

Supplemental Table S2. Information of contigs containing SNPs.

Contig	Length	No. of genes
Contig2655 ref0000096	35620	0
Contig1938 ref0000500	17953	0
Contig2702 ref0000539	70525	0
Contig2109 ref0001040	16744	0
Contig743 ref0001070	28563	0
Contig459 ref0001171	47723	0
Contig906 ref0001547	31211	0
Contig241 ref0001784	20428	0
Contig2187 ref0002270	69956	0
Contig838 ref0002343	72870	0
Contig2460 ref0002513	91273	0
Contig1887 ref0002835	127470	0
Contig996 ref0002853	15754	0
Contig2091 ref0000088	28543	0
Contig770 ref0000374	56529	0
Contig1737 ref0000925	45667	0
Contig2102 ref0001035	39074	0
Contig1698 ref0001107	19337	0
Contig131 ref0001290	7026	0
Contig37 ref0001686	220100	0
Contig118 ref0001741	30237	0
Contig482 ref0001827	35257	0
Contig1471 ref0001907	39391	0
Contig2188 ref0002262	28275	0
Contig637 ref0002356	21234	0
Contig1759 ref0001362	65423	0
Contig1532 ref0002508	59457	0
Contig2479 ref0000139	36677	0
Contig1043 ref0002899	27378	0
Contig2121 ref0001195	54188	0
Contig903 ref0001552	28090	0
Contig569 ref0000249	52950	0
Contig525 ref0002401	54296	0
Contig1788 ref0001597	97031	0
Contig2369 ref0001924	177591	0
Contig1997 ref0000608	55619	0
Contig2887 ref0002273	56210	0
Contig2391 ref0002841	17145	1
Contig154 ref0000862	182471	0
Contig1512 ref0002747	84085	0
Contig2458 ref0000585	84371	0
Contig2304 ref0001488	36070	1
Contig2196 ref0002087	27921	0
Contig2237 ref0002290	15017	0
Contig375 ref0002916	146824	0
Contig2041 ref0000338	13207	0
Contig210 ref0001117	58597	0
Contig1156 ref0002135	45543	0
Contig2614 ref0001013	17381	0

Contig729 ref0002668	206837	0
Contig2880 ref0000148	16385	0
Contig2026 ref0000807	12076	0
Contig2302 ref0001482	45444	0
Contig2582 ref0001009	287578	1
Contig1704 ref0000256	16045	1
Contig2672 ref0000566	97542	0
Contig1467 ref0000019	116410	0
Contig1958 ref0001860	23490	0
Contig557 ref0000466	38093	0
Contig897 ref0000657	32673	0
Contig2906 ref0000767	40284	0
Contig1866 ref0000006	34055	0
Contig234 ref0002512	17156	0
Contig43 ref0000134	36065	0
Contig2280 ref0000363	40362	2
Contig1649 ref0000901	49468	0
Contig1481 ref0001194	172721	3
Contig141 ref0001064	31240	0
Contig2434 ref0001889	113446	0
Contig2378 ref0001712	17336	0
Contig2885 ref0001855	29094	2
Contig2090 ref0000089	52968	0
Contig1749 ref0001132	30367	0
Contig25 ref0001478	17330	0
Contig2361 ref0001920	44008	0
Contig1181 ref0002378	38746	0
Contig331 ref0000884	31856	0
Contig2789 ref0001906	28454	4
Contig253 ref0001983	33454	0
Contig1027 ref0001294	22472	0
Contig1522 ref0002339	21133	0
Contig534 ref0002211	27184	0
Contig399 ref0001183	28468	2
Contig2771 ref0002074	24844	0
Contig2882 ref0002260	33906	1
Contig418 ref0000281	38323	0
Contig504 ref0002752	29838	0
Contig1048 ref0002906	42946	0
Contig2679 ref0000562	28019	1
Contig2804 ref0001670	94038	0
Contig1035 ref0000079	46499	0
Contig1670 ref0000220	34025	0
Contig499 ref0002006	39149	0
Contig1004 ref0000868	36861	1
Contig1356 ref0000974	38073	0
Contig1723 ref0000988	274383	2
Contig100 ref0001941	41061	0
Contig1184 ref0002373	39673	0
Contig1957 ref0001642	31129	0
Contig2160 ref0002247	34128	0

