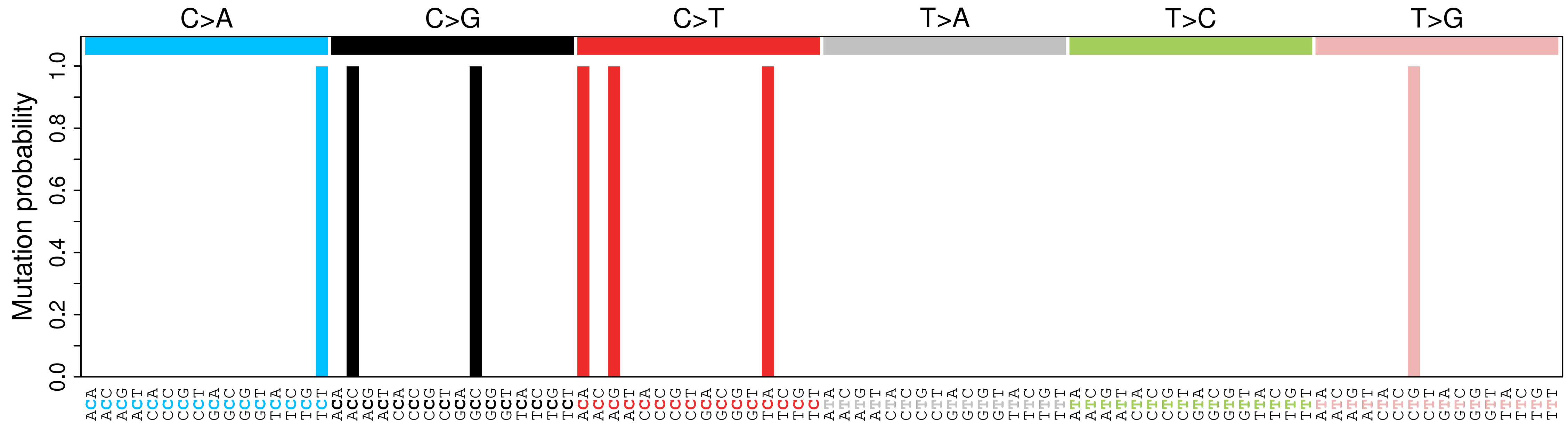
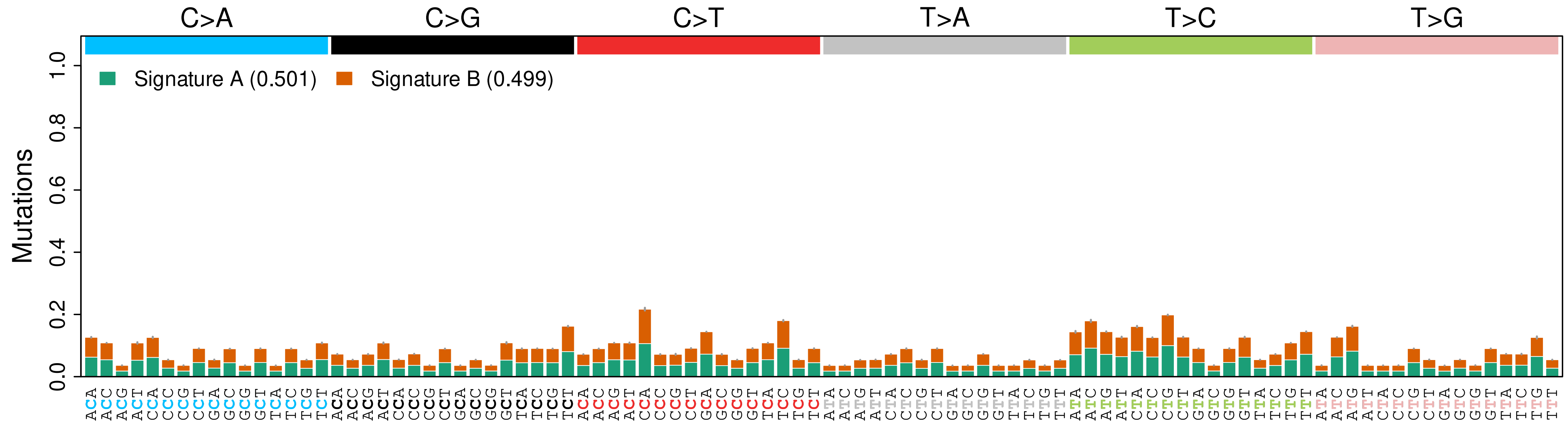


