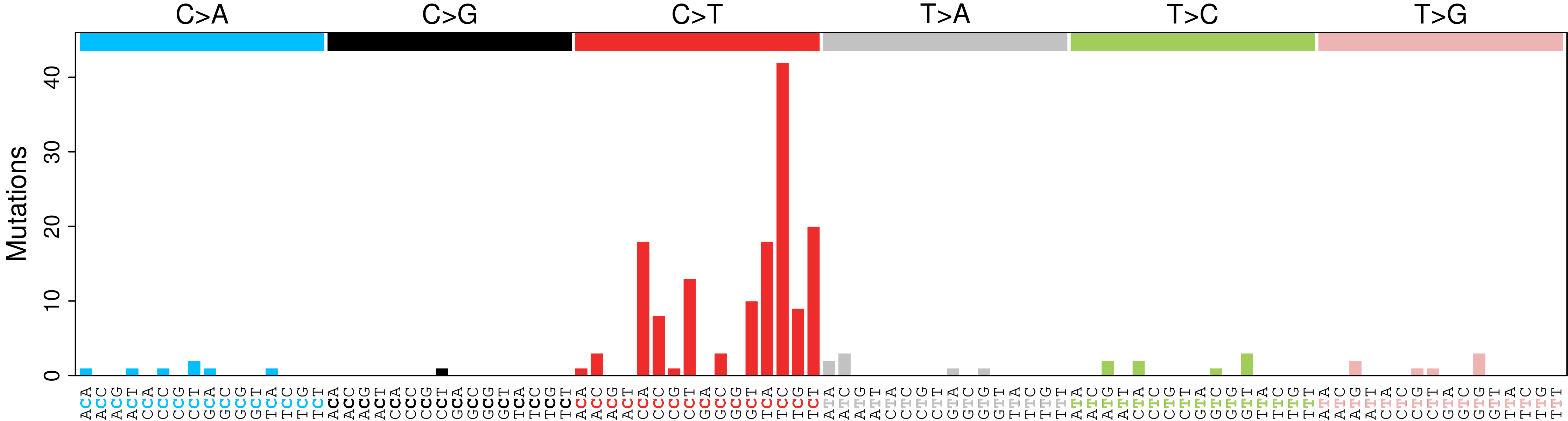
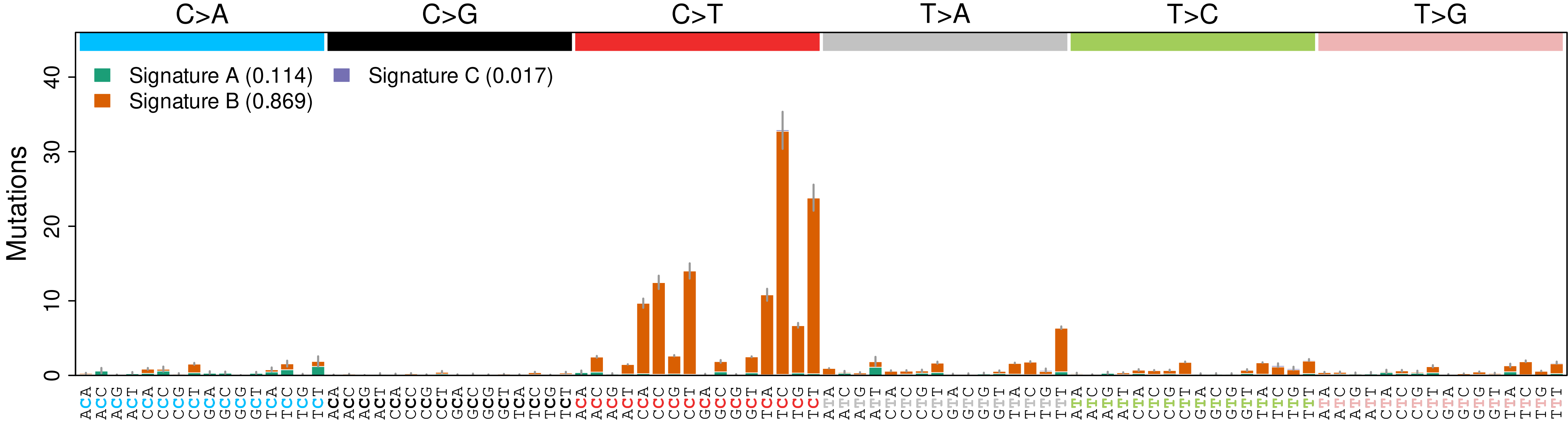


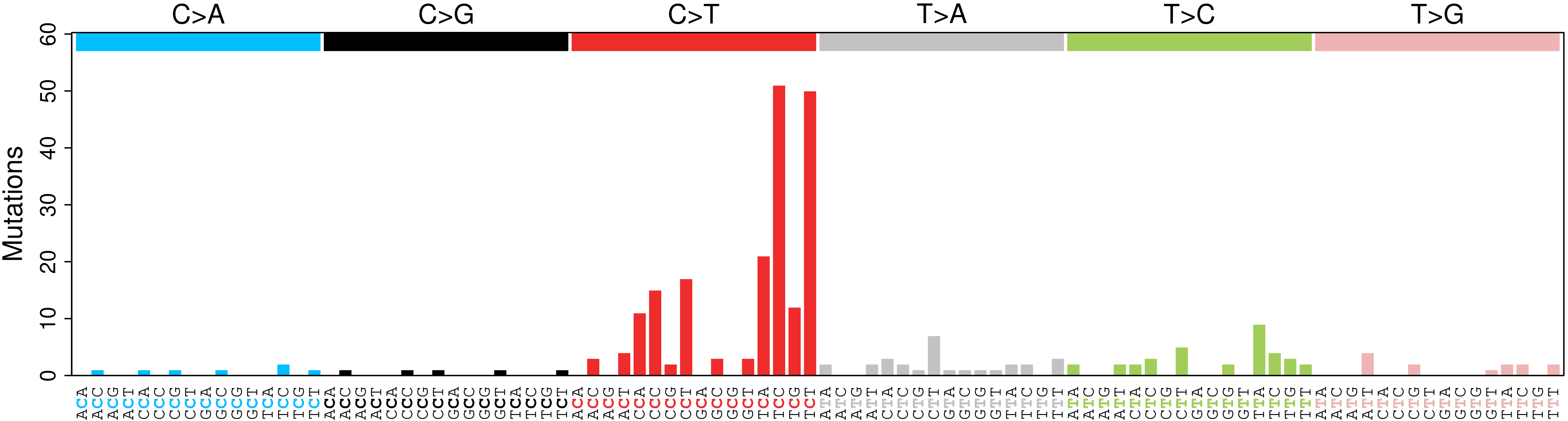
CATD269a (176 mutations)



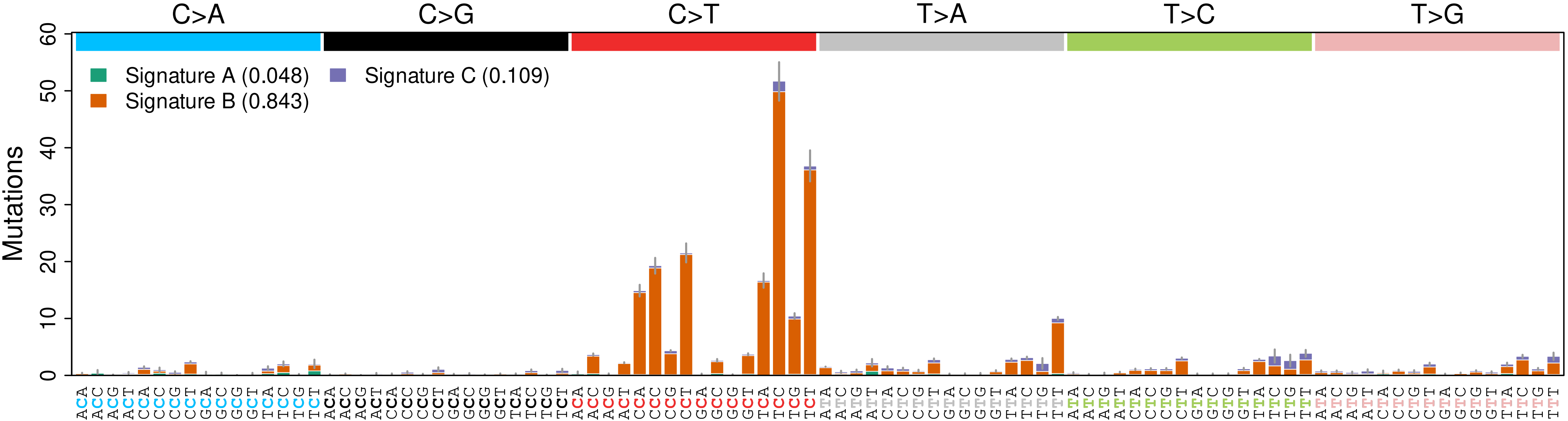
Reconstructed spectrum (cosine similarity = 0.938)



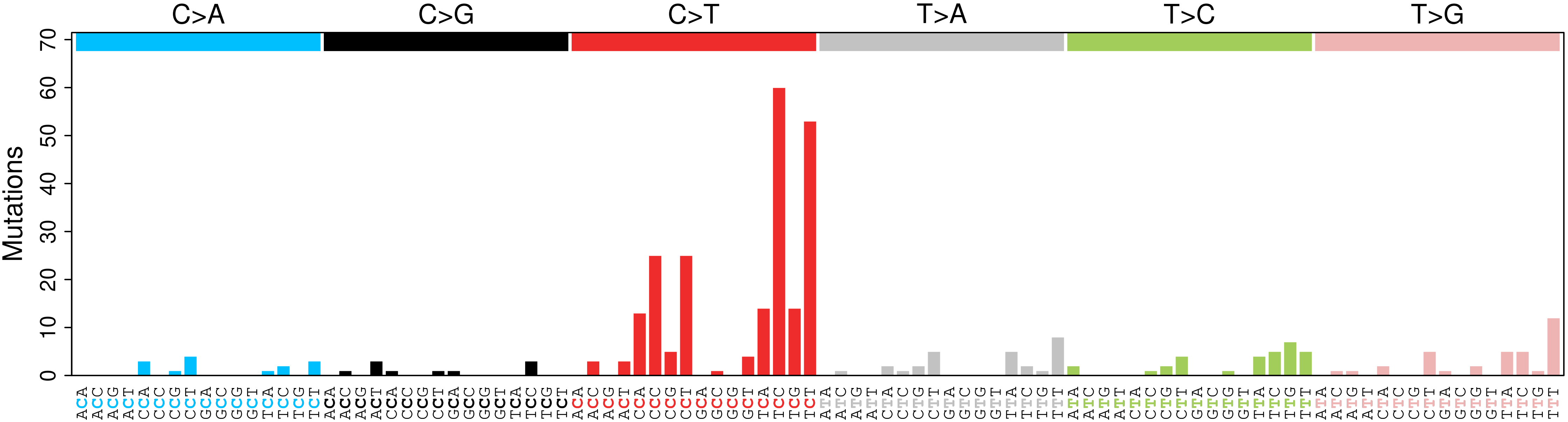
CATD256a (279 mutations)



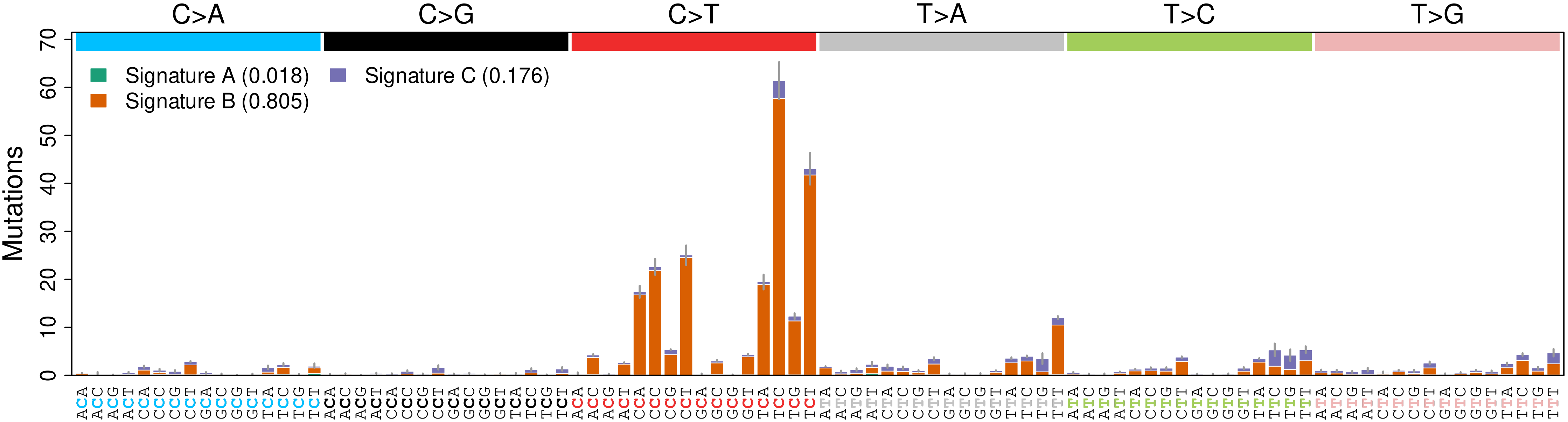
Reconstructed spectrum (cosine similarity = 0.967)



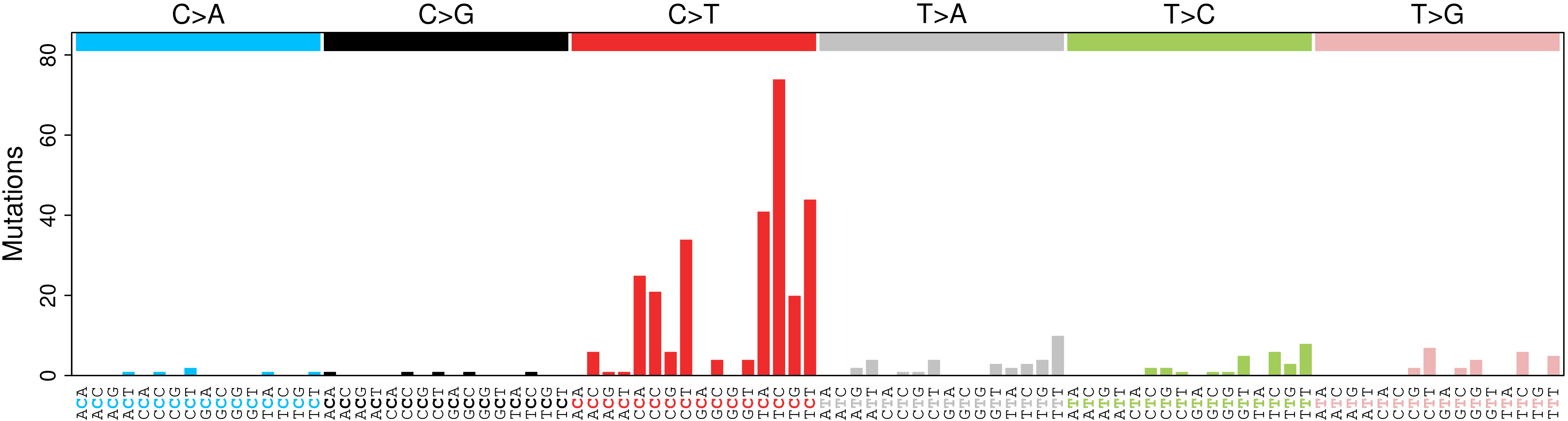
CATD251a (337 mutations)



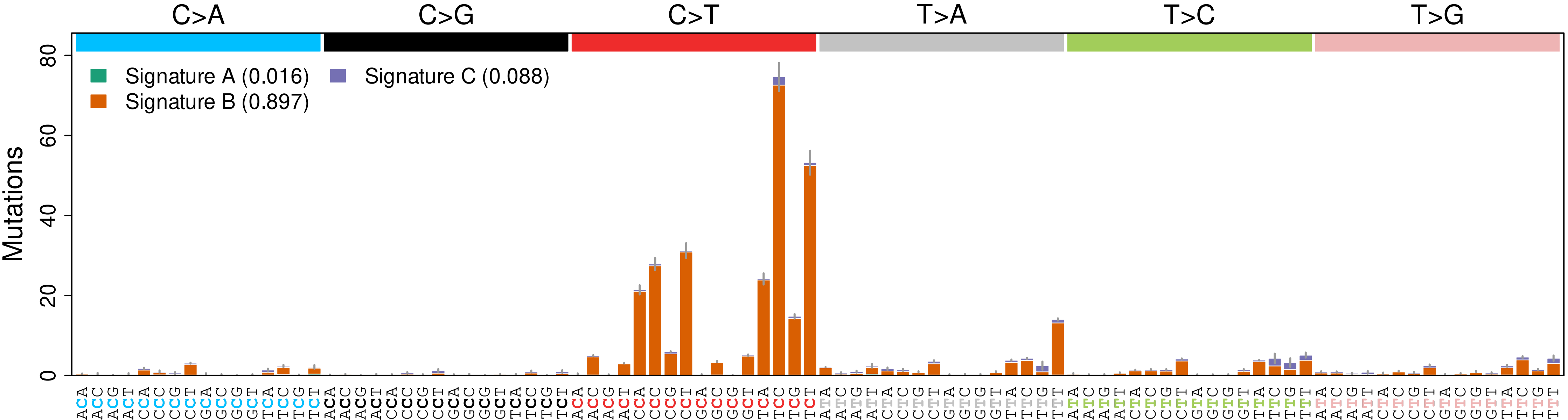
Reconstructed spectrum (cosine similarity = 0.982)



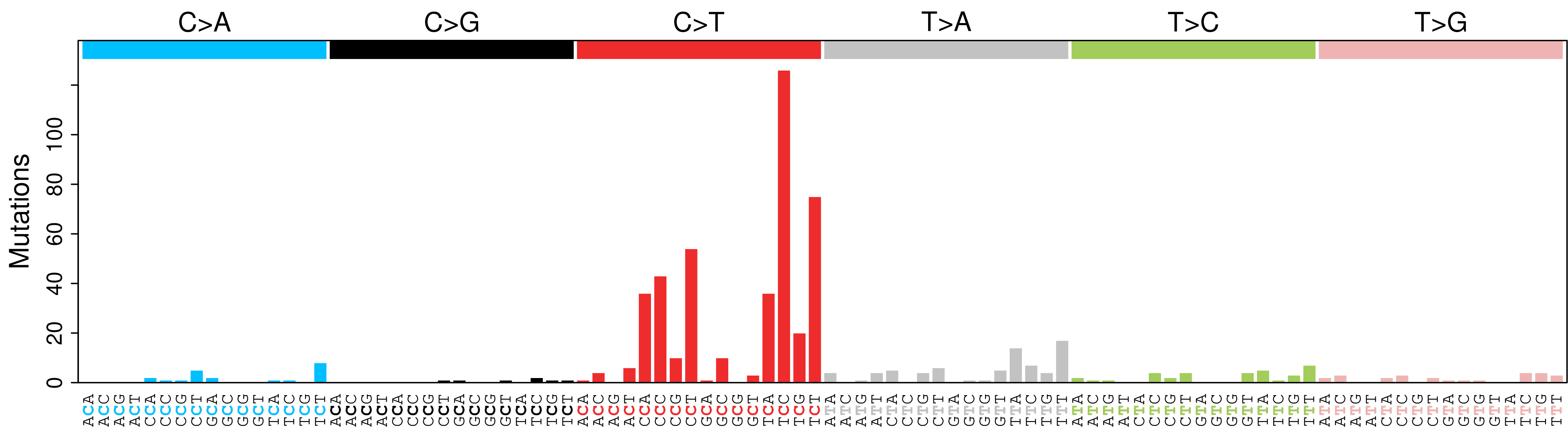
CATD0132a (381 mutations)



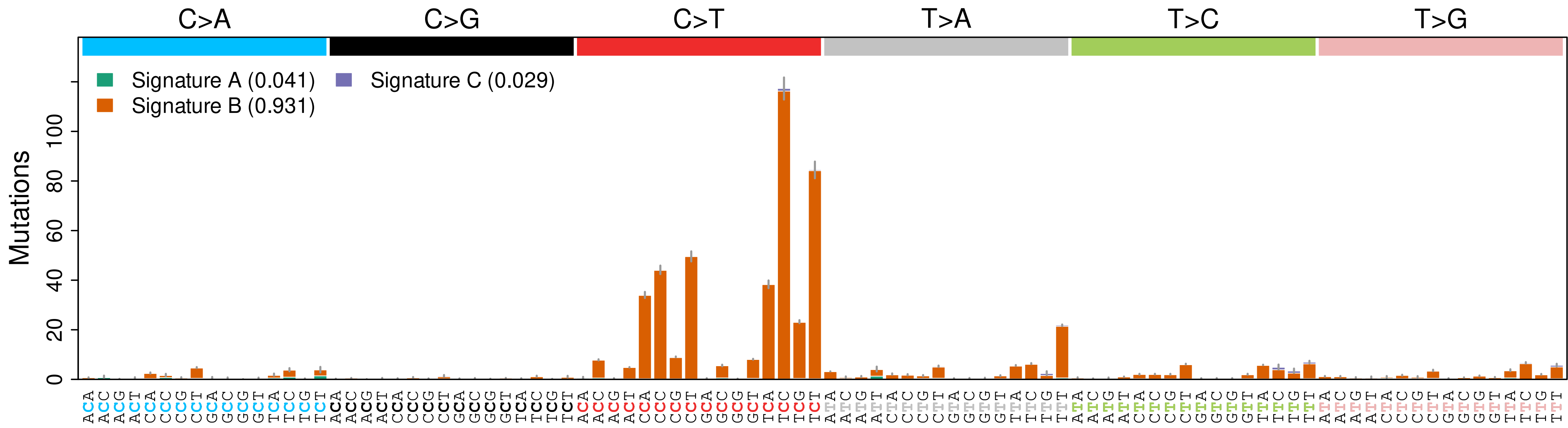
Reconstructed spectrum (cosine similarity = 0.974)



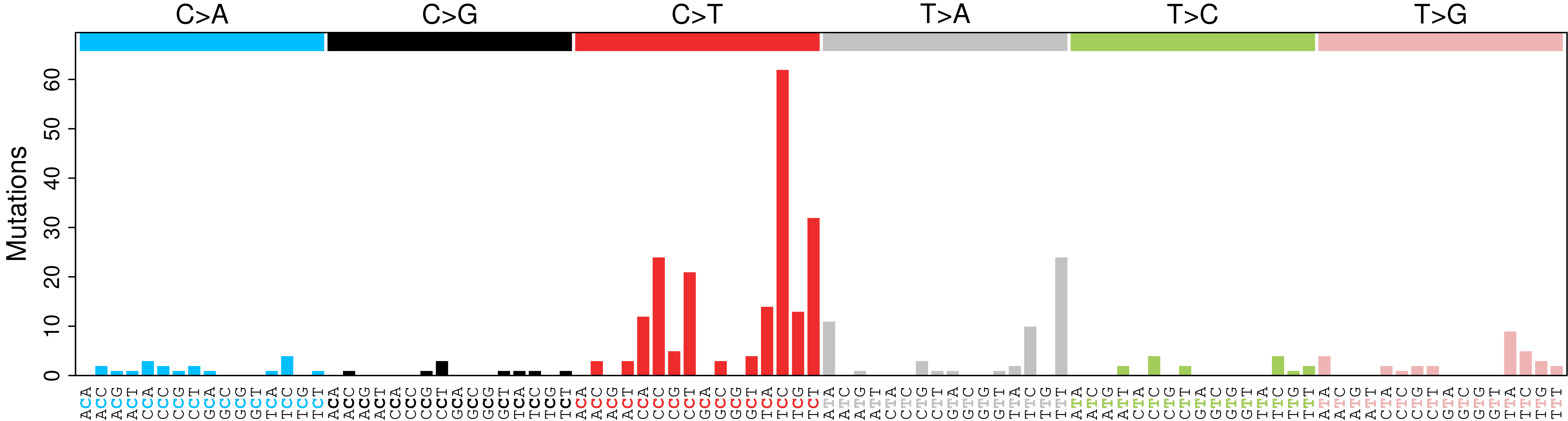
CATD0119a (586 mutations)



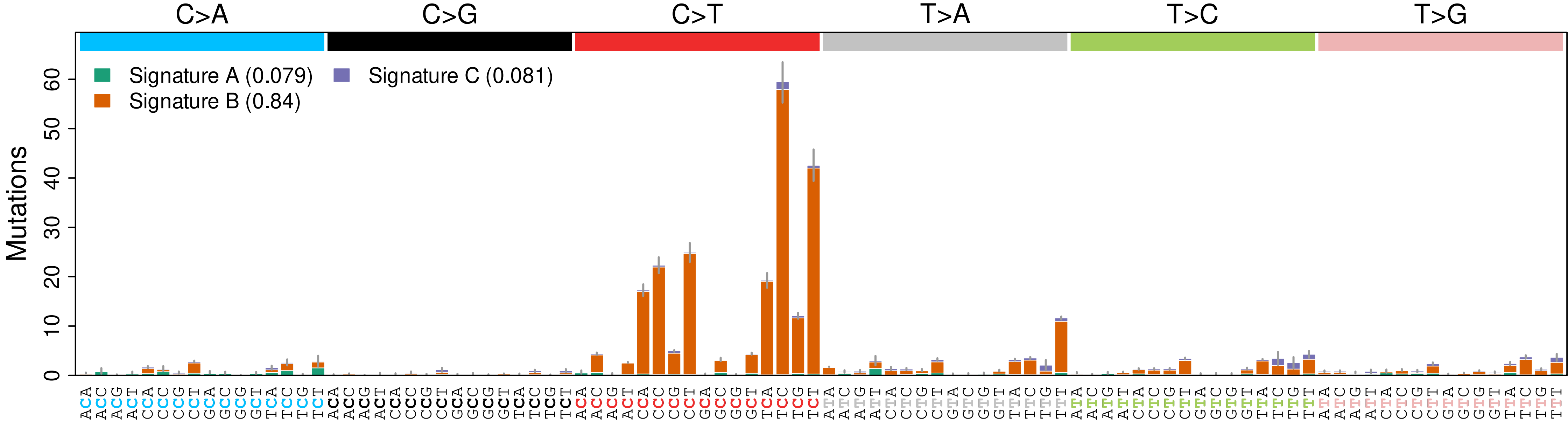
Reconstructed spectrum (cosine similarity = 0.992)



