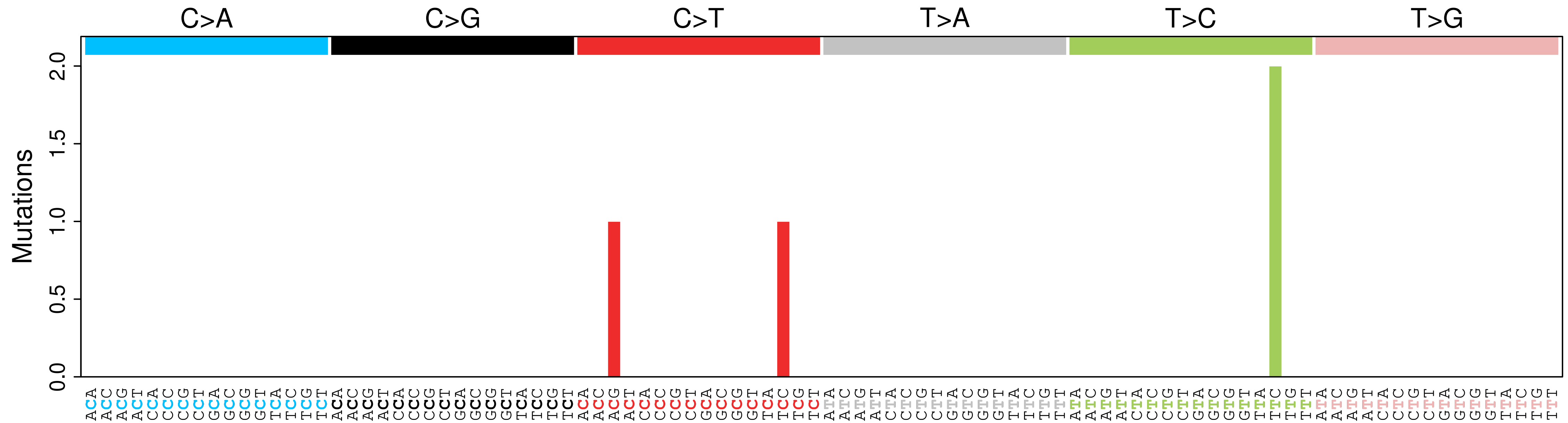
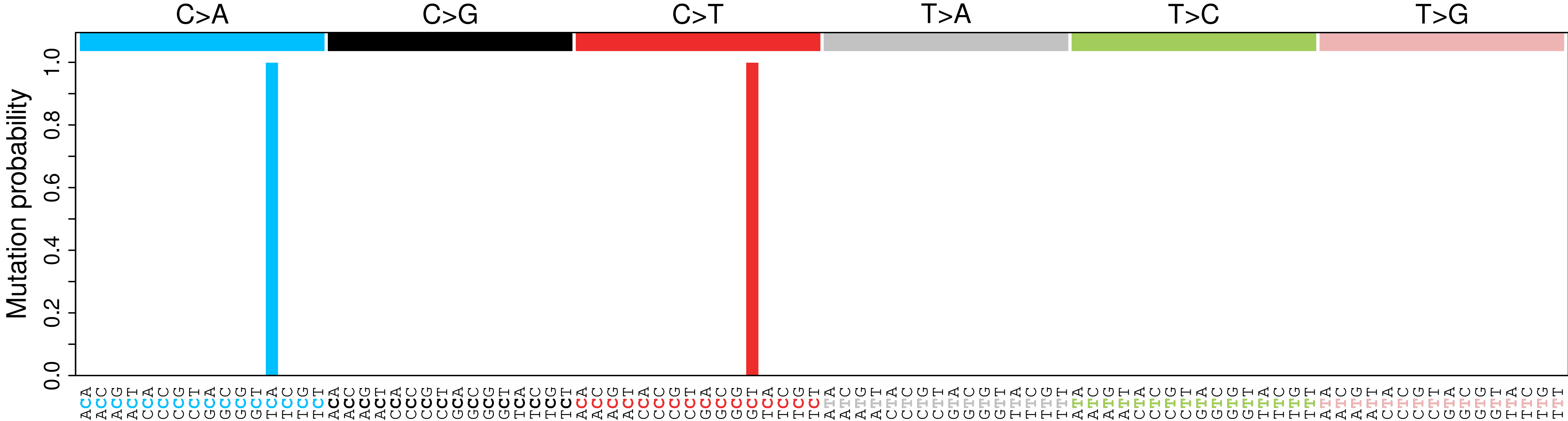


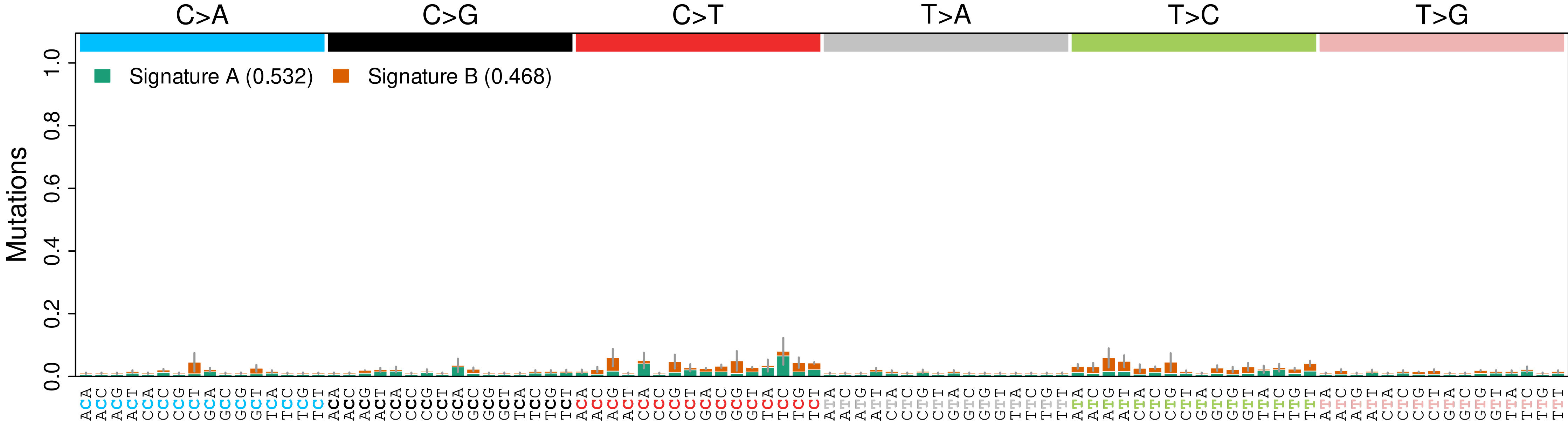
CATD0453a (4 mutations)



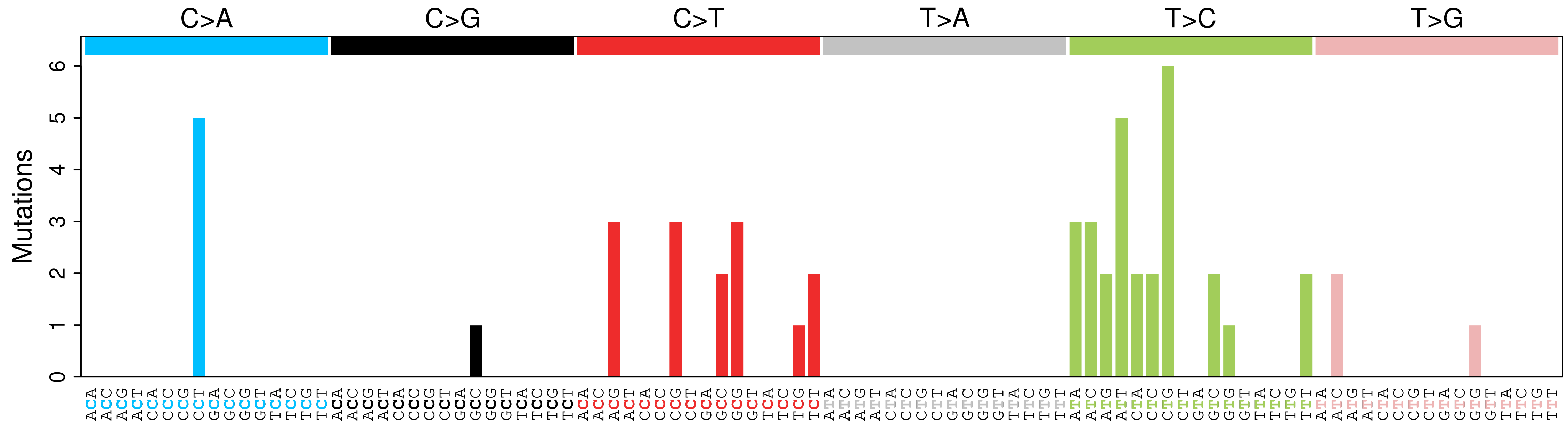
CATD0450a



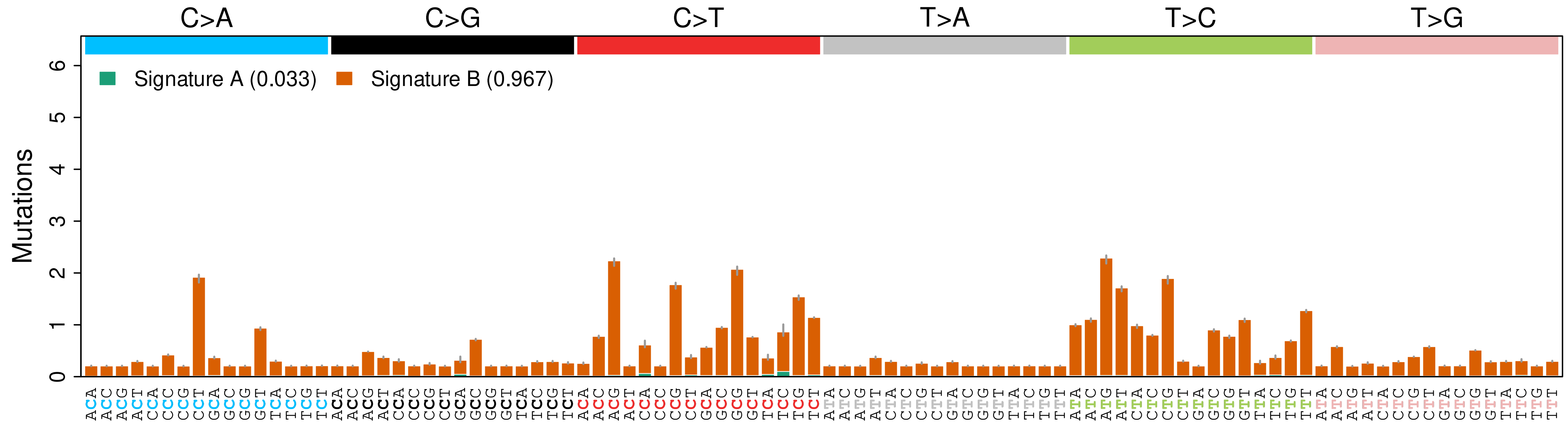
Reconstructed spectrum (cosine similarity = 0.129)



