

Table S5 List of genes targeted by the tasiRNA candidates identified in leaves and seedlings.

| <i>TAS</i> candidate locus ID | TasiRNA IDs | TasiRNA sequences | Target IDs | Target annotations |
|---|------------------------------------|-----------------------|-------------|---|
| Chr1-2460-21nt-L-23299523-23300313 & Chr1-3120-21nt-S-23299523-23300250 | LphasiR21-101 & SphasiR21-32 | TCAATGCGCTGAAAGTGACTA | AT1G62590.1 | Pentatricopeptide repeat (PPR) adenylate cyclase |
| | | | AT1G62910.1 | Pentatricopeptide repeat (PPR) superfamily member |
| | | | AT1G62930.1 | Pentatricopeptide repeat (PPR) superfamily member |
| | | | AT1G63130.1 | TasiRNA generating locus |
| | | | AT1G63150.1 | TasiRNA generating locus |
| | | | AT1G63330.1 | Pentatricopeptide repeat (PPR) superfamily member |
| | | | AT5G41170.1 | RFL24 |
| Chr1-3120-21nt-S-23299523-23300250 | SphasiR21-32 | TCAATGCGCTGAAAGTGACTA | AT1G62914.1 | Pentatricopeptide repeat (PPR) superfamily member |
| | SphasiR21-19 | TTAGTTGATCAAATGGTTCAA | AT5G44800.1 | CHROMATIN REMODELING 4 (CHR4) |