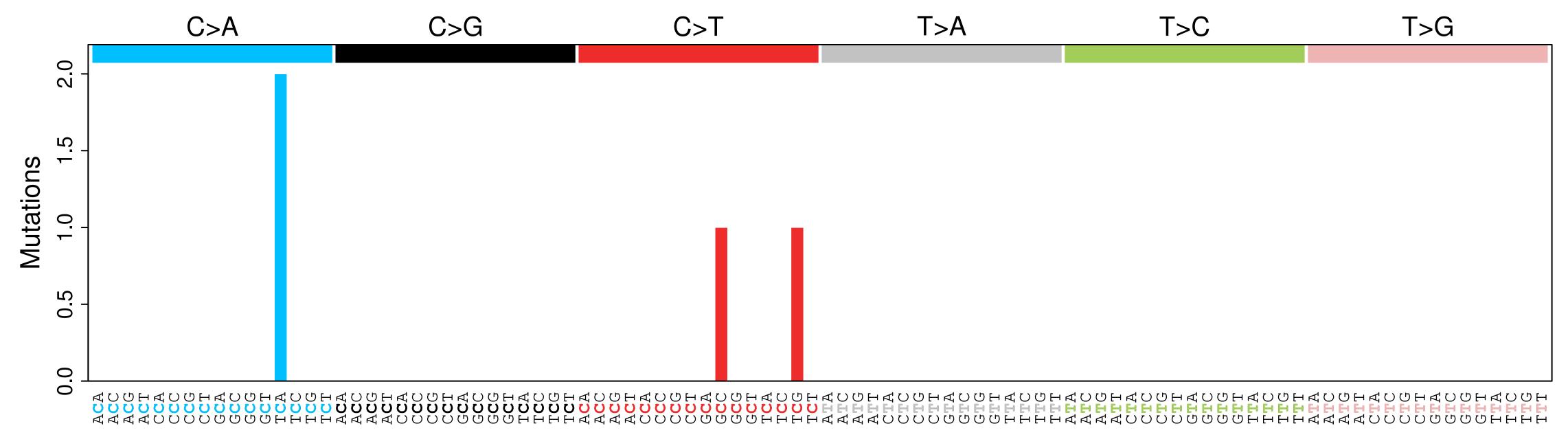
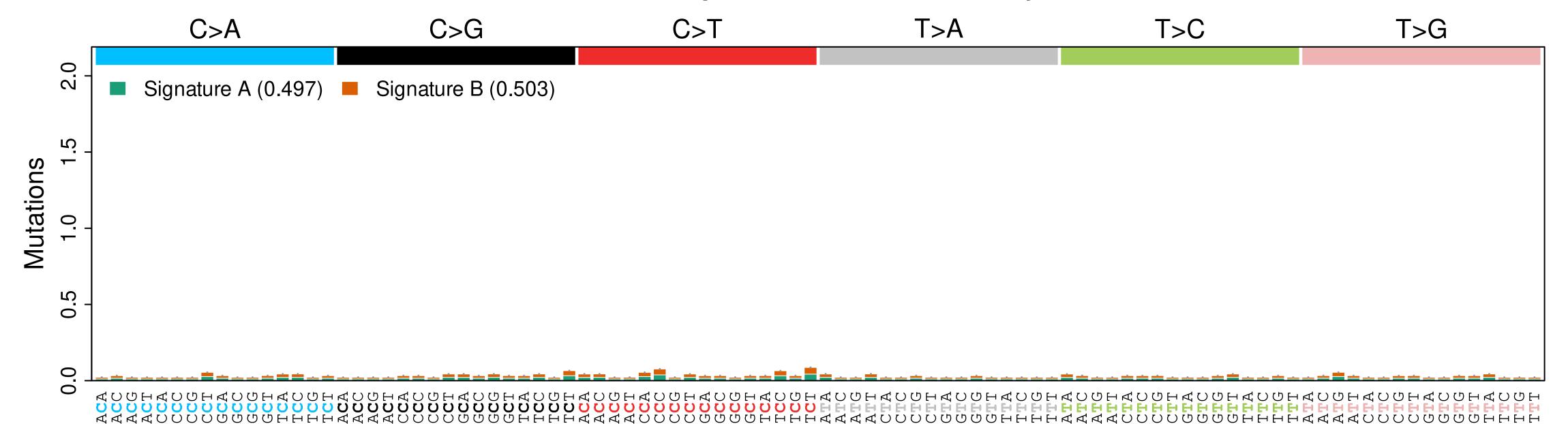
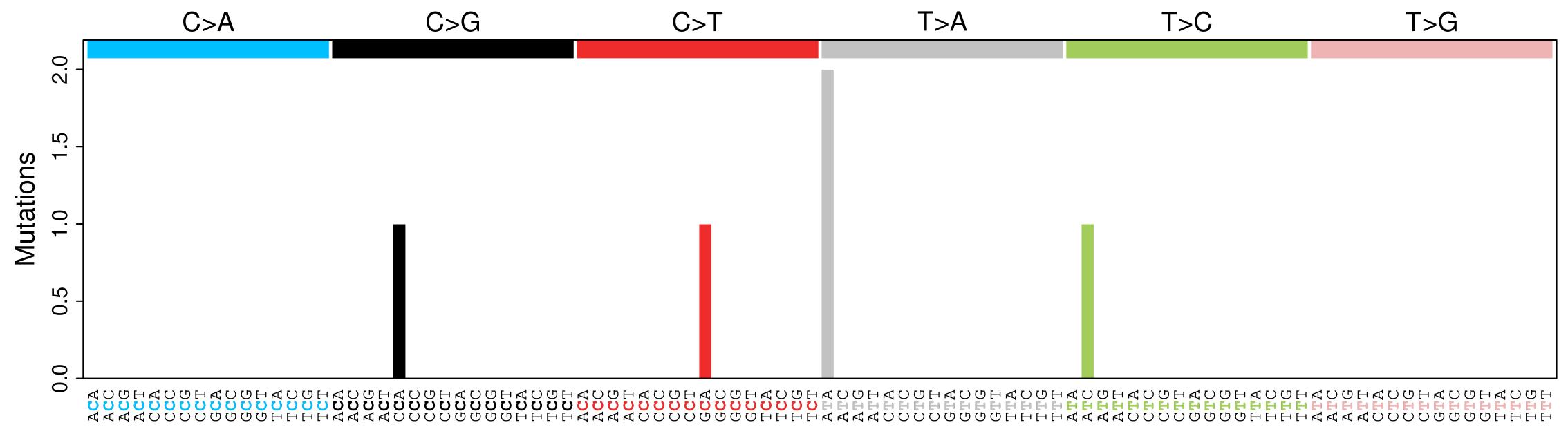
CATD0511a (4 mutations)



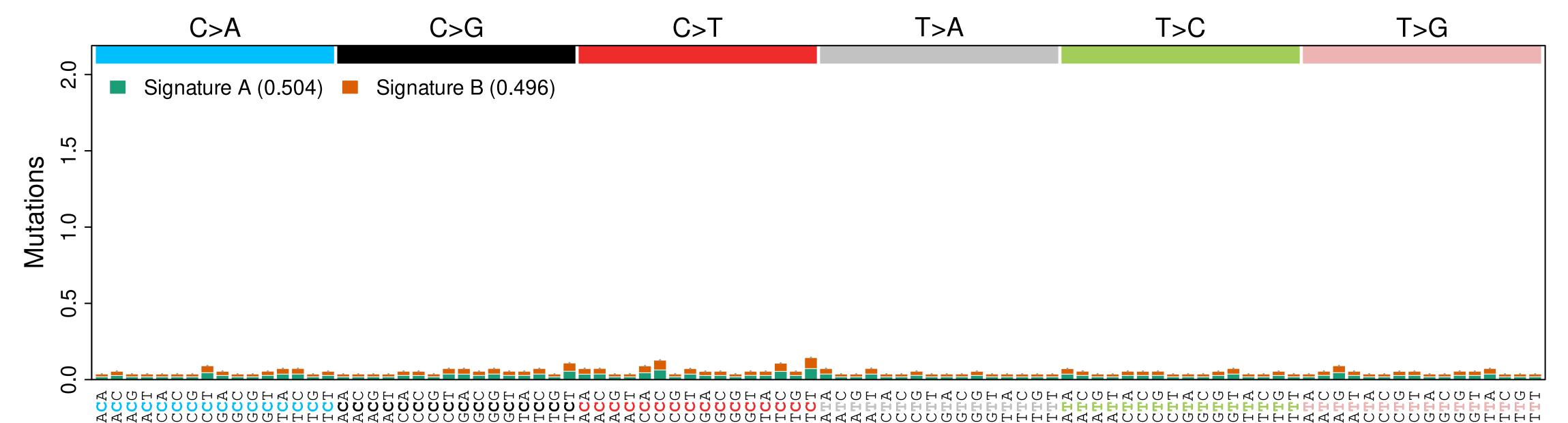
Reconstructed spectrum (cosine similarity = 0.188)



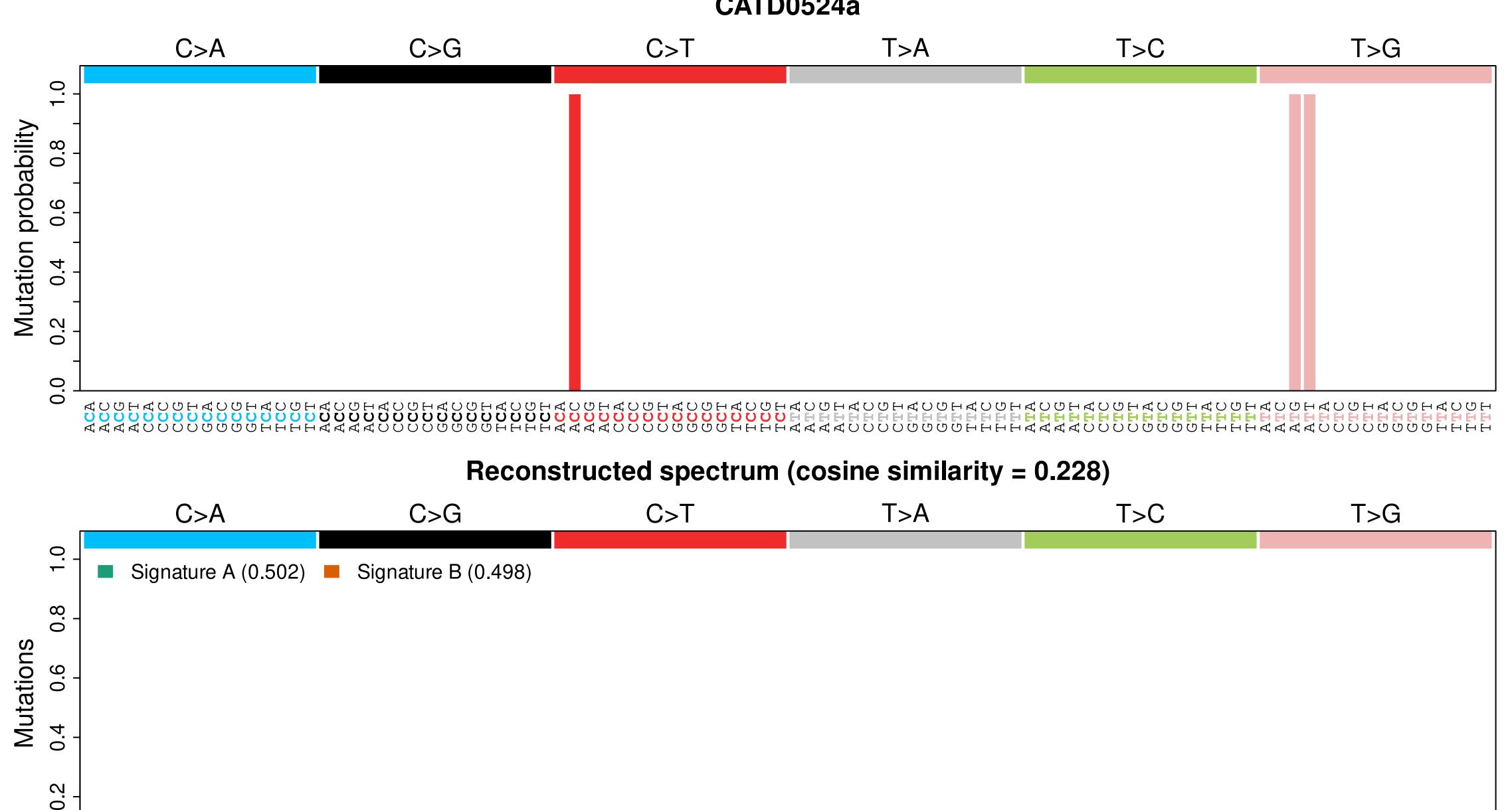
CATD0518a (5 mutations)