CATD0465a (51 mutations)



Reconstructed spectrum (cosine similarity = 0.821)



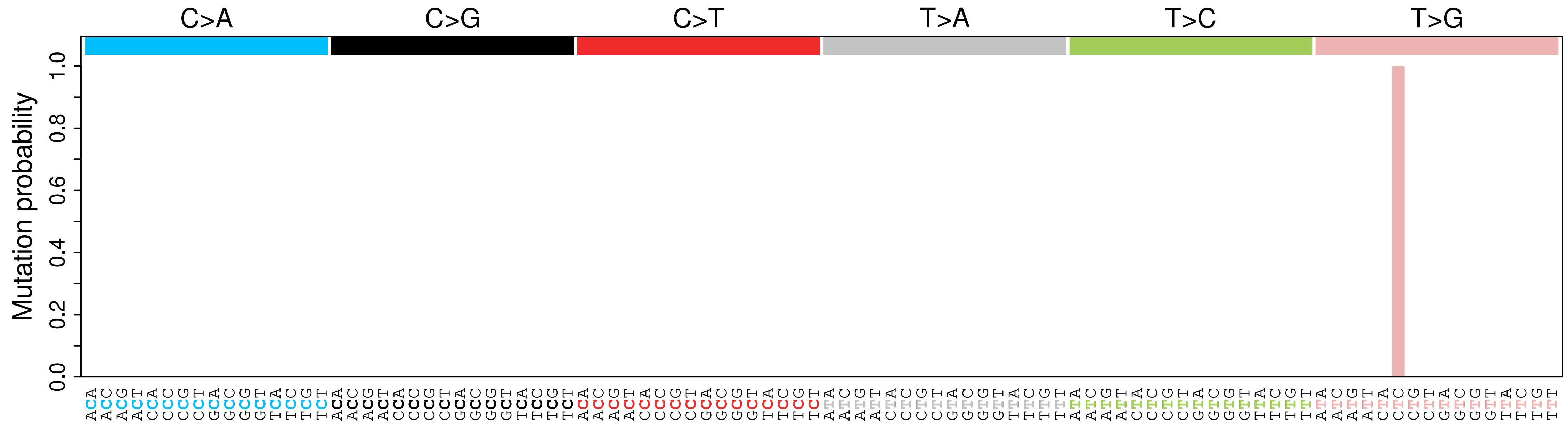
CATD0458a



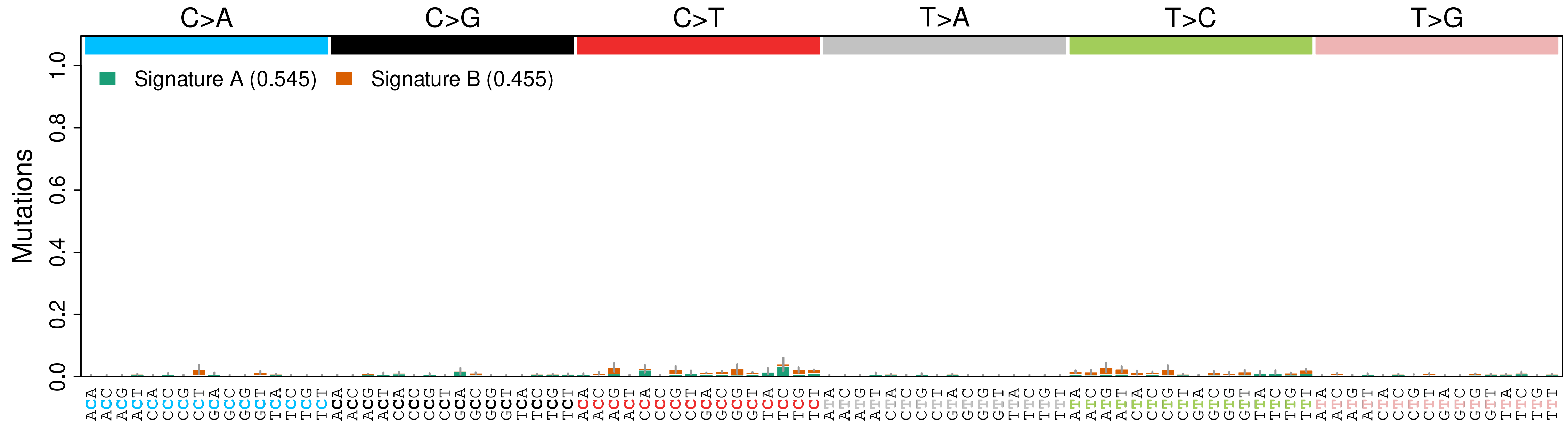
Reconstructed spectrum (cosine similarity = 0.3)



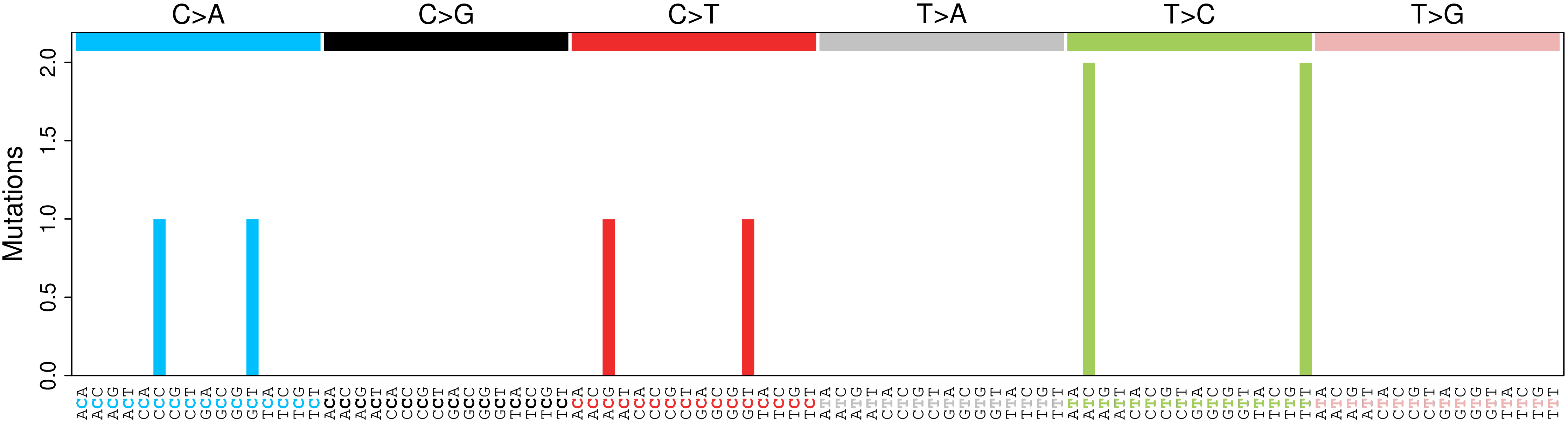
CATD0466a



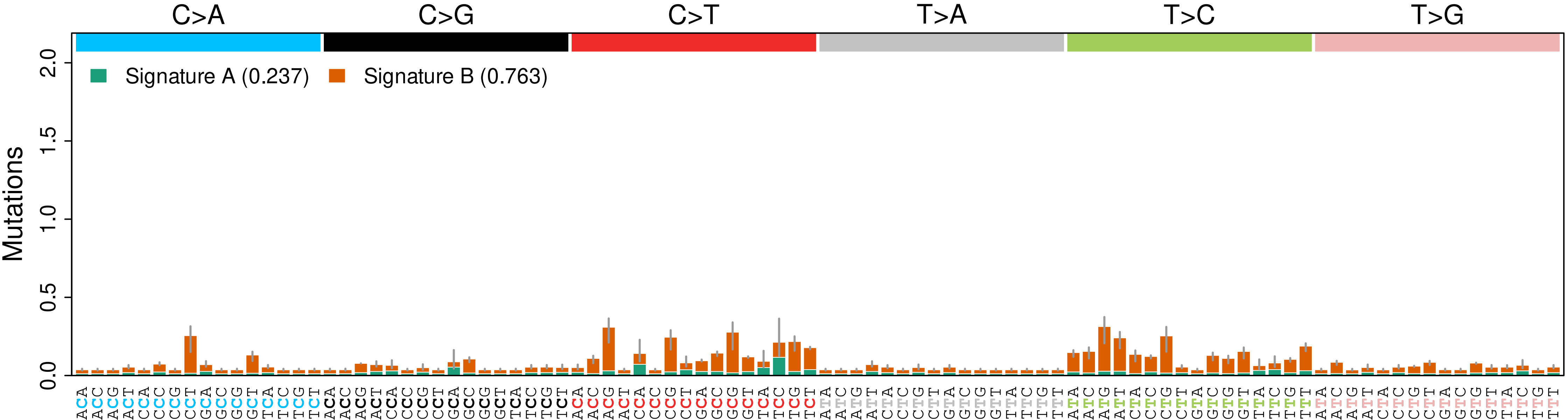
Reconstructed spectrum (cosine similarity = 0.065)



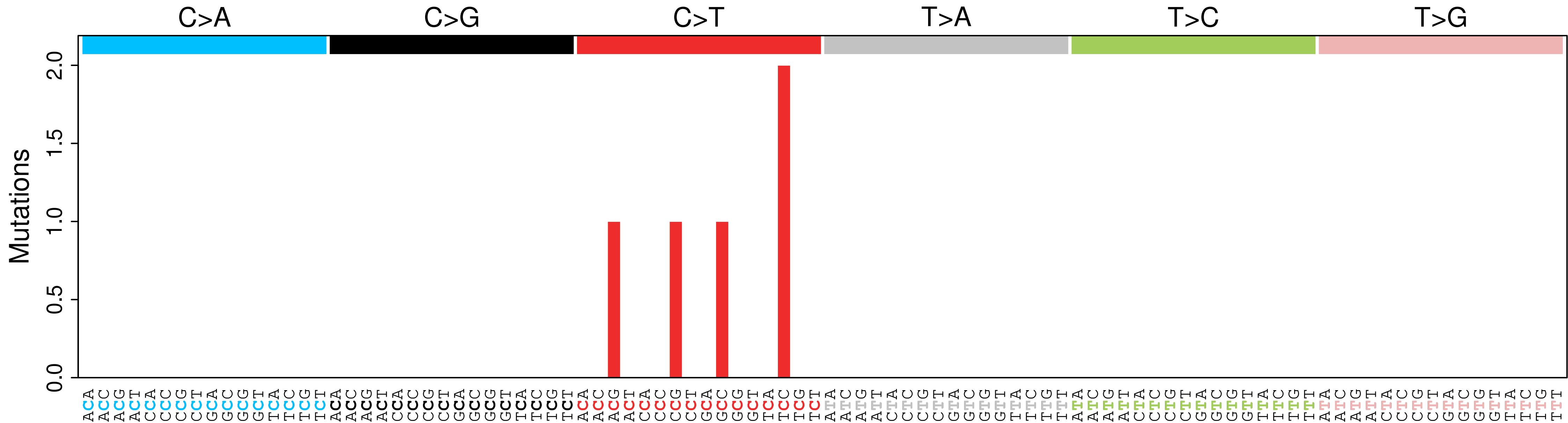
CATD0454a (8 mutations)



