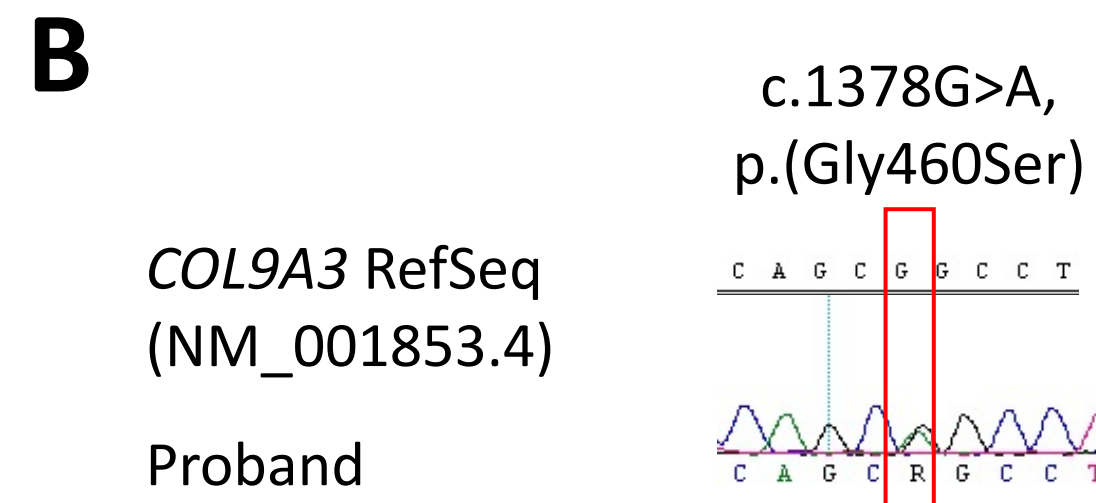
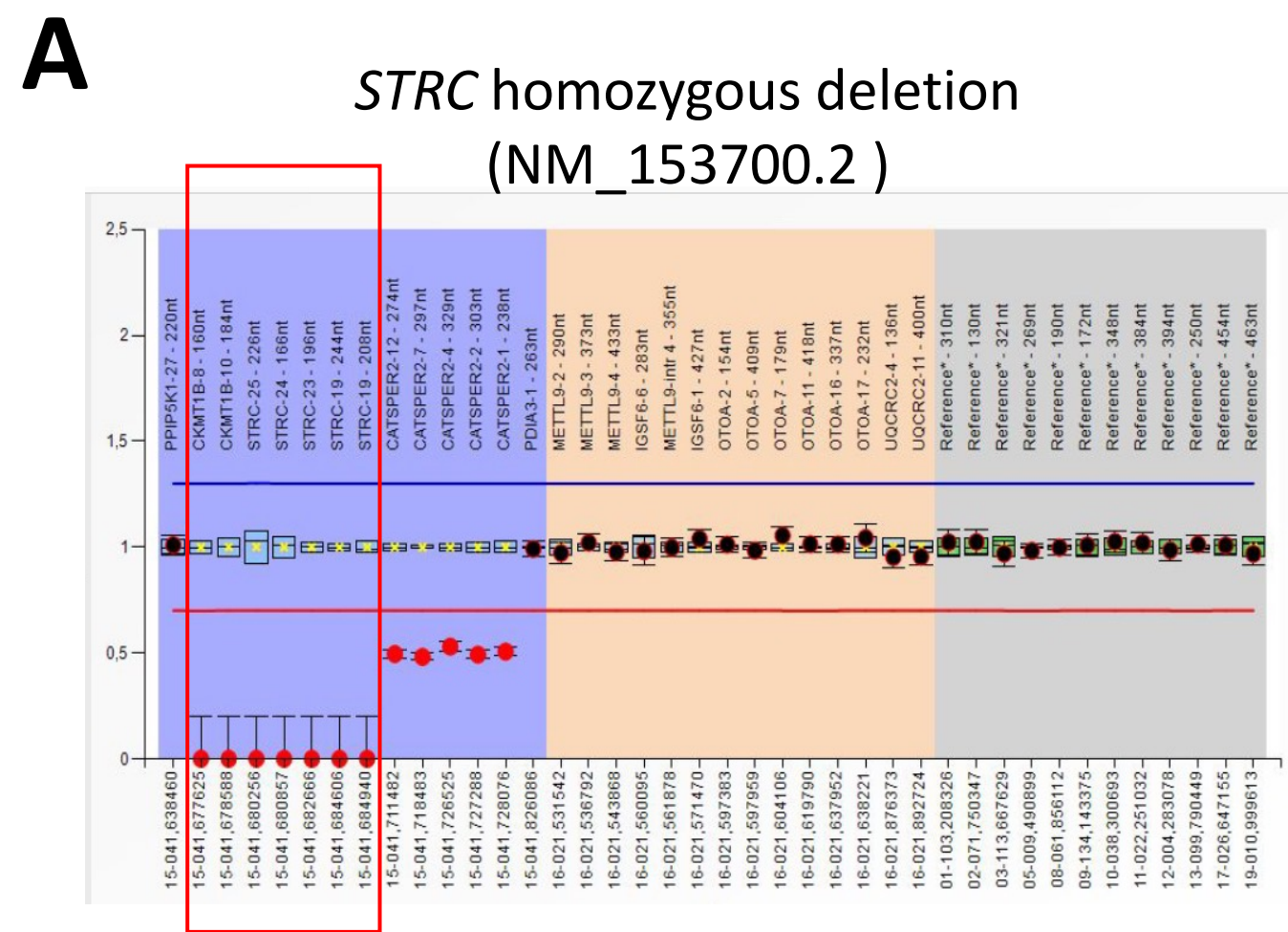


