

Table S2. *Hsp20* genes identified from *Euphorbiaceae* and their physicochemical properties information

Gene Name	Protein Length	Molecular Weight (Da)	Isoelectric Point (pI)	Grand Average of Hydropathicity (GRAVY)	Subcellular Localization
<i>Ricinus communis</i>					
RcHsp20-1	158	18251.68	5.81	-0.734	cyto
RcHsp20-2	160	18421.81	6.32	-0.713	cyto
RcHsp20-3	449	49646.6	5.62	-0.701	nucl
RcHsp20-4	150	17230.11	5.96	-0.888	chlo
RcHsp20-5	221	25024.04	5.12	-0.893	cyto
RcHsp20-6	203	23221.25	5.52	-0.756	chlo
RcHsp20-8	134	15364.58	5.81	-0.705	cyto
RcHsp20-7	253	28287.11	8.96	-0.514	nucl
RcHsp20-9	192	22163.53	5.85	-0.474	vacu
RcHsp20-10	192	22185.53	6.21	-0.479	vacu
RcHsp20-11	166	18980.4	5.74	-0.796	cyto
RcHsp20-12	162	18420.91	6.34	-0.683	cyto
RcHsp20-13	190	21726.15	6.45	-0.408	chlo
RcHsp20-14	155	17275.74	6.91	-0.525	cyto
RcHsp20-15	231	26132.52	8.48	-0.77	mito
RcHsp20-16	236	26740.18	7.79	-0.755	mito
RcHsp20-17	156	17821.21	7.94	-0.773	cyto
RcHsp20-18	156	17789.12	5.85	-0.728	cyto
RcHsp20-19	264	29164.74	9.21	-0.882	golg
RcHsp20-20	262	29105.96	9.62	-0.777	golg
RcHsp20-21	139	15686.94	6.77	-0.678	cyto
RcHsp20-22	184	20947.21	9.63	-0.571	cyto
RcHsp20-23	409	46008.44	7.64	-0.428	cyto
<i>Jatropha curcas</i>					
JcHsp20-1	191	21963.46	7.96	-0.435	mito
JcHsp20-2	158	18087.46	6.85	-0.689	cyto
JcHsp20-3	187	21230.56	9.54	-0.416	cyto
JcHsp20-4	311	34718.15	9.72	-0.85	chlo
JcHsp20-5	242	27144.76	8.45	-0.823	golg
JcHsp20-6	211	23891.88	5.62	-0.642	mito
JcHsp20-7	140	15854.06	6.77	-0.633	cyto
JcHsp20-8	196	22588.25	5.06	-0.566	nucl
JcHsp20-9	159	18096.8	5.96	-0.592	cyto
JcHsp20-10	647	71541.8	5.3	-0.841	nucl
JcHsp20-11	151	17364.69	6.19	-0.721	cyto
JcHsp20-12	441	49374.33	5.4	-0.694	cyto

JcHsp20-13	143	15405.01	8.93	-0.11	chlo
JcHsp20-14	130	15020.21	5.5	-0.649	cyto
JcHsp20-15	157	18020.37	5.98	-0.617	cyto
JcHsp20-16	162	18427.99	6.77	-0.593	cyto
JcHsp20-17	156	17843.27	5.71	-0.653	cyto
JcHsp20-18	153	17235.26	5.17	-0.652	cyto
JcHsp20-19	234	26397.91	8.78	-0.517	extr
JcHsp20-20	141	15926.13	6.85	-0.482	pero
JcHsp20-21	155	17301.83	6.63	-0.482	cyto
JcHsp20-22	219	24416.7	5.47	-0.522	mito
JcHsp20-23	217	25120.39	8.75	-0.747	chlo
JcHsp20-24	209	23661.79	9.84	-0.709	mito
<i>Manihot esculenta</i>					
MeHsp20-1	234	26166.78	7.71	-0.589	chlo
MeHsp20-2	112	12439.09	6.42	-0.568	pero
MeHsp20-3	245	27394.07	9.48	-0.562	nucl
MeHsp20-4	157	17990.3	5.51	-0.597	cyto
MeHsp20-5	224	25132.92	9.28	-0.292	chlo
MeHsp20-6	157	17883.23	5.98	-0.646	cyto
MeHsp20-7	157	17961.4	5.54	-0.626	cyto
MeHsp20-8	157	18115.49	5.72	-0.684	cyto
MeHsp20-9	157	17977.26	5.36	-0.631	cyto
MeHsp20-10	140	15875.62	5.94	-0.83	cyto
MeHsp20-11	118	13400.6	9.07	-0.625	cyto
MeHsp20-12	227	25993.44	8.39	-0.83	chlo
MeHsp20-13	160	18187.59	5.84	-0.649	cyto
MeHsp20-14	160	18222.63	6.2	-0.661	chlo
MeHsp20-15	150	16951.04	5.49	-0.666	cyto
MeHsp20-16	228	25659.01	6.98	-0.742	golg
MeHsp20-17	208	23754.79	6.03	-0.698	mito
MeHsp20-18	191	21780.19	6.93	-0.461	chlo
MeHsp20-19	343	38040.83	6.54	-0.979	cyto
MeHsp20-20	162	18523.87	6.34	-0.719	cyto
MeHsp20-21	137	15576.66	5.24	-0.642	cyto
MeHsp20-22	80	9944.53	8.81	-0.975	cyto
MeHsp20-23	157	18257.8	7.77	-0.672	cyto
MeHsp20-24	162	18475.58	9.41	-0.271	cyto
MeHsp20-25	181	20686.81	9.57	-0.556	golg
MeHsp20-26	410	46028.29	6.51	-0.385	nucl
MeHsp20-27	150	16983.99	5.77	-0.754	cyto
MeHsp20-28	158	17971.31	6.18	-0.68	cyto
MeHsp20-29	165	18761.27	7.91	-0.741	cyto
MeHsp20-30	190	21788.96	5.89	-0.545	chlo
MeHsp20-31	197	22776.16	5.78	-0.582	vacu

