|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Sequence (5’- 3’)\*** | **Amplicon lenght (bp)** | **Tm** | **[MgCl2]** |
| ELOVL6\_P\_Fw (S) | CCAGAGCTGGCAGGTTTTACTA | 605 | 60ºC | 2mM |
| ELOVL6\_P\_Rv (S) | CGGAGTCGCTACGTGTTCTCTA |
| ELOVL6\_e2\_Fw (S) | CCTGGTTTCTGCTCTGTATGCT | 94 | 60ºC | 2mM |
| ELOVL6\_e2\_Rv (S) | CAGCACTAATGGCTTCCTCAGTT |
| ELOVL6\_e4\_Fw (S) | TCACTGTGCTCCTGTACTCTTGG | 499 | 60ºC | 2mM |
| ELOVL6\_e4\_Rv (S) | TAAGCTGCCTTGGGTTTTGTG |
| Met\_F1\_Fw (M) | TGTGTTTTGTATTGGATTAGTTGG | 309 | 60ºC | 1.5mM |
| Met\_F1\_Rv (M) | [Btn]TCCCACRTAAAAAAATCAAACTTC |
| Met\_Seq1 (M) | YGTTTTTAGTATTTTTAGATAT | ---- | ---- | ---- |
| Met\_F2\_Fw (M) | GATTTGGAGGGTGTGGTAAGAGTA | 232 | 60ºC | 1.5mM |
| Met\_F2\_Rv (M) | [Btn]TCATCCACAACCTCAATCCT |
| Met\_Seq2 (M) | GAGGTGGGAAGTTTGA | ---- | ---- | ---- |
| Met\_F3\_Fw (M) | TAGGATTGAGGTTGTGGATGATT | 200 | 60ºC | 1.5mM |
| Met\_F3\_Rv (M) | [Btn]TCCATCACCCTTTTTACTTATCTACA |
| Met\_Seq3 (M) | TTTTTTTYGTAAAGGGTTAAT | ---- | ---- | ---- |
| Met\_F4\_Fw (M) | TGATTTTTTTTTTTTGGTTATTAG | 183 | 58ºC | 2.5mM |
| Met\_F4\_Rv (M) | [Btn]AATCAAACTTCCCACCTCCTTAC |
| Met\_Seq4 (M) | TGGTTATTAGTTATTTTTTATTTA | ---- | ---- | ---- |

**Additional file 1, Table S1:** Primers for the BAC screening (S) and the methylation study (M).

\*Biotin-labelled primers are marked with [Btn].