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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Gene** | **Gene name** | **Annotation** | **Primer seq 5' to 3'** | **Len** | **MW** | **% GC** | **Tm** |
| Gh\_A11G2835  | RGA3 | Predicted: putative disease resistance protein RGA3 | F\_ATCTCAAACGCACCGTCTCC | 20 | 5982 | 55 | 62 |
| R\_TCAAGCAAGTCATCGGCATCA | 21 | 6399 | 48 | 61 |
| Gh\_A11G2836  | RPPL1 | Putative disease resistance RPP13-like protein 1 | F\_TGAAGGTGGATGGGTGGAAG | 20 | 6342 | 55 | 62 |
| R\_TGAGCAAAGGACGGGAGATG | 20 | 6280 | 55 | 62 |
| Gh\_A11G3090  | PUB21 | PREDICTED: U-box domain-containing protein 21-like | F\_TTGGAGAAATCGCAGAGCC | 19 | 5862 | 53 | 60 |
| R\_GAGAAATAGGACATCGGAAATGTG | 24 | 7499 | 42 | 61 |
| Gh\_A11G3216  | - | PREDICTED: cytochrome P450 CYP73A100-like | F\_ATTCCATTGCTACGACCCTT | 20 | 6003 | 45 | 58 |
| R\_GCTTATCTTGTGCTTGTCCAT | 21 | 6369 | 43 | 59 |
| Gh\_A11G3289  | At1g67000 | PREDICTED: rust resistance kinase Lr10-like | F\_TGAAACTAGAATTACCTCCATTATCAAG | 28 | 8540 | 32 | 60 |
| R\_CGACGGCTGAGTTTTAAGC | 19 | 5844 | 53 | 60 |
| Gh\_D02G0201  | WAKL1 | PREDICTED: wall-associated receptor kinase-like 1 | F\_CGGGTCTTAGTTCTTTTGTCGC | 22 | 6715 | 50 | 63 |
| R\_TTGGTTGTTGTGTCATTGTGGTC | 23 | 7114 | 44 | 61 |
| Gh\_D02G0257  | RLP12 | PREDICTED: receptor-like protein 12 | F\_TGGTCTTCCAATGCTACCACC | 21 | 6317 | 52 | 63 |
| R\_ACATCTTCTTCTATTTCTTTTCCCACAC | 28 | 8351 | 36 | 62 |
| Gh\_D02G0259  | RLP12 | PREDICTED: receptor-like protein 12 | F\_CTTCCAATGCCACCACTTC | 19 | 5644 | 53 | 60 |
| R\_CAACGACCAATCCACTAGC | 19 | 5711 | 53 | 60 |
| Gh\_D02G0264  | PHT1-5 | PREDICTED: probable inorganic phosphate transporter 1-5 | F\_GAGAAGGTGGATAAGATAGGGAGAG | 25 | 7933 | 48 | 65 |
| R\_CGCTTTAGGGAGCCAACCAA | 20 | 6111 | 55 | 62 |
| Gh\_D02G0227  | UGT75L6 | PREDICTED: crocetin glucosyltransferase, chloroplastic-like | F\_GCAGGGAAGAATTGGAACAGG | 21 | 6593 | 52 | 63 |
| R\_TCACGAAGCAACCCAACGA | 19 | 5760 | 53 | 60 |
| Gh\_D02G0229  | UGT75L6 | PREDICTED: crocetin glucosyltransferase, chloroplastic-like | F\_GAATCCACCATTAAAGTTCCAGT | 23 | 6992 | 39 | 59 |
| R\_AACAACGACAGTGCCCAA | 18 | 5471 | 50 | 58 |
| Gh\_D11G3369  | N | TMV resistance protein N | F\_AGGAATTTGCGGAATGGGTG | 20 | 6277 | 50 | 60 |
| R\_AAACCTGTGGCTAATTATGGC | 21 | 6735 | 43 | 61 |
| *GhACT4*  | At5g09810 | Actin gene family | F\_TTGCAGACCGTATGAGCAAG | 20 | 6166 | 50 | 60 |
| R\_ATCCTCCGATCCAGACACTG | 20 | 6022 | 55 | 62 |