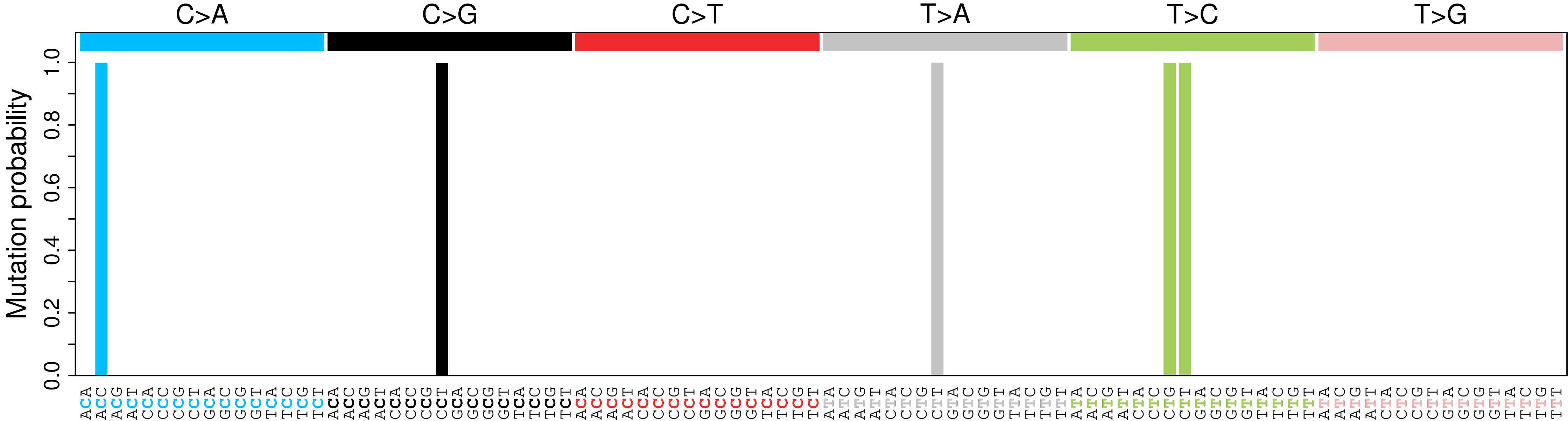
CATD0414a



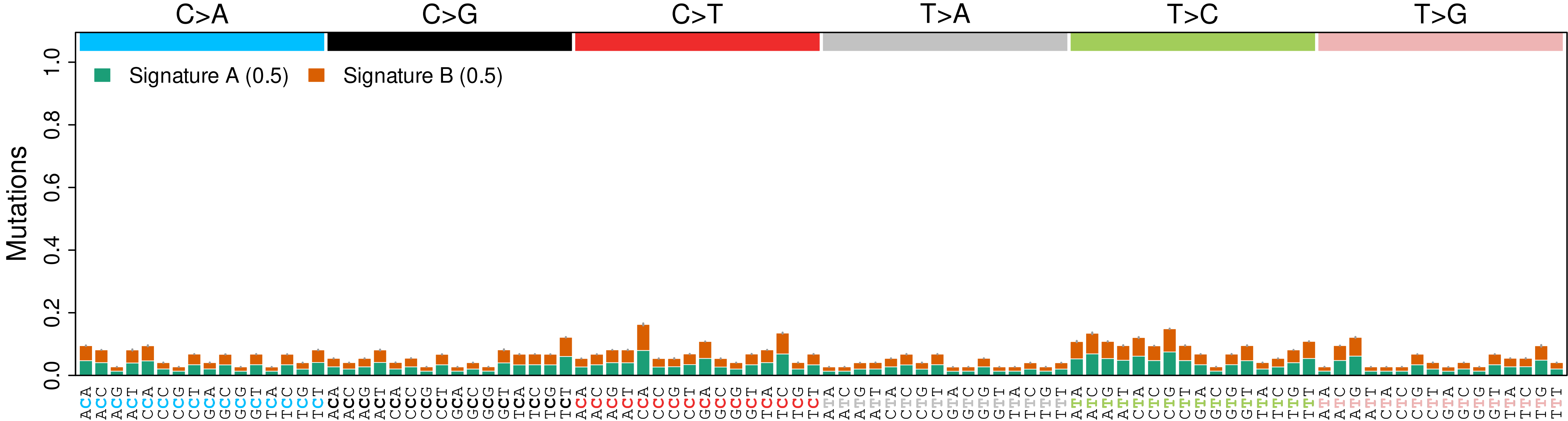
Reconstructed spectrum (cosine similarity = 0.247)



