**Table S1:** List of primers for *Brassica napus*. Primers without citation were designed according to the mentioned sequences from NCBI database (Pontius et al., 2003). Primers were designed using Primer3Plus (Untergasser et al., 2007). The quality of primer pairs was verified by AlleleID (PREMIER Biosoft) and the probability of folding secondary structures was predicted with mfold (Zuker et al., 1999).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Gene** | **Description** |  | **Primers** | **Source** |
| *IPT3* | isopentenyltransferase 3 | F: | gcttccaatcatcgttggaggtt | Song et al. (2015) |
| R: | tctctagcttcttcgaccattccat |
| *ACT2* | actin 2 | F: | ctggaattgctgaccgtatgag | Sasek et al. (2012) |
| R: | tgttggaaagtgctgaggga |
| *LOX4* | lipoxygenase 4 | F: | gttagcgcggatggtgtgat | Joshi et al. (2016) |
| R: | tgggtcaggaacagccattc |
| *EIN2* | ethylene insensitive 2 | F: | ggaaaatgcacaacagcagtca | Liang et al. (2009) |
| R: | gtccggcctttcctacaagag |
| *ACS2* | 1-amino-cyclopropane-1-carboxylate synthase 2 | F: | aggtggtcaaagacttagatag | Sasek et al. (2012) |
| R: | accgagtcgttgtaagaata |
| *PDF1.2* | plant defensin 1.2 | F: | tgccctactttttgctgctc | EE421691 |
| R: | catgtcgtgctttctcaagg |
| *AOC* | allen oxide cyclase | F: | caagcaaaaacccgaggagtt | Liang et al. (2009) |
| R: | ctggtggcatattgactcgaaa |
| *JAR1* | jasmonate resistant 1 | F: | tttgagcaactggtacgg | XM\_022718996.1 |
| R: | cagatcaccagcgtaatgcc |
| *PR3* | pathogenesis-related protein 3 | F: | atgcctttatcaatgccgctaa | Liu et al. (2018) |
| R: | actgtccgtagttgtagttcca |
| *ICS1* | isochorismate synthase 1 | F: | caaactcatcatcttccctc | Sasek et al. (2012) |
| R: | agcgtgacttactaaccag |
| *NPR1* | nonexpresser of PR genes 1 | F: | tgctctgttgatcgcgaaac | Liang et al. (2009) |
| R: | cgcctttggcagctaacttc |
| *PR1* | pathogenesis-related protein 1 | F: | catccctcgaaagctcaagac | Sasek et al. (2012) |
| R: | ccactgcacgggacctac |
| *NCED3* | nine-*cis*-epoxycarotenoid dioxygenase 3 | F: | cgatttgccttaccaagtcag | Sasek et al. (2012) |
| R: | tttatcccttccggtgagaa |
| *NIT1* | nitrilase 1 | F: | agataaactggcggaactagc | Zhou et al. (2016) |
| R: | catgaccttacggtgcttac |
| *TAA1* | L-tryptophan-pyruvate aminotransferase 1-like | F: | cgtcacccaataacccagac | Rodriguez-Sanz et al. (2015) |
| R: | catcttctttgccacctcct |
| *YUC8* | yucca 8 | F: | cgagaagtacggtttgaaacgac | XM\_013812806.2 |
| R: | accggcgtcttccctttc |
| *YUC9* | yucca 9 | F: | gtcgaaagatcagactgcatagc | XM\_013840048.2 |
| R: | cgatgaactgtcgttttgttggg |

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