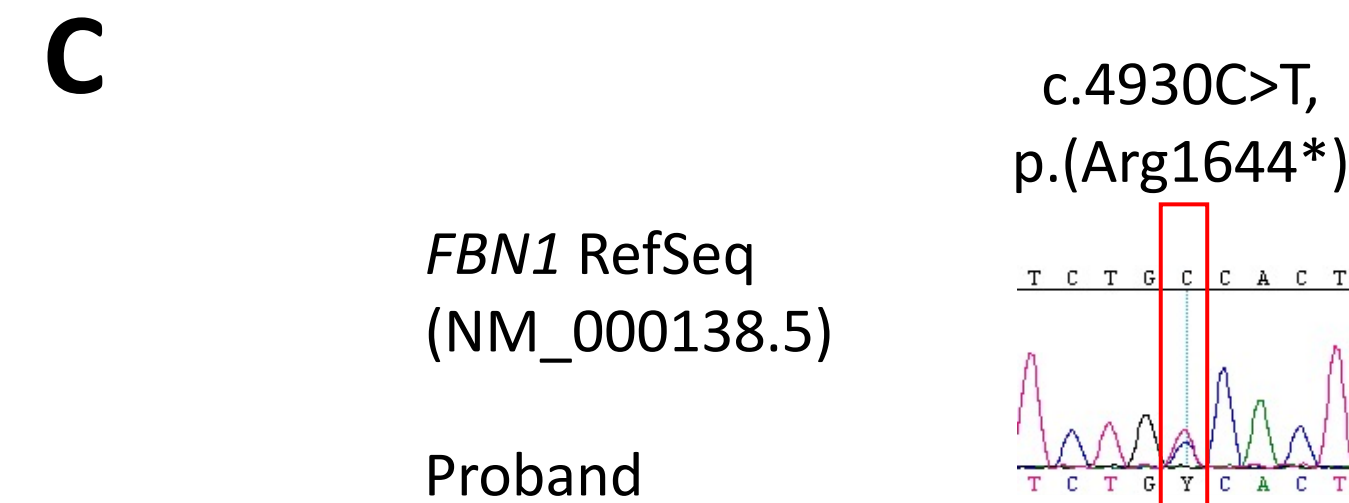
## Fam 1



p.Gly460

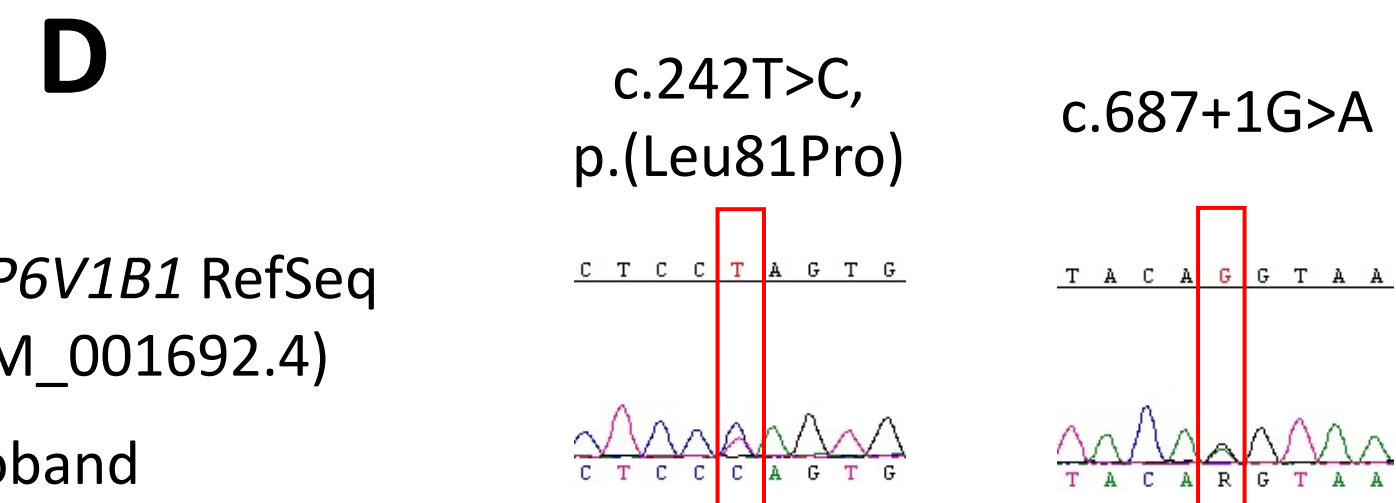
Species	Sequence	Position
Sus scrofa	GPGQLRGGMDRGPFGATGPKGDGGIAGSDGLPGDKGELGSPGVGPKGEAGSRGELGPK	433
Macaca mulatta	GPGQFRGVDGRGPGGATGPKGDGGIAGSDGLPGDKGELGSPGVGPKGESGSRGELGPK	477
Pan troglodytes	GPGQLRGGMDRGPFGAAGPKGDGGIAGSDGLPGDKGELGSPGLVGPKGESGSRGELGPK	470
Homo sapiens	GPGQLRGGMDRGPFGAAGPKGDGGIAGSDGLPGDKGELGSPGLVGPKGESGSRGELGPK	477
Pongo abelii	GPGQLRGGMDRGPFGAAGPKGDGGIAGSDGLPGDKGELGSPGLVGPKGESGSRGELGPK	479

