

**Table S1.** High-quality loci could be used for distinguish different groups

Scaffolds	Position	Available	Available
NKXS01000147.1	91592	Group1 VS Group2	Group2 VS Group3
NKXS01000371.1	62962	Group1 VS Group2	Group2 VS Group3
NKXS01000371.1	63101	Group1 VS Group2	Group2 VS Group3
NKXS01000437.1	6003	Group1 VS Group2	Group2 VS Group3
NKXS01000454.1	122027	Group1 VS Group2	Group2 VS Group3
NKXS01000454.1	122172	Group1 VS Group2	Group2 VS Group3
NKXS01000733.1	90907	Group1 VS Group2	Group2 VS Group3
NKXS01000733.1	91081	Group1 VS Group2	Group2 VS Group3
NKXS01000844.1	149762	Group1 VS Group2	Group2 VS Group3
NKXS01002066.1	20451	Group1 VS Group2	Group2 VS Group3
NKXS01002626.1	38014	Group1 VS Group2	Group2 VS Group3
NKXS01002684.1	2957	Group1 VS Group2	Group2 VS Group3
NKXS01003056.1	67367	Group1 VS Group2	Group2 VS Group3
NKXS01003645.1	12056	Group1 VS Group2	Group2 VS Group3
NKXS01003646.1	74491	Group1 VS Group2	Group2 VS Group3
NKXS01003956.1	23745	Group1 VS Group2	Group2 VS Group3
NKXS01003956.1	23913	Group1 VS Group2	Group2 VS Group3
NKXS01003978.1	39150	Group1 VS Group2	Group2 VS Group3
NKXS01004120.1	22224	Group1 VS Group2	Group2 VS Group3
NKXS01004120.1	22355	Group1 VS Group2	Group2 VS Group3
NKXS01004543.1	43763	Group1 VS Group2	Group2 VS Group3
NKXS01004543.1	43817	Group1 VS Group2	Group2 VS Group3
NKXS01004543.1	43820	Group1 VS Group2	Group2 VS Group3
NKXS01004543.1	43823	Group1 VS Group2	Group2 VS Group3
NKXS01004543.1	43931	Group1 VS Group2	Group2 VS Group3
NKXS01004543.1	44007	Group1 VS Group2	Group2 VS Group3
NKXS01005396.1	90924	Group1 VS Group2	Group2 VS Group3
NKXS01005539.1	27345	Group1 VS Group2	Group2 VS Group3
NKXS01005789.1	10752	Group1 VS Group2	Group2 VS Group3
NKXS01006038.1	24411	Group1 VS Group2	Group2 VS Group3
NKXS01006038.1	24419	Group1 VS Group2	Group2 VS Group3
NKXS01006038.1	24426	Group1 VS Group2	Group2 VS Group3
NKXS01006113.1	2628	Group1 VS Group2	Group2 VS Group3
NKXS01006289.1	3217	Group1 VS Group2	Group2 VS Group3
NKXS01007455.1	15156	Group1 VS Group2	Group2 VS Group3
NKXS01000114.1	115563	Group2 VS Group3	Group1 VS Group3
NKXS01000147.1	91542	Group1 VS Group2	Group1 VS Group3
NKXS01000147.1	91605	Group1 VS Group2	Group1 VS Group3
NKXS01000147.1	91607	Group1 VS Group2	Group1 VS Group3
NKXS01000147.1	91608	Group1 VS Group2	Group1 VS Group3
NKXS01000230.1	85837	Group2 VS Group3	Group1 VS Group3

