Table S16. Nucleotide Substitutions in *CSTA* gene in introns and regulatory regions

Genomic Coordinates (hg19)	Gene Region			Chagyrskaya (Variant Frequency)	Vindija (Variant Frequency)	Denisova (Variant Frequency)	Codon → amino acid
122,043,603	Upstream regions	**C**	**T** (100%)	**T** (100%)	**T** (100%)	**T** (100%)	
122,043,745	Upstream regions	**A**	**delA** (44%)	**A** (100%)	**A** (100%)	**A** (100%)	
122,043,915	Upstream regions	**C**	**C** (100%)	**C** (100%)	**T** (13%)	**C** (96%)	
122,043,921	Upstream regions	**C**	**C** (100%)	**T** (4%)*	**T** (19%)	**C** (100%)	
122,043,922	Upstream regions	**C**	**C** (100%)	**T** (9%)*	**T** (13%)	**C** (100%)	
122,043,924	Upstream regions	**C**	**T** (3%)*	**C** (100%)	**T** (13%)	**C** (100%)	
122,043,947	Upstream regions	**G**	**G** (100%)	**A** (4%)*	**A** (12%)	**G** (100%)	
122,043,969	Upstream regions	**G**	**G** (100%)	**A** (14%)	**G** (100%)	**G** (100%)	
122,043,999	Upstream regions	**C**	**C** (100%)	**T** (13%)	**C** (97%)	**C** (100%)	
122,044,000	Upstream regions	**C**	**C** (100%)	**T** (12%)	**C** (100%)	**C** (100%)	
122,044,015	5′ UTR	**G**	**G** (100%)	**G** (100%)	**A** (15%)	**G** (100%)	
122,044,027	5′ UTR	**T**	**C** (100%)	**C** (96%)	**C** (100%)	**T** (100%)	
122,044,060	5′ UTR	**T**	**T** (100%)	**T** (100%)	**T** (100%)	**C** (100%)	
122,044,070	5′ UTR	**C**	**C** (100%)	**T** (16%)	**T** (2%)*	**C** (100%)	
122,044,134	5′ UTR	**G**	**G** (100%)	**A** (12%)	**G** (100%)	**G** (100%)	
122,044,205	Exon 1	**AAG**	AA**G** (100%)	AA**A** (11%)	AA**G** (100%)	AA**G** (100%)	AAG→K_{22} AAA→K_{22}
122,044,505	Intron 1	**C**	**C** (100%)	**T** (11%)	**T** (2%)*	**C** (100%)	
122,044,573	Intron 1	**G**	**G** (100%)	**A** (11%)	**A** (4%)*	**G** (100%)	
122,044,641	Intron 1	**G**	**G** (100%)	**A** (4%)*	**A** (13%)	**G** (100%)	
122,044,660	Intron 1	**G**	**G** (100%)	**A** (20%)	**A** (3%)*	**G** (100%)	
122,044,705	Intron 1	**G**	**G** (100%)	**G** (100%)	**A** (15%)	**G** (100%)	
122,044,728	Intron 1	**A**	**G** (100%)	**G** (100%)	**G** (100%)	**G** (100%)	
122,044,745	Intron 1	**G**	**G** (100%)	**A** (4%)*	**A** (12%)	**G** (100%)	
122,044,779	Intron 1	**G**	**A** (97%)	**A** (100%)	**A** (100%)	**G** (100%)	
122,044,828	Intron 1	**G**	**G** (100%)	**G** (97%)	**A** (11%)	**G** (100%)	
122,044,848-122,044,850	Intron 1	**CTT**	**CTT** (100%)	**CTT** (97%)	**CTT** (100%)	**delCTT** (97%)	
122,044,889	Intron 1	**G**	**G** (100%)	**G** (96%)	**A** (11%)	**G** (100%)	
122,044,920	Intron 1	**C**	**C** (100%)	**C** (100%)	**T** (11%)	**C** (100%)	
122,044,969	Intron 1	**G**	**A** (2%)*	**G** (100%)	**A** (14%)	**G** (97%)	

122,044,991	Intron 1	**G**	**G** (100%)	**A** (3%)*	**A** (14%)	**G** (100%)
122,045,178	Intron 1	**C**	**C** (100%)	**T** (13%)	**C** (100%)	**C** (100%)
122,045,216	Intron 1	**C**	**C** (98%)	**T** (11%)	**T** (5%)*	**C** (100%)
122,045,274	Intron 1	**C**	**T** (100%)	**T** (100%)	**T** (100%)	**T** (100%)
122,045,618	Intron 1	**C**	**T** (2%)*	**T** (15%)	**C** (100%)	**C** (100%)
122,045,651	Intron 1	**C**	**T** (100%)	**T** (100%)	**T** (100%)	**C** (100%)
122,045,653	Intron 1	**G**	**G** (100%)	**A** (3%)*	**A** (12%)	**G** (100%)
122,045,716	Intron 1	**C**	**C** (100%)	**T** (3%)*	**T** (13%)	**C** (100%)
122,045,719	Intron 1	**C**	**T** (2%)*	**T** (3%)*	**T** (11%)	**C** (100%)
122,045,744	Intron 1	**C**	**T** (3%)*	**T** (12%)	**C** (100%)	**C** (100%)
122,045,800	Intron 1	**G**	**G** (100%)	**A** (11%)	**G** (100%)	**G** (100%)
122,045,943	Intron 1	**A**	**G** (34%)	**G** (31%)	**G** (10%)*	**A** (100%)
122,045,955	Intron 1	**G**	**G** (100%)	**G** (100%)	**C** (11%)	**C** (3%)*
122,046,021	Intron 1	**G**	**G** (97%)	**A** (4%)*	**A** (11%)	**G** (100%)
122,046,022	Intron 1	**G**	**G** (100%)	**A** (11%)	**A** (5%)*	**G** (100%)
122,046,049	Intron 1	**C**	**C** (100%)	**T** (11%)	**T** (8%)*	**C** (100%)
