

Supplementary Table S2 The physicochemical properties of *FaPP2Cs* in pineapple strawberry

Group	Gene name	Sequence ID	Length (aa)	MW (Da)	pI	Full length (bp)	GRAV Y	Subcellular localization
A	<i>FaPP2C21</i> 3	snap_masked-Fvb1-4-processed-gene-122.24-mRNA-1	314	34142.78	6.75	1385	-0.041	Nuclear
	<i>FaPP2C12</i> 4	maker-Fvb4-2-augustus-gene-95.40-mRNA-1	504	55061.83	4.94	3572	-0.251	Nuclear
	<i>FaPP2C13</i> 6	maker-Fvb4-4-augustus-gene-107.30-mRNA-1	504	55005.77	4.86	3649	-0.245	Nuclear
	<i>FaPP2C12</i> 9	maker-Fvb4-3-augustus-gene-192.33-mRNA-1	504	54954.65	4.86	3434	-0.240	Nuclear
	<i>FaPP2C12</i> 7	maker-Fvb4-3-augustus-gene-138.38-mRNA-1	504	54968.67	4.86	3372	-0.241	Nuclear
	<i>FaPP2C14</i> 5	maker-Fvb5-2-augustus-gene-127.34-mRNA-1	787	86375.41	5.34	5992	-0.528	Nuclear
	<i>FaPP2C15</i> 0	maker-Fvb5-4-augustus-gene-109.32-mRNA-1	787	86370.49	5.41	5667	-0.519	Chloroplast
	<i>FaPP2C14</i> 8	maker-Fvb5-3-augustus-gene-152.35-mRNA-1	787	86599.66	5.38	5736	-0.540	Chloroplast
	<i>FaPP2C14</i> 2	maker-Fvb5-1-augustus-gene-138.41-mRNA-1	782	86015.97	5.33	5645	-0.537	Chloroplast
	<i>FaPP2C16</i> 8	maker-Fvb6-2-snap-gene-192.61-mRNA-1	685	76972.69	5.86	2927	-0.498	Nuclear
C	<i>FaPP2C17</i> 8	maker-Fvb6-3-snap-gene-306.46-mRNA-1	665	74580.88	5.65	3208	-0.519	Nuclear
	<i>FaPP2C15</i> 5	maker-Fvb6-1-augustus-gene-270.38-mRNA-1	667	74598.89	5.78	3788	-0.500	Nuclear
	<i>FaPP2C18</i> 6	maker-Fvb6-4-augustus-gene-97.36-mRNA-1	668	74777.14	5.88	3461	-0.523	Nuclear
	<i>FaPP2C11</i> 1	maker-Fvb3-4-augustus-gene-64.43-mRNA-1	718	80356.91	5.58	4475	-0.521	Chloroplast
	<i>FaPP2C10</i> 0	maker-Fvb3-3-augustus-gene-234.19-mRNA-1	718	80310.90	5.58	3793	-0.515	Chloroplast
	<i>FaPP2C93</i>	maker-Fvb3-1-augustus-gene-62.13-mRNA-1	720	80432.96	5.49	3916	-0.502	Chloroplast
	<i>FaPP2C97</i>	maker-Fvb3-2-augustus-gene-253.31-mRNA-1	714	80058.61	5.58	3313	-0.515	Chloroplast
	<i>FaPP2C16</i> 2	maker-Fvb6-1-snap-gene-208.65-mRNA-1	186	21196.24	7.12	2599	-0.418	Nuclear
	<i>FaPP2C15</i> 4	maker-Fvb6-1-augustus-gene-201.46-mRNA-1	383	43200.38	6.87	3334	-0.271	Cytoplasm
	<i>FaPP2C18</i>	maker-Fvb6-4-augustus-	383	43203.30	6.47	2853	-0.283	Cytoplasm

1	gene-162.31-mRNA-1							
<i>FaPP2C16</i>	maker-Fvb6-2-augustus-	383	43276.33	6.47	3178	-0.301	Cytoplasm	
3	gene-124.24-mRNA-1							
<i>FaPP2C17</i>	maker-Fvb6-3-augustus-	397	44805.28	6.40	3274	-0.234	Cytoplasm	
0	gene-215.29-mRNA-1							
<i>FaPP2C21</i>	snap_masked-Fvb2-3-							
7	processed-gene-210.15-	417	46418.00	8.90	6192	-0.251	Chloroplast	
	mRNA-1							
<i>FaPP2C21</i>	snap_masked-Fvb2-4-							
8	processed-gene-23.22-	422	46845.35	8.17	2987	-0.254	Chloroplast	
	mRNA-1							
<i>FaPP2C21</i>	snap_masked-Fvb2-1-							
4	processed-gene-18.24-	423	46873.38	7.74	2607	-0.248	Chloroplast	
	mRNA-1							
<i>FaPP2C65</i>	maker-Fvb1-4-augustus-	449	50741.11	5.93	4630	-0.129	Cytoplasm	
	gene-88.43-mRNA-1							
<i>FaPP2C39</i>	maker-Fvb1-1-augustus-	448	50654.01	5.77	3458	-0.138	Cytoplasm	