## Fam 2



p.Arg1644

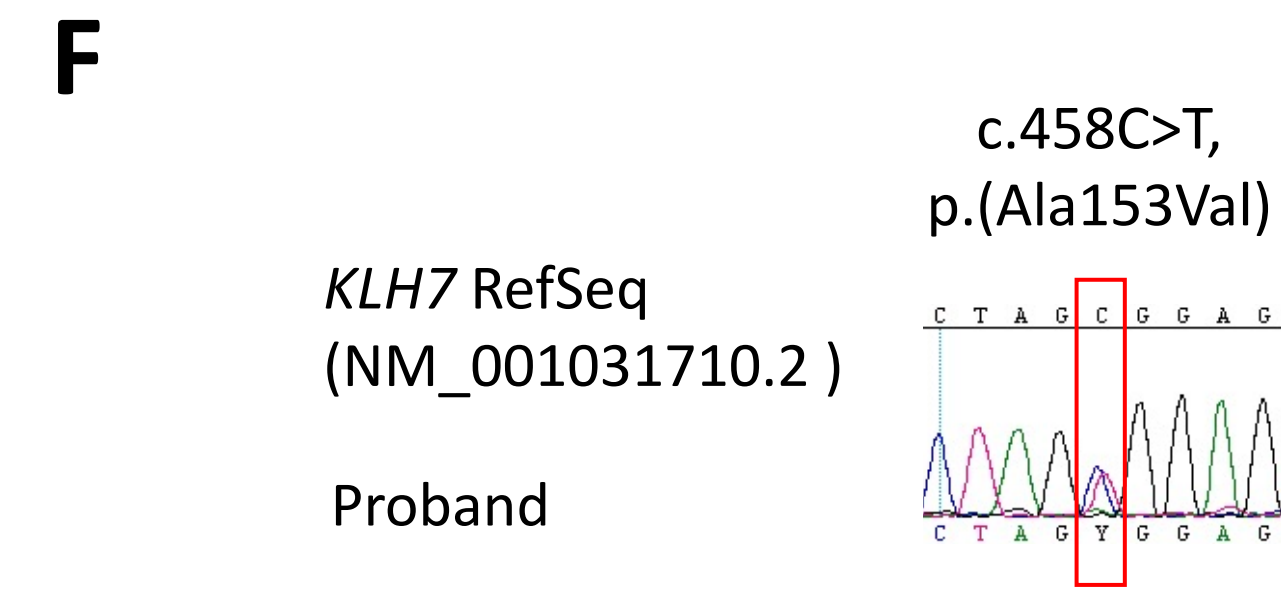
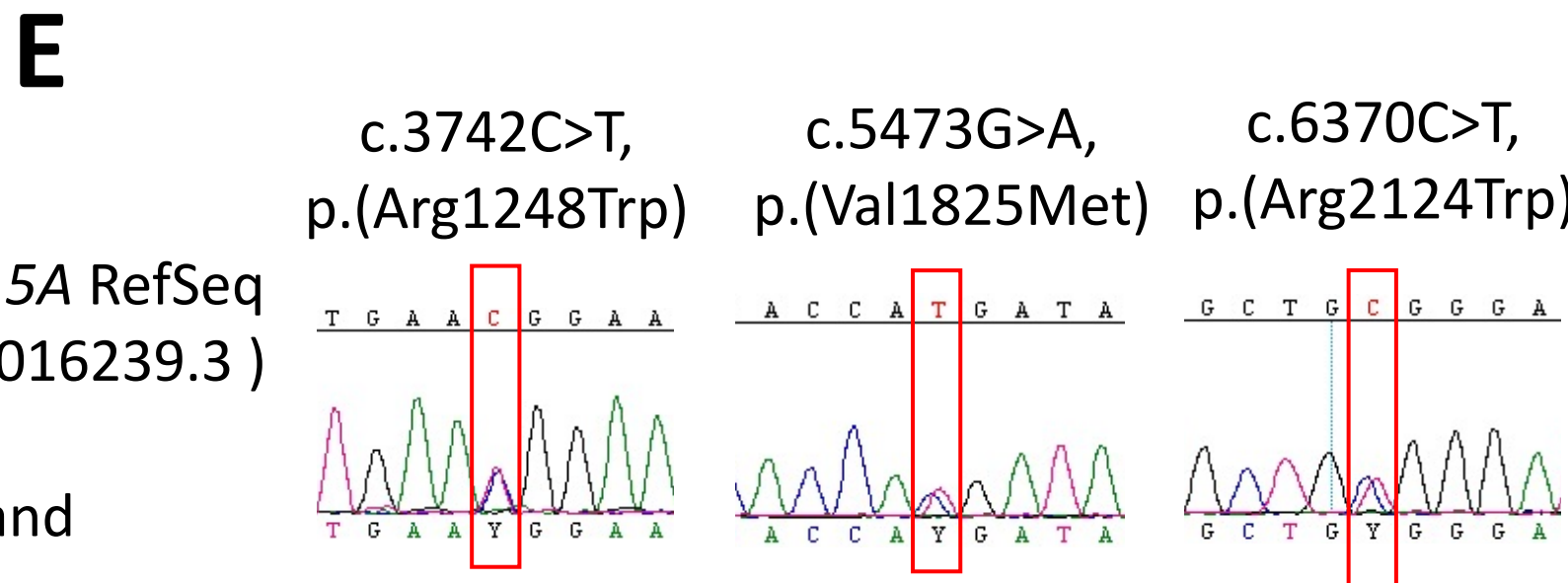
Species	Sequence	Position
Sus scrofa	KCINTFGSFQCRPTGYLLNEDTRVCDVNECEPFGICGPGTCYNTVGNVTCICPPDYMQ	1680
Macaca mulatta	KCINTFGSFQCRPTGYLLNEDTRVCDVNECEPFGICGPGTCYNTVGNVTCICPPDYMQ	1680
Pongo abelii	KCINTFGSFQCRPTGYLLNEDTRVCDVNECEPFGICGPGTCYNTVGNVTCICPPDYMQ	1680
Homo sapiens	KCINTFGSFQCRPTGYLLNEDTRVCDVNECEPFGICGPGTCYNTVGNVTCICPPDYMQ	1680
Pan troglodytes	KCINTFGSFQCRPTGYLLNEDTRVCDVNECEPFGICGPGTCYNTVGNVTCICPPDYMQ	1680



