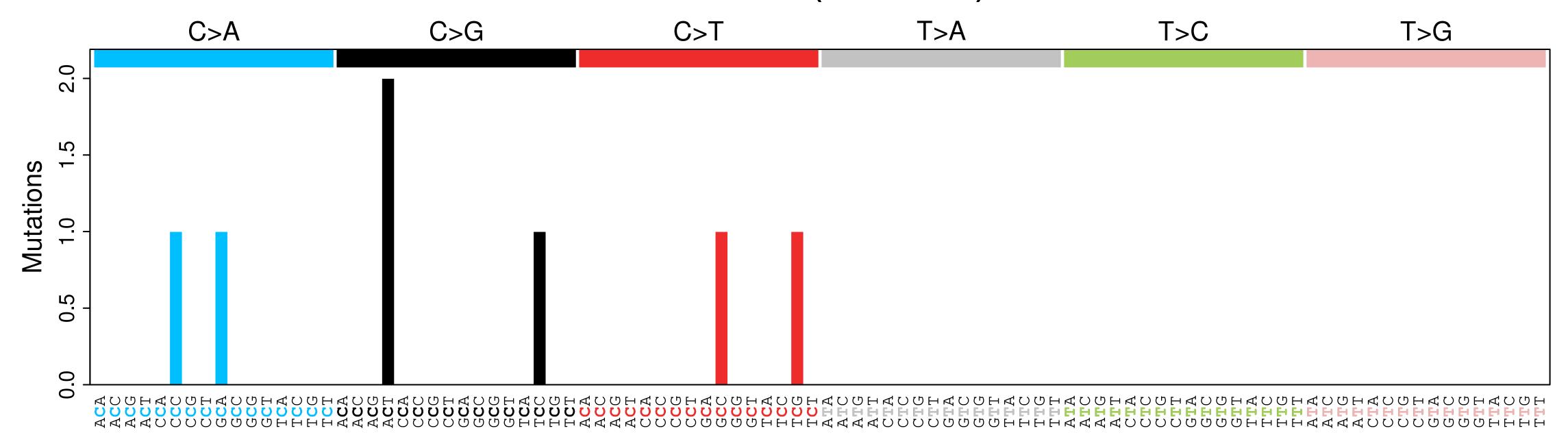
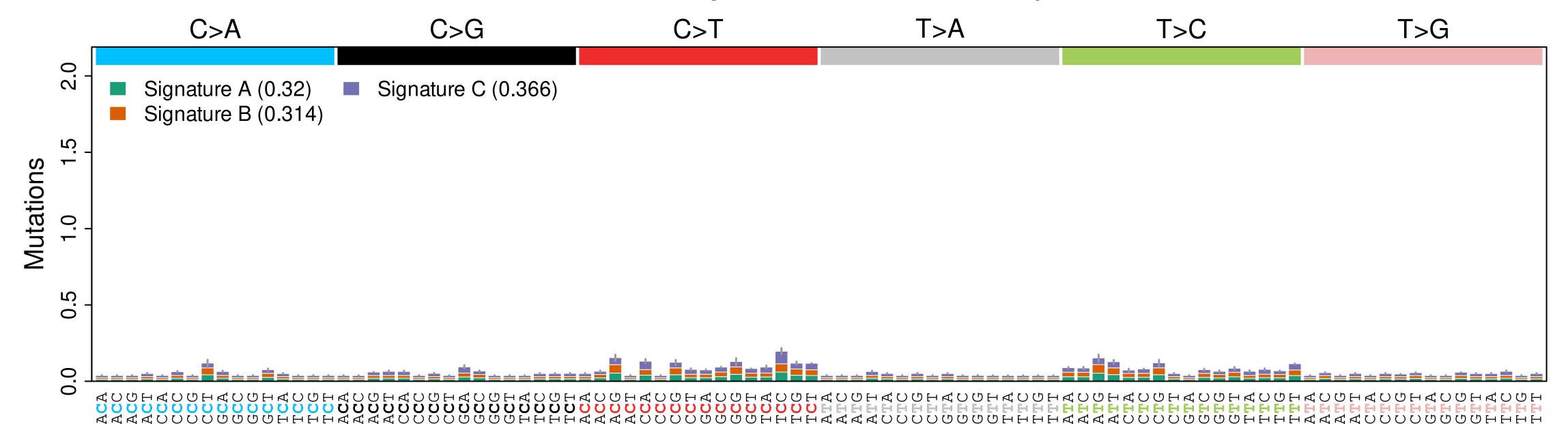
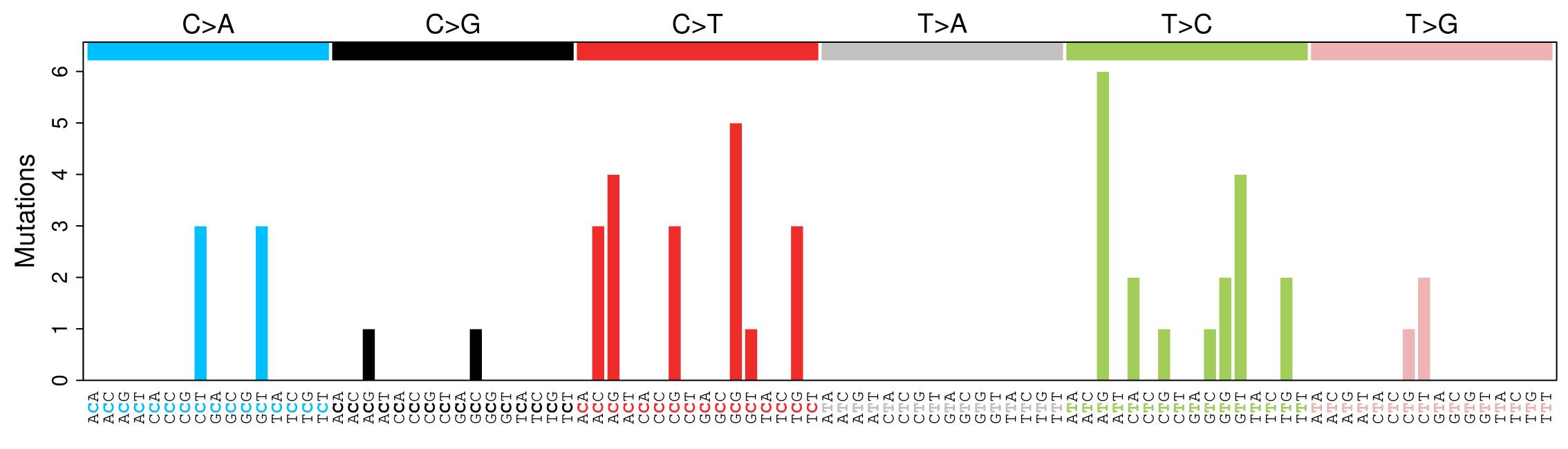
CATD0621a (7 mutations)



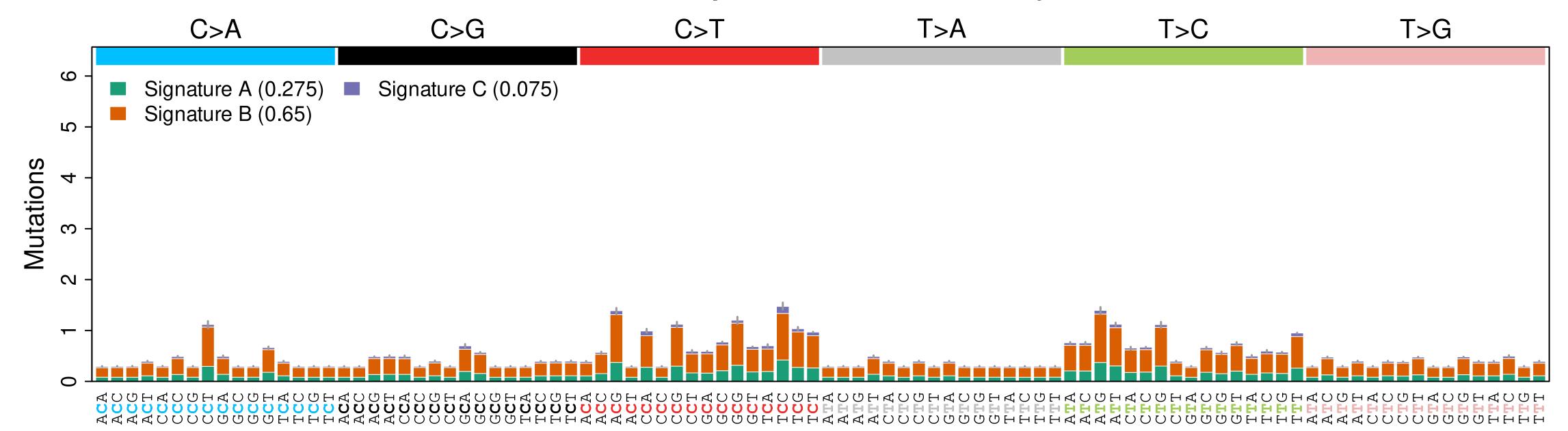
Reconstructed spectrum (cosine similarity = 0.25)



CATD0463a (48 mutations)

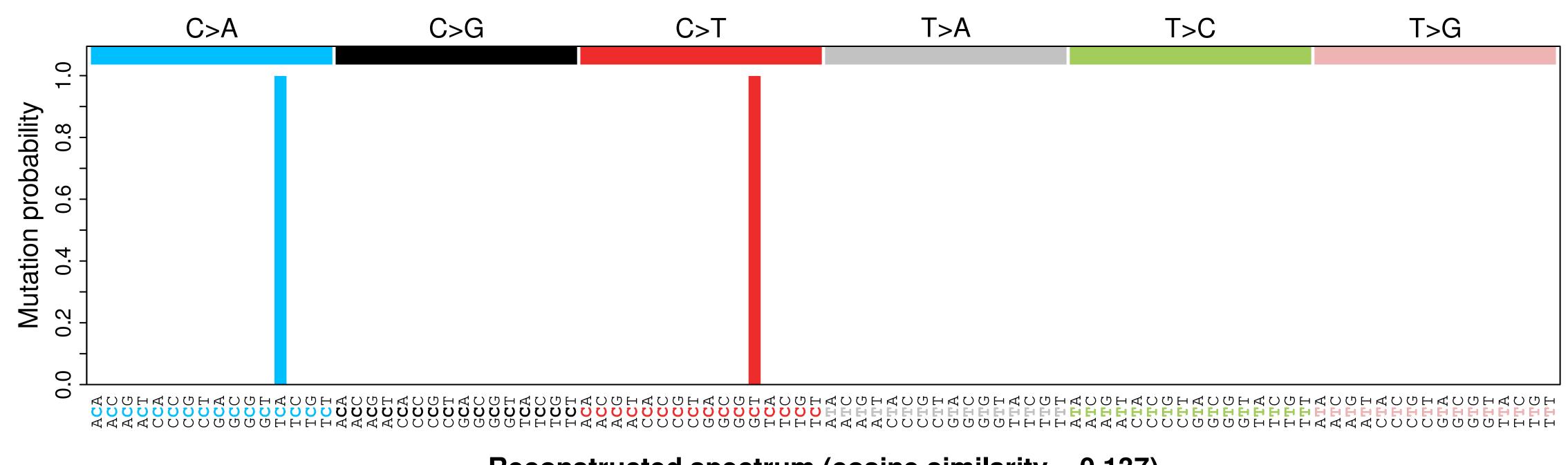


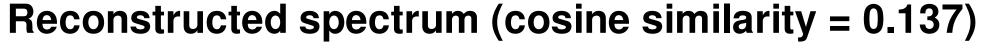
Reconstructed spectrum (cosine similarity = 0.62)

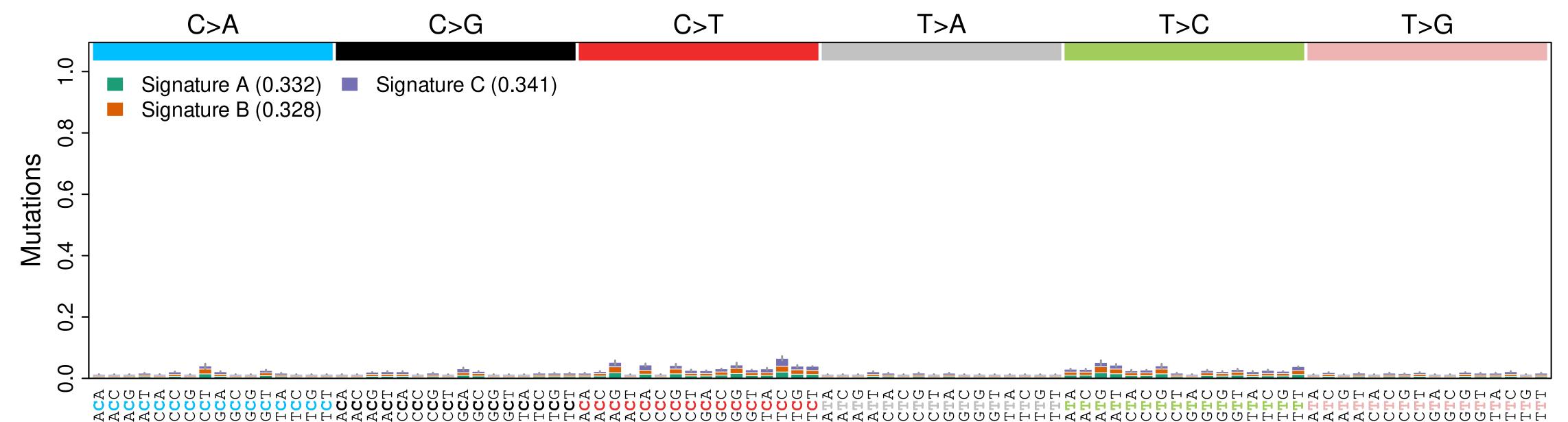


CATD0453a (4 mutations) T>G C>A C>G C>T T>A T>C 2.0 5 Mutations 0.5 0.0 Reconstructed spectrum (cosine similarity = 0.3) C>A T>A T>C T>G C>G C>T 2.0 Signature A (0.328) Signature C (0.351) Signature B (0.322) 5 Mutations 2 0

