

Table S5 The list of positively selected genes in *A.squarrosuum*.

ID	Annotation	Ka	Ks	Ka/Ks	P-value
TR46185 c0_g1_i2	60S ribosomal protein L3-A	0.256	0.110	2.317	0.003
TR40065 c2_g6_i3	uncharacterized protein LOC104885200	0.147	0.079	1.864	0.012
TR80728 c0_g4_i2	hypothetical protein SOVF_156860, partial	0.028	0.017	1.699	0.824
TR61139 c5_g6_i5	hypothetical protein SOVF_013420	0.043	0.006	7.729	0.030
TR59657 c0_g2_i1	40S ribosomal protein S4-A	0.070	0.029	2.431	0.038
TR68687 c0_g1_i1	N/A	0.058	0.026	2.190	0.061
TR59908 c1_g20_i2	hypothetical protein BVRB_7g173840	0.032	0.010	3.390	0.109
TR17274 c0_g1_i1	alpha-L-fucosidase 2-like (LOC104904928), mRNA	0.027	0.005	4.859	0.124
TR53383 c0_g1_i2	uncharacterized protein LOC104896492	0.017	0.002	7.125	0.140
TR12560 c0_g1_i1	hypothetical protein SOVF_165080 isoform A	0.047	0.024	1.946	0.152
TR39623 c0_g1_i1	hypothetical protein BVRB_9g221690	0.028	0.009	3.000	0.387
TR1373 c1_g5_i11	uncharacterized protein LOC107793551	0.043	0.010	4.253	0.173
TR40243 c0_g3_i2	transposon Tf2-9 polyprotein	0.068	0.031	2.150	0.174
TR86792 c0_g1_i3	ty1-copia retrotransposon protein	0.026	0.009	2.976	0.185
TR70902 c2_g2_i4	hypothetical protein SOVF_061250	0.029	0.010	3.063	0.187
TR84738 c0_g1_i1	hypothetical protein SOVF_121760	0.052	0.024	2.136	0.194
TR1352 c1_g2_i11	random slug protein 5	0.018	0.007	2.565	0.199
TR21678 c0_g2_i2	legumin B-like	0.029	0.011	2.659	0.225
TR61052 c2_g4_i3	uncharacterized protein LOC104888584	0.025	0.004	6.742	0.245
TR43106 c0_g1_i1	hypothetical protein SOVF_194610	0.153	0.106	1.448	0.249
TR46170 c1_g5_i1	uncharacterized protein LOC104906780	0.068	0.030	2.302	0.255
TR40172 c7_g1_i1	uncharacterized protein At3g27210-like	0.018	0.007	2.645	0.267
TR59663 c1_g1_i3	N/A	0.033	0.009	3.740	0.271
TR92396 c4_g3_i3	B3 domain-containing transcription factor VRN1	0.016	0.004	3.736	0.275
TR26155 c0_g1_i1	uncharacterized protein LOC104908184	0.005	0.001	4.084	0.276
TR2613 c0_g2_i1	ATP synthase subunit O, mitochondrial	0.015	0.012	1.175	0.321
TR22632 c0_g1_i2	fimbrin-1	0.028	0.001	28.354	0.341
TR78922 c0_g1_i1	hypothetical protein SOVF_169750	0.038	0.028	1.384	0.355
TR6907 c0_g1_i3	monosaccharide-sensing protein 2	0.005	0.004	1.303	0.357
TR14099 c1_g1_i1	uncharacterized protein LOC104890231	0.004	0.001	6.091	0.368
TR55742 c0_g1_i1	uncharacterized protein	0.009	0.004	2.150	0.377
TR73992 c0_g1_i2	hypothetical protein SOVF_011270 isoform A	0.015	0.008	1.997	0.372
TR40212 c1_g3_i2	uncharacterized protein LOC104889325	0.014	0.005	2.803	0.372
TR40173 c2_g1_i4	hypothetical protein SOVF_203960	0.028	0.011	2.537	0.393
TR27244 c0_g1_i1	hypothetical protein SOVF_045670	0.016	0.010	1.651	0.446
TR46116 c0_g1_i1	UPF0481 protein At3g47200-like	0.036	0.012	2.940	0.402
TR170 c0_g1_i1	nucleolin 2	0.019	0.012	1.652	0.403
TR39277 c0_g1_i1	uncharacterized protein At5g41620 (LOC104899830)	0.012	0.004	3.394	0.406

