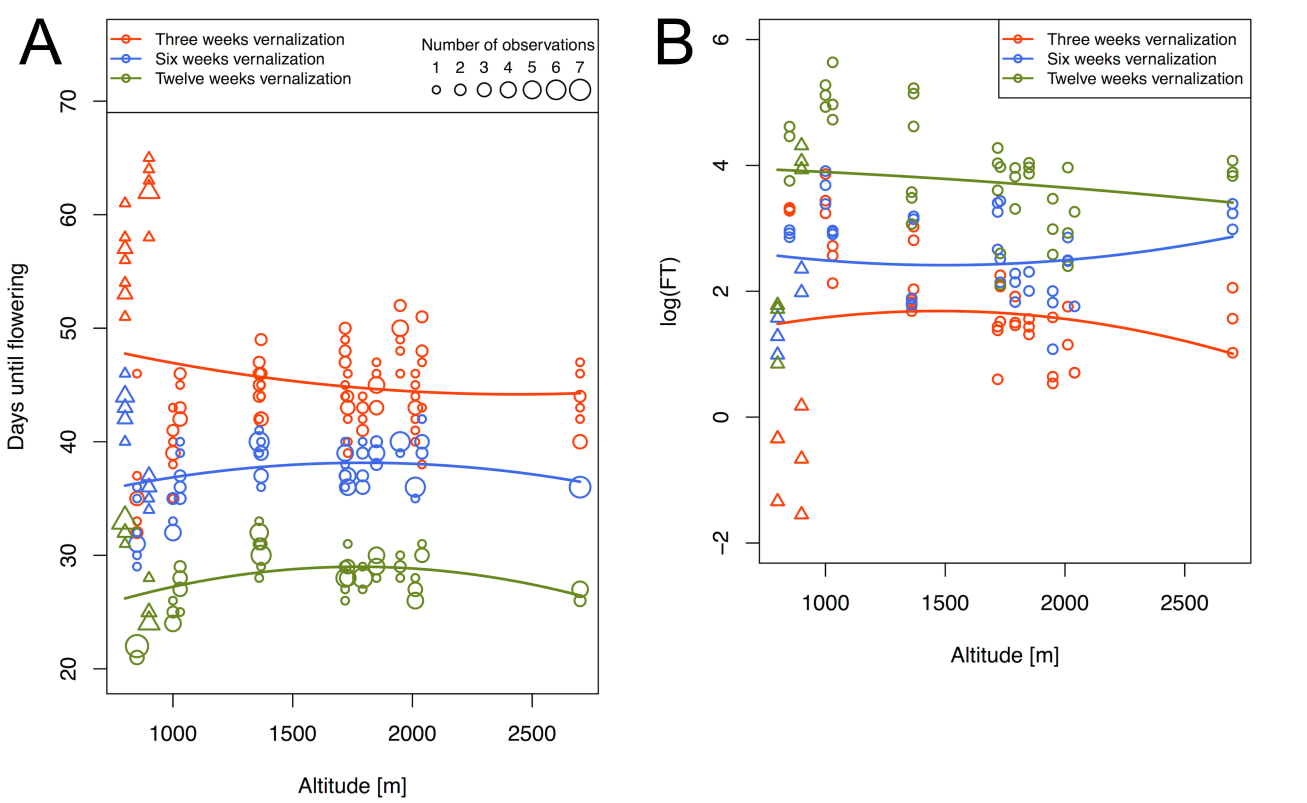

Figure S1: Days until flowering and gene expression for 15 *Arabidopsis thaliana* genotypes originating from an altitudinal gradient in the Swiss Alps. Colors denote different vernalization treatments. The 13 genotypes included in all main analyses are plotted in circles, whereas the excluded genotypes E001 and E003 are plotted in triangles. Lines show the predicted regression slope for each vernalization treatment calculated from linear mixed effects models with altitude (linear and quadratic) and treatment as fixed and genotype as random factors. **A**: Days until flowering. Circle and trangle sizes indicate the number of plants flowering on a particular day. **B**: Gene expression of *FT* at late collection time.

