

**Table S1. Detailed information of all identified *C. sativa* Dof proteins.**

Name	Gene ID	Chr.	Start	End	SL	MW(Da)	pI	Group
CsDof1	Csa00734s020.1	Scaffold00734	1511	2239	243	27544.9	4.47	C <sub>2.2</sub>
CsDof2	Csa01g024360.1	1	10042478	10044111	201	22163.6	9.41	A
CsDof3	Csa02g002370.1	2	812220	814123	297	33428.7	7.32	C <sub>2.1</sub>
CsDof4	Csa02g067130.1	2	25104024	25105348	260	28312.1	8.76	C <sub>1</sub>
CsDof5	Csa02g067810.1	2	25414668	25416314	278	30027.7	6.5	A
CsDof6	Csa02g070560.1	2	26283466	26285344	301	33565.5	8.81	D <sub>1</sub>
CsDof7	Csa02g071140.1	2	26595217	26596461	312	33738	8.85	C <sub>1</sub>
CsDof8	Csa02g073390.1	2	27544030	27545368	322	35137.8	9.03	B <sub>2</sub>
CsDof9	Csa02g075810.1	2	28627949	28629196	227	24045.4	9.26	D <sub>2</sub>
CsDof10	Csa03g011080.1	3	3158381	3160557	338	36291.9	9.6	B <sub>1</sub>
CsDof11	Csa03g025140.1	3	9700513	9701298	262	29583.1	4.47	C <sub>2.2</sub>
CsDof12	Csa03g028730.1	3	11573172	11574397	373	41675.5	7.13	D <sub>1</sub>
CsDof13	Csa03g032300.1	3	13562484	13563246	176	19374.8	9.53	D <sub>1</sub>
CsDof14	Csa03g051350.1	3	21808702	21809584	218	22745.7	8.2	D <sub>2</sub>
CsDof15	Csa03g058660.1	3	25496746	25497919	220	23861.3	9.17	A
CsDof16	Csa04g026300.1	4	12854002	12855214	244	26472.3	9.33	C <sub>1</sub>
CsDof17	Csa04g030380.1	4	14525989	14528110	459	51013.4	7.93	D <sub>1</sub>
CsDof18	Csa04g036060.1	4	17170621	17171838	316	33442	9.48	D <sub>2</sub>
CsDof19	Csa04g038300.1	4	18491878	18492627	250	27124.7	5.04	C <sub>2.2</sub>
CsDof20	Csa04g041620.1	4	20303062	20305318	380	41888.8	9.17	B <sub>1</sub>
CsDof21	Csa04g051210.1	4	24247602	24249595	323	34663.6	9.1	B <sub>1</sub>
CsDof22	Csa04g065700.1	4	29412600	29414878	371	40477.4	9.34	C <sub>2.1</sub>
CsDof23	Csa05g002560.1	5	747122	749769	375	41135	9.14	C <sub>2.1</sub>
CsDof24	Csa05g016230.1	5	6030856	6032684	323	34663.6	9.1	B <sub>1</sub>
CsDof25	Csa05g035600.1	5	13669977	13672948	345	37041.4	9.65	B <sub>1</sub>
CsDof26	Csa05g038090.1	5	14240921	14242753	288	31402.4	8.28	C <sub>1</sub>
CsDof27	Csa05g086300.1	5	31136601	31138757	402	44393.8	9.34	D <sub>1</sub>
CsDof28	Csa05g094020.1	5	34030314	34032624	297	32895.3	9.71	C <sub>2.1</sub>
CsDof29	Csa06g019350.1	6	10364886	10366022	245	26643.5	9.33	C <sub>1</sub>
CsDof30	Csa06g021150.1	6	11744399	11746425	459	50866.2	8.06	D <sub>1</sub>