	gene-181.33-mRNA-1							
<i>FaPP2C46</i>	maker-Fvb1-2-augustus-	449	50860.17	5.74	3333	-0.149	Cytoplasm	
	gene-109.34-mRNA-1							
<i>FaPP2C59</i>	maker-Fvb1-3-augustus-	449	50695.96	5.83	3501	-0.144	Cytoplasm	
	gene-97.51-mRNA-1							
<i>FaPP2C12</i>	maker-Fvb4-3-augustus-	384	42160.01	6.50	3934	-0.190	Vacuolar	
6	gene-125.56-mRNA-1							
<i>FaPP2C19</i>	augustus_masked-Fvb4-4-		132307.4					
	processed-gene-93.12-	1183	1	6.36	10019	-0.263	Plasma membrane	
	mRNA-1							
<i>FaPP2C16</i>	maker-Fvb6-2-augustus-	380	42631.80	9.30	2916	-0.319	Mitochondrial	
4	gene-184.37-mRNA-1							
<i>FaPP2C22</i>	snap_masked-Fvb6-1-							
6	processed-gene-262.36-	395	44593.02	9.42	2670	-0.382	Mitochondrial	
	mRNA-1							
<i>FaPP2C18</i>	maker-Fvb6-4-augustus-	380	42679.83	9.20	2701	-0.323	Chloroplast	
0	gene-104.54-mRNA-1							
<i>FaPP2C17</i>	maker-Fvb6-3-augustus-	380	42651.78	9.30	2714	-0.335	Mitochondrial	
1	gene-325.48-mRNA-1							
<i>FaPP2C18</i>	maker-Fvb7-1-augustus-	385	42893.44	9.11	7002	-0.224	Chloroplast	
8	gene-245.60-mRNA-1							
<i>FaPP2C20</i>	maker-Fvb7-3-augustus-	385	42951.53	9.20	4168	-0.232	Chloroplast	
4	gene-79.53-mRNA-1							
<i>FaPP2C20</i>	maker-Fvb7-2-snap-gene-	345	38499.49	9.11	7021	-0.247	Chloroplast	
0	219.91-mRNA-1							
<i>FaPP2C19</i>	maker-Fvb7-2-augustus-	385	42903.49	9.20	4078	-0.230	Chloroplast	
8	gene-301.38-mRNA-1							

E	<i>FaPP2C20</i> 9	maker-Fvb7-4-augustus- gene-76.42-mRNA-1	385	42937.50	9.20	2808	-0.229	Chloroplast
	<i>FaPP2C20</i> 8	maker-Fvb7-4-augustus- gene-74.49-mRNA-1	385	42937.50	9.20	2808	-0.229	Chloroplast
	<i>FaPP2C81</i>	maker-Fvb2-4-augustus- gene-120.19-mRNA-1	395	43853.76	8.45	4804	-0.283	Nuclear
	<i>FaPP2C77</i>	maker-Fvb2-3-augustus- gene-118.28-mRNA-1	395	43837.72	8.17	4987	-0.275	Nuclear
	<i>FaPP2C72</i>	maker-Fvb2-2-augustus- gene-108.55-mRNA-1	395	43853.81	8.45	4844	-0.263	Nuclear
	<i>FaPP2C21</i> 6	snap_masked-Fvb2-1- processed-gene-93.14- mRNA-1	416	46152.64	8.58	4659	-0.196	Chloroplast
	<i>FaPP2C67</i>	maker-Fvb1-4-snap-gene- 52.90-mRNA-1	393	43534.58	8.55	3891	-0.243	Chloroplast
	<i>FaPP2C45</i>	maker-Fvb1-1-snap-gene- 222.55-mRNA-1	393	43498.54	8.55	3699	-0.238	Chloroplast
	<i>FaPP2C21</i> 2	snap_masked-Fvb1-2- processed-gene-74.36- mRNA-1	428	47470.24	9.02	3801	-0.228	Chloroplast
	<i>FaPP2C58</i>	maker-Fvb1-3-augustus- gene-59.44-mRNA-1	393	43504.55	8.26	4209	-0.235	Chloroplast
	<i>FaPP2C12</i> 2	maker-Fvb4-2-augustus- gene-59.42-mRNA-1	542	59145.98	8.63	3506	-0.519	Nuclear
	<i>FaPP2C13</i> 9	maker-Fvb4-4-augustus- gene-58.36-mRNA-1	542	59298.23	8.82	3482	-0.537	Nuclear
	<i>FaPP2C11</i> 6	maker-Fvb4-1-augustus- gene-142.35-mRNA-1	540	59026.13	8.94	3574	-0.532	Nuclear
	<i>FaPP2C13</i> 3	maker-Fvb4-3-augustus- gene-91.57-mRNA-1	542	58888.65	8.71	3276	-0.524	Nuclear
	<i>FaPP2C99</i>	maker-Fvb3-2-augustus- gene-272.29-mRNA-1	380	41172.57	7.02	2029	-0.347	Chloroplast
	<i>FaPP2C11</i> 0	maker-Fvb3-4-augustus- gene-46.35-mRNA-1	380	41216.64	7.93	2051	-0.362	Chloroplast