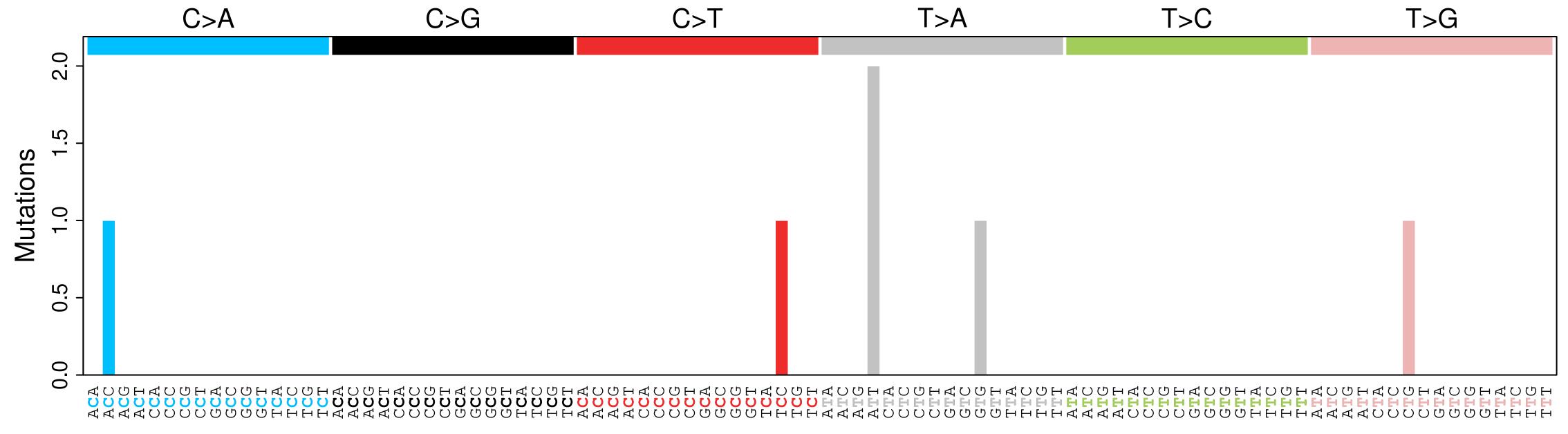
Reconstructed spectrum (cosine similarity = 0.211)



