

Table S3 Ka, Ks, and Ka/Ks values of duplicated *VuHSP60* genes.

Paralogs	Ks	Ka	Ka/Ks	Duplication type	Type of mutation
<i>VuHSP60-1_VuHSP60-2</i>	2.0420	1.2910	0.632239	Segmental	Purifying
<i>VuHSP60-1_VuHSP60-3</i>	2.4719	1.2073	0.488416	Segmental	Purifying
<i>VuHSP60-1_VuHSP60-4</i>	1.5506	1.1372	0.733367	Segmental	Purifying
<i>VuHSP60-1_VuHSP60-5.1</i>	2.0158	0.5646	0.28008	Segmental	Purifying
<i>VuHSP60-1_VuHSP60-6</i>	1.9655	1.2755	0.648957	Segmental	Purifying
<i>VuHSP60-1_VuHSP60-7</i>	1.8774	1.3277	0.707216	Segmental	Purifying
<i>VuHSP60-1_VuHSP60-8</i>	2.2567	1.1249	0.49847	Segmental	Purifying
<i>VuHSP60-1_VuHSP60-9.1</i>	1.6394	0.2267	0.138251	Segmental	Purifying
<i>VuHSP60-1_VuHSP60-10</i>	2.1630	0.5306	0.245299	Segmental	Purifying
<i>VuHSP60-1_VuHSP60-12</i>	1.7678	0.5391	0.304971	Segmental	Purifying
<i>VuHSP60-1_VuHSP60-13</i>	1.9219	1.0400	0.541135	Segmental	Purifying
<i>VuHSP60-1_VuHSP60-14.1</i>	2.9231	0.5705	0.195182	Segmental	Purifying
<i>VuHSP60-1_VuHSP60-16</i>	2.5874	1.1124	0.42994	Segmental	Purifying
<i>VuHSP60-1_VuHSP60-17</i>	2.0056	0.4807	0.239665	Segmental	Purifying
<i>VuHSP60-2_VuHSP60-3</i>	1.6004	0.6932	0.433129	Segmental	Purifying
<i>VuHSP60-2_VuHSP60-4</i>	2.8707	0.7763	0.27042	Segmental	Purifying
<i>VuHSP60-2_VuHSP60-5.1</i>	2.2034	1.3698	0.621665	Segmental	Purifying
<i>VuHSP60-2_VuHSP60-7</i>	1.6918	0.8791	0.519614	Segmental	Purifying
<i>VuHSP60-2_VuHSP60-9.1</i>	2.8661	1.1982	0.418067	Segmental	Purifying
<i>VuHSP60-2_VuHSP60-10</i>	2.3125	1.1980	0.518058	Segmental	Purifying
<i>VuHSP60-2_VuHSP60-12</i>	2.0030	1.2119	0.605048	Segmental	Purifying
<i>VuHSP60-2_VuHSP60-13</i>	1.4369	0.7503	0.52213	Segmental	Purifying
<i>VuHSP60-2_VuHSP60-17</i>	1.8947	1.3552	0.715248	Segmental	Purifying
<i>VuHSP60-2_VuHSP60-18</i>	1.6036	1.3278	0.827969	Dispersed	Purifying
<i>VuHSP60-3_VuHSP60-4</i>	2.9462	0.7461	0.253246	Segmental	Purifying
<i>VuHSP60-3_VuHSP60-10</i>	2.6718	1.2614	0.472093	Segmental	Purifying
<i>VuHSP60-3_VuHSP60-13</i>	1.9319	0.7930	0.410487	Segmental	Purifying
<i>VuHSP60-3_VuHSP60-17</i>	2.2751	1.1515	0.506122	Segmental	Purifying
<i>VuHSP60-3_VuHSP60-18</i>	1.3397	1.2572	0.938405	Dispersed	Purifying
<i>VuHSP60-4_VuHSP60-5.1</i>	2.0664	1.1143	0.53925	Segmental	Purifying
<i>VuHSP60-4_VuHSP60-7</i>	2.6586	0.8774	0.330017	Segmental	Purifying
<i>VuHSP60-4_VuHSP60-9.1</i>	2.0300	1.1303	0.556825	Segmental	Purifying
<i>VuHSP60-4_VuHSP60-10</i>	1.4196	1.2168	0.857106	Segmental	Purifying
<i>VuHSP60-4_VuHSP60-12</i>	1.5151	1.2299	0.811768	Segmental	Purifying
<i>VuHSP60-4_VuHSP60-13</i>	1.9599	0.6726	0.343182	Segmental	Purifying
<i>VuHSP60-4_VuHSP60-14.1</i>	1.9586	1.1883	0.606719	Segmental	Purifying
<i>VuHSP60-4_VuHSP60-17</i>	1.6090	1.2018	0.746932	Segmental	Purifying
<i>VuHSP60-5.1_VuHSP60-6</i>	1.7121	1.2627	0.737516	Segmental	Purifying
<i>VuHSP60-5.1_VuHSP60-8</i>	1.7653	1.1252	0.63738	Segmental	Purifying
<i>VuHSP60-5.1_VuHSP60-10</i>	2.0689	0.5961	0.288141	Segmental	Purifying
<i>VuHSP60-5.1_VuHSP60-11.1</i>	1.9840	1.2247	0.617273	Segmental	Purifying
<i>VuHSP60-5.1_VuHSP60-12</i>	2.3380	0.5899	0.252322	Segmental	Purifying