	<i>FaPP2C10</i> 2	maker-Fvb3-3-augustus- gene-255.28-mRNA-1	380	41223.53	7.51	2055	-0.377	Chloroplast
	<i>FaPP2C91</i>	maker-Fvb3-1-augustus- gene-43.30-mRNA-1	380	40904.14	7.49	2539	-0.361	Chloroplast
	<i>FaPP2C18</i> 9	maker-Fvb7-1-augustus- gene-260.26-mRNA-1	412	44853.14	8.68	2233	-0.391	Nuclear
	<i>FaPP2C33</i>	augustus_masked-Fvb7-2- processed-gene-243.9- mRNA-1	1038	114863.1 9	6.99	8943	-0.128	Chloroplast
	<i>FaPP2C38</i>	augustus_masked-Fvb7-4-	2016	226678.0	5.43	13624	-0.186	Chloroplast

		processed-gene-45.11-mRNA-1		9				
		augustus_masked-Fvb7-3-processed-gene-59.9-mRNA-1	2106	236904.86	5.43	13793	-0.169	Chloroplast
	<i>FaPP2C09</i>	augustus_masked-Fvb2-4-processed-gene-146.8-mRNA-1	658	72942.40	5.84	1977	-0.141	Cytoplasm
	<i>FaPP2C07</i>	augustus_masked-Fvb2-2-processed-gene-85.6-mRNA-1	658	72776.15	5.80	1977	-0.128	Cytoplasm
	<i>FaPP2C82</i>	maker-Fvb2-4-augustus-gene-129.28-mRNA-1	385	41942.31	5.31	3628	-0.251	Nuclear
	<i>FaPP2C68</i>	maker-Fvb2-1-augustus-gene-102.38-mRNA-1	385	41991.45	5.24	3179	-0.226	Nuclear
	<i>FaPP2C57</i>	maker-Fvb1-3-augustus-gene-54.51-mRNA-1	390	42166.81	5.61	3793	-0.242	Nuclear
	<i>FaPP2C51</i>	maker-Fvb1-2-augustus-gene-70.48-mRNA-1	390	42245.72	5.35	3015	-0.260	Nuclear
	<i>FaPP2C40</i>	maker-Fvb1-1-augustus-gene-227.48-mRNA-1	390	42207.84	5.70	2980	-0.258	Nuclear
	<i>FaPP2C64</i>	maker-Fvb1-4-augustus-gene-47.35-mRNA-1	390	42133.68	5.43	2943	-0.250	Nuclear
F	<i>FaPP2C22</i>	augustus_masked-Fvb5-2-processed-gene-164.7-mRNA-1	248	27111.79	5.56	2587	-0.184	Cytoplasm
	<i>FaPP2C15</i>	maker-Fvb5-4-augustus-gene-144.29-mRNA-1	436	48330.23	5.78	3766	-0.236	Nuclear
	<i>FaPP2C14</i>	maker-Fvb5-3-augustus-gene-118.34-mRNA-1	391	43087.21	5.80	3003	-0.232	Nuclear
	<i>FaPP2C14</i>	maker-Fvb5-1-augustus-gene-175.42-mRNA-1	388	42816.27	5.98	2869	-0.145	Cytoplasm
	<i>FaPP2C21</i>	snap_masked-Fvb1-1-processed-gene-266.33-mRNA-1	370	40895.80	4.81	2374	-0.355	Cytoskeleton
	<i>FaPP2C75</i>	maker-Fvb2-2-augustus-gene-23.35-mRNA-1	377	41353.61	5.35	3615	-0.349	Chloroplast
	<i>FaPP2C04</i>	augustus_masked-Fvb2-1-processed-gene-197.12-mRNA-1	378	41498.79	5.27	3859	-0.336	Chloroplast
	<i>FaPP2C80</i>	maker-Fvb2-3-augustus-gene-9.48-mRNA-1	377	41479.95	5.65	5200	-0.330	Chloroplast
	<i>FaPP2C84</i>	maker-Fvb2-4-augustus-gene-211.36-mRNA-1	378	41504.87	5.44	3415	-0.332	Chloroplast

	<i>FaPP2C22</i> 4	snap_masked-Fvb4-4-processed-gene-88.24-mRNA-1	413	45742.55	5.21	2316	-0.236	Nuclear
	<i>FaPP2C12</i> 3	maker-Fvb4-2-augustus-gene-89.36-mRNA-1	385	42393.94	5.20	2697	-0.174	Nuclear
	<i>FaPP2C62</i>	maker-Fvb1-4-augustus-gene-171.15-mRNA-1	387	42831.42	4.85	3740	-0.213	Cytoplasm, Nuclear
	<i>FaPP2C47</i>	maker-Fvb1-2-augustus-gene-207.16-mRNA-1	387	42812.46	4.72	6357	-0.153	Cytoplasm
	<i>FaPP2C44</i>	maker-Fvb1-1-augustus-gene-84.21-mRNA-1	296	32985.38	4.85	3018	-0.158	Nuclear
	<i>FaPP2C54</i>	maker-Fvb1-3-augustus-gene-201.15-mRNA-1	381	42340.94	4.78	4045	-0.177	Nuclear
