

**Table S3 Distribution of SNPs identified in the RILs population derived from a cross between ZH and ZP.**

Chr <sup>a</sup>	Length (bp)	Number of SNPs	Kbps/SN P	Large-effect SNPs				Subtotal
				Non-synonymous	Stop gain	Stop loss	Splicing	
Chr0 1	56830919	35536	1.6	970	19	2	12	1003
Chr0 2	48571857	15929	3.05	783	17	0	7	807
Chr0 3	45763210	66651	0.69	1729	43	0	19	1791
Chr0 4	52237507	13965	3.74	624	16	1	4	645
Chr0 5	42233137	16637	2.54	874	11	0	12	897
Chr0 6	51414953	48591	1.06	1885	45	9	22	1961
Chr0 7	44629607	28475	1.57	992	22	2	16	1032
Chr0 8	47824665	21293	2.25	1217	19	10	11	1257
Chr0 9	50188514	42734	1.17	1350	32	5	18	1405
Chr1 0	51545509	34527	1.49	1154	27	7	19	1207
Chr1 1	34765068	15775	2.2	541	5	1	7	554
Chr1 2	39335193	23151	1.7	1005	19	4	8	1036
Chr1 3	44921843	29854	1.5	1019	36	5	10	1070
Chr1 4	49029446	21080	2.33	1004	17	1	8	1030
Chr1 5	51755480	101548	0.51	1888	61	15	26	1990
Chr1 6	37882489	50000	0.76	1904	33	5	20	1962
Chr1 7	41393066	71720	0.58	1212	37	3	19	1271
Chr1 8	58014490	79086	0.73	2393	53	4	25	2475
Chr1 9	50716658	80087	0.63	1424	39	4	21	1488
Chr2	47903797	30110	1.59	1135	23	6	9	1173

0								
Total	94695740	826749	1.15	25103	574	84	293	26054
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<sup>a</sup>chromosome