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CsDof31	Csa06g024450.1	6	13954375	13955701	255	26431.1	8.33	D <sub>2</sub>
CsDof32	Csa06g026770.1	6	15180762	15181517	252	27324.9	5.25	C <sub>2.2</sub>
CsDof33	Csa06g029980.1	6	16816184	16818380	359	39124.5	8.77	B <sub>1</sub>
CsDof34	Csa06g040340.1	6	20430747	20432478	325	34859.8	9.1	B <sub>1</sub>
CsDof35	Csa07g002770.1	7	898561	901037	297	32911.3	9.71	C <sub>2.1</sub>
CsDof36	Csa07g007240.1	7	2776067	2777245	174	19240.9	9.95	D <sub>1</sub>
CsDof37	Csa07g015680.1	7	7361190	7363778	346	36910.2	9.81	B <sub>1</sub>
CsDof38	Csa07g016040.1	7	7763652	7765348	346	38057.2	8.04	C <sub>1</sub>
CsDof39	Csa07g036310.1	7	19629890	19632718	457	49871.7	9.14	D <sub>1</sub>
CsDof40	Csa07g036310.2	7	19629890	19632718	404	44387.8	9.34	D <sub>1</sub>
CsDof41	Csa07g066190.1	7	33600335	33602555	337	36330.6	8.48	C <sub>2.1</sub>
CsDof42	Csa08g053300.1	8	22789191	22790319	298	33645.8	7.05	C <sub>2.1</sub>
CsDof43	Csa08g062200.1	8	27021304	27023299	398	42183.1	9.18	B <sub>1</sub>
CsDof44	Csa09g039660.1	9	14874134	14875566	244	26569.4	9.33	C <sub>1</sub>
CsDof45	Csa09g047820.1	9	17272901	17274891	456	50656.9	7.93	D <sub>1</sub>
CsDof46	Csa09g053360.1	9	20946925	20947683	253	26221.9	8.5	D <sub>2</sub>
CsDof47	Csa09g059550.1	9	22556481	22557230	250	27159.7	4.89	C <sub>2.2</sub>
CsDof48	Csa09g067350.1	9	25203256	25205551	358	38969.3	8.56	B <sub>1</sub>
CsDof49	Csa09g099480.1	9	38038132	38039862	342	36543.8	7.63	C <sub>2.1</sub>
CsDof50	Csa10g003120.1	10	993796	994641	236	26052.1	9.88	B <sub>2</sub>
CsDof51	Csa10g018980.1	10	8034126	8036354	355	38214.6	7.84	C <sub>2.1</sub>
CsDof52	Csa10g022390.1	10	9945469	9946308	263	29454.6	8.74	C <sub>3</sub>
CsDof53	Csa10g022470.1	10	9975446	9976503	212	23502.9	9.04	C <sub>3</sub>
CsDof54	Csa10g046910.1	10	22637181	22639673	461	50017.2	5.27	D <sub>1</sub>
CsDof55	Csa11g003480.1	11	1150206	1151031	250	27530.7	10.06	B <sub>2</sub>
CsDof56	Csa11g020730.1	11	9427399	9430227	587	63056.4	7.2	C <sub>2.1</sub>
CsDof57	Csa11g025410.1	11	11790424	11791206	261	29308.3	8.93	C <sub>3</sub>
CsDof58	Csa11g025430.1	11	11804952	11805737	262	29328.2	8.21	C <sub>3</sub>
CsDof59	Csa11g025480.1	11	11834449	11835491	247	27455.3	8.07	C <sub>3</sub>
CsDof60	Csa11g055680.1	11	26661088	26663396	461	50032.9	5.01	D <sub>1</sub>
CsDof61	Csa11g094130.1	11	45729174	45730543	265	28818.7	8.57	C <sub>1</sub>

