MOCS2-MOAD (molybdopterin synthase catalytic subunit)

a) BLAST between *Vitis vinifera* and *V corymbosum*



Scaffold 00225

106 aa

6448 bp

07 aa

6152 bp

b) BLAST between *Arabidopsis thaliana* and *V corymbosum*

01 aa

6149 bp

Scaffold 00225

96 aa

6448 bp

**Figure 1.** The tblastn alignment results comparing the MoaD gene from **(a)** *Vitis vinifera* (Wine grape) and **(b)** *Arabidopsis thaliana* with the *V corymbosum* (blueberry) scaffolds. The upper black bar is the MoaD gene in the query species and the lower colored bar is the matching segment in *V corymbosum* scaffold 00225. Numbers at the ends represent the amino acid alignment (top) and the nucleotide location in the *V corymbosum* scaffold (bottom).

**MOCS2-MOAD found in Scaffold 00225 (query sequence starts at base 6152 on scaffold)**

1)

For Primer GGTGTGAAGCCAAGAGAGAGAG

Rev Primer AAACAGCAGGTGTCTGTGCTAA

repeats (ct) x19 PCR product = 227 bp & start at base 76235

2)

For Primer AGCACACAGGAGGAAGAAGAAG

Rev Primer TTTAACCATAGGGCTTGAGGAA

repeats (ct) x12 PCR product = 149 bp & start at base 2025

3)

For Primer AGTAGGAAAGGATCAACCGTCA

Rev Primer CGAGCAAACTGGTCATTTGTAA

repeats (ag) x12 PCR product = 163 bp & start at base 124829