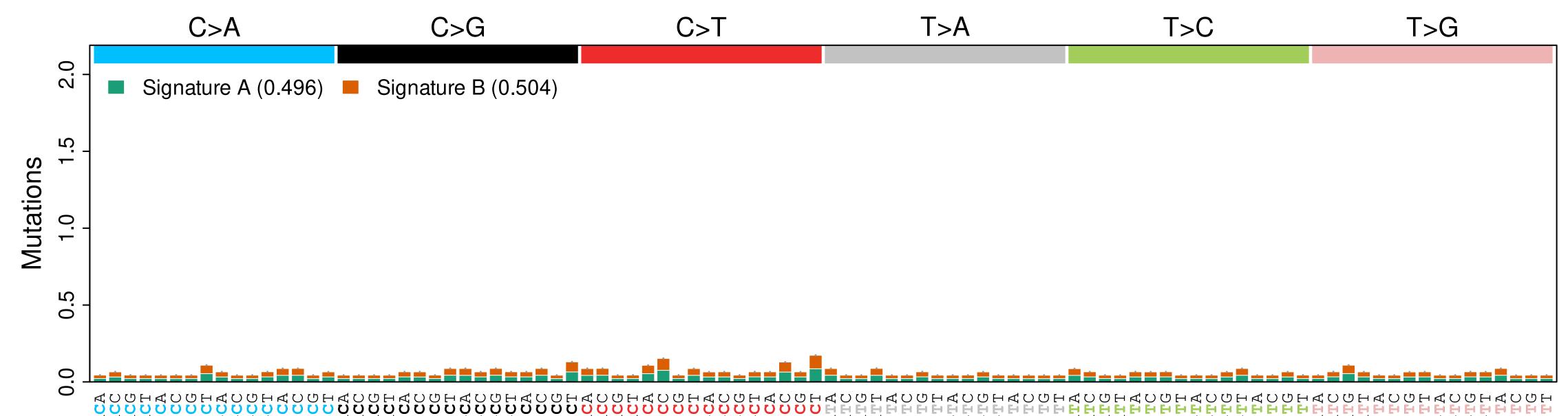




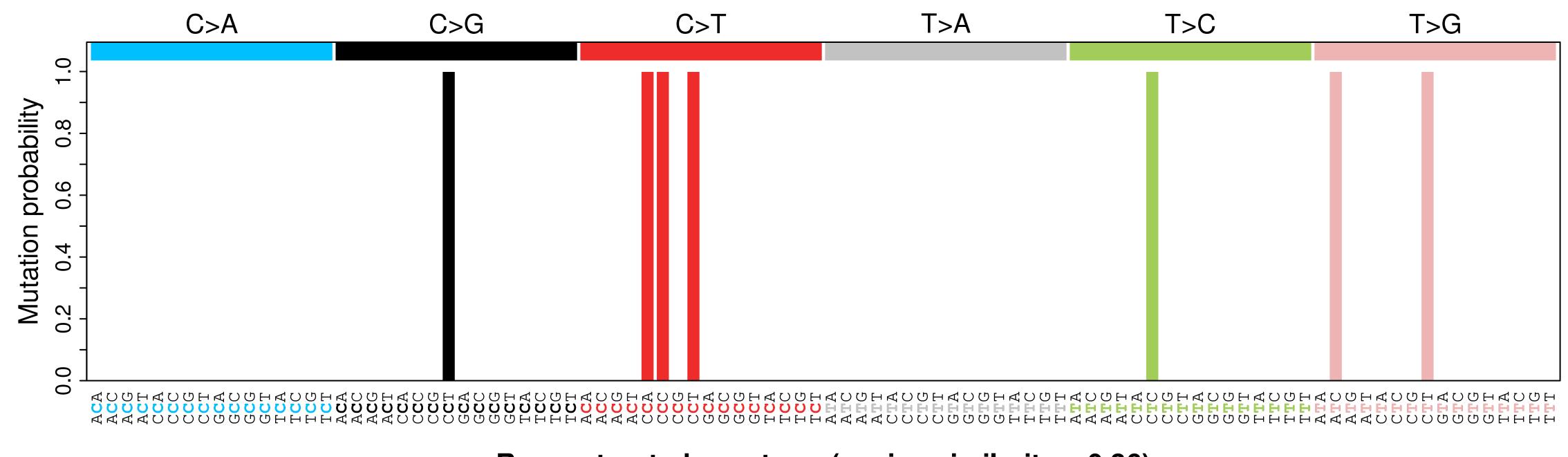
CATD0515a (6 mutations) C>A C>G C>T T>A

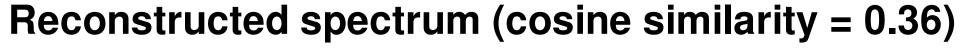


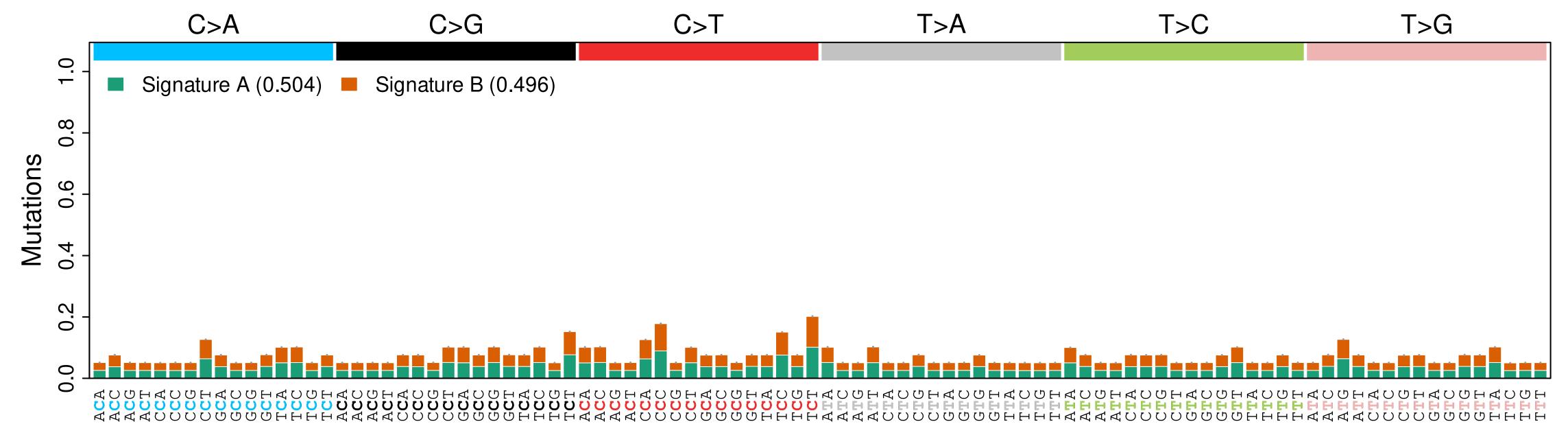




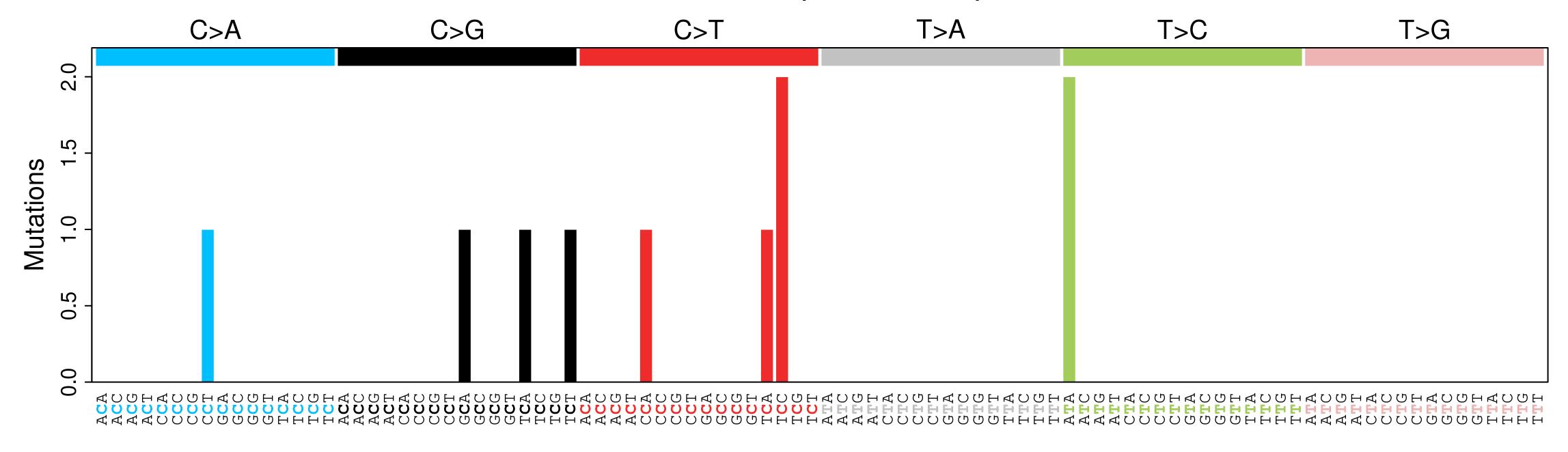
CATD196a



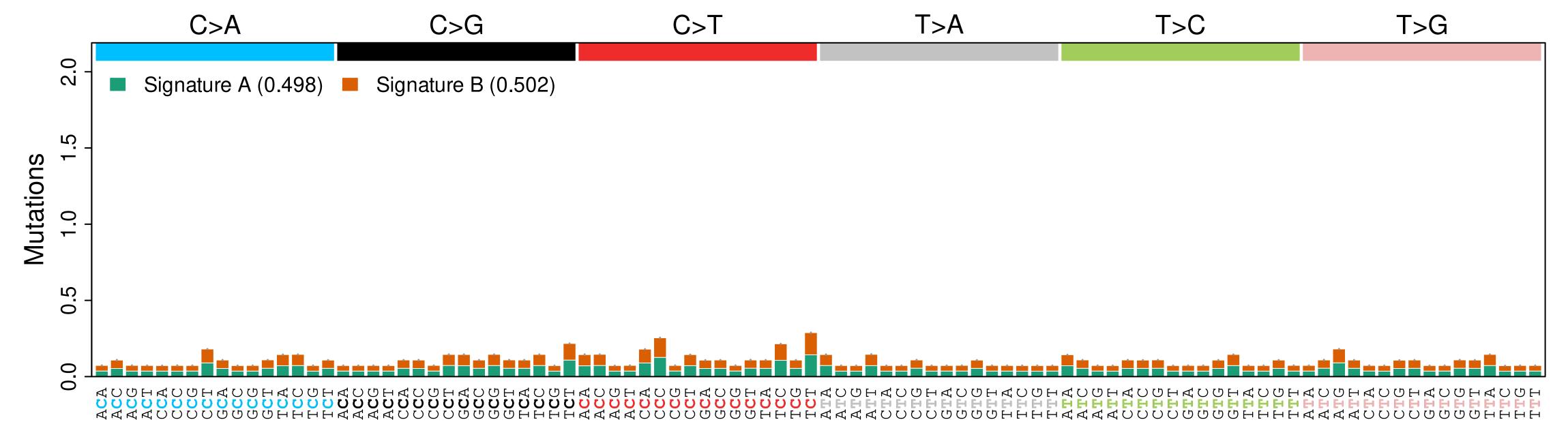




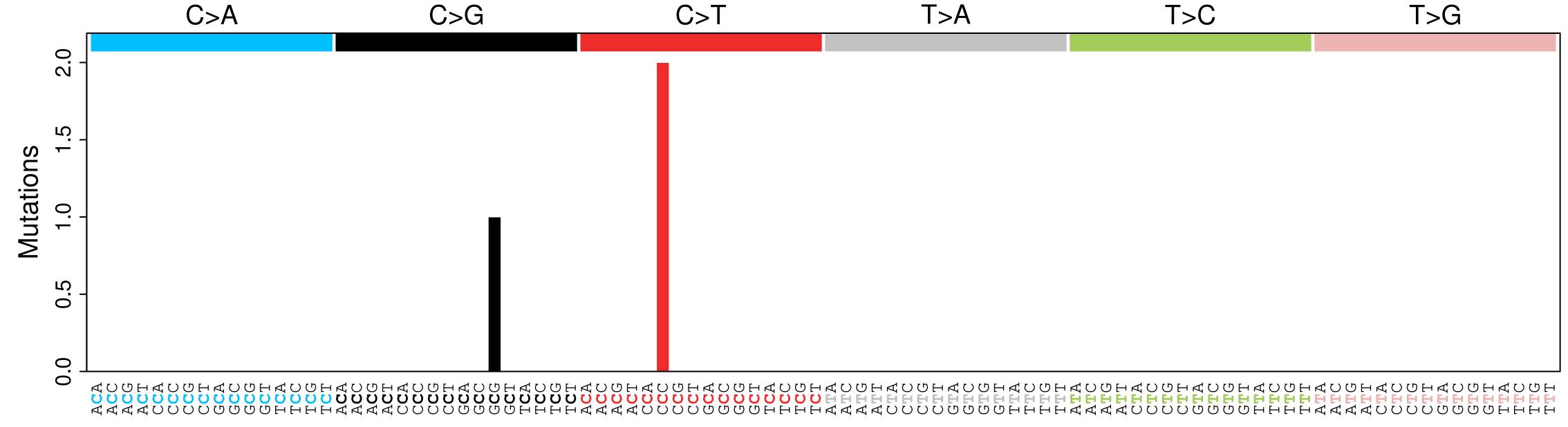
CATD205a (10 mutations)

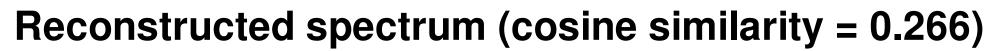


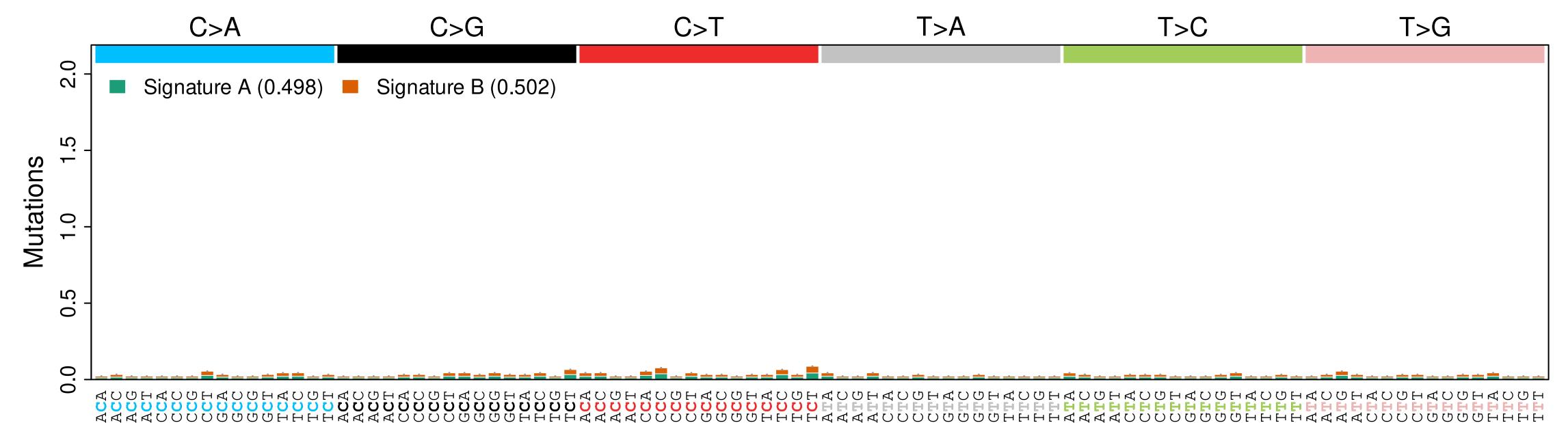
Reconstructed spectrum (cosine similarity = 0.402)



CATD193a (3 mutations) C>A C>G C>T T>A 2.0

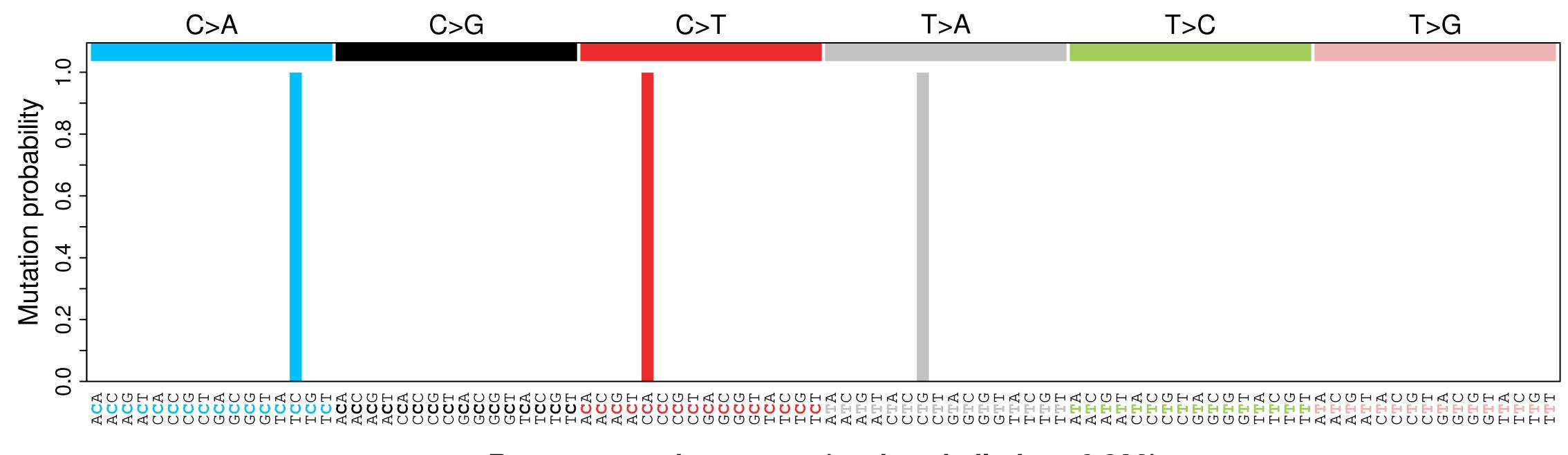


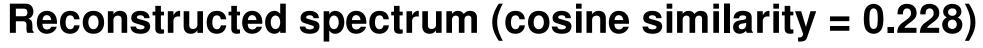


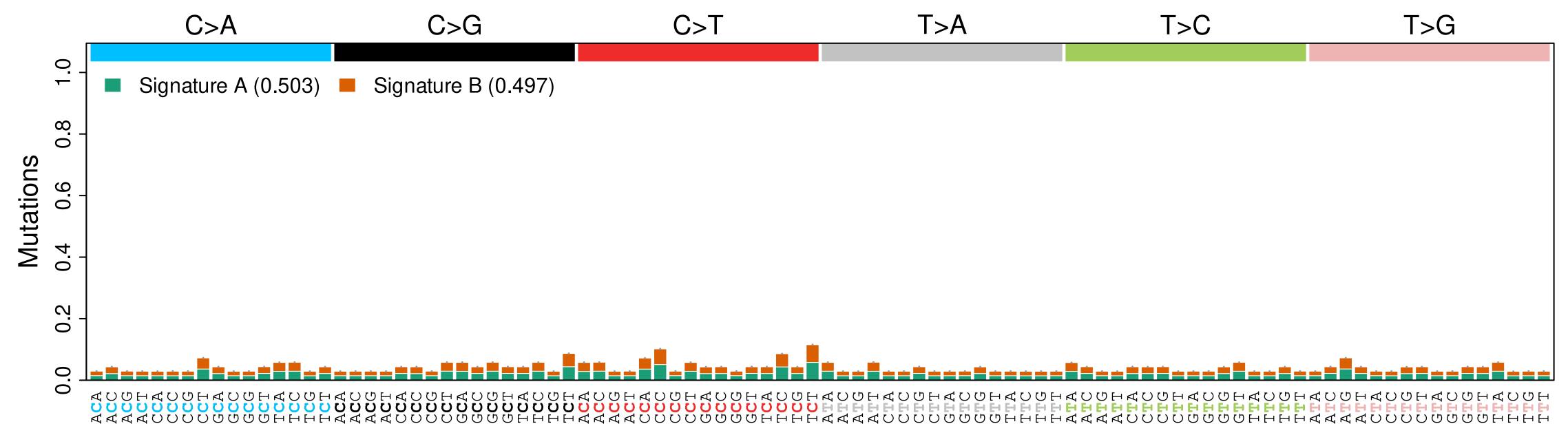


CATD192a C>G T>C T>G C>A C>T T>A 1.0 Mutation probability 0.8 9.0 0.4 0.2 0.0 **Reconstructed spectrum (cosine similarity = 0.163)** C>A T>G C>G T>A T>C C>T 1.0 Signature A (0.499) Signature B (0.501) 0.8 Mutations 9.0 \mathcal{O} 0