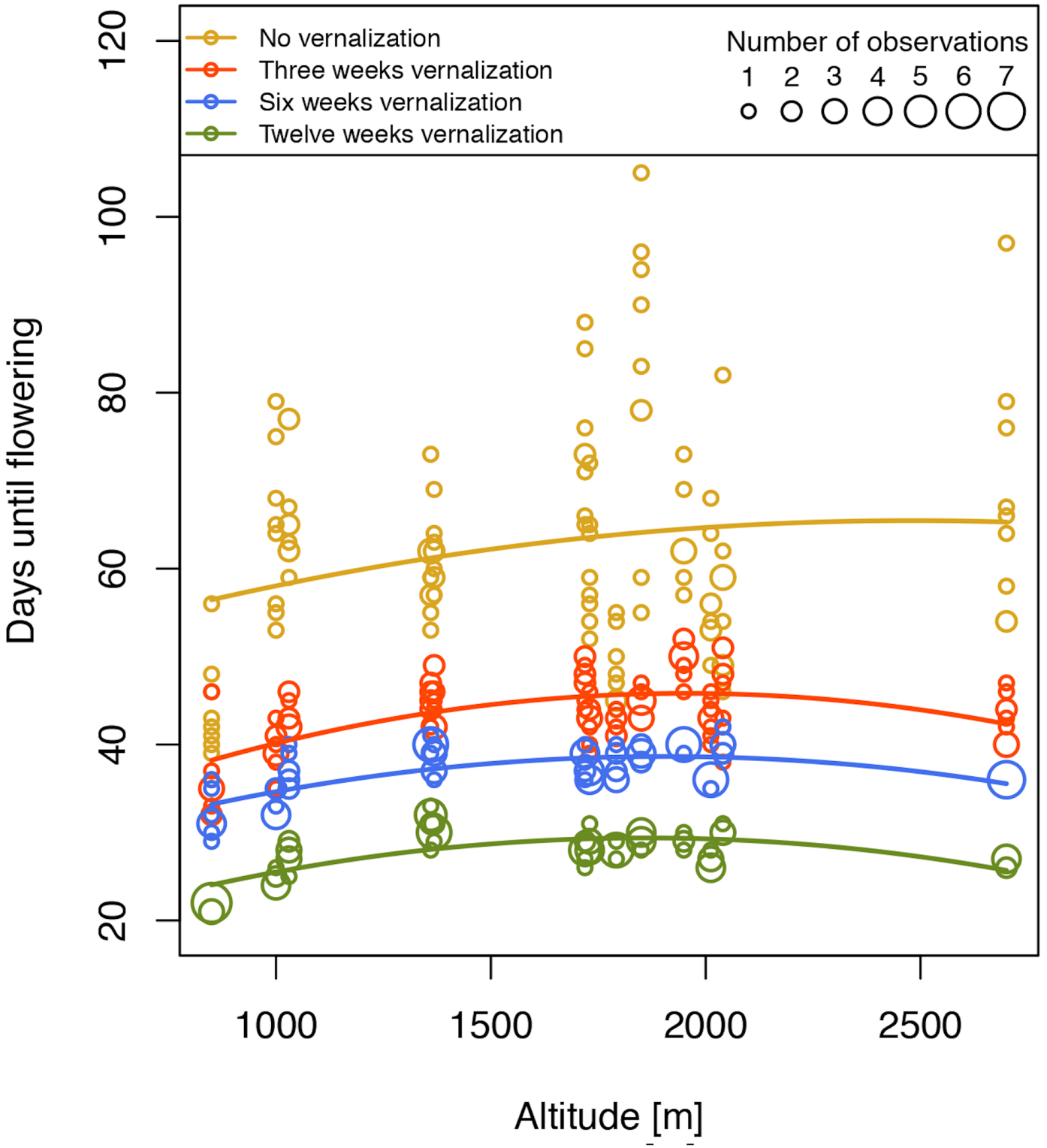

Figure S2: Days until flowering for 13 *Arabidopsis thaliana* genotypes originating from an altitudinal gradient in the Swiss Alps. Colors denote different vernalization treatments. Lines show the predicted regression slope for each vernalization treatment calculated from a linear mixed effects model with altitude (linear and quadratic) and treatment as fixed and genotype as random factors. Circle size indicates the number of plants flowering on a particular day.

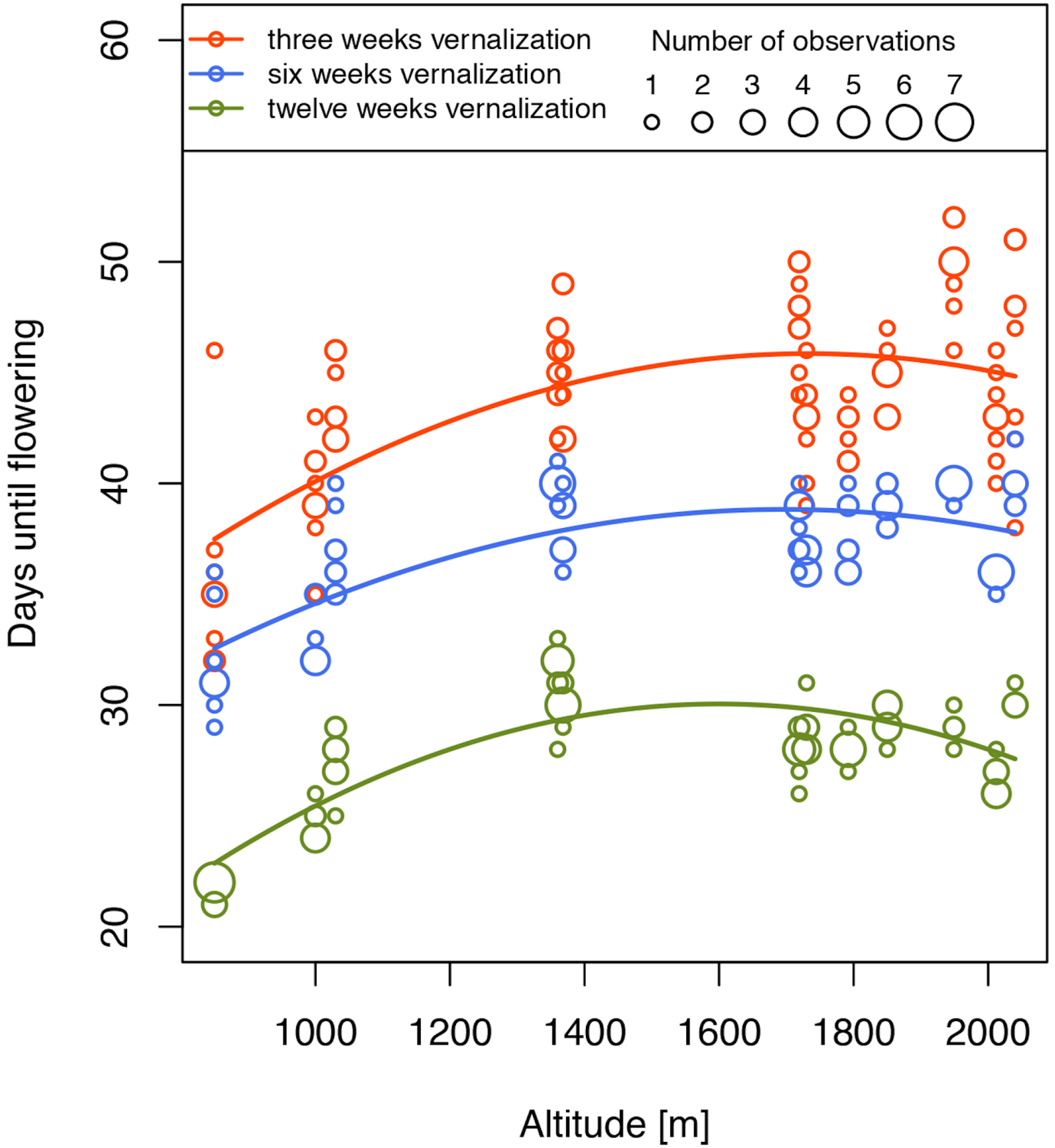

Figure S3: Days until flowering for 12 *Arabidopsis thaliana* genotypes originating from an altitudinal gradient in the Swiss Alps. Colors denote different vernalization treatments. Lines show the predicted regression slope for each vernalization treatment calculated from a linear mixed effects model with altitude (linear and quadratic) and treatment as fixed and genotype as random factors. Circle size indicates the number of plants flowering on a particular day.