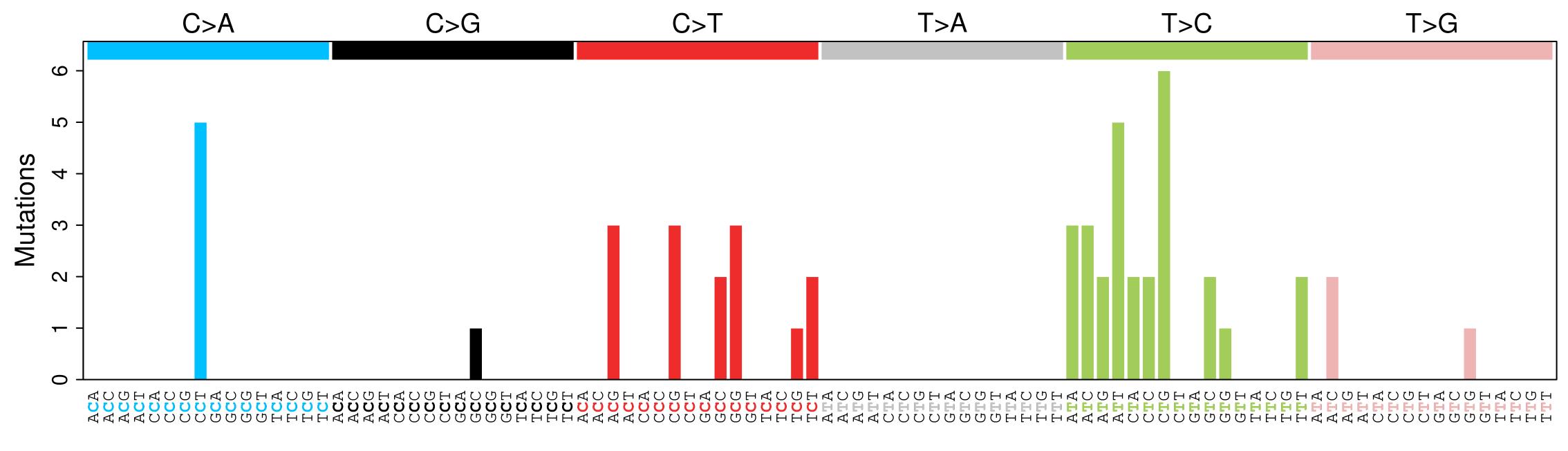




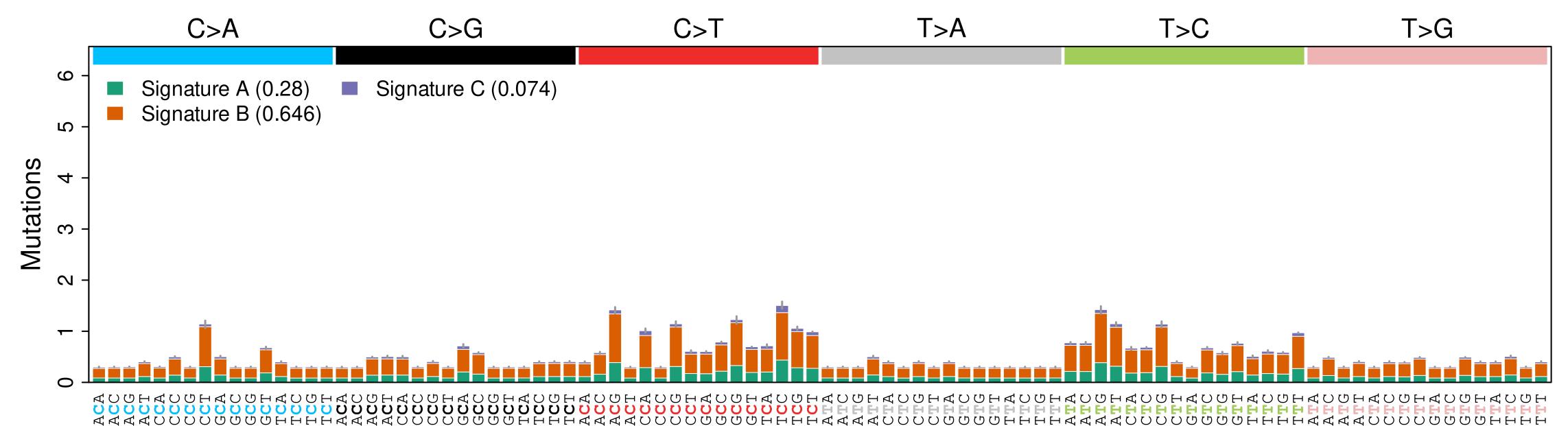




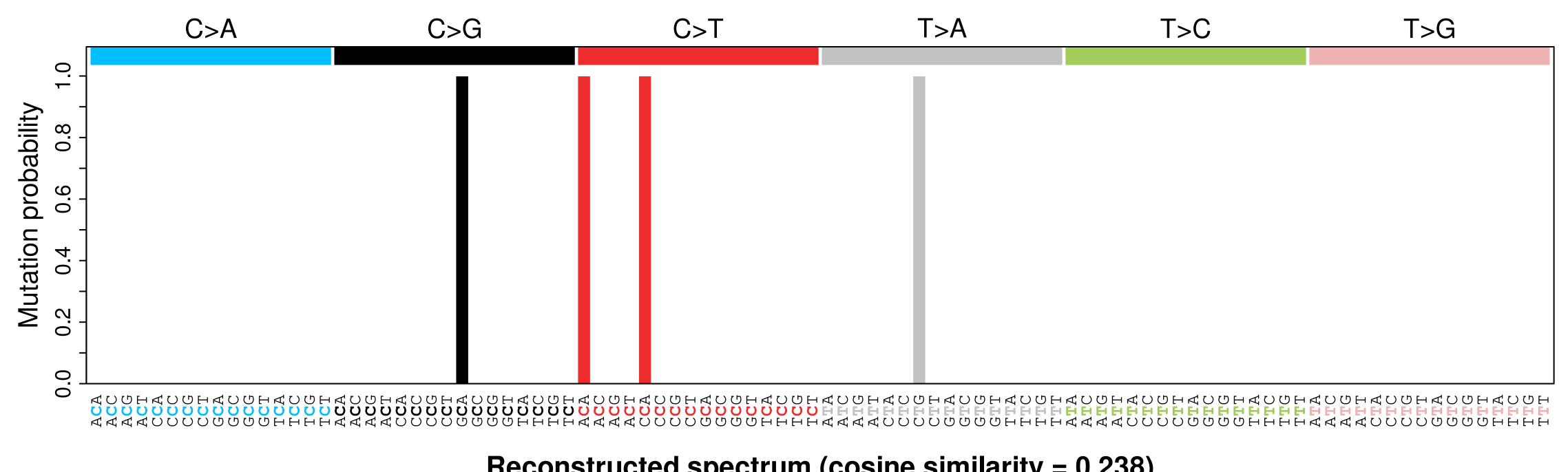
CATD0465a (51 mutations)