	<i>FaPP2C15</i> 2	maker-Fvb5-4-augustus-gene-74.38-mRNA-1	260	28415.76	6.31	4112	0.127	Cytoplasm
	<i>FaPP2C14</i> 6	maker-Fvb5-2-snap-gene-94.19-mRNA-1	423	46961.12	8.89	3325	-0.183	Cytoplasm
	<i>FaPP2C14</i> 1	maker-Fvb5-1-augustus-gene-103.47-mRNA-1	329	35957.95	8.19	3894	-0.320	Cytoplasm
	<i>FaPP2C21</i> 0	maker-Fvb7-4-augustus-gene-9.78-mRNA-1	146	16180.22	4.62	3068	-0.070	Chloroplast
	<i>FaPP2C20</i> 1	maker-Fvb7-2-snap-gene-288.90-mRNA-1	429	46516.32	5.33	3084	-0.158	Chloroplast
	<i>FaPP2C19</i> 4	maker-Fvb7-1-augustus-gene-313.69-mRNA-1	163	18090.34	4.77	3029	-0.201	Chloroplast
	<i>FaPP2C19</i> 2	maker-Fvb7-1-augustus-gene-297.45-mRNA-1	163	18090.34	4.77	3091	-0.201	Chloroplast
G	<i>FaPP2C06</i>	augustus_masked-Fvb2-2-processed-gene-62.1-mRNA-1	1077	121856.4 4	5.97	10534	-0.355	Chloroplast
	<i>FaPP2C08</i>	augustus_masked-Fvb2-3-processed-gene-101.4-mRNA-1	1090	123460.0 9	5.89	10867	-0.376	Cytoplasm
	<i>FaPP2C83</i>	maker-Fvb2-4-augustus-gene-171.27-mRNA-1	1068	120968.2 2	5.89	10546	-0.381	Chloroplast
	<i>FaPP2C03</i>	augustus_masked-Fvb2-1-processed-gene-150.0-mRNA-1	1081	122667.3 3	5.85	10912	-0.356	Cytoplasm
	<i>FaPP2C17</i> 7	maker-Fvb6-3-snap-gene-162.52-mRNA-1	408	44810.62	5.07	7326	-0.389	Nuclear
	<i>FaPP2C16</i> 1	maker-Fvb6-1-snap-gene-166.61-mRNA-1	488	52853.24	5.39	7777	-0.574	Nuclear
	<i>FaPP2C22</i> 7	snap_masked-Fvb6-3-processed-gene-124.24-	101	10979.42	4.40	306	-0.044	Chloroplast

H	FaPP2C22 5	mRNA-1 snap_masked-Fvb6-1-processed-gene-130.27-	128	14128.99	4.59	1327	-0.227	Mitochondrial
		mRNA-1						
	FaPP2C87	maker-Fvb2-4-snap-gene-265.150-mRNA-1	540	60185.26	7.22	6075	-0.523	Nuclear
	FaPP2C71	maker-Fvb2-1-snap-gene-263.74-mRNA-1	530	58877.69	6.56	6110	-0.534	Nuclear
	FaPP2C21 9	snap_masked-Fvb2-4-processed-gene-265.51-	313	33831.60	4.93	4374	-0.312	Nuclear
	FaPP2C21 5	mRNA-1						
		snap_masked-Fvb2-1-processed-gene-264.38-	305	33035.78	5.00	4314	-0.298	Nuclear
	FaPP2C37	mRNA-1						
		augustus_masked-Fvb7-4-processed-gene-14.2-	350	38180.76	5.51	4008	-0.353	Chloroplast
	FaPP2C35	mRNA-1						
		augustus_masked-Fvb7-3-processed-gene-25.7-	358	38954.64	5.51	4158	-0.319	Chloroplast
	FaPP2C19 9	maker-Fvb7-2-augustus-gene-320.49-mRNA-1	360	39449.29	5.42	4088	-0.345	Chloroplast
	FaPP2C19 6	maker-Fvb7-2-augustus-gene-283.54-mRNA-1	360	39449.29	5.42	4178	-0.345	Chloroplast
	FaPP2C32	augustus_masked-Fvb7-1-						
		processed-gene-310.11-	309	33876.60	4.91	8458	-0.428	Cytoplasm
	FaPP2C31	mRNA-1						
		augustus_masked-Fvb7-1-processed-gene-294.13-	309	33786.47	4.90	4513	-0.414	Cytoplasm
	FaPP2C22 0	mRNA-1						
		snap_masked-Fvb4-1-processed-gene-26.17-	279	31614.20	9.27	2225	-0.563	Nuclear
	FaPP2C12 1	mRNA-1						
		maker-Fvb4-2-augustus-gene-228.29-mRNA-1	279	31514.98	9.02	2192	-0.565	Nuclear
	FaPP2C90	maker-Fvb3-1-augustus-gene-263.56-mRNA-1	1120	124246.1 2	5.35	6939	-0.246	Plasma membrane
	FaPP2C89	maker-Fvb3-1-augustus-gene-263.55-mRNA-1	1731	193107.6 2	5.80	9035	-0.449	Plasma membrane
