

**S9 Table:** List of co-expression genes in *Arabidopsis*.

S.No.	Locus1		Locus2		MR (All)	MR (Tissue)	MR (Abiotic)	MR (Biotic)	MR (Hormone)
43	At1g72390		At3g10070	TAF12	1056.8	3177.3	450.3	3261.2	2811.9
44	At4g16420	ADA2B	At4g31720	TAF10	1075.7	2188.5	4541.6	2344.7	17.4
45	At1g54140	TAF9	At2g17930	TRA1A	1140.2	211.7	21441.6	14897.3	640
46	At1g72390		At5g10790	UBP22	1147	3321.4	584.1	3348.9	9222.1
47	At4g16420	ADA2B	At5g58575		1175.3	7785.6	920.7	1499.3	1762.8
48	At4g29790		At5g58575		1195.5	624.8	9594.9	1291	1966.4
49	At1g04950	TAF6	At1g72390		1331.1	2755.2	3837.1	4852.6	397.8
50	At2g13370	CHR5	At2g17930	TRA1A	1438.6	5119.3	7426.7	1606.5	133.9
51	At1g02680	TAF13	At1g17440	TAF12B	1490.5	1044.8	11102.1	4385.5	1770.7
52	At1g54140	TAF9	At3g10070	TAF12	1501	1855.4	6495.3	18679.8	1960.3
53	At1g02680	TAF13	At3g54610	GCN5	1517.4	512	3250.3	4148.3	13157.9
54	At1g17440	TAF12B	At1g32750	HAF01	1527	1880.8	8200.7	821.2	2976.9
55	At1g04950	TAF6	At3g54610	GCN5	1532.7	683.2	571.5	4620.3	10099.1
56	At1g04950	TAF6	At5g58575		1561.7	14556	490.7	964.7	2144.1
57	At1g04950	TAF6	At1g54360	TAF6B4	1596.4	2707	4842.9	3184.6	1643.6
58	At3g10070	TAF12	At3g54610	GCN5	1633.8	2121.7	7467.6	4182.5	1139.2
59	At3g10070	TAF12	At5g10790	UBP22	1762.1	13780	62.4	5011.8	13784.9
60	At2g14850		At4g29790		1771.9	441.9	1964.2	10415.7	19140
61	At1g54140	TAF9	At4g16420	ADA2B	1889.8	1243.2	4331.1	1841.1	1340.9
62	At2g17930	TRA1A	At3g54610	GCN5	2065.7	338.9	6722.4	2479.2	11210.9
63	At1g54140	TAF9	At1g72390		2070.5	3967.8	3070.9	5405.9	316.5
64	At3g54610	GCN5	At4g16420	ADA2B	2091.4	1710.1	5018.6	398.6	10305.8
65	At1g04950	TAF6	At1g32750	HAF01	2130.9	3833.8	3510.5	2725.4	19705.3
66	At1g02680	TAF13	At1g54360	TAF6B4	2202.6	2241.5	9594.7	2007.3	648.5
67	At2g17930	TRA1A	At4g31720	TAF10	2218.9	2717.3	13000.1	2358.4	357
68	At1g54360	TAF6B4	At3g27100		2373.5	3580	7606.3	489.4	1742.5
69	At1g54140	TAF9	At2g14850		2456.3	3630.5	6181.6	2305.5	12267.7
70	At2g17930	TRA1A	At3g10070	TAF12	2519.8	2225.7	2472.4	4844	5244
71	At1g02680	TAF13	At4g29790		2802.6	7589.2	3958	3889.1	556
72	At1g04950	TAF6	At4g29790		2965	11547.5	4488.5	9087.8	2271.8
73	At3g27100		At4g16420	ADA2B	3007.9	6549.6	3131.6	1428.2	6145.5
74	At2g13370	CHR5	At5g10790	UBP22	3164	1599.2	1813.4	5161.7	21397.9
75	At1g54140	TAF9	At1g54360	TAF6B4	3230.7	2291	4121.9	18659	1565.3