NKXS01000371.1	63146	Group1 VS Group2	Group1 VS Group3
NKXS01000371.1	63179	Group1 VS Group2	Group1 VS Group3
NKXS01000410.1	47259	Group2 VS Group3	Group1 VS Group3
NKXS01000410.1	47346	Group2 VS Group3	Group1 VS Group3
NKXS01000410.1	47376	Group2 VS Group3	Group1 VS Group3
NKXS01000410.1	47443	Group2 VS Group3	Group1 VS Group3
NKXS01000437.1	5913	Group1 VS Group2	Group1 VS Group3
NKXS01000454.1	122130	Group2 VS Group3	Group1 VS Group3
NKXS01000662.1	95796	Group2 VS Group3	Group1 VS Group3
NKXS01000662.1	95823	Group2 VS Group3	Group1 VS Group3
NKXS01000733.1	6783	Group2 VS Group3	Group1 VS Group3
NKXS01000733.1	6796	Group2 VS Group3	Group1 VS Group3
NKXS01000733.1	6867	Group2 VS Group3	Group1 VS Group3
NKXS01000733.1	6882	Group2 VS Group3	Group1 VS Group3
NKXS01000733.1	6885	Group2 VS Group3	Group1 VS Group3
NKXS01000733.1	6886	Group2 VS Group3	Group1 VS Group3
NKXS01000733.1	6958	Group2 VS Group3	Group1 VS Group3
NKXS01000733.1	6963	Group2 VS Group3	Group1 VS Group3
NKXS01000733.1	90983	Group2 VS Group3	Group1 VS Group3
NKXS01000733.1	90988	Group1 VS Group2	Group1 VS Group3
NKXS01000733.1	91000	Group1 VS Group2	Group1 VS Group3
NKXS01000733.1	91164	Group2 VS Group3	Group1 VS Group3
NKXS01000791.1	14425	Group2 VS Group3	Group1 VS Group3
NKXS01000791.1	14473	Group2 VS Group3	Group1 VS Group3
NKXS01000791.1	14533	Group2 VS Group3	Group1 VS Group3
NKXS01000791.1	14563	Group2 VS Group3	Group1 VS Group3
NKXS01000791.1	14587	Group2 VS Group3	Group1 VS Group3
NKXS01000791.1	14635	Group2 VS Group3	Group1 VS Group3
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NKXS01000891.1	36063	Group2 VS Group3	Group1 VS Group3
NKXS01000891.1	36125	Group2 VS Group3	Group1 VS Group3
NKXS01000891.1	36146	Group2 VS Group3	Group1 VS Group3
NKXS01000891.1	36180	Group2 VS Group3	Group1 VS Group3
NKXS01000891.1	36221	Group1 VS Group2	Group1 VS Group3
NKXS01000891.1	36224	Group2 VS Group3	Group1 VS Group3
NKXS01000891.1	36266	Group1 VS Group2	Group1 VS Group3
NKXS01001329.1	96233	Group2 VS Group3	Group1 VS Group3
NKXS01001329.1	96258	Group2 VS Group3	Group1 VS Group3
NKXS01001329.1	96300	Group2 VS Group3	Group1 VS Group3
NKXS01001466.1	147669	Group1 VS Group2	Group1 VS Group3
NKXS01001466.1	147755	Group1 VS Group2	Group1 VS Group3
NKXS01001466.1	147787	Group2 VS Group3	Group1 VS Group3
NKXS01001466.1	147882	Group2 VS Group3	Group1 VS Group3
NKXS01001777.1	28533	Group2 VS Group3	Group1 VS Group3