	FaPP2C10 9	maker-Fvb3-4-augustus-gene-235.49-mRNA-1	1726	192685.6 3	5.73	9304	-0.482	Plasma membrane
	FaPP2C10 6	maker-Fvb3-3-snap-gene-40.51-mRNA-1	194	21490.07	5.04	969	-0.443	Cytoplasm
	FaPP2C14	maker-Fvb5-3-snap-gene-	303	33410.77	7.76	4625	-0.420	Chloroplast

	9	24.40-mRNA-1						
		augustus_masked-Fvb5-2-						
	<i>FaPP2C24</i>	processed-gene-232.1-mRNA-1	285	31393.23	8.31	4958	-0.571	Nuclear
		augustus_masked-Fvb5-4-						
	<i>FaPP2C26</i>	processed-gene-231.0-mRNA-1	282	30905.67	7.06	5151	-0.513	Chloroplast
	<i>FaPP2C14</i>	maker-Fvb5-1-augustus-gene-281.44-mRNA-1	282	30902.67	7.09	5112	-0.518	Nuclear
	4	maker-Fvb3-2-augustus-gene-109.29-mRNA-1	282	31337.52	6.07	4100	-0.426	Cytoplasm
	<i>FaPP2C95</i>	maker-Fvb3-3-augustus-gene-98.22-mRNA-1	282	31227.45	6.14	2807	-0.390	Cytoplasm
	4	maker-Fvb3-4-augustus-gene-192.19-mRNA-1	282	31332.55	5.90	2793	-0.408	Cytoplasm
	8	augustus_masked-Fvb3-1-						
	<i>FaPP2C11</i>	processed-gene-205.3-mRNA-1	282	31316.49	5.90	2781	-0.416	Cytoplasm
	<i>FaPP2C12</i>	maker-Fvb4-3-augustus-gene-169.27-mRNA-1	595	65995.05	6.36	6255	-0.320	Chloroplast
	8	maker-Fvb4-1-augustus-gene-113.38-mRNA-1	599	66359.20	5.76	6469	-0.351	Nuclear
	<i>FaPP2C11</i>	maker-Fvb4-2-augustus-gene-115.46-mRNA-1	574	63290.73	5.54	6169	-0.265	Chloroplast
	4	maker-Fvb4-4-augustus-gene-126.41-mRNA-1	572	63194.76	5.40	6506	-0.249	Chloroplast
	<i>FaPP2C13</i>	maker-Fvb6-3-snap-gene-81.57-mRNA-1	189	19855.38	4.58	2021	0.162	Vacuolar
	9	snap_masked-Fvb4-2-						
	<i>FaPP2C22</i>	processed-gene-174.21-mRNA-1	87	9255.33	4.70	2237	-0.074	Chloroplast
	1	maker-Fvb3-4-snap-gene-87.52-mRNA-1	229	24134.84	5.17	2178	0.467	Vacuolar
I	<i>FaPP2C11</i>	maker-Fvb2-3-augustus-gene-57.62-mRNA-1	432	46776.00	5.05	4633	-0.297	Chloroplast
	3	maker-Fvb2-4-augustus-gene-235.52-mRNA-1	432	46758.95	5.11	4228	-0.311	Chloroplast
	<i>FaPP2C86</i>	augustus_masked-Fvb2-1-						
	<i>FaPP2C05</i>	processed-gene-226.19-mRNA-1	432	46787.91	5.01	4229	-0.312	Chloroplast
		augustus_masked-Fvb4-3-						
	<i>FaPP2C17</i>	processed-gene-83.11-mRNA-1	447	48416.95	7.07	3673	-0.293	Chloroplast
	<i>FaPP2C22</i>	snap_masked-Fvb4-4-	483	52499.00	8.38	3383	-0.227	Chloroplast

J	3	processed-gene-51.45-mRNA-1						
	<i>FaPP2C11</i>	maker-Fvb4-1-augustus-gene-148.35-mRNA-1	1536	167720.4	8.46	15524	-0.075	Plasma membrane
	7			1				
	<i>FaPP2C17</i>	maker-Fvb6-3-augustus-gene-376.32-mRNA-1	389	41773.90	5.97	3779	-0.092	Chloroplast
	3	augustus_masked-Fvb6-4-						
	<i>FaPP2C30</i>	processed-gene-52.9-mRNA-1	397	42696.96	6.07	4335	-0.104	Chloroplast
	<i>FaPP2C15</i>	maker-Fvb6-1-augustus-gene-320.43-mRNA-1	396	42881.04	5.83	2856	-0.136	Nuclear
	7	augustus_masked-Fvb6-2-						
	<i>FaPP2C28</i>	processed-gene-234.0-mRNA-1	414	44548.11	6.07	3743	-0.087	Chloroplast
	<i>FaPP2C22</i>	snap_masked-Fvb4-3-						
	2	processed-gene-179.17-mRNA-1	422	45849.98	5.27	4141	-0.393	Nuclear
	<i>FaPP2C11</i>	maker-Fvb4-1-augustus-gene-122.28-mRNA-1	454	49649.47	5.77	4091	-0.361	Nuclear
	5							
