

LFQ intensity T0-1 LFQ intensity T0-2 LFQ intensity T0-3 LFQ intensity T1-1 LFQ intensity T1-2 LFQ  
 intensity T1-3 LFQ intensity T2-1 LFQ intensity T2-2 LFQ intensity T2-3 LFQ intensity T3-1 LFQ  
 intensity T3-2 LFQ intensity T3-3 C: Only identified by site C: Reverse C: Potential  
 contaminant N: Peptides N: Razor + unique peptides N: Unique peptides N: Sequence  
 coverage [%] N: Unique + razor sequence coverage [%] N: Unique sequence coverage [%] N:  
 Mol. weight [kDa] N: Q-value N: Score N: Intensity N: MS/MS count T: Protein IDs T:  
 Majority protein IDs T: id T: Fasta headers  
 22765000 44677000 18004000 0 9505100 0 0 0 0 0 0 0 6 6  
 6 20,9 20,9 20,9 44,836 0 11,551 176630000 12 A0A024BTL2;F1RG75  
 A0A024BTL2 0 tr|A0A024BTL2|A0A024BTL2\_PIG Phosphorylase kinase OS=Sus scrofa  
 OX=9823 GN=PHKG1 PE=1 SV=1  
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 9,1 9,1 9,1  
 10,41 0 10,805 774040000 13  
 A0A075B7J0;A0A075B7H9;A0A075B7I5;A0A075B7I9  
 A0A075B7J0;A0A075B7H9;A0A075B7I5;A0A075B7I9 1  
 tr|A0A075B7J0|A0A075B7J0\_PIG Ig-like domain-containing protein OS=Sus scrofa OX=9823  
 PE=4 SV=7;tr|A0A075B7H9|A0A075B7H9\_PIG Ig-like domain-containing protein OS=Sus scrofa  
 OX=9823 PE=4 SV=7;tr|A0A075B7I5|A0A075B7I5\_PIG Ig-like domain-containing protein OS=  
 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 23,2 23,2 23,2  
 10,318 0 7,2136 93531000 6 A0A075B7I6;A0A287BMT4 A0A075B7I6;A0A287BMT4  
 2 tr|A0A075B7I6|A0A075B7I6\_PIG Ig-like domain-containing protein OS=Sus scrofa  
 OX=9823 PE=4 SV=3;tr|A0A287BMT4|A0A287BMT4\_PIG Ig-like domain-containing protein OS=Sus  
 scrofa OX=9823 PE=4 SV=2  
 348070000 147170000 304230000 373470000 89819000 677050000 400040000  
 115850000 311560000 444460000 167740000 348770000 4 4  
 4 51,4 51,4 51,4 11,003 0 83,947 6225900000 195  
 P01846;A0A286ZNH4;A0A287ARX1;A0A0A0MY58;A0A287A1M4;A0A287BP38  
 P01846;A0A286ZNH4;A0A287ARX1;A0A0A0MY58;A0A287A1M4;A0A287BP38 3  
 sp|P01846|LAC\_PIG Ig lambda chain C region OS=Sus scrofa OX=9823 PE=1  
 SV=1;tr|A0A286ZNH4|A0A286ZNH4\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 PE=4  
 SV=1;tr|A0A287ARX1|A0A287ARX1\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 PE=4  
 SV=1;tr|A0A0A0MY  
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 5 5 5  
 28,847 0 3,5148 66607000 7 A0A286ZUP1;A0A0D5BWD2  
 A0A286ZUP1;A0A0D5BWD2 4 tr|A0A286ZUP1|A0A286ZUP1\_PIG Complement  
 component 1 Q subcomponent-binding protein, mitochondrial OS=Sus scrofa OX=9823 GN=C1QBP  
 PE=3 SV=1;tr|A0A0D5BWD2|A0A0D5BWD2\_PIG Complement component 1 Q subcomponent-  
 binding protein, mitochondrial OS=Sus scrofa OX=98  
 11751000 14220000 25185000 0 5898400 15799000 0 0 7735500 6870800 7324700  
 3 3 3 9,7 9,7 9,7 33,986 0 6,0309 244970000 11 A0A0H5ANC0  
 A0A0H5ANC0 5 tr|A0A0H5ANC0|A0A0H5ANC0\_PIG Mimecan OS=Sus scrofa  
 OX=9823 GN=OGN PE=1 SV=1

0 0 0 7669400 0 5038200 0 0 6020800 6271500 0 0 6 6  
 6 1,7 1,7 1,7 448,22 0 8,8843 106630000 10  
 A0A5G2QCX2;A0A286ZHV7;F1SU03;A0A5G2RG98;A0A287ATP0;A0A287AF47;A0A5G2QET  
 5 A0A5G2QCX2;A0A286ZHV7;F1SU03;A0A5G2RG98;A0A287ATP0;A0A287AF47 7  
 tr|A0A5G2QCX2|A0A5G2QCX2\_PIG Heparan sulfate proteoglycan 2 OS=Sus scrofa OX=9823  
 GN=HSPG2 PE=1 SV=1;tr|A0A286ZHV7|A0A286ZHV7\_PIG Heparan sulfate proteoglycan 2  
 OS=Sus scrofa OX=9823 GN=HSPG2 PE=1 SV=1;tr|F1SU03|F1SU03\_PIG Heparan sulfate  
 proteoglycan 2 OS  
 0 0 5935200 0 0 0 0 0 0 0 0 8869400 2 2 2 17  
 17 17 17,306 0 3,4912 34869000 6 F1SK49;A0A286ZI26 F1SK49;A0A286ZI26  
 8 tr|F1SK49|F1SK49\_PIG Plasminogen receptor with a C-terminal lysine OS=Sus scrofa  
 OX=9823 GN=PLGRKT PE=1 SV=1;tr|A0A286ZI26|A0A286ZI26\_PIG Plasminogen receptor with a  
 C-terminal lysine OS=Sus scrofa OX=9823 GN=PLGRKT PE=1 SV=1  
 19174000 8293000 11885000 0 0 0 0 0 0 0 0 5 5 5  
 14 14 14 35,958 0 11,91 115710000 13  
 A0A287AEJ3;A0A481CJY0;A0A287AW32;A0A286ZI52;A0A286ZYY2;M3UZ37;A0A287BLE9;F1  
 SA35;A0A5G2QCR1;F6Q9I4;A0A5G2QED5;A0A286ZPE3  
 A0A287AEJ3;A0A481CJY0;A0A287AW32;A0A286ZI52;A0A286ZYY2;M3UZ37 9  
 tr|A0A287AEJ3|A0A287AEJ3\_PIG Heterogeneous nuclear ribonucleoproteins A2/B1 OS=Sus  
 scrofa OX=9823 GN=HNRNPA2B1 PE=1 SV=2;tr|A0A481CJY0|A0A481CJY0\_PIG Heterogeneous  
 nuclear ribonucleoproteins A2/B1 OS=Sus scrofa OX=9823 GN=HNRNPA2B1 PE=1  
 SV=1;tr|A0A287AW32|  
 811530000 748630000 566860000 1422000000 631380000 503240000 1519900000  
 580060000 552160000 1129200000 665060000 339960000 18 18  
 16 48,3 48,3 44,8 43,328 0 195,6 60113000000 471  
 A0A286ZI55;A0A287BDV9;F1SHA2 A0A286ZI55;A0A287BDV9;F1SHA2 10  
 tr|A0A286ZI55|A0A286ZI55\_PIG Glycerol-3-phosphate dehydrogenase [NAD(+)] OS=Sus  
 scrofa OX=9823 GN=GPD1 PE=1 SV=2;tr|A0A287BDV9|A0A287BDV9\_PIG Glycerol-3-phosphate  
 dehydrogenase [NAD(+)] OS=Sus scrofa OX=9823 GN=GPD1 PE=1 SV=2;tr|F1SHA2|F1SHA2\_PIG  
 Glycerol-  
 12194000 14097000 14873000 27140000 10913000 17657000 20278000 5911400 17203000 23171000  
 9703100 22316000 7 7 7 9 9 9 79,944 0 14,885  
 551610000 44 A0A286ZI83;A0A286ZPA0;F1S1G8;A0A5G2RD43;A0A5G2RI05;F1S1G7  
 A0A286ZI83;A0A286ZPA0;F1S1G8;A0A5G2RD43;A0A5G2RI05 11  
 tr|A0A286ZI83|A0A286ZI83\_PIG Amine oxidase OS=Sus scrofa OX=9823 GN=LOC100520329  
 PE=1 SV=2;tr|A0A286ZPA0|A0A286ZPA0\_PIG Amine oxidase OS=Sus scrofa OX=9823  
 GN=LOC100520329 PE=1 SV=1;tr|F1S1G8|F1S1G8\_PIG Amine oxidase OS=Sus scrofa OX=9823  
 GN=LOC110256000 P  
 112870000 13325000 209990000 129340000 91246000 172180000 83296000 49450000  
 60396000 58685000 81146000 213240000 10 10 10 39 39 39 21,646  
 0 33,252 5663700000 139 B3VCE8;A0A287BG25;A0A286ZI93;A0A287AMI5  
 B3VCE8;A0A287BG25;A0A286ZI93;A0A287AMI5 12 tr|B3VCE8|B3VCE8\_PIG Troponin I  
 OS=Sus scrofa OX=9823 GN=TNNI1 PE=1 SV=1;tr|A0A287BG25|A0A287BG25\_PIG Troponin I,

slow skeletal type OS=Sus scrofa OX=9823 GN=TNNI1 PE=1 SV=1;tr|A0A286ZI93|A0A286ZI93\_PIG  
Troponin I1, slow skeletal type OS=Sus scrofa OX=982

40265000 15526000 20989000 22697000 45506000 11263000 40341000 63767000 29890000 42493000  
40539000 27649000 10 10 10 23,4 23,4 23,4 47,875 0 33,426  
1357500000 59 A0A286ZIE2 A0A286ZIE2 14 tr|A0A286ZIE2|A0A286ZIE2\_PIG

Uncharacterized protein OS=Sus scrofa OX=9823 PE=4 SV=1

192050000 270670000 725350000 166160000 657220000 747190000 135860000  
278490000 627500000 188790000 670960000 1206500000 14 14  
14 41,9 41,9 41,9 33,026 0 49,293 23562000000 247  
A0A286ZIE8;F1RZQ6;I3LDJ6;A0A5G2R3N5;F2Z565;A0A287B804;A0A287AXS7;A0A5G2RDZ2;  
A0A287AVQ0;A0A5G2QRU7;Q6QRN9;A0A5G2R3W2;F1RRA6  
A0A286ZIE8;F1RZQ6;I3LDJ6;A0A5G2R3N5;F2Z565 15 tr|A0A286ZIE8|A0A286ZIE8\_PIG

ADP/ATP translocase OS=Sus scrofa OX=9823 GN=SLC25A4 PE=1 SV=1;tr|F1RZQ6|F1RZQ6\_PIG  
ADP/ATP translocase OS=Sus scrofa OX=9823 GN=SLC25A4 PE=1 SV=2;tr|I3LDJ6|I3LDJ6\_PIG  
ADP/ATP translocase OS=Sus scrofa OX=9823 GN=SLC25A4 PE=1 S

30050000 29067000 20875000 42225000 0 30155000 30747000 37547000 26469000 34266000 19144000  
25782000 4 4 4 20,3 20,3 20,3 38,781 0 49,614 607670000 51  
A0A286ZIM7;A0A480ZBJ4;A0A5K1U2D0;A0A5G2QBC1;A0A287ACT9;A0A287BLL7  
A0A286ZIM7;A0A480ZBJ4;A0A5K1U2D0;A0A5G2QBC1;A0A287ACT9 16  
tr|A0A286ZIM7|A0A286ZIM7\_PIG Protein NDRG2 OS=Sus scrofa OX=9823 GN=NDRG2 PE=1  
SV=2;tr|A0A480ZBJ4|A0A480ZBJ4\_PIG Protein NDRG2 OS=Sus scrofa OX=9823 GN=NDRG2 PE=1  
SV=1;tr|A0A5K1U2D0|A0A5K1U2D0\_PIG Protein NDRG2 OS=Sus scrofa OX=9823 GN=NDRG2  
PE=1 SV=1;tr|A

77036000 53668000 36139000 56762000 47883000 40466000 74475000 27679000 35322000 64373000  
28157000 0 2 2 2 8,4 8,4 8,4 30,609 0 10,181 650860000  
16 A0A286ZIN0;A0A480M1B4;A0A287AAI4;F1RVC9  
A0A286ZIN0;A0A480M1B4;A0A287AAI4;F1RVC9 17 tr|A0A286ZIN0|A0A286ZIN0\_PIG

Heterogeneous nuclear ribonucleoprotein D OS=Sus scrofa OX=9823 GN=HNRNPD PE=1  
SV=2;tr|A0A480M1B4|A0A480M1B4\_PIG Heterogeneous nuclear ribonucleoprotein D OS=Sus  
scrofa OX=9823 GN=HNRNPD PE=1 SV=1;tr|A0A287AAI4|A0A287AAI4\_PIG H

0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 5,4 5,4 5,4  
25,131 0,0021906 2,2966 24957000 2 P0C596;F1S2G2;A0A286ZIS3  
P0C596;F1S2G2;A0A286ZIS3 18 sp|P0C596|DUS29\_PIG Dual specificity phosphatase 29  
OS=Sus scrofa OX=9823 GN=DUSP29 PE=3 SV=1;tr|F1S2G2|F1S2G2\_PIG Protein-serine/threonine  
phosphatase OS=Sus scrofa OX=9823 GN=DUSP29 PE=3 SV=2;tr|A0A286ZIS3|A0A286ZIS3\_PIG  
Protein-serine/threonine phosphat

0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 5,9 5,9 5,9  
22,898 0,0011521 2,7436 12242000 1  
A0A5G2R0F7;A0A5G2QKB6;A0A287BH49;A0A286ZIU2;A0A5G2Q7W2  
A0A5G2R0F7;A0A5G2QKB6;A0A287BH49;A0A286ZIU2;A0A5G2Q7W2 19  
tr|A0A5G2R0F7|A0A5G2R0F7\_PIG Chloride intracellular channel protein OS=Sus scrofa  
OX=9823 GN=CLIC5 PE=1 SV=1;tr|A0A5G2QKB6|A0A5G2QKB6\_PIG Chloride intracellular

channel protein OS=Sus scrofa OX=9823 GN=CLIC5 PE=1 SV=1;tr|A0A287BH49|A0A287BH49\_PIG  
Chloride

65630000 0 0 0 0 71423000 0 0 49828000 0 2 2 2  
6 6 6 30,814 0,0086455 1,3944 565020000 3 A0A286ZJ42;F1SAL3

A0A286ZJ42;F1SAL3 20 tr|A0A286ZJ42|A0A286ZJ42\_PIG Sodium voltage-gated channel  
beta subunit 4 OS=Sus scrofa OX=9823 GN=SCN4B PE=1 SV=2;tr|F1SAL3|F1SAL3\_PIG Sodium  
voltage-gated channel beta subunit 4 OS=Sus scrofa OX=9823 GN=SCN4B PE=1 SV=2

0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 6,5 6,5 6,5  
43,152 0 4,2975 58393000 9

A0A286ZZV5;F1RRS8;A0A5G2QNM5;A0A5G2RNE3;A0A287AAQ4;A0A287B830;A0A286ZXV  
0;A0A286ZJ75;A0A5G2RN10

A0A286ZZV5;F1RRS8;A0A5G2QNM5;A0A5G2RNE3;A0A287AAQ4;A0A287B830;A0A286ZXV  
0;A0A286ZJ75;A0A5G2RN10 21 tr|A0A286ZZV5|A0A286ZZV5\_PIG Microtubule-associated  
protein OS=Sus scrofa OX=9823 GN=MAPT PE=1 SV=2;tr|F1RRS8|F1RRS8\_PIG Microtubule-  
associated protein OS=Sus scrofa OX=9823 GN=MAPT PE=1  
SV=4;tr|A0A5G2QNM5|A0A5G2QNM5\_PIG Microtubule-associated protein OS=S

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 6,4 6,4 6,4  
20,124 0,0031847 2,0478 9382000 1

A0A5G2QF65;A0A287BA60;A0A286ZJ82;F1RHM8

A0A5G2QF65;A0A287BA60;A0A286ZJ82;F1RHM8 22 tr|A0A5G2QF65|A0A5G2QF65\_PIG  
RAN binding protein 1 OS=Sus scrofa OX=9823 GN=RANBP1 PE=1  
SV=1;tr|A0A287BA60|A0A287BA60\_PIG RAN binding protein 1 OS=Sus scrofa OX=9823  
GN=RANBP1 PE=1 SV=1;tr|A0A286ZJ82|A0A286ZJ82\_PIG RAN binding protein 1 OS=Sus scrofa  
OX=98

22562000 34696000 25160000 14786000 30884000 19118000 20014000 22463000 24025000 16288000

23871000 15216000 11 11 11 31,2 31,2 31,2 41,29 0 44,964

1141900000 76

A0A286ZJC3;F6Q8Z7;A0A287A8V1;F6Q625;A6M928;A0A5G2QX96;A0A5G2QMP7;A0A5G2R7  
R3;A0A286ZUD0;A0A5G2QFK1;A6M931;A0A5S8KY97

A0A286ZJC3;F6Q8Z7;A0A287A8V1;F6Q625;A6M928 23

tr|A0A286ZJC3|A0A286ZJC3\_PIG RNA helicase OS=Sus scrofa OX=9823 GN=EIF4A2 PE=1  
SV=1;tr|F6Q8Z7|F6Q8Z7\_PIG RNA helicase OS=Sus scrofa OX=9823 GN=EIF4A2 PE=1  
SV=2;tr|A0A287A8V1|A0A287A8V1\_PIG RNA helicase OS=Sus scrofa OX=9823 GN=EIF4A1 PE=1  
SV=1;tr|F6Q625|F6

19684000 14923000 9185900 29804000 8034300 13488000 24790000 12806000 21186000 30093000

12560000 9761600 16 16 12 26,7 26,7 20,3 67,758 0 30,977

1182700000 94

A0A287BHA1;F1SV14;A0A287AQS9;A0A287AB04;A0A286ZJ82;A0A286ZYV1;A0A287AN48;  
A0A286ZJJ2;A0A5G2QE36;P26044;F1SB42

A0A287BHA1;F1SV14;A0A287AQS9;A0A287AB04;A0A286ZJ82;A0A286ZYV1;A0A287AN48;  
A0A286ZJJ2;A0A5G2QE36;P26044 24 tr|A0A287BHA1|A0A287BHA1\_PIG Radixin OS=Sus  
scrofa OX=9823 GN=RDY PE=1 SV=2;tr|F1SV14|F1SV14\_PIG Radixin OS=Sus scrofa OX=9823

GN=RDY PE=1 SV=4;tr|A0A287AQS9|A0A287AQS9\_PIG Radixin OS=Sus scrofa OX=9823 GN=RDY  
PE=1 SV=2;tr|A0A287AB04|A0A287AB04\_PIG Radixin

0 0 0 0 13563000 12857000 0 0 7268800 0 0 16188000 4 4  
4 14,5 14,5 14,5 34,425 0 5,8486 123340000 8

A0A5G2QW89;A0A286ZJJ4;A0A287ANK3;A0A5G2QQW0;F1SU78

A0A5G2QW89;A0A286ZJJ4;A0A287ANK3;A0A5G2QQW0;F1SU78 25

tr|A0A5G2QW89|A0A5G2QW89\_PIG Calcium uniporter protein OS=Sus scrofa OX=9823  
GN=MCU PE=1 SV=1;tr|A0A286ZJJ4|A0A286ZJJ4\_PIG Calcium uniporter protein OS=Sus scrofa  
OX=9823 GN=MCU PE=1 SV=1;tr|A0A287ANK3|A0A287ANK3\_PIG Calcium uniporter protein  
OS=Sus scrofa

280130000 62877000 208800000 243270000 82223000 502780000 289210000 64940000  
196280000 238510000 92472000 255610000 4 4 4 11,5 11,5 11,5  
38,847 0 11,333 5963500000 76

A0A287ATT2;A0A287B9G9;A0A287A2V7;A0A286ZJL9;A0A287B9X9

A0A287ATT2;A0A287B9G9;A0A287A2V7;A0A286ZJL9;A0A287B9X9 26

tr|A0A287ATT2|A0A287ATT2\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 PE=4  
SV=2;tr|A0A287B9G9|A0A287B9G9\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 PE=4  
SV=2;tr|A0A287A2V7|A0A287A2V7\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 PE=4  
SV=2;t

0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 27,3 27,3 27,3  
10,069 0,0031513 1,9721 16760000 3 A0A286ZJN9 A0A286ZJN9 27

tr|A0A286ZJN9|A0A286ZJN9\_PIG Acyl-CoA binding domain containing 7 OS=Sus scrofa  
OX=9823 GN=ACBD7 PE=4 SV=1

133560000 73414000 34754000 25906000 35329000 0 108090000 50979000 37318000  
105840000 36105000 34951000 7 7 7 32,5 32,5 32,5 16,832 0  
16,552 1368700000 28

A0A286ZUV8;A0A286ZJP7;A0A286ZK63;A0A287B356;A0A286ZPS5;A0A287B4A3

A0A286ZUV8;A0A286ZJP7;A0A286ZK63;A0A287B356;A0A286ZPS5;A0A287B4A3 28

tr|A0A286ZUV8|A0A286ZUV8\_PIG Eukaryotic translation initiation factor 5A OS=Sus scrofa  
OX=9823 GN=EIF5A PE=1 SV=1;tr|A0A286ZJP7|A0A286ZJP7\_PIG eIF-5a domain-containing  
protein OS=Sus scrofa OX=9823 GN=EIF5A PE=1 SV=1;tr|A0A286ZK63|A0A286ZK63\_PIG eIF-5a  
dom

0 0 0 0 0 0 0 0 0 0 0 0 3 1 1 13,6 7,9 7,9  
20,554 0,0011274 2,5245 67199000 2 A0A286ZJQ9;Q6RVA9 A0A286ZJQ9;Q6RVA9

29 tr|A0A286ZJQ9|A0A286ZJQ9\_PIG Caveolin OS=Sus scrofa OX=9823 GN=CAV1 PE=3  
SV=1;sp|Q6RVA9|CAV1\_PIG Caveolin-1 OS=Sus scrofa OX=9823 GN=CAV1 PE=2 SV=1

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 5,5 5,5 5,5  
20,546 0,0030364 1,7521 5750300 1 A0A286ZJU5 A0A286ZJU5 30

tr|A0A286ZJU5|A0A286ZJU5\_PIG Malignant T-cell-amplified sequence OS=Sus scrofa  
OX=9823 GN=LOC100738684 PE=1 SV=1

385010000 303560000 219520000 383010000 311130000 267970000 387010000  
302910000 360030000 437660000 355740000 193710000 42 42  
42 52,7 52,7 52,7 96,758 0 323,31 55627000000 1031

A0A5G2QZI7;A0A286ZK06;F1RVL5;A0A287BSB6;A0A287A887  
 A0A5G2QZI7;A0A286ZK06;F1RVL5;A0A287BSB6;A0A287A887 31  
 tr|A0A5G2QZI7|A0A5G2QZI7\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
 GN=MYOM2 PE=1 SV=1;tr|A0A286ZK06|A0A286ZK06\_PIG Uncharacterized protein OS=Sus scrofa  
 OX=9823 GN=MYOM2 PE=1 SV=1;tr|F1RVL5|F1RVL5\_PIG Uncharacterized protein OS=Sus scrofa  
 OX=9823 G  
 4202700 0 4230100 4871800 0 4194600 0 0 3943400 8452400 0 4442100  
 4 4 4 14,3 14,3 14,3 32,631 0 10,354 77749000 9  
 F1RXD4;A0A287AMF3;A0A286ZK35;A0A5G2QK40  
 F1RXD4;A0A287AMF3;A0A286ZK35;A0A5G2QK4032 tr|F1RXD4|F1RXD4\_PIG Regulator of  
 microtubule dynamics 1 OS=Sus scrofa OX=9823 GN=RMDN1 PE=1  
 SV=2;tr|A0A287AMF3|A0A287AMF3\_PIG Regulator of microtubule dynamics 1 OS=Sus scrofa  
 OX=9823 GN=RMDN1 PE=1 SV=1;tr|A0A286ZK35|A0A286ZK35\_PIG Regulator of microtubul  
 0 0 0 0 0 0 0 0 0 0 0 0 5 5 5 9,2 9,2 9,2  
 69,79 0 12,508 111470000 5  
 A0A287B895;A0A287BEB5;A0A286ZK64;A0A5G2R212;F1S8Q4;A0A287AZ56  
 A0A287B895;A0A287BEB5;A0A286ZK64;A0A5G2R212;F1S8Q4;A0A287AZ56 33  
 tr|A0A287B895|A0A287B895\_PIG Atypical kinase COQ8A, mitochondrial OS=Sus scrofa  
 OX=9823 GN=COQ8A PE=1 SV=2;tr|A0A287BEB5|A0A287BEB5\_PIG Atypical kinase COQ8A,  
 mitochondrial OS=Sus scrofa OX=9823 GN=COQ8A PE=1 SV=2;tr|A0A286ZK64|A0A286ZK64\_PIG  
 Atypical kina  
 13268000 23509000 18313000 0 19228000 5753800 9226900 15326000 13568000 0 14639000  
 10609000 13 5 4 22 9 7,1 76,327 0 32,339 267010000 17  
 A0A287BK26;A0A287A9T4;F1RQU2;A0A286ZR68;A0A287BDM6;A0A286ZKC5  
 A0A287BK26;A0A287A9T4;F1RQU2;A0A286ZR68;A0A287BDM6;A0A286ZKC5 34  
 tr|A0A287BK26|A0A287BK26\_PIG HATPase\_c domain-containing protein OS=Sus scrofa  
 OX=9823 GN=HSP90AB1 PE=1 SV=1;tr|A0A287A9T4|A0A287A9T4\_PIG HATPase\_c domain-  
 containing protein OS=Sus scrofa OX=9823 GN=HSP90AB1 PE=1 SV=1;tr|F1RQU2|F1RQU2\_PIG  
 HATPase\_c domain-  
 0 0 0 0 0 0 0 0 0 0 0 0 2 1 1 3,6 2,2 2,2  
 64,299 0,0011429 2,6758 48887000 13  
 A0A5G2QU76;A0A286ZKD4;F1SF87;A0A5G2QVV8;A0A5G2QUC7;A0A287B665;A0A287ALB9  
 ;A0A5G2QD37  
 A0A5G2QU76;A0A286ZKD4;F1SF87;A0A5G2QVV8;A0A5G2QUC7;A0A287B665;A0A287ALB9  
 ;A0A5G2QD37 35 tr|A0A5G2QU76|A0A5G2QU76\_PIG Solute carrier family 25 member 13  
 OS=Sus scrofa OX=9823 GN=SLC25A13 PE=1 SV=1;tr|A0A286ZKD4|A0A286ZKD4\_PIG Solute  
 carrier family 25 member 13 OS=Sus scrofa OX=9823 GN=SLC25A13 PE=1  
 SV=2;tr|F1SF87|F1SF87\_PIG Solute carrier fami  
 2743900 14274000 5361100 0 3883800 3397500 0 0 8455200 0 4122100 0  
 4 4 4 17,1 17,1 17,1 32,956 0 12,824 100160000 17 F1SS86;A0A286ZKE7  
 F1SS86;A0A286ZKE7 36 tr|F1SS86|F1SS86\_PIG Dehydrogenase/reductase 7C OS=Sus  
 scrofa OX=9823 GN=DHRS7C PE=1 SV=3;tr|A0A286ZKE7|A0A286ZKE7\_PIG  
 Dehydrogenase/reductase 7C OS=Sus scrofa OX=9823 GN=DHRS7C PE=1 SV=1

0 0 0 6741800 0 0 13325000 0 0 11734000 0 2 2 2  
 12,9 12,9 12,9 22,283 0 9,9626 50473000 6 A0A286ZKG9 A0A286ZKG9 37  
 tr|A0A286ZKG9|A0A286ZKG9\_PIG Peptidyl-prolyl cis-trans isomerase OS=Sus scrofa  
 OX=9823 GN=PPIB PE=1 SV=1  
 197960000 1118400000 317040000 198890000 661950000 288110000 157020000  
 882700000 723010000 141070000 683610000 191980000 28 28  
 28 42,8 42,8 42,8 85,314 0 323,31 40862000000 809  
 A0A286ZKJ2;A0A286ZIJ9;A0A287B8N1;A0A287BCP5;A0A286ZQ47;A0A286ZU66;I3LCA1;Q2  
 HYU2;A0A287B7N8;I3LFQ5;A0A287AGA4;A0A5G2QVT8;A0A286ZZL7;A0A5G2RD49;A0A287AB  
 45;I3LK68;F1RX49  
 A0A286ZKJ2;A0A286ZIJ9;A0A287B8N1;A0A287BCP5;A0A286ZQ47;A0A286ZU66;I3LCA1;Q2  
 HYU2;A0A287B7N8 39 tr|A0A286ZKJ2|A0A286ZKJ2\_PIG ATP-dependent 6-  
 phosphofructokinase OS=Sus scrofa OX=9823 GN=PFKM PE=1  
 SV=1;tr|A0A286ZIJ9|A0A286ZIJ9\_PIG ATP-dependent 6-phosphofructokinase OS=Sus scrofa  
 OX=9823 GN=PFKM PE=1 SV=1;tr|A0A287B8N1|A0A287B8N1\_PIG ATP-dependent 6-p  
 0 0 9620900 6798100 8348900 6951800 5584300 0 0 6356800 5488200 8499900  
 4 4 4 9 9 9 59,475 0 12,593 127590000 16  
 A0A287BQR7;I3LJE2;A0A287BD54;A0A286ZKK0;F1RJT3;A0A5K1VI86;A0A287A9G1;A0A287  
 BBD8;I3LEA3 A0A287BQR7;I3LJE2;A0A287BD54;A0A286ZKK0;F1RJT3 40  
 tr|A0A287BQR7|A0A287BQR7\_PIG Dihydropyrimidinase-related protein 2 OS=Sus scrofa  
 OX=9823 GN=DPYSL2 PE=1 SV=2;tr|I3LJE2|I3LJE2\_PIG Dihydropyrimidinase-related protein 2  
 OS=Sus scrofa OX=9823 GN=DPYSL2 PE=1 SV=2;tr|A0A287BD54|A0A287BD54\_PIG  
 Dihydropyrimidina  
 0 0 0 0 0 0 0 0 0 0 0 0 5 2 2 12,6 4,7 4,7  
 54,686 0 4,1425 9038200 2  
 F6QB46;A0A5G2QSW9;A0A287BCC5;F6QB57;A0A286ZVC8;A0A287B7M7;A0A286ZKT1;A0A  
 287BS43;A0A5K1UJ76;A0A5G2RLI5;A0A287AGQ9;A0A287BEM2;A0A286ZL03;A0A5G2QQK7;F1S  
 SH3;A0A5G2R2W2;A0A286ZTV0;A0A5G2QK95;A0A5G2QVX7;A0A5G2QCQ9  
 F6QB46;A0A5G2QSW9;A0A287BCC5;F6QB57;A0A286ZVC8;A0A287B7M7;A0A286ZKT1;A0A  
 287BS43;A0A5K1UJ76;A0A5G2RLI5;A0A287AGQ9;A0A287BEM2;A0A286ZL03;A0A5G2QQK7;F1S  
 SH3;A0A5G2R2W2;A0A286ZTV0;A0A5G2QK95;A0A5G2QVX7;A0A5G2QCQ9 41  
 tr|F6QB46|F6QB46\_PIG Calcium/calmodulin-dependent protein kinase OS=Sus scrofa  
 OX=9823 GN=CAMK2G PE=1 SV=2;tr|A0A5G2QSW9|A0A5G2QSW9\_PIG Calcium/calmodulin-  
 dependent protein kinase OS=Sus scrofa OX=9823 GN=CAMK2G PE=1  
 SV=1;tr|A0A287BCC5|A0A287BCC5\_PIG Calci  
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0,4 0,4 0,4  
 249,32 0,005005 1,6542 483490000 14 I3LPY4;A0A286ZKT7;A0A286ZSF3  
 I3LPY4;A0A286ZKT7;A0A286ZSF3 42 tr|I3LPY4|I3LPY4\_PIG Uncharacterized protein  
 OS=Sus scrofa OX=9823 GN=BRWD1 PE=4 SV=2;tr|A0A286ZKT7|A0A286ZKT7\_PIG  
 Uncharacterized protein OS=Sus scrofa OX=9823 GN=BRWD1 PE=4  
 SV=1;tr|A0A286ZSF3|A0A286ZSF3\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 G  
 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 8,1 8,1 8,1  
 41,152 0 4,2281 14452000 5

A0A287BNN6;A0A5G2QZ15;A0A5G2QRX4;F1SA44;A0A286ZKW0;A0A287BE36;A0A287B952;  
A0A287AFJ9;A0A5G2RHB2

A0A287BNN6;A0A5G2QZ15;A0A5G2QRX4;F1SA44;A0A286ZKW0;A0A287BE36;A0A287B952;  
A0A287AFJ9;A0A5G2RHB2 43 tr|A0A287BNN6|A0A287BNN6\_PIG Molybdopterin  
molybdenumtransferase OS=Sus scrofa OX=9823 GN=GPHN PE=1  
SV=2;tr|A0A5G2QZ15|A0A5G2QZ15\_PIG Molybdopterin molybdenumtransferase OS=Sus scrofa  
OX=9823 GN=GPHN PE=1 SV=1;tr|A0A5G2QRX4|A0A5G2QRX4\_PIG Molybdopterin mol  
13847000 10243000 5265300 14066000 9603400 5556700 16228000 7350300 3730000 15604000  
7597200 0 13 13 13 18,5 18,5 18,5 81,115 0 25,747 464050000  
49 A0A286ZKW5;A0A286ZSD6;A0A287ANK5;A0A287ASK5

A0A286ZKW5;A0A286ZSD6;A0A287ANK5 44 tr|A0A286ZKW5|A0A286ZKW5\_PIG  
Glycerol-3-phosphate dehydrogenase OS=Sus scrofa OX=9823 GN=GPD2 PE=1  
SV=1;tr|A0A286ZSD6|A0A286ZSD6\_PIG Glycerol-3-phosphate dehydrogenase OS=Sus scrofa  
OX=9823 GN=GPD2 PE=1 SV=2;tr|A0A287ANK5|A0A287ANK5\_PIG Glycerol-3-phosphat  
0 0 0 0 0 17292000 0 0 0 3945000 0 0 5 5 5 21,9  
21,9 21,9 23,769 0 12,187 71700000 5

A0A286ZKY6;P81558;A0A287AYH7;A0A5G2QCT5  
A0A286ZKY6;P81558;A0A287AYH7;A0A5G2QCT5 45 tr|A0A286ZKY6|A0A286ZKY6\_PIG  
Myelin basic protein OS=Sus scrofa OX=9823 GN=MBP PE=1 SV=2;sp|P81558|MBP\_PIG Myelin  
basic protein OS=Sus scrofa OX=9823 GN=MBP PE=1 SV=1;tr|A0A287AYH7|A0A287AYH7\_PIG  
Myelin basic protein OS=Sus scrofa OX=9823 GN=MBP PE=1 SV=1;  
0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 14,9 14,9 14,9  
20,92 0 6,4161 39808000 4 A0A286ZL26;F2Z546 A0A286ZL26;F2Z546 46

tr|A0A286ZL26|A0A286ZL26\_PIG Ribosomal protein L19 OS=Sus scrofa OX=9823 GN=RPL19  
PE=1 SV=1;tr|F2Z546|F2Z546\_PIG 60S ribosomal protein L19 OS=Sus scrofa OX=9823 GN=RPL19  
PE=1 SV=4  
0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 10 10 10  
33,088 0 4,6551 9729900 4

A0A5G2RFU4;A0A5G2QIH9;A0A287A2F6;A0A287AJ82;F1RF45;A0A286ZL34;A0A5G2R052;A  
0A286ZQD2

A0A5G2RFU4;A0A5G2QIH9;A0A287A2F6;A0A287AJ82;F1RF45;A0A286ZL34;A0A5G2R052;A  
0A286ZQD2 47 tr|A0A5G2RFU4|A0A5G2RFU4\_PIG Homer scaffold protein 1 OS=Sus scrofa  
OX=9823 GN=HOMER1 PE=1 SV=1;tr|A0A5G2QIH9|A0A5G2QIH9\_PIG Homer scaffold protein 1  
OS=Sus scrofa OX=9823 GN=HOMER1 PE=1 SV=1;tr|A0A287A2F6|A0A287A2F6\_PIG Homer  
scaffold protein 1 OS=Sus scr  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 8,3 8,3 8,3  
17,695 0 4,6855 0 1 A0A286ZL51 A0A286ZL51 48

tr|A0A286ZL51|A0A286ZL51\_PIG Ribosomal protein L23a OS=Sus scrofa OX=9823  
GN=RPL23A PE=1 SV=2  
11815000 7693300 6525800 13358000 8073000 6121300 13619000 5978800 4709900 13405000  
8810200 7009700 7 7 7 14,9 14,9 14,9 55,456 0 16,17  
556990000 42

A0A287ADK3;A0A286ZL79;A0A287A399;A0A287AWM0;A0A5G2RFA2;A0A5G2QZJ5;F1RKM



1;A0A5G2R3L2;A0A5G2Q7X5;A0A5G2RFH5

A0A287ADK3;A0A286ZL79;A0A287A399;A0A287AWM0;A0A5G2RFA2;A0A5G2QZJ5;F1RKM  
1 49 tr|A0A287ADK3|A0A287ADK3\_PIG Aldehyde dehydrogenase (NAD(+)) OS=Sus scrofa  
OX=9823 GN=ALDH7A1 PE=1 SV=1;tr|A0A286ZL79|A0A286ZL79\_PIG Aldehyde dehydrogenase  
(NAD(+)) OS=Sus scrofa OX=9823 GN=ALDH7A1 PE=1 SV=2;tr|A0A287A399|A0A287A399\_PIG  
Aldehyde dehydrogen

4952800 7157500 6376300 0 4005300 0 0 0 0 0 0 2990000 4  
4 4 4,3 4,3 4,3 93,822 0 3,9232 75405000 9

I3LEW5;A0A286ZLH1;A0A287AN02;I3LQT3 I3LEW5;A0A286ZLH1;A0A287AN02;I3LQT3  
50 tr|I3LEW5|I3LEW5\_PIG 26S proteasome non-ATPase regulatory subunit 2 OS=Sus scrofa  
OX=9823 GN=PSMD2 PE=1 SV=2;tr|A0A286ZLH1|A0A286ZLH1\_PIG 26S proteasome non-ATPase  
regulatory subunit 2 OS=Sus scrofa OX=9823 GN=PSMD2 PE=1  
SV=1;tr|A0A287AN02|A0A287AN02\_PIG 2

8045200 0 4329000 9189600 5861200 8399700 6520800 0 6337000 9434000 0 7587900  
5 5 5 12,6 12,6 12,6 67,07 0 10,939 149130000 21

A0A5G2QYN3;A0A5G2R260;A0A286ZLL9 A0A5G2QYN3;A0A5G2R260;A0A286ZLL9  
51 tr|A0A5G2QYN3|A0A5G2QYN3\_PIG Synaptopodin OS=Sus scrofa OX=9823 GN=SYNPO  
PE=4 SV=1;tr|A0A5G2R260|A0A5G2R260\_PIG Synaptopodin OS=Sus scrofa OX=9823 GN=SYNPO  
PE=4 SV=1;tr|A0A286ZLL9|A0A286ZLL9\_PIG Synaptopodin OS=Sus scrofa OX=9823 GN=SYNPO  
PE=4 SV=2

0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 3,9 3,9 3,9  
43,226 0,0058997 1,5167 369680000 2

A0A5G2QZ43;I3LMJ8;A0A286ZLR1;I3LMM7;I3LC00;A0A5G2QFJ8;A0A480Q3H5;F1S432;A0A  
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A0A5G2QZ43;I3LMJ8;A0A286ZLR1;I3LMM7;I3LC00;A0A5G2QFJ8;A0A480Q3H5;F1S432;A0A  
5G2RDC6 52 tr|A0A5G2QZ43|A0A5G2QZ43\_PIG RNA helicase OS=Sus scrofa OX=9823  
GN=DDX19B PE=1 SV=1;tr|I3LMJ8|I3LMJ8\_PIG RNA helicase OS=Sus scrofa OX=9823 GN=DDX19B  
PE=1 SV=3;tr|A0A286ZLR1|A0A286ZLR1\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
GN=DDX19B PE=1 SV=1;t

0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 1,3 1,3 1,3  
181,7 0 3,1097 18758000 3

A0A287BLM4;A0A287BL81;A0A286ZLV2;A0A286ZMC0;A0A287BPF4;A0A286ZPQ1;A0A5G2  
R8G7;A0A287B163;A0A286ZVG7;I3LUR7

A0A287BLM4;A0A287BL81;A0A286ZLV2;A0A286ZMC0;A0A287BPF4;A0A286ZPQ1;A0A5G2  
R8G7;A0A287B163;A0A286ZVG7;I3LUR7 53 tr|A0A287BLM4|A0A287BLM4\_PIG Collagen type  
VI alpha 3 chain OS=Sus scrofa OX=9823 GN=COL6A3 PE=1  
SV=1;tr|A0A287BL81|A0A287BL81\_PIG Collagen type VI alpha 3 chain OS=Sus scrofa OX=9823  
GN=COL6A3 PE=1 SV=1;tr|A0A286ZLV2|A0A286ZLV2\_PIG Collagen type VI alpha

0 3480700 0 0 0 0 5237000 0 0 0 0 0 0 2 2 2 13,9  
13,9 13,9 20,312 0 12,804 23828000 5

A0A286ZLX7;A0A287AIF3;A0A287A9S3;A0A287AG25;F1RX99;A0A481BLE6;A0A5G2QTW6  
A0A286ZLX7;A0A287AIF3;A0A287A9S3;A0A287AG25;F1RX99;A0A481BLE6;A0A5G2QTW6  
54 tr|A0A286ZLX7|A0A286ZLX7\_PIG Tumor protein D52 OS=Sus scrofa OX=9823

GN=TPD52 PE=1 SV=2;tr|A0A287AIF3|A0A287AIF3\_PIG Tumor protein D52 OS=Sus scrofa  
OX=9823 GN=TPD52 PE=1 SV=1;tr|A0A287A9S3|A0A287A9S3\_PIG Tumor protein D52 OS=Sus  
scrofa OX=9823 GN=TPD52 PE

95499000 55257000 36500000 36238000 0 0 53647000 22710000 25058000 46113000 21864000  
20699000 4 4 4 19 19 19 22,104 0 30,594 976120000 28  
I3LEV7;A0A286ZM34;A0A5G2QTP0 I3LEV7;A0A286ZM34 55 tr|I3LEV7|I3LEV7\_PIG  
Uncharacterized protein OS=Sus scrofa OX=9823 GN=SH3BGR PE=1  
SV=1;tr|A0A286ZM34|A0A286ZM34\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
GN=SH3BGR PE=1 SV=1

14663000 16176000 7181000 5869200 6229500 6234800 5922800 6348900 6520700 13025000  
4520100 9712200 7 7 7 19,7 19,7 19,7 42,89 0 32,271  
290160000 17 A0A287A702;A0A286ZM82;F1SMN1;A0A5G2QG35  
A0A287A702;A0A286ZM82;F1SMN1 56 tr|A0A287A702|A0A287A702\_PIG Calumenin  
OS=Sus scrofa OX=9823 GN=CALU PE=1 SV=1;tr|A0A286ZM82|A0A286ZM82\_PIG Calumenin  
OS=Sus scrofa OX=9823 GN=CALU PE=1 SV=2;tr|F1SMN1|F1SMN1\_PIG Calumenin OS=Sus scrofa  
OX=9823 GN=CALU PE=1 SV=4

8156800 0 9551400 9788400 0 10559000 9519200 0 6737500 12352000 0 7526200  
8 6 5 20,9 15,1 11,5 43,902 0 8,071 245250000 18  
A0A287AGW0;A0A287B2Z5;A0A286ZTU7;A0A287AJE3;A0A286ZM84;A0A286ZYZ5;A0A286  
ZVN0 A0A287AGW0;A0A287B2Z5;A0A286ZTU7;A0A287AJE3;A0A286ZM84;A0A286ZYZ557  
tr|A0A287AGW0|A0A287AGW0\_PIG SERPIN domain-containing protein OS=Sus scrofa  
OX=9823 GN=LOC106504547 PE=1 SV=1;tr|A0A287B2Z5|A0A287B2Z5\_PIG SERPIN domain-  
containing protein OS=Sus scrofa OX=9823 GN=LOC106504547 PE=1  
SV=1;tr|A0A286ZTU7|A0A286ZTU7\_PIG SERPIN

0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 2,1 2,1 2,1  
63,972 0,0030738 1,8191 23537000 1 A0A286ZMD2 A0A286ZMD2 58  
tr|A0A286ZMD2|A0A286ZMD2\_PIG Atlantin GTPase 2 OS=Sus scrofa OX=9823 GN=ATL2  
PE=1 SV=1

18985000 14045000 15562000 0 4931500 0 6580800 5815000 4791400 6040200 5073100  
5029600 4 4 4 10,4 10,4 10,4 65,418 0 22,235 209920000 17  
A0A287B2Z1;A0A286ZMD6;A0A287B082;A0A287A190;A0A287ANW2;F1RWK8;A0A5G2Q732  
;A0A286ZP52;A0A5G2R3P3;A0A287AL78;A0A287BIE3;A0A5G2R637;A0A287BSZ0;A0A287A6B3;A  
0A287AJJ7;F1RWA1;A0A287B2G2;A0A287AHB4;A0A287AHZ5;A0A5G2Q8J4;A0A287ANL1  
A0A287B2Z1;A0A286ZMD6;A0A287B082;A0A287A190;A0A287ANW2;F1RWK859  
tr|A0A287B2Z1|A0A287B2Z1\_PIG Calcium channel voltage-dependent subunit beta 1 OS=Sus  
scrofa OX=9823 GN=CACNB1 PE=3 SV=1;tr|A0A286ZMD6|A0A286ZMD6\_PIG Calcium channel  
voltage-dependent subunit beta 1 OS=Sus scrofa OX=9823 GN=CACNB1 PE=3  
SV=2;tr|A0A287B082|A0

0 0 0 0 0 0 0 0 0 0 0 0 0 2 1 1 4,4 2,3 2,3  
60,496 0,003148 1,9666 21306000 1  
A0A286ZMH6;A0A5G2R092;A0A5G2RA07;A0A287BRK6  
A0A286ZMH6;A0A5G2R092;A0A5G2RA07;A0A287BRK6 60  
tr|A0A286ZMH6|A0A286ZMH6\_PIG Uncharacterized protein OS=Sus scrofa OX=9823

GN=LOC110259328 PE=1 SV=1;tr|A0A5G2R092|A0A5G2R092\_PIG Uncharacterized protein OS=Sus  
scrofa OX=9823 GN=LOC110259328 PE=3 SV=1;tr|A0A5G2RA07|A0A5G2RA07\_PIG  
Uncharacterized protein O

0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	6,6	6,6	6,6
35,699	0,0011655	2,8366	11377000	4	A0A286ZMQ7	A0A286ZMQ7	61											

tr|A0A286ZMQ7|A0A286ZMQ7\_PIG RAB12, member RAS oncogene family OS=Sus scrofa  
OX=9823 GN=RAB12 PE=4 SV=2

0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	4,2	4,2	4,2
26,708	0	4,7149	125770000	6	A0A5G2R857;A0A286ZMT0;F1SB33													

A0A5G2R857;A0A286ZMT0;F1SB33 62 tr|A0A5G2R857|A0A5G2R857\_PIG MARVEL  
domain-containing protein OS=Sus scrofa OX=9823 GN=SYPL1 PE=1  
SV=1;tr|A0A286ZMT0|A0A286ZMT0\_PIG MARVEL domain-containing protein OS=Sus scrofa  
OX=9823 GN=SYPL1 PE=1 SV=1;tr|F1SB33|F1SB33\_PIG MARVEL domain-containing prot

0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	7,8	4,4	4,4
33,8	0,0031185	1,9072	12401000	1														

A0A5G2QVL8;F1SFQ4;A0A5G2R731;A0A287BBM1;A0A5G2Q7Y5;A0A287BHL0;A0A286ZMU  
5;A0A480Q0J7;I3LRF8;A0A5G2QGE1;A0A5G2R625;A0A5G2QU32;A0A5G2REH8;A0A5G2QDP8  
A0A5G2QVL8;F1SFQ4;A0A5G2R731;A0A287BBM1;A0A5G2Q7Y5;A0A287BHL0;A0A286ZMU  
5;A0A480Q0J7;I3LRF8;A0A5G2QGE1;A0A5G2R625;A0A5G2QU32;A0A5G2REH8;A0A5G2QDP8  
63 tr|A0A5G2QVL8|A0A5G2QVL8\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
GN=PCBP2 PE=1 SV=1;tr|F1SFQ4|F1SFQ4\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
GN=PCBP2 PE=1 SV=3;tr|A0A5G2R731|A0A5G2R731\_PIG Uncharacterized protein OS=Sus scrofa  
OX=9823 G

0	0	6171200	0	0	0	0	0	0	0	0	0	0	5493800	4	4	4	6,5
6,5	6,5	76,589	0	5,1206	41700000	7	A0A286ZMU8;A0A5G2R2M6;I3LFR2										

A0A286ZMU8;A0A5G2R2M6;I3LFR2 64 tr|A0A286ZMU8|A0A286ZMU8\_PIG Cullin 5  
OS=Sus scrofa OX=9823 GN=CUL5 PE=1 SV=2;tr|A0A5G2R2M6|A0A5G2R2M6\_PIG Cullin 5  
OS=Sus scrofa OX=9823 GN=CUL5 PE=1 SV=1;tr|I3LFR2|I3LFR2\_PIG Cullin-5 OS=Sus scrofa  
OX=9823 GN=CUL5 PE=1 SV=1

1200600000	3857200000	2098600000	508210000	3116600000	2025500000	503130000											
3244000000	2813600000	463960000	2968100000	1225200000		52	52										
47	53,1	53,1	47,9	96,874	0	323,31	293330000000	2221									

A0A286ZMZ9;A0A5G2QU59;F1RQQ8;A0A287B6I2;A0A5G2RE07;A0A287AL55;F1RQQ7;A0A  
5G2QWP3;A0A287AT94;A0A5G2QW02;A0A5G2QYQ7  
A0A286ZMZ9;A0A5G2QU59;F1RQQ8;A0A287B6I2;A0A5G2RE07 65  
tr|A0A286ZMZ9|A0A286ZMZ9\_PIG Alpha-1,4 glucan phosphorylase OS=Sus scrofa OX=9823  
GN=PYGM PE=1 SV=1;tr|A0A5G2QU59|A0A5G2QU59\_PIG Alpha-1,4 glucan phosphorylase  
OS=Sus scrofa OX=9823 GN=PYGM PE=1 SV=1;tr|F1RQQ8|F1RQQ8\_PIG Alpha-1,4 glucan  
phosphorylase OS=S

0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2,5	2,5	2,5
98,743	0,0030896	1,8588	8067200	2														

A0A5G2QEW1;A0A287BGD6;P79263;A0A286ZN24;F1SH92;A0A5G2R7M3;A0A5G2QN24;A0  
A286ZT99;A0A5G2QU18

A0A5G2QEW1;A0A287BGD6;P79263;A0A286ZN24;F1SH92;A0A5G2R7M3;A0A5G2QN24;A0A286ZT99;A0A5G2QU18 66 tr|A0A5G2QEW1|A0A5G2QEW1\_PIG Inter-alpha-trypsin inhibitor heavy chain H4 OS=Sus scrofa OX=9823 GN=ITIH4 PE=1 SV=1;tr|A0A287BGD6|A0A287BGD6\_PIG Inter-alpha-trypsin inhibitor heavy chain H4 OS=Sus scrofa OX=9823 GN=ITIH4 PE=1 SV=2;sp|P79263|ITIH4\_PIG Inter-  
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 3 3 3  
 33,62 0 2,9495 2636200000 2 A0A286ZN44;F1SJ42;A0A5G2QSG3;A0A5G2QC04  
 A0A286ZN44;F1SJ42;A0A5G2QSG3;A0A5G2QC04 67 tr|A0A286ZN44|A0A286ZN44\_PIG Olfactory receptor OS=Sus scrofa OX=9823 GN=LOC100523356 PE=3 SV=2;tr|F1SJ42|F1SJ42\_PIG Olfactory receptor OS=Sus scrofa OX=9823 PE=3 SV=3;tr|A0A5G2QSG3|A0A5G2QSG3\_PIG Olfactory receptor OS=Sus scrofa OX=9823 GN=LOC100523167 PE  
 15550000 15387000 10426000 19334000 14267000 17830000 23600000 11492000 14415000 14157000 0  
 10341000 3 3 3 16,6 16,6 16,6 21,62 0 4,7759 303400000 17  
 A0A5G2R3I7;A0A286ZN52 A0A5G2R3I7;A0A286ZN52 68  
 tr|A0A5G2R3I7|A0A5G2R3I7\_PIG Proteasome subunit beta OS=Sus scrofa OX=9823 GN=PSMB3 PE=1 SV=1;tr|A0A286ZN52|A0A286ZN52\_PIG Proteasome subunit beta OS=Sus scrofa OX=9823 GN=PSMB3 PE=1 SV=1  
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 4 4 4  
 37,681 0 4,7256 0 1  
 A0A5G2QA32;A0A286ZN59;A0A287B7C9;F1RHU6;A0A286ZP03;A0A287BTE0  
 A0A5G2QA32;A0A286ZN59;A0A287B7C9;F1RHU6;A0A286ZP03;A0A287BTE0 69  
 tr|A0A5G2QA32|A0A5G2QA32\_PIG Protein arginine methyltransferase 1 OS=Sus scrofa OX=9823 GN=PRMT1 PE=1 SV=1;tr|A0A286ZN59|A0A286ZN59\_PIG Protein arginine methyltransferase 1 OS=Sus scrofa OX=9823 GN=PRMT1 PE=1 SV=2;tr|A0A287B7C9|A0A287B7C9\_PIG Protein argin  
 9988700 0 0 11305000 0 0 10878000 0 0 9779800 0 0 8 8  
 8 15,1 15,1 15,1 73,831 0 15,654 235140000 23  
 A0A288CFT7;A0A286ZQD7;P12675;A0A286ZNA7;A0A287A526;F6PU32  
 A0A288CFT7;A0A286ZQD7;P12675;A0A286ZNA7;A0A287A526;F6PU32 70  
 tr|A0A288CFT7|A0A288CFT7\_PIG Calpain inhibitor OS=Sus scrofa OX=9823 GN=CAST PE=3 SV=2;tr|A0A286ZQD7|A0A286ZQD7\_PIG Calpain inhibitor OS=Sus scrofa OX=9823 GN=CAST PE=3 SV=2;sp|P12675|ICAL\_PIG Calpastatin OS=Sus scrofa OX=9823 GN=CAST PE=1 SV=1;tr|A0A286ZN  
 54774000 27226000 59445000 77122000 32152000 83357000 78695000 17572000 38038000 64554000  
 28475000 64010000 7 7 5 27,7 27,7 21 25,049 0 16,791  
 2797600000 67 A0A286ZND5;F1S3U9;A0A5K1VJP7 A0A286ZND5;F1S3U9 71  
 tr|A0A286ZND5|A0A286ZND5\_PIG Peroxiredoxin-1 OS=Sus scrofa OX=9823 GN=PRDX1 PE=1 SV=1;tr|F1S3U9|F1S3U9\_PIG Peroxiredoxin-1 OS=Sus scrofa OX=9823 GN=PRDX1 PE=1 SV=3  
 0 9499200 28458000 0 9719300 9794300 0 8374000 11177000 7420600 9577200 12250000  
 3 3 3 8,3 8,3 8,3 39,366 0 5,2387 250860000 6  
 A0A287AGH7;A0A287ACC3;A0A287A4E7;P36887;P05383;F1SD45;A0A286ZUD6;A0A286ZNG  
 3;A0A287AGL2;A0A287BQL5  
 A0A287AGH7;A0A287ACC3;A0A287A4E7;P36887;P05383;F1SD45;A0A286ZUD6;A0A286ZNG

3;A0A287AGL2;A0A287BQL5 72 tr|A0A287AGH7|A0A287AGH7\_PIG cAMP-dependent protein kinase OS=Sus scrofa OX=9823 GN=PRKACB PE=3 SV=1;tr|A0A287ACC3|A0A287ACC3\_PIG cAMP-dependent protein kinase OS=Sus scrofa OX=9823 GN=PRKACA PE=3 SV=2;tr|A0A287A4E7|A0A287A4E7\_PIG cAMP-dependent protein ki

15449000 10945000 36349000 23642000 24041000 30282000 16638000 0 34527000 42291000 23582000 76400000 6 6 6 28,4 28,4 28,4 30,201 0 16,954 937570000 54

A0A286ZNN4 A0A286ZNN4 73 tr|A0A286ZNN4|A0A286ZNN4\_PIG Complex I-30kD OS=Sus scrofa OX=9823 GN=NDUFS3 PE=1 SV=1

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 4,9 4,9 4,9 26,296 0,0078125 1,4857 4700300 3 A0A286ZNV0;I3LUD1 A0A286ZNV0;I3LUD1 74 tr|A0A286ZNV0|A0A286ZNV0\_PIG Superoxide dismutase [Cu-Zn] OS=Sus scrofa OX=9823 GN=SOD3 PE=1 SV=1;tr|I3LUD1|I3LUD1\_PIG Superoxide dismutase [Cu-Zn] OS=Sus scrofa OX=9823 GN=SOD3 PE=1 SV=2

366310000 320480000 293510000 114210000 275720000 236840000 229010000 136630000 226580000 156420000 146080000 154460000 14 14 6 26 26 11,5 53,636 0 46,706 14823000000 196

A0A5G2QNU4;A0A286ZNV2;A0A5K1VC16;A0A5G2QGC2;A0A5G2QBA4;A0A5G2QN81;F1S TM4;A0A5G2RBZ6;A0A5G2RFX0;A0A5G2QCL5;A0A286ZIH3;A0A5G2RHB8;A0A5G2Q9Y7

A0A5G2QNU4;A0A286ZNV2;A0A5K1VC16;A0A5G2QGC2;A0A5G2QBA4;A0A5G2QN81;F1S TM4;A0A5G2RBZ6;A0A5G2RFX0;A0A5G2QCL5 75 tr|A0A5G2QNU4|A0A5G2QNU4\_PIG Elongation factor 1-alpha OS=Sus scrofa OX=9823 GN=EEF1A2 PE=3 SV=1;tr|A0A286ZNV2|A0A286ZNV2\_PIG Elongation factor 1-alpha 2 OS=Sus scrofa OX=9823 GN=EEF1A2 PE=3 SV=1;tr|A0A5K1VC16|A0A5K1VC16\_PIG Elongation factor 1-alpha OS=Su

0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 3 3 3 73,277 0,004985 1,6213 26460000 3

A0A5G2QYF7;A0A286ZXZ1;A0A5G2RDH1;A0A5G2RAQ4;A0A5G2QRI6;A0A286ZNW1 A0A5G2QYF7;A0A286ZXZ1;A0A5G2RDH1;A0A5G2RAQ4;A0A5G2QRI6;A0A286ZNW1 76 tr|A0A5G2QYF7|A0A5G2QYF7\_PIG EMAP like 2 OS=Sus scrofa OX=9823 GN=EML2 PE=1 SV=1;tr|A0A286ZXZ1|A0A286ZXZ1\_PIG EMAP like 2 OS=Sus scrofa OX=9823 GN=EML2 PE=1 SV=2;tr|A0A5G2RDH1|A0A5G2RDH1\_PIG EMAP like 2 OS=Sus scrofa OX=9823 GN=EML2 PE=1 SV=1;tr|A0A5G2RAQ4

2975100000 8113800000 2765200000 3723100000 5077400000 2961200000 2989000000 7895000000 5026700000 2062500000 5752000000 2172600000 19 19 18 45,2 45,2 41,6 36,618 0 198,33 290470000000 2144

P00339;A0A287AFC1;A0A287B2H7;A0A5S6GD60;A0A286ZNX3;A0A286ZXT7;A0A5G2QUB8; A0A5G2QSJ4;A0A5G2QLD7;Q9TSX5;F1SFX0

P00339;A0A287AFC1;A0A287B2H7;A0A5S6GD60;A0A286ZNX3;A0A286ZXT7 77 sp|P00339|LDHA\_PIG L-lactate dehydrogenase A chain OS=Sus scrofa OX=9823 GN=LDHA PE=1 SV=3;tr|A0A287AFC1|A0A287AFC1\_PIG L-lactate dehydrogenase OS=Sus scrofa OX=9823 GN=LDHA PE=3 SV=2;tr|A0A287B2H7|A0A287B2H7\_PIG L-lactate dehydrogenase OS=Sus scrofa OX=98

14126000 15461000 21214000 0 4007400 3943800 0 0 7374200 0 0 5041100 6 6 3 17,8 17,8 8,9 48,895 0 9,2133 214610000 20

F2Z5S8;A0A286ZNY1;A0A5G2R655;F1SR80;A0A5G2QX54;A0A287BMB7;A0A287B5H5  
F2Z5S8;A0A286ZNY1;A0A5G2R655;F1SR80;A0A5G2QX54;A0A287BMB7;A0A287B5H5 78  
tr|F2Z5S8|F2Z5S8\_PIG Tubulin alpha chain OS=Sus scrofa OX=9823 GN=TUBA4A PE=1  
SV=2;tr|A0A286ZNY1|A0A286ZNY1\_PIG Tubulin alpha chain OS=Sus scrofa OX=9823  
GN=TUBA4A PE=1 SV=1;tr|A0A5G2R655|A0A5G2R655\_PIG Tubulin alpha 4a OS=Sus scrofa  
OX=9823 GN=TUBA4A PE=1  
0 0 0 0 0 0 0 0 4656900 4113200 0 0 2 2 2 9,2  
9,2 9,2 35,082 0 4,303 32755000 4  
A0A5G2QTV8;F1SN52;A0A5G2REV7;A0A287BBF3;A0A286ZP38;A0A287B9G2;A0A5G2QUD2  
;A0A5G2QLF4  
A0A5G2QTV8;F1SN52;A0A5G2REV7;A0A287BBF3;A0A286ZP38;A0A287B9G2;A0A5G2QUD2  
;A0A5G2QLF4 79 tr|A0A5G2QTV8|A0A5G2QTV8\_PIG 3-hydroxyisobutyryl-CoA hydrolase,  
mitochondrial OS=Sus scrofa OX=9823 GN=HIBCH PE=1 SV=1;tr|F1SN52|F1SN52\_PIG 3-  
hydroxyisobutyryl-CoA hydrolase, mitochondrial OS=Sus scrofa OX=9823 GN=HIBCH PE=1  
SV=4;tr|A0A5G2REV7|A0A5G2REV7\_P  
16784000 6709800 8010500 13397000 6591600 8552700 13018000 0 11012000 15336000 6822800  
8197900 4 4 2 22,2 22,2 11,8 22,931 0 10,805 215700000 32  
A0A5G2RMX2;A0A480T5S7;A0A286ZP69;A0A5G2RMS7;F1SPG0;A0A5G2R382;A0A287BQX8  
A0A5G2RMX2;A0A480T5S7;A0A286ZP69;A0A5G2RMS7;F1SPG0;A0A5G2R382;A0A287BQX8  
80 tr|A0A5G2RMX2|A0A5G2RMX2\_PIG RAB7A, member RAS oncogene family OS=Sus  
scrofa OX=9823 GN=RAB7A PE=1 SV=1;tr|A0A480T5S7|A0A480T5S7\_PIG RAB7A, member RAS  
oncogene family OS=Sus scrofa OX=9823 GN=RAB7A PE=1 SV=1;tr|A0A286ZP69|A0A286ZP69\_PIG  
RAB7A, member RAS o  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1,1 1,1 1,1  
105,62 0,0086124 1,3787 4122100 2 A0A287AVR0;A0A286ZP85  
A0A287AVR0;A0A286ZP85 81 tr|A0A287AVR0|A0A287AVR0\_PIG Eukaryotic translation  
initiation factor 3 subunit C OS=Sus scrofa OX=9823 GN=LOC110260088 PE=3  
SV=1;tr|A0A286ZP85|A0A286ZP85\_PIG Eukaryotic translation initiation factor 3 subunit C OS=Sus  
scrofa OX=9823 GN=LOC110260088 PE=3 S  
0 0 0 0 0 0 8411400 0 0 8383100 0 0 2 2 2 8,4  
8,4 8,4 42,654 0 14,53 44351000 5  
A0A286ZRK0;A0A286ZPG2;A0A287BPY7;A0A5G2R1G6;A0A287B444;A0A286ZSN6  
A0A286ZRK0;A0A286ZPG2;A0A287BPY7;A0A5G2R1G6;A0A287B444;A0A286ZSN6 82  
tr|A0A286ZRK0|A0A286ZRK0\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
GN=LOC100622780 PE=1 SV=2;tr|A0A286ZPG2|A0A286ZPG2\_PIG Uncharacterized protein  
OS=Sus scrofa OX=9823 GN=TMPO PE=3 SV=2;tr|A0A287BPY7|A0A287BPY7\_PIG Uncharacterized  
protein OS=Sus sc  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 9,3 9,3 9,3  
13,635 0,0030519 1,7888 250690000 9  
A0A5G2QNJ5;A0A287ABE6;A0A5G2R1D9;A0A286ZPH4;Q06AA9;F1S105;A0A288CFV1  
A0A5G2QNJ5;A0A287ABE6;A0A5G2R1D9;A0A286ZPH4;Q06AA9;F1S105;A0A288CFV1 83  
tr|A0A5G2QNJ5|A0A5G2QNJ5\_PIG Ubiquitin-conjugating enzyme E2 D2 OS=Sus scrofa  
OX=9823 GN=UBE2D2 PE=3 SV=1;tr|A0A287ABE6|A0A287ABE6\_PIG UBC core domain-containing

protein OS=Sus scrofa OX=9823 PE=4 SV=1;tr|A0A5G2R1D9|A0A5G2R1D9\_PIG Ubiquitin-conjugating enz

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 2,8 2,8 2,8  
55,794 0,0030334 1,7517 85955000 5 A0A286ZPP7;A0A286ZWZ8

A0A286ZPP7;A0A286ZWZ884 tr|A0A286ZPP7|A0A286ZPP7\_PIG RAR related orphan receptor C OS=Sus scrofa OX=9823 GN=RORC PE=3 SV=2;tr|A0A286ZWZ8|A0A286ZWZ8\_PIG RAR related orphan receptor C OS=Sus scrofa OX=9823 GN=RORC PE=3 SV=1

27457000 18276000 36009000 51591000 23753000 31180000 32366000 18348000 43263000 57196000  
29229000 71177000 7 7 7 32,9 32,9 32,9 27,406 0 55,564

1170000000 94 A0A287BG40;A0A286ZPT6;F1SM98 A0A287BG40;A0A286ZPT6;F1SM98  
85 tr|A0A287BG40|A0A287BG40\_PIG NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial OS=Sus scrofa OX=9823 GN=NDUFV2 PE=1 SV=1;tr|A0A286ZPT6|A0A286ZPT6\_PIG NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial OS=Sus scrofa OX=9823 GN=NDUFV2

17253000 0 57923000 25893000 34361000 66986000 18606000 10079000 19618000 23285000 19667000  
70707000 40 19 7 21,5 11,6 4,5 220,85 0 137,06 1165400000 72

A0A286ZPX6;P79293;A0A286ZS93;A0A286ZPQ9;A0A287AGU3  
A0A286ZPX6;P79293;A0A286ZS93;A0A286ZPQ9;A0A287AGU3 86  
tr|A0A286ZPX6|A0A286ZPX6\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 GN=LOC100736765 PE=1 SV=2;sp|P79293|MYH7\_PIG Myosin-7 OS=Sus scrofa OX=9823 GN=MYH7 PE=1 SV=2;tr|A0A286ZS93|A0A286ZS93\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 GN=LOC100736

25381000 0 0 27044000 0 13392000 0 0 0 13787000 0 0 17 4  
4 40,5 6 6 129,69 0 4,8599 192840000 12 A0A286ZPY1 A0A286ZPY1 87  
tr|A0A286ZPY1|A0A286ZPY1\_PIG AHNAK nucleoprotein OS=Sus scrofa OX=9823 GN=AHNAK PE=1 SV=2

0 2152100 3636600 1755300 1977800 1984400 0 0 2528100 0 0 2024300  
2 2 2 12,5 12,5 12,5 17,814 0,0049603 1,5945 32976000 3  
A0A5G2REK8;B5APU9;A0A5G2QG21;A0A286ZPY9;A0A5G2QPW1;A0A5G2QAE1;A0A5K1V DV6;A0A286ZXR9

A0A5G2REK8;B5APU9;A0A5G2QG21;A0A286ZPY9;A0A5G2QPW1;A0A5G2QAE1;A0A5K1V DV6;A0A286ZXR988 tr|A0A5G2REK8|A0A5G2REK8\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 GN=ARPC4 PE=1 SV=1;tr|B5APU9|B5APU9\_PIG Actin-related protein 2/3 complex subunit 4 OS=Sus scrofa OX=9823 GN=ARPC4 PE=1 SV=1;tr|A0A5G2QG21|A0A5G2QG21\_PIG Actin-related protein 2/3 c

5093800 21159000 39911000 18382000 45089000 44348000 10911000 24376000 40570000 13610000  
45321000 52339000 16 16 15 26,2 26,2 25 72,422 0 63,801  
2776100000 137

A0A5G2QBW2;A0A5G2QQF8;F1S086;A0A286ZQ07;A0A5G2QY62;A0A5G2QQP2;I3L8T2;I3L6 14;A0A286ZRZ5

A0A5G2QBW2;A0A5G2QQF8;F1S086;A0A286ZQ07;A0A5G2QY62;A0A5G2QQP2;I3L8T2;I3L6 14 89 tr|A0A5G2QBW2|A0A5G2QBW2\_PIG Solute carrier family 25 member 12 OS=Sus scrofa OX=9823 GN=SLC25A12 PE=1 SV=1;tr|A0A5G2QQF8|A0A5G2QQF8\_PIG Solute carrier family 25

member 12 OS=Sus scrofa OX=9823 GN=SLC25A12 PE=1 SV=1;tr|F1S086|F1S086\_PIG Calcium-binding mit

21788000 26264000 0 11402000 20969000 0 0 21691000 0 0 16050000 0

3 3 3 12,7 12,7 12,7 29,939 0 3,9371 332110000 7 A0A286ZQ31

A0A286ZQ31 90 tr|A0A286ZQ31|A0A286ZQ31\_PIG Phosphoglycerate mutase OS=Sus scrofa OX=9823 GN=BPGM PE=3 SV=1

0 0 0 0 0 0 0 0 0 0 0 0 0 15 1 1 13,2 2,2 2,2

104,7 0 33,317 1638700000 6 F1RGR0;A0A286ZVJ3;O77696;A0A286ZQ54

F1RGR0;A0A286ZVJ3;O77696;A0A286ZQ54 91 tr|F1RGR0|F1RGR0\_PIG Calcium-transporting ATPase OS=Sus scrofa OX=9823 GN=ATP2A3 PE=3 SV=4;tr|A0A286ZVJ3|A0A286ZVJ3\_PIG Calcium-transporting ATPase OS=Sus scrofa OX=9823 GN=ATP2A3 PE=3 SV=1;sp|O77696|AT2A3\_PIG Sarcoplasmic/endoplasmic reticulum calcium ATP

752980000 998730000 440960000 424050000 948080000 352840000 909640000

757210000 414650000 577490000 619010000 293150000 14 14

14 73,2 73,2 73,2 21,639 0 114,99 36439000000 451

P00571;A0A286ZQ79;A0A5S6G079;A0A287AJJ9;F1S9R3;A0A5G2RN95

P00571;A0A286ZQ79;A0A5S6G079 92 sp|P00571|KAD1\_PIG Adenylate kinase isoenzyme 1 OS=Sus scrofa OX=9823 GN=AK1 PE=1 SV=1;tr|A0A286ZQ79|A0A286ZQ79\_PIG Adenylate kinase isoenzyme 1 OS=Sus scrofa OX=9823 GN=AK1 PE=3 SV=2;tr|A0A5S6G079|A0A5S6G079\_PIG Adenylate kinase isoenzyme 1 OS=Sus scrofa

0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 9,8 9,8 9,8

14,461 0 4,3086 0 1

Q29375;A0A287BIE2;A0A287BM53;A0A5G2QBT0;A0A286ZQA5;A0A5G2R293

Q29375;A0A287BIE2;A0A287BM53;A0A5G2QBT0;A0A286ZQA5;A0A5G2R293 93

sp|Q29375|RL7A\_PIG 60S ribosomal protein L7a (Fragment) OS=Sus scrofa OX=9823 GN=RPL7A PE=2 SV=1;tr|A0A287BIE2|A0A287BIE2\_PIG Ribosomal\_L7Ae domain-containing protein OS=Sus scrofa OX=9823 PE=4 SV=2;tr|A0A287BM53|A0A287BM53\_PIG 60S ribosomal protein L7a OS

0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 4 4 4

22,196 0,0078278 1,4927 78443000 1

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A0A287BH85;A0A5G2QS99;I3LL89;A0A5G2Q9I7;A0A480EFR8;A0A286ZQM7 94

tr|A0A287BH85|A0A287BH85\_PIG Synaptoporin OS=Sus scrofa OX=9823 GN=SYNPR PE=1 SV=2;tr|A0A5G2QS99|A0A5G2QS99\_PIG Synaptoporin OS=Sus scrofa OX=9823 GN=SYNPR PE=1 SV=1;tr|I3LL89|I3LL89\_PIG Synaptoporin OS=Sus scrofa OX=9823 GN=SYNPR PE=1 SV=2;tr|A0A5G2Q9I7|A

0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0,7 0,7 0,7

122,76 0,009542 1,363 14145000 1

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A0A287B9L4;I3LTV3;A0A287A1U4;A0A481BP96;A0A286ZQP1 95

tr|A0A287B9L4|A0A287B9L4\_PIG Fibronectin type III domain containing 3A OS=Sus scrofa OX=9823 GN=FNDC3A PE=1 SV=2;tr|I3LTV3|I3LTV3\_PIG Fibronectin type III domain containing 3A OS=Sus scrofa OX=9823 GN=FNDC3A PE=1 SV=2;tr|A0A287A1U4|A0A287A1U4\_PIG Fibronect



37804000 29405000 51564000 54691000 45472000 39979000 52934000 30721000 34721000 59403000  
35818000 57734000 10 10 10 29,9 29,9 29,9 37,406 0 53,753  
2430800000 86 A0A286ZQY6;P56471 A0A286ZQY6 96  
tr|A0A286ZQY6|A0A286ZQY6\_PIG Isocitrate dehydrogenase [NAD] subunit, mitochondrial  
OS=Sus scrofa OX=9823 GN=IDH3A PE=1 SV=2  
0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 2,9 2,9 2,9  
46,08 0,0022371 2,4717 4879100 1  
A0A287A9Z2;F1SHX9;A0A5G2QW07;A0A286ZQZ4  
A0A287A9Z2;F1SHX9;A0A5G2QW07;A0A286ZQZ4 97  
tr|A0A287A9Z2|A0A287A9Z2\_PIG L-2-hydroxyglutarate dehydrogenase OS=Sus scrofa  
OX=9823 GN=L2HGDH PE=1 SV=1;tr|F1SHX9|F1SHX9\_PIG L-2-hydroxyglutarate dehydrogenase  
OS=Sus scrofa OX=9823 GN=L2HGDH PE=1 SV=2;tr|A0A5G2QW07|A0A5G2QW07\_PIG L-2-  
hydroxyglutarate de  
0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 11,4 11,4 11,4  
14,55 0,0022173 2,3854 177810000 8  
F2Z5K9;A0A286ZRB3;Q71LE2;F1RVA0;A0A286ZTM7;A0A287BKF7;A0A287B5T7  
F2Z5K9;A0A286ZRB3;Q71LE2;F1RVA0;A0A286ZTM7;A0A287BKF7;A0A287B5T7 98  
tr|F2Z5K9|F2Z5K9\_PIG Histone domain-containing protein OS=Sus scrofa OX=9823 PE=3  
SV=3;tr|A0A286ZRB3|A0A286ZRB3\_PIG Histone domain-containing protein OS=Sus scrofa  
OX=9823 PE=1 SV=1;sp|Q71LE2|H33\_PIG Histone H3.3 OS=Sus scrofa OX=9823 GN=H3-3A PE=2  
SV=3;tr  
15549000 13940000 21478000 19030000 20304000 25966000 17225000 15675000 20299000 19567000  
20659000 32329000 10 10 10 17,7 17,7 17,7 70,902 0 28,691  
1430100000 100  
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99 tr|A0A286ZRC3|A0A286ZRC3\_PIG Carnitine O-acetyltransferase OS=Sus scrofa OX=9823  
GN=CRAT PE=1 SV=1;tr|A0A287AVT7|A0A287AVT7\_PIG Carnitine O-acetyltransferase OS=Sus  
scrofa OX=9823 GN=CRAT PE=1 SV=1;tr|A0A5G2QG61|A0A5G2QG61\_PIG Carnitine O-  
acetyltransferase  
8742300 10612000 16625000 10282000 12858000 25523000 7508900 7894900 16106000 11895000  
13510000 22483000 20 20 9 24,9 24,9 9,6 103,62 0 65,034  
1312400000 100  
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K3;A0A5K1U342;A0A5G2R034;A0A5G2QW96 100 tr|A0A287AVW1|A0A287AVW1\_PIG  
Sodium/potassium-transporting ATPase subunit alpha OS=Sus scrofa OX=9823 GN=LOC100157711  
PE=3 SV=1;tr|A0A286ZRG2|A0A286ZRG2\_PIG Sodium/potassium-transporting ATPase subunit  
alpha OS=Sus scrofa OX=9823 GN=LOC100157711 PE=3 SV=2;  
0 11083000 10612000 0 0 9907100 0 0 0 0 0 0 0 3 3 2  
7,2 7,2 5,6 61,465 0 5,8191 108800000 10

A0A286ZRG9;F1RQM4;A0A5G2RAJ8;Q29558;A0A5G2QSJ2;A0A5G2R7A1;F1RPN9;A0A5G2QMD3;A0A5G2QB59;A0A286ZNS2 A0A286ZRG9;F1RQM4;A0A5G2RAJ8;Q29558 101

tr|A0A286ZRG9|A0A286ZRG9\_PIG Malic enzyme OS=Sus scrofa OX=9823 GN=ME1 PE=1 SV=1;tr|F1RQM4|F1RQM4\_PIG Malic enzyme OS=Sus scrofa OX=9823 GN=ME1 PE=1 SV=4;tr|A0A5G2RAJ8|A0A5G2RAJ8\_PIG Malic enzyme OS=Sus scrofa OX=9823 GN=ME1 PE=1 SV=1;sp|Q29558|MAOX\_PIG NA

21239000 14831000 37329000 12144000 25036000 33132000 11271000 14276000 22210000 32025000

27778000 49151000 4 4 4 19,5 19,5 19,5 25,43 0 18,55

848130000 42 A0A5G2RD05;F1SNF6;A0A286ZRH7;A0A287AC97;A0A286ZUS4

A0A5G2RD05;F1SNF6;A0A286ZRH7;A0A287AC97;A0A286ZUS4 102

tr|A0A5G2RD05|A0A5G2RD05\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 GN=CHCHD3 PE=1 SV=1;tr|F1SNF6|F1SNF6\_PIG MICOS complex subunit MIC19 isoform 2 OS=Sus scrofa OX=9823 GN=CHCHD3 PE=1 SV=2;tr|A0A286ZRH7|A0A286ZRH7\_PIG Uncharacterized protein OS=Sus

252090000 240880000 151600000 135150000 166840000 147430000 253150000

157350000 154670000 266010000 143950000 144880000 18 18

18 42,5 42,5 42,5 49,774 0 269,75 11892000000 339

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F1RXZ6;A0A287B1S9;A0A287B1H6;A0A287BAF8;A0A286ZRI3;A0A287AW68;A0A287AVP0;A0A287AMG7;A0A286ZWH1;A0A287B568 103 tr|F1RXZ6|F1RXZ6\_PIG Bridging integrator 1 OS=Sus scrofa OX=9823 GN=BIN1 PE=1 SV=3;tr|A0A287B1S9|A0A287B1S9\_PIG Bridging integrator 1 OS=Sus scrofa OX=9823 GN=BIN1 PE=1 SV=1;tr|A0A287B1H6|A0A287B1H6\_PIG Bridging integrator 1 OS=Sus scrofa OX=9823 GN=BIN1 P

30214000 58823000 40168000 27306000 100060000 0 70622000 79185000 38672000 48477000

46518000 0 5 5 5 41,5 41,5 41,5 14,694 0 15,626 895810000

41 Q49I35;A0A286ZRI5;A0A286ZWB2;A0A5G2QD67;A0A5G2Q797

Q49I35;A0A286ZRI5;A0A286ZWB2;A0A5G2QD67;A0A5G2Q797 104 sp|Q49I35|LEG1\_PIG Galectin-1 OS=Sus scrofa OX=9823 GN=LGALS1 PE=2 SV=3;tr|A0A286ZRI5|A0A286ZRI5\_PIG Galectin OS=Sus scrofa OX=9823 GN=LGALS1 PE=1 SV=1;tr|A0A286ZWB2|A0A286ZWB2\_PIG Galectin OS=Sus scrofa OX=9823 GN=LGALS1 PE=1 SV=2;tr|A0A5G2QD67|A0A5G2QD67

0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 2,6 2,6 2,6

52,129 0,0031983 2,0861 0 1

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0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 2,9 2,9 2,9

46,524 0 2,9179 5149000 3 A0A286ZR9U A0A286ZR9U 106

tr|A0A286ZRU9|A0A286ZRU9\_PIG Collagen-binding protein OS=Sus scrofa OX=9823  
GN=SERPINH1 PE=1 SV=1  
116930000 96419000 84509000 140180000 111740000 77728000 154580000 97794000  
54593000 90655000 116550000 77789000 8 8 8 24,7 24,7 24,7 36,262  
0 46,073 330780000 100  
A0A480XNH5;A0A287BDZ2;A0A286ZRX4;A0A5G2QVC5;A0A5G2QZZ8  
A0A480XNH5;A0A287BDZ2;A0A286ZRX4;A0A5G2QVC5;A0A5G2QZZ8 107  
tr|A0A480XNH5|A0A480XNH5\_PIG Mono-ADP ribosylhydrolase 1 OS=Sus scrofa OX=9823  
GN=MACROD1 PE=1 SV=1;tr|A0A287BDZ2|A0A287BDZ2\_PIG Mono-ADP ribosylhydrolase 1  
OS=Sus scrofa OX=9823 GN=MACROD1 PE=1 SV=2;tr|A0A286ZRX4|A0A286ZRX4\_PIG Mono-ADP  
ribosylhydrolase 1  
102560000 82132000 84511000 43540000 55782000 52934000 40880000 57736000 49885000 46840000  
69497000 81446000 52 52 1 24,2 24,2 0,6 286,58 0 284,11  
649080000 352  
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87AHQ3 A0A286ZRX8;A0A5G2R269;F1SMN5;A0A5G2QY64 108  
tr|A0A286ZRX8|A0A286ZRX8\_PIG Filamin C OS=Sus scrofa OX=9823 GN=FLNC PE=1  
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SV=1;tr|F1SMN5|F1SMN5\_PIG Filamin C OS=Sus scrofa OX=9823 GN=FLNC PE=1  
SV=1;tr|A0A5G2QY64|A0A5G2QY64\_PI  
18885000 13654000 14462000 25982000 11381000 14977000 23128000 11139000 12300000 28466000  
12766000 11437000 4 4 2 26,4 26,4 13,8 19,104 0 17,193  
454510000 52 A0A287BNU5;A0A286ZS27;A0A287ARC7;Q06AU6;A0A5G2R4N3  
A0A287BNU5;A0A286ZS27;A0A287ARC7;Q06AU6;A0A5G2R4N3 109  
tr|A0A287BNU5|A0A287BNU5\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
GN=CDK2 PE=1 SV=2;tr|A0A286ZS27|A0A286ZS27\_PIG Uncharacterized protein OS=Sus scrofa  
OX=9823 GN=CDK2 PE=1 SV=1;tr|A0A287ARC7|A0A287ARC7\_PIG Protein kinase domain-  
containing protein  
21576000 14152000 14378000 36747000 14422000 14235000 35240000 10574000 17821000 36872000  
16340000 21500000 8 8 8 32,9 32,9 32,9 27,219 0 26,111  
950790000 55 A0A5G2QW86;A0A5G2QGZ8;A0A286ZS77;A0A5G2RDX9;A0A5K1V4A5  
A0A5G2QW86;A0A5G2QGZ8;A0A286ZS77;A0A5G2RDX9;A0A5K1V4A5 110  
tr|A0A5G2QW86|A0A5G2QW86\_PIG Basigin OS=Sus scrofa OX=9823 GN=BSG PE=1  
SV=1;tr|A0A5G2QGZ8|A0A5G2QGZ8\_PIG Basigin OS=Sus scrofa OX=9823 GN=BSG PE=1  
SV=1;tr|A0A286ZS77|A0A286ZS77\_PIG Basigin OS=Sus scrofa OX=9823 GN=BSG PE=1  
SV=1;tr|A0A5G2RDX9|A0A5G2RDX9\_PIG  
275410000 163210000 177580000 265470000 194470000 240190000 275000000  
115800000 175170000 278720000 162650000 153340000 2 2  
2 8,3 8,3 8,3 22,076 0 9,9962 4642300000 32  
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B25  
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B25 111 tr|A0A287A0T4|A0A287A0T4\_PIG Reticulon OS=Sus scrofa OX=9823 GN=RTN2 PE=4