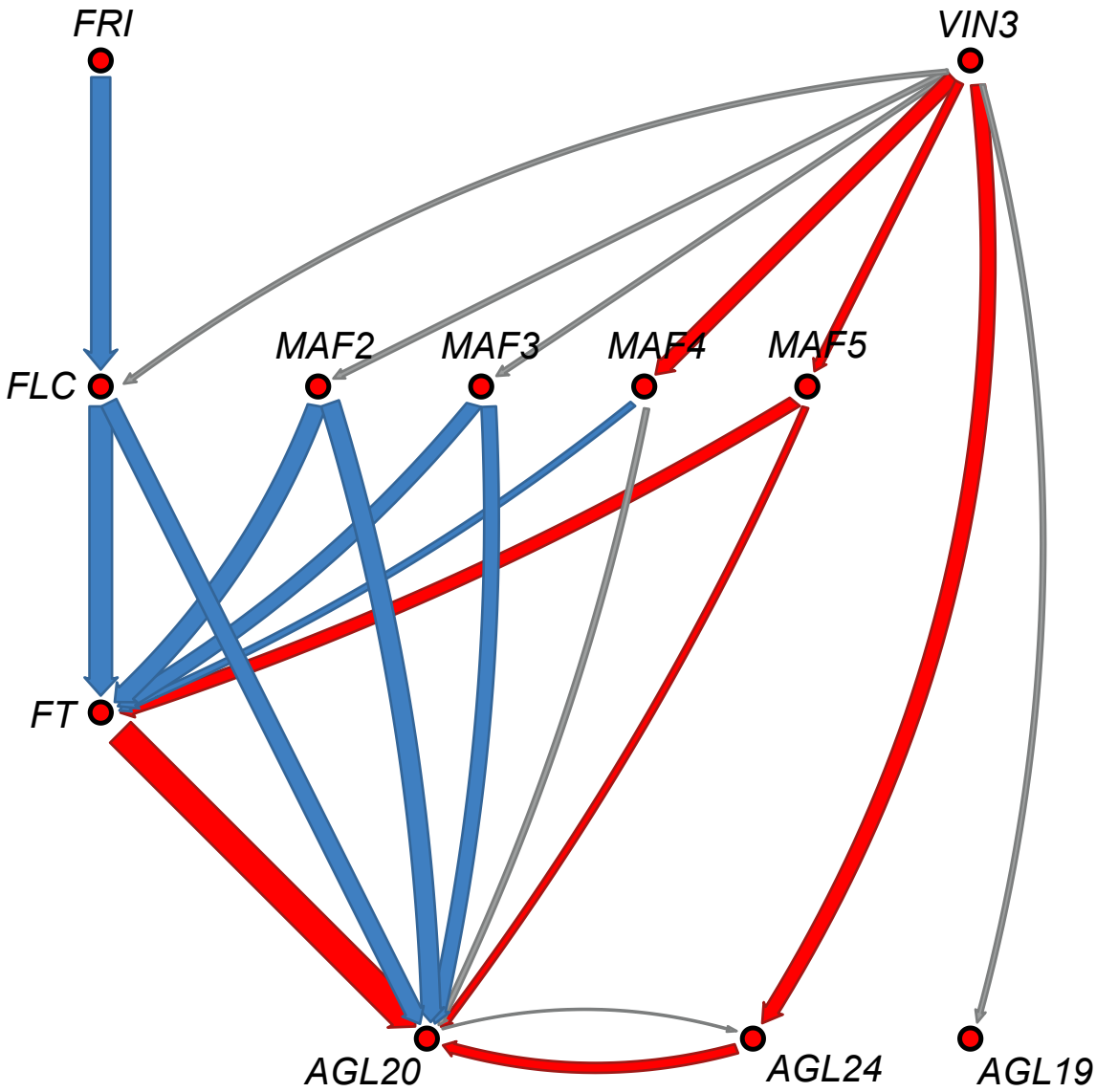

Figure S4: Gene regulatory network of the vernalization pathway, whereby edges indicate correlations of the expression of the upstream gene collected at the early collection time (last day of vernalization treatment) with the expression of the downstream gene collected at the late collection time (10 days later, at long day growth conditions). For each genotype the mean of the three biological replica of each treatment and collection time was calculated, so correlations of early expression with late expression could be calculated for each genotype and all three vernalization treatments together. Edge width indicates strength of correlation. Red edges indicate correlations with $r > 0.1$; blue edges with $r < -0.1$.