p.Leu81

Species	Sequence	Position
Equus Caballus	QYAEIVNFTLFPNGTQRSGQVLEVAGTKAIVQVFEGTSGIDAQKTCFTGDLRTPVSED	120
Pongo abelii	QYAEIVHFTLDPGTQRSGQVLEVAGTKAIVQVFEGTSGIDARKTTCFTGDLRTPVSED	116
Homo sapiens	QYAEIVHFTLDPGTQRSGQVLEVAGTKAIVQVFEGTSGIDARKTTCFTGDLRTPVSED	120
Pan troglodytes	QYAEIVHFTLDPGTQRSGQVLEVAGTKAIVQVFEGTSGIDARKTTCFTGDLRTPVSED	120
Macaca mulatta	QYAEIVHFTLDPGTQRSGQVLEVAGTKAIVQVFEGTSGIDARKTTCFTGDLRTPVSED	120

## Fam 3



p.Arg1248

Species	Sequence	Position
Equus caballus	TRFERNLIYTYIGSILVSVNPMFGIYGPBQVQYNGRALGENPPLFAIANLAFAKMI	1288
Macaca mulatta	IRFERNLIYTYIGSILVSVNPMFGIYGPBQVQYNGRALGENPPLFAIANLAFAKMI	1301
Pongo abelii	MRFERNLIYTYIGSILVSVNPMFGIYGPBQVQYNGRALGENPPLFAIANLAFAKMI	1296
Homo sapiens	IRFERNLIYTYIGSILVSVNPMFGIYGPBQVQYNGRALGENPPLFAIANLAFAKMI	1303
Pan paniscus	IRFERNLIYTYIGSILVSVNPMFGIYGPBQVQYNGRALGENPPLFAIANLAFAKMI	1303