	<i>FaPP2C11</i>	maker-Fvb4-2-augustus-gene-108.13-mRNA-1	421	45712.84	5.21	4267	-0.386	Nuclear
	8							
	<i>FaPP2C61</i>	maker-Fvb1-4-augustus-gene-148.26-mRNA-1	186	19850.38	4.54	2126	-0.052	Extracellular matrix
	<i>FaPP2C13</i>	maker-Fvb4-4-augustus-gene-118.24-mRNA-1	422	45950.14	5.36	4037	-0.404	Nuclear
	7							
	<i>FaPP2C60</i>	maker-Fvb1-4-augustus-gene-1.48-mRNA-1	1099	122000.8	4.88	6970	-0.205	Nuclear
				3				
	<i>FaPP2C43</i>	maker-Fvb1-1-augustus-gene-249.36-mRNA-1	1088	121134.4	4.80	6909	-0.248	Chloroplast
				5				
	<i>FaPP2C55</i>	maker-Fvb1-3-augustus-gene-27.37-mRNA-1	1099	122086.9	4.92	6806	-0.211	Chloroplast
				4				
	<i>FaPP2C53</i>	maker-Fvb1-2-snap-gene-16.71-mRNA-1	1080	119945.1	4.87	6781	-0.246	Chloroplast
				4				
	<i>FaPP2C49</i>	maker-Fvb1-2-augustus-gene-28.54-mRNA-1	1081	120098.4	4.94	6705	-0.240	Chloroplast
				5				
	<i>FaPP2C73</i>	maker-Fvb2-2-augustus-gene-11.31-mRNA-1	336	36437.18	5.09	1787	-0.137	Cytoplasm
	<i>FaPP2C70</i>	maker-Fvb2-1-augustus-gene-212.54-mRNA-1	336	36534.17	4.89	2108	-0.150	Nuclear
	<i>FaPP2C79</i>	maker-Fvb2-3-augustus-gene-68.63-mRNA-1	336	36623.22	4.91	2367	-0.192	Nuclear
		augustus_masked-Fvb2-4-						
	<i>FaPP2C10</i>	processed-gene-225.9-mRNA-1	335	36336.99	5.01	2478	-0.167	Nuclear

<i>FaPP2C14</i> 0	maker-Fvb4-4-snap-gene- 100.57-mRNA-1	1065	117371.3 8	5.75	8628	-0.205	Chloroplast
<i>FaPP2C12</i> 5	maker-Fvb4-2-snap-gene- 90.46-mRNA-1	807	88722.82	5.52	7278	-0.200	Chloroplast
<i>FaPP2C13</i> 5	maker-Fvb4-3-snap-gene- 198.55-mRNA-1	1079	118956.9 1	5.77	9983	-0.244	Chloroplast
<i>FaPP2C13</i> 4	maker-Fvb4-3-snap-gene- 133.59-mRNA-1	1073	118424.4 1	5.77	8428	-0.234	Chloroplast
<i>FaPP2C15</i> 8	maker-Fvb6-1-augustus- gene-320.50-mRNA-1	376	41954.43	5.76	3773	-0.367	Nuclear
<i>FaPP2C18</i> 5	maker-Fvb6-4-augustus- gene-52.28-mRNA-1	376	41873.46	5.76	3427	-0.328	Nuclear
<i>FaPP2C17</i> 4	maker-Fvb6-3-augustus- gene-377.38-mRNA-1	240	26639.29	6.11	2508	-0.297	Chloroplast
<i>FaPP2C29</i>	augustus_masked-Fvb6-2- processed-gene-234.13- mRNA-1	752	87386.90	6.53	6615	-0.918	Nuclear
<i>FaPP2C17</i> 5	maker-Fvb6-3-augustus- gene-434.28-mRNA-1	453	50346.30	5.00	2269	-0.519	Cytoplasm
<i>FaPP2C17</i> 2	maker-Fvb6-3-augustus- gene-354.31-mRNA-1	453	50450.37	5.00	2373	-0.544	Chloroplast
<i>FaPP2C18</i> 7	maker-Fvb6-4-snap-gene- 75.37-mRNA-1	515	57228.39	5.40	9319	-0.466	Nuclear
<i>FaPP2C15</i> 6	maker-Fvb6-1-augustus- gene-300.38-mRNA-1	453	50273.16	4.96	2699	-0.532	Chloroplast
<i>FaPP2C18</i> 4	maker-Fvb6-4-augustus- gene-322.34-mRNA-1	471	52126.43	5.21	4435	-0.446	Chloroplast
<i>FaPP2C16</i> 7	maker-Fvb6-2-augustus- gene-323.28-mRNA-1	473	52419.81	5.28	3533	-0.454	Chloroplast
<i>FaPP2C16</i> 0	maker-Fvb6-1-augustus- gene-54.55-mRNA-1	473	52333.71	5.47	3414	-0.452	Chloroplast
<i>FaPP2C17</i> 6	maker-Fvb6-3-augustus- gene-47.28-mRNA-1	473	52428.79	5.35	3828	-0.464	Chloroplast
<i>FaPP2C10</i> 3	maker-Fvb3-3-augustus- gene-268.37-mRNA-1	534	58808.28	5.00	5575	-0.375	Nuclear