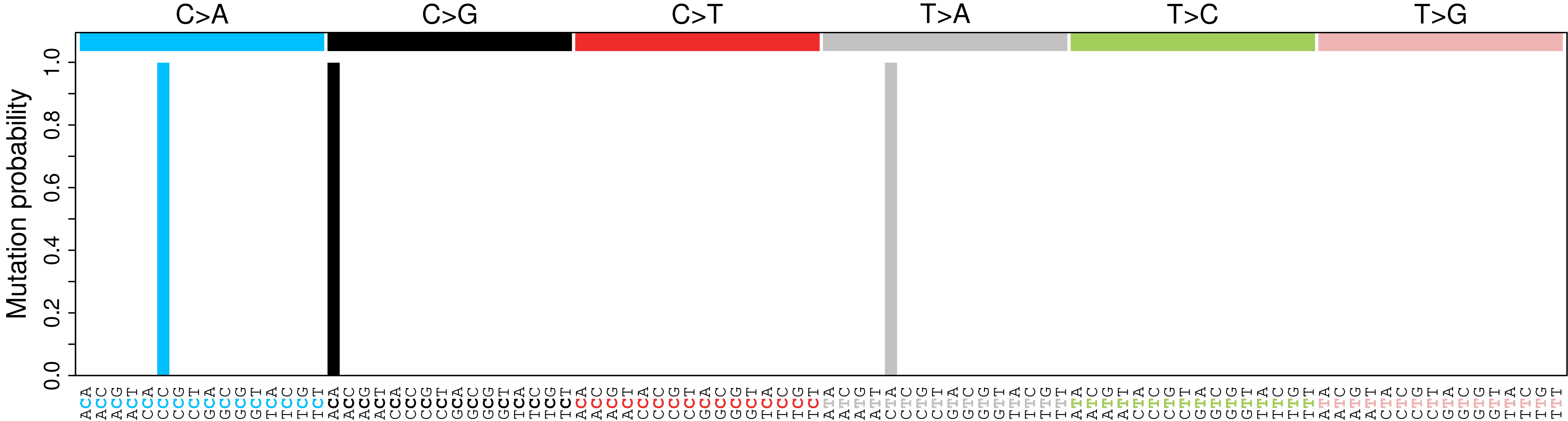
CATD0105a



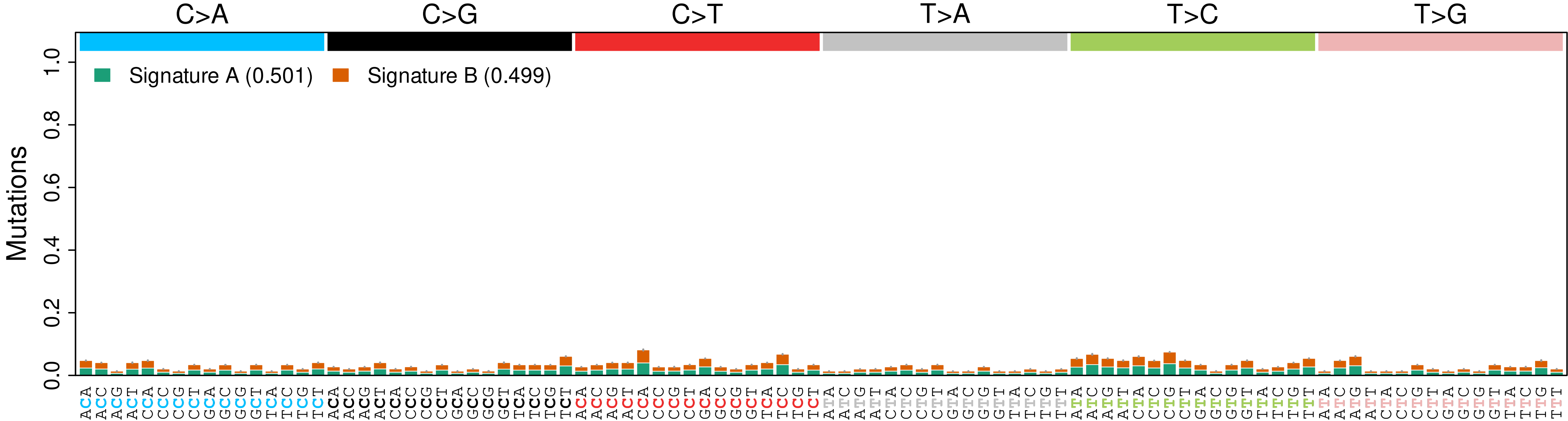
Reconstructed spectrum (cosine similarity = 0.301)