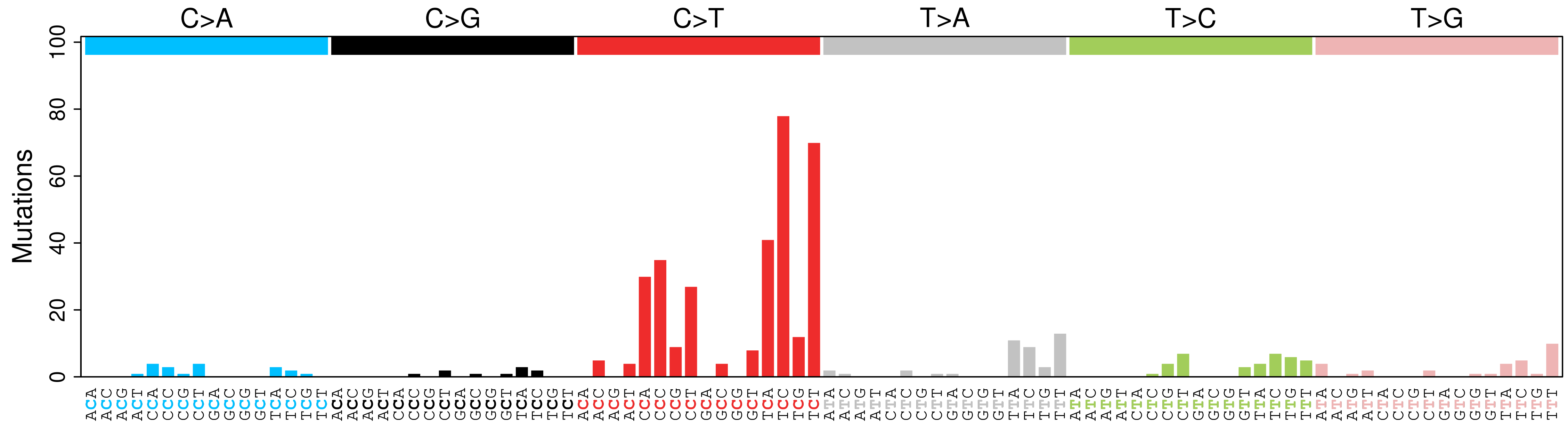
CATD262a (323 mutations)



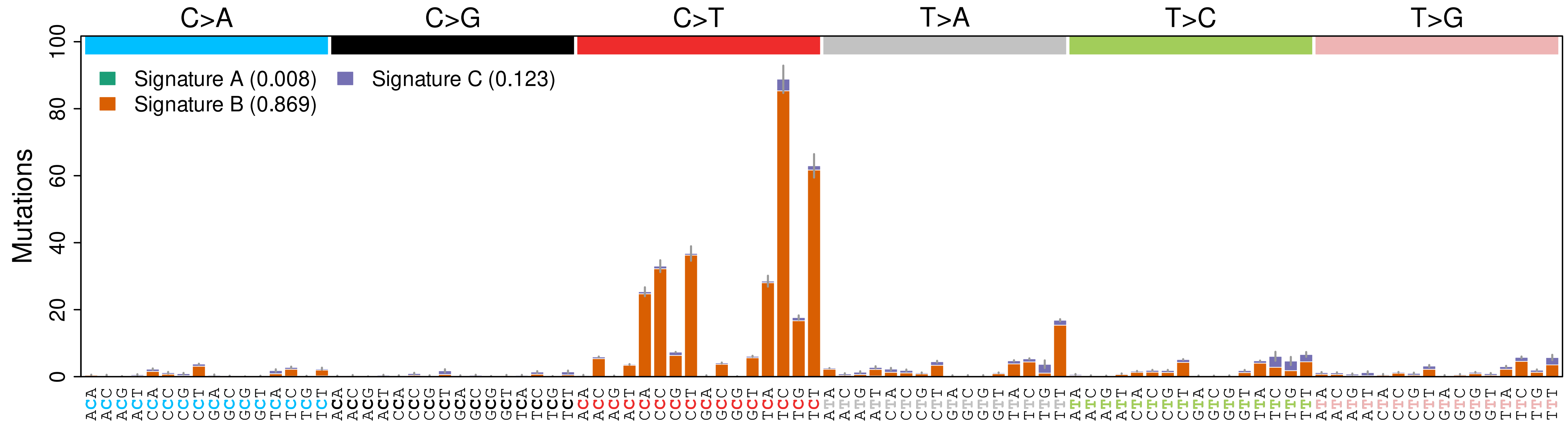
Reconstructed spectrum (cosine similarity = 0.959)



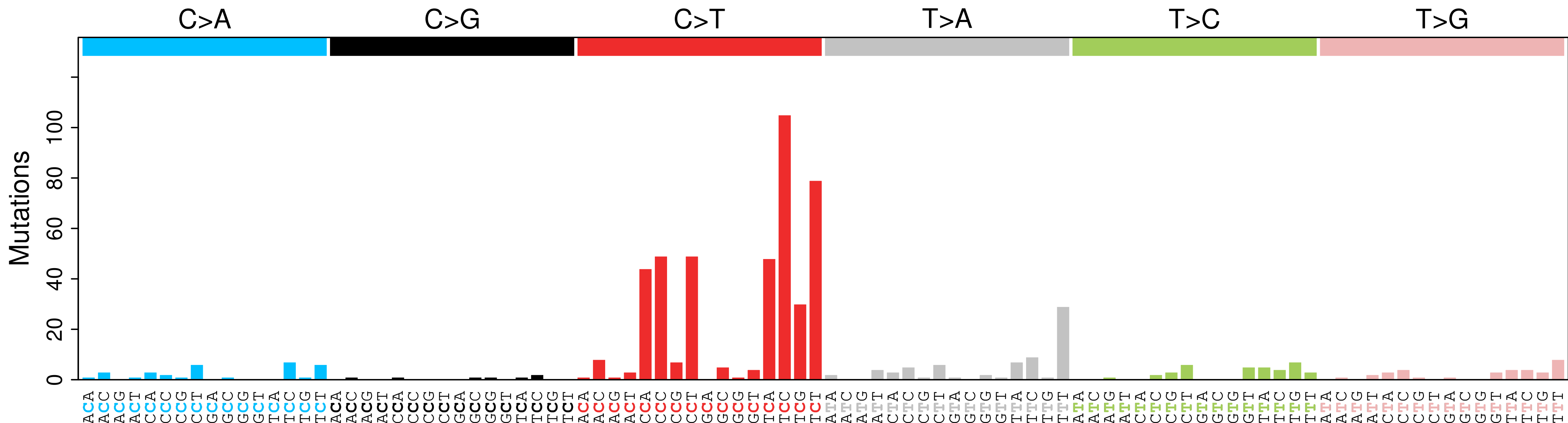
CATD248a (463 mutations)



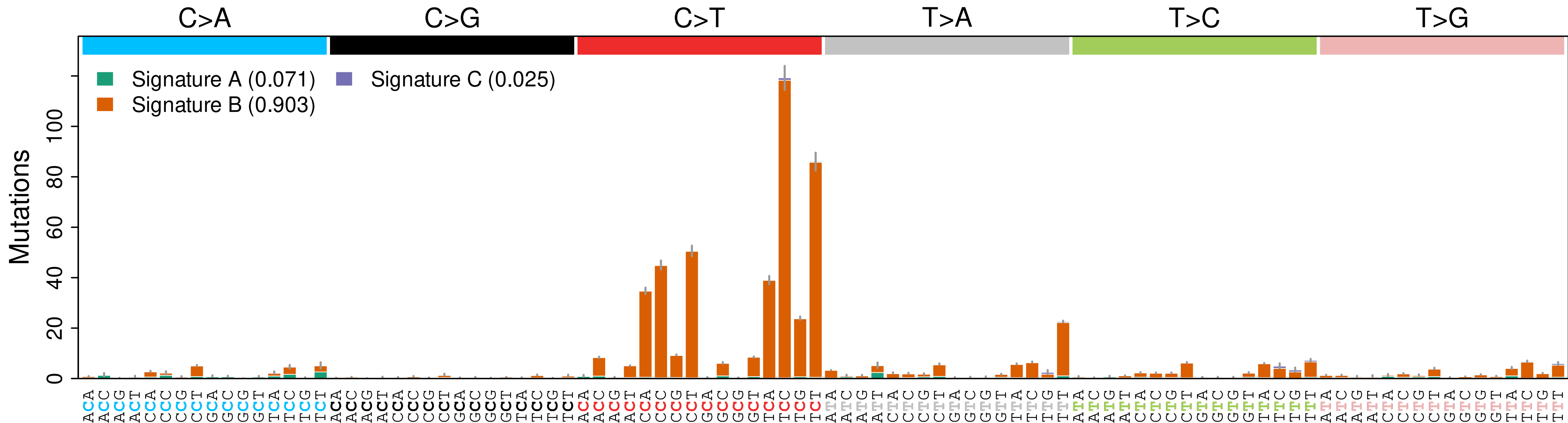
Reconstructed spectrum (cosine similarity = 0.98)



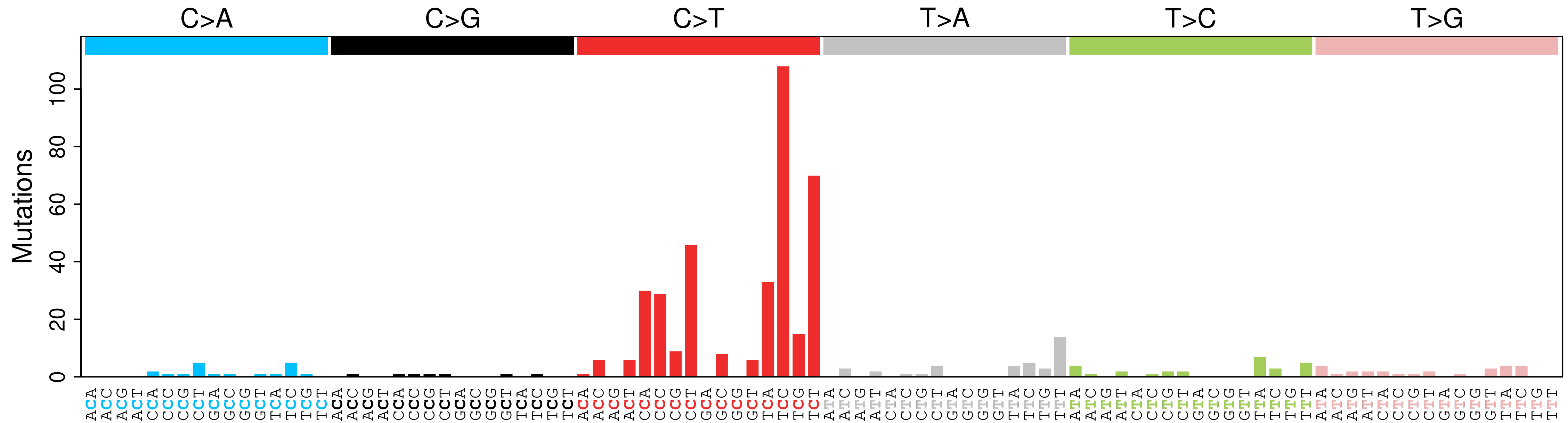
CATD0122a (614 mutations)



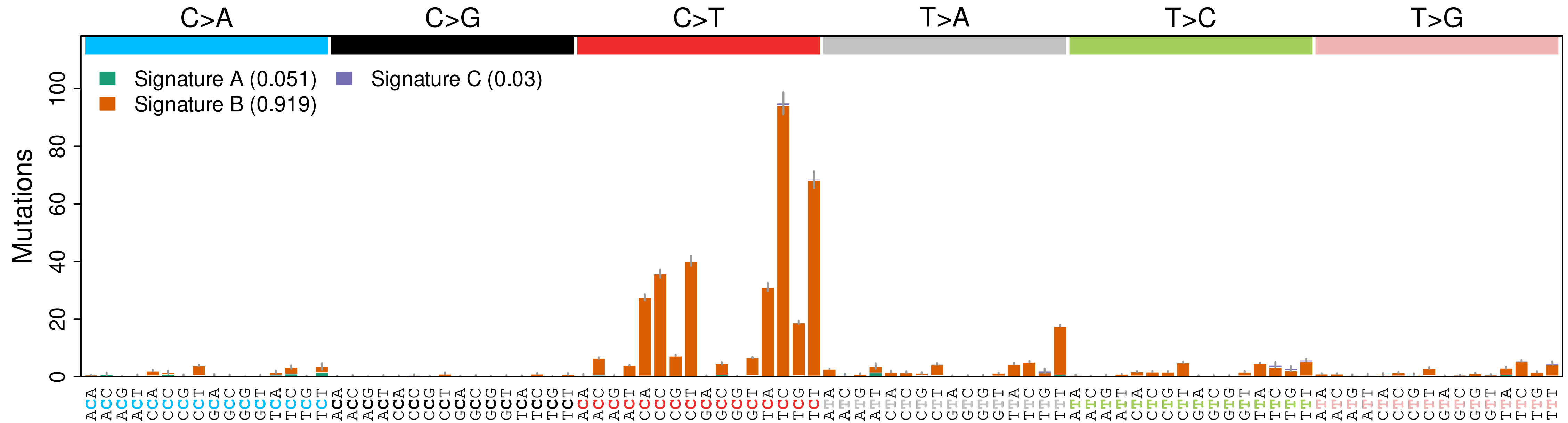
Reconstructed spectrum (cosine similarity = 0.989)



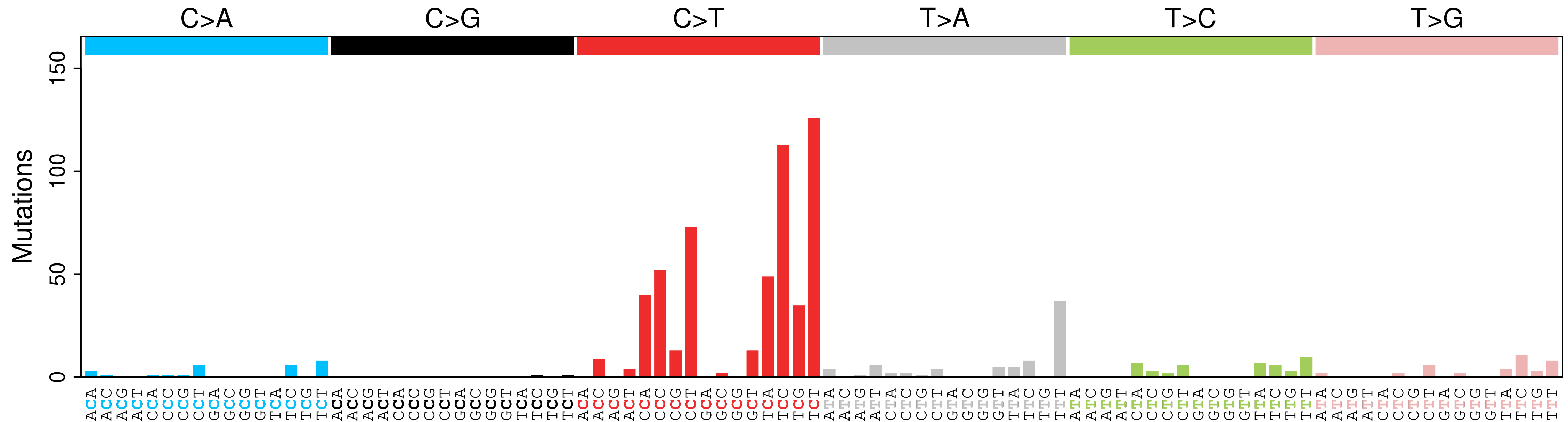
CATD252a (484 mutations)



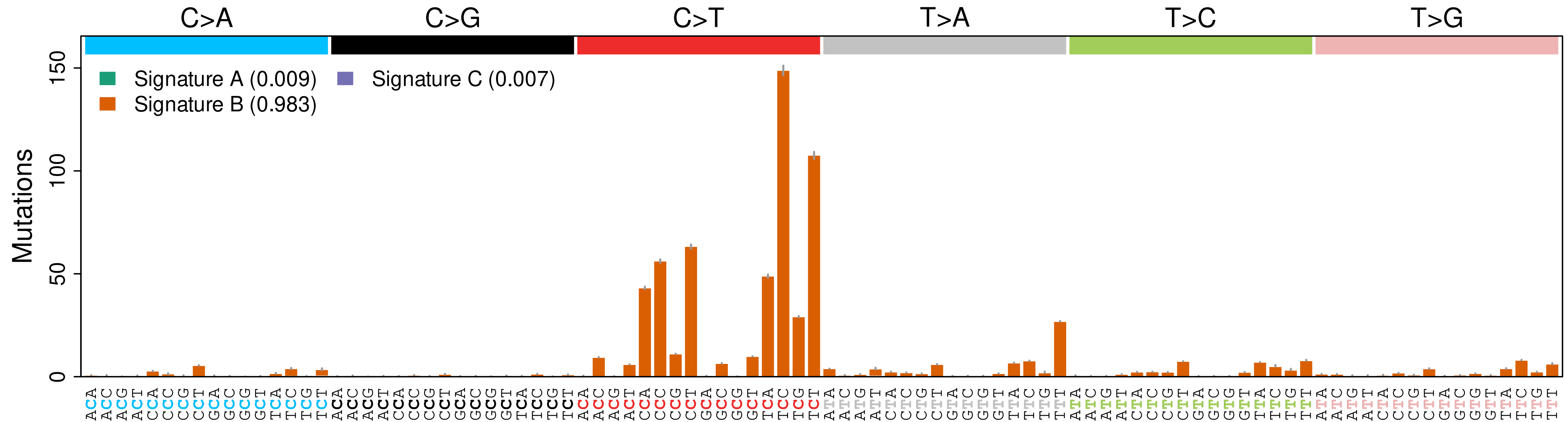
Reconstructed spectrum (cosine similarity = 0.992)



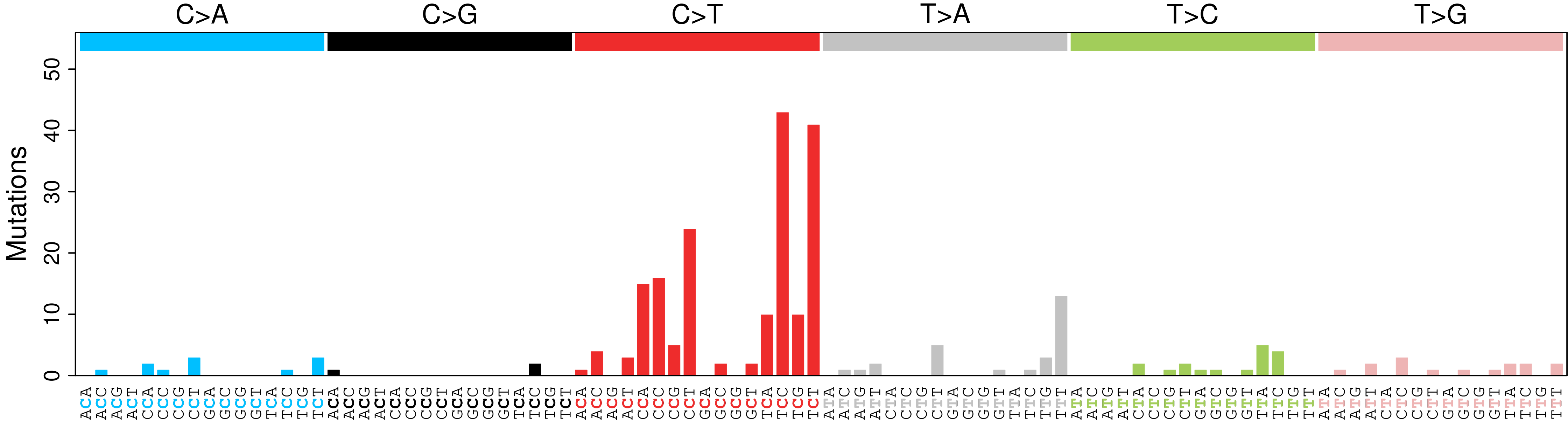
CATD268a (715 mutations)



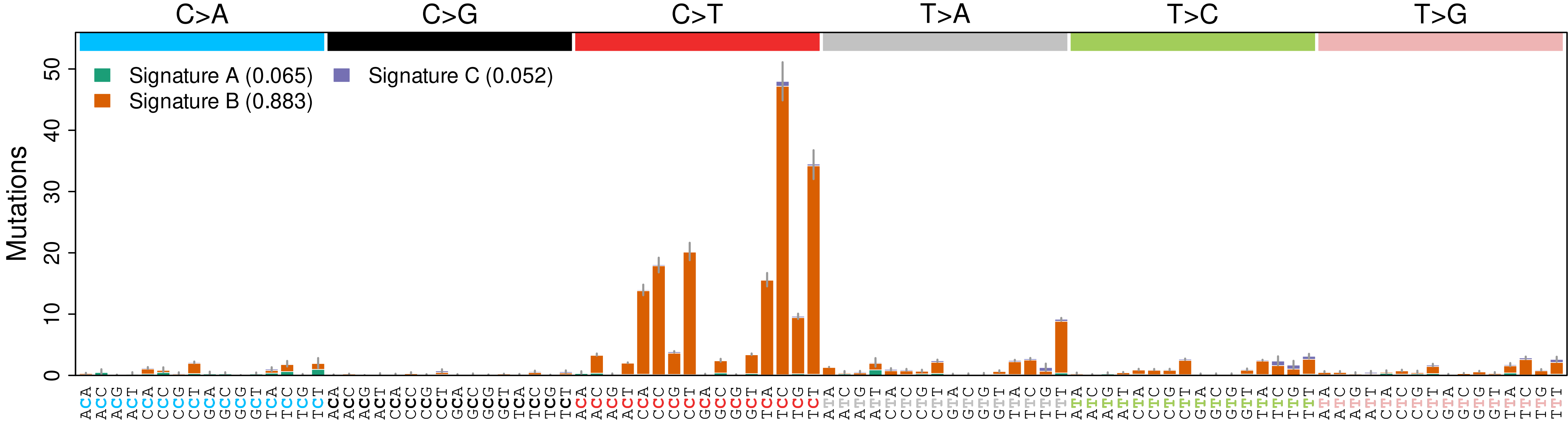
Reconstructed spectrum (cosine similarity = 0.978)



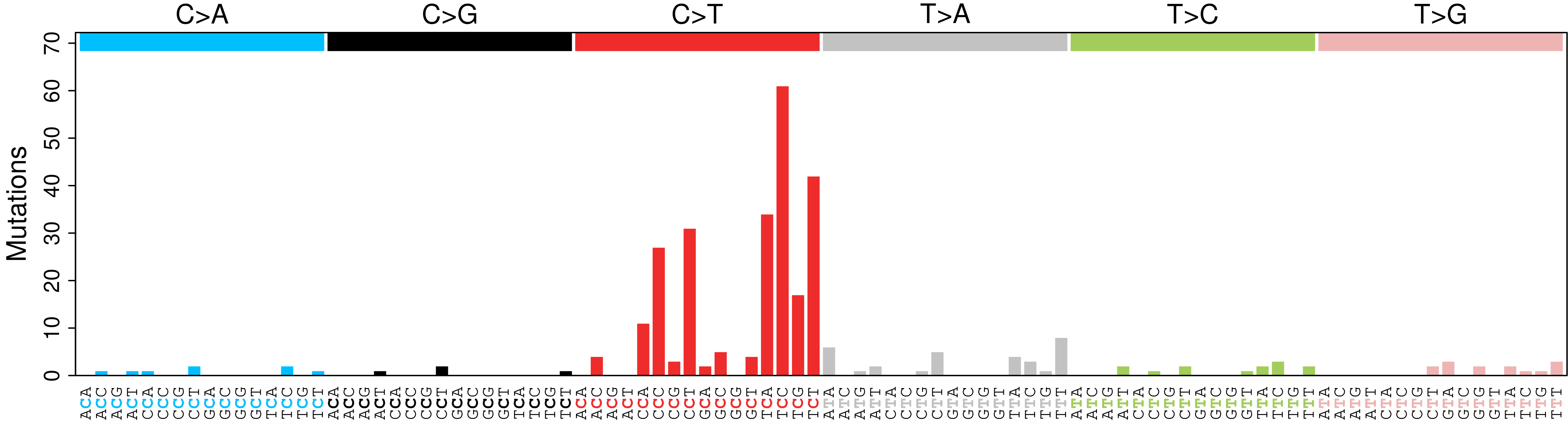
CATD187a (249 mutations)



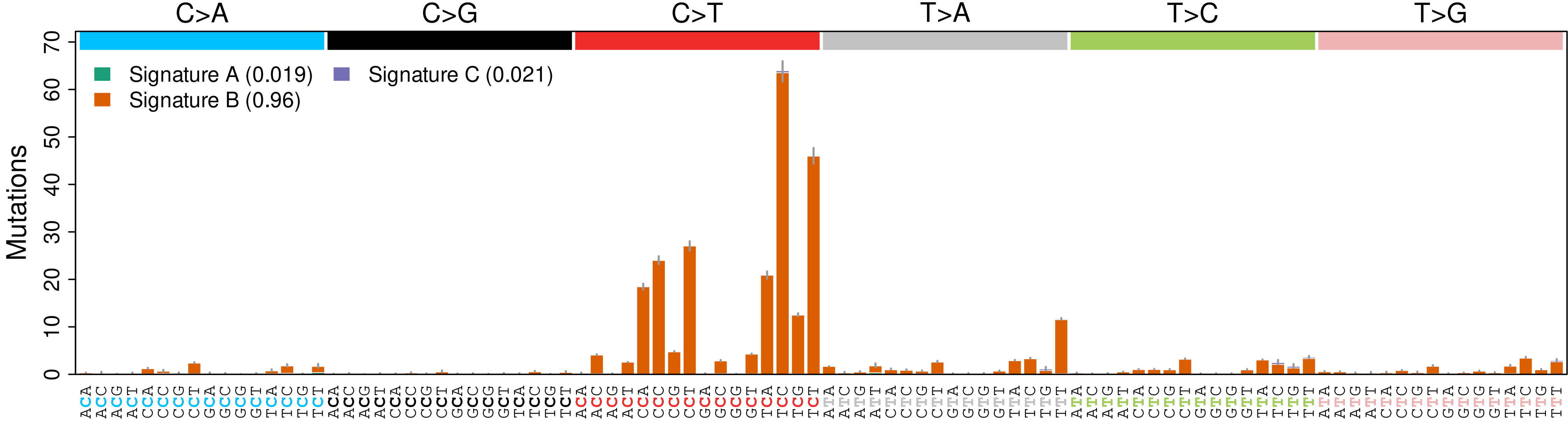
Reconstructed spectrum (cosine similarity = 0.98)



