

**Supplemental Table 1.-** Hybridization intensities and expression ratios of flavanone 3-hydroxylase cDNAs detected in microarray experiment comparing flower bud RNAs of isogenic lines of the *Wp* locus in soybean.

Clone ID <sup>a</sup>	GenBank Acc. No.	Intensities <sup>b</sup>				Expression Ratios			Functional Annotation
		Replicate 1		Replicate 2		Line 1/Line 2			
		Line 1 ( <i>Wp/Wp</i> )	Line 2 ( <i>wp/wp</i> )	Line 1 ( <i>Wp/Wp</i> )	Line 2 ( <i>wp/wp</i> )	Rep 1	Rep 2	Ave <sup>c</sup>	
		Cy 5	Cy3	Cy3	Cy5				
Gm-c1019-2646	AW277481	5416	954	2684	1017	5.677	2.639	4.110	Flavanone 3-hydroxylase
Gm-c1019-2646	AW277481	3943	795	4580	1422	4.960	3.221	3.844	Flavanone 3-hydroxylase
Gm-c1019-2646	AW277481	3835	819	4867	1725	4.683	2.821	3.421	Flavanone 3-hydroxylase
Gm-c1019-2646	AW277481	3886	880	4155	1140	4.416	3.645	3.981	Flavanone 3-hydroxylase
Gm-c1019-2646	AW277481	4108	977	5216	2169	4.205	2.400	2.964	Flavanone 3-hydroxylase
Gm-c1012-683	AI900038	8331	2163	2976	992	3.852	3.000	3.584	Flavanone 3-hydroxylase
Gm-c1012-683	AI900038	8206	2156	5275	2494	3.806	2.115	2.899	Flavanone 3-hydroxylase
Gm-c1012-683	AI900038	4821	1282	3243	1473	3.761	2.202	2.927	Flavanone 3-hydroxylase
Gm-c1019-2646	AW277481	4091	1200	3531	141	3.409	d	5.684	Flavanone 3-hydroxylase
Gm-c1012-683	AI900038	6121	1822	3747	986	3.359	3.800	3.514	Flavanone 3-hydroxylase
Gm-c1012-683	AI900038	5204	1614	3007	1295	3.224	2.322	2.823	Flavanone 3-hydroxylase
Gm-c1012-683	AI900038	6226	2390	5599	1379	2.605	4.060	3.137	Flavanone 3-hydroxylase
Gm-c1019-2646	AW277481	3977	906	2461	1339	4.390	1.838	2.868	Flavanone 3-hydroxylase
Gm-c1019-2646	AW277481	4011	955	2640	731	4.200	3.611	4.200	Flavanone 3-hydroxylase
Gm-c1012-683	AI900038	5979	2004	2000	1046	2.984	1.912	2.616	Flavanone 3-hydroxylase
Gm-c1012-683	AI900038	4102	1409	3210	2279	2.911	1.409	1.983	Flavanone 3-hydroxylase
<b>Mean ratio</b>						<b>3.902</b>	<b>2.733</b>	<b>3.409</b>	

- (a) Both clone IDs represent the same F3H sequence except Gm-c1012-683 is 60 bases longer at the 5' end than the Gm-c-1019-2646.
- (b) Intensities after background subtraction and global normalization between replicates and within each slide are shown.
- (c) The average ratio of both microarray slides is calculated as follows:  

$$\frac{(\text{Line 1 Rep 1 intensity} + \text{Line 1 Rep2 intensity})}{(\text{Line 2 Rep 1 intensity} + \text{Line2 Rep 2 intensity})}$$
- (d) Aberrant expression ratio eliminated from the analysis.