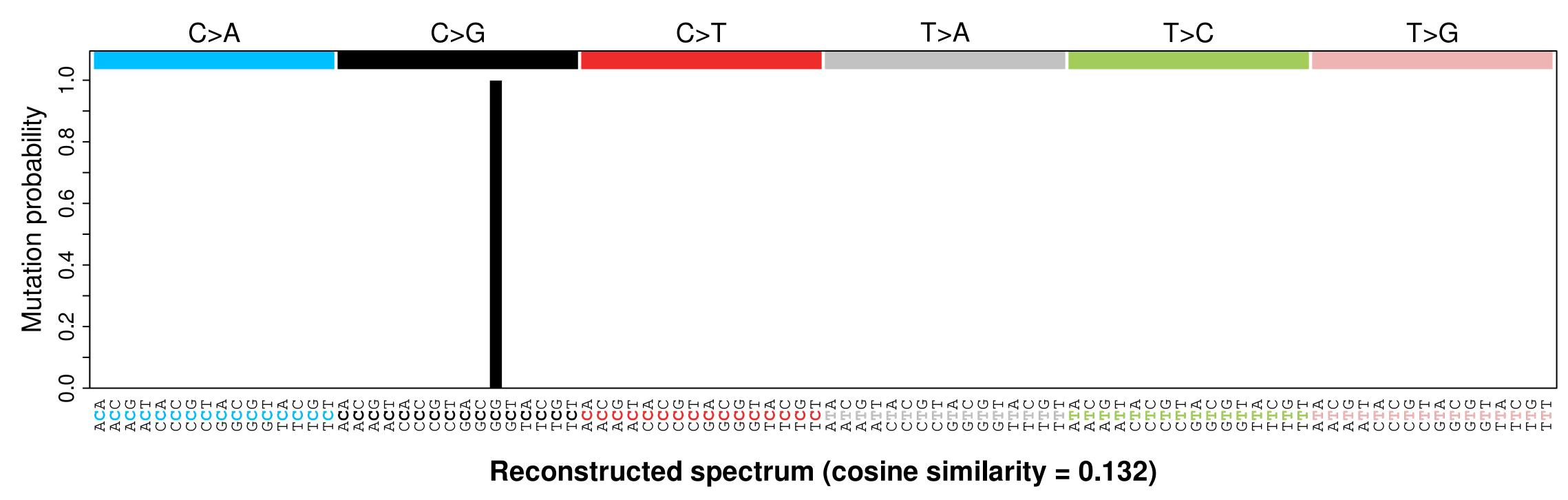


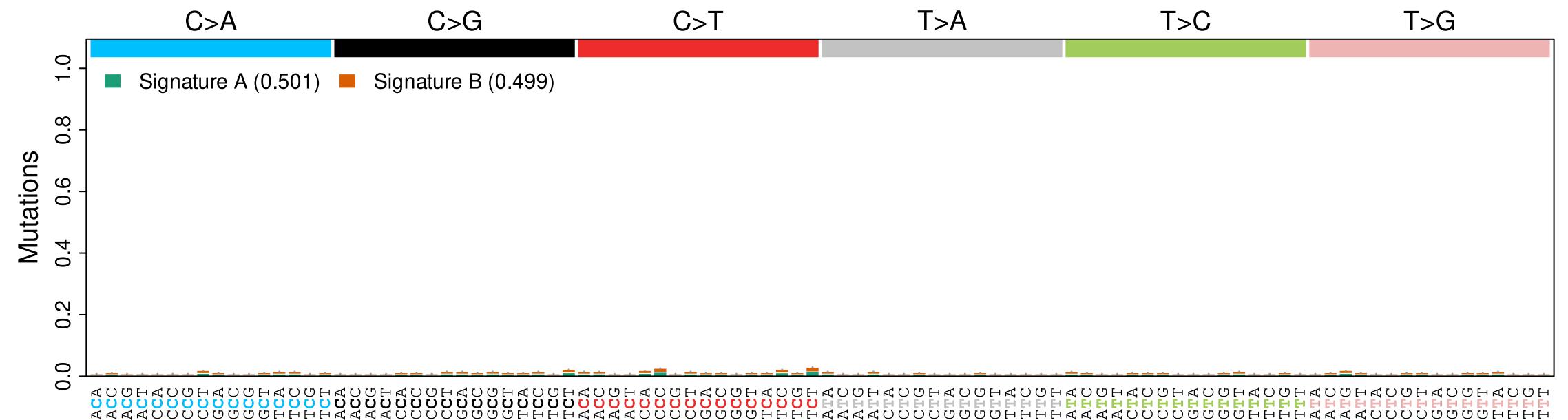




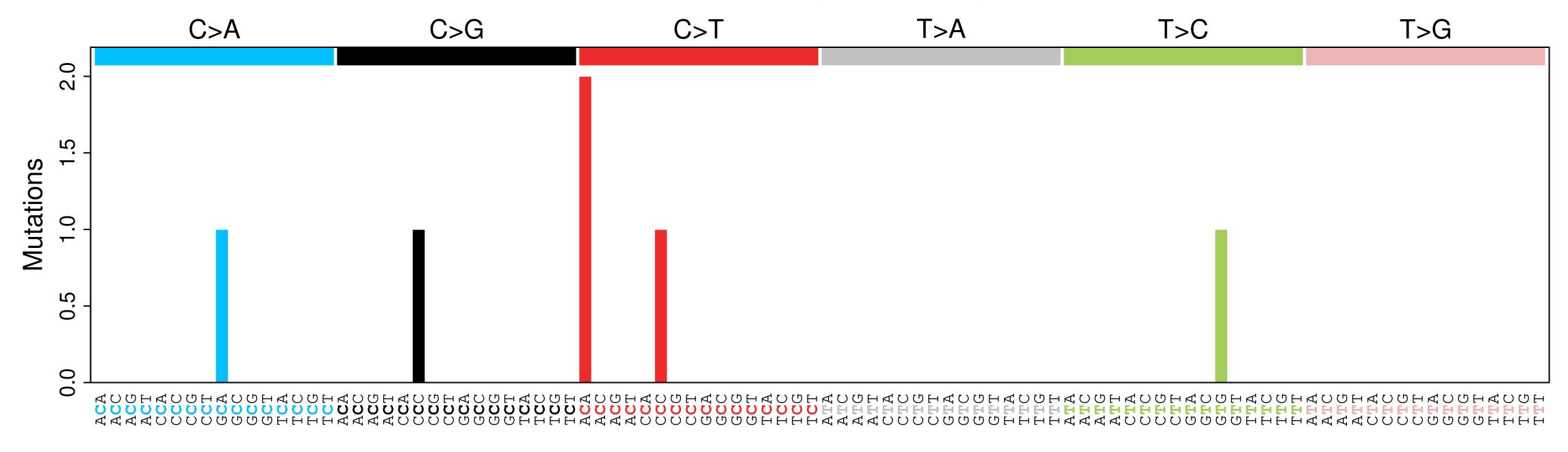




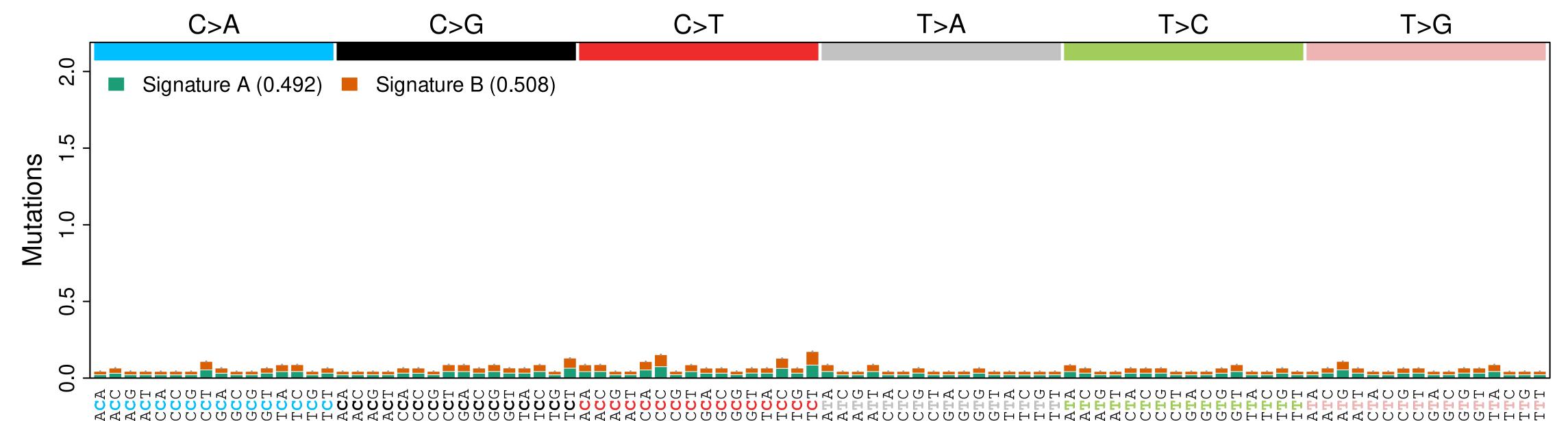




CATD0517a (6 mutations)