SV=2;tr|A0A287A9N4|A0A287A9N4\_PIG Reticulon OS=Sus scrofa OX=9823 GN=RTN2 PE=4  
SV=2;tr|A0A287AAB1|A0A287AAB1\_PIG Reticulon OS=Sus scrofa OX=9823 GN=RTN2 PE=4  
SV=1;tr|A0A286ZS99|A0A286ZS99\_PIG  
17414000 17426000 11372000 18605000 10811000 0 24963000 0 0 28784000 0 0  
3 3 3 15 15 15 26,251 0 17,68 303730000 16 A0A286ZSA7;I3LHC8  
A0A286ZSA7;I3LHC8 112 tr|A0A286ZSA7|A0A286ZSA7\_PIG 3-hydroxybutyrate  
dehydrogenase 2 OS=Sus scrofa OX=9823 GN=BDH2 PE=1 SV=1;tr|I3LHC8|I3LHC8\_PIG 3-  
hydroxybutyrate dehydrogenase 2 OS=Sus scrofa OX=9823 GN=BDH2 PE=1 SV=1  
6911900 0 0 11601000 0 0 9898200 0 0 11135000 0 7985800 8  
8 8 33,3 33,3 33,3 37,18 0 37,243 172400000 18  
F1S269;A0A286ZSH0;A0A5G2R4Y1;A0A5G2RF79  
F1S269;A0A286ZSH0;A0A5G2R4Y1;A0A5G2RF79 113 tr|F1S269|F1S269\_PIG RCSD domain  
containing 1 OS=Sus scrofa OX=9823 GN=RCSD1 PE=1 SV=4;tr|A0A286ZSH0|A0A286ZSH0\_PIG  
RCSD domain containing 1 OS=Sus scrofa OX=9823 GN=RCSD1 PE=1  
SV=1;tr|A0A5G2R4Y1|A0A5G2R4Y1\_PIG RCSD domain containing 1 OS=Sus scrofa OX=9823  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 5,2 5,2 5,2  
32,226 0,0021645 2,1834 2374900 2 A0A286ZSM1 A0A286ZSM1 114  
tr|A0A286ZSM1|A0A286ZSM1\_PIG Very-long-chain (3R)-3-hydroxyacyl-CoA dehydratase  
OS=Sus scrofa OX=9823 GN=HACD1 PE=3 SV=1  
14646000 9286500 10526000 0 6192200 7322400 5446400 0 7888600 7757900 0 8797700  
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115 tr|F1S441|F1S441\_PIG Calnexin OS=Sus scrofa OX=9823 GN=CANX PE=1  
SV=2;tr|A0A286ZSW6|A0A286ZSW6\_PIG Calnexin OS=Sus scrofa OX=9823 GN=CANX PE=1  
SV=2;tr|A0A287AME1|A0A287AME1\_PIG Calnexin OS=Sus scrofa OX=9823 GN=CANX PE=1  
SV=1;tr|A0A5G2QQK5|A0A5G2QQK5\_PIG C  
267000000 0 0 275250000 0 401180000 0 0 177370000 288080000  
155510000 145930000 2 2 1 18,3 18,3 8,9 18,009 0 32,546  
2679400000 37 A0A287BAB3;A0A286ZSX6;A0A286ZIM1  
A0A287BAB3;A0A286ZSX6;A0A286ZIM1 116 tr|A0A287BAB3|A0A287BAB3\_PIG Ig-like  
domain-containing protein OS=Sus scrofa OX=9823 PE=4 SV=2;tr|A0A286ZSX6|A0A286ZSX6\_PIG  
Ig-like domain-containing protein OS=Sus scrofa OX=9823 PE=4  
SV=2;tr|A0A286ZIM1|A0A286ZIM1\_PIG Ig-like domain-containing protein OS=  
1785400000 1147300000 1252000000 1578600000 741790000 1586000000 1884300000  
645430000 699980000 2069500000 828480000 1075000000 44 44  
31 60,2 60,2 43,7 67,168 0 323,31 188380000000 1635  
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tr|A0A287AMK0|A0A287AMK0\_PIG Albumin OS=Sus scrofa OX=9823 GN=ALB PE=1  
SV=1;tr|A0A286ZT13|A0A286ZT13\_PIG Albumin OS=Sus scrofa OX=9823 GN=ALB PE=1  
SV=1;sp|P08835|ALBU\_PIG Albumin OS=Sus scrofa OX=9823 GN=ALB PE=1  
SV=2;tr|F1RUN2|F1RUN2\_PIG Albumin OS=Sus sc

18066000 11572000 13237000 3703300 9867200 0 15292000 0 8441800 8980800 6918300  
6864300 10 10 10 22,9 22,9 22,9 48,162 0 15,615 392800000 33  
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A0A287BQI6;A0A286ZT34;I3LNP9;A0A287AEC0 118 tr|A0A287BQI6|A0A287BQI6\_PIG  
Basic leucine zipper and W2 domains 2 OS=Sus scrofa OX=9823 GN=BZW2 PE=1  
SV=1;tr|A0A286ZT34|A0A286ZT34\_PIG Basic leucine zipper and W2 domains 2 OS=Sus scrofa  
OX=9823 GN=BZW2 PE=1 SV=1;tr|I3LNP9|I3LNP9\_PIG Basic leucine zipper  
12146000 0 5907000 0 0 0 0 0 0 0 0 0 2 2 2 5,3  
5,3 5,3 44,323 0,0032293 2,13 70735000 8  
F1SID4;A0A5G2Q9I2;A0A286ZT52;A0A5G2QSU8  
F1SID4;A0A5G2Q9I2;A0A286ZT52;A0A5G2QSU8 119 tr|F1SID4|F1SID4\_PIG AAA domain-  
containing protein OS=Sus scrofa OX=9823 GN=PSMC3 PE=1  
SV=3;tr|A0A5G2Q9I2|A0A5G2Q9I2\_PIG AAA domain-containing protein OS=Sus scrofa OX=9823  
GN=PSMC3 PE=1 SV=1;tr|A0A286ZT52|A0A286ZT52\_PIG AAA domain-containing protein OS=Su  
25734000 9330600 13321000 17415000 10132000 17437000 21486000 4229600 14130000 14198000  
7831900 23796000 12 12 12 44,6 44,6 44,6 25,992 0 51,102  
971710000 76 A0A286ZT82;A0A287AZK2 A0A286ZT82;A0A287AZK2 120  
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SV=1;tr|A0A287AZK2|A0A287AZK2\_PIG Transgelin OS=Sus scrofa OX=9823 GN=TAGLN PE=1  
SV=1  
13047000 0 7157800 10362000 0 20443000 12784000 0 14997000 9450400 0 12548000  
5 5 5 13,2 13,2 13,2 50,868 0 16,118 287380000 22  
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SV=2;tr|A0A287ALC1|A0A287ALC1\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 PE=4  
SV=2;tr|A0A287BM31|A0A287BM31\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 PE=4  
SV=1;t  
0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 13 13 13  
20,088 0 5,9107 10335000 2  
A0A5G2QPH7;A0A5G2R902;A0A287BCR7;A0A286ZT96;F1RPV1  
A0A5G2QPH7;A0A5G2R902;A0A287BCR7;A0A286ZT96;F1RPV1 122  
tr|A0A5G2QPH7|A0A5G2QPH7\_PIG TIP41-like protein OS=Sus scrofa OX=9823 GN=TIPRL  
PE=1 SV=1;tr|A0A5G2R902|A0A5G2R902\_PIG TIP41-like protein OS=Sus scrofa OX=9823  
GN=TIPRL PE=1 SV=1;tr|A0A287BCR7|A0A287BCR7\_PIG TIP41-like protein OS=Sus scrofa  
OX=9823 GN=TIPRL  
5071700 6627200 36952000 4970700 14404000 20472000 6278200 8024500 15056000 10848000  
16637000 25902000 7 7 7 17,7 17,7 17,7 53,591 0 19,811  
633480000 45  
A0A5G2R406;A0A286ZTB0;A0A5G2QT34;F1ST01;A0A286ZVY0;A0A480MVX6;A0A5G2QX06;  
A0A5G2QLA7;A0A5G2R8J3;A0A286ZRR3  
A0A5G2R406;A0A286ZTB0;A0A5G2QT34;F1ST01;A0A286ZVY0;A0A480MVX6;A0A5G2QX06;  
A0A5G2QLA7;A0A5G2R8J3;A0A286ZRR3 123 tr|A0A5G2R406|A0A5G2R406\_PIG Selenium

binding protein 1 OS=Sus scrofa OX=9823 GN=SELENBP1 PE=1  
SV=1;tr|A0A286ZTB0|A0A286ZTB0\_PIG Selenium binding protein 1 OS=Sus scrofa OX=9823  
GN=SELENBP1 PE=1 SV=2;tr|A0A5G2QT34|A0A5G2QT34\_PIG Selenium binding protein 1  
0 0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 25 25 25  
16,145 0 6,5263 68860000 9  
A0A5G2R4K1;A0A287B8I6;F6Q3P3;A0A5G2RFW2;A0A286ZTI3;A0A286ZZ57;A0A287B5T6;A0  
A5G2QSV6;B9V4F0;A0A287BM57;A0A5G2QS08;A0A287A7C1;A0A287A1L1;A0A5G2R3T3;A0A287  
A1M9  
A0A5G2R4K1;A0A287B8I6;F6Q3P3;A0A5G2RFW2;A0A286ZTI3;A0A286ZZ57;A0A287B5T6;A0  
A5G2QSV6;B9V4F0;A0A287BM57;A0A5G2QS08;A0A287A7C1 124  
tr|A0A5G2R4K1|A0A5G2R4K1\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
GN=FKBP11 PE=4 SV=1;tr|A0A287B8I6|A0A287B8I6\_PIG Uncharacterized protein OS=Sus scrofa  
OX=9823 GN=FKBP11 PE=3 SV=2;tr|F6Q3P3|F6Q3P3\_PIG ADP ribosylation factor 1 OS=Sus scrofa  
OX=98  
2446000000 3688600000 7428100000 2910100000 10067000000 7222200000 2036900000  
3276700000 5010000000 2261200000 6902000000 8650700000 8 8  
8 30,2 30,2 30,2 31,341 0 30,864 65607000000 88  
A0A287APA1;A0A5G2QPT6;A0A287ACQ7;A0A5G2QWH5;A0A287ABB8;A0A286ZTN4;A0A2  
87BEE0  
A0A287APA1;A0A5G2QPT6;A0A287ACQ7;A0A5G2QWH5;A0A287ABB8;A0A286ZTN4;A0A2  
87BEE0 125 tr|A0A287APA1|A0A287APA1\_PIG NIPSNAP domain-containing protein OS=Sus  
scrofa OX=9823 GN=NIPSNAP2 PE=1 SV=1;tr|A0A5G2QPT6|A0A5G2QPT6\_PIG NIPSNAP  
domain-containing protein OS=Sus scrofa OX=9823 GN=NIPSNAP2 PE=1  
SV=1;tr|A0A287ACQ7|A0A287ACQ7\_PIG NIPSNAP domai  
0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 16,9 16,9 16,9  
15,182 0 3,5431 15733000 4 A0A5G2QEE8;A0A286ZTS1 A0A5G2QEE8;A0A286ZTS1  
126 tr|A0A5G2QEE8|A0A5G2QEE8\_PIG Trans-3-hydroxy-L-proline dehydratase OS=Sus  
scrofa OX=9823 GN=L3HYDPH PE=3 SV=1;tr|A0A286ZTS1|A0A286ZTS1\_PIG Trans-3-hydroxy-L-  
proline dehydratase OS=Sus scrofa OX=9823 GN=L3HYDPH PE=3 SV=1  
0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1  
141,27 0,0086207 1,3817 0 1  
A0A5G2QWB8;A0A286ZTV9;A0A287A2J1;A0A287BSL5;A0A287AVK6;A0A287AMQ1;A0A48  
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A0A5G2QWB8;A0A286ZTV9;A0A287A2J1;A0A287BSL5;A0A287AVK6;A0A287AMQ1;A0A48  
0MFV9;F1SSN5;A0A286ZZV9 127 tr|A0A5G2QWB8|A0A5G2QWB8\_PIG Kinectin 1 OS=Sus  
scrofa OX=9823 GN=KTN1 PE=1 SV=1;tr|A0A286ZTV9|A0A286ZTV9\_PIG Kinectin 1 OS=Sus scrofa  
OX=9823 GN=KTN1 PE=1 SV=2;tr|A0A287A2J1|A0A287A2J1\_PIG Kinectin 1 OS=Sus scrofa  
OX=9823 GN=KTN1 PE=1 SV=2;tr|A0A287BSL5|A0  
0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 4,6 4,6 4,6  
35,766 0,0021692 2,2053 19486000 3  
A0A5G2RGM3;A0A287ATT7;A0A286ZU25;F1S8D4  
A0A5G2RGM3;A0A287ATT7;A0A286ZU25;F1S8D4 128  
tr|A0A5G2RGM3|A0A5G2RGM3\_PIG WD repeat domain 77 OS=Sus scrofa OX=9823

GN=WDR77 PE=1 SV=1;tr|A0A287ATT7|A0A287ATT7\_PIG WD repeat domain 77 OS=Sus scrofa  
 OX=9823 GN=WDR77 PE=1 SV=2;tr|A0A286ZU25|A0A286ZU25\_PIG WD repeat domain 77 OS=Sus  
 scrofa OX=9823 GN=WD

0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 13,1 13,1 13,1  
 26,522 0 7,18 71882000 6 A0A286ZU36;I3LIA4 A0A286ZU36;I3LIA4 129

tr|A0A286ZU36|A0A286ZU36\_PIG Guanidinoacetate N-methyltransferase OS=Sus scrofa  
 OX=9823 GN=GAMT PE=1 SV=1;tr|I3LIA4|I3LIA4\_PIG Guanidinoacetate N-methyltransferase  
 OS=Sus scrofa OX=9823 GN=GAMT PE=1 SV=2

0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 1,5 1,5 1,5  
 229,58 0 3,6584 22832000 4

A0A286ZU47;A0A287AXE7;F1RWD6;A0A287A071;F1RWD9;A0A287BT51;A0A287BHD1  
 A0A286ZU47;A0A287AXE7;F1RWD6;A0A287A071;F1RWD9;A0A287BT51;A0A287BHD1 130  
 tr|A0A286ZU47|A0A286ZU47\_PIG Supervillin OS=Sus scrofa OX=9823 GN=SVIL PE=1  
 SV=1;tr|A0A287AXE7|A0A287AXE7\_PIG Supervillin OS=Sus scrofa OX=9823 GN=SVIL PE=1  
 SV=2;tr|F1RWD6|F1RWD6\_PIG Supervillin OS=Sus scrofa OX=9823 GN=SVIL PE=1  
 SV=4;tr|A0A287A071|A0A287A

0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 4,6 4,6 4,6  
 60,341 0,0031579 1,9739 11576000 3

I3L7S4;A0A287AXR7;F1SNH3;A0A286ZUH0;I3L650  
 I3L7S4;A0A287AXR7;F1SNH3;A0A286ZUH0;I3L650 131 tr|I3L7S4|I3L7S4\_PIG  
 Caldesmon 1 OS=Sus scrofa OX=9823 GN=CALD1 PE=1 SV=3;tr|A0A287AXR7|A0A287AXR7\_PIG  
 Caldesmon 1 OS=Sus scrofa OX=9823 GN=CALD1 PE=1 SV=1;tr|F1SNH3|F1SNH3\_PIG Caldesmon  
 1 OS=Sus scrofa OX=9823 GN=CALD1 PE=1 SV=2;tr|A0A286ZUH0|A0A286ZUH0\_P

46738000 81591000 57967000 76916000 103880000 58321000 69193000 62524000 80105000 72224000  
 76852000 40415000 3 3 3 11,4 11,4 11,4 37,404 0 17,38  
 1160900000 50

A0A286ZUI9;A0A5G2R4T3;A0A5G2QYM2;F1SKC4;A0A287BSM6;A0A5G2R329;A0A287ASA2  
 ;A0A287BBS7;A0A287A756;A0A5G2R2E9 A0A286ZUI9;A0A5G2R4T3;A0A5G2QYM2;F1SKC4 132  
 tr|A0A286ZUI9|A0A286ZUI9\_PIG Glycogenin 1 OS=Sus scrofa OX=9823 GN=GYG1 PE=1  
 SV=1;tr|A0A5G2R4T3|A0A5G2R4T3\_PIG Glycogenin 1 OS=Sus scrofa OX=9823 GN=GYG1 PE=1  
 SV=1;tr|A0A5G2QYM2|A0A5G2QYM2\_PIG Glycogenin 1 OS=Sus scrofa OX=9823 GN=GYG1 PE=1  
 SV=1;tr|F1SKC4|

35957000 43369000 28176000 48993000 36025000 36639000 34876000 27598000 33822000 33110000  
 31503000 28349000 22 22 22 31,6 31,6 31,6 89,302 0 75,554

2944700000 144 A0A480IPJ6;F1SIH8;A0A286ZUM8;P03974;A0A286ZSB5;A0A5G2RLZ5  
 A0A480IPJ6;F1SIH8;A0A286ZUM8;P03974;A0A286ZSB5;A0A5G2RLZ5 133  
 tr|A0A480IPJ6|A0A480IPJ6\_PIG 15S Mg(2+)-ATPase p97 subunit OS=Sus scrofa OX=9823  
 GN=VCP PE=1 SV=1;tr|F1SIH8|F1SIH8\_PIG 15S Mg(2+)-ATPase p97 subunit OS=Sus scrofa  
 OX=9823 GN=VCP PE=1 SV=3;tr|A0A286ZUM8|A0A286ZUM8\_PIG 15S Mg(2+)-ATPase p97  
 subunit OS=Sus sc

0 0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 15,4 15,4 15,4  
 22,156 0 11,646 388580000 5 A0A286ZUN9;A0A287BDC0;A0A287BJQ2

A0A286ZUN9;A0A287BDC0;A0A287BJQ2 134 tr|A0A286ZUN9|A0A286ZUN9\_PIG Complex

I-23kD OS=Sus scrofa OX=9823 GN=NDUFS8 PE=1 SV=2;tr|A0A287BDC0|A0A287BDC0\_PIG  
Complex I-23kD OS=Sus scrofa OX=9823 GN=NDUFS8 PE=1  
SV=2;tr|A0A287BJQ2|A0A287BJQ2\_PIG Complex I-23kD OS=Sus scrofa OX=9823 GN=NDUFS8  
PE=1 SV=  
19933000 9257800 20509000 14437000 9228000 37669000 18622000 0 13153000 21291000 11062000  
21006000 8 8 8 15,7 15,7 15,7 55,704 0 19,484 860910000 63  
F1SC20;A0A287AAD5;A0A286ZUY9;CON\_\_Q2KJF1 F1SC20;A0A287AAD5;A0A286ZUY9  
135 tr|F1SC20|F1SC20\_PIG Alpha-1B-glycoprotein OS=Sus scrofa OX=9823 GN=A1BG PE=1  
SV=2;tr|A0A287AAD5|A0A287AAD5\_PIG Alpha-1B-glycoprotein OS=Sus scrofa OX=9823  
GN=A1BG PE=1 SV=2;tr|A0A286ZUY9|A0A286ZUY9\_PIG Alpha-1B-glycoprotein OS=Sus scrofa  
OX=9823 GN=A1BG P  
16442000 23808000 39650000 1449400 34704000 40662000 0 11398000 24608000 6665500 18690000  
75918000 20 20 20 23,6 23,6 23,6 111,01 0 88,029 2004700000 116  
A0A286ZV48;K9IVI1;A0A287B410;A0A287ARP4;F1SSH8;A0A5G2QAZ0;A0A5G2QGM1;F1SD  
W6;A0A286ZWR6  
A0A286ZV48;K9IVI1;A0A287B410;A0A287ARP4;F1SSH8;A0A5G2QAZ0;A0A5G2QGM1 136  
tr|A0A286ZV48|A0A286ZV48\_PIG Oxoglutarate dehydrogenase (succinyl-transferring)  
OS=Sus scrofa OX=9823 GN=OGDH PE=1 SV=1;tr|K9IVI1|K9IVI1\_PIG Oxoglutarate dehydrogenase  
(succinyl-transferring) OS=Sus scrofa OX=9823 GN=OGDH PE=1 SV=1;tr|A0A287B410|A0A287B410  
32764000 18058000 19302000 24458000 11975000 17452000 33395000 11577000 15911000 26644000  
12124000 10821000 17 17 17 18,1 18,1 18,1 120,3 0 92,825  
1529000000 105  
A0A286ZV56;A0A288CG38;A0A287AP40;A0A287BIN3;A0A287B843;A0A286ZNE8  
A0A286ZV56;A0A288CG38;A0A287AP40;A0A287BIN3;A0A287B843 137  
tr|A0A286ZV56|A0A286ZV56\_PIG Calcium voltage-gated channel auxiliary subunit  
alpha2delta 1 OS=Sus scrofa OX=9823 GN=CACNA2D1 PE=1  
SV=2;tr|A0A288CG38|A0A288CG38\_PIG Calcium voltage-gated channel auxiliary subunit  
alpha2delta 1 OS=Sus scrofa OX=9823 GN=CACNA  
22923000 0 34613000 6966800 11846000 9376800 12296000 27126000 10679000 16903000 25922000  
20320000 12 12 12 22,4 22,4 22,4 60,264 0 46,384 790640000 36  
A0A286ZV66 A0A286ZV66 138 tr|A0A286ZV66|A0A286ZV66\_PIG Uncharacterized protein  
OS=Sus scrofa OX=9823 PE=4 SV=2  
7566600 5753700 4695600 12681000 0 6161500 10445000 0 8012600 15798000 5719100  
5621000 3 3 3 14,6 14,6 14,6 24,91 0 8,427 137550000 17  
A0A286ZV95 A0A286ZV95 139 tr|A0A286ZV95|A0A286ZV95\_PIG Transmembrane emp24  
domain-containing protein 10 OS=Sus scrofa OX=9823 GN=TMED10 PE=1 SV=1  
0 0 0 0 0 0 0 0 0 0 0 0 0 4 2 2 27,7 16,9 16,9  
18,518 0,0011641 2,8118 101710000 3  
P10668;A0A286ZVE7;K7GK75;A0A5S6IF30;P60982;A0A5G2REA6;A0A5G2RAG2;A0A287BRC  
5 P10668;A0A286ZVE7;K7GK75 140 sp|P10668|COF1\_PIG Cofilin-1 OS=Sus scrofa OX=9823  
GN=CFL1 PE=1 SV=3;tr|A0A286ZVE7|A0A286ZVE7\_PIG Cofilin, non-muscle isoform OS=Sus  
scrofa OX=9823 GN=CFL1 PE=1 SV=1;tr|K7GK75|K7GK75\_PIG Cofilin, non-muscle isoform OS=Sus  
scrofa OX=9823 GN=CFL1 PE=1 SV=3



0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 3,4 3,4 3,4  
 82,219 0 7,3084 49288000 4 A0A5G2RJW0;A0A287B571;A0A286ZVF6;F1S4E0  
 A0A5G2RJW0;A0A287B571;A0A286ZVF6;F1S4E0 141 tr|A0A5G2RJW0|A0A5G2RJW0\_PIG  
 GB1/RHD3-type G domain-containing protein OS=Sus scrofa OX=9823 GN=LOC102161784 PE=1  
 SV=1;tr|A0A287B571|A0A287B571\_PIG GB1/RHD3-type G domain-containing protein OS=Sus  
 scrofa OX=9823 GN=LOC102161784 PE=1 SV=2;tr|A0A286ZVF6|A0A2  
 41056000 9863100 17930000 50323000 14676000 16393000 51109000 7965300 10906000 23269000  
 9483200 15941000 5 5 5 10,5 10,5 10,5 50,099 0 10,69  
 623510000 24 I3LS26;F1SU97;A0A287A0D2;A0A286ZVG0  
 I3LS26;F1SU97;A0A287A0D2;A0A286ZVG0 142 tr|I3LS26|I3LS26\_PIG Prosaposin OS=Sus  
 scrofa OX=9823 GN=PSAP PE=1 SV=2;tr|F1SU97|F1SU97\_PIG Prosaposin OS=Sus scrofa OX=9823  
 GN=PSAP PE=1 SV=2;tr|A0A287A0D2|A0A287A0D2\_PIG Prosaposin OS=Sus scrofa OX=9823  
 GN=PSAP PE=1 SV=2;tr|A0A286ZVG0|A0A286ZVG0\_PIG Sap  
 38659000 0 25753000 41602000 0 0 49581000 0 0 44990000 0 23718000  
 3 3 2 47,7 47,7 31,8 5,0526 0 17,598 537020000 27  
 Q95274;A0A286ZVG3;CON\_\_P21752;A0A5S6G4N7 Q95274;A0A286ZVG3 143  
 sp|Q95274|TYB4\_PIG Thymosin beta-4 OS=Sus scrofa OX=9823 GN=TMSB4 PE=3  
 SV=3;tr|A0A286ZVG3|A0A286ZVG3\_PIG Thymosin beta OS=Sus scrofa OX=9823  
 GN=LOC110257905 PE=3 SV=1  
 3550200000 1010900000 607790000 2726700000 911840000 1306500000 2132100000  
 1507400000 834400000 1390900000 850510000 297060000 13 13  
 2 71,7 71,7 14,1 20,632 0 201,11 70407000000 1028 A0A287BJF1;A0A286ZVM3  
 A0A287BJF1;A0A286ZVM3 144 tr|A0A287BJF1|A0A287BJF1\_PIG Myosin light chain 1  
 OS=Sus scrofa OX=9823 GN=MYL1 PE=1 SV=2;tr|A0A286ZVM3|A0A286ZVM3\_PIG Myosin light  
 chain 1 OS=Sus scrofa OX=9823 GN=MYL1 PE=1 SV=2  
 8092000 7334900 42246000 12132000 15638000 31055000 0 0 17183000 11202000 0 49837000  
 4 4 1 10,2 10,2 3,1 45,755 0 10,293 550310000 30  
 A0A286ZVQ0;A0A287BCT2;A0A287B5Z7 A0A286ZVQ0;A0A287BCT2;A0A287B5Z7 145  
 tr|A0A286ZVQ0|A0A286ZVQ0\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
 GN=ACOT4 PE=1 SV=2;tr|A0A287BCT2|A0A287BCT2\_PIG Uncharacterized protein OS=Sus scrofa  
 OX=9823 GN=ACOT4 PE=1 SV=1;tr|A0A287B5Z7|A0A287B5Z7\_PIG Uncharacterized protein  
 OS=Sus scrofa O  
 7721300 3962100 4896700 0 3196200 2832300 0 0 3121100 2446200 0 3022700  
 5 5 5 13 13 13 41,713 0 6,6387 93911000 8  
 F1RZH8;I3LG37;A0A286ZVT0;A0A287BL28;A0A5G2QKP1;A0A287B9F9;A0A287A8V7;A0A5G  
 2QGC9  
 F1RZH8;I3LG37;A0A286ZVT0;A0A287BL28;A0A5G2QKP1;A0A287B9F9;A0A287A8V7;A0A5G  
 2QGC9 146 tr|F1RZH8|F1RZH8\_PIG Endoplasmic reticulum junction formation protein lunapark  
 OS=Sus scrofa OX=9823 GN=LNPK PE=1 SV=3;tr|I3LG37|I3LG37\_PIG Endoplasmic reticulum  
 junction formation protein lunapark OS=Sus scrofa OX=9823 GN=LNPK PE=1  
 SV=2;tr|A0A286ZVT0|A0A2  
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 3,2 3,2 3,2  
 55,417 0 4,2113 49151000 2

A0A287A8H1;A0A287A4Y0;A0A287B231;A0A286ZWA5;A0A287AYH3  
 A0A287A8H1;A0A287A4Y0;A0A287B231;A0A286ZWA5;A0A287AYH3 147  
 tr|A0A287A8H1|A0A287A8H1\_PIG Ubiquilin 1 OS=Sus scrofa OX=9823 GN=UBQLN1 PE=1  
 SV=2;tr|A0A287A4Y0|A0A287A4Y0\_PIG Ubiquilin 1 OS=Sus scrofa OX=9823 GN=UBQLN1 PE=1  
 SV=1;tr|A0A287B231|A0A287B231\_PIG Ubiquilin 1 OS=Sus scrofa OX=9823 GN=UBQLN1 PE=1  
 SV=2;tr|A0A2  
 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 3,1 3,1 3,1  
 72,165 0,0030426 1,7643 11290000 3 A0A286ZWG1;I3L829;A0A287B880  
 A0A286ZWG1;I3L829;A0A287B880 148 tr|A0A286ZWG1|A0A286ZWG1\_PIG NPL4  
 homolog, ubiquitin recognition factor OS=Sus scrofa OX=9823 GN=NPLOC4 PE=1  
 SV=2;tr|I3L829|I3L829\_PIG NPL4 homolog, ubiquitin recognition factor OS=Sus scrofa OX=9823  
 GN=NPLOC4 PE=1 SV=3;tr|A0A287B880|A0A287B880\_PIG NPL4 ho  
 993890000 2989400000 1206400000 1417500000 1086300000 968170000 1248900000  
 2792200000 1736600000 969440000 1979100000 1061300000 9 2  
 2 20,9 7,1 7,1 39,376 0 169,95 39641000000 415  
 A0A286ZWI1;A0A287B8Z2;F1RJ25;A0A286ZC9;A0A286ZTA4;A0A5G2RHD6  
 A0A286ZWI1;A0A287B8Z2 149 tr|A0A286ZWI1|A0A286ZWI1\_PIG Fructose-bisphosphate  
 aldolase OS=Sus scrofa OX=9823 GN=ALDOC PE=1 SV=1;tr|A0A287B8Z2|A0A287B8Z2\_PIG  
 Fructose-bisphosphate aldolase OS=Sus scrofa OX=9823 GN=ALDOC PE=1 SV=1  
 8249400 0 21457000 0 0 7779800 7234500 0 0 0 0 11138000 4  
 4 4 11,8 11,8 11,8 41,708 0 8,2714 151440000 8  
 F1SFR6;A0A287BA45;A0A287ABW8;P53590;A0A286ZWJ9  
 F1SFR6;A0A287BA45;A0A287ABW8;P53590;A0A286ZWJ9 150 tr|F1SFR6|F1SFR6\_PIG  
 Succinate--CoA ligase [GDP-forming] subunit beta, mitochondrial OS=Sus scrofa OX=9823  
 GN=SUCLG2 PE=4 SV=4;tr|A0A287BA45|A0A287BA45\_PIG Succinate--CoA ligase [GDP-forming]  
 subunit beta, mitochondrial OS=Sus scrofa OX=9823 GN=SUCLG2 PE=3  
 219450000 178880000 142650000 444690000 198600000 194750000 479170000  
 246290000 213440000 338200000 238880000 225350000 25 25  
 21 37,1 37,1 33 71,881 0 276,98 25832000000 564  
 F1S9Q3;F1S9Q1;A0A286ZWK2;A0A286ZPN4;A0A286ZPC8;A0A287APM9  
 F1S9Q3;F1S9Q1;A0A286ZWK2;A0A286ZPN4;A0A286ZPC8;A0A287APM9 151  
 tr|F1S9Q3|F1S9Q3\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 GN=HSPA8 PE=1  
 SV=3;tr|F1S9Q1|F1S9Q1\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 GN=HSPA8 PE=1  
 SV=4;tr|A0A286ZWK2|A0A286ZWK2\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
 GN=HSPA8  
 5357400 7124100 0 0 6301900 7805200 0 6759700 7612100 0 5020000 0  
 3 3 3 5,1 5,1 5,1 67,583 0 5,4663 79158000 17 F1SUR3;A0A286ZWR7  
 F1SUR3;A0A286ZWR7 152 tr|F1SUR3|F1SUR3\_PIG Phosphoglucomutase 2 like 1 OS=Sus  
 scrofa OX=9823 GN=PGM2L1 PE=1 SV=3;tr|A0A286ZWR7|A0A286ZWR7\_PIG  
 Phosphoglucomutase 2 like 1 OS=Sus scrofa OX=9823 GN=PGM2L1 PE=1 SV=1  
 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 20,5 20,5 20,5  
 9,5346 0,0049801 1,6157 10984000 3 A0A5G2QTG5;A0A286ZWS0  
 A0A5G2QTG5;A0A286ZWS0 153 tr|A0A5G2QTG5|A0A5G2QTG5\_PIG SH3 domain

binding glutamate rich protein like 3 OS=Sus scrofa OX=9823 GN=SH3BGRL3 PE=1 SV=1;tr|A0A286ZWS0|A0A286ZWS0\_PIG SH3 domain-binding glutamic acid-rich-like protein OS=Sus scrofa OX=9823 GN=SH3BGRL3 PE=1 SV=1

15212000 14457000 0 0 8380200 0 9664000 0 0 0 0 0 3 3

3 11 11 11 32,315 0 9,1689 117710000 9

A0A5G2R9R8;A0A286ZWU9;F1RJI1;A0A5G2RBB7

A0A5G2R9R8;A0A286ZWU9;F1RJI1;A0A5G2RBB7 154 tr|A0A5G2R9R8|A0A5G2R9R8\_PIG

Malectin domain-containing protein OS=Sus scrofa OX=9823 GN=CABP1 PE=1 SV=1;tr|A0A286ZWU9|A0A286ZWU9\_PIG Malectin domain-containing protein OS=Sus scrofa OX=9823 GN=CABP1 PE=1 SV=1;tr|F1RJI1|F1RJI1\_PIG Uncharacterized protein O

11407000 5941500 7877700 16275000 7320600 8384100 20595000 4768600 6593500 22456000

8001100 10161000 4 4 4 13 13 13 37,294 0 13,281

335660000 19 P00795;A0A286ZX26 P00795;A0A286ZX26 155 sp|P00795|CATD\_PIG

Cathepsin D OS=Sus scrofa OX=9823 GN=CTSD PE=1 SV=2;tr|A0A286ZX26|A0A286ZX26\_PIG

Cathepsin D OS=Sus scrofa OX=9823 GN=CTSD PE=1 SV=2

12347000 9113900 8283400 17642000 9265300 10991000 10924000 11765000 14125000 15743000

10124000 7009700 5 5 5 36,8 36,8 36,8 14,984 0 7,5291

275260000 24 Q29308;F1RGG1;A0A286ZX70;I3LQK3 Q29308;F1RGG1;A0A286ZX70

156 sp|Q29308|RS19\_PIG 40S ribosomal protein S19 (Fragment) OS=Sus scrofa OX=9823 GN=RPS19 PE=2 SV=3;tr|F1RGG1|F1RGG1\_PIG 40S ribosomal protein S19 OS=Sus scrofa OX=9823 GN=RPS19 PE=1 SV=3;tr|A0A286ZX70|A0A286ZX70\_PIG 40S ribosomal protein S19 OS=Sus scrofa OX

52326000 38968000 56237000 70390000 44771000 55976000 78448000 35728000 46392000 80142000

46901000 53248000 6 6 6 60,7 60,7 60,7 13,374 0 32,296

242140000 72 A0A286ZXA4 A0A286ZXA4 157 tr|A0A286ZXA4|A0A286ZXA4\_PIG

Uncharacterized protein OS=Sus scrofa OX=9823 GN=AAMDC PE=1 SV=1

8447500 0 4594600 12252000 4457700 7310300 11838000 0 4575100 12298000 0 8893800

12 12 12 7,4 7,4 7,4 228,62 0 68,474 350480000 37

A0A287B5L5;A0A287A4H3;A0A287BBL5;A0A287BPN0;A0A287AY86;A0A287BAB8;A0A286Z XD9;A0A287A3X7;I3L806

A0A287B5L5;A0A287A4H3;A0A287BBL5;A0A287BPN0;A0A287AY86;A0A287BAB8;A0A286Z XD9;A0A287A3X7;I3L806 158 tr|A0A287B5L5|A0A287B5L5\_PIG Microtubule-associated protein OS=Sus scrofa OX=9823 GN=MAP4 PE=1 SV=2;tr|A0A287A4H3|A0A287A4H3\_PIG Microtubule-associated protein OS=Sus scrofa OX=9823 GN=MAP4 PE=1 SV=2;tr|A0A287BBL5|A0A287BBL5\_PIG Microtubule-associated prot

159650000 370500000 591770000 209820000 620730000 708620000 232300000

287570000 445760000 184600000 463780000 1058600000 6 6

6 14 14 14 53,631 0 22,582 6510900000 30 A0A286ZXF1 A0A286ZXF1 159

tr|A0A286ZXF1|A0A286ZXF1\_PIG Cytochrome-b5 reductase OS=Sus scrofa OX=9823 GN=CYP5R1 PE=1 SV=1

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 3,1 3,1 3,1

43,612 0 5,6012 14360000 2 F1SFE6;A0A286ZXG4;A0A287BG14

F1SFE6;A0A286ZXG4;A0A287BG14 160 tr|F1SFE6|F1SFE6\_PIG Proteasome 26S subunit,

ATPase 6 OS=Sus scrofa OX=9823 GN=PSMC6 PE=1 SV=3;tr|A0A286ZXG4|A0A286ZXG4\_PIG  
Proteasome 26S subunit, ATPase 6 OS=Sus scrofa OX=9823 GN=PSMC6 PE=1  
SV=2;tr|A0A287BG14|A0A287BG14\_PIG Proteasome 26S subunit, ATPas  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1,3 1,3 1,3  
92,419 0,0031283 1,9232 3669600 1 A0A287AKX9;A0A286ZXI4  
A0A287AKX9;A0A286ZXI4 161 tr|A0A287AKX9|A0A287AKX9\_PIG Uncharacterized protein  
OS=Sus scrofa OX=9823 PE=4 SV=1;tr|A0A286ZXI4|A0A286ZXI4\_PIG Uncharacterized protein  
OS=Sus scrofa OX=9823 PE=4 SV=1  
14728000 13120000 8658600 18047000 7505200 15393000 21857000 10198000 13626000 19396000  
7315200 7241500 9 9 4 20,4 20,4 10,2 56,393 0 16,117  
51628000 35  
A0A286ZXJ6;A0A287BDA6;F1S100;A0A5G2QSM3;A0A5G2R911;A0A5G2QAP9  
A0A286ZXJ6;A0A287BDA6;F1S100;A0A5G2QSM3;A0A5G2R911;A0A5G2QAP9 162  
tr|A0A286ZXJ6|A0A286ZXJ6\_PIG Serine/threonine-protein phosphatase OS=Sus scrofa  
OX=9823 GN=PPP3CA PE=1 SV=2;tr|A0A287BDA6|A0A287BDA6\_PIG Serine/threonine-protein  
phosphatase OS=Sus scrofa OX=9823 GN=PPP3CA PE=1 SV=1;tr|F1S100|F1S100\_PIG  
Serine/threonine-pr  
0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 1,5 1,5 1,5  
243,69 0 2,9931 0 3  
A0A287B1J4;F1RR78;A0A287AMR4;A0A287BJQ1;A0A286ZXS0  
A0A287B1J4;F1RR78;A0A287AMR4;A0A287BJQ1;A0A286ZXS0 163  
tr|A0A287B1J4|A0A287B1J4\_PIG Spectrin alpha, non-erythrocytic 1 OS=Sus scrofa OX=9823  
GN=SPTAN1 PE=1 SV=2;tr|F1RR78|F1RR78\_PIG Spectrin alpha, non-erythrocytic 1 OS=Sus scrofa  
OX=9823 GN=SPTAN1 PE=1 SV=4;tr|A0A287AMR4|A0A287AMR4\_PIG Spectrin alpha, non-ery  
0 0 0 0 0 0 0 0 0 0 0 0 10 5 5 4,1 2,4 2,4  
281,07 0 10,584 28552000 5  
A0A286ZXU2;A0A287A5T4;A0A287A4W0;A0A287AW81  
A0A286ZXU2;A0A287A5T4;A0A287A4W0;A0A287AW81 164  
tr|A0A286ZXU2|A0A286ZXU2\_PIG Filamin A OS=Sus scrofa OX=9823 GN=FLNA PE=1  
SV=2;tr|A0A287A5T4|A0A287A5T4\_PIG Filamin A OS=Sus scrofa OX=9823 GN=FLNA PE=1  
SV=1;tr|A0A287A4W0|A0A287A4W0\_PIG Filamin A OS=Sus scrofa OX=9823 GN=FLNA PE=1  
SV=1;tr|A0A287AW81|A0A28  
26240000 10905000 17174000 0 10555000 14471000 10094000 11280000 12113000 17331000 8369200  
16374000 4 4 4 10,2 10,2 10,2 45,515 0 9,6251 52121000 27  
A0A286ZXU8;A0A287B283 A0A286ZXU8;A0A287B283 165  
tr|A0A286ZXU8|A0A286ZXU8\_PIG LanC like 1 OS=Sus scrofa OX=9823 GN=LANCL1 PE=1  
SV=1;tr|A0A287B283|A0A287B283\_PIG LanC like 1 OS=Sus scrofa OX=9823 GN=LANCL1 PE=1  
SV=2  
19179000 15886000 19840000 8795000 9343400 16026000 11941000 7763700 6883400 8855600  
8238600 5878900 4 4 4 13 13 13 40,614 0 10,696  
305930000 19 A0A286ZY32;A0A287AZ05 A0A286ZY32;A0A287AZ05 166  
tr|A0A286ZY32|A0A286ZY32\_PIG Muscle-restricted coiled-coil protein OS=Sus scrofa

OX=9823 GN=CAVIN4 PE=1 SV=1;tr|A0A287AZ05|A0A287AZ05\_PIG Muscle-restricted coiled-coil protein OS=Sus scrofa OX=9823 GN=CAVIN4 PE=1 SV=1

0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1,1 1,1 1,1  
120,94 0 3,1498 0 2 A0A5G2QFV1;A0A287AHE4;A0A5G2RFV8;A0A286ZY33  
A0A5G2QFV1;A0A287AHE4;A0A5G2RFV8;A0A286ZY33 167

tr|A0A5G2QFV1|A0A5G2QFV1\_PIG Integrin subunit alpha 7 OS=Sus scrofa OX=9823  
GN=ITGA7 PE=3 SV=1;tr|A0A287AHE4|A0A287AHE4\_PIG Integrin subunit alpha 7 OS=Sus scrofa  
OX=9823 GN=ITGA7 PE=3 SV=2;tr|A0A5G2RFV8|A0A5G2RFV8\_PIG Integrin subunit alpha 7  
OS=Sus scrofa

0 0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 4,4 4,4 4,4  
90,885 0 19,93 128350000 10  
A0A286ZY59;Q29243;A0A2C9F3F8;A0A287BAM0;A0A287BBR1  
A0A286ZY59;Q29243;A0A2C9F3F8;A0A287BAM0;A0A287BBR1 168

tr|A0A286ZY59|A0A286ZY59\_PIG Alpha-dystroglycan OS=Sus scrofa OX=9823 GN=DAG1  
PE=1 SV=1;sp|Q29243|DAG1\_PIG Dystroglycan 1 OS=Sus scrofa OX=9823 GN=DAG1 PE=2  
SV=2;tr|A0A2C9F3F8|A0A2C9F3F8\_PIG Alpha-dystroglycan OS=Sus scrofa OX=9823 GN=DAG1  
PE=1 SV=2;tr|A0A

63985000 130990000 341790000 61061000 239740000 275310000 37066000 131200000  
207870000 62079000 148060000 464180000 18 18 16 44,2 44,2 40,4  
47,526 0 246,91 15434000000 312 P33198;A0A287BL23;A0A286ZYE6;F1SK00

P33198;A0A287BL23;A0A286ZYE6 169 sp|P33198|IDHP\_PIG Isocitrate dehydrogenase  
[NADP], mitochondrial (Fragment) OS=Sus scrofa OX=9823 GN=IDH2 PE=1  
SV=1;tr|A0A287BL23|A0A287BL23\_PIG Isocitrate dehydrogenase [NADP] OS=Sus scrofa OX=9823  
GN=IDH2 PE=3 SV=1;tr|A0A286ZYE6|A0A286ZYE6\_PIG Isocitrat

146410000 54316000 133020000 273740000 129030000 128270000 243650000  
59851000 96355000 282460000 120210000 220350000 2 2 2 13,7  
13,7 13,7 17,475 0 10,842 3501300000 49 A0A286ZYL7;A0A5G2RN51

A0A286ZYL7;A0A5G2RN51170 tr|A0A286ZYL7|A0A286ZYL7\_PIG ATP synthase F1 subunit  
delta OS=Sus scrofa OX=9823 GN=ATP5F1D PE=1 SV=1;tr|A0A5G2RN51|A0A5G2RN51\_PIG ATP  
synthase F1 subunit delta OS=Sus scrofa OX=9823 GN=ATP5F1D PE=1 SV=1

81657000 71602000 151980000 131910000 164460000 158720000 105840000 78195000  
99407000 119950000 170770000 294370000 8 8 8 33,8 33,8 33,8  
22,169 0 71,237 5792100000 129

A0A5G2R4S0;A0A5G2RAC9;A0A5G2R1V1;A0A286ZYM6  
A0A5G2R4S0;A0A5G2RAC9;A0A5G2R1V1;A0A286ZYM6 171

tr|A0A5G2R4S0|A0A5G2R4S0\_PIG ATP synthase subunit b OS=Sus scrofa OX=9823  
GN=ATP5PB PE=1 SV=1;tr|A0A5G2RAC9|A0A5G2RAC9\_PIG ATP synthase subunit b OS=Sus  
scrofa OX=9823 GN=ATP5PB PE=1 SV=1;tr|A0A5G2R1V1|A0A5G2R1V1\_PIG ATP synthase subunit  
b OS=Sus scrofa OX

0 0 0 6313100 0 0 8208300 0 0 3543700 0 0 3 3 3  
5,1 5,1 5,1 70,203 0 2,919 49588000 11  
A0A286ZYQ4;A0A287ANV7;F1RK02;A0A5K1TXL2;K7GQS5;F1RWT2;A0A5K1TXL1  
A0A286ZYQ4;A0A287ANV7;F1RK02;A0A5K1TXL2;K7GQS5;F1RWT2;A0A5K1TXL1 172

tr|A0A286ZYQ4|A0A286ZYQ4\_PIG Lymphocyte cytosolic protein 1 OS=Sus scrofa OX=9823  
GN=LCP1 PE=1 SV=1;tr|A0A287ANV7|A0A287ANV7\_PIG Lymphocyte cytosolic protein 1 OS=Sus  
scrofa OX=9823 GN=LCP1 PE=1 SV=1;tr|F1RK02|F1RK02\_PIG Lymphocyte cytosolic protein 1 OS=S  
7675000 5267200 6874000 0 0 4843100 0 0 4880000 4736500 0 0  
6 6 6 17,6 17,6 17,6 38,044 0 11,828 111480000 12  
F1SPH1;A0A286ZYQ6;I3LVF5;A0A287ACW2 F1SPH1;A0A286ZYQ6 173  
tr|F1SPH1|F1SPH1\_PIG Peptidase\_M24 domain-containing protein OS=Sus scrofa OX=9823  
GN=PA2G4 PE=1 SV=3;tr|A0A286ZYQ6|A0A286ZYQ6\_PIG Peptidase\_M24 domain-containing  
protein OS=Sus scrofa OX=9823 GN=PA2G4 PE=1 SV=1  
0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 3,2 3,2 3,2  
53,499 0,0059113 1,5227 14828000 3 A0A286ZYS2 A0A286ZYS2 174  
tr|A0A286ZYS2|A0A286ZYS2\_PIG Aspartate--tRNA ligase, cytoplasmic OS=Sus scrofa  
OX=9823 GN=DARS1 PE=1 SV=1  
21037000 6842600 8385700 11997000 10574000 0 27091000 3982700 5470500 13326000 4045500  
8691900 15 15 15 5,2 5,2 5,2 437,21 0 54,849 404040000 47  
I3LPD6;A0A286ZYS8 I3LPD6;A0A286ZYS8 175 tr|I3LPD6|I3LPD6\_PIG Cardiomyopathy  
associated 5 OS=Sus scrofa OX=9823 GN=CMYA5 PE=1 SV=2;tr|A0A286ZYS8|A0A286ZYS8\_PIG  
Cardiomyopathy associated 5 OS=Sus scrofa OX=9823 GN=CMYA5 PE=1 SV=2  
6312500000 13643000000 5917400000 8526600000 11822000000 7750800000 9800700000  
11480000000 7806100000 4486700000 10841000000 4724100000 28 28  
3 67,1 67,1 10,6 39,817 0 323,31 780680000000 2790 A0A286ZYX8 A0A286ZYX8 176  
tr|A0A286ZYX8|A0A286ZYX8\_PIG Fructose-bisphosphate aldolase OS=Sus scrofa OX=9823  
GN=ALDOA PE=1 SV=2  
0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 5,4 5,4 5,4  
36,271 0,0030801 1,8302 25304000 5  
A0A286ZZ18;A0A287B1J8;F1S3B4;A0A287A426;A0A287BIE8  
A0A286ZZ18;A0A287B1J8;F1S3B4;A0A287A426;A0A287BIE8 177  
tr|A0A286ZZ18|A0A286ZZ18\_PIG IST1 homolog OS=Sus scrofa OX=9823 GN=IST1 PE=1  
SV=1;tr|A0A287B1J8|A0A287B1J8\_PIG IST1 homolog OS=Sus scrofa OX=9823 GN=IST1 PE=1  
SV=1;tr|F1S3B4|F1S3B4\_PIG IST1 homolog OS=Sus scrofa OX=9823 GN=IST1 PE=1  
SV=3;tr|A0A287A426|A0A2  
37718000 16987000 47200000 57983000 39432000 44582000 58587000 19371000 32429000 65669000  
29354000 58956000 6 6 6 31,2 31,2 31,2 26,019 0 26,752  
1566300000 52 F6PVY0;A0A286ZZ87 F6PVY0;A0A286ZZ87 178  
tr|F6PVY0|F6PVY0\_PIG Fatty acid binding protein 5 OS=Sus scrofa OX=9823 GN=FABP5 PE=1  
SV=1;tr|A0A286ZZ87|A0A286ZZ87\_PIG Fatty acid binding protein 5 OS=Sus scrofa OX=9823  
GN=FABP5 PE=1 SV=1  
34564000 37404000 54721000 10311000 12992000 22995000 6756300 7609200 8315100 9362800  
9754500 11427000 9 9 9 20,3 20,3 20,3 50,365 0 28,184  
784490000 26 A0A286ZZ97;A0A287A2G4 A0A286ZZ97;A0A287A2G4 179  
tr|A0A286ZZ97|A0A286ZZ97\_PIG Caveolae associated protein 1 OS=Sus scrofa OX=9823  
GN=CAVIN1 PE=3 SV=1;tr|A0A287A2G4|A0A287A2G4\_PIG Caveolae associated protein 1 OS=Sus  
scrofa OX=9823 GN=CAVIN1 PE=3 SV=1

0 0 0 0 0 0 0 0 0 0 0 0 0 4 1 1 19,3 4,3 4,3  
 21,026 0,0086789 1,4055 280710000 11 A0A286ZZB7;F6PYW2;P06348  
 A0A286ZZB7;F6PYW2 180 tr|A0A286ZZB7|A0A286ZZB7\_PIG H1.4 linker histone, cluster  
 member OS=Sus scrofa OX=9823 GN=H1-4 PE=3 SV=2;tr|F6PYW2|F6PYW2\_PIG H1.3 linker histone,  
 cluster member OS=Sus scrofa OX=9823 GN=H1-3 PE=1 SV=1  
 0 0 13239000 0 0 8653900 0 0 0 0 0 10602000 3 3 3  
 10,3 10,3 10,3 32,915 0 9,5542 45933000 9 A0A286ZZC3;A0A5G2QRC2;F1S2X3  
 A0A286ZZC3;A0A5G2QRC2;F1S2X3 181 tr|A0A286ZZC3|A0A286ZZC3\_PIG Ethylmalonyl-  
 CoA decarboxylase 1 OS=Sus scrofa OX=9823 GN=ECHDC1 PE=1  
 SV=1;tr|A0A5G2QRC2|A0A5G2QRC2\_PIG Ethylmalonyl-CoA decarboxylase 1 OS=Sus scrofa  
 OX=9823 GN=ECHDC1 PE=1 SV=1;tr|F1S2X3|F1S2X3\_PIG Ethylmalonyl-CoA decarboxyl  
 5484900 0 8043000 0 0 0 0 0 7511800 6270600 0 0 2 2  
 2 18,7 18,7 18,7 14,078 0 3,6846 93516000 12 A0A286ZZM7;A0A5G2QQH2  
 A0A286ZZM7;A0A5G2QQH2 182 tr|A0A286ZZM7|A0A286ZZM7\_PIG Thioredoxin  
 domain-containing protein 17 OS=Sus scrofa OX=9823 GN=TXNDC17 PE=1  
 SV=1;tr|A0A5G2QQH2|A0A5G2QQH2\_PIG Thioredoxin domain-containing protein 17 OS=Sus  
 scrofa OX=9823 GN=TXNDC17 PE=1 SV=1  
 0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 11,3 11,3 11,3  
 33,138 0 8,6023 29656000 8 A0A5G2QPY2;A0A287A1V9;A0A286ZZM8  
 A0A5G2QPY2;A0A287A1V9;A0A286ZZM8 183 tr|A0A5G2QPY2|A0A5G2QPY2\_PIG  
 Dehydrogenase/reductase 7B OS=Sus scrofa OX=9823 GN=DHRS7B PE=3  
 SV=1;tr|A0A287A1V9|A0A287A1V9\_PIG Dehydrogenase/reductase 7B OS=Sus scrofa OX=9823  
 GN=DHRS7B PE=3 SV=2;tr|A0A286ZZM8|A0A286ZZM8\_PIG Dehydrogenase/reductase 7B OS=S  
 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 6,5 6,5 6,5  
 48,909 0 3,6175 0 3 A0A286ZZV4;A0A287A7Q7 A0A286ZZV4;A0A287A7Q7 184  
 tr|A0A286ZZV4|A0A286ZZV4\_PIG Eukaryotic translation initiation factor 5 OS=Sus scrofa  
 OX=9823 GN=EIF5 PE=3 SV=1;tr|A0A287A7Q7|A0A287A7Q7\_PIG Eukaryotic translation initiation  
 factor 5 OS=Sus scrofa OX=9823 GN=EIF5 PE=3 SV=1  
 20305000 10322000 11784000 18557000 11047000 16027000 18491000 6825100 12348000 13850000  
 10842000 14940000 3 3 2 14,4 14,4 10,9 32,694 0 27,85  
 487580000 27 F1SQ46;A0A286ZZW7;I3LQF8;A0A5G2QPK7  
 F1SQ46;A0A286ZZW7;I3LQF8;A0A5G2QPK7 185 tr|F1SQ46|F1SQ46\_PIG Y-box binding  
 protein 3 OS=Sus scrofa OX=9823 GN=YBX3 PE=1 SV=2;tr|A0A286ZZW7|A0A286ZZW7\_PIG Y-box  
 binding protein 3 OS=Sus scrofa OX=9823 GN=YBX3 PE=1 SV=1;tr|I3LQF8|I3LQF8\_PIG Y-box  
 binding protein 3 OS=Sus scrofa OX=9823 GN=YBX3 PE=  
 0 0 0 0 0 0 0 15491000 18388000 0 0 0 2 2 2 20,4  
 20,4 20,4 11,873 0 3,8701 188070000 11 A0A287A021 A0A287A021 186  
 tr|A0A287A021|A0A287A021\_PIG Nuclear transport factor 2 OS=Sus scrofa OX=9823  
 GN=NUTF2 PE=1 SV=1  
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 3,4 3,4 3,4  
 67,603 0,0011574 2,7817 0 1  
 I3LBE2;A0A287AT40;A0A287A456;A0A287AKT7;A0A287A026;A0A5G2QRI8;I3LPP8;A0A287  
 A8X4

I3LBE2;A0A287AT40;A0A287A456;A0A287AKT7;A0A287A026;A0A5G2QRI8;I3LPP8;A0A287  
 A8X4 187 tr|I3LBE2|I3LBE2\_PIG Protein arginine N-methyltransferase 5 OS=Sus scrofa  
 OX=9823 GN=PRMT5 PE=1 SV=1;tr|A0A287AT40|A0A287AT40\_PIG Protein arginine N-  
 methyltransferase 5 OS=Sus scrofa OX=9823 GN=PRMT5 PE=1  
 SV=2;tr|A0A287A456|A0A287A456\_PIG Protein arginine  
 8185100 0 0 25733000 8518300 17335000 17407000 10162000 13204000 26144000 13261000  
 10559000 15 15 15 8,8 8,8 8,8 218,77 0 86,746 523730000 62  
 A0A287A502;A0A287AP44;A0A287A027 A0A287A502;A0A287AP44;A0A287A027 188  
 tr|A0A287A502|A0A287A502\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
 GN=LAMA2 PE=1 SV=1;tr|A0A287AP44|A0A287AP44\_PIG Uncharacterized protein OS=Sus scrofa  
 OX=9823 GN=LAMA2 PE=1 SV=1;tr|A0A287A027|A0A287A027\_PIG Uncharacterized protein  
 OS=Sus scrofa O  
 4559000 0 1427500 21528000 4759300 10822000 14446000 4338300 9061800 19876000 7479200  
 6930000 20 20 20 15,2 15,2 15,2 177,54 0 85,141 845630000 87  
 A0A287A078;F1S663;A0A5G2REQ7 A0A287A078;F1S663 189  
 tr|A0A287A078|A0A287A078\_PIG Laminin subunit gamma 1 OS=Sus scrofa OX=9823  
 GN=LAMC1 PE=1 SV=2;tr|F1S663|F1S663\_PIG Laminin subunit gamma 1 OS=Sus scrofa OX=9823  
 GN=LAMC1 PE=1 SV=3  
 0 0 0 0 0 0 0 0 0 0 0 0 4 4 4 14,6 14,6 14,6  
 36,108 0 7,7508 6468400 4 A0A287A096 A0A287A096 190  
 tr|A0A287A096|A0A287A096\_PIG Eukaryotic translation initiation factor 2 subunit 1 OS=Sus  
 scrofa OX=9823 GN=EIF2S1 PE=1 SV=1  
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 6,1 6,1 6,1  
 20,125 0 3,1047 56491000 7 A0A5G2QLG0;A0A480Q2F5;A0A287A0B5  
 A0A5G2QLG0;A0A480Q2F5;A0A287A0B5191 tr|A0A5G2QLG0|A0A5G2QLG0\_PIG 5-  
 demethoxyubiquinone hydroxylase, mitochondrial OS=Sus scrofa OX=9823 GN=COQ7 PE=3  
 SV=1;tr|A0A480Q2F5|A0A480Q2F5\_PIG 5-demethoxyubiquinone hydroxylase, mitochondrial  
 OS=Sus scrofa OX=9823 GN=COQ7 PE=3 SV=1;tr|A0A287A0B5|A0A287  
 4087900 14571000 25313000 2718100 15566000 35002000 2304000 16446000 28431000 2522200  
 18732000 20483000 7 7 7 14,3 14,3 14,3 56,692 0 17,772  
 744000000 42 F1SRF0;A0A287A0H7 F1SRF0;A0A287A0H7 192 tr|F1SRF0|F1SRF0\_PIG  
 Hedgehog acyltransferase like OS=Sus scrofa OX=9823 GN=HHATL PE=1  
 SV=1;tr|A0A287A0H7|A0A287A0H7\_PIG Hedgehog acyltransferase like OS=Sus scrofa OX=9823  
 GN=HHATL PE=1 SV=1  
 28169000 10581000 14812000 17624000 10188000 16016000 25682000 0 11241000 25147000 9382300  
 7677300 2 2 2 12,9 12,9 12,9 19,3 0 15,517 315650000 25  
 A0A287A0I0;A0A5G2RDF7;A0A5G2QGP8;A0A287ACI6;A0A5G2Q9D7  
 A0A287A0I0;A0A5G2RDF7;A0A5G2QGP8;A0A287ACI6;A0A5G2Q9D7 193  
 tr|A0A287A0I0|A0A287A0I0\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
 GN=PPP3R1 PE=1 SV=2;tr|A0A5G2RDF7|A0A5G2RDF7\_PIG Uncharacterized protein OS=Sus  
 scrofa OX=9823 GN=PPP3R1 PE=1 SV=1;tr|A0A5G2QGP8|A0A5G2QGP8\_PIG Uncharacterized  
 protein OS=Sus scrofa



25198000 20929000 14837000 60801000 26231000 30898000 57165000 21429000 22131000 38897000  
21184000 22538000 25 25 25 40,3 40,3 40,3 62,238 0 47,524  
2901300000 145 A0A287A0Q8;I3LNG8 A0A287A0Q8;I3LNG8 194  
tr|A0A287A0Q8|A0A287A0Q8\_PIG Stress induced phosphoprotein 1 OS=Sus scrofa OX=9823  
GN=STIP1 PE=1 SV=1;tr|I3LNG8|I3LNG8\_PIG Stress induced phosphoprotein 1 OS=Sus scrofa  
OX=9823 GN=STIP1 PE=1 SV=2  
576930 46226000 17811000 0 1016000 0 0 921600 0 0 1245500 710360  
12 12 12 11,3 11,3 11,3 118,43 0 25,616 418970000 24  
A0A287A0V9;F1RP07;A0A287AGE8;A0A287BH45  
A0A287A0V9;F1RP07;A0A287AGE8;A0A287BH45 195 tr|A0A287A0V9|A0A287A0V9\_PIG  
Phosphorylase b kinase regulatory subunit OS=Sus scrofa OX=9823 GN=PHKB PE=1  
SV=2;tr|F1RP07|F1RP07\_PIG Phosphorylase b kinase regulatory subunit OS=Sus scrofa OX=9823  
GN=PHKB PE=1 SV=4;tr|A0A287AGE8|A0A287AGE8\_PIG Phosphorylase  
0 0 0 5775800 0 4287700 4702800 0 6090700 7158500 3264500 0  
2 2 2 2,9 2,9 2,9 101,25 0 5,6454 59203000 6 A0A287A0X6 A0A287A0X6  
196 tr|A0A287A0X6|A0A287A0X6\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 PE=1  
SV=2  
0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 12,8 12,8 12,8  
26,04 0 5,792 6694900 3 A0A287A2E2;A0A287A0X8;A0A287A6C1  
A0A287A2E2;A0A287A0X8;A0A287A6C1 197 tr|A0A287A2E2|A0A287A2E2\_PIG  
Methyltransf\_11 domain-containing protein OS=Sus scrofa OX=9823 PE=4  
SV=2;tr|A0A287A0X8|A0A287A0X8\_PIG Methyltransf\_11 domain-containing protein OS=Sus  
scrofa OX=9823 PE=4 SV=2;tr|A0A287A6C1|A0A287A6C1\_PIG Methyltransf\_11 domai  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 17,9 17,9 17,9  
9,5211 0 5,4661 0 1 A0A287A0Y1;A0A5G2QK10A0A287A0Y1;A0A5G2QK10198  
tr|A0A287A0Y1|A0A287A0Y1\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
GN=PFDN5 PE=1 SV=1;tr|A0A5G2QK10|A0A5G2QK10\_PIG Uncharacterized protein OS=Sus  
scrofa OX=9823 GN=PFDN5 PE=1 SV=1  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 2 2 2  
63,07 0 2,9132 18608000 5 A0A287A133;F1S1X3 A0A287A133;F1S1X3 199  
tr|A0A287A133|A0A287A133\_PIG Asparagine--tRNA ligase OS=Sus scrofa OX=9823  
GN=NARS1 PE=1 SV=1;tr|F1S1X3|F1S1X3\_PIG Asparagine--tRNA ligase OS=Sus scrofa OX=9823  
GN=NARS1 PE=1 SV=3  
0 0 0 0 0 0 0 0 0 0 0 0 2 1 1 24,3 14,8 14,8  
12,532 0 3,0187 17025000 2 A0A287A145;A0A287BI08;P68211;A0A5G2R5M0  
A0A287A145;A0A287BI08;P68211;A0A5G2R5M0 200 tr|A0A287A145|A0A287A145\_PIG  
Alpha-endosulfine OS=Sus scrofa OX=9823 GN=ENSA PE=3 SV=1;tr|A0A287BI08|A0A287BI08\_PIG  
Alpha-endosulfine OS=Sus scrofa OX=9823 GN=ENSA PE=3 SV=1;sp|P68211|ENSA\_PIG Alpha-  
endosulfine OS=Sus scrofa OX=9823 GN=ENSA PE=1 SV=1;tr|A0  
6380200 4409000 6559900 6520300 3399100 5779700 6761500 0 3497600 6305000 4720900  
5786500 4 4 4 16,8 16,8 16,8 32,838 0 14,635 117110000 16  
A0A287A1I0;A0A287BPC7;I3LCJ3;A0A287APY8  
A0A287A1I0;A0A287BPC7;I3LCJ3;A0A287APY8 201 tr|A0A287A1I0|A0A287A1I0\_PIG 5-

nucleotidase OS=Sus scrofa OX=9823 GN=NT5C3A PE=1 SV=1;tr|A0A287BPC7|A0A287BPC7\_PIG  
5-nucleotidase OS=Sus scrofa OX=9823 GN=NT5C3A PE=1 SV=1;tr|I3LCJ3|I3LCJ3\_PIG 5-  
nucleotidase OS=Sus scrofa OX=9823 GN=NT5C3A PE=1 SV=3;tr|  
0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 1,9 1,9 1,9  
138,05 0 11,247 11274000 6 A0A287BLD2;A0A287A1S6;A0A5G2QQE9  
A0A287BLD2;A0A287A1S6;A0A5G2QQE9 202 tr|A0A287BLD2|A0A287BLD2\_PIG  
Collagen type I alpha 1 chain OS=Sus scrofa OX=9823 GN=COL1A1 PE=1  
SV=1;tr|A0A287A1S6|A0A287A1S6\_PIG Collagen alpha-1(I) chain preproprotein OS=Sus scrofa  
OX=9823 GN=COL1A1 PE=1 SV=1;tr|A0A5G2QQE9|A0A5G2QQE9\_PIG Collagen type I  
0 61580000 0 0 0 0 2098900000 304340000 0 16875000 0  
27 2 0 46,1 5,5 0 55,384 0 68,889 3375600000 26  
A0A287A1V5;A0A287BFY0 A0A287A1V5;A0A287BFY0 203  
tr|A0A287A1V5|A0A287A1V5\_PIG Fructose-bisphosphate aldolase OS=Sus scrofa OX=9823  
GN=ALDOA PE=1 SV=2;tr|A0A287BFY0|A0A287BFY0\_PIG Fructose-bisphosphate aldolase OS=Sus  
scrofa OX=9823 GN=ALDOA PE=1 SV=1  
0 0 0 0 0 0 8374100 0 0 8153800 0 0 3 3 3 14,8  
14,8 14,8 31,267 0 4,8005 55982000 8  
F1S8G6;A0A287A1V6;A0A5G2R4Y3;A0A5G2QXK3  
F1S8G6;A0A287A1V6;A0A5G2R4Y3;A0A5G2QXK3 204 tr|F1S8G6|F1S8G6\_PIG Small  
glutamine rich tetratricopeptide repeat containing alpha OS=Sus scrofa OX=9823 GN=SGTA PE=1  
SV=2;tr|A0A287A1V6|A0A287A1V6\_PIG Small glutamine rich tetratricopeptide repeat containing  
alpha OS=Sus scrofa OX=9823 GN=SGTA PE=1 SV=1;  
0 9131700 11613000 0 0 0 0 0 0 0 0 0 5 5 5 11,1  
11,1 11,1 60,952 0 25,529 62381000 9  
A0A287A217;A0A287A275;A0A5G2QGK1;A0A287AGU7;A0A287A6Y9;A0A287AZ37;F2Z5B2;  
P02554;A0A287B5H7;A0A287AHL4;Q767L7;F2Z5K5;A0A5G2QHG1;A0A287A0J1;A0A5G2QJF0;A0  
A287B749;A0A5G2RIM4;F1S6M7;A0A5G2R693;A0A5G2QDX3  
A0A287A217;A0A287A275;A0A5G2QGK1;A0A287AGU7;A0A287A6Y9;A0A287AZ37;F2Z5B2;  
P02554;A0A287B5H7;A0A287AHL4;Q767L7;F2Z5K5;A0A5G2QHG1;A0A287A0J1 205  
tr|A0A287A217|A0A287A217\_PIG Tubulin beta 4B class IVb OS=Sus scrofa OX=9823  
GN=TUBB4B PE=1 SV=2;tr|A0A287A275|A0A287A275\_PIG Tubulin beta chain OS=Sus scrofa  
OX=9823 GN=TUBB4B PE=1 SV=2;tr|A0A5G2QGK1|A0A5G2QGK1\_PIG Tubulin beta chain OS=Sus  
scrofa OX=9823  
0 0 3432600 0 0 3652600 0 0 0 0 0 0 2 2 2 5,9  
5,9 5,9 41,942 0 3,383 20787000 4  
A0A287A248;I3LIW1;A0A287A9G0;A0A287AQ33  
A0A287A248;I3LIW1;A0A287A9G0;A0A287AQ33 206 tr|A0A287A248|A0A287A248\_PIG  
LanC like 2 OS=Sus scrofa OX=9823 GN=LANCL2 PE=1 SV=1;tr|I3LIW1|I3LIW1\_PIG LanC like 2  
OS=Sus scrofa OX=9823 GN=LANCL2 PE=1 SV=2;tr|A0A287A9G0|A0A287A9G0\_PIG LanC like 2  
OS=Sus scrofa OX=9823 GN=LANCL2 PE=1 SV=1;tr|A0A287AQ33|A  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1,9 1,9 1,9  
81,121 0,0049652 1,6025 6083800 5 F1SR61;A0A287A2J9 F1SR61;A0A287A2J9

207 tr|F1SR61|F1SR61\_PIG Cullin 3 OS=Sus scrofa OX=9823 GN=CUL3 PE=1  
SV=3;tr|A0A287A2J9|A0A287A2J9\_PIG Cullin 3 OS=Sus scrofa OX=9823 GN=CUL3 PE=1 SV=2  
0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 9,9 9,9 9,9  
20,702 0 4,158 40964000 3 A0A287A2R1;A0A5G2RFW9  
A0A287A2R1;A0A5G2RFW9 208 tr|A0A287A2R1|A0A287A2R1\_PIG Mesencephalic  
astrocyte derived neurotrophic factor OS=Sus scrofa OX=9823 GN=MANF PE=1  
SV=1;tr|A0A5G2RFW9|A0A5G2RFW9\_PIG Mesencephalic astrocyte derived neurotrophic factor  
OS=Sus scrofa OX=9823 GN=MANF PE=1 SV=1  
214250000 135170000 126910000 45959000 94491000 30804000 90045000 35825000 36973000  
54152000 35856000 61430000 13 10 2 49,4 39,6 8,2 29,174 0 49,011  
505460000 165  
A0A287A2R9;A0A5G2QSR7;A0A5G2QK17;A0A5G2QJ52;A0A5G2Q6S6;A0A5G2QI44  
A0A287A2R9;A0A5G2QSR7;A0A5G2QK17;A0A5G2QJ52 209  
tr|A0A287A2R9|A0A287A2R9\_PIG 14\_3\_3 domain-containing protein OS=Sus scrofa OX=9823  
GN=CRK PE=1 SV=1;tr|A0A5G2QSR7|A0A5G2QSR7\_PIG 14\_3\_3 domain-containing protein  
OS=Sus scrofa OX=9823 GN=CRK PE=1 SV=1;tr|A0A5G2QK17|A0A5G2QK17\_PIG 14\_3\_3 domain-  
containing  
78092000 42851000 116550000 153720000 102540000 99913000 136950000 48076000  
90049000 188400000 114590000 190950000 8 8 8 46 46 46  
18,515 0 18,164 5839700000 86  
A0A287A2Y4;A0A5G2QY12;A0A287B0C3;A0A287B4I0;F1SMF9  
A0A287A2Y4;A0A5G2QY12;A0A287B0C3;A0A287B4I0;F1SMF9 210  
tr|A0A287A2Y4|A0A287A2Y4\_PIG ATP synthase subunit d, mitochondrial OS=Sus scrofa  
OX=9823 GN=ATP5PD PE=1 SV=1;tr|A0A5G2QY12|A0A5G2QY12\_PIG ATP synthase subunit d,  
mitochondrial OS=Sus scrofa OX=9823 GN=ATP5PD PE=1 SV=1;tr|A0A287B0C3|A0A287B0C3\_PIG  
ATP synth  
0 0 8248900 0 0 7222900 0 0 0 0 0 11722000 2 2 2  
4,7 4,7 4,7 45,792 0,0032051 2,0881 54050000 5  
A0A287A310;A0A5G2Q7D1;A0A5G2RBP2;F1SH10;A0A286ZLI9;A0A287AIJ9  
A0A287A310;A0A5G2Q7D1;A0A5G2RBP2;F1SH10;A0A286ZLI9;A0A287AIJ9 211  
tr|A0A287A310|A0A287A310\_PIG Neutral cholesterol ester hydrolase 1 OS=Sus scrofa  
OX=9823 GN=NCEH1 PE=1 SV=1;tr|A0A5G2Q7D1|A0A5G2Q7D1\_PIG Neutral cholesterol ester  
hydrolase 1 OS=Sus scrofa OX=9823 GN=NCEH1 PE=1 SV=1;tr|A0A5G2RBP2|A0A5G2RBP2\_PIG  
Neutral cho  
0 0 0 0 0 0 0 0 0 0 0 0 9 1 1 19 2,7 2,7  
47,861 0,0030581 1,7979 12698000 1  
A0A287A391;A0A288CG57;A0A287BJG5;A0A286ZUI3  
A0A287A391;A0A288CG57;A0A287BJG5;A0A286ZUI3 212  
tr|A0A287A391|A0A287A391\_PIG Elongation factor 1-alpha OS=Sus scrofa OX=9823  
GN=EEF1A1 PE=1 SV=2;tr|A0A288CG57|A0A288CG57\_PIG Elongation factor 1-alpha OS=Sus  
scrofa OX=9823 GN=EEF1A1 PE=1 SV=2;tr|A0A287BJG5|A0A287BJG5\_PIG Elongation factor 1-  
alpha OS=Sus

0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 2,2 2,2 2,2  
 71,43 0,002193 2,2972 5448800 1 F1S458;A0A287A3Q5 F1S458;A0A287A3Q5 213  
 tr|F1S458|F1S458\_PIG Lysine--tRNA ligase OS=Sus scrofa OX=9823 GN=KARS1 PE=1  
 SV=2;tr|A0A287A3Q5|A0A287A3Q5\_PIG Lysine--tRNA ligase OS=Sus scrofa OX=9823 GN=KARS1  
 PE=1 SV=1  
 57111000 0 31524000 0 0 68982000 0 0 56254000 0 29758000 2  
 2 2 15,4 15,4 15,4 17,07 0 18,663 46526000 14  
 A0A287ALJ6;A0A287A3T6;A0A286ZLN6;F1S9H7;A0A5G2R9S9;A0A287BH28  
 A0A287ALJ6;A0A287A3T6;A0A286ZLN6;F1S9H7;A0A5G2R9S9;A0A287BH28 214  
 tr|A0A287ALJ6|A0A287ALJ6\_PIG Ig-like domain-containing protein OS=Sus scrofa OX=9823  
 PE=4 SV=1;tr|A0A287A3T6|A0A287A3T6\_PIG Ig-like domain-containing protein OS=Sus scrofa  
 OX=9823 PE=4 SV=1;tr|A0A286ZLN6|A0A286ZLN6\_PIG Ig-like domain-containing protein OS=  
 4901400 4081800 0 7245000 0 2754600 9251300 3829700 0 7417900 4105300 2839900  
 5 5 5 15,4 15,4 15,4 31,649 0 14,712 155310000 25  
 A0A287A3U6;A0A5G2QCP3;A0A5G2R398;A0A287A424;A0A5G2R6B1  
 A0A287A3U6;A0A5G2QCP3;A0A5G2R398;A0A287A424;A0A5G2R6B1 215  
 tr|A0A287A3U6|A0A287A3U6\_PIG Nitrilase 1 OS=Sus scrofa OX=9823 GN=NIT1 PE=1  
 SV=1;tr|A0A5G2QCP3|A0A5G2QCP3\_PIG Nitrilase 1 OS=Sus scrofa OX=9823 GN=NIT1 PE=1  
 SV=1;tr|A0A5G2R398|A0A5G2R398\_PIG Nitrilase 1 OS=Sus scrofa OX=9823 GN=NIT1 PE=1  
 SV=1;tr|A0A287A424  
 1218400000 867940000 913540000 747020000 820100000 973850000 1047300000  
 677790000 965030000 1454900000 677240000 895840000 20 20  
 9 44,1 44,1 22,8 65,603 0 323,31 45023000000 588  
 A0A287A435;A0A287AM97;A0A286ZWE6;A0A287AYR8;F1SEN8  
 A0A287A435;A0A287AM97;A0A286ZWE6 216 tr|A0A287A435|A0A287A435\_PIG  
 Uncharacterized protein OS=Sus scrofa OX=9823 GN=LDB3 PE=1  
 SV=2;tr|A0A287AM97|A0A287AM97\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
 GN=LDB3 PE=1 SV=1;tr|A0A286ZWE6|A0A286ZWE6\_PIG Uncharacterized protein OS=Sus scrofa  
 OX=  
 0 14726000 20658000 0 13071000 11663000 0 8454500 9946800 0 8578700 18119000  
 2 2 2 6,4 6,4 6,4 41,341 0 5,1752 196620000 11  
 A0A287A487;Q1G1K7;A0A5G2Q9X2 A0A287A487;Q1G1K7;A0A5G2Q9X2 217  
 tr|A0A287A487|A0A287A487\_PIG Isocitrate dehydrogenase [NAD] subunit, mitochondrial  
 OS=Sus scrofa OX=9823 GN=IDH3B PE=1 SV=1;tr|Q1G1K7|Q1G1K7\_PIG Isocitrate dehydrogenase  
 [NAD] subunit, mitochondrial OS=Sus scrofa OX=9823 GN=IDH3B PE=1 SV=1;tr|A0A5G2Q9X2|A0  
 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 11,3 11,3 11,3  
 24,123 0 6,9856 24685000 6 A0A287A4A5;F1SB09;A0A287BEE6  
 A0A287A4A5;F1SB09;A0A287BEE6 218 tr|A0A287A4A5|A0A287A4A5\_PIG SEC22 vesicle-  
 trafficking protein homolog B OS=Sus scrofa OX=9823 GN=SEC22B PE=1  
 SV=1;tr|F1SB09|F1SB09\_PIG SEC22 vesicle-trafficking protein homolog B OS=Sus scrofa OX=9823  
 GN=SEC22B PE=1 SV=1;tr|A0A287BEE6|A0A287BEE6\_PIG SEC22  
 1137600000 360440000 184260000 643220000 232800000 238650000 785560000  
 303290000 259940000 589270000 197780000 78789000 10 10 0

54,1 54,1 0 19,202 0 170,44 1642100000 238 A0A287A4C5 A0A287A4C5 219  
tr|A0A287A4C5|A0A287A4C5\_PIG Troponin C, skeletal muscle OS=Sus scrofa OX=9823  
GN=TNNC2 PE=1 SV=1  
11015000 0 7111000 9219200 10446000 11597000 15761000 0 7838300 13428000 7050300  
9848600 6 6 6 15,8 15,8 15,8 49,39 0 9,5903 187990000 25  
I3L8U8;A0A287A4K2;A0A287BRS1 I3L8U8;A0A287A4K2;A0A287BRS1 220  
tr|I3L8U8|I3L8U8\_PIG Secernin 3 OS=Sus scrofa OX=9823 GN=SCRN3 PE=1  
SV=3;tr|A0A287A4K2|A0A287A4K2\_PIG Secernin 3 OS=Sus scrofa OX=9823 GN=SCRN3 PE=1  
SV=1;tr|A0A287BRS1|A0A287BRS1\_PIG Secernin 3 OS=Sus scrofa OX=9823 GN=SCRN3 PE=1 SV=1  
19442000 18204000 38064000 29820000 32006000 35780000 19256000 23041000 36215000 36227000  
39401000 73610000 11 11 11 44,8 44,8 44,8 32,552 0 79,002  
2467300000 122  
A0A5G2QVH9;F1SJX1;A0A287A4T2;A0A5G2QRE7;A0A5G2QT70;A0A5G2QQV0;A0A286ZRJ  
3;A0A5G2QUW1;A0A5G2QKZ3;A0A287AY35  
A0A5G2QVH9;F1SJX1;A0A287A4T2;A0A5G2QRE7;A0A5G2QT70;A0A5G2QQV0;A0A286ZRJ  
3;A0A5G2QUW1;A0A5G2QKZ3;A0A287AY35 221 tr|A0A5G2QVH9|A0A5G2QVH9\_PIG Electron  
transfer flavoprotein subunit alpha OS=Sus scrofa OX=9823 GN=ETFA PE=1  
SV=1;tr|F1SJX1|F1SJX1\_PIG Electron transfer flavoprotein subunit alpha OS=Sus scrofa OX=9823  
GN=ETFA PE=1 SV=2;tr|A0A287A4T2|A0A287A4T2\_PIG Electro  
7918300 0 0 16209000 0 3804100 13806000 7086200 4836500 12136000 0 3643200  
3 3 3 15,3 15,3 15,3 24,132 0 6,6768 150250000 12  
A0A287A4W6;A0A5G2QNH8;A0A287BED8 A0A287A4W6;A0A5G2QNH8 222  
tr|A0A287A4W6|A0A287A4W6\_PIG Ras-related protein Rab-21 OS=Sus scrofa OX=9823  
GN=TMEM19 PE=1 SV=1;tr|A0A5G2QNH8|A0A5G2QNH8\_PIG Ras-related protein Rab-21 OS=Sus  
scrofa OX=9823 GN=TMEM19 PE=1 SV=1  
238860000 84042000 209630000 307170000 52963000 423060000 334630000 71078000  
221630000 362350000 94555000 213970000 6 6 6 34,1 34,1 34,1  
24,721 0 233,95 5767800000 114  
A0A287A4Y3;F1STC5;A0A287B5G0;F1STC2;A0A286ZQQ8;A0A287ARL5;I3LBK0;A0A287AU9  
3;A0A287BDV3;I3L6U3;A0A286ZK41;A0A5G2QWT2;A0A286ZRV9;A0A287AE24;A0A286ZYQ7;A0  
A286ZMU4;A0A287AFK6;A0A287BNX9  
A0A287A4Y3;F1STC5;A0A287B5G0;F1STC2;A0A286ZQQ8;A0A287ARL5 223  
tr|A0A287A4Y3|A0A287A4Y3\_PIG Ig-like domain-containing protein OS=Sus scrofa OX=9823  
PE=1 SV=1;tr|F1STC5|F1STC5\_PIG Ig-like domain-containing protein OS=Sus scrofa OX=9823 PE=1  
SV=5;tr|A0A287B5G0|A0A287B5G0\_PIG Ig-like domain-containing protein OS=Sus scro  
70364000 66476000 95739000 246790000 134130000 82630000 221570000 156050000  
196570000 278860000 125560000 163780000 8 8 8 21,4 21,4  
21,4 27,118 0 29,488 4147500000 61  
A0A287A4Z2;A0A287APZ8;P28768;A0A287A8A8;A0A5G2RDT4  
A0A287A4Z2;A0A287APZ8;P28768;A0A287A8A8;A0A5G2RDT4 224  
tr|A0A287A4Z2|A0A287A4Z2\_PIG Superoxide dismutase OS=Sus scrofa OX=9823 GN=SOD2  
PE=1 SV=2;tr|A0A287APZ8|A0A287APZ8\_PIG Superoxide dismutase [Mn], mitochondrial OS=Sus

scrofa OX=9823 GN=SOD2 PE=1 SV=2;sp|P28768|SODM\_PIG Superoxide dismutase [Mn], mitochondr

11376000 0 0 17256000 6686000 10916000 17081000 0 0 22173000 10202000 9873400

4 4 4 15,1 15,1 15,1 40,779 0 36,873 253930000 17

A0A287A515;F1RVA3;A0A5G2QVC9 A0A287A515;F1RVA3;A0A5G2QVC9 225

tr|A0A287A515|A0A287A515\_PIG Gamma-sarcoglycan OS=Sus scrofa OX=9823 GN=SGCG PE=1 SV=2;tr|F1RVA3|F1RVA3\_PIG Gamma-sarcoglycan OS=Sus scrofa OX=9823 GN=SGCG PE=1 SV=4;tr|A0A5G2QVC9|A0A5G2QVC9\_PIG Gamma-sarcoglycan OS=Sus scrofa OX=9823 GN=SGCG PE=1 SV=1

10604000 15786000 18768000 8552300 25340000 19906000 6714300 13576000 26011000 11594000

20701000 26758000 8 8 8 33,8 33,8 33,8 26,204 0 31,463

622350000 40 A0A287A518;F2Z543;A0A287ADF7;A0A5G2R6X6

A0A287A518;F2Z543;A0A287ADF7 226 tr|A0A287A518|A0A287A518\_PIG Prohibitin OS=Sus scrofa OX=9823 GN=PHB PE=1 SV=1;tr|F2Z543|F2Z543\_PIG Prohibitin OS=Sus scrofa OX=9823 GN=PHB PE=1 SV=3;tr|A0A287ADF7|A0A287ADF7\_PIG Prohibitin OS=Sus scrofa OX=9823 GN=PHB PE=1 SV=1

53748000 72874000 120860000 100850000 150750000 141330000 60393000 93172000

140040000 96652000 163120000 218540000 15 15 15 39 39 39

52,698 0 84,584 8668000000 187

F1SKM0;A0A287A558;A0A287BHP7;A0A287AJH5;F1SB55;A0A480T8S4;A0A5G2QH82

F1SKM0;A0A287A558;A0A287BHP7;A0A287AJH5 227 tr|F1SKM0|F1SKM0\_PIG Ubiquinol-cytochrome c reductase core protein 1 OS=Sus scrofa OX=9823 GN=UQCRC1 PE=1 SV=3;tr|A0A287A558|A0A287A558\_PIG Ubiquinol-cytochrome c reductase core protein 1 OS=Sus scrofa OX=9823 GN=UQCRC1 PE=1 SV=2;tr|A0A287BHP7|A0A287BHP7\_P

7619700 7013500 10154000 0 6490300 0 5873200 7159100 0 6124100 6019100 0

9 9 9 15,1 15,1 15,1 84,293 0 26,881 148600000 16

A0A287A5B4;F1RRD6;A0A287AH24;A0A287ANX4

A0A287A5B4;F1RRD6;A0A287AH24;A0A287ANX4 228 tr|A0A287A5B4|A0A287A5B4\_PIG BRO1 domain-containing protein OS=Sus scrofa OX=9823 GN=PDCD6IP PE=1 SV=2;tr|F1RRD6|F1RRD6\_PIG BRO1 domain-containing protein OS=Sus scrofa OX=9823 GN=PDCD6IP PE=1 SV=4;tr|A0A287AH24|A0A287AH24\_PIG BRO1 domain-containing protei

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1,7 1,7 1,7

60,997 0,0059172 1,525 0 1 F1RY43;A0A287A5F9 F1RY43;A0A287A5F9 229

tr|F1RY43|F1RY43\_PIG Pyruvate dehydrogenase phosphatase catalytic subunit 1 OS=Sus scrofa OX=9823 GN=PDP1 PE=1 SV=1;tr|A0A287A5F9|A0A287A5F9\_PIG Pyruvate dehydrogenase phosphatase catalytic subunit 1 OS=Sus scrofa OX=9823 GN=PDP1 PE=1 SV=1

13128000 27849000 20130000 26646000 0 33632000 14276000 0 19029000 16965000 12063000