Contig1445 ref0002568	44377	0
Contig798 ref0000471	220548	4
Contig204 ref0000914	51126	0
Contig2154 ref0000347	56888	0
Contig864 ref0001315	21248	0
Contig1621 ref0001196	49386	1
Contig1763 ref0001579	171663	0
Contig1837 ref0001856	37896	0
Contig2463 ref0002511	46717	0
Contig1346 ref0000752	35719	5
Contig1330 ref0002201	140481	2
Contig2795 ref0001700	36645	1
Contig1577 ref0001808	44187	1
Contig2062 ref0002827	139667	0
Contig1256 ref0000260	40995	0
Contig2446 ref0000349	27664	0
Contig17 ref0001245	24281	0
Contig2576 ref0001724	29563	5
Contig2860 ref0001871	83856	3
Contig983 ref0000147	49458	0
Contig552 ref0000463	24358	1
Contig1933 ref0000504	27167	2
Contig336 ref0000887	44884	0
Contig2597 ref0001492	44124	1
Contig2471 ref0000127	54990	0
Contig1977 ref0001386	28533	0
Contig26 ref0001475	41091	0
Contig2695 ref0002229	50467	1
Contig2769 ref0002258	58586	0
Contig2751 ref0002432	43360	1
Contig899 ref0000655	36804	0
Contig1898 ref0002582	38297	0
Contig2781 ref0001914	37546	0
Contig508 ref0002756	50657	1
Contig876 ref0001524	61236	1
Contig221 ref0002553	39572	1
Contig796 ref0000485	36142	1
Contig260 ref0001355	47626	3
Contig2916 ref0000526	72878	2
Contig901 ref0002777	89342	2
Contig170 ref0000388	36533	1
Contig164 ref0000607	53566	0
Contig2020 ref0000813	65996	2
Contig289 ref0002485	61469	0
Contig2095 ref0000084	75282	0
Contig913 ref0001332	79920	0
Contig908 ref0001542	55673	1
Contig672 ref0001620	53171	4
Contig2642 ref0002813	33247	1
Contig2858 ref0000991	53414	1
Contig2077 ref0000110	72002	7

Contig2284 ref0000367	134180	2
Contig2910 ref0000524	65976	0
Contig1410 ref0001660	17645	0
Contig1925 ref0000277	46815	2
Contig484 ref0001829	41778	0
Contig628 ref0002199	196958	1
Contig2612 ref0001019	91854	4
Contig861 ref0001318	52404	0
Contig2636 ref0001448	48621	0
Contig721 ref0001544	60558	0
Contig248 ref0001781	118940	0
Contig954 ref0000382	95136	0
Contig1910 ref0000943	77313	0
Contig1853 ref0002384	56326	0
Contig2398 ref0002844	56279	4
Contig2207 ref0001743	487064	4
Contig1145 ref0001969	86111	0
Contig1162 ref0001536	81305	2
Contig1062 ref0002312	49561	10
Contig1968 ref0001160	81629	0
Contig1953 ref0001650	84824	0
Contig2195 ref0002090	40758	0
Contig2867 ref0002623	75995	0
Contig2406 ref0002467	44417	0
Contig1948 ref0001653	200078	0
Contig2225 ref0002111	257088	0
Contig2236 ref0002291	97044	0
Contig187 ref0000178	118032	9
Contig891 ref0000663	71854	7
Contig1794 ref0001821	77532	0
Contig49 ref0000124	67576	0
Contig46 ref0000137	63861	3
Contig2754 ref0002427	71466	0
Contig370 ref0002921	62583	0
Contig733 ref0002491	92461	5
Contig1903 ref0000731	76262	5
Contig1194 ref0002538	93105	1
Contig828 ref0002909	71711	8
Contig2319 ref0001259	59038	0
Contig481 ref0001824	52394	2
Contig1974 ref0001385	78981	0
Contig1780 ref0001602	82439	2
Contig1436 ref0002037	57391	0
Contig2411 ref0002648	120270	2
Contig2448 ref0000341	119587	0
Contig2785 ref0001910	59212	1
Contig1094 ref0001986	75685	2
Contig2856 ref0000997	96402	7
Contig1342 ref0000748	100136	5
Contig352 ref0002523	108649	0
Contig3 ref0000573	82060	0

