

Table S9. High-quality loci could be used for distinguish cultivar in hybrids/unknow species

Species	Scaffolds	Position	Rate of no-majority genotype
Hybrids	NKXS01000279.1	88250	0.64
Hybrids	NKXS01000422.1	45454	0.64
Hybrids	NKXS01000493.1	10008	0.64
Hybrids	NKXS01000493.1	10016	0.64
Hybrids	NKXS01000493.1	10162	0.64
Hybrids	NKXS01000493.1	10182	0.64
Hybrids	NKXS01000931.1	113530	0.64
Hybrids	NKXS01001169.1	147019	0.64
Hybrids	NKXS01001170.1	1100	0.64
Hybrids	NKXS01001831.1	44905	0.64
Hybrids	NKXS01001831.1	45007	0.64
Hybrids	NKXS01001831.1	45042	0.64
Hybrids	NKXS01002344.1	83696	0.64
Hybrids	NKXS01002411.1	90589	0.64
Hybrids	NKXS01003242.1	22549	0.64
Hybrids	NKXS01003929.1	51247	0.64
Hybrids	NKXS01004120.1	22145	0.64
Hybrids	NKXS01004120.1	22313	0.64
Hybrids	NKXS01004369.1	11419	0.64
Hybrids	NKXS01004369.1	11422	0.64
Hybrids	NKXS01004369.1	11471	0.64
Hybrids	NKXS01004369.1	11507	0.64
Hybrids	NKXS01004369.1	11518	0.64
Hybrids	NKXS01004536.1	39287	0.64
Hybrids	NKXS01004536.1	39347	0.64
Hybrids	NKXS01004536.1	39489	0.64
Hybrids	NKXS01004579.1	41370	0.64
Hybrids	NKXS01006619.1	34755	0.64
Hybrids	NKXS01006731.1	43972	0.64
Hybrids	NKXS01006739.1	20514	0.64
Hybrids	NKXS01006739.1	20547	0.64
Hybrids	NKXS01006739.1	20650	0.64
Hybrids	NKXS01007121.1	8799	0.64
Hybrids	NKXS01007461.1	21615	0.64
Hybrids	NKXS01007633.1	16950	0.64
Hybrids	NKXS01000097.1	29639	0.55
Hybrids	NKXS01000144.1	9609	0.55
Hybrids	NKXS01000151.1	49416	0.55
Hybrids	NKXS01000159.1	109120	0.55
Hybrids	NKXS01000159.1	109307	0.55
Hybrids	NKXS01000175.1	58064	0.55

Hybrids	NKXS01000175.1	58166	0.55
Hybrids	NKXS01000175.1	79619	0.55
Hybrids	NKXS01000178.1	104143	0.55
Hybrids	NKXS01000186.1	222598	0.55
Hybrids	NKXS01000186.1	222726	0.55
Hybrids	NKXS01000236.1	9111	0.55
Hybrids	NKXS01000257.1	51618	0.55
Hybrids	NKXS01000263.1	7545	0.55
Hybrids	NKXS01000308.1	1202	0.55
Hybrids	NKXS01000321.1	84528	0.55
Hybrids	NKXS01000353.1	4089	0.55
Hybrids	NKXS01000353.1	4127	0.55
Hybrids	NKXS01000353.1	4174	0.55
Hybrids	NKXS01000396.1	67110	0.55
Hybrids	NKXS01000437.1	6108	0.55
Hybrids	NKXS01000444.1	71705	0.55
Hybrids	NKXS01000465.1	67444	0.55
Hybrids	NKXS01000484.1	137203	0.55
Hybrids	NKXS01000484.1	137289	0.55
Hybrids	NKXS01000484.1	137317	0.55
Hybrids	NKXS01000484.1	137321	0.55
Hybrids	NKXS01000484.1	137431	0.55
Hybrids	NKXS01000484.1	137435	0.55
Hybrids	NKXS01000484.1	137440	0.55
Hybrids	NKXS01000484.1	137461	0.55
Hybrids	NKXS01000487.1	107013	0.55
Hybrids	NKXS01000487.1	107155	0.55
Hybrids	NKXS01000562.1	56558	0.55
Hybrids	NKXS01000562.1	56590	0.55
Hybrids	NKXS01000562.1	56602	0.55
Hybrids	NKXS01000582.1	3917	0.55
Hybrids	NKXS01000582.1	3980	0.55
Hybrids	NKXS01000600.1	280503	0.55
Hybrids	NKXS01000610.1	45217	0.55
Hybrids	NKXS01000610.1	45250	0.55
Hybrids	NKXS01000733.1	91004	0.55
Hybrids	NKXS01000733.1	91024	0.55
Hybrids	NKXS01000733.1	91025	0.55
Hybrids	NKXS01000777.1	8176	0.55
Hybrids	NKXS01000777.1	8178	0.55
Hybrids	NKXS01000777.1	8201	0.55
Hybrids	NKXS01000777.1	8294	0.55
Hybrids	NKXS01000824.1	22974	0.55
Hybrids	NKXS01000892.1	25430	0.55