TR59889 c1_g2_i4	uncharacterized protein LOC104899035	0.024	0.008	3.033	0.436
TR59207 c0_g1_i1	hypothetical protein SOVF_169430	0.017	0.017	1.038	0.434
TR68784 c0_g1_i1	uncharacterized protein LOC104902117	0.022	0.013	1.677	0.451
TR49719 c1_g2_i2	ubiquitin-40s ribosomal protein s31 fusion protein	0.026	0.015	1.750	0.690
TR59848 c1_g2_i2	plasma-membrane proton-efflux P-type ATPase	0.060	0.038	1.551	0.483
TR70587 c0_g3_i2	uncharacterized protein LOC100846826	0.043	0.023	1.878	0.499
TR55706 c0_g1_i1	Bax inhibitor 1	0.131	0.092	1.418	0.509
TR10781 c0_g1_i1	DeSI-like protein At4g17486	0.032	0.017	1.838	0.521
TR59711 c1_g1_i2	acetyl-CoA-benzylalcohol acetyltransferase-like	0.025	0.017	1.412	0.528
TR65664 c0_g1_i3	3-oxoacyl-[acyl-carrier-protein] synthase, mitochondrial	0.032	0.021	1.516	0.536
TR32359 c0_g1_i1	hypothetical protein SOVF_035260	0.008	0.007	1.142	0.540
TR6428 c1_g1_i3	aarF domain-containing protein kinase At1g71810	0.044	0.032	1.398	0.541
TR70632 c0_g1_i2	hypothetical protein SOVF_139050	0.008	0.007	1.133	0.544
TR65639 c0_g1_i3	uncharacterized WD repeat-containing protein	0.005	0.004	1.407	0.546
TR21995 c0_g2_i1	hypothetical protein SOVF_149870	0.034	0.021	1.573	0.553
TR17294 c2_g2_i1	hypothetical protein SOVF_146080	0.025	0.017	1.415	0.550
TR33285 c1_g1_i1	GTP-binding protein SAR1A	0.014	0.007	2.047	0.557
TR61010 c4_g4_i1	dehydrodolichyl diphosphate synthase 2	0.016	0.009	1.760	0.561
TR1378 c0_g1_i4	uncharacterized LOC104889071	0.039	0.018	2.142	0.562
TR86494 c0_g1_i1	hypothetical protein SOVF_091600	0.008	0.004	2.157	0.566
TR6330 c1_g1_i2	uncharacterized abhydrolase domain-containing protein	0.120	0.094	1.277	0.576
TR73766 c0_g1_i1	hypothetical protein SOVF_108440	0.017	0.010	1.590	0.577
TR6892 c0_g2_i7	N/A	0.019	0.008	2.469	0.589
TR15875 c0_g1_i1	hypothetical protein SOVF_068240	0.009	0.006	1.526	0.590
TR26743 c0_g1_i1	hypothetical protein SOVF_091200	0.017	0.009	1.820	0.591
TR53444 c0_g1_i1	protein TIC 62, chloroplastic	0.004	0.002	1.673	0.605
TR40190 c7_g5_i1	calcium-dependent protein kinase 26-like	0.026	0.008	3.130	0.621
TR194 c0_g1_i4	hypothetical protein SOVF_005770	0.023	0.010	2.226	0.636
TR49590 c0_g1_i5	glutamate receptor 3.4-like	0.037	0.021	1.741	0.645
TR73198 c0_g1_i1	uncharacterized protein LOC104889878	0.027	0.027	1.011	0.653
TR86736 c2_g11_i1	uncharacterized LOC104893858	0.021	0.006	3.532	0.658
TR6458 c2_g18_i7	uncharacterized LOC104891260	0.080	0.061	1.307	0.671
TR49677 c0_g1_i1	hypothetical protein L202_02099	0.010	0.009	1.066	0.683
TR6292 c0_g1_i3	hypothetical protein SOVF_038690	0.002	0.001	1.038	0.684
TR55151 c0_g1_i1	hypothetical protein SOVF_183810	0.003	0.003	1.084	0.684
TR32248 c0_g1_i1	hypothetical protein BVRB_6g154110	0.004	0.004	1.030	0.689
TR59901 c1_g1_i3	putative disease resistance protein RGA4	0.005	0.005	1.032	0.690
TR26062 c0_g2_i1	indole-3-acetate <i>O</i> -methyltransferase 1-like	0.004	0.003	1.072	0.695
TR934 c0_g1_i1	hypothetical protein SOVF_094390	0.003	0.003	1.056	0.697
TR86625 c0_g1_i1	probable sarcosine oxidase	0.003	0.003	1.058	0.697

