

Table S1 Primers used in the study

Name	Primers
pTEF1-VvCPR-F	<u>AAGTTTAAATTACAAACTCGAGATGCAATCATCCTCCGTAAAG</u>
CPS1t-VvCPR-R	<u>TTCAATCATTGCGCGGCGCGCCTATTACCAGACATCTCTCAAGTA</u>
pTEF1-VcCYP90B27-F	<u>CTAAGTTTAAATTACAAACTCGAGATGGCTATGGAATTGTTGTTGT</u>
ADH1t-VcCYP90B27-R	<u>CATAAGAAATTCGCGGCGCGCCTATTAGTCACCCAATGGTCTAAC</u>
pFBA1-VcCYP94N1-F	<u>AAGTAATACATATTCAAACCTCGAGATGGATTTGCCATCTGCTTCAG</u>
TDH2t-VcCYP94N1-R	<u>AGGAGTTAAATTTAGGCGCGCCTATTAACAACCACGCTTCTTTC</u>
pTDH3-VcGABAT-F	<u>CACACATAAAACAAACAACTCGAGATGGGATCCACTGAGGCGC</u>
FBA1t-VcGABAT-R	<u>TAATTTGAATTAACGGCGCGCCTATTAAGTTGCGGTATTCTGAGA</u>
pPGK1-VcCYP90G1-F	<u>TACAACAAATATAAAACACTCGAGATGACTCCATTAGTTGTTCTCT</u>
CYC1t-VcCYP90G1-R	<u>CGGTTAGAGCGGATGGCGCGCCTATTATTGGAGGAGCGAAAGCC</u>
ATF2up-VcCYP90B27-F	<u>CCACAATCTCAGGCTACATTGAACTCTGTAGGCCACCGATAAATATTGCGA</u> <u>AGTGATCCCCCACACACCAT</u>
VcCYP94N1-VcCYP90B27-R	<u>GGCTGGTATTGTTGTTCAAGCCAGCGGTGCGAGCGACCTCATGCTATACC</u>
VcCYP90B27-VcCYP94N1-F	<u>GCTTTCTCAGGTATAGCATGAGGTCGCTCGCACCGCTGGCTTGAACAACA</u>
VcGABAT-VcCYP94N1-R	<u>TTGTTGACGCTAACATTCAACGCTAGTATGCGAAAAGCCAATTAGTGTGA</u>
VcCYP94N1-VcGABAT-F	<u>CTTAGTATCACACTAATTGGCTTTTCGCATACTAGCGTTGAATGTTAGCG</u>
VcCYP90G1-VcGABAT-R	<u>TAAAAGCAATTACAGTATGGGAAGTCAATGTTGGAGGATAAAGTAAGCTA</u>
VcGABAT-VcCYP90G1-F	<u>CATAGTAGCTTACTTTATCCTCCAACATTGACTTCCCATACTGTAATTGC</u>
ATF2dn-VcCYP90G1-F	<u>AATAGATTAAATACAAAAGATTTATTATACATGCGAGGTAAGACTATTGTCT</u> <u>TCGAGCGTCCCCAAACCT</u>
pTEF1-DrDHCR7-F	<u>AAGTTTAAATTACAAACTCGAGATGATGGCTTCTGATAGAGTTA</u>
PDC1t-DrDHCR7-R	<u>AGAGATTAAATCGCGGCGCGCCTATTAAAAAATATTTGGCAACAATCT</u>
pTDH3-GgDHCR24-F	<u>CACATAAAACAAACAACTCGAGATGTCTGCTGTTTGGTCTTTG</u>
ENO2t-GgDHCR24-R	<u>TAGTTAAAAGCACTGGCGCGCCTATTAATGTCTAGCAGCTTTACAAA</u>
ERG1-F	<u>AAGTTTAATAACTCGAAAATTCTGCGTTATACTAGCGTTGAATGTTAGCG</u>
ERG1-R	<u>ATCTTGCAGTCCATCCTCGTCGCTTTATTATCGATAATATAGGTATACAAGA</u> <u>GCGACCTCATGCTATACC</u>
δDNAup-F	<u>TAGTATATTATCATATACGGTGT</u>
DrDHCR7-ERG1-R	<u>TGAAGCTATGGTGTGTGGGGGATCACTTTTGACACTTGATTTGACACTTC</u>
ERG1-DrDHCR7-F	<u>AAAAAAAAGAAGTGTCAAATCAAGTGTCAAAGTGATCCCCCACACACC</u> <u>A</u>
GgDHCR24-DrDHCR7-R	<u>GTTGACGCTAACATTCAACGCTAGTATTGGCAGTTTGAATTGAGTAACC</u>
DrDHCR7-GgDHCR24-F	<u>ATAATGGTTACTCAATTCAAACTGCCAATACTAGCGTTGAATGTTAGCG</u>
Leu-GgDHCR24-R	<u>CCTGAGTATTCACAGTTGTGCGACATTTTCAAACCTGCAAATTCAAGAA</u>
GgDHCR24-Leu-F	<u>TCTTGAATTTGCAGTTTGAAAAATGTGCGACAACTGTGGGAATACTCAGGT</u>
δDNA _{dn} -R	<u>GCAGGTGTTGTTGTCTGTTG</u>