13205000 11 3 3 34,5 11,4 11,4 40,103 0 7,0674 441280000 18

A0A5G2QZX1;A0A287AAR4;Q6QAQ1;I3LVD5;A0A287A5G1;A0A287AA77;A0A5S6I3N7;A0A287A4R1 A0A5G2QZX1;A0A287AAR4;Q6QAQ1;I3LVD5;A0A287A5G1;A0A287AA77;A0A5S6I3N7

230 tr|A0A5G2QZX1|A0A5G2QZX1\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 GN=ACTG1 PE=1 SV=1;tr|A0A287AAR4|A0A287AAR4\_PIG Actin, cytoplasmic 1 OS=Sus scrofa

OX=9823 GN=ACTB PE=3 SV=1;sp|Q6QAQ1|ACTB\_PIG Actin, cytoplasmic 1 OS=Sus scrofa  
OX=9823 GN=ACTB PE  
0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 6,2 6,2 6,2  
22,037 0,0078201 1,4857 10062000 7 F1S533;A0A287A5G3 F1S533;A0A287A5G3  
231 tr|F1S533|F1S533\_PIG Transmembrane emp24 domain-containing protein 5 OS=Sus scrofa  
OX=9823 GN=TMED5 PE=1 SV=2;tr|A0A287A5G3|A0A287A5G3\_PIG Transmembrane emp24  
domain-containing protein 5 OS=Sus scrofa OX=9823 GN=TMED5 PE=1 SV=1  
0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 5,7 5,7 5,7  
21,899 0 19,043 288530000 12  
F1SUT0;A0A5G2QCT8;A0A5G2QGN9;A0A5G2QQB0;A0A5G2R1S2;A0A5G2QQ57;A0A287BI6  
3;A0A287A5W5;I3LMP5;A0A287AMK7  
F1SUT0;A0A5G2QCT8;A0A5G2QGN9;A0A5G2QQB0;A0A5G2R1S2;A0A5G2QQ57;A0A287BI6  
3;A0A287A5W5;I3LMP5;A0A287AMK7 232 tr|F1SUT0|F1SUT0\_PIG Uncharacterized protein  
OS=Sus scrofa OX=9823 GN=RAB6A PE=1 SV=3;tr|A0A5G2QCT8|A0A5G2QCT8\_PIG RAB6B,  
member RAS oncogene family OS=Sus scrofa OX=9823 GN=RAB6B PE=1  
SV=1;tr|A0A5G2QGN9|A0A5G2QGN9\_PIG RAB6B, member RAS oncogene family OS=  
74033000 47725000 42213000 79920000 26601000 38097000 83042000 42602000 34959000 82144000  
32893000 28419000 21 21 8 32,2 32,2 6,1 235,79 0 53,528  
205960000 121 A0A287A608;A0A287A4Q2;A0A286ZP76  
A0A287A608;A0A287A4Q2;A0A286ZP76 233 tr|A0A287A608|A0A287A608\_PIG AHNAK  
nucleoprotein OS=Sus scrofa OX=9823 GN=AHNAK PE=1 SV=2;tr|A0A287A4Q2|A0A287A4Q2\_PIG  
AHNAK nucleoprotein OS=Sus scrofa OX=9823 GN=AHNAK PE=1  
SV=2;tr|A0A286ZP76|A0A286ZP76\_PIG AHNAK nucleoprotein OS=Sus scrofa OX=9823 GN=AH  
175750000 138560000 270560000 339880000 221510000 268360000 375500000  
166600000 172720000 380490000 204510000 330370000 9 9  
9 33,2 33,2 33,2 23,359 0 26,058 14838000000 231  
A0A287AJ76;A0A287A690;F1SDX9;P52552;A0A5G2QIX9  
A0A287AJ76;A0A287A690;F1SDX9;P52552234 tr|A0A287AJ76|A0A287AJ76\_PIG  
Peroxisredoxin-2 OS=Sus scrofa OX=9823 GN=PRDX2 PE=1 SV=1;tr|A0A287A690|A0A287A690\_PIG  
Peroxisredoxin-2 OS=Sus scrofa OX=9823 GN=PRDX2 PE=1 SV=1;tr|F1SDX9|F1SDX9\_PIG  
Peroxisredoxin-2 OS=Sus scrofa OX=9823 GN=PRDX2 PE=1 SV=4;sp|P52  
9390000 6130500 7599800 0 0 0 0 0 0 0 0 0 3 3 3  
8,4 8,4 8,4 48,501 0 5,9714 62928000 7  
A0A287B646;A0A287A699;I3LQS0;A0A287BKQ9;A0A5G2RGD5  
A0A287B646;A0A287A699;I3LQS0;A0A287BKQ9 235 tr|A0A287B646|A0A287B646\_PIG  
Heterogeneous nuclear ribonucleoprotein K OS=Sus scrofa OX=9823 GN=HNRNPK PE=1  
SV=2;tr|A0A287A699|A0A287A699\_PIG Heterogeneous nuclear ribonucleoprotein K OS=Sus scrofa  
OX=9823 GN=HNRNPK PE=1 SV=2;tr|I3LQS0|I3LQS0\_PIG Heterogen  
6840100 8693700 5582300 0 5210800 0 0 0 4174500 0 0 0 3  
3 3 8,1 8,1 8,1 50,58 0 4,1682 94105000 11  
A0A287AT16;A0A287BSE8;A0A287AAK1;A0A287A6E6  
A0A287AT16;A0A287BSE8;A0A287AAK1;A0A287A6E6 236  
tr|A0A287AT16|A0A287AT16\_PIG G protein pathway suppressor 1 OS=Sus scrofa OX=9823

GN=GPS1 PE=3 SV=2;tr|A0A287BSE8|A0A287BSE8\_PIG G protein pathway suppressor 1 OS=Sus  
scrofa OX=9823 GN=GPS1 PE=3 SV=2;tr|A0A287AAK1|A0A287AAK1\_PIG G protein pathway  
suppresso

236550000 588640000 521790000 1942300000 459330000 952560000 982440000  
700530000 443300000 742490000 418440000 130100000 15 15  
15 79,6 79,6 79,6 18,852 0 125 59103000000 712

A0A287A6F0;Q5XLD2;A0A5G2R327;A0A5G2Q8Q3;A0A5G2RLS9;A0A5G2QIC4

A0A287A6F0;Q5XLD2;A0A5G2R327;A0A5G2Q8Q3;A0A5G2RLS9 237

tr|A0A287A6F0|A0A287A6F0\_PIG Myosin light chain, phosphorylatable, fast skeletal muscle  
OS=Sus scrofa OX=9823 GN=MYLPF PE=1 SV=2;tr|Q5XLD2|Q5XLD2\_PIG Myosin light chain,  
phosphorylatable, fast skeletal muscle OS=Sus scrofa OX=9823 GN=MYLPF PE=1 SV=1;tr|A0A

0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 7,2 7,2 7,2  
40,464 0,0087379 1,4351 6122400 2 A0A287A6F5 A0A287A6F5 238

tr|A0A287A6F5|A0A287A6F5\_PIG Prostaglandin reductase 3 isoform 1 OS=Sus scrofa OX=9823  
GN=ZADH2 PE=1 SV=1

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 4,5 4,5 4,5  
33,119 0 3,0691 4537600 1

A0A287A6I6;A0A5G2R466;A0A287AYH4;A0A287BKH7;A0A5G2Q8L9;A0A5G2QBZ4;I3LFE8

A0A287A6I6;A0A5G2R466;A0A287AYH4;A0A287BKH7;A0A5G2Q8L9;A0A5G2QBZ4;I3LFE8

239 tr|A0A287A6I6|A0A287A6I6\_PIG Inorganic diphosphatase OS=Sus scrofa OX=9823  
GN=PPA2 PE=1 SV=2;tr|A0A5G2R466|A0A5G2R466\_PIG Inorganic diphosphatase OS=Sus scrofa  
OX=9823 GN=PPA2 PE=1 SV=1;tr|A0A287AYH4|A0A287AYH4\_PIG Inorganic diphosphatase  
OS=Sus scrofa OX=

0 0 6639500 7960300 6225700 7321400 7942300 0 7648700 0 5834000 7491100  
4 4 4 7,4 7,4 7,4 69,319 0 5,8179 139390000 11

A0A287A6K7;A0A287BI42;A0A287AFN5 A0A287A6K7;A0A287BI42;A0A287AFN5 240

tr|A0A287A6K7|A0A287A6K7\_PIG Adipocyte plasma membrane-associated protein OS=Sus  
scrofa OX=9823 GN=APMAP PE=1 SV=1;tr|A0A287BI42|A0A287BI42\_PIG Adipocyte plasma  
membrane-associated protein OS=Sus scrofa OX=9823 GN=APMAP PE=1  
SV=1;tr|A0A287AFN5|A0A287AFN5\_P

73086000 65385000 30048000 82679000 67024000 56544000 91565000 55197000 34301000 108560000  
62593000 31849000 7 7 7 29,4 29,4 29,4 28,153 0 17,257

2478100000 57 A0A287A6V9 A0A287A6V9 241 tr|A0A287A6V9|A0A287A6V9\_PIG

Carboxymethylenebutenolidase homolog OS=Sus scrofa OX=9823 GN=CMBL PE=1 SV=1

0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 8,2 8,2 8,2  
48,244 0 3,5552 44415000 4

F1SR76;A0A287B1J1;A0A287A7C2;A0A5G2R9H6;A0A287ALM0

F1SR76;A0A287B1J1;A0A287A7C2;A0A5G2R9H6;A0A287ALM0 242 tr|F1SR76|F1SR76\_PIG  
Aspartyl aminopeptidase OS=Sus scrofa OX=9823 GN=DNPEP PE=1  
SV=4;tr|A0A287B1J1|A0A287B1J1\_PIG Aspartyl aminopeptidase OS=Sus scrofa OX=9823  
GN=DNPEP PE=1 SV=1;tr|A0A287A7C2|A0A287A7C2\_PIG Aspartyl aminopeptidase OS=Sus  
scrofa OX=9823 G



0 8186600 19917000 3731000 22217000 28775000 0 11312000 19885000 5086700 18134000  
 31632000 7 7 7 25,8 25,8 25,8 29,882 0 12,929 524690000 33  
 A0A287A7F6;A0A287B037;A0A5G2QT83;I3LQN4;A0A5G2QCF6;A0A5G2QBR0  
 A0A287A7F6;A0A287B037;A0A5G2QT83;I3LQN4;A0A5G2QCF6 243  
 tr|A0A287A7F6|A0A287A7F6\_PIG Prohibitin OS=Sus scrofa OX=9823 GN=PHB2 PE=1  
 SV=2;tr|A0A287B037|A0A287B037\_PIG Prohibitin OS=Sus scrofa OX=9823 GN=PHB2 PE=1  
 SV=1;tr|A0A5G2QT83|A0A5G2QT83\_PIG Prohibitin OS=Sus scrofa OX=9823 GN=PHB2 PE=1  
 SV=1;tr|I3LQN4|I3LQN4  
 0 6345500 0 0 0 6329900 0 0 5817100 0 0 7402700 5 5  
 2 15 15 5,9 37,377 0 5,5947 104910000 8  
 A0A287A7Q3;I3LSK5;A0A287AW90;A0A287A365;A0A287AHH8;F1SLU8  
 A0A287A7Q3;I3LSK5;A0A287AW90;A0A287A365 244 tr|A0A287A7Q3|A0A287A7Q3\_PIG  
 G protein subunit beta 1 OS=Sus scrofa OX=9823 GN=GNB1 PE=3 SV=1;tr|I3LSK5|I3LSK5\_PIG G  
 protein subunit beta 1 OS=Sus scrofa OX=9823 GN=GNB1 PE=3  
 SV=3;tr|A0A287AW90|A0A287AW90\_PIG G protein subunit beta 1 OS=Sus scrofa OX=9823  
 4139600000 5124100000 2096900000 6052700000 3383400000 2541700000 6588600000  
 4356000000 3275200000 4454500000 3465500000 1624200000 44 44  
 44 33,6 33,6 33,6 126,28 0 323,31 441210000000 3779  
 A0A287AQJ5;A0A287A7R4;F1SHM0;A0A287B8G0;A0A287B7L9;F1SHL9;A0A287B785;A0A286  
 ZI36;A0A286ZYV7  
 A0A287AQJ5;A0A287A7R4;F1SHM0;A0A287B8G0;A0A287B7L9;F1SHL9;A0A287B785;A0A286  
 ZI36245 tr|A0A287AQJ5|A0A287AQJ5\_PIG Multifunctional fusion protein OS=Sus scrofa OX=9823  
 GN=PKM PE=1 SV=1;tr|A0A287A7R4|A0A287A7R4\_PIG Multifunctional fusion protein OS=Sus  
 scrofa OX=9823 GN=PKM PE=1 SV=1;tr|F1SHM0|F1SHM0\_PIG Pyruvate kinase OS=Sus scrofa  
 OX=9823  
 83941000 61942000 134060000 201560000 166670000 151960000 179630000  
 100000000 125040000 249350000 177220000 275300000 4 4  
 4 43 43 43 10,156 0 18,704 4459100000 133  
 A0A287A808;F1RLH7;A0A287AND7;A0A5G2QL31 A0A287A808;F1RLH7 246  
 tr|A0A287A808|A0A287A808\_PIG Cytochrome c oxidase subunit OS=Sus scrofa OX=9823  
 GN=COX6B PE=1 SV=1;tr|F1RLH7|F1RLH7\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
 GN=COX6B PE=1 SV=3  
 1547200 4115700 4462000 0 20384000 1160500 483780 32582000 670620 244490 32942000  
 4024600 55 55 55 13,3 13,3 13,3 513,05 0 143,19 1434700000 126  
 A0A287B217;A0A287BN04;A0A287BNK7;A0A287B0Y8;A0A287A8C7;A0A287B9H1;A0A287A  
 A88  
 A0A287B217;A0A287BN04;A0A287BNK7;A0A287B0Y8;A0A287A8C7;A0A287B9H1;A0A287A  
 A88 248 tr|A0A287B217|A0A287B217\_PIG Plectin OS=Sus scrofa OX=9823 GN=PLEC PE=1  
 SV=2;tr|A0A287BN04|A0A287BN04\_PIG Plectin OS=Sus scrofa OX=9823 GN=PLEC PE=1  
 SV=1;tr|A0A287BNK7|A0A287BNK7\_PIG Plectin OS=Sus scrofa OX=9823 GN=PLEC PE=1  
 SV=2;tr|A0A287B0Y8|A0A287B0Y8\_  
 0 0 0 6764300 0 0 0 0 0 4426400 0 0 2 2 2 6,9  
 6,9 6,9 29,445 0,002181 2,2655 21465000 4

F1RQ24;Q31072;A0A287ARX3;A0A287A8D7;A0A287BF11;A0A287AAB9  
F1RQ24;Q31072;A0A287ARX3;A0A287A8D7;A0A287BF11;A0A287AAB9 249  
tr|F1RQ24|F1RQ24\_PIG Ig-like domain-containing protein OS=Sus scrofa OX=9823 GN=SLA-  
DRB1 PE=1 SV=4;tr|Q31072|Q31072\_PIG HLA class II histocompatibility antigen, DRB1-4 beta chain  
isoform X2 OS=Sus scrofa OX=9823 GN=LA-DRB-d PE=1 SV=1;tr|A0A287ARX3|A0A287AR  
13335000 7302800 6062400 21340000 0 7652200 17038000 0 6832100 14450000 0 4632300  
5 5 5 27,7 27,7 27,7 20,698 0 21,727 213070000 24  
A0A287A8F2;A0A5G2RL32;F1SUC9 A0A287A8F2;A0A5G2RL32;F1SUC9 250  
tr|A0A287A8F2|A0A287A8F2\_PIG Leucine rich repeat containing 20 OS=Sus scrofa OX=9823  
GN=LRRC20 PE=1 SV=1;tr|A0A5G2RL32|A0A5G2RL32\_PIG Leucine rich repeat containing 20  
OS=Sus scrofa OX=9823 GN=LRRC20 PE=1 SV=1;tr|F1SUC9|F1SUC9\_PIG Leucine rich repeat conta  
0 7513000 7896000 0 7010600 7072600 5549400 0 5337800 6163400 7218600 9242300  
6 4 4 14,3 10,1 10,1 43,394 0 8,6351 135060000 27  
A0A287B465;A0A287A8M1;I3LDC7 A0A287B465;A0A287A8M1;I3LDC7 251  
tr|A0A287B465|A0A287B465\_PIG Isocitrate dehydrogenase [NADP] OS=Sus scrofa OX=9823  
GN=IDH1 PE=1 SV=1;tr|A0A287A8M1|A0A287A8M1\_PIG Isocitrate dehydrogenase [NADP]  
OS=Sus scrofa OX=9823 GN=IDH1 PE=1 SV=1;tr|I3LDC7|I3LDC7\_PIG Isocitrate dehydrogenase  
[NADP] O  
29185000 0 28202000 10754000 19628000 35405000 13811000 0 24302000 0 14896000 18558000  
3 3 3 11,6 11,6 11,6 29,251 0 6,39 278540000 9 A0A287A8T0  
A0A287A8T0 252 tr|A0A287A8T0|A0A287A8T0\_PIG Ribosomal protein L7 OS=Sus scrofa  
OX=9823 GN=RPL7 PE=1 SV=2  
8521900 6101400 24732000 11125000 14159000 18010000 6331000 6627900 12845000 11989000  
15381000 31585000 7 7 7 19,8 19,8 19,8 42,811 0 28,498  
55910000 47 A0A287BG49;A0A287A8Y8;A0A287AP64;P79273;F1RJH2  
A0A287BG49;A0A287A8Y8;A0A287AP64;P79273;F1RJH2 253  
tr|A0A287BG49|A0A287BG49\_PIG Short-chain-specific acyl-CoA dehydrogenase,  
mitochondrial OS=Sus scrofa OX=9823 GN=ACADS PE=1 SV=1;tr|A0A287A8Y8|A0A287A8Y8\_PIG  
Short-chain-specific acyl-CoA dehydrogenase, mitochondrial OS=Sus scrofa OX=9823 GN=ACADS  
PE=1 SV=  
0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 2,9 2,9 2,9  
38,603 0 3,4765 36366000 2 F2Z540;A0A287A976 F2Z540;A0A287A976 254  
tr|F2Z540|F2Z540\_PIG COP9 signalosome subunit 5 OS=Sus scrofa OX=9823 GN=COPS5 PE=1  
SV=3;tr|A0A287A976|A0A287A976\_PIG COP9 signalosome subunit 5 OS=Sus scrofa OX=9823  
GN=COPS5 PE=1 SV=2  
8542700 0 0 0 4193400 0 7158700 0 0 5747300 0 4737500 6  
6 6 10,7 10,7 10,7 70,754 0 17,398 95773000 12 F1S6Z6;A0A287A996  
F1S6Z6;A0A287A996 255 tr|F1S6Z6|F1S6Z6\_PIG Taxilin beta OS=Sus scrofa OX=9823  
GN=TXLNB PE=1 SV=3;tr|A0A287A996|A0A287A996\_PIG Taxilin beta OS=Sus scrofa OX=9823  
GN=TXLNB PE=1 SV=1  
6682900 4794100 6448900 0 5116800 0 0 0 0 0 0 0 3 3  
3 6,8 6,8 6,8 58,808 0 16,93 46605000 11  
A0A287BIR4;A0A287B6M8;A0A287A9E8;A0A287BEJ8;A0A287ADQ2;A0A286ZXY2;A0A481B

HF4;F1SDL5;A0A286ZW01;A0A480RJP3;A0A287BMV0  
A0A287BIR4;A0A287B6M8;A0A287A9E8;A0A287BEJ8;A0A287ADQ2;A0A286ZXY2;A0A481B  
HF4;F1SDL5;A0A286ZW01;A0A480RJP3;A0A287BMV0 256 tr|A0A287BIR4|A0A287BIR4\_PIG  
Dystrobrevin alpha OS=Sus scrofa OX=9823 GN=DTNA PE=1  
SV=1;tr|A0A287B6M8|A0A287B6M8\_PIG Dystrobrevin alpha OS=Sus scrofa OX=9823 GN=DTNA  
PE=1 SV=1;tr|A0A287A9E8|A0A287A9E8\_PIG Dystrobrevin OS=Sus scrofa OX=9823 GN=DTNA  
PE=1 SV=  
0 0 0 0 0 7064300 0 0 6434900 0 0 13703000 2 2 2  
3,4 3,4 3,4 45,035 0,00499 1,6269 79501000 3  
I3LLW3;A0A5G2QSG1;A0A5G2R4T0;A0A287A9I6  
I3LLW3;A0A5G2QSG1;A0A5G2R4T0;A0A287A9I6 257 tr|I3LLW3|I3LLW3\_PIG SAMM50  
sorting and assembly machinery component OS=Sus scrofa OX=9823 GN=SAMM50 PE=1  
SV=2;tr|A0A5G2QSG1|A0A5G2QSG1\_PIG SAMM50 sorting and assembly machinery component  
OS=Sus scrofa OX=9823 GN=SAMM50 PE=1 SV=1;tr|A0A5G2R4T0|A0A5G2R4T0\_P  
29862000 39743000 131670000 0 111850000 115500000 0 42784000 59008000 12119000  
58145000 212330000 7 7 7 26,6 26,6 26,6 30,337 0 15,338  
1421600000 29 A0A287A9I8;A0A287AHM1 A0A287A9I8;A0A287AHM1 258  
tr|A0A287A9I8|A0A287A9I8\_PIG ATP synthase subunit gamma OS=Sus scrofa OX=9823  
GN=ATP5F1C PE=1 SV=2;tr|A0A287AHM1|A0A287AHM1\_PIG ATP synthase subunit gamma  
OS=Sus scrofa OX=9823 GN=ATP5F1C PE=3 SV=1  
13757000 0 10984000 0 0 0 0 0 16853000 0 2 2 2  
15 15 15 15,635 0 22,52 110530000 6  
F1RIU9;A0A287BL36;A0A287AQI8;A0A287A9W3  
F1RIU9;A0A287BL36;A0A287AQI8;A0A287A9W3 259 tr|F1RIU9|F1RIU9\_PIG Coiled-coil-  
helix-coiled-coil-helix domain-containing protein 2 OS=Sus scrofa OX=9823 GN=CHCHD2 PE=1  
SV=2;tr|A0A287BL36|A0A287BL36\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 PE=4  
SV=1;tr|A0A287AQI8|A0A287AQI8\_PIG Uncharacterized  
0 0 9581700 0 0 0 0 0 0 0 0 6103900 2 2 2 5,7  
5,7 5,7 36,694 0 7,5988 52205000 5  
A0A287AQS0;F1S297;A0A287A9X1;A0A5G2QJF8;P41566  
A0A287AQS0;F1S297;A0A287A9X1;A0A5G2QJF8;P41566 260  
tr|A0A287AQS0|A0A287AQS0\_PIG Isocitrate dehydrogenase [NAD] subunit, mitochondrial  
OS=Sus scrofa OX=9823 GN=IDH3G PE=1 SV=1;tr|F1S297|F1S297\_PIG Isocitrate dehydrogenase  
[NAD] subunit, mitochondrial OS=Sus scrofa OX=9823 GN=IDH3G PE=1 SV=3;tr|A0A287A9X1|A0  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 3,4 3,4 3,4  
39,025 0 12,559 52136000 7 A0A5K1UBB6;A0A5G2R0Q8;A0A287AA20  
A0A5K1UBB6;A0A5G2R0Q8;A0A287AA20 261 tr|A0A5K1UBB6|A0A5K1UBB6\_PIG  
Sarcoglycan alpha OS=Sus scrofa OX=9823 GN=SGCA PE=1  
SV=1;tr|A0A5G2R0Q8|A0A5G2R0Q8\_PIG Sarcoglycan alpha OS=Sus scrofa OX=9823 GN=SGCA  
PE=1 SV=1;tr|A0A287AA20|A0A287AA20\_PIG Sarcoglycan alpha OS=Sus scrofa OX=9823  
GN=SGCA PE=1  
12662000 13030000 21816000 18753000 28018000 21269000 18010000 15015000 18951000 20266000  
21022000 25253000 6 6 6 20,1 20,1 20,1 34,58 0 18,245

729830000 33 A0A287AA21;A0A287BF56 A0A287AA21;A0A287BF56 262  
tr|A0A287AA21|A0A287AA21\_PIG Enoyl-CoA hydratase, mitochondrial OS=Sus scrofa  
OX=9823 GN=ECHS1 PE=1 SV=2;tr|A0A287BF56|A0A287BF56\_PIG Uncharacterized protein  
OS=Sus scrofa OX=9823 GN=ECHS1 PE=1 SV=1  
13521000 11242000 17531000 16223000 13850000 15171000 15283000 12358000 11518000 17584000  
12301000 13513000 4 4 4 28,5 28,5 28,5 15,907 0 15,696  
277110000 16 A0A5G2QR20;A0A287AAE2;Q8MJ30;A0A5G2QZN1  
A0A5G2QR20;A0A287AAE2;Q8MJ30;A0A5G2QZN1 263  
tr|A0A5G2QR20|A0A5G2QR20\_PIG Dihydropteridine reductase OS=Sus scrofa OX=9823  
GN=QDPR PE=4 SV=1;tr|A0A287AAE2|A0A287AAE2\_PIG Dihydropteridine reductase OS=Sus  
scrofa OX=9823 GN=QDPR PE=4 SV=1;sp|Q8MJ30|DHPR\_PIG Dihydropteridine reductase OS=Sus  
scrofa OX=9  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 15,7 15,7 15,7  
7,9431 0,0030303 1,7509 0 2 A0A287AAH8;A0A287AJT7  
A0A287AAH8;A0A287AJT7 264 tr|A0A287AAH8|A0A287AAH8\_PIG 60S ribosomal protein  
L28 OS=Sus scrofa OX=9823 GN=RPL28 PE=3 SV=1;tr|A0A287AJT7|A0A287AJT7\_PIG 60S ribosomal  
protein L28 OS=Sus scrofa OX=9823 GN=RPL28 PE=1 SV=1  
2047800000 470220000 320200000 1325000000 369690000 355810000 1356400000  
432920000 411100000 912580000 320440000 147030000 14 14  
2 27,1 27,1 3,4 31,547 0 106,4 23656000000 329  
Q75NH2;A0A287ARW1;A0A287AFK2;A0A287AAI0;A0A5S6I3K1;A0A5G2R3I0;A0A287BHG2;  
A0A287A421  
Q75NH2;A0A287ARW1;A0A287AFK2;A0A287AAI0;A0A5S6I3K1;A0A5G2R3I0;A0A287BHG2;  
A0A287A421 265 tr|Q75NH2|Q75NH2\_PIG Troponin T, fast skeletal muscle OS=Sus scrofa  
OX=9823 GN=TNNT3 PE=2 SV=1;tr|A0A287ARW1|A0A287ARW1\_PIG Troponin T, fast skeletal  
muscle OS=Sus scrofa OX=9823 GN=TNNT3 PE=3 SV=2;tr|A0A287AFK2|A0A287AFK2\_PIG  
Troponin T, fast skeletal mus  
23097000 11748000 14783000 25951000 15520000 17476000 21650000 10116000 11678000 27818000  
13965000 18954000 6 6 6 27,7 27,7 27,7 28,937 0 24,709  
535460000 51  
A0A287AAI9;A0A287AZ17;F1RG31;A0A5G2QKD2;A0A5G2QP05;A0A287BIP5  
A0A287AAI9;A0A287AZ17;F1RG31;A0A5G2QKD2;A0A5G2QP05 266  
tr|A0A287AAI9|A0A287AAI9\_PIG Hydroxyacylglutathione hydrolase OS=Sus scrofa OX=9823  
GN=HAGH PE=1 SV=1;tr|A0A287AZ17|A0A287AZ17\_PIG Hydroxyacylglutathione hydrolase  
OS=Sus scrofa OX=9823 GN=HAGH PE=1 SV=2;tr|F1RG31|F1RG31\_PIG Hydroxyacylglutathione  
hydrolas  
324280000 226560000 1146300000 98466000 501690000 1352300000 58955000  
249130000 483270000 390330000 603090000 1620600000 18 18  
6 52 52 15,5 38,749 0 160,98 40188000000 528  
K7GSI9;K7GLQ8;A0A5K1UHX7;A0A287AAL6;K7GS06;A0A5K1U1D1  
K7GSI9;K7GLQ8;A0A5K1UHX7;A0A287AAL6;K7GS06;A0A5K1U1D1 267  
tr|K7GSI9|K7GSI9\_PIG Four and a half LIM domains 1 OS=Sus scrofa OX=9823 GN=FHL1 PE=1

SV=2;tr|K7GLQ8|K7GLQ8\_PIG Four and a half LIM domains 1 OS=Sus scrofa OX=9823 GN=FHL1  
PE=1 SV=3;tr|A0A5K1UHX7|A0A5K1UHX7\_PIG Four and a half LIM domains 1 OS=Sus scrofa O  
0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 21,9 21,9 21,9  
10,963 0 3,8161 191960007  
A0A287AAM0;A0A5G2QHV9;A0A287ABY4;A0A5G2Q9K4;A0A5G2QYQ6;A0A5G2QKQ3  
A0A287AAM0;A0A5G2QHV9;A0A287ABY4;A0A5G2Q9K4;A0A5G2QYQ6;A0A5G2QKQ3  
268 tr|A0A287AAM0|A0A287AAM0\_PIG Dynein light chain roadblock OS=Sus scrofa  
OX=9823 GN=DYNLRB1 PE=1 SV=1;tr|A0A5G2QHV9|A0A5G2QHV9\_PIG Dynein light chain  
roadblock-type 2 OS=Sus scrofa OX=9823 GN=DYNLRB2 PE=4  
SV=1;tr|A0A287ABY4|A0A287ABY4\_PIG Dynein light chain  
0 4744600 8358500 4852400 5732300 4111800 0 8094700 10504000 3857700 5550200  
6662200 4 4 4 18,5 18,5 18,5 34,339 0 7,2577 130070000 15  
A0A287AAP0;A0A5G2R332 A0A287AAP0;A0A5G2R332 269  
tr|A0A287AAP0|A0A287AAP0\_PIG Fumarylacetoacetate hydrolase domain-containing  
protein 2 OS=Sus scrofa OX=9823 GN=LOC100522130 PE=1  
SV=1;tr|A0A5G2R332|A0A5G2R332\_PIG FAA\_hydrolase domain-containing protein OS=Sus scrofa  
OX=9823 GN=LOC100522130 PE=1 SV=1  
0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 14,7 14,7 14,7  
17,289 0,0022247 2,4036 337210004 A0A287AAR5;F1SAB6 A0A287AAR5;F1SAB6  
270 tr|A0A287AAR5|A0A287AAR5\_PIG Acyl carrier protein OS=Sus scrofa OX=9823  
GN=NDUFAB1 PE=1 SV=1;tr|F1SAB6|F1SAB6\_PIG Acyl carrier protein OS=Sus scrofa OX=9823  
GN=NDUFAB1 PE=1 SV=3  
0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 10,1 10,1 10,1  
12,421 0,0011299 2,5548 638230008  
A0A287AAT2;A0A5G2R3A4;A0A287ARZ0;Q06AA8;A0A5G2RMT5;F2Z5P3  
A0A287AAT2;A0A5G2R3A4;A0A287ARZ0;Q06AA8;A0A5G2RMT5;F2Z5P3 271  
tr|A0A287AAT2|A0A287AAT2\_PIG Ubiquitin conjugating enzyme E2 D1 OS=Sus scrofa  
OX=9823 GN=UBE2D1 PE=3 SV=1;tr|A0A5G2R3A4|A0A5G2R3A4\_PIG Ubiquitin conjugating  
enzyme E2 D1 OS=Sus scrofa OX=9823 GN=UBE2D1 PE=3 SV=1;tr|A0A287ARZ0|A0A287ARZ0\_PIG  
Ubiquitin conj  
118690000 17212000 114960000 28585000 59139000 68196000 30868000 20268000 28515000  
39777000 32247000 72458000 47 46 46 47,7 46,7 46,7 133,77 0 251,45  
912980000 422  
A0A287AAY6;F1SRI8;A0A287BGX8;A0A287B5J2;A0A287B943;A0A287BQI3;A0A286ZZN7;A0  
A5G2QM90;A0A287ATS2  
A0A287AAY6;F1SRI8;A0A287BGX8;A0A287B5J2;A0A287B943;A0A287BQI3;A0A286ZZN7;A0  
A5G2QM90;A0A287ATS2 272 tr|A0A287AAY6|A0A287AAY6\_PIG Myosin binding protein C1  
OS=Sus scrofa OX=9823 GN=MYBPC1 PE=1 SV=2;tr|F1SRI8|F1SRI8\_PIG Myosin binding protein C1  
OS=Sus scrofa OX=9823 GN=MYBPC1 PE=1 SV=3;tr|A0A287BGX8|A0A287BGX8\_PIG Myosin  
binding protein C1 OS=Sus scrofa O  
5802900 0 4100900 4072100 0 6054200 0 0 0 0 0 0 0 3 3  
3 5 5 5 80,395 0 6,0842 6994900010  
A0A5G2RCK2;F1RQW6;A0A287AAZ9;K7GPT9

A0A5G2RCK2;F1RQW6;A0A287AAZ9;K7GPT9 273 tr|A0A5G2RCK2|A0A5G2RCK2\_PIG C3/C5 convertase OS=Sus scrofa OX=9823 GN=CFB PE=1 SV=1;tr|F1RQW6|F1RQW6\_PIG C3/C5 convertase OS=Sus scrofa OX=9823 GN=CFB PE=1 SV=2;tr|A0A287AAZ9|A0A287AAZ9\_PIG C3/C5 convertase OS=Sus scrofa OX=9823 GN=CFB PE=1 SV=2;tr|K7GPT9

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 3,9 3,9 3,9  
33,534 0,0021575 2,1461 17278000 1 F1RP25;A0A5G2R6V1;A0A287ABH0

F1RP25;A0A5G2R6V1;A0A287ABH0 274 tr|F1RP25|F1RP25\_PIG Citramalyl-CoA lyase OS=Sus scrofa OX=9823 GN=CLYBL PE=1 SV=4;tr|A0A5G2R6V1|A0A5G2R6V1\_PIG Citramalyl-CoA lyase OS=Sus scrofa OX=9823 GN=CLYBL PE=1 SV=1;tr|A0A287ABH0|A0A287ABH0\_PIG Citramalyl-CoA lyase OS=Sus scrofa OX=9823 GN=CLYBL P

14866000 0 20804000 34448000 15179000 18469000 26707000 18885000 19661000 31742000 24552000  
33213000 4 4 4 43,9 43,9 43,9 11,985 0 11,699 656240000 48  
A0A5G2QG10;A0A287ABR3;A0A5G2QPG5;F1RP45;A0A287BBW3

A0A5G2QG10;A0A287ABR3;A0A5G2QPG5 275 tr|A0A5G2QG10|A0A5G2QG10\_PIG ZnF\_CDGS domain-containing protein OS=Sus scrofa OX=9823 GN=CISD1 PE=4 SV=1;tr|A0A287ABR3|A0A287ABR3\_PIG ZnF\_CDGS domain-containing protein OS=Sus scrofa OX=9823 GN=CISD1 PE=4 SV=1;tr|A0A5G2QPG5|A0A5G2QPG5\_PIG ZnF\_CDGS domai

25438000 24216000 18735000 48277000 21797000 28822000 59354000 30290000 23123000 39643000  
21188000 19578000 7 6 6 34,5 29,7 29,7 27,718 0 28,831  
1550000000 54 A0A287AC42;A0A287BBB5;A0A5G2RB73

A0A287AC42;A0A287BBB5;A0A5G2RB73 276 tr|A0A287AC42|A0A287AC42\_PIG VAMP associated protein A OS=Sus scrofa OX=9823 GN=VAPA PE=1 SV=1;tr|A0A287BBB5|A0A287BBB5\_PIG VAMP associated protein A OS=Sus scrofa OX=9823 GN=VAPA PE=1 SV=1;tr|A0A5G2RB73|A0A5G2RB73\_PIG VAMP associated protein A OS=Sus scro

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 5,1 5,1 5,1  
19,603 0,00501 1,6561 29070000 3 A0A287ACA3;A0A5G2QJU8;I3LV38

A0A287ACA3;A0A5G2QJU8;I3LV38 277 tr|A0A287ACA3|A0A287ACA3\_PIG Peptide-methionine (R)-S-oxide reductase OS=Sus scrofa OX=9823 GN=MSRB3 PE=1 SV=1;tr|A0A5G2QJU8|A0A5G2QJU8\_PIG Peptide-methionine (R)-S-oxide reductase OS=Sus scrofa OX=9823 GN=MSRB3 PE=1 SV=1;tr|I3LV38|I3LV38\_PIG Peptide-methi

163590000 0 119780000 165990000 161940000 179580000 209340000  
136560000 160950000 191020000 155990000 140150000 9 8  
8 12,3 11,3 11,3 84,683 0 34,61 2667000000 59

A0A287ACF3;F1SU55;A0A5G2R2B8 A0A287ACF3;F1SU55;A0A5G2R2B8 278  
tr|A0A287ACF3|A0A287ACF3\_PIG Synaptopodin 2 like OS=Sus scrofa OX=9823 GN=SYNPO2L PE=4 SV=1;tr|F1SU55|F1SU55\_PIG Synaptopodin 2 like OS=Sus scrofa OX=9823 GN=SYNPO2L PE=4 SV=3;tr|A0A5G2R2B8|A0A5G2R2B8\_PIG Synaptopodin 2 like OS=Sus scrofa OX=9823 GN=SYNPO2

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 18,7 18,7 18,7  
7,7305 0,0030832 1,8523 5345500 1 A0A287ACN2 A0A287ACN2 279  
tr|A0A287ACN2|A0A287ACN2\_PIG Adipogenesis regulatory factor OS=Sus scrofa OX=9823 GN=ADIRF PE=1 SV=2

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 7,8 7,8 7,8  
 14,886 0,0087294 1,4336 3943900 2 F2Z5Q7;A0A287ACR8 F2Z5Q7;A0A287ACR8  
 280 tr|F2Z5Q7|F2Z5Q7\_PIG N-acetyltransferase domain-containing protein OS=Sus scrofa  
 OX=9823 GN=NAA50 PE=1 SV=3;tr|A0A287ACR8|A0A287ACR8\_PIG N-acetyltransferase domain-  
 containing protein OS=Sus scrofa OX=9823 GN=NAA50 PE=1 SV=1  
 8849300 0 0 10458000 6544200 5607800 0 0 5093900 9683400 5402800 4638800  
 2 2 2 9,4 9,4 9,4 24,612 0 7,7029 133210000 20  
 A0A287ACY5;A0A5G2QVK4 A0A287ACY5;A0A5G2QVK4 281  
 tr|A0A287ACY5|A0A287ACY5\_PIG Synaptogyrin OS=Sus scrofa OX=9823 GN=SYNGR2 PE=3  
 SV=1;tr|A0A5G2QVK4|A0A5G2QVK4\_PIG Synaptogyrin OS=Sus scrofa OX=9823 GN=SYNGR2  
 PE=3 SV=1  
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 2,2 2,2 2,2  
 50,568 0,0031746 2,0334 13563000 2 A0A287AD42;I3LSP1 A0A287AD42;I3LSP1  
 282 tr|A0A287AD42|A0A287AD42\_PIG Methionine aminopeptidase 2 OS=Sus scrofa OX=9823  
 GN=METAP2 PE=1 SV=1;tr|I3LSP1|I3LSP1\_PIG Methionine aminopeptidase 2 OS=Sus scrofa  
 OX=9823 GN=METAP2 PE=1 SV=2  
 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 3 3 3  
 72,496 0 2,9368 60209000 2  
 A0A5G2QEK1;A0A5G2QE98;A0A287BDZ6;A0A5G2QJI7;F1SFE3;A0A287AD53;A0A5G2QJL5  
 A0A5G2QEK1;A0A5G2QE98;A0A287BDZ6;A0A5G2QJI7;F1SFE3;A0A287AD53;A0A5G2QJL5  
 283 tr|A0A5G2QEK1|A0A5G2QEK1\_PIG Fermitin family member 2 OS=Sus scrofa OX=9823  
 GN=FERMT2 PE=1 SV=1;tr|A0A5G2QE98|A0A5G2QE98\_PIG Fermitin family member 2 OS=Sus  
 scrofa OX=9823 GN=FERMT2 PE=1 SV=1;tr|A0A287BDZ6|A0A287BDZ6\_PIG Fermitin family  
 member 2 OS=Sus scr  
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 4,1 4,1 4,1  
 28,027 0,0031315 1,9259 2050900 3 A0A287AD61 A0A287AD61 284  
 tr|A0A287AD61|A0A287AD61\_PIG B-cell receptor-associated protein OS=Sus scrofa OX=9823  
 GN=BCAP29 PE=1 SV=1  
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 5,1 5,1 5,1  
 24,289 0 4,2859 10241000 7 A0A287AD92 A0A287AD92 285  
 tr|A0A287AD92|A0A287AD92\_PIG GrpE protein homolog OS=Sus scrofa OX=9823  
 GN=GRPEL1 PE=1 SV=2  
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 4,5 4,5 4,5  
 25,887 0,0011628 2,806 10686000 2 F1S924;A0A287ADI3 F1S924;A0A287ADI3  
 286 tr|F1S924|F1S924\_PIG Coiled-coil domain containing 124 OS=Sus scrofa OX=9823  
 GN=CCDC124 PE=1 SV=1;tr|A0A287ADI3|A0A287ADI3\_PIG Coiled-coil domain containing 124  
 OS=Sus scrofa OX=9823 GN=CCDC124 PE=1 SV=1  
 13628000 15716000 32286000 24100000 28451000 35684000 16336000 22965000 32584000 15854000  
 34213000 55282000 16 16 16 29 29 29 70,122 0 81,532  
 1493900000 86 F1RGJ3;A0A287ADJ2 F1RGJ3;A0A287ADJ2 287 tr|F1RGJ3|F1RGJ3\_PIG  
 75 kDa glucose-regulated protein OS=Sus scrofa OX=9823 GN=HSPA9 PE=1  
 SV=4;tr|A0A287ADJ2|A0A287ADJ2\_PIG 75 kDa glucose-regulated protein OS=Sus scrofa OX=9823  
 GN=HSPA9 PE=1 SV=1

0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 15,8 15,8 15,8  
 16,838 0 26,168 178360000 11 A0A287ADK7 A0A287ADK7 288  
 tr|A0A287ADK7|A0A287ADK7\_PIG Mitochondrial fission 1 protein OS=Sus scrofa OX=9823  
 GN=FIS1 PE=1 SV=1  
 18949000 0 13872000 9726300 14037000 0 15780000 10400000 0 11441000 12491000 14659000  
 6 6 6 39,5 39,5 39,5 18,96 0 28,479 300850000 29  
 A4GR69;A0A287ADN4;A0A5G2RH32 A4GR69;A0A287ADN4;A0A5G2RH32 289  
 tr|A4GR69|A4GR69\_PIG Telethonin OS=Sus scrofa OX=9823 GN=TCAP PE=4  
 SV=1;tr|A0A287ADN4|A0A287ADN4\_PIG Titin-cap OS=Sus scrofa OX=9823 GN=TCAP PE=4  
 SV=1;tr|A0A5G2RH32|A0A5G2RH32\_PIG Titin-cap OS=Sus scrofa OX=9823 GN=TCAP PE=4 SV=1  
 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 25 25 25  
 14,632 0 5,6243 35776000 2  
 A0A5G2QJZ9;A0A480PK57;A0A5G2RHHV1;A0A287AWQ5;A0A287ADX8;A0A5G2R5K0  
 A0A5G2QJZ9;A0A480PK57;A0A5G2RHHV1;A0A287AWQ5;A0A287ADX8;A0A5G2R5K0 290  
 tr|A0A5G2QJZ9|A0A5G2QJZ9\_PIG SUZ domain-containing protein 1 OS=Sus scrofa OX=9823  
 GN=SZRD1 PE=3 SV=1;tr|A0A480PK57|A0A480PK57\_PIG SUZ domain-containing protein 1  
 OS=Sus scrofa OX=9823 GN=SZRD1 PE=3 SV=1;tr|A0A5G2RHHV1|A0A5G2RHHV1\_PIG SUZ domain-  
 containing p  
 11061000 10989000 38984000 0 4213500 0 0 0 3916300 5108000 3848900 0  
 6 6 6 29,8 29,8 29,8 26,562 0 46,193 284770000 18  
 A0A287AE80;A0A287BL83;A0A287BA90;A0A287BJQ5;A0A287AJT0;A0A5G2R336;Q28960;I3L  
 7L5;A0A287AAY9;A0A286ZID9  
 A0A287AE80;A0A287BL83;A0A287BA90;A0A287BJQ5;A0A287AJT0 291  
 tr|A0A287AE80|A0A287AE80\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
 GN=LOC110256483 PE=1 SV=1;tr|A0A287BL83|A0A287BL83\_PIG Uncharacterized protein OS=Sus  
 scrofa OX=9823 GN=LOC110256483 PE=1 SV=1;tr|A0A287BA90|A0A287BA90\_PIG Uncharacterized  
 protein O  
 3243900 8615800 31252000 5127500 20487000 25208000 3357700 8568300 29758000 7601100  
 25713000 55848000 5 5 5 14,8 14,8 14,8 42,007 0 17,597  
 803230000 40 A0A287AE88;F1SL07 A0A287AE88;F1SL07 292  
 tr|A0A287AE88|A0A287AE88\_PIG NADH:ubiquinone oxidoreductase subunit A9 OS=Sus  
 scrofa OX=9823 GN=NDUFA9 PE=1 SV=1;tr|F1SL07|F1SL07\_PIG NADH:ubiquinone  
 oxidoreductase subunit A9 OS=Sus scrofa OX=9823 GN=NDUFA9 PE=1 SV=3  
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 5,1 5,1 5,1  
 24,852 0,0030675 1,8033 23551000 8 A0A287AXK4;A0A287AEC1;A0A5G2R9Q5  
 A0A287AXK4;A0A287AEC1;A0A5G2R9Q5 293 tr|A0A287AXK4|A0A287AXK4\_PIG MOB  
 kinase activator 1A OS=Sus scrofa OX=9823 GN=MOB1A PE=4  
 SV=2;tr|A0A287AEC1|A0A287AEC1\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
 GN=MOB1B PE=4 SV=2;tr|A0A5G2R9Q5|A0A5G2R9Q5\_PIG Uncharacterized protein OS=Sus  
 scrofa O  
 7664200 0 3968000 0 0 0 0 0 0 0 0 0 2 2 2 5,9  
 5,9 5,9 37,011 0,0032189 2,1174 35722000 5 A0A287AEH0A0A287AEH0294



tr|A0A287AEH0|A0A287AEH0\_PIG Proteasome 26S subunit, non-ATPase 7 OS=Sus scrofa  
OX=9823 GN=PSMD7 PE=1 SV=1  
21556000 18762000 21588000 15255000 30313000 17098000 29499000 19199000 21054000 30534000  
17156000 24138000 6 6 6 16,7 16,7 16,7 43,714 0 20,477  
650690000 24 A0A287AEK2;P05207;A0A286ZNQ7 A0A287AEK2 296  
tr|A0A287AEK2|A0A287AEK2\_PIG cAMP-dependent protein kinase type II-alpha regulatory  
subunit OS=Sus scrofa OX=9823 GN=PRKAR2A PE=1 SV=1  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 6,7 6,7 6,7  
14,763 0,0031646 2,0066 136300000 12  
A0A5G2QBD4;F2Z5E6;A0A287AEM2;A0A287AKC0  
A0A5G2QBD4;F2Z5E6;A0A287AEM2;A0A287AKC0 298  
tr|A0A5G2QBD4|A0A5G2QBD4\_PIG Ribosomal protein S5 OS=Sus scrofa OX=9823 GN=RPS5  
PE=1 SV=1;tr|F2Z5E6|F2Z5E6\_PIG 40S ribosomal protein S5 OS=Sus scrofa OX=9823 GN=RPS5 PE=1  
SV=1;tr|A0A287AEM2|A0A287AEM2\_PIG 40S ribosomal protein S5 OS=Sus scrofa OX=9823 GN=R  
15218000 11230000 0 0 7421000 3734800 11653000 0 0 7276800 0 0  
2 2 1 5,6 5,6 2,9 42,602 0 7,3458 100440000 13  
A0A287AZH1;A0A287AEQ6;F1RYA4 A0A287AZH1;A0A287AEQ6;F1RYA4 299  
tr|A0A287AZH1|A0A287AZH1\_PIG Nucleosome assembly protein 1-like 4 OS=Sus scrofa  
OX=9823 GN=NAP1L4 PE=1 SV=1;tr|A0A287AEQ6|A0A287AEQ6\_PIG Nucleosome assembly  
protein 1 like 4 OS=Sus scrofa OX=9823 GN=NAP1L4 PE=1 SV=2;tr|F1RYA4|F1RYA4\_PIG  
Nucleosome assembly  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 8,9 8,9 8,9  
21,997 0 3,8163 93399000 5 A0A287AEV6 A0A287AEV6 300  
tr|A0A287AEV6|A0A287AEV6\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 PE=3  
SV=2  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 4,1 4,1 4,1  
31,307 0,0031447 1,9666 3178300 1 A0A5G2RB79;A0A287AF07  
A0A5G2RB79;A0A287AF07 301 tr|A0A5G2RB79|A0A5G2RB79\_PIG NAD-dependent protein  
deacylase sirtuin-5, mitochondrial OS=Sus scrofa OX=9823 GN=SIRT5 PE=1  
SV=1;tr|A0A287AF07|A0A287AF07\_PIG NAD-dependent protein deacylase sirtuin-5,  
mitochondrial OS=Sus scrofa OX=9823 GN=SIRT5 PE=1 SV=1  
0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 0,4 0,4 0,4  
521,82 0,0086538 1,3951 387060000 8 A0A287AF97;F1RFM8  
A0A287AF97;F1RFM8 302 tr|A0A287AF97|A0A287AF97\_PIG Dynein axonemal heavy chain  
10 OS=Sus scrofa OX=9823 GN=DNAH10 PE=3 SV=1;tr|F1RFM8|F1RFM8\_PIG Dynein axonemal  
heavy chain 10 OS=Sus scrofa OX=9823 GN=DNAH10 PE=3 SV=3  
0 8305500 8444800 0 6245200 6564900 0 5542700 8917200 0 6321300 9754400  
5 4 4 7 5,5 5,5 92,385 0 6,5889 147160000 11  
A0A287AFA5;Q29092;F1SRK6 A0A287AFA5;Q29092;F1SRK6 303  
tr|A0A287AFA5|A0A287AFA5\_PIG Endoplasmin OS=Sus scrofa OX=9823 GN=HSP90B1 PE=1  
SV=2;sp|Q29092|ENPL\_PIG Endoplasmin OS=Sus scrofa OX=9823 GN=HSP90B1 PE=2  
SV=3;tr|F1SRK6|F1SRK6\_PIG Endoplasmin OS=Sus scrofa OX=9823 GN=HSP90B1 PE=1 SV=4

0 0 0 0 0 0 0 0 0 0 0 0 0 7 1 1 28,8 3 3  
40,18 0,0022026 2,3453 60216000 3  
A0A287AJS8;A0A287AFM5;A0A287B220;K7GKG4;F1RTG8;K7GNK3  
A0A287AJS8;A0A287AFM5;A0A287B220;K7GKG4;F1RTG8;K7GNK3 304  
tr|A0A287AJS8|A0A287AJS8\_PIG Ig-like domain-containing protein OS=Sus scrofa OX=9823  
GN=LOC100513601 PE=1 SV=1;tr|A0A287AFM5|A0A287AFM5\_PIG Ig-like domain-containing  
protein OS=Sus scrofa OX=9823 GN=LOC100513601 PE=1 SV=1;tr|A0A287B220|A0A287B220\_PIG  
Ig-li  
7146700 7331900 4032000 9758400 5694400 6504200 12983000 0 10120000 16337000 0  
4383800 7 7 7 16,5 16,5 16,5 52,155 0 13,417 248080000 30  
K7GQF6;A0A287AFW2;A5GFT5;A0A481CXF3 K7GQF6;A0A287AFW2;A5GFT5;A0A481CXF3  
305 tr|K7GQF6|K7GQF6\_PIG Aminopeptidase like 1 OS=Sus scrofa OX=9823 GN=NPEPL1  
PE=1 SV=1;tr|A0A287AFW2|A0A287AFW2\_PIG Aminopeptidase like 1 OS=Sus scrofa OX=9823  
GN=NPEPL1 PE=1 SV=2;tr|A5GFT5|A5GFT5\_PIG Aminopeptidase-like 1 OS=Sus scrofa OX=9823  
GN=NPEPL1 PE=  
0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 16,4 16,4 16,4  
12,618 0 53,037 21760000 2 A0A287AI10;A0A287AG00 A0A287AI10;A0A287AG00  
306 tr|A0A287AI10|A0A287AI10\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 PE=1  
SV=1;tr|A0A287AG00|A0A287AG00\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 PE=1  
SV=2  
2625500 0 5352700 0 0 4104400 4372300 0 0 0 0 0 3 3  
3 14,1 14,1 14,1 22,513 0 3,6281 47153000 10 A0A287AG70;Q8MJ14  
A0A287AG70;Q8MJ14 307 tr|A0A287AG70|A0A287AG70\_PIG Glutathione peroxidase  
OS=Sus scrofa OX=9823 GN=GPX1 PE=3 SV=2;sp|Q8MJ14|GPX1\_PIG Glutathione peroxidase 1  
OS=Sus scrofa OX=9823 GN=GPX1 PE=2 SV=2  
485150000 178740000 122720000 393950000 193000000 169710000 543820000  
165280000 154650000 349650000 150920000 56050000 6 6 6  
38,2 38,2 38,2 20,9 0 37,944 960520000 281 A0A287AGJ6;Q4JH15;A0A287AVB7  
A0A287AGJ6;Q4JH15;A0A287AVB7 308 tr|A0A287AGJ6|A0A287AGJ6\_PIG Troponin I2, fast  
skeletal type OS=Sus scrofa OX=9823 GN=TNNI2 PE=4 SV=1;tr|Q4JH15|Q4JH15\_PIG Troponin I  
OS=Sus scrofa OX=9823 GN=TNNI2 PE=2 SV=1;tr|A0A287AVB7|A0A287AVB7\_PIG Troponin I2,  
fast skeletal type OS=Sus scrofa OX=982  
0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 2,5 2,5 2,5  
48,767 0,0011507 2,7415 31610000 4 A0A287AGM8;Q29381 A0A287AGM8;Q29381  
309 tr|A0A287AGM8|A0A287AGM8\_PIG Dolichyl-diphosphooligosaccharide--protein  
glycosyltransferase 48 kDa subunit OS=Sus scrofa OX=9823 GN=DDOST PE=1  
SV=1;sp|Q29381|OST48\_PIG Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 48  
kDa subunit OS=Sus scr  
127500000 187810000 474300000 96310000 325370000 353400000 85062000  
165500000 264410000 89006000 319910000 645270000 21 21 21  
35,8 35,8 35,8 58,254 0 129,35 22730000000 389  
F1RPS8;A0A287AGU2;P80021;A0A287BBS4;A0A5G2QY15;F1RPT1;A0A5G2R5C5;A0A287A87  
4;A0A287BRD5

F1RPS8;A0A287AGU2;P80021;A0A287BBS4;A0A5G2QY15;F1RPT1;A0A5G2R5C5;A0A287A874;A0A287BRD5 310 tr|F1RPS8|F1RPS8\_PIG ATP synthase subunit alpha OS=Sus scrofa OX=9823 GN=ATP5F1A PE=1 SV=3;tr|A0A287AGU2|A0A287AGU2\_PIG ATP synthase subunit alpha OS=Sus scrofa OX=9823 GN=ATP5F1A PE=1 SV=1;sp|P80021|ATPA\_PIG ATP synthase subunit alpha, mitochondrial OS=Su

5761400 4623600 7285900 11595000 11042000 9939300 9177700 5692200 8577100 11310000  
11574000 15633000 5 5 5 26,5 26,5 26,5 25,64 0 18,582  
343940000 24  
A0A287AH85;A0A5G2QKQ8;A0A5G2QNB5;A0A5G2Q7V3;A0A5G2R079;A0A5G2QK65  
A0A287AH85;A0A5G2QKQ8;A0A5G2QNB5;A0A5G2Q7V3;A0A5G2R079;A0A5G2QK65 311  
tr|A0A287AH85|A0A287AH85\_PIG Adenylate kinase 2, mitochondrial OS=Sus scrofa OX=9823 GN=AK2 PE=1 SV=1;tr|A0A5G2QKQ8|A0A5G2QKQ8\_PIG Adenylate kinase 2, mitochondrial OS=Sus scrofa OX=9823 GN=AK2 PE=1 SV=1;tr|A0A5G2QNB5|A0A5G2QNB5\_PIG Adenylate kinase 2, mit

10482000 10240000 18827000 14273000 6859100 20633000 14179000 11991000 15334000 17245000  
8557900 14784000 4 4 4 18,9 18,9 18,9 26,369 0 30,982  
344440000 24 Q6PP07;A0A287AHI7;A0A287ASX3 Q6PP07;A0A287AHI7;A0A287ASX3  
312 tr|Q6PP07|Q6PP07\_PIG Adiponectin OS=Sus scrofa OX=9823 GN=ADIPOQ PE=1 SV=1;tr|A0A287AHI7|A0A287AHI7\_PIG Adiponectin, C1Q and collagen domain containing OS=Sus scrofa OX=9823 GN=ADIPOQ PE=1 SV=1;tr|A0A287ASX3|A0A287ASX3\_PIG Adiponectin, C1Q and collagen dom

14591000 10190000 8385100 15043000 0 17116000 17366000 0 8657800 16962000 10309000  
9662300 6 6 6 16,8 16,8 16,8 48,152 0 18,212 346260000 31  
I3LN42;A0A287AHK1;CON\_\_Q3MHN5;CON\_\_ENSEMBL:ENSBTAP00000018229  
I3LN42;A0A287AHK1 313 tr|I3LN42|I3LN42\_PIG Gc-globulin OS=Sus scrofa OX=9823 GN=GC PE=1 SV=3;tr|A0A287AHK1|A0A287AHK1\_PIG Gc-globulin OS=Sus scrofa OX=9823 GN=GC PE=1 SV=1

188760000 131300000 73444000 132980000 54034000 59775000 202880000 55355000  
67679000 152120000 42807000 41967000 10 9 9 56,8 52 52 16,706  
0 55,298 3347300000 130  
A0A287AHS0;F2Z5G3;A0A5G2QWK6;A0A5G2QTD3;A0A287AUG4;A0A5G2Q7N5;A0A5G2QEH3;F1S145;A0A287B857;A0A287ANW8;A0A287AUC1  
A0A287AHS0;F2Z5G3;A0A5G2QWK6;A0A5G2QTD3;A0A287AUG4;A0A5G2Q7N5;A0A5G2QEH3;F1S145 314 tr|A0A287AHS0|A0A287AHS0\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 GN=CALM3 PE=1 SV=1;tr|F2Z5G3|F2Z5G3\_PIG Calmodulin-2 isoform 1 OS=Sus scrofa OX=9823 GN=STPG4 PE=1 SV=1;tr|A0A5G2QWK6|A0A5G2QWK6\_PIG Calmodulin OS=Sus scrofa OX=9823 GN=CALM3 PE=1 S

4430700 27544000 14980000 0 0 0 0 0 0 0 0 6 6 3  
15,3 15,3 7 52,175 0 10,785 117940000 11  
A0A5G2QS23;A0A287AHX0;A0A5G2R491;A0A5G2R4J6;A0A2C9F383;Q95266;A0A5G2QQ20;A0A5G2RCS0;A0A5G2QUE4  
A0A5G2QS23;A0A287AHX0;A0A5G2R491;A0A5G2R4J6;A0A2C9F383;Q95266;A0A5G2QQ20;A0A5G2RCS0;A0A5G2QUE4 315 tr|A0A5G2QS23|A0A5G2QS23\_PIG Calcium/calmodulin-

dependent protein kinase OS=Sus scrofa OX=9823 GN=CAMK2D PE=3  
SV=1;tr|A0A287AHX0|A0A287AHX0\_PIG Calcium/calmodulin-dependent protein kinase OS=Sus  
scrofa OX=9823 GN=CAMK2D PE=3 SV=2;tr|A0A5G2R491|A0A5G2R491\_P  
0 3215800 0 0 0 0 0 0 5716800 0 0 0 3 3 3 3,1  
3,1 3,1 114,95 0 4,3209 36603000 6 A0A287AKY9;A0A287AI85  
A0A287AKY9;A0A287AI85 316 tr|A0A287AKY9|A0A287AKY9\_PIG Formin homology 2  
domain containing 1 OS=Sus scrofa OX=9823 GN=FHOD1 PE=1  
SV=1;tr|A0A287AI85|A0A287AI85\_PIG Formin homology 2 domain containing 1 OS=Sus scrofa  
OX=9823 GN=FHOD1 PE=1 SV=2  
306310000 82302000 408100000 872220000 310600000 517210000 679110000  
174250000 174920000 352150000 208720000 610590000 23 13  
0 53,9 33,1 0 32,929 0 118,3 10043000000 202  
A0A287AID2;A0A5G2RN24;A0A5G2RJ89 A0A287AID2;A0A5G2RN24;A0A5G2RJ89 317  
tr|A0A287AID2|A0A287AID2\_PIG Tropomyosin alpha-3 chain OS=Sus scrofa OX=9823  
GN=TPM3 PE=1 SV=1;tr|A0A5G2RN24|A0A5G2RN24\_PIG Tropomyosin alpha-3 chain OS=Sus  
scrofa OX=9823 GN=TPM3 PE=1 SV=1;tr|A0A5G2RJ89|A0A5G2RJ89\_PIG Tropomyosin alpha-3  
chain OS=Sus scro  
83907000 27445000 61754000 8929000 32789000 31228000 23282000 20687000 41018000 24913000  
24678000 51866000 14 14 13 23,1 23,1 22 67,554 0 71,923  
2300600000 110 A0A287AIE4;A0A287BIK3;A0A5G2R498 A0A287AIE4;A0A287BIK3 318  
tr|A0A287AIE4|A0A287AIE4\_PIG BTB domain-containing protein OS=Sus scrofa OX=9823  
GN=KLHL41 PE=1 SV=2;tr|A0A287BIK3|A0A287BIK3\_PIG BTB domain-containing protein OS=Sus  
scrofa OX=9823 GN=KLHL41 PE=1 SV=1  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 2,6 2,6 2,6  
38,663 0,0031881 2,0523 30570000 4 A0A287AIE6 A0A287AIE6 319  
tr|A0A287AIE6|A0A287AIE6\_PIG ATPase GET3 OS=Sus scrofa OX=9823 GN=GET3 PE=1 SV=2  
27174000 17867000 39850000 37032000 27422000 33371000 42961000 16366000 19819000 42644000  
15125000 47855000 2 2 2 4,9 4,9 4,9 45,938 0 4,2462  
644400000 17 A0A287AIJ7;A0A5K1VA80;A0A5K1VA81;Q3HUX1;K7GQE1;A0A5G2QC71  
A0A287AIJ7;A0A5K1VA80;A0A5K1VA81;Q3HUX1;K7GQE1;A0A5G2QC71 320  
tr|A0A287AIJ7|A0A287AIJ7\_PIG Glycoprotein IIIb OS=Sus scrofa OX=9823 GN=CD36 PE=1  
SV=1;tr|A0A5K1VA80|A0A5K1VA80\_PIG Glycoprotein IIIb OS=Sus scrofa OX=9823 GN=CD36  
PE=1 SV=1;tr|A0A5K1VA81|A0A5K1VA81\_PIG Glycoprotein IIIb OS=Sus scrofa OX=9823  
GN=CD36 PE=1  
16403000 12311000 14839000 0 12630000 0 0 0 0 0 0 6 6  
6 12,6 12,6 12,6 42,921 0 12,821 165220000 14  
P07802;A0A287AKY1;A0A287AJA4 P07802;A0A287AKY1;A0A287AJA4 321  
sp|P07802|KAP0\_PIG cAMP-dependent protein kinase type I-alpha regulatory subunit OS=Sus  
scrofa OX=9823 GN=PRKAR1A PE=1 SV=2;tr|A0A287AKY1|A0A287AKY1\_PIG cAMP-dependent  
protein kinase type I-alpha regulatory subunit OS=Sus scrofa OX=9823 GN=PRKAR1A PE=3 SV=  
0 4599800 6248800 6400900 0 6219500 0 0 6115000 6248300 0 0  
2 2 2 15,2 15,2 15,2 17,818 0 5,9263 106320000 8  
A0A5G2R7M9;A0A287AJH8;A0A5G2R3M1;A0A5G2QR46;A0A288CG20;A0A287AP66;I3LBH4

A0A5G2R7M9;A0A287AJH8;A0A5G2R3M1;A0A5G2QR46;A0A288CG20;A0A287AP66;I3LBH4  
 322 tr|A0A5G2R7M9|A0A5G2R7M9\_PIG 60S ribosomal protein L12 OS=Sus scrofa OX=9823  
 GN=RPL12 PE=1 SV=1;tr|A0A287AJH8|A0A287AJH8\_PIG 60S ribosomal protein L12 OS=Sus scrofa  
 OX=9823 GN=RPL12 PE=1 SV=1;tr|A0A5G2R3M1|A0A5G2R3M1\_PIG 60S ribosomal protein L12  
 OS=Sus sc  
 0 0 0 0 0 0 0 0 0 0 0 0 5 1 1 18,9 6,3 6,3  
 28,804 0 14,387 61701000 9 A0A287AJQ2 A0A287AJQ2 323  
 tr|A0A287AJQ2|A0A287AJQ2\_PIG Phosphoglycerate mutase OS=Sus scrofa OX=9823  
 GN=PGAM1 PE=1 SV=1  
 26410000 11295000 37225000 22809000 40618000 28782000 28443000 33418000 20346000 39888000  
 55336000 59292000 13 13 13 23,6 23,6 23,6 70,759 0 72,444  
 1917000000 116 A0A287AJY7;F1RH92 A0A287AJY7;F1RH92 324  
 tr|A0A287AJY7|A0A287AJY7\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
 GN=MYOT PE=4 SV=2;tr|F1RH92|F1RH92\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
 GN=MYOT PE=4 SV=2  
 8875500 5392500 5828300 7526000 4417500 6460000 12192000 0 5085600 11210000 0  
 4565800 8 4 4 13,2 6,8 6,8 67,66 0 11,044 183810000 27  
 P26042;A0A287BED9;F1RTN3;A0A287AK19;A0A5G2R8G3  
 P26042;A0A287BED9;F1RTN3;A0A287AK19;A0A5G2R8G3 325 sp|P26042|MOES\_PIG  
 Moesin OS=Sus scrofa OX=9823 GN=MSN PE=2 SV=3;tr|A0A287BED9|A0A287BED9\_PIG Moesin  
 OS=Sus scrofa OX=9823 GN=MSN PE=1 SV=2;tr|F1RTN3|F1RTN3\_PIG Moesin OS=Sus scrofa  
 OX=9823 GN=MSN PE=1 SV=3;tr|A0A287AK19|A0A287AK19\_PIG Moesin OS=Sus scrofa  
 9380700 0 8761300 13478000 4491900 6283900 14398000 0 6573200 12003000 0 11730000  
 5 5 5 24,6 24,6 24,6 22,377 0 11,022 246790000 21  
 A0A287AK21;A0A287BK36;F1RJ93;A0A287AIA2;A0A286ZN10  
 A0A287AK21;A0A287BK36;F1RJ93;A0A287AIA2 326 tr|A0A287AK21|A0A287AK21\_PIG  
 Transgelin OS=Sus scrofa OX=9823 GN=TAGLN2 PE=1 SV=1;tr|A0A287BK36|A0A287BK36\_PIG  
 Transgelin OS=Sus scrofa OX=9823 GN=TAGLN2 PE=1 SV=1;tr|F1RJ93|F1RJ93\_PIG Transgelin  
 OS=Sus scrofa OX=9823 GN=TAGLN2 PE=1 SV=3;tr|A0A287AIA2|A0A2  
 15957000 4195100 8386100 13178000 6327400 21828000 12113000 0 17180000 26275000 6017500  
 13480000 9 9 9 12,1 12,1 12,1 86,156 0 28,645 618030000 52  
 A0A287AKQ1;A0A287B0G1;A0A287B6D7;A0A287B794;A0A287AYR9;A0A287B3U0;A0A287B  
 Q55  
 A0A287AKQ1;A0A287B0G1;A0A287B6D7;A0A287B794;A0A287AYR9;A0A287B3U0;A0A287B  
 Q55 327 tr|A0A287AKQ1|A0A287AKQ1\_PIG Sarcolemma associated protein OS=Sus scrofa  
 OX=9823 GN=SLMAP PE=4 SV=2;tr|A0A287B0G1|A0A287B0G1\_PIG Sarcolemma associated  
 protein OS=Sus scrofa OX=9823 GN=SLMAP PE=4 SV=1;tr|A0A287B6D7|A0A287B6D7\_PIG  
 Sarcolemma associated prote  
 0 0 28880000 0 0 12085000 0 0 5423300 0 0 7323500 2 2  
 2 9,9 9,9 9,9 21,185 0,0021978 2,3387 133680000 7 A0A287AL10  
 A0A287AL10 328 tr|A0A287AL10|A0A287AL10\_PIG Ferritin OS=Sus scrofa OX=9823  
 GN=FTTH1 PE=1 SV=2

0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 2,3 2,3 2,3  
 122,72 0 3,1587 51425000 5  
 A0A5G2R7W5;F1RLQ9;I3LEY6;A0A287BD60;A0A287AL38;A0A287AIK6  
 A0A5G2R7W5;F1RLQ9;I3LEY6;A0A287BD60;A0A287AL38 329  
 tr|A0A5G2R7W5|A0A5G2R7W5\_PIG Tripeptidyl-peptidase 2 OS=Sus scrofa OX=9823  
 GN=TPP2 PE=1 SV=1;tr|F1RLQ9|F1RLQ9\_PIG Tripeptidyl-peptidase 2 OS=Sus scrofa OX=9823  
 GN=TPP2 PE=1 SV=4;tr|I3LEY6|I3LEY6\_PIG Tripeptidyl-peptidase 2 OS=Sus scrofa OX=9823  
 GN=TPP2 PE=  
 281500000 26464000 5202000 39194000 3389100 2752500 118380000 7329100 0  
 220870000 2950900 0 4 4 4 33,3 33,3 33,3 15,218 0 21,157  
 210290000 57 A0A287ALJ2 A0A287ALJ2 331 tr|A0A287ALJ2|A0A287ALJ2\_PIG  
 Parvalbumin OS=Sus scrofa OX=9823 GN=PVALB PE=1 SV=1  
 17613000 13826000 19999000 18626000 10564000 22108000 23269000 7637100 15825000 23272000  
 11415000 10271000 8 8 8 13 13 13 78,227 0 27,58  
 626460000 52  
 A8D737;A0A287ALP4;A0A5G2QF74;A0A5G2Q9R1;A0A5G2QBL3;A0A5G2QB64;A0A5G2QPP  
 8 A8D737;A0A287ALP4;A0A5G2QF74;A0A5G2Q9R1;A0A5G2QBL3;A0A5G2QB64 332  
 tr|A8D737|A8D737\_PIG Cadherin-13 OS=Sus scrofa OX=9823 GN=CDH13 PE=1  
 SV=1;tr|A0A287ALP4|A0A287ALP4\_PIG Cadherin-13 OS=Sus scrofa OX=9823 GN=CDH13 PE=1  
 SV=1;tr|A0A5G2QF74|A0A5G2QF74\_PIG Cadherin-13 OS=Sus scrofa OX=9823 GN=CDH13 PE=1  
 SV=1;tr|A0A5G2Q9R1|A0A5  
 0 0 0 0 0 0 0 0 0 0 0 0 49 1 0 26,5 0,6 0  
 223 0,0032328 2,13 250670000 11  
 A0A287AMA4;A0A5G2QRY9;F1SS62;A0A5G2QLY9;A0A5G2R196  
 A0A287AMA4;A0A5G2QRY9;F1SS62;A0A5G2QLY9;A0A5G2R196 333  
 tr|A0A287AMA4|A0A287AMA4\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
 GN=MYH8 PE=3 SV=2;tr|A0A5G2QRY9|A0A5G2QRY9\_PIG Uncharacterized protein OS=Sus scrofa  
 OX=9823 GN=MYH8 PE=3 SV=1;tr|F1SS62|F1SS62\_PIG Uncharacterized protein OS=Sus scrofa  
 OX=9823 GN=  
 10352000 15247000 31724000 5621700 20822000 22126000 3782800 14194000 24406000 14725000  
 26989000 56664000 20 20 20 27,1 27,1 27,1 81,521 0 74,787  
 159280000 102  
 A0A5G2QM23;A0A287AMM6;A0A287A2N6;I3LSM7;A0A5G2QEH4;A0A5G2QII1  
 A0A5G2QM23;A0A287AMM6;A0A287A2N6;I3LSM7;A0A5G2QEH4 334  
 tr|A0A5G2QM23|A0A5G2QM23\_PIG MICOS complex subunit MIC60 OS=Sus scrofa OX=9823  
 GN=IMMT PE=1 SV=1;tr|A0A287AMM6|A0A287AMM6\_PIG MICOS complex subunit MIC60  
 OS=Sus scrofa OX=9823 GN=IMMT PE=1 SV=1;tr|A0A287A2N6|A0A287A2N6\_PIG MICOS  
 complex subunit MIC60 OS=Su  
 0 25515000 26869000 41326000 20688000 30257000 22709000 45793000 66346000 44921000 40501000  
 63341000 2 2 2 16,3 16,3 16,3 16,465 0 4,9591 652500000 21  
 I3LQ38;A0A5G2QZZ2;A0A287AMN2I3LQ38;A0A5G2QZZ2;A0A287AMN2335  
 tr|I3LQ38|I3LQ38\_PIG NADH dehydrogenase [ubiquinone] iron-sulfur protein 4,  
 mitochondrial OS=Sus scrofa OX=9823 GN=NDUFS4 PE=1

SV=2;tr|A0A5G2QZZ2|A0A5G2QZZ2\_PIG NADH dehydrogenase [ubiquinone] iron-sulfur protein 4, mitochondrial OS=Sus scrofa OX=9823 GN=N

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1,2 1,2 1,2  
110,22 0,0022002 2,3435 13749000000 25 I3LVA1;A0A287AMT7

I3LVA1;A0A287AMT7 336 tr|I3LVA1|I3LVA1\_PIG HECT and RLD domain containing E3 ubiquitin protein ligase family member 6 OS=Sus scrofa OX=9823 GN=HERC6 PE=4 SV=2;tr|A0A287AMT7|A0A287AMT7\_PIG HECT and RLD domain containing E3 ubiquitin protein ligase family member 6 OS=Sus scrofa O

3893600 9706100 7439000 4932600 7020700 8464900 3426000 9311900 8762700 2611200  
6521800 7351300 8 8 8 15 15 15 56,55 0 15,605

293760000 44 A0A5G2Q9C7;A0A5G2R2Z6;A0A287AMZ2;A0A287AUX8;F1RP17  
A0A5G2Q9C7;A0A5G2R2Z6;A0A287AMZ2;A0A287AUX8;F1RP17 337

tr|A0A5G2Q9C7|A0A5G2Q9C7\_PIG T-complex protein 1 subunit gamma OS=Sus scrofa OX=9823 GN=CCT3 PE=1 SV=1;tr|A0A5G2R2Z6|A0A5G2R2Z6\_PIG T-complex protein 1 subunit gamma OS=Sus scrofa OX=9823 GN=CCT3 PE=1 SV=1;tr|A0A287AMZ2|A0A287AMZ2\_PIG T-complex protein 1 s

6714300 10090000 25445000 10154000 26206000 20549000 7457900 12756000 16518000 9022200  
27525000 41700000 8 8 8 26,4 26,4 26,4 34,106 0 34,52

1371700000 78 A0A287AN76;A0A5G2QT96;F1RFX9;A0A5G2QC86

A0A287AN76;A0A5G2QT96;F1RFX9;A0A5G2QC86 339 tr|A0A287AN76|A0A287AN76\_PIG Mitochondrial 2-oxoglutarate/malate carrier protein isoform 1 OS=Sus scrofa OX=9823 GN=SLC25A11 PE=1 SV=1;tr|A0A5G2QT96|A0A5G2QT96\_PIG Solute carrier family 25 member 11 OS=Sus scrofa OX=9823 GN=SLC25A11 PE=1 SV=1;tr|F1RFX9|F1R

0 0 10183000 0 4880500 16854000 0 1575800 3335000 0 2186600 20564000  
12 12 12 10 10 10 157,18 0 62,337 363380000 29

A0A5G2Q795;A0A287BKL4;A0A287ANE3A0A5G2Q795;A0A287BKL4;A0A287ANE3340

tr|A0A5G2Q795|A0A5G2Q795\_PIG Myomesin 3 OS=Sus scrofa OX=9823 GN=MYOM3 PE=4 SV=1;tr|A0A287BKL4|A0A287BKL4\_PIG Myomesin 3 OS=Sus scrofa OX=9823 GN=MYOM3 PE=4 SV=2;tr|A0A287ANE3|A0A287ANE3\_PIG Myomesin 3 OS=Sus scrofa OX=9823 GN=MYOM3 PE=4 SV=1

1511500000 1088800000 563570000 1577200000 1031900000 655970000 1871300000  
616890000 746080000 1159100000 840090000 301110000 5 1

1 15,6 2,3 2,3 42,649 0 15,555 21984000000 218

A0A287ANH6;A0A287AVF3;I3LCN1 A0A287ANH6;A0A287AVF3;I3LCN1 341

tr|A0A287ANH6|A0A287ANH6\_PIG 2-phospho-D-glycerate hydro-lyase OS=Sus scrofa OX=9823 GN=ENO2 PE=1 SV=2;tr|A0A287AVF3|A0A287AVF3\_PIG 2-phospho-D-glycerate hydro-lyase OS=Sus scrofa OX=9823 GN=ENO2 PE=1 SV=2;tr|I3LCN1|I3LCN1\_PIG 2-phospho-D-glycerate hydro-l

0 0 0 0 0 0 0 0 0 0 0 0 5 1 1 18,3 2,8 2,8  
34,393 0 3,8086 221050000 3 A0A287ANN7;F1SEV8;I3LT08

A0A287ANN7;F1SEV8;I3LT08 342 tr|A0A287ANN7|A0A287ANN7\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 GN=EEF1D PE=1 SV=2;tr|F1SEV8|F1SEV8\_PIG Uncharacterized

protein OS=Sus scrofa OX=9823 GN=EEF1D PE=1 SV=4;tr|I3LT08|I3LT08\_PIG Uncharacterized  
protein OS=Sus scrofa OX=9823 GN=EEF1D  
0 0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 10,2 10,2 10,2  
29,974 0,0022148 2,3723 137960000 4  
A0A5G2RIJ3;A9XFX6;A0A287AXJ3;A0A288CG52;A0PFK7;A0A287AP52;A0A5K1U188  
A0A5G2RIJ3;A9XFX6;A0A287AXJ3;A0A288CG52;A0PFK7;A0A287AP52;A0A5K1U188 343  
tr|A0A5G2RIJ3|A0A5G2RIJ3\_PIG F-actin-capping protein subunit beta OS=Sus scrofa OX=9823  
GN=CAPZB PE=1 SV=1;tr|A9XFX6|A9XFX6\_PIG F-actin-capping protein subunit beta OS=Sus  
scrofa OX=9823 GN=CAPZB PE=1 SV=1;tr|A0A287AXJ3|A0A287AXJ3\_PIG F-actin-capping prote  
0 30808000 57548000 0 39218000 33720000 0 45221000 35664000 16852000 55695000 50560000  
2 2 2 2,5 2,5 2,5 114,6 0,0031813 2,037 557420000 11  
F1S6A0;A0A5G2R4T4;A0A287APG7;A0A5G2RFA4;A0A5G2R3C6  
F1S6A0;A0A5G2R4T4;A0A287APG7;A0A5G2RFA4;A0A5G2R3C6 344  
tr|F1S6A0|F1S6A0\_PIG Axonemal dynein light chain domain containing 1 OS=Sus scrofa  
OX=9823 GN=AXDND1 PE=4 SV=4;tr|A0A5G2R4T4|A0A5G2R4T4\_PIG Axonemal dynein light  
chain domain containing 1 OS=Sus scrofa OX=9823 GN=AXDND1 PE=4  
SV=1;tr|A0A287APG7|A0A287APG7\_P  
12668000 0 8191500 0 0 8670300 0 0 0 0 0 0 2 2 2  
12,4 12,4 12,4 23,276 0 11,197 66834000 7 A0A5G2QQY5;I3LL97;A0A287APN0  
A0A5G2QQY5;I3LL97;A0A287APN0 345 tr|A0A5G2QQY5|A0A5G2QQY5\_PIG Cysteine and  
glycine rich protein 1 OS=Sus scrofa OX=9823 GN=CSRP1 PE=1 SV=1;tr|I3LL97|I3LL97\_PIG Cysteine  
and glycine rich protein 1 OS=Sus scrofa OX=9823 GN=CSRP1 PE=1  
SV=2;tr|A0A287APN0|A0A287APN0\_PIG Cysteine and glycine ri  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 9,5 9,5 9,5  
16,177 0,0031612 1,9972 14123000 1 F1S935;A0A287APR1 F1S935;A0A287APR1  
346 tr|F1S935|F1S935\_PIG 60S ribosomal protein L18a OS=Sus scrofa OX=9823 GN=RPL18A  
PE=1 SV=4;tr|A0A287APR1|A0A287APR1\_PIG 60S ribosomal protein L18a OS=Sus scrofa OX=9823  
GN=RPL18A PE=1 SV=1  
22880000 21030000 21175000 16764000 17894000 23744000 23561000 22991000 24467000 26705000  
18930000 13747000 6 6 6 16,5 16,5 16,5 48,75 0 26,719  
498330000 25 A0A287AR93;A0A287AQ12;F1SIC0;A0A287ATC5;A0A287BQ85  
A0A287AR93;A0A287AQ12;F1SIC0;A0A287ATC5;A0A287BQ85 347  
tr|A0A287AR93|A0A287AR93\_PIG Protein kinase C and casein kinase substrate in neurons 3  
OS=Sus scrofa OX=9823 GN=PACSIN3 PE=1 SV=1;tr|A0A287AQ12|A0A287AQ12\_PIG Protein  
kinase C and casein kinase substrate in neurons 3 OS=Sus scrofa OX=9823 GN=PACSIN3 PE=1 S  
29436000 11730000 14595000 10825000 0 11760000 23408000 17045000 12344000 35040000 6490900  
13252000 5 5 5 21,9 21,9 21,9 30,2 0 16,731 393960000 28  
A0A287AQC2;E7EI20;A0A287BSV0 A0A287AQC2;E7EI20;A0A287BSV0 348  
tr|A0A287AQC2|A0A287AQC2\_PIG Rho GDP dissociation inhibitor alpha OS=Sus scrofa  
OX=9823 GN=ARHGDIA PE=3 SV=1;tr|E7EI20|E7EI20\_PIG Rho GDP dissociation inhibitor alpha  
OS=Sus scrofa OX=9823 GN=ARHGDIA PE=2 SV=1;tr|A0A287BSV0|A0A287BSV0\_PIG Rho GDP  
dissociat



2978600 24643000 69312000 5754600 58117000 69251000 3152800 33696000 51692000 7845300  
59179000 143300000 29 29 29 27,5 27,5 27,5 113,89 0 120,87  
6403200000 196 F1SMG3;A0A287B1U9;A0A287AQG1;A0A286ZZT0  
F1SMG3;A0A287B1U9;A0A287AQG1;A0A286ZZT0 349 tr|F1SMG3|F1SMG3\_PIG Proton-  
translocating NAD(P)(+) transhydrogenase OS=Sus scrofa OX=9823 GN=NNT PE=1  
SV=2;tr|A0A287B1U9|A0A287B1U9\_PIG Proton-translocating NAD(P)(+) transhydrogenase  
OS=Sus scrofa OX=9823 GN=NNT PE=1 SV=1;tr|A0A287AQG1|A0A287AQG1\_PIG Pro  
14030000 0 12311000 37753000 0 13148000 30631000 0 7661900 45610000 0 10855000  
8 8 2 32,4 32,4 6,6 39,979 0 98,575 740980000 29 A0A287AQG3  
A0A287AQG3 350 tr|A0A287AQG3|A0A287AQG3\_PIG Ig-like domain-containing  
protein OS=Sus scrofa OX=9823 GN=LOC100513601 PE=1 SV=1  
0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 4,1 4,1 4,1  
62,656 0,0087634 1,4575 3816700 2 A0A287BGU5;A0A287AQG4;F2Z5D4  
A0A287BGU5;A0A287AQG4;F2Z5D4 351 tr|A0A287BGU5|A0A287BGU5\_PIG  
Uncharacterized protein OS=Sus scrofa OX=9823 GN=SYNCRIP PE=1  
SV=1;tr|A0A287AQG4|A0A287AQG4\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
GN=SYNCRIP PE=1 SV=2;tr|F2Z5D4|F2Z5D4\_PIG Uncharacterized protein OS=Sus scrofa OX=98  
43469000 81844000 50687000 5694900 73777000 13204000 23367000 44926000 31924000 11479000  
33156000 22735000 20 20 12 30,2 30,2 18,4 84,774 0 120,29  
3245700000 133 O02705;A0A287B8J5;A0A287AQK7 O02705;A0A287B8J5;A0A287AQK7  
352 sp|O02705|HS90A\_PIG Heat shock protein HSP 90-alpha OS=Sus scrofa OX=9823  
GN=HSP90AA1 PE=2 SV=3;tr|A0A287B8J5|A0A287B8J5\_PIG Heat shock protein HSP 90-alpha  
OS=Sus scrofa OX=9823 GN=HSP90AA1 PE=3 SV=2;tr|A0A287AQK7|A0A287AQK7\_PIG Heat  
shock protein HSP 90-  
82919000 26719000 155120000 17159000 61482000 84578000 14635000 20386000 57916000 49634000  
60743000 159720000 5 5 5 38,5 38,5 38,5 16,75 0 23,807  
2153700000 60 F1RM62;A0A287AQR8 F1RM62;A0A287AQR8 353  
tr|F1RM62|F1RM62\_PIG Heat shock protein family B (small) member 6 OS=Sus scrofa OX=9823  
GN=HSPB6 PE=1 SV=2;tr|A0A287AQR8|A0A287AQR8\_PIG Heat shock protein family B (small)  
member 6 OS=Sus scrofa OX=9823 GN=HSPB6 PE=1 SV=1  
0 0 0 0 4431000 0 0 0 0 0 4450400 7958600 3 3 3  
6,9 6,9 6,9 53,427 0 6,6707 47000000 12  
A0A5G2QIN8;A0A287AXP0;A0A287AR05;F1RUE3  
A0A5G2QIN8;A0A287AXP0;A0A287AR05;F1RUE3 354 tr|A0A5G2QIN8|A0A5G2QIN8\_PIG  
Aldehyde dehydrogenase 5 family member A1 OS=Sus scrofa OX=9823 GN=ALDH5A1 PE=1  
SV=1;tr|A0A287AXP0|A0A287AXP0\_PIG Succinate-semialdehyde dehydrogenase OS=Sus scrofa  
OX=9823 GN=ALDH5A1 PE=1 SV=1;tr|A0A287AR05|A0A287AR05\_PIG Succ  
31925000 73395000 120770000 0 35880000 40995000 0 19630000 22390000 0 31912000  
109850000 12 12 12 27,2 27,2 27,2 43,811 0 41,155 1471500000  
44 F1RK10;A0A287AR48;O97580 F1RK10;A0A287AR48;O97580 355  
tr|F1RK10|F1RK10\_PIG Succinate--CoA ligase [ADP-forming] subunit beta, mitochondrial  
OS=Sus scrofa OX=9823 GN=SUCLA2 PE=1 SV=3;tr|A0A287AR48|A0A287AR48\_PIG Succinate--  
CoA ligase [ADP-forming] subunit beta, mitochondrial OS=Sus scrofa OX=9823 GN=SUCLA2 PE=1