p.Val1825

Species	Sequence	Position
Equus caballus	KMERCNPLFVRCLKPNHKKPEGLFEPDVVMAQLRYSGLVETVIRIRKEGFPVRLPFQGPID	1828
Macaca mulatta	KMERCNPLFMRCLKPNHKKPEGLFEPDVVMAQLRYSGLVETVIRIRKEGFPVRLPFQGPID	1841
Pongo abelii	KMERCNPLFMRCLKPNHKKPEGLFEPDVVMAQLRYSGLVETVIRIRKEGFPVRLPFQGPID	1836
Homo sapiens	KMERCNPLFMRCLKPNHKKPEGLFEPDVVMAQLRYSGLVETVIRIRKEGFPVRLPFQGPID	1843
Pan paniscus	KMERCNPLFMRCLKPNHKKPEGLFEPDVVMAQLRYSGLVETVIRIRKEGFPVRLPFQGPID	1843

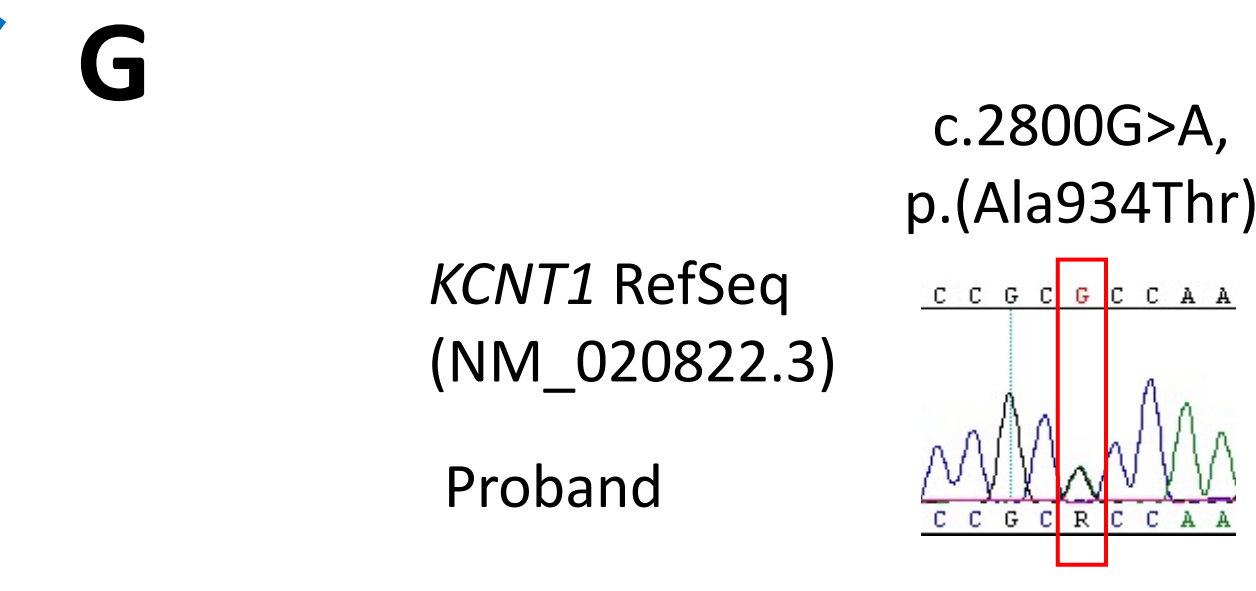
p.Arg2124

Species	Sequence	Position
Equus caballus	EAVGVFKILIRFMGDPHLHGAQENIFGNVIVQKGLAVPEIRDEILAQLANQVWHNPSAHN	2128
Macaca mulatta	EAVSVFKILIRFMGDPHLHGAQENIFGNVIVQKGLAVPEIRDEILAQLANQVWHNHNHNAH	2123
Pongo abelii	EAVSIFKILIRFMGDPHLHGAQENIFGNVIVQKGLAVPEIRDEILAQLANQVWHNHNHNAH	2136
Homo sapiens	EAVSIFKILIRFMGDPHLHGAQENIFGNVIVQKGLAVPEIRDEILAQLANQVWHNHNHNAH	2143
Pan paniscus	EAVSIFKILIRFMGDPHLHGAQENIFGNVIVQKGLAVPEIRDEILAQLANQVWHNHNHNAH	2143

