Gracie Gordon

Entry: 100252672

CDS T01084

Definition: folic acid synthesis protein fol1-like

Folate biosynthesis

Class: Metabolism; Metabolism of cofactors and vitamins; Folate biosynthesis

2.5.1.15 found in scaffold 00003 (query sequence starts at base 803754 on scaffold)

1)

For Primer AGTTCAGACAATTCAACGTCCA

Rev Primer AGTTCAGACAATTCAACGTCCA

Repeats (ag) x16 PCR product = 207 bp start at base 743328

2)

For Primer TGAAAACTCAGCCTAAACCCAG

Rev Primer ATGCTCCCTCTCTTTCCTCTCT

Repeats (ag) x10 PCR product = 206 bp start at base 811354

3)

For Primer CCTACAGACTGCCGTTTCTTCT

Rev Primer TCGTGACAAAATACACAGAGGG

Repeats (ga) x11 PCR product = 257 bp start at base 780006

2.5.1.15 found in scaffold 01432 (query sequence starts at base 60917 on scaffold)

1)

For Primer TCAGGCCAATTTTAGGAGGATA

Rev Primer GAAAACCGTGTAATTGAATGCC

Repeats (tta) x6 PCR product = 213 bp start at base 63373

2)

For Primer CAGTATCCTGGGATTTAGGTGG

Rev Primer GGTGAGTGTAACACCCCAAACT

Repeats (ga) x10 PCR product = 234 bp start at base 77019

3)

For Primer TACACACCTTTGGAGCTTGGTA

Rev Primer GGAATCACATATCAACCAAGGG

Repeats (tg) x9 PCR product = 290 bp start at base 77578



Fig 1. This is a map of the scaffold hits in Grape that match the folic acid synthesis protein sequence. The protein is 509 amino acids long, which is shown at the scale on the bottom.