76	At4g16420	ADA2B	At5g40550		3244.4	2813.1	4415.3	8781.8	2825.6
77	At2g13370	CHR5	At5g58575		3248.4	3902.7	8219.8	1425.2	17800.4
78	At1g72390		At5g58575		3349.1	2736.4	7775.9	2403.8	13506.4
79	At1g02680	TAF13	At5g58575		3376.7	11474.3	699.6	104.4	188.1
80	At1g17440	TAF12B	At1g54360	TAF6B4	3456.8	4046.6	19058.5	750.4	1572.6
81	At3g10070	TAF12	At4g16420	ADA2B	3572.4	1738.7	1591.7	6684.9	8094.8
82	At1g17440	TAF12B	At3g10070	TAF12	3641.8	10591.4	1157.1	5715.2	2010.7
83	At1g17440	TAF12B	At5g10790	UBP22	3642.8	12151.9	1268.1	3072.4	21406.2
84	At2g13370	CHR5	At2g14850		3704.1	6221.4	465.6	2622.7	17498.2
85	At2g17930	TRA1A	At5g40550		3718.6	6512	1506.7	2875.2	13551.1
86	At3g10070	TAF12	At4g31720	TAF10	3746.7	2122.1	19512.2	6958	7126.3
87	At2g13370	CHR5	At3g10070	TAF12	3747.6	7678.1	884	2512	3531.5
88	At2g14850		At3g54610	GCN5	3748.2	4818.3	3790.2	3252.1	14056.6
89	At1g72390		At4g31720	TAF10	3755.1	5482.3	10768.4	5151.6	346.8
90	At4g31720	TAF10	At5g58575		3779.4	13586.6	2267.1	7.8	6255.3

91	At1g54140	TAF9	At3g27100		3807.9	2548.2	6256.2	14730.4	7072.7
92	At4g29790		At5g10790	UBP22	3819.5	1548.8	10561	3818.8	6219.9
93	At1g72390		At5g40550		3836.1	7835.7	1799.8	11166.8	15171.3
94	At2g14850		At2g17930	TRA1A	3838.9	1747	21300.7	2975.6	10137.9
95	At1g32750	HAF01	At5g40550		3890.1	8313.9	1934.6	4921.5	5648.2
96	At2g13370	CHR5	At3g27100		3919.3	10181.7	6059.9	335	7323
97	At2g17930	TRA1A	At4g29790		3954.2	7415.1	15071	3098.7	1674.3
98	At2g17930	TRA1A	At3g27100		3960.2	4267.6	14180.2	305.4	9076.8
99	At3g27100		At5g58575		3979.9	12609.9	2263.1	851.1	4984.8
100	At1g04950	TAF6	At1g54140	TAF9	4021.8	117.8	18025.9	18613.8	2393.9
101	At1g54140	TAF9	At5g40550		4262.7	4588.1	9902.9	10823.8	18280.6
102	At1g54360	TAF6B4	At4g31720	TAF10	4305.9	8233.5	4415.6	2749.6	618.4
103	At1g02680	TAF13	At3g10070	TAF12	4312.3	3202.5	10864.3	2754.9	6056.2
104	At1g02680	TAF13	At2g13370	CHR5	4321.1	12073.2	7769.8	375	5097.2
105	At3g27100		At3g54610	GCN5	4357.1	1671.7	6430.5	1328.9	14953.4
106	At3g54610	GCN5	At4g31720	TAF10	4376.7	2498.7	4974.5	9497.3	14250.4
107	At1g17440	TAF12B	At3g54610	GCN5	4486.7	5489.7	15910.5	2894.9	5267.2
108	At1g72390		At3g54610	GCN5	4544.8	6174.7	7313.5	2093.4	4155.4
109	At5g10790	UBP22	At5g58575		4648.6	665	4898	10566	7433.2
110	At1g32750	HAF01	At3g10070	TAF12	4691.2	5010.4	760.6	3436.1	11187.5
