**Table S8** List of genes in the corresponding orthologous region of *Z. mays*.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Gene | Classification  | Putative gene product  | Identification method  | Homolog in rice | Information |
| Transcript evidence | Known functional domain |
| Fl-cDNA  | Accession domain | Domain name |
| ZM-4 | Expressed | Meta transporter Nramp6 | GRMZM2G366919\_T01 | PF01566 | Nramp | LOC\_Os07g15460 |  |
| ZM-10 | Expressed | H-BTB6-Bric-a-Brac, Tramtrack, Broad Complex BTB domain with H family | GRMZM2G067756\_T01 | NONE | NONE | LOC\_Os07g15600 |  |
| ZM-11 | Expressed | Pentatricopeptide repeat (PPR) proteins  | GRMZM2G367008\_T01 | PF01535 | PPR | LOC\_Os07g15640 |  |
| ZM-12　　 | Expressed　　 | Peroxiredoxin　　 | GRMZM2G145895\_T01;GRMZM2G145895\_T02;GRMZM2G145895\_T03 | PF00578　　 | AhpC-TSA　　 | LOC\_Os07g15670　　 |  |
| ZM-13　 | Expressed　 | Phospholipase D　 | GRMZM2G145944\_T01;GRMZM2G145944\_T02  | PF00168/ PF00614 | C2/PLDc | LOC\_Os07g15680　 |  |
| ZM6 | Fragment | Succinate dehydrogenase iron-sulfur subunit 2, mitochondrial precursor | NONE | NONE | NONE | LOC\_Os08g02640 |  |
| ZM7 | Fragment | CK1\_CaseinKinase\_1.8 - CK1 includes the casein kinase 1 kinases | NONE | NONE | NONE | LOC\_Os05g51560 | Captured by EnSpm-13\_ZM|DNA/En-Spm |
| ZM-20 | Expressed | Erythronate-4-phosphate dehydrogenase domain containing protein | GRMZM2G176977\_T01;GRMZM2G176977\_T02;GRMZM2G176977\_T03;GRMZM2G176977\_T04;GRMZM2G176977\_T05 | PF02826　 | 2-Hacid\_dh\_C　 | LOC\_Os07g16040　 |  |

The light blue means the orthologous genes in rice.