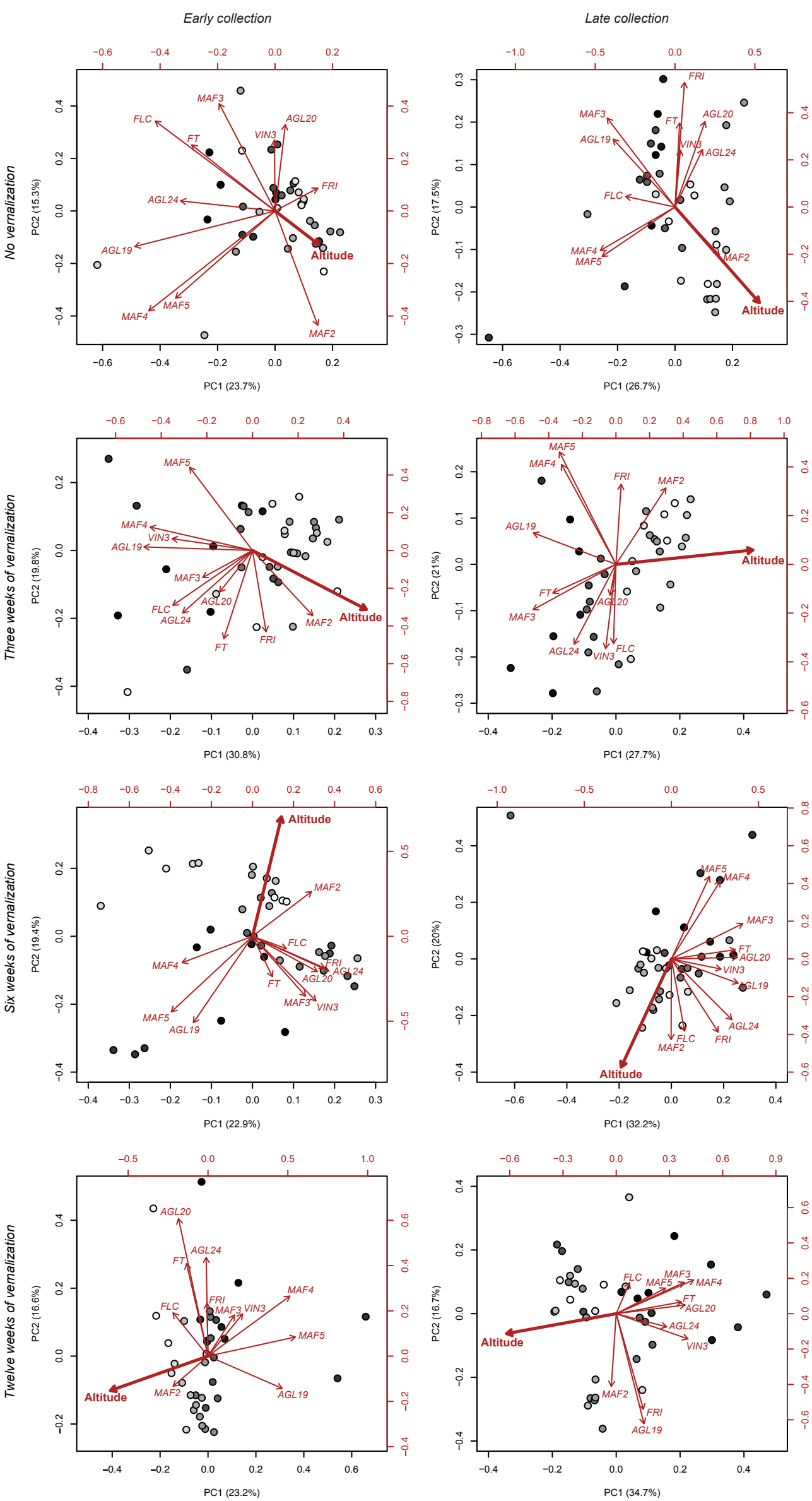

Figure S5: PCA's calculated with the gene expression data of 11 genes of the flowering pathway, separately for each vernalization treatment and collection time. Gradation from light to dark indicate altitudinal gradient from high to low. Mostly altitude strongly correlated with one or both principal components.

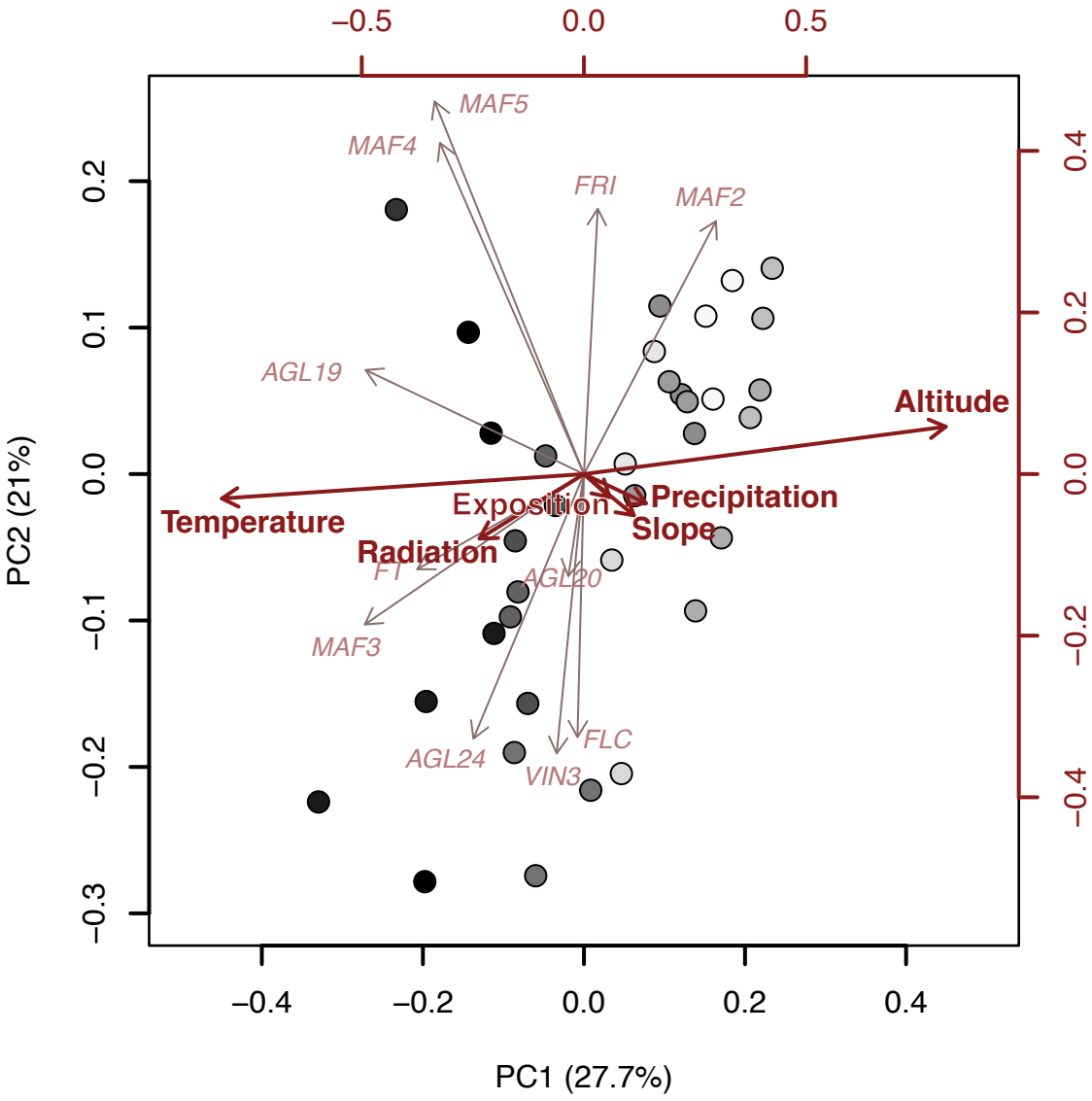

Figure S6: PCA calculated with the gene expression data of 11 genes of the flowering pathway for plants vernalized for thee treatments from late collection time. Gradation from light to dark indicates altitudinal gradient from high to low. Altitude and environmental variables (average yearly temperature, average yearly precipitation, yearly solar radiation, exposition and slope) were correlated with the principal components.

