Supplementary Table S1: Results of the Bayesian analysis for pairwise differential expression among cytotypes (MCMC.qpcr package) in the leaf tissue. The *p* values of each candidate reference gene and pairwise comparison are shown.

ACT7

pvalue	difference 2X	4X	6X	12X
2X	NA	0.0859	1.373	0.2
4X	0.939	NA	1.287	0.1
6X	0.207	0.2623	NA	-1.2
12X	0.847	0.9119	0.31	NA

SAMDC

pvalue	difference 2X	4X	6X	12X
2X	NA	0.66	-1.5	-1.212
4X	0.558	NA	-2.1	-1.869
6X	0.186	0.06	NA	0.265
12X	0.278	0.11	0.81	NA

EF1a

pvalue	difference 2X	4X	6X	12X
2X	NA	-0.228	-2.03	-5.1
4X	0.876	NA	-1.8	-4.9
6X	0.162	0.2362	NA	-3.1
12X	6E-04	0.0012	0.042	NA

TIF5A

pvalue	difference 2X	4X	6X	12X
2X	NA	0.04	-1.9	-1.311
4X	0.971	NA	-1.9	-1.35
6X	0.069	0.07	NA	0.558
12X	0.193	0.21	0.6	NA

GAPDH

pvalue	difference 2X	4X	6X	12X
2X	NA	2.1637	3.161	3.5
4X	0.063	NA	0.997	1.3
6X	0.004	0.4001	NA	0.3
12X	0.002	0.2536	0.764	NA

TIP41

pvalue	difference 2X	4X	6X	12X
2X	NA	0.11	-1.8	-1.577
4X	0.915	NA	-1.9	-1.691
6X	0.081	0.08	NA	0.251
12X	0.137	0.12	0.82	NA

H3.1

pvalue	difference 2X	4X	6X	12X
2X	NA	1.6081	-1.13	-1.4
4X	0.121	NA	-2.74	-3
6X	0.258	0.0096	NA	-0.3
12X	0.174	0.0069	0.811	NA

TUA

pvalue	difference 2X	4X	6X	12X
2X	NA	-1.23	1.99	0.557
4X	0.488	NA	3.22	1.787
6X	0.261	0.08	NA	-1.437
12X	0.766	0.35	0.44	NA

H3.2

pvalue	difference 2X	4X	6X	12X
2X	NA	5.4235	2.391	2.6
4X	0.005	NA	-3.03	-2.8
6X	0.203	0.1132	NA	0.2
12X	0.173	0.1395	0.916	NA

TUB

pvalue	difference 2X	4X	6X	12X
2X	NA	0.4	2.5	1.967
4X	0.753	NA	2.1	1.565
6X	0.038	0.11	NA	-0.536
12X	0.127	0.24	0.68	NA

PP2A

pvalue	difference 2X	4X	6X	12X
2X	NA	-0.028	-1.34	-1.1
4X	0.978	NA	-1.31	-1
6X	0.177	0.1979	NA	0.3
12X	0.311	0.3475	0.792	NA

UBQ10

pvalue	difference 2X	4X	6X	12X
2X	NA	-3.32	-2.2	-1.12
4X	0.029	NA	1.1	2.201
6X	0.141	0.46	NA	1.098
12X	0.481	0.15	0.48	NA

PR13S

pvalue	difference 2X	4X	6X	12X
2X	NA	1.1517	-1.45	-1.1
4X	0.266	NA	-2.61	-2.2
6X	0.151	0.0126	NA	0.4
12X	0.308	0.039	0.721	NA

UBQ3

pvalue	difference 2X	4X	6X	12X
2X	NA	0.84	-2.3	-1.764
4X	0.409	NA	-3.1	-2.604
6X	0.026	0.022	NA	0.489
12X	0.084	0.02	0.64	NA

Supplementary Table S2: Results of the Bayesian analysis for pairwise differential expression among cytotypes (MCMC.qpcr package) in the petal tissue. The *p* values of each candidate reference gene and pairwise comparison are shown.