Hybrids	NKXS01000965.1	113911	0.55
Hybrids	NKXS01000965.1	114068	0.55
Hybrids	NKXS01000983.1	22011	0.55
Hybrids	NKXS01001144.1	2644	0.55
Hybrids	NKXS01001144.1	2739	0.55
Hybrids	NKXS01001144.1	2752	0.55
Hybrids	NKXS01001170.1	1043	0.55
Hybrids	NKXS01001170.1	1082	0.55
Hybrids	NKXS01001211.1	24901	0.55
Hybrids	NKXS01001328.1	60399	0.55
Hybrids	NKXS01001328.1	60519	0.55
Hybrids	NKXS01001329.1	96274	0.55
Hybrids	NKXS01001400.1	10085	0.55
Hybrids	NKXS01001448.1	83899	0.55
Hybrids	NKXS01001448.1	83965	0.55
Hybrids	NKXS01001448.1	84004	0.55
Hybrids	NKXS01001449.1	65980	0.55
Hybrids	NKXS01001471.1	19496	0.55
Hybrids	NKXS01001471.1	19547	0.55
Hybrids	NKXS01001471.1	19628	0.55
Hybrids	NKXS01001471.1	19640	0.55
Hybrids	NKXS01001471.1	19665	0.55
Hybrids	NKXS01001471.1	19680	0.55
Hybrids	NKXS01001525.1	57136	0.55
Hybrids	NKXS01001525.1	57181	0.55
Hybrids	NKXS01001642.1	76062	0.55
Hybrids	NKXS01001658.1	67645	0.55
Hybrids	NKXS01001663.1	29286	0.55
Hybrids	NKXS01001663.1	29355	0.55
Hybrids	NKXS01001663.1	30015	0.55
Hybrids	NKXS01001755.1	55408	0.55
Hybrids	NKXS01001755.1	55458	0.55
Hybrids	NKXS01001755.1	55483	0.55
Hybrids	NKXS01001777.1	28641	0.55
Hybrids	NKXS01001817.1	26284	0.55
Hybrids	NKXS01001875.1	34589	0.55
Hybrids	NKXS01001972.1	6902	0.55
Hybrids	NKXS01001972.1	6940	0.55
Hybrids	NKXS01001972.1	6977	0.55
Hybrids	NKXS01001987.1	141179	0.55
Hybrids	NKXS01002108.1	3870	0.55
Hybrids	NKXS01002148.1	12333	0.55
Hybrids	NKXS01002196.1	20240	0.55
Hybrids	NKXS01002282.1	35967	0.55

