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| --- | --- | --- | --- | --- |
| **Category** | **GO ID** | **Description** | **p-value** | **gene Number** |
| BP | GO:0006351 | transcription, DNA-templated | 0.007  | 125 |
| BP | GO:0097659 | nucleic acid-templated transcription | 0.007  | 125 |
| BP | GO:0048544 | recognition of pollen | 0.007  | 34 |
| BP | GO:0008037 | cell recognition | 0.007  | 34 |
| BP | GO:0022414 | reproductive process | 0.019  | 36 |
| BP | GO:0044702 | single organism reproductive process | 0.019  | 35 |
| BP | GO:0042744 | hydrogen peroxide catabolic process | 0.027  | 24 |
| BP | GO:0042743 | hydrogen peroxide metabolic process | 0.027  | 24 |
| CC | GO:0005576 | extracellular region | 0.000  | 78 |
| CC | GO:0031224 | intrinsic component of membrane | 0.003  | 1056 |
| CC | GO:0016021 | integral component of membrane | 0.003  | 1053 |
| CC | GO:0044425 | membrane part | 0.016  | 1135 |
| MF | GO:0020037 | heme binding | 0.000  | 145 |
| MF | GO:0003824 | catalytic activity | 0.000  | 2443 |
| MF | GO:0016705 | oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen | 0.000  | 112 |
| MF | GO:0003700 | transcription factor activity, sequence-specific DNA binding | 0.000  | 98 |
| MF | GO:0001071 | nucleic acid binding transcription factor activity | 0.000  | 98 |
| MF | GO:0004497 | monooxygenase activity | 0.000  | 90 |
| MF | GO:0046906 | tetrapyrrole binding | 0.000  | 146 |
| MF | GO:0005506 | iron ion binding | 0.001  | 115 |
| MF | GO:0016491 | oxidoreductase activity | 0.002  | 704 |
| MF | GO:0043531 | ADP binding | 0.003  | 60 |
| MF | GO:0004553 | hydrolase activity, hydrolyzing O-glycosyl compounds | 0.004  | 99 |
| MF | GO:0016798 | hydrolase activity, acting on glycosyl bonds | 0.008  | 100 |
| MF | GO:0016773 | phosphotransferase activity, alcohol group as acceptor | 0.033  | 367 |