

Supporting Information

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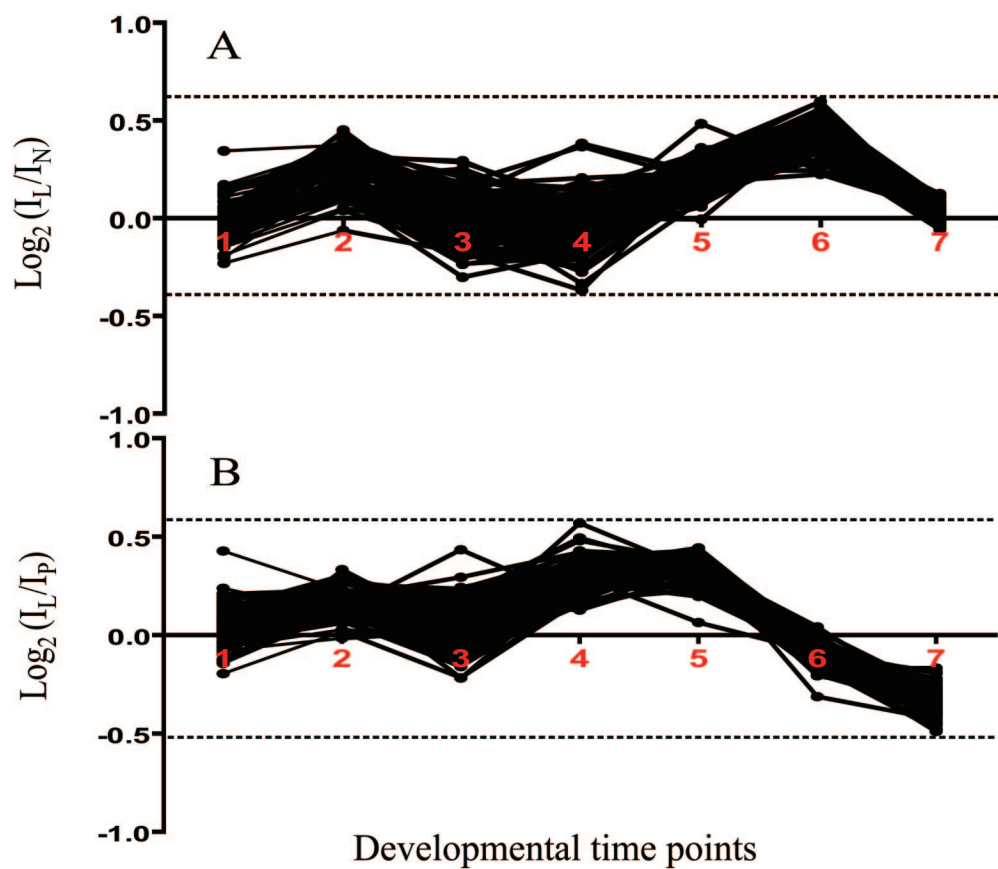


Fig. S1. Expression profile of a polyubiquitin gene (AK062354). All copies of polyubiquitin genes in the array showed an almost identical expression pattern, indicating the reproducibility and homogeneity of the array data. I denote the normalized expression intensity in the array. N, L, and P stand for *93-11*, *LYP9*, and *PA64s*, respectively. Numbers 1–7 denote samples from the following tissues in order: seedling shoot, leaf at tillering stage, flag leaf at booting stage, flag leaf at heading stage, flag leaf at flowering stage, flag leaf at filling stage, and panicle at filling stage.

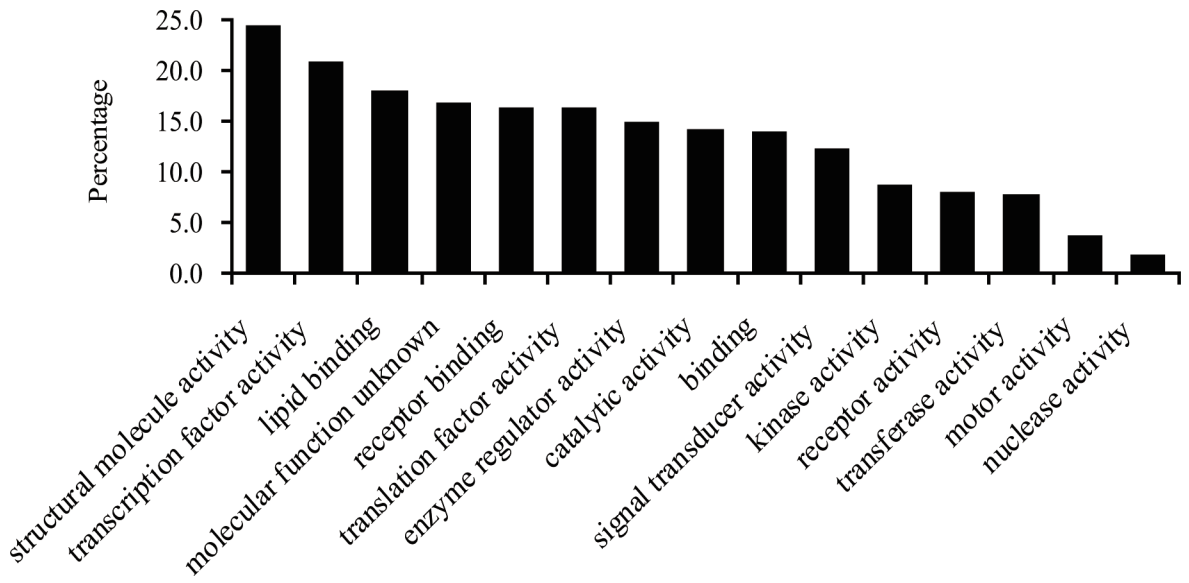


Fig. S3. Gene Ontology analysis of all expressed genes in LYP9 hybrid combination along all sample points based on plantGoslim.

Table S1. Number of expressed and enriched genes

Sample	L/N	L/P	Overlap	Total	Enriched
S1	14,280	14,374	14,197	14,457	405
S2	12,478	11,934	11,852	12,560	255
S3	14,250	14,084	13,921	14,413	22
S4	14,196	13,829	13,776	14,249	48
S5	14,592	12,835	11,962	15,465	197
S6	11,721	11,448	10,860	12,309	75
S7	14,102	14,298	13,646	14,754	453
Overlap	7,582	7,332	7,078	-	-
Total	21,871	20,716	20,321	22,266	1,455

N, L, and P stand for *93-11*, *LYP9*, and *PA64s*, respectively. S1–S7 denote the 7 plant samples used in the study: S1, seedling shoot; S2, leaf at tillering stage; S3, flag leaf at booting stage; S4, flag leaf at heading stage; S5, flag leaf at flowering stage; S6, flag leaf at filling stage; and S7, panicle at filling stage.

Table S4. Percentage of DG_{HP} in QTL-containing genes

No. of genes in QTL	No. of QTLs	No. of DG _{HP}	No. of genes	%
≈ 1–10	2,461	61	518	11.78
≈ 11–50	236	277	2,756	10.05
≈ 51–100	324	693	6,951	9.97
≈ 101–200	649	1,618	17,137	9.44
≈ 201–500	973	2,568	27,353	9.39
> 500	598	2,636	28,152	9.36
Overall	5,241	3,187	36,926	8.63

Other Supporting Information Files

[Dataset S1 \(PDF\)](#)