Hybrids	NKXS01002288.1	1914	0.55
Hybrids	NKXS01002502.1	19912	0.55
Hybrids	NKXS01002502.1	19953	0.55
Hybrids	NKXS01002519.1	13549	0.55
Hybrids	NKXS01002555.1	35150	0.55
Hybrids	NKXS01002575.1	6267	0.55
Hybrids	NKXS01002616.1	41843	0.55
Hybrids	NKXS01002616.1	41924	0.55
Hybrids	NKXS01002616.1	42020	0.55
Hybrids	NKXS01002646.1	40757	0.55
Hybrids	NKXS01002744.1	48835	0.55
Hybrids	NKXS01002744.1	48893	0.55
Hybrids	NKXS01002745.1	33498	0.55
Hybrids	NKXS01002749.1	28651	0.55
Hybrids	NKXS01002828.1	93130	0.55
Hybrids	NKXS01002828.1	93140	0.55
Hybrids	NKXS01002828.1	93144	0.55
Hybrids	NKXS01002828.1	93149	0.55
Hybrids	NKXS01002828.1	93162	0.55
Hybrids	NKXS01003043.1	74905	0.55
Hybrids	NKXS01003078.1	16425	0.55
Hybrids	NKXS01003091.1	9385	0.55
Hybrids	NKXS01003091.1	9569	0.55
Hybrids	NKXS01003113.1	33067	0.55
Hybrids	NKXS01003142.1	55098	0.55
Hybrids	NKXS01003142.1	55155	0.55
Hybrids	NKXS01003142.1	55186	0.55
Hybrids	NKXS01003278.1	59660	0.55
Hybrids	NKXS01003278.1	59666	0.55
Hybrids	NKXS01003340.1	37397	0.55
Hybrids	NKXS01003382.1	15014	0.55
Hybrids	NKXS01003382.1	15021	0.55
Hybrids	NKXS01003545.1	33613	0.55
Hybrids	NKXS01003549.1	31451	0.55
Hybrids	NKXS01003549.1	31469	0.55
Hybrids	NKXS01003576.1	98109	0.55
Hybrids	NKXS01003668.1	11465	0.55
Hybrids	NKXS01003717.1	21640	0.55
Hybrids	NKXS01003929.1	51094	0.55
Hybrids	NKXS01003929.1	51184	0.55
Hybrids	NKXS01003955.1	38763	0.55
Hybrids	NKXS01003956.1	23937	0.55
Hybrids	NKXS01003972.1	15396	0.55
Hybrids	NKXS01003972.1	15560	0.55

Hybrids	NKXS01003972.1	15566	0.55
Hybrids	NKXS01003978.1	39096	0.55
Hybrids	NKXS01004041.1	32103	0.55
Hybrids	NKXS01004041.1	32108	0.55
Hybrids	NKXS01004069.1	81620	0.55
Hybrids	NKXS01004071.1	16529	0.55
Hybrids	NKXS01004122.1	59309	0.55
Hybrids	NKXS01004122.1	59370	0.55
Hybrids	NKXS01004122.1	59377	0.55
Hybrids	NKXS01004137.1	29057	0.55
Hybrids	NKXS01004175.1	36477	0.55
Hybrids	NKXS01004263.1	50673	0.55
Hybrids	NKXS01004263.1	50844	0.55
Hybrids	NKXS01004369.1	11487	0.55
Hybrids	NKXS01004437.1	14820	0.55
Hybrids	NKXS01004543.1	43799	0.55
Hybrids	NKXS01004543.1	43910	0.55
Hybrids	NKXS01004579.1	41408	0.55
Hybrids	NKXS01004756.1	15578	0.55
Hybrids	NKXS01004756.1	15600	0.55
Hybrids	NKXS01004966.1	55876	0.55
Hybrids	NKXS01005129.1	25048	0.55
Hybrids	NKXS01005129.1	25058	0.55
Hybrids	NKXS01005129.1	25101	0.55
Hybrids	NKXS01005156.1	24156	0.55
Hybrids	NKXS01005210.1	15532	0.55
Hybrids	NKXS01005210.1	1637	0.55
Hybrids	NKXS01005210.1	1740	0.55
Hybrids	NKXS01005651.1	19671	0.55
Hybrids	NKXS01005702.1	12902	0.55
Hybrids	NKXS01005789.1	10813	0.55
Hybrids	NKXS01005789.1	23722	0.55
Hybrids	NKXS01005865.1	29154	0.55
Hybrids	NKXS01006000.1	40616	0.55
Hybrids	NKXS01006000.1	40739	0.55
Hybrids	NKXS01006000.1	40836	0.55
Hybrids	NKXS01006066.1	23751	0.55
Hybrids	NKXS01006151.1	20677	0.55
Hybrids	NKXS01006201.1	20114	0.55
Hybrids	NKXS01006289.1	3133	0.55
Hybrids	NKXS01006289.1	3268	0.55
Hybrids	NKXS01006438.1	29511	0.55
Hybrids	NKXS01006438.1	29607	0.55
Hybrids	NKXS01006479.1	34378	0.55

