

Table 2 The ka, ks value and divergence time of syntenic gene pairs

Syntenic gene pairs	Type of duplication	Method	Ka	Ks	Ka/Ks	p-Value	Time of divergence (MYA)
Si3G200300.1-Si5G359400.1	Segmental	NG	0.179423	0.29956	0.598954	0.000119997	23.04307692
Si3G217700.1-Si5G377700.1	Segmental	NG	0.171767	0.431489	0.39808	1.80E-14	33.19146154
Si5G365900.1-Si7G330200.1	Segmental	NG	0.234742	0.508034	0.462059	1.30E-11	39.07953846
Si5G365900.1-Si8G018100.1	Segmental	NG	0.234515	0.556088	0.421723	3.18E-14	42.776
Si5G377700.1-Si9G453900.1	Segmental	NG	0.215239	0.445914	0.482691	7.11E-10	34.30107692
Si7G330200.1-Si8G018100.1	Segmental	NG	0.0310275	0.104207	0.297749	8.96E-08	8.015923077
Si8G018100.1-Si9G437000.1	Segmental	NG	0.283352	0.497975	0.569009	2.96E-07	38.30576923
Si1G320600.1-Si1G320700.1	Tandem	NG	0.0691273	0.187248	0.369176	1.06E-07	14.40369231
Si1G320700.1-Si1G320800.1	Tandem	NG	0.273141	0.579174	0.471605	7.44E-11	44.55184615
Si2G187300.1-Si2G187400.1	Tandem	NG	0.0661498	0.246946	0.267871	2.18E-16	18.99584615
Si4G236400.1-Si4G236500.1	Tandem	NG	0.328053	0.579012	0.566574	1.29E-07	44.53938462
Si5G377700.1-Si5G377800.1	Tandem	NG	0.127211	0.266258	0.477773	1.01E-07	20.48138462
Si5G382800.1-Si5G382900.1	Tandem	NG	0.359878	0.615098	0.585074	6.39E-07	47.31523077
Si8G210600.1-Si8G210700.1	Tandem	NG	0.171531	0.626826	0.27365	4.47E-29	48.21738462
Si8G210800.1-Si8G210900.1	Tandem	NG	0.174964	0.692463	0.252669	1.31E-33	53.26638462
Si8G210900.1-Si8G211000.1	Tandem	NG	0.031637	0.0642182	0.492648	0.00419618	4.939861538
Si8G211500.1-Si8G211600.1	Tandem	NG	1.70101	2.64443	0.643242	0.0274934	203.4176923
Si8G211600.1-Si8G211700.1	Tandem	NG	0.145691	0.468046	0.311274	1.58E-10	36.00353846
Si8G212000.1-Si8G212100.1	Tandem	NG	0.163158	0.732549	0.222726	1.07E-38	56.34992308
Si8G212400.1-Si8G212500.1	Tandem	NG	0.100484	0.436966	0.229959	8.79E-30	33.61276923
Si8G212800.1-Si8G212900.1	Tandem	NG	0.111514	0.309655	0.360124	8.84E-13	23.81961538