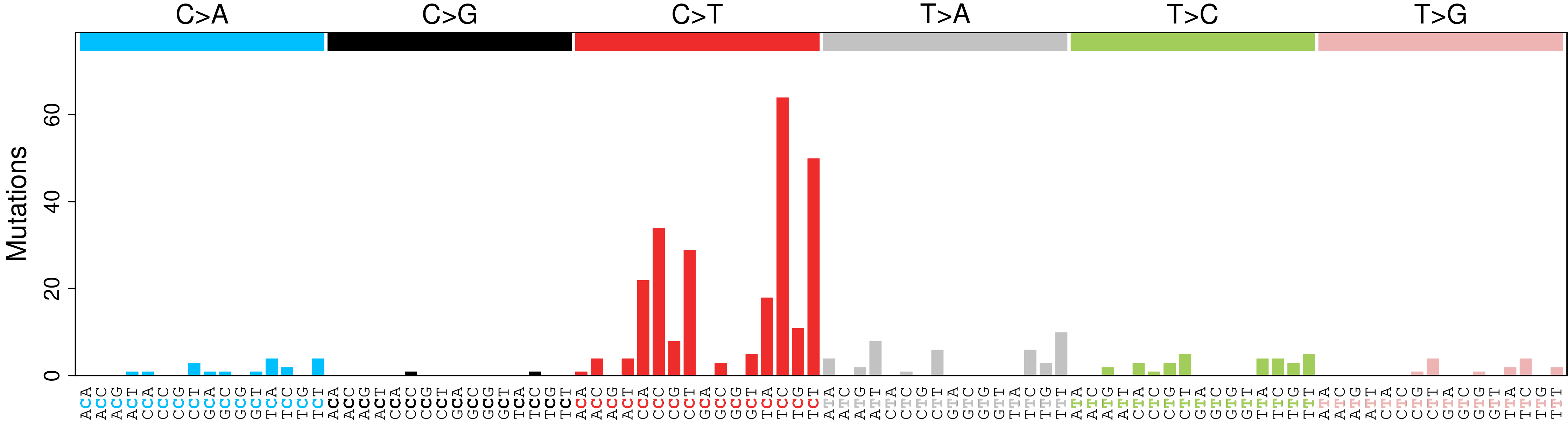
CATD0123a (311 mutations)



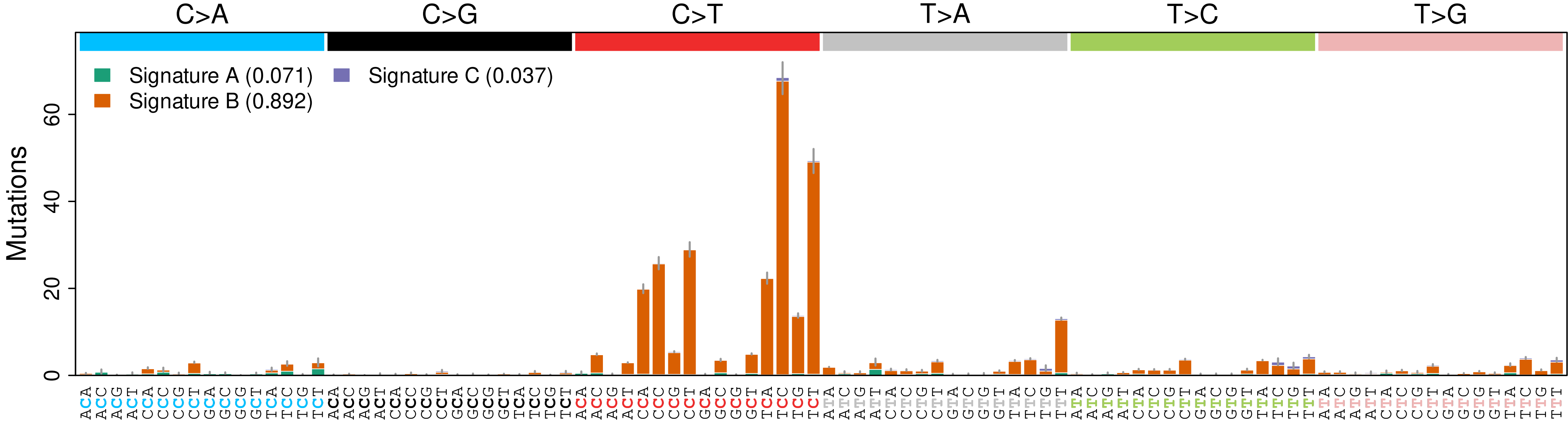
Reconstructed spectrum (cosine similarity = 0.978)



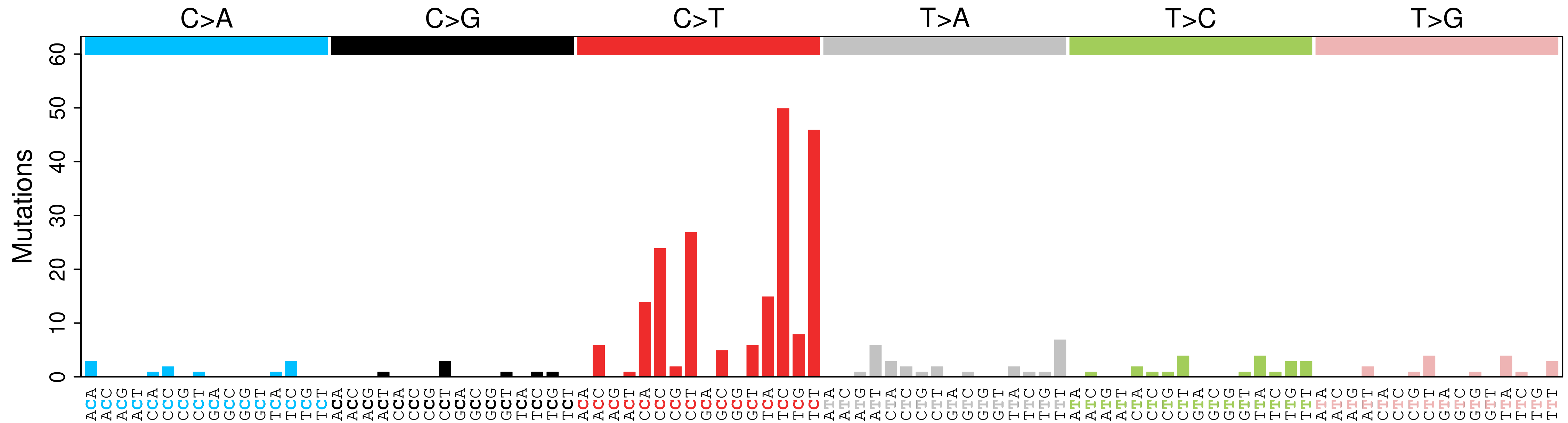
CATD255a (357 mutations)



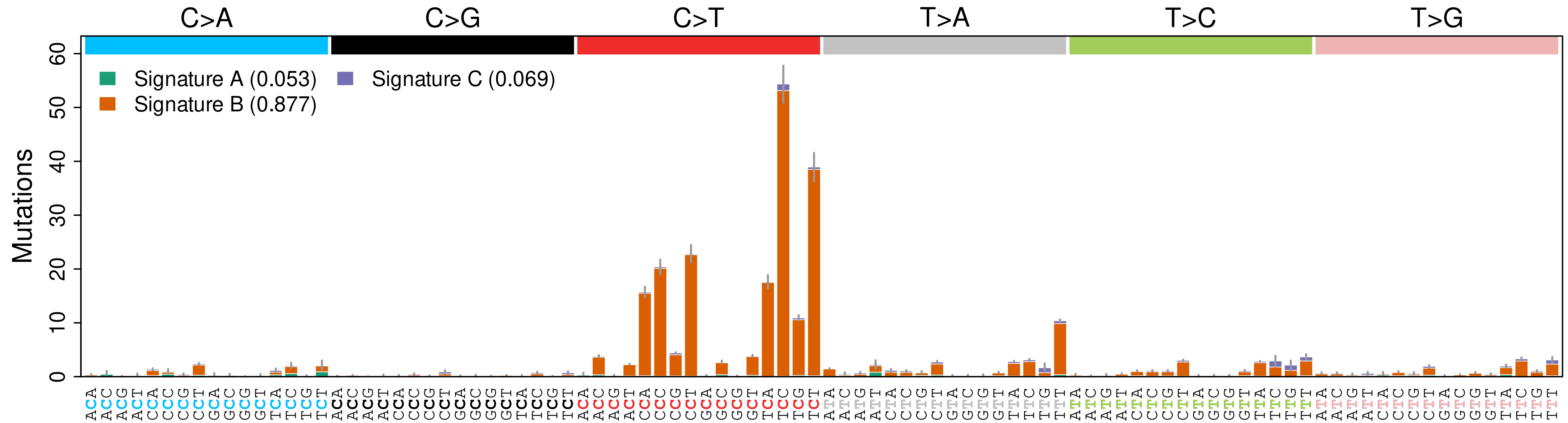
Reconstructed spectrum (cosine similarity = 0.988)



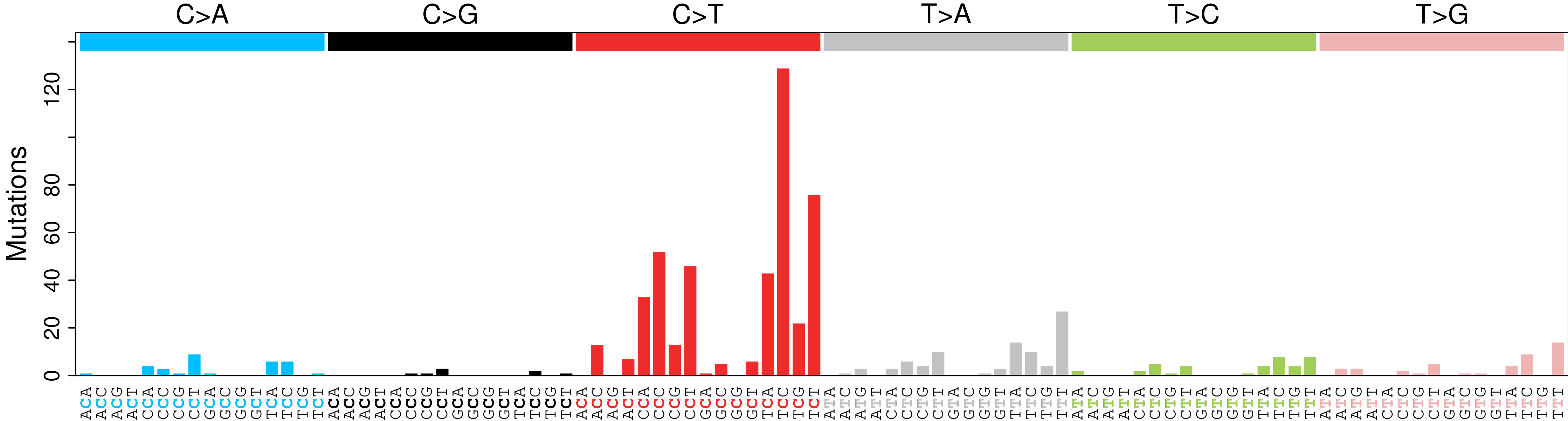
CATD244a (286 mutations)



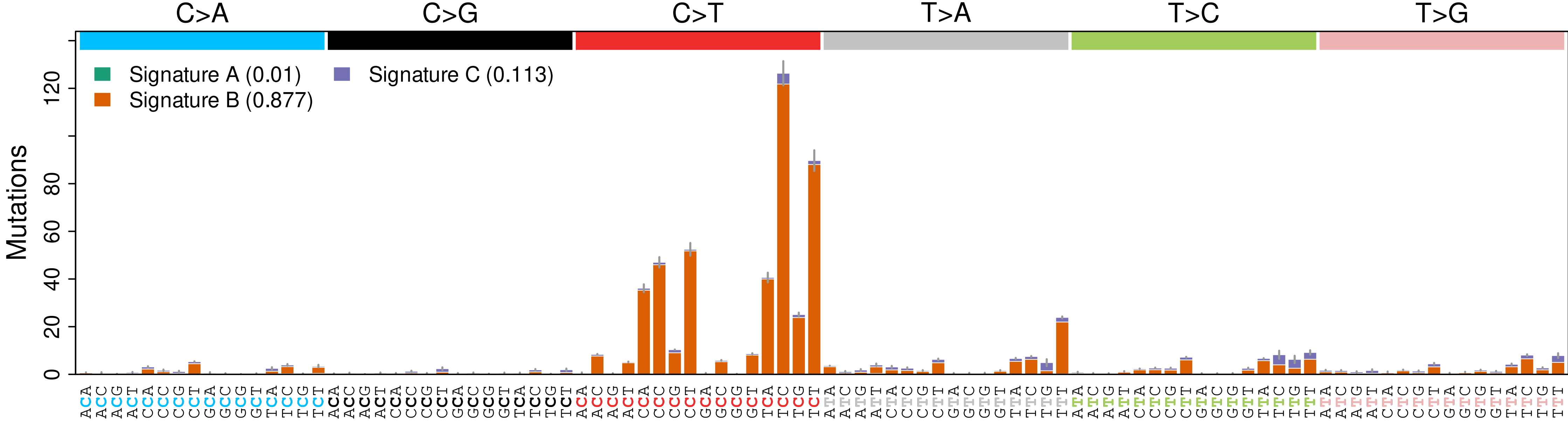
Reconstructed spectrum (cosine similarity = 0.983)



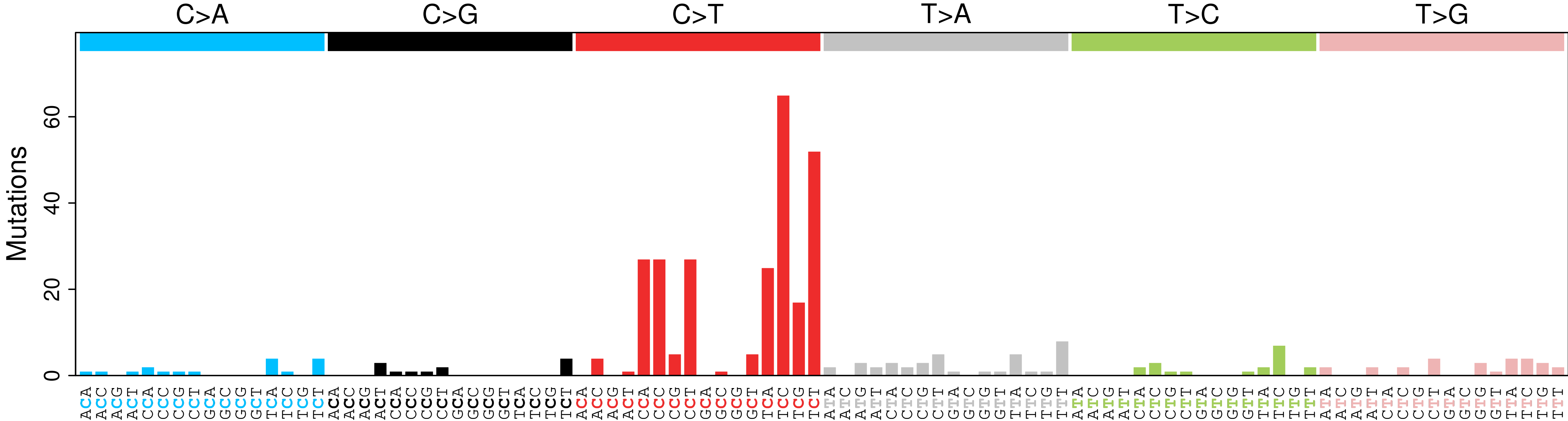
CATD0120a (654 mutations)



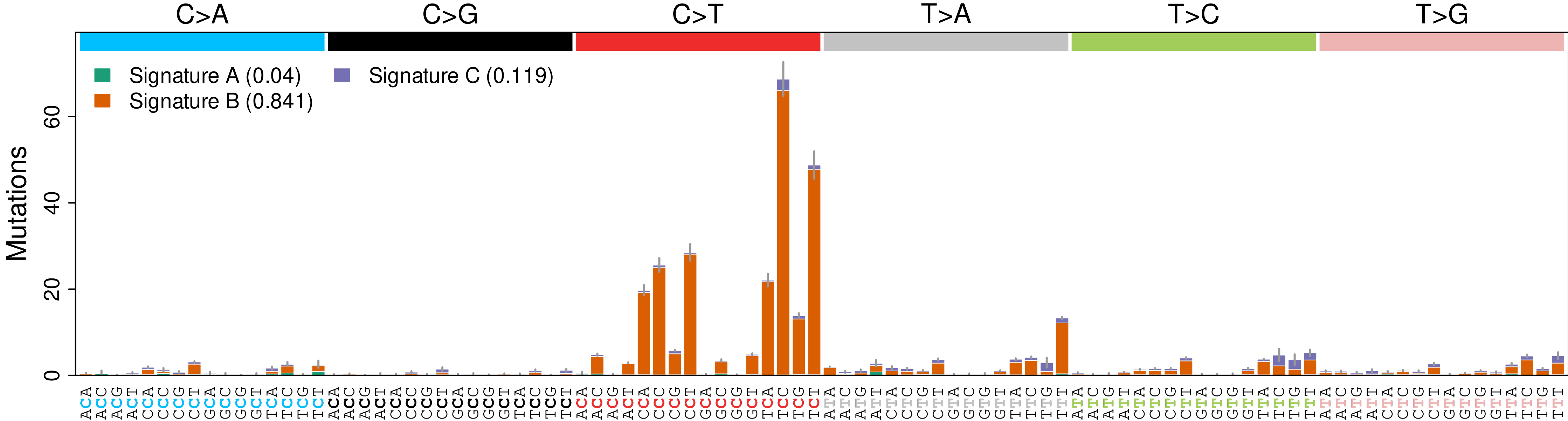
Reconstructed spectrum (cosine similarity = 0.991)



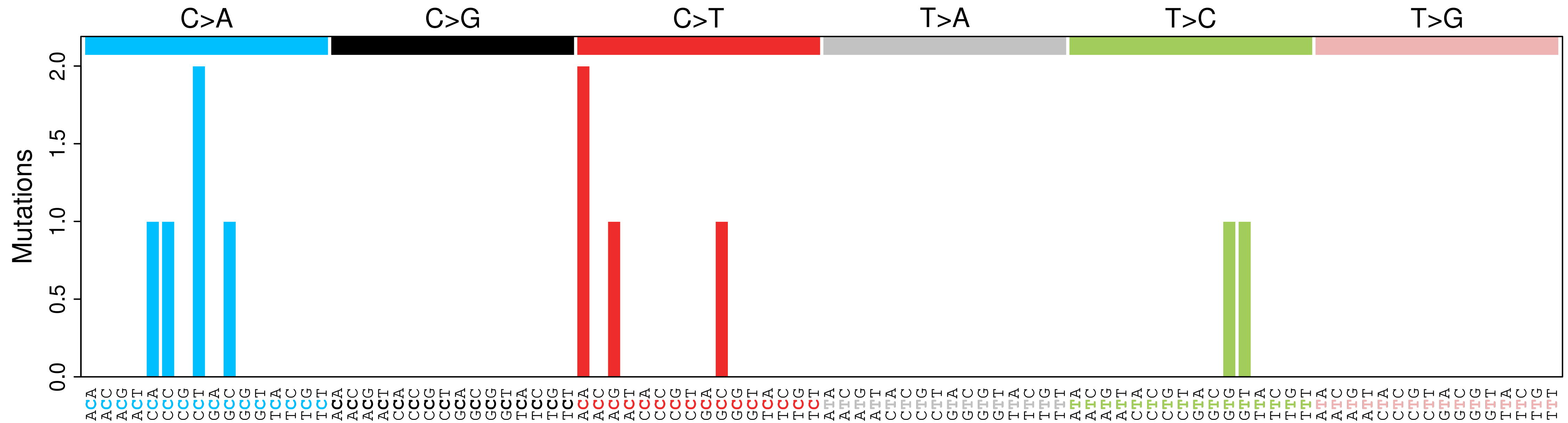
CATD246a (369 mutations)



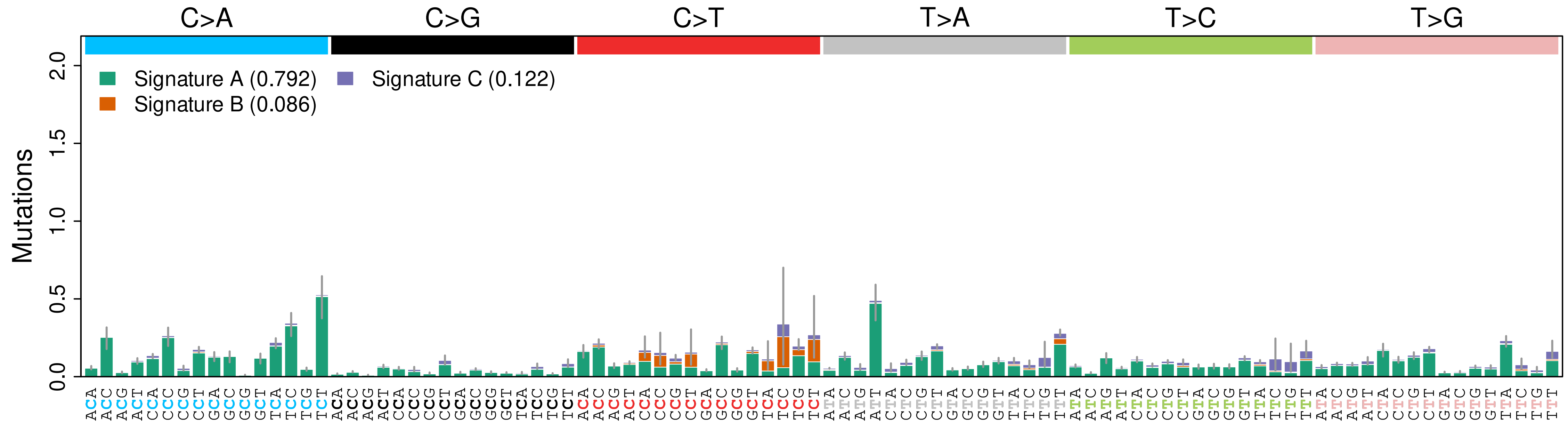
Reconstructed spectrum (cosine similarity = 0.987)



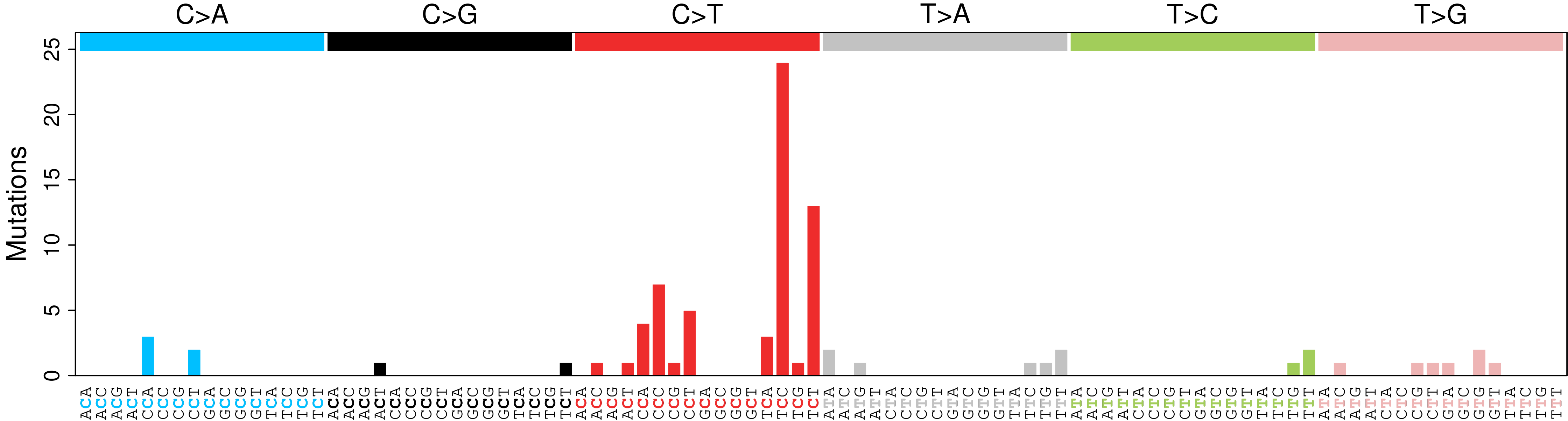
CATD279a (11 mutations)



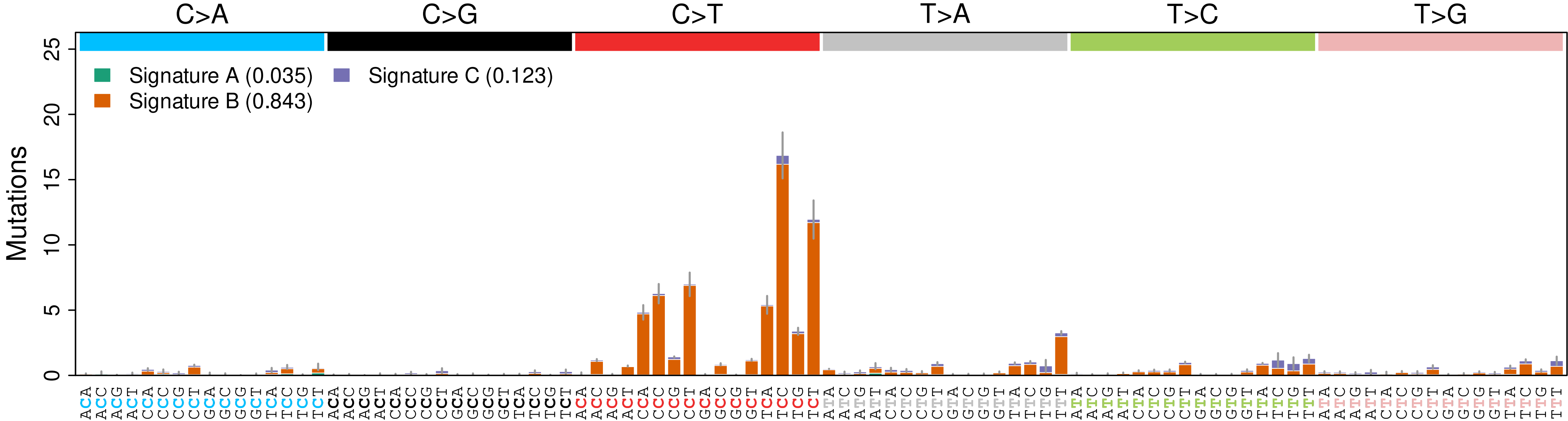
Reconstructed spectrum (cosine similarity = 0.305)