122,046,094	Intron 1	**G**	**A** (9%)*	**A** (8%)*	**A** (15%)	**A** (16%)
122,046,099	Intron 1	**A**	**G** (60%)	**G** (35%)	**G** (32%)	**G** (6%)*
122,046,103	Intron 1	**G**	**A** (10%)*	**A** (18%)	**A** (10%)*	**A** (6%)*
122,046,105	Intron 1	**A**	**G** (2%)*	**G** (11%)	**G** (3%)*	**A** (100%)
122,046,115	Intron 1	**A**	**G** (38%)	**G** (23%)	**G** (19%)	**G** (26%)
122,046,237	Intron 1	**G**	**A** (34%)	**G** (100%)	**A** (3%)*	**G** (100%)
122,046,375	Intron 1	**C**	**C** (91%)	**C** (100%)**	**T** (24%)	**T** (6%)*
122,046,376	Intron 1	**A**	**C** (5%)*	**A** (87%)**	**C** (14%)	**C** (6%)*
122,046,484	Intron 1	**G**	**G** (100%)	**A** (11%)	**G** (100%)	**G** (100%)
122,046,597	Intron 1	**A**	**delA** (94%)	**delA** (68%)	**delA** (86%)	**delA** (95%)
122,046,607	Intron 1	**C**	**C** (100%)	**T** (13%)	**T** (3%)*	**C** (100%)
122,046,627	Intron 1	**C**	**C** (100%)	**T** (3%)*	**T** (11%)	**C** (100%)
122,046,647	Intron 1	**G**	**G** (100%)	**A** (4%)*	**A** (11%)	**G** (100%)
122,046,850	Intron 1	**C**	**C** (100%)	**T** (13%)	**C** (100%)	**C** (100%)
122,046,860	Intron 1	**C**	**C** (100%)	**C** (100%)	**T** (14%)	**C** (100%)
122,046,888	Intron 1	**G**	**G** (100%)	**A** (17%)	**A** (5%)*	**G** (100%)
122,046,914	Intron 1	**C**	**C** (94%)	**T** (8%)*	**T** (13%)	**T** (4%)*
122,046,915	Intron 1	**C**	**C** (100%)	**T** (8%)*	**T** (16%)	**C** (100%)
122,046,950	Intron 1	**C**	**C** (100%)	**T** (14%)	**T** (10%)*	**C** (100%)

122,046,964	Intron 1	**C**	**C** (100%)	**T** (5%)*	**T** (13%)	**C** (100%)
122,047,111	Intron 1	**G**	**G** (100%)	**G** (100%)	**A** (13%)	**G** (97%)
122,047,205	Intron 1	**C**	**C** (95%)	**C** (100%)	**C** (100%)	**G** (10%)*
122,047,209	Intron 1	**G**	**G** (100%)	**G** (100%)	**G** (100%)	**A** (53%)
122,047,289	Intron 1	**G**	**G** (98%)	**G** (100%)	**A** (11%)	**G** (100%)
122,047,341	Intron 1	**C**	**C** (100%)	**C** (92%)	**T** (12%)	**C** (100%)
122,047,347	Intron 1	**A**	**delA** (16%)	**delA** (9%)*	**delA** (8%)*	**delA** (30%) **InsA** (30%)
122,047,348	Intron 1	**A**	**delA** (11%)	**delA** (10%)**	**delA** (3%)*	**delA** (10%)*
122,047,367	Intron 1	**G**	**A** (13%)	**G** (100%)**	**G** (100%)	**G** (100%)
122,047,394	Intron 1	**C**	**C** (100%)	**T** (12%)	**T** (10%)*	**C** (100%)
122,047,419	Intron 1	**C**	**C** (100%)	**T** (5%)*	**T** (12%)	**C** (100%)
122,047,424	Intron 1	**C**	**C** (100%)	**C** (100%)	**T** (18%)	**C** (100%)
122,047,427	Intron 1	**C**	**C** (100%)	**T** (4%)*	**T** (11%)	**C** (100%)
122,047,528	Intron 1	**G**	**G** (100%)	**A** (4%)*	**A** (11%)	**G** (100%)
122,047,591	Intron 1	**T**	**C** (86%)	**C** (68%)	**C** (61%)	**T** (100%)
122,047,724	Intron 1	**G**	**A** (3%)*	**A** (5%)*	**A** (13%)	**G** (100%)
122,047,735	Intron 1	**C**	**C** (100%)	**C** (95%)	**C** (100%)	**A** (90%)
122,047,737	Intron 1	**G**	**G** (100%)	**A** (52%)	**A** (33%)	**G** (100%)
122,047,813	Intron 1	**T**	**T** (100%)	**T** (100%)	**T** (100%)	**A** (92%)
122,047,823	Intron 1	**T**	**InsT** (78%)	**InsT** (34%)	**InsT** (65%)	**delT** (22%)
122,047,833	Intron 1	**G**	**G** (100%)	**T** (27%)	**G** (98%)	**G** (100%)
122,047,834	Intron 1	**A**	**A** (100%)	**G** (11%)	**A** (98%)	**A** (100%)
122,047,869	Intron 1	**G**	**G** (100%)	**A** (11%)	**A** (3%)*	**G** (100%)
122,047,997	Intron 1	**T**	**C** (2%)*	**T** (100%)	**T** (100%)	**C** (25%)
122,048,070	Intron 1	**C**	**C** (100%)	**T** (12%)	**T** (3%)*	**C** (100%)
122,048,094	Intron 1	**T**	**T** (100%)	**T** (100%)	**T** (100%)	**G** (23%)
122,048,101	Intron 1	**C**	**C** (100%)	**T** (13%)	**T** (2%)*	**C** (100%)
122,048,102	Intron 1	**C**	**C** (100%)	**T** (13%)	**C** (100%)	**T** (4%)*
122,048,132	Intron 1	**C**	**C** (100%)	**C** (100%)	**C** (100%)	**T** (100%)
122,048,149	Intron 1	**G**	**A** (5%)*	**G** (100%)	**A** (11%)	**A** (7%)*
122,048,153	Intron 1	**G**	**G** (100%)	**G** (100%)	**A** (13%)	**G** (100%)
