

S4 Table. The eight *EPAS1* SNPs on chromosome 2 with genome-wide significant association with oxyHb. POS column is for the genomic position in hg19. REF, ALT and DEN columns show reference, alternative and Denisovan alleles, respectively. TBN and CHB present alternative allele frequencies in our Tibetan data and 1KGP CHB, respectively. Effect size estimates β 's are calculated per alternative allele. SNPs with a derived allele shared between Tibetans and Denisovan are marked in bold face.

SNP	POS	REF	ALT	DEN	TBN	CHB	β_{oxyHb}	P_{oxyHb}	β_{Hb}	P_{Hb}
rs374487821	46571435	G	C	C	0.753	0.005	-0.369	4.00×10^{-8}	-0.378	4.10×10^{-7}
rs76242811	46576918	T	C	C	0.749	0.010	-0.374	2.59×10^{-8}	-0.383	1.76×10^{-7}
rs188801636	46577251	T	C	C	0.749	0.010	-0.374	1.34×10^{-8}	-0.383	1.76×10^{-7}
rs375554942	46579689	A	G	G	0.748	0.010	-0.369	1.95×10^{-8}	-0.380	1.91×10^{-7}
rs189807021	46583581	G	A	G	0.748	0.010	-0.370	1.77×10^{-8}	-0.383	1.65×10^{-7}
rs372272284	46584859	A	G	G	0.752	0.010	-0.386	5.71×10^{-9}	-0.396	7.70×10^{-8}
rs150877473	46588019	C	G	C	0.748	0.010	-0.369	2.06×10^{-8}	-0.380	2.18×10^{-7}
rs142826801	46588331	G	C	G	0.745	0.010	-0.371	2.14×10^{-8}	-0.384	1.84×10^{-7}