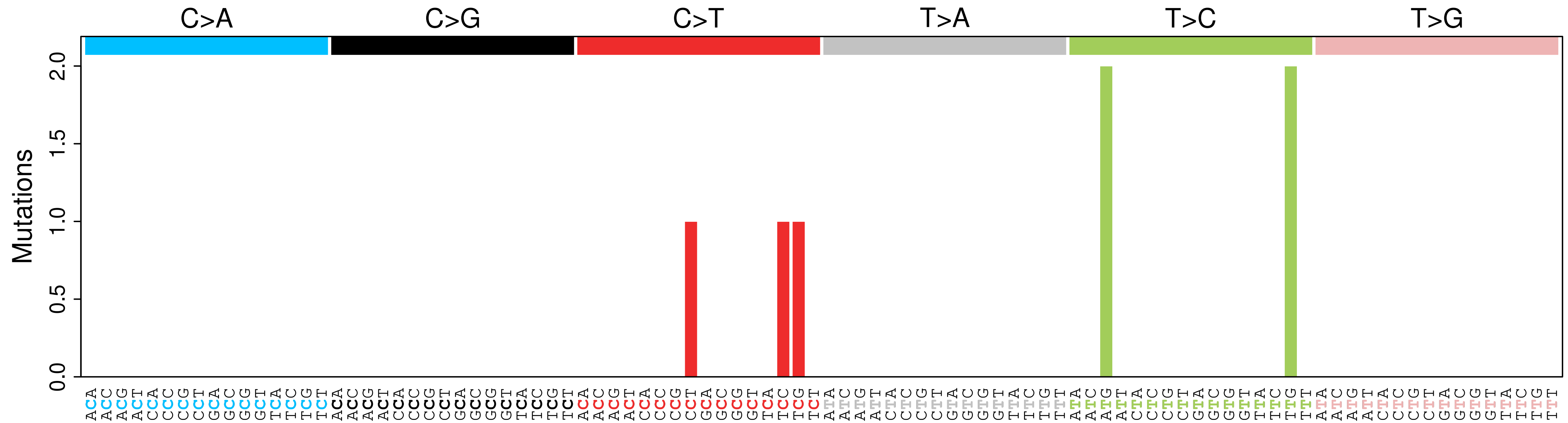
CATD189a



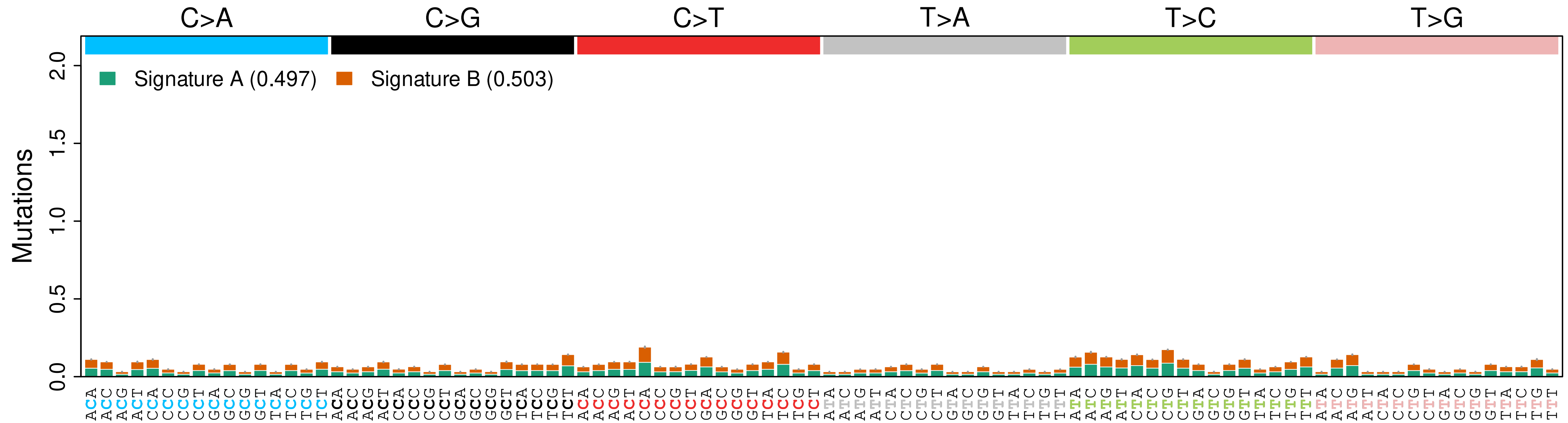
Reconstructed spectrum (cosine similarity = 0.126)



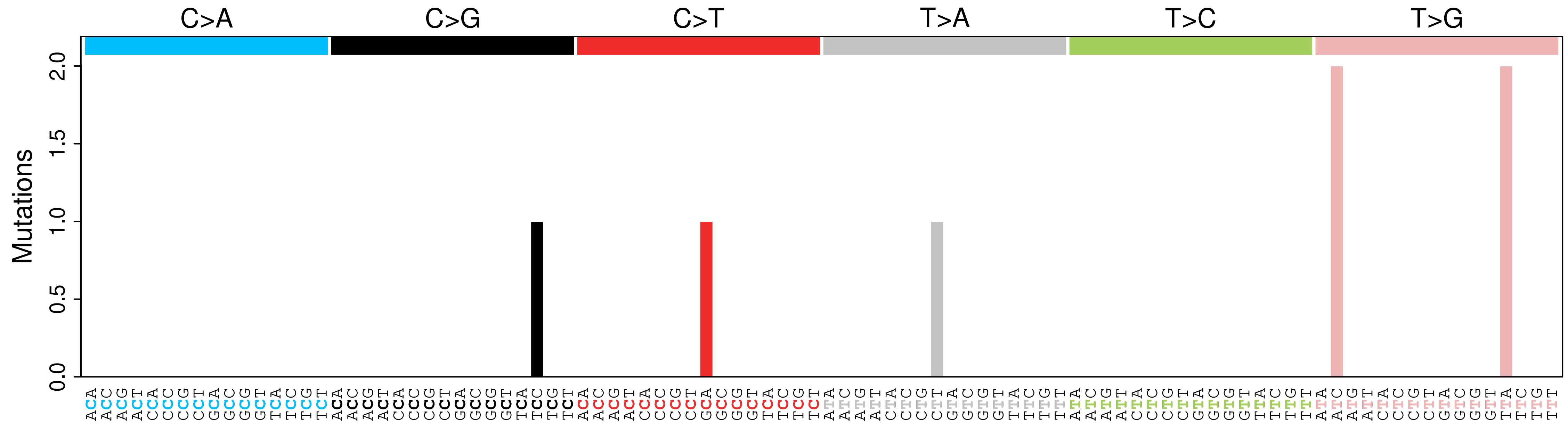
CATD0090a (7 mutations)