p.Ala153

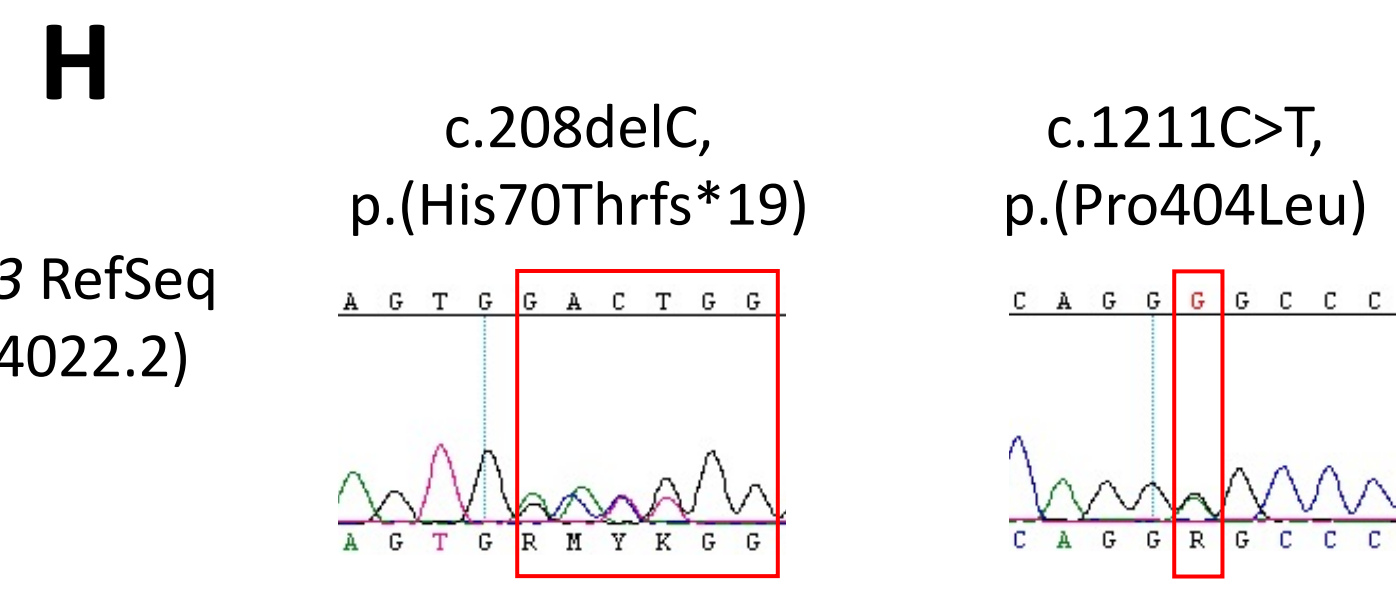
Species	Sequence	Position
Gallus gallus	ANQYQIEPVKMKCVDFLKEQVDASNCLGISVIAECILDCEPLKATADDFIHQHFTEVYKTD	180
Equus caballus	ANQYQIEPVKMKCVDFLKEQVDASNCLGISVIAECILDCEPLKATADDFIHQHFTEVYKTD	180
Bos taurus	ANQYQIEPVKMKCVDFLKEQVDASNCLGISVIAECILDCEPLKATADDFIHQHFTEVYKTD	180
Homo sapiens	ANQYQIEPVKMKCVDFLKEQVDASNCLGISVIAECILDCEPLKATADDFIHQHFTEVYKTD	180
Macaca mulatta	ANQYQIEPVKMKCVDFLKEQVDASNCLGISVIAECILDCEPLKATADDFIHQHFTEVYKTD	180

## Fam 4



p.Ala934

Species	Sequence	Position
Sus scrofa	MADAKTIVNVQTMFLFPLSITITELTHPSNMRMFQFPAKDSYSLALSLEKREERENGSN	960
Macaca mulatta	MADAKTIVNVQTMFLFPLSITITELTHPSNMRMFQFPAKDSYSLALSLEKREERENGSN	955
Pongo abelii	MADAKTIVNVQTMFLFPLSITITELTHPSNMRMFQFPAKDSYSLALSLEKREERENGSN	955
Homo sapiens	MADAKTIVNVQTMFLFPLSITITELTHPSNMRMFQFPAKDSYSLALSLEKREERENGSN	955
Pan troglodytes	MADAKTIVNVQTMFLFPLSITITELTHPSNMRMFQFPAKDSYSLALSLEKREERENGSN	955



