**Additional file 16: Table S5** Summary of putative genes of CYP450s family in lavender.

| Name | No. | unigenes |
| --- | --- | --- |
| CYP26A | 4 | DN51200\_c1\_g3; DN62140\_c0\_g1; DN2141\_c0\_g1; DN53256\_c0\_g6 |
| CYP701A40 | 1 | DN45294\_c1\_g1 |
| CYP704C1 | 4 | DN54251\_c1\_g1; DN54251\_c1\_g2; DN52947\_c2\_g1; DN57308\_c4\_g11 |
| CYP707A1 | 1 | DN53370\_c2\_g1 |
| CYP707A2 | 1 | DN51009\_c5\_g2 |
| CYP707A3 | 1 | DN45505\_c4\_g4 |
| CYP711A1 | 1 | DN56628\_c1\_g2 |
| CYP714A2 | 1 | DN49894\_c0\_g1 |
| CYP714C2 | 8 | DN48711\_c7\_g3; DN54490\_c0\_g3; DN56369\_c2\_g6; DN47909\_c4\_g3; DN56369\_c2\_g1; DN56369\_c2\_g2; DN56369\_c2\_g3; DN56369\_c2\_g7 |
| CYP716A89 | 1 | DN48439\_c0\_g3 |
| CYP71A1 | 3 | DN50254\_c3\_g6; DN40252\_c0\_g3; DN45282\_c1\_g1 |
| CYP71A6 | 1 | DN39854\_c1\_g2 |
| CYP71A8 | 2 | DN41273\_c0\_g1; DN22690\_c0\_g1 |
| CYP71D10 | 1 | DN45475\_c4\_g2 |
| CYP71D13 | 1 | DN47320\_c0\_g1 |
| CYP71D55 | 1 | DN46629\_c0\_g1 |
| CYP725A1 | 1 | DN51921\_c0\_g2 |
| CYP72A219 | 8 | DN48660\_c1\_g4; DN48657\_c3\_g1; DN55623\_c1\_g1; DN45009\_c1\_g5; DN45009\_c1\_g6; DN46458\_c0\_g1; DN56960\_c1\_g1; DN56960\_c2\_g5 |
| CYP736A12 | 6 | DN53587\_c1\_g3; DN51606\_c0\_g1; DN46598\_c3\_g2; DN45649\_c0\_g3; DN53587\_c1\_g2; DN45649\_c0\_g2 |
| CYP73A4 | 2 | DN41887\_c0\_g5; DN51454\_c1\_g1 |
| CYP749A22 | 2 | DN50593\_c1\_g4; DN51895\_c0\_g3 |
| CYP74A | 1 | DN45486\_c1\_g1 |
| CYP75A2 | 1 | DN50266\_c0\_g1 |
| CYP75A3 | 2 | DN51437\_c0\_g1; DN51437\_c0\_g3 |
| CYP75B1 | 1 | DN46460\_c2\_g1 |
| CYP75B2 | 1 | DN45491\_c0\_g2 |
| CYP76A2 | 1 | DN52126\_c1\_g3 |
| CYP76AH1 | 3 | DN52877\_c1\_g1; DN55169\_c0\_g1; DN50237\_c0\_g1 |
| CYP76B1 | 1 | DN51691\_c2\_g7 |
| CYP76B6 | 1 | DN51990\_c0\_g1 |
| CYP77A1 | 1 | DN53204\_c1\_g1 |
| CYP77A2 | 1 | DN43602\_c0\_g1 |
| CYP77A3 | 1 | DN49104\_c0\_g1 |
| CYP78A7 | 1 | DN46851\_c0\_g1 |
| CYP78A9 | 1 | DN40623\_c0\_g1 |
| CYP79A2 | 1 | DN36017\_c0\_g2 |
| CYP80B2 | 1 | DN42827\_c1\_g2 |
| CYP81D11 | 1 | DN47603\_c0\_g1 |
| CYP81E8 | 3 | DN52484\_c2\_g1; DN44532\_c0\_g1; DN48348\_c3\_g1 |
| CYP82A3 | 2 | DN36861\_c0\_g3; DN44205\_c0\_g1 |
| CYP82C2 | 1 | DN41762\_c1\_g2 |
| CYP82G1 | 1 | DN77382\_c0\_g1 |
| CYP83B1 | 1 | DN54433\_c0\_g2 |
| CYP84A1 | 1 | DN39855\_c0\_g1 |
| CYP85A1 | 1 | DN54737\_c1\_g2 |
| CYP86A1 | 1 | DN49176\_c0\_g1 |
| CYP86A2 | 2 | DN52406\_c4\_g2; DN52406\_c4\_g4 |
| CYP86A7 | 1 | DN52406\_c4\_g3 |
| CYP86B1 | 1 | DN34299\_c1\_g1 |
| CYP88A52 | 1 | DN51152\_c2\_g2 |
| CYP89A2 | 1 | DN56491\_c1\_g2 |
| CYP90A1 | 1 | DN52420\_c1\_g1 |
| CYP90B1 | 1 | DN51763\_c0\_g2 |
| CYP90C19 | 1 | DN50971\_c1\_g3 |
| CYP90D1 | 1 | DN40451\_c0\_g1 |
| CYP93B1 | 1 | DN52410\_c0\_g3 |
| CYP94A1 | 1 | DN45700\_c0\_g1 |
| CYP94B1 | 1 | DN30910\_c0\_g2 |
| CYP94B3 | 4 | DN30910\_c0\_g1; DN49586\_c0\_g1; DN49586\_c0\_g2; DN53566\_c0\_g1 |
| CYP94C1 | 2 | DN45560\_c0\_g1; DN49918\_c2\_g1 |
| CYP94D47 | 1 | DN55874\_c0\_g1 |
| CYP96A15 | 3 | DN50838\_c0\_g4; DN29486\_c0\_g1; DN50838\_c0\_g2 |
| CYP98A3 | 2 | DN48869\_c1\_g2; DN49166\_c1\_g3 |