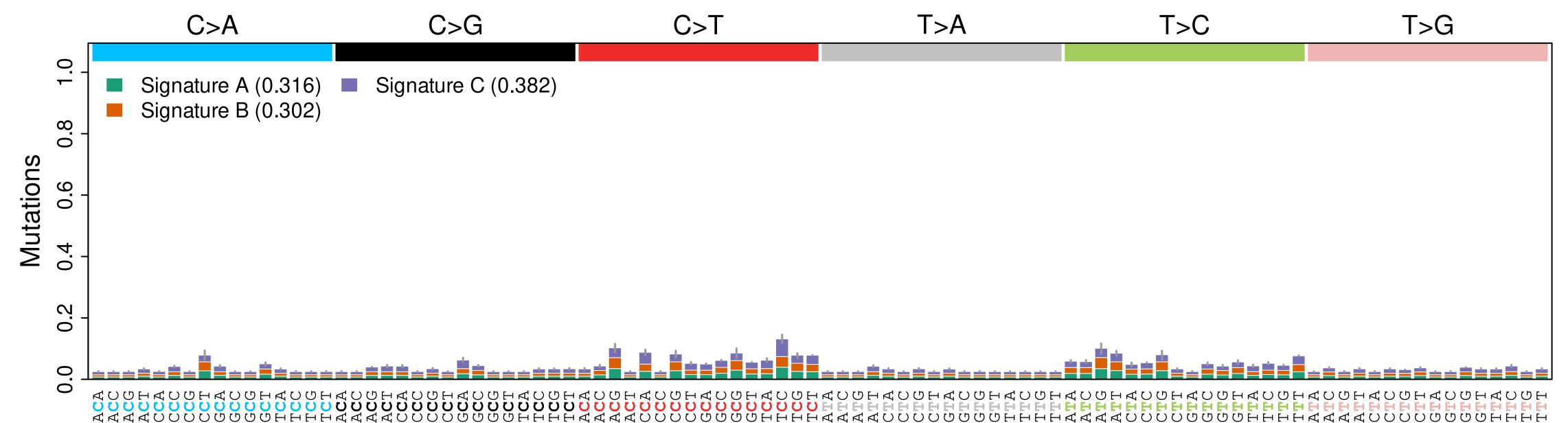




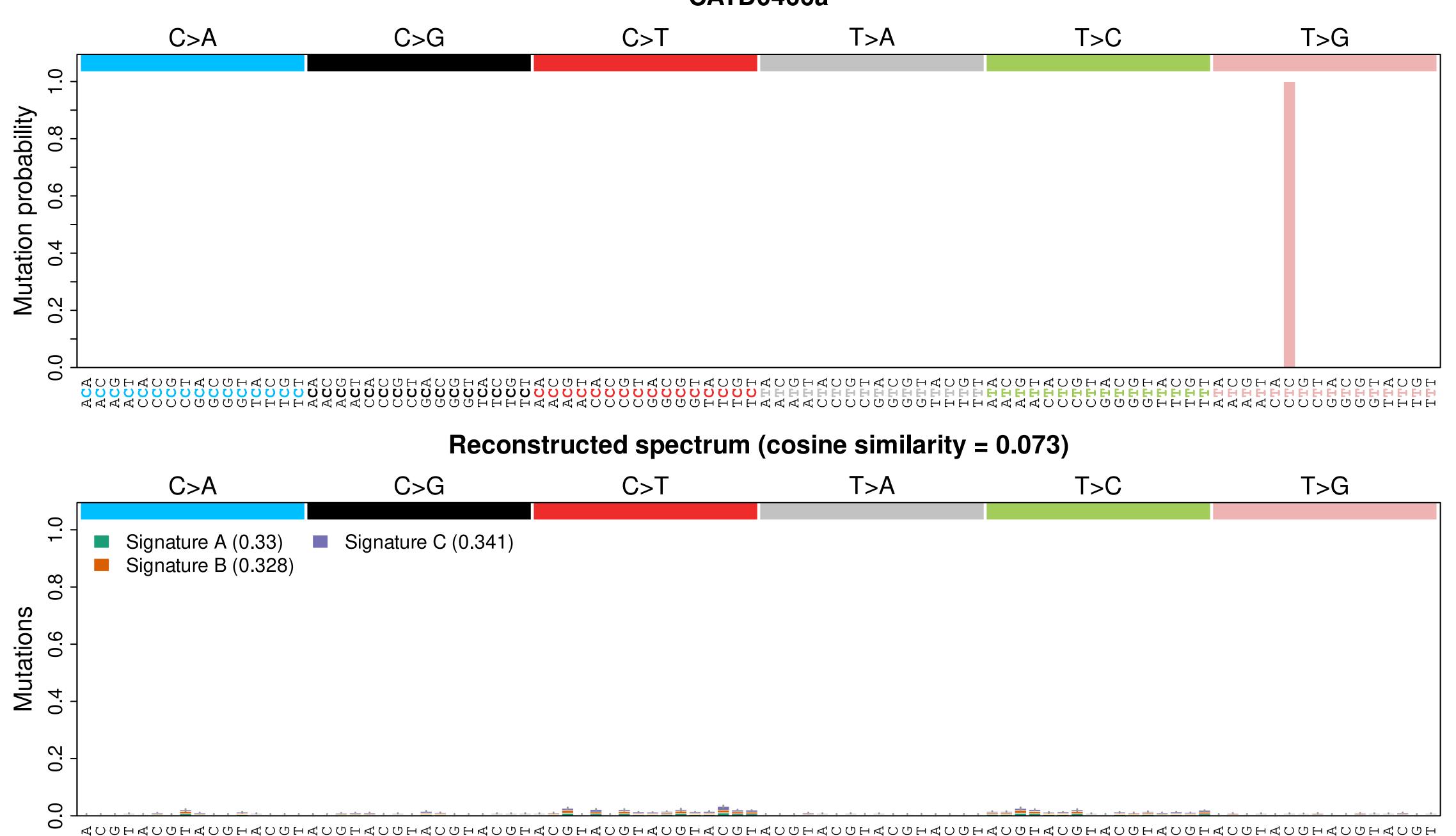
CATD0458a



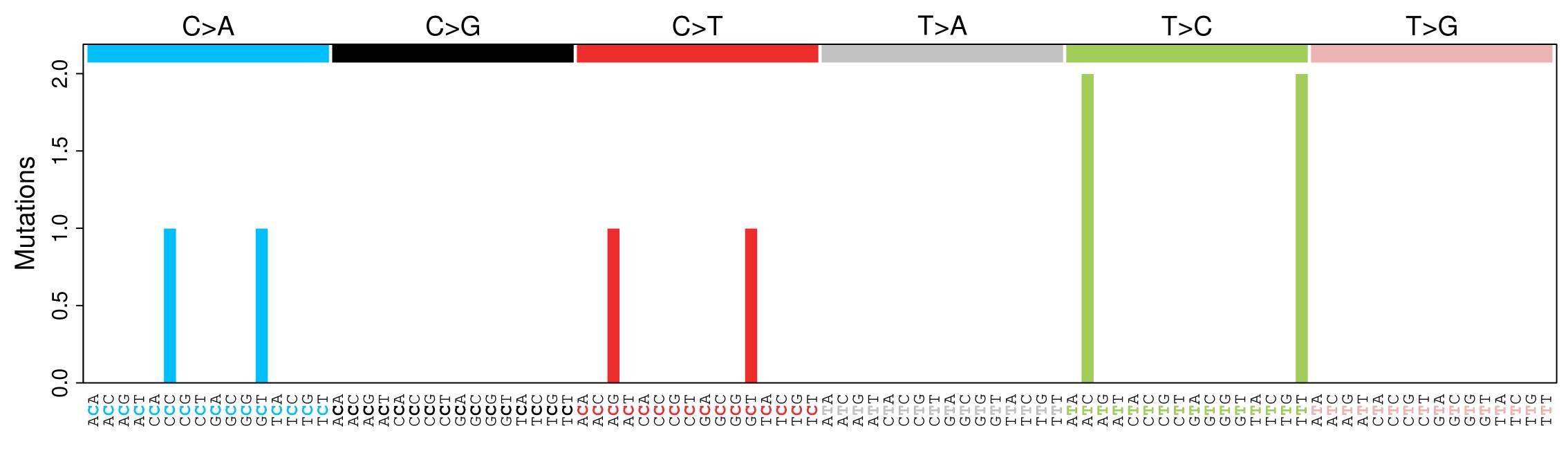
Reconstructed spectrum (cosine similarity = 0.238)



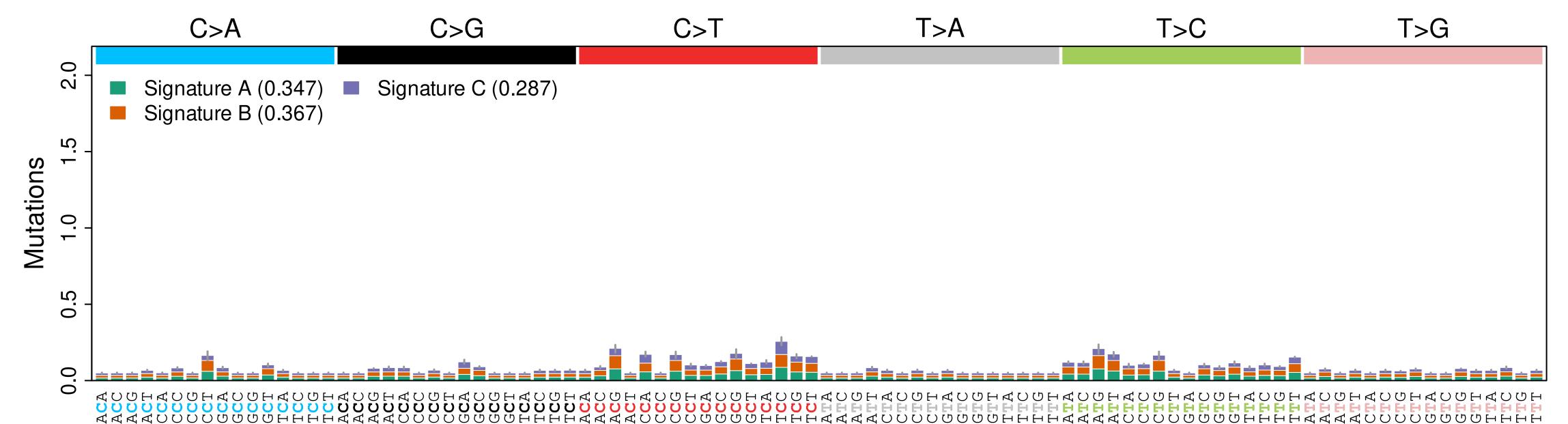




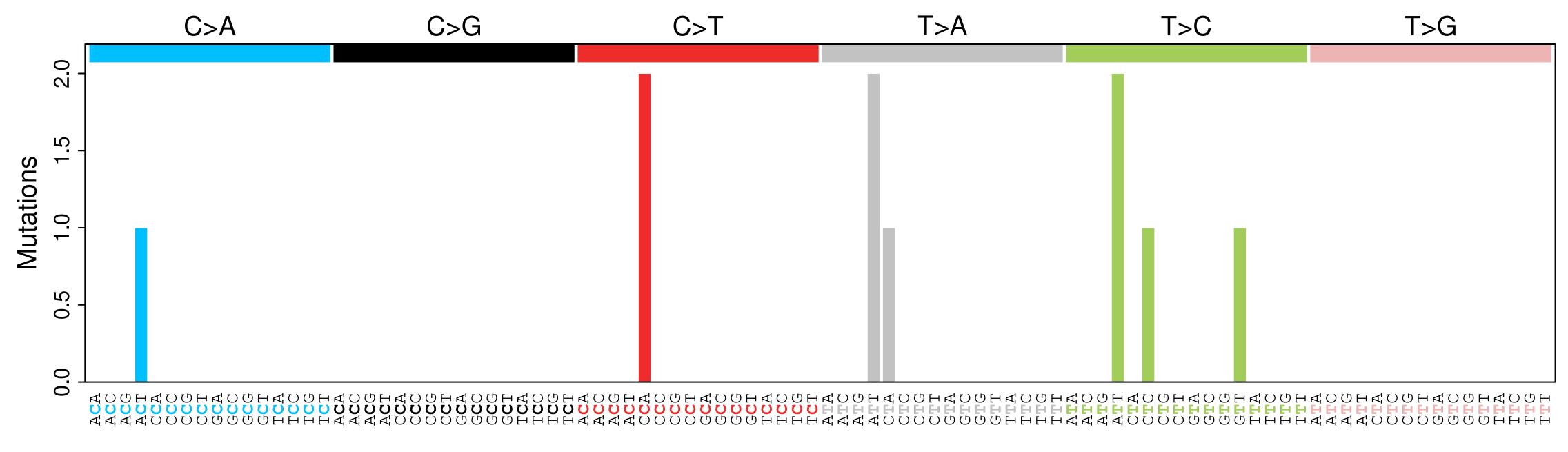
CATD0454a (8 mutations)



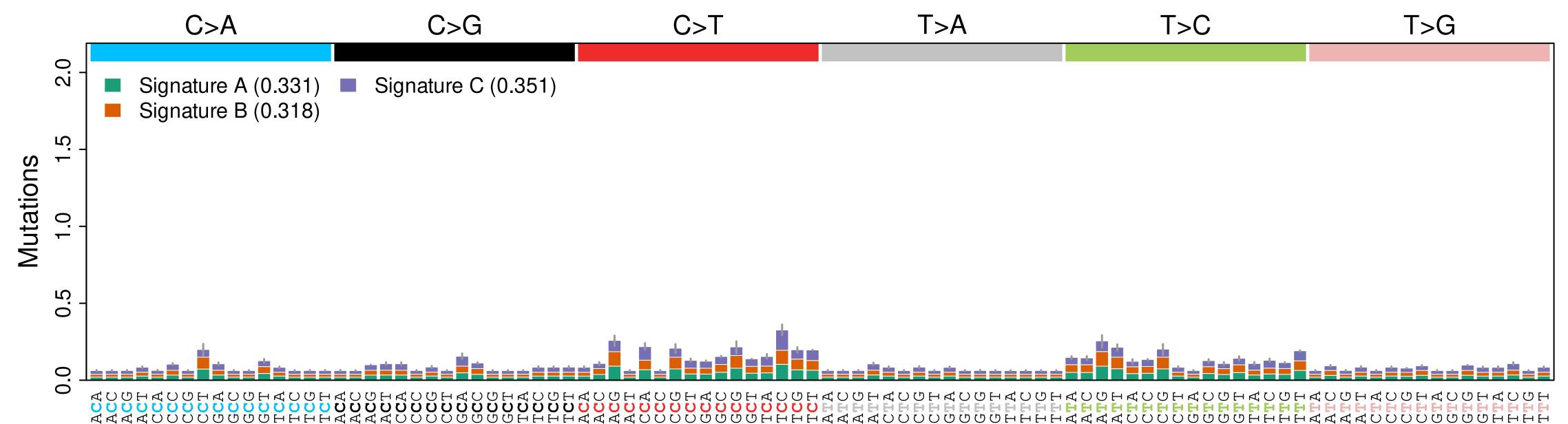
Reconstructed spectrum (cosine similarity = 0.328)



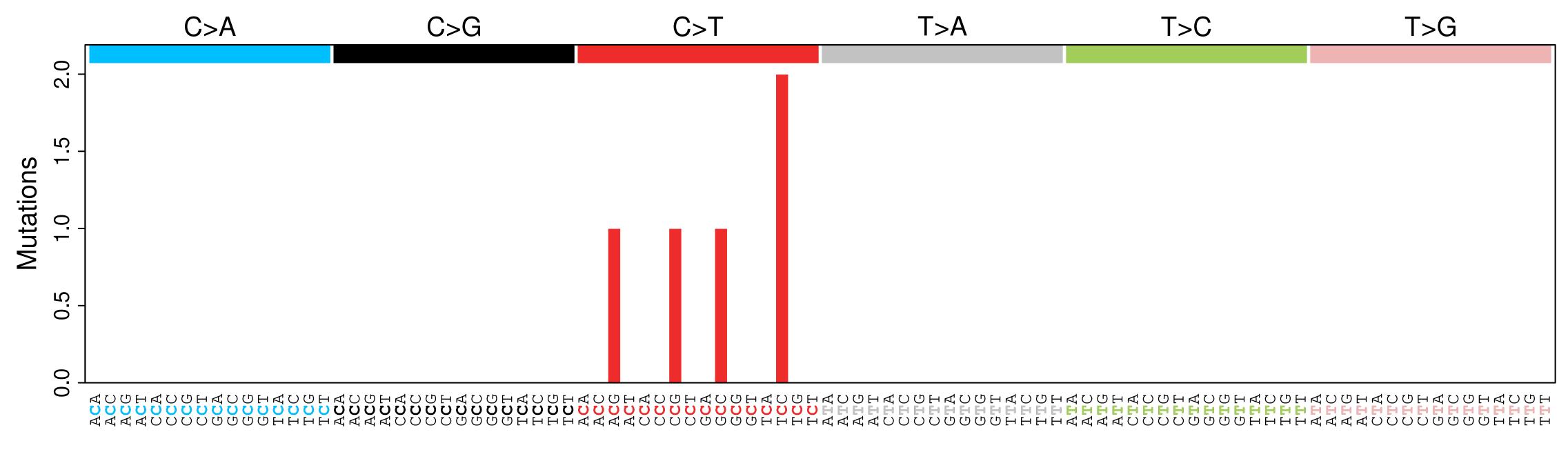
CATD0446a (10 mutations)



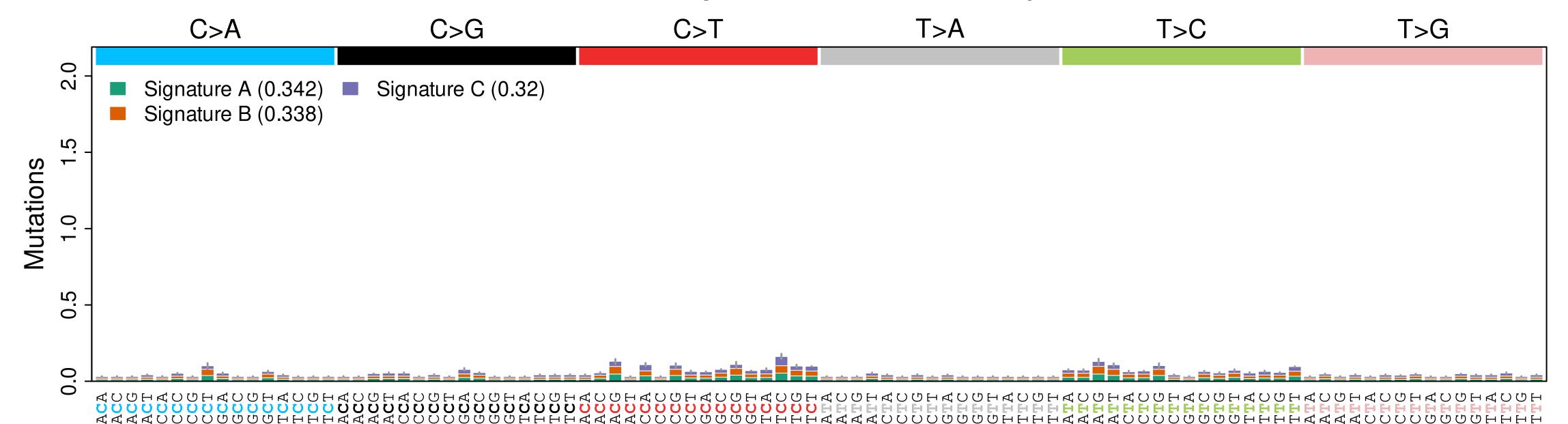
Reconstructed spectrum (cosine similarity = 0.331)



