

**S3 Table. Performance of agronomic traits for NIL-*GNPI*<sup>TQ</sup> and isogenic control (Lemont) across different environments.**

Env.	Genotype	PH	PNP	HD
BJ	Lemont	86.9	9.6	98.7
	NIL- <i>GNPI</i> <sup>TQ</sup>	95.1**	8.1**	99.8
NN	Lemont	90.7	4.9	80.7
	NIL- <i>GNPI</i> <sup>TQ</sup>	96.9*	4.9	81.6
JZ	Lemont	97.7	10.7	97.1
	NIL- <i>GNPI</i> <sup>TQ</sup>	110.3***	11.3	95.6
PX	Lemont	93.9	12.6	90.2
	NIL- <i>GNPI</i> <sup>TQ</sup>	102*	11.5	88.7
SY	Lemont	89.8	10.1	88.9
	NIL- <i>GNPI</i> <sup>TQ</sup>	98.4**	8.6**	87.5

PH: plant height (cm), PNP: panicles per plant, HD: heading date (d), BJ: Beijing, NN: Nanning, JZ: Jingzhou, PX: Pingxiang, SY: Sanya.

\*, \*\* and \*\*\* represent significance differences at  $p$ -value  $\leq$  0.05, 0.01, and 0.001, respectively.