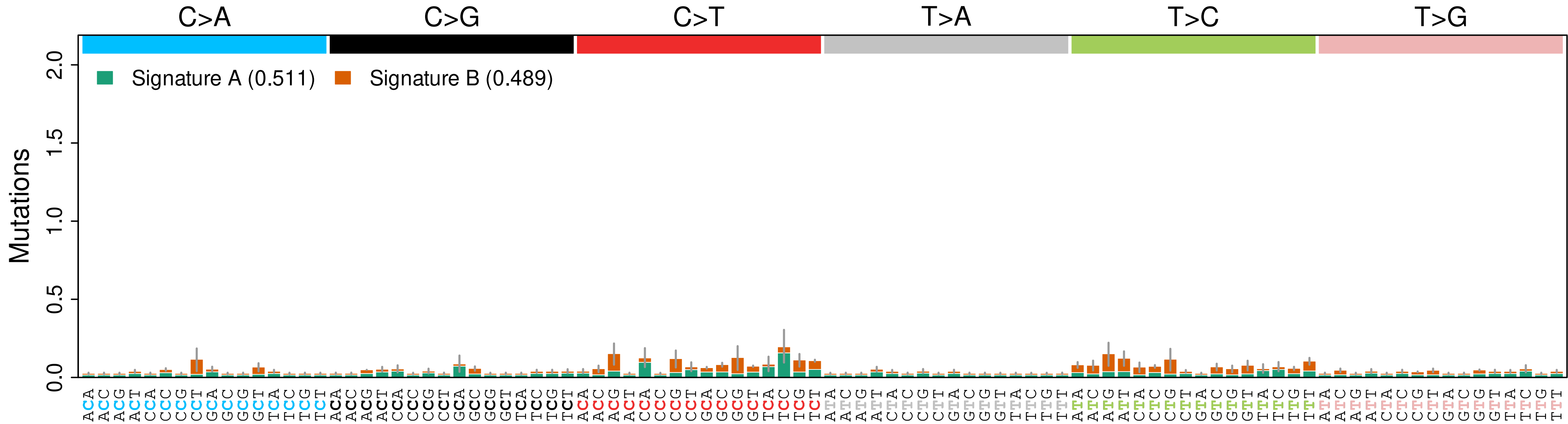
Reconstructed spectrum (cosine similarity = 0.361)



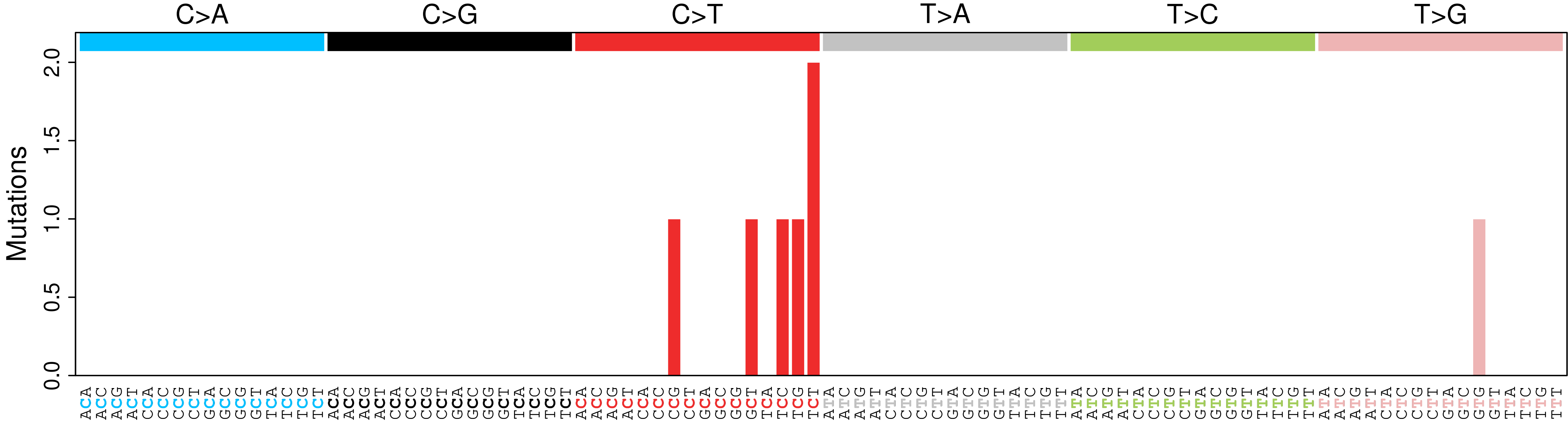
CATD0451a (5 mutations)



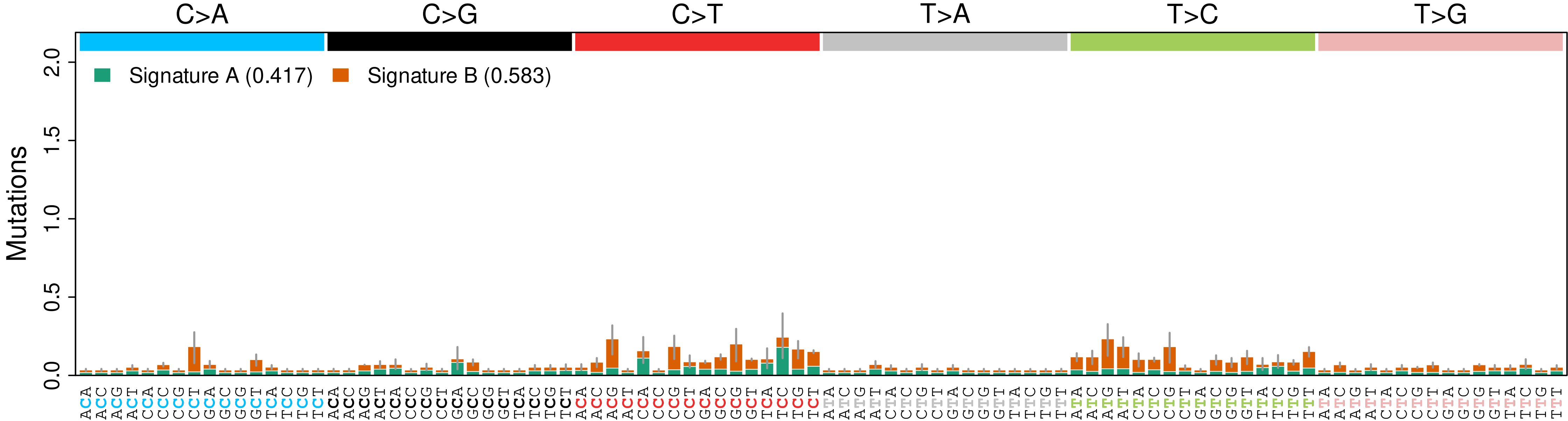
Reconstructed spectrum (cosine similarity = 0.46)



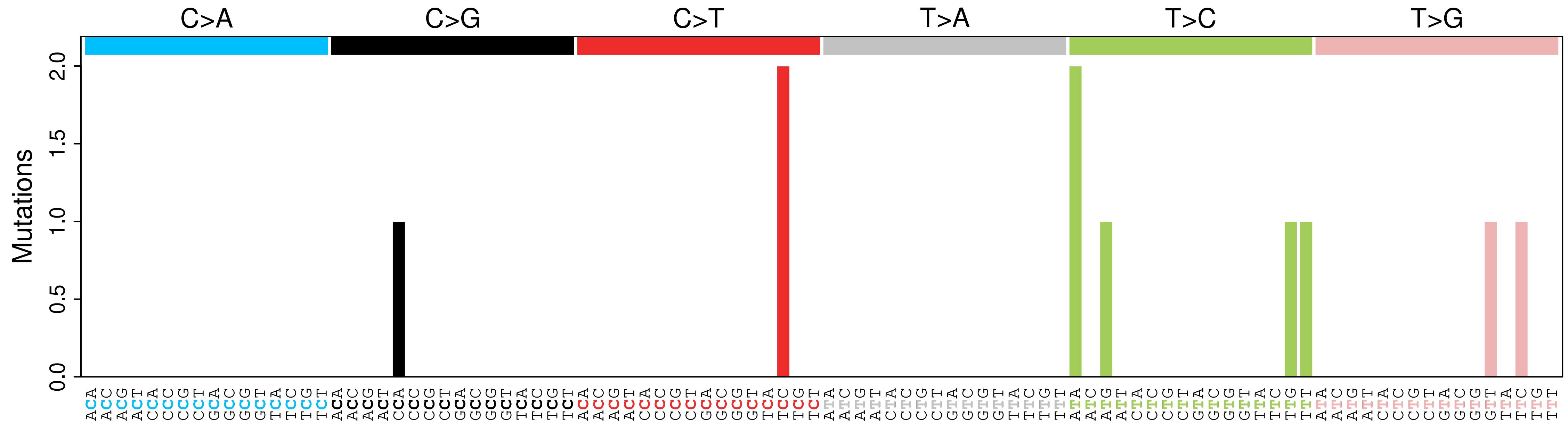
CATD0457a (7 mutations)