122,048,159	Intron 1	**G**	**G** (100%)	**A** (15%)	**G** (100%)	**A** (3%)*
122,048,180	Intron 1	**G**	**G** (98%)	**A** (10%)*	**A** (12%)	**G** (100%)
122,048,192	Intron 1	**G**	**G** (100%)	**G** (100%)	**A** (12%)	**A** (3%)*

122,048,253	Intron 1	**T**	**T** (100%)	**C** (11%)	**T** (97%)	**T** (100%)
122,048,254	Intron 1	**C**	**C** (100%)	**T** (11%)	**T** (6%)*	**C** (100%)
122,048,256	Intron 1	**A**	**delA** (96%)	**delA** (89%)	**delA** (94%)	**A** (100%)
122,048,285	Intron 1	**C**	**T** (2%)*	**T** (11%)	**T** (4%)*	**C** (100%)
122,048,321	Intron 1	**G**	**G** (100%)	**A** (12%)	**G** (100%)	**G** (100%)
122,048,333	Intron 1	**C**	**C** (100%)	**T** (12%)	**T** (11%)	**C** (100%)
122,048,526	Intron 1	**G**	**A** (2%)*	**G** (100%)	**A** (14%)	**G** (100%)
122,048,686	Intron 1	**C**	**C** (100%)	**C** (97%)	**T** (11%)	**C** (100%)
122,048,748	Intron 1	**G**	**G** (100%)	**A** (16%)	**A** (10%)*	**G** (100%)
122,048,788	Intron 1	**G**	**G** (100%)	**A** (11%)	**A** (4%)*	**G** (100%)
122,048,790	Intron 1	**C**	**C** (100%)	**T** (11%)	**C** (100%)	**C** (100%)
122,048,826	Intron 1	**G**	**G** (100%)	**A** (13%)	**A** (12%)	**G** (100%)
122,048,893	Intron 1	**C**	**C** (100%)	**T** (6%)*	**T** (12%)	**C** (100%)
122,048,909	Intron 1	**G**	**G** (100%)	**A** (4%)*	**A** (13%)	**G** (100%)
122,048,912	Intron 1	**G**	**G** (100%)	**G** (100%)	**A** (14%)	**G** (100%)
122,048,916	Intron 1	**G**	**G** (100%)	**G** (100%)	**A** (17%)	**G** (100%)
122,048,939	Intron 1	**G**	**G** (99%)	**A** (6%)*	**A** (11%)	**G** (100%)
122,048,976	Intron 1	**G**	**G** (100%)	**G** (100%)	**A** (14%)	**G** (100%)
122,048,998	Intron 1	**G**	**G** (100%)	**A** (7%)*	**A** (11%)	**G** (100%)
122,049,000	Intron 1	**G**	**G** (100%)	**A** (3%)*	**A** (11%)	**G** (100%)
122,049,018	Intron 1	**G**	**G** (100%)	**A** (12%)	**A** (5%)*	**G** (100%)
122,049,027	Intron 1	**G**	**G** (100%)	**G** (100%)	**A** (13%)	**G** (100%)
122,049,047	Intron 1	**C**	**C** (100%)	**C** (100%)	**T** (22%)	**C** (100%)
122,049,049	Intron 1	**C**	**C** (100%)	**C** (100%)	**T** (11%)	**C** (100%)
122,049,242	Intron 1	**C**	**C** (100%)	**T** (12%)	**C** (100%)	**C** (100%)
122,049,260	Intron 1	**G**	**G** (100%)	**A** (3%)*	**A** (16%)	**G** (100%)
122,049,409	Intron 1	**C**	**C** (100%)	**C** (100%)	**T** (13%)	**C** (100%)
122,049,602	Intron 1	**G**	**G** (100%)	**A** (4%)*	**A** (11%)	**G** (100%)
122,049,635	Intron 1	**G**	**A** (3%)*	**A** (15%)	**A** (7%)*	**G** (100%)
122,049,655	Intron 1	**C**	**T** (2%)*	**T** (3%)*	**T** (13%)	**C** (100%)
122,049,699	Intron 1	**C**	**T** (2%)*	**C** (100%)	**T** (15%)	**C** (100%)
122,049,712	Intron 1	**A**	**T** (98%)	**T** (100%)	**T** (100%)	**A** (100%)
122,049,917	Intron 1	**G**	**G** (100%)	**A** (3%)*	**A** (11%)	**G** (100%)
122,049,931	Intron 1	**C**	**T** (2%)*	**C** (100%)	**T** (13%)	**C** (100%)

122,049,952-122,049,955	Intron 1	**ACAC**	**delAC** (6%)	**ACAC** (95%)	**ACAC** (95%)	**delACAC** (24%)
122,049,957	Intron 1	**C**	**C** (98%)	**A** (5%)*	**A** (5%)*	**A** (13%)
122,050,067	Intron 1	**C**	**C** (100%)	**T** (5%)*	**T** (11%)	**C** (100%)
122,050,159	Intron 1	**C**	**T** (2%)*	**T** (15%)	**C** (100%)	**C** (100%)
122,050,228	Intron 1	**G**	**G** (100%)	**G** (100%)	**A** (11%)	**G** (100%)
122,050,264	Intron 1	**C**	**C** (100%)	**C** (100%)	**T** (13%)	**C** (100%)
122,050,267	Intron 1	**C**	**C** (100%)	**C** (100%)	**T** (13%)	**C** (100%)
122,050,297	Intron 1	**C**	**C** (100%)	**C** (100%)	**T** (13%)	**C** (100%)
122,050,299	Intron 1	**C**	**C** (100%)	**T** (11%)	**T** (4%)*	**C** (100%)
122,050,326	Intron 1	**G**	**G** (100%)	**A** (14%)	**A** (4%)*	**G** (100%)
122,050,342	Intron 1	**C**	**C** (100%)	**C** (96%)	**T** (21%)	**C** (100%)
122,050,343	Intron 1	**C**	**C** (100%)	**C** (100%)	**T** (16%)	**C** (100%)
122,050,404	Intron 1	**G**	**A** (2%)*	**A** (13%)	**A** (4%)*	**G** (100%)