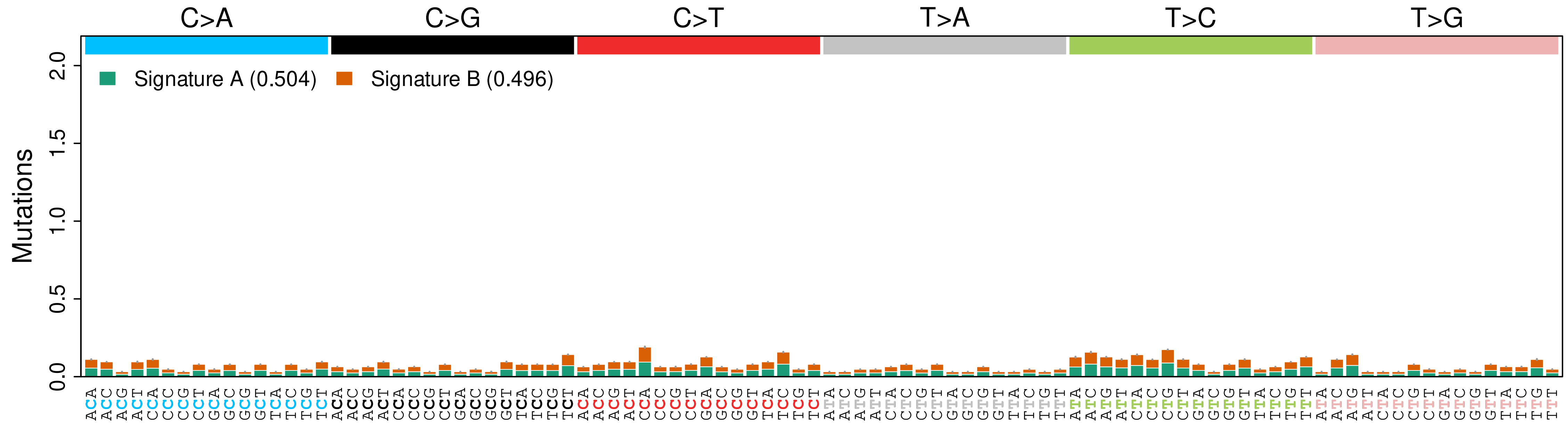
Reconstructed spectrum (cosine similarity = 0.275)



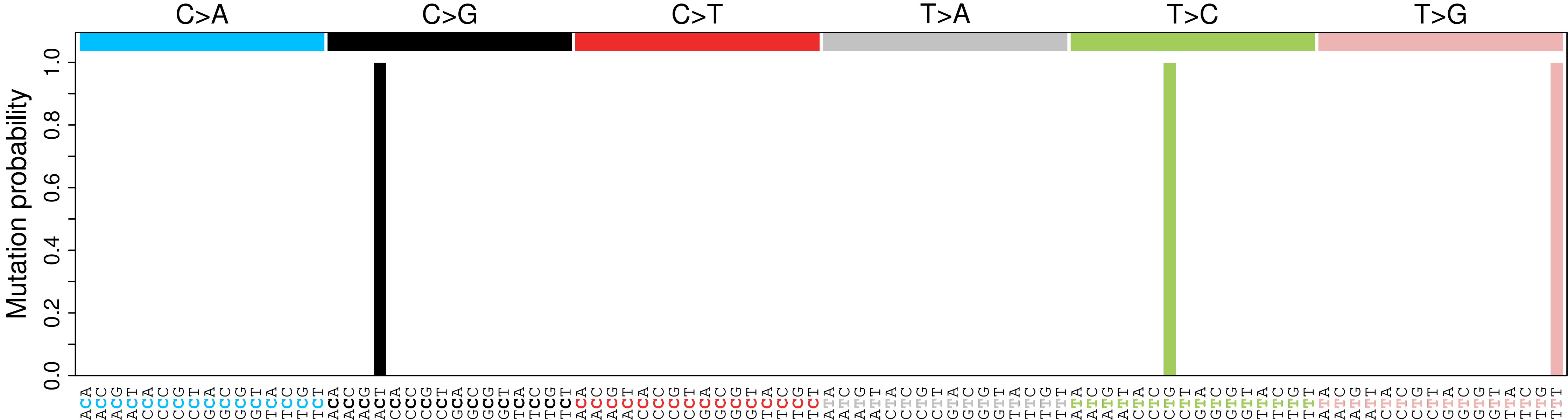
CATD0102a (7 mutations)



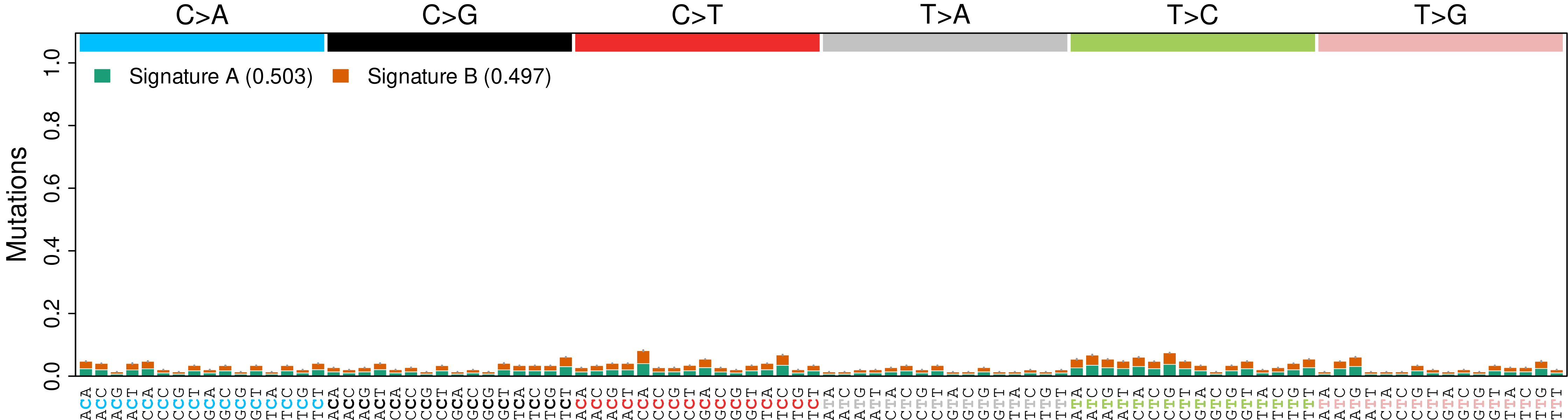
Reconstructed spectrum (cosine similarity = 0.239)