MeHsp20-32	197	22776.16	5.78	-0.582	vacu
MeHsp20-33	155	17453.85	6.75	-0.559	cyto
MeHsp20-34	285	32483.2	9.46	-0.863	golg
MeHsp20-35	250	28181.99	9.04	-0.801	chlo
MeHsp20-36	240	26988.54	7.83	-0.758	chlo
MeHsp20-37	226	25699.7	5.34	-0.905	cyto
MeHsp20-38	164	18617.94	6.46	-0.74	cyto
MeHsp20-39	169	19164.81	8.41	-0.773	cyto
MeHsp20-40	164	18634.99	6.77	-0.698	cyto
MeHsp20-41	164	18517.92	6.35	-0.681	cyto
MeHsp20-42	164	18724.15	7.93	-0.745	cyto
MeHsp20-43	194	22356.51	9.49	-0.605	chlo
MeHsp20-44	164	18631.11	7.9	-0.668	cyto
MeHsp20-45	159	18208.45	5.72	-0.793	cyto
MeHsp20-46	136	15485.86	6.16	-0.538	cyto
MeHsp20-47	202	23512	6.03	-0.505	chlo
MeHsp20-48	155	17851.37	6.33	-0.788	pero
MeHsp20-49	143	15446.99	8.54	-0.094	cyto
MeHsp20-50	190	21551.95	8.75	-0.471	mito
<i>Euphorbia peplus</i>					
EpHsp20-1	319	36682.6	9.01	-1.101	chlo
EpHsp20-2	226	25643.28	9.54	-0.567	nucl
EpHsp20-3	119	13601.41	4.97	-0.782	cyto
EpHsp20-4	235	26292.86	8.64	-0.695	chlo
EpHsp20-5	197	22626.87	6.24	-0.49	chlo
EpHsp20-6	208	23918.88	6.01	-0.728	golg
EpHsp20-7	204	22880.97	5.28	-0.574	cyto
EpHsp20-8	253	28355.15	9.33	-0.729	chlo
EpHsp20-9	227	25567.91	6.93	-0.732	mito
EpHsp20-10	281	31655.48	9.46	-0.909	cyto
EpHsp20-11	170	18921.99	8.7	-0.329	nucl
EpHsp20-12	272	31068.17	5.15	-0.681	cyto
EpHsp20-13	149	17489.41	9.1	-0.191	cyto
EpHsp20-14	174	18849.48	4.69	-0.113	cyto
EpHsp20-15	163	17337.89	8.49	-0.213	cyto
EpHsp20-16	361	40726.03	8.52	-0.55	nucl
EpHsp20-17	444	49124.87	5.31	-0.719	nucl
<i>Mercurialis annua</i>					
MaHsp20-1	168	18885.73	9.05	-0.318	chlo
MaHsp20-2	201	22229.5	9.62	-0.612	golg
MaHsp20-3	154	17498.81	6.21	-0.745	cyto
MaHsp20-4	154	17526.87	6.21	-0.729	cyto
MaHsp20-5	154	17438.79	6.21	-0.682	cyto
MaHsp20-6	143	15680.19	8.93	-0.189	cyto