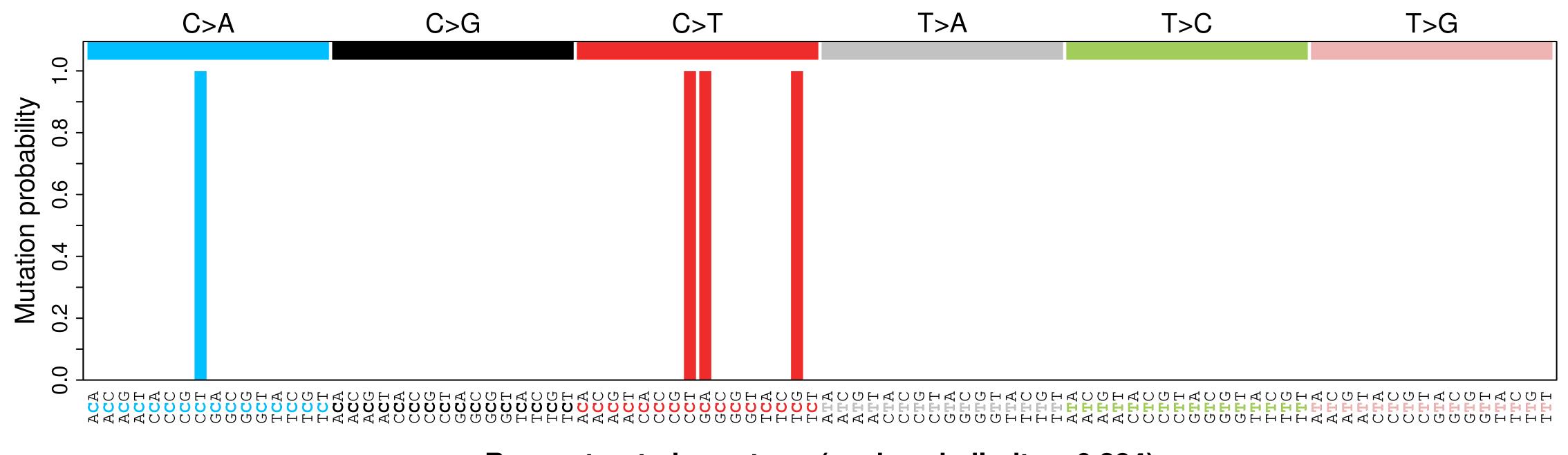
CATD0451a (5 mutations)



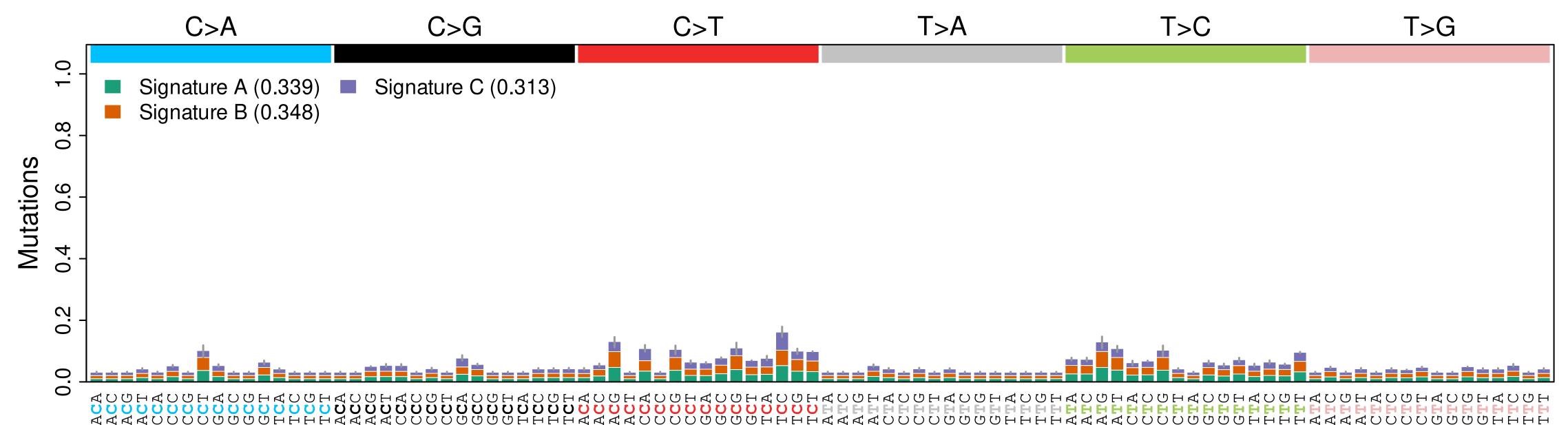
Reconstructed spectrum (cosine similarity = 0.418)



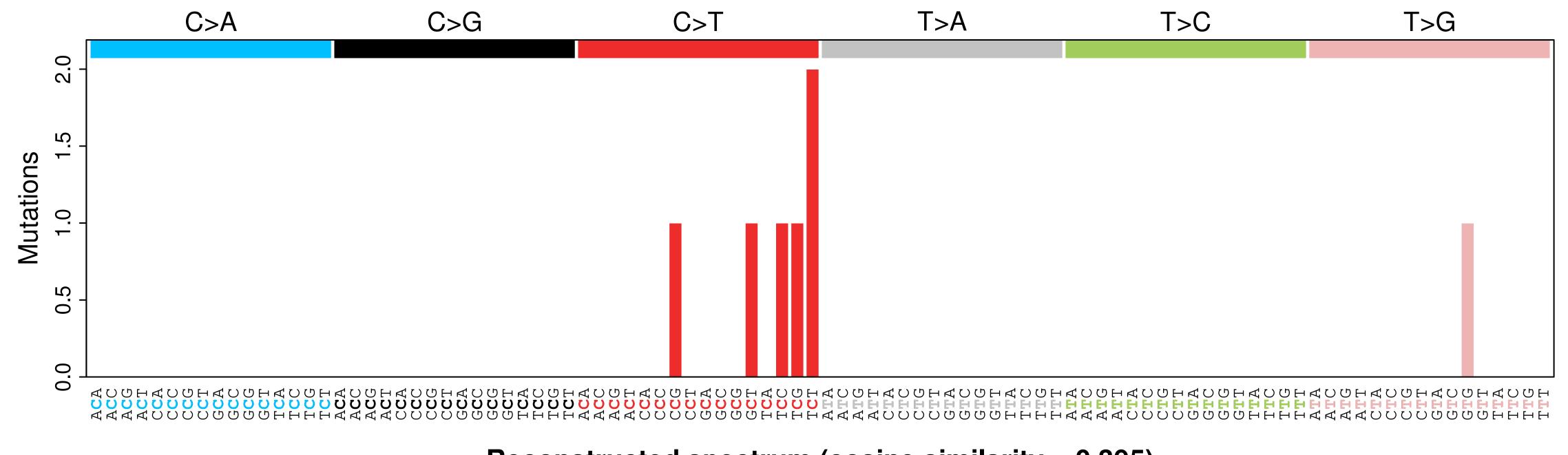
CATD0455a



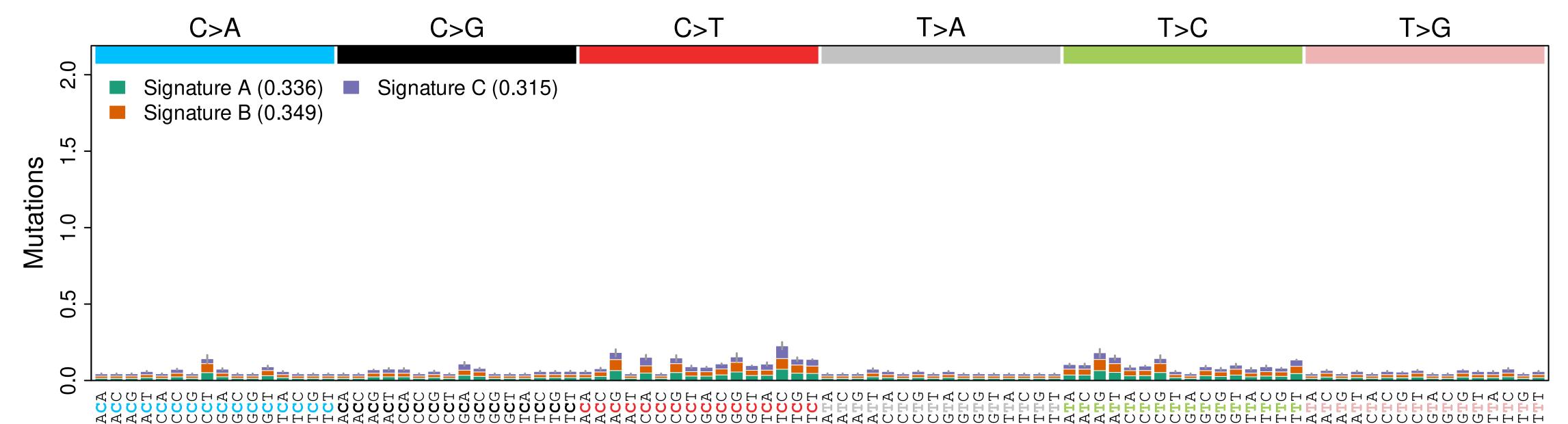
Reconstructed spectrum (cosine similarity = 0.284)



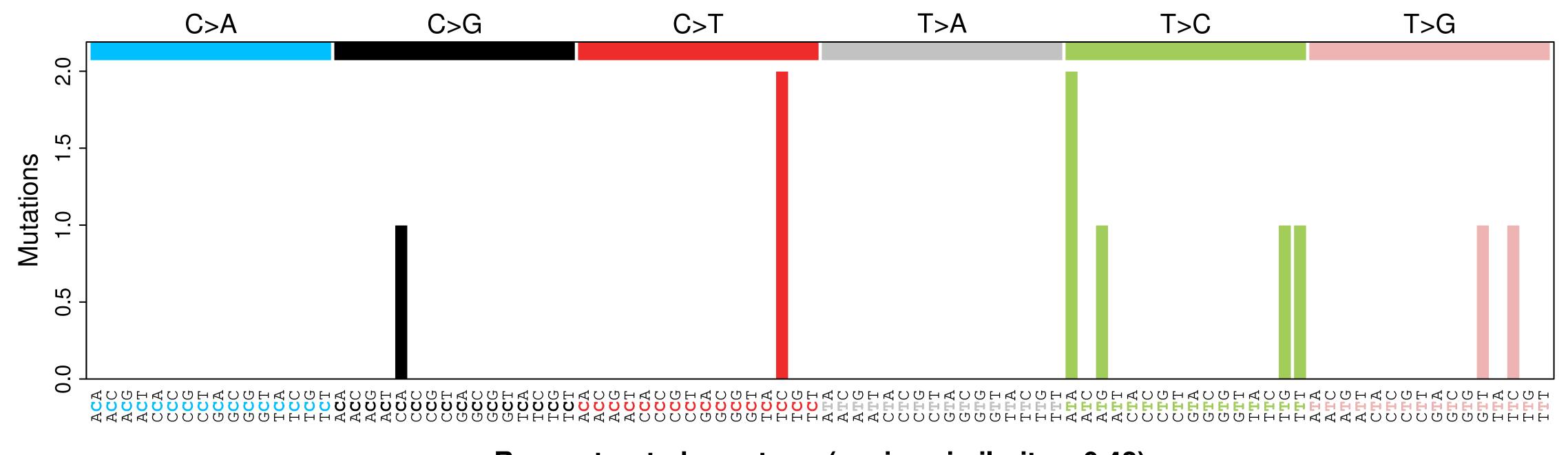
CATD0457a (7 mutations)



