

## SNV Distributions on Chromosome 2

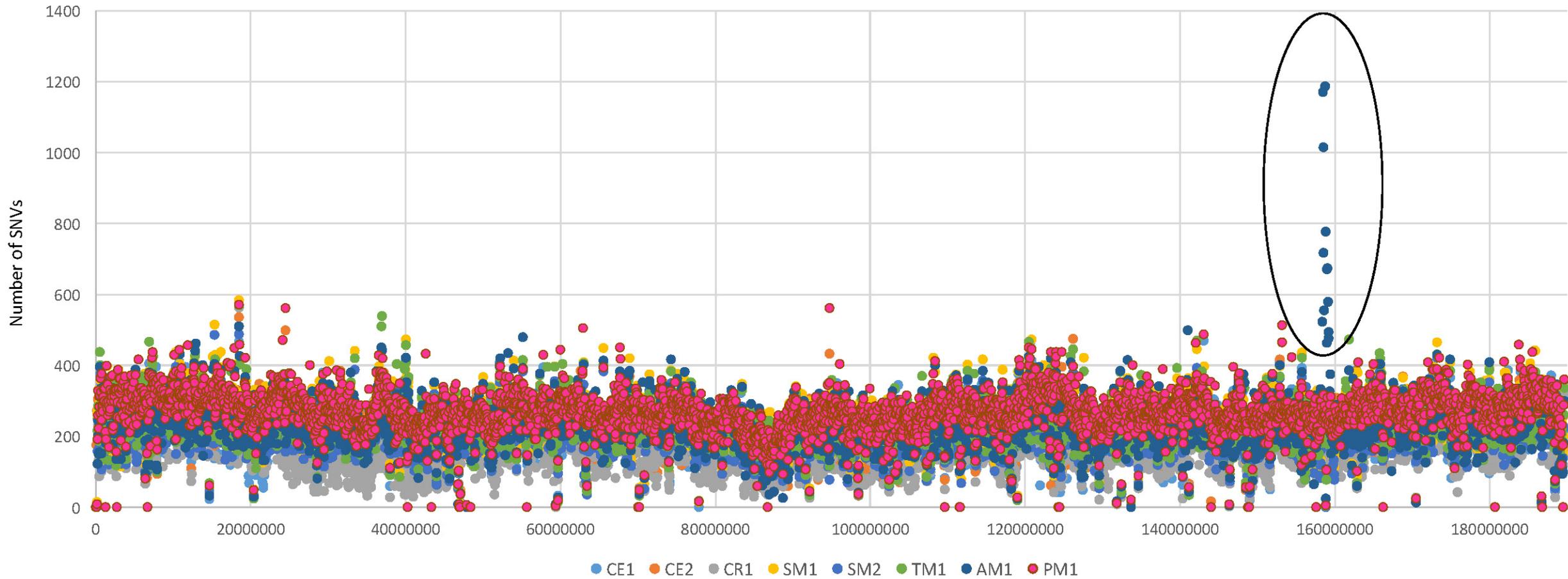


Figure S1. The twelve windows on chromosome 2, labelled in the circle, of Assamese macaque (*M. assamensis*) exhibiting very high SNV frequency.