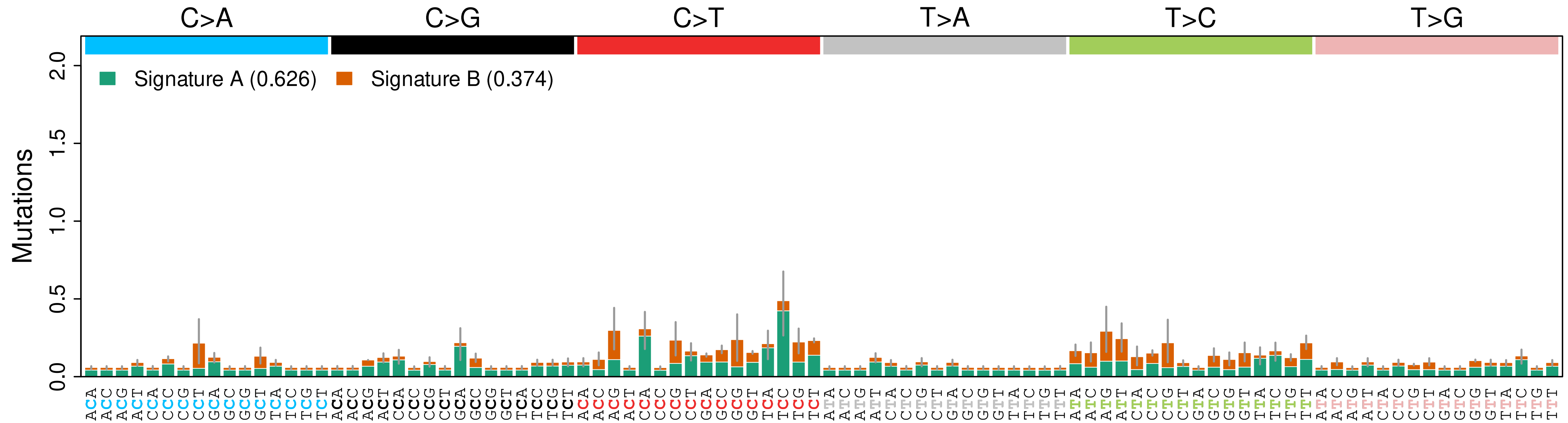
Reconstructed spectrum (cosine similarity = 0.408)



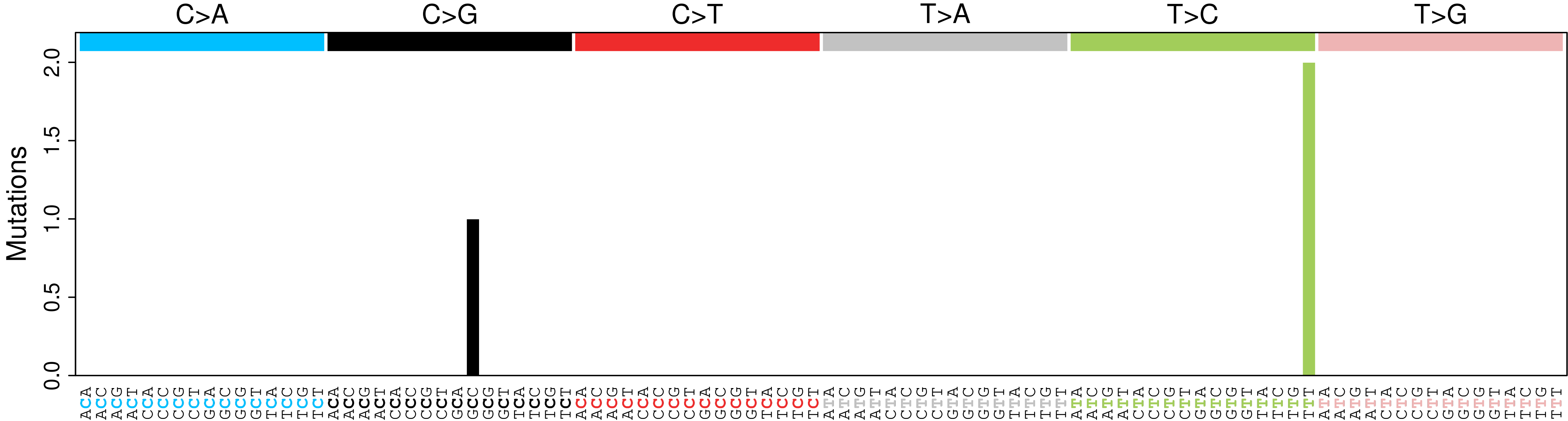
CATD0452a (10 mutations)



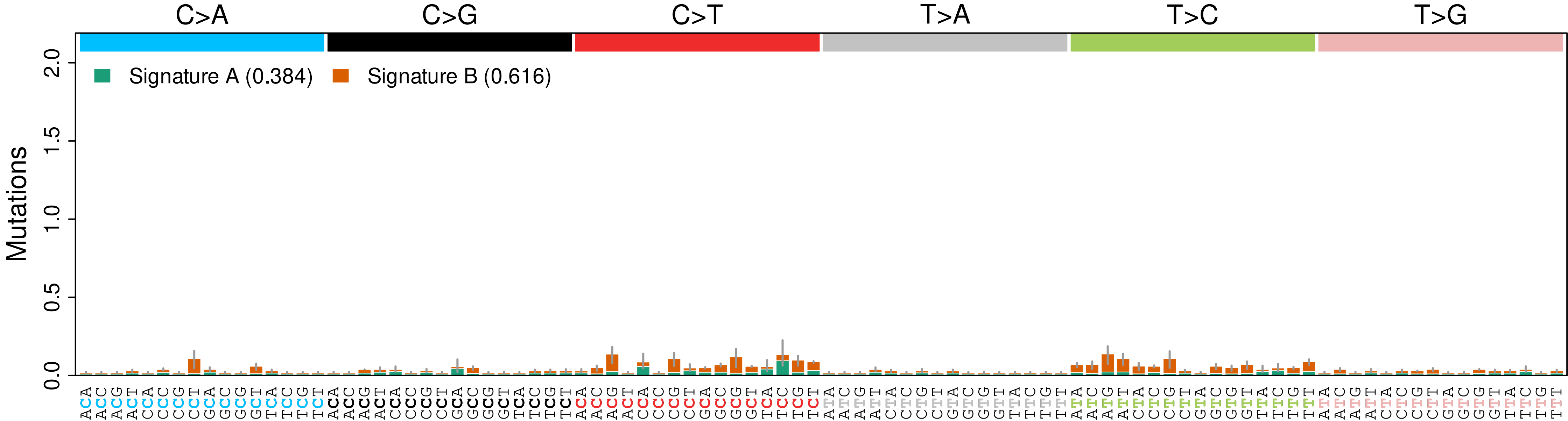
Reconstructed spectrum (cosine similarity = 0.461)



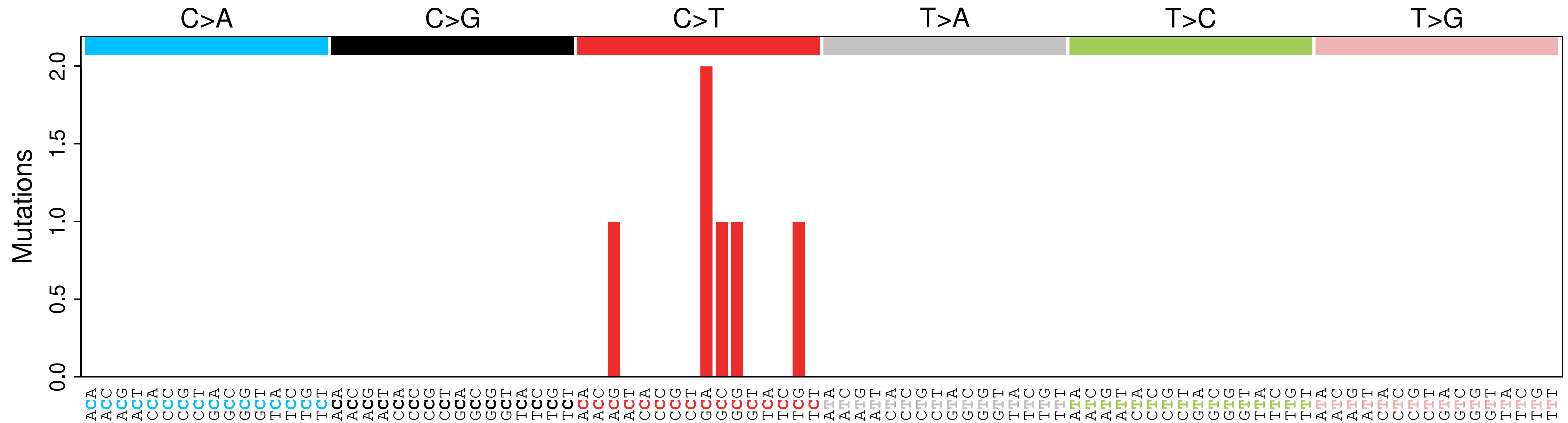
CATD0447a (3 mutations)



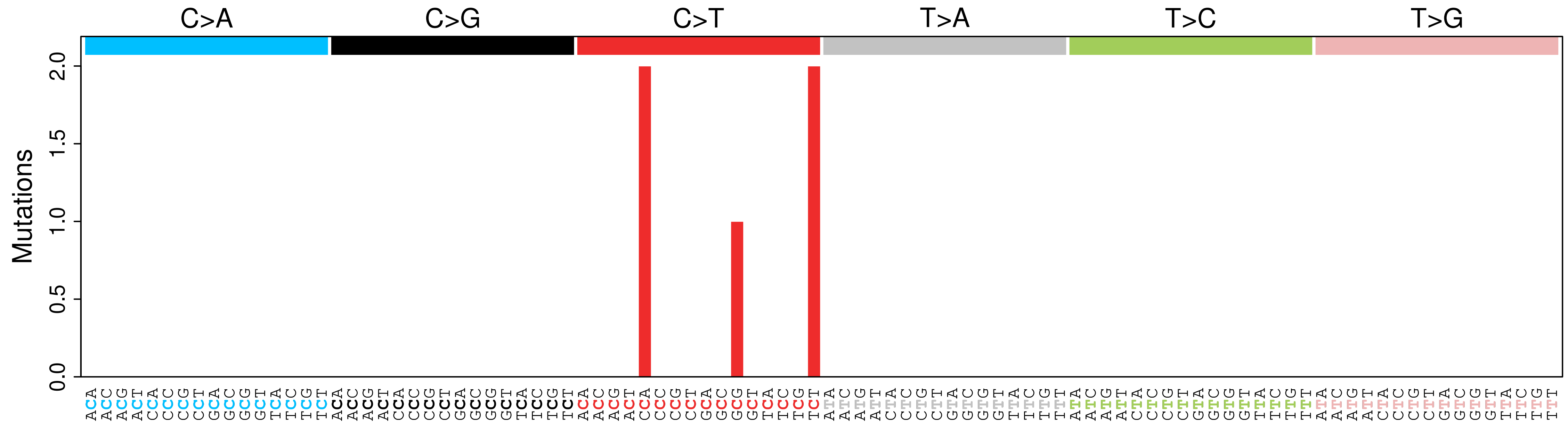
Reconstructed spectrum (cosine similarity = 0.2)