111	At1g32750	HAF01	At3g54610	GCN5	4708.6	6331.9	2130.6	4589.1	3945
112	At1g17440	TAF12B	At1g54140	TAF9	4794.9	6853.8	15122.8	4872.4	295.7
113	At1g04950	TAF6	At5g40550		4814.8	3885.4	5170.3	4267.5	3947.8
114	At1g54360	TAF6B4	At4g16420	ADA2B	4967.6	6703.3	12344.9	5335.5	1138.5
115	At4g16420	ADA2B	At5g10790	UBP22	4980.1	10884.9	2305	5982.3	13056.8
116	At2g14850		At3g10070	TAF12	5225	7049.9	9878.4	8468.3	9665.9
117	At1g32750	HAF01	At1g54140	TAF9	5238.2	3994.8	9817	10433	10915
118	At1g32750	HAF01	At3g27100		5375	6006	14507.1	2866.5	4446.8
119	At2g13370	CHR5	At3g54610	GCN5	5532.8	10860	2476.2	2348.9	5965.1
120	At1g32750	HAF01	At5g10790	UBP22	5771.3	7107.8	5109.4	9222.4	16902.4
121	At1g32750	HAF01	At4g31720	TAF10	5843.1	4663.6	7825.5	3109.6	17931.9
122	At1g04950	TAF6	At2g13370	CHR5	5853.1	11766.7	11588.2	5274.1	12853.7
123	At1g04950	TAF6	At3g10070	TAF12	5885.1	929.8	13156.2	4463.3	7600.5
124	At1g04950	TAF6	At2g14850		5906.7	3019.7	12191.5	7894.6	14107.2
125	At1g54360	TAF6B4	At3g10070	TAF12	5978.7	7297.9	6413.5	1551.3	4132.7
126	At4g31720	TAF10	At5g40550		6084.3	1887.7	10971.6	19028.5	16785.9
127	At2g14850		At3g27100		6694.2	7468.7	8202.4	4007.6	9894.9
128	At1g04950	TAF6	At3g27100		6830.1	8716.5	5061.9	2360.5	19061.3
129	At2g17930	TRA1A	At5g58575		6981.2	13336.8	852.4	1867.3	18378.1
130	At1g32750	HAF01	At1g54360	TAF6B4	7101.5	16103.4	859.9	3823.3	5452.1
131	At3g54610	GCN5	At5g40550		7163.9	5889.1	8837.1	11196.4	18156.1
132	At2g14850		At5g58575		7505.5	3229.1	12156.3	2887.3	15309.9
133	At2g13370	CHR5	At4g31720	TAF10	7741.2	10675.9	22128.3	1024.6	3271.2
134	At1g04950	TAF6	At1g17440	TAF12B	7883.9	5410	18056.6	10341.4	6445.2
135	At1g02680	TAF13	At5g40550		7935.9	9559.2	10303.4	8254.3	1542.9
136	At2g14850		At4g31720	TAF10	8412.4	4027.9	16101.9	2895.3	15955.6
137	At3g27100		At5g40550		8841.5	8222.9	11837.2	11362.5	5388.4
138	At1g54360	TAF6B4	At5g40550		8906.4	14125.6	2284.8	5117.6	7160.5
139	At3g27100		At4g29790		9265.8	12560.3	8933.9	6493.8	17394.1
140	At5g40550		At5g58575		9360.1	10485.6	2129.9	13255.5	11896.7
141	At1g17440	TAF12B	At5g58575		9689.1	6644.9	10859.3	5542.1	12085.3
142	At3g54610	GCN5	At4g29790		9696.7	14439.2	7849.8	10191.6	3400.9

143	<b>At4g29790</b>		<b>At4g31720</b>	TAF10	9793	12587	13821.5	7385.3	3094.4