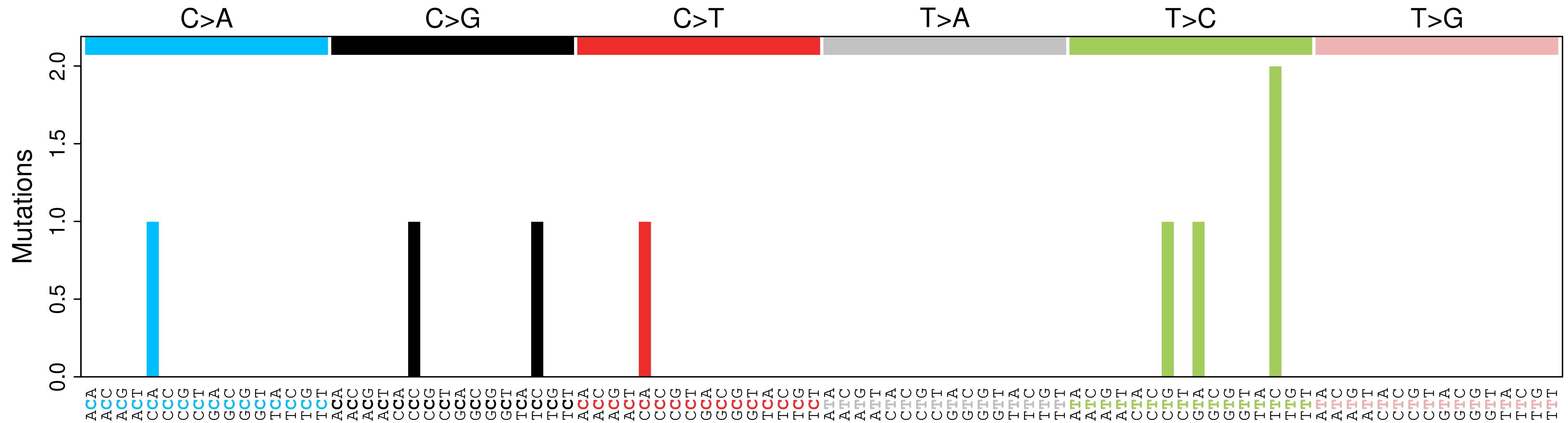
CATD0095a



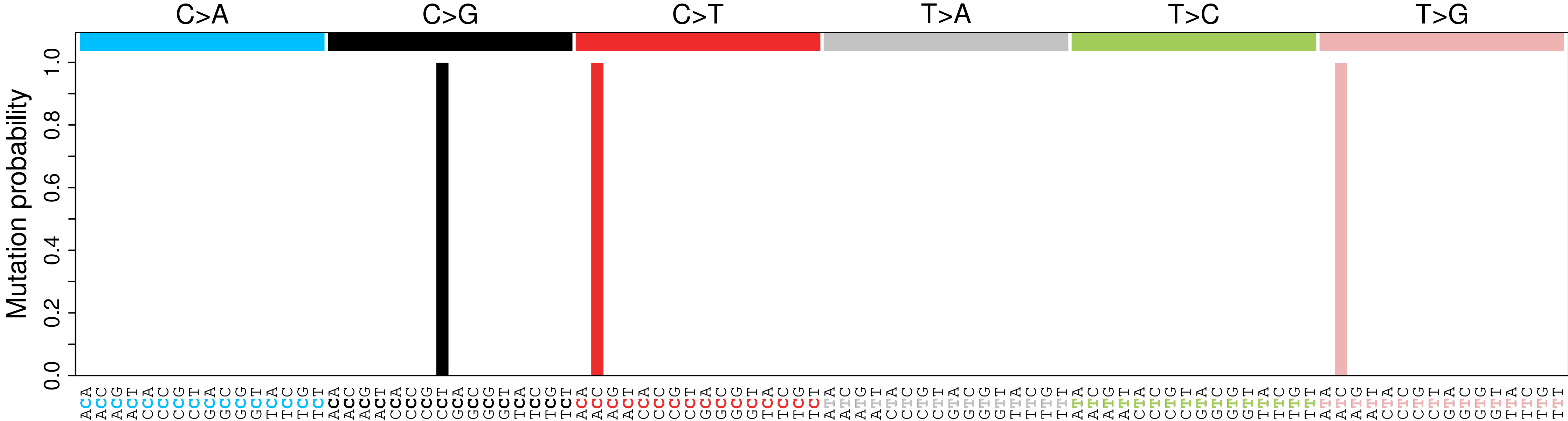
Reconstructed spectrum (cosine similarity = 0.228)