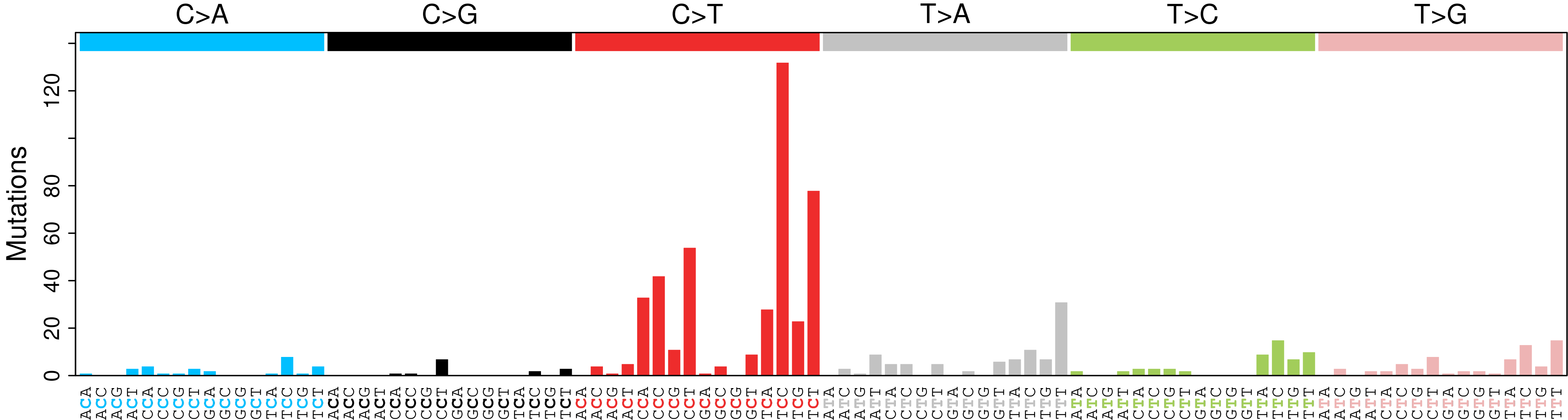
CATD280a (84 mutations)



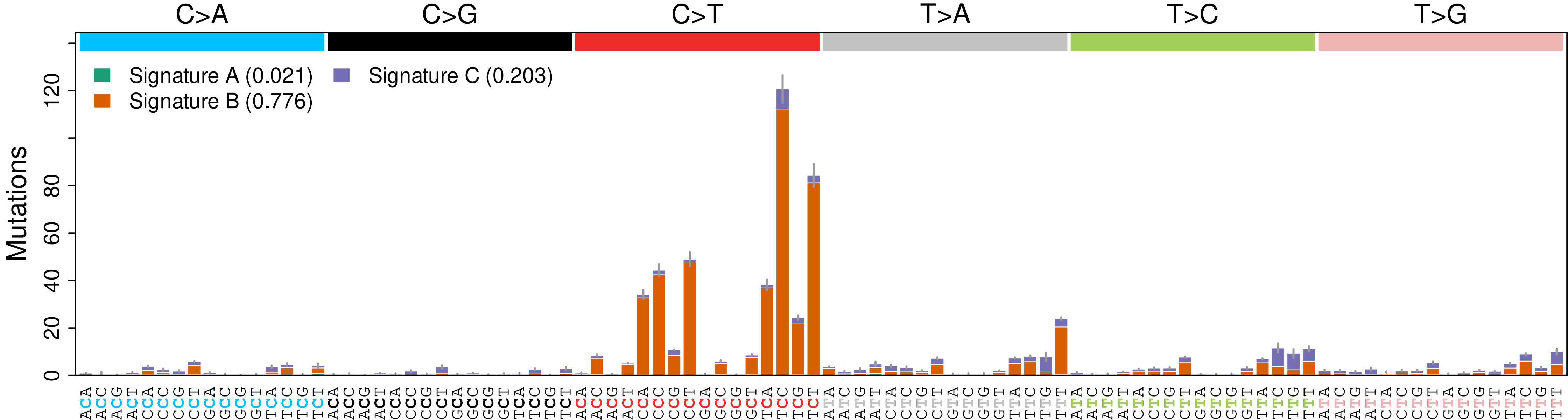
Reconstructed spectrum (cosine similarity = 0.948)



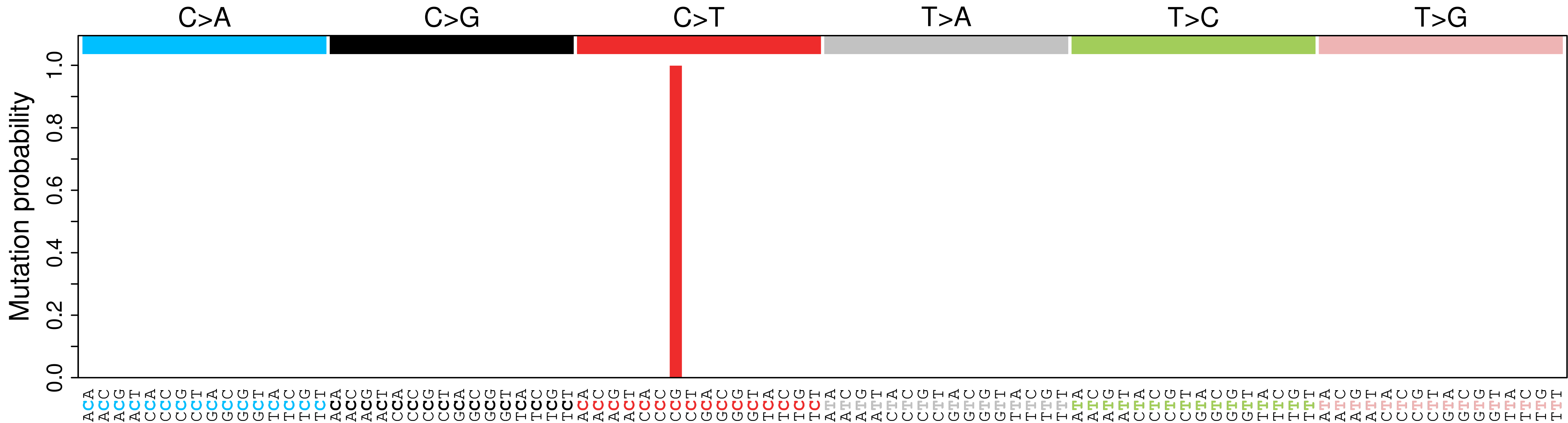
CATD272a (684 mutations)



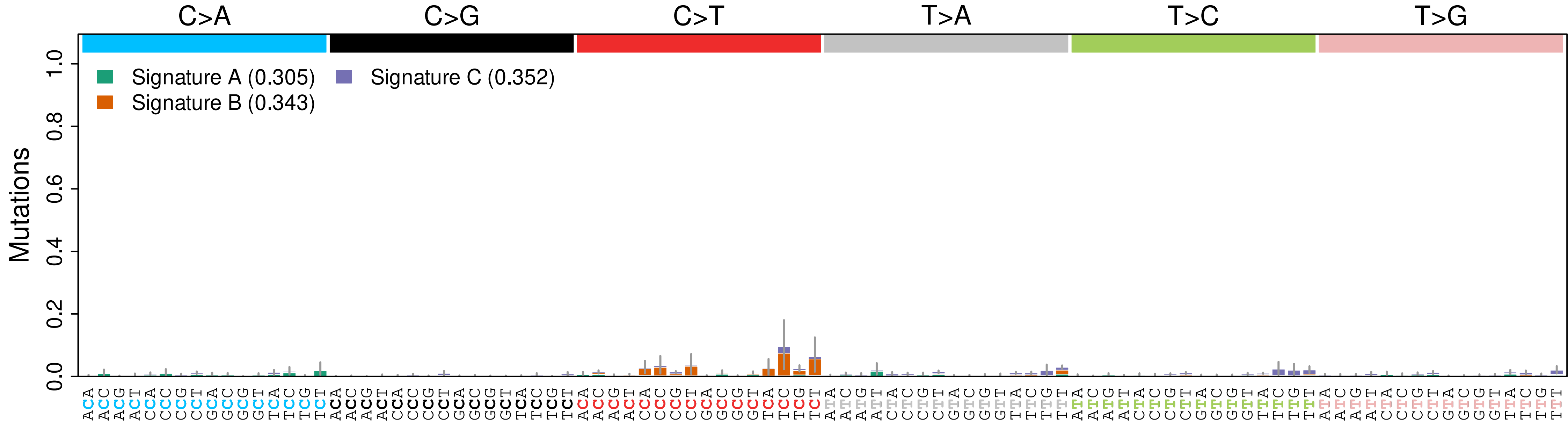
Reconstructed spectrum (cosine similarity = 0.991)



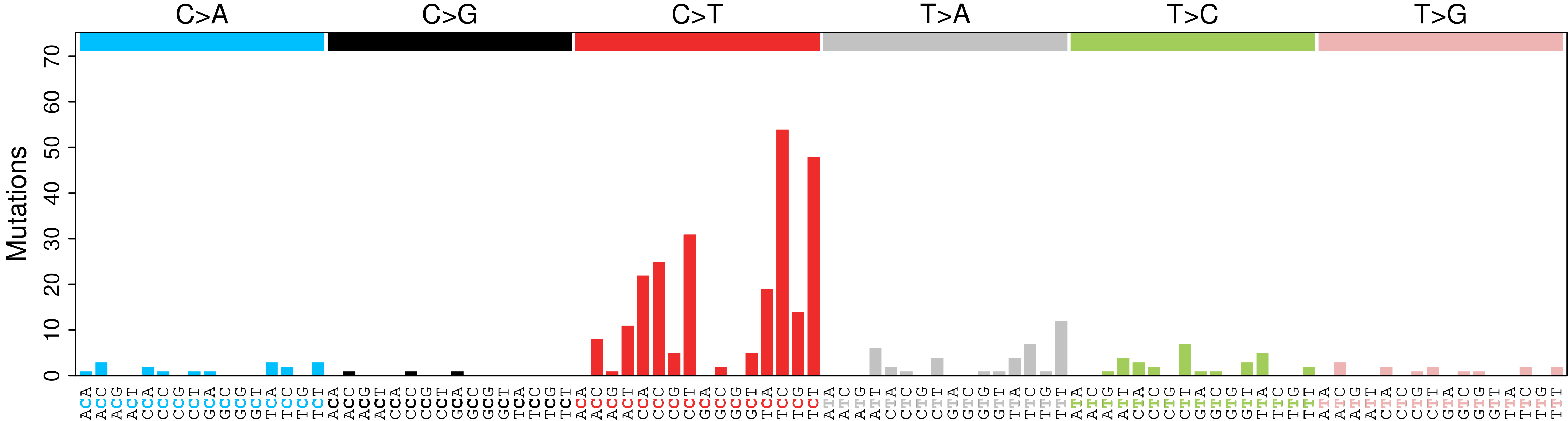
CATD275a



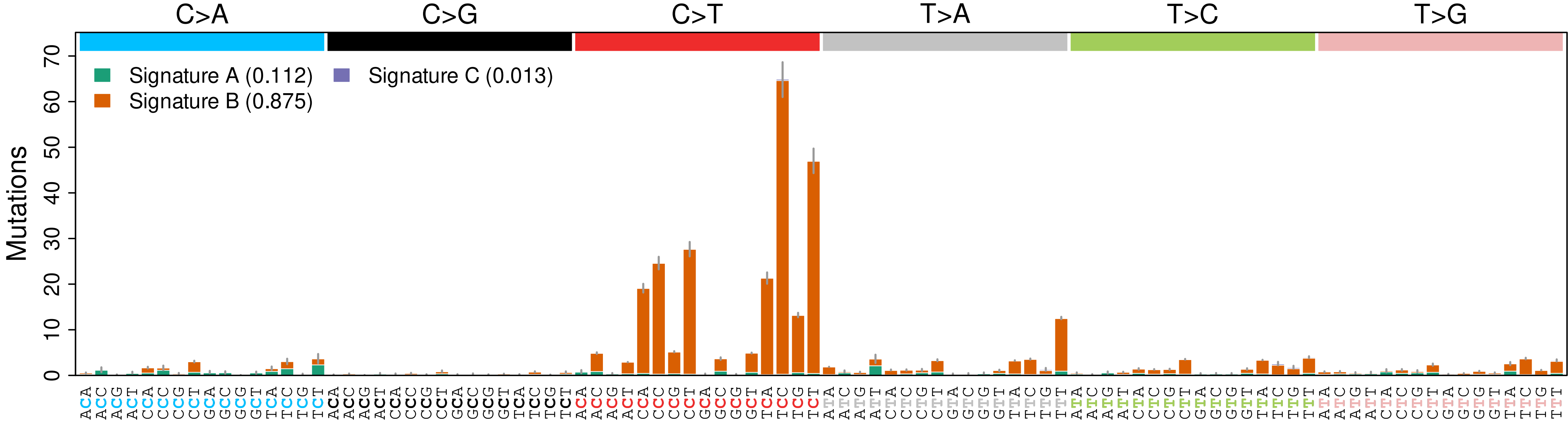
Reconstructed spectrum (cosine similarity = 0.088)



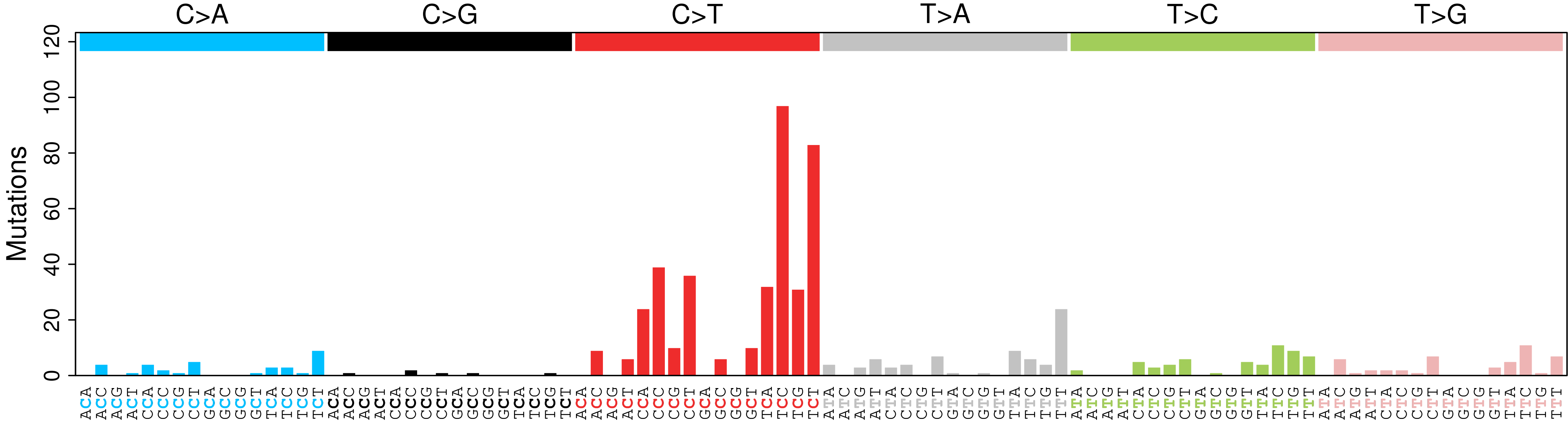
CATD276a (347 mutations)



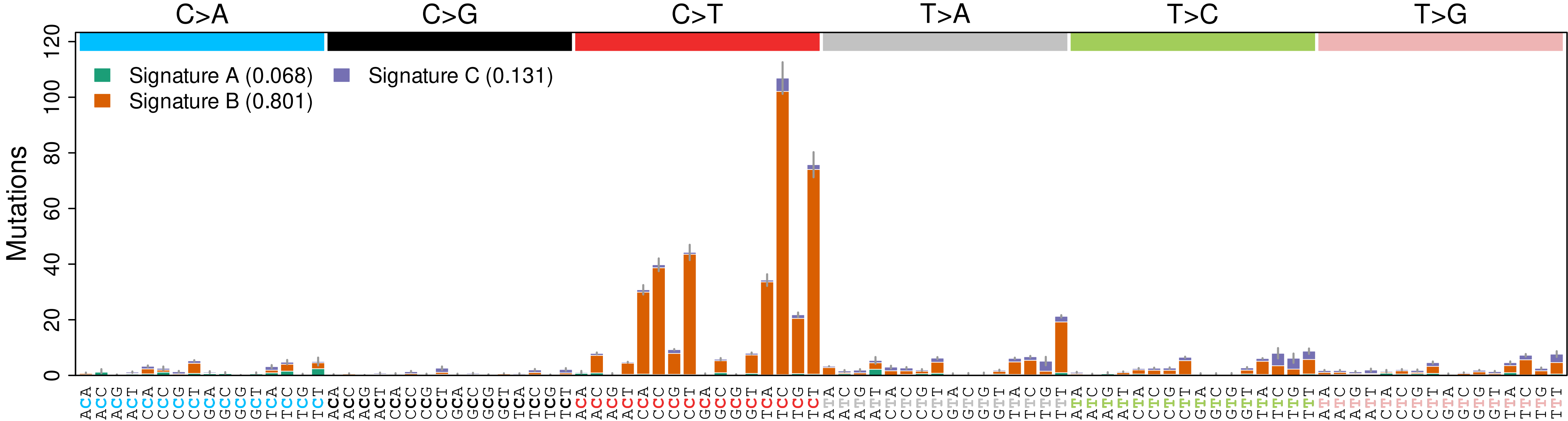
Reconstructed spectrum (cosine similarity = 0.982)



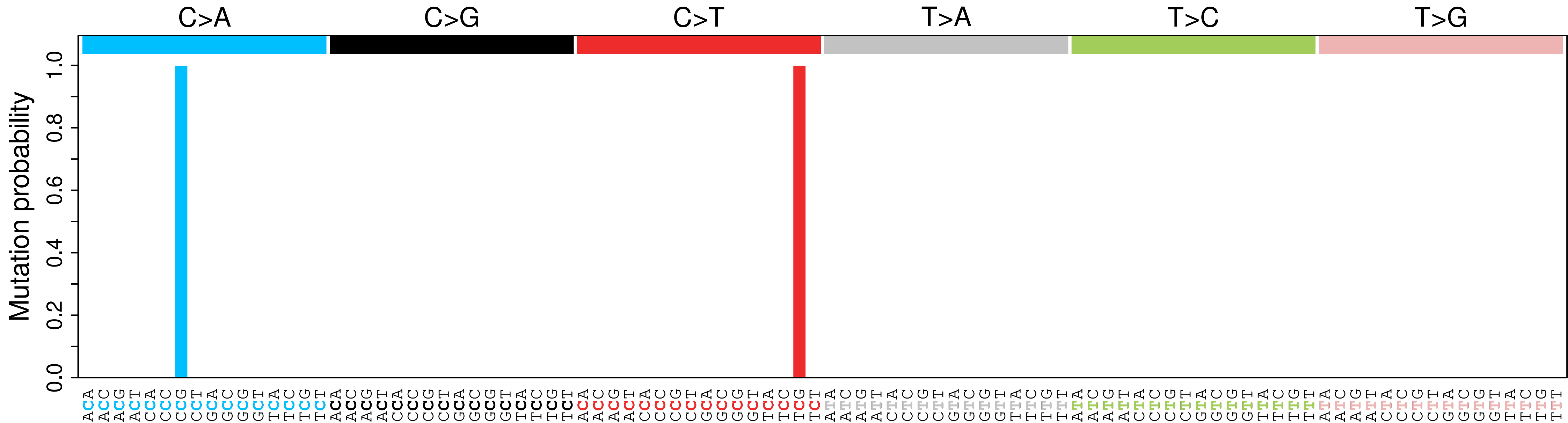
CATD253a (600 mutations)



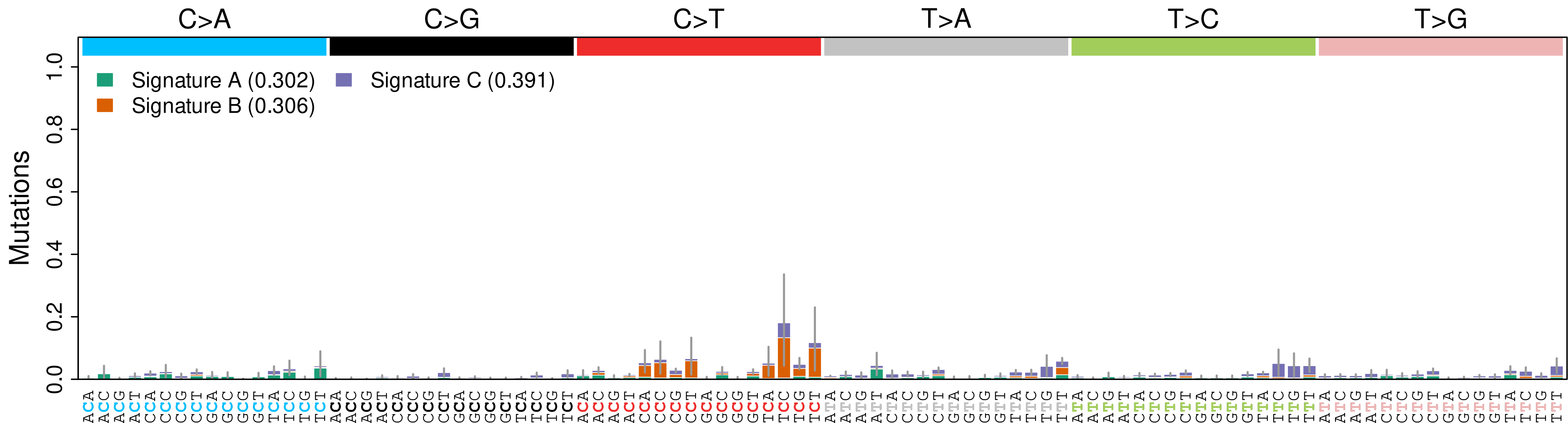
Reconstructed spectrum (cosine similarity = 0.989)



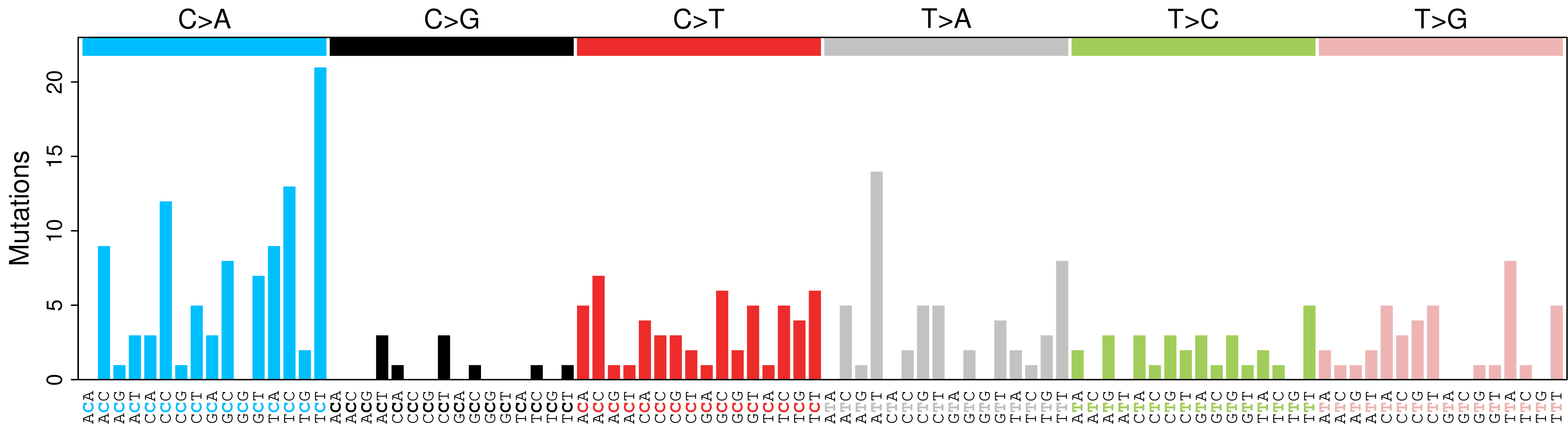
CATD267a



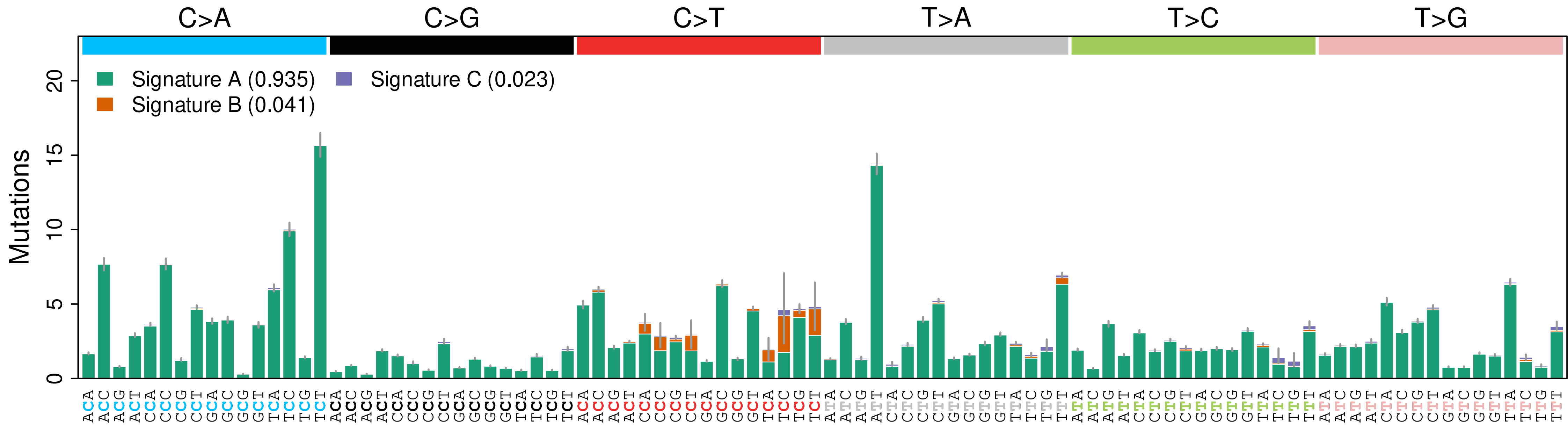
Reconstructed spectrum (cosine similarity = 0.132)



