**Table S6:**

**GO enrichment analysis of the genes in candidate region.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **GO ID** | **GO Term** | **Ontology** | **NO.****of Gene** | **Gene** |
| GO:0022414 | reproductive process | Biological Process | 1 | *TraesCS2A02G016400* |
| GO:0000003 | reproduction | Biological Process | 1 | *TraesCS2A02G016400* |
| GO:0044699 | single-organism process | Biological Process | 3 | *TraesCS2A02G015800 TraesCS2A02G016400**TraesCS2A02G018800* |
| GO:0050789 | regulation of biological process | Biological Process | 1 | *TraesCS2A02G019300* |
| GO:0065007 | biological regulation | Biological Process | 1 | *TraesCS2A02G019300* |
| GO:0008152 | metabolic process | Biological Process | 4 | *TraesCS2A02G015800 TraesCS2A02G016500**TraesCS2A02G018800 TraesCS2A02G019300* |
| GO:0009987 | cellular process | Biological Process | 2 | *TraesCS2A02G016400,TraesCS2A02G019300* |
| GO:0001071 | nucleic acid binding transcriptionfactor activity | Molecular Function | 2 | *TraesCS2A02G018000,TraesCS2A02G019300* |
| GO:0003824 | catalytic activity | Molecular Function | 6 | *TraesCS2A02G015800 TraesCS2A02G015900**TraesCS2A02G016500 TraesCS2A02G017500**TraesCS2A02G018500 TraesCS2A02G018800* |
| GO:0005488 | binding | Molecular Function | 8 | *TraesCS2A02G015800,TraesCS2A02G016500**TraesCS2A02G017200 TraesCS2A02G017500**TraesCS2A02G018800 TraesCS2A02G018900**TraesCS2A02G019000 TraesCS2A02G019300* |