ACT7

pvalue	difference	2X	4X	6X	12X
	2X	NA	0.734	-1.79	-0.22
	4X	0.742	NA	-2.52	-0.95
	6X	0.439	0.265	NA	1.573
	12X	0.923	0.669	0.476	NA

SAMDC

pvalue	difference	2X	4X	6X	12X
	2X	NA	0.4899	-2.33	-1.7
	4X	0.823	NA	-2.82	-2.2
	6X	0.313	0.2144	NA	0.6
	12X	0.427	0.3164	0.79	NA

EF1a

pvalue	difference	2X	4X	6X	12X
	2X	NA	-1.23	-3.95	-3.15
	4X	0.584	NA	-2.72	-1.92
	6X	0.088	0.23	NA	0.799
	12X	0.158	0.389	0.718	NA

TIF5A

pvalue	difference	2X	4X	6X	12X
	2X	NA	0.6389	-2.11	-0.8
	4X	0.772	NA	-2.74	-1.4
	6X	0.363	0.2242	NA	1.33
	12X	0.724	0.5188	0.54	NA

GAPDH

pvalue	difference	2X	4X	6X	12X
	2X	NA	0.574	-2.64	-1.46
	4X	0.799	NA	-3.22	-2.03
	6X	0.257	0.16	NA	1.186
	12X	0.515	0.368	0.596	NA

TIP41

pvalue	difference	2X	4X	6X	12X
	2X	NA	0.5115	-3.51	-1.3
	4X	0.818	NA	-4.02	-1.9
	6X	0.138	0.0751	NA	2.17
	12X	0.543	0.4018	0.33	NA

H3.1

pvalue	difference	2X	4X	6X	12X
	2X	NA	-0.06	-2.23	-0.43
	4X	0.979	NA	-2.18	-0.37
	6X	0.334	0.334	NA	1.805
	12X	0.845	0.864	0.414	NA

TUA

pvalue	difference	2X	4X	6X	12X
	2X	NA	0.2039	-2.69	-1.4
	4X	0.927	NA	-2.89	-1.6
	6X	0.249	0.2103	NA	1.25
	12X	0.512	0.4609	0.58	NA

H3.2

pvalue	difference	2X	4X	6X	12X
	2X	NA	-0.47	-2.48	-0.85
	4X	0.833	NA	-2.01	-0.38
	6X	0.283	0.369	NA	1.631
	12X	0.7	0.863	0.457	NA

TUB

pvalue	difference	2X	4X	6X	12X
	2X	NA	-0.026	-2.27	-1.5
	4X	0.991	NA	-2.24	-1.5
	6X	0.326	0.3229	NA	0.74
	12X	0.485	0.4978	0.74	NA

PP2A

pvalue	difference	2X	4X	6X	12X
	2X	NA	-0.63	-2.76	-1.96
	4X	0.774	NA	-2.13	-1.32
	6X	0.233	0.35	NA	0.806
	12X	0.371	0.551	0.716	NA

UBQ10

pvalue	difference	2X	4X	6X	12X
	2X	NA	-0.49	-2.04	-1.7
	4X	0.824	NA	-1.55	-1.2
	6X	0.381	0.495	NA	0.38
	12X	0.451	0.5961	0.86	NA

PR13S

pvalue	difference	2X	4X	6X	12X
	2X	NA	0.113	-3.48	-1.79
	4X	0.959	NA	-3.59	-1.91
	6X	0.131	0.109	NA	1.684
	12X	0.417	0.386	0.441	NA

UBQ3

pvalue	difference	2X	4X	6X	12X
	2X	NA	0.956	-2.06	-0.7
	4X	0.667	NA	-3.01	-1.6
	6X	0.379	0.1846	NA	1.39
	12X	0.759	0.4645	0.53	NA

Supplementary Figure S1: Melting curves for thirteen candidate reference genes in *Dianthus broteri*.

Supplementary Figure S2: qPCR amplification curves for thirteen candidate reference genes in *Dianthus broteri* leaves.

Supplementary Figure S3: qPCR amplification curves for thirteen candidate reference genes in *Dianthus broteri* petals.