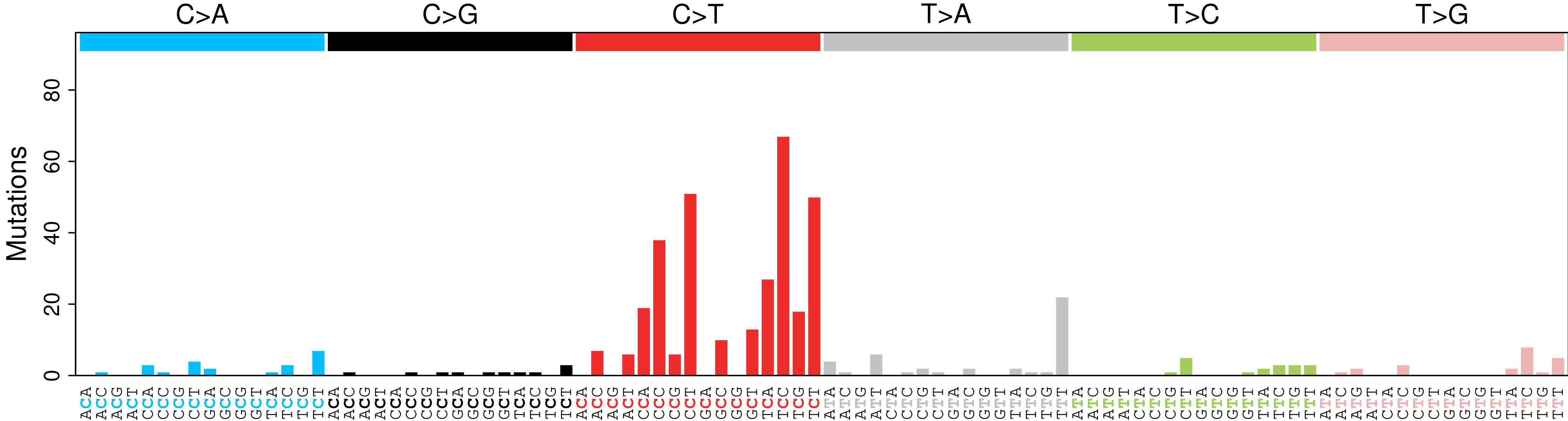
CATD186a (284 mutations)



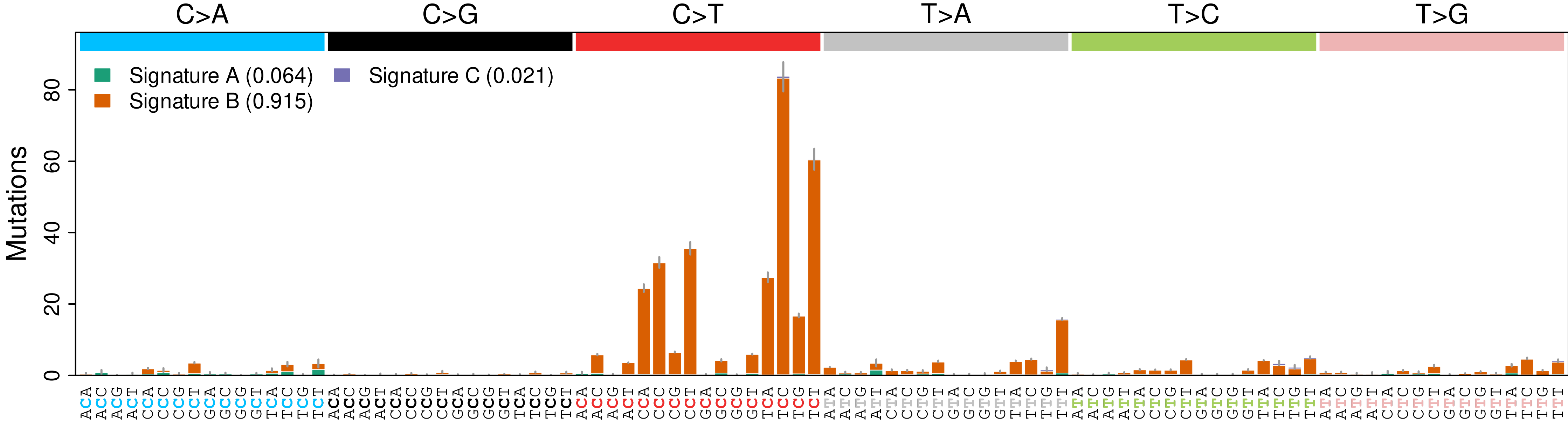
Reconstructed spectrum (cosine similarity = 0.966)



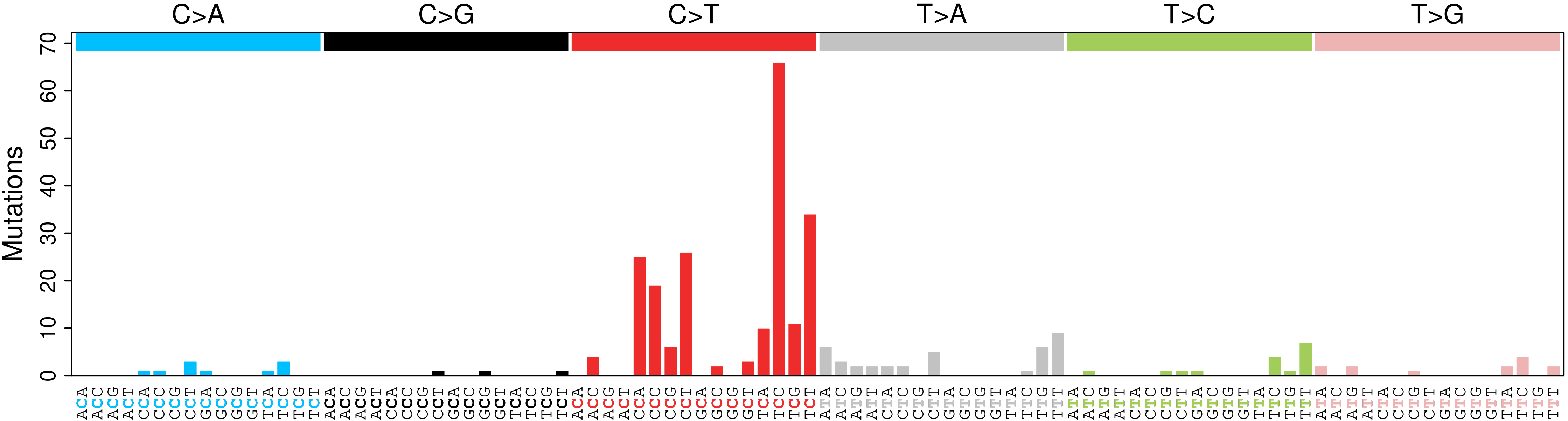
CATD0632c (428 mutations)



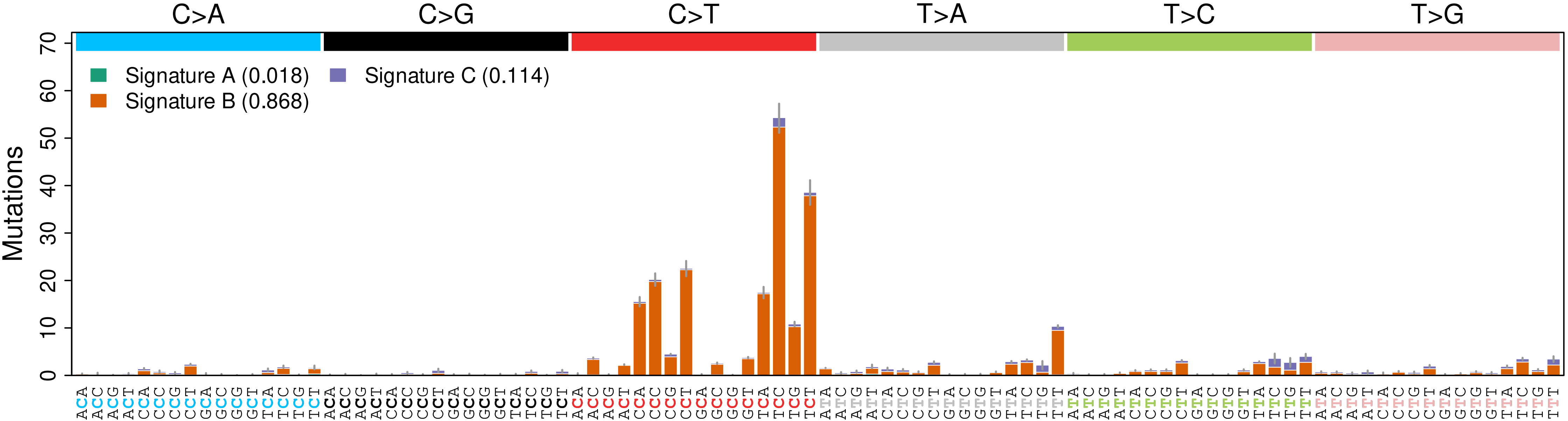
Reconstructed spectrum (cosine similarity = 0.969)



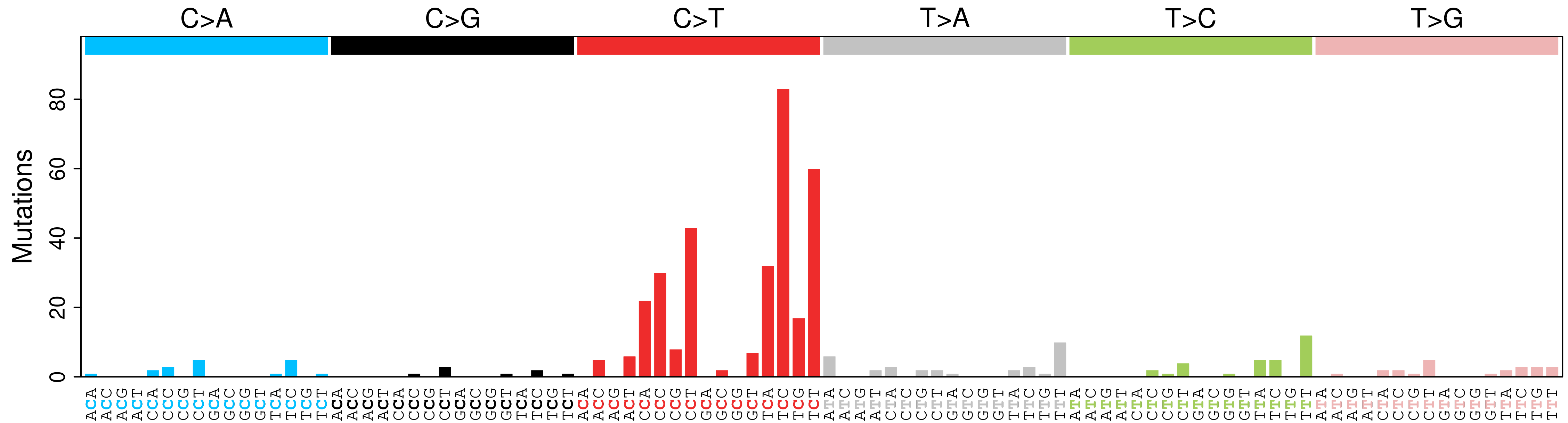
CATD274a (286 mutations)



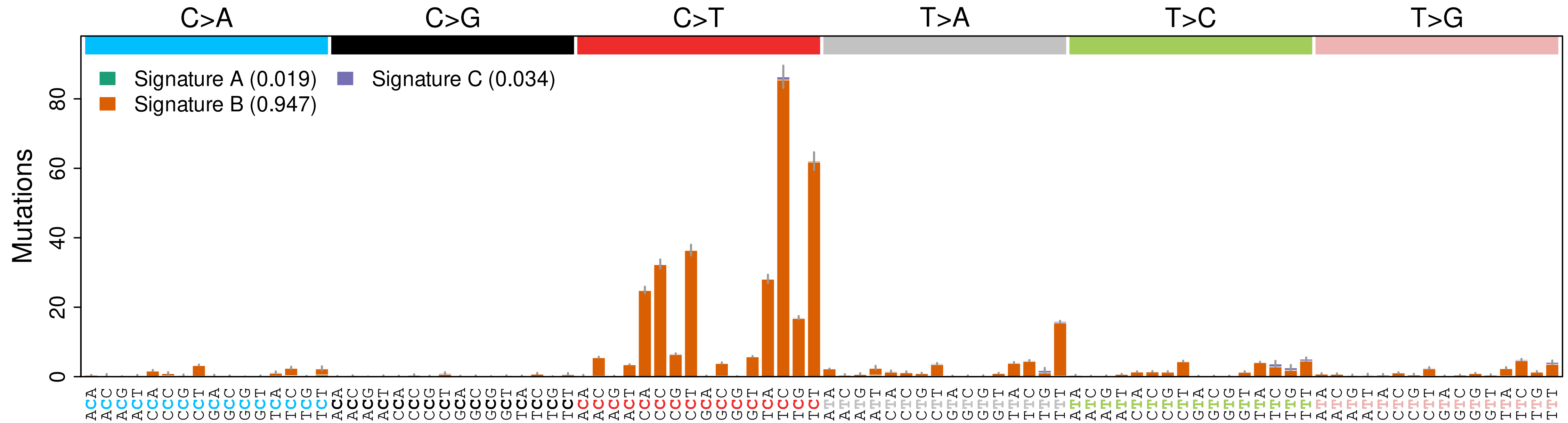
Reconstructed spectrum (cosine similarity = 0.974)



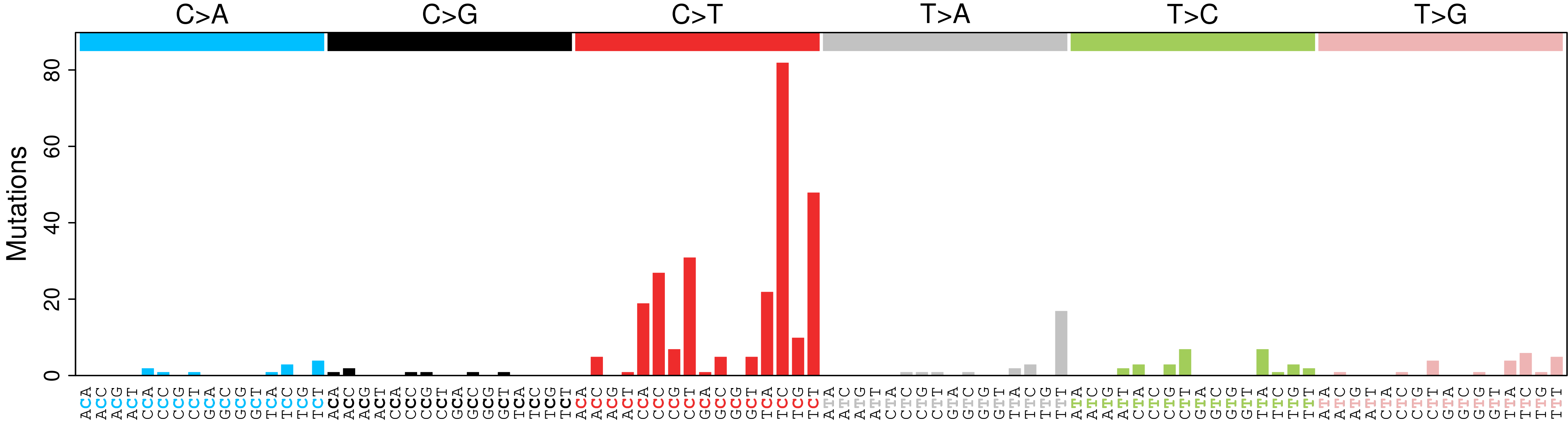
CATD278a (426 mutations)



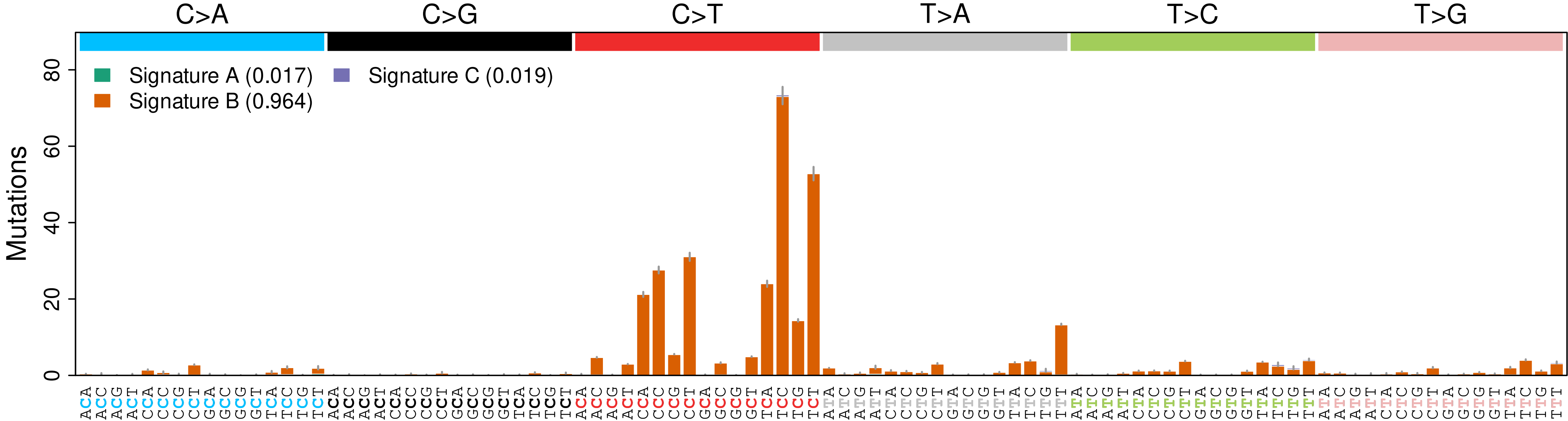
Reconstructed spectrum (cosine similarity = 0.991)



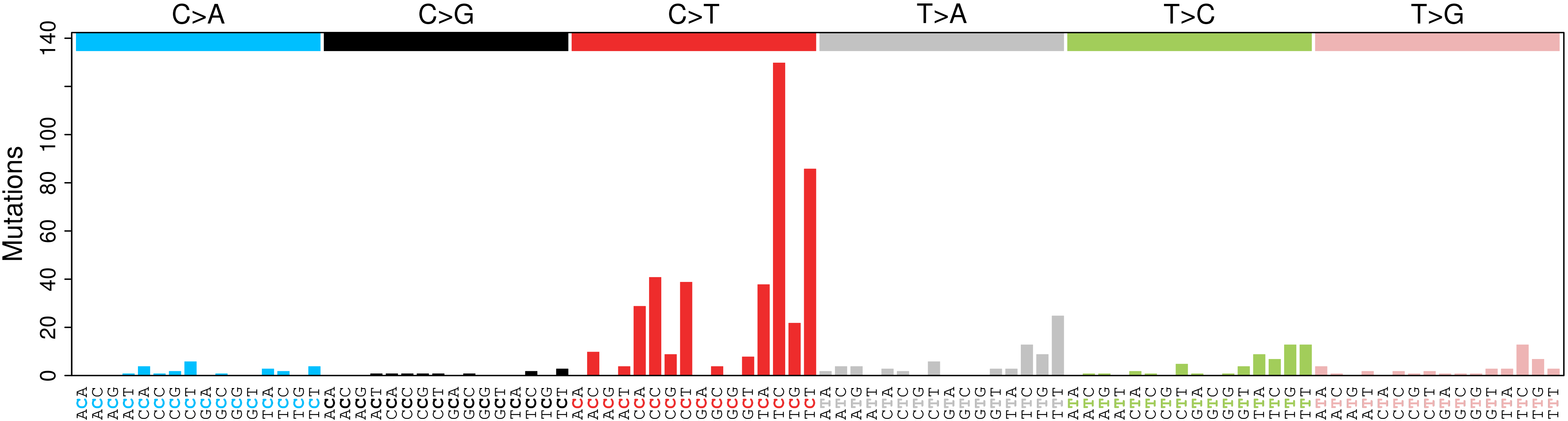
CATD243a (359 mutations)



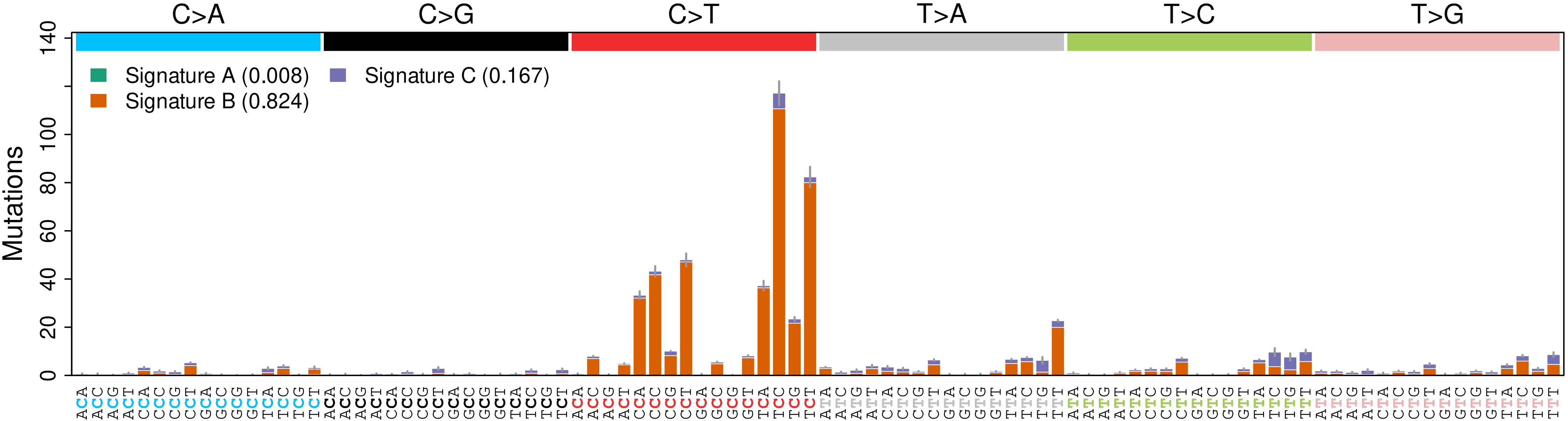
Reconstructed spectrum (cosine similarity = 0.99)



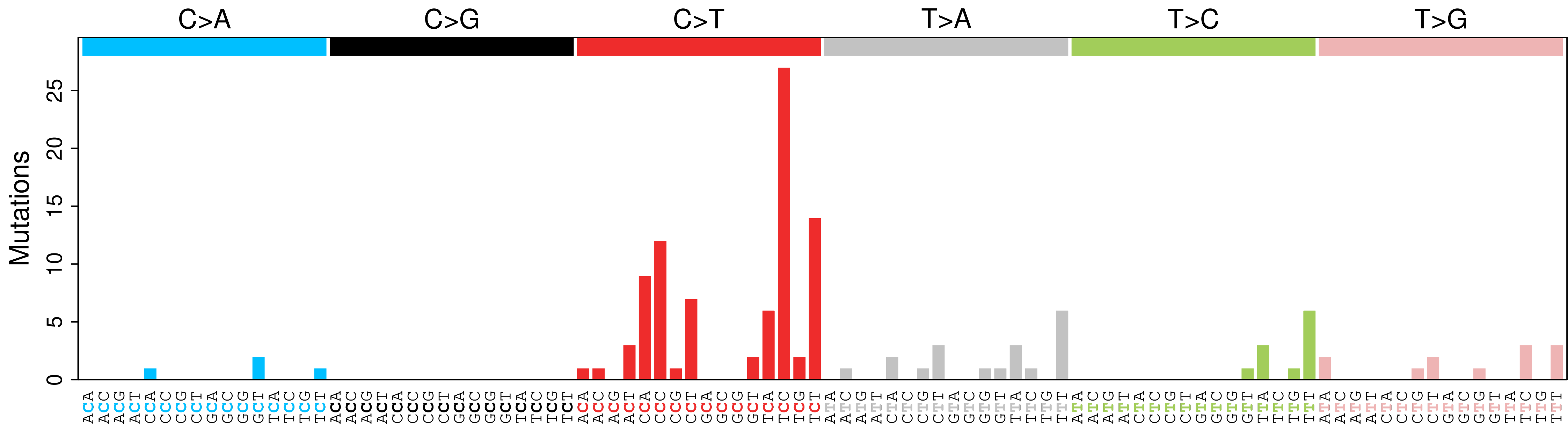
CATD264a (631 mutations)



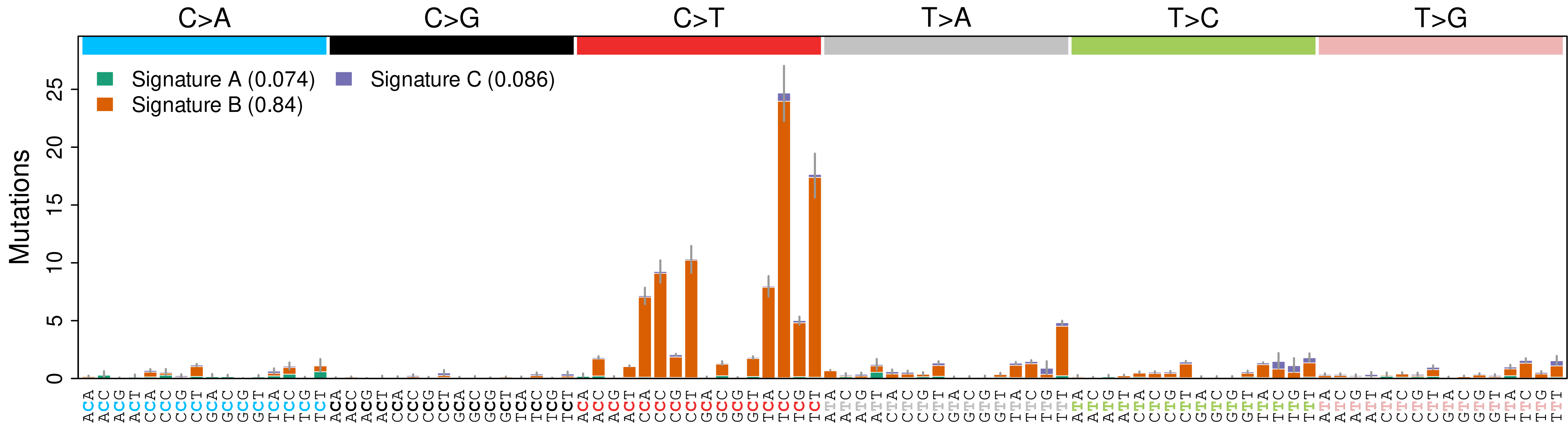
Reconstructed spectrum (cosine similarity = 0.992)