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CsDof62	Csa11g094710.1	11	46040949	46042851	308	32806.7	7.05	A
CsDof63	Csa11g099290.1	11	46879042	46880808	301	33534.5	8.71	D <sub>1</sub>
CsDof64	Csa11g099790.1	11	47150078	47151961	422	45252	8.54	C <sub>1</sub>
CsDof65	Csa11g100300.1	11	47398410	47404243	447	46561.5	6.76	C <sub>1</sub>
CsDof66	Csa11g102460.1	11	48403866	48405309	320	35003.6	9.03	B <sub>2</sub>
CsDof67	Csa11g103980.1	11	49196591	49197484	226	23886.2	9.26	D <sub>2</sub>
CsDof68	Csa12g003340.1	12	1081406	1082311	245	27261.5	9.63	B <sub>2</sub>
CsDof69	Csa12g030340.1	12	9216706	9218934	355	38241.7	7.84	C <sub>2.1</sub>
CsDof70	Csa12g037400.1	12	12490613	12494580	548	61181.4	6.69	C <sub>3</sub>
CsDof71	Csa12g037460.1	12	12548694	12549507	262	29293.2	8.55	C <sub>3</sub>
CsDof72	Csa12g037480.1	12	12568810	12569798	255	28491.3	8.13	C <sub>3</sub>
CsDof73	Csa12g037530.1	12	12587269	12588117	210	23226.7	9.01	C <sub>3</sub>
CsDof74	Csa12g042020.1	12	13579393	13580178	262	29262.3	8.81	C <sub>3</sub>
CsDof75	Csa12g081790.1	12	29677128	29679440	532	58409.7	7.34	D <sub>1</sub>
CsDof76	Csa13g002360.1	13	653090	655090	401	42408.4	9.36	B <sub>1</sub>
CsDof77	Csa13g056100.1	13	23317719	23319726	298	33497.7	7.18	C <sub>2.1</sub>
CsDof78	Csa14g009010.1	14	3182958	3185106	338	36288.9	9.6	B <sub>1</sub>
CsDof79	Csa14g026580.1	14	10410267	10411430	262	29542	4.53	C <sub>2.2</sub>
CsDof80	Csa14g031920.1	14	12388826	12390053	373	41563.4	6.67	D <sub>1</sub>
CsDof81	Csa14g036700.1	14	14705836	14706892	176	19402.8	9.53	D <sub>1</sub>
CsDof82	Csa14g051530.1	14	23704179	23705150	218	22668.6	7.85	D <sub>2</sub>
CsDof83	Csa14g059960.1	14	27993778	27994881	220	24150.7	9.21	A
CsDof84	Csa15g031650.1	15	12308092	12308691	200	22080.6	9.41	A
CsDof85	Csa16g003010.1	16	1083925	1086375	285	31472.7	9.86	C <sub>2.1</sub>
CsDof86	Csa16g007040.1	16	2722225	2723024	174	19243.8	9.77	D <sub>1</sub>
CsDof87	Csa16g016240.1	16	6557535	6562202	350	37467.8	9.76	B <sub>1</sub>
CsDof88	Csa16g016640.1	16	6947869	6950240	225	24485.8	8.79	C <sub>1</sub>
CsDof89	Csa16g031000.1	16	16450510	16452381	433	47841	9.32	D <sub>1</sub>
CsDof90	Csa17g011020.1	17	3043278	3045269	342	36732.3	9.6	B <sub>1</sub>
CsDof91	Csa17g027260.1	17	10021615	10023000	359	40773.6	6.95	C <sub>2.2</sub>
CsDof92	Csa17g034060.1	17	12361528	12363002	371	41525.4	7.13	D <sub>1</sub>

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CsDof93	Csa17g041880.1	17	14836571	14837612	176	19388.8	9.52	D <sub>1</sub>
CsDof94	Csa17g073130.1	17	26338345	26339380	315	32285.9	5.11	D <sub>2</sub>
CsDof95	Csa17g090650.1	17	31096635	31098146	219	24071.6	8.94	A
CsDof96	Csa18g033540.1	18	16930288	16932921	245	26760.5	9.5	C <sub>1</sub>
CsDof97	Csa18g034230.1	18	17313844	17315504	308	32767.6	6.99	A
CsDof98	Csa18g035890.1	18	18171584	18173438	301	33687.8	8.86	D <sub>1</sub>
CsDof99	Csa18g036390.1	18	18423753	18425674	432	46419.7	8.9	C <sub>1</sub>
CsDof100	Csa18g039010.1	18	19620276	19621697	320	34976.6	9.03	B <sub>2</sub>
CsDof101	Csa18g040580.1	18	20377061	20379652	325	34089.2	8.39	D <sub>2</sub>
CsDof102	Csa19g029310.1	19	11438070	11439465	309	34059.1	9.3	A
CsDof103	Csa20g002520.1	20	715040	717031	401	42398.3	9.36	B <sub>1</sub>