122,050,530	Intron 1	**C**	**C** (100%)	**T** (13%)	**T** (3%)*	**C** (100%)
122,050,531	Intron 1	**C**	**T** (2%)*	**T** (13%)	**T** (8%)*	**C** (100%)
122,050,568	Intron 1	**C**	**C** (100%)	**C** (100%)	**T** (11%)	**C** (100%)
122,050,623	Intron 1	**T**	**C** (100%)	**C** (97%)	**C** (100%)	**C** (100%)
122,050,648	Intron 1	**C**	**C** (100%)	**T** (5%)*	**T** (13%)	**T** (5%)*
122,050,679	Intron 1	**C**	**C** (100%)	**C** (100%)	**T** (13%)	**C** (100%)
122,050,748	Intron 1	**G**	**G** (100%)	**A** (13%)	**A** (11%)	**G** (100%)
122,050,749	Intron 1	**G**	**G** (100%)	**A** (23%)	**A** (6%)*	**G** (100%)
122,050,750	Intron 1	**G**	**G** (100%)	**A** (18%)	**A** (6%)*	**G** (100%)
122,050,776	Intron 1	**C**	**C** (100%)	**T** (4%)*	**T** (11%)	**C** (100%)
122,050,777	Intron 1	**C**	**C** (100%)	**T** (4%)*	**T** (11%)	**C** (100%)
122,050,811	Intron 1	**C**	**C** (100%)	**C** (100%)	**T** (13%)	**C** (100%)
122,050,893	Intron 1	**G**	**A** (3%)*	**A** (11%)	**G** (100%)	**G** (100%)
122,050,925	Intron 1	**C**	**C** (100%)	**T** (4%)*	**T** (11%)	**C** (100%)
122,050,981	Intron 1	**G**	**G** (100%)	**A** (3%)*	**A** (11%)	**G** (100%)
122,050,995	Intron 1	**G**	**G** (97%)	**G** (100%)	**A** (11%)	**G** (100%)
122,050,996	Intron 1	**G**	**G** (100%)	**G** (100%)	**A** (19%)	**G** (100%)
122,051,080	Intron 1	**C**	**C** (100%)	**T** (14%)	**C** (100%)	**C** (100%)
122,051,082	Intron 1	**C**	**C** (100%)	**C** (100%)	**T** (13%)	**C** (100%)
122,051,084	Intron 1	**C**	**T** (3%)*	**C** (100%)	**T** (15%)	**C** (100%)
122,051,159	Intron 1	**C**	**C** (100%)	**T** (5%)*	**T** (5%)*	**T** (40%)

122,051,276	Intron 1	**C**	**C** (100%)	**T** (4%)*	**T** (19%)	**C** (100%)
122,051,278	Intron 1	**C**	**C** (100%)	**C** (100%)	**T** (13%)	**C** (96%)
122,051,288	Intron 1	**C**	**C** (100%)	**T** (12%)	**T** (8%)*	**C** (100%)
122,051,412	Intron 1	**C**	**C** (98%)	**T** (5%)*	**T** (13%)	**C** (100%)
122,051,449	Intron 1	**C**	**C** (100%)	**C** (100%)	**T** (15%)	**C** (100%)
122,051,450	Intron 1	**C**	**C** (100%)	**T** (11%)	**T** (6%)*	**C** (100%)
122,051,556	Intron 1	**C**	**C** (100%)	**T** (4%)*	**T** (15%)	**C** (100%)
122,051,595	Intron 1	**C**	**C** (100%)	**T** (11%)	**C** (100%)	**C** (100%)
122,051,603	Intron 1	**C**	**T** (4%)*	**T** (11%)	**C** (100%)	**T** (3%)*
122,051,623	Intron 1	**G**	**G** (100%)	**G** (100%)	**A** (11%)	**A** (2%)*
122,051,631	Intron 1	**C**	**C** (100%)	**T** (5%)*	**T** (11%)	**C** (100%)
122,051,667	Intron 1	**C**	**C** (100%)	**T** (13%)	**C** (100%)	**C** (100%)
122,051,681	Intron 1	**C**	**T** (4%)*	**T** (12%)	**T** (9%)*	**T** (4%)*
122,051,687	Intron 1	**C**	**C** (100%)	**T** (11%)	**T** (4%)*	**C** (100%)
122,051,797	Intron 1	**C**	**C** (100%)	**T** (13%)	**C** (100%)	**C** (100%)
122,051,805	Intron 1	**C**	**C** (100%)	**T** (13%)	**C** (100%)	**C** (100%)
122,051,821	Intron 1	**C**	**C** (100%)	**T** (16%)	**C** (100%)	**C** (100%)
122,051,918	Intron 1	**G**	**G** (100%)	**A** (14%)	**A** (3%)*	**G** (100%)
122,051,959	Intron 1	**C**	**T** (2%)*	**T** (11%)	**T** (5%)*	**C** (100%)
122,052,118	Intron 1	**G**	**G** (100%)	**G** (96%)	**A** (12%)	**G** (100%)
122,052,131	Intron 1	**G**	**A** (2%)*	**A** (15%)	**A** (4%)*	**G** (100%)
122,052,152	Intron 1	**G**	**G** (100%)	**G** (100%)	**A** (18%)	**G** (100%)
122,052,158	Intron 1	**G**	**G** (98%)	**G** (100%)	**A** (11%)	**G** (100%)
122,052,177	Intron 1	**G**	**G** (100%)	**A** (3%)*	**A** (14%)	**G** (100%)
122,052,228	Intron 1	**G**	**G** (95%)	**A** (3%)*	**A** (16%)	**G** (100%)
122,052,387	Intron 1	**G**	**A** (2%)*	**A** (12%)	**A** (4%)*	**A** (4%)*
122,052,426	Intron 1	**G**	**G** (100%)	**A** (13%)	**A** (3%)*	**G** (100%)
122,052,430	Intron 1	**G**	**G** (100%)	**A** (12%)	**G** (100%)	**A** (5%)*
122,052,441	Intron 1	**G**	**A** (58%)	**A** (46%)	**A** (54%)	**G** (100%)
122,052,442	Intron 1	**A**	**G** (60%)	**G** (50%)	**G** (52%)	**A** (100%)