Cyclophosphamide & Ifosfamide

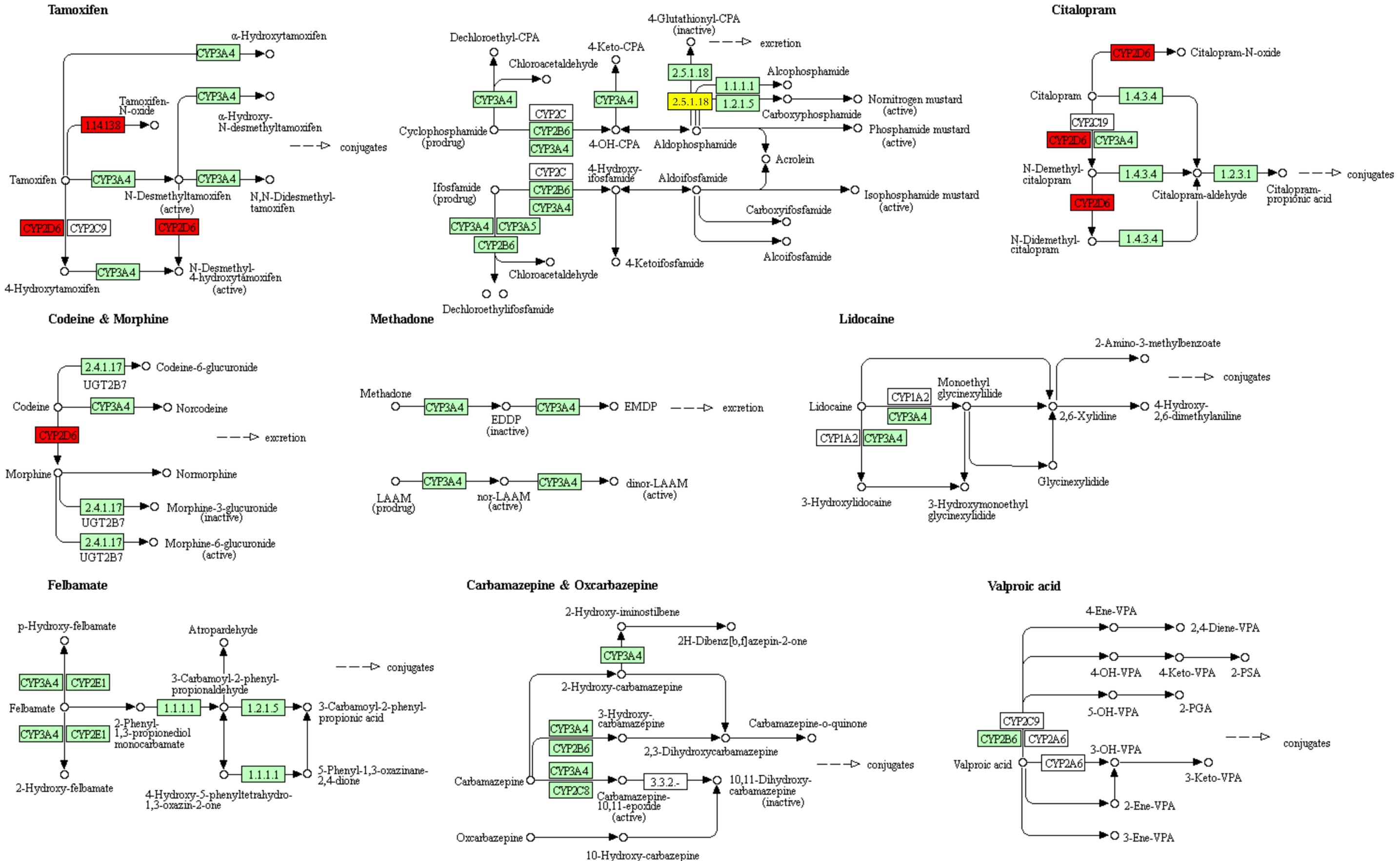


Figure S2. Drug metabolism - cytochrome P450 pathway. The genes with scrSNVs in two cynomolgus macaques (*M. fascicularis*), stump-tailed macaque (*M. arctoides*) and Assamese macaque (*M. assamensis*) are indicated in red boxes. The gene in yellow box is only found in Malaysia cynomolgus macaque with scrSNVs.