NKXS01001777.1	28548	Group2 VS Group3	Group1 VS Group3
NKXS01001777.1	28626	Group2 VS Group3	Group1 VS Group3
NKXS01001777.1	28635	Group2 VS Group3	Group1 VS Group3
NKXS01001777.1	28728	Group2 VS Group3	Group1 VS Group3
NKXS01001777.1	28754	Group2 VS Group3	Group1 VS Group3
NKXS01001777.1	28779	Group1 VS Group2	Group1 VS Group3
NKXS01002066.1	20516	Group1 VS Group2	Group1 VS Group3
NKXS01002066.1	20525	Group1 VS Group2	Group1 VS Group3
NKXS01002126.1	81156	Group2 VS Group3	Group1 VS Group3
NKXS01002126.1	81320	Group2 VS Group3	Group1 VS Group3
NKXS01002126.1	81395	Group2 VS Group3	Group1 VS Group3
NKXS01002382.1	64915	Group2 VS Group3	Group1 VS Group3
NKXS01002626.1	37790	Group2 VS Group3	Group1 VS Group3
NKXS01002626.1	37921	Group2 VS Group3	Group1 VS Group3
NKXS01002626.1	37942	Group2 VS Group3	Group1 VS Group3
NKXS01002626.1	37951	Group2 VS Group3	Group1 VS Group3
NKXS01002626.1	37952	Group2 VS Group3	Group1 VS Group3
NKXS01002626.1	38017	Group2 VS Group3	Group1 VS Group3
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NKXS01003022.1	13553	Group2 VS Group3	Group1 VS Group3
NKXS01003022.1	13640	Group2 VS Group3	Group1 VS Group3
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NKXS01003645.1	11930	Group1 VS Group2	Group1 VS Group3
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NKXS01003645.1	12062	Group1 VS Group2	Group1 VS Group3
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NKXS01003929.1	51221	Group2 VS Group3	Group1 VS Group3
NKXS01003956.1	23709	Group1 VS Group2	Group1 VS Group3
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NKXS01003956.1	23784	Group1 VS Group2	Group1 VS Group3
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NKXS01003956.1	23832	Group1 VS Group2	Group1 VS Group3
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NKXS01003978.1	39171	Group2 VS Group3	Group1 VS Group3
NKXS01003978.1	39187	Group2 VS Group3	Group1 VS Group3
NKXS01003978.1	39198	Group2 VS Group3	Group1 VS Group3
NKXS01003978.1	39219	Group2 VS Group3	Group1 VS Group3
NKXS01003978.1	39237	Group2 VS Group3	Group1 VS Group3
NKXS01003978.1	39252	Group1 VS Group2	Group1 VS Group3
NKXS01003978.1	39276	Group1 VS Group2	Group1 VS Group3
NKXS01003984.1	39366	Group2 VS Group3	Group1 VS Group3
NKXS01003984.1	39383	Group2 VS Group3	Group1 VS Group3
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NKXS01004543.1	43961	Group1 VS Group2	Group1 VS Group3
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NKXS01005789.1	10715	Group2 VS Group3	Group1 VS Group3
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NKXS01005789.1	10794	Group2 VS Group3	Group1 VS Group3
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NKXS01005969.1	11239	Group2 VS Group3	Group1 VS Group3
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NKXS01006038.1	24264	Group1 VS Group2	Group1 VS Group3
NKXS01006038.1	24294	Group1 VS Group2	Group1 VS Group3
NKXS01006038.1	24311	Group1 VS Group2	Group1 VS Group3

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NKXS01007229.1	19432	Group2 VS Group3	Group1 VS Group3
NKXS01007229.1	19500	Group2 VS Group3	Group1 VS Group3
NKXS01007229.1	19553	Group2 VS Group3	Group1 VS Group3
NKXS01007229.1	19555	Group2 VS Group3	Group1 VS Group3
NKXS01007229.1	19588	Group2 VS Group3	Group1 VS Group3
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NKXS01007455.1	15304	Group2 VS Group3	Group1 VS Group3
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NKXS01007455.1	15406	Group2 VS Group3	Group1 VS Group3
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NKXS01000097.1	67734	Group2 VS Group3	
NKXS01000110.1	109826	Group1 VS Group3	
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NKXS01000203.1	38650	Group2 VS Group3	
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NKXS01000662.1	95783	Group1 VS Group3	
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NKXS01000733.1	6955	Group2 VS Group3	
NKXS01000733.1	90973	Group1 VS Group2	
NKXS01000733.1	91109	Group1 VS Group3	