Hybrids	NKXS01006639.1	42046	0.55
Hybrids	NKXS01006639.1	42067	0.55
Hybrids	NKXS01006639.1	42130	0.55
Hybrids	NKXS01006752.1	5511	0.55
Hybrids	NKXS01006752.1	5631	0.55
Hybrids	NKXS01006752.1	5767	0.55
Hybrids	NKXS01006883.1	16541	0.55
Hybrids	NKXS01006978.1	21641	0.55
Hybrids	NKXS01006994.1	10029	0.55
Hybrids	NKXS01007175.1	24825	0.55
Hybrids	NKXS01007214.1	17093	0.55
Hybrids	NKXS01007218.1	10190	0.55
Hybrids	NKXS01007218.1	10365	0.55
Hybrids	NKXS01007229.1	19390	0.55
Hybrids	NKXS01007229.1	19444	0.55
Hybrids	NKXS01007229.1	19576	0.55
Hybrids	NKXS01007229.1	19585	0.55
Hybrids	NKXS01007229.1	19597	0.55
Hybrids	NKXS01007290.1	8084	0.55
Hybrids	NKXS01007455.1	15385	0.55
Hybrids	NKXS01007461.1	21591	0.55
Hybrids	NKXS01007461.1	21628	0.55
Hybrids	NKXS01007531.1	5455	0.55
Hybrids	NKXS01007947.1	2694	0.55
Hybrids	NKXS01007947.1	2714	0.55
Hybrids	NKXS01008073.1	8669	0.55
Hybrids	NKXS01008073.1	8749	0.55
Hybrids	NKXS01008303.1	1137	0.55
Hybrids	NKXS01009549.1	511	0.55
Hybrids	NKXS01000003.1	6136	0.45
Hybrids	NKXS01000006.1	229457	0.45
Hybrids	NKXS01000006.1	31429	0.45
Hybrids	NKXS01000017.1	167473	0.45
Hybrids	NKXS01000017.1	89869	0.45
Hybrids	NKXS01000017.1	89971	0.45
Hybrids	NKXS01000021.1	211213	0.45
Hybrids	NKXS01000021.1	211343	0.45
Hybrids	NKXS01000050.1	217584	0.45
Hybrids	NKXS01000051.1	215773	0.45
Hybrids	NKXS01000070.1	7111	0.45
Hybrids	NKXS01000071.1	137732	0.45
Hybrids	NKXS01000071.1	137779	0.45
Hybrids	NKXS01000094.1	113226	0.45
Hybrids	NKXS01000097.1	67723	0.45