PPAR SIGNALING PATHWAY

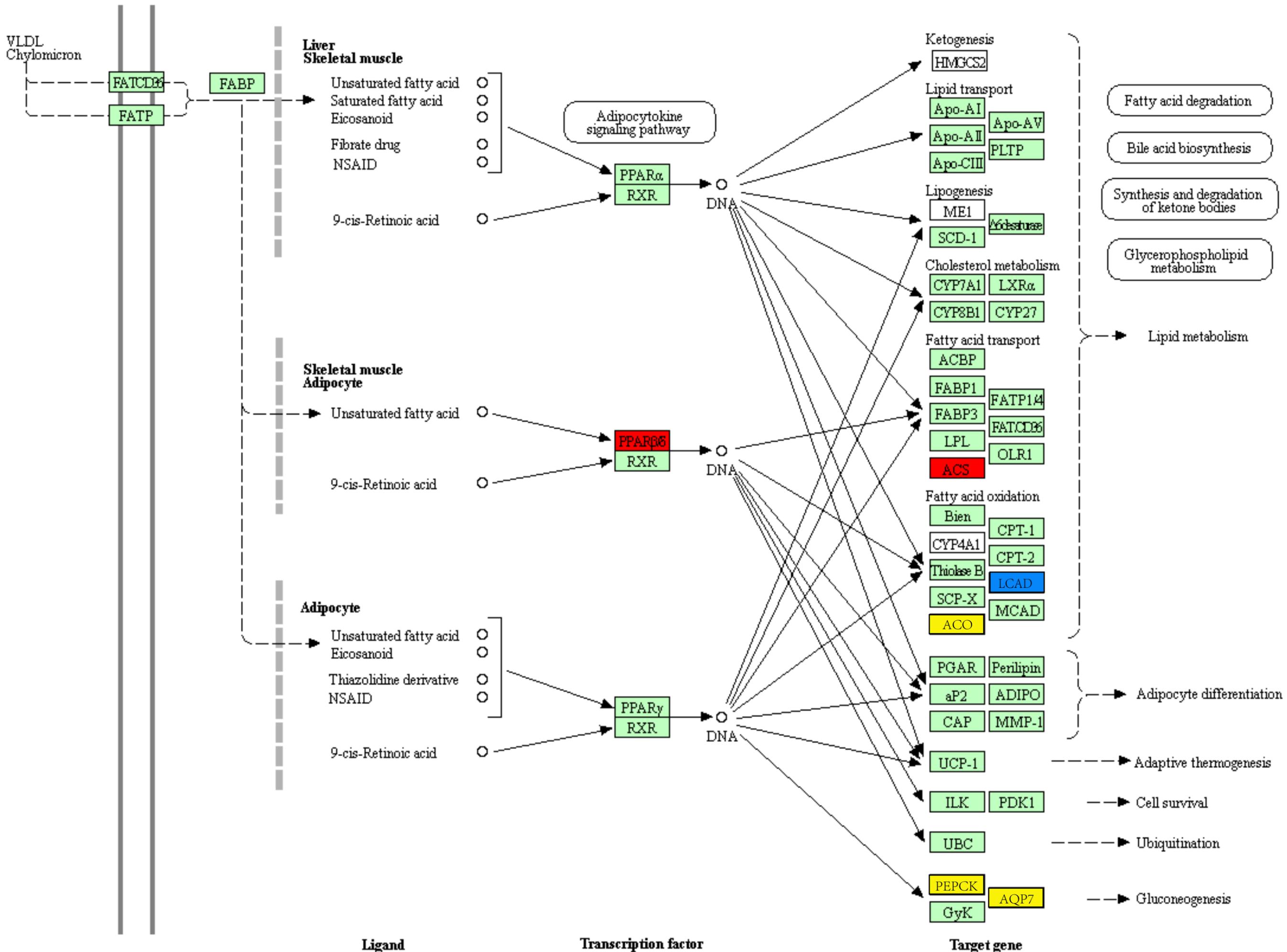


Figure S3. PPAR signaling pathway. The genes with scrSNVs for Tibetan macaque (*M. thibetana*) are indicated in red boxes. And these in southern pig-tailed macaque (*M. nemestrina*) are labelled in yellow. The gene with scrSNVs shared by two species is labelled in blue box.