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NKXS01000733.1	91149	Group1 VS Group3
NKXS01000777.1	8294	Group1 VS Group2
NKXS01000814.1	20833	Group2 VS Group3
NKXS01000858.1	11068	Group1 VS Group2
NKXS01000858.1	11117	Group1 VS Group2
NKXS01000863.1	154133	Group1 VS Group3
NKXS01000873.1	6723	Group2 VS Group3
NKXS01000873.1	6779	Group2 VS Group3
NKXS01000873.1	6790	Group2 VS Group3
NKXS01000873.1	6811	Group2 VS Group3
NKXS01000873.1	6832	Group2 VS Group3
NKXS01000873.1	6850	Group2 VS Group3
NKXS01000873.1	6913	Group2 VS Group3
NKXS01000877.1	93946	Group1 VS Group2
NKXS01000891.1	36186	Group1 VS Group3
NKXS01001197.1	3593	Group1 VS Group2
NKXS01001220.1	40545	Group1 VS Group3
NKXS01001222.1	8428	Group1 VS Group3
NKXS01001252.1	93689	Group2 VS Group3
NKXS01001252.1	93742	Group2 VS Group3
NKXS01001252.1	93794	Group2 VS Group3
NKXS01001252.1	93815	Group2 VS Group3
NKXS01001252.1	93884	Group2 VS Group3
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NKXS01001328.1	60470	Group1 VS Group3
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NKXS01001329.1	96230	Group1 VS Group3
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NKXS01001369.1	149040	Group1 VS Group3
NKXS01001369.1	149153	Group1 VS Group3
NKXS01001369.1	149167	Group1 VS Group3
NKXS01001446.1	56209	Group2 VS Group3
NKXS01001446.1	56224	Group2 VS Group3
NKXS01001446.1	56233	Group2 VS Group3
NKXS01001446.1	56251	Group2 VS Group3
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NKXS01001446.1	56461	Group2 VS Group3
NKXS01001466.1	147884	Group1 VS Group3

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NKXS01001642.1	75917	Group1 VS Group2
NKXS01001642.1	76112	Group1 VS Group2
NKXS01001680.1	10154	Group1 VS Group3
NKXS01001680.1	10223	Group1 VS Group3
NKXS01001777.1	28721	Group1 VS Group2
NKXS01001777.1	28790	Group1 VS Group3
NKXS01001857.1	31350	Group1 VS Group3
NKXS01001987.1	141137	Group1 VS Group3
NKXS01001991.1	34802	Group1 VS Group2
NKXS01001995.1	112623	Group1 VS Group2
NKXS01001995.1	112642	Group1 VS Group2
NKXS01001995.1	112651	Group1 VS Group2
NKXS01002126.1	81339	Group2 VS Group3
NKXS01002126.1	81408	Group1 VS Group3
NKXS01002196.1	20325	Group1 VS Group2
NKXS01002411.1	90610	Group1 VS Group2
NKXS01002411.1	90628	Group1 VS Group2
NKXS01002411.1	90726	Group1 VS Group2
NKXS01002555.1	33087	Group1 VS Group3
NKXS01002555.1	33107	Group1 VS Group3
NKXS01002555.1	33186	Group1 VS Group3
NKXS01002555.1	33214	Group1 VS Group3
NKXS01002561.1	2238	Group1 VS Group3
NKXS01002561.1	2253	Group1 VS Group3
NKXS01002626.1	37991	Group1 VS Group3
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NKXS01002705.1	111728	Group1 VS Group3
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NKXS01002705.1	111906	Group1 VS Group3
NKXS01002705.1	111908	Group1 VS Group3
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NKXS01002705.1	111984	Group1 VS Group3
NKXS01002866.1	46349	Group1 VS Group2
NKXS01002941.1	14273	Group1 VS Group3
NKXS01002941.1	14276	Group1 VS Group3
NKXS01002941.1	14382	Group1 VS Group3
NKXS01003142.1	55160	Group1 VS Group2
NKXS01003142.1	55207	Group1 VS Group2
NKXS01003142.1	55213	Group1 VS Group2
NKXS01003142.1	55270	Group1 VS Group2

