

Supplemental Table S2. Physicochemical properties of 33 *MhLHC* family members.

Gene accession	Gene name	pI	MW (Da)	Amino acids	Positive residues	Negative residues	Aliphatic index	Instability index	Grand average hydrophaticity	Chr.position	Subcellular localization
MD02G1095600	<i>MhLHCA1</i>	5.44	29436.96	267	23	28	82.96	39.33	-0.015	Chr02:7545569:7547316	Chloroplast.
MD06G1195000	<i>MhLHCA2</i>	5.84	27891.87	253	21	24	85.57	43.46	-0.106	Chr06:32950773:32952478	Chloroplast.
MD07G1175900	<i>MhLHCA3</i>	5.85	26724.69	247	22	25	83.36	45.99	-0.107	Chr07:25530799:25532598	Chloroplast.
MD08G1101900	<i>MhLHCA4</i>	9.46	15474.15	138	15	9	98.99	47.65	-0.016	Chr08:8552990:8554014	Chloroplast.
MD09G1134800	<i>MhLHCA5</i>	7.84	29944.26	277	23	22	84.58	35.55	-0.057	Chr09:10357399:10359051	Chloroplast.
MD13G1119100	<i>MhLHCA6</i>	9.26	36522.64	336	32	26	74.14	43.06	-0.193	Chr13:8734032:8736151	Chloroplast.
MD14G1202000	<i>MhLHCA7</i>	6.43	27897.88	253	22	23	84.82	42.70	-0.087	Chr14:29086734:29088171	Chloroplast.
MD15G1083400	<i>MhLHCA8</i>	8.65	28119.51	260	23	21	94.54	24.51	0.075	Chr15:5705169:5707176	Chloroplast.
MD16G1119500	<i>MhLHCA9</i>	6.10	30036.10	277	24	26	75.45	35.56	-0.074	Chr16:8572390:8574105	Chloroplast.
MD17G1123800	<i>MhLHCA10</i>	7.83	29909.22	277	23	22	84.58	35.99	-0.045	Chr17:10760912:10762734	Chloroplast.
MD00G1103100	<i>MhLHCB1</i>	6.00	31014.58	290	28	30	89.62	30.76	-0.007	Chr00:21773062:21775104	Chloroplast.
MD00G1161400	<i>MhLHCB2</i>	6.00	31014.58	290	28	30	89.62	30.76	-0.007	Chr00:35891516:35894002	Chloroplast.
MD01G1132800	<i>MhLHCB3</i>	5.15	31204.69	283	27	34	84.81	44.04	-0.112	Chr01:24270803:24273012	Chloroplast.
MD03G1218900	<i>MhLHCB4</i>	5.10	28577.63	264	20	26	85.34	19.21	0.010	Chr03:30339429:30341036	Chloroplast.
MD04G1151300	<i>MhLHCB5</i>	5.46	31128.37	286	26	31	83.71	34.01	-0.125	Chr04:23988140:23989799	Chloroplast.
MD05G1000500	<i>MhLHCB6</i>	6.00	30969.60	290	27	29	90.66	30.40	0.015	Chr05:105876:109341	Chloroplast.
MD05G1289200	<i>MhLHCB7</i>	5.29	28202.08	265	21	26	78.11	22.45	-0.033	Chr05:42171376:42172173	Chloroplast.
MD05G1289300	<i>MhLHCB8</i>	5.97	31176.65	291	23	26	78.18	23.30	0.009	Chr05:42174118:42175040	Chloroplast.
MD06G1001700	<i>MhLHCB9</i>	8.87	38200.48	350	33	28	96.43	42.11	0.070	Chr06:212350:217034	Chloroplast.
MD07G1215200	<i>MhLHCB10</i>	6.70	6272.21	56	5	5	81.96	38.80	0.086	Chr07:29241996:29242166	Chloroplast.
MD07G1220500	<i>MhLHCB11</i>	4.54	21163.37	187	18	30	99.57	53.05	-0.095	Chr07:29781292:29783802	Chloroplast.
MD08G1220900	<i>MhLHCB12</i>	6.16	27541.49	259	22	23	81.85	28.92	0.064	Chr08:28364908:28366375	Chloroplast.
MD09G1292900	<i>MhLHCB13</i>	5.59	35115.81	329	25	30	78.94	30.41	-0.129	Chr09:37566547:37567556	Chloroplast.
MD09G1122500	<i>MhLHCB14</i>	6.97	33739.57	312	27	27	79.17	44.43	-0.132	Chr09:9443330:9444730	Chloroplast.
MD10G1265300	<i>MhLHCB15</i>	5.29	28073.95	264	21	26	78.41	21.88	-0.020	Chr10:35874032:35874907	Chloroplast.
MD10G1265400	<i>MhLHCB16</i>	5.29	28175.05	265	21	26	78.11	21.84	-0.023	Chr10:35876497:35877337	Chloroplast.
MD11G1236900	<i>MhLHCB17</i>	5.10	28603.61	264	20	26	86.44	22.08	0.015	Chr11:34455547:34457139	Chloroplast.
MD12G1165400	<i>MhLHCB18</i>	5.48	31792.06	290	27	32	81.52	37.46	-0.198	Chr12:24641675:24644144	Chloroplast.
MD15G1411600	<i>MhLHCB19</i>	7.79	27279.28	257	22	21	84.44	25.62	0.068	Chr15:51099008:51100141	Chloroplast.
MD17G1137800	<i>MhLHCB20</i>	5.12	25026.40	233	18	24	79.18	25.35	-0.078	Chr17:12344937:12345638	Chloroplast.
MD17G1281900	<i>MhLHCB21</i>	7.06	35577.51	332	28	28	80.57	23.53	-0.109	Chr17:34100469:34101524	Chloroplast.
MD17G1109600	<i>MhLHCB22</i>	4.93	26356.71	242	16	22	80.25	25.18	-0.099	Chr17:9422610:9423427	Chloroplast.
MD17G1113400	<i>MhLHCB23</i>	5.69	28525.55	265	23	26	81.40	31.55	-0.037	Chr17:9725278:9726436	Chloroplast.