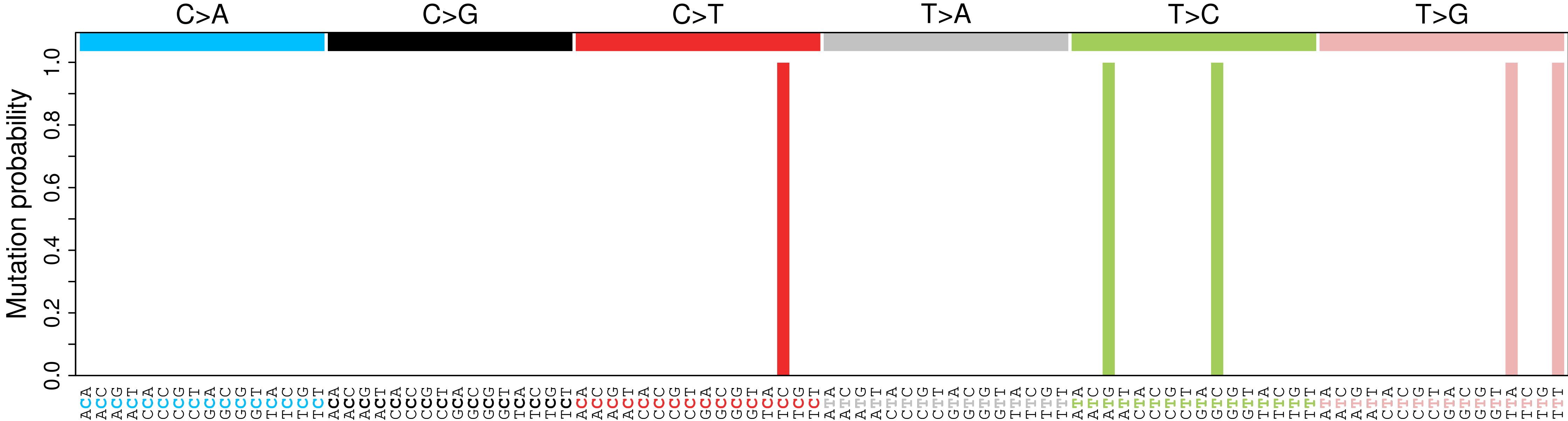
CATD0449a (6 mutations)



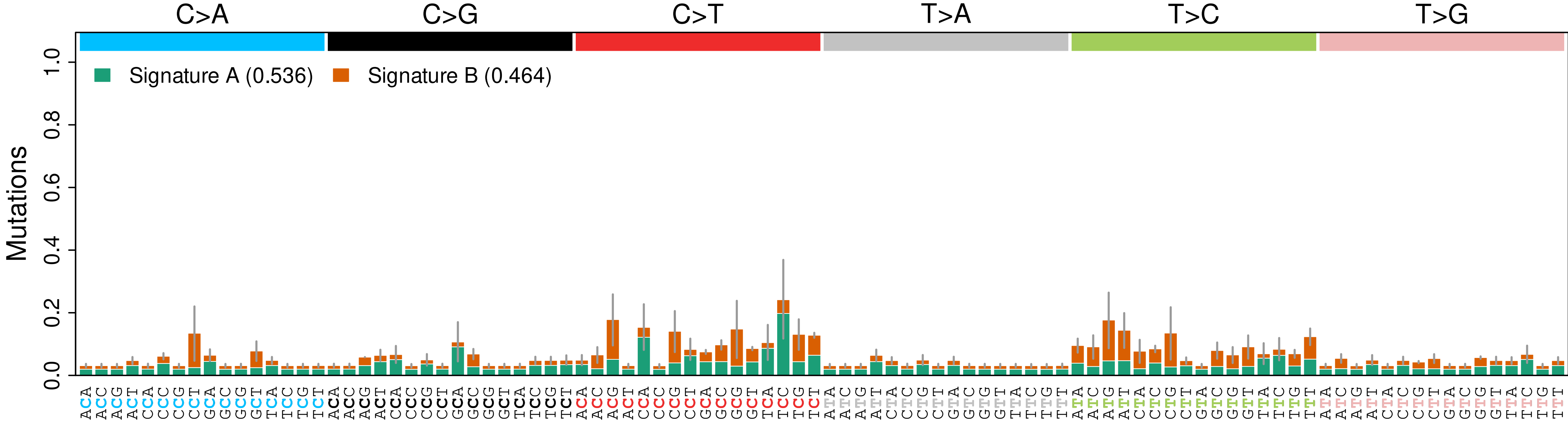
CATD0617a (5 mutations)



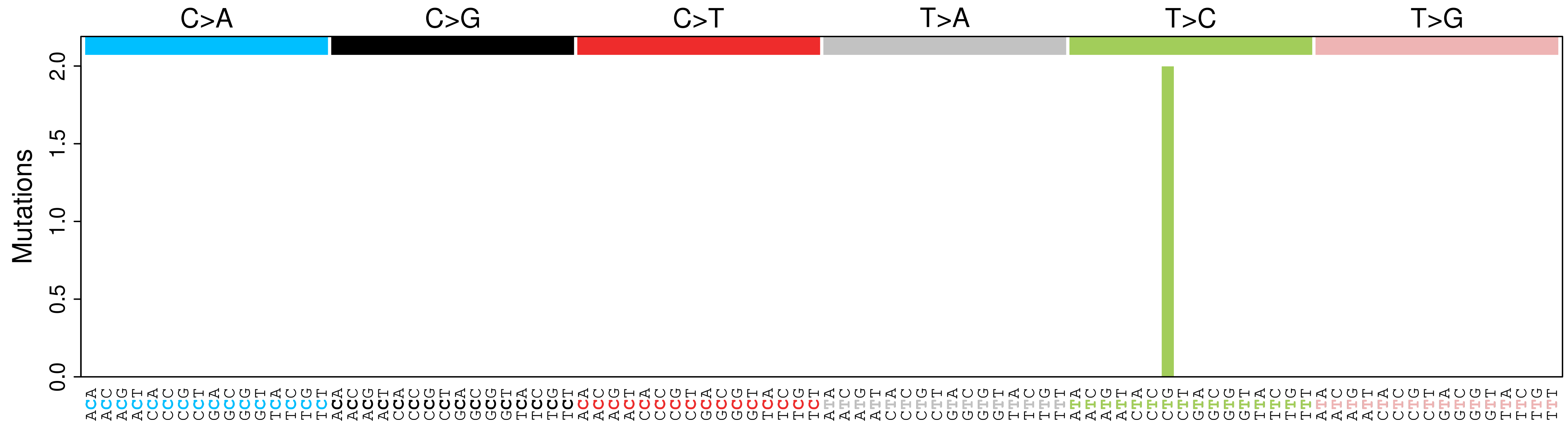
CATD0623a



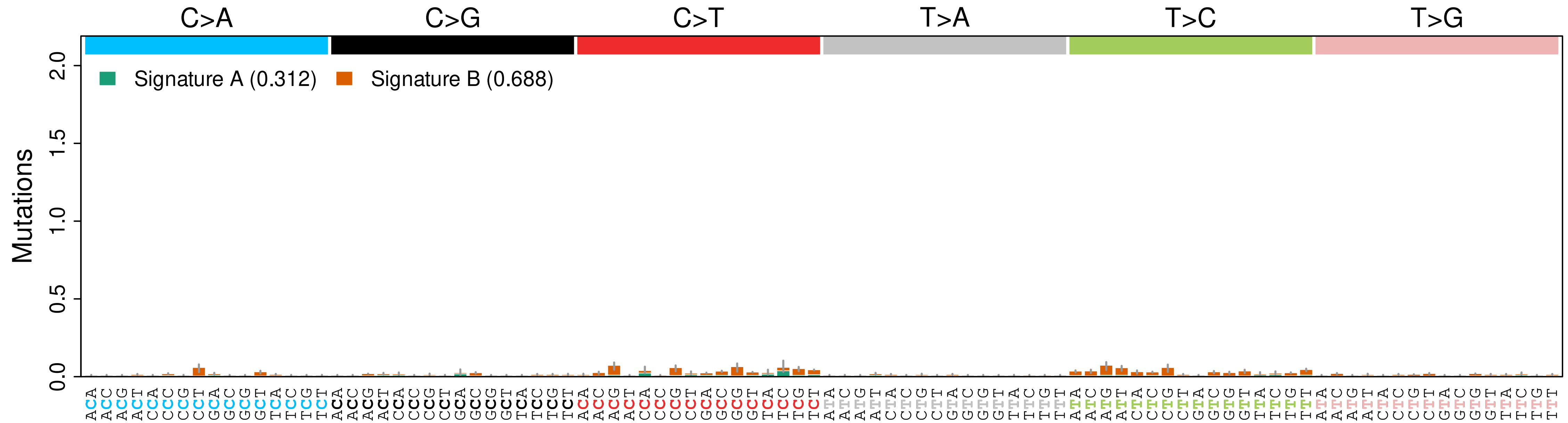
Reconstructed spectrum (cosine similarity = 0.361)



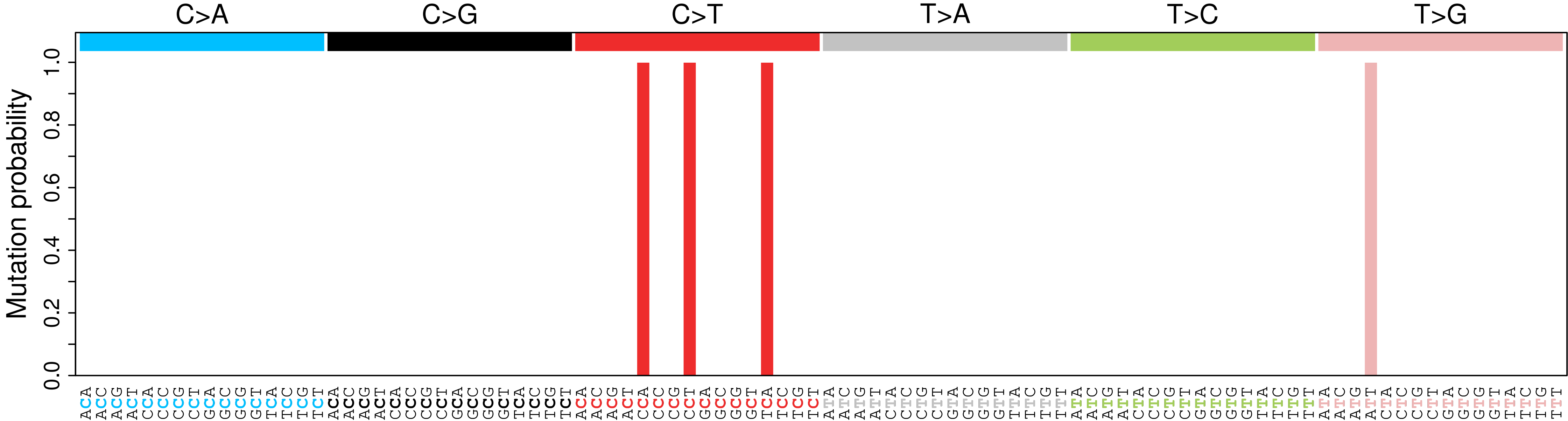
CATD0456a (2 mutations)