TR59277 c0_g1_i1	uncharacterized protein LOC104890625	0.001	0.001	1.063	0.698
TR16678 c0_g1_i1	hypothetical protein SOVF_052000	0.004	0.004	1.072	0.701
TR27381 c0_g1_i1	hypothetical protein SOVF_173700	0.035	0.023	1.506	0.700
TR86756 c1_g3_i9	uncharacterized protein LOC104889107	0.004	0.004	1.086	0.705
TR39350 c0_g4_i1	vegetative cell wall protein gp1 isoform X2	0.004	0.003	1.087	0.705
TR39904 c0_g1_i1	hypothetical protein SOVF_021040	0.004	0.003	1.107	0.711
TR6866 c1_g2_i7	serine/threonine-protein kinase PEPKR2	0.165	0.143	1.155	0.712
TR6454 c0_g2_i5	uncharacterized LOC104901661	0.009	0.008	1.129	0.712
TR40119 c4_g6_i11	disease resistance protein RGA2	0.012	0.008	1.518	0.794
TR59700 c0_g1_i2	hypothetical protein SOVF_040860	0.003	0.002	1.790	0.726
TR46175 c1_g1_i13	retrovirus-related Pol polyprotein from transposon TNT 1-94 isoform X1	0.040	0.024	1.664	0.727
TR55447 c0_g1_i1	N/A	0.016	0.012	1.268	0.748
TR80792 c3_g1_i2	flavonol synthase/flavanone 3-hydroxylase-like	0.008	0.004	1.845	0.847
TR1315 c2_g4_i3	hypothetical protein BVRB_5g127080	0.011	0.008	1.382	0.770
TR40013 c0_g1_i7	hypothetical protein SOVF_043480	0.006	0.004	1.383	0.773
TR86103 c0_g1_i2	hypothetical protein SOVF_053000	0.026	0.018	1.442	0.776
TR25 c0_g1_i1	hypothetical protein SOVF_075430	0.004	0.003	1.421	0.781
TR39755 c0_g1_i1	hypothetical protein SOVF_164170	0.005	0.003	1.463	0.788
TR5312 c0_g2_i1	hypothetical protein SOVF_163710	0.009	0.006	1.506	0.795
TR86488 c1_g1_i2	hypothetical protein SOVF_020650	0.006	0.005	1.188	0.802
TR59842 c2_g1_i12	uncharacterized protein LOC104888073	0.067	0.054	1.225	0.804
TR65835 c0_g1_i1	hypothetical protein SOVF_181820	0.039	0.033	1.200	0.806
TR86637 c0_g3_i2	hypothetical protein TSUD_409990	0.091	0.085	1.068	1.000
TR74739 c0_g2_i1	hypothetical protein SOVF_128990	0.005	0.003	1.615	0.815
TR59715 c2_g1_i9	disease resistance protein RGA3	0.055	0.045	1.239	0.807
TR92382 c2_g1_i1	transient receptor potential cation channel subfamily A member 1 homolog	0.059	0.027	2.184	0.286
TR6396 c0_g2_i1	hypothetical protein SOVF_004280	0.011	0.010	1.187	0.823
TR45359 c0_g2_i1	probable caffeoyl-CoA <i>O</i> -methyltransferase At4g26220	0.016	0.009	1.828	0.846
TR71288 c0_g3_i5	riboflavin biosynthesis protein PYRD, chloroplastic	0.011	0.006	1.841	0.847
TR55711 c0_g1_i1	uncharacterized protein LOC104888227	0.078	0.071	1.096	0.861
TR18911 c1_g1_i1	uncharacterized protein LOC104892702	0.007	0.007	1.073	0.851
TR80015 c0_g1_i1	Histone H3.2, partial	0.014	0.010	1.426	0.886
TR61102 c3_g2_i3	transposon Tf2-1 polyprotein isoform X1	0.021	0.014	1.488	0.794
TR70620 c0_g1_i3	disulfide-isomerase SCO2	0.022	0.019	1.134	0.916
TR59918 c0_g4_i2	uncharacterized protein LOC104898997	0.010	0.010	1.091	0.909
TR33848 c0_g1_i2	uncharacterized protein LOC104890055	0.001	0.001	1.308	0.752
TR11726 c0_g1_i5	protein STICHEL-like 2 isoform X1	0.005	0.004	1.084	0.974
TR17388 c0_g1_i1	putative disease resistance protein RGA1	0.034	0.033	1.031	0.988
TR92248 c0_g1_i3	<i>Beta vulgaris</i> subsp. <i>vulgaris</i> actin-related protein 3	0.048	0.047	1.040	0.993

(LOC104897225), mRNA

TR59905 c4_g13_i1	hypothetical protein SOVF_115330	0.061	0.053	1.136	0.995
TR80438 c0_g3_i2	hypothetical protein VITISV_005044	0.060	0.050	1.196	0.996
TR92388 c0_g1_i2	uncharacterized protein LOC104899556	0.073	0.069	1.055	0.996
TR58525 c0_g3_i1	hypothetical protein SOVF_117770, partial	0.036	0.036	1.015	0.997
TR78436 c0_g2_i1	mitotic-spindle organizing protein 1B-like	0.015	0.012	1.302	0.757
TR81437 c0_g1_i1	photosystem II 5 kDa protein, chloroplastic	0.103	0.099	1.036	1.000
TR6900 c3_g1_i1	protein TRANSPARENT TESTA 12-like	0.249	0.042	5.872	0.000
TR86805 c0_g3_i3	uncharacterized protein LOC104899421	0.017	0.012	1.464	0.785
TR85753 c0_g2_i1	NADH dehydrogenase subunit 1 (mitochondrion)	0.047	0.022	2.112	0.633
TR1282 c3_g1_i2	hypothetical protein SOVF_079340	0.028	0.022	1.252	0.965
