

**Additional file 8 – List of real-time PCR primer sequences**

| Gene name                                | Primer (5'–3')             |                             |
|------------------------------------------|----------------------------|-----------------------------|
|                                          | Forward                    | Reverse                     |
| Acetyl-CoA acetyltransferase             | TCTAGGAAAGTTCGATGCTGCT     | GCCACCAGTCTCCTTGAAAC        |
| Hydroxymethyl glutaryl CoA synthase      | GCTGGCACCATTTTCAACTT       | CTTTTCAAGGTCCCGGCTA         |
| Mevalonate kinase                        | AAACTTGCTACCAAATTGACAGG    | TGGGTAACAGTGTCAGAACACA      |
| Mevalonate diphosphosphate decarboxylase | CTTGGCACATGCAAAAGGTA       | TTCAGTCCCTGACAATCTTCC       |
| Isopentenylpyrophosphate isomerase       | CTTCTCAAAAATTCTATCTCCCTCA  | AAGAGATAGGCACCGGAGTTT       |
| Farnesyl diphosphate synthase            | TGCACTTGGTTGGTGCAT         | CATAATATCATCAAGCACCAGAAAATA |
| Squalene synthase                        | ATGTCGATAAACTTGAGGACTTAAAT | TCATTTAGGCACCGCACTG         |
| Squalene epoxidase                       | TCTAGGAAAGTTCGATGCTGCT     | GCCACCAGTCTCCTTGAAAC        |
| Aspartate transaminase                   | TTCTGGCTTTTCCCTTCAAGT      | CCGGCAGTAGATCCACATTT        |
| Strictosidine synthase                   | ATCCGACGGGGTACAAAGTT       | GATCATCGAGATCAAGCAAGC       |
| Histidinol-phosphate transaminase        | TGTCTCTGTCACCGGAAAAGT      | CGTGATCATCTAGGGTTTGGA       |
| CYP716A53v2                              | AAGCACCTCTCAATCCCAAG       | GACACCATCACCAGAATCCA        |
| Actin                                    | TCGGACAACGAGGCAGCACTTT     | GCTAAAGAGCAGCCAACAGGCC      |