<i>FaPP2C14</i>	augustus_masked-Fvb3-2- processed-gene-288.4- mRNA-1	534	58595.84	5.00	4098	-0.399	Nuclear
<i>FaPP2C12</i>	augustus_masked-Fvb3-1- processed-gene-29.2- mRNA-1	534	58784.16	5.05	4026	-0.420	Nuclear
<i>FaPP2C18</i> 2	maker-Fvb6-4-augustus- gene-25.60-mRNA-1	496	54655.27	5.39	4207	-0.445	Chloroplast
<i>FaPP2C22</i>	snap_masked-Fvb6-3-	496	54608.39	5.33	5598	-0.417	Chloroplast

	8	processed-gene-427.37-mRNA-1						
	<i>FaPP2C16</i>	maker-Fvb6-2-augustus-gene-269.56-mRNA-1	497	54676.21	5.21	5263	-0.451	Chloroplast
	5							
	<i>FaPP2C15</i>	maker-Fvb6-1-augustus-gene-356.68-mRNA-1	497	54618.17	5.26	4869	-0.440	Chloroplast
	9							
	<i>FaPP2C13</i>	maker-Fvb4-3-augustus-gene-69.40-mRNA-1	424	45650.97	7.03	5017	-0.113	Cytoplasm
	0							
		augustus_masked-Fvb4-3-processed-gene-66.7-mRNA-1	424	45660.99	7.56	5227	-0.117	Cytoplasm
	<i>FaPP2C16</i>							
		augustus_masked-Fvb4-1-processed-gene-92.9-mRNA-1	422	45445.87	8.45	5142	-0.133	Cytoplasm
	<i>FaPP2C15</i>							
		augustus_masked-Fvb4-4-processed-gene-155.3-mRNA-1	430	46458.91	7.56	6029	-0.137	Cytoplasm
	<i>FaPP2C18</i>							
		maker-Fvb4-2-augustus-gene-143.22-mRNA-1	434	46718.08	7.04	5121	-0.122	Cytoplasm
	0							
	<i>FaPP2C96</i>	maker-Fvb3-2-augustus-gene-157.40-mRNA-1	302	34050.50	8.59	1960	-0.614	Nuclear
	<i>FaPP2C94</i>	maker-Fvb3-1-snap-gene-130.52-mRNA-1	201	21685.40	5.95	1577	-0.203	Chloroplast
	<i>FaPP2C10</i>	maker-Fvb3-4-augustus-gene-155.33-mRNA-1	409	46286.74	5.27	7995	-0.601	Nuclear
	7							
		augustus_masked-Fvb3-2-processed-gene-157.5-mRNA-1	127	13562.03	4.44	880	-0.176	Cytoplasm
	<i>FaPP2C13</i>							
		maker-Fvb3-1-augustus-gene-149.29-mRNA-1	312	34952.33	5.04	2141	-0.464	Chloroplast
	<i>FaPP2C88</i>							
		maker-Fvb3-3-snap-gene-134.38-mRNA-1	406	45763.47	5.62	2314	-0.465	Endoplasmic reticulum
K	5							
	<i>FaPP2C98</i>	maker-Fvb3-2-augustus-gene-259.23-mRNA-1	397	43796.44	5.39	2692	-0.401	Nuclear
	<i>FaPP2C92</i>	maker-Fvb3-1-augustus-gene-54.22-mRNA-1	397	43687.30	5.48	2133	-0.416	Nuclear
	<i>FaPP2C10</i>	maker-Fvb3-3-augustus-gene-242.27-mRNA-1	397	43544.15	5.38	2342	-0.387	Nuclear
	1							
	<i>FaPP2C11</i>	maker-Fvb3-4-snap-gene-58.51-mRNA-1	367	40197.59	5.54	1697	-0.379	Nuclear
	2							
	<i>FaPP2C20</i>	maker-Fvb7-3-augustus-gene-69.48-mRNA-1	422	45714.71	5.93	2490	-0.354	Cytoplasm
	3							
	<i>FaPP2C19</i>	maker-Fvb7-1-augustus-gene-286.66-mRNA-1	422	45540.45	5.93	2413	-0.355	Cytoplasm
	0							

<i>FaPP2C19</i> 7	maker-Fvb7-2-augustus- gene-289.60-mRNA-1	422	45401.32	6.13	2455	-0.356	Chloroplast
<i>FaPP2C19</i> 5	maker-Fvb7-2-augustus- gene-231.42-mRNA-1	422	45346.19	5.86	2623	-0.359	Chloroplast
<i>FaPP2C20</i> 6	maker-Fvb7-4-augustus- gene-54.63-mRNA-1	422	45567.51	5.86	2490	-0.340	Chloroplast
<i>FaPP2C20</i> 7	maker-Fvb7-4-augustus- gene-61.62-mRNA-1	422	45390.40	6.13	2550	-0.323	Chloroplast
<i>FaPP2C34</i>	augustus_masked-Fvb7-2- processed-gene-286.2- mRNA-1	389	42658.22	5.70	2007	-0.315	Nuclear