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NKXS01003242.1	22671	Group1 VS Group3
NKXS01003242.1	22710	Group1 VS Group3
NKXS01003278.1	59837	Group1 VS Group2
NKXS01003313.1	38092	Group1 VS Group2
NKXS01003313.1	38218	Group1 VS Group2
NKXS01003313.1	38308	Group1 VS Group2
NKXS01003474.1	56118	Group1 VS Group3
NKXS01003474.1	56122	Group1 VS Group3
NKXS01003474.1	56158	Group1 VS Group3
NKXS01003474.1	56228	Group1 VS Group3
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NKXS01003480.1	9511	Group1 VS Group3
NKXS01003480.1	9565	Group1 VS Group3
NKXS01003480.1	9601	Group1 VS Group3
NKXS01003480.1	9636	Group1 VS Group3
NKXS01003490.1	12704	Group1 VS Group3
NKXS01003645.1	11925	Group1 VS Group3
NKXS01003743.1	18325	Group1 VS Group2
NKXS01003821.1	81016	Group1 VS Group2
NKXS01003821.1	81025	Group1 VS Group2
NKXS01003821.1	81226	Group1 VS Group2
NKXS01003829.1	32889	Group1 VS Group2
NKXS01003829.1	32891	Group1 VS Group2
NKXS01003854.1	25107	Group2 VS Group3
NKXS01003876.1	40495	Group2 VS Group3
NKXS01003929.1	51059	Group1 VS Group3
NKXS01003929.1	51225	Group1 VS Group3
NKXS01003956.1	23920	Group1 VS Group3
NKXS01003978.1	39270	Group1 VS Group3
NKXS01003981.1	26450	Group2 VS Group3
NKXS01003982.1	17568	Group1 VS Group3
NKXS01003982.1	17633	Group1 VS Group3
NKXS01003982.1	17641	Group1 VS Group3
NKXS01003982.1	17694	Group1 VS Group3
NKXS01003982.1	17710	Group1 VS Group3
NKXS01003984.1	39380	Group1 VS Group2
NKXS01003984.1	39418	Group1 VS Group2
NKXS01003984.1	39463	Group1 VS Group3
NKXS01003984.1	39532	Group1 VS Group3
NKXS01003984.1	39559	Group1 VS Group3



NKXS01004217.1	13018	Group2 VS Group3
NKXS01004338.1	17986	Group1 VS Group2
NKXS01004338.1	18037	Group1 VS Group2
NKXS01004369.1	11383	Group1 VS Group2
NKXS01004369.1	11431	Group1 VS Group2
NKXS01004486.1	40040	Group1 VS Group3
NKXS01004536.1	39476	Group1 VS Group2
NKXS01004539.1	1387	Group1 VS Group2
NKXS01004626.1	8638	Group1 VS Group2
NKXS01004626.1	8800	Group1 VS Group2
NKXS01004626.1	8863	Group1 VS Group2
NKXS01004673.1	22023	Group2 VS Group3
NKXS01004673.1	22038	Group2 VS Group3
NKXS01004944.1	45080	Group2 VS Group3
NKXS01004944.1	45090	Group2 VS Group3
NKXS01004944.1	45092	Group2 VS Group3
NKXS01004944.1	45115	Group2 VS Group3
NKXS01004944.1	45119	Group2 VS Group3
NKXS01004944.1	45356	Group2 VS Group3
NKXS01005229.1	43766	Group1 VS Group3
NKXS01005229.1	43780	Group1 VS Group3
NKXS01005365.1	10712	Group1 VS Group3
NKXS01005365.1	10736	Group1 VS Group3
NKXS01005365.1	10772	Group1 VS Group3
NKXS01005365.1	10778	Group1 VS Group3
NKXS01005365.1	10819	Group1 VS Group3
NKXS01005365.1	10874	Group1 VS Group3
NKXS01005365.1	10891	Group1 VS Group3
NKXS01005365.1	10895	Group1 VS Group3
NKXS01005396.1	90956	Group1 VS Group3
NKXS01005481.1	9446	Group2 VS Group3
NKXS01005481.1	9502	Group2 VS Group3
NKXS01005481.1	9600	Group2 VS Group3
NKXS01005511.1	6580	Group1 VS Group2
NKXS01005511.1	6625	Group1 VS Group2
NKXS01005511.1	6742	Group1 VS Group2
NKXS01005539.1	27366	Group2 VS Group3
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NKXS01005789.1	10566	Group1 VS Group3
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NKXS01005789.1	10625	Group1 VS Group3
NKXS01005789.1	10660	Group1 VS Group2
NKXS01005789.1	10669	Group1 VS Group3
NKXS01006000.1	40829	Group1 VS Group3