MaHsp20-7	498	54843.02	4.97	-0.579	cyto
MaHsp20-8	209	23949.38	5.73	-0.322	chlo
MaHsp20-9	158	17560.33	5.77	-0.37	cyto
MaHsp20-10	158	17691.41	5.96	-0.432	cyto
MaHsp20-11	203	21777.85	6.59	-0.203	nucl
MaHsp20-12	411	46059.48	6.28	-0.463	cyto
MaHsp20-13	239	27192.46	5.72	-0.909	chlo
MaHsp20-14	194	21851.95	8.48	-0.597	chlo
MaHsp20-15	401	44675.35	5.64	-0.564	nucl
MaHsp20-16	628	69378.28	4.82	-0.872	nucl
MaHsp20-17	272	29453.43	8.56	-0.466	nucl
MaHsp20-18	207	22936.91	6	-0.601	mito
MaHsp20-19	141	16123.59	7.84	-0.478	pero
MaHsp20-20	189	21816.8	5.25	-0.514	vacu
MaHsp20-21	142	16109.48	9.46	-0.272	extr
MaHsp20-22	244	26904.54	7.72	-0.523	chlo
MaHsp20-23	148	16455.35	5.24	-0.411	cyto
MaHsp20-24	223	25343.35	9.22	-0.696	golg
MaHsp20-25	157	17772.11	5.82	-0.626	cyto
MaHsp20-26	158	17884.25	6.19	-0.597	cyto
MaHsp20-27	157	17762.16	5.82	-0.624	cyto
MaHsp20-28	154	17432.76	5.82	-0.636	cyto
MaHsp20-29	154	17392.76	5.82	-0.588	cyto
MaHsp20-30	148	16772.25	5.71	-0.597	cyto
MaHsp20-31	244	27998.66	9.13	-0.794	chlo
MaHsp20-32	155	17594.98	5.57	-0.719	cyto

Hevea brasiliensis

HbHsp20-1	328	36824.11	9.38	-0.929	golg
HbHsp20-2	154	17585.04	5.72	-0.594	cyto
HbHsp20-3	160	18359.77	7.93	-0.755	cyto
HbHsp20-4	160	18176.6	6.77	-0.688	cyto
HbHsp20-5	441	49272.4	5.73	-0.694	nucl
HbHsp20-6	155	17722.06	6.07	-0.59	cyto
HbHsp20-7	140	15802.93	5.83	-0.671	cyto
HbHsp20-8	538	60013.07	5.06	-0.738	nucl
HbHsp20-9	214	23830.31	9.13	-0.533	chlo
HbHsp20-10	148	17224.06	9.62	-0.516	cyto
HbHsp20-11	166	18996.28	9.78	-0.187	chlo
HbHsp20-12	297	33273.01	9.42	-0.856	golg
HbHsp20-13	155	17446.97	6.84	-0.593	cyto
HbHsp20-14	241	27406.99	9.13	-0.849	chlo
HbHsp20-15	321	35444.09	9.05	-0.733	golg
HbHsp20-16	190	21663.98	6.54	-0.506	mito
HbHsp20-17	158	18194.59	5.82	-0.704	cyto

HbHsp20-18	162	18346.79	5.99	-0.607	cyto
HbHsp20-19	96	11257.01	9.74	-1.001	cyto
HbHsp20-20	157	17968.34	6.17	-0.677	cyto
HbHsp20-21	100	11171.76	8.69	-0.241	chlo
HbHsp20-22	692	76130.34	5.49	-0.904	nucl
HbHsp20-23	236	26611.16	9.64	-0.59	nucl
HbHsp20-24	143	16325.56	8.01	-0.622	pero
HbHsp20-25	214	23877.94	7.79	-0.601	mito
HbHsp20-26	125	13590.68	5.73	-0.081	chlo
HbHsp20-27	233	25801.46	8.38	-0.527	chlo
HbHsp20-28	240	26895.45	8.86	-0.762	chlo
HbHsp20-29	436	48663.4	5.3	-0.73	nucl
HbHsp20-30	208	23819.67	5.18	-0.694	cyto
HbHsp20-31	162	18447.83	6	-0.68	cyto
HbHsp20-32	215	24534.38	7.62	-0.21	cyto
HbHsp20-33	164	18601.9	6.19	-0.638	cyto
HbHsp20-34	198	22648.02	6.15	-0.462	extr
HbHsp20-35	136	15651.17	7.74	-0.594	cyto
HbHsp20-36	246	27971.65	6.71	-0.461	chlo
HbHsp20-37	524	59395.6	4.77	-1.01	cyto
HbHsp20-38	157	18012.32	5.55	-0.659	cyto
HbHsp20-39	157	17992.37	5.36	-0.612	cyto
HbHsp20-40	151	17389.75	6.33	-0.726	cyto
HbHsp20-41	156	17858.33	6.76	-0.599	cyto
HbHsp20-42	158	18075.36	5.98	-0.676	cyto
HbHsp20-43	153	17503.9	5.55	-0.614	cyto
HbHsp20-44	612	67995.92	5.58	-0.831	nucl
HbHsp20-45	218	24917.84	5.83	-0.998	chlo
HbHsp20-46	165	18647.65	8.85	-0.295	cyto
HbHsp20-47	183	20934.12	9.6	-0.448	golg
HbHsp20-48	207	22426.48	4.92	-0.28	nucl
HbHsp20-49	367	40719.15	5.62	-0.354	nucl
HbHsp20-50	198	22648.02	6.15	-0.462	extr
<i>Vernicia fordii</i>					
VfHsp20-1	275	31045.53	9.57	-0.876	cyto
VfHsp20-2	191	21925.5	6.93	-0.398	chlo
VfHsp20-3	453	50851.29	9.49	-1.005	cyto
VfHsp20-4	129	14415.51	8.53	-0.707	cyto
VfHsp20-5	140	16047.42	8.01	-0.479	pero
VfHsp20-6	248	27660.24	8.74	-0.508	extr
VfHsp20-7	248	27660.24	8.74	-0.508	extr
VfHsp20-8	176	20098.82	8.83	-0.663	cyto
VfHsp20-9	163	18587.05	6.86	-0.675	cyto
VfHsp20-10	154	17630.11	5.99	-0.636	cyto