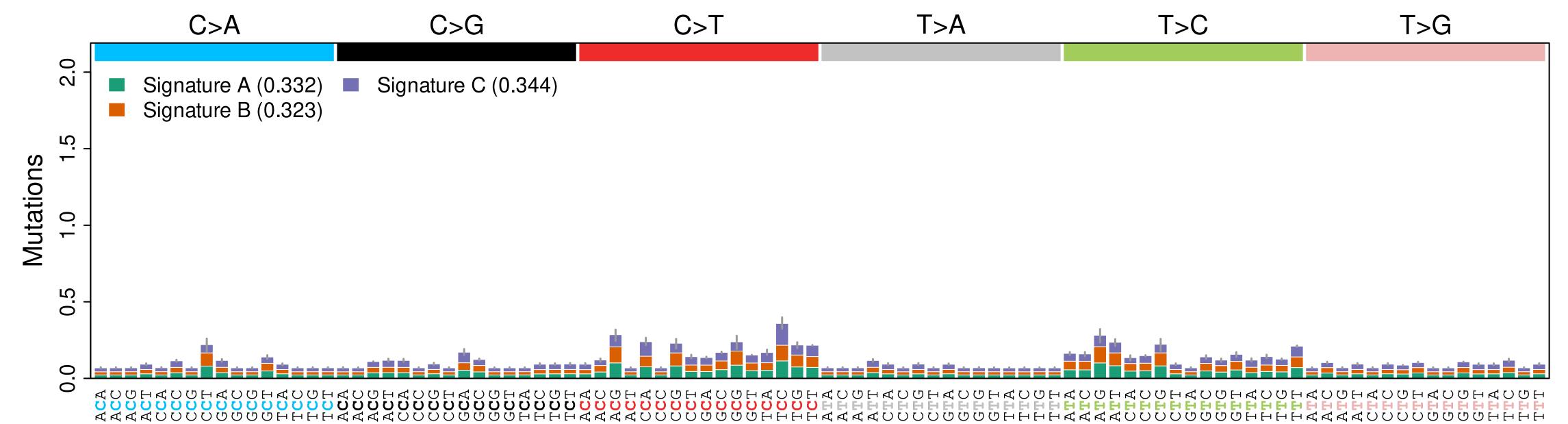
Reconstructed spectrum (cosine similarity = 0.395)



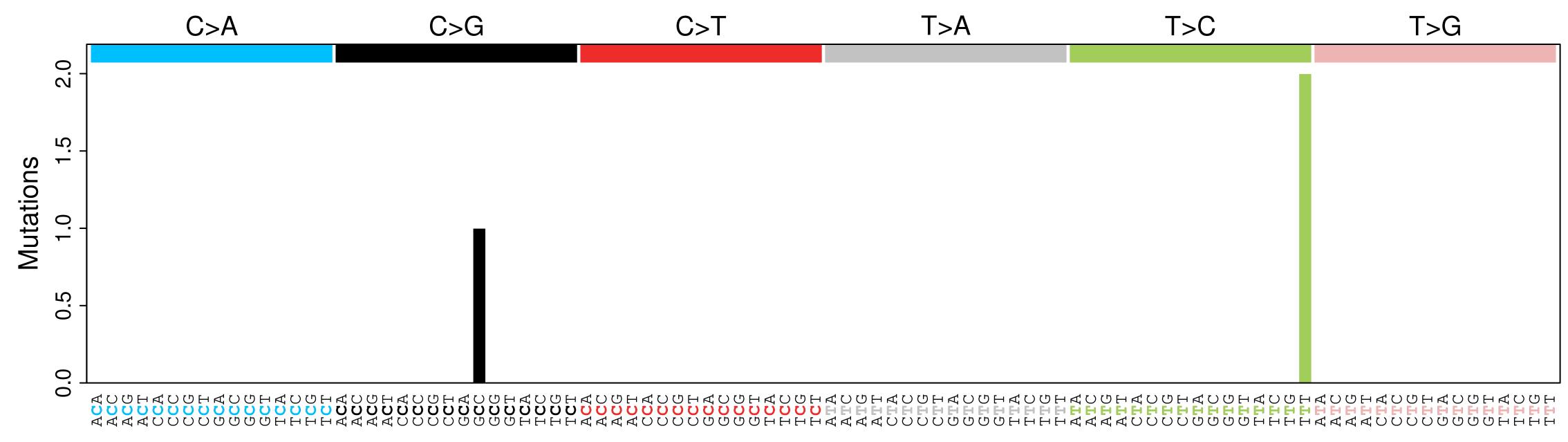
CATD0452a (10 mutations)



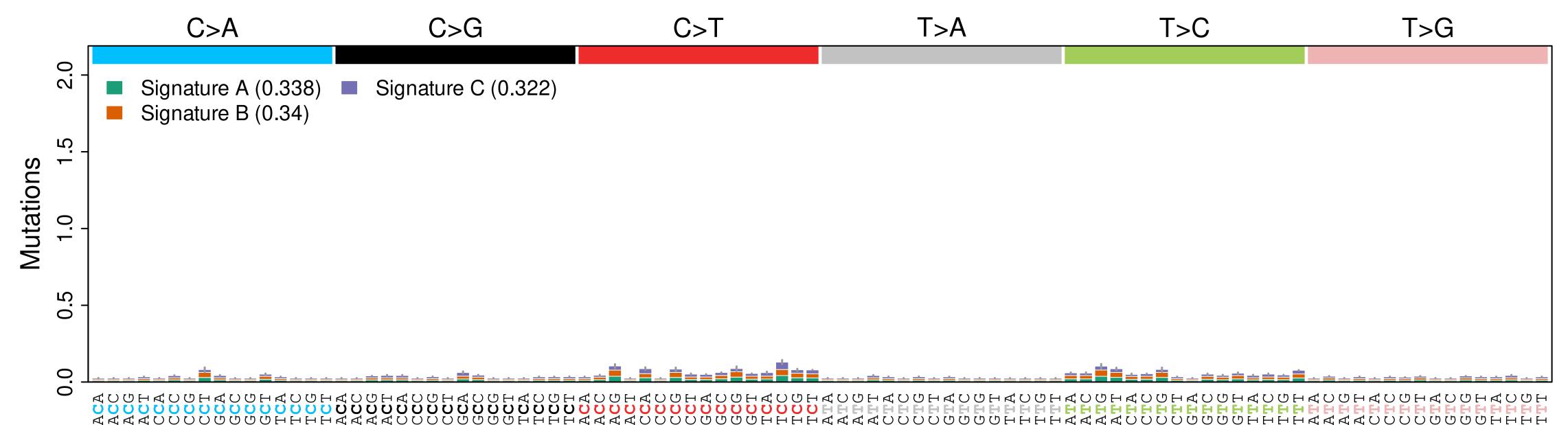
Reconstructed spectrum (cosine similarity = 0.42)



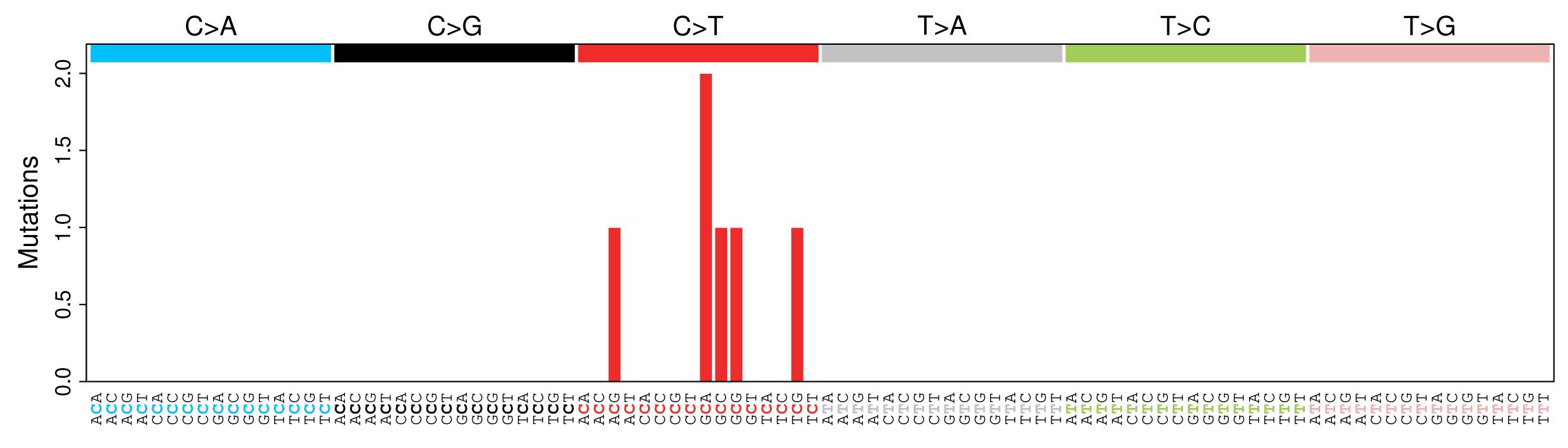
CATD0447a (3 mutations) C>A C>G C>T T>A



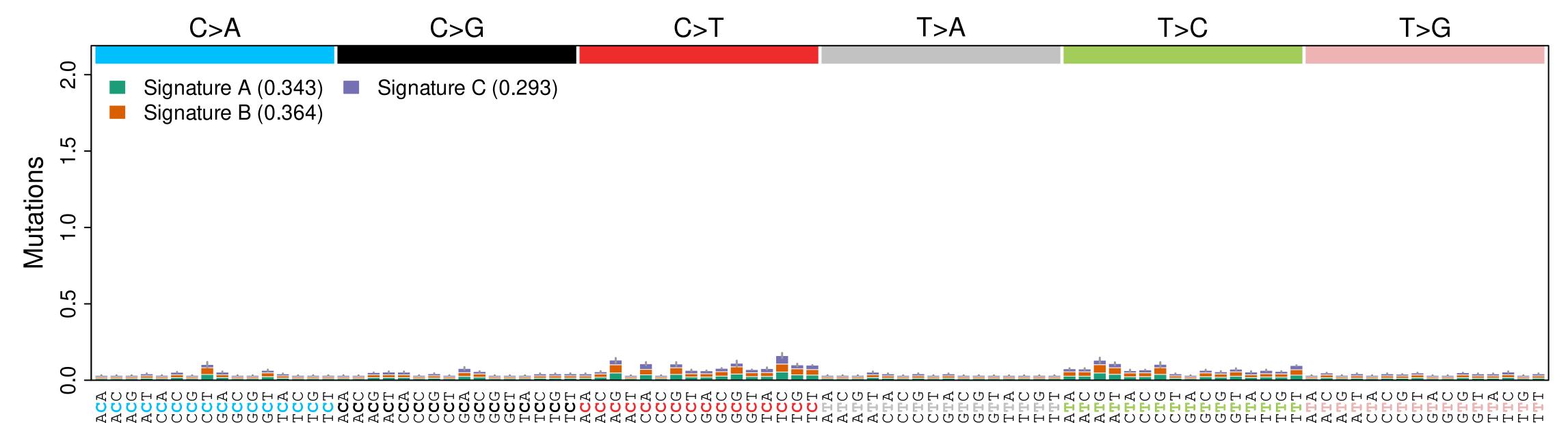
Reconstructed spectrum (cosine similarity = 0.193)



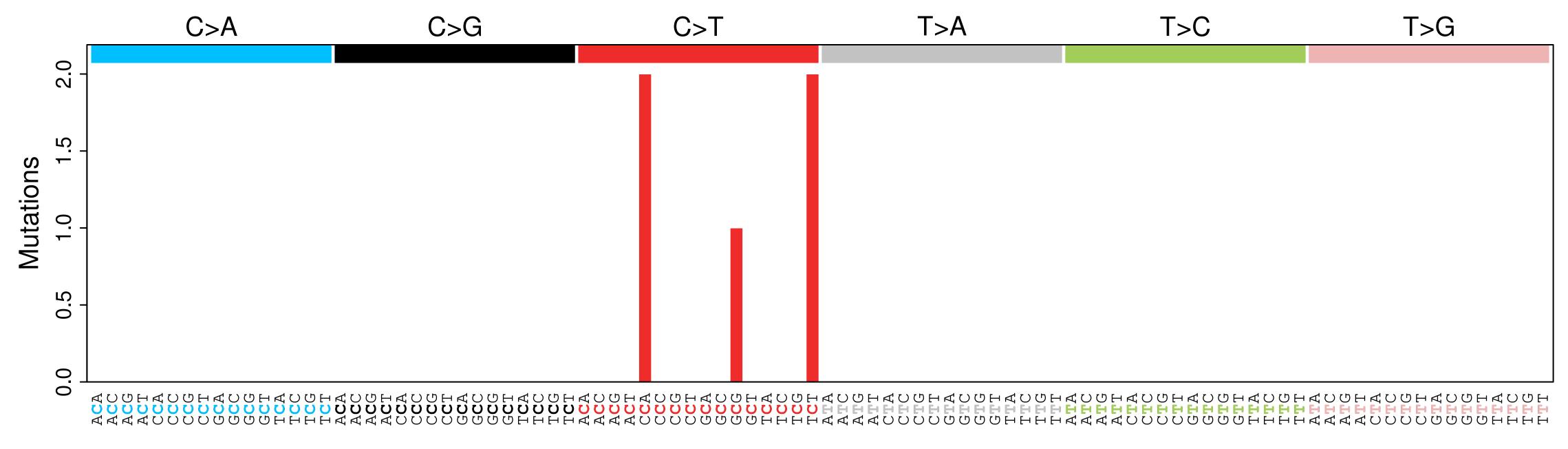
CATD0449a (6 mutations)