39062000 0 0 25716000 0 0 41085000 0 0 21224000 0 0 2 2  
2 5,8 5,8 5,8 33,486 0,0030242 1,7407 288450000 8  
F1SD96;A0A5G2QPT2;A0A287ARC6 F1SD96;A0A5G2QPT2;A0A287ARC6 356  
tr|F1SD96|F1SD96\_PIG UV excision repair protein RAD23 OS=Sus scrofa OX=9823  
GN=RAD23A PE=1 SV=3;tr|A0A5G2QPT2|A0A5G2QPT2\_PIG UV excision repair protein RAD23  
OS=Sus scrofa OX=9823 GN=RAD23A PE=1 SV=1;tr|A0A287ARC6|A0A287ARC6\_PIG UV excision  
repair protein  
0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 14,2 14,2 14,2  
18,578 0 3,3226 18663000 5 A0A5G2R017;A0A5G2R6J9;A0A287ARU4;A0A5G2RC35  
A0A5G2R017;A0A5G2R6J9;A0A287ARU4;A0A5G2RC35 357  
tr|A0A5G2R017|A0A5G2R017\_PIG S-phase kinase-associated protein 1 OS=Sus scrofa OX=9823  
GN=SKP1 PE=3 SV=1;tr|A0A5G2R6J9|A0A5G2R6J9\_PIG S-phase kinase-associated protein 1  
OS=Sus scrofa OX=9823 GN=SKP1 PE=3 SV=1;tr|A0A287ARU4|A0A287ARU4\_PIG S-phase kinase-  
as  
0 0 0 0 0 0 0 0 0 0 0 0 11 1 1 46,9 6,2 6,2  
27,209 0,0030769 1,8286 9999900 2 A0A287ARU7A0A287ARU7358  
tr|A0A287ARU7|A0A287ARU7\_PIG 14\_3\_3 domain-containing protein OS=Sus scrofa  
OX=9823 GN=CRK PE=1 SV=2  
10238000 14745000 47607000 12025000 34572000 39743000 8349900 15270000 39920000 11088000  
32180000 66924000 18 18 18 26 26 26 79,539 0 101,91  
2438500000 111 F1SHD7;A0A287ARY3;A0A5G2RBR3;A0A287BLV7  
F1SHD7;A0A287ARY3;A0A5G2RBR3;A0A287BLV7 359 tr|F1SHD7|F1SHD7\_PIG NADH-  
ubiquinone oxidoreductase 75 kDa subunit, mitochondrial OS=Sus scrofa OX=9823 GN=NDUFS1  
PE=1 SV=4;tr|A0A287ARY3|A0A287ARY3\_PIG NADH-ubiquinone oxidoreductase 75 kDa subunit,  
mitochondrial OS=Sus scrofa OX=9823 GN=NDUFS1 PE=1 SV=1;  
32990000 0 34719000 62013000 0 31253000 53440000 0 29201000 70997000 0 72884000  
2 2 2 19,4 19,4 19,4 11,108 0 5,7337 640970000 20  
A0A287AS93;F1SI50 A0A287AS93;F1SI50 360 tr|A0A287AS93|A0A287AS93\_PIG  
Complex I-B12 OS=Sus scrofa OX=9823 GN=NDUFB3 PE=1 SV=1;tr|F1SI50|F1SI50\_PIG Complex I-  
B12 OS=Sus scrofa OX=9823 GN=NDUFB3 PE=1 SV=2  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 4,8 4,8 4,8  
29,48 0 4,6721 0 1 F1S530;A0A287ASD0;A0A5G2R941  
F1S530;A0A287ASD0;A0A5G2R941 361 tr|F1S530|F1S530\_PIG 60S ribosomal protein L5  
OS=Sus scrofa OX=9823 GN=RPL5 PE=1 SV=2;tr|A0A287ASD0|A0A287ASD0\_PIG 60S ribosomal  
protein L5 OS=Sus scrofa OX=9823 GN=RPL5 PE=1 SV=1;tr|A0A5G2R941|A0A5G2R941\_PIG 60S  
ribosomal protein L5 OS=Sus scrofa OX=9823  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1,3 1,3 1,3  
113,3 0,0058939 1,5155 5114500 1  
A0A287BTF2;A0A287ASM1;A0A287BNF6;I3LDM3;A0A287B2B4  
A0A287BTF2;A0A287ASM1;A0A287BNF6;I3LDM3;A0A287B2B4 362  
tr|A0A287BTF2|A0A287BTF2\_PIG Importin 7 OS=Sus scrofa OX=9823 GN=IPO7 PE=1  
SV=2;tr|A0A287ASM1|A0A287ASM1\_PIG Importin 7 OS=Sus scrofa OX=9823 GN=IPO7 PE=1

SV=2;tr|A0A287BNF6|A0A287BNF6\_PIG Importin 7 OS=Sus scrofa OX=9823 GN=IPO7 PE=1  
SV=1;tr|I3LDM3|I3LDM3

0 0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 12,4 12,4 12,4  
29,132 0 5,3101 105290000 3 I3LJ87;A0A287ASU4;A0A5G2RA75;A0A5G2QQM9  
I3LJ87;A0A287ASU4 363 tr|I3LJ87|I3LJ87\_PIG 40S ribosomal protein S2 OS=Sus scrofa  
OX=9823 GN=RPS2 PE=1 SV=3;tr|A0A287ASU4|A0A287ASU4\_PIG 40S ribosomal protein S2  
OS=Sus scrofa OX=9823 GN=RPS2 PE=1 SV=1

0 0 0 0 0 6348900 0 0 0 0 0 14711000 2 2 2 5,4  
5,4 5,4 48,335 0 2,9619 65360000 2 A0A287ASX8;F1S3H4;A0A5G2QCC0  
A0A287ASX8;F1S3H4;A0A5G2QCC0 364 tr|A0A287ASX8|A0A287ASX8\_PIG Ubiquinone  
biosynthesis monooxygenase COQ6, mitochondrial OS=Sus scrofa OX=9823 GN=COQ6 PE=1  
SV=1;tr|F1S3H4|F1S3H4\_PIG Ubiquinone biosynthesis monooxygenase COQ6, mitochondrial  
OS=Sus scrofa OX=9823 GN=COQ6 PE=1 SV=2;tr|A0A5G2Q

22474000 19989000 18496000 27260000 17967000 19071000 28430000 15030000 15655000 20965000  
21350000 20855000 5 5 5 23,4 23,4 23,4 27,867 0 32,147  
673020000 50 A0A287AT18;A0A287BRR7;F1SBA5 A0A287AT18;A0A287BRR7 365  
tr|A0A287AT18|A0A287AT18\_PIG Proteasome subunit alpha type OS=Sus scrofa OX=9823  
GN=PSMA7 PE=1 SV=1;tr|A0A287BRR7|A0A287BRR7\_PIG Proteasome subunit alpha type OS=Sus  
scrofa OX=9823 GN=PSMA7 PE=1 SV=2

0 0 0 0 0 0 0 0 0 0 0 0 0 9 3 2 24,8 12,1 8,3  
46,976 0 9,7501 95366000 4 A0A287AT48;A0A5G2QRD3 A0A287AT48 366  
tr|A0A287AT48|A0A287AT48\_PIG SERPIN domain-containing protein OS=Sus scrofa  
OX=9823 GN=LOC100156325 PE=1 SV=1

0 0 0 0 0 0 0 0 0 0 0 0 0 4 4 4 9,9 9,9 9,9  
69,51 0 18,86 52271000 12 A0A287AT83 A0A287AT83 367  
tr|A0A287AT83|A0A287AT83\_PIG Eukaryotic translation initiation factor 4B isoform 1 OS=Sus  
scrofa OX=9823 PE=4 SV=2

0 0 0 0 0 0 0 0 0 0 0 0 0 6 1 0 9,8 2 0  
59,525 0,003055 1,7901 7305100 1 F1SGI7;A0A287ATD0;A0A287APM4  
F1SGI7;A0A287ATD0;A0A287APM4 368 tr|F1SGI7|F1SGI7\_PIG IF rod domain-containing  
protein OS=Sus scrofa OX=9823 GN=KRT75 PE=1 SV=4;tr|A0A287ATD0|A0A287ATD0\_PIG IF rod  
domain-containing protein OS=Sus scrofa OX=9823 GN=KRT75 PE=1  
SV=1;tr|A0A287APM4|A0A287APM4\_PIG IF rod domain-containing prot

116960000 77736000 92545000 7016900 39173000 9264800 4703100 11548000 14894000 3570600  
17476000 88477000 5 4 4 29,7 24,6 24,6 20,129 0 12,953  
1690600000 53 Q7M2W6;A0A5S6I1M3;A0A287ATJ4 Q7M2W6;A0A5S6I1M3;A0A287ATJ4  
369 sp|Q7M2W6|CRYAB\_PIG Alpha-crystallin B chain OS=Sus scrofa OX=9823 GN=CRYAB  
PE=2 SV=1;tr|A0A5S6I1M3|A0A5S6I1M3\_PIG Alpha(B)-crystallin OS=Sus scrofa OX=9823  
GN=CRYAB PE=1 SV=1;tr|A0A287ATJ4|A0A287ATJ4\_PIG Alpha(B)-crystallin OS=Sus scrofa  
OX=9823 GN=CRYAB

29382000 28760000 32421000 64005000 55388000 45399000 57375000 40360000 39206000 57870000  
56850000 55650000 14 14 14 34,2 34,2 34,2 50,213 0 75,541

3387400000 129 A0A287ATN8A0A287ATN8370 tr|A0A287ATN8|A0A287ATN8\_PIG 60  
kDa chaperonin OS=Sus scrofa OX=9823 GN=HSPD1 PE=1 SV=1  
58936000 33165000 38173000 64566000 36831000 46659000 78228000 24548000 34442000 68128000  
33870000 49126000 4 4 0 19,8 19,8 0 21,379 0 9,0166  
1476600000 42  
A0A287ATV4;A0A5G2QQK3;A0A5G2R6S0;A0A5G2R1K1;I3LKU0;F1RSX1;A0A287B3L0;I3LR  
E4;A0A5G2QGK4;K9IWC9;A0A5G2R664;A0A5S6GXN2;A0A286ZSH1;F2Z5W2;Q06AT6;A0A5G2R  
5V4;A0A287B510 A0A287ATV4;A0A5G2QQK3;A0A5G2R6S0;A0A5G2R1K1;I3LKU0 371  
tr|A0A287ATV4|A0A287ATV4\_PIG Rac family small GTPase 3 OS=Sus scrofa OX=9823  
GN=RAC3 PE=4 SV=1;tr|A0A5G2QQK3|A0A5G2QQK3\_PIG Rac family small GTPase 1 OS=Sus  
scrofa OX=9823 GN=RAC1 PE=1 SV=1;tr|A0A5G2R6S0|A0A5G2R6S0\_PIG Rac family small GTPase  
2 OS=Sus scro  
0 6715800 0 7151000 0 0 0 0 7814200 7300500 0 0 2 2  
2 17,2 17,2 17,2 17,447 0 3,0483 93978000 7 A0A287AUE4A0A287AUE4373  
tr|A0A287AUE4|A0A287AUE4\_PIG E2 ubiquitin-conjugating enzyme OS=Sus scrofa OX=9823  
GN=UBE2K PE=1 SV=2  
56884000 8704800 16605000 25331000 30056000 17416000 33340000 42240000 21803000 21344000  
40865000 26515000 13 13 12 13 13 12,3 116,65 0 54,117  
1100100000 75 F1S156;A0A5G2QAN9;A0A5G2QHE6;A0A287AUH9  
F1S156;A0A5G2QAN9;A0A5G2QHE6;A0A287AUH9 374 tr|F1S156|F1S156\_PIG  
Synaptopodin 2 OS=Sus scrofa OX=9823 GN=SYNPO2 PE=1  
SV=4;tr|A0A5G2QAN9|A0A5G2QAN9\_PIG Synaptopodin 2 OS=Sus scrofa OX=9823 GN=SYNPO2  
PE=1 SV=1;tr|A0A5G2QHE6|A0A5G2QHE6\_PIG Synaptopodin 2 OS=Sus scrofa OX=9823  
GN=SYNPO2 PE=1 SV=1;tr|A0A  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 11,2 11,2 11,2  
12,667 0,0078508 1,501 5863900 3 A0A5G2QSG0;A0A287AUN4  
A0A5G2QSG0;A0A287AUN4 375 tr|A0A5G2QSG0|A0A5G2QSG0\_PIG Vesicle associated  
membrane protein 5 OS=Sus scrofa OX=9823 GN=VAMP5 PE=1  
SV=1;tr|A0A287AUN4|A0A287AUN4\_PIG Vesicle associated membrane protein 5 OS=Sus scrofa  
OX=9823 GN=VAMP5 PE=1 SV=2  
5809200 0 4742100 14418000 0 0 9044800 0 6284300 9961700 0 4134800  
8 8 8 17,8 17,8 17,8 53,702 0 7,4569 167310000 17  
A0A5G2QY06;F1S4D7;A0A287AUT0;K7GLP8;A0A5G2QMY2;A0A287BSF6  
A0A5G2QY06;F1S4D7;A0A287AUT0;K7GLP8;A0A5G2QMY2;A0A287BSF6 376  
tr|A0A5G2QY06|A0A5G2QY06\_PIG GB1/RHD3-type G domain-containing protein OS=Sus  
scrofa OX=9823 GN=LOC100523668 PE=1 SV=1;tr|F1S4D7|F1S4D7\_PIG GB1/RHD3-type G domain-  
containing protein OS=Sus scrofa OX=9823 GN=LOC100523668 PE=1  
SV=3;tr|A0A287AUT0|A0A287AUT0\_P  
0 0 0 0 0 0 0 0 0 0 0 0 6 6 6 20,6 20,6 20,6  
37,527 0 9,2555 175830000 8 A0A287AUZ3;F1SMX5 A0A287AUZ3;F1SMX5 377  
tr|A0A287AUZ3|A0A287AUZ3\_PIG Calcium binding protein 39 OS=Sus scrofa OX=9823  
GN=CAB39 PE=1 SV=1;tr|F1SMX5|F1SMX5\_PIG Calcium-binding protein 39 OS=Sus scrofa  
OX=9823 GN=CAB39 PE=1 SV=1

1222600000 654080000 681950000 1202400000 701680000 823790000 1069100000  
803640000 923890000 1346800000 974420000 487300000 10 10  
10 20,2 20,2 20,2 45,161 0 132,2 36055000000 658 A0A287AV34;F1RJW7  
A0A287AV34;F1RJW7 378 tr|A0A287AV34|A0A287AV34\_PIG Calsequestrin OS=Sus scrofa  
OX=9823 GN=CASQ1 PE=1 SV=1;tr|F1RJW7|F1RJW7\_PIG Calsequestrin OS=Sus scrofa OX=9823  
GN=CASQ1 PE=1 SV=2  
123330000 102580000 89756000 21008000 74783000 38380000 38907000 63690000 28361000  
24336000 66326000 51550000 13 13 13 58,7 58,7 58,7 164,47 0 45,634  
1772700000 79 F1S7K4;A0A287AV63;A0A287BNJ5 F1S7K4;A0A287AV63;A0A287BNJ5  
379 tr|F1S7K4|F1S7K4\_PIG Perilipin 4 OS=Sus scrofa OX=9823 GN=PLIN4 PE=1  
SV=4;tr|A0A287AV63|A0A287AV63\_PIG Perilipin 4 OS=Sus scrofa OX=9823 GN=PLIN4 PE=1  
SV=2;tr|A0A287BNJ5|A0A287BNJ5\_PIG Perilipin 4 OS=Sus scrofa OX=9823 GN=PLIN4 PE=1 SV=2  
6045000 6338900 0 0 0 0 0 0 0 0 0 0 4 4 4 11,4  
11,4 11,4 47,362 0 9,1287 472660007 F1RKW8;A0A287AV98;A0A5G2QZX3  
F1RKW8;A0A287AV98;A0A5G2QZX3 380 tr|F1RKW8|F1RKW8\_PIG Proteasome 26S  
subunit, non-ATPase 11 OS=Sus scrofa OX=9823 GN=PSMD11 PE=1  
SV=3;tr|A0A287AV98|A0A287AV98\_PIG Proteasome 26S subunit, non-ATPase 11 OS=Sus scrofa  
OX=9823 GN=PSMD11 PE=1 SV=1;tr|A0A5G2QZX3|A0A5G2QZX3\_PIG Proteasome 26S su  
0 16487000 14269000 18189000 14838000 17223000 19277000 16978000 21320000 17454000 13611000  
14399000 6 6 6 31,5 31,5 31,5 22,842 0 11,314 380810000 20  
A0A5G2R7J8;A0A5G2QMN2;A0A5G2QL91;F2Z5N0;A0A5G2QTK7;A0A287AVI5  
A0A5G2R7J8;A0A5G2QMN2;A0A5G2QL91;F2Z5N0;A0A5G2QTK7;A0A287AVI5 381  
tr|A0A5G2R7J8|A0A5G2R7J8\_PIG Proteasome subunit alpha type OS=Sus scrofa OX=9823  
GN=PRORP PE=1 SV=1;tr|A0A5G2QMN2|A0A5G2QMN2\_PIG Uncharacterized protein OS=Sus  
scrofa OX=9823 GN=PRORP PE=1 SV=1;tr|A0A5G2QL91|A0A5G2QL91\_PIG Uncharacterized  
protein OS=Sus sc  
10286000 5571600 3672300 19808000 9711300 6770700 21427000 6377400 6309300 19962000  
6451800 7565400 5 5 5 19,3 19,3 19,3 29,428 0 13,797  
446070000 28 A0A5G2Q9Z0;O77591;A0A287AVN0;I3LTC6;A0A5G2QFA4  
A0A5G2Q9Z0;O77591;A0A287AVN0;I3LTC6 382 tr|A0A5G2Q9Z0|A0A5G2Q9Z0\_PIG  
Inositol-1-monophosphatase OS=Sus scrofa OX=9823 GN=IMPA1 PE=3  
SV=1;sp|O77591|IMPA1\_PIG Inositol monophosphatase 1 OS=Sus scrofa OX=9823 GN=IMPA1 PE=2  
SV=1;tr|A0A287AVN0|A0A287AVN0\_PIG Inositol-1-monophosphatase OS=Sus scrofa O  
12520000 15056000 0 10169000 11030000 0 25264000 10668000 10039000 10528000 0 0  
5 5 5 33,1 33,1 33,1 28,229 0 23,049 296210000 20  
A0A287BG87;A0A287AVP4;A0A287BP50;F1S1X9  
A0A287BG87;A0A287AVP4;A0A287BP50;F1S1X9 383 tr|A0A287BG87|A0A287BG87\_PIG  
Thioredoxin like 1 OS=Sus scrofa OX=9823 GN=TXNL1 PE=1  
SV=1;tr|A0A287AVP4|A0A287AVP4\_PIG Thioredoxin like 1 OS=Sus scrofa OX=9823 GN=TXNL1  
PE=1 SV=1;tr|A0A287BP50|A0A287BP50\_PIG Thioredoxin like 1 OS=Sus scrofa OX=9823  
GN=TXNL1  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 4,3 4,3 4,3  
37,349 0,0049554 1,5848 2189600 1 A0A287AW94;A0A481CK36;A0A287BCD1

A0A287AW94;A0A481CK36;A0A287BCD1 384 tr|A0A287AW94|A0A287AW94\_PIG  
 Uncharacterized protein OS=Sus scrofa OX=9823 GN=ADRM1 PE=1  
 SV=2;tr|A0A481CK36|A0A481CK36\_PIG Proteasomal ubiquitin receptor ADRM1 isoform 1 OS=Sus  
 scrofa OX=9823 GN=ADRM1 PE=1 SV=1;tr|A0A287BCD1|A0A287BCD1\_PIG Uncharacterized  
 6404100 2156400 13497000 15915000 7385800 11494000 10038000 3958000 8618300 17929000  
 9233000 17483000 7 7 7 25,1 25,1 25,1 43,166 0 48,005  
 610760000 51 A0A287BEK4;I3LRR4;A0A287AWH6 A0A287BEK4;I3LRR4;A0A287AWH6  
 385 tr|A0A287BEK4|A0A287BEK4\_PIG Complex I-9kD OS=Sus scrofa OX=9823 GN=NDUFV3  
 PE=1 SV=1;tr|I3LRR4|I3LRR4\_PIG Complex I-9kD OS=Sus scrofa OX=9823 GN=NDUFV3 PE=1  
 SV=3;tr|A0A287AWH6|A0A287AWH6\_PIG Complex I-9kD OS=Sus scrofa OX=9823 GN=NDUFV3  
 PE=1 SV=2  
 0 0 12774000 0 7518700 11706000 0 0 0 0 15324000 5 5  
 5 11,4 11,4 11,4 47,05 0 6,4213 129590000 13 F1SAW8;A0A287AWJ1;O18934  
 F1SAW8;A0A287AWJ1 386 tr|F1SAW8|F1SAW8\_PIG Calsequestrin OS=Sus scrofa OX=9823  
 GN=CASQ2 PE=1 SV=4;tr|A0A287AWJ1|A0A287AWJ1\_PIG Calsequestrin OS=Sus scrofa OX=9823  
 GN=CASQ2 PE=1 SV=1  
 14458000 6599400 0 0 0 0 9591700 0 4445000 7117900 0 0 4  
 4 4 22,1 22,1 22,1 22,652 0 9,2335 136130000 15  
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 387 tr|A0A287AX77|A0A287AX77\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
 GN=PPP1R2 PE=1 SV=1;tr|A0A5G2Q9D0|A0A5G2Q9D0\_PIG Uncharacterized protein OS=Sus  
 scrofa OX=9823 GN=PPP1R2 PE=1 SV=1;tr|A0A5G2RDG4|A0A5G2RDG4\_PIG Uncharacterized  
 protein OS=Sus scrofa  
 12569000 5632000 9709700 24760000 11561000 7694600 18873000 7877600 13006000 29530000  
 10866000 10834000 4 4 4 24,5 24,5 24,5 17,665 0 12,936  
 423220000 22 I3LKD2;A0A287AXF7;A0A5G2QDB6 I3LKD2;A0A287AXF7;A0A5G2QDB6  
 388 tr|I3LKD2|I3LKD2\_PIG Family with sequence similarity 162 member A OS=Sus scrofa  
 OX=9823 GN=FAM162A PE=1 SV=1;tr|A0A287AXF7|A0A287AXF7\_PIG Family with sequence  
 similarity 162 member A OS=Sus scrofa OX=9823 GN=FAM162A PE=1  
 SV=1;tr|A0A5G2QDB6|A0A5G2QDB6\_PIG F  
 25402000 24327000 20632000 8954400 15776000 11437000 15982000 6694700 8181200 12152000  
 8607000 18176000 9 6 5 32,9 22,2 18,4 26,683 0 64,305  
 488420000 38 A0A287AXR5;A0A480PLY3;A0A287A0Q6;F2Z558  
 A0A287AXR5;A0A480PLY3;A0A287A0Q6;F2Z558 390 tr|A0A287AXR5|A0A287AXR5\_PIG  
 Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein zeta OS=Sus scrofa  
 OX=9823 GN=YWHAZ PE=1 SV=1;tr|A0A480PLY3|A0A480PLY3\_PIG 14-3-3 protein zeta/delta  
 OS=Sus scrofa OX=9823 GN=YWHAZ PE=1 SV=1;tr|A0A287A0Q6|  
 38791000 64627000 58837000 35683000 55463000 68827000 40933000 39835000 69267000 40166000  
 53276000 44021000 3 3 3 18,7 18,7 18,7 30,658 0 57,279  
 1801100000 74 F1S5Z8;A0A287AXS3;A0A5G2R2H0 F1S5Z8;A0A287AXS3;A0A5G2R2H0  
 391 tr|F1S5Z8|F1S5Z8\_PIG Synaptophysin like 2 OS=Sus scrofa OX=9823 GN=SYPL2 PE=1  
 SV=2;tr|A0A287AXS3|A0A287AXS3\_PIG Synaptophysin like 2 OS=Sus scrofa OX=9823 GN=SYPL2

PE=1 SV=2;tr|A0A5G2R2H0|A0A5G2R2H0\_PIG Synaptophysin like 2 OS=Sus scrofa OX=9823  
GN=SYPL2 P

8001400 5943700 7687100 5848100 5432300 10636000 0 4811200 8709700 4335400 5487900  
6321100 5 5 5 24,2 24,2 24,2 27,507 0 17,108 230660000 21

A0A287AY54;A0A5S6HR40;Q29214;A0A287BGL3;A0A5S6HGK5

A0A287AY54;A0A5S6HR40;Q29214;A0A287BGL3;A0A5S6HGK5 392

tr|A0A287AY54|A0A287AY54\_PIG 60S acidic ribosomal protein P0 OS=Sus scrofa OX=9823  
GN=RPLP0 PE=3 SV=2;tr|A0A5S6HR40|A0A5S6HR40\_PIG 60S acidic ribosomal protein P0 OS=Sus  
scrofa OX=9823 GN=RPLP0 PE=3 SV=1;sp|Q29214|RLA0\_PIG 60S acidic ribosomal protein P0 O

115050000 181630000 92258000 172790000 112560000 98009000 166680000

154910000 114990000 135690000 133400000 59484000 9 9 9

32,8 32,8 32,8 33,404 0 129,82 355450000 145

A0A5G2RBY2;F1S4J7;A0A287AY74;A0A287BJI2;A0A286ZVB2;P00636

A0A5G2RBY2;F1S4J7;A0A287AY74 393 tr|A0A5G2RBY2|A0A5G2RBY2\_PIG Fructose-  
bisphosphatase OS=Sus scrofa OX=9823 GN=FBP2 PE=1 SV=1;tr|F1S4J7|F1S4J7\_PIG Fructose-  
bisphosphatase OS=Sus scrofa OX=9823 GN=FBP2 PE=1 SV=3;tr|A0A287AY74|A0A287AY74\_PIG  
Fructose-bisphosphatase OS=Sus scrofa OX=9823 GN=

5836900 0 8361800 8630200 2407300 9553200 4925500 0 0 5041200 0 8984600

6 5 5 22,9 20,7 20,7 35,828 0 20,119 159650000 25

P08132;A0A287B583;A0A287AYJ2;F1SLC4P08132;A0A287B583;A0A287AYJ2;F1SLC4 394

sp|P08132|ANXA4\_PIG Annexin A4 OS=Sus scrofa OX=9823 GN=ANXA4 PE=1  
SV=2;tr|A0A287B583|A0A287B583\_PIG Annexin OS=Sus scrofa OX=9823 GN=ANXA4 PE=3  
SV=2;tr|A0A287AYJ2|A0A287AYJ2\_PIG Annexin OS=Sus scrofa OX=9823 GN=ANXA4 PE=3  
SV=1;tr|F1SLC4|F1SLC4\_PIG Annexin

0 0 0 0 0 0 0 0 0 0 0 0 77 1 1 29,6 0,4 0,4

332,94 0 2,8999 152600000 12 A0A287AYJ9 A0A287AYJ9 396

tr|A0A287AYJ9|A0A287AYJ9\_PIG Nebulin OS=Sus scrofa OX=9823 GN=NEB PE=1 SV=1

50989000 46036000 22812000 77462000 25095000 35602000 83947000 47709000 44209000 122850000

25740000 35150000 5 5 5 35,5 35,5 35,5 19,673 0 41,663

148960000 81

A0A5G2RH88;P80031;A0A287AZ91;A0A5G2QMB0;A0A287BQ81;A0A287AQ27;F1RVN0

A0A5G2RH88;P80031;A0A287AZ91;A0A5G2QMB0;A0A287BQ81 397

tr|A0A5G2RH88|A0A5G2RH88\_PIG GST class-pi OS=Sus scrofa OX=9823 GN=LOC100739508  
PE=1 SV=1;sp|P80031|GSTP1\_PIG Glutathione S-transferase P OS=Sus scrofa OX=9823 GN=GSTP1  
PE=1 SV=2;tr|A0A287AZ91|A0A287AZ91\_PIG GST class-pi OS=Sus scrofa OX=9823  
GN=LOC1007395

400440000 224670000 163460000 210300000 165000000 142880000 311940000

136910000 203680000 400340000 134950000 86197000 10 10 9

43,7 43,7 38,9 25,194 0 41,785 982750000 190

A0A287AZ96;A0A287B9H3;A0A287BEH6 A0A287AZ96;A0A287B9H3;A0A287BEH6 398

tr|A0A287AZ96|A0A287AZ96\_PIG PDZ and LIM domain 7 OS=Sus scrofa OX=9823  
GN=PDLIM7 PE=1 SV=2;tr|A0A287B9H3|A0A287B9H3\_PIG PDZ and LIM domain 7 OS=Sus scrofa

OX=9823 GN=PDLIM7 PE=1 SV=2;tr|A0A287BEH6|A0A287BEH6\_PIG PDZ and LIM domain 7  
OS=Sus scrofa OX=9823

0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 3 3 3  
44,303 0 13,359 0 2 A0A287AZA3A0A287AZA3399

tr|A0A287AZA3|A0A287AZA3\_PIG COP9 signalosome subunit 3 OS=Sus scrofa OX=9823  
GN=COPS3 PE=1 SV=2

602710000 480670000 279310000 543050000 255950000 444620000 738970000  
431980000 327020000 659320000 339860000 358320000 5 5  
5 36,7 36,7 36,7 14,728 0 49,466 6852700000 130

P63053;A0A287AZA7;A7U5U2;F1S911;P0CG68;A0A5G2QDJ2;A0A2C9F3G2

P63053;A0A287AZA7;A7U5U2;F1S911;P0CG68;A0A5G2QDJ2;A0A2C9F3G2 400

sp|P63053|RL40\_PIG Ubiquitin-60S ribosomal protein L40 OS=Sus scrofa OX=9823 GN=UBA52  
PE=1 SV=2;tr|A0A287AZA7|A0A287AZA7\_PIG 40S ribosomal protein S27a OS=Sus scrofa OX=9823  
GN=RPS27A PE=1 SV=2;tr|A7U5U2|A7U5U2\_PIG Ubiquitin B OS=Sus scrofa OX=9823 GN=UBB

0 13143000 20704000 0 6348200 7484200 0 0 0 0 0 5531300 6  
6 6 15,4 15,4 15,4 47,253 0 10,547 150890000 15

A0A287BSQ5;A0A287AZB0;F1S4D5 A0A287BSQ5;A0A287AZB0;F1S4D5 401

tr|A0A287BSQ5|A0A287BSQ5\_PIG Cysteine-S-conjugate beta-lyase 2 OS=Sus scrofa OX=9823  
GN=KYAT3 PE=1 SV=1;tr|A0A287AZB0|A0A287AZB0\_PIG Cysteine-S-conjugate beta-lyase 2  
OS=Sus scrofa OX=9823 GN=KYAT3 PE=1 SV=1;tr|F1S4D5|F1S4D5\_PIG Cysteine-S-conjugate beta-1  
5158700 4315100 5632600 0 4524800 0 0 0 0 0 0 5232500 2

2 2 8,3 8,3 8,3 31,66 0,0022099 2,3597 57336000 4

A0A5G2QSZ0;A0A5G2R5A3;A0A287AZD8;A0A5G2RKB0;A0A5G2QQ79

A0A5G2QSZ0;A0A5G2R5A3;A0A287AZD8;A0A5G2RKB0;A0A5G2QQ79 402

tr|A0A5G2QSZ0|A0A5G2QSZ0\_PIG BCL2 like 13 OS=Sus scrofa OX=9823 GN=BCL2L13 PE=1  
SV=1;tr|A0A5G2R5A3|A0A5G2R5A3\_PIG BCL2 like 13 OS=Sus scrofa OX=9823 GN=BCL2L13 PE=1  
SV=1;tr|A0A287AZD8|A0A287AZD8\_PIG BCL2 like 13 OS=Sus scrofa OX=9823 GN=BCL2L13 PE=1  
SV=2;t

80034000 69877000 85617000 188760000 106400000 92951000 140610000 60540000  
108940000 178100000 103100000 156840000 7 7 7 22,7 22,7  
22,7 35,442 0 25,981 2643800000 77 A0A287AZF9 A0A287AZF9 403

tr|A0A287AZF9|A0A287AZF9\_PIG Cytochrome c1 OS=Sus scrofa OX=9823 GN=CYC1 PE=1  
SV=1

0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 5 5 5  
27,045 0,0030864 1,8533 32700000 4

A0A5G2RBL1;A0A287AZM3;I3LUD5;A0A5G2QHB2

A0A5G2RBL1;A0A287AZM3;I3LUD5;A0A5G2QHB2 404

tr|A0A5G2RBL1|A0A5G2RBL1\_PIG UBX domain protein 1 OS=Sus scrofa OX=9823  
GN=UBXN1 PE=1 SV=1;tr|A0A287AZM3|A0A287AZM3\_PIG UBX domain protein 1 OS=Sus scrofa  
OX=9823 GN=UBXN1 PE=1 SV=2;tr|I3LUD5|I3LUD5\_PIG UBX domain protein 1 OS=Sus scrofa  
OX=9823 GN=UBXN1 P

12306000 14009000 11916000 13172000 15302000 14133000 12057000 13315000 8754200 11983000  
13070000 13336000 7 7 7 23,8 23,8 23,8 38,801 0 16,265



456710000 45  
A0A5G2QES7;F1S0C1;A0A287AZV4;A0A5G2QCU9;A0A5G2QGP7;A0A5G2QHM7;A0A287BP  
T2;A0A287A703;A0A5G2QDU0 A0A5G2QES7;F1S0C1;A0A287AZV4 405  
tr|A0A5G2QES7|A0A5G2QES7\_PIG S-(hydroxymethyl)glutathione dehydrogenase OS=Sus  
scrofa OX=9823 GN=ADH5 PE=1 SV=1;tr|F1S0C1|F1S0C1\_PIG S-(hydroxymethyl)glutathione  
dehydrogenase OS=Sus scrofa OX=9823 GN=ADH5 PE=1 SV=2;tr|A0A287AZV4|A0A287AZV4\_PIG  
S-(hydroxym  
0 15272000 20051000 0 12194000 0 0 14915000 10695000 0 10621000 11272000  
5 5 5 8 8 8 80,769 0 9,7681 209470000 13  
P23687;A0A287AZX9;F1RYQ0;A0A5S6HMR6 P23687;A0A287AZX9;F1RYQ0;A0A5S6HMR6  
406 sp|P23687|PPCE\_PIG Prolyl endopeptidase OS=Sus scrofa OX=9823 GN=PREP PE=1  
SV=1;tr|A0A287AZX9|A0A287AZX9\_PIG Prolyl endopeptidase OS=Sus scrofa OX=9823 GN=PREP  
PE=3 SV=1;tr|F1RYQ0|F1RYQ0\_PIG Prolyl endopeptidase OS=Sus scrofa OX=9823 GN=PREP PE=3  
SV=3;tr|A  
0 13022000 8101100 0 0 0 0 0 0 0 0 0 4 4 4 3,1  
3,1 3,1 162,44 0 18,605 70971000 7  
A0A5G2QK29;A0A5G2R4Z7;A0A5G2QSL4;A0A5G2QRH0;I3LIY3;A0A287BEQ2;A0A287B073;  
A0A5G2QW60  
A0A5G2QK29;A0A5G2R4Z7;A0A5G2QSL4;A0A5G2QRH0;I3LIY3;A0A287BEQ2;A0A287B073;  
A0A5G2QW60 407 tr|A0A5G2QK29|A0A5G2QK29\_PIG Voltage-dependent L-type calcium  
channel subunit alpha OS=Sus scrofa OX=9823 GN=CACNA1S PE=3  
SV=1;tr|A0A5G2R4Z7|A0A5G2R4Z7\_PIG Voltage-dependent L-type calcium channel subunit alpha  
OS=Sus scrofa OX=9823 GN=CACNA1S PE=3 SV=1;tr  
0 0 16627000 0 8835400 10068000 0 0 8733500 0 7708200 24320000  
4 4 4 5,4 5,4 5,4 84 0 12,935 208100000 17  
I3LV35;A0A287B087;Q8HY46;A0A481BBQ2;A0A287AK71  
I3LV35;A0A287B087;Q8HY46;A0A481BBQ2;A0A287AK71 408 tr|I3LV35|I3LV35\_PIG  
Carnitine O-palmitoyltransferase OS=Sus scrofa OX=9823 GN=CPT1B PE=1  
SV=2;tr|A0A287B087|A0A287B087\_PIG Carnitine O-palmitoyltransferase OS=Sus scrofa OX=9823  
GN=CPT1B PE=1 SV=1;sp|Q8HY46|CPT1B\_PIG Carnitine O-palmitoyltransferase 1, mu  
20165000 16847000 19119000 30524000 22499000 22922000 29920000 17696000 17606000 17677000  
20219000 20438000 3 3 3 12,9 12,9 12,9 29,053 0 7,5376  
518040000 18 A0A287B088;Q29384 A0A287B088 409  
tr|A0A287B088|A0A287B088\_PIG Proteasome subunit beta OS=Sus scrofa OX=9823  
GN=PSMB4 PE=1 SV=1  
8319100 0 5885600 17275000 0 9186000 22941000 0 0 0 0 0 3  
3 3 7,7 7,7 7,7 37,338 0 4,9619 178750000 13 I3L5M4;A0A287B0I5  
I3L5M4;A0A287B0I5 410 tr|I3L5M4|I3L5M4\_PIG Carbonic anhydrase 14 OS=Sus scrofa  
OX=9823 GN=CA14 PE=1 SV=3;tr|A0A287B0I5|A0A287B0I5\_PIG Carbonic anhydrase 14 OS=Sus  
scrofa OX=9823 GN=CA14 PE=1 SV=2  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 3,4 3,4 3,4  
33,248 0 5,0234 52637000 4 A0A5K1UL95;F1RYV5;A0A287B0I7  
A0A5K1UL95;F1RYV5;A0A287B0I7 411 tr|A0A5K1UL95|A0A5K1UL95\_PIG Aldo\_ket\_red

domain-containing protein OS=Sus scrofa OX=9823 GN=AKR1C3 PE=1  
 SV=1;tr|F1RYV5|F1RYV5\_PIG Aldo\_ket\_red domain-containing protein OS=Sus scrofa OX=9823  
 GN=AKR1C3 PE=1 SV=3;tr|A0A287B0I7|A0A287B0I7\_PIG Aldo\_ket\_red do  
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 9,4 9,4 9,4  
 22,302 0,004995 1,6306 2456900 1 A0A5G2QL69;A0A287B0N7  
 A0A5G2QL69;A0A287B0N7 412 tr|A0A5G2QL69|A0A5G2QL69\_PIG CARD domain-  
 containing protein OS=Sus scrofa OX=9823 GN=NOL3 PE=1  
 SV=1;tr|A0A287B0N7|A0A287B0N7\_PIG CARD domain-containing protein OS=Sus scrofa OX=9823  
 GN=NOL3 PE=1 SV=1  
 0 0 0 7809500 0 0 7879200 0 0 0 0 3431000 3 3 3  
 12 12 12 23,318 0 5,1939 70397000 8 A0A287B1X5;A0A287B0P4;A0A5G2Q979  
 A0A287B1X5;A0A287B0P4 413 tr|A0A287B1X5|A0A287B1X5\_PIG TPD52 like 2 OS=Sus  
 scrofa OX=9823 GN=TPD52L2 PE=1 SV=2;tr|A0A287B0P4|A0A287B0P4\_PIG TPD52 like 2 OS=Sus  
 scrofa OX=9823 GN=TPD52L2 PE=1 SV=2  
 0 0 0 20206000 19811000 23979000 19466000 0 14637000 32592000 22018000 44214000  
 2 2 2 13,3 13,3 13,3 6,8176 0,0086705 1,4047 386230000 6  
 A0A287B105;A0A287BJ57 A0A287B105;A0A287BJ57 414  
 tr|A0A287B105|A0A287B105\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
 GN=COX7B PE=1 SV=2;tr|A0A287BJ57|A0A287BJ57\_PIG Cytochrome c oxidase subunit 7B,  
 mitochondrial OS=Sus scrofa OX=9823 GN=COX7B PE=1 SV=1  
 30459000 21091000 21576000 39071000 24100000 28075000 47743000 12225000 22943000 49796000  
 16061000 26132000 8 8 7 33,7 33,7 28,8 27,037 0 47,276  
 1232300000 44 A0A287B186;A5GFS8;A0A2C9F396;A0A5G2Q7S1;A0A5G2QSD0  
 A0A287B186;A5GFS8;A0A2C9F396;A0A5G2Q7S1 415 tr|A0A287B186|A0A287B186\_PIG  
 Vesicle-associated membrane protein-associated protein B OS=Sus scrofa OX=9823 GN=VAPB PE=4  
 SV=1;sp|A5GFS8|VAPB\_PIG Vesicle-associated membrane protein-associated protein B OS=Sus  
 scrofa OX=9823 GN=VAPB PE=3 SV=1;tr|A0A2C9F396|  
 70665000 36204000 43059000 0 7861400 2436900 3814700 4548000 4638800 3153200 3055400  
 17226000 9 9 9 19,2 19,2 19,2 56,612 0 28,608 890330000 38  
 A0A287B1U8;F1SVD5;A0A287B1B5;A0A287ALA4  
 A0A287B1U8;F1SVD5;A0A287B1B5;A0A287ALA4 416 tr|A0A287B1U8|A0A287B1U8\_PIG  
 Histone-lysine N-methyltransferase SMYD1 isoform 1 OS=Sus scrofa OX=9823 GN=SMYD1 PE=1  
 SV=1;tr|F1SVD5|F1SVD5\_PIG SET and MYND domain containing 1 OS=Sus scrofa OX=9823  
 GN=SMYD1 PE=1 SV=4;tr|A0A287B1B5|A0A287B1B5\_PIG SET and MYN  
 4630800 0 9889000 0 10307000 0 0 3283900 2992300 9191900 10916000  
 3 3 3 7,7 7,7 7,7 47,26 0 9,461 139710000 13 F1SED0;A0A287B1V1  
 F1SED0;A0A287B1V1 417 tr|F1SED0|F1SED0\_PIG Acyl-CoA dehydrogenase short/branched  
 chain OS=Sus scrofa OX=9823 GN=ACADSB PE=1 SV=4;tr|A0A287B1V1|A0A287B1V1\_PIG Acyl-  
 CoA dehydrogenase short/branched chain OS=Sus scrofa OX=9823 GN=ACADSB PE=1 SV=2  
 14429000 31913000 21738000 0 7323100 17237000 0 11830000 12633000 0 5440200 18430000  
 6 6 6 9,2 9,2 9,2 76,485 0 17,229 342440000 26  
 A0A5G2QKR0;A0A287B216;A0A287B8F4;F1RIP1;A0A287A291;F1SR04;A0A287B5W1  
 A0A5G2QKR0;A0A287B216;A0A287B8F4;F1RIP1;A0A287A291 418

tr|A0A5G2QKR0|A0A5G2QKR0\_PIG Glycogen [starch] synthase OS=Sus scrofa OX=9823  
GN=GYS1 PE=1 SV=1;tr|A0A287B216|A0A287B216\_PIG Glycogen [starch] synthase OS=Sus scrofa  
OX=9823 GN=GYS1 PE=1 SV=1;tr|A0A287B8F4|A0A287B8F4\_PIG Glycogen [starch] synthase  
OS=Sus s  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 30,5 30,5 30,5  
6,2952 0 5,4901 2011400 1 A0A287B262 A0A287B262 419  
tr|A0A287B262|A0A287B262\_PIG HMA domain-containing protein OS=Sus scrofa OX=9823  
PE=1 SV=1  
0 2562300 3125700 0 2276900 0 0 0 0 0 0 0 2 2 2  
4 4 4 53,142 0,0022075 2,3575 16712000 3  
F1S4Z9;A0A5G2Q9D9;A0A287B2G7 F1S4Z9;A0A5G2Q9D9;A0A287B2G7 420  
tr|F1S4Z9|F1S4Z9\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 GN=CDK5RAP1 PE=1  
SV=2;tr|A0A5G2Q9D9|A0A5G2Q9D9\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
GN=CDK5RAP1 PE=1 SV=1;tr|A0A287B2G7|A0A287B2G7\_PIG Uncharacterized protein OS=Sus  
scrofa OX=  
0 2555400 0 0 0 0 2766400 0 9420800 3256700 0 0 3 3  
3 13,5 13,5 13,5 30,707 0 7,7041 43854000 8 A0A287B2M3;A0A5S8KR21;Q4GWZ2  
A0A287B2M3;A0A5S8KR21;Q4GWZ2 421 tr|A0A287B2M3|A0A287B2M3\_PIG 40S  
ribosomal protein SA OS=Sus scrofa OX=9823 GN=RPSA PE=1  
SV=1;tr|A0A5S8KR21|A0A5S8KR21\_PIG 40S ribosomal protein SA OS=Sus scrofa OX=9823  
GN=RPSA PE=1 SV=1;sp|Q4GWZ2|RSSA\_PIG 40S ribosomal protein SA OS=Sus scrofa OX=9823  
GN  
0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 3,6 3,6 3,6  
64,849 0,0078431 1,4975 42723000 3 A0A287B2W0;I3LNB4 A0A287B2W0;I3LNB4  
422 tr|A0A287B2W0|A0A287B2W0\_PIG Multifunctional fusion protein OS=Sus scrofa  
OX=9823 GN=ALDH4A1 PE=1 SV=1;tr|I3LNB4|I3LNB4\_PIG Multifunctional fusion protein OS=Sus  
scrofa OX=9823 GN=ALDH4A1 PE=1 SV=3  
0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 3,4 3,4 3,4  
100,39 0,0011377 2,618 8558200 4 Q29052;A0A287B3S3;F1SH96;CON\_Q0VCM5  
Q29052;A0A287B3S3 423 sp|Q29052|ITIH1\_PIG Inter-alpha-trypsin inhibitor heavy chain  
H1 OS=Sus scrofa OX=9823 GN=ITIH1 PE=2 SV=1;tr|A0A287B3S3|A0A287B3S3\_PIG Inter-alpha-  
trypsin inhibitor heavy chain H1 OS=Sus scrofa OX=9823 GN=ITIH1 PE=1 SV=2  
0 0 5676900 0 0 0 0 0 0 5087200 0 14665000 4 4 4  
16 16 16 34,373 0 5,8738 84346000 5  
A0A287B462;A0A481BCG1;F1S9I9;P0C2C3;A0A5G2QEM1;F1S9I6;A0A287B6R1  
A0A287B462;A0A481BCG1;F1S9I9;P0C2C3;A0A5G2QEM1 424  
tr|A0A287B462|A0A287B462\_PIG Mitochondrial amidoxime reducing component 2 OS=Sus  
scrofa OX=9823 GN=MTARC2 PE=1 SV=2;tr|A0A481BCG1|A0A481BCG1\_PIG Mitochondrial  
amidoxime reducing component 2 OS=Sus scrofa OX=9823 GN=MTARC2 PE=1  
SV=1;tr|F1S9I9|F1S9I9\_PIG Mit  
10731000 20030000 15572000 10698000 16970000 22032000 8498000 14680000 21032000 6417100  
17409000 22079000 14 14 12 40,6 40,6 36,8 50,241 0 60,171  
881890000 90 A0A287B4B7;A0A5G2QSK4;A0A287B6B3;F1RUK8;Q6Q7J2;A0A5G2RKF7

A0A287B4B7;A0A5G2QSK4;A0A287B6B3;F1RUK8;Q6Q7J2;A0A5G2RKF7 425  
tr|A0A287B4B7|A0A287B4B7\_PIG Rab GDP dissociation inhibitor OS=Sus scrofa OX=9823  
GN=GDI2 PE=1 SV=2;tr|A0A5G2QSK4|A0A5G2QSK4\_PIG Rab GDP dissociation inhibitor OS=Sus  
scrofa OX=9823 GN=GDI2 PE=1 SV=1;tr|A0A287B6B3|A0A287B6B3\_PIG Rab GDP dissociation  
inhibi  
7226600 14101000 14545000 9118000 7560600 5591500 8398200 15137000 12409000 10991000  
9224000 7152800 2 2 2 15,7 15,7 15,7 19,595 0 6,0636  
339820000 21 P61288;A0A5G2QHY7;A0A287B4E6;A0A287AMB0  
P61288;A0A5G2QHY7;A0A287B4E6;A0A287AMB0 426 sp|P61288|TCTP\_PIG  
Translationally-controlled tumor protein OS=Sus scrofa OX=9823 GN=TPT1 PE=2  
SV=1;tr|A0A5G2QHY7|A0A5G2QHY7\_PIG Translationally-controlled tumor protein OS=Sus scrofa  
OX=9823 GN=TPT1 PE=1 SV=1;tr|A0A287B4E6|A0A287B4E6\_PIG Translationally-c  
0 0 0 0 0 0 0 0 0 0 0 0 4 1 1 22,3 7,6 7,6  
21,104 0,0021739 2,2228 57737000 4 A0A287B4G4;A0A5G2QVC6  
A0A287B4G4;A0A5G2QVC6 427 tr|A0A287B4G4|A0A287B4G4\_PIG Rac family small  
GTPase 1 OS=Sus scrofa OX=9823 GN=RAC1 PE=1 SV=2;tr|A0A5G2QVC6|A0A5G2QVC6\_PIG Rac  
family small GTPase 1 OS=Sus scrofa OX=9823 GN=RAC1 PE=1 SV=1  
8079400 9299700 7558600 9596900 8578100 9314400 6723200 7309600 8682300 9578800  
8960400 10238000 7 7 7 16,7 16,7 16,7 47,694 0 8,9336  
362070000 30 Q710C4;A0A287B4J2;A0A5G2R5W8;A0A5G2Q7X1;F1S4Y7  
Q710C4;A0A287B4J2;A0A5G2R5W8;A0A5G2Q7X1;F1S4Y7 428 sp|Q710C4|SAHH\_PIG  
Adenosylhomocysteinase OS=Sus scrofa OX=9823 GN=AHCY PE=3  
SV=3;tr|A0A287B4J2|A0A287B4J2\_PIG Adenosylhomocysteinase OS=Sus scrofa OX=9823  
GN=AHCY PE=3 SV=1;tr|A0A5G2R5W8|A0A5G2R5W8\_PIG Adenosylhomocysteinase OS=Sus  
scrofa OX=9823 GN=AHCY  
6651300 5216100 7927700 6674100 5091700 9838600 7601800 0 7569400 6762200 6405200  
6248400 3 3 3 13,4 13,4 13,4 26,425 0 5,51 174110000 12  
A0A287B4K6;F2Z5C7;I3LN32 A0A287B4K6;F2Z5C7 429  
tr|A0A287B4K6|A0A287B4K6\_PIG 40S ribosomal protein S3a OS=Sus scrofa OX=9823  
GN=RPS3A PE=1 SV=1;tr|F2Z5C7|F2Z5C7\_PIG 40S ribosomal protein S3a OS=Sus scrofa OX=9823  
GN=RPS3A PE=1 SV=1  
0 5718200 4567200 4853500 0 4760600 4392300 0 5186300 0 4180100 4732600  
4 2 2 10,4 6,4 6,4 48,153 0 4,1004 82741000 3  
I3L893;A0A287B799;A0A287B4U1;A0A287BPJ1;A0A287BJD1  
I3L893;A0A287B799;A0A287B4U1;A0A287BPJ1;A0A287BJD1 430 tr|I3L893|I3L893\_PIG Rab  
GDP dissociation inhibitor OS=Sus scrofa OX=9823 GN=GDI1 PE=1  
SV=2;tr|A0A287B799|A0A287B799\_PIG Rab GDP dissociation inhibitor OS=Sus scrofa OX=9823  
GN=GDI1 PE=1 SV=1;tr|A0A287B4U1|A0A287B4U1\_PIG Rab GDP dissociation inhibitor OS=S  
0 28551000 38632000 0 23758000 25003000 0 16082000 20580000 0 0 79357000  
3 3 3 11,5 11,5 11,5 33,941 0 27,398 407530000 14  
A0A287B574;A0A5G2R4W7;F1SNZ6;O19069;A0A480U8Y2;A0A287BA50;A0A5G2QKE5;F1SN  
Z7  
A0A287B574;A0A5G2R4W7;F1SNZ6;O19069;A0A480U8Y2;A0A287BA50;A0A5G2QKE5;F1SN

Z7 431 tr|A0A287B574|A0A287B574\_PIG Succinate--CoA ligase [ADP/GDP-forming] subunit alpha, mitochondrial OS=Sus scrofa OX=9823 GN=SUCLG1 PE=3 SV=2;tr|A0A5G2R4W7|A0A5G2R4W7\_PIG Succinate--CoA ligase [ADP/GDP-forming] subunit alpha, mitochondrial OS=Sus scrofa OX=9

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 5,9 5,9 5,9  
19,509 0,0031712 2,0249 5509800 3 F1RGQ5;A0A287B5D6 F1RGQ5;A0A287B5D6

432 tr|F1RGQ5|F1RGQ5\_PIG Ankyrin repeat and FYVE domain containing 1 OS=Sus scrofa OX=9823 GN=ANKFY1 PE=3 SV=3;tr|A0A287B5D6|A0A287B5D6\_PIG Ankyrin repeat and FYVE domain containing 1 OS=Sus scrofa OX=9823 GN=ANKFY1 PE=1 SV=2

115430000 36857000 103680000 37655000 68874000 100260000 76984000 55655000 57857000  
84358000 71119000 101400000 192 192 47 33,3 33,3 8 772,72 0  
323,31 24067000000 1141

F1SHX0;A0A287B5G8;A0A287ARH5;A0A286ZNE6;REV\_\_A0A5G2R3Y3;REV\_\_A0A287BG82;  
REV\_\_I3LSJ0;REV\_\_F1SM42;REV\_\_A0A287A5J3;A0A287B9E8;F1RVG6;A0A287BFR4;A0A5G2QZ92  
;A0A287AHR6 F1SHX0;A0A287B5G8 433 tr|F1SHX0|F1SHX0\_PIG Nebulin OS=Sus scrofa OX=9823 GN=NEB PE=1 SV=4;tr|A0A287B5G8|A0A287B5G8\_PIG Nebulin OS=Sus scrofa OX=9823 GN=NEB PE=1 SV=2

6867900 3153600 3709300 0 2742600 0 0 0 0 3948000 0 0 3  
3 3 2,6 2,6 2,6 130,46 0 3,4947 63128000 8  
A0A287B7U5;A0A287B5N9;A0A287BD91;F1REW5

A0A287B7U5;A0A287B5N9;A0A287BD91;F1REW5 434 tr|A0A287B7U5|A0A287B7U5\_PIG CAP-Gly domain containing linker protein 1 OS=Sus scrofa OX=9823 GN=CLIP1 PE=1 SV=2;tr|A0A287B5N9|A0A287B5N9\_PIG CAP-Gly domain containing linker protein 1 OS=Sus scrofa OX=9823 GN=CLIP1 PE=1 SV=1;tr|A0A287BD91|A0A287BD91\_PIG C

0 0 0 0 0 0 0 50210000 56848000 0 0 0 4 1 1 4,9  
1,6 1,6 97,697 0 3,9619 185640000 2  
A0A5G2QA41;A0A287B5Q4;A0A287AIT2;A0A5G2R927;A0A286ZT48;F1SQK1  
A0A5G2QA41;A0A287B5Q4;A0A287AIT2;A0A5G2R927;A0A286ZT48;F1SQK1 435

tr|A0A5G2QA41|A0A5G2QA41\_PIG Reticulon OS=Sus scrofa OX=9823 GN=RTN4 PE=1 SV=1;tr|A0A287B5Q4|A0A287B5Q4\_PIG Reticulon OS=Sus scrofa OX=9823 GN=RTN4 PE=1 SV=2;tr|A0A287AIT2|A0A287AIT2\_PIG Reticulon OS=Sus scrofa OX=9823 GN=RTN4 PE=1 SV=2;tr|A0A5G2R927|A0A5G

0 0 0 0 0 0 13349000 0 9708900 0 0 2 2 2 19  
19 19 10,987 0,0011416 2,6732 104800000 11 A0A287B5X4 A0A287B5X4 437

tr|A0A287B5X4|A0A287B5X4\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 PE=3 SV=1

6862000 0 0 0 0 9766700 9760800 0 0 6283600 0 6707100 4  
4 4 9,5 9,5 9,5 44,17 0 7,5367 122210000 14 A0A287B626 A0A287B626

438 tr|A0A287B626|A0A287B626\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 PE=1 SV=2

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 2,5 2,5 2,5  
59,413 0 5,1685 3014200000 72 A0A287B699 A0A287B699 439

tr|A0A287B699|A0A287B699\_PIG Ankyrin repeat and SOCS box containing 16 OS=Sus scrofa OX=9823 GN=ASB16 PE=4 SV=1

14253000 0 0 0 0 14913000 0 0 0 0 3 3 3 5,8  
5,8 5,8 58,328 0 10,36 170480000 7  
F1SKI5;A0A287BMK8;A0A287B6A4;A0A5G2QZ62;A0A5G2Q9V4;F1SML7  
F1SKI5;A0A287BMK8;A0A287B6A4 440 tr|F1SKI5|F1SKI5\_PIG Inosine-5-monophosphate  
dehydrogenase OS=Sus scrofa OX=9823 GN=QRICH1 PE=1  
SV=3;tr|A0A287BMK8|A0A287BMK8\_PIG Inosine-5-monophosphate dehydrogenase OS=Sus  
scrofa OX=9823 GN=QRICH1 PE=1 SV=2;tr|A0A287B6A4|A0A287B6A4\_PIG Inosine-5-mono  
13687000 8442300 22168000 2292100 16679000 19717000 0 7856100 10648000 8035700 16630000  
37439000 10 10 10 18,8 18,8 18,8 62,921 0 35,141 850330000 71  
A0A287B6E3;A0A5G2QM65;A0A287BPI1;P55931;A0A286ZXI8;F1RW89;A0A287A4K6  
A0A287B6E3;A0A5G2QM65;A0A287BPI1;P55931;A0A286ZXI8;F1RW89;A0A287A4K6 441  
tr|A0A287B6E3|A0A287B6E3\_PIG Electron transfer flavoprotein-ubiquinone oxidoreductase  
OS=Sus scrofa OX=9823 GN=ETFDH PE=1 SV=1;tr|A0A5G2QM65|A0A5G2QM65\_PIG Electron  
transfer flavoprotein-ubiquinone oxidoreductase OS=Sus scrofa OX=9823 GN=ETFDH PE=1 SV=1;tr  
0 6044400 6498800 0 5686500 7899400 0 0 4574700 0 4312400 5876900  
5 5 5 6,9 6,9 6,9 90,943 0 9,4342 132980000 20  
F1RI15;A0A287B6J6;A0A5G2R0T1;A0A5G2RBW3  
F1RI15;A0A287B6J6;A0A5G2R0T1;A0A5G2RBW3 442 tr|F1RI15|F1RI15\_PIG Heat shock 70  
kDa protein 4 OS=Sus scrofa OX=9823 GN=HSPA4 PE=1 SV=3;tr|A0A287B6J6|A0A287B6J6\_PIG  
Heat shock 70 kDa protein 4 OS=Sus scrofa OX=9823 GN=HSPA4 PE=1  
SV=1;tr|A0A5G2R0T1|A0A5G2R0T1\_PIG Uncharacterized protein OS=Sus scrofa O  
4000800 6736700 0 3614300 11489000 5824500 0 11721000 0 3403000 9846700 4299400  
4 4 4 13,8 13,8 13,8 34,149 0 11,065 149290000 22  
A0A287B6M0;F1RXC2;A0A5G2QRG3 A0A287B6M0;F1RXC2;A0A5G2QRG3443  
tr|A0A287B6M0|A0A287B6M0\_PIG Carbonic anhydrase OS=Sus scrofa OX=9823 GN=CA2  
PE=1 SV=2;tr|F1RXC2|F1RXC2\_PIG Carbonic anhydrase OS=Sus scrofa OX=9823 GN=CA2 PE=1  
SV=2;tr|A0A5G2QRG3|A0A5G2QRG3\_PIG Carbonic anhydrase 2 OS=Sus scrofa OX=9823 GN=CA2  
PE=1 SV=1  
0 7329700 7334300 39603000 0 6267300 22519000 16300000 29113000 32415000 7252200  
6098200 17 1 1 44,9 3,2 3,2 47,432 0 3,1952 233430000 22  
A0A287B6S5 A0A287B6S5 444 tr|A0A287B6S5|A0A287B6S5\_PIG 2-phospho-D-glycerate  
hydro-lyase OS=Sus scrofa OX=9823 GN=ENO1 PE=1 SV=1  
0 7083800 0 15586000 0 0 10248000 9332900 0 18906000 0 0 2  
2 2 7,7 7,7 7,7 44,765 0 5,932 142440000 5  
I3LD55;A0A287B6T3;F1RXY4 I3LD55;A0A287B6T3;F1RXY4 445 tr|I3LD55|I3LD55\_PIG  
Ubiquinone biosynthesis O-methyltransferase, mitochondrial OS=Sus scrofa OX=9823 GN=COQ3  
PE=1 SV=2;tr|A0A287B6T3|A0A287B6T3\_PIG Ubiquinone biosynthesis O-methyltransferase,  
mitochondrial OS=Sus scrofa OX=9823 GN=FAXC PE=1 SV=1;tr|F1RXY  
0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 20,9 20,9 20,9  
12,784 0 6,0798 40868000 4 A0A287B6Y1;F2Z554 A0A287B6Y1;F2Z554 446  
tr|A0A287B6Y1|A0A287B6Y1\_PIG 60S ribosomal protein L30 OS=Sus scrofa OX=9823  
GN=RPL30 PE=1 SV=1;tr|F2Z554|F2Z554\_PIG 60S ribosomal protein L30 OS=Sus scrofa OX=9823  
GN=RPL30 PE=1 SV=2

11198000 0 10921000 15356000 0 9118500 24161000 0 6360100 29319000 0 9412900  
2 2 2 18 18 18 12,903 0 11,068 288720000 12  
A0A5G2QVI0;Q07717;A0A5S6FYV9;A0A287B7B9;A0A287BEM9;A0A5S6I1G3  
A0A5G2QVI0;Q07717;A0A5S6FYV9;A0A287B7B9;A0A287BEM9;A0A5S6I1G3 447  
tr|A0A5G2QVI0|A0A5G2QVI0\_PIG Beta-2-microglobulin OS=Sus scrofa OX=9823 GN=B2M  
PE=1 SV=1;sp|Q07717|B2MG\_PIG Beta-2-microglobulin OS=Sus scrofa OX=9823 GN=B2M PE=1  
SV=1;tr|A0A5S6FYV9|A0A5S6FYV9\_PIG Beta-2-microglobulin OS=Sus scrofa OX=9823 GN=B2M  
PE=1 SV=1  
0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 2,8 2,8 2,8  
76,244 0 3,5838 25589000 2  
I3LH62;A0A5G2QCD0;A0A287B7I4;F1SGB0;K7GM30;A0A5G2R7C3;K7GNF4;I3LAK5;A0A5G2  
QTK9;F1RQ52;A0A287BTE5;A0A286ZS04;K7GQ00;A0A287BD79;K7GSF4;A0A5G2QEG2;F1ST39;A  
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QTK9;F1RQ52;A0A287BTE5;A0A286ZS04;K7GQ00;A0A287BD79;K7GSF4;A0A5G2QEG2;F1ST39;A  
0A5G2QDJ5 448 tr|I3LH62|I3LH62\_PIG Fragile X mental retardation syndrome-related protein 1  
isoform X1 OS=Sus scrofa OX=9823 GN=FXR1 PE=1 SV=1;tr|A0A5G2QCD0|A0A5G2QCD0\_PIG  
Agenet-like domain-containing protein OS=Sus scrofa OX=9823 GN=FXR1 PE=1  
SV=1;tr|A0A287B7I4|A0A287B  
0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 8,7 8,7 8,7  
27,658 0 3,7353 15010000 3 A0A287B7J0;A0A287BD01;I3LIL5  
A0A287B7J0;A0A287BD01;I3LIL5 449 tr|A0A287B7J0|A0A287B7J0\_PIG  
Hydroxymethylglutaryl-CoA lyase OS=Sus scrofa OX=9823 GN=HMGCL PE=1  
SV=1;tr|A0A287BD01|A0A287BD01\_PIG Hydroxymethylglutaryl-CoA lyase OS=Sus scrofa  
OX=9823 GN=HMGCL PE=1 SV=1;tr|I3LIL5|I3LIL5\_PIG Hydroxymethylglutaryl-CoA lyase  
0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 5,7 5,7 5,7  
39,578 0 2,9284 122130000 12  
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F1SJU4  
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F1SJU4 450 tr|I3L973|I3L973\_PIG Parvin alpha OS=Sus scrofa OX=9823 GN=PARVA PE=1  
SV=3;tr|A0A287B7K9|A0A287B7K9\_PIG Parvin alpha OS=Sus scrofa OX=9823 GN=PARVA PE=1  
SV=1;tr|A0A5G2QJH9|A0A5G2QJH9\_PIG Parvin alpha OS=Sus scrofa OX=9823 GN=PARVA PE=1  
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0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 2,4 2,4 2,4  
63,661 0,0030211 1,7228 311120000 8 A0A287B7Q4 A0A287B7Q4 451  
tr|A0A287B7Q4|A0A287B7Q4\_PIG Family with sequence similarity 151 member A OS=Sus  
scrofa OX=9823 GN=FAM151A PE=3 SV=1  
11930000 9590400 7747600 40880000 0 12246000 20465000 10303000 18727000 31558000 11472000  
11725000 4 4 4 53 53 53 11,693 0 14,682 443480000 26  
A0A287B7U0;F1RYZ0;Q29315;F1RNZ2 A0A287B7U0;F1RYZ0 452  
tr|A0A287B7U0|A0A287B7U0\_PIG 60S acidic ribosomal protein P2 OS=Sus scrofa OX=9823

GN=RPLP2 PE=1 SV=2;tr|F1RYZ0|F1RYZ0\_PIG 60S acidic ribosomal protein P2 OS=Sus scrofa  
OX=9823 GN=RPLP2 PE=1 SV=2

9461400 6012900 6397300 0 3619600 0 0 0 0 0 0 0 3 3  
3 7,7 7,7 7,7 39,751 0 4,0894 57194000 9  
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A0A5G2R0W9;A0A5G2QRG6;F1RGC9;A0A287B7X9 453  
tr|A0A5G2R0W9|A0A5G2R0W9\_PIG 26S proteasome non-ATPase regulatory subunit 13  
OS=Sus scrofa OX=9823 GN=PSMD13 PE=1 SV=1;tr|A0A5G2QRG6|A0A5G2QRG6\_PIG 26S  
proteasome non-ATPase regulatory subunit 13 OS=Sus scrofa OX=9823 GN=PSMD13 PE=1  
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38196000 20898000 19856000 62378000 24246000 24314000 64954000 18860000 21119000 47551000  
20228000 21791000 8 8 8 25,1 25,1 25,1 36,864 0 51,697  
2136400000 92 A0A5G2QYZ3;A0A287B8B1;F1SRB9;A0A5G2R2Q0  
A0A5G2QYZ3;A0A287B8B1;F1SRB9;A0A5G2R2Q0 454 tr|A0A5G2QYZ3|A0A5G2QYZ3\_PIG  
STI1 domain-containing protein OS=Sus scrofa OX=9823 GN=ST13 PE=1  
SV=1;tr|A0A287B8B1|A0A287B8B1\_PIG STI1 domain-containing protein OS=Sus scrofa OX=9823  
GN=ST13 PE=1 SV=1;tr|F1SRB9|F1SRB9\_PIG STI1 domain-containing protein OS=S  
27133000 30089000 35191000 27857000 33223000 42155000 21608000 25791000 18930000 27633000  
37875000 48349000 6 6 6 19,2 19,2 19,2 38,318 0 16,675  
1177600000 38  
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A0A5G2QBD8;A0A2C9F3H3;A0A5G2RIA6;A0A287B8H8;P37111;A0A287BCN4;A0A5G2RAG0  
;I3LAP5;A0A286ZX40;A0A5S6IH59 455 tr|A0A5G2QBD8|A0A5G2QBD8\_PIG N-acyl-L-amino-  
acid amidohydrolase OS=Sus scrofa OX=9823 GN=ACY1 PE=3  
SV=1;tr|A0A2C9F3H3|A0A2C9F3H3\_PIG N-acyl-L-amino-acid amidohydrolase OS=Sus scrofa  
OX=9823 GN=ACY1 PE=3 SV=1;tr|A0A5G2RIA6|A0A5G2RIA6\_PIG N-acyl-L-amino-acid  
0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 12,5 12,5 12,5  
12,455 0 3,1265 17666000 3 A0A287B950;F2Z545;A0A5G2QXY8  
A0A287B950;F2Z545;A0A5G2QXY8 456 tr|A0A287B950|A0A287B950\_PIG Elongin-C  
OS=Sus scrofa OX=9823 GN=ELOC PE=1 SV=1;tr|F2Z545|F2Z545\_PIG Elongin-C OS=Sus scrofa  
OX=9823 GN=ELOC PE=1 SV=2;tr|A0A5G2QXY8|A0A5G2QXY8\_PIG Elongin-C OS=Sus scrofa  
OX=9823 GN=ELOC PE=1 SV=1

0 0 0 0 0 11753000 8085600 0 0 8596700 0 0 3 3 3  
15,6 15,6 15,6 18,412 0 6,9866 106420000 7 A0A287B975;A0A287AIM5  
A0A287B975 457 tr|A0A287B975|A0A287B975\_PIG CCHC-type zinc finger nucleic acid  
binding protein OS=Sus scrofa OX=9823 GN=CNBP PE=1 SV=2

0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 4,3 4,3 4,3  
57,043 0 3,1141 16987000 4 A0A287B9A6;F1S596 A0A287B9A6;F1S596 458  
tr|A0A287B9A6|A0A287B9A6\_PIG Glucosidase 2 subunit beta OS=Sus scrofa OX=9823  
GN=PRKCSH PE=1 SV=1;tr|F1S596|F1S596\_PIG Glucosidase 2 subunit beta OS=Sus scrofa OX=9823  
GN=PRKCSH PE=1 SV=1



0 0 0 0 13972000 0 0 10839000 0 9436400 0 24892000 3 3  
 3 16,6 16,6 16,6 20,741 0 30,524 184070000 15  
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 tr|A0A5G2QT22|A0A5G2QT22\_PIG Complex I-20kD OS=Sus scrofa OX=9823 GN=NDUFS7  
 PE=1 SV=1;tr|I3LK43|I3LK43\_PIG Complex I-20kD OS=Sus scrofa OX=9823 GN=NDUFS7 PE=1  
 SV=2;tr|A0A287B9B0|A0A287B9B0\_PIG Complex I-20kD OS=Sus scrofa OX=9823 GN=NDUFS7  
 PE=1 SV=1;tr|A0A  
 11153000 0 16143000 31800000 16137000 21095000 25669000 0 22957000 32378000 17495000  
 33526000 7 7 7 20,9 20,9 20,9 43,656 0 16,62 409620000 39  
 A0A287B9G0;F1SDC7;A0A287BBJ7 A0A287B9G0;F1SDC7;A0A287BBJ7 460  
 tr|A0A287B9G0|A0A287B9G0\_PIG Aldehyde dehydrogenase 3 family member A2 OS=Sus  
 scrofa OX=9823 GN=ALDH3A2 PE=1 SV=2;tr|F1SDC7|F1SDC7\_PIG Aldehyde dehydrogenase  
 OS=Sus scrofa OX=9823 GN=ALDH3A2 PE=1 SV=4;tr|A0A287BBJ7|A0A287BBJ7\_PIG Aldehyde  
 dehydrogenase 3 f  
 94483000 57246000 120810000 68474000 30443000 183160000 72969000 40111000 65477000  
 79068000 37290000 130790000 8 3 2 17 7,3 5,7 46,798 0  
 32,057 159160000 43 A0A287B9R5;F1SCD0 A0A287B9R5;F1SCD0 461  
 tr|A0A287B9R5|A0A287B9R5\_PIG SERPIN domain-containing protein OS=Sus scrofa OX=9823  
 GN=LOC100156325 PE=1 SV=1;tr|F1SCD0|F1SCD0\_PIG SERPIN domain-containing protein OS=Sus  
 scrofa OX=9823 GN=LOC100156325 PE=1 SV=2  
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 13 13 13  
 13,938 0,0032223 2,1176 38590000 1  
 F1S393;A0A287BA78;A0A5G2Q9T3;A0A5G2QSC0  
 F1S393;A0A287BA78;A0A5G2Q9T3;A0A5G2QSC0 463 tr|F1S393|F1S393\_PIG Cytochrome  
 b5 type B OS=Sus scrofa OX=9823 GN=CYB5B PE=1 SV=2;tr|A0A287BA78|A0A287BA78\_PIG  
 Cytochrome b5 type B OS=Sus scrofa OX=9823 GN=CYB5B PE=1  
 SV=2;tr|A0A5G2Q9T3|A0A5G2Q9T3\_PIG Cytochrome b5 type B OS=Sus scrofa OX=9823  
 GN=CYB5B P  
 12121000 0 30656000 25635000 20322000 29954000 15479000 0 38057000 36225000 21005000  
 42282000 4 4 4 31 31 31 13,303 0 35,01 608170000 25  
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 A0A287BAW0;A0A5G2RN85;A0A5G2QYE9;A0A5G2R584 464  
 tr|A0A287BAW0|A0A287BAW0\_PIG Complex I subunit B13 OS=Sus scrofa OX=9823  
 GN=NDUFA5 PE=1 SV=2;tr|A0A5G2RN85|A0A5G2RN85\_PIG Complex I subunit B13 OS=Sus  
 scrofa OX=9823 GN=NDUFA5 PE=1 SV=1;tr|A0A5G2QYE9|A0A5G2QYE9\_PIG Complex I subunit  
 B13 OS=Sus scrofa OX=98  
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 3 3 3 15 15 15 23,684 0 8,7139 239570000 19  
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 A0A287BAX8;A0A5G2QYW6;F1SN05;A0A5G2R3H6;I3LER8 465  
 tr|A0A287BAX8|A0A287BAX8\_PIG Eukaryotic translation initiation factor 3 subunit J OS=Sus

scrofa OX=9823 GN=EIF3J PE=1 SV=1;tr|A0A5G2QYW6|A0A5G2QYW6\_PIG Eukaryotic translation initiation factor 3 subunit J OS=Sus scrofa OX=9823 GN=EIF3J PE=1 SV=1;tr|F1SN05|

0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2,3	2,3	2,3
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102,52 0 11,496 110770000 8 A0A287BB12;A0A287AU07;I3L6I2;A0A286ZYM7  
A0A287BB12;A0A287AU07;I3L6I2;A0A286ZYM7 466 tr|A0A287BB12|A0A287BB12\_PIG  
Methylcrotonoyl-CoA carboxylase 1 OS=Sus scrofa OX=9823 GN=MCCC1 PE=1  
SV=2;tr|A0A287AU07|A0A287AU07\_PIG DCN1-like protein OS=Sus scrofa OX=9823  
GN=DCUN1D2 PE=4 SV=1;tr|I3L6I2|I3L6I2\_PIG DCN1-like protein OS=Sus scrofa OX=9823 G

16422000	0	22509000	0	13984000	0	0	0	0	0	0	13313000	4	4
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4 12 12 12 45,618 0 10,247 186570000 8  
A0A5S6GQX9;A0A287BB72;P54612;A0A5G2QGH9;A0A480F350  
A0A5S6GQX9;A0A287BB72;P54612;A0A5G2QGH9;A0A480F350 467  
tr|A0A5S6GQX9|A0A5S6GQX9\_PIG Serine/threonine-protein phosphatase 2A 65 kDa  
regulatory subunit A alpha isoform OS=Sus scrofa OX=9823 GN=PPP2R1A PE=4  
SV=1;tr|A0A287BB72|A0A287BB72\_PIG Serine/threonine-protein phosphatase 2A 65 kDa  
regulatory subunit A alpha

38647000	14301000	8940000	84145000	11285000	6321900	73139000	15033000	10501000	65838000	0
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0 6 6 6 35,8 35,8 35,8 27,946 0 79,739 1120400000 56  
A0A5G2Q828;A0A287BB89;F1RWH7;A0A287BDC6  
A0A5G2Q828;A0A287BB89;F1RWH7;A0A287BDC6 468 tr|A0A5G2Q828|A0A5G2Q828\_PIG  
Pyridoxal 5-phosphate synthase OS=Sus scrofa OX=9823 GN=PNPO PE=1  
SV=1;tr|A0A287BB89|A0A287BB89\_PIG Pyridoxal 5-phosphate synthase OS=Sus scrofa OX=9823  
GN=PNPO PE=1 SV=1;tr|F1RWH7|F1RWH7\_PIG Pyridoxal 5-phosphate synthase O

0	0	5710200	0	0	0	0	0	5155100	0	0	0	2	2	2	8,2
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8,2 8,2 30,189 0,0049456 1,5564 63361000 3 A0A5S6HDI4;A0A287BBI3;Q2YGT9  
A0A5S6HDI4;A0A287BBI3;Q2YGT9 469 tr|A0A5S6HDI4|A0A5S6HDI4\_PIG 60S ribosomal  
protein L6 OS=Sus scrofa OX=9823 GN=RPL6 PE=3 SV=1;tr|A0A287BBI3|A0A287BBI3\_PIG 60S  
ribosomal protein L6 OS=Sus scrofa OX=9823 GN=RPL6 PE=3 SV=1;sp|Q2YGT9|RL6\_PIG 60S  
ribosomal protein L6 OS=Sus scrofa OX=9823 GN=

0	0	0	0	0	50909000	0	0	0	10416000	0	0	6	5	5	36,4
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27,3 27,3 14,922 0 15,573 265360000 8  
P86412;A0A287BBN2;A0A5S6I907;A0A5S6HKQ5 P86412;A0A287BBN2;A0A5S6I907 470  
sp|P86412|MYP2\_PIG Myelin P2 protein OS=Sus scrofa OX=9823 GN=PMP2 PE=1  
SV=1;tr|A0A287BBN2|A0A287BBN2\_PIG Myelin P2 protein OS=Sus scrofa OX=9823 GN=PMP2  
PE=3 SV=1;tr|A0A5S6I907|A0A5S6I907\_PIG Myelin P2 protein OS=Sus scrofa OX=9823 GN=PMP2  
PE=3 SV=1

0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	7,6	7,6	7,6
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-----	-----	-----

19,881 0,0011614 2,7996 95495000 6 A0A287BCM2;F1RZR6 A0A287BCM2;F1RZR6  
471 tr|A0A287BCM2|A0A287BCM2\_PIG CutA divalent cation tolerance homolog OS=Sus  
scrofa OX=9823 GN=CUTA PE=1 SV=1;tr|F1RZR6|F1RZR6\_PIG CutA divalent cation tolerance  
homolog OS=Sus scrofa OX=9823 GN=CUTA PE=1 SV=2

39086000	29074000	35566000	39054000	39030000	34008000	47817000	25620000	23671000	38977000
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30055000 31229000 6 6 1 36,4 36,4 6,9 19,018 0 25,396

637000000 35  
A0A5G2QCI0;I3L6D2;Q52NJ2;F2Z5U4;A0A287BD00;A0A5G2QTM4;A0A5G2Q820;A0A5G2RA  
85;A0A5G2QA22  
A0A5G2QCI0;I3L6D2;Q52NJ2;F2Z5U4;A0A287BD00;A0A5G2QTM4;A0A5G2Q820;A0A5G2RA  
85 472 tr|A0A5G2QCI0|A0A5G2QCI0\_PIG Ras-related protein Rab-1A OS=Sus scrofa OX=9823  
GN=RAB1A PE=1 SV=1;tr|I3L6D2|I3L6D2\_PIG Ras-related protein Rab-1A OS=Sus scrofa OX=9823  
GN=RAB1A PE=1 SV=3;sp|Q52NJ2|RAB1A\_PIG Ras-related protein Rab-1A OS=Sus scrofa OX=9823  
G  
37056000 35359000 47237000 183460000 27118000 65947000 92276000 159340000 54724000  
119920000 47183000 88283000 22 2 0 55,4 10,2 0 33,109 0  
73,106 1379900000 43 A0A287BDL6 A0A287BDL6 473  
tr|A0A287BDL6|A0A287BDL6\_PIG Tropomyosin alpha-3 chain OS=Sus scrofa OX=9823  
GN=TPM3 PE=1 SV=2  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 25 25 25  
5,5151 0 2,9217 6638700 1 A0A287BDP1 A0A287BDP1 474  
tr|A0A287BDP1|A0A287BDP1\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 PE=1  
SV=2  
0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 10,9 10,9 10,9  
33,935 0 4,748 3430200 3 A0A287BHL2;A0A287BDT8 A0A287BHL2;A0A287BDT8  
475 tr|A0A287BHL2|A0A287BHL2\_PIG Phosphoglycolate phosphatase OS=Sus scrofa  
OX=9823 GN=PGP PE=1 SV=2;tr|A0A287BDT8|A0A287BDT8\_PIG Phosphoglycolate phosphatase  
OS=Sus scrofa OX=9823 GN=PGP PE=1 SV=1  
0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 7,1 7,1 7,1  
37,203 0,0030395 1,7633 2495600 2 A0A287BE42 A0A287BE42 476  
tr|A0A287BE42|A0A287BE42\_PIG NIMA related kinase 7 OS=Sus scrofa OX=9823 GN=NEK7  
PE=1 SV=2  
17324000 17700000 0 34165000 16880000 11851000 34254000 8992000 10941000 27951000 11337000  
0 3 3 3 18,5 18,5 18,5 24,074 0 10,044 392160000 20  
A0A287BEC7;A0A5G2R1F8;A0A287A9H6;A0A286ZY50;A0A5G2R276;A0A287BGB3;F1SL42;A  
0A287BBQ2;A0A5G2QT82;A0A5G2RDW5;A0A5G2R892  
A0A287BEC7;A0A5G2R1F8;A0A287A9H6;A0A286ZY50;A0A5G2R276 477  
tr|A0A287BEC7|A0A287BEC7\_PIG Vesicle associated membrane protein 3 OS=Sus scrofa  
OX=9823 GN=VAMP3 PE=1 SV=2;tr|A0A5G2R1F8|A0A5G2R1F8\_PIG Vesicle associated membrane  
protein 3 OS=Sus scrofa OX=9823 GN=VAMP3 PE=1 SV=1;tr|A0A287A9H6|A0A287A9H6\_PIG  
Synaptobrev  
6187800 0 9807500 14036000 6926300 8016300 13535000 0 0 15584000 0 7814400  
2 2 2 20,8 20,8 20,8 18,379 0 10,53 180990000 7  
A0A287BFU3;F2Z594;A0A287BEI7;P12682 A0A287BFU3;F2Z594;A0A287BEI7;P12682 478  
tr|A0A287BFU3|A0A287BFU3\_PIG High mobility group protein B1 OS=Sus scrofa OX=9823  
GN=HMGB1 PE=1 SV=1;tr|F2Z594|F2Z594\_PIG High mobility group protein 1 OS=Sus scrofa  
OX=9823 GN=HMGB1 PE=1 SV=3;tr|A0A287BEI7|A0A287BEI7\_PIG High mobility group protein B1  
OS=

0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 11,2 11,2 11,2  
11,213 0 4,0229 7782000 4 K9J4R8;A0A287BEK8 K9J4R8;A0A287BEK8 479  
tr|K9J4R8|K9J4R8\_PIG Protein S100-A13 OS=Sus scrofa OX=9823 GN=S100A13 PE=1  
SV=1;tr|A0A287BEK8|A0A287BEK8\_PIG S100 calcium binding protein A13 OS=Sus scrofa OX=9823  
GN=S100A13 PE=1 SV=1

0 5263600 5319200 0 9779500 0 0 0 4718600 0 0 0 3 3  
1 12,3 12,3 2,7 33,719 0 4,268 77809000 5  
A0A5G2Q7R9;F1RL80;A0A287BER5;A0A5G2Q850;A0A5G2RDA5;F1RL81;A0A287B3D6  
A0A5G2Q7R9;F1RL80;A0A287BER5;A0A5G2Q850;A0A5G2RDA5;F1RL81;A0A287B3D6 480  
tr|A0A5G2Q7R9|A0A5G2Q7R9\_PIG Branched-chain-amino-acid aminotransferase OS=Sus  
scrofa OX=9823 GN=BCAT2 PE=1 SV=1;tr|F1RL80|F1RL80\_PIG Branched-chain-amino-acid  
aminotransferase OS=Sus scrofa OX=9823 GN=BCAT2 PE=1  
SV=3;tr|A0A287BER5|A0A287BER5\_PIG Branched-

0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 3,8 3,8 3,8  
32,282 0,003125 1,92 489560000 2 A0A287BF04 A0A287BF04 481  
tr|A0A287BF04|A0A287BF04\_PIG 2-oxoglutarate and iron dependent oxygenase domain  
containing 2 OS=Sus scrofa OX=9823 GN=OGFOD2 PE=4 SV=2

27985000 12169000 0 0 0 0 10879000 0 0 10575000 0 0 5 5  
1 10,7 10,7 3,5 74,866 0 32,177 218920000 12 A0A287BF97 A0A287BF97 482  
tr|A0A287BF97|A0A287BF97\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
GN=EEF1D PE=1 SV=2

6701700 6585100 8347000 0 4221200 5241900 0 0 6737700 0 5112300 4782100  
5 5 5 9,3 9,3 9,3 66,955 0 8,8019 128760000 13  
A0A287BFC9;Q9GMB0;A0A287BR84;A0A5G2R686;F1SPG2  
A0A287BFC9;Q9GMB0;A0A287BR84;A0A5G2R686;F1SPG2 483  
tr|A0A287BFC9|A0A287BFC9\_PIG Dolichyl-diphosphooligosaccharide--protein  
glycosyltransferase subunit 1 OS=Sus scrofa OX=9823 GN=RPN1 PE=3 SV=1;sp|Q9GMB0|RPN1\_PIG  
Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1 OS=Sus scrofa OX=9823