VfHsp20-11	138	15953.02	5.69	-0.69	cysk
VfHsp20-12	157	18015.36	5.55	-0.682	cyto
VfHsp20-13	157	18075.51	7.93	-0.713	cyto
VfHsp20-14	157	18073.4	5.36	-0.727	cyto
VfHsp20-15	157	18037.46	5.55	-0.666	cyto
VfHsp20-16	156	17980.36	5.71	-0.654	cyto
VfHsp20-17	157	17857.29	5.52	-0.548	cyto
VfHsp20-18	151	17367.66	5.53	-0.672	cyto
VfHsp20-19	149	17330.82	8.61	-0.674	cyto
VfHsp20-20	180	20403.9	6.17	-0.689	chlo
VfHsp20-21	96	11205.8	7.85	-0.817	chlo
VfHsp20-22	152	17429.82	6.76	-0.649	cyto
VfHsp20-23	617	68238.91	5.5	-0.932	nucl
VfHsp20-24	272	29876.08	8.7	-0.492	cyto
VfHsp20-25	222	25209.7	9.02	-0.468	cyto
VfHsp20-26	151	17453.79	6.33	-0.705	cyto
VfHsp20-27	156	17784.15	5.35	-0.604	cyto
VfHsp20-28	262	30177.49	8.79	-0.606	nucl
VfHsp20-29	550	64030.19	8.72	-0.804	nucl
VfHsp20-30	157	18075.51	7.93	-0.713	cyto
VfHsp20-31	157	18036.47	5.81	-0.666	cyto
VfHsp20-32	235	26563.09	6.98	-0.707	mito
VfHsp20-33	152	17444.79	5.48	-0.649	cyto
VfHsp20-34	164	18806.08	5.5	-0.754	cyto
VfHsp20-35	211	24498.77	4.93	-0.762	cyto
VfHsp20-36	232	25665.44	6.85	-0.395	chlo
VfHsp20-37	126	14279.23	7.85	-0.934	cyto
VfHsp20-38	179	20476.66	9.58	-0.448	golg
VfHsp20-39	202	22865.96	9.24	-0.636	chlo
VfHsp20-40	301	33603.62	7.68	-0.95	chlo
VfHsp20-41	150	17417.85	5.96	-0.631	cyto
VfHsp20-42	152	17491.72	5.8	-0.722	cyto
VfHsp20-43	120	14003.76	6.31	-0.839	cyto
VfHsp20-44	156	17892.25	5.35	-0.615	cyto
VfHsp20-45	251	28071.86	5.48	-0.336	nucl
VfHsp20-46	153	17299.1	6.83	-0.159	mito
VfHsp20-47	207	24049.87	4.92	-0.803	cyto
VfHsp20-48	469	52218.5	5.8	-0.681	chlo
VfHsp20-49	119	13366.6	9.56	-0.687	cyto
VfHsp20-50	160	17955.6	6.45	-0.622	cyto
VfHsp20-51	157	17685.4	5.93	-0.497	cyto
VfHsp20-52	146	16528.24	7.66	0.073	extr
VfHsp20-53	166	19000.04	6.22	-0.886	nucl
VfHsp20-54	152	17536.94	5.21	-0.553	cyto

VfHsp20-55	206	23229.45	5.3	-0.413	chlo
VfHsp20-56	219	24600.76	6.66	-0.535	mito

cyto: cytoplasm; chlo: chloroplast; mito: mitochondrion; nucl: nuclear; pero: peroxisomal; vacu: vacuolar; cysk: cytoskeleton; golg: golgi apparatus; extr: extracellular regions