

Supplementary Table 2 – Description of the target genes with respective nucleotide and protein accession numbers, primer sequences and amplicon size.

Target gene	NCBI nucleotide/ protein accession number	Primer sequence(forward/reverse)	Amplicon length (bp)
<i>QsCMT3</i> - Chromomethyltransferase 3	XM_024063870/ XP_023919638.1	AATGATTATCCTCTACCTGCTT/ TCATAACTCCCGACCCAAAA	224
<i>QsDRM2</i> - Domain rearranged methyltransferase 2	XP_023884319.1/ XM_024028551	TCGCTAATGAAGGCGGGTGT/ GTGTAGGGTTGGCAAGGAGG	191
<i>QsMET1</i> - DNA Methyltransferase 1	XP_023871673.1/ XM_024015905	ACAAGGAGGTCCACCACATA/ AGGTTTCGTTGGAAAGGCTAC	164
<i>QsMET2</i> - DNA Methyltransferase 2	XP_023891955.1/ XM_024036187	TCCCTTTGAAGAATGTTG/ GATGCCTGTTGCTACCTG	224 (Ramos et al., 2013)
<i>QsSWC4</i> - SWR1-complex protein 4	XP_023927278.1/ XM_024071510.1	CCTAAGCGTTCAAACCGTGGTG/ CTGGGCTGGCGATGATGGAG	141
<i>QsSUVH4</i> - H3K9 Histone-lysine N- methyltransferase	XP_023924619/ XM_024068851.1	CAACGTCCCTTGGTTCAACT/ TGCGATGTTCTACCTGTTGC	211
<i>QsATXR3</i> - Histone-lysine N-methyltransferase	QS126154.0 (http://corkoakdb.org)	TCACAATTAGGACGGCATGA/ ATGGGATTCGATCTTTGCAG	172
<i>QsATX3</i> - Histone-lysine N-methyltransferase	XP_023876913/ XM_024021145.1	GGACAGATATCAGGGGCAGA/ GCCGTCACAGGGTCTTGTAT	235