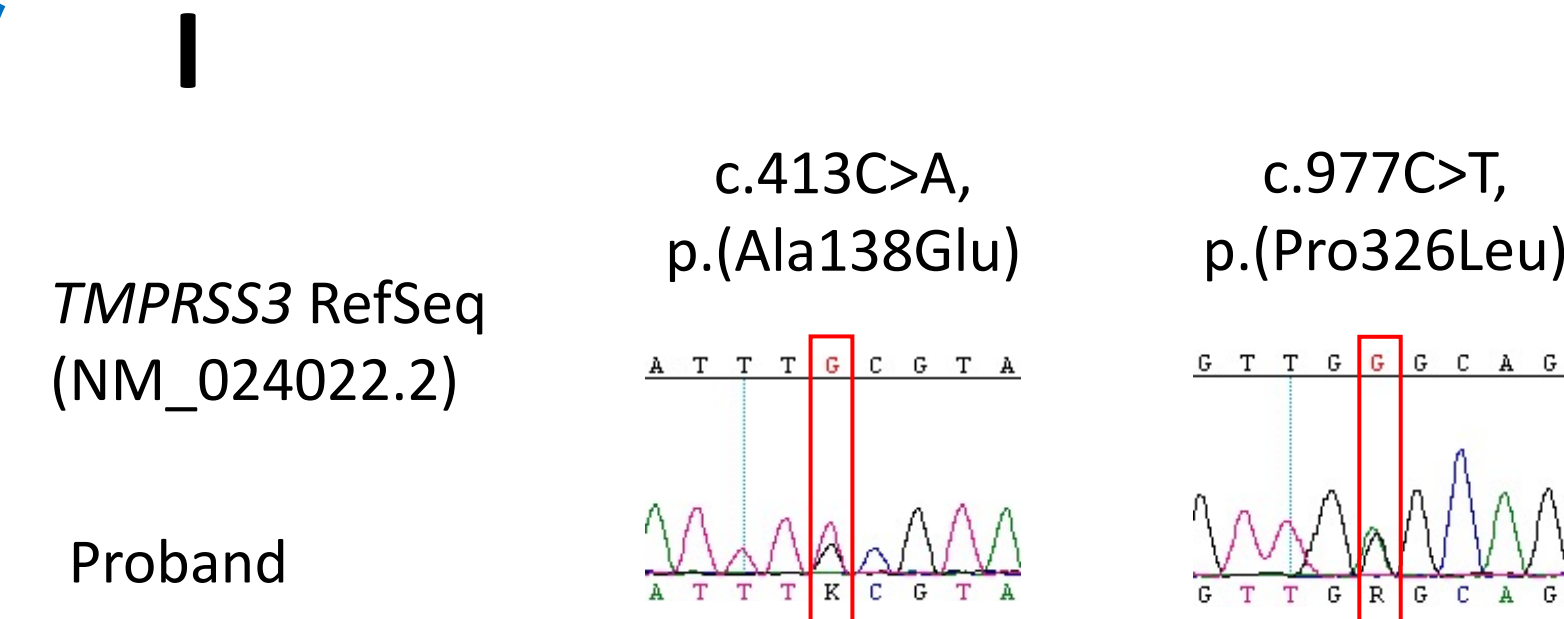
p.His70

Species	Sequence	Position
Equus Caballus	AAQILSLPLKFFPIIVIGIIIALILALAIGLHFDGSGKYRCRSSFKCIELTARCDGVS	96
Macaca mulatta	AAQILSLPLKFFPIIVIGIIIALILALAIGLHFDGSGKYRCRSSFKCIELTARCDGVS	180
Pongo abelii	AAQILSLPLKFFPIIVIGIIIALILALAIGLHFDGSGKYRCRSSFKCIELTARCDGVS	96
Homo sapiens	AAQILSLPLKFFPIIVIGIIIALILALAIGLHFDGSGKYRCRSSFKCIELTARCDGVS	96
Pan troglodytes	AAQILSLPLKFFPIIVIGIIIALILALAIGLHFDGSGKYRCRSSFKCIELTARCDGVS	96

p.Pro404

Species	Sequence	Position
Equus Caballus	CQGDGSGPLVQCERRLWKLVGATSFIGICAEVKNKPGVYTRVTSFLDWIHEQMERRDLKT	453
Macaca mulatta	CQGDGSGPLVQCERRLWKLVGATSFIGICAEVKNKPGVYTRVTSFLDWIHEQMERRDLKT	537
Pongo abelii	CQGDGSGPLVQCERRLWKLVGATSFIGICAEVKNKPGVYTRVTSFLDWIHEQMERRDLKT	454
Homo sapiens	CQGDGSGPLVQCERRLWKLVGATSFIGICAEVKNKPGVYTRVTSFLDWIHEQMERRDLKT	454
Pan troglodytes	CQGDGSGPLVQCERRLWKLVGATSFIGICAEVKNKPGVYTRVTSFLDWIHEQMERRDLKT	454