122,052,475	Intron 1	**G**	**G** (100%)	**A** (17%)	**A** (11%)	**G** (100%)
122,052,515	Intron 1	**G**	**A** (2%)*	**A** (19%)	**A** (6%)*	**G** (100%)
122,052,529	Intron 1	**G**	**G** (100%)	**A** (14%)	**G** (100%)	**G** (100%)
122,052,541	Intron 1	**G**	**A** (26%)	**A** (27%)	**A** (23%)	**A** (12%)
122,052,543	Intron 1	**G**	**A** (3%)*	**A** (14%)	**A** (7%)*	**A** (8%)*

122,052,545	Intron 1	**G**	**A** (2%)*	**G** (100%)	**A** (11%)	**G** (100%)
122,052,567	Intron 1	**G**	**A** (6%)*	**A** (21%)	**A** (8%)*	**G** (100%)
122,052,577	Intron 1	**G**	**G** (100%)	**A** (13%)	**A** (9%)*	**G** (100%)
122,052,579	Intron 1	**A**	**A** (100%)	**G** (13%)	**G** (76%)	**G** (75%)
122,052,580	Intron 1	**A**	**delA** (17%)	**delA** (5%)*	**A** (94%)	**A** (96%)
122,052,581	Intron 1	**G**	**delG** (20%)	**A** (19%) **delG** (6%)*	**A** (33%)	**A** (87%)
122,052,582	Intron 1	**A**	**G** (31%)	**G** (6%)*	**G** (6%)*	**G** (8%)*
122,052,583	Intron 1	**G**	**A** (13%)	**A** (12%)	**A** (3%)*	**G** (100%)
122,052,591	Intron 1	**G**	**A** (5%)*	**G** (100%)	**A** (16%)	**G** (100%)
122,052,594	Intron 1	**A**	**G** (12%)	**A** (100%)	**A** (100%)	**A** (100%)
122,052,596	Intron 1	**G**	**A** (15%)	**G** (100%)	**A** (15%)	**A** (4%)*
122,052,601	Intron 1	**G**	**A** (8%)*	**G** (100%)	**A** (11%)	**G** (100%)
122,052,606	Intron 1	**G**	**G** (100%)	**C** (55%)	**C** (23%)	**G** (96%)
122,052,658	Intron 1	**G**	**G** (100%)	**A** (13%)	**G** (100%)	**A** (4%)*
122,052,659	Intron 1	**G**	**G** (100%)	**A** (22%)	**A** (5%)*	**G** (100%)
122,052,706	Intron 1	**C**	**C** (99%)	**T** (5%)*	**T** (14%)	**C** (100%)
122,052,741	Intron 1	**G**	**G** (100%)	**A** (4%)*	**A** (11%)	**G** (100%)
122,052,759	Intron 1	**C**	**G** (100%)	**G** (97%)	**G** (88%)	**G** (100%)
122,052,781	Intron 1	**G**	**G** (100%)	**A** (13%)	**A** (3%)*	**G** (100%)
122,052,801	Intron 1	**G**	**G** (97%)	**G** (100%)	**A** (11%)	**G** (100%)
122,052,802	Intron 1	**G**	**G** (100%)	**A** (12%)	**A** (4%)*	**G** (100%)
122,052,889	Intron 1	**G**	**G** (100%)	**A** (12%)	**G** (100%)	**G** (100%)
122,052,901	Intron 1	**G**	**G** (100%)	**A** (10%)*	**A** (11%)	**G** (100%)
122,052,920	Intron 1	**G**	**G** (100%)	**A** (11%)	**A** (6%)*	**G** (100%)
122,052,931	Intron 1	**C**	**T** (2%)*	**T** (7%)*	**T** (16%)	**C** (100%)
122,053,120	Intron 1	**C**	**C** (100%)	**T** (14%)	**T** (2%)*	**C** (97%)
122,053,157	Intron 1	**T**	**T** (100%)	**T** (100%)	**C** (36%)	**T** (100%)
122,053,163	Intron 1	**C**	**C** (100%)	**C** (97%)	**T** (15%)	**C** (100%)
122,053,175	Intron 1	**C**	**C** (100%)	**T** (11%)	**C** (100%)	**C** (100%)
122,053,198	Intron 1	**C**	**C** (100%)	**T** (11%)	**C** (100%)	**C** (100%)
122,053,226	Intron 1	**C**	**C** (100%)	**T** (18%)	**C** (100%)	**C** (100%)
122,053,227	Intron 1	**C**	**C** (100%)	**T** (11%)	**T** (3%)*	**C** (100%)
122,053,249	Intron 1	**G**	**A** (100%)	**A** (100%)	**A** (100%)	**A** (100%)
122,053,285	Intron 1	**C**	**C** (100%)	**T** (21%)	**C** (100%)	**C** (100%)

122,053,354	Intron 1	**C**	**C** (100%)	**T** (12%)	**T** (5%)*	**C** (100%)
122,053,404	Intron 1	**G**	**G** (100%)	**G** (96%)	**A** (3%)*	**A** (52%)
122,053,435	Intron 1	**C**	**C** (100%)	**T** (11%)	**C** (100%)	**C** (100%)
122,053,575	Intron 1	**G**	**A** (2%)*	**A** (11%)	**G** (100%)	**G** (100%)
122,053,627	Intron 1	**G**	**G** (99%)	**A** (11%)	**A** (7%)*	**G** (100%)
122,053,676	Intron 1	**G**	**G** (100%)	**A** (9%)*	**A** (11%)	**G** (100%)
122,053,723	Intron 1	**C**	**C** (100%)	**C** (100%)	**T** (11%)	**C** (100%)
122,053,744	Intron 1	**C**	**C** (100%)	**C** (100%)	**T** (17%)	**C** (100%)
122,053,756	Intron 1	**G**	**A** (3%)*	**G** (100%)	**A** (14%)	**G** (100%)
122,053,766	Intron 1	**G**	**G** (100%)	**A** (11%)	**G** (100%)	**G** (100%)
122,053,815	Intron 1	**G**	**G** (100%)	**A** (13%)	**A** (7%)*	**G** (100%)