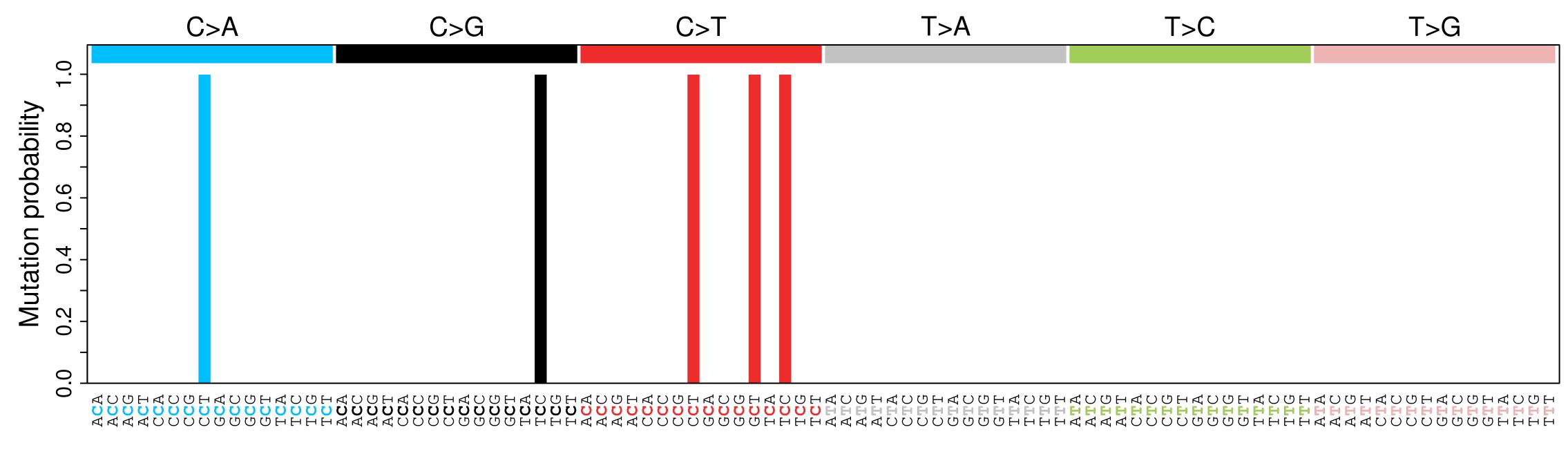
Reconstructed spectrum (cosine similarity = 0.279)

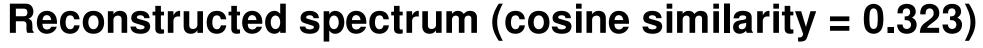


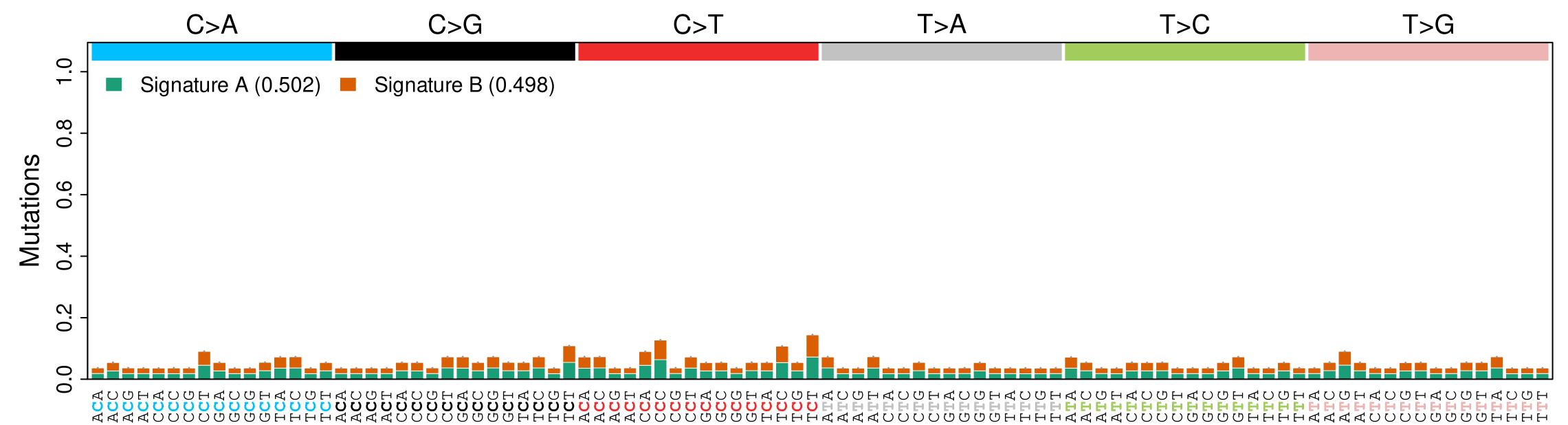
CATD210a C>A C>G T>C T>G C>T T>A 1.0 Mutation probability 0.8 0.2 0.0 **Reconstructed spectrum (cosine similarity = 0.325)** C>A C>G T>A T>C T>G C>T 1.0 Signature A (0.5) Signature B (0.5) 0.8 Mutations 9.0