Contig1614 ref0001793	44626	0
Contig717 ref0002153	114425	2
Contig1518 ref0002908	111237	9
Contig1549 ref0001993	112722	0
Contig2269 ref0002859	116055	0
Contig150 ref0000866	131530	0
Contig389 ref0002346	594329	5
Contig2841 ref0000777	88705	3
Contig2508 ref0001718	65526	0
Contig844 ref0002029	121547	0
Contig1601 ref0002926	100605	8
Contig2565 ref0001933	53286	4
Contig1459 ref0002413	64344	1
Contig1235 ref0000712	77294	9
Contig1905 ref0000725	83334	0
Contig1344 ref0000754	80422	1
Contig2432 ref0001885	93062	0
Contig2772 ref0002071	110825	0
Contig137 ref0001288	95566	0
Contig2675 ref0000571	87497	0
Contig1932 ref0002639	81370	12
Contig851 ref0001090	60179	3
Contig2316 ref0001263	92636	0
Contig1973 ref0001390	102162	4
Contig1842 ref0002548	91432	3
Contig1513 ref0002746	98034	0
Contig1107 ref0001099	101129	0
Contig1371 ref0001420	141171	3
Contig1918 ref0000949	77517	0
Contig2759 ref0002436	135885	0
Contig2609 ref0000798	110208	8
Contig627 ref0002188	110109	3
Contig2346 ref0002304	128989	0
Contig612 ref0002715	80387	8
Contig2111 ref0001694	105049	0
Contig98 ref0002779	126779	4
Contig1216 ref0001139	123531	5
Contig1966 ref0001152	89273	7
Contig2451 ref0000592	116400	0
Contig1899 ref0002584	119263	7
Contig196 ref0002894	118301	11
Contig2483 ref0001242	99777	0
Contig730 ref0002494	99250	0
Contig143 ref0001066	92431	2
Contig1014 ref0000648	132836	7
Contig1109 ref0001105	143140	5
Contig2686 ref0002051	123830	5
Contig739 ref0002495	104027	0
Contig517 ref0002560	126198	5
Contig1047 ref0002903	149856	6
Contig1294 ref0002682	126126	5

Contig2079	ref0000102	133231	0
Contig2305	ref0001487	138494	0
Contig2278	ref0000152	102839	7
Contig1042	ref0002900	93020	0
Contig1242	ref0000487	97294	2
Contig801	ref0001759	138870	4
Contig1646	ref0002044	145998	0
Contig378	ref0002913	90893	1
Contig2098	ref0000091	128192	2
Contig857	ref0001092	146595	0
Contig1528	ref0002333	150001	5
Contig379	ref0002912	127077	0
Contig2762	ref0002253	123939	0
Contig528	ref0002392	126364	0
Contig2073	ref0000106	133927	0
Contig687	ref0001308	132611	7
Contig1550	ref0002162	189919	0
Contig2309	ref0001489	81796	0
Contig309	ref0000674	131787	2
Contig360	ref0000195	99298	7
Contig1130	ref0000892	117475	5
Contig2862	ref0001869	149110	8
Contig419	ref0000282	119499	3
Contig14	ref0001248	135862	0
Contig1553	ref0002159	136071	1
Contig2815	ref0001875	162802	7
Contig2314	ref0001261	119424	0
Contig670	ref0001622	184323	9
Contig882	ref0000413	122858	0
Contig1370	ref0001421	123966	2
Contig2019	ref0001495	166016	12
Contig1221	ref0000933	180088	2
Contig1026	ref0001295	121070	11
Contig450	ref0001168	458780	5
Contig2826	ref0001201	135192	0
Contig2038	ref0001029	168491	11
Contig920	ref0001061	150333	11
Contig1976	ref0001387	193243	0
Contig1347	ref0000753	162519	0
Contig1686	ref0001345	94678	9
Contig59	ref0000351	171855	11
Contig993	ref0002848	268273	0
Contig368	ref0000203	183478	28
Contig394	ref0000842	213794	6
Contig1009	ref0001909	178547	0
Contig2827	ref0001202	215167	4
Contig1792	ref0001819	171555	5
Contig2849	ref0000781	134715	6
Contig2546	ref0000606	144327	0
Contig1091	ref0001991	134941	0
Contig497	ref0002002	187907	0