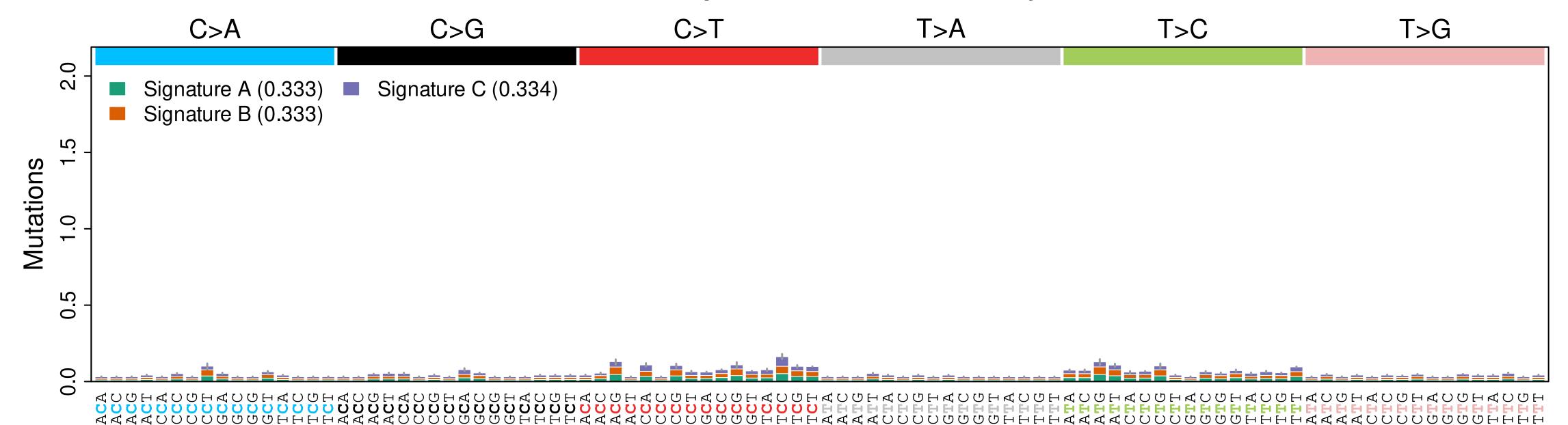
Reconstructed spectrum (cosine similarity = 0.333)



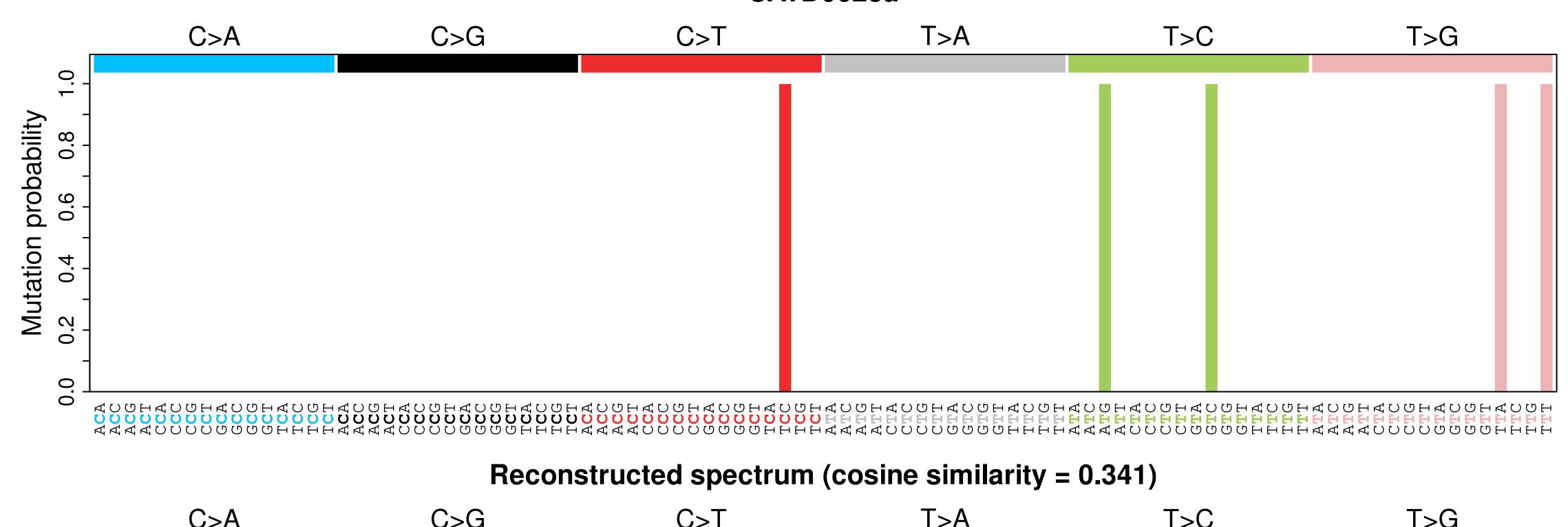
CATD0617a (5 mutations)

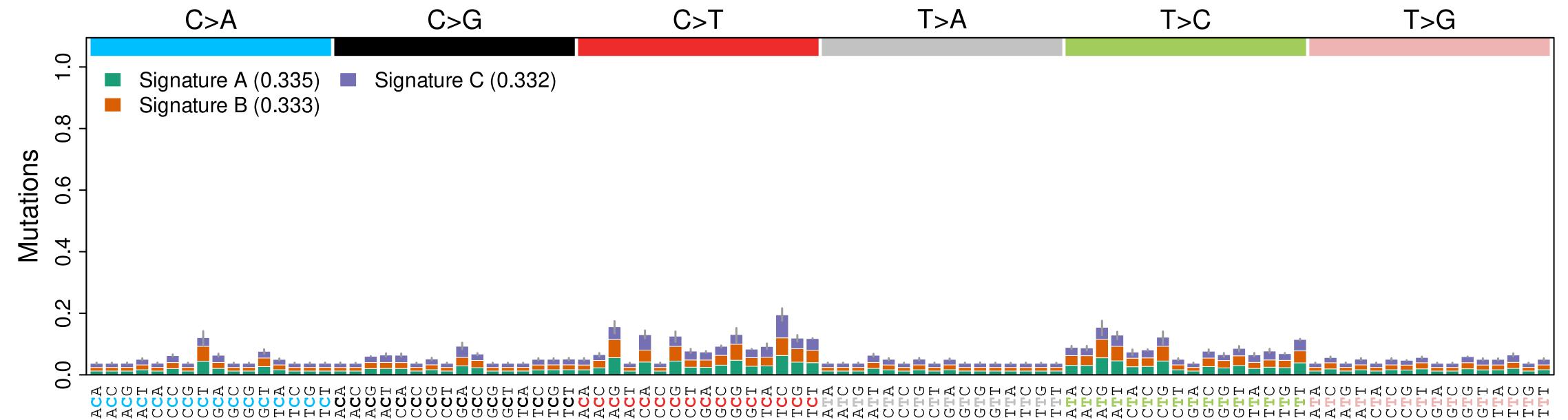


Reconstructed spectrum (cosine similarity = 0.303)



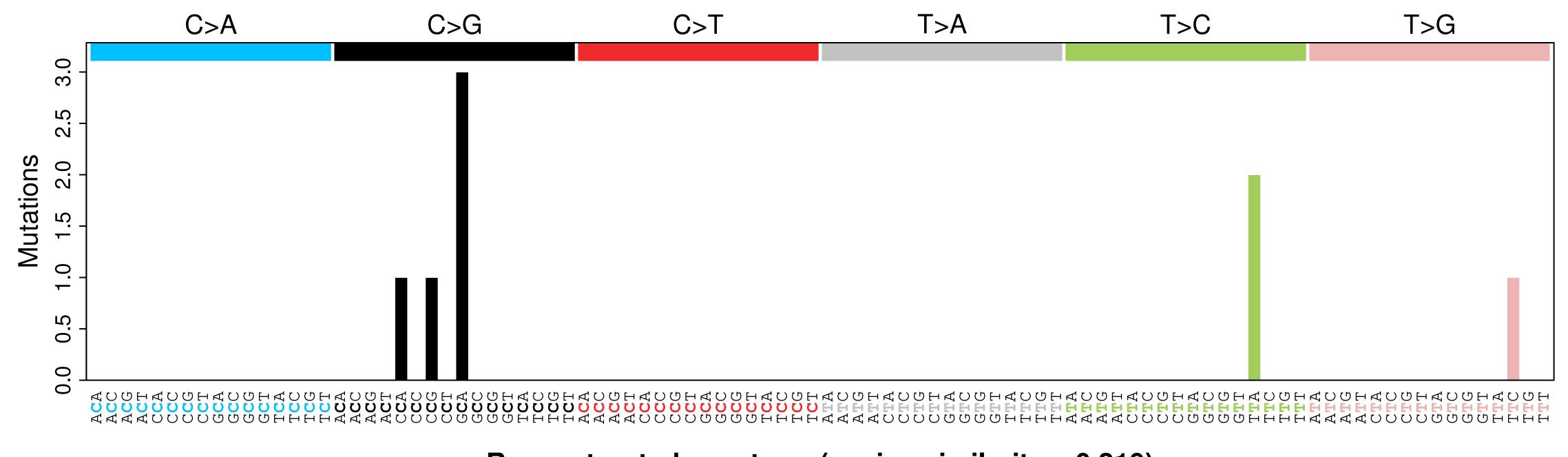
CATD0623a

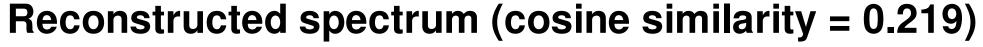


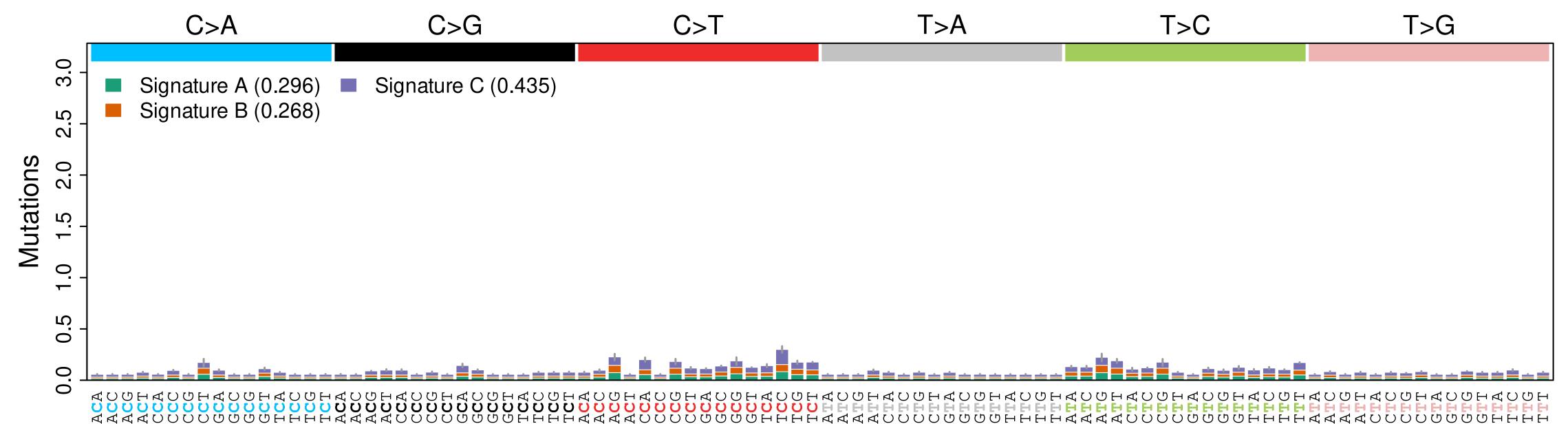


CATD0456a (2 mutations) T>G C>A C>G C>T T>A T>C 2.0 5 Mutations 0.5 0.0 **Reconstructed spectrum (cosine similarity = 0.18)** C>G T>A T>C T>G C>A C>T 2.0 Signature A (0.348) Signature C (0.29) Signature B (0.362) 5 Mutations 5 0