0.2

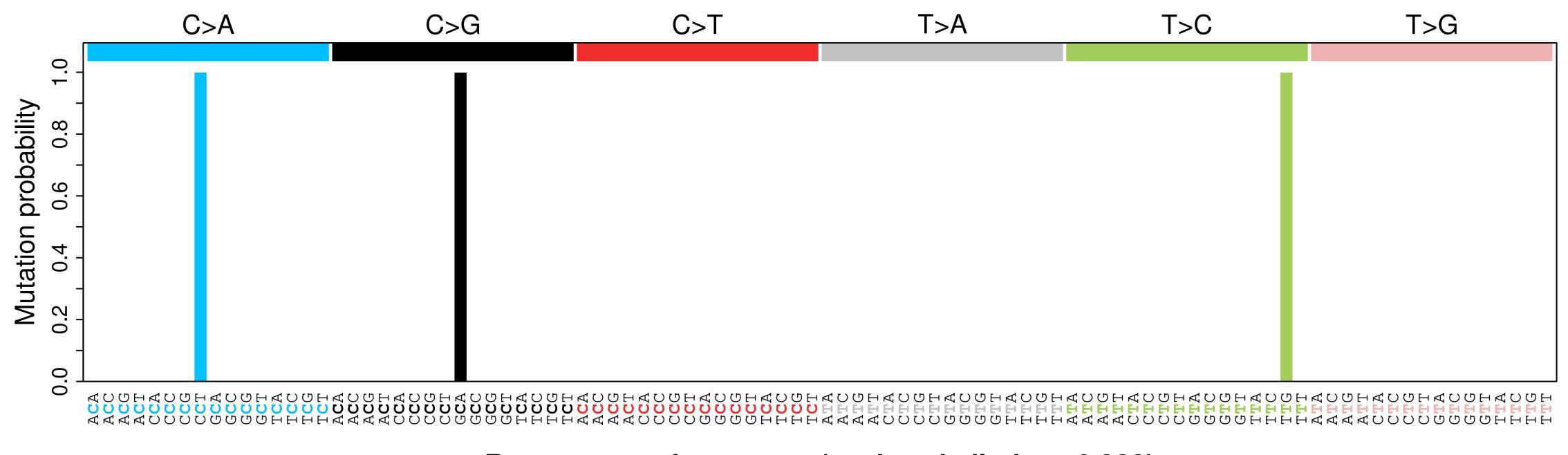


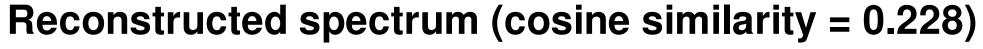


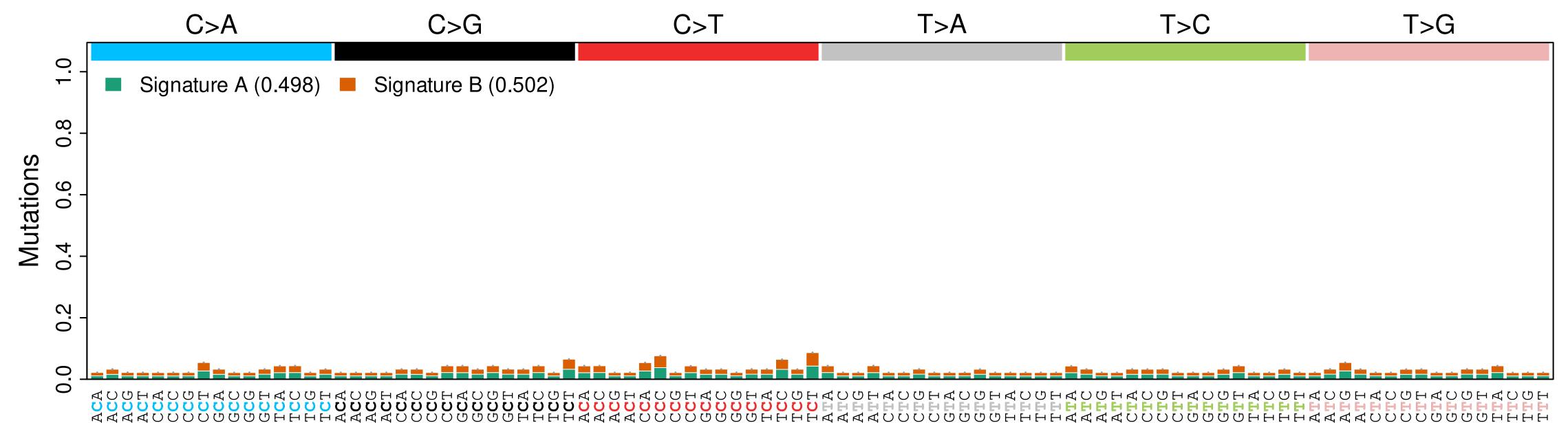






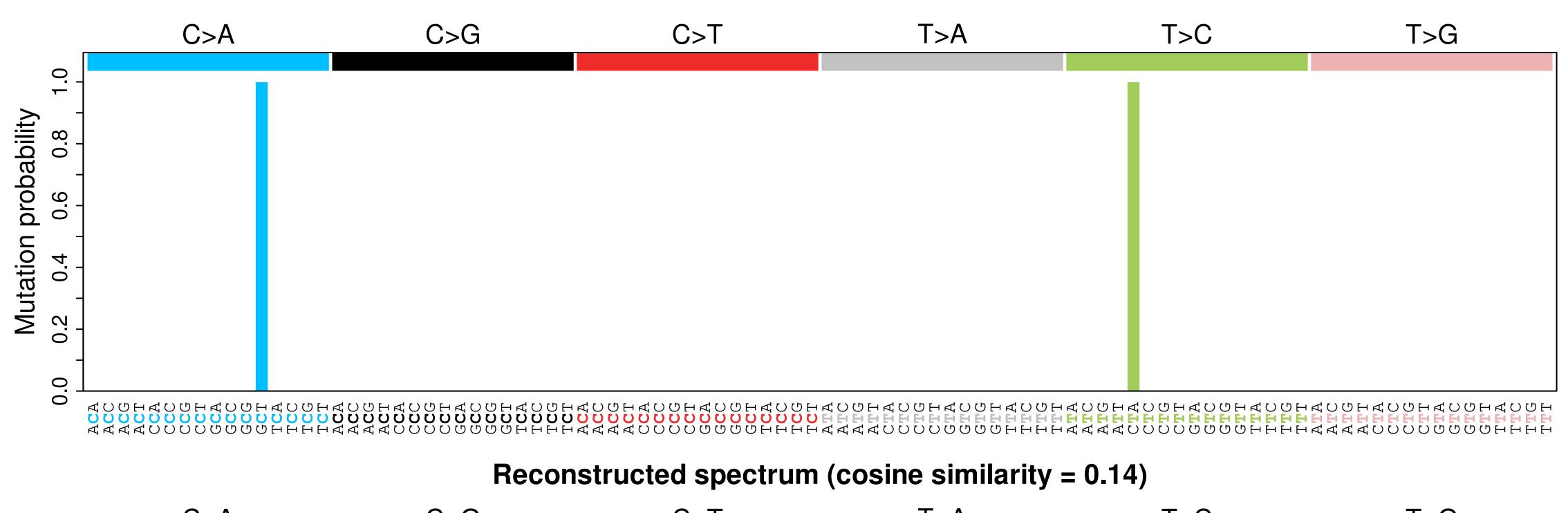


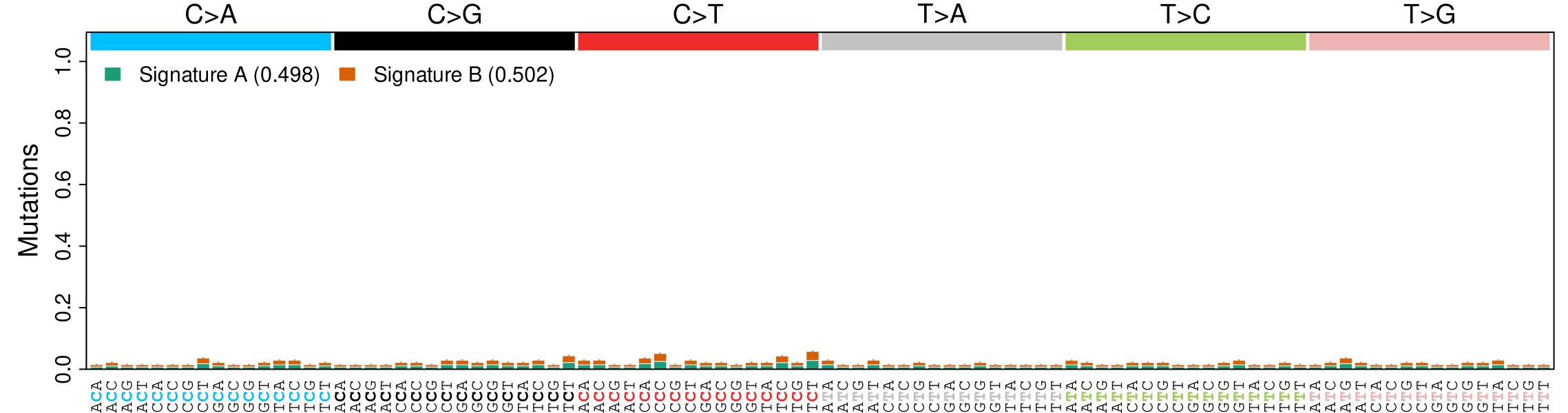


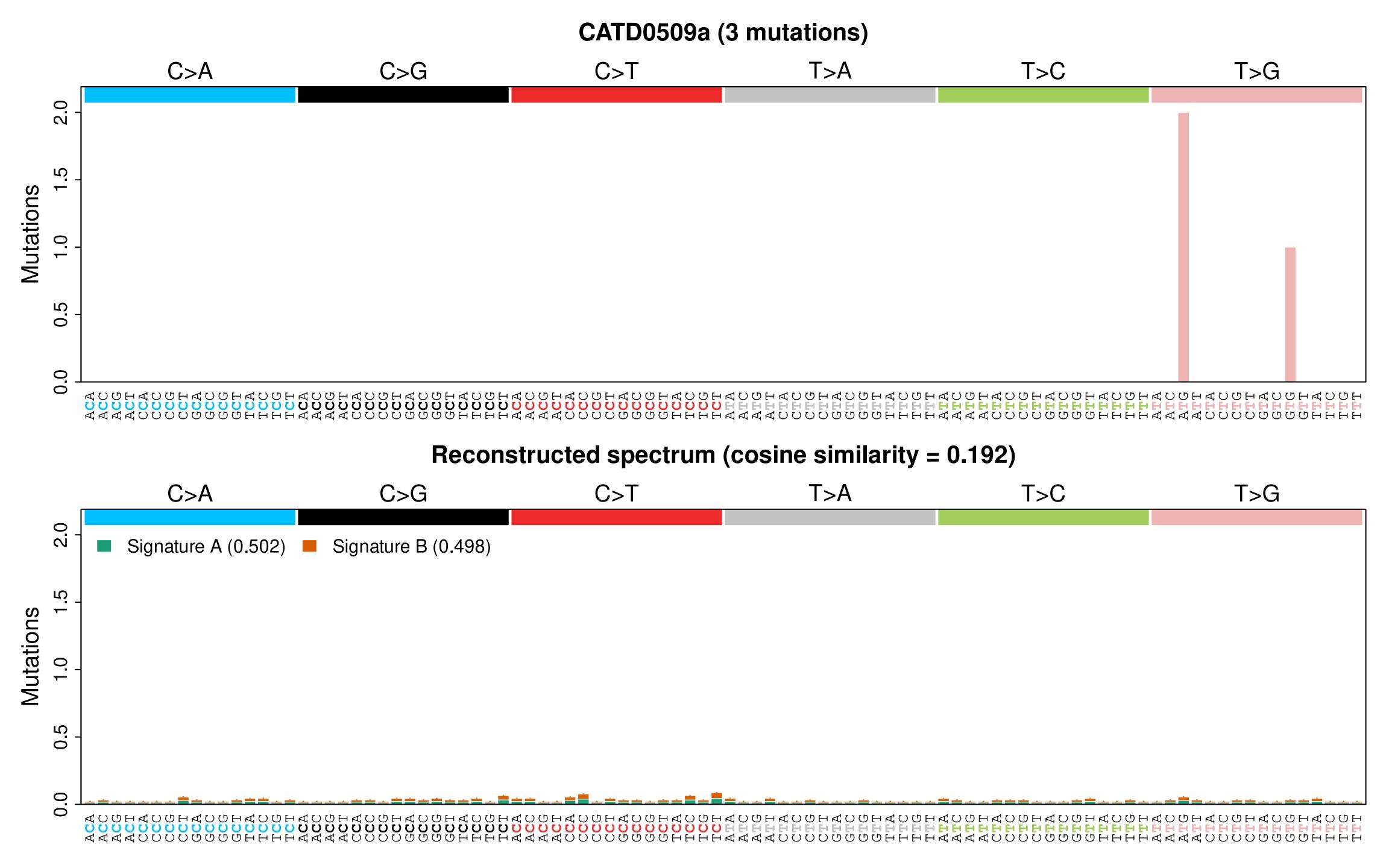


CATD206a (4 mutations) T>G C>A C>G C>T T>A T>C 2.0 5 Mutations 0.5 0.0 **Reconstructed spectrum (cosine similarity = 0.202)** C>G T>A T>C T>G C>A C>T 2.0 Signature A (0.5) Signature B (0.5) 5 Mutations 2 0