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<i>VuHSP60-5.1_VuHSP60-14.1</i>	2.4059	0.6727	0.279595	Segmental	Purifying
<i>VuHSP60-5.1_VuHSP60-15</i>	2.3805	1.1128	0.467452	Segmental	Purifying
<i>VuHSP60-5.1_VuHSP60-16</i>	1.8979	1.1211	0.590739	Segmental	Purifying
<i>VuHSP60-6_VuHSP60-8</i>	1.5702	0.8357	0.532254	Segmental	Purifying
<i>VuHSP60-6_VuHSP60-9.1</i>	2.6740	1.2023	0.449626	Segmental	Purifying
<i>VuHSP60-6_VuHSP60-10</i>	1.8126	1.1109	0.612901	Segmental	Purifying
<i>VuHSP60-6_VuHSP60-11.1</i>	0.5541	0.0557	0.100508	Segmental	Purifying
<i>VuHSP60-6_VuHSP60-12</i>	1.6425	1.1230	0.683675	Segmental	Purifying
<i>VuHSP60-6_VuHSP60-13</i>	2.7713	0.8401	0.303147	Segmental	Purifying
<i>VuHSP60-6_VuHSP60-14.1</i>	2.8200	1.1582	0.410724	Segmental	Purifying
<i>VuHSP60-6_VuHSP60-15</i>	1.5853	0.8463	0.533853	Segmental	Purifying
<i>VuHSP60-6_VuHSP60-16</i>	1.7101	0.8496	0.496815	Segmental	Purifying
<i>VuHSP60-6_VuHSP60-17</i>	2.7668	1.1408	0.412312	Segmental	Purifying
<i>VuHSP60-7_VuHSP60-9.1</i>	1.6817	1.3464	0.800642	Segmental	Purifying
<i>VuHSP60-7_VuHSP60-10</i>	2.2264	1.2963	0.582236	Segmental	Purifying
<i>VuHSP60-7_VuHSP60-11.1</i>	2.6656	0.8685	0.325817	Segmental	Purifying
<i>VuHSP60-7_VuHSP60-13</i>	2.1337	0.9292	0.435493	Segmental	Purifying
<i>VuHSP60-7_VuHSP60-14.1</i>	2.4702	1.2719	0.514912	Segmental	Purifying
<i>VuHSP60-7_VuHSP60-17</i>	1.7630	1.3609	0.771917	Segmental	Purifying
<i>VuHSP60-8_VuHSP60-9.1</i>	2.6735	1.2130	0.453714	Segmental	Purifying
<i>VuHSP60-8_VuHSP60-10</i>	2.1888	1.1534	0.526948	Segmental	Purifying
<i>VuHSP60-8_VuHSP60-11.1</i>	2.1672	0.8534	0.393771	Segmental	Purifying
<i>VuHSP60-8_VuHSP60-15</i>	0.1010	0.0094	0.092602	Segmental	Purifying
<i>VuHSP60-8_VuHSP60-16</i>	2.6744	0.0067	0.002495	Segmental	Purifying
<i>VuHSP60-9.1_VuHSP60-11.1</i>	1.7364	1.2378	0.712867	Segmental	Purifying
<i>VuHSP60-9.1_VuHSP60-12</i>	2.6043	0.5870	0.225397	Segmental	Purifying
<i>VuHSP60-9.1_VuHSP60-13</i>	1.9277	1.0860	0.563377	Segmental	Purifying
<i>VuHSP60-9.1_VuHSP60-15</i>	2.1990	1.2141	0.552123	Segmental	Purifying
<i>VuHSP60-9.1_VuHSP60-16</i>	2.1683	1.2030	0.55479	Segmental	Purifying
<i>VuHSP60-10_VuHSP60-11.1</i>	1.6111	1.1522	0.715178	Segmental	Purifying
<i>VuHSP60-10_VuHSP60-12</i>	0.8867	0.0109	0.012242	Segmental	Purifying
<i>VuHSP60-10_VuHSP60-13</i>	1.9679	1.1852	0.602257	Segmental	Purifying
<i>VuHSP60-10_VuHSP60-15</i>	2.4513	1.1451	0.467158	Segmental	Purifying
<i>VuHSP60-10_VuHSP60-16</i>	2.7045	1.1707	0.432868	Segmental	Purifying
<i>VuHSP60-11.1_VuHSP60-12</i>	1.6610	1.1507	0.692757	Segmental	Purifying
<i>VuHSP60-11.1_VuHSP60-13</i>	1.7646	0.8451	0.478914	Segmental	Purifying
<i>VuHSP60-11.1_VuHSP60-14.1</i>	2.0851	1.1950	0.573112	Segmental	Purifying
<i>VuHSP60-11.1_VuHSP60-15</i>	2.0928	0.8628	0.412289	Segmental	Purifying
<i>VuHSP60-11.1_VuHSP60-16</i>	2.0896	0.8669	0.414854	Segmental	Purifying
<i>VuHSP60-11.1_VuHSP60-17</i>	2.1138	1.1359	0.537358	Segmental	Purifying
<i>VuHSP60-12_VuHSP60-13</i>	2.2528	1.2056	0.535159	Segmental	Purifying
<i>VuHSP60-12_VuHSP60-14.1</i>	2.3291	0.1754	0.075317	Segmental	Purifying