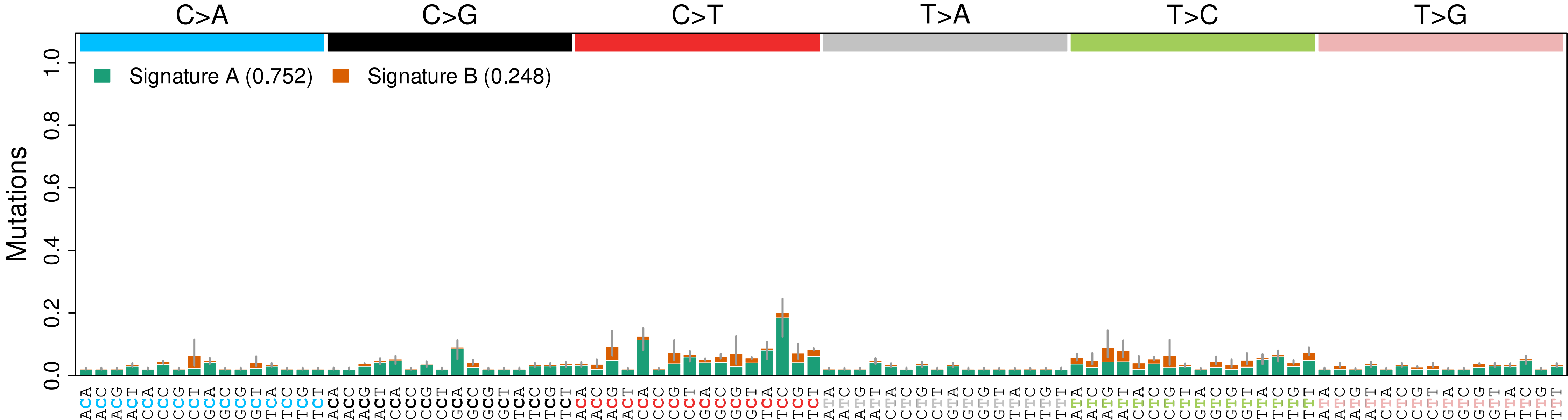
Reconstructed spectrum (cosine similarity = 0.229)



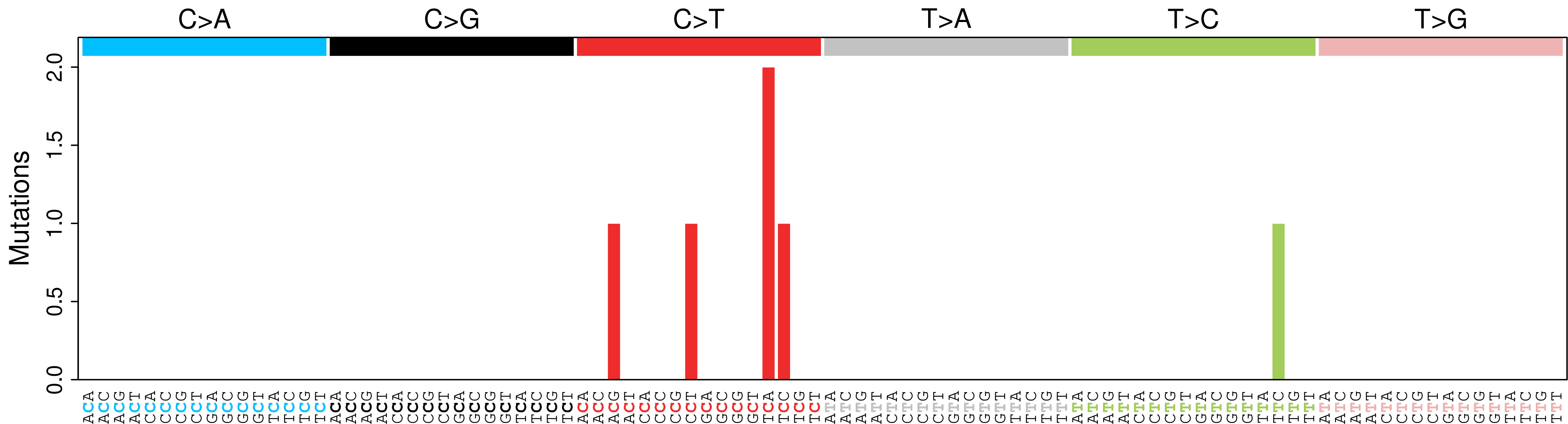
CATD0624a



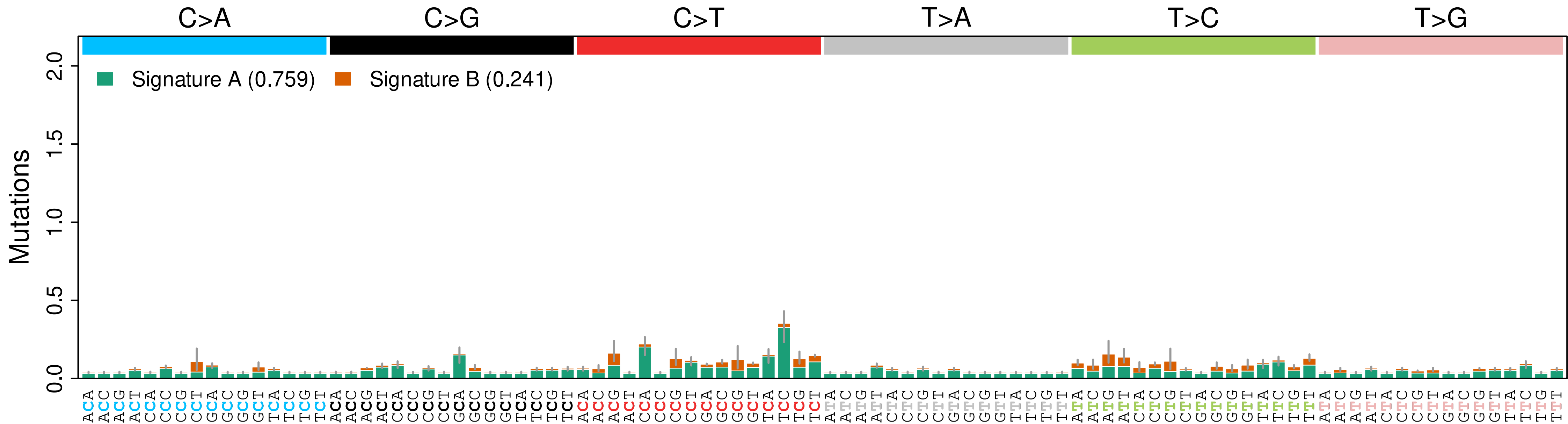
Reconstructed spectrum (cosine similarity = 0.326)



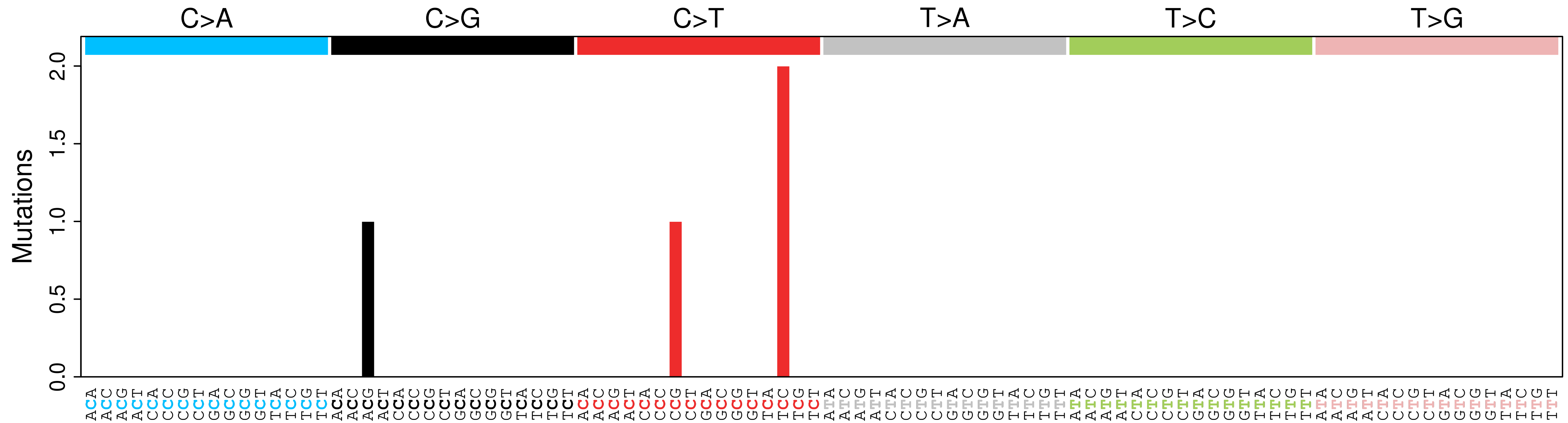
CATD0460a (6 mutations)



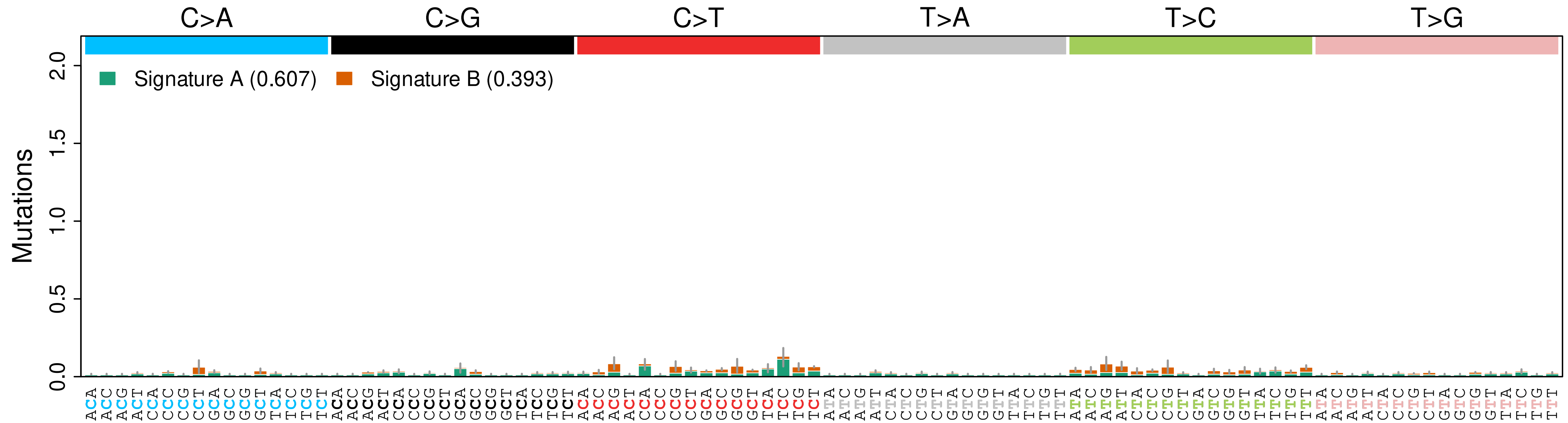
Reconstructed spectrum (cosine similarity = 0.441)