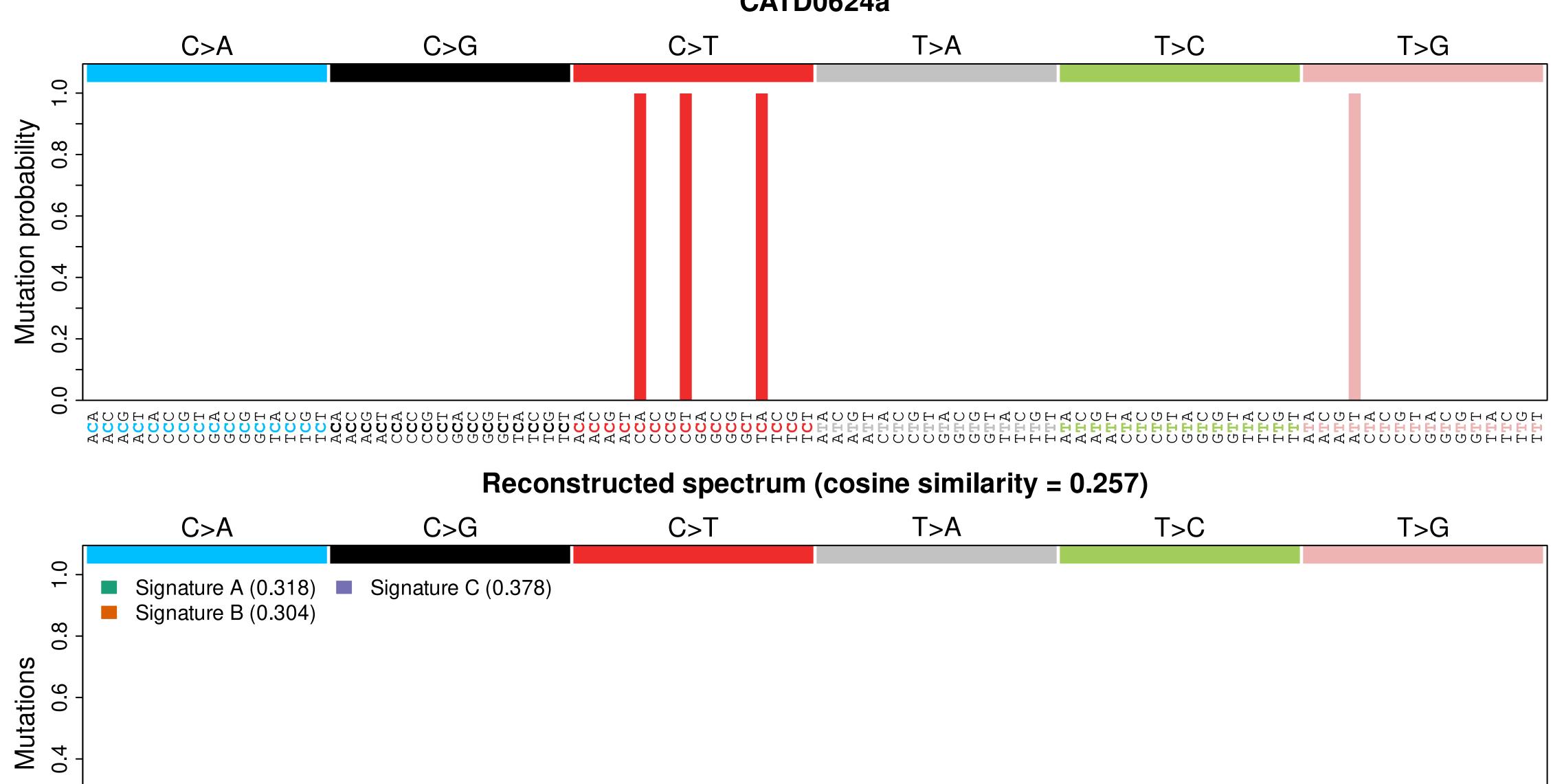
CATD0618a (8 mutations)







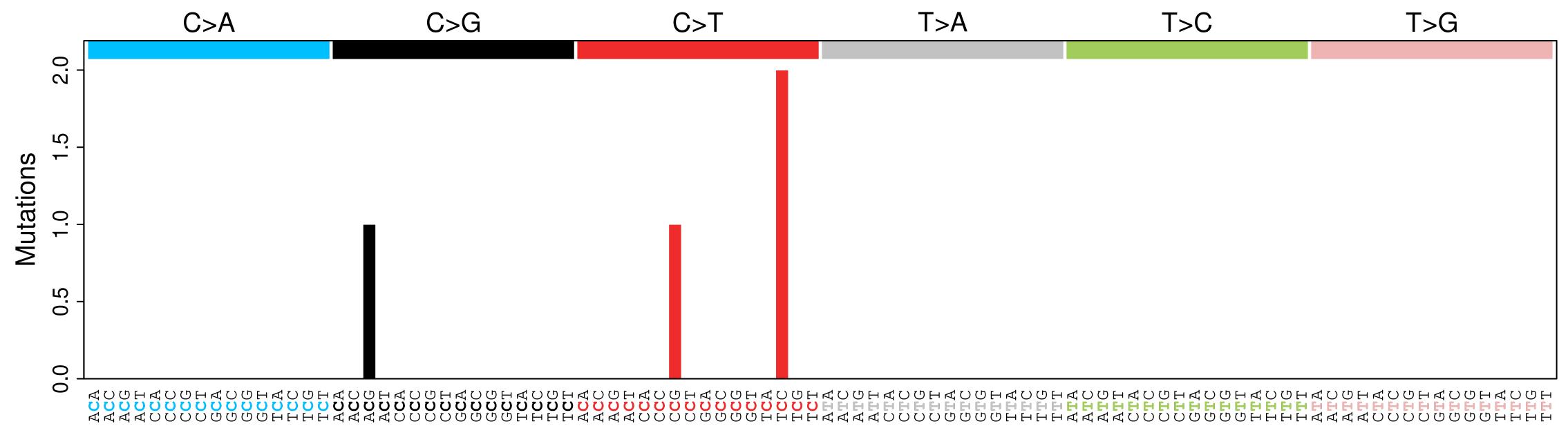
CATD0624a



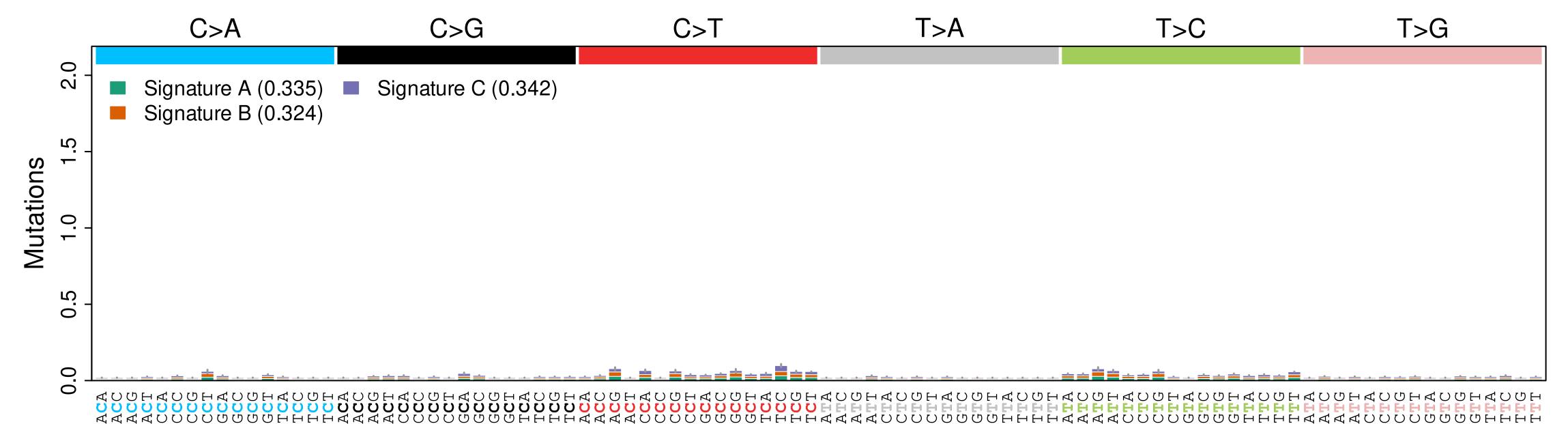
 \mathcal{O} 0

CATD0460a (6 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 = 0.356)** C>A C>G T>A T>C T>G C>T 2.0 Signature A (0.319) Signature C (0.376) Signature B (0.305) 5 Mutations 2 0

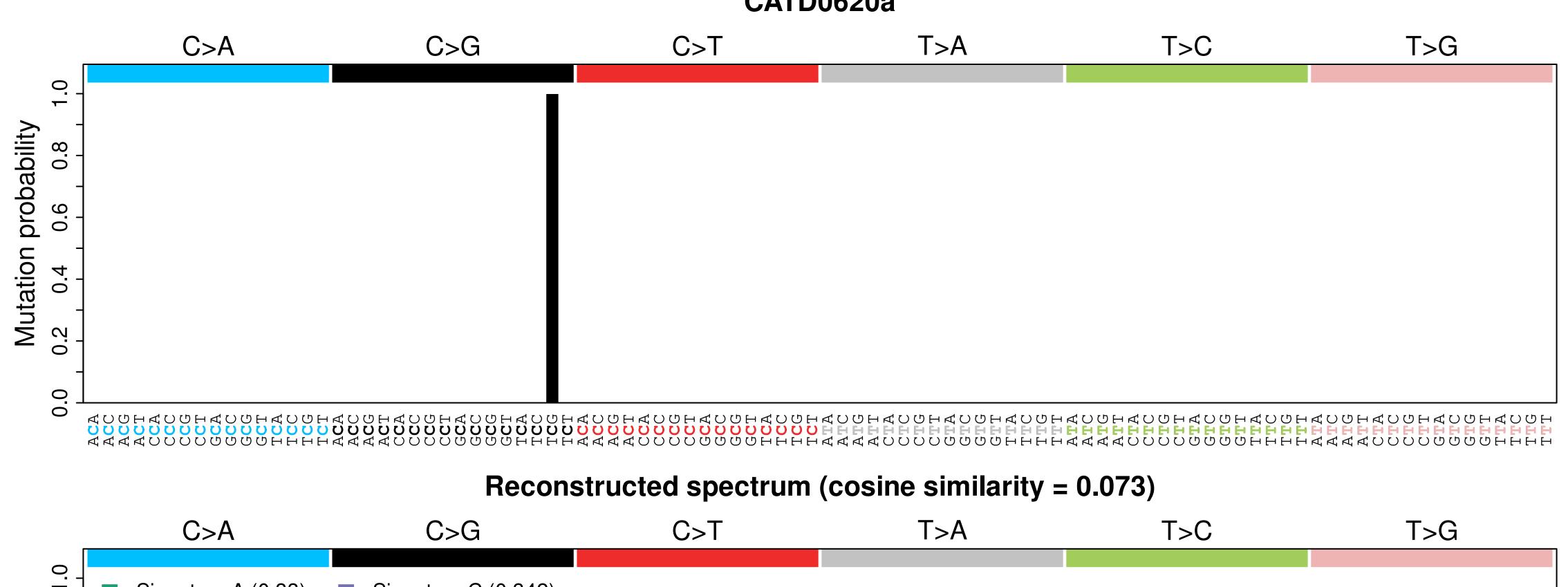
CATD0448a (4 mutations)

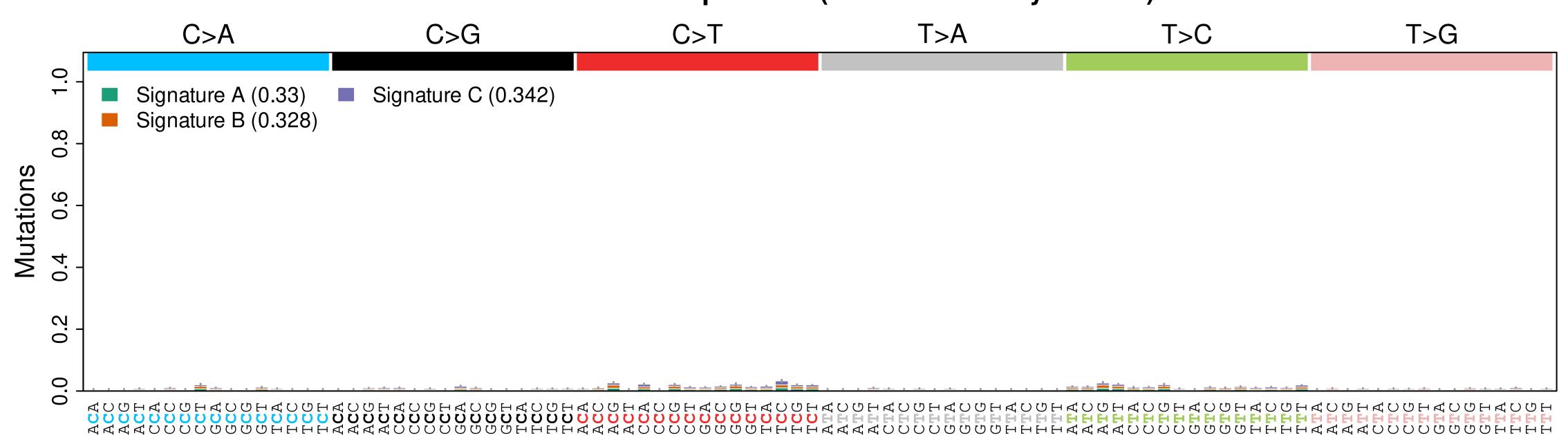


Reconstructed spectrum (cosine similarity = 0.341)