Paralogs	Ks	Ka	Ka/Ks	Duplication type	Type of mutation
<i>VuHSP60-12_ VuHSP60-15</i>	2.2510	1.1772	0.522943	Segmental	Purifying
<i>VuHSP60-12_ VuHSP60-16</i>	2.4193	1.1983	0.495317	Segmental	Purifying
<i>VuHSP60-12_ VuHSP60-17</i>	2.6415	0.4934	0.186808	Segmental	Purifying
<i>VuHSP60-13_ VuHSP60-15</i>	2.5673	0.6925	0.269757	Segmental	Purifying
<i>VuHSP60-13_ VuHSP60-16</i>	2.5715	0.6954	0.270441	Segmental	Purifying
<i>VuHSP60-13_ VuHSP60-17</i>	1.8841	1.2537	0.665426	Segmental	Purifying
<i>VuHSP60-15_ VuHSP60-16</i>	0.0560	0.0134	0.2392	Segmental	Purifying
<i>VuHSP60-15_ VuHSP60-17</i>	2.8277	1.2343	0.436512	Segmental	Purifying
<i>VuHSP60-16_ VuHSP60-17</i>	2.6663	1.2268	0.460107	Segmental	Purifying

Note: Paralogs are pairs of duplicated *VuHSP60* genes. Utilizing TBtools, the synonymous (Ks) and non-synonymous (Ka) substitution rates were computed.