<i>FaPP2C20</i> 2	maker-Fvb7-3-augustus- gene-22.46-mRNA-1	356	39528.83	8.20	1836	-0.381	Nuclear
<i>FaPP2C20</i> 5	maker-Fvb7-4-augustus- gene-11.33-mRNA-1	387	42714.54	7.58	2246	-0.336	Nuclear
<i>FaPP2C19</i> 3	maker-Fvb7-1-augustus- gene-312.22-mRNA-1	389	42702.21	5.86	2110	-0.306	Nuclear
<i>FaPP2C19</i> 1	maker-Fvb7-1-augustus- gene-296.38-mRNA-1	387	42416.90	5.86	2087	-0.288	Nuclear
<i>FaPP2C21</i>	augustus_masked-Fvb5-1- processed-gene-32.19- mRNA-1	350	37351.79	5.15	1053	-0.252	Chloroplast
<i>FaPP2C20</i>	augustus_masked-Fvb5-1- processed-gene-28.2- mRNA-1	350	37466.98	5.25	1053	-0.254	Chloroplast
<i>FaPP2C23</i>	augustus_masked-Fvb5-2- processed-gene-22.5- mRNA-1	348	37285.72	5.23	1047	-0.250	Chloroplast
<i>FaPP2C25</i>	augustus_masked-Fvb5-3- processed-gene-250.14- mRNA-1	276	29581.96	5.55	1042	-0.364	Nuclear
<i>FaPP2C27</i>	augustus_masked-Fvb5-4- processed-gene-25.16- mRNA-1	349	37358.81	5.16	1050	-0.228	Chloroplast
<i>FaPP2C66</i>	maker-Fvb1-4-snap-gene- 25.58-mRNA-1	479	52775.10	5.77	4240	-0.129	Chloroplast
<i>FaPP2C42</i>	maker-Fvb1-1-augustus- gene-248.49-mRNA-1	371	40542.64	5.28	4638	-0.289	Chloroplast
<i>FaPP2C48</i>	maker-Fvb1-2-augustus- gene-27.54-mRNA-1	411	45464.25	5.45	4665	-0.196	Chloroplast
<i>FaPP2C01</i>	augustus_masked-Fvb1-3- processed-gene-0.8- mRNA-1	291	31958.37	5.18	1287	-0.212	Chloroplast
<i>FaPP2C02</i>	augustus_masked-Fvb1-3-	144	15591.11	4.83	1299	-0.585	Nuclear

	processed-gene-28.9- mRNA-1						
<i>FaPP2C63</i>	maker-Fvb1-4-augustus- gene-34.51-mRNA-1	471	51614.24	5.31	5267	-0.331	Chloroplast
<i>FaPP2C52</i>	maker-Fvb1-2-augustus- gene-8.49-mRNA-1	473	51715.34	5.32	2693	-0.310	Chloroplast
<i>FaPP2C41</i>	maker-Fvb1-1-augustus- gene-239.61-mRNA-1	473	51727.36	5.37	2952	-0.296	Chloroplast
<i>FaPP2C56</i>	maker-Fvb1-3-augustus- gene-38.41-mRNA-1	475	51949.54	5.31	3292	-0.313	Chloroplast
<i>FaPP2C50</i>	maker-Fvb1-2-augustus- gene-57.60-mRNA-1	473	51745.35	5.32	2710	-0.317	Chloroplast
<i>FaPP2C69</i>	maker-Fvb2-1-augustus- gene-208.33-mRNA-1	548	59356.85	4.63	4443	-0.162	Chloroplast
<i>FaPP2C85</i>	maker-Fvb2-4-augustus- gene-222.40-mRNA-1	548	59318.69	4.59	4439	-0.187	Chloroplast
<i>FaPP2C76</i>	maker-Fvb2-3-augustus- gene-0.25-mRNA-1	547	59173.53	4.59	4464	-0.196	Chloroplast
<i>FaPP2C74</i>	maker-Fvb2-2-augustus- gene-15.47-mRNA-1	548	59331.77	4.59	4445	-0.192	Chloroplast
<i>FaPP2C13</i> 2	maker-Fvb4-3-augustus- gene-91.56-mRNA-1	1254	140174.7 8	6.46	5150	-0.217	Golgi apparatus
<i>FaPP2C13</i> 1	maker-Fvb4-3-augustus- gene-91.47-mRNA-1	534	59803.09	5.81	1897	-0.074	Chloroplast
<i>FaPP2C15</i> 3	maker-Fvb6-1-augustus- gene-123.54-mRNA-1	552	59373.36	4.90	3715	-0.082	Extracellular matrix
<i>FaPP2C16</i> 9	maker-Fvb6-3-augustus- gene-118.44-mRNA-1	552	59584.67	4.91	4370	-0.091	Chloroplast
<i>FaPP2C18</i> 3	maker-Fvb6-4-augustus- gene-255.31-mRNA-1	552	59678.76	4.97	3513	-0.094	Chloroplast
<i>FaPP2C16</i> 6	maker-Fvb6-2-augustus- gene-27.57-mRNA-1	552	59466.45	4.87	3731	-0.083	Chloroplast