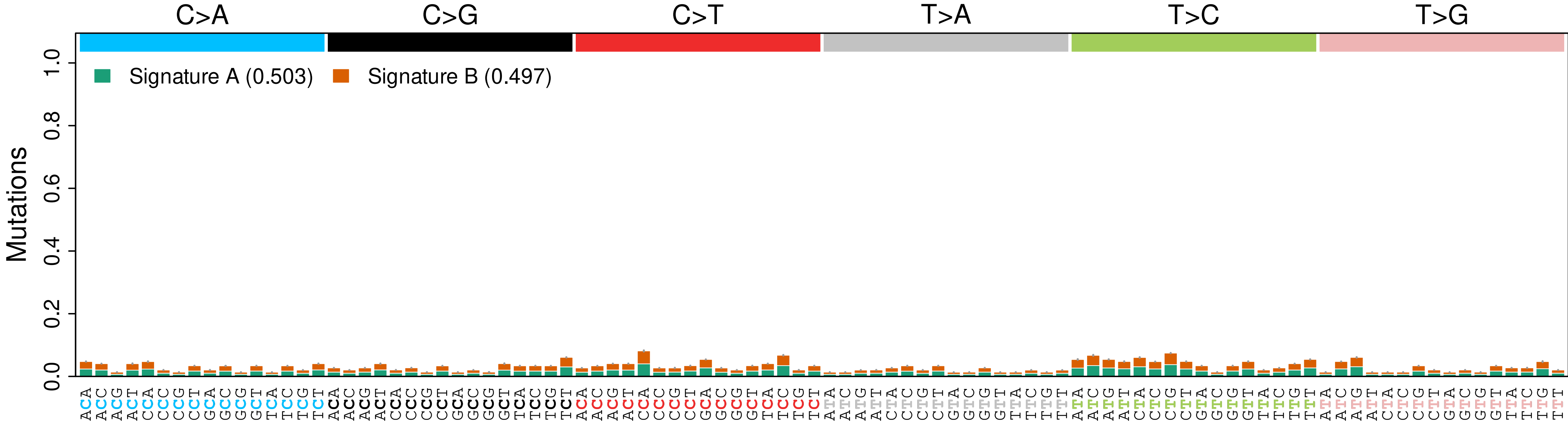
CATD0087a (8 mutations)



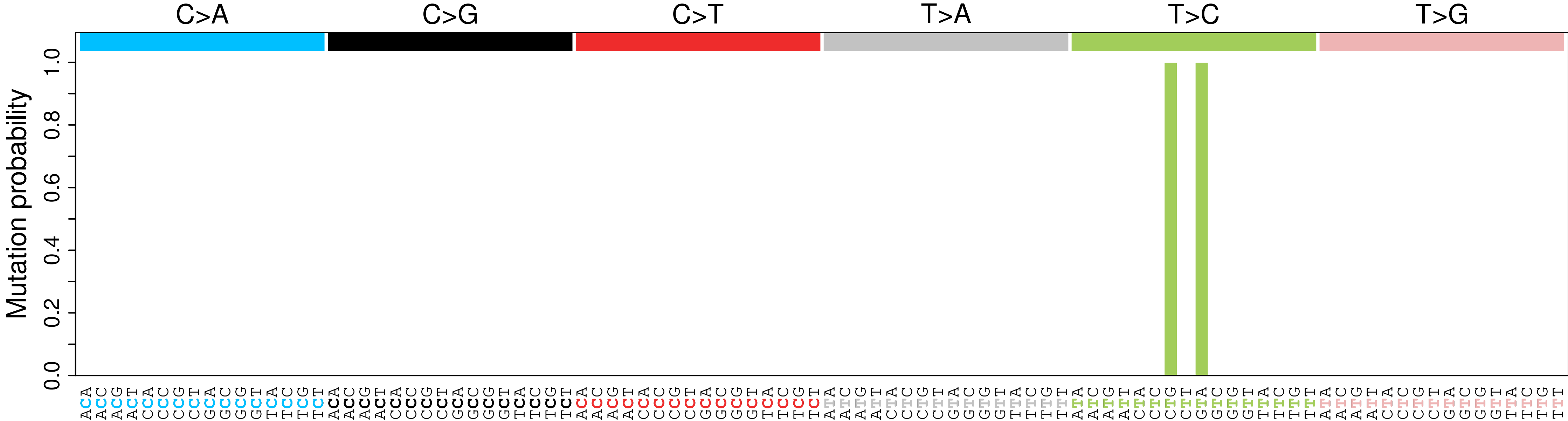
CATD0410a



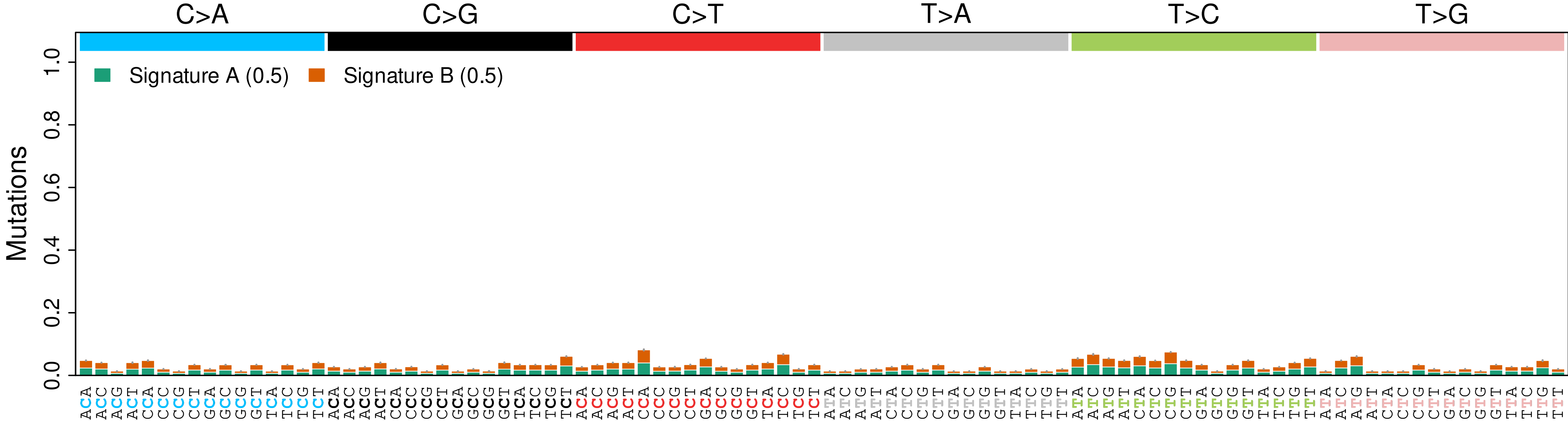
Reconstructed spectrum (cosine similarity = 0.194)