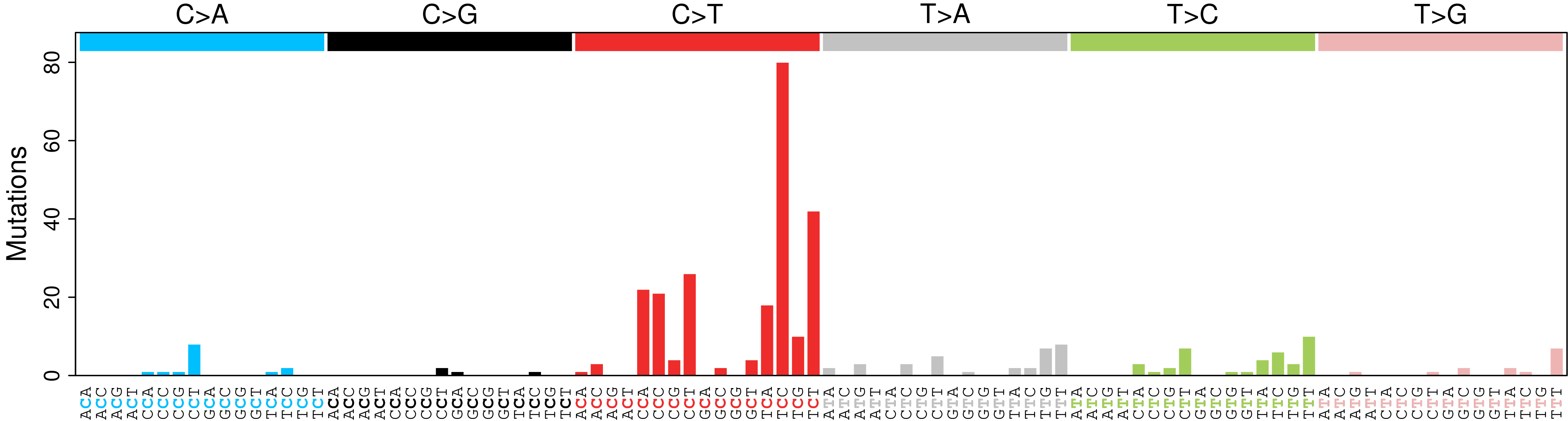
CATD282a (131 mutations)



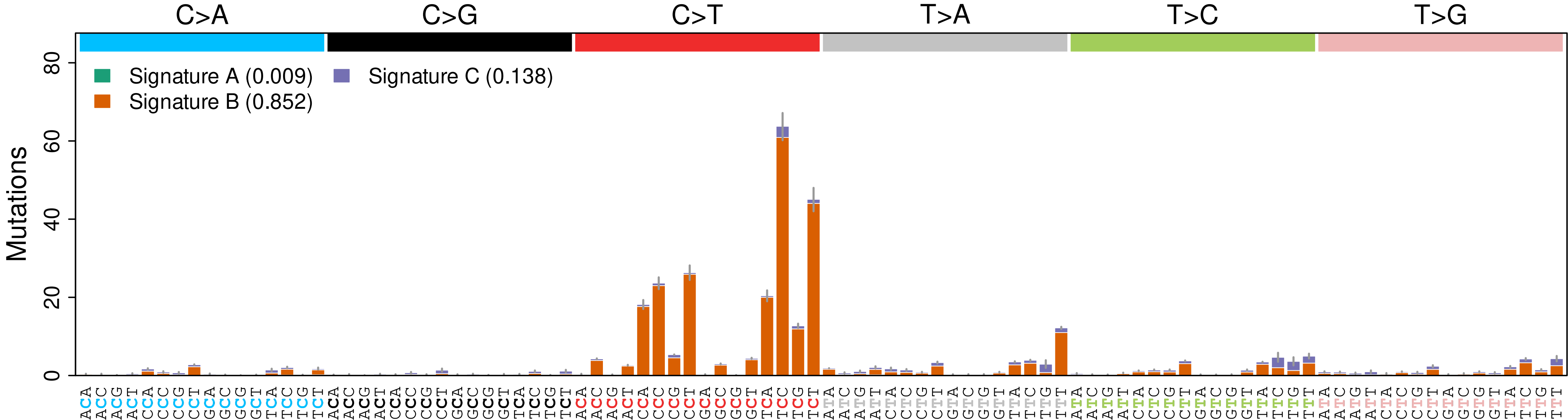
Reconstructed spectrum (cosine similarity = 0.956)



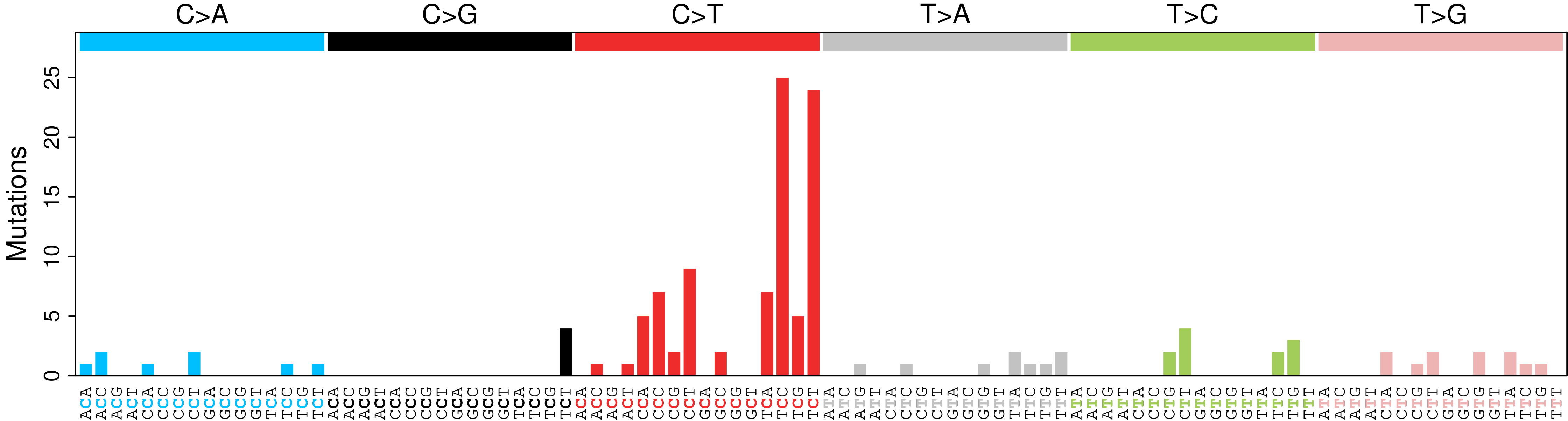
CATD250a (336 mutations)



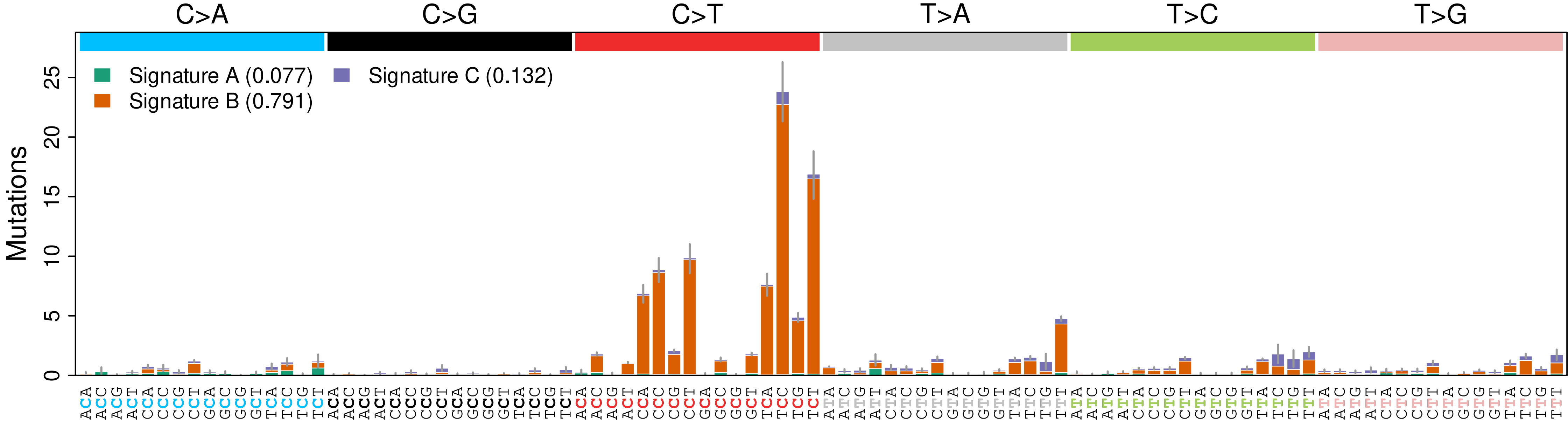
Reconstructed spectrum (cosine similarity = 0.98)



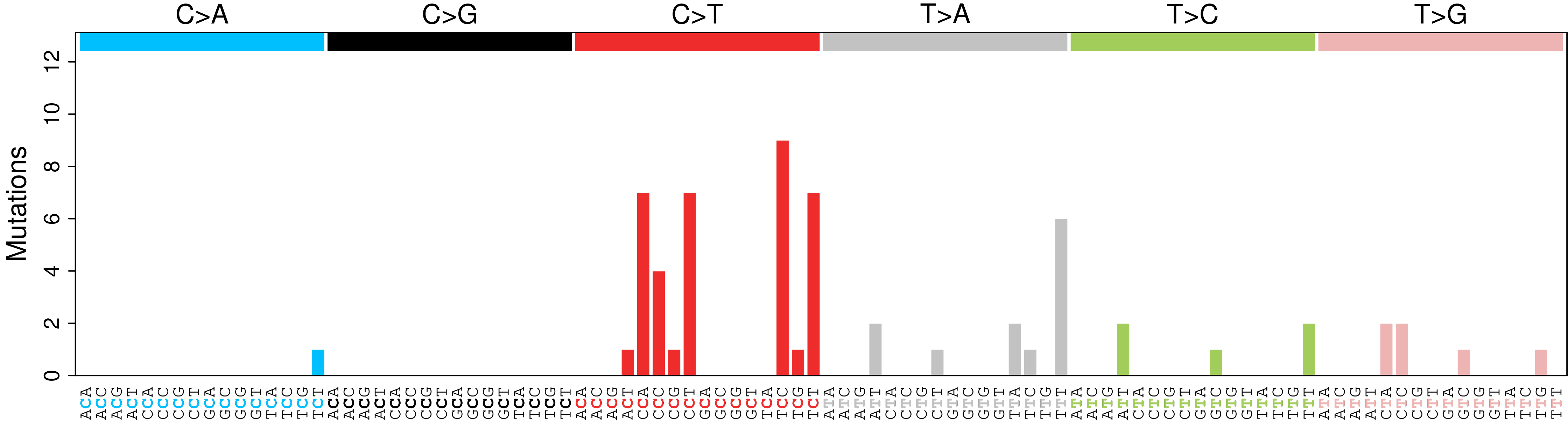
CATD263a (131 mutations)



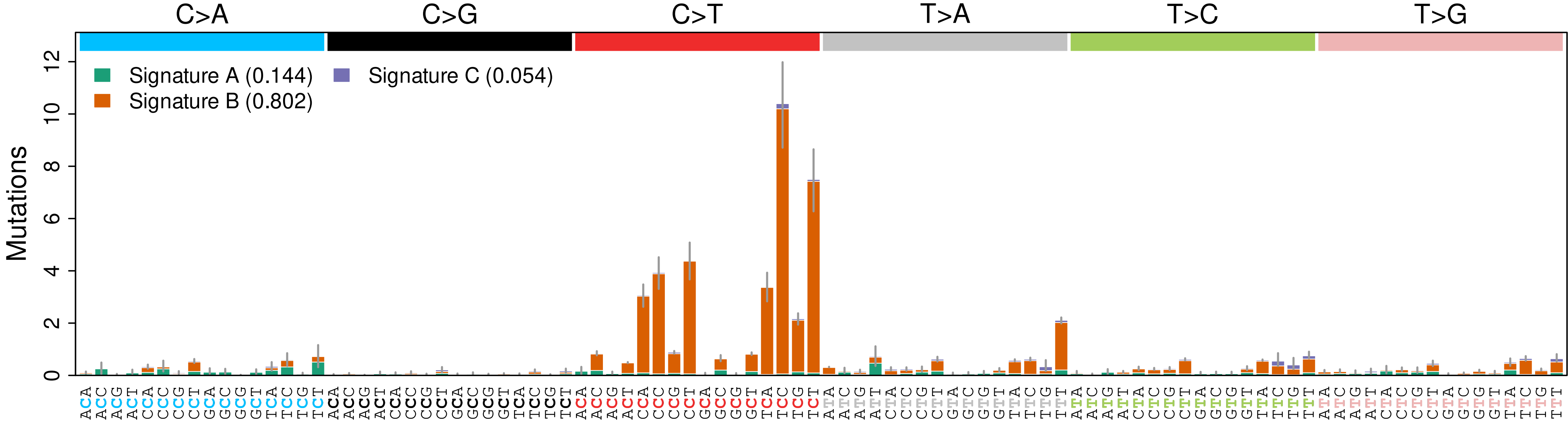
Reconstructed spectrum (cosine similarity = 0.959)



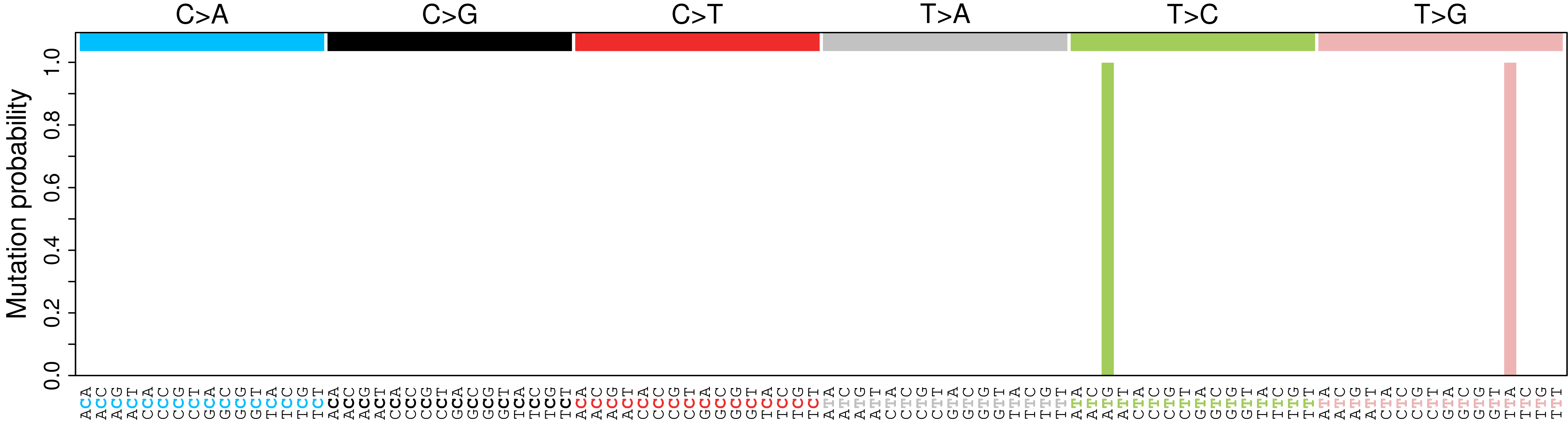
CATD254a (61 mutations)



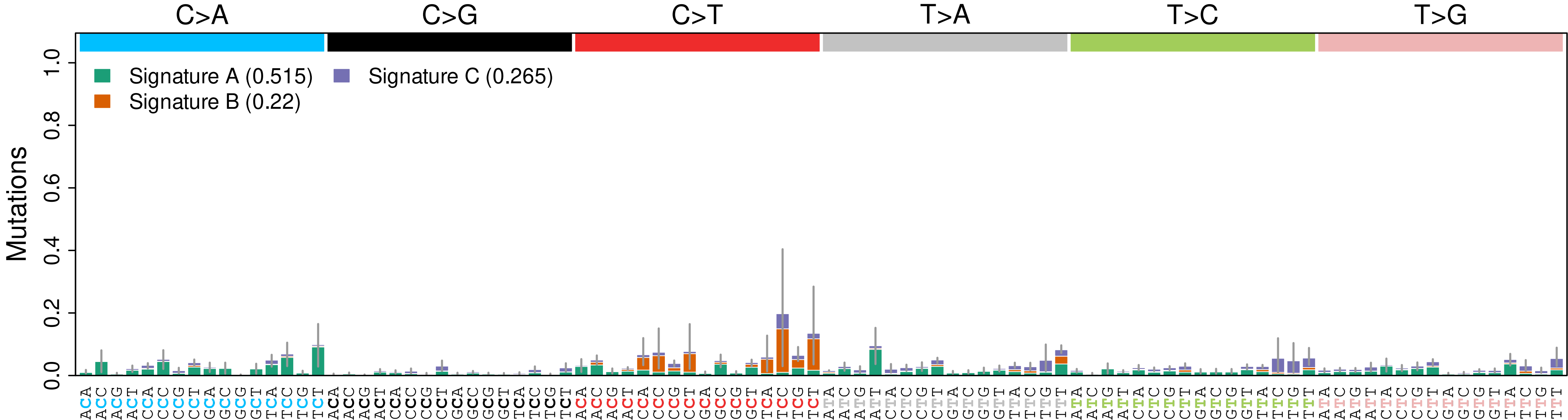
Reconstructed spectrum (cosine similarity = 0.868)



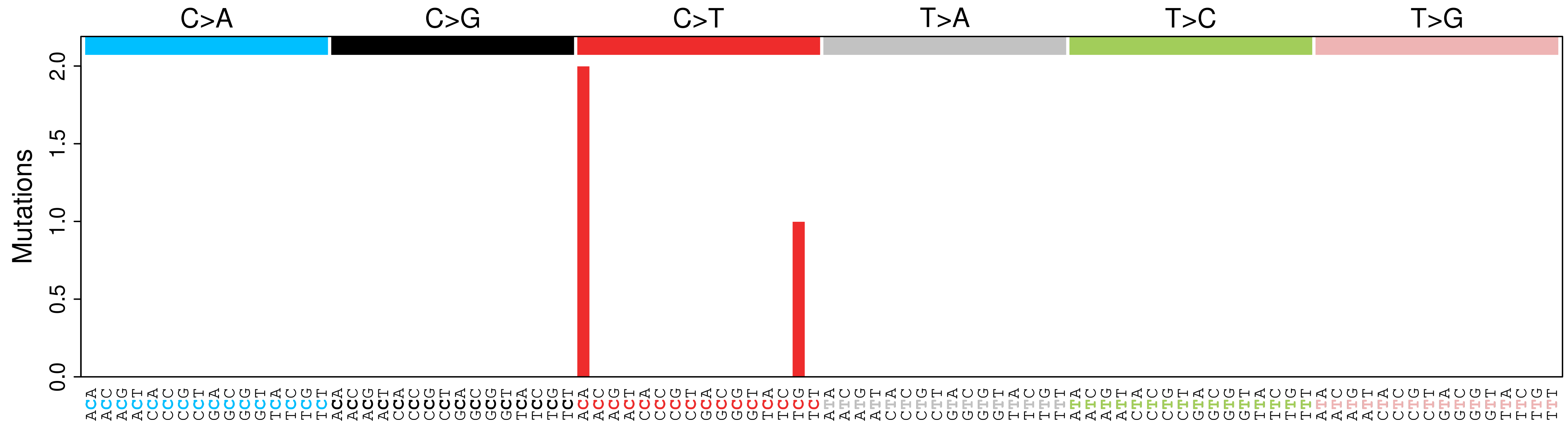
CATD0124a



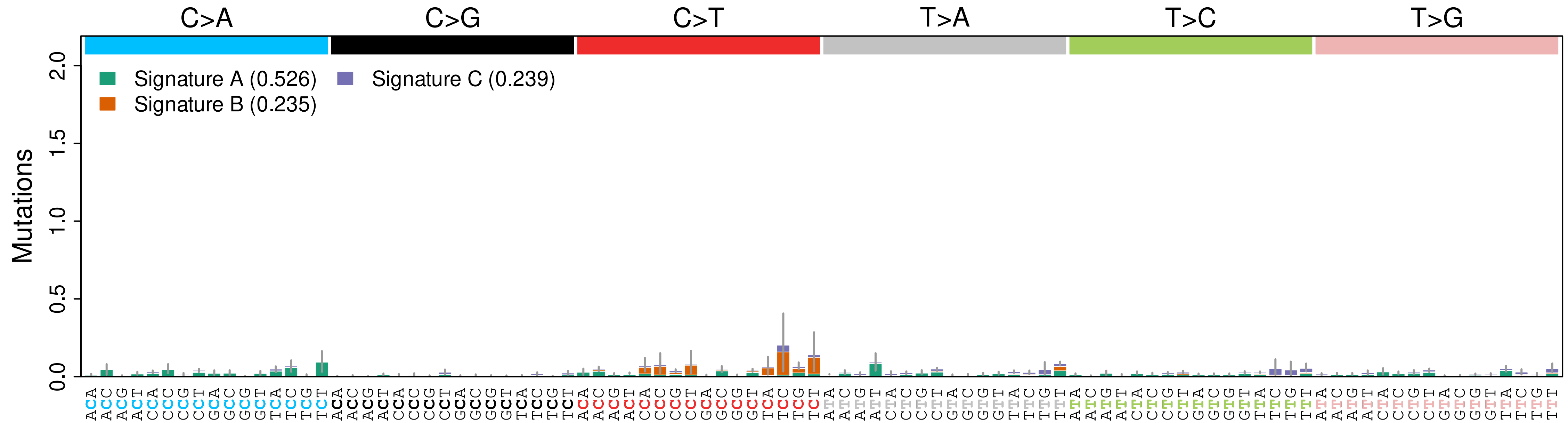
Reconstructed spectrum (cosine similarity = 0.125)



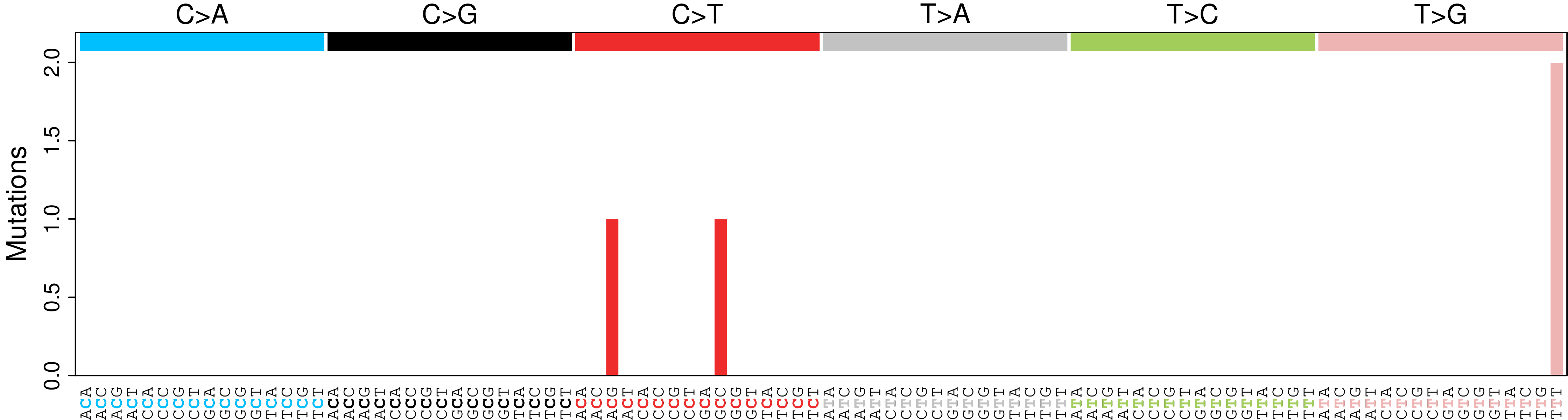
CATD0130a (3 mutations)



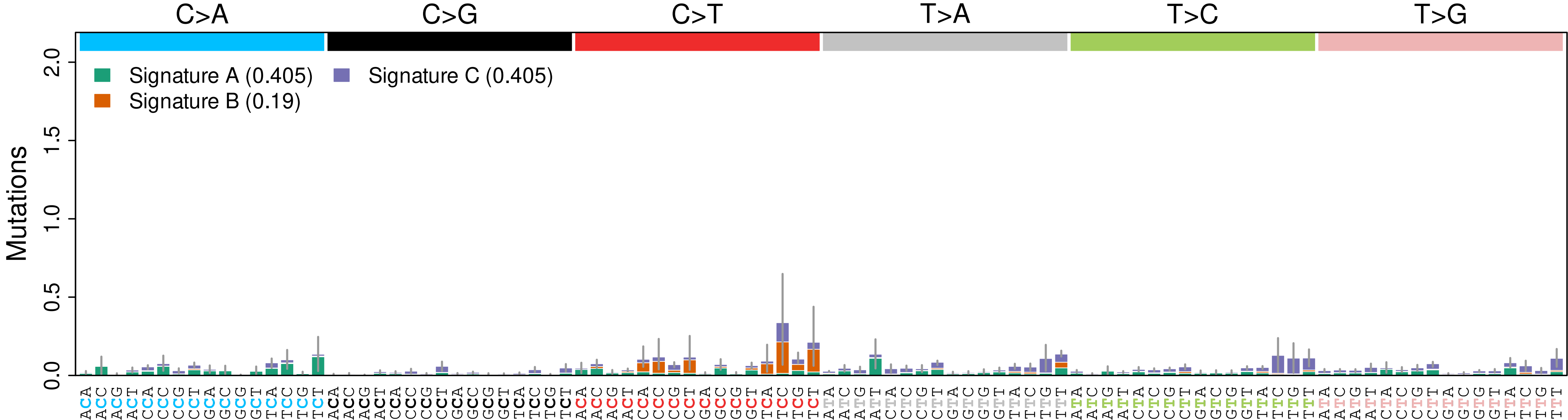
Reconstructed spectrum (cosine similarity = 0.138)