8916700 9633000 0 3397800 6314100 3968200 10964000 5290200 3873800 4763700 0  
3962800 3 3 3 20 20 20 16,357 0 5,2364 123580000 14  
F1S9R0;A0A287BFL8;A0A287BG92;A0A287BJ15  
F1S9R0;A0A287BFL8;A0A287BG92;A0A287BJ15 484 tr|F1S9R0|F1S9R0\_PIG  
Uncharacterized protein OS=Sus scrofa OX=9823 GN=MSH4 PE=1  
SV=1;tr|A0A287BFL8|A0A287BFL8\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
GN=MSH4 PE=1 SV=2;tr|A0A287BG92|A0A287BG92\_PIG Geranylgeranyl transferase type-2  
subunit beta OS

5486500 0 0 6373700 0 4002500 9399500 0 0 5281000 0 0 5  
5 5 10,7 10,7 10,7 66,598 0 12,815 102220000 21  
I3L9I6;A0A5G2QRV6;A0A5G2QY76;A0A5G2QW74;A0A287BFP3;K7GPM6  
I3L9I6;A0A5G2QRV6;A0A5G2QY76;A0A5G2QW74;A0A287BFP3;K7GPM6 485  
tr|I3L9I6|I3L9I6\_PIG Basal cell adhesion molecule OS=Sus scrofa OX=9823 GN=BCAM PE=1  
SV=2;tr|A0A5G2QRV6|A0A5G2QRV6\_PIG Basal cell adhesion molecule OS=Sus scrofa OX=9823

GN=BCAM PE=1 SV=1;tr|A0A5G2QY76|A0A5G2QY76\_PIG Basal cell adhesion molecule OS=Sus scr

7122500 0 0 4266700 0 0 0 0 0 0 0 0 2 2 2 8,8  
8,8 8,8 21,065 0 2,8805 31961000 6 A0A287BFZ5;A0A287BG47;F1S398

A0A287BFZ5;A0A287BG47;F1S398 486 tr|A0A287BFZ5|A0A287BFZ5\_PIG Clathrin light chain OS=Sus scrofa OX=9823 GN=CLTB PE=1 SV=1;tr|A0A287BG47|A0A287BG47\_PIG Clathrin light chain OS=Sus scrofa OX=9823 GN=CLTB PE=1 SV=1;tr|F1S398|F1S398\_PIG Clathrin light chain OS=Sus scrofa OX=9823 GN=CLTB PE=1

82995000 81677000 180530000 101070000 147720000 181540000 73449000 67323000  
140620000 118650000 150650000 281050000 7 7 7 20,3 20,3  
20,3 39,888 0 23,765 627220000 104

F1SQT3;A0A5G2Q9K8;A0A287BGP7;A0A5G2QMB3;A0A287AB71

F1SQT3;A0A5G2Q9K8;A0A287BGP7;A0A5G2QMB3;A0A287AB71 487

tr|F1SQT3|F1SQT3\_PIG Phosphate carrier protein, mitochondrial OS=Sus scrofa OX=9823  
GN=SLC25A3 PE=1 SV=2;tr|A0A5G2Q9K8|A0A5G2Q9K8\_PIG Phosphate carrier protein,  
mitochondrial OS=Sus scrofa OX=9823 GN=SLC25A3 PE=1  
SV=1;tr|A0A287BGP7|A0A287BGP7\_PIG Phosphate

15002000 10862000 9754300 0 0 8334100 0 0 9039100 6198400 0 7775600  
7 7 7 5 5 5 182,11 0 10,941 241500000 10

A0A5G2QZ02;A0A287BGV6;F1S285;K7GT00;A0A5G2QE84;A0A480I6I0;A0A5G2R816;A0A5G2  
QYZ9 A0A5G2QZ02;A0A287BGV6;F1S285;K7GT00;A0A5G2QE84;A0A480I6I0 488

tr|A0A5G2QZ02|A0A5G2QZ02\_PIG Collagen type XIV alpha 1 chain OS=Sus scrofa OX=9823  
GN=COL14A1 PE=1 SV=1;tr|A0A287BGV6|A0A287BGV6\_PIG Collagen type XIV alpha 1 chain  
OS=Sus scrofa OX=9823 GN=COL14A1 PE=1 SV=1;tr|F1S285|F1S285\_PIG Collagen type XIV alpha 1  
c

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 5,1 5,1 5,1  
34,143 0 5,0203 33904000 4 A0A287BGW4 A0A287BGW4 489

tr|A0A287BGW4|A0A287BGW4\_PIG Delta-aminolevulinic acid dehydratase OS=Sus scrofa  
OX=9823 GN=ALAD PE=1 SV=2

78616000 149480000 350990000 124560000 296940000 323880000 81190000  
171440000 252360000 109600000 296120000 467990000 17 17  
17 39,5 39,5 39,5 47,436 0 131,98 14962000000 268

P00506;A0A287BH33;A0A5G2Q7P6;A0A5G2R2E7;A0A5S6HCM2

P00506;A0A287BH33;A0A5G2Q7P6;A0A5G2R2E7;A0A5S6HCM2 490 sp|P00506|AATM\_PIG  
Aspartate aminotransferase, mitochondrial OS=Sus scrofa OX=9823 GN=GOT2 PE=1  
SV=2;tr|A0A287BH33|A0A287BH33\_PIG Aspartate aminotransferase OS=Sus scrofa OX=9823  
GN=GOT2 PE=1 SV=1;tr|A0A5G2Q7P6|A0A5G2Q7P6\_PIG Aspartate aminotransferase OS=

2256200000 802670000 347380000 3958200000 514790000 680690000 3047700000  
636740000 702480000 1587200000 478970000 318450000 25 25  
4 57 57 10,4 35,381 0 323,31 123470000000 951

A0A287BHM1;A0A287B5N7;A0A5G2QG60;A0A286ZRE1;A0A287BCP0;F2Z5B6;A0A287BRY0;  
A0A5G2R733 A0A287BHM1;A0A287B5N7;A0A5G2QG60;A0A286ZRE1;A0A287BCP0;F2Z5B6 491  
tr|A0A287BHM1|A0A287BHM1\_PIG Tropomyosin alpha-1 chain OS=Sus scrofa OX=9823

GN=TPM1 PE=1 SV=2;tr|A0A287B5N7|A0A287B5N7\_PIG Tropomyosin alpha-1 chain OS=Sus scrofa OX=9823 GN=TPM1 PE=1 SV=2;tr|A0A5G2QG60|A0A5G2QG60\_PIG Tropomyosin alpha-1 chain OS=Sus scro

63931000 57743000 38227000 95097000 44509000 40486000 111860000 43146000 32064000 79276000  
37271000 38950000 12 12 10 28 28 25,1 56,92 0 107,21  
3175500000 83

Q2XQV4;A0A287BHY7;A0A287A8H8;A0A2C9F3B1;A0A5G2R5I9;I3LSK6;I3LK62;A0A5G2RN58;F1ST54 Q2XQV4;A0A287BHY7;A0A287A8H8;A0A2C9F3B1 492 sp|Q2XQV4|ALDH2\_PIG Aldehyde dehydrogenase, mitochondrial OS=Sus scrofa OX=9823 GN=ALDH2 PE=2 SV=1;tr|A0A287BHY7|A0A287BHY7\_PIG Aldehyde dehydrogenase, mitochondrial OS=Sus scrofa OX=9823 GN=ALDH2 PE=1 SV=2;tr|A0A287A8H8|A0A287A8H8\_PIG Aldehyde dehydrogenase 30916000 9546900 18496000 20950000 16028000 33008000 16655000 6866600 19263000 42476000

18248000 29449000 3 3 3 17,6 17,6 17,6 20,318 0 8,1736

500930000 27 A0A287BI30 A0A287BI30 493 tr|A0A287BI30|A0A287BI30\_PIG

Calponin-homology (CH) domain-containing protein OS=Sus scrofa OX=9823 GN=SMTNL1 PE=4 SV=2

212710000 163520000 210960000 246430000 222840000 299110000 286970000  
150000000 255270000 353810000 197630000 256070000 9 8  
8 51,4 46,3 46,3 23,839 0 49,355 8140200000 144

A0A287BI36;A0A287A7G2;F1RWW4;A0A287A1G4;A0A287A3D2

A0A287BI36;A0A287A7G2;F1RWW4;A0A287A1G4;A0A287A3D2 494

tr|A0A287BI36|A0A287BI36\_PIG PDZ and LIM domain 5 OS=Sus scrofa OX=9823 GN=PDLIM5 PE=1 SV=1;tr|A0A287A7G2|A0A287A7G2\_PIG PDZ and LIM domain 5 OS=Sus scrofa OX=9823 GN=PDLIM5 PE=1 SV=1;tr|F1RWW4|F1RWW4\_PIG PDZ and LIM domain 5 OS=Sus scrofa OX=9823 GN=PDLIM

24243000 20038000 19576000 25327000 17690000 24554000 22403000 14967000 20405000 23307000

18840000 21959000 17 16 16 29,7 27,2 27,2 73,008 0 70,538

190220000 128 A0A287BIL8;P34935 A0A287BIL8 495

tr|A0A287BIL8|A0A287BIL8\_PIG 78 kDa glucose-regulated protein OS=Sus scrofa OX=9823 GN=HSPA5 PE=1 SV=2

0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 4,5 4,5 4,5  
40,23 0 3,1939 18163000 1 F2Z521;A0A287BJ33;Q9GL51;A0A480UJL5

F2Z521;A0A287BJ33;Q9GL51;A0A480UJL5 496 tr|F2Z521|F2Z521\_PIG Platelet-activating factor acetylhydrolase IB subunit alpha OS=Sus scrofa OX=9823 GN=PAFAH1B1 PE=1 SV=2;tr|A0A287BJ33|A0A287BJ33\_PIG Platelet-activating factor acetylhydrolase IB subunit alpha OS=Sus scrofa OX=9823 GN=PAFAH1B1 PE=1 SV=

0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 5,5 5,5 5,5  
48,194 0 6,8169 23639000 6 F1RWI8;A0A287BJ40;A0A5G2QKI6

F1RWI8;A0A287BJ40;A0A5G2QKI6 497 tr|F1RWI8|F1RWI8\_PIG Secernin-2 OS=Sus scrofa OX=9823 GN=SCRN2 PE=1 SV=2;tr|A0A287BJ40|A0A287BJ40\_PIG Secernin 2 OS=Sus scrofa OX=9823 GN=SCRN2 PE=1 SV=1;tr|A0A5G2QKI6|A0A5G2QKI6\_PIG Secernin 2 OS=Sus scrofa OX=9823 GN=SCRN2 PE=1 SV=1

0 0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 6,9 6,9 6,9  
 48,043 0 2,9662 12254000 3 K9IVQ0;F1SI55;A0A287BJF3 K9IVQ0;F1SI55;A0A287BJF3  
 498 tr|K9IVQ0|K9IVQ0\_PIG Basic leucine zipper and W2 domain-containing protein 1 OS=Sus  
 scrofa OX=9823 GN=BZW1 PE=1 SV=1;tr|F1SI55|F1SI55\_PIG Basic leucine zipper and W2 domains  
 1 OS=Sus scrofa OX=9823 GN=BZW1 PE=1 SV=3;tr|A0A287BJF3|A0A287BJF3\_PIG Basic leuci  
 6366900 4836900 0 8846600 0 4578200 10576000 0 14632000 11137000 5287900 5274700  
 6 6 6 13,8 13,8 13,8 58,571 0 18,226 210330000 31  
 F1S5Z3;A0A287BJI6 F1S5Z3;A0A287BJI6 499 tr|F1S5Z3|F1S5Z3\_PIG Seryl-tRNA  
 synthetase OS=Sus scrofa OX=9823 GN=SARS1 PE=1 SV=3;tr|A0A287BJI6|A0A287BJI6\_PIG Seryl-  
 tRNA synthetase OS=Sus scrofa OX=9823 GN=SARS1 PE=1 SV=2  
 98075000 312920000 116870000 8035700 158200000 27553000 2393900 88405000 66652000  
 3543200 90444000 11227000 22 22 22 27,3 27,3 27,3 86,502 0 69,135  
 5252300000 148  
 B5SYT7;A0A287BJN4;I3LCG9;A0A287BD33;A0A287ATV5;A0A286ZPN9;A0A287A3U3  
 B5SYT7;A0A287BJN4 500 tr|B5SYT7|B5SYT7\_PIG AMP deaminase OS=Sus scrofa OX=9823  
 GN=AMPD1 PE=1 SV=1;tr|A0A287BJN4|A0A287BJN4\_PIG AMP deaminase OS=Sus scrofa  
 OX=9823 GN=AMPD1 PE=1 SV=2  
 23685000 13729000 11165000 27280000 15510000 15297000 30335000 12520000 13456000 27854000  
 13227000 10742000 7 7 7 26,3 26,3 26,3 37,115 0 22,815  
 850150000 59 A0A287BK05 A0A287BK05 501 tr|A0A287BK05|A0A287BK05\_PIG  
 Junctional sarcoplasmic reticulum protein 1 OS=Sus scrofa OX=9823 GN=JSRP1 PE=4 SV=1  
 7464700 8602400 7399800 9969500 6390000 7475000 13406000 0 6613900 13478000 7904500  
 4817400 6 6 6 19,4 19,4 19,4 38,732 0 20,232 286570000 15  
 A0A5G2QPL5;A0A287BKA5 A0A5G2QPL5;A0A287BKA5 502  
 tr|A0A5G2QPL5|A0A5G2QPL5\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
 GN=PRR33 PE=4 SV=1;tr|A0A287BKA5|A0A287BKA5\_PIG Uncharacterized protein OS=Sus scrofa  
 OX=9823 GN=PRR33 PE=4 SV=1  
 13903000 9666100 11006000 19890000 13736000 15469000 20466000 6966800 9984100 19762000  
 12811000 13990000 12 12 12 19,6 19,6 19,6 78,993 0 64,733  
 836150000 77 A0A287BL58;F1RGP4 A0A287BL58;F1RGP4 503  
 tr|A0A287BL58|A0A287BL58\_PIG Pre-B-cell leukemia transcription factor-interacting protein 1  
 isoform 1 OS=Sus scrofa OX=9823 GN=PBXIP1 PE=1 SV=1;tr|F1RGP4|F1RGP4\_PIG Uncharacterized  
 protein OS=Sus scrofa OX=9823 GN=PBXIP1 PE=1 SV=3  
 0 16559000 12893000 0 11892000 11273000 0 8691100 11974000 0 14855000 8354000  
 2 2 2 5,1 5,1 5,1 37,945 0,0022124 2,3714 224630000 10  
 A0A5G2QTJ4;A0A5G2RGJ8;A0A5G2RBK5;A0A287BMG2;A0A287BLP6  
 A0A5G2QTJ4;A0A5G2RGJ8;A0A5G2RBK5;A0A287BMG2;A0A287BLP6 505  
 tr|A0A5G2QTJ4|A0A5G2QTJ4\_PIG Very-long-chain enoyl-CoA reductase OS=Sus scrofa  
 OX=9823 GN=TECR PE=1 SV=1;tr|A0A5G2RGJ8|A0A5G2RGJ8\_PIG Very-long-chain enoyl-CoA  
 reductase OS=Sus scrofa OX=9823 GN=TECR PE=1 SV=1;tr|A0A5G2RBK5|A0A5G2RBK5\_PIG  
 Trans-2,3-enoyl-C  
 3929300 0 0 3411100 0 0 0 0 0 0 0 0 3 3 3 7,7  
 7,7 7,7 44,855 0 3,1618 30546000 4 A0A287BM29;F1SJT7;O46409

A0A287BM29;F1SJT7;O46409 506 tr|A0A287BM29|A0A287BM29\_PIG Apolipoprotein A-IV OS=Sus scrofa OX=9823 GN=APOA4 PE=1 SV=1;tr|F1SJT7|F1SJT7\_PIG Apolipoprotein A-IV OS=Sus scrofa OX=9823 GN=APOA4 PE=1 SV=4;sp|O46409|APOA4\_PIG Apolipoprotein A-IV OS=Sus scrofa OX=9823 GN=APOA4 PE=2 SV=1

27829000 21268000 65539000 8733600 48142000 14158000 37014000 19883000 36084000 33300000  
34553000 34705000 24 24 24 34 34 34 78,032 0 113,67  
3270200000 172

A0A287BMY7;A0A287BM44;A0A5G2QI99;A0A480QCC9;A0A5G2QBV9;F1RSZ3;A0A287AIP7;A0A5G2QCS2;A0A5G2RDH5;A0A5G2R2U1;F1RJV7;A0A287ALQ2;A0A5G2Q912;A0A480HMS5;A0A287BLC7;A0A480ZTJ9;A0A5G2QMM8

A0A287BMY7;A0A287BM44;A0A5G2QI99;A0A480QCC9;A0A5G2QBV9;F1RSZ3;A0A287AIP7;A0A5G2QCS2;A0A5G2RDH5;A0A5G2R2U1 507 tr|A0A287BMY7|A0A287BMY7\_PIG Acyl-CoA synthetase long chain family member 1 OS=Sus scrofa OX=9823 GN=ACSL1 PE=1 SV=1;tr|A0A287BM44|A0A287BM44\_PIG Acyl-CoA synthetase long chain family member 1 OS=Sus scrofa OX=9823 GN=ACSL1 PE=1 SV=1;tr|A0A5G2QI99|A0A5G2QI

0 7447800 13648000 9852900 9429100 7355100 5673200 14383000 13472000 10634000 9766400  
17893000 7 7 7 13,9 13,9 13,9 61,142 0 11,929 374310000 33

A0A287BMB4;P13191 A0A287BMB4508 tr|A0A287BMB4|A0A287BMB4\_PIG Alanine aminotransferase 1 OS=Sus scrofa OX=9823 GN=GPT PE=1 SV=1

37195000 16845000 36448000 59381000 28818000 31463000 46390000 0 28131000 98023000 24797000  
66852000 3 3 3 26,2 26,2 26,2 18,442 0 35,005 799670000 35

A0A287BMW6;A0A5G2R381 A0A287BMW6;A0A5G2R381 509  
tr|A0A287BMW6|A0A287BMW6\_PIG Complex I-ESSS OS=Sus scrofa OX=9823 GN=NDUFB11 PE=1 SV=2;tr|A0A5G2R381|A0A5G2R381\_PIG Complex I-ESSS OS=Sus scrofa OX=9823 GN=NDUFB11 PE=1 SV=1

3204800 0 4223200 10468000 3162600 9445300 8337800 0 4664700 9068000 4213400  
4398100 11 11 11 10,2 10,2 10,2 132,93 0 23,604 281660000 31

I3LJT1;A0A287BMX9;F1RGY5 I3LJT1;A0A287BMX9;F1RGY5 510 tr|I3LJT1|I3LJT1\_PIG Nidogen 1 OS=Sus scrofa OX=9823 GN=NID1 PE=1 SV=3;tr|A0A287BMX9|A0A287BMX9\_PIG Nidogen 1 OS=Sus scrofa OX=9823 GN=NID1 PE=1 SV=1;tr|F1RGY5|F1RGY5\_PIG Nidogen 1 OS=Sus scrofa OX=9823 GN=NID1 PE=1 SV=4

21605000 0 20422000 0 18785000 0 0 0 0 13556000 152 16  
0 31,1 3,8 0 644,24 0 40,478 654450000 47 A0A287BN18 A0A287BN18 511  
tr|A0A287BN18|A0A287BN18\_PIG Nebulin OS=Sus scrofa OX=9823 GN=NEB PE=1 SV=2

0 0 0 0 0 0 0 0 0 0 0 0 3 1 1 15,7 5,6 5,6  
23,466 0,0022051 2,346 0 1 A0A287BN36 A0A287BN36 512  
tr|A0A287BN36|A0A287BN36\_PIG RAB5C, member RAS oncogene family OS=Sus scrofa OX=9823 GN=RAB5C PE=1 SV=1

0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 6,6 6,6 6,6  
58,158 0 3,6026 41164000 5 A0A287BND4;F1SKZ8;A0A480UKD4

A0A287BND4;F1SKZ8;A0A480UKD4 513 tr|A0A287BND4|A0A287BND4\_PIG Translocase of outer mitochondrial membrane 70 OS=Sus scrofa OX=9823 GN=TOMM70 PE=1



SV=2;tr|F1SKZ8|F1SKZ8\_PIG Mitochondrial import receptor subunit TOM70 OS=Sus scrofa  
OX=9823 GN=TOMM70 PE=1 SV=3;tr|A0A480UKD4|A0A480UKD4\_PIG Mi  
0 0 0 0 0 0 6580700 0 0 8084300 0 0 3 3 3 14  
14 14 24,728 0 9,535 77703000 16 A0A287BNE4 A0A287BNE4 514  
tr|A0A287BNE4|A0A287BNE4\_PIG Ubiquitin conjugating enzyme E2 M OS=Sus scrofa  
OX=9823 GN=UBE2M PE=1 SV=2  
31460000 0 36249000 5349300 15245000 9740800 12756000 32704000 6696700 18333000 35506000  
32013000 11 11 11 22,7 22,7 22,7 61,815 0 55,023 110570000 50  
A0A287BNL5 A0A287BNL5 515 tr|A0A287BNL5|A0A287BNL5\_PIG Uncharacterized protein  
OS=Sus scrofa OX=9823 PE=4 SV=2  
9739900 0 8589600 13355000 0 7796500 17382000 0 10166000 11933000 10140000 0  
4 4 4 20,5 20,5 20,5 20,801 0 7,2966 229790000 13  
A0A5G2QM16;A0A287BNW6 A0A5G2QM16;A0A287BNW6 516  
tr|A0A5G2QM16|A0A5G2QM16\_PIG Endothelial differentiation related factor 1 OS=Sus scrofa  
OX=9823 GN=EDF1 PE=1 SV=1;tr|A0A287BNW6|A0A287BNW6\_PIG Endothelial differentiation  
related factor 1 OS=Sus scrofa OX=9823 GN=EDF1 PE=1 SV=1  
0 0 4182000 0 0 8223800 0 0 0 0 0 9034800 4 4 4  
9,4 9,4 9,4 58,922 0 8,9272 74587000 8 A0A287BNZ5;F1SJ30;A0A287BL80  
A0A287BNZ5;F1SJ30;A0A287BL80 517 tr|A0A287BNZ5|A0A287BNZ5\_PIG Mannose-6-  
phosphate isomerase OS=Sus scrofa OX=9823 GN=MPI PE=1 SV=2;tr|F1SJ30|F1SJ30\_PIG Mannose-  
6-phosphate isomerase OS=Sus scrofa OX=9823 GN=MPI PE=1  
SV=3;tr|A0A287BL80|A0A287BL80\_PIG Mannose-6-phosphate isomerase OS=Sus sc  
0 3379000 6092200 0 0 2843400 0 0 0 0 0 0 2 2 2  
5,4 5,4 5,4 49,613 0 6,3331 35617000 3  
Q29090;A0A287BPB7;F2Z509;A0A5G2QQ55 Q29090;A0A287BPB7;F2Z509;A0A5G2QQ55  
518 sp|Q29090|2ABA\_PIG Serine/threonine-protein phosphatase 2A 55 kDa regulatory  
subunit B alpha isoform (Fragment) OS=Sus scrofa OX=9823 GN=PPP2R2A PE=2  
SV=1;tr|A0A287BPB7|A0A287BPB7\_PIG Serine/threonine-protein phosphatase 2A 55 kDa  
regulatory subunit B OS=S  
0 5461300 6078000 0 0 6131200 0 0 8085300 0 0 0 2 2  
2 11,5 11,5 11,5 15,297 0,0087464 1,4421 63521000 12  
Q29197;A0A287BPF2;I3LEX0 Q29197;A0A287BPF2;I3LEX0 519 sp|Q29197|RS9\_PIG  
40S ribosomal protein S9 (Fragment) OS=Sus scrofa OX=9823 GN=RPS9 PE=2  
SV=1;tr|A0A287BPF2|A0A287BPF2\_PIG 40S ribosomal protein S9 OS=Sus scrofa OX=9823 GN=RPS9  
PE=3 SV=1;tr|I3LEX0|I3LEX0\_PIG 40S ribosomal protein S9 OS=Sus scrofa OX=9823  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0,7 0,7 0,7  
136,93 0,0032258 2,1216 0 1 A0A5G2R855;I3LH91;F1RIW3;A0A287BPI5  
A0A5G2R855;I3LH91;F1RIW3;A0A287BPI5 520 tr|A0A5G2R855|A0A5G2R855\_PIG  
Uncharacterized protein OS=Sus scrofa OX=9823 GN=PALLD PE=1 SV=1;tr|I3LH91|I3LH91\_PIG  
Uncharacterized protein OS=Sus scrofa OX=9823 GN=PALLD PE=1 SV=2;tr|F1RIW3|F1RIW3\_PIG  
Palladin isoform X1 OS=Sus scrofa OX=9823 GN=PALLD PE=1  
650970000 1022800000 2972500000 870990000 2076400000 2948800000 572990000  
1085800000 1952500000 895110000 1916900000 4449400000 14 14

14 31,9 31,9 31,9 48,561 0 45,155 25529000000 154  
 A0A5G2QGJ8;A0A5G2QGB1;A0A287BPJ7;A0A5G2R343;F1SDN2;A0A5G2RB89;A0A5G2QL38;  
 A0A5G2QPP5;A0A5G2REA8  
 A0A5G2QGJ8;A0A5G2QGB1;A0A287BPJ7;A0A5G2R343;F1SDN2;A0A5G2RB89;A0A5G2QL38;  
 A0A5G2QPP5;A0A5G2REA8 521 tr|A0A5G2QGJ8|A0A5G2QGJ8\_PIG Uncharacterized protein  
 OS=Sus scrofa OX=9823 GN=HADHB PE=1 SV=1;tr|A0A5G2QGB1|A0A5G2QGB1\_PIG  
 Uncharacterized protein OS=Sus scrofa OX=9823 GN=HADHB PE=1  
 SV=1;tr|A0A287BPJ7|A0A287BPJ7\_PIG Trifunctional enzyme subunit beta, mito  
 47658000 54602000 34523000 28990000 37188000 32384000 53210000 26577000 48566000 47838000  
 24275000 23323000 9 9 9 45,3 45,3 45,3 26,38 0 33,499  
 181320000 66 A0A287BPK4;A0A5G2QM25;A0A287AAV2  
 A0A287BPK4;A0A5G2QM25;A0A287AAV2 522 tr|A0A287BPK4|A0A287BPK4\_PIG  
 Myozenin 3 OS=Sus scrofa OX=9823 GN=MYOZ3 PE=1 SV=1;tr|A0A5G2QM25|A0A5G2QM25\_PIG  
 Myozenin 3 OS=Sus scrofa OX=9823 GN=MYOZ3 PE=1 SV=1;tr|A0A287AAV2|A0A287AAV2\_PIG  
 Myozenin 3 OS=Sus scrofa OX=9823 GN=MYOZ3 PE=1 SV=1  
 9970100 15102000 15950000 19182000 12326000 16823000 18942000 16240000 12878000 10745000  
 15161000 15978000 5 5 5 30,7 30,7 30,7 22,419 0 8,4298  
 497000000 26 I3LQ51;A0A287BPP9 I3LQ51;A0A287BPP9 523 tr|I3LQ51|I3LQ51\_PIG  
 Proteasome 20S subunit beta 1 OS=Sus scrofa OX=9823 GN=PSMB1 PE=1  
 SV=2;tr|A0A287BPP9|A0A287BPP9\_PIG Proteasome subunit beta OS=Sus scrofa OX=9823  
 GN=PSMB1 PE=1 SV=1  
 8207500 9474900 7571100 14945000 8862200 9562100 11277000 11714000 8322700 17165000  
 10625000 11406000 5 5 5 16,7 16,7 16,7 37,656 0 9,4719  
 411580000 30 F1SKL2;A0A287BPT5 F1SKL2;A0A287BPT5 524  
 tr|F1SKL2|F1SKL2\_PIG Sulfurtransferase OS=Sus scrofa OX=9823 GN=TST PE=1  
 SV=2;tr|A0A287BPT5|A0A287BPT5\_PIG Sulfurtransferase OS=Sus scrofa OX=9823 GN=TST PE=1  
 SV=2  
 26489000 18704000 65316000 25645000 31763000 47052000 22486000 21968000 43617000 39594000  
 31383000 84484000 3 3 3 35,3 35,3 35,3 13,759 0 36,765  
 806620000 34 A0A5G2QVR1;A0A287BPW8 A0A5G2QVR1;A0A287BPW8 525  
 tr|A0A5G2QVR1|A0A5G2QVR1\_PIG Complex I-B15 OS=Sus scrofa OX=9823 GN=NDUFB4  
 PE=1 SV=1;tr|A0A287BPW8|A0A287BPW8\_PIG Complex I-B15 OS=Sus scrofa OX=9823  
 GN=NDUFB4 PE=1 SV=1  
 22388000 11923000 13629000 5518800 11393000 6850500 12047000 5019600 4640400 7217200  
 4923000 10000000 9 3 3 36,5 15,4 15,4 27,568 0 40,014  
 309020000 26 A0A5G2QTR9;F1SDR7;A0A287BPX7 A0A5G2QTR9;F1SDR7;A0A287BPX7  
 526 tr|A0A5G2QTR9|A0A5G2QTR9\_PIG Tyrosine 3-monooxygenase/tryptophan 5-  
 monooxygenase activation protein beta OS=Sus scrofa OX=9823 GN=YWHAB PE=1  
 SV=1;tr|F1SDR7|F1SDR7\_PIG Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation  
 protein beta OS=Sus scrofa  
 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 3,8 3,8 3,8  
 69,534 0 4,2996 22513000 2 F1SV06;A0A287BQ02 F1SV06;A0A287BQ02 527  
 tr|F1SV06|F1SV06\_PIG Polyadenylate-binding protein OS=Sus scrofa OX=9823 GN=PABPC4

PE=1 SV=1;tr|A0A287BQ02|A0A287BQ02\_PIG Polyadenylate-binding protein OS=Sus scrofa  
OX=9823 GN=PABPC4 PE=1 SV=2

0 0 0 4097800 0 0 0 0 0 4491500 0 0 3 3 3 26,9  
26,9 26,9 20,688 0 8,2422 31398000 9 A0A287BQ14;A0A5G2QR13;A0A5G2R194

A0A287BQ14;A0A5G2QR13 528 tr|A0A287BQ14|A0A287BQ14\_PIG PDGFA associated  
protein 1 OS=Sus scrofa OX=9823 GN=PDAP1 PE=1 SV=1;tr|A0A5G2QR13|A0A5G2QR13\_PIG  
PDGFA associated protein 1 OS=Sus scrofa OX=9823 GN=PDAP1 PE=1 SV=1

14143000 12443000 10858000 17622000 8333400 10395000 22695000 6011500 0 16412000 8915900  
7757200 5 5 5 16,3 16,3 16,3 37,418 0 60,823 326460000 28

F1RYY6;A0A287BQ72 F1RYY6;A0A287BQ72 529 tr|F1RYY6|F1RYY6\_PIG Transaldolase  
OS=Sus scrofa OX=9823 GN=TALDO1 PE=1 SV=3;tr|A0A287BQ72|A0A287BQ72\_PIG Transaldolase  
OS=Sus scrofa OX=9823 GN=TALDO1 PE=1 SV=1

0 13566000 13925000 17758000 0 19003000 15259000 12274000 17811000 13182000 0 10582000  
2 2 2 19,3 19,3 19,3 13,333 0 4,3744 241850000 6

A1XQU9;A0A287BQP4;A0A5G2Q7Q1;F1SMQ1

A1XQU9;A0A287BQP4;A0A5G2Q7Q1;F1SMQ1 530 sp|A1XQU9|RS20\_PIG 40S ribosomal  
protein S20 OS=Sus scrofa OX=9823 GN=RPS20 PE=1 SV=1;tr|A0A287BQP4|A0A287BQP4\_PIG 40S  
ribosomal protein S20 OS=Sus scrofa OX=9823 GN=RPS20 PE=3  
SV=1;tr|A0A5G2Q7Q1|A0A5G2Q7Q1\_PIG 40S ribosomal protein S20 OS=Sus scrofa OX=98

86915000 63952000 76554000 158810000 94785000 102640000 165000000 109830000  
118160000 91962000 104720000 109890000 22 19 10 41,3 37,1 21,2  
70,097 0 156,61 931390000 269 Q6S4N2;A0A287BQU9;P34930;P34934

Q6S4N2;A0A287BQU9;P34930 531 sp|Q6S4N2|HS71B\_PIG Heat shock 70 kDa protein 1B  
OS=Sus scrofa OX=9823 GN=HSPA1B PE=2 SV=1;tr|A0A287BQU9|A0A287BQU9\_PIG  
Uncharacterized protein OS=Sus scrofa OX=9823 PE=3 SV=2;sp|P34930|HS71A\_PIG Heat shock 70  
kDa protein 1A OS=Sus scrofa OX=9823 GN=HSPA1A

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 5,9 5,9 5,9  
36,606 0 2,891 6778300 2 A0A287BR32;F1S1J9 A0A287BR32;F1S1J9 532

tr|A0A287BR32|A0A287BR32\_PIG Eukaryotic translation initiation factor 3 subunit H OS=Sus  
scrofa OX=9823 GN=EIF3H PE=1 SV=2;tr|F1S1J9|F1S1J9\_PIG Eukaryotic translation initiation factor  
3 subunit H OS=Sus scrofa OX=9823 GN=EIF3H PE=1 SV=2

0 0 0 9302800 0 0 0 0 5471100 6129000 0 0 4 2 2  
8,4 4,9 4,9 46,989 0 3,8276 57691000 9

A0A287BRG6;A0A5G2R4G6;A0A5G2QQ66;I3LRS5;A0A5G2QF01;A0A5G2QBN6;A0A5G2REH  
1;I3LTV1;I3LK50;F1SR94;A0A5G2QN23;A0A480JMD7

A0A287BRG6;A0A5G2R4G6;A0A5G2QQ66;I3LRS5;A0A5G2QF01;A0A5G2QBN6;A0A5G2REH  
1;I3LTV1;I3LK50;F1SR94;A0A5G2QN23;A0A480JMD7 533 tr|A0A287BRG6|A0A287BRG6\_PIG  
Aldehyde dehydrogenase 1 family member A1 OS=Sus scrofa OX=9823 GN=ALDH1A1 PE=1  
SV=1;tr|A0A5G2R4G6|A0A5G2R4G6\_PIG Aldehyde dehydrogenase 1 family member A1 OS=Sus  
scrofa OX=9823 GN=ALDH1A1 PE=1 SV=1;tr|A0A5G2QQ66|A0A5G2QQ66\_PIG

0 8644600 0 10170000 0 0 15553000 0 0 17533000 0 0 3 3  
3 16,3 16,3 16,3 31,583 0 22,265 142270000 16 A0A287BRL8 A0A287BRL8 534

tr|A0A287BRL8|A0A287BRL8\_PIG Myristoylated alanine rich protein kinase C substrate  
OS=Sus scrofa OX=9823 GN=MARCKS PE=1 SV=1

29646000 17795000 16413000 0 10767000 0 0 0 0 0 0 0 4 4  
4 26,3 26,3 26,3 24,195 0 10,71 204570000 12

A0A5G2QK14;F1RHF0;A0A5G2RLD8;A0A287BRT0;A0A5G2QHZ0;A0A5G2QNC6;Q06AB3  
A0A5G2QK14;F1RHF0;A0A5G2RLD8;A0A287BRT0;A0A5G2QHZ0;A0A5G2QNC6 535

tr|A0A5G2QK14|A0A5G2QK14\_PIG Ubiquitin carboxyl-terminal hydrolase OS=Sus scrofa  
OX=9823 GN=UCHL3 PE=1 SV=1;tr|F1RHF0|F1RHF0\_PIG Ubiquitin carboxyl-terminal hydrolase  
OS=Sus scrofa OX=9823 GN=UCHL3 PE=1 SV=4;tr|A0A5G2RLD8|A0A5G2RLD8\_PIG Ubiquitin  
carboxyl-

0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 6,6 6,6 6,6  
47,279 0 4,9709 99602000 2 F1SAI9;A0A287BS88 F1SAI9;A0A287BS88 536

tr|F1SAI9|F1SAI9\_PIG Solute carrier family 37 member 4 OS=Sus scrofa OX=9823 GN=SLC37A4  
PE=1 SV=3;tr|A0A287BS88|A0A287BS88\_PIG Solute carrier family 37 member 4 OS=Sus scrofa  
OX=9823 GN=SLC37A4 PE=1 SV=2

5079800000 4537800000 1716900000 8226200000 3318400000 2166300000 8796000000  
5546900000 3227800000 6484000000 3811800000 1623400000 20 20  
20 91,1 91,1 91,1 26,667 0 323,31 308770000000 1507

D0G7F6;A0A288CFT0;Q29371;A0A286ZRV2 D0G7F6;A0A288CFT0;Q29371;A0A286ZRV2

537 tr|D0G7F6|D0G7F6\_PIG Triosephosphate isomerase OS=Sus scrofa OX=9823 GN=TPI1  
PE=1 SV=1;tr|A0A288CFT0|A0A288CFT0\_PIG Triosephosphate isomerase OS=Sus scrofa OX=9823  
GN=TPI1 PE=1 SV=1;sp|Q29371|TPIS\_PIG Triosephosphate isomerase OS=Sus scrofa OX=9823  
GN=TPI1

0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 17,6 17,6 17,6  
10,485 0,0021716 2,2196 37288000 3 A0A288CFW1;A0A5S6GB93;Q95250

A0A288CFW1;A0A5S6GB93;Q95250 538 tr|A0A288CFW1|A0A288CFW1\_PIG Progesterone  
receptor membrane component 2 OS=Sus scrofa OX=9823 GN=PGRMC2 PE=1  
SV=2;tr|A0A5S6GB93|A0A5S6GB93\_PIG Membrane-associated progesterone receptor component 1  
OS=Sus scrofa OX=9823 GN=PGRMC1 PE=1 SV=1;sp|Q95250|PGRC1\_P

15171000 17544000 51556000 8912700 52442000 43872000 4713300 18733000 28985000 13717000  
48444000 62193000 7 7 7 16,9 16,9 16,9 42,415 0 12,174  
1542800000 44

A0A5G2RC01;A0A5S6HU82;A0A2C9F350;P41367;A0A5G2QVK0;A0A5G2R006

A0A5G2RC01;A0A5S6HU82;A0A2C9F350;P41367;A0A5G2QVK0;A0A5G2R006 539

tr|A0A5G2RC01|A0A5G2RC01\_PIG Medium-chain specific acyl-CoA dehydrogenase,  
mitochondrial OS=Sus scrofa OX=9823 GN=ACADM PE=3  
SV=1;tr|A0A5S6HU82|A0A5S6HU82\_PIG Medium-chain-specific acyl-CoA dehydrogenase,  
mitochondrial OS=Sus scrofa OX=9823 GN=ACADM PE=3 S

0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 13,9 13,9 13,9  
17,14 0 5,3915 43875000 7

A0A5G2QX13;A0A5G2Q7T0;A0A2C9F352;Q8WNV7;A0A5G2QSV2;A0A5G2QWG0;A0A5G2Q

806

A0A5G2QX13;A0A5G2Q7T0;A0A2C9F352;Q8WNV7;A0A5G2QSV2;A0A5G2QWG0;A0A5G2Q

806 540 tr|A0A5G2QX13|A0A5G2QX13\_PIG Dehydrogenase/reductase SDR family member 4  
OS=Sus scrofa OX=9823 GN=DHRS4 PE=1 SV=1;tr|A0A5G2Q7T0|A0A5G2Q7T0\_PIG  
Dehydrogenase/reductase SDR family member 4 OS=Sus scrofa OX=9823 GN=DHRS4 PE=1  
SV=1;tr|A0A2C9F352|A0A2C9F352\_PIG

246790000 113400000 147930000 28719000 94329000 72315000 39541000 37375000 56902000  
55792000 57330000 110070000 10 10 9 45,4 45,4 41,1 22,941 0  
57,969 5626300000 142 Q5S1U1;A0A2C9F366;A0A5S6G3Y8  
Q5S1U1;A0A2C9F366;A0A5S6G3Y8 541 sp|Q5S1U1|HSPB1\_PIG Heat shock protein beta-1  
OS=Sus scrofa OX=9823 GN=HSPB1 PE=2 SV=1;tr|A0A2C9F366|A0A2C9F366\_PIG Heat shock 27  
kDa protein OS=Sus scrofa OX=9823 GN=HSPB1 PE=3 SV=1;tr|A0A5S6G3Y8|A0A5S6G3Y8\_PIG  
Heat shock 27 kDa protein OS=Sus scrofa OX=9

0 0 10255000 0 6255200 16503000 5094300 0 9998000 0 7967900 0  
4 4 4 11,5 11,5 11,5 52,193 0 15,634 125480000 15 A0A2C9F385;P79381  
A0A2C9F385;P79381 542 tr|A0A2C9F385|A0A2C9F385\_PIG Epoxide hydrolase OS=Sus  
scrofa OX=9823 GN=EPHX1 PE=3 SV=1;sp|P79381|HYEP\_PIG Epoxide hydrolase 1 OS=Sus scrofa  
OX=9823 GN=EPHX1 PE=2 SV=1

39715000 51582000 97520000 47065000 67414000 66625000 26647000 63294000 88080000 62816000  
103250000 161260000 6 6 6 34,6 34,6 34,6 22,503 0 38,347  
2436500000 94 A0A5G2QCN5;Q2EN81;A0A2C9F3A3  
A0A5G2QCN5;Q2EN81;A0A2C9F3A3 543 tr|A0A5G2QCN5|A0A5G2QCN5\_PIG ATP  
synthase peripheral stalk subunit OSCP OS=Sus scrofa OX=9823 GN=ATP5PO PE=3  
SV=1;sp|Q2EN81|ATPO\_PIG ATP synthase subunit O, mitochondrial OS=Sus scrofa OX=9823  
GN=ATP5PO PE=1 SV=1;tr|A0A2C9F3A3|A0A2C9F3A3\_PIG ATP synthase p

22729000 0 41794000 31296000 0 21080000 13764000 0 0 10391000 0 37966000  
8 5 5 26,9 22,3 22,3 28,934 0 19,421 419390000 20  
A0A5S6GU87;A0A2C9F3E2;Q75ZZ6;A0A5G2QKD4;A0A5G2RDN5;A0A5G2R687;A0A5S6IDN  
1;A0A5G2RGN3;A0A286ZQY4;A0A5G2Q8N0;I3LS66  
A0A5S6GU87;A0A2C9F3E2;Q75ZZ6;A0A5G2QKD4;A0A5G2RDN5;A0A5G2R687;A0A5S6IDN  
1 544 tr|A0A5S6GU87|A0A5S6GU87\_PIG Troponin T, slow skeletal muscle OS=Sus scrofa  
OX=9823 GN=TNNT1 PE=1 SV=1;tr|A0A2C9F3E2|A0A2C9F3E2\_PIG Troponin T, slow skeletal  
muscle OS=Sus scrofa OX=9823 GN=TNNT1 PE=1 SV=2;sp|Q75ZZ6|TNNT1\_PIG Troponin T, slow  
skeletal musc

11313000 0 5158200 0 0 0 12266000 0 3977200 0 0 0 2 2  
2 1,7 1,7 1,7 144,66 0 4,3652 98030000 10 A0A480EA26;A0A287AVF9;I3LIB5  
A0A480EA26;A0A287AVF9;I3LIB5 545 tr|A0A480EA26|A0A480EA26\_PIG Myopalladin  
isoform a OS=Sus scrofa OX=9823 GN=MYPN PE=4 SV=1;tr|A0A287AVF9|A0A287AVF9\_PIG  
Uncharacterized protein OS=Sus scrofa OX=9823 GN=MYPN PE=4 SV=1;tr|I3LIB5|I3LIB5\_PIG  
Uncharacterized protein OS=Sus scrofa OX=9823 GN=MY

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 2,2 2,2 2,2  
60,675 0,0031679 2,0116 66598000 3 A0A480EEK4 A0A480EEK4 546  
tr|A0A480EEK4|A0A480EEK4\_PIG Katanin p60 ATPase-containing subunit A-like 2 OS=Sus  
scrofa OX=9823 GN=KATNAL2 PE=3 SV=1

8050200 3380600 5292700 13997000 0 3017700 18189000 0 0 16704000 0 3860300  
6 6 6 29 29 29 27,004 0 22,231 190840000 29  
A0A5G2QE76;Q64L94;A0A480F3K2;F1SGM1;A0A5G2QYQ3  
A0A5G2QE76;Q64L94;A0A480F3K2;F1SGM1;A0A5G2QYQ3 547  
tr|A0A5G2QE76|A0A5G2QE76\_PIG Proteasome activator complex subunit 1 OS=Sus scrofa  
OX=9823 GN=PSME1 PE=3 SV=1;sp|Q64L94|PSME1\_PIG Proteasome activator complex subunit 1  
OS=Sus scrofa OX=9823 GN=PSME1 PE=2 SV=1;tr|A0A480F3K2|A0A480F3K2\_PIG Proteasome  
activat  
11081000 17790000 22710000 42196000 17190000 19811000 19266000 47712000 80029000 43679000  
22116000 38461000 4 4 4 33,6 33,6 33,6 14,306 0 15,536  
525160000 30 A0A480JRW3;A0A287AZV7 A0A480JRW3;A0A287AZV7548  
tr|A0A480JRW3|A0A480JRW3\_PIG NADH dehydrogenase [ubiquinone] 1 subunit C2 OS=Sus  
scrofa OX=9823 GN=NDUFC2 PE=1 SV=1;tr|A0A287AZV7|A0A287AZV7\_PIG NADH  
dehydrogenase [ubiquinone] 1 subunit C2 OS=Sus scrofa OX=9823 GN=NDUFC2 PE=1 SV=2  
0 0 25381000 26649000 21019000 22178000 27223000 0 19699000 34878000 0 36433000  
2 2 2 16,5 16,5 16,5 11,719 0,0022447 2,486 440540000 11  
F6Q0K3;A0A5G2QGD4;Q29259;A0A480KM09;A0A286ZVX2  
F6Q0K3;A0A5G2QGD4;Q29259;A0A480KM09;A0A286ZVX2 549 tr|F6Q0K3|F6Q0K3\_PIG  
Complex I-B17 OS=Sus scrofa OX=9823 GN=NDUFB6 PE=1  
SV=1;tr|A0A5G2QGD4|A0A5G2QGD4\_PIG Complex I-B17 OS=Sus scrofa OX=9823 GN=NDUFB6  
PE=1 SV=1;sp|Q29259|NDUB6\_PIG NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit  
6 OS=Sus scrofa  
0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 4,8 4,8 4,8  
76,502 0 4,8547 16217000 2  
A0A5G2QWK2;F1SK65;A0A5G2QE35;A0A480PP98;A0A5G2QYJ4;A0A287AII8  
A0A5G2QWK2;F1SK65;A0A5G2QE35;A0A480PP98;A0A5G2QYJ4;A0A287AII8 550  
tr|A0A5G2QWK2|A0A5G2QWK2\_PIG 1,4-alpha-glucan branching enzyme OS=Sus scrofa  
OX=9823 GN=GBE1 PE=1 SV=1;tr|F1SK65|F1SK65\_PIG 1,4-alpha-glucan branching enzyme OS=Sus  
scrofa OX=9823 GN=GBE1 PE=1 SV=4;tr|A0A5G2QE35|A0A5G2QE35\_PIG 1,4-alpha-glucan  
branching en  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 6,1 6,1 6,1  
23,481 0 4,1526 105370000 9  
A0A5G2RGV9;A0A480PPD4;I3L594;I3LRD5;A0A5G2QQC0;A0A5G2R4B8;A0A5G2QP32  
A0A5G2RGV9;A0A480PPD4;I3L594;I3LRD5;A0A5G2QQC0;A0A5G2R4B8;A0A5G2QP32 551  
tr|A0A5G2RGV9|A0A5G2RGV9\_PIG Eukaryotic translation initiation factor 4H OS=Sus scrofa  
OX=9823 GN=EIF4H PE=1 SV=1;tr|A0A480PPD4|A0A480PPD4\_PIG Eukaryotic translation  
initiation factor 4H OS=Sus scrofa OX=9823 GN=EIF4H PE=1 SV=1;tr|I3L594|I3L594\_PIG Eukaryo  
85618000 53348000 47884000 26403000 52205000 37956000 39416000 39430000 32428000 54068000  
46349000 52544000 12 12 12 31 31 31 52,799 0 38,906  
2535600000 89 A0A480QW05;F1RIS3;A0A5G2RAP2 A0A480QW05;F1RIS3;A0A5G2RAP2  
552 tr|A0A480QW05|A0A480QW05\_PIG Mitsugumin-53 OS=Sus scrofa OX=9823 GN=TRIM72  
PE=1 SV=1;tr|F1RIS3|F1RIS3\_PIG Mitsugumin-53 OS=Sus scrofa OX=9823 GN=TRIM72 PE=1

SV=4;tr|A0A5G2RAP2|A0A5G2RAP2\_PIG Mitsugumin-53 OS=Sus scrofa OX=9823 GN=TRIM72  
PE=1 SV=1  
43424000 19885000 25039000 23515000 16728000 31248000 16823000 33720000 20905000 13206000  
25355000 9279900 24 24 18 30,1 30,1 23,3 101,68 0 117,73  
2511200000 166  
A0A5G2QU26;A0A480REY2;A0A5G2RET9;F1RU49;F1RUT3;A0A5G2R6T7;I3LLY3;A0A287A4  
Q7;F1RI39;A0A287BAZ5;A0A287AA30;A0A287A7I2;A0A287BQV2  
A0A5G2QU26;A0A480REY2;A0A5G2RET9;F1RU49;F1RUT3 553  
tr|A0A5G2QU26|A0A5G2QU26\_PIG Actinin alpha 3 OS=Sus scrofa OX=9823 GN=ACTN3  
PE=1 SV=1;tr|A0A480REY2|A0A480REY2\_PIG Actinin alpha 3 OS=Sus scrofa OX=9823 GN=ACTN3  
PE=1 SV=1;tr|A0A5G2RET9|A0A5G2RET9\_PIG Actinin alpha 3 OS=Sus scrofa OX=9823  
GN=ACTN3 PE=1 SV=  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 2,8 2,8 2,8  
50,698 0 3,8728 8304300 1 F1RSM2;A0A5G2RF93;A0A480SMR6  
F1RSM2;A0A5G2RF93;A0A480SMR6 554 tr|F1RSM2|F1RSM2\_PIG Proteasome 26S subunit,  
non-ATPase 12 OS=Sus scrofa OX=9823 GN=PSMD12 PE=1  
SV=2;tr|A0A5G2RF93|A0A5G2RF93\_PIG Proteasome 26S subunit, non-ATPase 12 OS=Sus scrofa  
OX=9823 GN=PSMD12 PE=1 SV=1;tr|A0A480SMR6|A0A480SMR6\_PIG 26S proteasome no  
18613000 17933000 19400000 13156000 17041000 15509000 24707000 12287000 21587000 17575000  
17015000 18748000 3 3 3 19,5 19,5 19,5 20,551 0 9,386  
527770000 34 A0A480UG54;I3LCX3 A0A480UG54;I3LCX3 555  
tr|A0A480UG54|A0A480UG54\_PIG Dual specificity protein phosphatase OS=Sus scrofa  
OX=9823 GN=DUSP3 PE=1 SV=1;tr|I3LCX3|I3LCX3\_PIG Dual specificity protein phosphatase  
OS=Sus scrofa OX=9823 GN=DUSP3 PE=1 SV=2  
7216000 0 6403400 6814800 0 6651000 6145500 0 0 6609000 6895500 6959800  
4 4 4 17,3 17,3 17,3 34,776 0 13,691 140890000 11  
A0A480VIL3;I3LS60;A0A5G2QRH4 A0A480VIL3;I3LS60;A0A5G2QRH4 556  
tr|A0A480VIL3|A0A480VIL3\_PIG ATP-dependent (S)-NAD(P)H-hydrate dehydratase OS=Sus  
scrofa OX=9823 GN=NAXD PE=1 SV=1;tr|I3LS60|I3LS60\_PIG ATP-dependent (S)-NAD(P)H-  
hydrate dehydratase OS=Sus scrofa OX=9823 GN=NAXD PE=1  
SV=2;tr|A0A5G2QRH4|A0A5G2QRH4\_PIG ATP-d  
1889600000 853690000 1217000000 2720300000 888620000 961170000 2820200000  
485840000 1101000000 2764700000 796750000 791730000 19 12  
2 45,6 27 4,1 47,287 0 277,55 29283000000 625  
A0A480WPU1;I3LK59;A0A287A8S8 A0A480WPU1;I3LK59;A0A287A8S8 557  
tr|A0A480WPU1|A0A480WPU1\_PIG 2-phospho-D-glycerate hydro-lyase OS=Sus scrofa  
OX=9823 GN=ENO1 PE=1 SV=1;tr|I3LK59|I3LK59\_PIG 2-phospho-D-glycerate hydro-lyase OS=Sus  
scrofa OX=9823 GN=ENO1 PE=1 SV=3;tr|A0A287A8S8|A0A287A8S8\_PIG 2-phospho-D-glycerate  
hydro-l  
18920000 0 13324000 22274000 9732300 12248000 21276000 9069500 13824000 27725000 13187000  
13937000 4 4 4 21,2 21,2 21,2 23,518 0 26,791 399810000 16  
A0A480X841;F1RT87;A0A5G2Q9X9;A0A5G2RFW4;A0A286ZZD9;A0A287A2L2;A0A5G2QFY1;  
F1S8J6;A0A5G2Q9L1;A0A5G2RBX5

A0A480X841;F1RT87;A0A5G2Q9X9;A0A5G2RFW4;A0A286ZZD9;A0A287A2L2;A0A5G2QFY1;  
 F1S8J6;A0A5G2Q9L1 558 tr|A0A480X841|A0A480X841\_PIG RAB2A, member RAS oncogene  
 family OS=Sus scrofa OX=9823 GN=RAB2A PE=1 SV=1;tr|F1RT87|F1RT87\_PIG RAB2A, member  
 RAS oncogene family OS=Sus scrofa OX=9823 GN=RAB2A PE=1  
 SV=4;tr|A0A5G2Q9X9|A0A5G2Q9X9\_PIG RAB2A, member RAS oncogene  
 0 0 0 14714000 0 14005000 13142000 0 10535000 15923000 0 10278000  
 4 4 4 13,7 13,7 13,7 38,371 0 9,4151 211020000 10  
 A0A480YV73;F1S3H7;A0A287AI29 A0A480YV73;F1S3H7 559  
 tr|A0A480YV73|A0A480YV73\_PIG 15-oxoprostaglandin 13-reductase OS=Sus scrofa OX=9823  
 GN=PTGR2 PE=1 SV=1;tr|F1S3H7|F1S3H7\_PIG 15-oxoprostaglandin 13-reductase OS=Sus scrofa  
 OX=9823 GN=PTGR2 PE=1 SV=4  
 19919000 39576000 50790000 3835700 41803000 57438000 0 32236000 79514000 4308500 40642000  
 54485000 17 17 17 36,6 36,6 36,6 56,943 0 66,644 2966900000 113  
 A0A481C881;P79303;A0A286ZI08;A0A5G2QMF9 A0A481C881;P79303;A0A286ZI08 560  
 tr|A0A481C881|A0A481C881\_PIG UTP--glucose-1-phosphate uridylyltransferase OS=Sus  
 scrofa OX=9823 GN=UGP2 PE=1 SV=1;sp|P79303|UGPA\_PIG UTP--glucose-1-phosphate  
 uridylyltransferase OS=Sus scrofa OX=9823 GN=UGP2 PE=2 SV=3;tr|A0A286ZI08|A0A286ZI08\_PIG  
 UTP--gluc  
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1,4 1,4 1,4  
 88,416 0,0087549 1,4495 9651000 2  
 A0A5G2R3H5;F1SLU6;A0A5G2Q6L8;A0A5G2QPU0  
 A0A5G2R3H5;F1SLU6;A0A5G2Q6L8;A0A5G2QPU0 561  
 tr|A0A5G2R3H5|A0A5G2R3H5\_PIG Ubiquitin carboxyl-terminal hydrolase OS=Sus scrofa  
 OX=9823 GN=USP5 PE=1 SV=1;tr|F1SLU6|F1SLU6\_PIG Ubiquitin carboxyl-terminal hydrolase  
 OS=Sus scrofa OX=9823 GN=USP5 PE=1 SV=4;tr|A0A5G2Q6L8|A0A5G2Q6L8\_PIG Ubiquitin  
 carboxyl-te  
 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 16,5 16,5 16,5  
 14,844 0,0021763 2,2492 8824200 3  
 A0A5G2Q6V1;A0A5G2QBU2;A0A5G2QTM2;F1SL99  
 A0A5G2Q6V1;A0A5G2QBU2;A0A5G2QTM2;F1SL99 562  
 tr|A0A5G2Q6V1|A0A5G2Q6V1\_PIG Prostaglandin E synthase 3 OS=Sus scrofa OX=9823  
 GN=PTGES3 PE=1 SV=1;tr|A0A5G2QBU2|A0A5G2QBU2\_PIG Prostaglandin E synthase 3 OS=Sus  
 scrofa OX=9823 GN=PTGES3 PE=1 SV=1;tr|A0A5G2QTM2|A0A5G2QTM2\_PIG Prostaglandin E  
 synthase 3 OS=S  
 0 11479000 38727000 15478000 23967000 24376000 13951000 0 21861000 29564000 15654000  
 52710000 4 4 4 32,4 32,4 32,4 16,338 0 10,519 422860000 18  
 A0A5G2Q729;F1S6Q1 A0A5G2Q729;F1S6Q1 563 tr|A0A5G2Q729|A0A5G2Q729\_PIG  
 NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 13 OS=Sus scrofa OX=9823  
 GN=NDUFA13 PE=1 SV=1;tr|F1S6Q1|F1S6Q1\_PIG NADH dehydrogenase [ubiquinone] 1 alpha  
 subcomplex subunit 13 OS=Sus scrofa OX=9823 GN=NDUFA13 PE=1 S  
 10859000 0 11763000 0 0 12945000 0 0 13541000 0 0 43894000 68  
 7 1 35,3 4,7 0,8 223,15 0 100,11 358010000 20  
 Q9TV63;A0A5G2Q7D6;F1SS64;A0A287AZK1 Q9TV63;A0A5G2Q7D6;F1SS64;A0A287AZK1



564 sp|Q9TV63|MYH2\_PIG Myosin-2 OS=Sus scrofa OX=9823 GN=MYH2 PE=2  
SV=1;tr|A0A5G2Q7D6|A0A5G2Q7D6\_PIG Myosin-4 OS=Sus scrofa OX=9823 GN=MYH4 PE=3  
SV=1;tr|F1SS64|F1SS64\_PIG Myosin-4 OS=Sus scrofa OX=9823 GN=MYH4 PE=3  
SV=2;tr|A0A287AZK1|A0A287AZK1\_PIG Myosin-4 OS

23988000 33844000 63557000 41520000 65728000 53966000 24016000 38767000 42792000 39987000  
68780000 96832000 17 17 17 32,3 32,3 32,3 67,423 0 92,707  
4109400000 139 A0A5G2QMG3;A0A5G2Q7D7;Q0QF01;A0A5G2R6Z8  
A0A5G2QMG3;A0A5G2Q7D7;Q0QF01;A0A5G2R6Z8 565  
tr|A0A5G2QMG3|A0A5G2QMG3\_PIG Succinate dehydrogenase [ubiquinone] flavoprotein  
subunit, mitochondrial OS=Sus scrofa OX=9823 GN=SDHA PE=1  
SV=1;tr|A0A5G2Q7D7|A0A5G2Q7D7\_PIG Succinate dehydrogenase [ubiquinone] flavoprotein  
subunit, mitochondrial OS=Sus scrofa

0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 7,1 7,1 7,1  
47,63 0 6,5238 24998000 4  
A0A5G2RA90;A0A5G2R6R2;A0A5G2Q895;A0A5K1UH01  
A0A5G2RA90;A0A5G2R6R2;A0A5G2Q895;A0A5K1UH01 566  
tr|A0A5G2RA90|A0A5G2RA90\_PIG Protein disulfide-isomerase A6 OS=Sus scrofa OX=9823  
GN=PDIA6 PE=1 SV=1;tr|A0A5G2R6R2|A0A5G2R6R2\_PIG Protein disulfide-isomerase A6 OS=Sus  
scrofa OX=9823 GN=PDIA6 PE=1 SV=1;tr|A0A5G2Q895|A0A5G2Q895\_PIG Protein disulfide-  
isomera

6970900 7010800 0 0 0 0 0 0 0 0 0 0 3 3 3 8,8  
8,8 8,8 53,603 0 4,9783 43812000 6  
A0A5G2Q8F9;Q863I2;A0A5S8KP39;A0A5G2Q8B4;A0A480I155  
A0A5G2Q8F9;Q863I2;A0A5S8KP39;A0A5G2Q8B4;A0A480I155 567  
tr|A0A5G2Q8F9|A0A5G2Q8F9\_PIG Non-specific serine/threonine protein kinase OS=Sus  
scrofa OX=9823 GN=OXSR1 PE=4 SV=1;sp|Q863I2|OXSR1\_PIG Serine/threonine-protein kinase  
OSR1 OS=Sus scrofa OX=9823 GN=OXSR1 PE=2 SV=1;tr|A0A5S8KP39|A0A5S8KP39\_PIG Non-  
specific s

10520000 5034000 7568800 13671000 0 22665000 12567000 0 8249300 9960800 4564100  
14194000 12 12 12 8,9 8,9 8,9 163,99 0 32,639 594850000 49  
A0A5G2Q8I9;K7GQ48;F1SLX2;CON\_\_ENSEMBL:ENSBTAP00000024146  
A0A5G2Q8I9;K7GQ48;F1SLX2 568 tr|A0A5G2Q8I9|A0A5G2Q8I9\_PIG Uncharacterized  
protein OS=Sus scrofa OX=9823 GN=A2M PE=1 SV=1;tr|K7GQ48|K7GQ48\_PIG Uncharacterized  
protein OS=Sus scrofa OX=9823 GN=A2M PE=1 SV=3;tr|F1SLX2|F1SLX2\_PIG Uncharacterized  
protein OS=Sus scrofa OX=9823 GN=A2M PE=1 S

0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 3,8 3,8 3,8  
69,683 0,0030612 1,8028 3631300 2  
A0A5G2R4G9;F1SP18;A0A5G2Q976;A0A5G2QVT3  
A0A5G2R4G9;F1SP18;A0A5G2Q976;A0A5G2QVT3 569 tr|A0A5G2R4G9|A0A5G2R4G9\_PIG  
Threonyl-tRNA synthetase OS=Sus scrofa OX=9823 GN=TARS1 PE=1 SV=1;tr|F1SP18|F1SP18\_PIG  
Threonyl-tRNA synthetase OS=Sus scrofa OX=9823 GN=TARS1 PE=1  
SV=4;tr|A0A5G2Q976|A0A5G2Q976\_PIG Threonyl-tRNA synthetase OS=Sus scrofa OX=982

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 3,2 3,2 3,2  
 31,51 0,0031915 2,0575 39467000 2 F1RW98;A0A5G2Q990 F1RW98;A0A5G2Q990  
 570 tr|F1RW98|F1RW98\_PIG Ras suppressor protein 1 OS=Sus scrofa OX=9823 GN=RSU1 PE=1  
 SV=3;tr|A0A5G2Q990|A0A5G2Q990\_PIG Ras suppressor protein 1 OS=Sus scrofa OX=9823  
 GN=RSU1 PE=1 SV=1  
 31597000 26382000 42599000 45970000 28978000 60885000 49107000 23645000 37640000 47987000  
 35697000 74771000 6 6 6 41,4 41,4 41,4 17,176 0 21,895  
 1584500000 55 Q2EN76;A0A5G2Q9S0;A0A287AS29;A0A5G2RK94;A0A5G2QTY2  
 Q2EN76;A0A5G2Q9S0;A0A287AS29 571 sp|Q2EN76|NDKB\_PIG Nucleoside diphosphate  
 kinase B OS=Sus scrofa OX=9823 GN=NME2 PE=2 SV=1;tr|A0A5G2Q9S0|A0A5G2Q9S0\_PIG  
 Nucleoside diphosphate kinase OS=Sus scrofa OX=9823 GN=NME2 PE=1  
 SV=1;tr|A0A287AS29|A0A287AS29\_PIG Nucleoside diphosphate kinase OS=Sus  
 22346000 21178000 18285000 44504000 18200000 18875000 43077000 15811000 15433000 44507000  
 21196000 26054000 14 14 14 32,9 32,9 32,9 56,046 0 63,366  
 1747400000 91 P28839;A0A5G2QA84;A0A5G2QAG3;A0A5G2R3A2  
 P28839;A0A5G2QA84;A0A5G2QAG3;A0A5G2R3A2 572 sp|P28839|AMPL\_PIG Cytosol  
 aminopeptidase OS=Sus scrofa OX=9823 GN=LAP3 PE=1 SV=2;tr|A0A5G2QA84|A0A5G2QA84\_PIG  
 Cysteinylglycine-S-conjugate dipeptidase OS=Sus scrofa OX=9823 GN=LAP3 PE=1  
 SV=1;tr|A0A5G2QAG3|A0A5G2QAG3\_PIG Cysteinylglycine-S-conjugate dipept  
 9749600 8100400 8799800 5817100 7166200 7615000 12769000 8502900 10819000 8912100  
 6474300 5939100 7 7 7 10,2 10,2 10,2 94,859 0 11,864  
 234090000 17 A0A5G2QAB7;F1S166;A0A5G2QDP0;A0A287B0D1  
 A0A5G2QAB7;F1S166;A0A5G2QDP0;A0A287B0D1 573 tr|A0A5G2QAB7|A0A5G2QAB7\_PIG  
 Protein unc-45 homolog B OS=Sus scrofa OX=9823 GN=UNC45B PE=4 SV=1;tr|F1S166|F1S166\_PIG  
 Protein unc-45 homolog B OS=Sus scrofa OX=9823 GN=UNC45B PE=4  
 SV=3;tr|A0A5G2QDP0|A0A5G2QDP0\_PIG Protein unc-45 homolog B OS=Sus scrofa OX=9  
 0 0 0 0 0 0 4155500 0 0 3476300 0 0 2 2 2 13,9  
 13,9 13,9 16,93 0,003096 1,8647 24775000 2 P60662;A0A5S6FSE5;A0A5G2QAD4  
 P60662;A0A5S6FSE5;A0A5G2QAD4 574 sp|P60662|MYL6\_PIG Myosin light polypeptide 6  
 OS=Sus scrofa OX=9823 GN=MYL6 PE=1 SV=2;tr|A0A5S6FSE5|A0A5S6FSE5\_PIG Uncharacterized  
 protein OS=Sus scrofa OX=9823 GN=MYL6B PE=4 SV=1;tr|A0A5G2QAD4|A0A5G2QAD4\_PIG  
 Uncharacterized protein OS=Sus scrofa OX=9823 G  
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 9,5 9,5 9,5  
 13,651 0,0030992 1,8658 0 2 A0A5G2QAJ6;I3LBW5 A0A5G2QAJ6;I3LBW5 575  
 tr|A0A5G2QAJ6|A0A5G2QAJ6\_PIG Peptidyl-prolyl cis-trans isomerase OS=Sus scrofa  
 OX=9823 GN=PIN4 PE=1 SV=1;tr|I3LBW5|I3LBW5\_PIG Peptidyl-prolyl cis-trans isomerase OS=Sus  
 scrofa OX=9823 GN=PIN4 PE=1 SV=1  
 27869000 17441000 17375000 22749000 15674000 16666000 24173000 10987000 14583000 23820000  
 14413000 14458000 5 4 4 22,9 17,2 17,2 22,102 0 6,0195  
 652470000 42  
 A0A5G2RJU1;F2Z5F2;A0A5G2QAT3;F1RFW5;A0A287AGC0;A0A287A3W8;A0A286ZUS1;F1S  
 091;A0A287AXQ6;A0A287B2E5;F2Z5I8 A0A5G2RJU1;F2Z5F2;A0A5G2QAT3 576  
 tr|A0A5G2RJU1|A0A5G2RJU1\_PIG RAB10, member RAS oncogene family OS=Sus scrofa

OX=9823 GN=RAB10 PE=1 SV=1;tr|F2Z5F2|F2Z5F2\_PIG RAB10, member RAS oncogene family  
 OS=Sus scrofa OX=9823 GN=RAB10 PE=1 SV=1;tr|A0A5G2QAT3|A0A5G2QAT3\_PIG RAB10,  
 member RAS oncogene

715540000 166810000 242540000 72047000 220620000 116580000 331380000  
 342730000 192160000 169160000 290950000 60223000 55 55 0  
 46,5 46,5 0 136,3 0 323,31 42242000000 870

A0A5G2QB13;A0A5G2QJR5;F1SID7;A0A287AFL5;A0A5G2RFI9 A0A5G2QB13577

tr|A0A5G2QB13|A0A5G2QB13\_PIG Myosin binding protein C2 OS=Sus scrofa OX=9823  
 GN=MYBPC2 PE=1 SV=1

6192700 7868600 7600400 0 8046600 8904700 0 0 6646600 5574800 7328200 8727000  
 7 7 7 10,9 10,9 10,9 79,891 0 16,824 197420000 26

A0A5G2QPE1;A0A5G2QB32;I3LQD3;P43367 A0A5G2QPE1;A0A5G2QB32;I3LQD3 578

tr|A0A5G2QPE1|A0A5G2QPE1\_PIG Calcium-activated neutral proteinase 2 OS=Sus scrofa  
 OX=9823 GN=CAPN2 PE=1 SV=1;tr|A0A5G2QB32|A0A5G2QB32\_PIG Calcium-activated neutral  
 proteinase 2 OS=Sus scrofa OX=9823 GN=CAPN2 PE=1 SV=1;tr|I3LQD3|I3LQD3\_PIG Calcium-  
 activated

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 3,7 3,7 3,7  
 30,309 0,0095602 1,3632 2138600 3 A0A5G2QB67;I3LT95 A0A5G2QB67;I3LT95

579 tr|A0A5G2QB67|A0A5G2QB67\_PIG Proteasome assembly chaperone 1 OS=Sus scrofa  
 OX=9823 GN=BRWD1 PE=1 SV=1;tr|I3LT95|I3LT95\_PIG Proteasome assembly chaperone 1 OS=Sus  
 scrofa OX=9823 GN=BRWD1 PE=1 SV=2

199160000 0 153200000 0 0 0 0 0 0 0 0 0 7 7  
 7 9,6 9,6 9,6 104,01 0 9,5175 405420000 9

A0A5G2R5V7;F1RYU9;A0A5G2QB74;A0A287AZ09;A0A287AJL0;A0A286ZLU4

A0A5G2R5V7;F1RYU9;A0A5G2QB74;A0A287AZ09;A0A287AJL0;A0A286ZLU4 580

tr|A0A5G2R5V7|A0A5G2R5V7\_PIG USO1 vesicle transport factor OS=Sus scrofa OX=9823  
 GN=USO1 PE=1 SV=1;tr|F1RYU9|F1RYU9\_PIG USO1 vesicle transport factor OS=Sus scrofa  
 OX=9823 GN=USO1 PE=1 SV=3;tr|A0A5G2QB74|A0A5G2QB74\_PIG General vesicular transport  
 factor p1

0 0 0 0 0 0 0 0 0 0 0 1 1 1 4,9 4,9 4,9  
 31,261 0,0030272 1,7416 61001000 2

A0A5G2RF55;F1RR69;A0A5G2QKJ5;A0A5G2QKF6;A0A5G2QBC5

A0A5G2RF55;F1RR69;A0A5G2QKJ5;A0A5G2QKF6;A0A5G2QBC5 581

tr|A0A5G2RF55|A0A5G2RF55\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 GN=SET  
 PE=1 SV=1;tr|F1RR69|F1RR69\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 GN=SET PE=1  
 SV=3;tr|A0A5G2QKJ5|A0A5G2QKJ5\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 GN=SE  
 30783000 33026000 23637000 50240000 27583000 25045000 53464000 32314000 39228000 48126000

25925000 22174000 7 5 5 26,1 20,6 20,6 30,722 0 12,597

110160000 44 K7GLN4;F1SQ01;A0A5G2QBQ4 K7GLN4;F1SQ01;A0A5G2QBQ4 582

tr|K7GLN4|K7GLN4\_PIG Peroxiredoxin 4 OS=Sus scrofa OX=9823 GN=PRDX4 PE=1  
 SV=2;tr|F1SQ01|F1SQ01\_PIG Peroxiredoxin-4 OS=Sus scrofa OX=9823 GN=PRDX4 PE=1  
 SV=1;tr|A0A5G2QBQ4|A0A5G2QBQ4\_PIG Peroxiredoxin 4 OS=Sus scrofa OX=9823 GN=PRDX4  
 PE=1 SV=1

0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 9,3 9,3 9,3  
 14,692 0 3,571 5039800 4 A0A5G2QBU9;A5GHK3 A0A5G2QBU9;A5GHK3  
 583 tr|A0A5G2QBU9|A0A5G2QBU9\_PIG Prefoldin subunit 4 OS=Sus scrofa OX=9823  
 GN=PFDN4 PE=1 SV=1;tr|A5GHK3|A5GHK3\_PIG Prefoldin subunit 4 OS=Sus scrofa OX=9823  
 GN=PFDN4 PE=1 SV=1  
 0 0 0 0 0 0 0 0 0 0 0 0 0 15 1 1 41,9 4,2 4,2  
 42,215 0,003112 1,8943 153210000 2 A0A5G2QBV6 A0A5G2QBV6 584  
 tr|A0A5G2QBV6|A0A5G2QBV6\_PIG Creatine kinase OS=Sus scrofa OX=9823 GN=CKM PE=1  
 SV=1  
 8300900 7522300 8177800 10613000 0 8685600 9605200 6387800 7172500 10266000 7173200  
 8273500 8 8 8 19,1 19,1 19,1 47,567 0 15,427 208420000 19  
 A0A5G2QCI8;I3LR43;F1RNW4;A0A5G2QM19;A0A5G2QMV2;A0A5G2QW46;A0A5G2QQV1;  
 A0A5G2RE96  
 A0A5G2QCI8;I3LR43;F1RNW4;A0A5G2QM19;A0A5G2QMV2;A0A5G2QW46;A0A5G2QQV1;  
 A0A5G2RE96 585 tr|A0A5G2QCI8|A0A5G2QCI8\_PIG Peptidase D OS=Sus scrofa OX=9823  
 GN=PEPD PE=1 SV=1;tr|I3LR43|I3LR43\_PIG Peptidase D OS=Sus scrofa OX=9823 GN=PEPD PE=1  
 SV=2;tr|F1RNW4|F1RNW4\_PIG Peptidase D OS=Sus scrofa OX=9823 GN=PEPD PE=1  
 SV=3;tr|A0A5G2QM19|A0A5G2QM19\_PIG  
 0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 8,8 8,8 8,8  
 25,048 0 3,2736 98226000 5 A0A5G2QCJ7;F1SKK1 A0A5G2QCJ7;F1SKK1 586  
 tr|A0A5G2QCJ7|A0A5G2QCJ7\_PIG Solute carrier family 25 member 20 OS=Sus scrofa OX=9823  
 GN=SLC25A20 PE=3 SV=1;tr|F1SKK1|F1SKK1\_PIG Mitochondrial carnitine/acylcarnitine carrier  
 protein OS=Sus scrofa OX=9823 GN=SLC25A20 PE=3 SV=1  
 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 6,1 6,1 6,1  
 20,292 0,0059055 1,518 15839000 4 A0A5G2R081;Q29561;A0A5G2QCQ6  
 A0A5G2R081;Q29561;A0A5G2QCQ6 587 tr|A0A5G2R081|A0A5G2R081\_PIG Nucleoside-  
 diphosphate kinase OS=Sus scrofa OX=9823 GN=CMPK1 PE=1 SV=1;sp|Q29561|KCY\_PIG UMP-  
 CMP kinase OS=Sus scrofa OX=9823 GN=CMPK1 PE=1 SV=1;tr|A0A5G2QCQ6|A0A5G2QCQ6\_PIG  
 Nucleoside-diphosphate kinase OS=Sus scrofa OX=9823 G  
 0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 11,1 11,1 11,1  
 25,496 0 5,9993 28117000 4 F1SRV4;A0A5G2QCY7;A0A5G2RLM8;A0A5G2Q9E2  
 F1SRV4;A0A5G2QCY7;A0A5G2RLM8;A0A5G2Q9E2 588 tr|F1SRV4|F1SRV4\_PIG  
 Glutathione S-transferase kappa OS=Sus scrofa OX=9823 GN=GSTK1 PE=1  
 SV=1;tr|A0A5G2QCY7|A0A5G2QCY7\_PIG DSBA domain-containing protein OS=Sus scrofa  
 OX=9823 GN=GSTK1 PE=1 SV=1;tr|A0A5G2RLM8|A0A5G2RLM8\_PIG DSBA domain-containing  
 protein O  
 12399000 5431000 4470600 0 0 0 6993000 0 0 6632500 0 0 8  
 3 3 16,7 6,4 6,4 56,479 0 5,8694 117080000 3  
 A0A5G2QD35;K7GMY6;A0A480QFW6;A0A5G2R8A6;F1SU57;A0A287B026;F1RMA9;F1RMA8;  
 A0A481CE02  
 A0A5G2QD35;K7GMY6;A0A480QFW6;A0A5G2R8A6;F1SU57;A0A287B026;F1RMA9;F1RMA8;  
 A0A481CE02 589 tr|A0A5G2QD35|A0A5G2QD35\_PIG Serine/threonine-protein phosphatase  
 OS=Sus scrofa OX=9823 GN=PPP3CB PE=1 SV=1;tr|K7GMY6|K7GMY6\_PIG Serine/threonine-

protein phosphatase OS=Sus scrofa OX=9823 GN=PPP3CB PE=1  
 SV=2;tr|A0A480QFW6|A0A480QFW6\_PIG Serine/threonine-pr  
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 7,8 7,8 7,8  
 26,933 0,0022422 2,4809 3994500 1 F1SLA7;A0A5G2QD86 F1SLA7;A0A5G2QD86  
 590 tr|F1SLA7|F1SLA7\_PIG Signal recognition particle receptor subunit beta OS=Sus scrofa  
 OX=9823 GN=SRPRB PE=1 SV=4;tr|A0A5G2QD86|A0A5G2QD86\_PIG Signal recognition particle  
 receptor subunit beta OS=Sus scrofa OX=9823 GN=SRPRB PE=1 SV=1  
 159950000 9306100 0 0 0 0 0 0 0 0 0 0 6 5 5 12,6  
 11 11 50,186 0 12,732 67423000 7 A0A5G2QE62;P02543;A0A5S6H025  
 A0A5G2QE62;P02543;A0A5S6H025 591 tr|A0A5G2QE62|A0A5G2QE62\_PIG Vimentin  
 OS=Sus scrofa OX=9823 GN=VIM PE=1 SV=1;sp|P02543|VIME\_PIG Vimentin OS=Sus scrofa  
 OX=9823 GN=VIM PE=1 SV=2;tr|A0A5S6H025|A0A5S6H025\_PIG Vimentin OS=Sus scrofa OX=9823  
 GN=VIM PE=1 SV=1  
 37755000 18353000 17156000 33350000 19303000 13965000 40292000 0 14005000 37165000 14495000  
 11959000 6 6 2 27,2 27,2 6,7 20,037 0 12,126 663620000 31  
 A0A5G2RBP9;A0A5G2QE74;Q52NJ1;A0A5G2R7B1;A0A287BGV3  
 A0A5G2RBP9;A0A5G2QE74;Q52NJ1;A0A5G2R7B1 592 tr|A0A5G2RBP9|A0A5G2RBP9\_PIG  
 Uncharacterized protein OS=Sus scrofa OX=9823 GN=RAB11B PE=1  
 SV=1;tr|A0A5G2QE74|A0A5G2QE74\_PIG Ras-related protein Rab-11A OS=Sus scrofa OX=9823  
 GN=RAB11A PE=1 SV=1;sp|Q52NJ1|RB11A\_PIG Ras-related protein Rab-11A OS=Sus scrofa  
 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 12 12 12  
 21,058 0,0087209 1,4283 4077300 2  
 A0A5G2QEC7;F1RZ28;A0A5G2QG45;A0A5G2QAN6  
 A0A5G2QEC7;F1RZ28;A0A5G2QG45;A0A5G2QAN6 593  
 tr|A0A5G2QEC7|A0A5G2QEC7\_PIG S10\_pectin domain-containing protein OS=Sus scrofa  
 OX=9823 GN=NUDT3 PE=1 SV=1;tr|F1RZ28|F1RZ28\_PIG S10\_pectin domain-containing protein  
 OS=Sus scrofa OX=9823 GN=NUDT3 PE=1 SV=3;tr|A0A5G2QG45|A0A5G2QG45\_PIG Nudix  
 hydrolase dom  
 9206900 16165000 13890000 5562300 14947000 10734000 1923500 16462000 13745000 5862500  
 14088000 12460000 15 15 15 19,9 19,9 19,9 96,823 0 35,715  
 839370000 73 A0A5G2RND7;F1RWJ6;A0A5G2QES1;A0A5G2R745  
 A0A5G2RND7;F1RWJ6;A0A5G2QES1;A0A5G2R745 594  
 tr|A0A5G2RND7|A0A5G2RND7\_PIG Aminopeptidase OS=Sus scrofa OX=9823 GN=NPEPPS  
 PE=1 SV=1;tr|F1RWJ6|F1RWJ6\_PIG Aminopeptidase OS=Sus scrofa OX=9823 GN=NPEPPS PE=1  
 SV=3;tr|A0A5G2QES1|A0A5G2QES1\_PIG Aminopeptidase OS=Sus scrofa OX=9823 GN=NPEPPS  
 PE=1 SV=1;tr|A0A  
 5716700 0 0 5489100 0 0 9431200 0 0 6733700 0 0 4 4  
 4 17,5 17,5 17,5 25,918 0 6,3443 72940000 9  
 A0A5G2QF42;Q863Z0;A0A5G2QKZ5;F1SGM3;A0A5G2QTP4  
 A0A5G2QF42;Q863Z0;A0A5G2QKZ5;F1SGM3;A0A5G2QTP4 595  
 tr|A0A5G2QF42|A0A5G2QF42\_PIG Proteasome activator complex subunit 2 OS=Sus scrofa  
 OX=9823 GN=PSME2 PE=3 SV=1;sp|Q863Z0|PSME2\_PIG Proteasome activator complex subunit 2

OS=Sus scrofa OX=9823 GN=PSME2 PE=2 SV=3;tr|A0A5G2QKZ5|A0A5G2QKZ5\_PIG Proteasome activat

229190000 216700000 505700000 396680000 415600000 460830000 332970000  
263610000 327140000 451110000 403160000 808790000 15 15  
15 43,4 43,4 43,4 36,454 0 85,724 25291000000 340

P11708;A0A5G2QPX2;A0A5G2QFC2;A0A5S8KKT9;A0A5G2QP21;A0A5G2QP84

P11708;A0A5G2QPX2;A0A5G2QFC2;A0A5S8KKT9;A0A5G2QP21;A0A5G2QP84596

sp|P11708|MDHC\_PIG Malate dehydrogenase, cytoplasmic OS=Sus scrofa OX=9823  
GN=MDH1 PE=1 SV=4;tr|A0A5G2QPX2|A0A5G2QPX2\_PIG Malate dehydrogenase OS=Sus scrofa  
OX=9823 GN=MDH1 PE=1 SV=1;tr|A0A5G2QFC2|A0A5G2QFC2\_PIG Malate dehydrogenase  
OS=Sus scrofa OX=9823 G

51194000 32025000 31452000 62809000 34624000 41608000 77234000 28384000 32204000 58413000

34809000 37841000 4 4 2 23,1 23,1 11,2 16,146 0 10,472

1226200000 49

A0A5G2R7H3;A0A5G2QFJ7;I3LFW6;A0A5G2QXY1;A0A5G2QIZ7;A0A5G2QPC7;A0A5G2RJK  
2;A0A287BSL7

A0A5G2R7H3;A0A5G2QFJ7;I3LFW6;A0A5G2QXY1;A0A5G2QIZ7;A0A5G2QPC7;A0A5G2RJK  
2;A0A287BSL7 597 tr|A0A5G2R7H3|A0A5G2R7H3\_PIG Ubiquitin conjugating enzyme E2 V1  
OS=Sus scrofa OX=9823 GN=UBE2V1 PE=1 SV=1;tr|A0A5G2QFJ7|A0A5G2QFJ7\_PIG Ubiquitin  
conjugating enzyme E2 V1 OS=Sus scrofa OX=9823 GN=UBE2V1 PE=1 SV=1;tr|I3LFW6|I3LFW6\_PIG  
Ubiquitin conjugating e

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 6,4 6,4 6,4

19,166 0 3,4164 11743000 1 A0A5G2QFL2;A0A5G2QI52 A0A5G2QFL2;A0A5G2QI52

598 tr|A0A5G2QFL2|A0A5G2QFL2\_PIG Calcineurin like phosphoesterase domain containing  
1 OS=Sus scrofa OX=9823 GN=CPPED1 PE=1 SV=1;tr|A0A5G2QI52|A0A5G2QI52\_PIG Calcineurin-  
like phosphoesterase domain-containing protein 1 OS=Sus scrofa OX=9823 GN=CPPED1 PE=1 SV=1

0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 15,3 15,3 15,3

27,06 0 5,5295 66881000 11 F1RHJ2;A0A5G2QHZ3;A0A5G2QFP2

F1RHJ2;A0A5G2QHZ3;A0A5G2QFP2599 tr|F1RHJ2|F1RHJ2\_PIG Heparin binding growth  
factor OS=Sus scrofa OX=9823 GN=HDGF PE=1 SV=2;tr|A0A5G2QHZ3|A0A5G2QHZ3\_PIG  
Heparin binding growth factor OS=Sus scrofa OX=9823 GN=HDGF PE=1  
SV=1;tr|A0A5G2QFP2|A0A5G2QFP2\_PIG Heparin binding growth factor OS=Sus

0 0 0 0 0 8924300 0 0 8163800 0 0 0 2 2 2 19,2

19,2 19,2 14,431 0,0021954 2,3328 67600000 6 A0A5G2QFP8;P67985;A0A5G2QW71

A0A5G2QFP8;P67985;A0A5G2QW71 600 tr|A0A5G2QFP8|A0A5G2QFP8\_PIG

Isoprenylcysteine carboxyl methyltransferase OS=Sus scrofa OX=9823 GN=ICMT PE=1  
SV=1;sp|P67985|RL22\_PIG 60S ribosomal protein L22 OS=Sus scrofa OX=9823 GN=RPL22 PE=1  
SV=2;tr|A0A5G2QW71|A0A5G2QW71\_PIG Protein-S-isoprenylcysteine

