

Table S3. Pairwise comparisons of the dosage response curves for androstadienone between the hypothetical hominine ancestor and each synthetic mutant with an F test

	EC50	F (DFn, DFd)	P value
hominine	0.044		
L17F	0.067	0.6002 (1,20)	> 0.05
V26I	0.19	6.253 (1,20)	> 0.05
N84S	1.1	70.50 (1,20)	< 0.01**
S89I	0.15	5.983 (1,20)	> 0.05
I160V	0.0075	19.29 (1,20)	< 0.01**
G171V	0.0081	20.74 (1,20)	< 0.01**
R227G	1.0	56.01 (1,20)	< 0.01**
M228T	1.4	66.71 (1,20)	< 0.01**
E232K	0.05	0.1379 (1,20)	> 0.05
M273T	0.55	60.77 (1,20)	< 0.01**

EC50 values for responses to androstadienone are given in μM . An F test is used to compare the best-fit values of EC50 of the dosage response curves between the hypothetical hominine ancestor and each synthetic mutant. (See Fig. S5 for the dosage response curves.) F value, DF_n, DF_d, and P values are shown for the synthetic mutants. A Bonferroni correction was applied to the F test. Before correction: * * P < 0.005, ** P < 0.001, *** P < 0.0001. After correction: * P < 0.05, ** P < 0.01. Asterisks shown represent significance of P values after correction. DF_n, numerator degrees of freedom. DF_d, denominator degrees of freedom.