122,053,853	Intron 1	**C**	**T** (3%)*	**T** (11%)	**C** (100%)	**C** (100%)
122,053,892	Intron 1	**G**	**G** (100%)	**A** (11%)	**A** (21%)	**G** (100%)
122,053,948	Intron 1	**G**	**G** (100%)	**G** (100%)	**A** (12%)	**G** (100%)
122,054,004	Intron 1	**G**	**G** (100%)	**A** (18%)	**A** (6%)*	**G** (100%)
122,054,006	Intron 1	**C**	**T** (2%)*	**T** (21%)	**C** (100%)	**C** (100%)
122,054,008	Intron 1	**C**	**C** (100%)	**T** (11%)	**C** (100%)	**C** (100%)
122,054,131	Intron 1	**C**	**T** (2%)*	**C** (100%)	**T** (13%)	**C** (100%)
122,054,250	Intron 1	**C**	**C** (100%)	**T** (12%)	**T** (11%)	**C** (100%)
122,054,252	Intron 1	**C**	**T** (100%)	**T** (100%)	**T** (100%)	**C** (100%)
122,054,333	Intron 1	**G**	**G** (100%)	**A** (12%)	**A** (8%)*	**G** (100%)
122,054,350	Intron 1	**G**	**A** (100%)	**A** (100%)	**A** (100%)	**A** (100%)
122,054,461	Intron 1	**T**	**T** (100%)	**T** (100%)	**T** (100%)	**InsTTAT** (57%)
122,054,836	Intron 1	**A**	**A** (100%)	**A** (100%)	**A** (97%)	**InsGT** (14%)
122,054,839	Intron 1	**C**	**C** (100%)	**C** (100%)	**T** (13%)	**C** (100%)
122,054,929	Intron 1	**A**	**A** (100%)	**G** (64%)	**G** (39%)	**A** (100%)
122,054,943	Intron 1	**G**	**G** (100%)	**A** (3%)*	**A** (12%)	**G** (100%)
122,055,067	Intron 1	**G**	**G** (100%)	**A** (6%)*	**A** (11%)	**G** (100%)
122,055,124	Intron 1	**C**	**C** (100%)	**T** (13%)	**C** (100%)	**C** (100%)
122,055,346	Intron 1	**G**	**G** (100%)	**A** (3%)*	**A** (13%)	**G** (100%)
122,055,360	Intron 1	**C**	**C** (100%)	**T** (11%)	**T** (3%)*	**C** (100%)
122,055,429	Intron 1	**C**	**C** (100%)	**T** (4%)*	**T** (11%)	**C** (100%)
122,055,432	Intron 1	**C**	**C** (100%)	**T** (13%)	**C** (100%)	**C** (100%)
122,055,497	Intron 1	**G**	**A** (100%)	**A** (100%)	**A** (100%)	**G** (100%)

122,055,498	Intron 1	**C**	**C** (98%)	**T** (4%)*	**T** (11%)	**C** (100%)
122,055,541	Intron 1	**G**	**G** (100%)	**A** (12%)	**A** (6%)*	**G** (100%)
122,055,670	Intron 1	**C**	**T** (2%)*	**C** (100%)	**T** (13%)	**C** (100%)
122,055,689	Intron 1	**C**	**C** (100%)	**T** (4%)*	**T** (14%)	**C** (100%)
122,055,728	Intron 1	**C**	**C** (100%)	**T** (11%)	**T** (20%)	**C** (100%)
122,055,736	Intron 1	**C**	**C** (100%)	**C** (100%)	**T** (11%)	**C** (100%)
122,055,820	Intron 1	**T**	**T** (100%)	**T** (100%)	**C** (56%)	**T** (100%)
122,055,919	Intron 1	**C**	**T** (3%)*	**T** (13%)	**T** (3%)*	**C** (100%)
122,055,965	Intron 1	**C**	**C** (100%)	**T** (6%)*	**T** (19%)	**C** (100%)
122,056,120	Intron 1	**C**	**C** (100%)	**T** (5%)*	**T** (11%)	**C** (100%)
122,056,176	Intron 1	**G**	**G** (100%)	**G** (100%)	**A** (12%)	**G** (100%)
122,056,223	Intron 1	**C**	**C** (99%)	**T** (11%)	**C** (100%)	**C** (100%)
122,056,309	Intron 1	**G**	**G** (100%)	**A** (4%)*	**A** (11%)	**G** (100%)
122,056,330	Intron 1	**G**	**G** (100%)	**A** (4%)*	**A** (11%)	**G** (100%)
122,056,333	Intron 1	**C**	**C** (100%)	**C** (100%)	**T** (11%)	**C** (100%)
122,056,496	Intron 2	**G**	**G** (100%)	**G** (100%)	**A** (28%)	**G** (100%)
122,056,508	Intron 2	**C**	**C** (100%)	**T** (8%)*	**T** (17%)	**C** (97%)
122,056,510	Intron 2	**C**	**C** (100%)	**T** (4%)*	**T** (17%)	**C** (100%)
122,056,591	Intron 2	**G**	**G** (100%)	**G** (100%)	**A** (16%)	**G** (100%)
122,056,748	Intron 2	**C**	**C** (98%)	**T** (11%)	**C** (100%)	**C** (100%)
122,056,824	Intron 2	**G**	**A** (3%)*	**A** (12%)	**A** (6%)*	**G** (100%)
122,056,825	Intron 2	**G**	**G** (100%)	**A** (13%)	**A** (6%)*	**G** (100%)
122,056,836	Intron 2	**G**	**G** (100%)	**A** (4%)*	**A** (11%)	**G** (100%)
122,056,839	Intron 2	**C**	**C** (100%)	**T** (11%)	**T** (6%)*	**C** (100%)
122,056,948	Intron 2	**C**	**C** (100%)	**T** (13%)	**T** (3%)*	**C** (97%)
122,056,982	Intron 2	**C**	**C** (100%)	**T** (12%)	**T** (7%)*	**T** (3%)*
122,057,024	Intron 2	**G**	**G** (100%)	**A** (12%)	**A** (3%)*	**G** (100%)
122,057,084	Intron 2	**A**	**InsA** (93%)	**InsA** (80%)	**InsA** (84%)	**A** (100%)