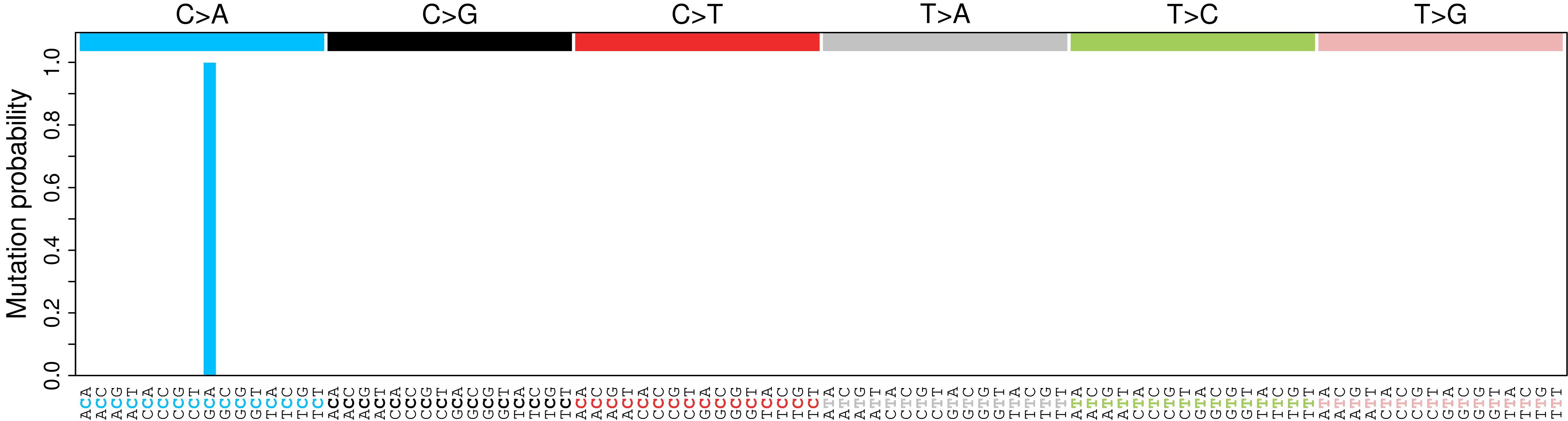
CATD0448a (4 mutations)



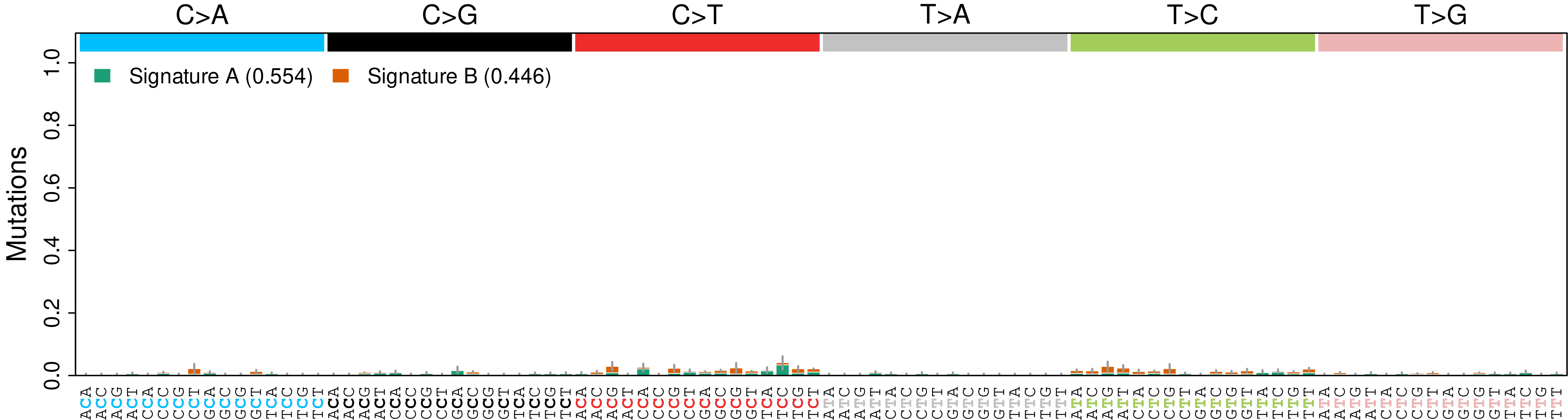
Reconstructed spectrum (cosine similarity = 0.399)



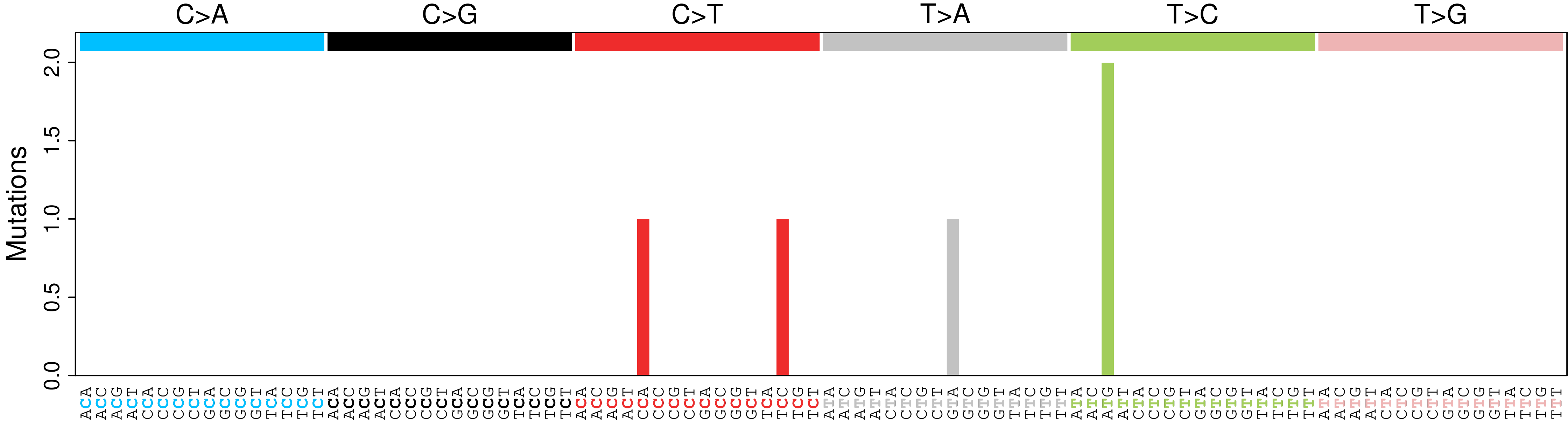
CATD0461a



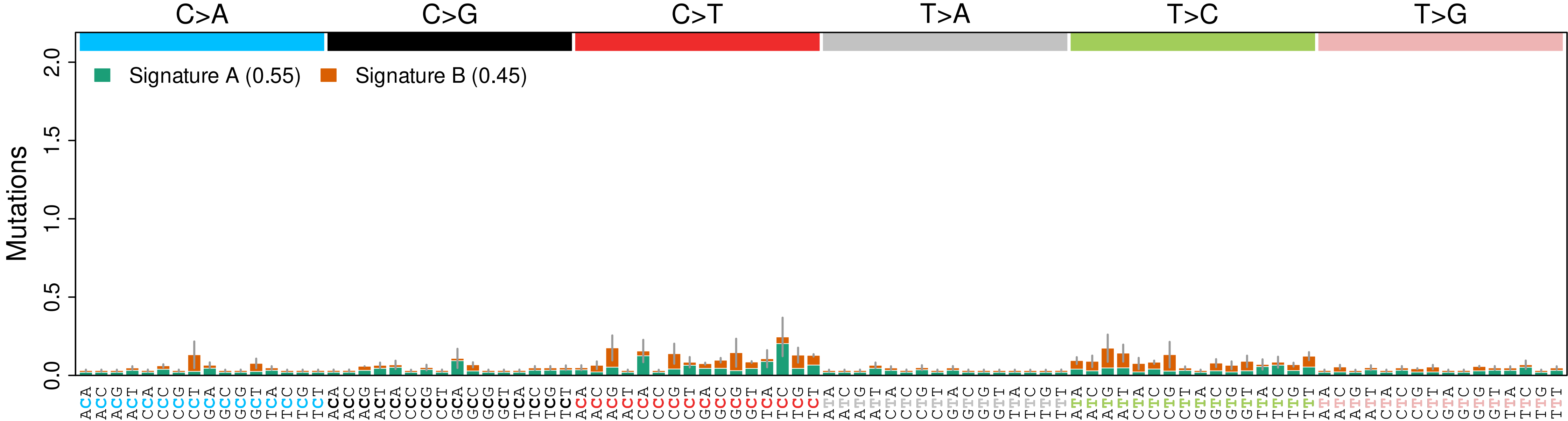
Reconstructed spectrum (cosine similarity = 0.089)