5166600 8747700 4929200 0 0 0 0 0 0 0 0 0 8 8 8

7,4 7,4 7,4 134,94 0 10,491 76993000 12 F1SQ89;A0A5G2QG48;A0A5G2QRG1

F1SQ89;A0A5G2QG48 601 tr|F1SQ89|F1SQ89\_PIG TIP120 domain-containing protein OS=Sus  
scrofa OX=9823 GN=CAND2 PE=1 SV=1;tr|A0A5G2QG48|A0A5G2QG48\_PIG TIP120 domain-  
containing protein OS=Sus scrofa OX=9823 GN=CAND2 PE=1 SV=1

0 0 2555100 4368400 2507200 3329200 8915100 0 0 4225100 0 0  
 3 3 3 14,6 14,6 14,6 21,269 0 3,899 66654000 5  
 A0A5G2QG77;A0A5G2R457;F1S710 A0A5G2QG77;A0A5G2R457;F1S710 602  
 tr|A0A5G2QG77|A0A5G2QG77\_PIG Calcyclin-binding protein OS=Sus scrofa OX=9823  
 GN=CACYBP PE=1 SV=1;tr|A0A5G2R457|A0A5G2R457\_PIG Calcyclin-binding protein OS=Sus  
 scrofa OX=9823 GN=CACYBP PE=1 SV=1;tr|F1S710|F1S710\_PIG Calcyclin-binding protein OS=Sus  
 scrofa O  
 0 7297100 4594800 0 4549700 0 0 0 4996800 0 0 0 14 3  
 3 19,9 4 4 100,48 0 5,4732 70215000 9  
 A0A5G2QG93;A0A5G2QLD6;D2WKD6;A0A5G2QZU7;F1SAX3;A0A5G2QRQ1;P05024;A0A5G  
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 2R8S7;I3LT88 603 tr|A0A5G2QG93|A0A5G2QG93\_PIG Sodium/potassium-transporting ATPase  
 subunit alpha OS=Sus scrofa OX=9823 GN=ATP1A1 PE=1  
 SV=1;tr|A0A5G2QLD6|A0A5G2QLD6\_PIG Sodium/potassium-transporting ATPase subunit alpha  
 OS=Sus scrofa OX=9823 GN=ATP1A1 PE=1 SV=1;tr|D2WKD6|D2  
 34633000 27016000 53015000 62126000 61339000 47044000 50391000 32928000 45869000 72452000  
 59714000 74821000 11 11 11 32,7 32,7 32,7 41,61 0 83,351  
 3535500000 151 A0A5G2QGS5;I3LP02;A0A286ZXW1;A0A5G2R766  
 A0A5G2QGS5;I3LP02;A0A286ZXW1 604 tr|A0A5G2QGS5|A0A5G2QGS5\_PIG Acetyl-CoA  
 acetyltransferase 1 OS=Sus scrofa OX=9823 GN=ACAT1 PE=1 SV=1;tr|I3LP02|I3LP02\_PIG Acetyl-  
 CoA acetyltransferase 1 OS=Sus scrofa OX=9823 GN=ACAT1 PE=1  
 SV=2;tr|A0A286ZXW1|A0A286ZXW1\_PIG Acetyl-CoA acetyltransferase 1 OS  
 14713000 19319000 12395000 14088000 12296000 12008000 23952000 14322000 18432000 16975000  
 13521000 9108600 12 12 12 17,9 17,9 17,9 93,763 0 68,898  
 800370000 85  
 A0A5G2QUZ9;P43368;A0A5G2QH29;A0A5G2R959;A0A5G2QPB9;A0A5G2QTE5;F1SI23;A0A2  
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 A0A5G2QUZ9;P43368;A0A5G2QH29;A0A5G2R959;A0A5G2QPB9;A0A5G2QTE5;F1SI23;A0A2  
 87BSN0;F1SI20 605 tr|A0A5G2QUZ9|A0A5G2QUZ9\_PIG Calpain-3 OS=Sus scrofa OX=9823  
 GN=CAPN3 PE=3 SV=1;sp|P43368|CAN3\_PIG Calpain-3 OS=Sus scrofa OX=9823 GN=CAPN3 PE=2  
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 SV=1;tr|A0A5G2R959|A0A5G2R959\_P  
 4004600 25856000 33015000 26223000 23975000 34993000 16331000 29613000 52075000 25904000  
 29415000 38863000 6 6 6 20,8 20,8 20,8 30,731 0 42,848  
 936920000 51 F1SE26;A0A5G2QH97;Q29380;F1SE27  
 F1SE26;A0A5G2QH97;Q29380;F1SE27 606 tr|F1SE26|F1SE26\_PIG Voltage-dependent  
 anion-selective channel protein 3 OS=Sus scrofa OX=9823 GN=VDAC3 PE=1  
 SV=3;tr|A0A5G2QH97|A0A5G2QH97\_PIG Voltage-dependent anion-selective channel protein 3  
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 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 6,2 6,2 6,2  
 18,477 0,0011287 2,5473 4915700 1  
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 tr|A0A5G2QHN7|A0A5G2QHN7\_PIG F-actin-capping protein subunit alpha OS=Sus scrofa  
 OX=9823 GN=CAPZA2 PE=1 SV=1;tr|A0A5S8KXS2|A0A5S8KXS2\_PIG F-actin-capping protein  
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 0 10321000 9365900 5434100 6390700 7133300 4679300 0 6403200 3532000 4491300  
 7670700 4 4 4 7,8 7,8 7,8 53,234 0 5,3571 179270000 20  
 A0A5G2R5Y6;A0A5G2QHR6;I3L9J4;A0A5G2R446;F1RIU3;I3LT97;Q29236  
 A0A5G2R5Y6;A0A5G2QHR6;I3L9J4;A0A5G2R446;F1RIU3;I3LT97 608  
 tr|A0A5G2R5Y6|A0A5G2R5Y6\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
 GN=CCT6A PE=1 SV=1;tr|A0A5G2QHR6|A0A5G2QHR6\_PIG Uncharacterized protein OS=Sus  
 scrofa OX=9823 GN=CCT6A PE=1 SV=1;tr|I3L9J4|I3L9J4\_PIG Uncharacterized protein OS=Sus  
 scrofa OX=9823 G  
 19418000 11866000 10920000 27805000 11434000 14575000 26514000 10663000 8453900 22678000  
 9204600 12585000 7 7 7 25,3 25,3 25,3 30,224 0 15,506  
 696490000 41 A0A5G2QI19;F2Z5L7;A0A5G2QQW4 A0A5G2QI19;F2Z5L7;A0A5G2QQW4  
 609 tr|A0A5G2QI19|A0A5G2QI19\_PIG Proteasome subunit alpha type OS=Sus scrofa  
 OX=9823 GN=PSMA1 PE=1 SV=1;tr|F2Z5L7|F2Z5L7\_PIG Proteasome subunit alpha type OS=Sus  
 scrofa OX=9823 GN=PSMA1 PE=1 SV=1;tr|A0A5G2QQW4|A0A5G2QQW4\_PIG Proteasome subunit  
 alpha type OS=Su  
 0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 4 4 4  
 50,835 0 3,7709 39561000 2 A0A5G2R2E3;A0A5G2QIC3;I3LRU5;I3LIN5;I3L945  
 A0A5G2R2E3;A0A5G2QIC3;I3LRU5;I3LIN5;I3L945 610 tr|A0A5G2R2E3|A0A5G2R2E3\_PIG  
 Ubiquitin carboxyl-terminal hydrolase OS=Sus scrofa OX=9823 GN=USP14 PE=1  
 SV=1;tr|A0A5G2QIC3|A0A5G2QIC3\_PIG Ubiquitin carboxyl-terminal hydrolase OS=Sus scrofa  
 OX=9823 GN=USP14 PE=1 SV=1;tr|I3LRU5|I3LRU5\_PIG Ubiquitin carboxyl-  
 45463000 31740000 30993000 36358000 14736000 34423000 43971000 21365000 17147000 47088000  
 20782000 30932000 4 4 4 32,1 32,1 32,1 15,13 0 37,399  
 1096700000 38 A0A5S6GPG9;A0A5G2QIE9;P50390;A0A5G2R5I8  
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 Transthyretin OS=Sus scrofa OX=9823 GN=TTR PE=3 SV=1;tr|A0A5G2QIE9|A0A5G2QIE9\_PIG  
 Transthyretin OS=Sus scrofa OX=9823 GN=TTR PE=3 SV=1;sp|P50390|TTHY\_PIG Transthyretin  
 OS=Sus scrofa OX=9823 GN=TTR PE=1 SV=1;tr|A0A5G2R5I8|A0A5G2  
 0 0 0 0 0 0 0 0 0 0 0 0 0 4 3 2 7,1 5,4 4,1  
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 A0A5G2RHH2;A0A5G2QIL8;F1RQR4;A0A287A229 612  
 tr|A0A5G2RHH2|A0A5G2RHH2\_PIG EH domain containing 1 OS=Sus scrofa OX=9823  
 GN=EHD1 PE=1 SV=1;tr|A0A5G2QIL8|A0A5G2QIL8\_PIG EH domain containing 1 OS=Sus scrofa  
 OX=9823 GN=EHD1 PE=1 SV=1;tr|F1RQR4|F1RQR4\_PIG EH domain containing 1 OS=Sus scrofa  
 OX=9823 GN=EHD  
 53220000 29350000 67514000 89289000 52721000 62843000 56971000 31932000 44053000 82511000  
 48405000 101630000 10 10 10 26,4 26,4 26,4 46,402 0 87,063



401350000 130 A0A5S6FV10;A0A5G2QYJ3;A0A5G2QIZ1;Q9N0F1;A0A5G2QV56  
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Dihydrolipoyllysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase  
complex, mitochondrial OS=Sus scrofa OX=9823 GN=DLST PE=3  
SV=1;tr|A0A5G2QYJ3|A0A5G2QYJ3\_PIG Dihydrolipoyllysine-residue succinyltransferase  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 9,8 9,8 9,8  
10,999 0,0031381 1,9505 33365000 4  
F2Z5P1;A0A5G2RBH4;B1PEY3;A0A5G2R318;A0A5G2QJ24;A0A5G2R9I5  
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tr|F2Z5P1|F2Z5P1\_PIG Histone H2A OS=Sus scrofa OX=9823 GN=H2AZ2 PE=3  
SV=3;tr|A0A5G2RBH4|A0A5G2RBH4\_PIG Histone H2A OS=Sus scrofa OX=9823 GN=H2AZ2 PE=3  
SV=1;tr|B1PEY3|B1PEY3\_PIG Histone H2A OS=Sus scrofa OX=9823 GN=H2A.Z PE=2  
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4333400 0 3633000 9766500 0 3652800 8516600 0 4145600 7495500 0 4669600  
4 4 4 27,8 27,8 27,8 20,901 0 8,9103 108060000 13  
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UG2615 tr|A0A5G2QWD0|A0A5G2QWD0\_PIG Ras-related protein Rab-18 OS=Sus scrofa  
OX=9823 GN=RAB18 PE=1 SV=1;tr|A0A5G2QJ69|A0A5G2QJ69\_PIG RAB18, member RAS oncogene  
family OS=Sus scrofa OX=9823 GN=RAB18 PE=1 SV=1;tr|A0A5G2QW88|A0A5G2QW88\_PIG RAB18,  
member RAS oncogene  
0 0 0 0 0 0 0 0 0 0 0 0 4 4 4 2,7 2,7 2,7  
178,31 0 5,7913 24565000 6  
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VX4 A0A5G2QME3;A0A5G2RG14;I3LTB8;A0A5G2R5F3;F1SBS4;A0A5G2QJA9;P01025 616  
tr|A0A5G2QME3|A0A5G2QME3\_PIG C3-beta-c OS=Sus scrofa OX=9823 GN=C3 PE=1  
SV=1;tr|A0A5G2RG14|A0A5G2RG14\_PIG C3-beta-c OS=Sus scrofa OX=9823 GN=C3 PE=1  
SV=1;tr|I3LTB8|I3LTB8\_PIG C3-beta-c OS=Sus scrofa OX=9823 GN=C3 PE=1  
SV=2;tr|A0A5G2R5F3|A0A5G2R5F3\_PIG C3-b  
56531000 43602000 47027000 62940000 47830000 49186000 83479000 43658000 43842000 90622000  
42894000 43141000 7 7 7 35,7 35,7 35,7 24,646 0 38,111  
1847700000 77 P80895;A0A5G2QK30;J9JIK8;A0A5G2QND0  
P80895;A0A5G2QK30;J9JIK8;A0A5G2QND0 618 sp|P80895|PIMT\_PIG Protein-L-  
isoaspartate(D-aspartate) O-methyltransferase OS=Sus scrofa OX=9823 GN=PCMT1 PE=1  
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scrofa OX=9823 GN=PCMT1 PE=3 SV=1;tr|J9JIK8|J9JIK8\_PIG Protei  
20065000 33383000 44625000 14139000 43872000 30429000 19434000 46131000 75850000 29386000  
27625000 48854000 11 11 11 17,7 17,7 17,7 68,251 0 27,109  
1833000000 80  
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0 619 tr|A0A5G2QK83|A0A5G2QK83\_PIG Acetyltransferase component of pyruvate dehydrogenase complex OS=Sus scrofa OX=9823 GN=DLAT PE=1 SV=1;tr|A0A5G2QLQ1|A0A5G2QLQ1\_PIG Acetyltransferase component of pyruvate dehydrogenase complex OS=Sus scrofa OX=9823 GN=DLAT PE=1

0 0 6802400 7857800 0 9653100 9560900 0 6325500 8784800 0 6571600  
4 4 4 16,6 16,6 16,6 30,633 0 5,8803 141580000 17  
F1SUE3;A0A5G2QTT3;A0A5G2QMG2;A0A5G2QKC9;A0A5G2QU23  
F1SUE3;A0A5G2QTT3;A0A5G2QMG2;A0A5G2QKC9;A0A5G2QU23 620  
tr|F1SUE3|F1SUE3\_PIG Inorganic diphosphatase OS=Sus scrofa OX=9823 GN=PPA1 PE=1 SV=3;tr|A0A5G2QTT3|A0A5G2QTT3\_PIG Inorganic diphosphatase OS=Sus scrofa OX=9823 GN=PPA1 PE=1 SV=1;tr|A0A5G2QMG2|A0A5G2QMG2\_PIG Inorganic diphosphatase OS=Sus scrofa OX=9823 GN=

58139000 52776000 69421000 136740000 92713000 98401000 90950000 69196000 90171000  
105300000 93692000 117460000 6 6 6 23,8 23,8 23,8 28,466 0  
17,269 2979100000 89 A0A5G2QKD9;F1S418 A0A5G2QKD9;F1S418 621  
tr|A0A5G2QKD9|A0A5G2QKD9\_PIG Peroxiredoxin 3 OS=Sus scrofa OX=9823 GN=PRDX3 PE=1 SV=1;tr|F1S418|F1S418\_PIG Peroxiredoxin 3 OS=Sus scrofa OX=9823 GN=PRDX3 PE=1 SV=1

0 0 7986400 8229000 8954900 8694100 7829900 0 8853200 12111000 0 0  
3 3 3 16,7 16,7 16,7 19,339 0 3,9585 139280000 8  
A0A5G2QKN3;A0A5G2RHC5;A0A5K1UWY1;K7GQV5;A0A5G2R9S6;A0A5G2R0R7;F1S2N0  
A0A5G2QKN3;A0A5G2RHC5;A0A5K1UWY1;K7GQV5;A0A5G2R9S6;A0A5G2R0R7;F1S2N0  
622 tr|A0A5G2QKN3|A0A5G2QKN3\_PIG Glutathione S-transferase zeta 1 OS=Sus scrofa OX=9823 GN=GSTZ1 PE=1 SV=1;tr|A0A5G2RHC5|A0A5G2RHC5\_PIG Maleylacetoacetate isomerase OS=Sus scrofa OX=9823 GN=GSTZ1 PE=1 SV=1;tr|A0A5K1UWY1|A0A5K1UWY1\_PIG Maleylacetoacetate isomer

21207000 10993000 8495900 11521000 10535000 9057300 10157000 0 0 6652100 0 9694300  
4 4 4 13,5 13,5 13,5 29,579 0 5,2342 223630000 8  
A0A5G2QKS9;F1RRY2;I3LUP6 A0A5G2QKS9;F1RRY2;I3LUP6 623  
tr|A0A5G2QKS9|A0A5G2QKS9\_PIG Nucleophosmin OS=Sus scrofa OX=9823 GN=NPM1 PE=1 SV=1;tr|F1RRY2|F1RRY2\_PIG Nucleoplasmin domain-containing protein OS=Sus scrofa OX=9823 GN=NPM1 PE=1 SV=4;tr|I3LUP6|I3LUP6\_PIG Nucleophosmin OS=Sus scrofa OX=9823 GN=NPM1 PE=1 SV

0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 4,3 4,3 4,3  
46,153 0,0011534 2,7627 26225000 3  
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A0A5G2QKT7;A0A5K1VGL1;F1RUJ0;A0A5G2R676;A0A5G2QDC7 624  
tr|A0A5G2QKT7|A0A5G2QKT7\_PIG Adenylyl cyclase-associated protein OS=Sus scrofa OX=9823 GN=CAP2 PE=1 SV=1;tr|A0A5K1VGL1|A0A5K1VGL1\_PIG Adenylyl cyclase-associated protein OS=Sus scrofa OX=9823 GN=CAP2 PE=1 SV=1;tr|F1RUJ0|F1RUJ0\_PIG Adenylyl cyclase-associated

22516000 11453000 15423000 5009300 19350000 8053700 13582000 0 9025400 7615300 7010600  
20361000 4 4 0 20,7 20,7 0 37,106 0 16,044 253090000 33

A0A5G2QKX2 A0A5G2QKX2 626 tr|A0A5G2QKX2|A0A5G2QKX2\_PIG Ankyrin repeat domain 2 OS=Sus scrofa OX=9823 GN=ANKRD2 PE=1 SV=1  
15502000 17799000 12499000 21216000 11604000 17149000 26031000 11579000 15278000 13525000  
18211000 15578000 6 6 6 19,5 19,5 19,5 29,483 0 6,4053  
520860000 25 A0A5G2R1I2;A0A5G2QL81;A0A5G2QYN2;A0A5G2QCU1;A0A287BIV4  
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tr|A0A5G2R1I2|A0A5G2R1I2\_PIG Proteasome subunit alpha type OS=Sus scrofa OX=9823  
GN=PSMA4 PE=1 SV=1;tr|A0A5G2QL81|A0A5G2QL81\_PIG Proteasome subunit alpha type OS=Sus  
scrofa OX=9823 GN=PSMA4 PE=1 SV=1;tr|A0A5G2QYN2|A0A5G2QYN2\_PIG Proteasome subunit  
beta OS=  
0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 42,3 42,3 42,3  
12,504 0 28,125 72453000 9 F2Z553;A0A5G2QLD8;P61220  
F2Z553;A0A5G2QLD8;P61220 628 tr|F2Z553|F2Z553\_PIG Eukaryotic translation initiation  
factor 1 OS=Sus scrofa OX=9823 GN=EIF1 PE=3 SV=2;tr|A0A5G2QLD8|A0A5G2QLD8\_PIG  
Eukaryotic translation initiation factor 1 OS=Sus scrofa OX=9823 GN=EIF1 PE=1  
SV=1;sp|P61220|EIF1B\_PIG Eukaryotic translati  
0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 9,5 9,5 9,5  
21,29 0,0021882 2,291 29426000 3 A0A5G2QLU1;P27917;A0A5S6HRA3  
A0A5G2QLU1;P27917;A0A5S6HRA3 629 tr|A0A5G2QLU1|A0A5G2QLU1\_PIG  
Apolipoprotein C-III OS=Sus scrofa OX=9823 GN=APOC3 PE=1 SV=1;sp|P27917|APOC3\_PIG  
Apolipoprotein C-III OS=Sus scrofa OX=9823 GN=APOC3 PE=1  
SV=2;tr|A0A5S6HRA3|A0A5S6HRA3\_PIG Apolipoprotein C-III OS=Sus scrofa OX=9823  
GN=APOC3 PE  
29808000 0 40066000 3106100 15991000 10054000 11882000 33751000 7767400 18416000 37338000  
32797000 16 16 16 31 31 31 60,046 0 77,718 1864100000 90  
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30660000 33790000 59011000 55852000 54500000 48944000 58147000 26413000 40598000 67411000  
48797000 73033000 13 13 13 33,4 33,4 33,4 40,257 0 37,46  
474200000 163 A0A5G2QMB8;I3LCI2;P29804;A0A5K1VBH1;A0A5G2RNK8  
A0A5G2QMB8;I3LCI2;P29804;A0A5K1VBH1 632 tr|A0A5G2QMB8|A0A5G2QMB8\_PIG  
Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial OS=Sus scrofa  
OX=9823 GN=PDHA1 PE=1 SV=1;tr|I3LCI2|I3LCI2\_PIG Pyruvate dehydrogenase E1 component  
subunit alpha OS=Sus scrofa OX=9823 GN=PDHA1 PE=1  
10418000 11947000 0 0 11310000 0 8698000 0 0 0 0 2 2  
2 3,7 3,7 3,7 56,662 0 4,2983 117560000 17  
A0A5G2R9E6;A0A5G2QMC1;C6K7I1;A0A5G2R9L2;A0A287ATD3  
A0A5G2R9E6;A0A5G2QMC1;C6K7I1;A0A5G2R9L2;A0A287ATD3 633  
tr|A0A5G2R9E6|A0A5G2R9E6\_PIG Importin subunit alpha OS=Sus scrofa OX=9823  
GN=KPNA3 PE=1 SV=1;tr|A0A5G2QMC1|A0A5G2QMC1\_PIG Importin subunit alpha OS=Sus  
scrofa OX=9823 GN=KPNA3 PE=1 SV=1;tr|C6K7I1|C6K7I1\_PIG Importin subunit alpha OS=Sus  
scrofa OX=9823 GN=K

0 0 0 0 0 0 0 0 0 0 0 0 0 22 1 1 56,3 4,6 4,6  
 32,8 0 3,2474 13342000 3 F1SG00;A0A5G2QMK3;A0A287AD38  
 F1SG00;A0A5G2QMK3;A0A287AD38634 tr|F1SG00|F1SG00\_PIG Tropomyosin 2 OS=Sus  
 scrofa OX=9823 GN=TPM2 PE=1 SV=2;tr|A0A5G2QMK3|A0A5G2QMK3\_PIG Tropomyosin 2  
 OS=Sus scrofa OX=9823 GN=TPM2 PE=1 SV=1;tr|A0A287AD38|A0A287AD38\_PIG Tropomyosin 2  
 OS=Sus scrofa OX=9823 GN=TPM2 PE=1 SV=2  
 103230000 10394000 34676000 35521000 13364000 53047000 26489000 12077000 26409000 55328000  
 16760000 34919000 7 7 4 22,7 22,7 13 33,483 0 11,566  
 1709100000 51  
 A0A5G2QML3;F2Z584;A0A287BID4;A0A287A7G8;I3LAJ9;A0A287AWZ3;F2Z580;F1RTQ6;A0  
 A5G2RG11;A0A5G2R2P2;A0A5G2QI50;F2Z581;A0A287ARA0;F1RFJ3  
 A0A5G2QML3;F2Z584;A0A287BID4;A0A287A7G8;I3LAJ9 635  
 tr|A0A5G2QML3|A0A5G2QML3\_PIG Histone H2B OS=Sus scrofa OX=9823 GN=H1-3 PE=1  
 SV=1;tr|F2Z584|F2Z584\_PIG Histone H2B OS=Sus scrofa OX=9823 GN=HIST1H2BD PE=3  
 SV=1;tr|A0A287BID4|A0A287BID4\_PIG Histone H2B OS=Sus scrofa OX=9823 GN=H2BC21 PE=3  
 SV=1;tr|A0A287A7G8|  
 54841000 34838000 35414000 44047000 20485000 30826000 53926000 22060000 42666000 63216000  
 27892000 34659000 10 10 10 22,9 22,9 22,9 54,377 0 58,326  
 2296100000 103 A0A5G2QN66;G9F6X8;A0A5G2RDD7;A0A287AQH8  
 A0A5G2QN66;G9F6X8;A0A5G2RDD7;A0A287AQH8 636  
 tr|A0A5G2QN66|A0A5G2QN66\_PIG Protein disulfide-isomerase OS=Sus scrofa OX=9823  
 GN=P4HB PE=3 SV=1;tr|G9F6X8|G9F6X8\_PIG Protein disulfide-isomerase OS=Sus scrofa OX=9823  
 GN=P4HB PE=2 SV=1;tr|A0A5G2RDD7|A0A5G2RDD7\_PIG Protein disulfide-isomerase OS=Sus  
 scrofa  
 0 0 0 0 0 0 0 0 0 0 0 0 0 4 4 4 6,7 6,7 6,7  
 61,73 0 3,7284 47413000 8 I3LPT1;A0A5G2RF77;A0A5G2QNL3  
 I3LPT1;A0A5G2RF77;A0A5G2QNL3 637 tr|I3LPT1|I3LPT1\_PIG Transketolase OS=Sus scrofa  
 OX=9823 GN=TKT PE=1 SV=1;tr|A0A5G2RF77|A0A5G2RF77\_PIG Transketolase OS=Sus scrofa  
 OX=9823 GN=TKT PE=1 SV=1;tr|A0A5G2QNL3|A0A5G2QNL3\_PIG Transketolase OS=Sus scrofa  
 OX=9823 GN=TKT PE=1 SV=1  
 43656000 38654000 45721000 14403000 11834000 7371200 23522000 16139000 0 19355000 14131000  
 13895000 9 9 9 18,7 18,7 18,7 66,576 0 27,782 861770000 43  
 F1S7H3;A0A5G2QNNQ1 F1S7H3;A0A5G2QNNQ1 638 tr|F1S7H3|F1S7H3\_PIG Myosin light  
 chain kinase 2, skeletal/cardiac muscle OS=Sus scrofa OX=9823 GN=MYLK2 PE=1  
 SV=3;tr|A0A5G2QNNQ1|A0A5G2QNNQ1\_PIG Myosin light chain kinase 2, skeletal/cardiac muscle  
 OS=Sus scrofa OX=9823 GN=MYLK2 PE=1 SV=1  
 0 0 3983800 5226000 0 0 5418600 0 0 6736200 0 3321000 4  
 4 4 24,4 24,4 24,4 18,69 0 6,0171 77985000 15  
 A0A5G2QNT1;K7GKM7;K7GNY9;F1RZQ7;A0A5G2QMU1  
 A0A5G2QNT1;K7GKM7;K7GNY9;F1RZQ7;A0A5G2QMU1 639  
 tr|A0A5G2QNT1|A0A5G2QNT1\_PIG Prefoldin subunit 3 OS=Sus scrofa OX=9823 GN=VBP1  
 PE=1 SV=1;tr|K7GKM7|K7GKM7\_PIG Prefoldin subunit 3 OS=Sus scrofa OX=9823 GN=VBP1 PE=1

SV=3;tr|K7GNY9|K7GNY9\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 GN=VBP1 PE=1 SV=2;t

14409000 10541000 9672200 0 5573700 0 5689000 0 0 6093600 0 0

5 5 5 22,7 22,7 22,7 29,222 0 12,436 130340000 17

F1RLB5;F1RLB6;A0A5G2QQW2;A0A5G2QNT7

F1RLB5;F1RLB6;A0A5G2QQW2;A0A5G2QNT7 640 tr|F1RLB5|F1RLB5\_PIG NSF attachment protein alpha OS=Sus scrofa OX=9823 GN=NAPA PE=1 SV=4;tr|F1RLB6|F1RLB6\_PIG NSF attachment protein alpha OS=Sus scrofa OX=9823 GN=NAPA PE=1 SV=3;tr|A0A5G2QQW2|A0A5G2QQW2\_PIG Alpha-soluble NSF attachment protein OS=Sus scr

0 0 0 0 0 0 12498000 0 7032700 14048000 11015000 0 3 3

3 10 10 10 42,971 0 5,9967 133690000 10 A0A5G2QNW1;F1S827

A0A5G2QNW1;F1S827 641 tr|A0A5G2QNW1|A0A5G2QNW1\_PIG SERPINE1 mRNA binding protein 1 OS=Sus scrofa OX=9823 GN=SERBP1 PE=1 SV=1;tr|F1S827|F1S827\_PIG Plasminogen activator inhibitor 1 RNA-binding protein isoform 1 OS=Sus scrofa OX=9823 GN=SERBP1 PE=1 SV=2

157710000 77826000 213570000 330430000 197360000 199250000 265820000

87111000 176930000 444880000 188020000 325480000 8 8 8

42 42 42 19,64 0 44,813 957930000 184

I3LER5;A0A5G2QPD2;Q95283;A0A5G2QNW4;A0A5G2R611

I3LER5;A0A5G2QPD2;Q95283;A0A5G2QNW4;A0A5G2R611 642 tr|I3LER5|I3LER5\_PIG Cytochrome c oxidase subunit 4 OS=Sus scrofa OX=9823 GN=COX4I1 PE=1 SV=2;tr|A0A5G2QPD2|A0A5G2QPD2\_PIG Cytochrome c oxidase subunit 4 OS=Sus scrofa OX=9823 GN=COX4I1 PE=1 SV=1;sp|Q95283|COX41\_PIG Cytochrome c oxidase subunit 4 isoform 1

20127000 15646000 9951400 25006000 13073000 16618000 27199000 9773900 10343000 17806000

11879000 12056000 3 3 3 10,5 10,5 10,5 29,716 0 3,0579

369360000 13 A0A5G2QPJ2;A1XQU1 A0A5G2QPJ2;A1XQU1 643

tr|A0A5G2QPJ2|A0A5G2QPJ2\_PIG Proteasome subunit beta OS=Sus scrofa OX=9823 GN=PSMB7 PE=1 SV=1;sp|A1XQU1|PSB7\_PIG Proteasome subunit beta type-7 OS=Sus scrofa OX=9823 GN=PSMB7 PE=2 SV=2

0 5741300 14744000 10095000 11455000 10799000 5868500 7506500 5255200 8379800 12198000

23312000 7 7 7 35,7 35,7 35,7 25,593 0 15,641 344310000 21

A0A5G2QPK4;F1SK45;A0A5G2QI32 A0A5G2QPK4;F1SK45;A0A5G2QI32 644

tr|A0A5G2QPK4|A0A5G2QPK4\_PIG GTP:AMP phosphotransferase AK3, mitochondrial OS=Sus scrofa OX=9823 GN=AK3 PE=1 SV=1;tr|F1SK45|F1SK45\_PIG Nucleoside-diphosphate kinase OS=Sus scrofa OX=9823 GN=AK3 PE=1 SV=2;tr|A0A5G2QI32|A0A5G2QI32\_PIG Nucleoside-diphosphate

45952000 57910000 97138000 108610000 101620000 104970000 85644000 50410000 77706000

94177000 90677000 140390000 7 7 7 15,2 15,2 15,2 53,296 0

92,293 393630000 114

A0A5G2QPK6;P09623;F1SAF0;A0A5G2QXX6;A0A480N1D9;A0A5G2QGG6;A0A5G2QH34

A0A5G2QPK6;P09623;F1SAF0;A0A5G2QXX6;A0A480N1D9;A0A5G2QGG6;A0A5G2QH34

645 tr|A0A5G2QPK6|A0A5G2QPK6\_PIG Dihydrolipoyl dehydrogenase OS=Sus scrofa OX=9823 GN=DLD PE=1 SV=1;sp|P09623|DLDH\_PIG Dihydrolipoyl dehydrogenase, mitochondrial

OS=Sus scrofa OX=9823 GN=DLD PE=1 SV=1;tr|F1SAF0|F1SAF0\_PIG Dihydrolipoyl dehydrogenase  
OS=Sus scr

0 0 6638500 0 7682300 7702100 0 0 7612000 5581300 0 9956800  
3 3 3 16,4 16,4 16,4 24,491 0 4,9043 95534000 6  
K7GP05;F1S1Q7;A0A5G2R976;A0A5G2RHS1;A0A5G2QPN0;A0A5G2QZI2  
K7GP05;F1S1Q7;A0A5G2R976;A0A5G2RHS1;A0A5G2QPN0;A0A5G2QZI2 646  
tr|K7GP05|K7GP05\_PIG MICOS complex subunit OS=Sus scrofa OX=9823 GN=APOOL PE=1  
SV=2;tr|F1S1Q7|F1S1Q7\_PIG MICOS complex subunit OS=Sus scrofa OX=9823 GN=APOOL PE=1  
SV=3;tr|A0A5G2R976|A0A5G2R976\_PIG MICOS complex subunit OS=Sus scrofa OX=9823  
GN=APOOL PE=1 S

82258000 73521000 57120000 88749000 57802000 75013000 93395000 48564000 72322000 93425000  
62197000 54896000 26 26 26 13,4 13,4 13,4 239,15 0 67,003  
271180000 174  
A0A5G2QPQ0;F1SLE7;A0A5G2QZY1;A0A5G2R7H9;A0A5G2QU72;A0A5G2RDH2;A0A5G2R9  
Y7;A0A5G2QS33;F1SC82;A0A287B6F4;A0A5G2Q8T2;A0A287AHC3;A0A287BPY3  
A0A5G2QPQ0;F1SLE7;A0A5G2QZY1;A0A5G2R7H9;A0A5G2QU72 647  
tr|A0A5G2QPQ0|A0A5G2QPQ0\_PIG Dysferlin OS=Sus scrofa OX=9823 GN=DYSF PE=1  
SV=1;tr|F1SLE7|F1SLE7\_PIG Dysferlin OS=Sus scrofa OX=9823 GN=DYSF PE=1  
SV=4;tr|A0A5G2QZY1|A0A5G2QZY1\_PIG Dysferlin OS=Sus scrofa OX=9823 GN=DYSF PE=1  
SV=1;tr|A0A5G2R7H9|A0A5G2R7H9\_PI

32239000 0 24057000 57143000 23786000 0 47094000 0 24325000 72313000 27915000 0  
3 3 1 13,3 13,3 3,4 39,955 0 17,893 504180000 24 A0A5G2QR28  
A0A5G2QR28648 tr|A0A5G2QR28|A0A5G2QR28\_PIG 3-hydroxyisobutyrate dehydrogenase,  
mitochondrial OS=Sus scrofa OX=9823 GN=HIBADH PE=1 SV=1

0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 7,3 7,3 7,3  
32,724 0 5,4249 37509000 3 A0A5G2QRL2;F1SC51 A0A5G2QRL2;F1SC51 649  
tr|A0A5G2QRL2|A0A5G2QRL2\_PIG PDZ and LIM domain 1 OS=Sus scrofa OX=9823  
GN=PDLIM1 PE=1 SV=1;tr|F1SC51|F1SC51\_PIG PDZ and LIM domain 1 OS=Sus scrofa OX=9823  
GN=PDLIM1 PE=1 SV=4

0 0 13732000 0 0 0 0 4292400 0 0 0 2 2 2 11,7  
11,7 11,7 24,859 0 9,0236 53572000 4 Q6SEG5;A0A5G2QRS7;A0A5G2RGW1  
Q6SEG5;A0A5G2QRS7;A0A5G2RGW1 650 sp|Q6SEG5|UCHL1\_PIG Ubiquitin carboxyl-  
terminal hydrolase isozyme L1 OS=Sus scrofa OX=9823 GN=UCHL1 PE=2  
SV=1;tr|A0A5G2QRS7|A0A5G2QRS7\_PIG Ubiquitin carboxyl-terminal hydrolase OS=Sus scrofa  
OX=9823 GN=UCHL1 PE=1 SV=1;tr|A0A5G2RGW1|A0A5G2RGW1\_PIG Ubiquitin

17438000 0 20141000 0 13283000 17606000 0 9896800 19826000 0 13182000  
3 3 3 7,7 7,7 7,7 68,001 0 32,679 350650000 32 A0A5G2QRX8;F1RIN7  
A0A5G2QRX8;F1RIN7 651 tr|A0A5G2QRX8|A0A5G2QRX8\_PIG Histidine rich calcium  
binding protein OS=Sus scrofa OX=9823 GN=HRC PE=1 SV=1;tr|F1RIN7|F1RIN7\_PIG Histidine rich  
calcium binding protein OS=Sus scrofa OX=9823 GN=HRC PE=1 SV=2

54220000 24460000 57601000 89495000 55387000 61926000 93376000 31360000 44353000 127810000  
48000000 90252000 7 7 7 21,2 21,2 21,2 43,972 0 76,222  
3217000000 130 A0A5G2QS58;A0A287AT07;I3LHS7;A0A5G2QGD9;F6PTP3

A0A5G2QS58;A0A287AT07;I3LHS7;A0A5G2QGD9 652 tr|A0A5G2QS58|A0A5G2QS58\_PIG  
 Ubiquinone biosynthesis protein OS=Sus scrofa OX=9823 GN=COQ9 PE=1  
 SV=1;tr|A0A287AT07|A0A287AT07\_PIG Ubiquinone biosynthesis protein OS=Sus scrofa OX=9823  
 GN=COQ9 PE=1 SV=1;tr|I3LHS7|I3LHS7\_PIG Ubiquinone biosynthesis protein O  
 6660600 10396000 18546000 6505300 15567000 11099000 8329500 8148000 15922000 8757200  
 10612000 15540000 6 6 2 12,2 12,2 4,8 51,179 0 8,0881  
 377170000 35 F1SGT3;A0A5G2QSG9 F1SGT3;A0A5G2QSG9 653  
 tr|F1SGT3|F1SGT3\_PIG Dihydrolipoamide acetyltransferase component of pyruvate  
 dehydrogenase complex OS=Sus scrofa OX=9823 GN=PDHX PE=1  
 SV=2;tr|A0A5G2QSG9|A0A5G2QSG9\_PIG Dihydrolipoamide acetyltransferase component of  
 pyruvate dehydrogenase complex OS=Sus s  
 0 0 0 0 0 0 0 0 0 0 0 0 0 4 4 4 12,6 12,6 12,6  
 43,843 0 19,811 61617000 20 A0A5G2QST4;D0G6X4 A0A5G2QST4;D0G6X4 654  
 tr|A0A5G2QST4|A0A5G2QST4\_PIG Farnesyl diphosphate synthase OS=Sus scrofa OX=9823  
 GN=FDPS PE=1 SV=1;tr|D0G6X4|D0G6X4\_PIG Farnesyl diphosphate synthase OS=Sus scrofa  
 OX=9823 GN=FDPS PE=1 SV=1  
 48361000 33137000 70848000 78788000 62489000 49213000 79265000 36194000 44684000 99414000  
 56490000 94015000 10 10 10 34,3 34,3 34,3 37,128 0 76,359  
 3636300000 147 A0A5G2R718;F1SGH5;A0A5G2QSU5 A0A5G2R718;F1SGH5;A0A5G2QSU5  
 655 tr|A0A5G2R718|A0A5G2R718\_PIG Pyruvate dehydrogenase E1 component subunit beta  
 OS=Sus scrofa OX=9823 GN=PDHB PE=1 SV=1;tr|F1SGH5|F1SGH5\_PIG Pyruvate dehydrogenase  
 E1 component subunit beta OS=Sus scrofa OX=9823 GN=PDHB PE=1  
 SV=1;tr|A0A5G2QSU5|A0A5G2QSU5\_PIG  
 4504500 6097700 5500000 0 0 0 0 0 0 0 0 0 0 5 5 5  
 4,7 4,7 4,7 141,76 0 10,038 33294000 6  
 A0A5G2R988;A0A5G2QY27;Q5GN48;I3LG08;A0A5G2QTV4;F1SPU7;A0A286ZSQ2;I3LPH8  
 A0A5G2R988;A0A5G2QY27;Q5GN48;I3LG08;A0A5G2QTV4;F1SPU7;A0A286ZSQ2 656  
 tr|A0A5G2R988|A0A5G2R988\_PIG Dystrophin OS=Sus scrofa OX=9823 GN=DMD PE=4  
 SV=1;tr|A0A5G2QY27|A0A5G2QY27\_PIG Dystrophin OS=Sus scrofa OX=9823 GN=DMD PE=4  
 SV=1;sp|Q5GN48|DMD\_PIG Dystrophin OS=Sus scrofa OX=9823 GN=DMD PE=1  
 SV=1;tr|I3LG08|I3LG08\_PIG Dystrophin  
 0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 5,8 5,8 5,8  
 47,208 0,0022272 2,4308 23649000 6 F2Z5E2;A0A5G2QUE0 F2Z5E2;A0A5G2QUE0  
 657 tr|F2Z5E2|F2Z5E2\_PIG Serpin family C member 1 OS=Sus scrofa OX=9823 GN=SERPINC1  
 PE=1 SV=2;tr|A0A5G2QUE0|A0A5G2QUE0\_PIG Antithrombin-III OS=Sus scrofa OX=9823  
 GN=SERPINC1 PE=1 SV=1  
 0 8539300 10655000 7102100 7788800 15108000 5320600 5904200 10773000 5978900 8565100  
 10450000 6 6 6 25,9 25,9 25,9 26,688 0 8,4618 324110000 21  
 Q0Z8U2;A0A5G2QUQ6;A0A5G2QSB4;A0A5S6H050  
 Q0Z8U2;A0A5G2QUQ6;A0A5G2QSB4;A0A5S6H050 658 sp|Q0Z8U2|RS3\_PIG 40S  
 ribosomal protein S3 OS=Sus scrofa OX=9823 GN=RPS3 PE=1  
 SV=1;tr|A0A5G2QUQ6|A0A5G2QUQ6\_PIG 40S ribosomal protein S3 OS=Sus scrofa OX=9823

GN=RPS3 PE=1 SV=1;tr|A0A5G2QSB4|A0A5G2QSB4\_PIG 40S ribosomal protein S3 OS=Sus scrofa  
OX=9823 GN=

23875000 17134000 12544000 29742000 16489000 17763000 37551000 15033000 18619000 29025000 0  
0 4 4 4 23,4 23,4 23,4 17,861 0 7,1991 459670000 19  
B8Y648;A0A5G2RDX3;A0A5G2QUT6B8Y648;A0A5G2RDX3;A0A5G2QUT6 659  
tr|B8Y648|B8Y648\_PIG Ubiquitin-conjugating enzyme E2L 3 OS=Sus scrofa OX=9823  
GN=UBE2L3 PE=1 SV=1;tr|A0A5G2RDX3|A0A5G2RDX3\_PIG UBC core domain-containing protein  
OS=Sus scrofa OX=9823 GN=UBE2L3 PE=1 SV=1;tr|A0A5G2QUT6|A0A5G2QUT6\_PIG UBC core  
domain-contain

0 0 66570000 13320000 67503000 98056000 0 23917000 10021000 0 43543000 37953000  
10 10 9 42,9 42,9 37,1 24,026 0 35,43 1003800000 49  
F1SM01;A0A5G2QUW6;F1SLZ3;A0A5G2QF69 F1SM01;A0A5G2QUW6;F1SLZ3;A0A5G2QF69  
660 tr|F1SM01|F1SM01\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 GN=MYL6B  
PE=1 SV=1;tr|A0A5G2QUW6|A0A5G2QUW6\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
GN=MYL6B PE=1 SV=1;tr|F1SLZ3|F1SLZ3\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
GN=MYL6B

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 6,4 6,4 6,4  
19,663 0,0087041 1,4182 16795000 1 A0A5G2QVD3;F1SKI6 A0A5G2QVD3;F1SKI6  
661 tr|A0A5G2QVD3|A0A5G2QVD3\_PIG NADH:ubiquinone oxidoreductase complex  
assembly factor 3 OS=Sus scrofa OX=9823 GN=NDUFAF3 PE=1 SV=1;tr|F1SKI6|F1SKI6\_PIG NADH  
dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 3 OS=Sus scrofa OX=9823  
GN=NDUFAF3 PE=1

0 0 3007000 0 0 2934300 0 0 5197700 0 0 0 2 2 2  
15,1 15,1 15,1 17,992 0 3,6813 31703000 6  
A0A5G2R5R3;A0A5G2QVU1;Q95342;A0A5S8L0N9;A0A5G2QVW0  
A0A5G2R5R3;A0A5G2QVU1;Q95342;A0A5S8L0N9;A0A5G2QVW0 663  
tr|A0A5G2R5R3|A0A5G2R5R3\_PIG 60S ribosomal protein L18 OS=Sus scrofa OX=9823  
GN=RPL18 PE=1 SV=1;tr|A0A5G2QVU1|A0A5G2QVU1\_PIG 60S ribosomal protein L18 OS=Sus  
scrofa OX=9823 GN=RPL18 PE=1 SV=1;sp|Q95342|RL18\_PIG 60S ribosomal protein L18 OS=Sus  
scrofa OX=98

0 7354400 0 6738900 9999000 7424600 9047100 0 7491000 6562100 0 0  
5 5 5 8,8 8,8 8,8 53,841 0 6,2138 178870000 9  
A0A5G2R4N8;I3LR32;A0A5G2QVV0 A0A5G2R4N8;I3LR32;A0A5G2QVV0 664  
tr|A0A5G2R4N8|A0A5G2R4N8\_PIG Chaperonin containing TCP1 subunit 5 OS=Sus scrofa  
OX=9823 GN=CCT5 PE=1 SV=1;tr|I3LR32|I3LR32\_PIG CCT-epsilon OS=Sus scrofa OX=9823  
GN=CCT5 PE=1 SV=2;tr|A0A5G2QVV0|A0A5G2QVV0\_PIG CCT-epsilon OS=Sus scrofa OX=9823  
GN=CCT5 PE=1 S

0 0 0 0 0 0 0 0 0 0 0 0 2 1 1 7,3 4,6 4,6  
44,939 0 8,1757 58445000 6  
I3LFV4;A0A5G2QVX8;F1RWB7;A0A287AJD3;A0A5G2QN07;F1SFU0  
I3LFV4;A0A5G2QVX8;F1RWB7;A0A287AJD3;A0A5G2QN07;F1SFU0 665  
tr|I3LFV4|I3LFV4\_PIG Y-box binding protein 1 OS=Sus scrofa OX=9823 GN=YBX1 PE=1  
SV=3;tr|A0A5G2QVX8|A0A5G2QVX8\_PIG Y-box binding protein 1 OS=Sus scrofa OX=9823



GN=YBX1 PE=1 SV=1;tr|F1RWB7|F1RWB7\_PIG CSD domain-containing protein OS=Sus scrofa  
OX=9823 PE=4

9343300 0 5602800 0 0 9681200 0 0 0 0 0 8426600 4 4  
4 4,9 4,9 4,9 112,62 0 5,8099 97727000 10

K7GQB8;A0A5G2QW05;K7GMZ8;F1SKB1;K7GKN3

K7GQB8;A0A5G2QW05;K7GMZ8;F1SKB1;K7GKN3666 tr|K7GQB8|K7GQB8\_PIG

Uncharacterized protein OS=Sus scrofa OX=9823 GN=CP PE=1  
SV=2;tr|A0A5G2QW05|A0A5G2QW05\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
GN=CP PE=1 SV=1;tr|K7GMZ8|K7GMZ8\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
GN=CP PE=1 SV=3

0 0 0 0 0 0 0 0 0 0 0 0 5 1 0 46 9,7 0  
14,041 0,008629 1,3882 6646200 3 A0A5G2QWP1 A0A5G2QWP1 667

tr|A0A5G2QWP1|A0A5G2QWP1\_PIG Programmed cell death 5 OS=Sus scrofa OX=9823  
GN=PD5C5 PE=1 SV=1

0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 11,3 11,3 11,3  
43,534 0 16,148 26524000 4 A0A5G2QWP7;A0A5G2R8S6;F1SSR4

A0A5G2QWP7;A0A5G2R8S6;F1SSR4 668 tr|A0A5G2QWP7|A0A5G2QWP7\_PIG Butyryl-  
CoA dehydrogenase OS=Sus scrofa OX=9823 GN=IVD PE=1  
SV=1;tr|A0A5G2R8S6|A0A5G2R8S6\_PIG Butyryl-CoA dehydrogenase OS=Sus scrofa OX=9823  
GN=IVD PE=1 SV=1;tr|F1SSR4|F1SSR4\_PIG Butyryl-CoA dehydrogenase OS=Sus scrofa OX=9823

0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 20 20 20  
15,336 0,0030928 1,864 19298000 5 A0A5G2QWQ4;I3LE14;A0A5G2R9I4

A0A5G2QWQ4;I3LE14;A0A5G2R9I4 669 tr|A0A5G2QWQ4|A0A5G2QWQ4\_PIG Coiled-coil  
domain-containing protein 58 OS=Sus scrofa OX=9823 GN=MIX23 PE=1 SV=1;tr|I3LE14|I3LE14\_PIG  
Coiled-coil domain-containing protein 58 OS=Sus scrofa OX=9823 GN=MIX23 PE=1  
SV=3;tr|A0A5G2R9I4|A0A5G2R9I4\_PIG Coiled-coil d

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1,7 1,7 1,7  
75,649 0,0011587 2,7863 9570300 1 A0A5G2QXD8;F1SMV6

A0A5G2QXD8;F1SMV6 670 tr|A0A5G2QXD8|A0A5G2QXD8\_PIG Nucleolin OS=Sus  
scrofa OX=9823 GN=NCL PE=1 SV=1;tr|F1SMV6|F1SMV6\_PIG Nucleolin OS=Sus scrofa OX=9823  
GN=NCL PE=1 SV=2

0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 1,8 1,8 1,8  
134,76 0,0049505 1,5845 0 2 I3LE33;A0A5G2QXM4 I3LE33;A0A5G2QXM4 671

tr|I3LE33|I3LE33\_PIG Zinc finger and BTB domain containing 38 OS=Sus scrofa OX=9823  
GN=ZBTB38 PE=4 SV=1;tr|A0A5G2QXM4|A0A5G2QXM4\_PIG Zinc finger and BTB domain  
containing 38 OS=Sus scrofa OX=9823 GN=ZBTB38 PE=4 SV=1

0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 4,7 4,7 4,7  
74,35 0,0011338 2,5948 1124000 3 A0A5G2QXN3;O11780;F1RHA7

A0A5G2QXN3;O11780;F1RHA7 672 tr|A0A5G2QXN3|A0A5G2QXN3\_PIG Transforming  
growth factor-beta-induced protein ig-h3 OS=Sus scrofa OX=9823 GN=TGFBI PE=1  
SV=1;sp|O11780|BGH3\_PIG Transforming growth factor-beta-induced protein ig-h3 OS=Sus scrofa  
OX=9823 GN=TGFBI PE=1 SV=1;tr|F1RHA7|F1RHA7\_P

80292000 0 66196000 78551000 0 119980000 68830000 51380000 79532000 93830000 35693000  
 85099000 5 5 4 12,6 12,6 9,5 53,519 0 10,684 1523500000 69  
 A0A5G2QXT5;A0A286ZQF6 A0A5G2QXT5;A0A286ZQF6 673  
 tr|A0A5G2QXT5|A0A5G2QXT5\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 PE=1  
 SV=1;tr|A0A286ZQF6|A0A286ZQF6\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 PE=1  
 SV=1  
 16771000 17168000 14758000 32400000 11829000 13222000 24249000 22283000 23266000 25242000  
 13030000 14346000 2 2 2 12,5 12,5 12,5 25,39 0 12,403  
 432130000 33 Q2VTP6;A0A5G2QXY7;A0A5G2QMX4  
 Q2VTP6;A0A5G2QXY7;A0A5G2QMX4 674 tr|Q2VTP6|Q2VTP6\_PIG Peptidylprolyl  
 isomerase OS=Sus scrofa OX=9823 GN=FKBP1A PE=1 SV=2;tr|A0A5G2QXY7|A0A5G2QXY7\_PIG  
 Peptidylprolyl isomerase OS=Sus scrofa OX=9823 GN=FKBP1A PE=1  
 SV=1;tr|A0A5G2QMX4|A0A5G2QMX4\_PIG Peptidylprolyl isomerase OS=Sus scrofa OX=9  
 26112000 30788000 28013000 29661000 19758000 28753000 25983000 19219000 22704000 24122000  
 20726000 31854000 10 10 5 30,6 30,6 16,8 36,668 0 18,923  
 103320000 39 A0A5G2QXZ4;A0A5G2R4D9 A0A5G2QXZ4;A0A5G2R4D9 675  
 tr|A0A5G2QXZ4|A0A5G2QXZ4\_PIG Glutathione S-transferase OS=Sus scrofa OX=9823 PE=1  
 SV=1;tr|A0A5G2R4D9|A0A5G2R4D9\_PIG Glutathione S-transferase OS=Sus scrofa OX=9823 PE=1  
 SV=1  
 0 0 0 0 0 0 0 0 0 0 0 0 3 2 2 13 7,4 7,4  
 24,742 0 6,5329 0 2 A0A5G2QY21A0A5G2QY21676  
 tr|A0A5G2QY21|A0A5G2QY21\_PIG Reticulocalbin 2 OS=Sus scrofa OX=9823 GN=RCN2 PE=1  
 SV=1  
 0 0 14019000 0 0 0 15805000 15691000 21144000 0 12837000 3  
 3 3 21,7 21,7 21,7 18,952 0 9,2504 200990000 14  
 F1SPZ9;A0A5G2QYC2;A0A5G2REC4;K7GPW3;A0A5G2R5P0  
 F1SPZ9;A0A5G2QYC2;A0A5G2REC4;K7GPW3;A0A5G2R5P0 677  
 tr|F1SPZ9|F1SPZ9\_PIG MICOS complex subunit OS=Sus scrofa OX=9823 GN=APOO PE=1  
 SV=4;tr|A0A5G2QYC2|A0A5G2QYC2\_PIG MICOS complex subunit OS=Sus scrofa OX=9823  
 GN=APOO PE=1 SV=1;tr|A0A5G2REC4|A0A5G2REC4\_PIG MICOS complex subunit OS=Sus scrofa  
 OX=9823 GN=APOO P  
 8171000 0 17584000 6577700 0 24083000 7688700 0 9418500 10986000 0 14574000  
 6 6 6 11,1 11,1 11,1 56,078 0 22,503 414660000 23  
 A0A5G2QYD6;F1SFI5 A0A5G2QYD6;F1SFI5 678 tr|A0A5G2QYD6|A0A5G2QYD6\_PIG  
 Histidine rich glycoprotein OS=Sus scrofa OX=9823 GN=HRG PE=1 SV=1;tr|F1SFI5|F1SFI5\_PIG  
 Histidine rich glycoprotein OS=Sus scrofa OX=9823 GN=HRG PE=1 SV=3  
 17812000 11726000 12207000 16402000 9654500 8946700 18458000 8989100 10342000 21026000  
 9490800 10916000 3 3 3 35,9 35,9 35,9 14,333 0 13,083  
 388780000 16 A0A5G2RAT8;P00172;A0A5G2QYD9;A0A5G2QFV0  
 A0A5G2RAT8;P00172;A0A5G2QYD9;A0A5G2QFV0 679  
 tr|A0A5G2RAT8|A0A5G2RAT8\_PIG Cytochrome b5 OS=Sus scrofa OX=9823 GN=CYP5A PE=1  
 SV=1;sp|P00172|CYP5\_PIG Cytochrome b5 OS=Sus scrofa OX=9823 GN=CYP5A PE=1

SV=3;tr|A0A5G2QYD9|A0A5G2QYD9\_PIG Cytochrome b5 OS=Sus scrofa OX=9823 GN=CYB5A  
PE=1 SV=1;tr|A0A5G2QFV0|

54502000 76868000 55961000 71058000 74315000 98316000 75293000 64545000 71000000 64816000  
77027000 71170000 5 3 3 10,4 6,6 6,6 41,277 0,0011364 2,6179  
1008100000 14 A0A5G2QYS6;I3LLU0;A0A287AV28 A0A5G2QYS6;I3LLU0;A0A287AV28  
680 tr|A0A5G2QYS6|A0A5G2QYS6\_PIG Glycerol-3-phosphate dehydrogenase [NAD(+)]  
OS=Sus scrofa OX=9823 GN=GPD1L PE=1 SV=1;tr|I3LLU0|I3LLU0\_PIG Glycerol-3-phosphate  
dehydrogenase [NAD(+)] OS=Sus scrofa OX=9823 GN=GPD1L PE=1  
SV=2;tr|A0A287AV28|A0A287AV28\_PIG Glycero

12719000 21479000 17247000 21547000 18473000 21521000 17059000 16975000 23008000 16412000  
22234000 18307000 4 4 4 8,4 8,4 8,4 56,71 0 10,606  
376730000 26 F6QAM9;A0A5G2QYT3;A0A5G2RD31  
F6QAM9;A0A5G2QYT3;A0A5G2RD31 681 tr|F6QAM9|F6QAM9\_PIG Adenylosuccinate  
lyase OS=Sus scrofa OX=9823 GN=ADSL PE=1 SV=2;tr|A0A5G2QYT3|A0A5G2QYT3\_PIG  
Adenylosuccinate lyase OS=Sus scrofa OX=9823 GN=ADSL PE=1  
SV=1;tr|A0A5G2RD31|A0A5G2RD31\_PIG Adenylosuccinase OS=Sus scrofa OX=9823 GN=ADSL  
PE=1

0 0 0 0 0 0 0 0 0 0 0 0 0 33 1 0 16,5 0,4 0  
222,34 0,0086873 1,4059 186950000 8 A0A5G2QYU9;F1SS61;A0A5G2QTZ6  
A0A5G2QYU9;F1SS61;A0A5G2QTZ6 682 tr|A0A5G2QYU9|A0A5G2QYU9\_PIG Myosin  
heavy chain 3 OS=Sus scrofa OX=9823 GN=MYH3 PE=1 SV=1;tr|F1SS61|F1SS61\_PIG Myosin  
heavy chain 3 OS=Sus scrofa OX=9823 GN=MYH3 PE=1 SV=2;tr|A0A5G2QTZ6|A0A5G2QTZ6\_PIG Myosin  
heavy chain 3 OS=Sus scrofa OX=9823 GN=MYH3 PE=1

7402500 5956600 6710200 0 10397000 5758200 8219700 0 6534600 0 7677000 7722000  
3 3 3 3,4 3,4 3,4 97,224 0 6,075 130510000 17  
F1RWJ5;A0A5G2QZ16 F1RWJ5;A0A5G2QZ16 683 tr|F1RWJ5|F1RWJ5\_PIG Importin subunit  
beta-1 OS=Sus scrofa OX=9823 GN=KPNB1 PE=1 SV=3;tr|A0A5G2QZ16|A0A5G2QZ16\_PIG  
Karyopherin subunit beta 1 OS=Sus scrofa OX=9823 GN=KPNB1 PE=1 SV=1

5139400 0 0 4076300 0 0 0 0 4559200 7233600 0 4695700 3  
3 3 13 13 13 34,509 0 4,428 73919000 6  
A0A5G2QZ46;Q9GKX6;A0A5G2QHL8;A0A5S6G4Y0;A0A5G2R1N9;A0A5G2R053  
A0A5G2QZ46;Q9GKX6;A0A5G2QHL8;A0A5S6G4Y0;A0A5G2R1N9 684  
tr|A0A5G2QZ46|A0A5G2QZ46\_PIG Galactose mutarotase OS=Sus scrofa OX=9823 GN=GALM  
PE=4 SV=1;sp|Q9GKX6|GALM\_PIG Galactose mutarotase OS=Sus scrofa OX=9823 GN=GALM PE=2  
SV=1;tr|A0A5G2QHL8|A0A5G2QHL8\_PIG Galactose mutarotase OS=Sus scrofa OX=9823  
GN=GALM PE=4 S

25662000 35200000 37638000 0 21138000 0 6673800 29202000 8818000 10019000 24398000  
11050000 10 10 10 7,1 7,1 7,1 779,55 0 43,287 564120000 39  
A0A5G2QZ79;A0A287BRL9 A0A5G2QZ79685 tr|A0A5G2QZ79|A0A5G2QZ79\_PIG  
Uncharacterized protein OS=Sus scrofa OX=9823 GN=OBSCN PE=3 SV=1

41247000 24476000 29148000 27001000 28803000 28848000 27769000 21632000 27631000 27434000  
19335000 22642000 3 3 1 25 25 7,6 16,512 0 39,144  
652530000 37 A0A5G2RGI4;A0A5G2QZC6 A0A5G2RGI4;A0A5G2QZC6 686

tr|A0A5G2RGI4|A0A5G2RGI4\_PIG UBC core domain-containing protein OS=Sus scrofa  
OX=9823 GN=UBE2N PE=1 SV=1;tr|A0A5G2QZC6|A0A5G2QZC6\_PIG UBC core domain-  
containing protein OS=Sus scrofa OX=9823 GN=UBE2N PE=1 SV=1  
0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 4,7 4,7 4,7  
25,898 0 4,4435 60684000 11 I3LAB6;A0A5G2QZH5 I3LAB6;A0A5G2QZH5 687  
tr|I3LAB6|I3LAB6\_PIG Proteasome subunit alpha type OS=Sus scrofa OX=9823 GN=PSMA2  
PE=1 SV=1;tr|A0A5G2QZH5|A0A5G2QZH5\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
GN=PSMA2 PE=1 SV=1  
8427000000 13341000000 7487200000 5204000000 10374000000 7736700000 5806600000  
10539000000 7517300000 7234100000 9609200000 6654100000 25 25  
11 62,5 62,5 25,2 43,059 0 323,31 72628000000 5071  
Q5XLD3;A0A5G2QZN6;A0A287AMP3 Q5XLD3;A0A5G2QZN6;A0A287AMP3 688  
sp|Q5XLD3|KCRM\_PIG Creatine kinase M-type OS=Sus scrofa OX=9823 GN=CKM PE=2  
SV=1;tr|A0A5G2QZN6|A0A5G2QZN6\_PIG Creatine kinase OS=Sus scrofa OX=9823 GN=CKM PE=1  
SV=1;tr|A0A287AMP3|A0A287AMP3\_PIG Creatine kinase OS=Sus scrofa OX=9823 GN=CKM PE=1  
SV=1  
6076800 8096000 7639500 0 6330200 0 0 0 0 0 0 0 4 4  
4 4,7 4,7 4,7 101,5 0 6,611 83628000 8 F1RUY9;A0A5G2QZP0;A0A287BLD0  
F1RUY9;A0A5G2QZP0 689 tr|F1RUY9|F1RUY9\_PIG Carnosine synthase 1 OS=Sus scrofa  
OX=9823 GN=CARN1S1 PE=1 SV=2;tr|A0A5G2QZP0|A0A5G2QZP0\_PIG Carnosine synthase 1  
OS=Sus scrofa OX=9823 GN=CARN1S1 PE=1 SV=1  
24672000 38024000 33805000 26803000 37781000 36298000 29481000 27759000 32878000 17712000  
21646000 26581000 4 4 4 18 18 18 25,126 0 16,813  
1029700000 35 A0A5G2QZY6;F1RFQ7;A0A5G2QD71  
A0A5G2QZY6;F1RFQ7;A0A5G2QD71 690 tr|A0A5G2QZY6|A0A5G2QZY6\_PIG GTP-  
binding nuclear protein Ran OS=Sus scrofa OX=9823 GN=RAN PE=1 SV=1;tr|F1RFQ7|F1RFQ7\_PIG  
GTP-binding nuclear protein Ran OS=Sus scrofa OX=9823 GN=RAN PE=1  
SV=2;tr|A0A5G2QD71|A0A5G2QD71\_PIG GTP-binding nuclear protein Ran OS=  
0 25053000 20519000 59470000 0 0 0 0 0 0 0 0 3 3 0  
26,6 26,6 0 19,67 0 17,589 407760000 19 A0A5G2R0B0 A0A5G2R0B0 691  
tr|A0A5G2R0B0|A0A5G2R0B0\_PIG Protein phosphatase 1 regulatory inhibitor subunit 1A  
OS=Sus scrofa OX=9823 GN=PPP1R1A PE=1 SV=1  
19276000 15783000 33389000 34374000 34729000 36888000 27403000 18717000 30101000 44033000  
33844000 67274000 9 9 9 39,7 39,7 39,7 25,455 0 29,859  
2535900000 104 A0A5G2R0H0;Q6UAQ8;A0A5G2R9W5;A0A5G2QX18  
A0A5G2R0H0;Q6UAQ8;A0A5G2R9W5;A0A5G2QX18 692  
tr|A0A5G2R0H0|A0A5G2R0H0\_PIG Electron transfer flavoprotein subunit beta OS=Sus scrofa  
OX=9823 GN=ETFB PE=1 SV=1;sp|Q6UAQ8|ETFB\_PIG Electron transfer flavoprotein subunit beta  
OS=Sus scrofa OX=9823 GN=ETFB PE=1 SV=3;tr|A0A5G2R9W5|A0A5G2R9W5\_PIG Electron tr  
0 25155000 57360000 83673000 49176000 43710000 49279000 28567000 62522000 74951000 51204000  
59493000 2 2 2 44,9 44,9 44,9 5,7487 0 25,366 983810000 46  
A0A5G2R0H7;Q95339;A0A5S6G3W0 A0A5G2R0H7;Q95339;A0A5S6G3W0 693  
tr|A0A5G2R0H7|A0A5G2R0H7\_PIG ATP synthase membrane subunit f OS=Sus scrofa

OX=9823 GN=ATP5MF PE=3 SV=1;sp|Q95339|ATPK\_PIG ATP synthase subunit f, mitochondrial  
 OS=Sus scrofa OX=9823 GN=ATP5MF PE=1 SV=4;tr|A0A5S6G3W0|A0A5S6G3W0\_PIG ATP  
 synthase membrane sub

0 7870900 12145000 0 10181000 11348000 0 7341000 7229000 7747400 8740500 21146000  
 5 5 5 17,4 17,4 17,4 37,149 0 23,196 319070000 18

A0A5G2R8L9;A0A5G2R0Z8;F1SNA8;K7GNL4 A0A5G2R8L9;A0A5G2R0Z8;F1SNA8;K7GNL4  
 694 tr|A0A5G2R8L9|A0A5G2R8L9\_PIG Hydroxysteroid dehydrogenase like 2 OS=Sus scrofa  
 OX=9823 GN=HSDL2 PE=1 SV=1;tr|A0A5G2R0Z8|A0A5G2R0Z8\_PIG Hydroxysteroid  
 dehydrogenase like 2 OS=Sus scrofa OX=9823 GN=HSDL2 PE=1 SV=1;tr|F1SNA8|F1SNA8\_PIG  
 Hydroxysteroid dehydrog

11446000 10746000 12050000 15997000 6196000 7375100 18742000 11265000 17662000 22111000  
 6797500 12102000 5 5 5 27,9 27,9 27,9 23,491 0 15,799

502230000 31 A0A5G2R1E6;Q9N1F5;F1S5N8 A0A5G2R1E6;Q9N1F5 695  
 tr|A0A5G2R1E6|A0A5G2R1E6\_PIG Glutathione-dependent dehydroascorbate reductase  
 OS=Sus scrofa OX=9823 GN=GSTO1 PE=1 SV=1;sp|Q9N1F5|GSTO1\_PIG Glutathione S-transferase  
 omega-1 OS=Sus scrofa OX=9823 GN=GSTO1 PE=1 SV=2

0 0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 3,1 3,1 3,1  
 100,63 0 3,5627 17185000 3 A0A5G2R1I5;F1SBU7;I3L7T4;A0A5G2R1B2

A0A5G2R1I5;F1SBU7;I3L7T4;A0A5G2R1B2 696 tr|A0A5G2R1I5|A0A5G2R1I5\_PIG Lon  
 protease homolog, mitochondrial OS=Sus scrofa OX=9823 GN=LONP1 PE=1  
 SV=1;tr|F1SBU7|F1SBU7\_PIG Lon protease homolog, mitochondrial OS=Sus scrofa OX=9823  
 GN=LONP1 PE=1 SV=2;tr|I3L7T4|I3L7T4\_PIG Lon protease homolog, mitochond

0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 6,4 6,4 6,4  
 31,98 0,0031217 1,909 25066000 3

I3LQA8;A0A5G2R1L7;A0A287BQJ3;F6Q3L0;A0A286ZPA2  
 I3LQA8;A0A5G2R1L7;A0A287BQJ3;F6Q3L0;A0A286ZPA2 697 tr|I3LQA8|I3LQA8\_PIG  
 Microtubule-associated protein RP/EB family member 3 OS=Sus scrofa OX=9823 GN=MAPRE3 PE=1  
 SV=2;tr|A0A5G2R1L7|A0A5G2R1L7\_PIG Microtubule associated protein RP/EB family member 3  
 OS=Sus scrofa OX=9823 GN=MAPRE3 PE=1 SV=1;tr|A0A287BQJ3|A0

19894000 21502000 42807000 42982000 46051000 40730000 34108000 25617000 35270000 36973000  
 53478000 63256000 6 6 6 19,5 19,5 19,5 36,301 0 42,037

120600000 53 A0A5G2R1P2;I3LDC1;Q007T0 A0A5G2R1P2;I3LDC1;Q007T0 698  
 tr|A0A5G2R1P2|A0A5G2R1P2\_PIG Succinate dehydrogenase [ubiquinone] iron-sulfur subunit,  
 mitochondrial OS=Sus scrofa OX=9823 GN=SDHB PE=1 SV=1;tr|I3LDC1|I3LDC1\_PIG Succinate  
 dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondrial OS=Sus scrofa OX=9823

4256000 0 0 0 0 0 7107200 0 3663200 4233500 0 0 4 4  
 4 21,6 21,6 21,6 27,05 0 8,0558 52169000 10

A0A5G2R267;A0A5G2QPH4;F1SGT2;K7GLU2;A0A5G2Q9S9;A0A287ALG9;A0A286ZZL6  
 A0A5G2R267;A0A5G2QPH4;F1SGT2;K7GLU2;A0A5G2Q9S9;A0A287ALG9;A0A286ZZL6 699  
 tr|A0A5G2R267|A0A5G2R267\_PIG Methylthioribulose-1-phosphate dehydratase OS=Sus  
 scrofa OX=9823 GN=APIP PE=1 SV=1;tr|A0A5G2QPH4|A0A5G2QPH4\_PIG Methylthioribulose-1-  
 phosphate dehydratase OS=Sus scrofa OX=9823 GN=APIP PE=1 SV=1;tr|F1SGT2|F1SGT2\_PIG  
 Methylthior

11928000 7699600 0 0 7379100 0 7775300 0 0 6024800 0 0 5  
 5 5 14,4 14,4 14,4 49,065 0 10,647 114180000 16 F1RGN8;A0A5G2R298  
 F1RGN8;A0A5G2R298 700 tr|F1RGN8|F1RGN8\_PIG Smoothelin like 2 OS=Sus scrofa  
 OX=9823 GN=SMTNL2 PE=1 SV=1;tr|A0A5G2R298|A0A5G2R298\_PIG Smoothelin like 2 OS=Sus  
 scrofa OX=9823 GN=SMTNL2 PE=1 SV=1  
 5080900 8257000 12536000 8485900 18123000 17087000 4488300 10894000 15863000 9141300  
 19504000 31628000 8 8 8 16,1 16,1 16,1 66,118 0 42,795  
 595670000 59 A0A5G2R2C9;F1RTH3;A0A5G2QTA3;A0A5G2QQE8;A0A5G2R2M9  
 A0A5G2R2C9;F1RTH3;A0A5G2QTA3;A0A5G2QQE8 701  
 tr|A0A5G2R2C9|A0A5G2R2C9\_PIG Apoptosis inducing factor mitochondria associated 1  
 OS=Sus scrofa OX=9823 GN=AIFM1 PE=1 SV=1;tr|F1RTH3|F1RTH3\_PIG Apoptosis inducing factor  
 mitochondria associated 1 OS=Sus scrofa OX=9823 GN=AIFM1 PE=1  
 SV=1;tr|A0A5G2QTA3|A0A5G2  
 0 0 8709000 18140000 11937000 11445000 22234000 9707500 12689000 0 10205000 10611000  
 5 5 5 20,6 20,6 20,6 26,029 0 6,6635 262600000 14  
 A0A5G2R2Y1;F1SSL6;A0A5G2QWE9 A0A5G2R2Y1;F1SSL6;A0A5G2QWE9 702  
 tr|A0A5G2R2Y1|A0A5G2R2Y1\_PIG Proteasome subunit alpha type OS=Sus scrofa OX=9823  
 GN=PSMA3 PE=1 SV=1;tr|F1SSL6|F1SSL6\_PIG Proteasome subunit alpha type OS=Sus scrofa  
 OX=9823 GN=PSMA3 PE=1 SV=1;tr|A0A5G2QWE9|A0A5G2QWE9\_PIG Proteasome subunit alpha  
 type OS=Su  
 16392000 19899000 10636000 21843000 18725000 0 25807000 16289000 12264000 24630000 0 0  
 8 8 8 31 31 31 37,422 0 25,004 473270000 14  
 A0A5G2R384;A0A5G2QH28;F1RUJ4;A0A287AC11;A0A5G2R668;A0A287AYH2;A0A5G2QD15  
 ;A0A287B1Y7;F1SGN8;A0A5G2R2M5;A0A5G2QD33;A0A287A4Y2;F1RPP3;A0A287AHW1  
 A0A5G2R384;A0A5G2QH28;F1RUJ4;A0A287AC11 703 tr|A0A5G2R384|A0A5G2R384\_PIG  
 GMP reductase OS=Sus scrofa OX=9823 GN=GMMPR PE=1  
 SV=1;tr|A0A5G2QH28|A0A5G2QH28\_PIG GMP reductase OS=Sus scrofa OX=9823 GN=GMMPR  
 PE=1 SV=1;tr|F1RUJ4|F1RUJ4\_PIG GMP reductase OS=Sus scrofa OX=9823 GN=GMMPR PE=1  
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 11952000 17558000 43766000 20445000 42309000 39518000 11274000 32214000 30197000 17223000  
 42564000 80190000 13 13 13 22,7 22,7 22,7 69,844 0 67,459  
 2143400000 105 F1ST43;A0A5G2R3E4 F1ST43;A0A5G2R3E4 704 tr|F1ST43|F1ST43\_PIG  
 Acyl-CoA dehydrogenase very long chain OS=Sus scrofa OX=9823 GN=ACADVL PE=1  
 SV=4;tr|A0A5G2R3E4|A0A5G2R3E4\_PIG Acyl-CoA dehydrogenase very long chain OS=Sus scrofa  
 OX=9823 GN=ACADVL PE=1 SV=1  
 0 0 4128900 6858700 0 0 8512500 0 0 7634200 0 0 2 2  
 2 5 5 5 42,518 0 3,489 66666000 9 A0A5G2R3I8;F1RN44  
 A0A5G2R3I8;F1RN44 705 tr|A0A5G2R3I8|A0A5G2R3I8\_PIG Lysosomal associated  
 membrane protein 1 OS=Sus scrofa OX=9823 GN=LAMP1 PE=1 SV=1;tr|F1RN44|F1RN44\_PIG  
 Lysosomal associated membrane protein 1 OS=Sus scrofa OX=9823 GN=LAMP1 PE=1 SV=2  
 23709000 0 12138000 30591000 33814000 41921000 30844000 0 15957000 44085000 22902000  
 25886000 6 6 6 7 7 7 80,864 0 6,302 595330000 22  
 A0A5G2R3M0;A0A5G2R0M3;I3LL94 A0A5G2R3M0;A0A5G2R0M3 706

tr|A0A5G2R3M0|A0A5G2R3M0\_PIG Triadin OS=Sus scrofa OX=9823 GN=TRDN PE=1 SV=1;tr|A0A5G2R0M3|A0A5G2R0M3\_PIG Triadin OS=Sus scrofa OX=9823 GN=TRDN PE=1 SV=1  
14050000 18547000 45862000 41741000 29809000 42293000 17180000 20137000 47164000 35532000  
35840000 84624000 6 6 6 11,4 11,4 11,4 52,886 0 16,264  
1055900000 50 A0A5G2R3N7;F1S1A8 A0A5G2R3N7;F1S1A8 707  
tr|A0A5G2R3N7|A0A5G2R3N7\_PIG Complex I-49kD OS=Sus scrofa OX=9823 GN=NDUFS2  
PE=1 SV=1;tr|F1S1A8|F1S1A8\_PIG Complex I-49kD OS=Sus scrofa OX=9823 GN=NDUFS2 PE=1 SV=2  
11537000 0 8137700 10125000 8982400 8093200 17439000 0 7864700 16103000 0 8337500  
4 4 4 14,7 14,7 14,7 39,752 0 13,333 248250000 10  
F6Q4F9;A0A5G2R4U3;Q684M6 F6Q4F9;A0A5G2R4U3;Q684M6 708  
tr|F6Q4F9|F6Q4F9\_PIG Hsp90 chaperone protein kinase-targeting subunit OS=Sus scrofa  
OX=9823 GN=CDC37 PE=1 SV=1;tr|A0A5G2R4U3|A0A5G2R4U3\_PIG Hsp90 chaperone protein  
kinase-targeting subunit OS=Sus scrofa OX=9823 GN=CDC37 PE=1 SV=1;tr|Q684M6|Q684M6\_PIG  
Hsp90  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 6,3 6,3 6,3  
27,455 0,0011601 2,7978 27126000 3 A0A5K1VDT5;F2Z567;A0A5G2R4W2  
A0A5K1VDT5;F2Z567;A0A5G2R4W2 709 tr|A0A5K1VDT5|A0A5K1VDT5\_PIG 60S ribosomal  
protein L8 OS=Sus scrofa OX=9823 GN=RPL8 PE=1 SV=1;tr|F2Z567|F2Z567\_PIG 60S ribosomal  
protein L8 OS=Sus scrofa OX=9823 GN=RPL8 PE=1 SV=1;tr|A0A5G2R4W2|A0A5G2R4W2\_PIG 60S  
ribosomal protein L8 OS=Sus scrofa OX=9823  
0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 1,4 1,4 1,4  
188,61 0 5,6652 14084000 7 I3LGD4;A0A5K1U8P1;A0A5G2R4Y7  
I3LGD4;A0A5K1U8P1;A0A5G2R4Y7 710 tr|I3LGD4|I3LGD4\_PIG Clathrin heavy chain  
OS=Sus scrofa OX=9823 GN=CLTC PE=1 SV=3;tr|A0A5K1U8P1|A0A5K1U8P1\_PIG Clathrin heavy  
chain OS=Sus scrofa OX=9823 GN=CLTC PE=1 SV=1;tr|A0A5G2R4Y7|A0A5G2R4Y7\_PIG Clathrin  
heavy chain OS=Sus scrofa OX=9823 GN=CLTC PE=1  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 2,8 2,8 2,8  
43,037 0,0077973 1,4785 4640300 1 A0A5G2R529;F1SF13 A0A5G2R529;F1SF13  
711 tr|A0A5G2R529|A0A5G2R529\_PIG Cobl domain-containing protein OS=Sus scrofa  
OX=9823 PE=4 SV=1;tr|F1SF13|F1SF13\_PIG Cobl domain-containing protein OS=Sus scrofa OX=9823  
PE=4 SV=3  
0 17095000 21464000 13808000 16668000 25465000 9940600 16014000 27374000 10415000 19716000  
25837000 5 5 5 24 24 24 26,515 0 11,079 409350000 28  
A0A5S6FWI2;Q9TV69;A0A5G2R5E5;A0A5G2R1Z9;F1RIQ4;A0A5G2RFU3  
A0A5S6FWI2;Q9TV69;A0A5G2R5E5;A0A5G2R1Z9;F1RIQ4 712  
tr|A0A5S6FWI2|A0A5S6FWI2\_PIG Trans-1,2-dihydrobenzene-1,2-diol dehydrogenase OS=Sus  
scrofa OX=9823 GN=DHDH PE=4 SV=1;sp|Q9TV69|DHDH\_PIG Trans-1,2-dihydrobenzene-1,2-diol  
dehydrogenase OS=Sus scrofa OX=9823 GN=DHDH PE=1 SV=1;tr|A0A5G2R5E5|A0A5G2R5E5\_PIG  
Tra  
0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 21,3 21,3 21,3  
15,016 0 108,46 82568000 12 A0A5G2R5U8;K7GNZ3 A0A5G2R5U8;K7GNZ3  
713 tr|A0A5G2R5U8|A0A5G2R5U8\_PIG NAC-A/B domain-containing protein OS=Sus scrofa

OX=9823 GN=NACA PE=1 SV=1;tr|K7GNZ3|K7GNZ3\_PIG NAC-A/B domain-containing protein  
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7631800 9109100 35401000 34469000 23758000 28363000 30591000 8151100 20884000 34712000  
19914000 37299000 8 8 8 24,1 24,1 24,1 37,655 0 32,691  
1248700000 80 A0A5G2R5W7;A0A5G2QV44;A0A5K1U5Q1  
A0A5G2R5W7;A0A5G2QV44;A0A5K1U5Q1 714 tr|A0A5G2R5W7|A0A5G2R5W7\_PIG 2,4-  
dienoyl-CoA reductase 1 OS=Sus scrofa OX=9823 GN=DECR1 PE=1  
SV=1;tr|A0A5G2QV44|A0A5G2QV44\_PIG 2,4-dienoyl-CoA reductase 1 OS=Sus scrofa OX=9823  
GN=DECR1 PE=1 SV=1;tr|A0A5K1U5Q1|A0A5K1U5Q1\_PIG 2,4-dienoyl-CoA reductase 1 OS=  
13312000 9310000 6536100 17922000 6393900 7857700 20166000 6383400 6206300 14185000  
7799800 6641400 5 5 0 45,7 45,7 0 14,389 0 17,336  
336060000 38 A0A5G2R631;A0A5G2QQ27;A0A5G2Q930 A0A5G2R631;A0A5G2QQ27  
715 tr|A0A5G2R631|A0A5G2R631\_PIG Programmed cell death 5 OS=Sus scrofa OX=9823  
GN=PDCD5 PE=1 SV=1;tr|A0A5G2QQ27|A0A5G2QQ27\_PIG Programmed cell death 5 OS=Sus  
scrofa OX=9823 GN=PDCD5 PE=1 SV=1  
0 9796900 35940000 0 0 0 0 0 0 0 5785200 4 4 4  
19,4 19,4 19,4 28,133 0 7,4627 156370000 7  
I3LJ05;A0A5G2R6F6;A0A5G2QJL9;A0A287ANM8;A0A5G2R3V5  
I3LJ05;A0A5G2R6F6;A0A5G2QJL9;A0A287ANM8 716 tr|I3LJ05|I3LJ05\_PIG  
Uncharacterized protein OS=Sus scrofa OX=9823 GN=GATD3A PE=1  
SV=3;tr|A0A5G2R6F6|A0A5G2R6F6\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
GN=GATD3A PE=1 SV=1;tr|A0A5G2QJL9|A0A5G2QJL9\_PIG Uncharacterized protein OS=Sus  
scrofa OX=9823  
0 0 0 0 0 0 0 0 0 0 0 8 1 1 13,7 1,7 1,7  
71,108 0 8,7947 446230000 21 Q04967;A0A5G2R717 Q04967;A0A5G2R717 717  
sp|Q04967|HSP76\_PIG Heat shock 70 kDa protein 6 OS=Sus scrofa OX=9823 GN=HSPA6 PE=1  
SV=1;tr|A0A5G2R717|A0A5G2R717\_PIG Heat shock 70 kDa protein 6 OS=Sus scrofa OX=9823  
GN=HSPA6 PE=3 SV=1  
0 0 0 0 0 0 0 0 0 0 0 1 1 1 2,3 2,3 2,3  
55,261 0,001139 2,6445 29875000 4 A0A5G2R740;F1RM25 A0A5G2R740;F1RM25 718  
tr|A0A5G2R740|A0A5G2R740\_PIG Serine/threonine-protein phosphatase OS=Sus scrofa  
OX=9823 GN=PPP5C PE=1 SV=1;tr|F1RM25|F1RM25\_PIG Serine/threonine-protein phosphatase  
OS=Sus scrofa OX=9823 GN=PPP5C PE=1 SV=3  
30264000 20309000 24486000 57156000 28011000 32035000 54216000 19644000 44498000 51983000  
23977000 23637000 6 6 6 13,5 13,5 13,5 57,464 0 13,625  
1035100000 31 I3L9F5;A0A5G2R787;A0A287BMH4 I3L9F5;A0A5G2R787;A0A287BMH4  
719 tr|I3L9F5|I3L9F5\_PIG Prenylcysteine oxidase 1 OS=Sus scrofa OX=9823 GN=PCYOX1 PE=1  
SV=3;tr|A0A5G2R787|A0A5G2R787\_PIG Prenylcysteine oxidase 1 OS=Sus scrofa OX=9823  
GN=PCYOX1 PE=1 SV=1;tr|A0A287BMH4|A0A287BMH4\_PIG Prenylcysteine oxidase 1 OS=Sus  
scrofa OX=9  
0 0 14870000 0 13164000 0 0 0 0 11567000 6 2 1  
22,9 7,3 3,2 25,444 0,0022497 2,5122 99202000 4 A0A5G2R7F0 A0A5G2R7F0 720  
tr|A0A5G2R7F0|A0A5G2R7F0\_PIG Glutathione transferase OS=Sus scrofa OX=9823 PE=1 SV=1