Table S1: Effect of altitude on flowering date, including non-vernalized plants. A linear mixed effect model was used with altitude (linear and quadratic) and vernalization treatment including their interactions as fixed factors and genotypes as random factors. Heteroscedasticity between treatments was accounted for by using the "weights" argument in the lme function.

	Estimate	**SE**	**T_{df}[b]**	**p-value**
Altitude, linear	54.975	26.131	2.104_{398}	0.036
Altitude, quadratic	-21.373	26.056	-0.820_{398}	0.413
3 weeks vernalization	-18.527	1.205	-15.380_{398}	<0.001
6 weeks vernalization	-25.074	1.181	-21.239_{398}	<0.001
12 weeks vernalization	-34.329	1.177	-29.164_{398}	<0.001
Altitude (linear) x 3 weeks	-20.217	24.539	-0.824_{398}	0.410
Altitude (quadratic) x 3 weeks	-18.113	24.459	-0.741_{398}	0.459
Altitude (linear) x 6 weeks	-32.585	24.058	-1.354_{398}	0.176
Altitude (quadratic) x 6 weeks	-9.538	23.978	-0.398_{398}	0.691
Altitude (linear) x 12 weeks	-35.685	23.986	-1.488_{398}	0.138
Altitude (quadratic) x 12 weeks	-11.697	23.908	-0.489_{398}	0.625

[b]T-values and degrees of freedom

Table S2: Effect of altitude on flowering date of vernalized plants without the genotype from the highest altitude, E012. A linear mixed effect model was used with altitude (linear and quadratic) and vernalization treatment including their interactions as fixed factors and genotypes as random factors. Heteroscedasticity between treatments was accounted for by using the "weights" argument in the lme function.

	Estimate	**SE**	**T_{df}[b]**	**P**
Altitude, linear	42.087	9.733	4.324_{271}	<0.001
Altitude, quadratic	-21.987	9.774	-2.250_{271}	0.025
6 weeks vernalization	-6.506	0.321	-20.288_{271}	<0.001
12 weeks vernalization	-15.764	0.305	-51.650_{271}	<0.001
Altitude (linear) x 6 weeks	-12.156	5.468	-2.223_{271}	0.027
Altitude (quadratic) x 6 weeks	4.082	5.467	0.747_{271}	0.456
Altitude (linear) x 12 weeks	-15.362	5.200	-2.954_{271}	0.003
Altitude (quadratic) x 12 weeks	-4.179	5.194	-0.805_{271}	0.422

[b]T-values and degrees of freedom

Table S3: Effect of altitude on flowering date of vernalized plants including genotypes E001 and E003. A linear mixed effect model was used with altitude (linear and quadratic) and vernalization treatment including their interactions as fixed factors and genotypes as random factors. Heteroscedasticity between treatments was accounted for by using the "weights" argument in the lme function.

	Estimate	**SE**	**T_{df}[b]**	**P**
Altitude, linear	-22.448	16.562	-1.355_{338}	0.176
Altitude, quadratic	8.007	16.525	0.485_{338}	0.628
6 weeks vernalization	-8.278	0.511	-16.190_{338}	<0.001
12 weeks vernalization	-17.728	0.504	-35.208_{338}	<0.001
Altitude (linear) x 6 weeks	30.414	9.544	3.187_{338}	0.002
Altitude (quadratic) x 6 weeks	-20.149	9.485	-2.124_{338}	0.034
Altitude (linear) x 12 weeks	32.765	9.399	3.486_{338}	<0.001
Altitude (quadratic) x 12 weeks	-25.635	9.345	-2.743_{338}	0.006

[b]T-values and degrees of freedom

Table S4: *Effect of yearly average temperature on flowering date of vernalized plants.* A linear mixed effect model was used with temperature (linear and quadratic) and vernalization treatment including their interactions as fixed factors and genotypes as random factors. Heteroscedasticity between treatments was accounted for by using the "weights" argument in the lme function.

	Estimate	**SE**	**T_{df}[b]**	**P**
Temperature, linear	-30.990	9.873	-3.139_{292}	0.002
Temperature, quadratic	-33.743	9.837	-3.430_{292}	<0.001
6 weeks vernalization	-6.549	0.306	-21.414_{292}	<0.001
12 weeks vernalization	-15.799	0.292	-54.072_{292}	<0.001
Temperature (linear) x 6 weeks	8.632	5.358	1.611_{292}	0.108
Temperature (quadratic) x 6 weeks	7.957	5.327	1.494_{292}	0.136
Temperature (linear) x 12 weeks	10.860	5.110	2.125_{292}	0.034
Temperature (quadratic) x 12 weeks	5.598	5.092	1.099_{292}	0.272

[b]T-value and degrees of freedom

Table S5: Genes examined and primers used in this study. Primer efficiency was calculated using LinReg. AL = Amplicon length (bp)