122,057,090	Intron 2	**T**	**T** (100%)	**A** (11%)	**T** (97%)	**T** (100%)
122,057,110	Intron 2	**G**	**G** (100%)	**G** (100%)	**A** (11%)	**G** (100%)
122,057,257	Intron 2	**C**	**C** (100%)	**C** (96%)	**T** (15%)	**C** (100%)
122,057,343	Intron 2	**C**	**T** (4%)*	**T** (14%)	**C** (100%)	**C** (100%)
122,057,347	Intron 2	**A**	**delA** (51%)	**delA** (83%)	**delA** (50%)	**delA** (47%)
122,057,348	Intron 2	**A**	**delA** (19%)	**delA** (38%)	**delA** (30%)	**delA** (30%)
122,057,349	Intron 2	**A**	**delA** (7%)*	**delA** (15%)	**delA** (6%)*	**delA** (13%)

122,057,381	Intron 2	**G**	**G** (100%)	**G** (100%)	**A** (14%)	**G** (100%)
122,057,408	Intron 2	**C**	**C** (100%)	**C** (95%)	**T** (14%)	**C** (100%)
122,057,483	Intron 2	**G**	**G** (95%)	**A** (14%)	**A** (5%)*	**G** (100%)
122,057,624	Intron 2	**C**	**C** (99%)	**T** (4%)*	**T** (14%)	**C** (100%)
122,057,682	Intron 2	**C**	**C** (98%)	**T** (12%)	**T** (9%)*	**C** (100%)
122,057,690	Intron 2	**C**	**C** (100%)	**T** (12%)	**C** (100%)	**C** (100%)
122,057,705	Intron 2	**G**	**A** (2%)*	**A** (12%)	**A** (8%)*	**G** (100%)
122,057,748	Intron 2	**T**	**T** (100%)	**T** (100%)	**A** (65%)	**T** (100%)
122,057,767	Intron 2	**G**	**G** (100%)	**G** (100%)	**A** (11%)	**G** (95%)
122,057,769	Intron 2	**C**	**C** (100%)	**C** (100%)	**T** (18%)	**C** (100%)
122,057,787	Intron 2	**C**	**C** (100%)	**C** (96%)	**T** (12%)	**delC** (18%)
122,057,788	Intron 2	**T**	**T** (94%)	**T** (96%)	**T** (98%)	**delT** (18%)
122,057,789	Intron 2	**C**	**C** (98%)	**T** (4%)*	**T** (11%)	**C** (100%)
122,057,793	Intron 2	**C**	**C** (100%)	**C** (100%)	**T** (14%)	**C** (100%)
122,057,795	Intron 2	**C**	**C** (100%)	**C** (100%)	**T** (14%)	**C** (100%)
122,057,810	Intron 2	**C**	**C** (100%)	**T** (13%)	**C** (100%)	**C** (100%)
122,057,918	Intron 2	**T**	**C** (97%)	**C** (97%)	**C** (100%)	**T** (100%)
122,058,016	Intron 2	**G**	**G** (100%)	**A** (3%)*	**A** (11%)	**G** (100%)
122,058,076	Intron 2	**C**	**C** (100%)	**T** (12%)	**C** (100%)	**C** (100%)
122,058,122	Intron 2	**C**	**T** (3%)*	**T** (12%)	**T** (3%)*	**C** (100%)
122,058,194	Intron 2	**G**	**G** (100%)	**A** (12%)	**G** (100%)	**G** (100%)
122,058,195	Intron 2	**G**	**G** (97%)	**A** (12%)	**A** (3%)*	**G** (100%)
122,058,264	Intron 2	**G**	**G** (100%)	**G** (100%)	**A** (11%)	**G** (100%)
122,058,285	Intron 2	**G**	**G** (100%)	**A** (11%)	**A** (4%)*	**G** (100%)
122,058,318	Intron 2	**G**	**G** (100%)	**G** (100%)	**A** (13%)	**G** (100%)
122,058,389	Intron 2	**C**	**C** (100%)	**C** (100%)	**T** (12%)	**C** (100%)
122,058,481	Intron 2	**C**	**T** (2%)*	**T** (4%)*	**T** (11%)	**C** (100%)
122,058,579	Intron 2	**G**	**G** (100%)	**G** (100%)	**A** (11%)	**G** (100%)
122,058,624	Intron 2	**C**	**C** (100%)	**T** (12%)	**C** (100%)	**C** (100%)
122,058,637	Intron 2	**G**	**G** (100%)	**A** (7%)*	**A** (14%)	**G** (100%)
122,058,638	Intron 2	**G**	**G** (100%)	**G** (100%)	**A** (20%)	**G** (100%)
122,058,646	Intron 2	**G**	**G** (100%)	**G** (100%)	**A** (12%)	**G** (100%)
122,058,658	Intron 2	**C**	**T** (3%)*	**C** (100%)	**T** (12%)	**C** (100%)
122,058,660	Intron 2	**C**	**C** (100%)	**T** (14%)	**T** (5%)*	**C** (100%)
122,058,724	Intron 2	**G**	**G** (100%)	**A** (11%)	**A** (4%)*	**G** (100%)

122,059,006	Intron 2	**G**	**G** (100%)	**G** (100%)	**A** (11%)	**G** (100%)	
122,059,070	Intron 2	**C**	**C** (98%)	**T** (11%)	**T** (2%)*	**C** (100%)	
122,059,175	Intron 2	**G**	**A** (2%)*	**A** (42%)	**A** (3%)*	**G** (100%)	
122,059,239	Intron 2	**C**	**C** (98%)	**T** (3%)*	**T** (11%)	**C** (100%)	
122,059,445	Intron 2	**C**	**C** (100%)	**C** (100%)	**T** (13%)	**C** (100%)	
122,059,447	Intron 2	**G**	**G** (100%)	**G** (100%)	**A** (13%)	**G** (100%)	
122,059,456	Intron 2	**C**	**C** (100%)	**T** (4%)*	**T** (13%)	**C** (100%)	