Hybrids	NKXS01000097.1	67734	0.45
Hybrids	NKXS01000097.1	67743	0.45
Hybrids	NKXS01000118.1	57374	0.45
Hybrids	NKXS01000119.1	8677	0.45
Hybrids	NKXS01000132.1	19365	0.45
Hybrids	NKXS01000144.1	9684	0.45
Hybrids	NKXS01000144.1	9711	0.45
Hybrids	NKXS01000144.1	9810	0.45
Hybrids	NKXS01000147.1	91518	0.45
Hybrids	NKXS01000147.1	91542	0.45
Hybrids	NKXS01000147.1	91592	0.45
Hybrids	NKXS01000147.1	91691	0.45
Hybrids	NKXS01000172.1	89166	0.45
Hybrids	NKXS01000172.1	89268	0.45
Hybrids	NKXS01000174.1	5186	0.45
Hybrids	NKXS01000174.1	5248	0.45
Hybrids	NKXS01000175.1	79589	0.45
Hybrids	NKXS01000181.1	128673	0.45
Hybrids	NKXS01000199.1	176954	0.45
Hybrids	NKXS01000199.1	177035	0.45
Hybrids	NKXS01000199.1	177145	0.45
Hybrids	NKXS01000241.1	186195	0.45
Hybrids	NKXS01000241.1	192843	0.45
Hybrids	NKXS01000244.1	124739	0.45
Hybrids	NKXS01000244.1	124791	0.45
Hybrids	NKXS01000259.1	45603	0.45
Hybrids	NKXS01000259.1	45626	0.45
Hybrids	NKXS01000278.1	104443	0.45
Hybrids	NKXS01000278.1	104554	0.45
Hybrids	NKXS01000278.1	104619	0.45
Hybrids	NKXS01000278.1	104654	0.45
Hybrids	NKXS01000278.1	65099	0.45
Hybrids	NKXS01000288.1	125098	0.45
Hybrids	NKXS01000290.1	129161	0.45
Hybrids	NKXS01000293.1	13924	0.45
Hybrids	NKXS01000293.1	14076	0.45
Hybrids	NKXS01000296.1	2471	0.45
Hybrids	NKXS01000315.1	50824	0.45
Hybrids	NKXS01000322.1	29642	0.45
Hybrids	NKXS01000322.1	29666	0.45
Hybrids	NKXS01000329.1	5883	0.45
Hybrids	NKXS01000339.1	186180	0.45
Hybrids	NKXS01000359.1	183493	0.45
Hybrids	NKXS01000364.1	111033	0.45

Hybrids	NKXS01000368.1	683	0.45
Hybrids	NKXS01000368.1	736	0.45
Hybrids	NKXS01000368.1	754	0.45
Hybrids	NKXS01000368.1	755	0.45
Hybrids	NKXS01000437.1	5982	0.45
Hybrids	NKXS01000437.1	6097	0.45
Hybrids	NKXS01000437.1	6101	0.45
Hybrids	NKXS01000437.1	6112	0.45
Hybrids	NKXS01000437.1	6129	0.45
Hybrids	NKXS01000437.1	6132	0.45
Hybrids	NKXS01000454.1	122018	0.45
Hybrids	NKXS01000455.1	123777	0.45
Hybrids	NKXS01000455.1	123812	0.45
Hybrids	NKXS01000485.1	35709	0.45
Hybrids	NKXS01000493.1	10165	0.45
Hybrids	NKXS01000517.1	129960	0.45
Hybrids	NKXS01000517.1	129994	0.45
Hybrids	NKXS01000517.1	130199	0.45
Hybrids	NKXS01000546.1	25169	0.45
Hybrids	NKXS01000546.1	25243	0.45
Hybrids	NKXS01000552.1	38092	0.45
Hybrids	NKXS01000552.1	38104	0.45
Hybrids	NKXS01000558.1	180392	0.45
Hybrids	NKXS01000584.1	9457	0.45
Hybrids	NKXS01000584.1	9547	0.45
Hybrids	NKXS01000600.1	280466	0.45
Hybrids	NKXS01000610.1	45226	0.45
Hybrids	NKXS01000633.1	56099	0.45
Hybrids	NKXS01000633.1	56110	0.45
Hybrids	NKXS01000633.1	56287	0.45
Hybrids	NKXS01000633.1	56295	0.45
Hybrids	NKXS01000654.1	39177	0.45
Hybrids	NKXS01000654.1	39228	0.45
Hybrids	NKXS01000654.1	39343	0.45
Hybrids	NKXS01000655.1	56430	0.45
Hybrids	NKXS01000655.1	56576	0.45
Hybrids	NKXS01000655.1	56621	0.45
Hybrids	NKXS01000655.1	56647	0.45
Hybrids	NKXS01000662.1	95793	0.45
Hybrids	NKXS01000662.1	95949	0.45
Hybrids	NKXS01000662.1	95977	0.45
Hybrids	NKXS01000670.1	101418	0.45
Hybrids	NKXS01000672.1	10223	0.45
Hybrids	NKXS01000686.1	16717	0.45