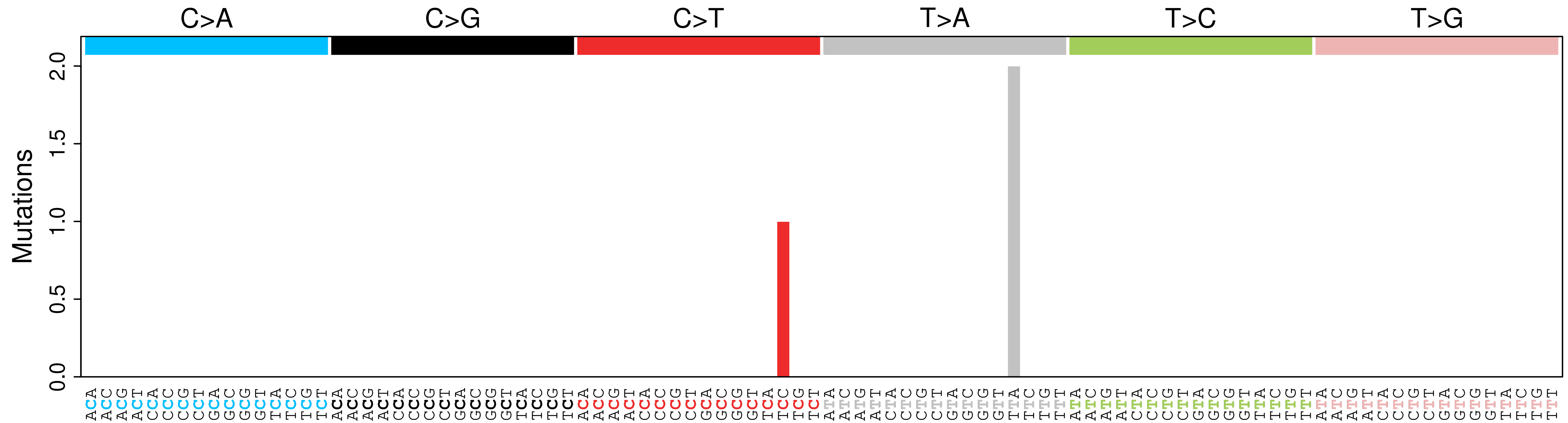
CATD0140a (4 mutations)



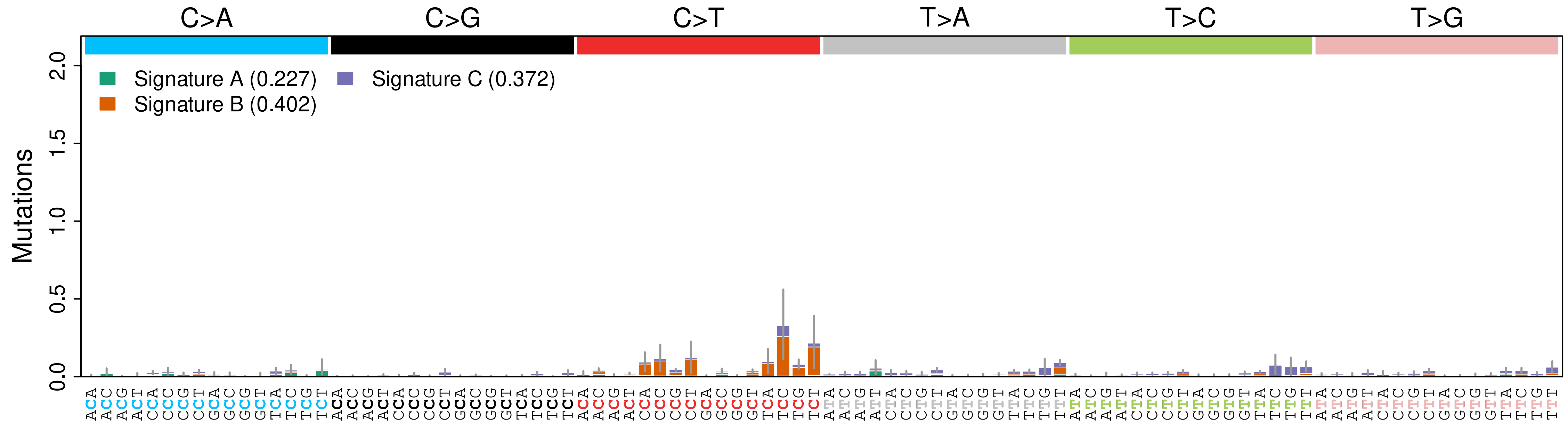
Reconstructed spectrum (cosine similarity = 0.183)



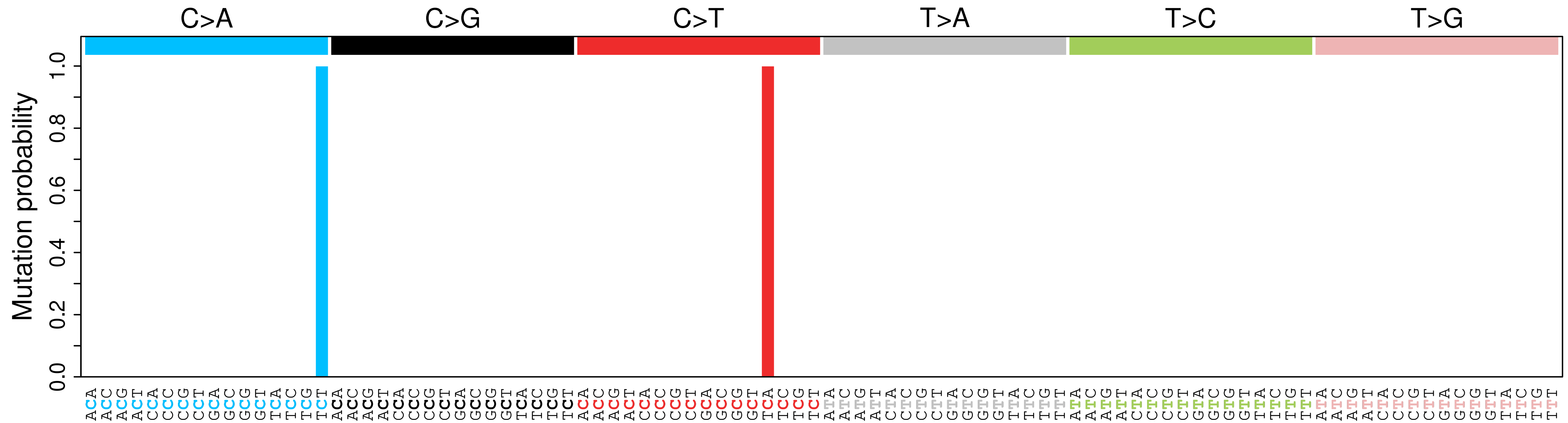
CATD0125a (3 mutations)



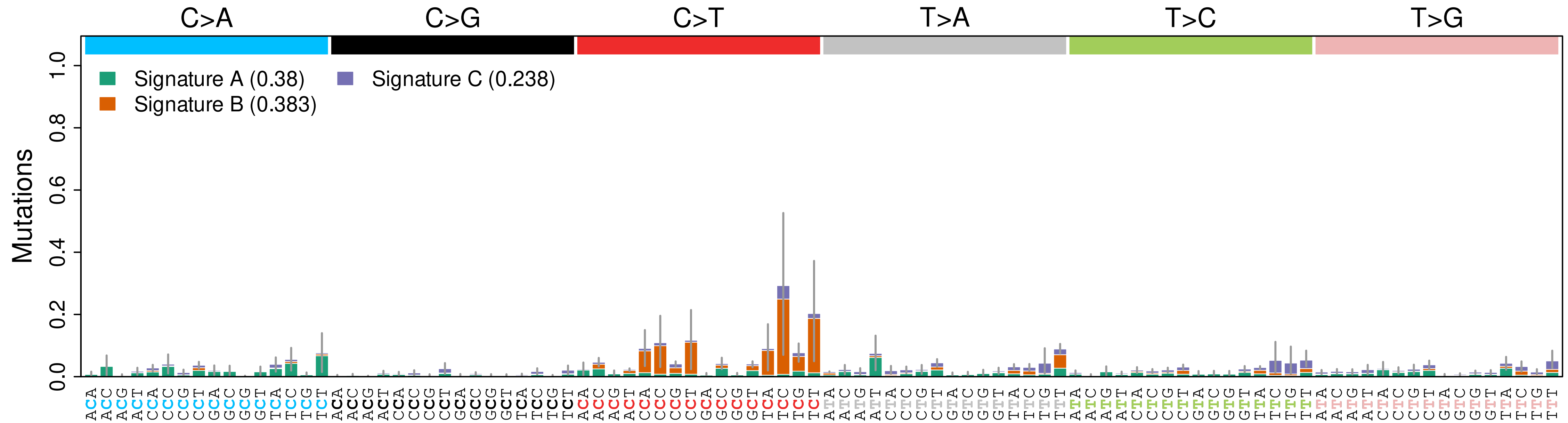
Reconstructed spectrum (cosine similarity = 0.337)



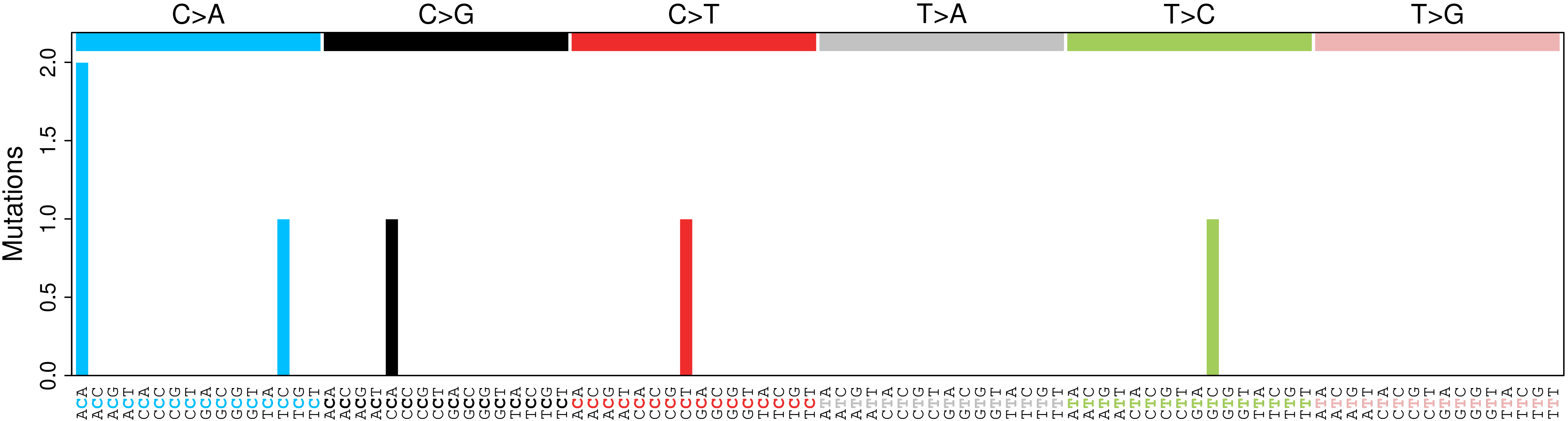
CATD0134a



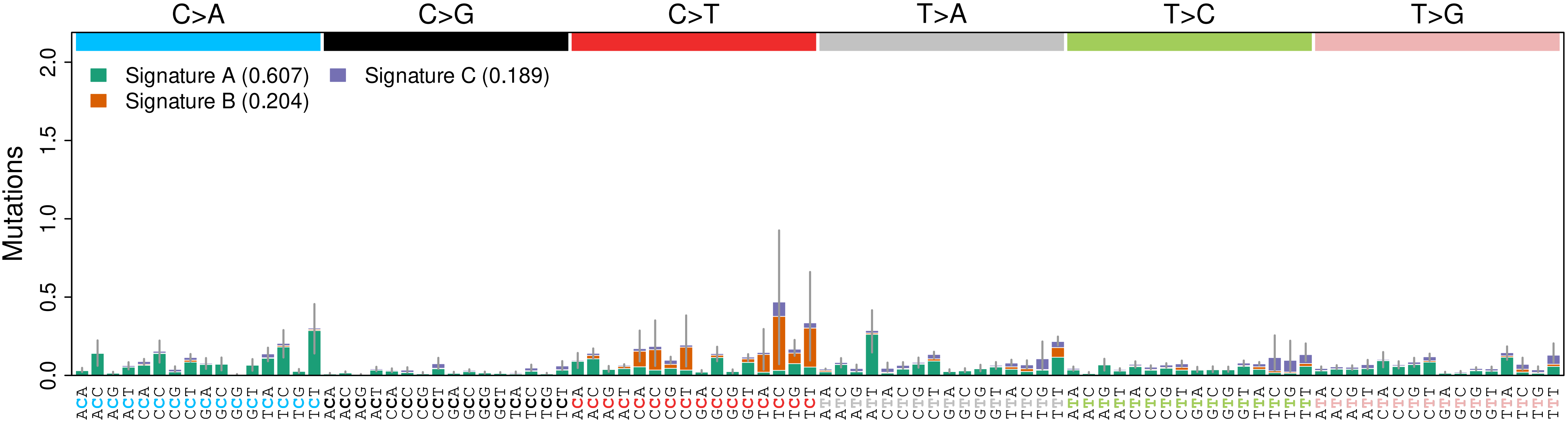
Reconstructed spectrum (cosine similarity = 0.237)



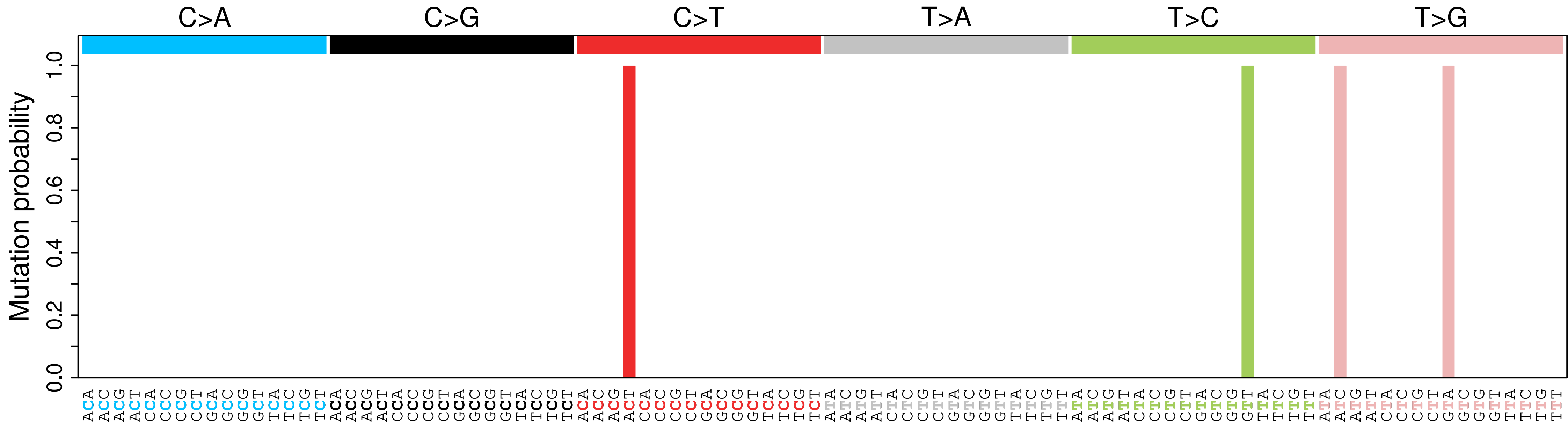
CATD258a (6 mutations)



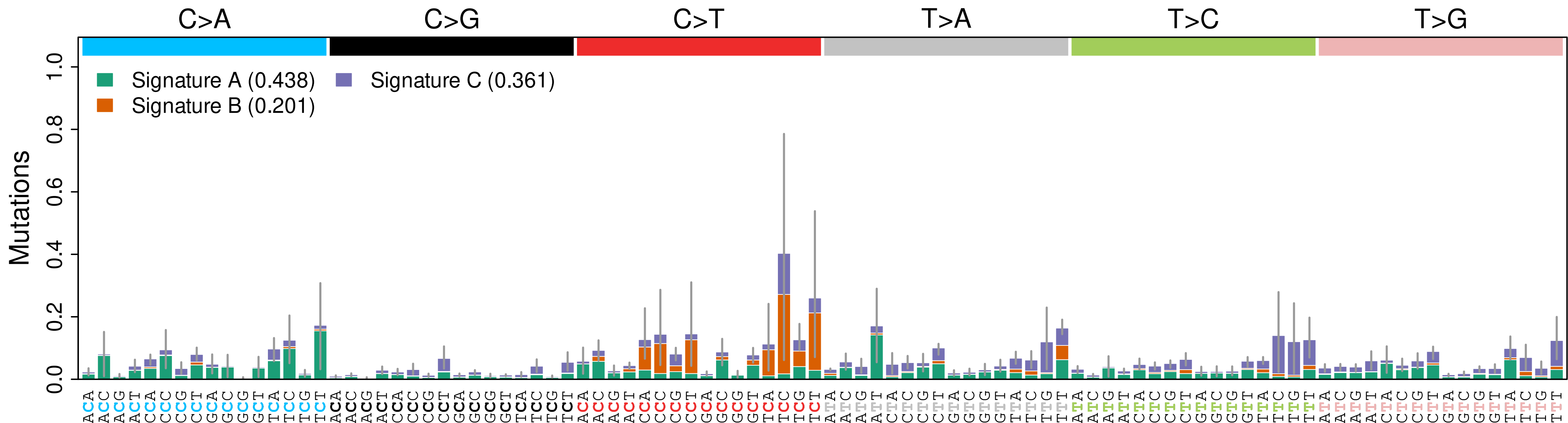
Reconstructed spectrum (cosine similarity = 0.175)



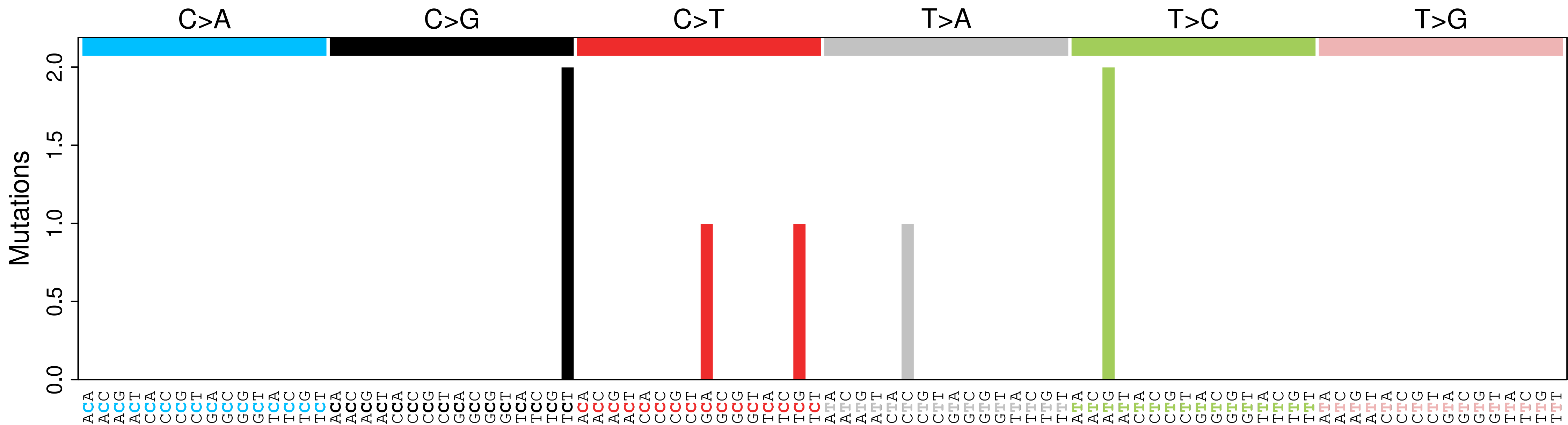
CATD257a



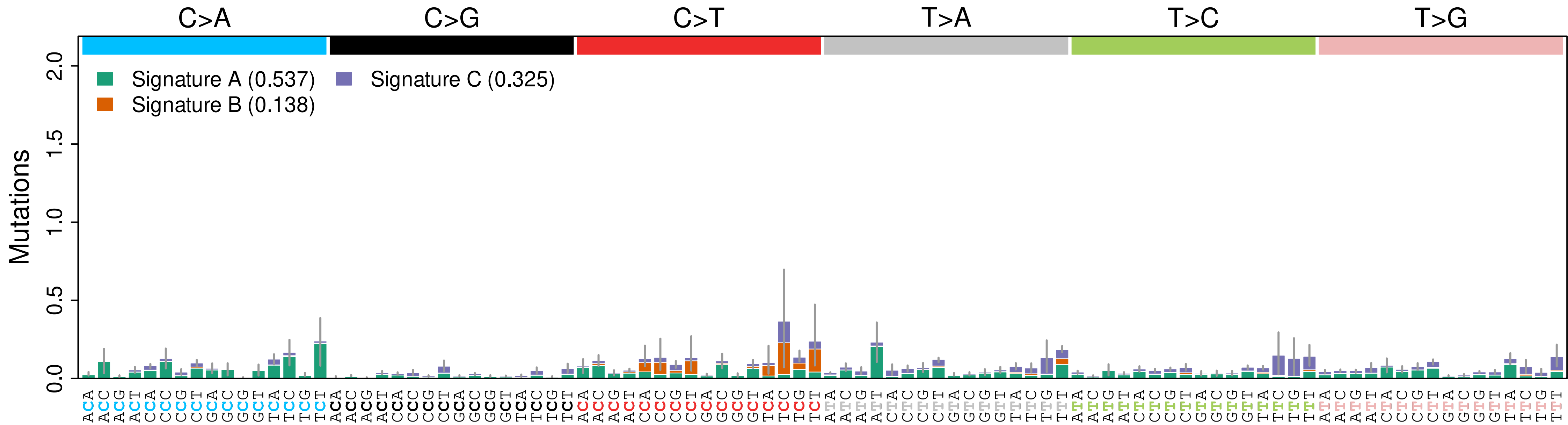
Reconstructed spectrum (cosine similarity = 0.094)



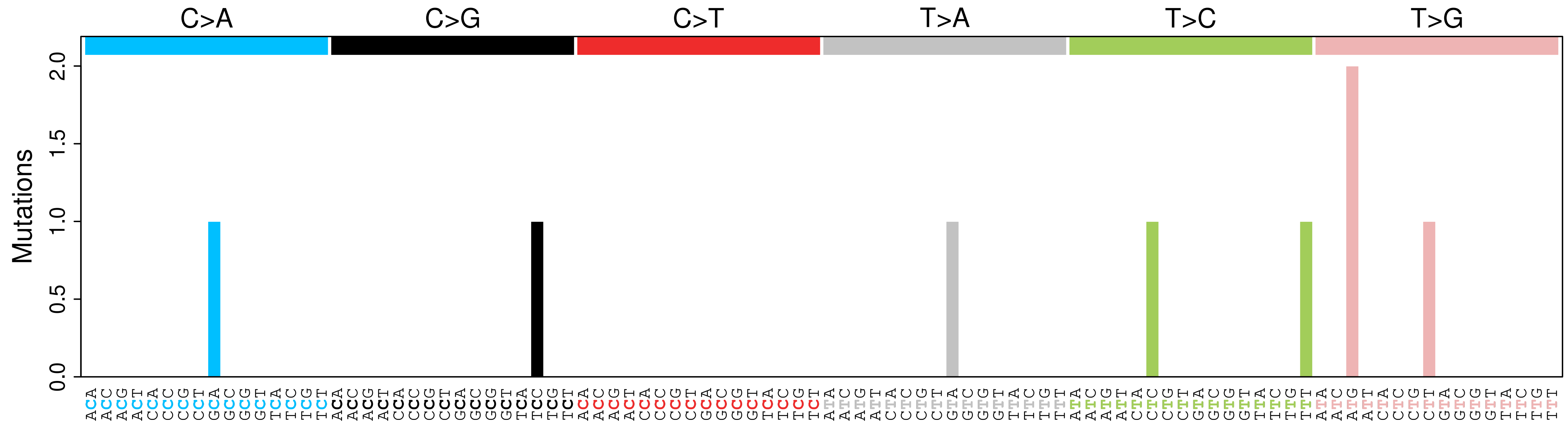
CATD0139a (7 mutations)



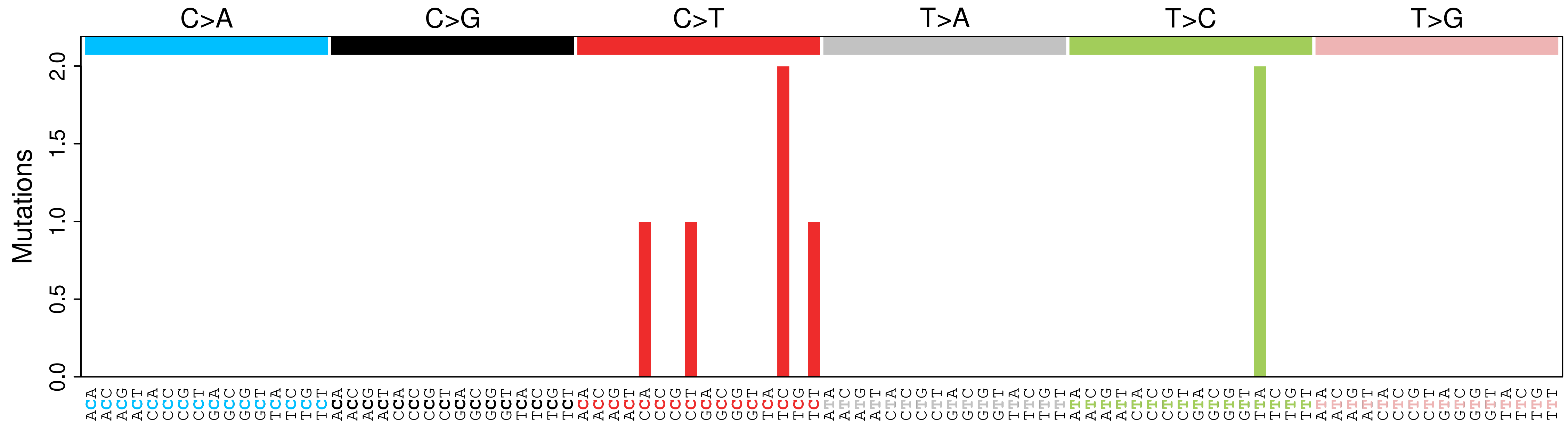
Reconstructed spectrum (cosine similarity = 0.152)