NKXS01006286.1	28068	Group1 VS Group3
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NKXS01006286.1	28182	Group1 VS Group3
NKXS01006289.1	3043	Group2 VS Group3
NKXS01006289.1	3055	Group2 VS Group3
NKXS01006289.1	3127	Group1 VS Group3
NKXS01006289.1	3169	Group2 VS Group3
NKXS01006438.1	29507	Group1 VS Group2
NKXS01006438.1	29513	Group1 VS Group2
NKXS01006438.1	29527	Group1 VS Group2
NKXS01006502.1	20790	Group1 VS Group3
NKXS01006502.1	20814	Group1 VS Group3
NKXS01006626.1	21568	Group2 VS Group3
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NKXS01006626.1	21702	Group2 VS Group3
NKXS01006626.1	21753	Group2 VS Group3
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NKXS01006626.1	21824	Group2 VS Group3
NKXS01006739.1	20640	Group1 VS Group2
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NKXS01006800.1	19459	Group1 VS Group2
NKXS01006800.1	19524	Group1 VS Group2
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NKXS01006800.1	19609	Group1 VS Group2
NKXS01006800.1	19619	Group1 VS Group2
NKXS01006800.1	19620	Group1 VS Group2
NKXS01007170.1	20842	Group2 VS Group3
NKXS01007170.1	20876	Group2 VS Group3
NKXS01007188.1	20513	Group1 VS Group2
NKXS01007188.1	20526	Group1 VS Group2
NKXS01007188.1	20566	Group1 VS Group2
NKXS01007188.1	20589	Group1 VS Group2
NKXS01007188.1	20602	Group1 VS Group2
NKXS01007229.1	19501	Group2 VS Group3
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NKXS01007455.1	15307	Group1 VS Group3
NKXS01007461.1	21560	Group1 VS Group2
NKXS01007580.1	2148	Group2 VS Group3

NKXS01007580.1	2348	Group2 VS Group3
NKXS01007673.1	15806	Group1 VS Group3
NKXS01007673.1	15911	Group1 VS Group3
NKXS01007673.1	15917	Group1 VS Group3
NKXS01007685.1	10082	Group1 VS Group3
NKXS01007685.1	10087	Group1 VS Group3
NKXS01007685.1	10095	Group1 VS Group3
NKXS01007685.1	10141	Group1 VS Group3
NKXS01007685.1	10163	Group1 VS Group3
NKXS01007685.1	10175	Group1 VS Group3
NKXS01007685.1	10184	Group1 VS Group3
NKXS01007685.1	10199	Group1 VS Group3
NKXS01007685.1	10314	Group1 VS Group3
NKXS01007704.1	14811	Group1 VS Group2
NKXS01007933.1	20396	Group1 VS Group2
NKXS01008073.1	8641	Group1 VS Group2
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NKXS01008073.1	8788	Group1 VS Group2
NKXS01008082.1	22456	Group2 VS Group3
NKXS01008142.1	9614	Group1 VS Group2
NKXS01008142.1	9755	Group1 VS Group2
NKXS01008169.1	31553	Group1 VS Group3
NKXS01008169.1	31572	Group1 VS Group3
NKXS01008732.1	9890	Group2 VS Group3
NKXS01008896.1	9458	Group1 VS Group2
NKXS01009259.1	13466	Group1 VS Group3
NKXS01009259.1	13703	Group1 VS Group3

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