144	<b>At1g17440</b>	TAF12B	<b>At3g27100</b>		9873.5	9356.2	17193.1	3086.9	14415.6
145	<b>At1g72390</b>		<b>At3g27100</b>		10071.3	9812.6	14895	2043	19734.2
146	<b>At2g13370</b>	CHR5	<b>At5g40550</b>		10346.8	3931	13280	12883.5	19281.8
147	<b>At2g17930</b>	TRA1A	<b>At5g10790</b>	UBP22	10771.3	16800.7	5130.6	6095.1	18944.2
148	<b>At1g54360</b>	TAF6B4	<b>At1g72390</b>		10773	15791.2	10724.9	3134.8	3148.2
149	<b>At1g54360</b>	TAF6B4	<b>At2g13370</b>	CHR5	11099.4	19238.6	16694.5	2442.2	1993.6
150	<b>At3g27100</b>		<b>At5g10790</b>	UBP22	11165.1	13797.3	11742.4	2310.8	13092.8
151	<b>At1g54140</b>	TAF9	<b>At2g13370</b>	CHR5	11905.2	15111.4	18873.3	11297.7	964.3
152	<b>At1g54140</b>	TAF9	<b>At4g29790</b>		12772.1	14337.5	14951.3	2654	1778.2
153	<b>At2g14850</b>		<b>At5g10790</b>	UBP22	13031.3	10619.5	11821.6	16446.8	19427.3
154	<b>At2g14850</b>		<b>At5g40550</b>		13228	13661.5	17455.6	11868.5	547.2
155	<b>At1g54360</b>	TAF6B4	<b>At2g14850</b>		14298.8	12267.2	18444	7935	11624.4
156	<b>At3g10070</b>	TAF12	<b>At4g29790</b>		14723.6	11886.2	17077.6	20380.2	3455.6
157	<b>At1g17440</b>	TAF12B	<b>At5g40550</b>		14776.6	20624.4	9277.2	6549.1	17356.5
158	<b>At1g54360</b>	TAF6B4	<b>At5g58575</b>		14937.3	19917.6	6379.5	3471.5	12674.1
159	<b>At3g10070</b>	TAF12	<b>At3g27100</b>		15303.1	12231	19894	3322.3	18092.3
160	<b>At4g29790</b>		<b>At5g40550</b>		15569.4	12957	15340.7	11427.4	13896.7
161	<b>At1g02680</b>	TAF13	<b>At5g10790</b>	UBP22	15648.4	18698.6	15654.5	5465.7	15914.5
162	<b>At1g17440</b>	TAF12B	<b>At4g31720</b>	TAF10	16344.4	15403.8	22616.2	7331.4	1717.3
163	<b>At1g54140</b>	TAF9	<b>At5g10790</b>	UBP22	16470.6	20083	10932	13833.9	15515.4
164	<b>At1g54360</b>	TAF6B4	<b>At5g10790</b>	UBP22	17315	21010.3	13178.6	2149.4	22712
165	<b>At1g04950</b>	TAF6	<b>At5g10790</b>	UBP22	17328.7	19247	14768.1	11680.9	13632.9
166	<b>At3g54610</b>	GCN5	<b>At5g10790</b>	UBP22	17670	20398.3	18611.2	4380	5140.5
167	<b>At1g54360</b>	TAF6B4	<b>At4g29790</b>		18137.7	19283.2	21084.6	11704.1	8997.6
168	<b>At3g54610</b>	GCN5	<b>At5g58575</b>		18783.1	19223.5	6420	5987.1	19339.3
169	<b>At1g54140</b>	TAF9	<b>At5g58575</b>		19236.4	15966.1	15601.9	15513.4	14085.2
170	<b>At3g10070</b>	TAF12	<b>At5g58575</b>		19725.7	16208.3	5683.2	9919.2	17563
171	<b>At4g31720</b>	TAF10	<b>At5g10790</b>	UBP22	20462.2	16238.5	21426.9	14806.4	19161.3