## Fam 6

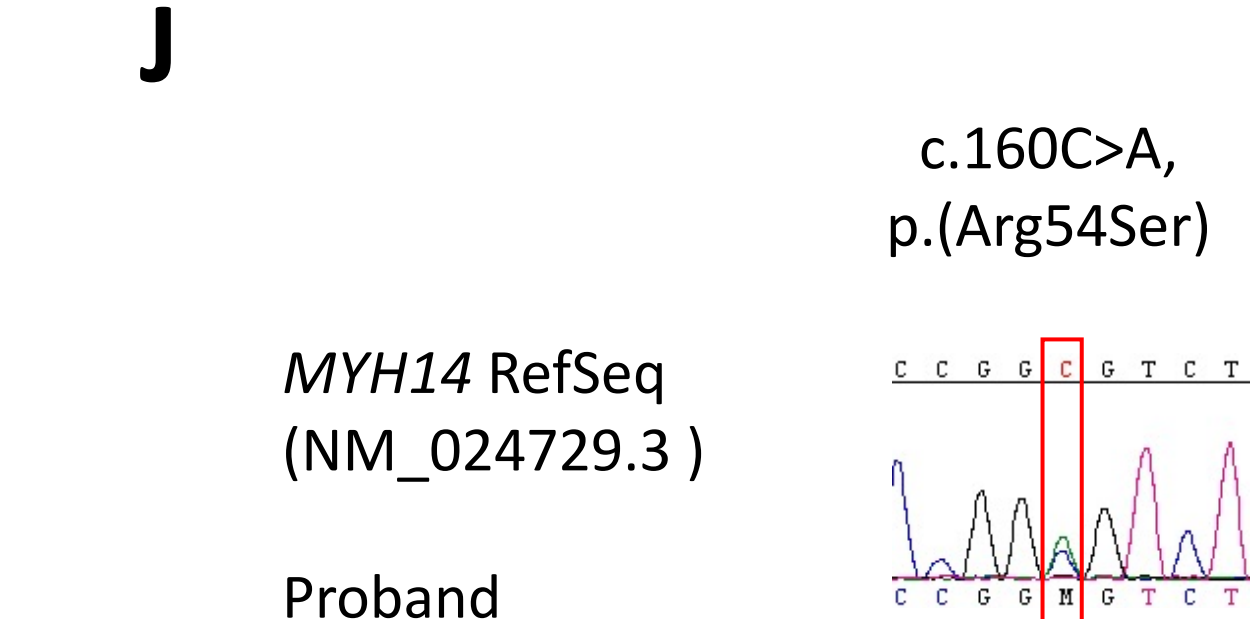


p.Ala138

Species	Sequence	Position
Equus Caballus	TAAAWRTVCSDDWKAHHAIVACAQLGFPSYVSSDNLRVSSLEGGFREFEVSINHLPLPDK	180
Macaca mulatta	TAAASWRTVCSDDWKGHHAIVACAQLGFPSYVSSDNLRVSSLEGGFREFEVSINHLPLPDK	180
Pongo abelii	TAAASWRTVCSDDWKGHHAIVACAQLGFPSYVSSDNLRVSSLEGGFREFEVSINHLPLPDK	180
Homo sapiens	TAAASWRTVCSDDWKGHHAIVACAQLGFPSYVSSDNLRVSSLEGGFREFEVSINHLPLPDK	180
Pan troglodytes	TAAASWRTVCSDDWKGHHAIVACAQLGFPSYVSSDNLRVSSLEGGFREFEVSINHLPLPDK	180

p.Pro326

Species	Sequence	Position
Equus Caballus	LGNDIALMKLAGPLAFNEMIQPVCLPNSEESFPDGRKMCWTSWGATEDG-GDASPVLNHA	359
Macaca mulatta	LGNDIALMKLAGPLAFNEMIQPVCLPNSEESFPDGRKMCWTSWGATEDG-GDASPVLNHA	359
Pongo abelii	LGNDIALMKLAGPLAFNEMIQPVCLPNSEESFPDGRKMCWTSWGATEDG-GDASPVLNHA	360
Homo sapiens	LGNDIALMKLAGPLAFNEMIQPVCLPNSEESFPDGRKMCWTSWGATEDG-GDASPVLNHA	360
Pan troglodytes	LGNDIALMKLAGPLAFNEMIQPVCLPNSEESFPDGRKMCWTSWGATEDG-GDASPVLNHA	360



p.Arg54

Species	Sequence	Position
Equus Caballus	MAAVTSVAGRKAAPPQPGVPEAAQPYLFAPRASSVG-----GPGAAPQVETAHRLVWVP	56
Felis catus	MAAVTSLVGRKAAPPQPGVPEAAQPYLFAPRASSVG-----GPGAAPQVETAHRLVWVP	60
Pongo abelii	MAAVTMSVGRKAAPPQPGVPEAAQPYLFAPRASSVG-----GPGAAPQVETAHRLVWVP	59
Homo sapiens	MAAVTMSVGRKAAPPQPGVPEAAQPYLFAPRASSVG-----GPGAAPQVETAHRLVWVP	59
Pan troglodytes	MAAVTMSVGRKAAPPQPGVPEAAQPYLFAPRASSVG-----GPGAAPQVETAHRLVWVP	59