**Table S4** Details of SNP primers designed from the 4 SNP variations of the three genes, including *EgDELLA1*, *EgGA20ox1* and *EgExp4*. To amplify each SNP position, three primers, including two forward primers that are specific for each SNP (red letters and yellow highlights) and 1 common reverse primer, were designed. Sequences in blue letters represent sequences for FAM emission while sequences in green letters represent sequences for HEX emission

|  |  |  |  |
| --- | --- | --- | --- |
| SNP primer name | Primer Sequences | SNP1 | SNP2 |
| mEgDELLA1\_SNP2100\_Allele 1 | GAAGGTGACCAAGTTCATGCTCCTCCTCCAATTCAAACATCTCTTCA | T | A |
| mEgDELLA1\_SNP2100\_Allele 2 | GAAGGTCGGAGTCAACGGATTCCTCCTCCAATTCAAACATCTCTTCT |   |   |
| mEgDELLA1\_SNP2100\_common reverse primer | AAGCAGTGGCAGTCTCAGATCTCAA |   |   |
|   |   |   |   |
| mEgDELLA1\_SNP2248\_Allele 1 | GAAGGTGACCAAGTTCATGCTGCCATACGTAATGATAGTTGCAGATG | G | A |
| mEgDELLA1\_SNP2248\_Allele 2 | GAAGGTCGGAGTCAACGGATTAGCCATACGTAATGATAGTTGCAGATA |   |   |
| mEgDELLA1\_SNP2248\_common reverse primer | GGCTTCAGTGAAGCGGTTGATGAAA |   |   |
|   |   |   |   |
| mEgGA20ox1\_SNP1468\_Allele 1 | GAAGGTGACCAAGTTCATGCTATGAGAGGAAATTTATAAGGAAAAAAAAAAACA | T | G |
| mEgGA20ox1\_SNP1468\_Allele 2 | GAAGGTCGGAGTCAACGGATTATGAGAGGAAATTTATAAGGAAAAAAAAAAACC |   |   |
| mEgGA20ox1\_SNP1468\_common reverse primer | TGCACTTTGGGTAGGACAGAATAACAAAA |   |   |
|   |   |   |   |
| mEgExp4\_SNP118\_Allele 1 | GAAGGTGACCAAGTTCATGCTATAATTCATGAAAGATACGATAAAATTATTGGT | T | C |
| mEgExp4\_SNP118\_Allele 2 | GAAGGTCGGAGTCAACGGATTATAATTCATGAAAGATACGATAAAATTATTGGC |   |   |
| mEgExp4\_SNP118\_common reverse primer | CTCTTAGATAATTGAATCACCTAATATCAT |   |   |
|   |   |   |   |