Contig995 ref0002854	188979	0
Contig2696 ref0002232	188313	5
Contig2520 ref0002635	196668	0
Contig270 ref0001570	154017	2
Contig2264 ref0002864	163882	5
Contig1217 ref0001140	207781	0
Contig31 ref0001688	145883	0
Contig2756 ref0002429	195574	3
Contig764 ref0000551	207961	0
Contig1716 ref0002601	178697	0
Contig965 ref0001081	222383	3
Contig2550 ref0002583	185171	11
Contig2510 ref0002103	210019	6
Contig1337 ref0002194	203427	5
Contig2409 ref0002464	136575	0
Contig1421 ref0002216	220527	0
Contig2323 ref0001046	171618	0
Contig1046 ref0002904	200230	0
Contig1504 ref0001645	208304	7
Contig602 ref0002521	165135	0
Contig2681 ref0002058	177626	0
Contig799 ref0000470	223350	0
Contig1003 ref0001932	210734	16
Contig285 ref0002479	197865	0
Contig2796 ref0001701	186015	11
Contig435 ref0000739	209063	15
Contig2524 ref0002631	160112	4
Contig1297 ref0002685	229512	7
Contig594 ref0001719	219701	10
Contig2515 ref0002100	227847	0
Contig94 ref0002783	235759	12
Contig300 ref0000671	175566	0
Contig2375 ref0001706	272968	11
Contig2656 ref0000099	204960	0
Contig2266 ref0002866	344252	0
Contig1070 ref0000187	247422	7
Contig1017 ref0000647	203339	15
Contig2517 ref0002098	222248	8
Contig1669 ref0000432	227694	17
Contig2619 ref0001010	192866	20
Contig1310 ref0001850	235032	0
Contig2562 ref0001928	231048	0
Contig2099 ref0000090	233788	9
Contig1401 ref0001861	240285	11
Contig669 ref0001407	234735	25
Contig477 ref0001613	248119	14
Contig745 ref0001058	189916	0
Contig2835 ref0001434	247676	12
Contig282 ref0002482	206902	23
Contig1525 ref0002338	231911	5
Contig561 ref0000245	216783	0