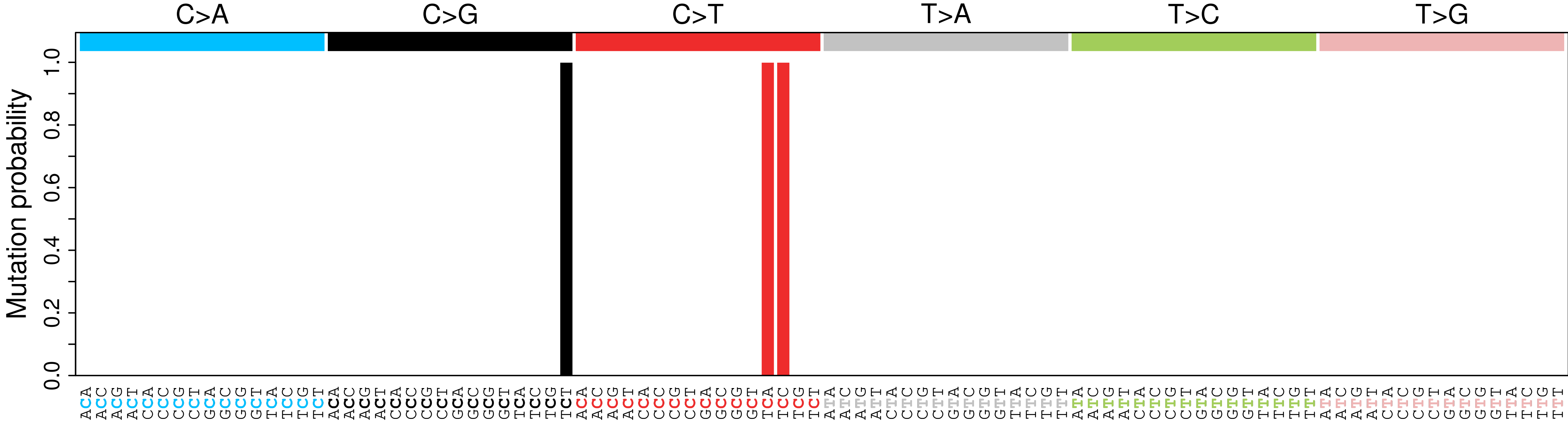
CATD0625a (5 mutations)



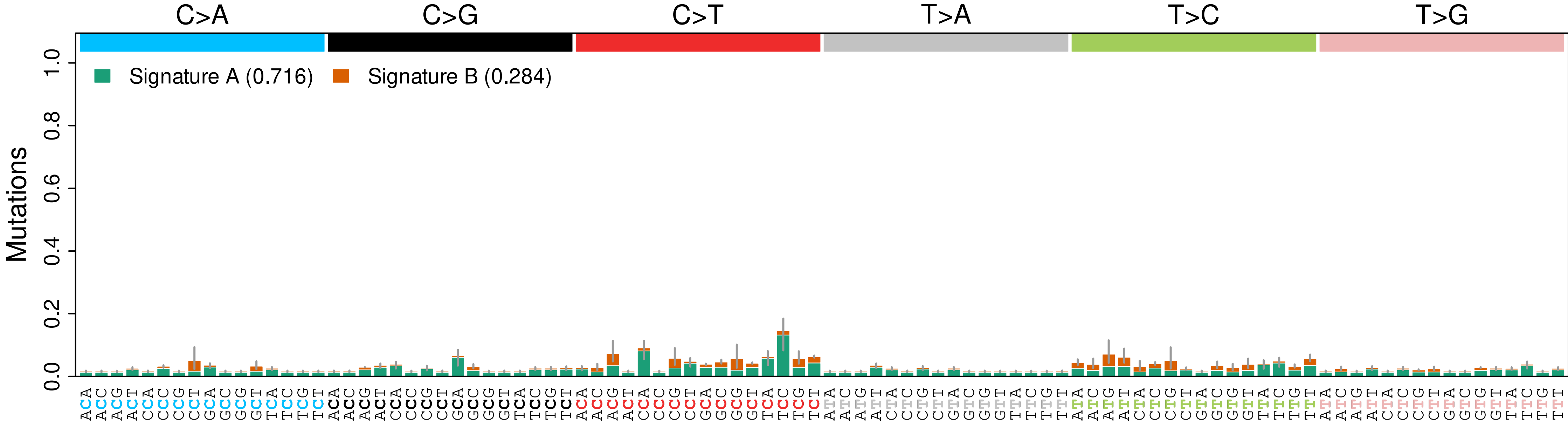
Reconstructed spectrum (cosine similarity = 0.412)



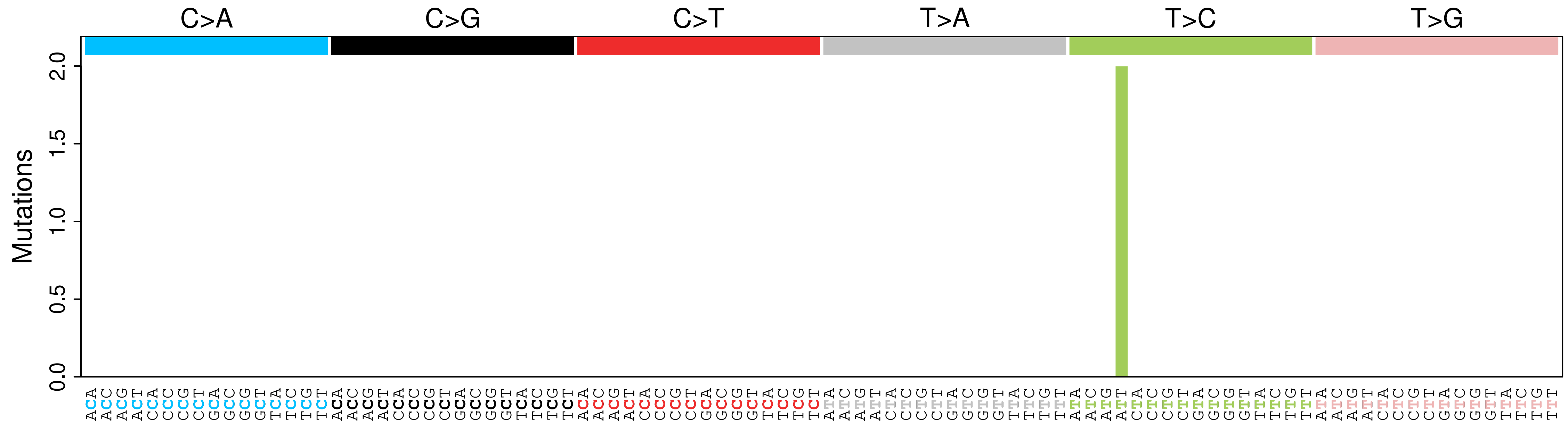
CATD0619a



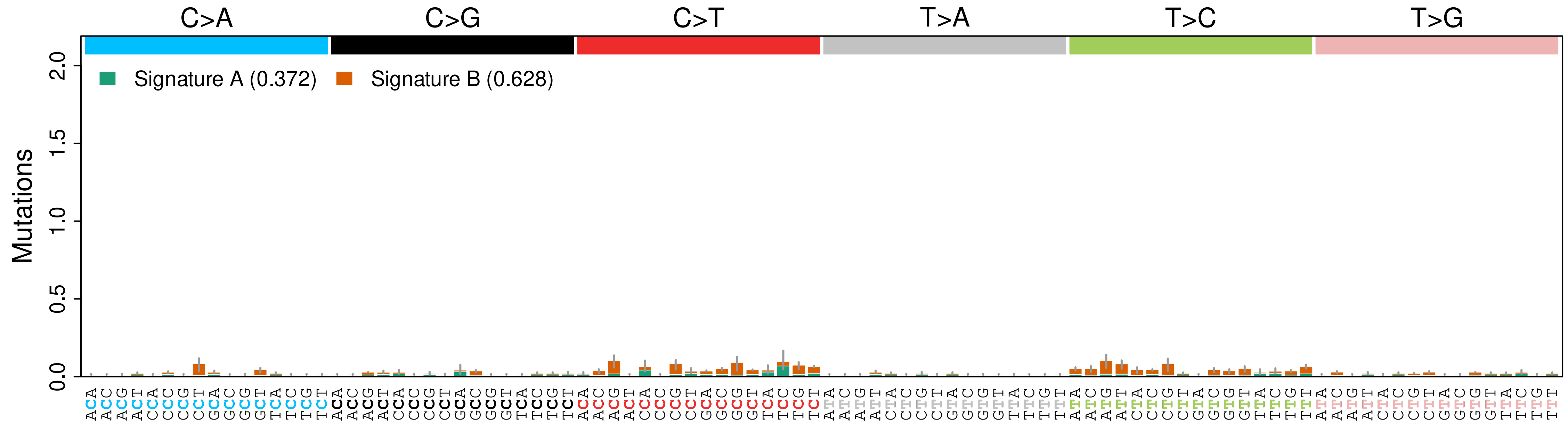
Reconstructed spectrum (cosine similarity = 0.376)



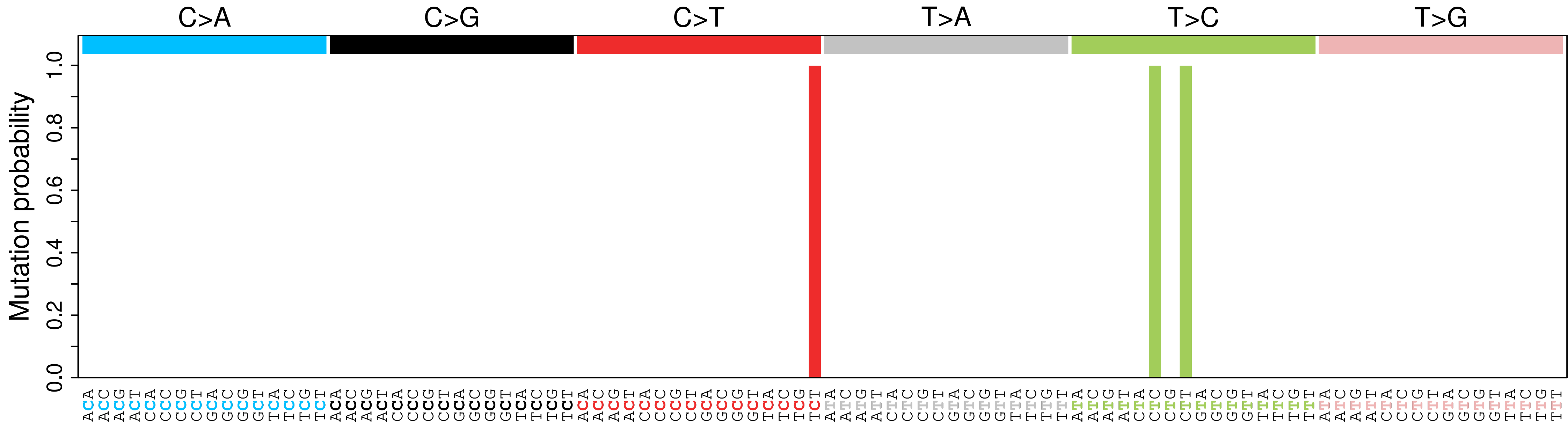
CATD0613a (2 mutations)



Reconstructed spectrum (cosine similarity = 0.216)



CATD0464a



Reconstructed spectrum (cosine similarity = 0.204)