122,059,474	Intron 2	**G**	**G** (97%)	**A** (24%)	**G** (100%)	**G** (100%)	
122,059,475	Intron 2	**G**	**A** (3%)*	**A** (11%)	**G** (100%)	**G** (100%)	
122,059,491	Intron 2	**C**	**C** (100%)	**T** (18%)	**C** (100%)	**C** (100%)	
122,059,495	Intron 2	**G**	**A** (3%)*	**G** (95%)	**A** (14%)	**G** (100%)	
122,059,664	Intron 2	**C**	**C** (100%)	**C** (100%)	**T** (13%)	**C** (100%)	
122,059,761	Intron 2	**C**	**T** (2%)*	**T** (11%)	**T** (12%)	**C** (100%)	
122,059,792	Intron 2	**T**	**delT** (63%)	**delT** (44%)	**delT** (54%)	**delT** (61%)	
122,059,807	Intron 2	**A**	**A** (100%)	**T** (13%)	**T** (3%)*	**A** (100%)	
122,059,809	Intron 2	**G**	**G** (100%)	**A** (18%)	**G** (100%)	**A** (6%)*	
122,059,815	Intron 2	**C**	**C** (100%)	**A** (6%)*	**A** (13%)	**C** (97%)	
122,059,911	Intron 2	**C**	**C** (99%)	**T** (3%)*	**T** (14%)	**C** (100%)	
122,060,031	Intron 2	**C**	**C** (100%)	**T** (11%)	**C** (100%)	**C** (100%)	
122,060,032	Intron 2	**C**	**T** (3%)*	**T** (11%)	**C** (100%)	**C** (100%)	
122,060,063	Intron 2	**C**	**C** (100%)	**T** (15%)	**C** (100%)	**C** (100%)	
122,060,085	Intron 2	**G**	**G** (100%)	**G** (100%)	**A** (13%)	**G** (100%)	
122,060,173	Intron 2	**G**	**G** (100%)	**A** (3%)*	**A** (11%)	**G** (100%)	
122,060,372	Exon 3	**TAC**	TA**C** (100%)	TA**C** (100%)	TA**T** (12%)	TA**C** (100%)	UAC→Y_{85} UAU→Y_{85}
122,060,639	3′ UTR	**T**	**T** (100%)	**T** (100%)	**T** (100%)	**C** (48%)	
122,060,653	3′ UTR	**G**	**A** (96%)	**A** (100%)	**A** (100%)	**G** (100%)	
122,060,654	3′ UTR	**C**	**C** (100%)	**T** (4%)*	**T** (14%)	**C** (100%)	
122,060,678	3′ UTR	**G**	**G** (100%)	**A** (13%)	**G** (100%)	**G** (100%)	
122,060,686	3′ UTR	**C**	**C** (100%)	**C** (100%)	**T** (17%)	**C** (100%)	
122,060,690	3′ UTR	**C**	**C** (100%)	**T** (12%)	**T** (6%)*	**C** (100%)	
122,060,692	3′ UTR	**C**	**C** (100%)	**T** (6%)*	**T** (14%)	**C** (100%)	
122,060,697	3′ UTR	**C**	**C** (100%)	**C** (100%)	**T** (13%)	**C** (100%)	
122,060,706	3′ UTR	**G**	**G** (100%)	**A** (13%)	**A** (4%)*	**G** (100%)	
122,060,741	3′ UTR	**G**	**G** (100%)	**G** (96%)	**A** (13%)	**G** (96%)	

122,060,823	Downstream regions	**G**	**G** (100%)	**A** (11%)	**A** (6%)*	**G** (100%)
122,060,825	Downstream regions	**G**	**G** (100%)	**A** (11%)	**A** (6%)*	**G** (100%)
122,060,827	Downstream regions	**G**	**G** (100%)	**G** (100%)	**A** (13%)	**G** (100%)
122,060,831	Downstream regions	**G**	**G** (100%)	**A** (13%)	**G** (100%)	**G** (100%)
122,060,839	Downstream regions	**G**	**A** (32%)	**A** (38%)	**A** (43%)	**G** (100%)
122,060,848	Downstream regions	**T**	**C** (22%)	**C** (13%)**	**C** (13%)	**T** (100%)
122,060,849	Downstream regions	**A**	**T** (28%)	**T** (13%)**	**T** (22%)	**A** (100%)
122,060,850	Downstream regions	**C**	**T** (28%)	**T** (25%)**	**T** (10%)*	**T** (27%)
122,060,870	Downstream regions	**T**	**T** (91%)	**C** (20%)	**T** (100%)	**T** (100%)
122,060,874	Downstream regions	**G**	**A** (5%)*	**G** (100%)**	**G** (100%)	**A** (18%)
122,060,895	Downstream regions	**C**	**T** (2%)*	**T** (11%)	**T** (3%)*	**C** (100%)
122,060,974	Downstream regions	**C**	**C** (100%)	**C** (100%)	**T** (7%)*	**T** (18%)
122,060,978	Downstream regions	**C**	**C** (100%)	**T** (3%)*	**T** (4%)*	**T** (13%)
122,061,011	Downstream regions	**G**	**A** (35%)	**A** (4%)*	**G** (100%)	**G** (100%)
122,061,152	Downstream regions	**T**	**C** (98%)	**C** (90%)	**C** (88%)	**C** (100%)
122,061,182	Downstream regions	**C**	**T** (1%)*	**T** (13%)	**T** (3%)*	**C** (100%)
122,061,198	Downstream regions	**A**	**delA** (6%)*	**delA** (16%)	**InsA** (26%) **delA** (6%)*	**InsA** (7%)* **delA** (2%)*

n.a.: not available; the variant frequency is referred to the percentage of the highlighted base in the sequenced ancient hominine genome, with* frequency≤10% and ** counts<10. In light orange are underlined the variants fixed at 100% in modern human compared to ancient hominines.