0 0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 6,2 6,2 6,2  
 64,901 0 9,6476 7752400 3 A5A779;A0A5G2R7L5 A5A779;A0A5G2R7L5 721  
 sp|A5A779|PGTA\_PIG Geranylgeranyl transferase type-2 subunit alpha OS=Sus scrofa  
 OX=9823 GN=RABGGTA PE=2 SV=1;tr|A0A5G2R7L5|A0A5G2R7L5\_PIG Geranylgeranyl  
 transferase type-2 subunit alpha OS=Sus scrofa OX=9823 GN=RABGGTA PE=1 SV=1  
 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 8,1 8,1 8,1  
 19,307 0 9,1232 12247000 3 A0A5G2R7V4;A0A5G2RIY7;F1SM07  
 A0A5G2R7V4;A0A5G2RIY7;F1SM07 722 tr|A0A5G2R7V4|A0A5G2R7V4\_PIG COP9  
 signalosome subunit 8 OS=Sus scrofa OX=9823 GN=COPS8 PE=1  
 SV=1;tr|A0A5G2RIY7|A0A5G2RIY7\_PIG COP9 signalosome complex subunit 8 OS=Sus scrofa  
 OX=9823 GN=COPS8 PE=1 SV=1;tr|F1SM07|F1SM07\_PIG COP9 signalosome complex subunit  
 0 0 0 7434800 0 0 5519900 0 4391400 0 0 0 0 4 4 4  
 18,1 18,1 18,1 31,82 0 3,2044 58672000 5 A0A5G2R815;A0A5G2QKM6;I3LRS8  
 A0A5G2R815;A0A5G2QKM6;I3LRS8 723 tr|A0A5G2R815|A0A5G2R815\_PIG  
 Phosphatidylinositol transfer protein alpha OS=Sus scrofa OX=9823 GN=PITPNA PE=1  
 SV=1;tr|A0A5G2QKM6|A0A5G2QKM6\_PIG Phosphatidylinositol transfer protein alpha OS=Sus  
 scrofa OX=9823 GN=PITPNA PE=1 SV=1;tr|I3LRS8|I3LRS8\_PIG Phosp  
 0 0 0 0 0 0 0 0 0 0 0 0 0 4 4 4 5,5 5,5 5,5  
 73,966 0 6,2288 32502000 6 A0A5G2R8A9;A0A287AYD0;F1S764  
 A0A5G2R8A9;A0A287AYD0;F1S764 724 tr|A0A5G2R8A9|A0A5G2R8A9\_PIG Carnitine  
 palmitoyltransferase 2 OS=Sus scrofa OX=9823 GN=CPT2 PE=1  
 SV=1;tr|A0A287AYD0|A0A287AYD0\_PIG Carnitine palmitoyltransferase 2 OS=Sus scrofa OX=9823  
 GN=CPT2 PE=1 SV=1;tr|F1S764|F1S764\_PIG Carnitine palmitoyltransferase  
 5662700 8405800 38308000 0 4368200 4231800 0 0 2139000 2669700 0 13966000  
 8 8 8 12,7 12,7 12,7 66,187 0 11,891 381280000 13  
 K9IVR7;A0A5G2R8D7;A0A5G2QAB3K9IVR7;A0A5G2R8D7 725 tr|K9IVR7|K9IVR7\_PIG  
 WD repeat domain 1 OS=Sus scrofa OX=9823 GN=WDR1 PE=2  
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 0 0 0 10517000 0 0 7708600 0 0 9155300 0 0 0 2 2 2  
 17,5 17,5 17,5 11,202 0 2,9182 89954000 5 A0A5G2R965 A0A5G2R965 726  
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 GN=LOC102167522 PE=1 SV=1  
 5734100 0 0 0 0 0 0 0 0 0 7292800 0 0 2 2 2 8,7  
 8,7 8,7 28,544 0 3,3034 71191000 13 A0A5G2R9C3;F1RJM2 A0A5G2R9C3;F1RJM2  
 728 tr|A0A5G2R9C3|A0A5G2R9C3\_PIG Endoplasmic reticulum resident protein 29 OS=Sus  
 scrofa OX=9823 GN=ERP29 PE=1 SV=1;tr|F1RJM2|F1RJM2\_PIG Endoplasmic reticulum resident  
 protein 29 OS=Sus scrofa OX=9823 GN=ERP29 PE=1 SV=2  
 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 13,7 13,7 13,7  
 10,606 0 9,5123 1490100000 13 A0A5G2R9F7 A0A5G2R9F7 729  
 tr|A0A5G2R9F7|A0A5G2R9F7\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
 GN=FKBP1A PE=1 SV=1

0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 3,5 3,5 3,5  
 31,111 0,0031546 1,9728 37345000 6 I3LIH2;A0A5G2R9X9 I3LIH2;A0A5G2R9X9  
 730 tr|I3LIH2|I3LIH2\_PIG Inositol-1-monophosphatase OS=Sus scrofa OX=9823 GN=IMPA2  
 PE=3 SV=3;tr|A0A5G2R9X9|A0A5G2R9X9\_PIG CIDE-N domain-containing protein OS=Sus scrofa  
 OX=9823 GN=IMPA2 PE=3 SV=1  
 108970000 74466000 42106000 14711000 64601000 7785600 94464000 31440000 56059000 67849000  
 32590000 6679000 12 12 12 37,1 37,1 37,1 40,927 0 63,348  
 243060000 74 F1RYS9;A0A5G2R9Y3 F1RYS9;A0A5G2R9Y3 731  
 tr|F1RYS9|F1RYS9\_PIG CBM20 domain-containing protein OS=Sus scrofa OX=9823 GN=STBD1  
 PE=1 SV=3;tr|A0A5G2R9Y3|A0A5G2R9Y3\_PIG CBM20 domain-containing protein OS=Sus scrofa  
 OX=9823 GN=STBD1 PE=1 SV=1  
 13793000 13064000 18333000 14510000 18636000 11225000 15067000 9946000 10339000 19434000  
 13910000 13694000 12 12 12 24,3 24,3 24,3 57,704 0 19,43  
 644350000 35 F1S3H1;A0A5G2RA17;A0A5G2RB26 F1S3H1;A0A5G2RA17;A0A5G2RB26  
 732 tr|F1S3H1|F1S3H1\_PIG Aldehyde dehydrogenase 6 family member A1 OS=Sus scrofa  
 OX=9823 GN=ALDH6A1 PE=1 SV=2;tr|A0A5G2RA17|A0A5G2RA17\_PIG Aldehyde dehydrogenase  
 6 family member A1 OS=Sus scrofa OX=9823 GN=ALDH6A1 PE=1  
 SV=1;tr|A0A5G2RB26|A0A5G2RB26\_PIG Aldehyd  
 0 0 15918000 0 25211000 0 0 0 0 12636000 0 14858000 2 2  
 2 10,8 10,8 10,8 16,74 0 3,213 200490000 12 A0A5G2RA78;A5GZW8;F1SMA9  
 A0A5G2RA78;A5GZW8;F1SMA9 733 tr|A0A5G2RA78|A0A5G2RA78\_PIG Succinate  
 dehydrogenase [ubiquinone] cytochrome b small subunit OS=Sus scrofa OX=9823 GN=SDHD PE=3  
 SV=1;sp|A5GZW8|DHSD\_PIG Succinate dehydrogenase [ubiquinone] cytochrome b small subunit,  
 mitochondrial OS=Sus scrofa OX=9823 GN=  
 6002200 7672400 6269900 10228000 9649000 8859700 7684900 11307000 9439900 0 9222900  
 8926200 5 5 5 11,2 11,2 11,2 59,473 0 12,581 235350000 26  
 D0G0C9;A0A5G2RAV7;A0A287AKF5;A0A5G2R1J8;A0A5G2RH19  
 D0G0C9;A0A5G2RAV7;A0A287AKF5;A0A5G2R1J8 735 tr|D0G0C9|D0G0C9\_PIG T-complex  
 protein 1 subunit eta OS=Sus scrofa OX=9823 GN=CCT7 PE=1  
 SV=1;tr|A0A5G2RAV7|A0A5G2RAV7\_PIG T-complex protein 1 subunit eta OS=Sus scrofa OX=9823  
 GN=CCT7 PE=1 SV=1;tr|A0A287AKF5|A0A287AKF5\_PIG 60 kDa chaperonin OS=Sus scrofa O  
 5703200 0 0 3884400 17663000 100580000 0 0 0 19935000 0 0  
 6 6 6 24,1 24,1 24,1 26,215 0 12,733 580450000 19 A0A5G2RB71;F1S1B2  
 A0A5G2RB71;F1S1B2 736 tr|A0A5G2RB71|A0A5G2RB71\_PIG Myelin peripheral protein  
 OS=Sus scrofa OX=9823 GN=MPZ PE=1 SV=1;tr|F1S1B2|F1S1B2\_PIG Myelin peripheral protein  
 OS=Sus scrofa OX=9823 GN=MPZ PE=1 SV=1  
 13069000 20831000 16105000 20121000 20161000 22357000 21342000 14675000 21392000 20628000  
 19978000 12438000 6 6 6 24,9 24,9 24,9 21,401 0 12,979  
 759780000 44 F1RLG5;A0A5G2RB75;A0A5G2QKS5;A0A5G2QY56;A0A5G2RDZ0  
 F1RLG5;A0A5G2RB75;A0A5G2QKS5;A0A5G2QY56737 tr|F1RLG5|F1RLG5\_PIG Receptor  
 expression-enhancing protein OS=Sus scrofa OX=9823 GN=REEP5 PE=1  
 SV=1;tr|A0A5G2RB75|A0A5G2RB75\_PIG Receptor expression-enhancing protein OS=Sus scrofa  
 OX=9823 GN=REEP5 PE=1 SV=1;tr|A0A5G2QKS5|A0A5G2QKS5\_PIG Receptor expression

0 0 0 0 0 0 0 0 0 0 0 0 2 1 1 4,2 2,4 2,4  
 42,936 0 3,0412 1234800000 16 F1SGG1;A0A5G2RBD3 F1SGG1;A0A5G2RBD3 738  
 tr|F1SGG1|F1SGG1\_PIG Keratin 18 OS=Sus scrofa OX=9823 GN=KRT18 PE=1  
 SV=4;tr|A0A5G2RBD3|A0A5G2RBD3\_PIG Keratin 18 OS=Sus scrofa OX=9823 GN=KRT18 PE=1  
 SV=1  
 42762000 44241000 32735000 38893000 33398000 29407000 69279000 31132000 28624000 46767000  
 40061000 30537000 20 20 20 33,4 33,4 33,4 72,116 0 158,71  
 4204000000 169 A0A5G2RBI3;F1S0V3;A0A5G2QF50;A0A5G2R829;A0A5G2QT71  
 A0A5G2RBI3;F1S0V3;A0A5G2QF50;A0A5G2R829 739 tr|A0A5G2RBI3|A0A5G2RBI3\_PIG  
 Annexin OS=Sus scrofa OX=9823 GN=ANXA6 PE=1 SV=1;tr|F1S0V3|F1S0V3\_PIG Annexin OS=Sus  
 scrofa OX=9823 GN=ANXA6 PE=1 SV=4;tr|A0A5G2QF50|A0A5G2QF50\_PIG Annexin OS=Sus  
 scrofa OX=9823 GN=ANXA6 PE=1 SV=1;tr|A0A5G2R829|A0A5G2R829\_PIG A  
 18265000 29736000 95229000 32480000 69578000 90004000 20873000 39951000 67569000 27822000  
 72898000 153300000 20 20 20 27,7 27,7 27,7 83,106 0 121,13  
 6651800000 194 Q29554;A0A5G2RBW4;A0A5G2R3M6  
 Q29554;A0A5G2RBW4;A0A5G2R3M6 740 sp|Q29554|ECHA\_PIG Trifunctional enzyme  
 subunit alpha, mitochondrial OS=Sus scrofa OX=9823 GN=HADHA PE=2  
 SV=1;tr|A0A5G2RBW4|A0A5G2RBW4\_PIG Enoyl-CoA hydratase OS=Sus scrofa OX=9823  
 GN=HADHA PE=1 SV=1;tr|A0A5G2R3M6|A0A5G2R3M6\_PIG Enoyl-CoA hydratase OS=Sus  
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 5,1 5,1 5,1  
 25,079 0 4,5237 68582000 3 A0A5G2RC36;F1S0B9 A0A5G2RC36;F1S0B9 741  
 tr|A0A5G2RC36|A0A5G2RC36\_PIG Eukaryotic translation initiation factor 4E OS=Sus scrofa  
 OX=9823 GN=EIF4E PE=1 SV=1;tr|F1S0B9|F1S0B9\_PIG Eukaryotic translation initiation factor 4E  
 OS=Sus scrofa OX=9823 GN=EIF4E PE=1 SV=2  
 143560000 115880000 124690000 136130000 138380000 94169000 160270000  
 134670000 140300000 195240000 162110000 111730000 81 81  
 81 54,9 54,9 54,9 173,34 0 323,31 36544000000 1127  
 A0A5G2RCH7;A0A5K1VE56;A0A480KXA1;F1SM75;A0A5G2QUK3  
 A0A5G2RCH7;A0A5K1VE56;A0A480KXA1;F1SM75;A0A5G2QUK3 742  
 tr|A0A5G2RCH7|A0A5G2RCH7\_PIG Myomesin 1 OS=Sus scrofa OX=9823 GN=MYOM1 PE=1  
 SV=1;tr|A0A5K1VE56|A0A5K1VE56\_PIG Myomesin 1 OS=Sus scrofa OX=9823 GN=MYOM1 PE=1  
 SV=1;tr|A0A480KXA1|A0A480KXA1\_PIG Myomesin 1 OS=Sus scrofa OX=9823 GN=MYOM1 PE=1  
 SV=1;tr|F1SM75|F1S  
 0 0 0 0 0 0 0 0 0 0 0 0 2 1 1 9,7 5,6 5,6  
 29,305 0 5,2539 28528000 7 A0A5G2RD82;F1SHD6;P29412  
 A0A5G2RD82;F1SHD6;P29412 743 tr|A0A5G2RD82|A0A5G2RD82\_PIG Elongation factor 1-  
 beta OS=Sus scrofa OX=9823 GN=EEF1B2 PE=1 SV=1;tr|F1SHD6|F1SHD6\_PIG Elongation factor 1-  
 beta OS=Sus scrofa OX=9823 GN=EEF1B2 PE=1 SV=1;sp|P29412|EF1B\_PIG Elongation factor 1-beta  
 OS=Sus scrofa OX=9823 GN=EEF  
 15483000 9303600 28176000 28753000 20193000 24502000 22700000 0 24850000 32410000 29296000  
 51375000 3 3 3 21,2 21,2 21,2 15,614 0 12,586 512870000 25  
 A0A5G2REA1;F1SGC6 A0A5G2REA1;F1SGC6 744 tr|A0A5G2REA1|A0A5G2REA1\_PIG

Complex I-SGDH OS=Sus scrofa OX=9823 GN=NDUFB5 PE=1 SV=1;tr|F1SGC6|F1SGC6\_PIG  
Complex I-SGDH OS=Sus scrofa OX=9823 GN=NDUFB5 PE=1 SV=1

0 0 3538800 0 0 3121000 0 0 5930400 0 0 0 2 2 2  
17,2 17,2 17,2 12,965 0,0022472 2,5083 42125000 4 F1RPU8;A0A5G2REE1

F1RPU8;A0A5G2REE1 745 tr|F1RPU8|F1RPU8\_PIG Mitochondrial pyruvate carrier OS=Sus  
scrofa OX=9823 GN=MPC2 PE=1 SV=4;tr|A0A5G2REE1|A0A5G2REE1\_PIG Mitochondrial pyruvate  
carrier OS=Sus scrofa OX=9823 GN=MPC2 PE=1 SV=1

165270000 74191000 46746000 147030000 78249000 90394000 224430000 43908000 73390000  
206830000 71208000 49741000 4 4 4 20,4 20,4 20,4 25,245 0  
26,07 191870000 56

A0A5G2REF2;A0A287B6M7;A0A5G2QM14;F1RT90;A0A287B2T8;I3LIP6;A0A287AI01;A0A287  
AT82 A0A5G2REF2 746 tr|A0A5G2REF2|A0A5G2REF2\_PIG Aspartate beta-hydroxylase  
OS=Sus scrofa OX=9823 GN=ASPH PE=1 SV=1

0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 3,5 3,5 3,5  
62,644 0 3,6473 0 2 F1SCM9;I3LAS2;A0A5G2REI4

F1SCM9;I3LAS2;A0A5G2REI4 747 tr|F1SCM9|F1SCM9\_PIG Thyroid hormone receptor  
interactor 10 OS=Sus scrofa OX=9823 GN=TRIP10 PE=1 SV=2;tr|I3LAS2|I3LAS2\_PIG Cdc42-  
interacting protein 4 isoform 1 OS=Sus scrofa OX=9823 GN=TRIP10 PE=1  
SV=3;tr|A0A5G2REI4|A0A5G2REI4\_PIG Thyroid hormone receptor

64566000 69782000 114470000 120380000 148260000 140960000 75572000 104720000  
130830000 122120000 155470000 208620000 13 13 13 38,2 38,2  
38,2 47,346 0 182,75 716560000 184 A0A5G2REY8;F1RPD2 A0A5G2REY8;F1RPD2

748 tr|A0A5G2REY8|A0A5G2REY8\_PIG Ubiquinol-cytochrome c reductase core protein 2  
OS=Sus scrofa OX=9823 GN=UQCRC2 PE=1 SV=1;tr|F1RPD2|F1RPD2\_PIG Cytochrome b-c1  
complex subunit 2, mitochondrial OS=Sus scrofa OX=9823 GN=UQCRC2 PE=1 SV=3

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 10,8 10,8 10,8  
14,714 0,0032017 2,0877 11157000 3 A0A5G2RF87;F1S108 A0A5G2RF87;F1S108

749 tr|A0A5G2RF87|A0A5G2RF87\_PIG CDGSH iron sulfur domain 2 OS=Sus scrofa OX=9823  
GN=CISD2 PE=1 SV=1;tr|F1S108|F1S108\_PIG CDGSH iron sulfur domain 2 OS=Sus scrofa OX=9823  
GN=CISD2 PE=1 SV=2

282610000 232420000 519810000 811610000 455610000 504880000 689170000  
272980000 502040000 909470000 438360000 720710000 16 16  
16 55,3 55,3 55,3 35,484 0 221,79 42626000000 643 P00346;A0A5G2RGL7;I3LP41

P00346;A0A5G2RGL7;I3LP41 750 sp|P00346|MDHM\_PIG Malate dehydrogenase,  
mitochondrial OS=Sus scrofa OX=9823 GN=MDH2 PE=1 SV=2;tr|A0A5G2RGL7|A0A5G2RGL7\_PIG  
Malate dehydrogenase OS=Sus scrofa OX=9823 GN=MDH2 PE=3 SV=1;tr|I3LP41|I3LP41\_PIG  
Malate dehydrogenase OS=Sus scrofa OX=9823 GN=MDH2

0 0 2615100 0 0 5463200 0 0 0 0 0 5134000 3 3 3  
3,8 3,8 3,8 79,456 0 2,8726 43682000 7

A0A5G2RH47;F1RU52;I3LGH6;A0A5G2RLJ6 A0A5G2RH47;F1RU52;I3LGH6;A0A5G2RLJ6

751 tr|A0A5G2RH47|A0A5G2RH47\_PIG Dipeptidyl peptidase 3 OS=Sus scrofa OX=9823  
GN=DPP3 PE=1 SV=1;tr|F1RU52|F1RU52\_PIG Dipeptidyl peptidase 3 OS=Sus scrofa OX=9823

GN=DPP3 PE=1 SV=1;tr|I3LGH6|I3LGH6\_PIG Dipeptidyl peptidase 3 OS=Sus scrofa OX=9823  
GN=DPP3 PE=1 S

19729000 22251000 18396000 0 21177000 14597000 13625000 10921000 24107000 19896000 10498000  
14633000 10 10 10 29,4 29,4 29,4 43,266 0 43,516 703110000 47

A0A5G2RHM3;A0A5G2RH83;F1S062;A0A5G2RAQ9

A0A5G2RHM3;A0A5G2RH83;F1S062;A0A5G2RAQ9 752

tr|A0A5G2RHM3|A0A5G2RHM3\_PIG Obg-like ATPase 1 OS=Sus scrofa OX=9823 GN=OLA1  
PE=1 SV=1;tr|A0A5G2RH83|A0A5G2RH83\_PIG Obg-like ATPase 1 OS=Sus scrofa OX=9823  
GN=OLA1 PE=1 SV=1;tr|F1S062|F1S062\_PIG Obg like ATPase 1 OS=Sus scrofa OX=9823 GN=OLA1  
PE=1 SV=4;tr|

9851800 5048900 0 0 0 0 4003000 0 0 0 0 0 3 3 3  
3,4 3,4 3,4 126,71 0 3,5122 91146000 5 A0A5G2RIC0;F1RP44

A0A5G2RIC0;F1RP44 753 tr|A0A5G2RIC0|A0A5G2RIC0\_PIG Importin 5 OS=Sus scrofa  
OX=9823 GN=IPO5 PE=1 SV=1;tr|F1RP44|F1RP44\_PIG Importin 5 OS=Sus scrofa OX=9823 GN=IPO5  
PE=1 SV=3

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 6,4 6,4 6,4  
18,955 0,0031348 1,9393 38146000 1 I3L8J2;A0A5G2RJ56 I3L8J2;A0A5G2RJ56

754 tr|I3L8J2|I3L8J2\_PIG Galectin OS=Sus scrofa OX=9823 GN=LGALSL PE=1  
SV=1;tr|A0A5G2RJ56|A0A5G2RJ56\_PIG Galectin OS=Sus scrofa OX=9823 GN=LGALSL PE=1 SV=1  
5863100 0 5076800 0 0 0 5806200 0 4569300 4542200 0 0 2

2 2 6,8 6,8 6,8 40,184 0 4,7092 73387000 8

A0A5G2RKS0;A0A5S6HA01;A7Y521;A0A287AXL6

A0A5G2RKS0;A0A5S6HA01;A7Y521;A0A287AXL6 755 tr|A0A5G2RKS0|A0A5G2RKS0\_PIG  
COP9 signalosome complex subunit 4 OS=Sus scrofa OX=9823 GN=COPS4 PE=1  
SV=1;tr|A0A5S6HA01|A0A5S6HA01\_PIG COP9 signalosome complex subunit 4 OS=Sus scrofa  
OX=9823 GN=COPS4 PE=1 SV=1;sp|A7Y521|CSN4\_PIG COP9 signalosome complex su

0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 32,1 32,1 32,1  
17,936 0 8,8618 69402000 7 A0A5G2RL03;F1S7V6;A0A5G2R2Q9

A0A5G2RL03;F1S7V6;A0A5G2R2Q9 756 tr|A0A5G2RL03|A0A5G2RL03\_PIG Protein  
phosphatase 1 regulatory inhibitor subunit 14C OS=Sus scrofa OX=9823 GN=PPP1R14C PE=1  
SV=1;tr|F1S7V6|F1S7V6\_PIG Protein phosphatase 1 regulatory inhibitor subunit 14C OS=Sus scrofa  
OX=9823 GN=PPP1R14C PE=1 SV=2;tr|A0A5G

0 0 0 0 0 0 0 0 0 0 0 0 13 1 1 36,2 2,2 2,2  
40,743 0 3,0771 153020000 26 A0A5K1U1D3 A0A5K1U1D3 757

tr|A0A5K1U1D3|A0A5K1U1D3\_PIG Four and a half LIM domains 1 OS=Sus scrofa OX=9823  
GN=FHL1 PE=1 SV=1

8182200 15798000 18216000 0 7067800 0 5812300 4573100 3054000 0 3492400 0  
8 8 8 8,9 8,9 8,9 113,71 0 39,481 328060000 22

A0A5K1U589;A0A5G2QCS5;A0A287A3T5A0A5K1U589;A0A5G2QCS5;A0A287A3T5758

tr|A0A5K1U589|A0A5K1U589\_PIG Ubiquitin-activating enzyme E1 OS=Sus scrofa OX=9823  
GN=UBA1 PE=1 SV=1;tr|A0A5G2QCS5|A0A5G2QCS5\_PIG Ubiquitin-activating enzyme E1 OS=Sus  
scrofa OX=9823 GN=LOC110257910 PE=1 SV=1;tr|A0A287A3T5|A0A287A3T5\_PIG Ubiquitin-  
activatin

111400000 116500000 83415000 162470000 90351000 98307000 169590000 86066000  
 114450000 158120000 90015000 83688000 4 4 1 19,3 19,3 4,1  
 22,226 0 24,129 3779700000 87 A0A5K1U735 A0A5K1U735 759  
 tr|A0A5K1U735|A0A5K1U735\_PIG Reticulon OS=Sus scrofa OX=9823 GN=RTN4 PE=1 SV=1  
 0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 10,5 10,5 10,5  
 37,536 0 5,2611 39137000 5 A0A5K1UKA4;F1RV28 A0A5K1UKA4;F1RV28 760  
 tr|A0A5K1UKA4|A0A5K1UKA4\_PIG Mitogen-activated protein kinase kinase 6 OS=Sus scrofa  
 OX=9823 GN=MAP2K6 PE=1 SV=1;tr|F1RV28|F1RV28\_PIG Mitogen-activated protein kinase kinase  
 6 OS=Sus scrofa OX=9823 GN=MAP2K6 PE=1 SV=2  
 10589000 0 8988200 12062000 0 0 11712000 0 15018000 0 8902700  
 3 3 3 13,1 13,1 13,1 32,117 0 6,9223 144980000 17 B8Y4S5;A0A5K1VFF8  
 B8Y4S5;A0A5K1VFF8 761 tr|B8Y4S5|B8Y4S5\_PIG Sarcoglycan delta OS=Sus scrofa OX=9823  
 GN=SGCD PE=1 SV=1;tr|A0A5K1VFF8|A0A5K1VFF8\_PIG Sarcoglycan delta OS=Sus scrofa  
 OX=9823 GN=SGCD PE=1 SV=1  
 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 10,8 10,8 10,8  
 19,835 0,0022396 2,4795 32441000 9 A0A5K1VIT7;I3LQ80 A0A5K1VIT7;I3LQ80  
 762 tr|A0A5K1VIT7|A0A5K1VIT7\_PIG Vitamin-K-epoxide reductase (warfarin-sensitive)  
 OS=Sus scrofa OX=9823 GN=VKORC1L1 PE=1 SV=1;tr|I3LQ80|I3LQ80\_PIG Vitamin-K-epoxide  
 reductase (warfarin-sensitive) OS=Sus scrofa OX=9823 GN=VKORC1L1 PE=1 SV=3  
 10572000 16216000 10299000 16388000 11692000 9771400 19481000 7543300 10178000 11995000  
 10876000 10581000 7 7 7 9,2 9,2 9,2 81,738 0 13,614  
 522190000 45 P35750;A0A5S6GBZ7;A0A5S6H4P7;A0A5G2QYC6  
 P35750;A0A5S6GBZ7;A0A5S6H4P7;A0A5G2QYC6 763 sp|P35750|CAN1\_PIG Calpain-1  
 catalytic subunit OS=Sus scrofa OX=9823 GN=CAPN1 PE=2  
 SV=3;tr|A0A5S6GBZ7|A0A5S6GBZ7\_PIG Calcium-activated neutral proteinase 1 OS=Sus scrofa  
 OX=9823 GN=CAPN1 PE=1 SV=1;tr|A0A5S6H4P7|A0A5S6H4P7\_PIG Calcium-activated neutral  
 prot  
 35901000 38341000 33256000 0 36507000 13960000 26370000 30967000 35288000 46607000 23458000  
 7254500 3 3 3 18,1 18,1 18,1 21,155 0 11,891 672520000 43  
 A0A5S6GER6;Q5PYH3;A0A5S6G7K0;Q52NJ3 A0A5S6GER6;Q5PYH3 764  
 tr|A0A5S6GER6|A0A5S6GER6\_PIG GTP-binding protein SAR1b OS=Sus scrofa OX=9823  
 GN=SAR1B PE=1 SV=1;sp|Q5PYH3|SAR1B\_PIG GTP-binding protein SAR1b OS=Sus scrofa  
 OX=9823 GN=SAR1B PE=2 SV=1  
 34724000 23862000 13527000 26646000 20530000 16879000 30710000 15049000 13207000 28347000  
 20003000 20309000 4 4 4 16,9 16,9 16,9 28,068 0 11,572  
 717860000 29 P04574;A0A5S6GT88;A0A5G2RH51 P04574;A0A5S6GT88 765  
 sp|P04574|CPNS1\_PIG Calpain small subunit 1 OS=Sus scrofa OX=9823 GN=CAPNS1 PE=1  
 SV=1;tr|A0A5S6GT88|A0A5S6GT88\_PIG Calcium-activated neutral proteinase small subunit  
 OS=Sus scrofa OX=9823 GN=CAPNS1 PE=4 SV=1  
 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 3 3 3  
 86,121 0 3,5251 5375500 2 Q8HZV3;A0A5S6GXI4 Q8HZV3;A0A5S6GXI4 766  
 sp|Q8HZV3|TFR1\_PIG Transferrin receptor protein 1 OS=Sus scrofa OX=9823 GN=TFRC PE=2

SV=1;tr|A0A5S6GXI4|A0A5S6GXI4\_PIG Transferrin receptor protein 1 OS=Sus scrofa OX=9823  
GN=TFRC PE=1 SV=1  
36048000 0 71828000 100840000 84735000 66873000 87440000 46662000 60744000 91776000  
81479000 128180000 6 6 6 15,5 15,5 15,5 33,02 0 16,947  
221930000 69 A0A5S6HDE4;P00348;A0A5G2QZU9;A0A2C9F3C3  
A0A5S6HDE4;P00348;A0A5G2QZU9;A0A2C9F3C3 767 tr|A0A5S6HDE4|A0A5S6HDE4\_PIG  
Hydroxyacyl-coenzyme A dehydrogenase, mitochondrial OS=Sus scrofa OX=9823 GN=HADH PE=1  
SV=1;sp|P00348|HCDH\_PIG Hydroxyacyl-coenzyme A dehydrogenase, mitochondrial OS=Sus  
scrofa OX=9823 GN=HADH PE=1 SV=2;tr|A0A5G2QZU9|A0A5G2QZU9  
48634000 47646000 384470000 28891000 161260000 342910000 32150000 61610000  
136550000 36602000 162600000 556150000 36 24 21 34,8 22,7 19,1  
110,59 0 276,94 18759000000 398 A0A5S6HSJ6;A0A5S6HET4;P11607  
A0A5S6HSJ6;A0A5S6HET4;P11607 768 tr|A0A5S6HSJ6|A0A5S6HSJ6\_PIG Calcium-  
transporting ATPase OS=Sus scrofa OX=9823 GN=ATP2A2 PE=1  
SV=1;tr|A0A5S6HET4|A0A5S6HET4\_PIG Calcium-transporting ATPase OS=Sus scrofa OX=9823  
GN=ATP2A2 PE=1 SV=1;sp|P11607|AT2A2\_PIG Sarcoplasmic/endoplasmic reticulum cal  
47175000 9967500 25917000 37124000 8495500 60329000 44031000 7735500 16554000 37503000  
13268000 36551000 14 14 14 39,3 39,3 39,3 39,1 0 56,375 1573700000  
79 A0A5S6HM44;Q8SPS7;A0A2C9F356 A0A5S6HM44;Q8SPS7;A0A2C9F356 769  
tr|A0A5S6HM44|A0A5S6HM44\_PIG Haptoglobin OS=Sus scrofa OX=9823 GN=HP PE=3  
SV=1;sp|Q8SPS7|HPT\_PIG Haptoglobin OS=Sus scrofa OX=9823 GN=HP PE=1  
SV=1;tr|A0A2C9F356|A0A2C9F356\_PIG Haptoglobin OS=Sus scrofa OX=9823 GN=HP PE=4 SV=2  
6254500 9470800 11998000 0 7015600 0 0 0 4165100 0 0 6145200  
6 6 6 20 20 20 49,023 0 13,169 130230000 18  
P10775;A0A5S6IIV1;A0A5S6HM99;A0A5S6HMU1  
P10775;A0A5S6IIV1;A0A5S6HM99;A0A5S6HMU1 770 sp|P10775|RINI\_PIG Ribonuclease  
inhibitor OS=Sus scrofa OX=9823 GN=RNH1 PE=1 SV=1;tr|A0A5S6IIV1|A0A5S6IIV1\_PIG  
Ribonuclease inhibitor OS=Sus scrofa OX=9823 GN=RNH1 PE=4  
SV=1;tr|A0A5S6HM99|A0A5S6HM99\_PIG Ribonuclease inhibitor OS=Sus scrofa OX=9823  
GN=RNH1  
13892000 11610000 15840000 14505000 13984000 20627000 14018000 0 16513000 20838000 13339000  
20515000 4 4 4 17,8 17,8 17,8 35,158 0 18,847 456890000 41  
P05027;A0A5S6HMA0 P05027;A0A5S6HMA0 771 sp|P05027|AT1B1\_PIG  
Sodium/potassium-transporting ATPase subunit beta-1 OS=Sus scrofa OX=9823 GN=ATP1B1 PE=1  
SV=2;tr|A0A5S6HMA0|A0A5S6HMA0\_PIG Sodium/potassium-transporting ATPase subunit beta  
OS=Sus scrofa OX=9823 GN=ATP1B1 PE=1 SV=1  
16450000 17722000 9945900 13394000 0 6427300 11654000 31105000 22380000 32426000 0  
10055000 4 4 4 47,7 47,7 47,7 9,3457 0 38,65 303710000 19  
Q0MUU2;A0A5S6HUN0 Q0MUU2;A0A5S6HUN0 772 sp|Q0MUU2|SMPX\_PIG Small  
muscular protein OS=Sus scrofa OX=9823 GN=SMPX PE=2  
SV=1;tr|A0A5S6HUN0|A0A5S6HUN0\_PIG Small muscular protein OS=Sus scrofa OX=9823  
GN=SMPX PE=3 SV=1

0 108610000 59836000 173700000 87355000 61589000 193090000 192240000  
 105580000 75120000 83486000 70777000 4 4 4 48,3 48,3 48,3 9,8962  
 0 6,9764 178550000 20 P12026;A0A5S6I0G9 P12026;A0A5S6I0G9 773  
 sp|P12026|ACBP\_PIG Acyl-CoA-binding protein OS=Sus scrofa OX=9823 GN=DBI PE=1  
 SV=2;tr|A0A5S6I0G9|A0A5S6I0G9\_PIG Acyl-CoA-binding protein OS=Sus scrofa OX=9823 GN=DBI  
 PE=4 SV=1  
 14106000 10987000 13226000 8852600 10892000 7100200 16051000 6146800 7709400 12249000  
 7224200 10670000 4 4 2 12,5 12,5 6,6 34,448 0 9,6583  
 353030000 29  
 A0A5S8KL32;P61292;A0A5S6I1J4;A0A5G2R6F8;A0A5G2QYQ0;A0A5G2QI00  
 A0A5S8KL32;P61292;A0A5S6I1J4;A0A5G2R6F8;A0A5G2QYQ0;A0A5G2QI00 774  
 tr|A0A5S8KL32|A0A5S8KL32\_PIG Serine/threonine-protein phosphatase OS=Sus scrofa  
 OX=9823 GN=PPP1CB PE=1 SV=1;sp|P61292|PP1B\_PIG Serine/threonine-protein phosphatase PP1-  
 beta catalytic subunit OS=Sus scrofa OX=9823 GN=PPP1CB PE=1 SV=3;tr|A0A5S6I1J4|A0A5S6I1J  
 85580000 47988000 113420000 125460000 61678000 137780000 110570000 47084000  
 88625000 130140000 59574000 107700000 3 3 3 36,5 36,5 36,5  
 9,557 0 17,803 216560000 34  
 A0A5S6I2J5;P82460;A0A2C9F3A7;A0A5G2Q9S8;A0A5G2QTF5  
 A0A5S6I2J5;P82460;A0A2C9F3A7;A0A5G2Q9S8 775 tr|A0A5S6I2J5|A0A5S6I2J5\_PIG  
 Thioredoxin OS=Sus scrofa OX=9823 GN=TXN PE=4 SV=1;sp|P82460|THIO\_PIG Thioredoxin  
 OS=Sus scrofa OX=9823 GN=TXN PE=1 SV=3;tr|A0A2C9F3A7|A0A2C9F3A7\_PIG Thioredoxin  
 OS=Sus scrofa OX=9823 GN=TXN PE=3 SV=2;tr|A0A5G2Q9S8|A0A5G2Q9S8\_P  
 19903000 20470000 13445000 23561000 14821000 17727000 32084000 15287000 16799000 26833000  
 19218000 19130000 3 3 3 13,4 13,4 13,4 23,197 0 5,7988  
 367660000 38 A0A5S6I5L2;Q56P28;A0A5G2QS88 A0A5S6I5L2;Q56P28;A0A5G2QS88  
 776 tr|A0A5S6I5L2|A0A5S6I5L2\_PIG PRA1 family protein OS=Sus scrofa OX=9823  
 GN=ARL6IP5 PE=1 SV=1;sp|Q56P28|PRAF3\_PIG PRA1 family protein 3 OS=Sus scrofa OX=9823  
 GN=ARL6IP5 PE=2 SV=1;tr|A0A5G2QS88|A0A5G2QS88\_PIG PRA1 family protein OS=Sus scrofa  
 OX=9823 GN=ARL6I  
 29709000 36170000 35982000 25546000 35377000 38404000 31159000 25738000 32615000 35108000  
 31990000 31953000 4 4 4 19,8 19,8 19,8 29,813 0 6,8498  
 654580000 12 A0A5S6IDI6;Q9GJT2;A0A5G2QPR4 A0A5S6IDI6;Q9GJT2;A0A5G2QPR4  
 777 tr|A0A5S6IDI6|A0A5S6IDI6\_PIG S-formylglutathione hydrolase OS=Sus scrofa OX=9823  
 GN=ESD PE=1 SV=1;sp|Q9GJT2|ESTD\_PIG S-formylglutathione hydrolase OS=Sus scrofa OX=9823  
 GN=ESD PE=2 SV=1;tr|A0A5G2QPR4|A0A5G2QPR4\_PIG S-formylglutathione hydrolase OS=Sus  
 scro  
 27567000 38834000 62657000 37532000 70104000 58355000 24563000 43773000 41807000 38681000  
 63521000 83752000 16 16 16 39,1 39,1 39,1 49,97 0 62,512  
 391700000 142 A0A5S8M9X9;P10173;I3LPP1;A0A286ZIY0  
 A0A5S8M9X9;P10173;I3LPP1;A0A286ZIY0 778 tr|A0A5S8M9X9|A0A5S8M9X9\_PIG  
 Fumarate hydratase, mitochondrial OS=Sus scrofa OX=9823 GN=FH PE=3  
 SV=1;sp|P10173|FUMH\_PIG Fumarate hydratase, mitochondrial OS=Sus scrofa OX=9823 GN=FH  
 PE=1 SV=2;tr|I3LPP1|I3LPP1\_PIG Fumarate hydratase, mitochondrial OS=Sus sc



9049300 7846500 10674000 6707400 8389800 11008000 8899800 0 8001400 0 9997900  
 19040000 4 4 4 30,5 30,5 30,5 13,338 0 7,5938 262350000 20  
 F1SBU8;A1XQR7 F1SBU8;A1XQR7 779 tr|F1SBU8|F1SBU8\_PIG MICOS complex subunit  
 MIC13 OS=Sus scrofa OX=9823 GN=MICOS13 PE=1 SV=1;sp|A1XQR7|MIC13\_PIG MICOS complex  
 subunit MIC13 OS=Sus scrofa OX=9823 GN=MICOS13 PE=3 SV=1  
 85657000 54939000 149110000 194860000 153960000 154180000 156230000 67557000  
 122440000 218300000 152170000 261700000 5 5 5 59,2 59,2  
 59,2 8,8001 0 19,314 671340000 130 A1XQT2 A1XQT2 780  
 sp|A1XQT2|COX6C\_PIG Cytochrome c oxidase subunit 6C OS=Sus scrofa OX=9823  
 GN=COX6C PE=3 SV=1  
 38347000 58149000 28490000 15765000 18187000 27025000 16264000 32797000 45581000 18086000  
 27932000 28547000 15 15 1 37,4 37,4 2,8 50,098 0 85,928  
 177400000 96 A4Z6H0 A4Z6H0 781 sp|A4Z6H0|PURA1\_PIG Adenylosuccinate  
 synthetase isozyme 1 OS=Sus scrofa OX=9823 GN=ADSS1 PE=2 SV=1  
 5804700 8386800 13698000 0 7819700 7714200 0 0 9147700 0 6897800 6890600  
 4 4 4 4 4 4 107,47 0 4,5971 245380000 14  
 A5GFU0;A5GFT9;P29797;A5GFU7;A5GFU5;A0A5G2QYC4;Q06AS6;I3LRX8;I3LK93;K7GQA7;  
 A0A5G2QDJ3;F1SB90;Q06AS8;A0A287B6X9;A0A287A9G3;F1S603;A0A287BRP2;A0A5G2R5X2;F1S  
 B91 A5GFU0;A5GFT9;P29797;A5GFU7;A5GFU5;A0A5G2QYC4 782 tr|A5GFU0|A5GFU0\_PIG  
 GNAS complex locus OS=Sus scrofa OX=9823 GN=GNAS PE=1 SV=1;tr|A5GFT9|A5GFT9\_PIG  
 GNAS complex locus OS=Sus scrofa OX=9823 GN=GNAS PE=1 SV=1;sp|P29797|GNAS\_PIG  
 Guanine nucleotide-binding protein G(s) subunit alpha OS=Sus scrofa OX=9823 G  
 3667300000 4495300000 1460400000 4277300000 3578300000 2008600000 4188200000  
 3636900000 2231200000 3024200000 3574600000 1099900000 18 18  
 14 55,7 55,7 43,5 28,677 0 221,08 142860000000 1359B5KJG2 B5KJG2 783  
 tr|B5KJG2|B5KJG2\_PIG Phosphoglycerate mutase OS=Sus scrofa OX=9823 GN=PGAM2 PE=1  
 SV=1  
 8544400 6268000 6344000 7440800 7067600 10437000 8742100 0 6460900 7666000 6533900  
 6909200 5 5 5 21,2 21,2 21,2 25,206 0 9,9935 300820000 20  
 B6E241;A0A5G2QN78;A0A5G2QG04 B6E241;A0A5G2QN78 784 tr|B6E241|B6E241\_PIG  
 Growth factor receptor bound protein 2 OS=Sus scrofa OX=9823 GN=GRB2 PE=1  
 SV=1;tr|A0A5G2QN78|A0A5G2QN78\_PIG Growth factor receptor bound protein 2 OS=Sus scrofa  
 OX=9823 GN=GRB2 PE=1 SV=1  
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 4,4 4,4 4,4  
 31,284 0,0087125 1,4249 0 1 C5H0C6 C5H0C6 785 tr|C5H0C6|C5H0C6\_PIG  
 Ubiquitin thioesterase OS=Sus scrofa OX=9823 GN=OTUB1 PE=1 SV=1  
 0 0 13886000 0 0 0 0 0 0 0 28597000 5 5 5 13,1  
 13,1 13,1 42,048 0 7,1344 129410000 9 F6PZX4;D0G0B3;A0A286ZXB9  
 F6PZX4;D0G0B3;A0A286ZXB9 802 tr|F6PZX4|F6PZX4\_PIG Acetyl-CoA acyltransferase 2  
 OS=Sus scrofa OX=9823 GN=ACAA2 PE=1 SV=2;tr|D0G0B3|D0G0B3\_PIG 3-ketoacyl-CoA thiolase,  
 mitochondrial OS=Sus scrofa OX=9823 GN=ACAA2 PE=1 SV=1;tr|A0A286ZXB9|A0A286ZXB9\_PIG  
 Acetyl-CoA acyltransferase 2 OS=Sus

11157000 5812500 0 0 6412100 6343600 9894600 0 0 8084700 0 0  
 4 4 4 23,7 23,7 23,7 22,16 0 39,458 134340000 17 F1REW9 F1REW9 803  
 tr|F1REW9|F1REW9\_PIG Density-regulated protein OS=Sus scrofa OX=9823 GN=DENR PE=1  
 SV=3  
 0 0 18984000 33202000 24916000 0 24432000 0 0 31933000 0 0 2  
 2 2 43,1 43,1 43,1 6,4255 0 42,318 368470000 18 F1RFD4 F1RFD4 804  
 tr|F1RFD4|F1RFD4\_PIG ATP synthase membrane subunit DAPIT OS=Sus scrofa OX=9823  
 GN=ATP5MK PE=1 SV=1  
 1688800000 2119100000 1511700000 634940000 1476900000 1897800000 626310000  
 1524800000 1713200000 858010000 1349500000 924140000 46 46  
 29 44,5 44,5 28,3 110,1 0 323,31 225370000000 2490  
 F1RFH9;A0A287APK5;A0A5G2R940;A0A287AL21  
 F1RFH9;A0A287APK5;A0A5G2R940;A0A287AL21 805 tr|F1RFH9|F1RFH9\_PIG Calcium-  
 transporting ATPase OS=Sus scrofa OX=9823 GN=ATP2A1 PE=1  
 SV=3;tr|A0A287APK5|A0A287APK5\_PIG Calcium-transporting ATPase OS=Sus scrofa OX=9823  
 GN=ATP2A1 PE=1 SV=2;tr|A0A5G2R940|A0A5G2R940\_PIG Calcium-transporting ATPase OS=Sus  
 sc  
 5077500 6159300 23285000 0 0 0 0 0 0 0 0 0 3 3 3  
 5,8 5,8 5,8 61,398 0 8,1853 67484000 5 F1RFI1 F1RFI1 806  
 tr|F1RFI1|F1RFI1\_PIG Elongation factor Tu OS=Sus scrofa OX=9823 GN=TUFM PE=1 SV=2  
 25573000 17526000 16827000 32942000 22886000 23658000 38738000 18015000 14822000 22270000  
 20576000 18905000 3 3 3 12,9 12,9 12,9 25,692 0 6,3962  
 533380000 23 F1RFV5;A0A5G2R4Y9 F1RFV5 807 tr|F1RFV5|F1RFV5\_PIG Proteasome  
 subunit beta OS=Sus scrofa OX=9823 GN=PSMB6 PE=1 SV=2  
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 7,1 7,1 7,1  
 19,077 0 3,0319 445800000 3 F1RG17 F1RG17 808 tr|F1RG17|F1RG17\_PIG  
 Nucleoside diphosphate kinase OS=Sus scrofa OX=9823 GN=NME3 PE=1 SV=3  
 28616000 15206000 45626000 42014000 35941000 44957000 38131000 24188000 42193000 57363000  
 41472000 80305000 6 6 6 50,5 50,5 50,5 11,082 0 31,7 1285100000  
 79 F1RGE3;A0A5G2R7U7;A0A5G2QV68 F1RGE3;A0A5G2R7U7;A0A5G2QV68 809  
 tr|F1RGE3|F1RGE3\_PIG NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 2  
 OS=Sus scrofa OX=9823 GN=NDUFA2 PE=1 SV=1;tr|A0A5G2R7U7|A0A5G2R7U7\_PIG Complex I-  
 B8 OS=Sus scrofa OX=9823 GN=NDUFA2 PE=1 SV=1;tr|A0A5G2QV68|A0A5G2QV68\_PIG Complex  
 I-B8 OS=Sus  
 0 0 0 0 0 0 0 0 0 0 0 0 17 1 1 49,2 5,5 5,5  
 29,357 0 18,576 12545000 2  
 F1RGK5;A0A5G2RD45;A0A5G2RA93;A0A5G2QIK0;A0A288CFY3  
 F1RGK5;A0A5G2RD45;A0A5G2RA93;A0A5G2QIK0;A0A288CFY3810  
 tr|F1RGK5|F1RGK5\_PIG Tropomyosin alpha-3 chain OS=Sus scrofa OX=9823 GN=TPM3 PE=1  
 SV=3;tr|A0A5G2RD45|A0A5G2RD45\_PIG Tropomyosin alpha-3 chain OS=Sus scrofa OX=9823  
 GN=TPM3 PE=1 SV=1;tr|A0A5G2RA93|A0A5G2RA93\_PIG Tropomyosin alpha-3 chain OS=Sus  
 scrofa OX=98

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 16,5 16,5 16,5  
 9,4145 0 9,5202 3306400 2 F1RGW3 F1RGW3 811 tr|F1RGW3|F1RGW3\_PIG  
 Uncharacterized protein OS=Sus scrofa OX=9823 GN=COA6 PE=4 SV=2  
 18369000 0 44320000 7186300 4588700 51008000 0 16672000 16451000 7047100 12963000  
 17916000 24 18 18 29,8 22,9 22,9 103,73 0 64,008 1056500000 65  
 F1RHL9;A0A287AU97;A0A5G2QP94;A0A5G2QN32;I3LCP0;A0A5G2QLU2;A0A287BIH3  
 F1RHL9;A0A287AU97;A0A5G2QP94;A0A5G2QN32;I3LCP0;A0A5G2QLU2;A0A287BIH3 813  
 tr|F1RHL9|F1RHL9\_PIG Actinin alpha 2 OS=Sus scrofa OX=9823 GN=ACTN2 PE=1  
 SV=1;tr|A0A287AU97|A0A287AU97\_PIG Actinin alpha 2 OS=Sus scrofa OX=9823 GN=ACTN2 PE=1  
 SV=2;tr|A0A5G2QP94|A0A5G2QP94\_PIG Actinin alpha 2 OS=Sus scrofa OX=9823 GN=ACTN2  
 PE=1 SV=1;tr|A0A  
 0 3809200 5450600 4134900 9468600 9421400 0 3321200 4461400 4192300 5808000  
 14548000 2 2 2 12,2 12,2 12,2 9,7672 0 5,4904 142150000 20  
 F1RI18 F1RI18 814 tr|F1RI18|F1RI18\_PIG Complex III subunit 8 OS=Sus scrofa OX=9823  
 GN=UQCRQ PE=1 SV=1  
 31103000 35097000 19670000 53901000 23099000 17156000 43582000 22493000 38401000 41277000  
 17415000 11788000 4 4 4 12,8 12,8 12,8 26,11 0 23,104  
 749500000 30 F1RIA7;A0A5G2RAI4 F1RIA7;A0A5G2RAI4 815 tr|F1RIA7|F1RIA7\_PIG  
 Transmembrane protein 109 OS=Sus scrofa OX=9823 GN=TMEM109 PE=1  
 SV=1;tr|A0A5G2RAI4|A0A5G2RAI4\_PIG Transmembrane protein 109 OS=Sus scrofa OX=9823  
 GN=TMEM109 PE=1 SV=1  
 11666000 7909200 11085000 25402000 10131000 11119000 13729000 10374000 14697000 9324300  
 10706000 11341000 8 8 8 6,9 6,9 6,9 126,84 0 10,104  
 338180000 26 F1RIE2 F1RIE2 816 tr|F1RIE2|F1RIE2\_PIG DNA damage-binding  
 protein 1 OS=Sus scrofa OX=9823 GN=DDB1 PE=1 SV=3  
 999250000 376470000 1124500000 1300000000 605900000 2005200000 960210000  
 524480000 806830000 1482400000 714140000 921340000 9 9  
 9 70,7 70,7 70,7 16,166 0 137,09 56201000000 485  
 F1RII7;P02067;A0A5G2QRW3;F1RII5 F1RII7;P02067;A0A5G2QRW3 817  
 tr|F1RII7|F1RII7\_PIG Hemoglobin subunit beta OS=Sus scrofa OX=9823 GN=HBB PE=1  
 SV=1;sp|P02067|HBB\_PIG Hemoglobin subunit beta OS=Sus scrofa OX=9823 GN=HBB PE=1  
 SV=3;tr|A0A5G2QRW3|A0A5G2QRW3\_PIG Hemoglobin subunit beta OS=Sus scrofa OX=9823  
 GN=HBB PE=1 SV=1  
 5322900 6575200 0 9075000 0 5931700 14724000 0 4102300 11916000 0 5674500  
 5 5 5 22,8 22,8 22,8 28,745 0 11,207 148640000 14 F1RJJ3 F1RJJ3  
 818 tr|F1RJJ3|F1RJJ3\_PIG Ribosome maturation protein SBDS OS=Sus scrofa OX=9823  
 GN=SBDS PE=1 SV=1  
 137200000 187210000 203640000 26810000 131430000 109550000 39211000  
 117760000 119500000 42716000 128970000 149690000 16 16 16  
 24 24 24 86,624 0 138,38 7695000000 209 F1RK48;A0A287BAE0  
 F1RK48;A0A287BAE0 819 tr|F1RK48|F1RK48\_PIG Sarcolumenin isoform X1 OS=Sus scrofa  
 OX=9823 GN=SRL PE=1 SV=3;tr|A0A287BAE0|A0A287BAE0\_PIG Dynamin-type G domain-  
 containing protein OS=Sus scrofa OX=9823 GN=SRL PE=1 SV=2

607130000 324240000 259400000 842520000 325050000 368240000 894080000  
252310000 283180000 814910000 274650000 242410000 10 10  
10 75,4 75,4 75,4 20,971 0 89,376 20303000000 193 F1RKG8 F1RKG8 820  
tr|F1RKG8|F1RKG8\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 GN=PEBP1 PE=1  
SV=1  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 6,3 6,3 6,3  
13,725 0,0049407 1,5325 430350000 20 F1RKI3 F1RKI3 821  
tr|F1RKI3|F1RKI3\_PIG Histidine triad nucleotide binding protein 1 OS=Sus scrofa OX=9823  
GN=HINT1 PE=1 SV=1  
0 0 0 0 0 0 0 0 0 0 0 0 4 1 1 10,2 2,5 2,5  
55,347 0,0011561 2,7785 389420001 F1RL74;I3LNG5;A0A287BAW1  
F1RL74;I3LNG5 822 tr|F1RL74|F1RL74\_PIG Calcium/calmodulin-dependent protein kinase  
OS=Sus scrofa OX=9823 GN=CAMK2A PE=1 SV=3;tr|I3LNG5|I3LNG5\_PIG Calcium/calmodulin-  
dependent protein kinase OS=Sus scrofa OX=9823 GN=CAMK2A PE=1 SV=2  
0 0 0 0 0 0 0 0 0 0 0 0 3 1 1 9,4 3,5 3,5  
44,272 0 3,2373 556680005 F1RM74 F1RM74 823 tr|F1RM74|F1RM74\_PIG  
Glyceraldehyde-3-phosphate dehydrogenase OS=Sus scrofa OX=9823 GN=GAPDHS PE=1 SV=3  
0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 3,7 3,7 3,7  
89,601 0 4,5419 475660005 F1RMJ9 F1RMJ9 824 tr|F1RMJ9|F1RMJ9\_PIG  
Oxysterol-binding protein OS=Sus scrofa OX=9823 GN=OSBP PE=1 SV=2  
27257000 35351000 14077000 21487000 20823000 23165000 18008000 24591000 19732000 22311000  
21631000 13616000 7 7 7 15,9 15,9 15,9 52,447 0 14,02  
915440000 38 F1RN71;A0A5G2R8F5;A0A5G2QTS8 F1RN71;A0A5G2R8F5 825  
tr|F1RN71|F1RN71\_PIG Bleomycin hydrolase OS=Sus scrofa OX=9823 GN=BLMH PE=1  
SV=4;tr|A0A5G2R8F5|A0A5G2R8F5\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
GN=BLMH PE=1 SV=1  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 6,5 6,5 6,5  
18,293 0 4,5237 7715100011 F1RNI5 F1RNI5 826 tr|F1RNI5|F1RNI5\_PIG  
Complex I-B9 OS=Sus scrofa OX=9823 GN=NDUFA3 PE=1 SV=2  
42574000 50432000 78965000 43424000 90026000 84974000 29358000 65188000 74251000 43229000  
114680000 156830000 7 7 7 19,3 19,3 19,3 31,779 0 44,358  
2788700000 78 F1RNZ1 F1RNZ1 827 tr|F1RNZ1|F1RNZ1\_PIG Rieske domain-containing  
protein OS=Sus scrofa OX=9823 GN=UQCRFS1 PE=1 SV=2  
0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 5,6 5,6 5,6  
45,703 0 4,7931 357460003 F1RP05 F1RP05 828 tr|F1RP05|F1RP05\_PIG DnaJ  
heat shock protein family (Hsp40) member A2 OS=Sus scrofa OX=9823 GN=DNAJA2 PE=1 SV=1  
1067500000 1384600000 675660000 1195600000 1045400000 853920000 1288900000  
1116700000 1162300000 806410000 986130000 511320000 28 28  
23 65 65 51,1 44,558 0 323,31 120670000000 1374  
Q7SIB7;F1RPH0;A0A5G2QJC3;K7GKJ8;A0A5G2R4C4  
Q7SIB7;F1RPH0;A0A5G2QJC3;K7GKJ8;A0A5G2R4C4 829 sp|Q7SIB7|PGK1\_PIG  
Phosphoglycerate kinase 1 OS=Sus scrofa OX=9823 GN=PGK1 PE=1 SV=3;tr|F1RPH0|F1RPH0\_PIG  
Phosphoglycerate kinase OS=Sus scrofa OX=9823 GN=PGK1 PE=1

SV=3;tr|A0A5G2QJC3|A0A5G2QJC3\_PIG Phosphoglycerate kinase OS=Sus scrofa OX=9823  
GN=PGK1 PE=  
11794000 71146000 28633000 0 9908800 3758900 5992300 15353000 5084100 0 10398000  
7584700 15 15 15 14,2 14,2 14,2 137,25 0 47,105 635260000 40  
F1RPM0;I3LVF3;I3L8R9;A0A286ZYC0;A0A287AHM2;A0A287BNP7;A0A5G2R6P7;A0A5G2RA  
A1;F1SQP0;A0A286ZQP9;A0A287B6P0  
F1RPM0;I3LVF3;I3L8R9;A0A286ZYC0;A0A287AHM2;A0A287BNP7 830  
tr|F1RPM0|F1RPM0\_PIG Phosphorylase b kinase regulatory subunit OS=Sus scrofa OX=9823  
GN=PHKA1 PE=1 SV=2;tr|I3LVF3|I3LVF3\_PIG Phosphorylase b kinase regulatory subunit OS=Sus  
scrofa OX=9823 GN=PHKA1 PE=1 SV=2;tr|I3L8R9|I3L8R9\_PIG Phosphorylase b kinase regu  
25216000 27966000 26401000 0 15428000 0 7565400 15435000 17633000 9736100 9665100  
7330800 11 11 11 24,8 24,8 24,8 49,954 0 41,097 598030000 45  
F1RPW9;Q29387 F1RPW9;Q29387 831 tr|F1RPW9|F1RPW9\_PIG Elongation factor 1-  
gamma OS=Sus scrofa OX=9823 GN=EEF1G PE=4 SV=3;sp|Q29387|EF1G\_PIG Elongation factor 1-  
gamma (Fragment) OS=Sus scrofa OX=9823 GN=EEF1G PE=2 SV=2  
0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 8,4 8,4 8,4  
28,141 0,0021858 2,2845 4620200 2 F1RQZ4 F1RQZ4 832  
tr|F1RQZ4|F1RQZ4\_PIG Coiled-coil domain-containing protein 43 OS=Sus scrofa OX=9823  
GN=CCDC43 PE=3 SV=2  
0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1,2 1,2 1,2  
77,166 0,0086372 1,3912 191980000 7 F1RSG0 F1RSG0 833  
tr|F1RSG0|F1RSG0\_PIG Kinesin-like protein OS=Sus scrofa OX=9823 GN=KIF2B PE=3 SV=2  
0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 5,1 5,1 5,1  
40,75 0,003178 2,0355 21557000 12 F1RTY6 F1RTY6 834 tr|F1RTY6|F1RTY6\_PIG  
Peptidylprolyl isomerase D OS=Sus scrofa OX=9823 GN=PPID PE=1 SV=1  
0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 12,1 12,1 12,1  
15,184 0,0022321 2,4565 156060000 5 F1RUE0 F1RUE0 835  
tr|F1RUE0|F1RUE0\_PIG Acyl-CoA thioesterase 13 OS=Sus scrofa OX=9823 GN=ACOT13 PE=1  
SV=2  
0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 2,5 2,5 2,5  
88,265 0,0021598 2,151 12354000 3 Q9GLP0;K7GNY7;K7GQ83;F1RVE7;K7GS94  
Q9GLP0;K7GNY7;K7GQ83;F1RVE7;K7GS94 836 sp|Q9GLP0|ITB1\_PIG Integrin beta-1  
OS=Sus scrofa OX=9823 GN=ITGB1 PE=2 SV=1;tr|K7GNY7|K7GNY7\_PIG Integrin beta OS=Sus  
scrofa OX=9823 GN=ITGB1 PE=1 SV=3;tr|K7GQ83|K7GQ83\_PIG Integrin beta OS=Sus scrofa  
OX=9823 GN=ITGB1 PE=1 SV=2;tr|F1RVE7|F1RVE7\_PIG Integrin  
16654000 15937000 44963000 14459000 31282000 38360000 11283000 17365000 35711000 19769000  
32775000 76026000 10 10 10 23,1 23,1 23,1 50,569 0 26,256  
1623700000 67 F1RVN1 F1RVN1 837 tr|F1RVN1|F1RVN1\_PIG NADH dehydrogenase  
[ubiquinone] flavoprotein 1, mitochondrial OS=Sus scrofa OX=9823 GN=NDUFV1 PE=1 SV=1  
41781000 25780000 17045000 14508000 15996000 20753000 42844000 14827000 24030000 43086000  
17158000 9065300 8 8 8 11 11 11 71,203 0 28,063  
875700000 47 F1RWK0 F1RWK0 838 tr|F1RWK0|F1RWK0\_PIG Junctophilin OS=Sus  
scrofa OX=9823 GN=JPH1 PE=1 SV=1

17706000 15235000 30498000 24985000 20273000 28938000 19379000 21904000 33516000 42908000  
24335000 66226000 6 6 6 44,1 44,1 44,1 21,675 0 23,801  
768610000 46 F1RWL7 F1RWL7 839 tr|F1RWL7|F1RWL7\_PIG NADH dehydrogenase  
[ubiquinone] 1 beta subcomplex subunit 8, mitochondrial OS=Sus scrofa OX=9823 GN=NDUFB8  
PE=1 SV=1  
0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 11,3 11,3 11,3  
19,574 0 3,9801 10036000 3 F1RWM1;K7GNQ0;Q6DUB7;A0A5S6HQM6  
F1RWM1;K7GNQ0;Q6DUB7;A0A5S6HQM6 840 tr|F1RWM1|F1RWM1\_PIG Stathmin  
OS=Sus scrofa OX=9823 GN=STMN2 PE=1 SV=3;tr|K7GNQ0|K7GNQ0\_PIG Stathmin OS=Sus scrofa  
OX=9823 GN=STMN2 PE=1 SV=3;sp|Q6DUB7|STMN1\_PIG Stathmin OS=Sus scrofa OX=9823  
GN=STMN1 PE=2 SV=3;tr|A0A5S6HQM6|A0A5S6HQM6\_PIG Stathmin OS=Sus  
0 0 4845400 3465900 4609600 5057700 0 0 0 0 3885400 10231000  
4 4 4 9,6 9,6 9,6 45,369 0 7,126 88030000 15 F1RWZ4 F1RWZ4 841  
tr|F1RWZ4|F1RWZ4\_PIG Enoyl-CoA delta isomerase 2 OS=Sus scrofa OX=9823 GN=ECI2 PE=1  
SV=3  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 4,3 4,3 4,3  
27,172 0,0030488 1,7883 299270000 14 F1RX19;K7GQ32 F1RX19;K7GQ32 842  
tr|F1RX19|F1RX19\_PIG Chromosome X CXorf38 homolog OS=Sus scrofa OX=9823  
GN=CXHXorf38 PE=4 SV=3;tr|K7GQ32|K7GQ32\_PIG Chromosome X CXorf38 homolog OS=Sus  
scrofa OX=9823 GN=CXHXorf38 PE=4 SV=2  
0 0 0 0 0 3319700 0 0 4256100 0 0 0 3 3 3 4  
4 4 101,09 0 3,6574 27647000 4 F1RX36 F1RX36 843  
tr|F1RX36|F1RX36\_PIG Fibrinogen alpha chain OS=Sus scrofa OX=9823 GN=FGA PE=1 SV=4  
0 0 6807300 0 3540400 0 0 0 0 0 0 0 4 4 4 8,1  
8,1 8,1 59,001 0 7,004 52954000 8 I3LL55;F1RXA7 I3LL55;F1RXA7 844  
tr|I3LL55|I3LL55\_PIG Proteasome 26S subunit, non-ATPase 3 OS=Sus scrofa OX=9823  
GN=PSMD3 PE=1 SV=2;tr|F1RXA7|F1RXA7\_PIG 26S proteasome non-ATPase regulatory subunit 3  
OS=Sus scrofa OX=9823 GN=PSMD3 PE=1 SV=3  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1  
88,369 0,0021622 2,1561 6651700000 44 F1RXD6 F1RXD6 845  
tr|F1RXD6|F1RXD6\_PIG Cyclic nucleotide gated channel subunit beta 3 OS=Sus scrofa  
OX=9823 GN=CNGB3 PE=4 SV=3  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1,6 1,6 1,6  
69,965 0,0031024 1,8713 4308500 1 F1RZV8 F1RZV8 846  
tr|F1RZV8|F1RZV8\_PIG Kelch like family member 31 OS=Sus scrofa OX=9823 GN=KLHL31  
PE=1 SV=1  
31604000 20867000 47409000 80662000 37022000 49373000 60056000 26392000 40275000 98732000  
41577000 88413000 5 5 5 42,3 42,3 42,3 13,329 0 31,441  
1314400000 56 F1S031 F1S031 847 tr|F1S031|F1S031\_PIG NADH dehydrogenase  
[ubiquinone] iron-sulfur protein 6, mitochondrial OS=Sus scrofa OX=9823 GN=NDUFS6 PE=1 SV=1  
0 0 0 0 0 0 0 0 0 0 0 0 2 1 1 3,5 2 2  
50,357 0,003212 2,1052 9177300 1 F1S0K7 F1S0K7 848 tr|F1S0K7|F1S0K7\_PIG  
Keratin 35 OS=Sus scrofa OX=9823 GN=KRT35 PE=1 SV=1

0 6849400 7596100 0 0 0 0 0 0 0 0 0 3 3 3 2,5  
 2,5 2,5 123,71 0,0021786 2,2646 34458000 3 F1S0N2 F1S0N2 849  
 tr|F1S0N2|F1S0N2\_PIG ATP-citrate synthase OS=Sus scrofa OX=9823 GN=ACLY PE=1 SV=3  
 0 0 0 6999900 0 0 5341300 0 3198700 0 0 0 3 3 3  
 24 24 24 16,697 0 10,359 40329000 6 F1S192 F1S192 850  
 tr|F1S192|F1S192\_PIG Prefoldin subunit 2 OS=Sus scrofa OX=9823 GN=PFDN2 PE=1 SV=1  
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 11,3 11,3 11,3  
 11,041 0 3,09 41303000 8 F1S1L1 F1S1L1 851 tr|F1S1L1|F1S1L1\_PIG Mitochondrial  
 import inner membrane translocase subunit OS=Sus scrofa OX=9823 GN=TIMM8A PE=1 SV=1  
 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 5,9 5,9 5,9  
 58,336 0,0030706 1,8182 6933500 4 F1S288;A0A286ZNZ0 F1S288;A0A286ZNZ0  
 852 tr|F1S288|F1S288\_PIG Syntrophin beta 1 OS=Sus scrofa OX=9823 GN=SNBTB1 PE=1  
 SV=3;tr|A0A286ZNZ0|A0A286ZNZ0\_PIG Syntrophin beta 1 OS=Sus scrofa OX=9823 GN=SNBTB1  
 PE=1 SV=1  
 26137000 10576000 10591000 34825000 16517000 14659000 37193000 6893600 10442000 31376000  
 10185000 10285000 10 10 10 32,5 32,5 32,5 27,859 0 30,746  
 1032700000 53 F1S2A8 F1S2A8 853 tr|F1S2A8|F1S2A8\_PIG B-cell receptor-associated  
 protein OS=Sus scrofa OX=9823 GN=BCAP31 PE=1 SV=2  
 7101200 9361100 5384600 16450000 8402000 6724000 11203000 10434000 6749300 7152600  
 9903800 9179000 8 8 8 19,7 19,7 19,7 53,943 0 65,381  
 393650000 54 F1S2E2;A0A5K1UZZ4;F1RRP6;A0A287A080 F1S2E2;A0A5K1UZZ4 854  
 tr|F1S2E2|F1S2E2\_PIG Annexin OS=Sus scrofa OX=9823 GN=ANXA11 PE=1  
 SV=2;tr|A0A5K1UZZ4|A0A5K1UZZ4\_PIG Annexin OS=Sus scrofa OX=9823 GN=ANXA11 PE=1  
 SV=1  
 65629000 65139000 125550000 115330000 108790000 118920000 128450000 63045000  
 121710000 154030000 98228000 178490000 10 10 10 38,8 38,8 38,8  
 31,604 0 90,913 3652700000 106 F1S2F6;Q9MZ15;A0A287B452  
 F1S2F6;Q9MZ15;A0A287B452 855 tr|F1S2F6|F1S2F6\_PIG Voltage-dependent anion-  
 selective channel protein 2 OS=Sus scrofa OX=9823 GN=VDAC2 PE=3  
 SV=3;sp|Q9MZ15|VDAC2\_PIG Voltage-dependent anion-selective channel protein 2 OS=Sus scrofa  
 OX=9823 GN=VDAC2 PE=2 SV=1;tr|A0A287B452|A0A287B452\_PIG  
 8717500 0 0 0 0 0 0 0 0 8583800 0 0 3 3 3 25,9  
 25,9 25,9 12,701 0 9,676 54088000 7 F1S2G3;A0A5G2QMR7 F1S2G3;A0A5G2QMR7  
 856 tr|F1S2G3|F1S2G3\_PIG Tubulin-specific chaperone A OS=Sus scrofa OX=9823 GN=TBCA  
 PE=1 SV=2;tr|A0A5G2QMR7|A0A5G2QMR7\_PIG Tubulin-specific chaperone A OS=Sus scrofa  
 OX=9823 GN=TBCA PE=1 SV=1  
 3857600 0 0 5761200 0 3827600 4460800 0 0 0 0 5600700 3  
 3 3 18,2 18,2 18,2 18,919 0 4,9212 53343000 5 F1S2I8 F1S2I8 857  
 tr|F1S2I8|F1S2I8\_PIG Tubulin polymerization-promoting protein family member 3 OS=Sus  
 scrofa OX=9823 GN=TPPP3 PE=1 SV=2  
 60905000 44916000 61263000 125670000 98704000 90188000 127540000 42555000 60653000  
 139760000 81696000 117170000 6 6 6 67 67 67 10,671 0

92,471 2346500000 78 F1S3W0 F1S3W0 858 tr|F1S3W0|F1S3W0\_PIG Cytochrome b-c1 complex subunit 6 OS=Sus scrofa OX=9823 GN=LOC100524873 PE=1 SV=1  
15762000 9278200 8907000 18409000 11597000 8514900 20919000 13269000 6055700 14089000  
16220000 12183000 8 8 8 18,4 18,4 18,4 65,252 0 28,17  
556570000 42 F1S415 F1S415 859 tr|F1S415|F1S415\_PIG BAG cochaperone 3 OS=Sus scrofa OX=9823 GN=BAG3 PE=1 SV=2  
4476900 4251900 2297000 3712100 2905400 2835300 3818800 0 4404300 4683900 3266200  
3580900 4 4 4 14,1 14,1 14,1 38,273 0 9,1883 83960000 20  
F1S4Y8 F1S4Y8 860 tr|F1S4Y8|F1S4Y8\_PIG Eukaryotic translation initiation factor 2 subunit beta OS=Sus scrofa OX=9823 GN=EIF2S2 PE=1 SV=2  
8102600 4347400 5624100 8502900 4570500 0 12340000 0 9550200 0 4802400  
2 2 2 10,7 10,7 10,7 24,979 0 7,8799 124900000 11 F1S4Z2 F1S4Z2  
861 tr|F1S4Z2|F1S4Z2\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 GN=CHMP4B PE=1 SV=3  
77058000 277100000 79683000 48267000 214440000 107390000 28547000 242520000  
149240000 23701000 209360000 64481000 58 58 58 43,9 43,9 43,9  
170,98 0 323,31 25243000000 701 F1S557;A0A287AXA8;A0A287B3F4;A0A286ZMH7  
F1S557;A0A287AXA8;A0A287B3F4;A0A286ZMH7 862 tr|F1S557|F1S557\_PIG 4-alpha-glucanotransferase OS=Sus scrofa OX=9823 GN=AGL PE=1 SV=2;tr|A0A287AXA8|A0A287AXA8\_PIG 4-alpha-glucanotransferase OS=Sus scrofa OX=9823 GN=AGL PE=1 SV=2;tr|A0A287B3F4|A0A287B3F4\_PIG 4-alpha-glucanotransferase OS=Sus scrofa OX=9  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 3,1 3,1 3,1  
43,712 0 6,342 83802000 9 F1S6B4 F1S6B4 863 tr|F1S6B4|F1S6B4\_PIG Prolargin OS=Sus scrofa OX=9823 GN=PRELP PE=1 SV=3  
0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 5,3 5,3 5,3  
47,708 0,0011261 2,523 76379000 4  
F1S734;A0A5G2QB44;A0A287BB80;A0A5G2R7Z3;A0A287A541  
F1S734;A0A5G2QB44;A0A287BB80 864 tr|F1S734|F1S734\_PIG Protein-tyrosine-phosphatase OS=Sus scrofa OX=9823 GN=FBXO30 PE=4 SV=2;tr|A0A5G2QB44|A0A5G2QB44\_PIG Protein-tyrosine-phosphatase OS=Sus scrofa OX=9823 GN=FBXO30 PE=4 SV=1;tr|A0A287BB80|A0A287BB80\_PIG Uncharacterized protein OS=Sus scrofa  
0 0 0 6605300 0 0 0 0 0 8126900 0 0 3 3 3 20,6  
20,6 20,6 18,13 0 3,2061 79099000 8 F1S765 F1S765 865 tr|F1S765|F1S765\_PIG CXXC motif containing zinc binding protein OS=Sus scrofa OX=9823 GN=CZIB PE=1 SV=2  
821290000 1740100000 672890000 797430000 1472400000 875880000 615470000  
1564500000 1114200000 417830000 1381300000 503470000 26 26  
26 46,7 46,7 46,7 61,747 0 213,37 137700000000 1178F1S814;A0A287A530  
F1S814;A0A287A530 866 tr|F1S814|F1S814\_PIG Phosphoglucomutase 1 OS=Sus scrofa OX=9823 GN=PGM1 PE=1 SV=4;tr|A0A287A530|A0A287A530\_PIG Phosphoglucomutase 1 OS=Sus scrofa OX=9823 GN=PGM1 PE=1 SV=2  
8512900 8347500 5764100 3845400 4617700 2182000 12792000 6215300 5037000 11193000  
4823000 4779700 6 6 6 21,9 21,9 21,9 40,57 0 20,869



186670000 29 F1S880;A0A5G2R8G1;A0A287AGR0 F1S880;A0A5G2R8G1;A0A287AGR0  
867 tr|F1S880|F1S880\_PIG NSFL1 cofactor p47 OS=Sus scrofa OX=9823 GN=NSFL1C PE=1  
SV=3;tr|A0A5G2R8G1|A0A5G2R8G1\_PIG NSFL1 cofactor p47 OS=Sus scrofa OX=9823 GN=NSFL1C  
PE=1 SV=1;tr|A0A287AGR0|A0A287AGR0\_PIG NSFL1 cofactor p47 OS=Sus scrofa OX=9823  
GN=NSFL1C PE=1  
0 0 12615000 10026000 10634000 11321000 19453000 12972000 9682000 18179000 11923000  
11028000 3 3 3 13,9 13,9 13,9 25,627 0 16,995 261030000 28  
F1S9H9;A0A286ZW71;P81693 F1S9H9;A0A286ZW71;P81693 868  
tr|F1S9H9|F1S9H9\_PIG Low molecular weight cytosolic acid phosphatase OS=Sus scrofa  
OX=9823 GN=ACP1 PE=1 SV=4;tr|A0A286ZW71|A0A286ZW71\_PIG Low molecular weight  
phosphotyrosine protein phosphatase OS=Sus scrofa OX=9823 GN=ACP1 PE=1  
SV=1;sp|P81693|PPAC\_PIG Lo  
11863000 4195500 5171000 0 0 0 4346800 0 0 0 4243700 0 3  
3 3 11,6 11,6 11,6 37,865 0 15,831 84988000 13 F1S9T0 F1S9T0 869  
tr|F1S9T0|F1S9T0\_PIG DnaJ heat shock protein family (Hsp40) member B4 OS=Sus scrofa  
OX=9823 GN=DNAJB4 PE=1 SV=2  
10529000 17682000 23252000 0 19402000 35175000 6240400 10724000 11913000 7100400 13477000  
37013000 2 2 2 6 6 6 33,521 0 5,9036 343700000 34  
F1S9V9 F1S9V9 870 tr|F1S9V9|F1S9V9\_PIG Transmembrane protein 38A OS=Sus scrofa  
OX=9823 GN=TMEM38A PE=1 SV=3  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0,9 0,9 0,9  
111,44 0,0086622 1,4041 153730000 5 F1SAC4 F1SAC4 871  
tr|F1SAC4|F1SAC4\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 GN=SCART1 PE=4  
SV=3  
0 5749200 0 0 0 0 9711600 0 0 7107700 0 0 4 4 4  
6,5 6,5 6,5 72,908 0 17,062 89222000 21 F1SAD9 F1SAD9 872  
tr|F1SAD9|F1SAD9\_PIG Protein disulfide-isomerase OS=Sus scrofa OX=9823 GN=PDIA4 PE=1  
SV=1  
0 0 0 13308000 0 6361300 9663100 0 6695700 11399000 5821600 4794500  
15 15 15 8,9 8,9 8,9 197,2 0 30,042 374230000 39  
F1SAE9;A0A5G2QKZ6;A0A5G2R1S7 F1SAE9;A0A5G2QKZ6 873 tr|F1SAE9|F1SAE9\_PIG  
Laminin subunit beta 1 OS=Sus scrofa OX=9823 GN=LAMB1 PE=1  
SV=4;tr|A0A5G2QKZ6|A0A5G2QKZ6\_PIG Laminin subunit beta 1 OS=Sus scrofa OX=9823  
GN=LAMB1 PE=1 SV=1  
0 58398000 129880000 116100000 115160000 103200000 94989000 329450000  
215450000 103410000 71476000 117900000 4 4 4 42,7 42,7 42,7  
11,317 0 32,12 2023900000 38 F1SAK7;A0A5G2QK91;A0A287A725  
F1SAK7;A0A5G2QK91;A0A287A725 874 tr|F1SAK7|F1SAK7\_PIG ATP synthase subunit  
OS=Sus scrofa OX=9823 GN=ATP5MG PE=1 SV=2;tr|A0A5G2QK91|A0A5G2QK91\_PIG ATP  
synthase subunit OS=Sus scrofa OX=9823 GN=ATP5MG PE=1  
SV=1;tr|A0A287A725|A0A287A725\_PIG ATP synthase subunit OS=Sus scrofa OX=9823 GN=ATP5M

0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 9,1 9,1 9,1  
16,617 0,0022222 2,4018 6904500 2 F1SAR5 F1SAR5 875  
tr|F1SAR5|F1SAR5\_PIG Glutaredoxin 5 OS=Sus scrofa OX=9823 GN=GLRX5 PE=1 SV=1  
7643400 11140000 5492500 0 6028000 3933300 0 0 0 0 0 3298400  
4 4 4 10,9 10,9 10,9 48,633 0 21,355 104160000 10 F1SB53;A0A287BR45  
F1SB53;A0A287BR45 876 tr|F1SB53|F1SB53\_PIG 26S proteasome AAA-ATPase subunit  
RPT1 OS=Sus scrofa OX=9823 GN=PSMC2 PE=1 SV=2;tr|A0A287BR45|A0A287BR45\_PIG 26S  
proteasome AAA-ATPase subunit RPT1 OS=Sus scrofa OX=9823 GN=PSMC2 PE=1 SV=1  
6633600 5821600 6566800 4104500 6836800 6159300 0 0 6881100 0 0 4763900  
4 4 4 7,7 7,7 7,7 60,652 0 7,1749 123630000 17  
F1SB63;A0A287AKV4;A0A287AJY2;A0A287BDF2  
F1SB63;A0A287AKV4;A0A287AJY2;A0A287BDF2 877 tr|F1SB63|F1SB63\_PIG CCT-alpha  
OS=Sus scrofa OX=9823 GN=TCP1 PE=1 SV=2;tr|A0A287AKV4|A0A287AKV4\_PIG T-complex 1  
OS=Sus scrofa OX=9823 GN=TCP1 PE=1 SV=1;tr|A0A287AJY2|A0A287AJY2\_PIG CCT-alpha  
OS=Sus scrofa OX=9823 GN=TCP1 PE=1 SV=2;tr|A0A287BDF2|A0A287BDF2\_  
66943000 38589000 109140000 49900000 35830000 157730000 62961000 31608000 61072000  
57495000 41438000 117820000 11 11 4 26,6 26,6 11,3 46,391 0  
89,125 328740000 111 F1SCC9 F1SCC9 878 tr|F1SCC9|F1SCC9\_PIG SERPIN domain-  
containing protein OS=Sus scrofa OX=9823 GN=LOC106504545 PE=1 SV=2  
79469000 88023000 111210000 248740000 79109000 96308000 172640000 0 0 0  
86601000 0 6 3 0 11 6 0 46,815 0 6,1636 1220600000  
16 F1SCD1 F1SCD1 879 tr|F1SCD1|F1SCD1\_PIG SERPIN domain-containing protein  
OS=Sus scrofa OX=9823 GN=LOC100156325 PE=1 SV=3  
7981000 7413900 8538900 6989400 0 10812000 6577700 5325400 4360400 8576900 0  
8445500 3 3 3 8,1 8,1 8,1 46,951 0 10,997 152150000 18  
F1SCF0;P50447 F1SCF0;P50447 880 tr|F1SCF0|F1SCF0\_PIG Alpha-1-antitrypsin OS=Sus  
scrofa OX=9823 GN=SERPINA1 PE=3 SV=2;sp|P50447|A1AT\_PIG Alpha-1-antitrypsin OS=Sus  
scrofa OX=9823 GN=SERPINA1 PE=2 SV=1  
14486000 0 15252000 17192000 16126000 16519000 16728000 0 13004000 26719000 0 0  
2 2 2 12,4 12,4 12,4 16,458 0 3,2713 282680000 12 F1SCH1 F1SCH1  
881 tr|F1SCH1|F1SCH1\_PIG Complex I-B18 OS=Sus scrofa OX=9823 GN=NDUFB7 PE=1 SV=3  
0 0 41306000 29038000 34171000 33255000 32022000 0 0 45617000 0 61278000  
2 2 2 32,8 32,8 32,8 7,0322 0 8,1512 473770000 17 F1SD73 F1SD73 882  
tr|F1SD73|F1SD73\_PIG Complex I-MNLL OS=Sus scrofa OX=9823 PE=1 SV=2  
22782000 14340000 14419000 9746300 11028000 11198000 20449000 13523000 12849000 19590000  
11929000 9467500 5 5 5 15,5 15,5 15,5 44,032 0 28,64  
604950000 41 F1SDT0 F1SDT0 883 tr|F1SDT0|F1SDT0\_PIG Uncharacterized protein  
OS=Sus scrofa OX=9823 GN=JPH2 PE=1 SV=2  
0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 2,2 2,2 2,2  
68,916 0,0011547 2,7717 19313000 1 I3LLF2;Q9GL01;F1SEM2;I3LRG0  
I3LLF2;Q9GL01;F1SEM2;I3LRG0 884 tr|I3LLF2|I3LLF2\_PIG Dolichyl-  
diphosphooligosaccharide--protein glycosyltransferase subunit 2 OS=Sus scrofa OX=9823 GN=RPN2

PE=1 SV=3;sp|Q9GL01|RPN2\_PIG Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 2 OS=Sus scrofa OX=9823 GN=RPN2

6391900 0 0 6222300 0 0 6029600 0 0 8180200 0 5222000 5  
5 5 10,2 10,2 10,2 61,307 0 11,789 83120000 12

P42174;F1SEN2;A0A287ATW3;A0A5G2R3R8 P42174;F1SEN2;A0A287ATW3;A0A5G2R3R8

885 sp|P42174|DHE3\_PIG Glutamate dehydrogenase 1, mitochondrial OS=Sus scrofa OX=9823 GN=GLUD1 PE=1 SV=2;tr|F1SEN2|F1SEN2\_PIG Glutamate dehydrogenase (NAD(P)(+)) OS=Sus scrofa OX=9823 GN=GLUD1 PE=1 SV=1;tr|A0A287ATW3|A0A287ATW3\_PIG Glutamate dehydrogenase (NAD

0 0 8873700 0 8999500 9888100 9633300 0 8667400 12053000 8149800 11856000

2 2 2 6,1 6,1 6,1 37,077 0 5,8793 171990000 4 F1SEQ3 F1SEQ3

886 tr|F1SEQ3|F1SEQ3\_PIG Growth hormone-inducible transmembrane protein OS=Sus scrofa OX=9823 GN=GHITM PE=1 SV=1

41788000 58004000 64951000 39990000 45028000 84832000 48822000 42062000 51326000 45181000

47075000 64556000 9 9 9 29,9 29,9 29,9 38,789 0 48,066

192490000 102 F1SFI7;P29700;A0A287BDE8 F1SFI7;P29700;A0A287BDE8 887

tr|F1SFI7|F1SFI7\_PIG Alpha-2-HS-glycoprotein OS=Sus scrofa OX=9823 GN=AHSG PE=1 SV=3;sp|P29700|FETUA\_PIG Alpha-2-HS-glycoprotein (Fragment) OS=Sus scrofa OX=9823 GN=AHSG PE=1 SV=1;tr|A0A287BDE8|A0A287BDE8\_PIG Alpha-2-HS-glycoprotein OS=Sus scrofa OX=9823 G

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 3,7 3,7 3,7

46,601 0,0078049 1,4838 2152900 1 F1SGP8 F1SGP8 888

tr|F1SGP8|F1SGP8\_PIG Reticulocalbin-1 OS=Sus scrofa OX=9823 GN=RCN1 PE=1 SV=3

8586700 10497000 38813000 11433000 26872000 36611000 9742700 15392000 32624000 17785000

32108000 69916000 11 11 11 26,6 26,6 26,6 40,421 0 50,15

152130000 65 F1SIS9;A0A5G2R3C0 F1SIS9 889 tr|F1SIS9|F1SIS9\_PIG NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 10, mitochondrial OS=Sus scrofa OX=9823 GN=NDUFA10 PE=1 SV=1

6219300 13479000 17705000 45211000 11640000 13853000 24531000 31752000 46326000 51738000

21129000 31903000 2 2 2 17,1 17,1 17,1 16,748 0 22,342

50429000 52 F1SJ34;A0A287B0Q9 F1SJ34;A0A287B0Q9 890 tr|F1SJ34|F1SJ34\_PIG

Cytochrome c oxidase polypeptide Va OS=Sus scrofa OX=9823 GN=COX5A PE=1 SV=1;tr|A0A287B0Q9|A0A287B0Q9\_PIG Cytochrome c oxidase polypeptide Va OS=Sus scrofa OX=9823 GN=COX5A PE=1 SV=1

4571800 0 0 0 0 0 4392000 0 0 5716200 0 4577300 3 3

2 11,1 11,1 7,3 36,669 0 3,7755 73080000 10 F1SJ93 F1SJ93 891

tr|F1SJ93|F1SJ93\_PIG Reticulocalbin 2 OS=Sus scrofa OX=9823 GN=RCN2 PE=1 SV=4

12716000 11752000 5735400 7718400 0 5922900 9694800 0 6259400 9548400 5501500 0

6 6 6 25,3 25,3 25,3 33,264 0 28,914 221300000 25

K7GLE1;F1SJB5;P19619 K7GLE1;F1SJB5;P19619 892 tr|K7GLE1|K7GLE1\_PIG Annexin OS=Sus scrofa OX=9823 GN=ANXA1 PE=1 SV=2;tr|F1SJB5|F1SJB5\_PIG Annexin OS=Sus scrofa OX=9823 GN=ANXA1 PE=1 SV=3;sp|P19619|ANXA1\_PIG Annexin A1 OS=Sus scrofa OX=9823 GN=ANXA1 PE=1 SV=3