Gene	Gene ID	AL	Primer forward	Primer reverse	Probe	Efficiency
*ACT2**	AT3G18780	74	TTCCGCTCTTTCTTTCCAAG	CCATTGTCACACACGATTGG	102	1.969
*PDF2**	AT1G13320	84	ATTCCGATAGTCGACCAAGC	AACATCAACATCTGGGTCTTCA	22	1.842
*SAM2**	AT4G01850	139	CTCTAATCGCCGCAGCTT	TGCTATCAGGGTCTTGCTCA	148	1.796
*UBC9**	AT4G27960	84	CATCTTGAAGGAGCAGTGGAG	GGGTTTGGATCCGTTAACAA	108	1.815
AGL19	AT4G22950	75	ACCGAAGCTTGAGCAGGATA	CCTCTGCCTTCAACTTCTCAAT	142	1.782
AGL20/SOC1	AT2G45660	62	CAAACCCTTTTAGCCAATCG	GAGTTTTGCCCCTCACCA	143	1.636
AGL24	AT4G24540	74	AGCCGTGTGTCTGAAAAGAAG	AATTCCGATCCCCGTTTCT	136	1.525
FLC	AT5G10140	60	GACTGCCCTCTCCGTGACTA	TTCTCAACAAGCTTCAACATGAG	142	1.627
FRI	AT4G00650	142	CAGTCACCGCTGGCATTTA	CCAAGCTAACAATTTGCTCTTTG	121	1.776
FT	AT1G65480	70	GGTGGAGAAGACCTCAGGAA	GGTTGCTAGGACTTGGAACATC	138	1.738
MAF1	AT1G77080	60	TGCCTCCGGAAAACTCTATG	GGCTTGAACAGCGCTTCTAT	69	1.925
MAF2	AT5G65050	130	GGCTCCGGAAAACTCTACAA	GAGTGGCAGATAATTCCGAG	16	1.987
MAF3	AT5G65060	96	ACAGAACTAATGATGGAGGATATGAA	CTTCTTCCCCACCTGGCTA	7	1.721
MAF4	AT5G65070	91	TGAAGACCCATCAAGAGAAGG	GACTTCTTCATCTTCCCCATCTT	146	1.639
MAF5	AT5G65080	117	TCCACCGGCAAACTCTACA	CTGAGTTTTGTCTTCAAGATCC	101	1.800
VIN3	AT5G57380	68	CGCGTATTGCGGTAAAGATAA	TCTCTTTCGCCACCTTCACT	67	1.579

* these genes were used as reference genes, although *SAM2* had to be excluded due to instable expression.

Table S6: Effect of (logarithmic) gene expression on flowering time separately for early and late collection time, including genotypes E001 and E003.
Linear mixed effects models were used with genes included as fixed factors and genotypes as random factors. Significant gene expression effects are shown in bold.

	Early Collection					Late Collection				
Gene	**Estimate**	**SE**	**T_{df}[b]**	**P**	**P[c]**	**Estimate**	**SE**	**T_{df}[b]**	**P**	**P[c]**
AGL19	**-3.598**	**0.539**	**-6.672_{102}**	**<0.001**	**	**-3.108**	**0.569**	**-5.465_{96}**	**<0.001**	*
FLC	**2.516**	**0.590**	**4.266_{102}**	**<0.001**	·	**1.957**	**0.316**	**6.201_{96}**	**<0.001**	
AGL20	**-1.309**	**0.477**	**-2.742_{102}**	**0.007**		-0.525	0.485	-1.083_{96}	0.281	
MAF4	**6.211**	**2.832**	**2.193_{102}**	**0.031**	·	**12.504**	**2.977**	**4.200_{96}**	**<0.001**	*
MAF2	**1.525**	**0.710**	**2.149_{102}**	**0.034**		-0.805	0.760	-1.058_{96}	0.293	
VIN3	1.888	1.065	1.773_{102}	0.079	·	-0.303	0.511	-0.592_{96}	0.555	
AGL24	1.259	0.928	1.356_{102}	0.178		-1.384	0.881	-1.572_{96}	0.119	
MAF3	0.348	0.446	0.781_{102}	0.437		-0.013	0.362	-0.037_{96}	0.971	
MAF5	-1.086	2.175	-0.500_{102}	0.618		-2.035	1.242	-1.638_{96}	0.105	
FRI	-0.610	1.256	-0.486_{102}	0.628		2.734	1.367	2.001_{96}	0.048	
FT	0.127	1.004	0.126_{102}	0.900		**-1.523**	**0.389**	**-3.917_{96}**	**<0.001**	*

[b]T-value and degrees of freedom

[c]significant P-values of linear mixed effects models where the mean gene expression of each gene (per genotype and treatment) was tested against the mean flowering time of each treatment, separately for the two collection times. *: P-value < 0.05; **: P-value < 0.01

Table S7: *Correlation coefficients between gene regulation of the vernalization pathway and flowering time including genotypes E001 and E003.*
Gene regulatory network analysis revealed that several edges (Pearson correlations between gene pairs) of the vernalization pathway correlated significantly with flowering time in vernalized plants, indicating that flowering time can be explained by the regulation of genes analysed in this study.

Edge	Correlation	T_{df}[b]	P	P adj.[c]
AGL20-AGL24	-0.667	-5.740_{41}	<0.001	***
FT-AGL20	-0.562	-4.349_{41}	<0.001	***
VIN3-FLC	-0.479	-3.493_{41}	0.001	**
VIN3-AGL19	-0.449	-3.218_{41}	0.003	*
FLC-FT	0.383	2.654_{41}	0.011	*
MAF3-AGL20	0.326	2.123_{38}	0.040	ns
VIN3-MAF3	0.320	2.080_{38}	0.044	ns
MAF3-FT	-0.239	-1.514_{38}	0.138	ns
MAF2-AGL20	-0.229	-1.509_{41}	0.139	ns
VIN3-MAF4	0.195	1.274_{41}	0.210	ns
MAF2-FT	0.181	1.179_{41}	0.245	ns
MAF4-AGL20	0.162	1.048_{41}	0.301	ns
MAF5-FT	-0.122	-0.788_{41}	0.435	ns
VIN3-MAF5	0.104	0.669_{41}	0.507	ns
VIN3-MAF2	-0.103	-0.665_{41}	0.509	ns
MAF4-FT	-0.100	-0.646_{41}	0.522	ns
FLC-AGL20	-0.080	-0.513_{41}	0.610	ns
MAF5-AGL20	0.058	0.373_{41}	0.711	ns
VIN3-AGL24	-0.052	-0.334_{41}	0.740	ns
FRI-FLC	0.023	0.150_{41}	0.882	ns

[b]T-value and degrees of freedom
[c]P-values were adjusted following Benjamini and Hochberg (1995). *** adjusted P-value < 0.001; ** adjusted P-value < 0.01; * adjusted P-value < 0.05; ns: adjusted P-value > 0.05

Table S8: Effect of altitude on gene expression of vernalized plants. Linear mixed effect models were calculated separately for each gene and collection time, with altitude (linear and quadratic) and treatment as well as their interactions as fixed and genotype as random factors.