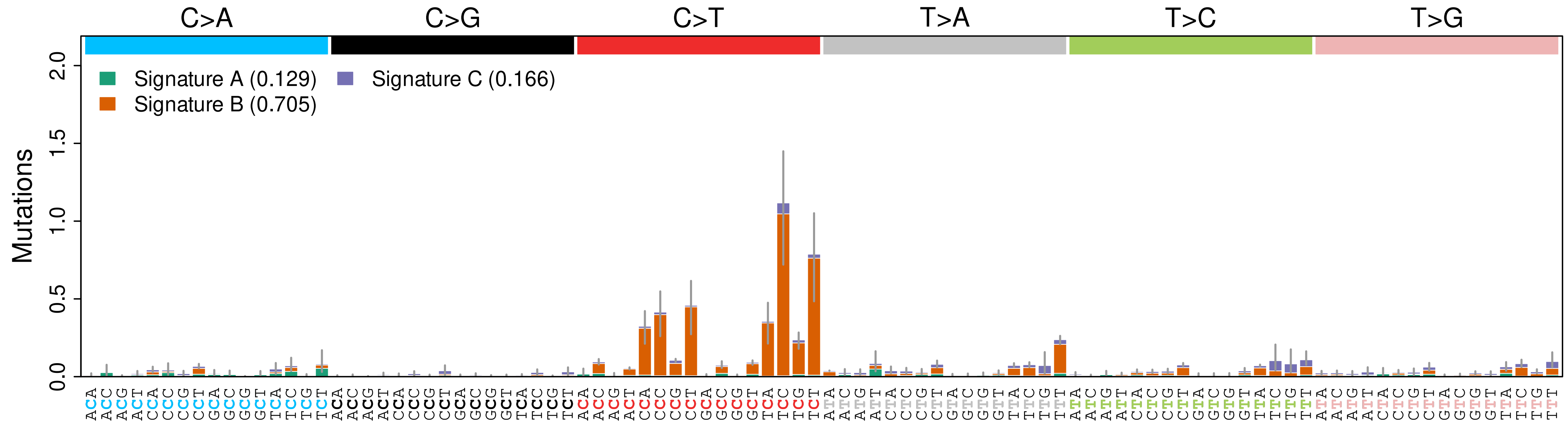
CATD0137a (8 mutations)



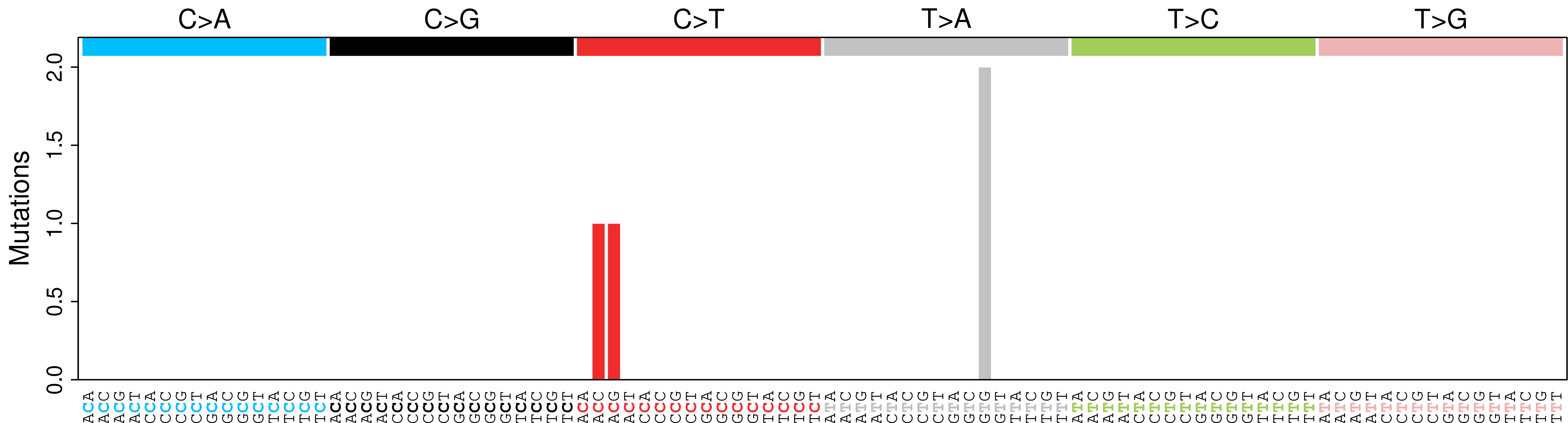
CATD249a (7 mutations)



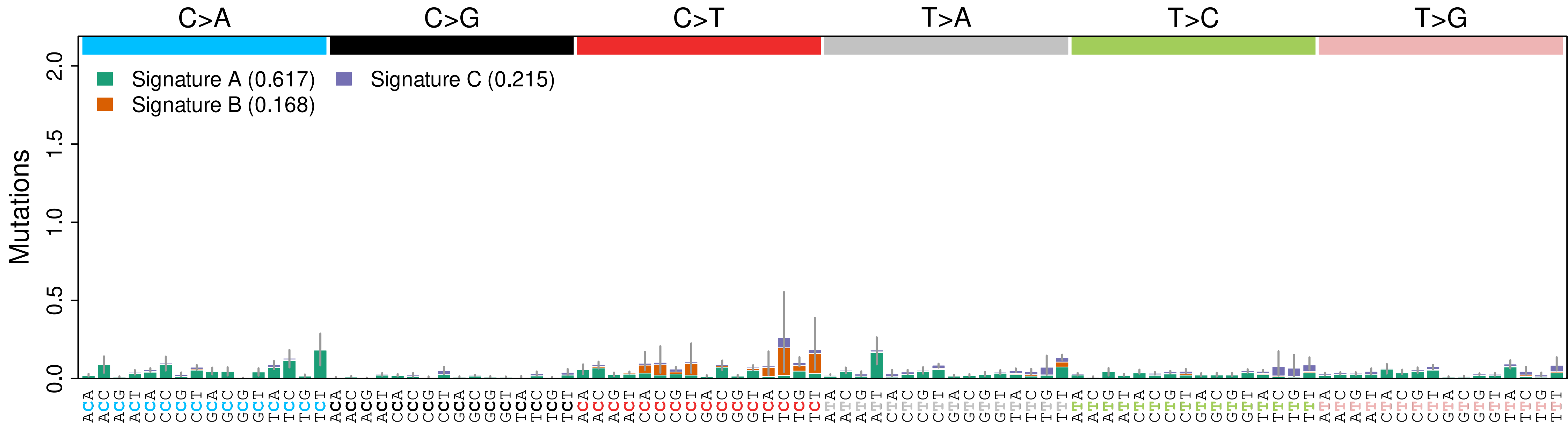
Reconstructed spectrum (cosine similarity = 0.714)



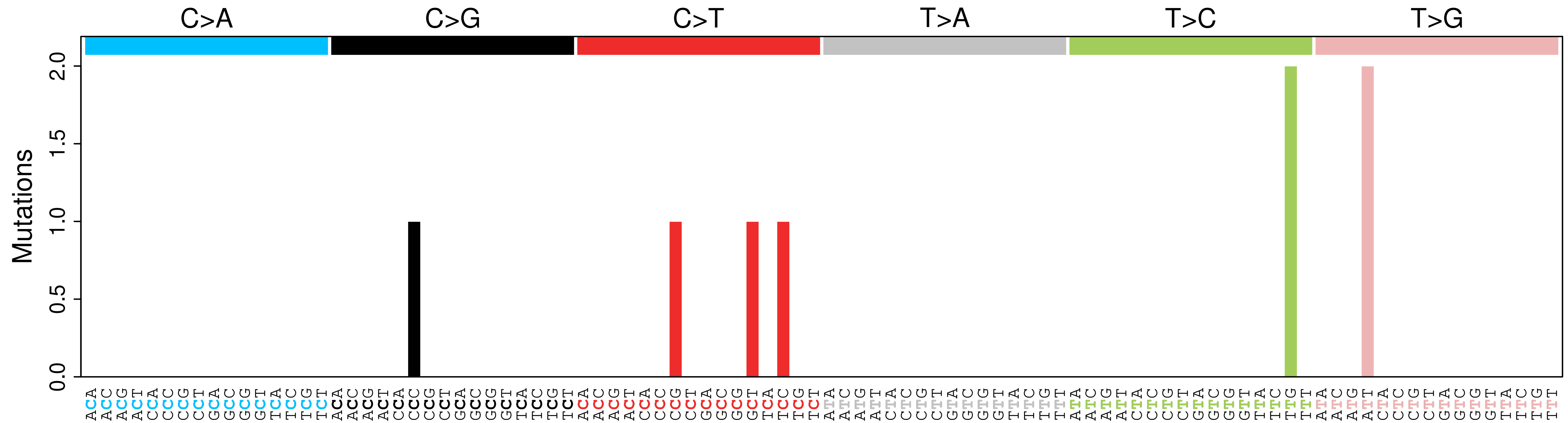
CATD271a (4 mutations)



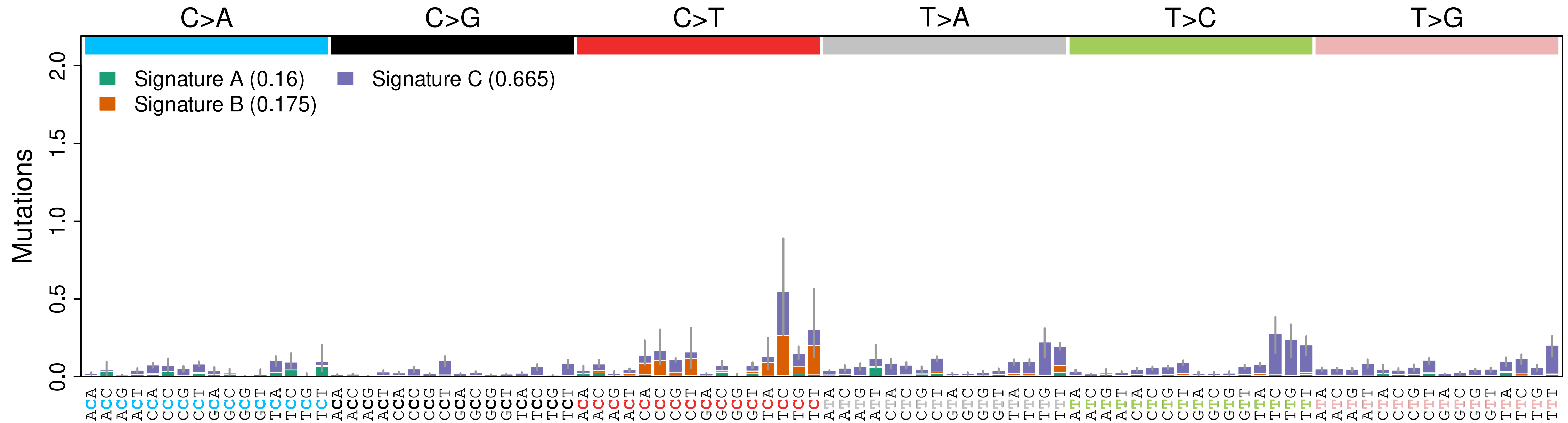
Reconstructed spectrum (cosine similarity = 0.108)



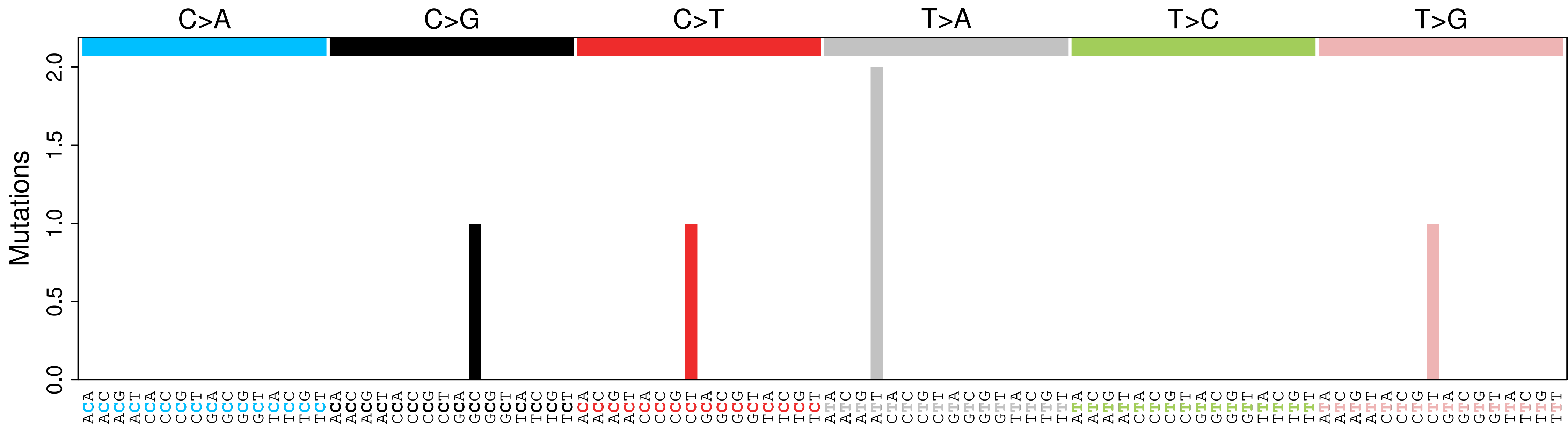
CATD259a (8 mutations)



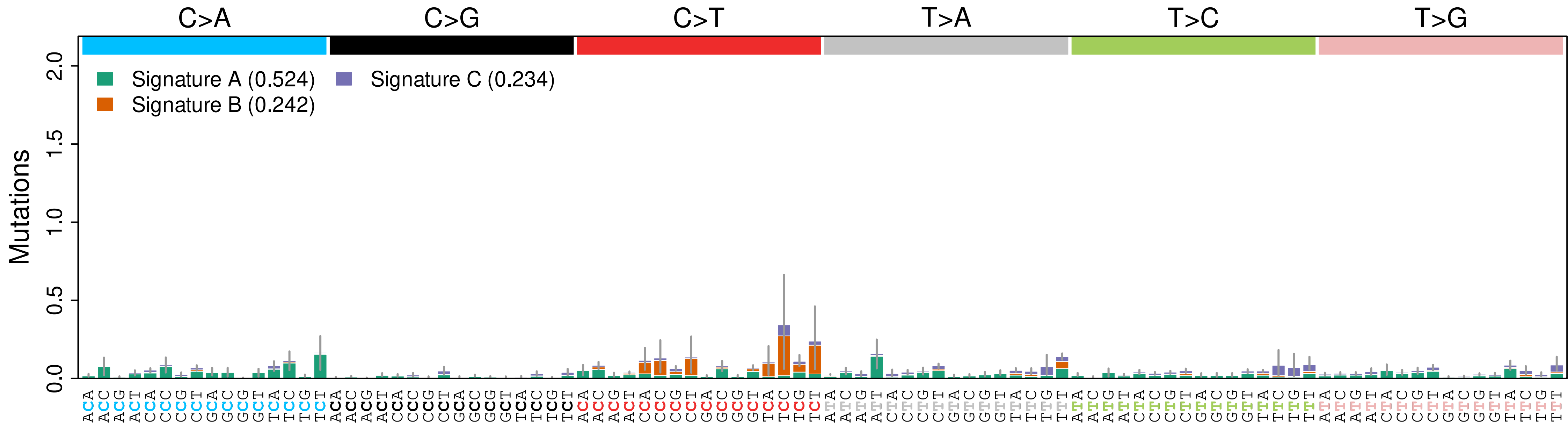
Reconstructed spectrum (cosine similarity = 0.395)



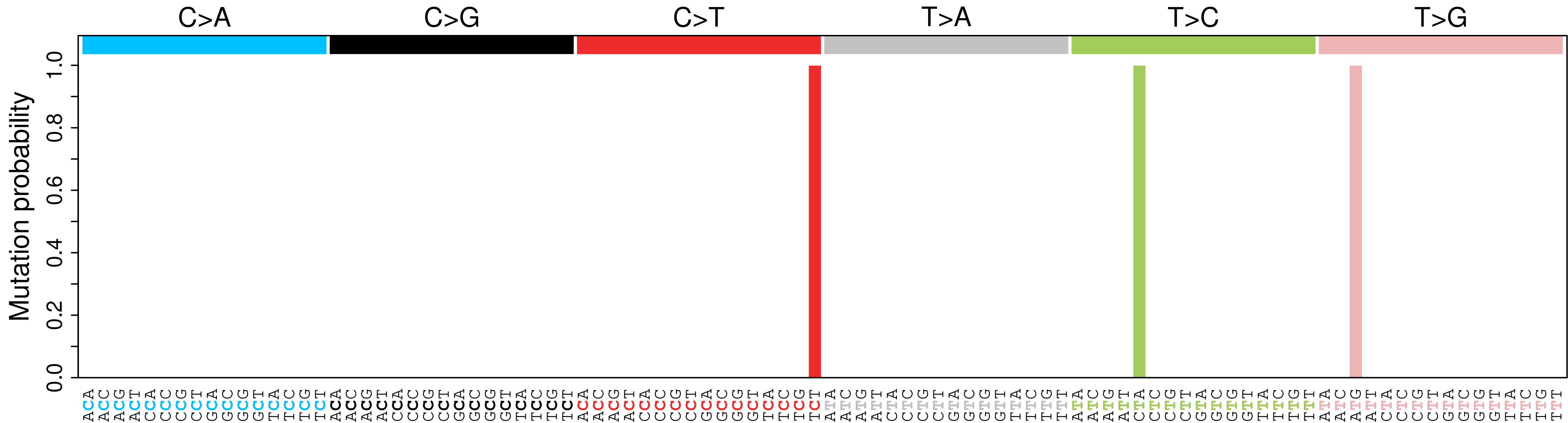
CATD0127a (5 mutations)



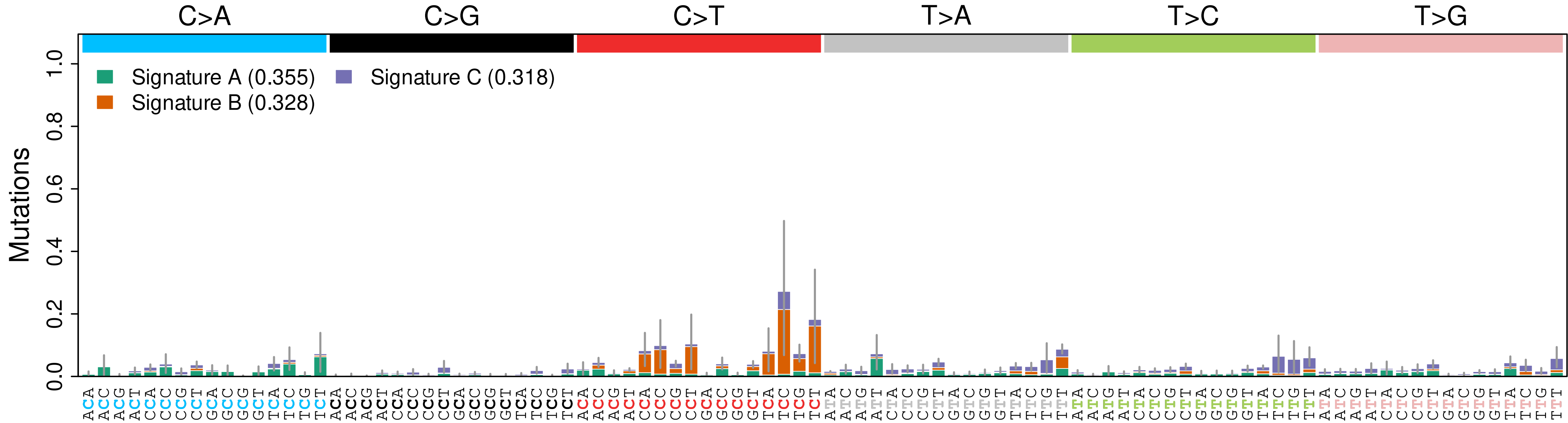
Reconstructed spectrum (cosine similarity = 0.292)



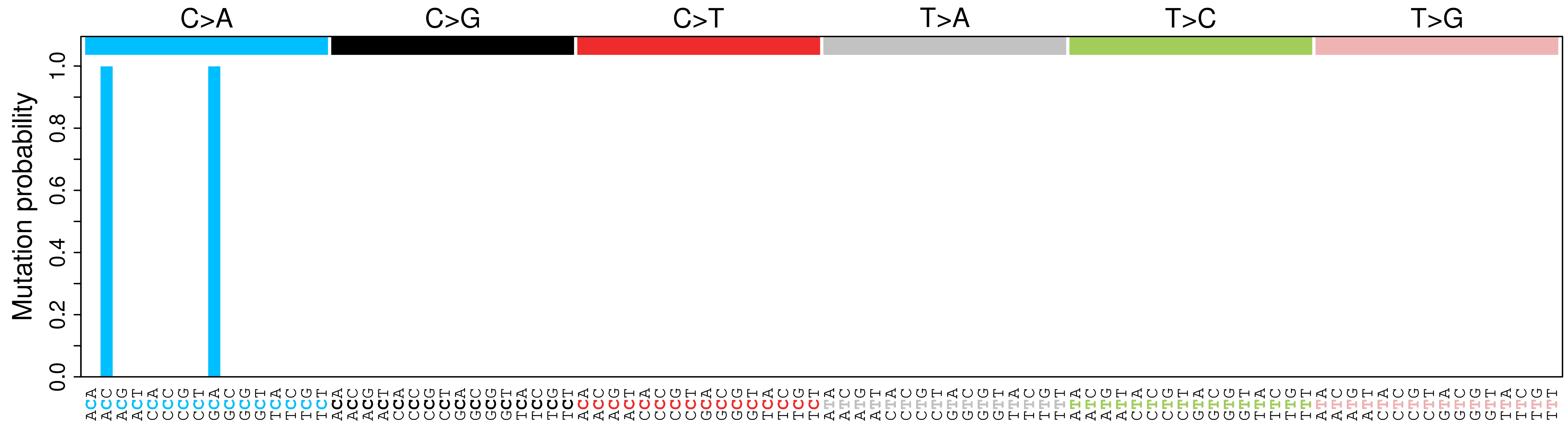
CATD277a



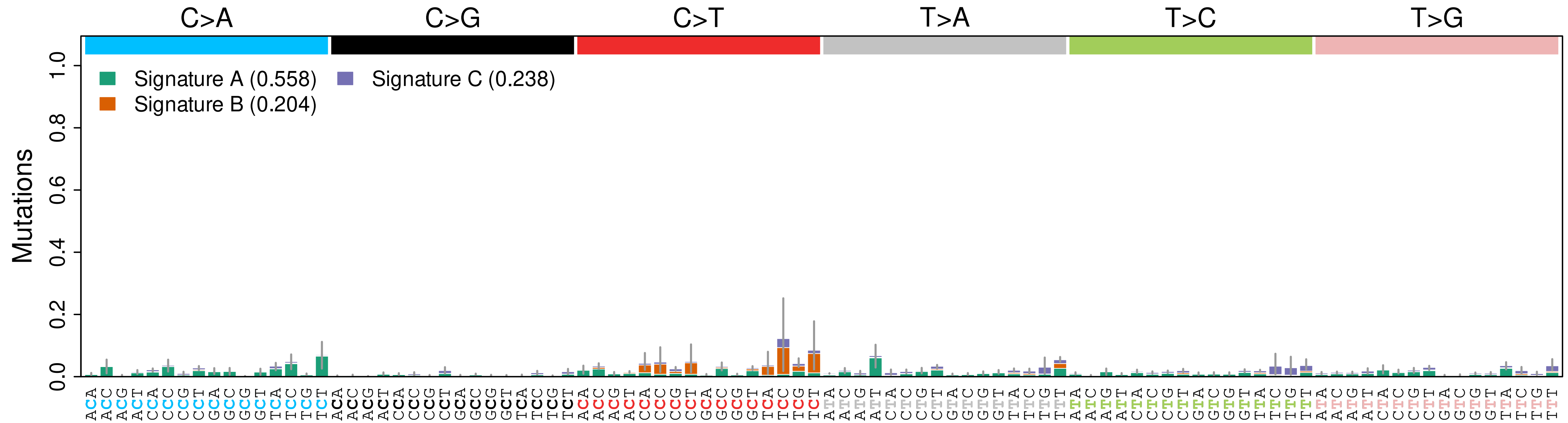
Reconstructed spectrum (cosine similarity = 0.268)



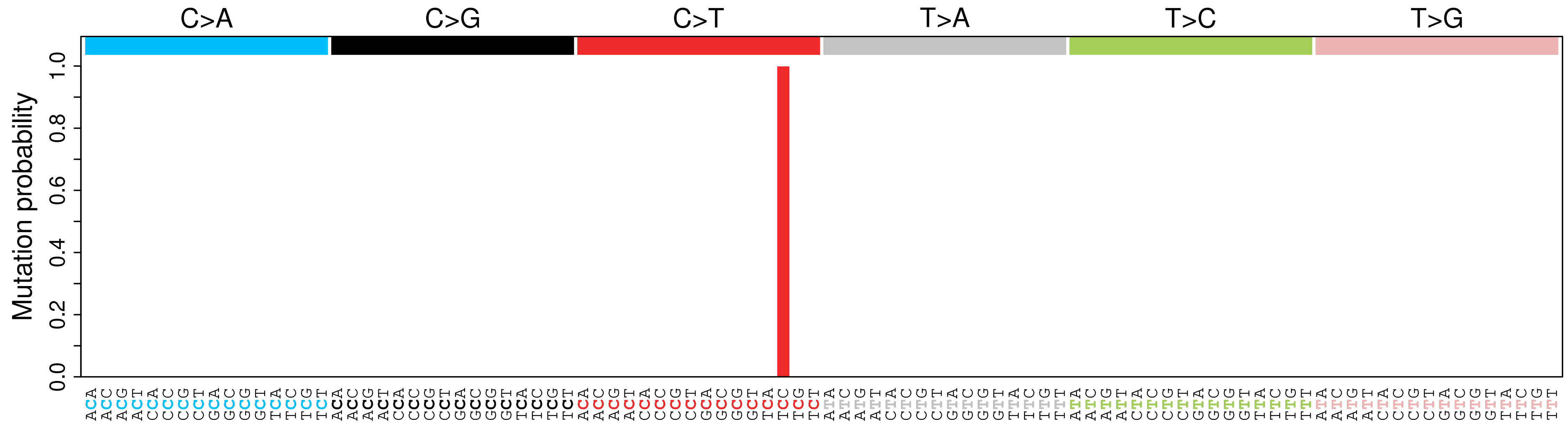
CATD281a



Reconstructed spectrum (cosine similarity = 0.134)



CATD0133a



Reconstructed spectrum (cosine similarity = 0.626)