13743000 9196300 7798800 0 0 0 0 0 0 0 0 0 12 12 12  
14 14 14 122,83 0 36,023 192240000 24 F1SJC2 F1SJC2 893  
tr|F1SJC2|F1SJC2\_PIG Protein phosphatase 1 regulatory subunit 3A OS=Sus scrofa OX=9823  
GN=PPP1R3A PE=1 SV=3  
0 0 7649500 0 0 7373900 0 0 0 0 0 10617000 7 7 7  
12,9 12,9 12,9 62,132 0 15,446 189630000 13 F1SJE6;A0A5G2QE37;A0A5G2QVN5  
F1SJE6;A0A5G2QE37;A0A5G2QVN5 894 tr|F1SJE6|F1SJE6\_PIG Phosphoglucomutase 5  
OS=Sus scrofa OX=9823 GN=PGM5 PE=1 SV=3;tr|A0A5G2QE37|A0A5G2QE37\_PIG  
Phosphoglucomutase 5 OS=Sus scrofa OX=9823 GN=PGM5 PE=1  
SV=1;tr|A0A5G2QVN5|A0A5G2QVN5\_PIG Phosphoglucomutase 5 OS=Sus scrofa OX=9823  
GN=PGM5 PE=1  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 5,2 5,2 5,2  
17,854 0,0049358 1,5325 313730000 20 F1SJP6 F1SJP6 895  
tr|F1SJP6|F1SJP6\_PIG Complex I-B14 OS=Sus scrofa OX=9823 GN=NDUFA6 PE=1 SV=3  
0 0 0 13073000 0 0 8322000 0 0 12871000 0 0 7 7 7  
35,7 35,7 35,7 31,191 0 16,879 119690000 17 F1SKY2;A0A5G2RGN4  
F1SKY2;A0A5G2RGN4 896 tr|F1SKY2|F1SKY2\_PIG Omega-amidase NIT2 OS=Sus scrofa  
OX=9823 GN=NIT2 PE=1 SV=3;tr|A0A5G2RGN4|A0A5G2RGN4\_PIG CN hydrolase domain-  
containing protein OS=Sus scrofa OX=9823 GN=NIT2 PE=1 SV=1  
172140000 184360000 371550000 229490000 300860000 313450000 169880000  
274500000 394560000 351770000 367620000 576640000 15 15  
15 42,4 42,4 42,4 48,643 0 139,65 22362000000 482  
F1SLA0;K7GLT8;A0A287BET3;A0A287ANH8 F1SLA0;K7GLT8;A0A287BET3 897  
tr|F1SLA0|F1SLA0\_PIG ATP synthase subunit beta OS=Sus scrofa OX=9823 GN=ATP5F1B PE=1  
SV=3;tr|K7GLT8|K7GLT8\_PIG ATP synthase subunit beta OS=Sus scrofa OX=9823 GN=ATP5F1B  
PE=1 SV=2;tr|A0A287BET3|A0A287BET3\_PIG ATP synthase F1 subunit beta OS=Sus scrofa OX=9  
27291000 34932000 25549000 29608000 33709000 41784000 20187000 33503000 26871000 25154000  
29107000 36373000 10 10 1 43,8 43,8 2,6 28,563 0 25,234  
1617100000 109 F1SLF0 F1SLF0 898 tr|F1SLF0|F1SLF0\_PIG Sepiapterin reductase  
OS=Sus scrofa OX=9823 GN=SPR PE=1 SV=3  
23359000 14780000 38666000 23113000 26998000 29796000 18355000 19419000 29822000 24331000  
29594000 69777000 5 5 5 25,7 25,7 25,7 27,715 0 11,79  
1008700000 32 F1SLR1;A0A5G2QVE8 F1SLR1;A0A5G2QVE8 899  
tr|F1SLR1|F1SLR1\_PIG Complex I-19kD OS=Sus scrofa OX=9823 GN=NDUFA8 PE=1  
SV=3;tr|A0A5G2QVE8|A0A5G2QVE8\_PIG Complex I-19kD OS=Sus scrofa OX=9823 GN=NDUFA8  
PE=1 SV=1  
0 21577000 20226000 71756000 43431000 30511000 51870000 43305000 31953000 44783000 37623000  
42162000 7 7 7 66,7 66,7 66,7 10,96 0 11,407 1029900000 38  
F1SMZ6;A0A287A1U5;A0A5G2R8I0;A0A5G2QEY3  
F1SMZ6;A0A287A1U5;A0A5G2R8I0;A0A5G2QEY3 900 tr|F1SMZ6|F1SMZ6\_PIG 10 kDa heat  
shock protein, mitochondrial OS=Sus scrofa OX=9823 GN=HSPE1 PE=1  
SV=1;tr|A0A287A1U5|A0A287A1U5\_PIG 10 kDa heat shock protein, mitochondrial OS=Sus scrofa  
OX=9823 GN=HSPE1 PE=1 SV=1;tr|A0A5G2R8I0|A0A5G2R8I0\_PIG 10 kDa heat s

19166000 6503600 73612000 15674000 4231600 88125000 20860000 3787800 37728000 19601000  
 5348500 72124000 8 8 8 30 30 30 23,045 0 36,033  
 2503900000 85 F1SN68;A0A5G2R0I4 F1SN68;A0A5G2R0I4 901  
 tr|F1SN68|F1SN68\_PIG Alpha-1-acid glycoprotein OS=Sus scrofa OX=9823 GN=ORM1 PE=1  
 SV=1;tr|A0A5G2R0I4|A0A5G2R0I4\_PIG Lipocln\_cytosolic\_FA-bd\_dom domain-containing protein  
 OS=Sus scrofa OX=9823 GN=ORM1 PE=1 SV=1  
 98522000 25101000 204700000 231260000 121710000 317600000 126220000 95119000  
 97357000 73487000 80172000 140800000 9 7 6 45,9 37,8 32,1 21,76  
 0 86,604 4817200000 133 F1SNW4;A0A5G2QI13 F1SNW4;A0A5G2QI13 902  
 tr|F1SNW4|F1SNW4\_PIG Myosin light chain 3 OS=Sus scrofa OX=9823 GN=MYL3 PE=1  
 SV=3;tr|A0A5G2QI13|A0A5G2QI13\_PIG Myosin light chain 3 OS=Sus scrofa OX=9823 GN=MYL3  
 PE=1 SV=1  
 21147000 11168000 11344000 16777000 14870000 10686000 26811000 9882500 9944800 18636000  
 8795400 9907100 5 5 5 19,9 19,9 19,9 34,975 0 31,343  
 475500000 20 F1SP32 F1SP32 903 tr|F1SP32|F1SP32\_PIG UV excision repair protein  
 RAD23 OS=Sus scrofa OX=9823 GN=RAD23B PE=1 SV=2  
 5765100 7822000 6785400 7524700 6899500 7078500 10127000 7534200 7119000 6921900  
 6766300 8157700 6 6 6 14,1 14,1 14,1 58,056 0 19,125  
 265340000 10 F1SQN1;A0A5G2QN54 F1SQN1;A0A5G2QN54 906  
 tr|F1SQN1|F1SQN1\_PIG T-complex protein 1 subunit delta OS=Sus scrofa OX=9823 GN=CCT4  
 PE=1 SV=1;tr|A0A5G2QN54|A0A5G2QN54\_PIG T-complex protein 1 subunit delta OS=Sus scrofa  
 OX=9823 GN=CCT4 PE=1 SV=1  
 11580000 12762000 33621000 17667000 17688000 29421000 14160000 11028000 23840000 22071000  
 26619000 69187000 5 5 5 40 40 40 17,136 0 12,194  
 657880000 58 F1SQP4;A0A5G2QQP8;A0A286ZTC8;A0A5G2QB28;A0A5G2QM44  
 F1SQP4;A0A5G2QQP8;A0A286ZTC8;A0A5G2QB28 907 tr|F1SQP4|F1SQP4\_PIG NADH  
 dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 12 OS=Sus scrofa OX=9823 GN=NDUFA12  
 PE=1 SV=2;tr|A0A5G2QQP8|A0A5G2QQP8\_PIG Uncharacterized protein OS=Sus scrofa OX=9823  
 GN=NDUFA12 PE=1 SV=1;tr|A0A286ZTC8|A0A286ZTC8\_PIG NADH  
 6745500 13009000 8872500 7362400 7872100 12525000 7582900 9169800 8449700 5940600  
 9300300 7898000 8 8 8 14 14 14 68,623 0 9,6888  
 275580000 27 F1SQR8 F1SQR8 908 tr|F1SQR8|F1SQR8\_PIG Leukotriene A(4)  
 hydrolase OS=Sus scrofa OX=9823 GN=LTA4H PE=1 SV=4  
 34331000 55447000 180330000 74452000 200110000 120090000 54602000 93977000 94246000  
 44810000 164610000 281810000 9 8 8 31,7 28,1 28,1 36,612 0  
 102,07 6062200000 151 P00336;F1SR05;A0A287AQS1;A0A5G2QHL7  
 P00336;F1SR05;A0A287AQS1;A0A5G2QHL7 909 sp|P00336|LDHB\_PIG L-lactate  
 dehydrogenase B chain OS=Sus scrofa OX=9823 GN=LDHB PE=1 SV=3;tr|F1SR05|F1SR05\_PIG L-  
 lactate dehydrogenase OS=Sus scrofa OX=9823 GN=LDHB PE=3  
 SV=3;tr|A0A287AQS1|A0A287AQS1\_PIG L-lactate dehydrogenase B chain OS=Sus scrofa OX=98  
 0 0 0 0 0 0 0 0 0 0 0 0 3 1 0 21 5,1 0  
 17,015 0,005 1,6457 259630000 9 F1SR48 F1SR48 910 tr|F1SR48|F1SR48\_PIG

Protein phosphatase 1 regulatory inhibitor subunit 1A OS=Sus scrofa OX=9823 GN=PPP1R1A PE=1 SV=4

0 0 0 0 0 0 0 0 0 0 0 0 0 27 1 1 40,1 1 1  
85,447 0 3,3856 398020000 6 F1SRC5 F1SRC5 911 tr|F1SRC5|F1SRC5\_PIG

Aconitate hydratase, mitochondrial OS=Sus scrofa OX=9823 GN=ACO2 PE=1 SV=3

7226400 9862300 11567000 0 6554900 0 0 0 0 0 0 0 4 4  
4 6,9 6,9 6,9 69,594 0 7,2193 80218000 8 F1SRF1 F1SRF1 913

tr|F1SRF1|F1SRF1\_PIG Kelch like family member 40 OS=Sus scrofa OX=9823 GN=KLHL40 PE=3 SV=3

13527000 39196000 59876000 0 33830000 22980000 0 6072900 35458000 4294300 34114000  
73175000 79 16 3 40,7 7,9 2,1 223,17 0 56,235 1799700000 84  
Q9TV61;F1SS65 Q9TV61;F1SS65 914 sp|Q9TV61|MYH1\_PIG Myosin-1 OS=Sus scrofa  
OX=9823 GN=MYH1 PE=2 SV=1;tr|F1SS65|F1SS65\_PIG Myosin-4 OS=Sus scrofa OX=9823  
GN=MYH4 PE=3 SV=4

0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 6,8 6,8 6,8  
38,094 0,0078355 1,497 50719000 3 F1SSI2;A0A5G2QGL0 F1SSI2;A0A5G2QGL0  
916 tr|F1SSI2|F1SSI2\_PIG Dehydrogenase/reductase 7 OS=Sus scrofa OX=9823 GN=DHRS7  
PE=1 SV=1;tr|A0A5G2QGL0|A0A5G2QGL0\_PIG Dehydrogenase/reductase 7 OS=Sus scrofa  
OX=9823 GN=DHRS7 PE=1 SV=1

0 0 0 8507000 0 0 10613000 0 0 0 0 0 3 3 3 27,3  
27,3 27,3 14,51 0 7,9832 60156000 6 F1SSK4 F1SSK4 917 tr|F1SSK4|F1SSK4\_PIG  
zf-Tim10\_DDP domain-containing protein OS=Sus scrofa OX=9823 PE=1 SV=2

26225000 15897000 20088000 42099000 16776000 26894000 49031000 17537000 17497000 40145000  
12545000 14529000 6 6 6 17,7 17,7 17,7 35,824 0 11,473  
65435000 29 F1ST73;A0A287A1W5 F1ST73;A0A287A1W5 918 tr|F1ST73|F1ST73\_PIG  
Glyoxylate and hydroxypyruvate reductase OS=Sus scrofa OX=9823 GN=GRHPR PE=1  
SV=3;tr|A0A287A1W5|A0A287A1W5\_PIG Glyoxylate and hydroxypyruvate reductase OS=Sus  
scrofa OX=9823 GN=GRHPR PE=1 SV=1

21579000 24943000 16936000 37946000 19034000 21411000 43475000 10742000 10763000 33239000  
20903000 15866000 10 10 10 24,3 24,3 24,3 52,285 0 48,284  
1117900000 69 I3LEY2;F1SU59;A0A5G2R850 I3LEY2;F1SU59;A0A5G2R850 919  
tr|I3LEY2|I3LEY2\_PIG Annexin OS=Sus scrofa OX=9823 GN=ANXA7 PE=1  
SV=3;tr|F1SU59|F1SU59\_PIG Annexin OS=Sus scrofa OX=9823 GN=ANXA7 PE=1  
SV=4;tr|A0A5G2R850|A0A5G2R850\_PIG Annexin OS=Sus scrofa OX=9823 GN=ANXA7 PE=1 SV=1

0 0 0 0 0 0 0 0 0 0 0 0 0 5 5 5 11,1 11,1 11,1  
42,446 0 8,5866 47115000 6 F1SUE4;A0A5G2R455 F1SUE4 920  
tr|F1SUE4|F1SUE4\_PIG Asporin OS=Sus scrofa OX=9823 GN=ASPN PE=1 SV=1

25629000 12473000 20783000 0 9713600 0 7373300 0 9434300 5284100 0 5821900  
5 5 5 42,4 42,4 42,4 13,17 0 12,745 368200000 13  
F1SUG4;A0A5G2R2Y3;A0A5G2R1M4 F1SUG4;A0A5G2R2Y3 921 tr|F1SUG4|F1SUG4\_PIG  
Ubiquitin-like domain-containing protein OS=Sus scrofa OX=9823 GN=ELOB PE=1  
SV=1;tr|A0A5G2R2Y3|A0A5G2R2Y3\_PIG Ubiquitin-like domain-containing protein OS=Sus scrofa  
OX=9823 GN=ELOB PE=1 SV=1

18870000 13086000 24586000 34903000 22878000 25613000 23633000 20171000 38470000 46202000  
 23066000 62326000 4 4 4 39,6 39,6 39,6 12,48 0 9,5814  
 756340000 11 F1SV23 F1SV23 922 tr|F1SV23|F1SV23\_PIG Complex I-15 kDa OS=Sus  
 scrofa OX=9823 GN=NDUFS5 PE=1 SV=1  
 38165000 17192000 21591000 0 0 0 0 0 0 0 7089200 4 4  
 4 15 15 15 31,114 0 14,807 213520000 9 F1SV39;F1SV27  
 F1SV39;F1SV27 923 tr|F1SV39|F1SV39\_PIG Four and a half LIM domains 3 OS=Sus scrofa  
 OX=9823 GN=FHL3 PE=1 SV=1;tr|F1SV27|F1SV27\_PIG Four and a half LIM domains 3 OS=Sus  
 scrofa OX=9823 GN=FHL3 PE=1 SV=2  
 9222500 0 11140000 0 7203700 0 6972000 0 5388000 7782100 0 11702000  
 10 5 5 39,4 22 22 28,211 0 31,444 147300000 19 F2Z4Y1 F2Z4Y1 924  
 tr|F2Z4Y1|F2Z4Y1\_PIG Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation  
 protein eta OS=Sus scrofa OX=9823 GN=YWHAH PE=1 SV=1  
 227270000 202550000 143330000 28070000 111120000 30627000 55186000 33068000  
 33731000 31655000 29364000 54191000 13 13 7 54,3 54,3 33,2 28,302 0  
 90,118 5486000000 181 F2Z4Z1 F2Z4Z1 925 tr|F2Z4Z1|F2Z4Z1\_PIG 14\_3\_3 domain-  
 containing protein OS=Sus scrofa OX=9823 GN=YWHAG PE=1 SV=1  
 6440300 0 0 7986600 0 0 8564600 0 0 9978100 0 0 2 2  
 2 6,1 6,1 6,1 42,512 0 5,6243 61551000 7 P80229;F2Z5B1 P80229;F2Z5B1  
 926 sp|P80229|ILEU\_PIG Leukocyte elastase inhibitor OS=Sus scrofa OX=9823 GN=SERPINB1  
 PE=1 SV=1;tr|F2Z5B1|F2Z5B1\_PIG Leukocyte elastase inhibitor OS=Sus scrofa OX=9823  
 GN=SERPINB1 PE=1 SV=2  
 43697000 27496000 15166000 37771000 15511000 14197000 42868000 13016000 18940000 40488000  
 19180000 16378000 8 8 7 22,7 22,7 20,6 36,134 0 64,015  
 1285800000 70 F2Z5C1;A0A287A531;A0A5G2R3B5 F2Z5C1;A0A287A531;A0A5G2R3B5  
 927 tr|F2Z5C1|F2Z5C1\_PIG Annexin OS=Sus scrofa OX=9823 GN=ANXA5 PE=1  
 SV=4;tr|A0A287A531|A0A287A531\_PIG Annexin OS=Sus scrofa OX=9823 GN=ANXA5 PE=1  
 SV=2;tr|A0A5G2R3B5|A0A5G2R3B5\_PIG Annexin OS=Sus scrofa OX=9823 GN=ANXA5 PE=1 SV=1  
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 5,3 5,3 5,3  
 24,205 0,0032154 2,1076 25636000 2 F2Z5F5 F2Z5F5 928 tr|F2Z5F5|F2Z5F5\_PIG  
 40S ribosomal protein S8 OS=Sus scrofa OX=9823 GN=RPS8 PE=1 SV=3  
 11821000 0 8812000 13393000 8455800 13345000 10663000 0 8581600 14353000 0 7249400  
 2 2 2 15,2 15,2 15,2 13,742 0 3,6641 185140000 17 F2Z5G8  
 F2Z5G8 929 tr|F2Z5G8|F2Z5G8\_PIG 40S ribosomal protein S25 OS=Sus scrofa OX=9823  
 GN=RPS25 PE=1 SV=3  
 6132400 0 9741100 0 0 0 0 0 0 0 0 0 3 3 3 9,5  
 9,5 9,5 49,184 0,0011325 2,5943 45968000 7 F2Z5J1 F2Z5J1 930  
 tr|F2Z5J1|F2Z5J1\_PIG 26S protease regulatory subunit 4 OS=Sus scrofa OX=9823 GN=PSMC1  
 PE=1 SV=1  
 17560000 16343000 13787000 27296000 16697000 16867000 24631000 16177000 13552000 17156000  
 17526000 16910000 5 5 5 25,4 25,4 25,4 25,242 0 24,147  
 676770000 45 F2Z5K2 F2Z5K2 931 tr|F2Z5K2|F2Z5K2\_PIG Proteasome subunit alpha  
 type-5 OS=Sus scrofa OX=9823 GN=PSMA5 PE=1 SV=2

12589000 11189000 14471000 27349000 14194000 18644000 20590000 9152600 15356000 19865000  
13260000 13828000 3 3 3 19,6 19,6 19,6 20,987 0 6,2659  
375130000 23  
F2Z5K3;A0A5G2QN26;A0A5G2QA99;A0A287APX6;A0A287B931;A0A5G2RFP5;A0A286ZVJ2;  
A0A5G2QZL2  
F2Z5K3;A0A5G2QN26;A0A5G2QA99;A0A287APX6;A0A287B931;A0A5G2RFP5;A0A286ZVJ2  
932 tr|F2Z5K3|F2Z5K3\_PIG RAP1A, member of RAS oncogene family OS=Sus scrofa OX=9823  
GN=RAP1A PE=1 SV=3;tr|A0A5G2QN26|A0A5G2QN26\_PIG Uncharacterized protein OS=Sus  
scrofa OX=9823 GN=RAP1B PE=1 SV=1;tr|A0A5G2QA99|A0A5G2QA99\_PIG Uncharacterized  
protein OS=Sus scr  
0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 17,7 17,7 17,7  
11,075 0,0030457 1,7823 33094000 3 P04163;F2Z5M2 P04163;F2Z5M2 933  
sp|P04163|S10AA\_PIG Protein S100-A10 OS=Sus scrofa OX=9823 GN=S100A10 PE=1  
SV=2;tr|F2Z5M2|F2Z5M2\_PIG Calpactin I light chain OS=Sus scrofa OX=9823 GN=S100A10 PE=2  
SV=1  
5418300 5325000 6453000 0 4618300 9900800 5107500 0 6293000 0 4308000 6070700  
4 4 4 16,9 16,9 16,9 28,68 0 7,037 123300000 12  
F2Z5Q6;A0A287BPA1;F1SML8;A0A287BCW5 F2Z5Q6 934 tr|F2Z5Q6|F2Z5Q6\_PIG 40S  
ribosomal protein S6 OS=Sus scrofa OX=9823 GN=RPS6 PE=1 SV=4  
0 0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 6,3 6,3 6,3  
55,238 0 3,9309 12694000 6 Q19PY3;F2Z5V0 Q19PY3;F2Z5V0 935  
sp|Q19PY3|RTCB\_PIG RNA-splicing ligase RtcB homolog OS=Sus scrofa OX=9823 GN=RTCB  
PE=2 SV=1;tr|F2Z5V0|F2Z5V0\_PIG RNA-splicing ligase RtcB homolog OS=Sus scrofa OX=9823  
GN=RTCB PE=3 SV=1  
0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 9,9 9,9 9,9  
12,698 0,0011403 2,6693 16693000 2 F2Z5V7 F2Z5V7 936  
tr|F2Z5V7|F2Z5V7\_PIG Mitochondrial import inner membrane translocase subunit OS=Sus  
scrofa OX=9823 GN=TIMM8B PE=1 SV=2  
5350400 9672300 8633400 5864800 8578100 8238400 5617200 5742000 6029500 6569400  
4726700 9097600 4 4 4 15,2 15,2 15,2 31,62 0 8,1715  
249590000 25 F6Q2A5;Q0MVN8;Q19QT8;A0A287BRT8 F6Q2A5;Q0MVN8;Q19QT8 937  
tr|F6Q2A5|F6Q2A5\_PIG Quinone oxidoreductase OS=Sus scrofa OX=9823 GN=CRYZ PE=3  
SV=1;sp|Q0MVN8|QOR\_PIG Quinone oxidoreductase OS=Sus scrofa OX=9823 GN=CRYZ PE=2  
SV=1;tr|Q19QT8|Q19QT8\_PIG Quinone oxidoreductase OS=Sus scrofa OX=9823 GN=CRYZ PE=2  
SV=1  
0 0 11452000 0 0 21258000 0 0 7898600 0 0 11062000 5 2  
2 9,4 4,4 4,4 46,301 0 3,6256 98828000 6 F6Q469 F6Q469 938  
tr|F6Q469|F6Q469\_PIG SERPIN domain-containing protein OS=Sus scrofa OX=9823  
GN=LOC100156325 PE=1 SV=1  
8203000 0 0 7208300 0 8856400 0 0 7076100 0 7684700 7984500  
3 3 3 12,2 12,2 12,2 24,217 0 5,397 114320000 11  
F6Q5P0;P62279;A0A287ARH8 F6Q5P0;P62279 939 tr|F6Q5P0|F6Q5P0\_PIG 40S



ribosomal protein S13 OS=Sus scrofa OX=9823 GN=RPS13 PE=1 SV=4;sp|P62279|RS13\_PIG 40S  
 ribosomal protein S13 (Fragment) OS=Sus scrofa OX=9823 GN=RPS13 PE=2 SV=2  
 36431000 10610000 70335000 78312000 79048000 152490000 19134000 44310000 44434000 14843000  
 86498000 325760000 6 6 6 24 24 24 21,565 0 47,747  
 1777300000 37 F6Q6A7 F6Q6A7 940 tr|F6Q6A7|F6Q6A7\_PIG Cysteine and glycine rich  
 protein 3 OS=Sus scrofa OX=9823 GN=CSRP3 PE=1 SV=2  
 7292000 7681300 0 7054500 7142500 8008500 8968200 0 0 6103800 0 6934800  
 7 7 7 14,4 14,4 14,4 57,33 0 9,5927 237640000 19  
 F6Q936;A0A5G2QMG1 F6Q936;A0A5G2QMG1 941 tr|F6Q936|F6Q936\_PIG CCT-beta OS=Sus  
 scrofa OX=9823 GN=CCT2 PE=1 SV=1;tr|A0A5G2QMG1|A0A5G2QMG1\_PIG CCT-beta OS=Sus  
 scrofa OX=9823 GN=CCT2 PE=1 SV=1  
 15210000 13802000 14782000 5855400 9449600 11356000 10731000 7961500 13640000 8333700  
 6286400 9331100 9 9 9 20,6 20,6 20,6 56,729 0 16,864  
 445200000 43 F6QA08 F6QA08 942 tr|F6QA08|F6QA08\_PIG Protein disulfide-  
 isomerase OS=Sus scrofa OX=9823 GN=PDIA3 PE=1 SV=1  
 21963000 0 0 15652000 26749000 26278000 0 16234000 20986000 13009000 43694000  
 2 2 2 12,7 12,7 12,7 20,029 0 11,62 381740000 19  
 I3L660;A0A5G2QQU9 I3L660;A0A5G2QQU9 943 tr|I3L660|I3L660\_PIG Profilin OS=Sus  
 scrofa OX=9823 GN=PFN2 PE=1 SV=3;tr|A0A5G2QQU9|A0A5G2QQU9\_PIG Profilin OS=Sus scrofa  
 OX=9823 GN=PFN2 PE=1 SV=1  
 0 0 2649100 0 0 3213200 0 0 0 0 0 0 4 4 4 6,6  
 6,6 6,6 59,055 0 3,7779 33425000 7 I3L804 I3L804 944 tr|I3L804|I3L804\_PIG  
 Tyrosine--tRNA ligase OS=Sus scrofa OX=9823 GN=YARS1 PE=1 SV=2  
 0 0 0 0 0 0 0 0 0 0 0 0 4 4 4 4,3 4,3 4,3  
 110,65 0,0011468 2,6845 76167000 4 I3LPP4;I3L918;A0A287BD56  
 I3LPP4;I3L918;A0A287BD56 945 tr|I3LPP4|I3LPP4\_PIG Chromosome segregation 1-like  
 protein OS=Sus scrofa OX=9823 GN=CSE1L PE=1 SV=2;tr|I3L918|I3L918\_PIG Chromosome  
 segregation 1-like protein OS=Sus scrofa OX=9823 GN=CSE1L PE=1  
 SV=3;tr|A0A287BD56|A0A287BD56\_PIG Chromosome segregation 1 li  
 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 11 11 11  
 30,722 0 8,4872 58395000 2 I3L9N1 I3L9N1 946 tr|I3L9N1|I3L9N1\_PIG  
 Uncharacterized protein OS=Sus scrofa OX=9823 GN=ADPRHL1 PE=1 SV=2  
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 5,7 5,7 5,7  
 19,676 0 26,548 226750000 38 I3L9U0 I3L9U0 947 tr|I3L9U0|I3L9U0\_PIG  
 Myosin light chain 5 OS=Sus scrofa OX=9823 GN=MYL5 PE=4 SV=3  
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 7,3 7,3 7,3  
 23,521 0,0031414 1,9601 56473000 10 I3LAJ6 I3LAJ6 948 tr|I3LAJ6|I3LAJ6\_PIG  
 Small monomeric GTPase OS=Sus scrofa OX=9823 GN=RALA PE=1 SV=1  
 63653000 43236000 35948000 98056000 65924000 66454000 109470000 45878000 32968000 83391000  
 48375000 49449000 7 7 7 60,6 60,6 60,6 11,206 0 65,142  
 2792500000 101 P00819;I3LC10;A0A5G2RBE9;A0A5G2R9Q8;A0A5G2RKL2  
 P00819;I3LC10;A0A5G2RBE9;A0A5G2R9Q8;A0A5G2RKL2 949 sp|P00819|ACYP2\_PIG  
 Acylphosphatase-2 OS=Sus scrofa OX=9823 GN=ACYP2 PE=1 SV=2;tr|I3LC10|I3LC10\_PIG

Acylphosphatase OS=Sus scrofa OX=9823 GN=ACYP2 PE=3  
 SV=2;tr|A0A5G2RBE9|A0A5G2RBE9\_PIG Acylphosphatase OS=Sus scrofa OX=9823 GN=ACYP2  
 PE=3 SV=1;tr|A0A5G2R9Q8  
 0 7892800 13641000 0 0 0 0 0 0 0 0 0 7 7 7 6,5  
 6,5 6,5 153,67 0 18,527 99537000 10 I3LC73 I3LC73 950 tr|I3LC73|I3LC73\_PIG  
 Beta-ketoacyl-[acyl-carrier-protein] synthase I OS=Sus scrofa OX=9823 GN=FASN PE=1 SV=3  
 9408200 9538200 7075300 13972000 9549500 9267600 16212000 7002400 9106400 8827600  
 9191200 8207800 12 12 12 23 23 23 59,975 0 29,287  
 620520000 58 I3LCA2 I3LCA2 951 tr|I3LCA2|I3LCA2\_PIG CCT-theta OS=Sus scrofa  
 OX=9823 GN=CCT8 PE=1 SV=2  
 0 0 0 0 0 0 0 0 0 0 0 0 3 3 3 6,2 6,2 6,2  
 64,39 0 7,0331 36098000 4 I3LCW1 I3LCW1 952 tr|I3LCW1|I3LCW1\_PIG Fatty  
 acid synthase OS=Sus scrofa OX=9823 GN=FASN PE=1 SV=2  
 6981600 9016300 24277000 0 7754400 7143500 3268000 3531800 5865600 3267500 0  
 9684700 5 5 4 9 9 7,4 61,229 0 6,5328 236810000 15  
 I3LD72 I3LD72 953 tr|I3LD72|I3LD72\_PIG EH domain containing 2 OS=Sus scrofa  
 OX=9823 GN=EHD2 PE=1 SV=1  
 40419000 18176000 46097000 67270000 40806000 44936000 56693000 22337000 46813000 91903000  
 36570000 75579000 6 6 6 31,3 31,3 31,3 23,52 0 51,191  
 171740000 56 I3LDC3 I3LDC3 954 tr|I3LDC3|I3LDC3\_PIG Complex I-PDSW OS=Sus  
 scrofa OX=9823 GN=NDUFB10 PE=1 SV=2  
 204970000 92630000 56868000 120700000 66821000 52229000 234710000 80764000 72953000  
 192100000 50888000 36299000 5 5 5 17,4 17,4 17,4 20,73 0  
 9,0788 349040000 68 I3LDM7;A0A5G2QBC0 I3LDM7 955 tr|I3LDM7|I3LDM7\_PIG  
 Lactoylglutathione lyase OS=Sus scrofa OX=9823 GN=GLO1 PE=1 SV=1  
 15559000 18629000 19252000 6249300 16850000 0 16420000 11750000 15577000 11581000 14238000  
 10670000 5 5 4 17,1 17,1 14 37,501 0 17,367 500140000 37  
 I3LEC2 I3LEC2 956 tr|I3LEC2|I3LEC2\_PIG Uncharacterized protein OS=Sus scrofa  
 OX=9823 GN=PCBP1 PE=1 SV=1  
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 2,1 2,1 2,1  
 48,597 0,0095511 1,3631 0 1 I3LEF2 I3LEF2 957 tr|I3LEF2|I3LEF2\_PIG  
 Nucleoredoxin OS=Sus scrofa OX=9823 GN=NXN PE=1 SV=2  
 0 0 0 8370700 7651600 0 12229000 0 7257200 8697200 8310900 13488000  
 5 5 5 10,5 10,5 10,5 56,775 0 8,7213 187120000 16  
 K7GKH7;I3LEH4;Q6PLK3;A0A287A039;A0A5G2R723;A0A5G2QUP3;A0A5G2QTH6;Q6Q2J0;  
 A0A5G2QF04;A0A5G2R0E5;F1RX00 K7GKH7;I3LEH4;Q6PLK3;A0A287A039 958  
 tr|K7GKH7|K7GKH7\_PIG Amine oxidase OS=Sus scrofa OX=9823 GN=MAOB PE=1  
 SV=2;tr|I3LEH4|I3LEH4\_PIG Amine oxidase OS=Sus scrofa OX=9823 GN=MAOB PE=1  
 SV=3;sp|Q6PLK3|AOFB\_PIG Amine oxidase [flavin-containing] B OS=Sus scrofa OX=9823  
 GN=MAOB PE=2 SV=3;tr|A0A287A0  
 13229000 0 17677000 0 0 23051000 0 0 0 0 0 3 3 3  
 18,4 18,4 18,4 21,577 0 6,9274 146170000 12 I3LEI8 I3LEI8 959

tr|I3LEI8|I3LEI8\_PIG 1,2-dihydroxy-3-keto-5-methylthiopentene dioxygenase OS=Sus scrofa  
OX=9823 GN=ADI1 PE=1 SV=1  
0 0 835620 0 0 0 0 0 0 0 0 1142000 2 2 1 4,8  
4,8 2,7 60,572 0 3,1299 4720000 6 I3LHS9;I3LF61 I3LHS9;I3LF61 960  
tr|I3LHS9|I3LHS9\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 GN=CYP4F8 PE=3  
SV=3;tr|I3LF61|I3LF61\_PIG Uncharacterized protein OS=Sus scrofa OX=9823 GN=CYP4F8 PE=3  
SV=3  
0 0 7497300 6703500 0 0 7135500 0 14916000 10964000 7092600 12169000  
2 2 2 18,4 18,4 18,4 14,672 0 7,6145 139300000 8 I3LGM4 I3LGM4 961  
tr|I3LGM4|I3LGM4\_PIG Complex I-B14.7 OS=Sus scrofa OX=9823 GN=NDUFA11 PE=1 SV=1  
42028000 6288000 0 10118000 9236600 0 16510000 68961000 9144600 10185000 25291000 0  
8 8 8 27,4 27,4 27,4 55,318 0 72,297 596040000 16 I3LIE7  
I3LIE7 962 tr|I3LIE7|I3LIE7\_PIG Myosin-binding protein H OS=Sus scrofa OX=9823  
GN=MYBPH PE=4 SV=2  
56376000 56342000 41623000 16251000 43400000 21993000 34420000 20395000 23480000 17930000  
18653000 25286000 22 22 22 24,2 24,2 24,2 95,835 0 54,545  
3548100000 131 I3LII3;A0A287A5P3;A0A5G2R2F7;F1RQZ9 I3LII3 963  
tr|I3LII3|I3LII3\_PIG Eukaryotic translation elongation factor 2 OS=Sus scrofa OX=9823  
GN=EEF2 PE=1 SV=3  
17942000 0 64419000 8145400 29958000 49484000 0 24932000 31789000 12948000 40250000  
106260000 4 4 4 19,7 19,7 19,7 15,368 0 8,2659 730020000  
25 I3LJI1 I3LJI1 964 tr|I3LJI1|I3LJI1\_PIG Cytochrome c oxidase subunit NDUFA4  
OS=Sus scrofa OX=9823 GN=NDUFA4 PE=1 SV=1  
0 0 8983500 10481000 8312100 17171000 18319000 0 6275700 11652000 0 28839000  
3 3 3 9,2 9,2 9,2 32,4 0 11,084 191330000 12 I3LJJ4;A0A287AE42  
I3LJJ4;A0A287AE42 965 tr|I3LJJ4|I3LJJ4\_PIG Enoyl-CoA hydratase 1 OS=Sus scrofa  
OX=9823 GN=ECH1 PE=1 SV=2;tr|A0A287AE42|A0A287AE42\_PIG Enoyl-CoA hydratase 1 OS=Sus  
scrofa OX=9823 GN=ECH1 PE=1 SV=1  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 6,6 6,6 6,6  
21,608 0 3,0683 56806000 2 I3LNC7 I3LNC7 966 tr|I3LNC7|I3LNC7\_PIG Protein  
Hikeshi OS=Sus scrofa OX=9823 GN=HIKESHI PE=1 SV=2  
0 0 33631000 0 16191000 0 0 0 0 12981000 10667000 13839000 3  
3 3 18,9 18,9 18,9 22,213 0 9,4114 247000000 10 I3LQH7;A0A5G2R5C4  
I3LQH7;A0A5G2R5C4 967 tr|I3LQH7|I3LQH7\_PIG Biliverdin reductase B OS=Sus scrofa  
OX=9823 GN=BLVRB PE=1 SV=2;tr|A0A5G2R5C4|A0A5G2R5C4\_PIG Biliverdin reductase B  
OS=Sus scrofa OX=9823 GN=BLVRB PE=1 SV=1  
44735000 37700000 32098000 57473000 27535000 35421000 64492000 32455000 35669000 81468000  
29983000 34978000 6 6 6 24,2 24,2 24,2 29,048 0 29,561  
2022700000 95 I3LR51;A0A287B1N7 I3LR51;A0A287B1N7 968 tr|I3LR51|I3LR51\_PIG  
Peptidylprolyl isomerase OS=Sus scrofa OX=9823 GN=FKBP3 PE=1  
SV=2;tr|A0A287B1N7|A0A287B1N7\_PIG Peptidylprolyl isomerase OS=Sus scrofa OX=9823  
GN=FKBP3 PE=1 SV=1

43457000 10298000 39890000 7787900 11485000 13425000 11882000 7701200 23019000 14404000  
9723300 15689000 21 21 21 20,2 20,2 20,2 137,01 0 86,553  
1796400000 120 I3LUI1 I3LUI1 969 tr|I3LUI1|I3LUI1\_PIG Immunoglobulin like and  
fibronectin type III domain containing 1 OS=Sus scrofa OX=9823 GN=IGFN1 PE=4 SV=3  
0 0 0 0 0 0 0 0 0 0 0 0 4 4 4 10,4 10,4 10,4  
51,065 0 4,6046 38969000 5 I3LUM9;A0A5G2RIT4;F1SPY4;A0A287APW7  
I3LUM9;A0A5G2RIT4;F1SPY4;A0A287APW7 970 tr|I3LUM9|I3LUM9\_PIG Protein-  
synthesizing GTPase OS=Sus scrofa OX=9823 GN=EIF2S3 PE=1  
SV=1;tr|A0A5G2RIT4|A0A5G2RIT4\_PIG Protein-synthesizing GTPase OS=Sus scrofa OX=9823  
GN=LOC100624149 PE=4 SV=1;tr|F1SPY4|F1SPY4\_PIG Protein-synthesizing GTPase OS=Sus scro  
67238000 0 53658000 54962000 81972000 60514000 61907000 78168000 56969000 47205000 75424000  
45996000 4 4 4 24,9 24,9 24,9 21,768 0 7,3068 1420900000 22  
I3LVS7;A0A5G2QN15;F2Z5K4;Q06AT8 I3LVS7;A0A5G2QN15;F2Z5K4 971  
tr|I3LVS7|I3LVS7\_PIG Ras homolog family member A OS=Sus scrofa OX=9823 GN=RHOA  
PE=1 SV=1;tr|A0A5G2QN15|A0A5G2QN15\_PIG Ras homolog family member C OS=Sus scrofa  
OX=9823 GN=RHOC PE=1 SV=1;tr|F2Z5K4|F2Z5K4\_PIG Ras homolog family member C OS=Sus  
scrofa OX=9823  
39298000 42360000 41935000 36636000 22688000 39114000 36701000 10815000 23182000 21754000  
19463000 29862000 14 14 14 43,4 43,4 43,4 38,422 0 94,48  
1932800000 95  
P19620;K7GKR6;F1S073;A0A287BI04;A0A286ZJV6;A0A5G2QCF9;A0A287AC54  
P19620;K7GKR6;F1S073;A0A287BI04;A0A286ZJV6;A0A5G2QCF9 972  
sp|P19620|ANXA2\_PIG Annexin A2 OS=Sus scrofa OX=9823 GN=ANXA2 PE=1  
SV=4;tr|K7GKR6|K7GKR6\_PIG Annexin OS=Sus scrofa OX=9823 GN=ANXA2 PE=1  
SV=1;tr|F1S073|F1S073\_PIG Annexin OS=Sus scrofa OX=9823 GN=ANXA2 PE=1  
SV=3;tr|A0A287BI04|A0A287BI04\_PIG Annexin OS=Sus  
0 0 0 0 0 2678600 0 0 2621500 0 0 3390000 2 2 2  
2 2 2 105,3 0,0021668 2,2034 22091000 4 K7GLU6 K7GLU6 973  
tr|K7GLU6|K7GLU6\_PIG Aminopeptidase OS=Sus scrofa OX=9823 GN=ERAP1 PE=1 SV=3  
64089000 21713000 29501000 34296000 14613000 67319000 45616000 16675000 23183000 39044000  
16035000 41066000 14 14 14 47,2 47,2 47,2 30,33 0 38,773  
1986100000 85 K7GM40;P18648;A0A286ZQC7;CON\_P15497  
K7GM40;P18648;A0A286ZQC7 974 tr|K7GM40|K7GM40\_PIG Apolipoprotein A-I OS=Sus  
scrofa OX=9823 GN=APOA1 PE=3 SV=2;sp|P18648|APOA1\_PIG Apolipoprotein A-I OS=Sus scrofa  
OX=9823 GN=APOA1 PE=1 SV=4;tr|A0A286ZQC7|A0A286ZQC7\_PIG Apolipoprotein A-I OS=Sus  
scrofa OX=9823 GN=APOA1 PE=3 SV=2  
0 0 10509000 0 6791100 7125600 0 0 0 0 12940000 3 3  
3 13 13 13 30,787 0 6,3312 102630000 11 K7GP28;A0A5G2QSR2  
K7GP28;A0A5G2QSR2 975 tr|K7GP28|K7GP28\_PIG Hydroxysteroid 17-beta dehydrogenase  
10 OS=Sus scrofa OX=9823 GN=HSD17B10 PE=1 SV=1;tr|A0A5G2QSR2|A0A5G2QSR2\_PIG  
Hydroxysteroid 17-beta dehydrogenase 10 OS=Sus scrofa OX=9823 GN=HSD17B10 PE=1 SV=1  
55588000 0 94458000 117580000 0 0 107310000 0 0 139640000 0  
143700000 2 2 2 11 11 11 14,752 0,0021834 2,2703

1729900000 24 K7GS22 K7GS22 976 tr|K7GS22|K7GS22\_PIG Uncharacterized protein  
OS=Sus scrofa OX=9823 GN=ATP5F1E PE=1 SV=1  
15845000 9624400 20372000 22576000 14209000 23386000 13151000 15570000 23588000 28187000  
23359000 46268000 4 4 4 19,5 19,5 19,5 26,301 0 15,512  
448820000 37 K7GSE5;A0A5G2QSA7;A0A5G2R954 K7GSE5;A0A5G2QSA7;A0A5G2R954  
977 tr|K7GSE5|K7GSE5\_PIG Complex I-B22 OS=Sus scrofa OX=9823 GN=NDUFB9 PE=1  
SV=2;tr|A0A5G2QSA7|A0A5G2QSA7\_PIG Complex I-B22 OS=Sus scrofa OX=9823 GN=NDUFB9  
PE=1 SV=1;tr|A0A5G2R954|A0A5G2R954\_PIG Complex I-B22 OS=Sus scrofa OX=9823  
GN=NDUFB9 PE=1 SV=1  
0 0 0 27140000 0 0 29024000 0 17783000 26085000 0 0 3 3  
3 30,5 30,5 30,5 12,895 0 23,238 257260000 24 K9IVW4;A0A286ZSZ3  
K9IVW4;A0A286ZSZ3 978 tr|K9IVW4|K9IVW4\_PIG Myotrophin OS=Sus scrofa OX=9823  
GN=MTPN PE=1 SV=1;tr|A0A286ZSZ3|A0A286ZSZ3\_PIG Myotrophin OS=Sus scrofa OX=9823  
GN=MTPN PE=1 SV=1  
0 0 5560600 0 0 7423200 0 0 6309000 0 6696600 10825000 3  
3 3 8,8 8,8 8,8 54,247 0 13,578 93226000 10 M3UZ54;A0A287AM51;F1SBP8  
M3UZ54 979 tr|M3UZ54|M3UZ54\_PIG Monocarboxylate transporter 1 OS=Sus scrofa  
OX=9823 GN=SLC16A1 PE=1 SV=1  
206730000 105350000 461700000 479110000 343630000 395020000 446370000  
143670000 218440000 540510000 268700000 721660000 8 8  
8 48,9 48,9 48,9 14,749 0 29,379 14578000000 126  
O02772;A0A287B9U4;F1STV2;I3LTW5 O02772 980 sp|O02772|FABPH\_PIG Fatty acid-  
binding protein, heart OS=Sus scrofa OX=9823 GN=FABP3 PE=2 SV=3  
0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 8,9 8,9 8,9  
13,79 0 8,7236 50746000 10 O62680 O62680 981 sp|O62680|CD59\_PIG CD59  
glycoprotein OS=Sus scrofa OX=9823 GN=CD59 PE=1 SV=1  
18510000 7935800 22456000 12078000 7567400 17329000 14412000 0 8839000 25660000 0  
15367000 9 9 9 20,1 20,1 20,1 59,771 0 20,015 495550000 45  
O62839;F1SGS9;A0A287A2C3 O62839;F1SGS9;A0A287A2C3 982 sp|O62839|CATA\_PIG  
Catalase OS=Sus scrofa OX=9823 GN=CAT PE=1 SV=4;tr|F1SGS9|F1SGS9\_PIG Catalase OS=Sus  
scrofa OX=9823 GN=CAT PE=1 SV=3;tr|A0A287A2C3|A0A287A2C3\_PIG Catalase OS=Sus scrofa  
OX=9823 GN=CAT PE=1 SV=1  
0 0 5188300 3441700 0 0 3691100 0 0 6771600 0 14944000 1  
1 1 13 13 13 12,993 0,0022297 2,4467 90726000 5 O79880 O79880 983  
sp|O79880|NU3M\_PIG NADH-ubiquinone oxidoreductase chain 3 OS=Sus scrofa OX=9823  
GN=MT-ND3 PE=1 SV=1  
0 0 0 0 8058200 11984000 0 0 0 0 0 0 2 2 2 3,1  
3,1 3,1 51,824 0,0031153 1,9016 69662000 2 O79881 O79881 984  
sp|O79881|NU4M\_PIG NADH-ubiquinone oxidoreductase chain 4 OS=Sus scrofa OX=9823  
GN=MT-ND4 PE=1 SV=2  
39770000 39416000 40768000 8614600 8295600 23591000 22476000 6890500 21102000 19098000  
7924100 27945000 7 7 6 44,7 44,7 35,6 14,676 0 29,631

1196300000 62 O97788 O97788 985 sp|O97788|FABP4\_PIG Fatty acid-binding protein, adipocyte OS=Sus scrofa OX=9823 GN=FABP4 PE=1 SV=3

3829500000 1211600000 5243700000 4996300000 10150000000 5632200000 5184100000  
15817000000 6705700000 3374600000 11208000000 3693800000 16 16  
14 53,5 53,5 46,2 35,836 0 323,31 341230000000 2284  
P00355;A0A287BG23;A0A286ZVK5;A0A5S8K8F1;A0A286ZQE4

P00355;A0A287BG23;A0A286ZVK5;A0A5S8K8F1;A0A286ZQE4 986 sp|P00355|G3P\_PIG Glyceraldehyde-3-phosphate dehydrogenase OS=Sus scrofa OX=9823 GN=GAPDH PE=1 SV=4;tr|A0A287BG23|A0A287BG23\_PIG Glyceraldehyde-3-phosphate dehydrogenase OS=Sus scrofa OX=9823 GN=GAPDH PE=3 SV=1;tr|A0A286ZVK5|A0A286ZVK5\_PIG Glyceraldehyde-3  
59538000 97450000 320370000 116070000 228510000 229300000 73590000 138960000  
151500000 107070000 252030000 399660000 21 21 21 59,8 59,8  
59,8 46,474 0 158,67 16166000000 261 P00503 P00503 987 sp|P00503|AATC\_PIG Aspartate aminotransferase, cytoplasmic OS=Sus scrofa OX=9823 GN=GOT1 PE=1 SV=3

42968000 70924000 132460000 99586000 133050000 107890000 67527000 84872000  
119350000 107510000 126790000 184430000 14 14 14 27,4 27,4  
27,4 51,629 0 49,746 7493400000 173 P00889;A0A286ZKX2 P00889;A0A286ZKX2  
988 sp|P00889|CISY\_PIG Citrate synthase, mitochondrial OS=Sus scrofa OX=9823 GN=CS PE=1 SV=2;tr|A0A286ZKX2|A0A286ZKX2\_PIG Citrate synthase OS=Sus scrofa OX=9823 GN=CS PE=1 SV=2

2238900000 1332600000 5032100000 6082200000 3052600000 5189700000 4587900000  
2366000000 2593100000 7130300000 3528900000 9329500000 11 11  
11 61 61 61 17,084 0 174,36 155980000000 2282P02189 P02189 989  
sp|P02189|MYG\_PIG Myoglobin OS=Sus scrofa OX=9823 GN=MB PE=1 SV=2

0 0 10276000 0 0 0 0 0 0 15394000 4 4 4 9,3  
9,3 9,3 53,628 0 12,911 81204000 8 P02540;A0A287BSR0 P02540;A0A287BSR0  
990 sp|P02540|DESM\_PIG Desmin OS=Sus scrofa OX=9823 GN=DES PE=1 SV=4;tr|A0A287BSR0|A0A287BSR0\_PIG Desmin OS=Sus scrofa OX=9823 GN=DES PE=1 SV=1

0 2918100 0 0 0 0 0 91711000 6091700 0 12103000 1969500 10  
1 0 56 7,5 0 18,025 0 6,6917 288670000 22 P02587 P02587 991  
sp|P02587|TNNC2\_PIG Troponin C, skeletal muscle OS=Sus scrofa OX=9823 GN=TNNC2 PE=1 SV=2

124760000 80971000 127590000 250940000 111160000 169770000 251270000  
100500000 99358000 215250000 117610000 165550000 5 5 5  
37,9 37,9 37,9 15,892 0 14,094 5037800000 98 P04178;A0A2C9F3F0  
P04178;A0A2C9F3F0 992 sp|P04178|SODC\_PIG Superoxide dismutase [Cu-Zn] OS=Sus scrofa OX=9823 GN=SOD1 PE=1 SV=2;tr|A0A2C9F3F0|A0A2C9F3F0\_PIG Superoxide dismutase [Cu-Zn] OS=Sus scrofa OX=9823 GN=SOD1 PE=3 SV=2

138210000 131680000 119320000 134590000 108650000 189250000 138450000  
88445000 70460000 141270000 124040000 123590000 41 41 35 57  
57 47,3 76,967 0 323,31 19159000000 583  
P09571;A0A288CFV5;A0A5G2R5N9;A0A5G2RBB4;A0A5G2QUQ4;Q6YT39;P14632;CON\_\_Q2  
HJF0 P09571;A0A288CFV5;A0A5G2R5N9;A0A5G2RBB4 994 sp|P09571|TRFE\_PIG

Serotransferrin OS=Sus scrofa OX=9823 GN=TF PE=1 SV=2;tr|A0A288CFV5|A0A288CFV5\_PIG Beta-1 metal-binding globulin OS=Sus scrofa OX=9823 GN=TF PE=3 SV=2;tr|A0A5G2R5N9|A0A5G2R5N9\_PIG Beta-1 metal-binding globulin OS=Sus scrofa OX=9823 GN=TF

7790200 7300700 9059800 19947000 6626200 8524100 14693000 12972000 13860000 18503000  
7434400 9491000 3 3 3 24,5 24,5 24,5 11,828 0 13,263  
320480000 34 P12309 P12309 995 sp|P12309|GLRX1\_PIG Glutaredoxin-1 OS=Sus scrofa OX=9823 GN=GLRX PE=1 SV=2

55621000 32648000 46020000 113130000 50903000 47356000 107450000 37022000 45863000  
155440000 53870000 104020000 8 8 8 75 75 75 8,9299 0  
81,883 251070000 85 P13618;A0A287ACM8;A0A287B441  
P13618;A0A287ACM8;A0A287B441 996 sp|P13618|ATP5J\_PIG ATP synthase-coupling factor 6, mitochondrial OS=Sus scrofa OX=9823 GN=ATP5PF PE=1 SV=1;tr|A0A287ACM8|A0A287ACM8\_PIG ATP synthase-coupling factor 6, mitochondrial OS=Sus scrofa OX=9823 GN=ATP5PF PE=3 SV=1;tr|A0A287B441|A0A287B441\_PIG AT

0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 7,1 7,1 7,1  
28,054 0,0031088 1,8846 0 2  
P15980;A0A287BMG0;A0A287B797;A0A286ZN51;Q7YQ94;P15981  
P15980;A0A287BMG0;A0A287B797;A0A286ZN51;Q7YQ94;P15981 997 sp|P15980|HA2C\_PIG SLA class II histocompatibility antigen, DQ haplotype C alpha chain OS=Sus scrofa OX=9823 PE=2 SV=1;tr|A0A287BMG0|A0A287BMG0\_PIG Ig-like domain-containing protein OS=Sus scrofa OX=9823 GN=SLA-DQA1 PE=4 SV=1;tr|A0A287B797|A0A287B797\_PIG I

0 0 0 8405100 0 0 9100700 0 0 9611600 0 0 2 2 2  
7,4 7,4 7,4 29,262 0,0050251 1,6755 51877000 4  
P15983;F6PX38;Q8MGP9;P15982;A0A5G2QCN4  
P15983;F6PX38;Q8MGP9;P15982;A0A5G2QCN4 998 sp|P15983|HB2D\_PIG SLA class II histocompatibility antigen, DQ haplotype D beta chain OS=Sus scrofa OX=9823 PE=2 SV=1;tr|F6PX38|F6PX38\_PIG Ig-like domain-containing protein OS=Sus scrofa OX=9823 GN=SLA-DQB1 PE=1 SV=1;tr|Q8MGP9|Q8MGP9\_PIG HLA class II histo

52695000 108410000 195180000 119770000 159900000 170090000 89141000  
106450000 175150000 95165000 169360000 308550000 27 27 1  
41 41 1,9 85,76 0 233,83 19984000000 457 P16276 P16276 999  
sp|P16276|ACON\_PIG Aconitate hydratase, mitochondrial OS=Sus scrofa OX=9823 GN=ACO2 PE=1 SV=1

10441000 40360000 35091000 508910 23311000 37869000 0 31438000 40460000 1817500 28281000  
25674000 63 63 62 14,7 14,7 14,5 565,33 0 270,15 501330000 389  
P16960 P16960 1000sp|P16960|RYR1\_PIG Ryanodine receptor 1 OS=Sus scrofa OX=9823 GN=RYR1 PE=2 SV=2

9489600 0 5586800 9579200 0 0 10998000 0 0 8774600 0 4573400  
2 1 1 50 33,3 33,3 4,8234 0 5,7124 111650000 12 P21753 P21753 1001  
sp|P21753|TYB10\_PIG Thymosin beta-10 OS=Sus scrofa OX=9823 GN=TMSB10 PE=1 SV=2

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 2,4 2,4 2,4  
42,811 0,0022198 2,3866 95864000 12 Q1HBG9;P24964 Q1HBG9;P24964 1002

tr|Q1HBG9|Q1HBG9\_PIG Cytochrome b OS=Sus scrofa OX=9823 GN=cytb PE=1  
SV=1;sp|P24964|CYB\_PIG Cytochrome b OS=Sus scrofa OX=9823 GN=MT-CYB PE=3 SV=2  
31965000 19562000 19743000 27541000 18412000 28162000 32538000 14778000 20541000 26114000  
17048000 20277000 32 32 32 32,1 32,1 32,1 123,94 0 138,46  
3005700000 182 P26234;A0A5G2RBX6;A0A2C9F393;A0A287BSL4  
P26234;A0A5G2RBX6;A0A2C9F393;A0A287BSL4 1003sp|P26234|VINC\_PIG Vinculin  
OS=Sus scrofa OX=9823 GN=VCL PE=1 SV=4;tr|A0A5G2RBX6|A0A5G2RBX6\_PIG Metavinculin  
OS=Sus scrofa OX=9823 GN=VCL PE=1 SV=1;tr|A0A2C9F393|A0A2C9F393\_PIG Metavinculin  
OS=Sus scrofa OX=9823 GN=VCL PE=1 SV=1;tr|A0A287BSL4|A0A287BSL4\_PI  
25165000 10323000 16006000 5419200 11099000 10996000 30105000 6410000 11536000 25265000  
8093600 7351400 9 9 9 23,3 23,3 23,3 48,287 0 43,3 903540000  
33 P28491;A0A287B0P6;A0A287AG29 P28491;A0A287B0P6;A0A287AG29 1004  
sp|P28491|CALR\_PIG Calreticulin OS=Sus scrofa OX=9823 GN=CALR PE=1  
SV=3;tr|A0A287B0P6|A0A287B0P6\_PIG Calreticulin OS=Sus scrofa OX=9823 GN=CALR PE=1  
SV=1;tr|A0A287AG29|A0A287AG29\_PIG Calreticulin OS=Sus scrofa OX=9823 GN=CALR PE=1  
SV=2  
7068400 5792400 7156700 6925400 5699600 0 6271600 5038200 7483500 0 6412600  
6498600 2 2 2 13,6 13,6 13,6 14,515 0,0050201 1,6607  
144910000 13 P46405 P46405 1005sp|P46405|RS12\_PIG 40S ribosomal protein S12  
OS=Sus scrofa OX=9823 GN=RPS12 PE=1 SV=2  
0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 2,7 2,7 2,7  
42,03 0 2,9988 40064000 3 P46410 P46410 1006sp|P46410|GLNA\_PIG  
Glutamine synthetase OS=Sus scrofa OX=9823 GN=GLUL PE=2 SV=3  
42204000 96723000 198180000 115100000 240410000 206930000 67534000 142630000  
232020000 79839000 204740000 308900000 5 5 5 21,9 21,9 21,9  
26,184 0 18,821 4238900000 105 P50667;Q69GF7 P50667;Q69GF7 1007  
sp|P50667|COX2\_PIG Cytochrome c oxidase subunit 2 OS=Sus scrofa OX=9823 GN=MT-CO2  
PE=3 SV=1;tr|Q69GF7|Q69GF7\_PIG Cytochrome c oxidase subunit 2 OS=Sus scrofa OX=9823  
GN=MT-CO2 PE=1 SV=1  
50004000 25102000 57089000 40497000 20716000 79574000 49681000 56908000 30060000 45823000  
51108000 48258000 8 8 8 22,4 22,4 22,4 51,305 0 23,341  
1368900000 56 P50828;A0A5G2QGR8;F1RMN7;A0A5G2QRQ8;A0A5G2QSB7  
P50828;A0A5G2QGR8;F1RMN7;A0A5G2QRQ8;A0A5G2QSB7 1008sp|P50828|HEMO\_PIG  
Hemopexin OS=Sus scrofa OX=9823 GN=HPX PE=1 SV=1;tr|A0A5G2QGR8|A0A5G2QGR8\_PIG  
Hemopexin OS=Sus scrofa OX=9823 GN=HPX PE=3 SV=1;tr|F1RMN7|F1RMN7\_PIG Hemopexin  
OS=Sus scrofa OX=9823 GN=HPX PE=3 SV=3;tr|A0A5G2QRQ8|A0A5G2QRQ8\_PIG Hemopexin O  
39445000 38349000 46882000 0 39330000 11656000 10667000 13133000 13562000 0 11922000  
37955000 4 4 4 36,5 36,5 36,5 13,931 0 8,2631 481150000 31  
P59083 P59083 1009sp|P59083|PHP14\_PIG 14 kDa phosphohistidine phosphatase OS=Sus  
scrofa OX=9823 GN=PHPT1 PE=1 SV=2  
16304000 0 57122000 50880000 53586000 70608000 48816000 16812000 34081000 39209000 35552000  
86210000 1 1 1 21,2 21,2 21,2 6,0804 0 6,7773 881900000 56



P61013 P61013 1010sp|P61013|PPLA\_PIG Cardiac phospholamban OS=Sus scrofa OX=9823  
GN=PLN PE=1 SV=1  
56053000 0 10946000 16766000 3256800 18180000 8499100 5329900 7485200 30457000 6633400  
9110100 6 6 6 53,4 53,4 53,4 11,367 0 15,554 628570000 38  
P62802 P62802 1011sp|P62802|H4\_PIG Histone H4 OS=Sus scrofa OX=9823 PE=1 SV=2  
108040000 105790000 32827000 14297000 49775000 16240000 62348000 71241000 55991000  
41985000 50013000 24344000 6 6 5 36,6 36,6 31,1 17,869 0 17,672  
1525600000 72  
P62936;A0A5S6GHG5;A0A5G2QWG7;A0A5G2QIR3;A0A287AH51;A0A287A343  
P62936;A0A5S6GHG5;A0A5G2QWG7;A0A5G2QIR3 1012sp|P62936|PPIA\_PIG Peptidyl-  
prolyl cis-trans isomerase A OS=Sus scrofa OX=9823 GN=PPIA PE=1  
SV=2;tr|A0A5S6GHG5|A0A5S6GHG5\_PIG Peptidyl-prolyl cis-trans isomerase OS=Sus scrofa  
OX=9823 GN=PPIA PE=3 SV=1;tr|A0A5G2QWG7|A0A5G2QWG7\_PIG Peptidyl-prolyl cis-trans  
0 0 0 0 0 5648400 0 0 0 6607600 0 0 1 1 1 12  
12 12 9,1113 0,0031056 1,8713 70087000 6 P63221 P63221 1013  
sp|P63221|RS21\_PIG 40S ribosomal protein S21 OS=Sus scrofa OX=9823 GN=RPS21 PE=1 SV=1  
0 0 9373600 0 0 11322000 0 0 9374000 0 7638700 0 3 3  
3 10,7 10,7 10,7 35,076 0 15,936 99804000 12 P63246;A0A286ZLL3  
P63246;A0A286ZLL3 1014sp|P63246|RACK1\_PIG Receptor of activated protein C kinase 1  
OS=Sus scrofa OX=9823 GN=RACK1 PE=1 SV=3;tr|A0A286ZLL3|A0A286ZLL3\_PIG Receptor of-  
activated protein C kinase 1 OS=Sus scrofa OX=9823 GN=RACK1 PE=1 SV=2  
103130000 12976000 255910000 123830000 74272000 145280000 64880000 46558000  
74323000 54985000 75393000 249990000 5 5 5 31,1 31,1 31,1 18,416  
0 83,618 2551700000 65 P63317;A0A287AIU7 P63317;A0A287AIU7 1015  
sp|P63317|TNNC1\_PIG Troponin C, slow skeletal and cardiac muscles OS=Sus scrofa OX=9823  
GN=TNNC1 PE=1 SV=1;tr|A0A287AIU7|A0A287AIU7\_PIG Troponin C, slow skeletal and cardiac  
muscles OS=Sus scrofa OX=9823 GN=TNNC1 PE=1 SV=1  
0 0 0 0 0 0 0 0 0 0 0 0 12 1 0 35,1 5,6 0  
28,521 0 5,6721 25825000 3 P67937;A0A5G2QY33 P67937;A0A5G2QY33 1016  
sp|P67937|TPM4\_PIG Tropomyosin alpha-4 chain OS=Sus scrofa OX=9823 GN=TPM4 PE=2  
SV=3;tr|A0A5G2QY33|A0A5G2QY33\_PIG Tropomyosin alpha-4 chain OS=Sus scrofa OX=9823  
GN=TPM4 PE=1 SV=1  
902310000 2213700000 607520000 1748100000 853630000 2026800000 696370000  
1215800000 632640000 558470000 814000000 492440000 16 16  
8 58,4 58,4 36,3 42,051 0 159,18 76893000000 634  
P68137;A0A5S6G831;A0A287BF33;A0A5S6IE01;A0A5G2QKZ4;F6Q364;B6VNT8;C7AI81;A0A2  
87AXB6;A0A287AVS8;A0A5G2R0X5;A0A480K2S5;A0A287A6R7;A0A5G2QX85;F1SLG5;A0A286Z  
WJ1;A0A287BGY0;A0A5G2QZ37;A0A5G2QIZ5;A0A5G2QY90;A0A287B0H6;A0A5G2QID5  
P68137;A0A5S6G831;A0A287BF33;A0A5S6IE01;A0A5G2QKZ4;F6Q364;B6VNT8;C7AI81;A0A2  
87AXB6;A0A287AVS8;A0A5G2R0X5;A0A480K2S5;A0A287A6R7;A0A5G2QX85;F1SLG5;A0A286Z  
WJ1;A0A287BGY0;A0A5G2QZ37;A0A5G2QIZ5;A0A5G2QY90;A0A287B0H6;A0A5G2QID5 1017  
sp|P68137|ACTS\_PIG Actin, alpha skeletal muscle OS=Sus scrofa OX=9823 GN=ACTA1 PE=1

SV=1;tr|A0A5S6G831|A0A5S6G831\_PIG Actin, alpha skeletal muscle OS=Sus scrofa OX=9823  
GN=ACTA1 PE=3 SV=1;tr|A0A287BF33|A0A287BF33\_PIG Actin, alpha skeletal muscle OS=Sus scr  
12548000 13459000 23053000 17361000 28803000 17504000 12478000 20783000 23309000 21741000  
28350000 47092000 10 10 10 25,3 25,3 25,3 47,956 0 86,026  
959590000 52 P79274 P79274 1018sp|P79274|ACADL\_PIG Long-chain specific acyl-  
CoA dehydrogenase, mitochondrial OS=Sus scrofa OX=9823 GN=ACADL PE=2 SV=1  
48396000 37134000 87002000 51200000 58290000 98531000 42911000 42645000 56270000 53691000  
51954000 104770000 12 12 12 38,3 38,3 38,3 35,868 0 43,096  
4382400000 92 P80276;A0A287A5M7;A0A5G2R274;A0A5S6HCI3;A0A286ZQQ7;P82125  
P80276;A0A287A5M7;A0A5G2R274 1019sp|P80276|ALDR\_PIG Aldo-keto reductase family 1  
member B1 OS=Sus scrofa OX=9823 GN=AKR1B1 PE=1 SV=2;tr|A0A287A5M7|A0A287A5M7\_PIG  
Aldo-keto reductase family 1 member B1 OS=Sus scrofa OX=9823 GN=AKR1B1 PE=3  
SV=2;tr|A0A5G2R274|A0A5G2R274\_PIG Aldo-keto reducta  
29692000 45023000 0 39577000 0 34389000 41406000 0 0 49974000 0 34953000  
7 7 7 24,6 24,6 24,6 30,83 0 13,828 553490000 30  
P83686;A0A5G2QPB6;A0A5G2R3P5;F1SJQ5 P83686;A0A5G2QPB6;A0A5G2R3P5;F1SJQ5  
1020sp|P83686|NB5R3\_PIG NADH-cytochrome b5 reductase 3 (Fragment) OS=Sus scrofa  
OX=9823 GN=CYB5R3 PE=1 SV=1;tr|A0A5G2QPB6|A0A5G2QPB6\_PIG NADH-cytochrome b5  
reductase OS=Sus scrofa OX=9823 GN=CYB5R3 PE=1 SV=1;tr|A0A5G2R3P5|A0A5G2R3P5\_PIG  
Cytochrome-b5 reductase  
0 0 0 0 0 0 0 0 0 0 0 0 0 2 1 1 11 5,2 5,2  
21,258 0 3,2823 199100000 11 Q007T2 Q007T2 1021sp|Q007T2|CDC42\_PIG  
Cell division control protein 42 homolog OS=Sus scrofa OX=9823 GN=CDC42 PE=2 SV=2  
0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 6,4 6,4 6,4  
22,724 0,0040241 1,7138 9123900 1 Q03472 Q03472 1022sp|Q03472|APOR\_PIG  
Apolipoprotein R OS=Sus scrofa OX=9823 GN=APOR PE=1 SV=1  
336790000 237490000 240950000 576180000 225340000 253750000 588500000  
226390000 223920000 561280000 261320000 245010000 14 14  
14 63,5 63,5 63,5 19,936 0 58,571 21992000000 353 Q0R678;A0A5G2QIK1  
Q0R678;A0A5G2QIK1 1023tr|Q0R678|Q0R678\_PIG Maillard deglycase OS=Sus scrofa  
OX=9823 GN=PARK7 PE=1 SV=1;tr|A0A5G2QIK1|A0A5G2QIK1\_PIG Parkinsonism associated  
deglycase OS=Sus scrofa OX=9823 GN=PARK7 PE=1 SV=1  
3604800 0 28985000 0 12027000 8842300 0 6171600 9823800 0 7101100 47606000  
8 8 8 34,5 34,5 34,5 29,937 0 51,182 427430000 35 Q1AG08 Q1AG08  
1024tr|Q1AG08|Q1AG08\_PIG Calsarcin 1 OS=Sus scrofa OX=9823 GN=MYOZ2 PE=2 SV=1  
6991300000 8858000000 2948500000 11813000000 6854800000 3795900000 12416000000  
9554700000 5456700000 8115800000 6750000000 2324000000 28 28  
19 56,2 56,2 36,9 47,13 0 323,31 472320000000 2080  
Q1KYT0;A0A5G2R7R6;F1RFY2;A0A286ZSQ1;A0A287AZR0;A0A5G2RCS9;A0A5G2R1M2  
Q1KYT0;A0A5G2R7R6;F1RFY2;A0A286ZSQ1;A0A287AZR0;A0A5G2RCS9;A0A5G2R1M2 1025  
sp|Q1KYT0|ENOB\_PIG Beta-enolase OS=Sus scrofa OX=9823 GN=ENO3 PE=2  
SV=1;tr|A0A5G2R7R6|A0A5G2R7R6\_PIG 2-phospho-D-glycerate hydro-lyase OS=Sus scrofa

OX=9823 GN=ENO3 PE=1 SV=1;tr|F1RFY2|F1RFY2\_PIG 2-phospho-D-glycerate hydro-lyase  
OS=Sus scrofa OX=9823 GN=E

51342000 0 80777000 85103000 107210000 108720000 70304000 0 61267000 116280000  
97139000 173090000 2 2 2 28,6 28,6 28,6 7,3466 0 9,1753  
1672000000 31 Q1W0Y2 Q1W0Y2 1026sp|Q1W0Y2|COX7C\_PIG Cytochrome c oxidase  
subunit 7C, mitochondrial OS=Sus scrofa OX=9823 GN=COX7C PE=1 SV=1

5037600 0 4950600 0 0 0 5841200 0 0 6378300 0 0 3 3  
3 28,3 28,3 28,3 12,511 0 3,6526 60012000 3 Q29036;A0A5G2QH37;A0A5S6FUV7  
Q29036;A0A5G2QH37 1027sp|Q29036|DAD1\_PIG Dolichyl-diphosphooligosaccharide--  
protein glycosyltransferase subunit DAD1 OS=Sus scrofa OX=9823 GN=DAD1 PE=3  
SV=3;tr|A0A5G2QH37|A0A5G2QH37\_PIG Dolichyl-diphosphooligosaccharide--protein  
glycosyltransferase subunit DAD1 OS=Sus scrofa OX

0 0 6237500 9285700 0 9030700 0 0 0 4684900 0 4068400 3  
3 3 18,5 18,5 18,5 16,445 0 6,2933 77688000 23 Q29201;K7GKC0;A0A5S6GW77  
Q29201;K7GKC0;A0A5S6GW77 1028sp|Q29201|RS16\_PIG 40S ribosomal protein S16 OS=Sus  
scrofa OX=9823 GN=RPS16 PE=1 SV=4;tr|K7GKC0|K7GKC0\_PIG 40S ribosomal protein S16 OS=Sus  
scrofa OX=9823 GN=RPS16 PE=3 SV=2;tr|A0A5S6GW77|A0A5S6GW77\_PIG 40S ribosomal protein  
S16 OS=Sus scrofa OX=9823 GN=RP

0 0 14603000 30928000 0 31232000 30744000 0 0 27564000 30224000 0  
2 2 1 11,8 11,8 7,9 20,212 0 6,4568 314810000 34 Q29205 Q29205 1029  
sp|Q29205|RL11\_PIG 60S ribosomal protein L11 OS=Sus scrofa OX=9823 GN=RPL11 PE=1 SV=3  
46869000 30304000 28336000 76837000 25301000 35841000 78725000 23303000 24198000 67355000  
26175000 34071000 10 10 10 25,1 25,1 25,1 53,941 0 39,766  
2377000000 99 Q29228;F1S232 Q29228;F1S232 1030sp|Q29228|AL9A1\_PIG 4-  
trimethylaminobutyraldehyde dehydrogenase OS=Sus scrofa OX=9823 GN=ALDH9A1 PE=2  
SV=2;tr|F1S232|F1S232\_PIG 4-trimethylaminobutyraldehyde dehydrogenase OS=Sus scrofa  
OX=9823 GN=ALDH9A1 PE=1 SV=3

19073000 0 0 0 0 0 0 0 0 23498000 0 0 2 2 2 19,4  
19,4 19,4 11,13 0 3,6754 135900000 5 Q29290 Q29290 1031  
sp|Q29290|CYTB\_PIG Cystatin-B OS=Sus scrofa OX=9823 GN=CSTB PE=1 SV=1

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 8,1 8,1 8,1  
14,549 0,0011312 2,5695 53248000 2 Q29361 Q29361 1032sp|Q29361|RL35\_PIG  
60S ribosomal protein L35 OS=Sus scrofa OX=9823 GN=RPL35 PE=1 SV=3

8523500 9900800 21510000 8266900 9563900 21949000 10619000 0 15368000 13558000 12343000  
35123000 6 6 6 9,4 9,4 9,4 56,337 0 11,92 388380000 21  
Q29551;A0A5G2Q8L3;A0A5G2QI86;A0A5G2RD73;A0A5G2RCZ1;A0A5S6IB20;M9MMN4  
Q29551;A0A5G2Q8L3;A0A5G2QI86;A0A5G2RD73;A0A5G2RCZ1;A0A5S6IB20 1033  
sp|Q29551|SCOT1\_PIG Succinyl-CoA:3-ketoacid coenzyme A transferase 1, mitochondrial  
OS=Sus scrofa OX=9823 GN=OXCT1 PE=1 SV=2;tr|A0A5G2Q8L3|A0A5G2Q8L3\_PIG Succinyl-  
CoA:3-ketoacid-coenzyme A transferase OS=Sus scrofa OX=9823 GN=OXCT1 PE=1  
SV=1;tr|A0A5G2QI86|

0 58338000 0 128500000 0 0 101910000 0 89994000 166480000 85996000 0  
2 2 2 39,1 39,1 39,1 7,4004 0 5,1559 1291300000 19 Q2EN79



SV=1;tr|A0A2C9F381|A0A2C9F381\_PIG Myozenin-1 OS=Sus scrofa OX=9823 GN=MYOZ1 PE=3 SV=2

28271000 0 7320500 26569000 8271500 11360000 27030000 0 0 21146000 0 11361000  
3 3 3 16,3 16,3 16,3 23,927 0 6,7128 245080000 14

Q52NJ6;A0A287BPB8 Q52NJ6;A0A287BPB8 1043sp|Q52NJ6|RAB14\_PIG Ras-related protein Rab-14 OS=Sus scrofa OX=9823 GN=RAB14 PE=2 SV=3;tr|A0A287BPB8|A0A287BPB8\_PIG Ras-related protein Rab-14 OS=Sus scrofa OX=9823 GN=RAB14 PE=4 SV=1

100240000 73695000 120880000 41028000 111910000 95543000 62685000 83708000 84328000  
71799000 90415000 126750000 7 7 5 44 44 33,1 18,736 0

128,53 3258400000 70 Q5G6V9 Q5G6V9 1044sp|Q5G6V9|COF2\_PIG Cofilin-2 OS=Sus scrofa OX=9823 GN=CFL2 PE=2 SV=4

19073000 9585400 44799000 0 24070000 25437000 0 5440700 13275000 0 16926000 57419000  
13 13 13 45,5 45,5 45,5 40,659 0 47,723 1508200000 69

Q5PXT2;A0A5G2Q8A7;A0A5G2QFD7;A0A5G2QVX1;A0A5G2R4Z6;A0A5G2QVD0;A0A5G2Q TN0

Q5PXT2;A0A5G2Q8A7;A0A5G2QFD7;A0A5G2QVX1;A0A5G2R4Z6;A0A5G2QVD0;A0A5G2Q TN0 1045sp|Q5PXT2|LMCD1\_PIG LIM and cysteine-rich domains protein 1 OS=Sus scrofa OX=9823 GN=LMCD1 PE=2 SV=1;tr|A0A5G2Q8A7|A0A5G2Q8A7\_PIG LIM and cysteine-rich domains protein 1 OS=Sus scrofa OX=9823 GN=LMCD1 PE=1 SV=1;tr|A0A5G2QFD7|A0A5G2QFD7\_PIG LIM and cysteine

1657300000 3217600000 1151300000 1505800000 5355600000 2016200000 1524300000  
4446700000 2973100000 1631500000 4365600000 1363700000 14 14  
14 62,3 62,3 62,3 29,411 0 323,31 141540000000 1203

Q5S1S4;A0A5S6G0V8;A0A5S6I8A2 Q5S1S4;A0A5S6G0V8;A0A5S6I8A2 1046  
sp|Q5S1S4|CAH3\_PIG Carbonic anhydrase 3 OS=Sus scrofa OX=9823 GN=CA3 PE=2 SV=3;tr|A0A5S6G0V8|A0A5S6G0V8\_PIG Carbonic anhydrase OS=Sus scrofa OX=9823 GN=CA3 PE=3 SV=1;tr|A0A5S6I8A2|A0A5S6I8A2\_PIG Carbonic anhydrase OS=Sus scrofa OX=9823 GN=CA3 PE=3 SV=1

75786000 48247000 109370000 149160000 126270000 127620000 107860000 63162000  
98989000 172390000 112220000 189550000 6 6 6 37,2 37,2 37,2  
13,783 0 43,076 5412900000 138 Q5S3G4 Q5S3G4 1047sp|Q5S3G4|COX5B\_PIG

Cytochrome c oxidase subunit 5B, mitochondrial OS=Sus scrofa OX=9823 GN=COX5B PE=2 SV=1  
0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 14,8 14,8 14,8

15,524 0 3,7541 54514000 6 Q6QAP7;A0A286ZLG7 Q6QAP7;A0A286ZLG7 1048  
sp|Q6QAP7|RS17\_PIG 40S ribosomal protein S17 OS=Sus scrofa OX=9823 GN=RPS17 PE=1 SV=3;tr|A0A286ZLG7|A0A286ZLG7\_PIG 40S ribosomal protein S17 OS=Sus scrofa OX=9823 PE=3 SV=1

10385000 7319200 7454500 15334000 8087300 8373800 15284000 8675800 6312400 11289000  
7686600 7513300 3 3 3 46,4 46,4 46,4 7,8409 0 11,449  
235210000 35 Q6QAT1 Q6QAT1 1049sp|Q6QAT1|RS28\_PIG 40S ribosomal protein S28 OS=Sus scrofa OX=9823 GN=RPS28 PE=1 SV=2

189180000 91181000 94117000 62148000 72367000 107600000 86788000 50480000 74430000  
128270000 70755000 100140000 12 12 12 47,9 47,9 47,9 39,545 0

121,12 554190000 201 Q6QGC0;D3GGC9;A0A480QG05;I3L9B6  
Q6QGC0;D3GGC9;A0A480QG051050sp|Q6QGC0|PDLI3\_PIG PDZ and LIM domain protein 3  
OS=Sus scrofa OX=9823 GN=PDLIM3 PE=2 SV=1;tr|D3GGC9|D3GGC9\_PIG Actinin-associated LIM  
protein 3 OS=Sus scrofa OX=9823 GN=PDLIM3 PE=1 SV=1;tr|A0A480QG05|A0A480QG05\_PIG PDZ  
and LIM domain protein 3 OS=Sus scro

11425000 0 0 14674000 0 0 17923000 0 0 16540000 0 0 3 3  
2 33 33 23,2 12,323 0 5,2962 153940000 5 Q712U6 Q712U6 1052  
sp|Q712U6|ARP19\_PIG cAMP-regulated phosphoprotein 19 OS=Sus scrofa OX=9823  
GN=ARPP19 PE=2 SV=3

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 4 4 4  
28,399 0,0049751 1,615 22119000 4 Q85ZW4 Q85ZW4 1053  
tr|Q85ZW4|Q85ZW4\_PIG MHC class II antigen OS=Sus scrofa OX=9823 GN=SLA-DRA1 PE=1  
SV=1

18851000 7688600 11762000 22254000 12451000 18353000 24282000 0 14567000 24296000 13702000  
17679000 5 5 5 17,5 17,5 17,5 20,571 0 9,067 483810000 26  
Q864V5;A0A5G2QLL4 Q864V5;A0A5G2QLL4 1054sp|Q864V5|FUND2\_PIG FUN14 domain-  
containing protein 2 OS=Sus scrofa OX=9823 GN=FUND2 PE=2  
SV=1;tr|A0A5G2QLL4|A0A5G2QLL4\_PIG FUN14 domain-containing protein 2 OS=Sus scrofa  
OX=9823 GN=FUND2 PE=1 SV=1

0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 3,7 3,7 3,7  
27,517 0,0031949 2,0833 14791000 6 Q8HXL4 Q8HXL4 1055  
tr|Q8HXL4|Q8HXL4\_PIG Cytoskeleton-associated protein 1 OS=Sus scrofa OX=9823 GN=TBCB  
PE=1 SV=1

455670000 56364000 682700000 467630000 281190000 748650000 231200000  
187470000 278480000 316990000 313120000 596850000 8 8  
8 42,8 42,8 42,8 18,891 0 43,084 21867000000 244 Q8MHY0;F1RKG0 Q8MHY0  
1056tr|Q8MHY0|Q8MHY0\_PIG MYL2 OS=Sus scrofa OX=9823 GN=MYL2 PE=1 SV=1

28527000 0 0 78813000 0 156070000 42511000 107340000 167040000 0  
136810000 185510000 2 2 2 28,8 28,8 28,8 9,0144 0 38,549  
194390000 36 Q8SPJ9 Q8SPJ9 1057sp|Q8SPJ9|CX7A1\_PIG Cytochrome c oxidase  
subunit 7A1, mitochondrial OS=Sus scrofa OX=9823 GN=COX7A1 PE=3 SV=1

0 7924200 0 7381700 0 0 7951500 7784100 0 9758500 8601700 0  
2 2 2 24,1 24,1 24,1 9,3447 0,0011494 2,732 171370000 6  
Q95KL4;A0A287AMJ4 Q95KL4;A0A287AMJ4 1058sp|Q95KL4|SELW\_PIG Selenoprotein W  
OS=Sus scrofa OX=9823 GN=SELENOW PE=3 SV=4;tr|A0A287AMJ4|A0A287AMJ4\_PIG  
Selenoprotein W OS=Sus scrofa OX=9823 GN=SELENOW PE=4 SV=2

104760000 47889000 117710000 145190000 108910000 106190000 128580000  
56715000 78324000 209850000 102350000 193930000 2 2 2 32,4  
32,4 32,4 8,2314 0 23,015 2132800000 85 Q9MYT8;A0A5S6GNK8  
Q9MYT8;A0A5S6GNK8 1059sp|Q9MYT8|ATP5I\_PIG ATP synthase subunit e,  
mitochondrial OS=Sus scrofa OX=9823 GN=ATP5ME PE=1  
SV=4;tr|A0A5S6GNK8|A0A5S6GNK8\_PIG ATP synthase membrane subunit e OS=Sus scrofa  
OX=9823 GN=ATP5ME PE=3 SV=1

87980000 105330000 129360000 184670000 145940000 130580000 177870000  
 115590000 146800000 234470000 166640000 178450000 9 9  
 9 40,6 40,6 40,6 30,726 0 59,28 5339200000 98  
 Q9MZ16;A0A287AVV2;A0A2C9F3B2;A0A5S6HVC8  
 Q9MZ16;A0A287AVV2;A0A2C9F3B2;A0A5S6HVC8 1060sp|Q9MZ16|VDAC1\_PIG  
 Voltage-dependent anion-selective channel protein 1 OS=Sus scrofa OX=9823 GN=VDAC1 PE=2  
 SV=3;tr|A0A287AVV2|A0A287AVV2\_PIG Voltage-dependent anion-selective channel protein 1  
 OS=Sus scrofa OX=9823 GN=VDAC1 PE=1 SV=2;tr|A0A2C9F3B2|A0A2C9F  
 0 0 12993000 0 10761000 12129000 0 7337600 9920200 0 9885400 21666000  
 3 3 3 5 5 5 68,649 0,0011481 2,7164 220910000 14 Q9TDR1  
 Q9TDR1 1061sp|Q9TDR1|NU5M\_PIG NADH-ubiquinone oxidoreductase chain 5 OS=Sus  
 scrofa OX=9823 GN=MT-ND5 PE=1 SV=1  
 53694000 71673000 66924000 114690000 96956000 72846000 118830000 63131000 55116000  
 111050000 86165000 89390000 10 10 10 38,4 38,4 38,4 25,037 0  
 23,989 423610000 110 Q9TSX9 Q9TSX9 1062sp|Q9TSX9|PRDX6\_PIG Peroxiredoxin-6  
 OS=Sus scrofa OX=9823 GN=PRDX6 PE=2 SV=3  
 252490000 455450000 168730000 44672000 171470000 77955000 45279000 124380000  
 132670000 54135000 154700000 133930000 83 83 0 43,8 43,8 0  
 223,23 0 323,31 1661000000 605 Q9TV62 Q9TV62 1063sp|Q9TV62|MYH4\_PIG  
 Myosin-4 OS=Sus scrofa OX=9823 GN=MYH4 PE=2 SV=1  
 74069000 43415000 114840000 24016000 18998000 67793000 28707000 11489000 28185000 33294000  
 20828000 27552000 10 10 10 27,5 27,5 27,5 39,899 0 41,204  
 181770000 114  
 Q9XSD9;A0A5G2RB02;F1SQ10;A0A5G2QKZ7;A0A5G2QHJ3;A0A5G2Q800;A0A5G2QIH8  
 Q9XSD9;A0A5G2RB02;F1SQ10;A0A5G2QKZ7 1064sp|Q9XSD9|PGS2\_PIG Decorin OS=Sus  
 scrofa OX=9823 GN=DCN PE=2 SV=1;tr|A0A5G2RB02|A0A5G2RB02\_PIG Decorin OS=Sus scrofa  
 OX=9823 GN=DCN PE=3 SV=1;tr|F1SQ10|F1SQ10\_PIG Decorin OS=Sus scrofa OX=9823 GN=DCN  
 PE=3 SV=2;tr|A0A5G2QKZ7|A0A5G2QKZ7\_PIG Decorin OS=Sus sc