	Altitude (lin.)			Altitude (quad.)			6 wks vern.			12 wks vern.			Alt (lin)×6 wks			Alt (quad)×6 wks			Alt (lin)×12 wks			Alt(quad)×12 wks		
Genes, collection	t_{dF}	p^b		t_{dF}	p^b		t_{dF}	p^b		t_{dF}	p^b		t_{dF}	p^b		t_{dF}	p^b		t_{dF}	p^b		t_{dF}	p^b	
AGL19, early	-3.046_{93}	**0.0030**	*	2.635_{93}	**0.0099**	*	15.864_{93}	<0.0001	****	45.109_{93}	<0.0001	****	-1.513_{93}	0.1336		-2.012_{93}	0.0471		0.729_{93}	0.4677		-5.323_{93}	<0.0001	****
AGL19, late	-4.714_{90}	**<0.0001**	****	1.296_{90}	0.1984		11.505_{90}	<0.0001	****	27.662_{90}	<0.0001	****	3.027_{90}	0.0032	*	-2.358_{90}	0.0205		3.284_{90}	0.0015	**	-3.600_{90}	0.0005	**
AGL20, early	-0.147_{93}	0.8835		1.764_{93}	0.0810		-1.037_{93}	0.3024		-1.180_{93}	0.2410		-0.634_{93}	0.5276		-2.181_{93}	0.0317		0.428_{93}	0.6698		0.096_{93}	0.9235	
AGL20, late	1.044_{90}	0.2991		3.829_{90}	**0.0002**	**	4.163_{90}	<0.0001	***	7.929_{90}	<0.0001	****	-1.778_{90}	0.0788		-1.776_{90}	0.0791		-3.553_{90}	0.0006	**	-3.375_{90}	0.0011	**
AGL24, early	-0.795_{93}	0.4289		1.407_{93}	0.1628		-1.429_{93}	0.1563		3.202_{93}	0.0019	**	0.365_{93}	0.7159		-1.622_{93}	0.1083		0.599_{93}	0.5505		-0.518_{93}	0.6059	
AGL24, late	-2.248_{90}	0.0270		-0.664_{90}	0.5082		-0.949_{90}	0.3453		5.043_{90}	<0.0001	****	2.186_{90}	0.0314		0.801_{90}	0.4252		0.570_{90}	0.5704		1.320_{90}	0.1903	
FLC, early	0.069_{93}	0.9453		3.357_{93}	**0.0011**	**	-15.095_{93}	<0.0001	****	-39.007_{93}	<0.0001	****	0.223_{93}	0.8244		-3.881_{93}	0.0002	**	3.554_{93}	0.0006	**	-0.644_{93}	0.5213	
FLC, late	0.660_{90}	0.5109		0.580_{90}	0.5635		-15.903_{90}	<0.0001	****	-36.409_{90}	<0.0001	****	1.817_{90}	0.0725		-0.900_{90}	0.3707		1.452_{90}	0.1499		2.859_{90}	0.0053	*
FRI, early	1.276_{93}	0.2051		0.796_{93}	0.4280		4.611_{93}	<0.0001	****	2.575_{93}	0.0116	*	-1.797_{93}	0.0755		-2.009_{93}	0.0474		-0.776_{93}	0.4394		1.045_{93}	0.2988	
FRI, late	0.848_{90}	0.3986		1.603_{90}	0.1124		0.877_{90}	0.3827		5.766_{90}	<0.0001	****	-0.198_{90}	0.8434		-3.460_{90}	0.0008	**	-1.679_{90}	0.0967		-1.928_{90}	0.0570	
FT, early	0.264_{93}	0.7922		0.832_{93}	0.4077		-1.246_{93}	0.2160		8.259_{93}	<0.0001	****	-1.299_{93}	0.1970		0.674_{93}	0.5019		-1.065_{93}	0.2898		1.025_{93}	0.3081	
FT, late	-4.800_{89}	**<0.0001**	****	2.767_{89}	**0.0069**	*	6.538_{89}	<0.0001	****	18.493_{89}	<0.0001	****	4.452_{89}	<0.0001	***	-0.534_{89}	0.5949		1.834_{89}	0.0699		-0.561_{89}	0.5759	
MAF2, early	2.347_{93}	0.0211		-0.120_{93}	0.9049		1.146_{93}	0.2546		-3.098_{93}	0.0026	**	-0.881_{93}	0.3807		-1.022_{93}	0.3096		-1.999_{93}	0.0486		-0.587_{93}	0.5586	
MAF2, late	1.621_{90}	0.1085		1.288_{90}	0.2012		-3.956_{90}	0.0002	***	-5.803_{90}	<0.0001	****	-1.302_{90}	0.1962		-2.971_{90}	0.0038	*	-0.171_{90}	0.8648		-1.096_{90}	0.2759	
MAF3, early	-2.252_{93}	0.0267		0.783_{93}	0.4354		-0.999_{93}	0.3202		-11.564_{93}	<0.0001	****	-0.493_{93}	0.6231		-1.958_{93}	0.0533		2.524_{93}	0.0133	*	-1.421_{93}	0.1587	
MAF3, late	-1.230_{90}	0.2219		0.587_{90}	0.5587		-4.436_{90}	<0.0001	****	-8.521_{90}	<0.0001	****	-0.502_{90}	0.6171		-1.474_{90}	0.1439		-3.292_{90}	0.0014	**	1.152_{90}	0.2525	
MAF4, early	-1.938_{92}	0.0557		3.759_{92}	**0.0003**	**	-3.840_{92}	0.0002	***	-7.211_{92}	<0.0001	****	0.711_{92}	0.4791		-4.320_{92}	<0.0001	***	1.214_{92}	0.2279		-4.462_{92}	<0.0001	***
MAF4, late	-1.327_{90}	0.1879		2.014_{90}	0.0470		-4.031_{90}	0.0001	***	-6.643_{90}	<0.0001	****	-0.842_{90}	0.4021		-1.976_{90}	0.0513		-0.898_{90}	0.3716		0.741_{90}	0.4606	
MAF5, early	-0.732_{92}	0.4661		-0.006_{92}	0.9955		1.423_{92}	0.1582		1.326_{92}	0.1880		-2.229_{92}	0.0283		1.869_{92}	0.0647		-2.129_{92}	0.0359		2.210_{92}	0.0296	
MAF5, late	-1.820_{90}	0.0720		0.972_{90}	0.3337		-0.969_{90}	0.3350		-0.171_{90}	0.8646		1.193_{90}	0.2361		-0.656_{90}	0.5134		2.507_{90}	0.0140	*	-1.286_{90}	0.2016	
VIN3, early	-3.087_{92}	**0.0027**	*	1.138_{92}	0.2581		-1.522_{92}	0.1313		-1.482_{92}	0.1418		1.555_{92}	0.1233		0.371_{92}	0.7114		0.059_{92}	0.9532		-0.734_{92}	0.4646	
VIN3, late	-0.435_{90}	0.6644		-0.052_{90}	0.9590		6.105_{90}	<0.0001	****	10.472_{90}	<0.0001	****	-0.696_{90}	0.4881		0.612_{90}	0.5422		-2.677_{90}	0.0088	*	1.060_{90}	0.2922	