Contig2056 ref0000280	223374	24
Contig856 ref0001091	222324	14
Contig2525 ref0002630	233194	19
Contig407 ref0000053	207382	20
Contig56 ref0000358	212697	14
Contig2055 ref0000283	258357	0
Contig2775 ref0002078	274451	0
Contig1828 ref0000966	236207	0
Contig426 ref0000513	304088	11
Contig1446 ref0002571	248633	7
Contig598 ref0001361	264153	0
Contig242 ref0001783	268624	8
Contig18 ref0001256	292588	3
Contig1316 ref0001848	322731	0
Contig1096 ref0001984	258558	11
Contig400 ref0000048	281473	0
Contig2311 ref0001266	289466	9
Contig653 ref0002010	281969	0
Contig384 ref0002349	320480	18
Contig575 ref0000011	286237	36
Contig680 ref0001307	289547	35
Contig2214 ref0002184	346351	0
Contig1805 ref0000445	266918	9
Contig1237 ref0000710	297576	8
Contig2742 ref0002616	634732	10
Contig73 ref0000820	292321	0
Contig1382 ref0000207	293801	10
Contig2248 ref0002456	410313	0
Contig1222 ref0000936	360102	0
Contig1045 ref0002901	319395	26
Contig2045 ref0000334	296382	0
Contig2726 ref0000552	273585	7
Contig1591 ref0001382	292754	43
Contig2602 ref0000803	312198	0
Contig1163 ref0001537	362360	9
Contig2063 ref0002828	290068	21
Contig223 ref0002555	274434	0
Contig716 ref0002154	331901	0
Contig1881 ref0001039	527983	13
Contig2540 ref0002519	360094	7
Contig107 ref0001940	270540	0
Contig639 ref0002364	291878	0
Contig895 ref0000659	332323	15
Contig1841 ref0002545	376366	0
Contig2596 ref0000788	287010	0
Contig2902 ref0000763	341986	19
Contig727 ref0001573	359545	20
Contig1517 ref0002733	354271	0
Contig2250 ref0002641	355888	0
Contig546 ref0000693	339844	15
Contig2869 ref0000318	337243	16

Contig2666 ref0000323	392325	14
Contig507 ref0002755	392596	0
Contig172 ref0002300	395782	11
Contig1029 ref0001302	298599	0
Contig2000 ref0001276	313176	0
Contig2691 ref0002233	295153	21
Contig2922 ref0001186	358744	0
Contig2534 ref0002444	353374	0
Contig1249 ref0000496	401312	0
Contig1660 ref0000439	362277	21
Contig1539 ref0002498	343443	0
Contig2058 ref0000294	437319	0
Contig4 ref0000580	422092	8
Contig1870 ref0002741	372961	0
Contig591 ref0002826	300633	0
Contig2545 ref0002529	437305	0
Contig1279 ref0002765	362703	8
Contig529 ref0002393	413702	28
Contig1616 ref0002719	682830	9
Contig1276 ref0002770	423432	13
Contig985 ref0000141	372505	0
Contig588 ref0001553	342936	9
Contig2440 ref0000343	374313	0
Contig658 ref0002585	443559	0
Contig619 ref0002708	354571	0
Contig2719 ref0000316	366459	11
Contig976 ref0002880	374395	0
Contig1243 ref0000486	453330	15
Contig1350 ref0000968	382136	27
Contig2351 ref0002127	416979	7
Contig700 ref0002323	439478	0
Contig246 ref0001787	396098	47
Contig2799 ref0001693	403212	21
Contig585 ref0001561	354050	0
Contig1413 ref0001659	439833	24
Contig2897 ref0000546	471288	26
Contig738 ref0002496	443817	22
Contig293 ref0002728	401264	0
Contig2521 ref0002634	469696	13
Contig1136 ref0000898	438321	7
Contig186 ref0000177	384139	15
Contig1121 ref0000678	580343	0
Contig2438 ref0002299	423026	19
Contig659 ref0002586	409442	66
Contig299 ref0002718	370004	0
Contig1740 ref0000461	493363	28
Contig1795 ref0001820	469206	0
Contig1393 ref0000430	483741	0
Contig462 ref0001400	532057	24
Contig568 ref0000248	409724	18
Contig103 ref0001944	441820	0