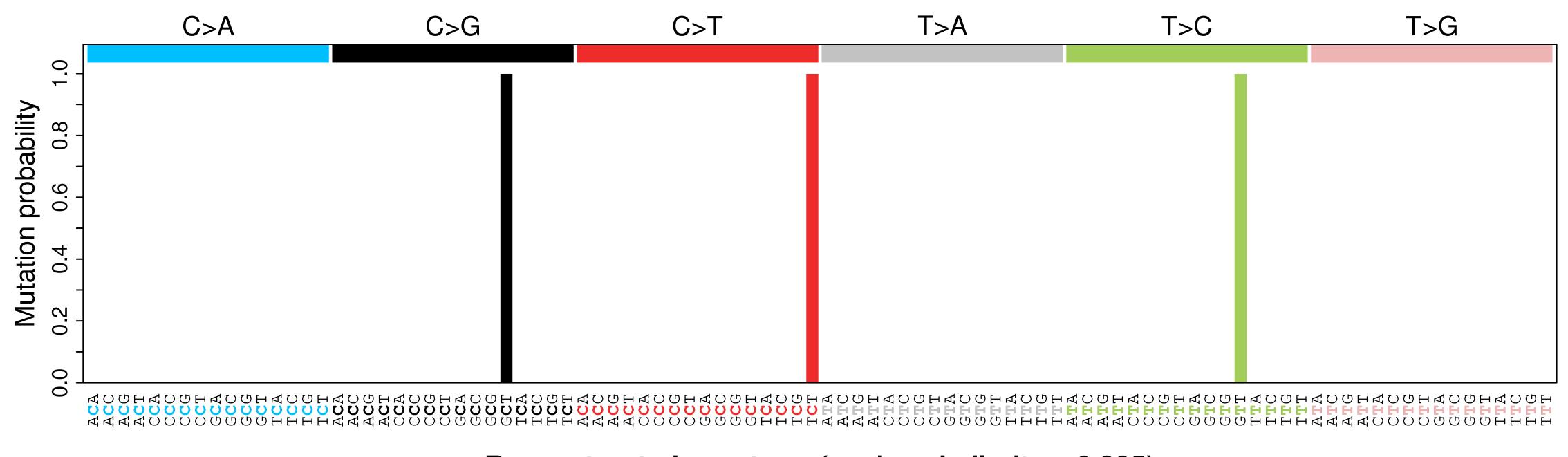


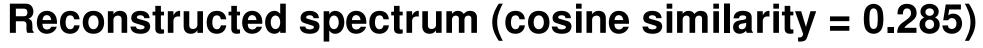


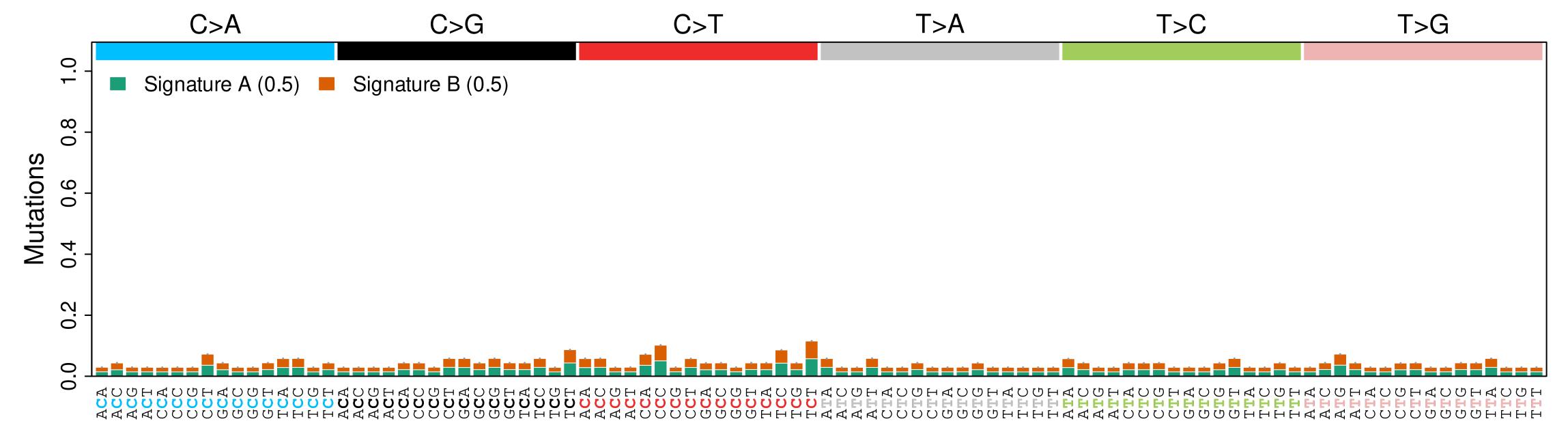




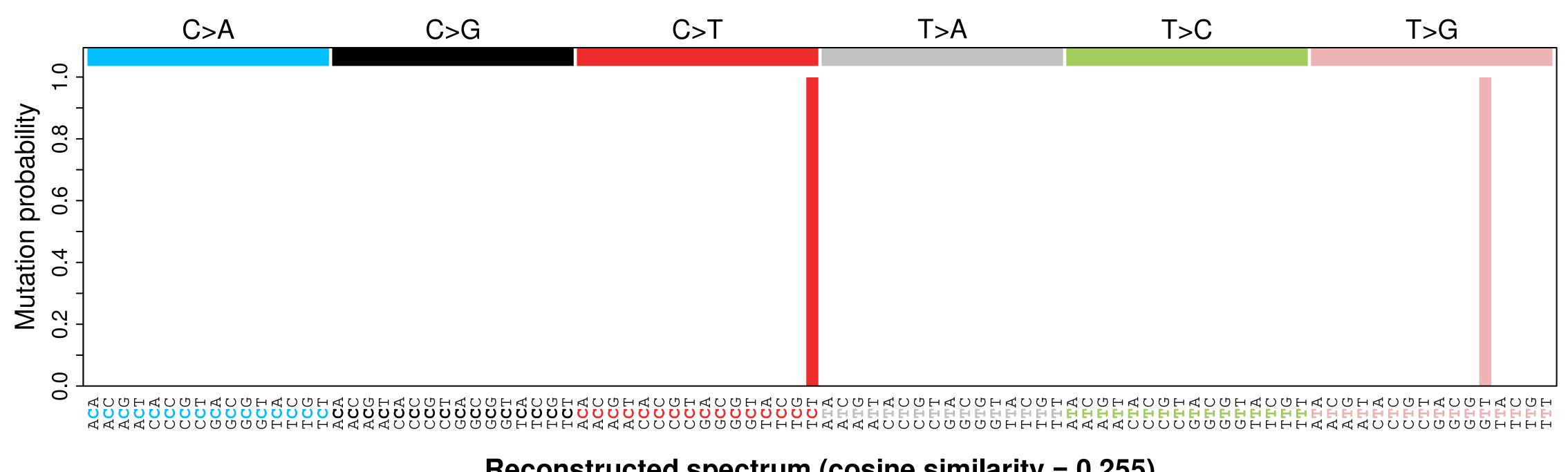




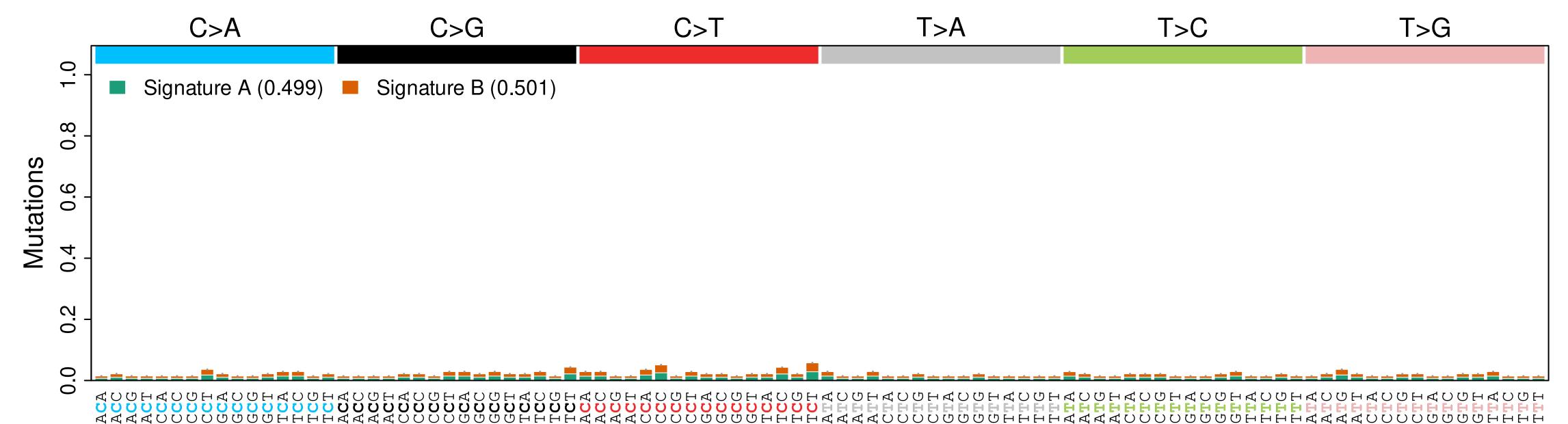




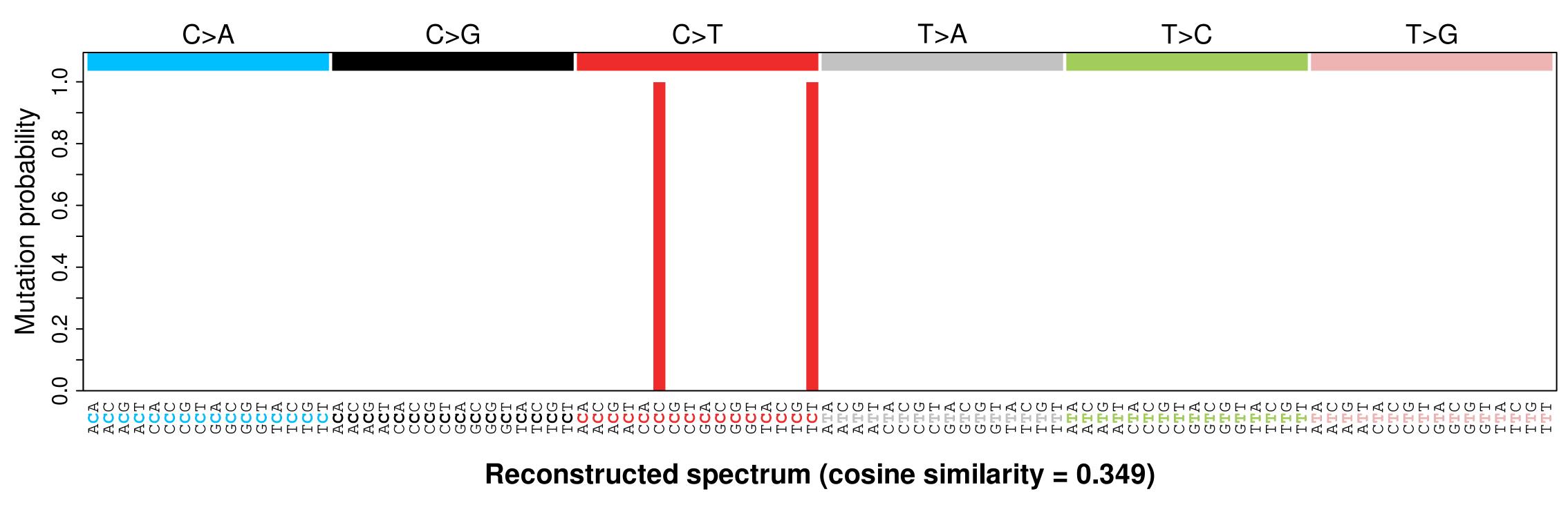


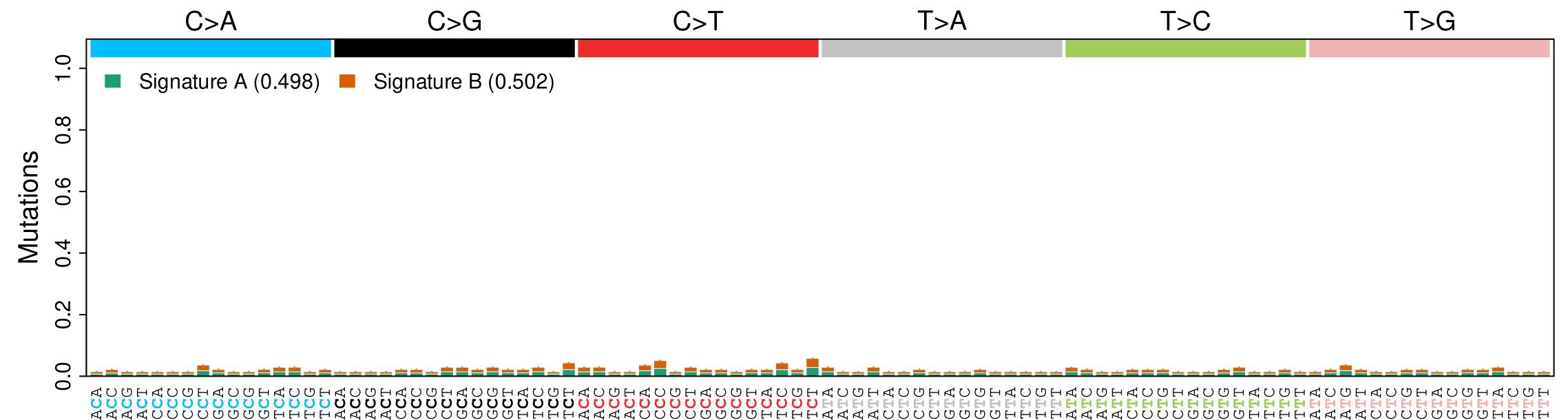


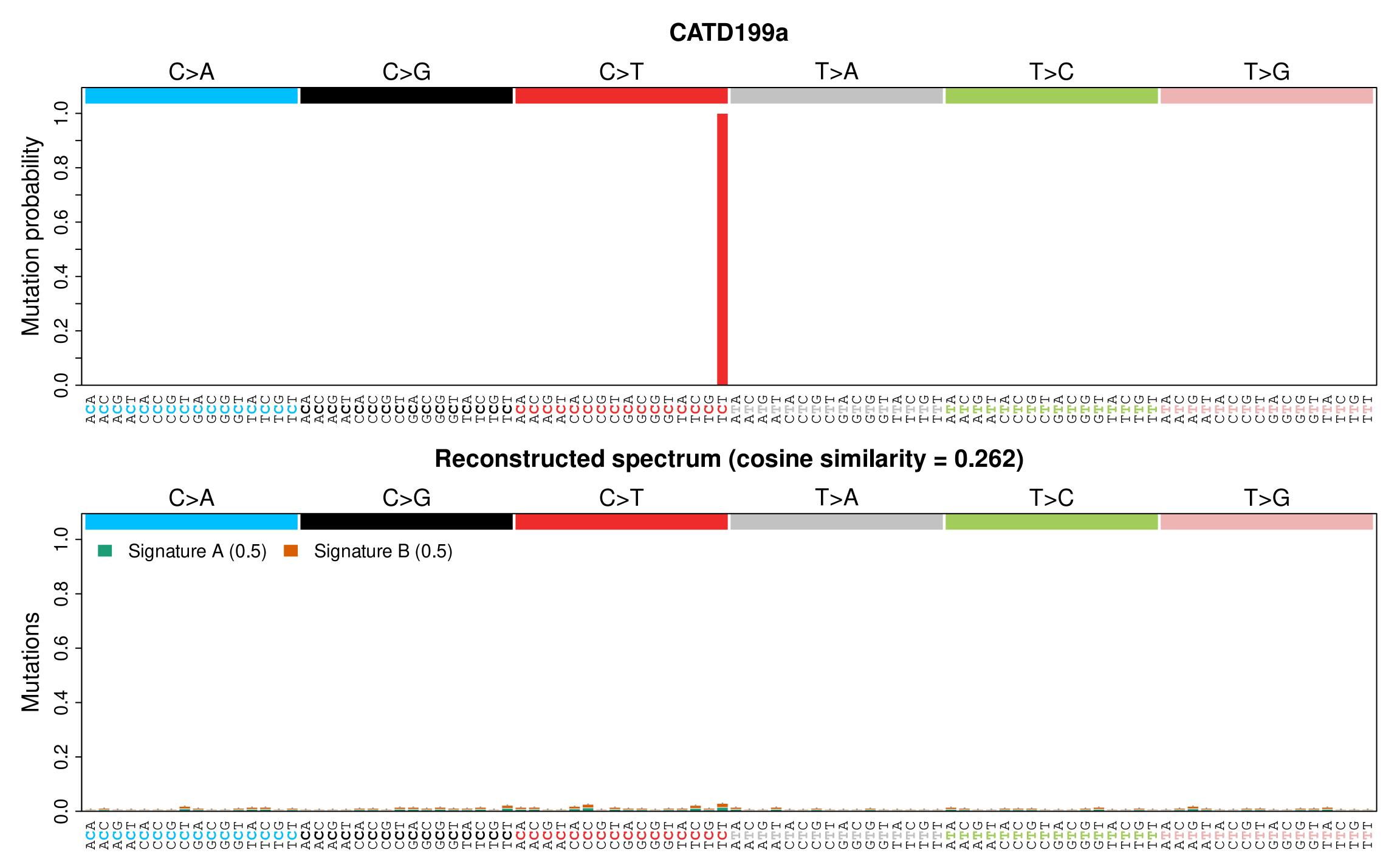
Reconstructed spectrum (cosine similarity = 0.255)