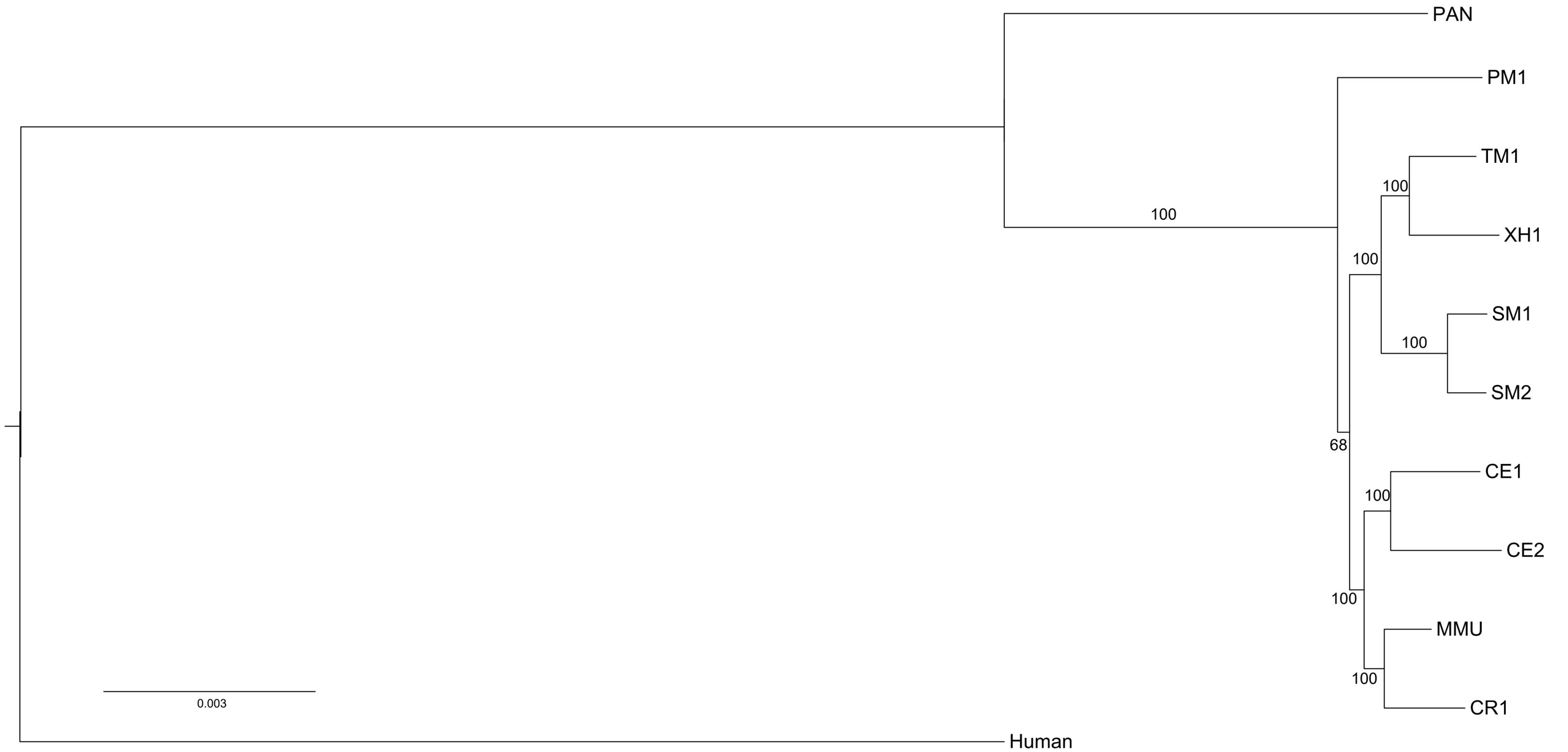


Figure S4. Phylogenetic tree of the Macaca species/populations, the olive baboon and human was reconstructed with RAxML based on the orthologous sequences, used as the working topology for positive selection analysis.