[b] original p-values are shown in this table. These were then corrected for multiple testing following Benjamini and Hochberg (1995) separately for each factor. Asterisks denote the significance of these adjusted p-values. * : adjusted p-value < 0.05; ** : adjusted p-value < 0.01; *** : adjusted p-value < 0.001; **** : adjusted p-value < 0.0001

Table S9: Gene regulatory network analysis show that some edges could be associated with altitude. However, after adjusting for multiple testing, none of the effects remained significant.

Gene 1	Gene 2	Correlation	T_{df}[b]	P	P adj.[c]
FT	AGL20	-0.722	-3.464_{11}	0.0053	0.1059
MAF5	AGL20	0.497	1.901_{11}	0.0838	0.4503
VIN3	MAF5	0.495	1.888_{11}	0.0857	0.4503
FLC	AGL20	0.484	1.835_{11}	0.0937	0.4503
MAF4	AGL20	0.428	1.570_{11}	0.1448	0.4503
VIN3	MAF2	0.415	1.513_{11}	0.1584	0.4503
AGL20	AGL24	-0.397	-1.433_{11}	0.1796	0.4503
VIN3	AGL19	-0.396	-1.431_{11}	0.1801	0.4503
MAF3	AGL20	0.385	1.319_{10}	0.2164	0.4810
MAF2	FT	-0.283	-0.977_{11}	0.3494	0.6989
VIN3	FLC	0.224	0.763_{11}	0.4617	0.7394
FLC	FT	0.222	0.754_{11}	0.4667	0.7394
FRI	FLC	-0.215	-0.730_{11}	0.4806	0.7394
VIN3	AGL24	-0.191	-0.645_{11}	0.5322	0.7603
VIN3	MAF3	0.163	0.523_{10}	0.6126	0.8158
VIN3	MAF4	0.110	0.367_{11}	0.7209	0.8158
MAF5	FT	-0.103	-0.342_{11}	0.7385	0.8158
MAF3	FT	-0.095	-0.303_{11}	0.7683	0.8158
MAF4	FT	0.088	0.293_{11}	0.7750	0.8158
MAF2	AGL20	0.070	0.233_{11}	0.8200	0.8200

[b]T-value and degrees of freedom

[c]P-values were adjusted following Benjamini and Hochberg (1995)

Table S10: Environmental parameters for all original collection sites, extrapolated with interpolated GIS data (ARCMAP 10; ESRI). Genotype E001 and E003 (in italic) were excluded from analyses.

Altitude	Genotype	Yearly precipitation	Yearly solar radiation	Average winter temperature	Average summer temperature	Average yearly temperature	Maximal winter temperature	Maximal summer temperature	Maximal yearly temperature	Minimal winter temperature	Minimal summer temperature	Minimal yearly temperature	Habitat exposition	Habitat slope
800	*E001*	*12503*	*15731*	*2.02*	*12.35*	*7.18*	*6.16*	*17.92*	*12.04*	*-1.21*	*8.19*	*3.49*	*7*	*9*
850	E002	7771	17429	2.40	13.01	7.70	6.65	19.32	12.98	-1.35	8.19	3.42	190	11
900	*E003*	*7320*	*11197*	*2.93*	*13.64*	*8.28*	*6.91*	*19.76*	*13.34*	*-1.24*	*8.33*	*3.54*	*286*	*17*
1000	E004	8261	22824	2.08	12.57	7.32	6.40	18.91	12.65	-1.73	7.74	3.01	210	38
1030	E005	8743	17947	1.78	12.23	7.00	5.91	18.11	12.01	-2.03	7.35	2.66	128	23
1360	E006	15503	19286	-0.33	9.80	4.73	4.14	15.15	9.64	-3.38	5.65	1.14	175	16
2040	E007	10407	21887	-4.13	6.07	0.97	0.80	11.31	6.05	-8.39	1.52	-3.44	189	21
1719	E008	8280	16834	-1.32	8.33	3.50	2.91	13.29	8.10	-4.73	4.15	-0.29	65	18
1850	E009	10631	14401	-2.84	6.36	1.75	1.25	10.65	5.95	-6.31	2.21	-2.05	318	28
2012	E011	10064	19986	-2.84	6.41	1.78	0.86	10.10	5.48	-6.58	1.93	-2.32	93	47
2700	E012	14172	22404	-5.57	2.88	-1.34	-1.47	6.34	2.43	-8.42	-0.49	-4.46	258	34
1368	E014	15550	18899	-0.36	9.77	4.70	4.07	15.05	9.56	-3.44	5.58	1.07	176	12
1730	E015	8359	16834	-1.34	8.31	3.48	2.81	13.13	7.97	-4.82	4.05	-0.39	65	18
1792	E016	8615	16619	-1.55	8.05	3.24	2.71	12.97	7.84	-4.92	3.93	-0.49	113	6
1949	E017	9394	17179	-1.97	7.51	2.76	2.25	12.25	7.25	-5.35	3.41	-0.97	88	29