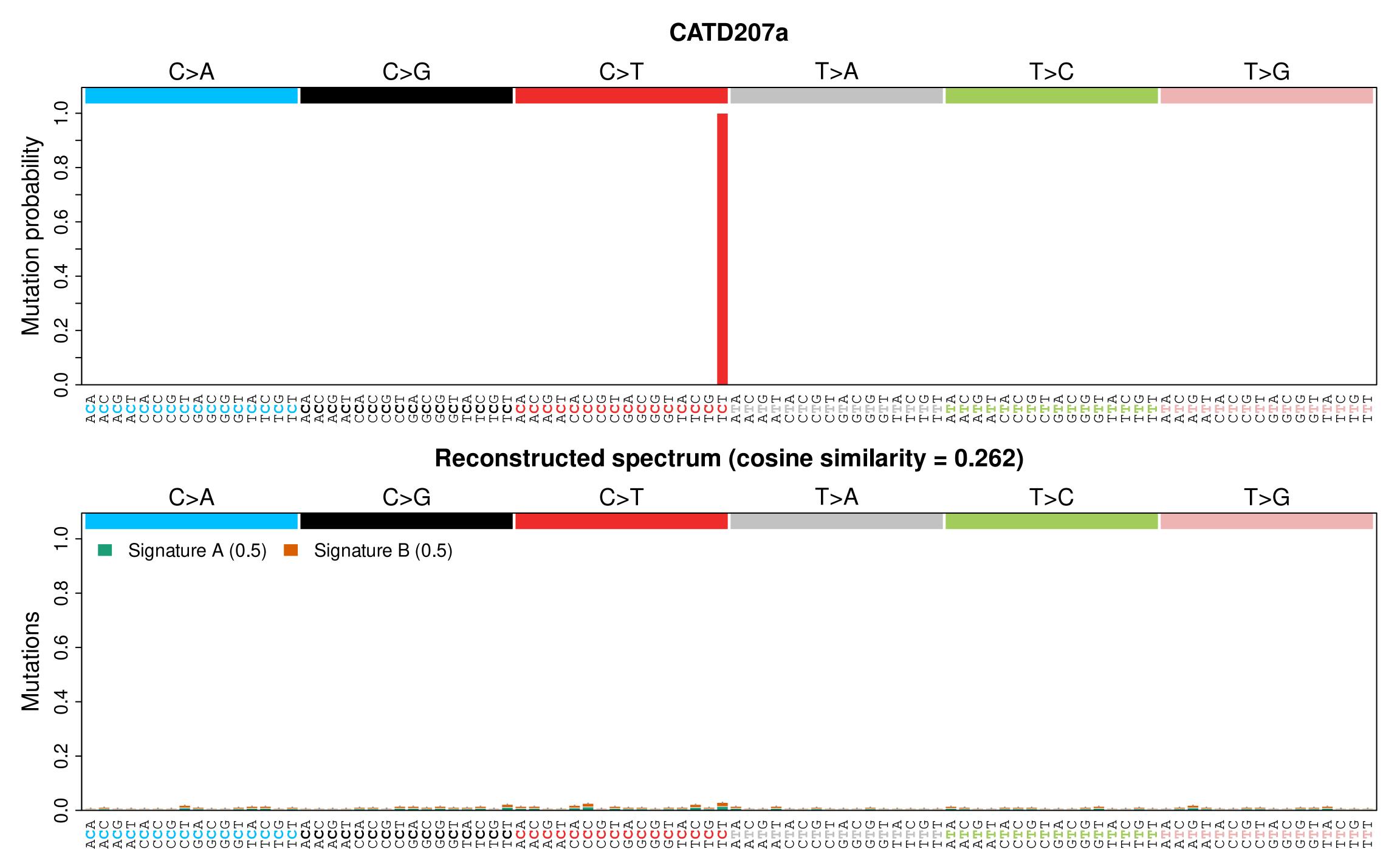




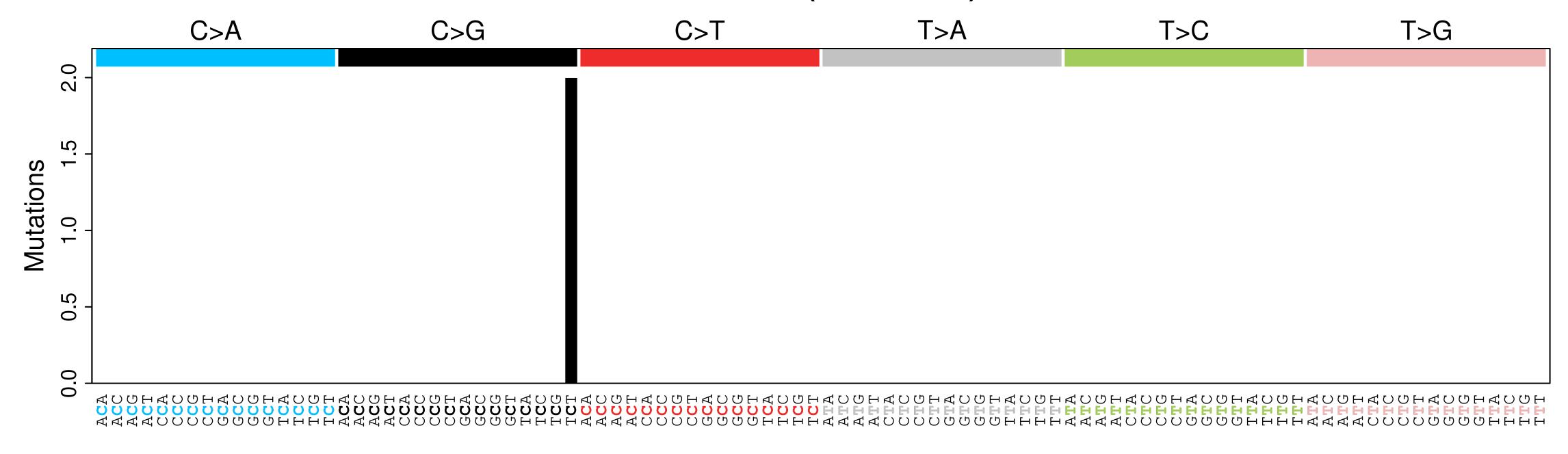




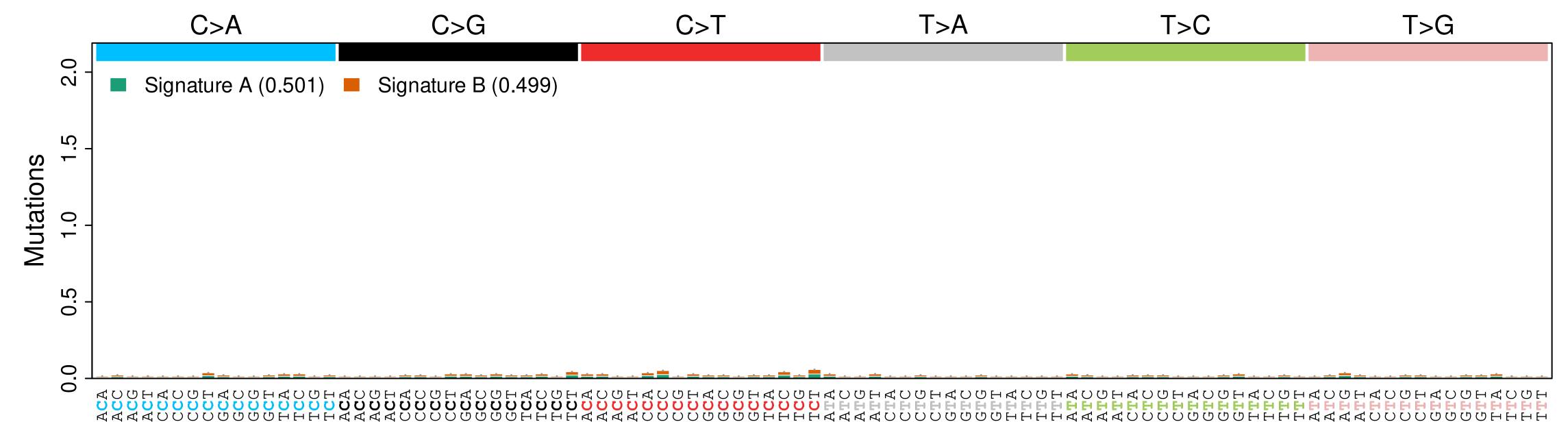




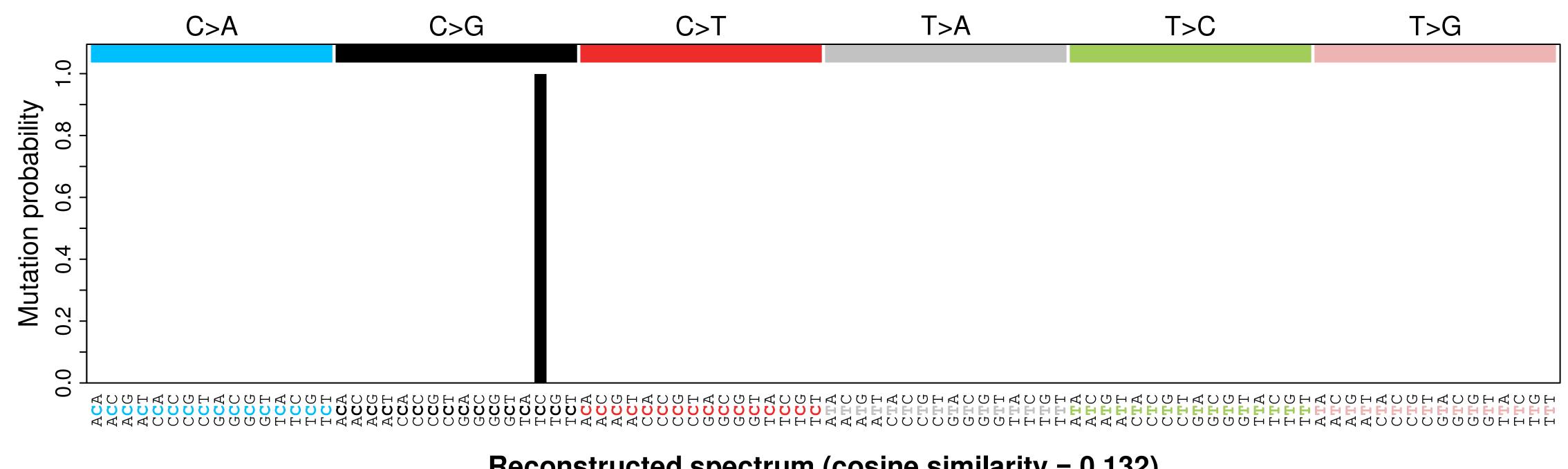
CATD197a (2 mutations)



Reconstructed spectrum (cosine similarity = 0.197)







Reconstructed spectrum (cosine similarity = 0.132)