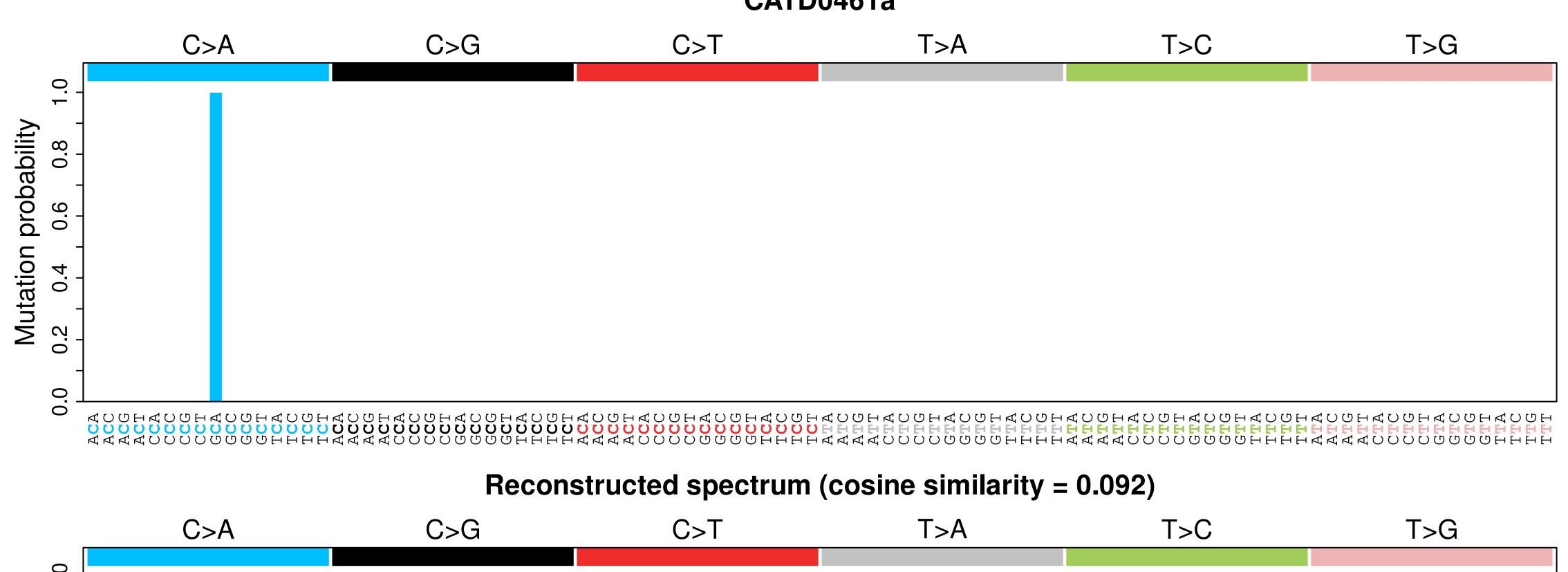


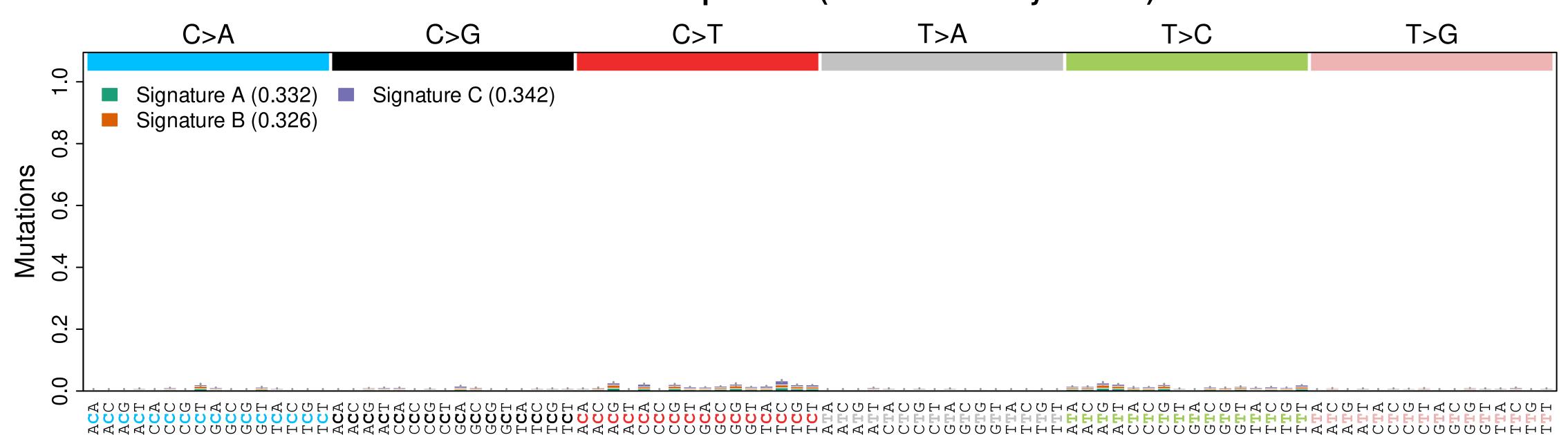




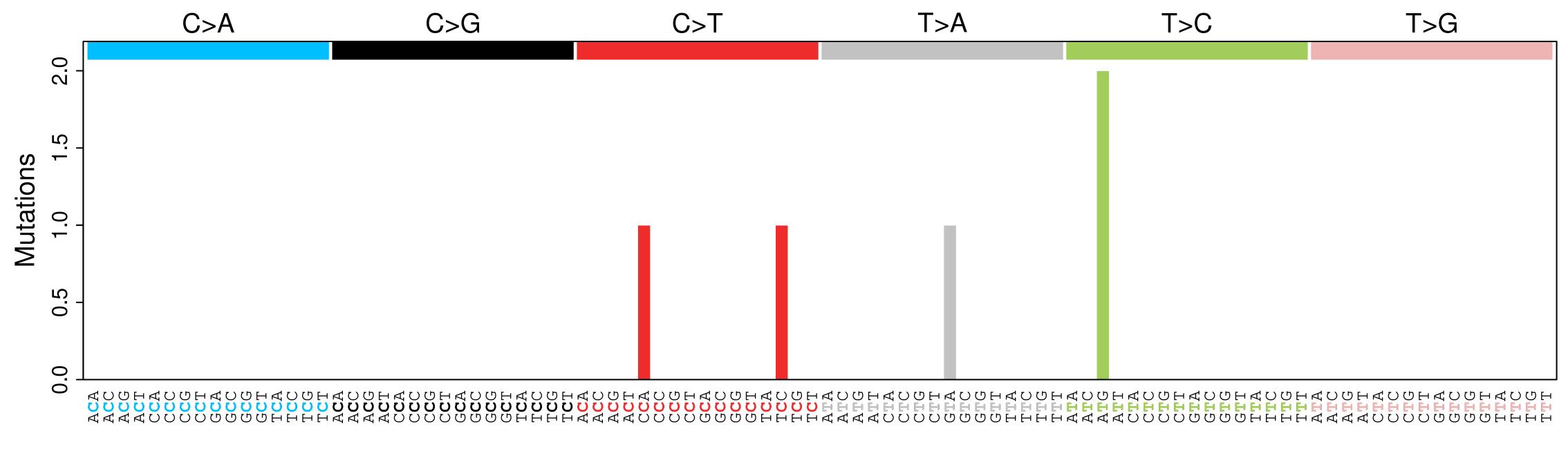




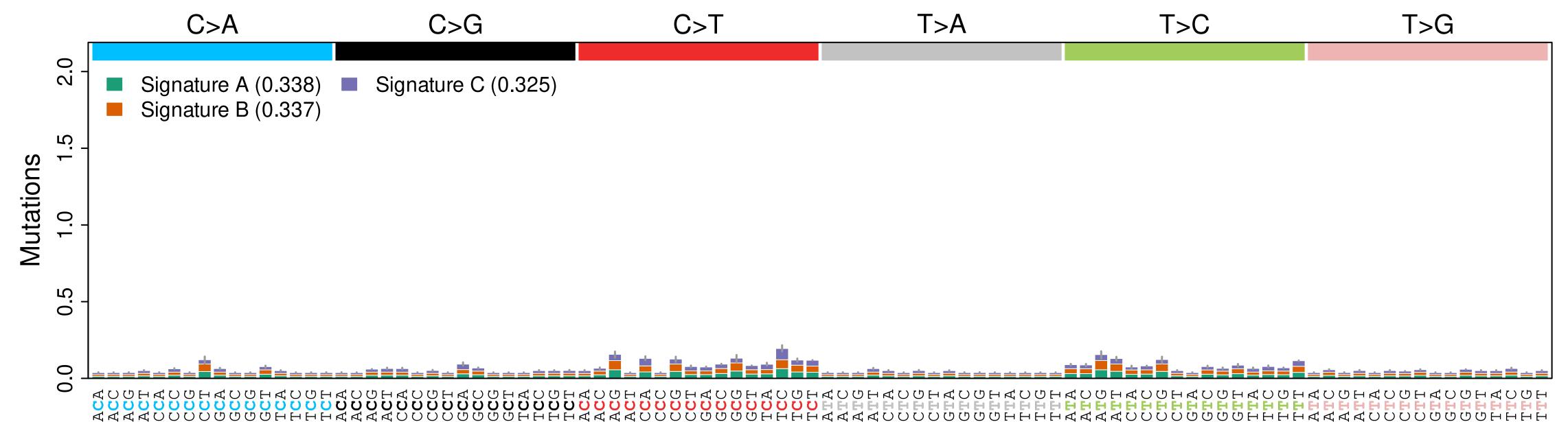




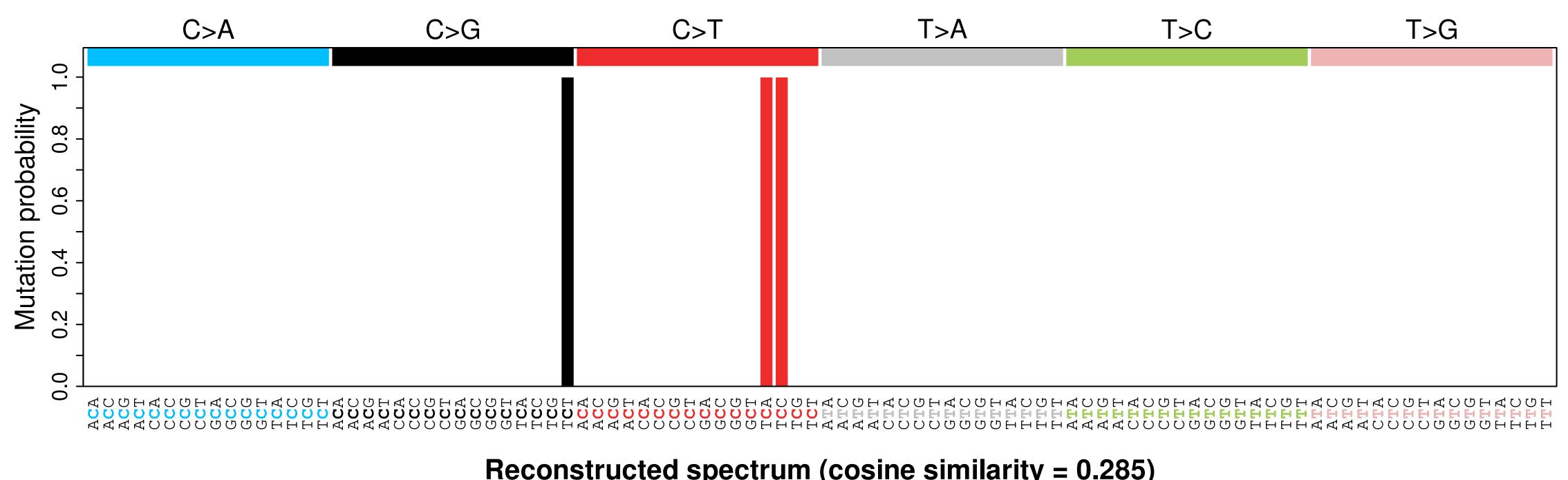
CATD0625a (5 mutations)

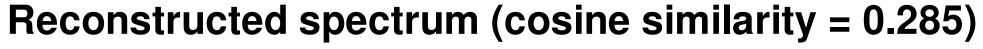


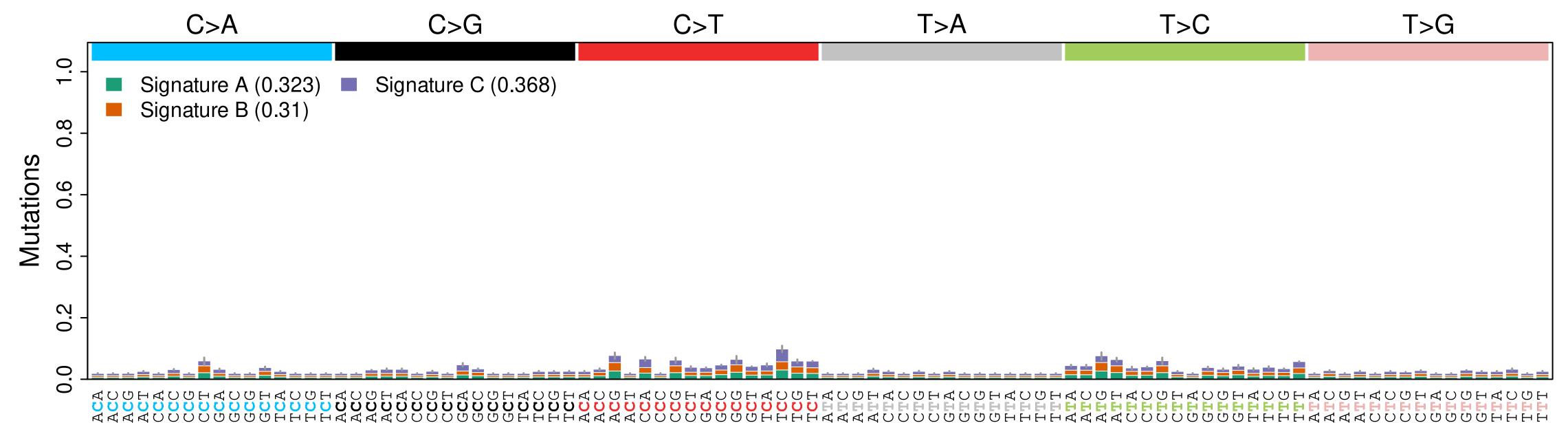
Reconstructed spectrum (cosine similarity = 0.375)











CATD0613a (2 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 = 0.188) C>A C>G T>A T>C T>G C>T 2.0 Signature A (0.342) Signature C (0.308) Signature B (0.35) 5 Mutations 5 0