Hybrids	NKXS01000686.1	16868	0.45
Hybrids	NKXS01000686.1	16916	0.45
Hybrids	NKXS01000699.1	166254	0.45
Hybrids	NKXS01000703.1	44195	0.45
Hybrids	NKXS01000711.1	113576	0.45
Hybrids	NKXS01000770.1	97897	0.45
Hybrids	NKXS01000775.1	111680	0.45
Hybrids	NKXS01000775.1	111766	0.45
Hybrids	NKXS01000778.1	246494	0.45
Hybrids	NKXS01000782.1	80638	0.45
Hybrids	NKXS01000782.1	80697	0.45
Hybrids	NKXS01000782.1	80790	0.45
Hybrids	NKXS01000796.1	52929	0.45
Hybrids	NKXS01000820.1	104785	0.45
Hybrids	NKXS01000820.1	104864	0.45
Hybrids	NKXS01000852.1	107284	0.45
Hybrids	NKXS01000852.1	110531	0.45
Hybrids	NKXS01000858.1	11134	0.45
Hybrids	NKXS01000867.1	93368	0.45
Hybrids	NKXS01000867.1	93403	0.45
Hybrids	NKXS01000867.1	93517	0.45
Hybrids	NKXS01000867.1	95862	0.45
Hybrids	NKXS01000867.1	95893	0.45
Hybrids	NKXS01000890.1	134403	0.45
Hybrids	NKXS01000905.1	102567	0.45
Hybrids	NKXS01000905.1	102578	0.45
Hybrids	NKXS01000905.1	102580	0.45
Hybrids	NKXS01000905.1	102608	0.45
Hybrids	NKXS01000905.1	102651	0.45
Hybrids	NKXS01000927.1	91081	0.45
Hybrids	NKXS01000956.1	9370	0.45
Hybrids	NKXS01000956.1	9374	0.45
Hybrids	NKXS01000956.1	9596	0.45
Hybrids	NKXS01000960.1	90691	0.45
Hybrids	NKXS01000963.1	28152	0.45
Hybrids	NKXS01001059.1	139778	0.45
Hybrids	NKXS01001062.1	123312	0.45
Hybrids	NKXS01001085.1	39345	0.45
Hybrids	NKXS01001085.1	39458	0.45
Hybrids	NKXS01001085.1	39527	0.45
Hybrids	NKXS01001087.1	107200	0.45
Hybrids	NKXS01001127.1	45852	0.45
Hybrids	NKXS01001134.1	14416	0.45
Hybrids	NKXS01001134.1	14446	0.45

Hybrids	NKXS01001144.1	2616	0.45
Hybrids	NKXS01001153.1	62985	0.45
Hybrids	NKXS01001211.1	24840	0.45
Hybrids	NKXS01001211.1	24843	0.45
Hybrids	NKXS01001212.1	89022	0.45
Hybrids	NKXS01001220.1	90037	0.45
Hybrids	NKXS01001220.1	90119	0.45
Hybrids	NKXS01001232.1	49562	0.45
Hybrids	NKXS01001232.1	49606	0.45
Hybrids	NKXS01001232.1	75898	0.45
Hybrids	NKXS01001232.1	76041	0.45
Hybrids	NKXS01001279.1	32300	0.45
Hybrids	NKXS01001281.1	17353	0.45
Hybrids	NKXS01001283.1	48729	0.45
Hybrids	NKXS01001283.1	48737	0.45
Hybrids	NKXS01001283.1	48855	0.45
Hybrids	NKXS01001289.1	55467	0.45
Hybrids	NKXS01001306.1	41438	0.45
Hybrids	NKXS01001306.1	41447	0.45
Hybrids	NKXS01001306.1	41501	0.45
Hybrids	NKXS01001312.1	89319	0.45
Hybrids	NKXS01001312.1	89354	0.45
Hybrids	NKXS01001312.1	89358	0.45
Hybrids	NKXS01001312.1	89364	0.45
Hybrids	NKXS01001312.1	89398	0.45
Hybrids	NKXS01001312.1	89416	0.45
Hybrids	NKXS01001312.1	89446	0.45
Hybrids	NKXS01001312.1	89447	0.45
Hybrids	NKXS01001312.1	89452	0.45
Hybrids	NKXS01001329.1	96554	0.45
Hybrids	NKXS01001337.1	16209	0.45
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Hybrids	NKXS01001366.1	33858	0.45
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