Contig621 ref0002190	488670	0
Contig794 ref0000483	486919	25
Contig1565 ref0001593	563644	16
Contig1648 ref0000902	475981	0
Contig1748 ref0001131	531222	0
Contig2847 ref0000775	421986	0
Contig398 ref0000830	492809	28
Contig514 ref0002563	470309	15
Contig1661 ref0000438	513173	24
Contig1303 ref0001633	417459	16
Contig714 ref0002152	570306	27
Contig566 ref0000238	568097	40
Contig2676 ref0000570	532532	38
Contig7 ref0000577	619872	0
Contig866 ref0001313	431790	0
Contig2552 ref0001395	506715	0
Contig2317 ref0001264	478080	0
Contig1721 ref0000986	539176	22
Contig521 ref0002397	525939	0
Contig1676 ref0000214	560633	15
Contig24 ref0001477	538882	25
Contig11 ref0001251	498529	21
Contig324 ref0000222	571538	0
Contig1168 ref0001530	569921	18
Contig2421 ref0000537	534320	0
Contig825 ref0002181	678577	0
Contig533 ref0002208	952946	0
Contig666 ref0001417	489744	0
Contig1673 ref0000219	443943	53
Contig2539 ref0002439	602135	0
Contig1523 ref0002340	640301	29
Contig96 ref0002781	461406	11
Contig1717 ref0002600	691766	0
Contig1106 ref0001098	753018	0
Contig2116 ref0001696	655136	42
Contig579 ref0000023	628683	0
Contig1783 ref0001601	593657	21
Contig1254 ref0000258	684189	0
Contig55 ref0000359	569696	56
Contig2404 ref0002465	628743	0
Contig1488 ref0001277	281122	13
Contig1117 ref0001326	89330	0
Contig1383 ref0000208	687451	21
Contig2779 ref0002080	1289429	0
Contig1992 ref0000292	573517	24
Contig923 ref0001060	578713	36
Contig2593 ref0000793	584220	32
Contig354 ref0002525	557421	0
Contig147 ref0000062	520453	52
Contig10 ref0001252	960239	0
Contig1313 ref0001851	738950	25

Contig1768 ref0001584	713041	0
Contig1988 ref0002410	701036	0
Contig1476 ref0002762	699924	0
Contig559 ref0000459	664744	28
Contig1023 ref0001298	653095	0
Contig1282 ref0002886	582485	43
Contig2888 ref0002788	658626	0
Contig981 ref0000145	564360	72
Contig696 ref0002658	584172	0
Contig1624 ref0000498	611637	53
Contig1190 ref0002534	626166	26
Contig1896 ref0000112	634898	0
Contig1566 ref0001590	749612	0
Contig1278 ref0002764	963295	0
Contig2190 ref0002085	665650	47
Contig1423 ref0002214	678198	40
Contig2029 ref0000816	797656	19
Contig1128 ref0000685	670964	0
Contig1116 ref0001327	642490	47
Contig515 ref0002562	759949	17
Contig968 ref0000161	744377	0
Contig1779 ref0001800	713764	42
Contig153 ref0000863	700964	0
Contig1540 ref0002466	823775	29
Contig372 ref0002919	663938	17
Contig237 ref0000928	682496	26
Contig1724 ref0000980	607841	40
Contig2784 ref0001911	761734	0
Contig2893 ref0000554	795639	23
Contig1851 ref0002386	757475	0
Contig999 ref0002856	580138	0
Contig1767 ref0001583	673859	29
Contig91 ref0002786	654745	0
Contig320 ref0000233	753006	48
Contig23 ref0001472	861454	0
Contig1756 ref0000057	776932	58
Contig1703 ref0000251	946148	28
Contig551 ref0000464	761072	0
Contig1133 ref0000893	566096	14
Contig180 ref0000179	755368	39
Contig725 ref0002675	668376	0
Contig2171 ref0002062	743835	0
Contig1900 ref0000728	749681	44
Contig1480 ref0001197	848836	21
Contig461 ref0001401	800665	33
Contig2143 ref0001903	700063	0
Contig655 ref0002012	762714	0
Contig2006 ref0001282	959912	0
Contig2859 ref0000990	757087	37
Contig1524 ref0002337	781462	0
Contig1253 ref0000265	759290	0

Contig297 ref0002732	828265	0
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