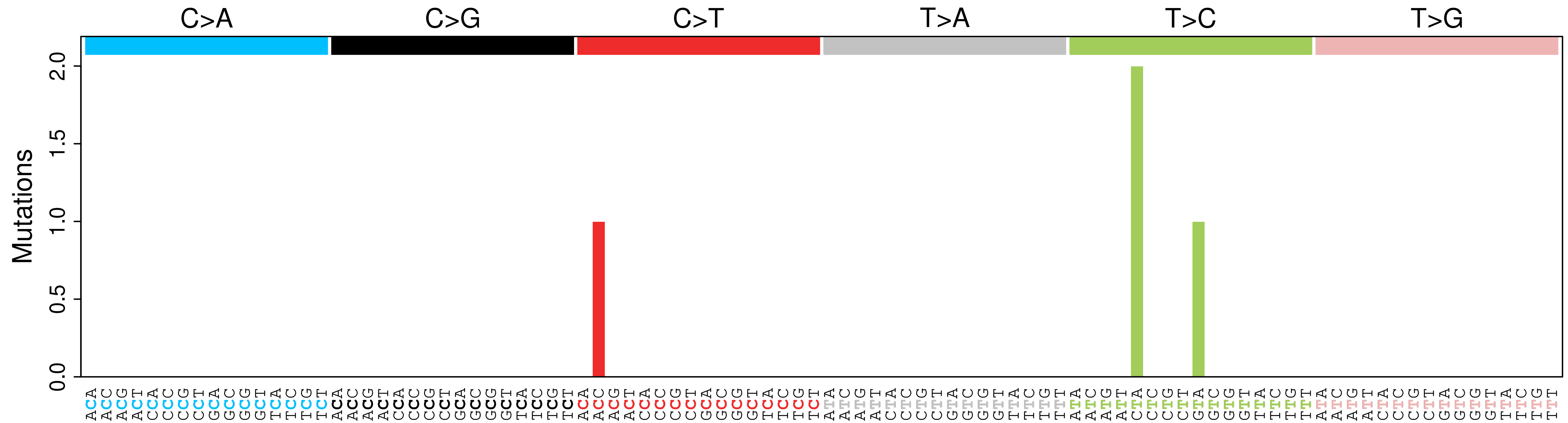
CATD0101a



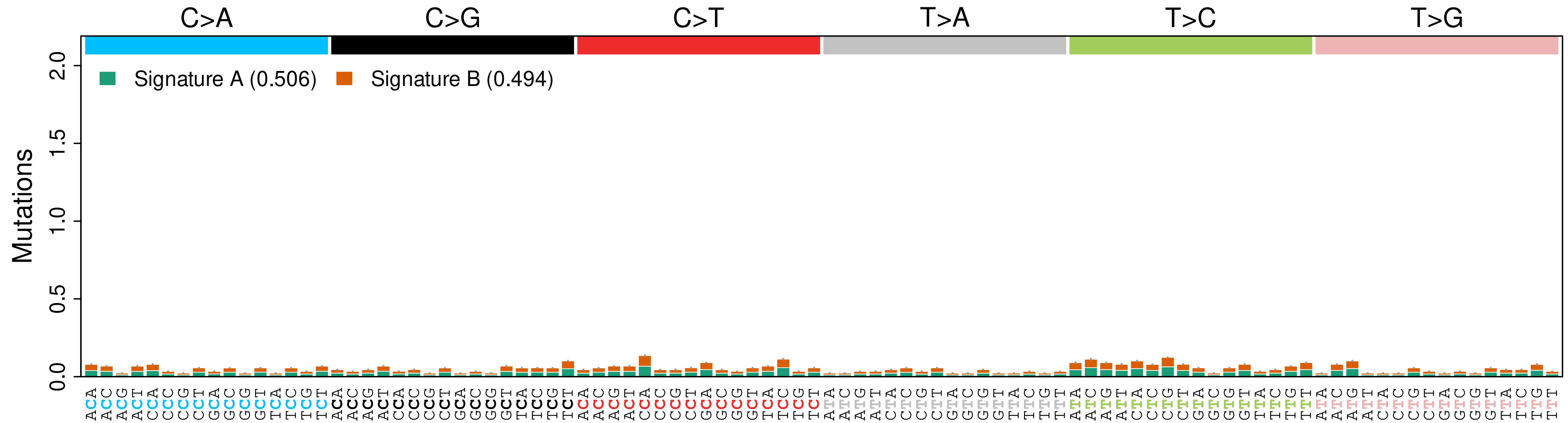
Reconstructed spectrum (cosine similarity = 0.224)



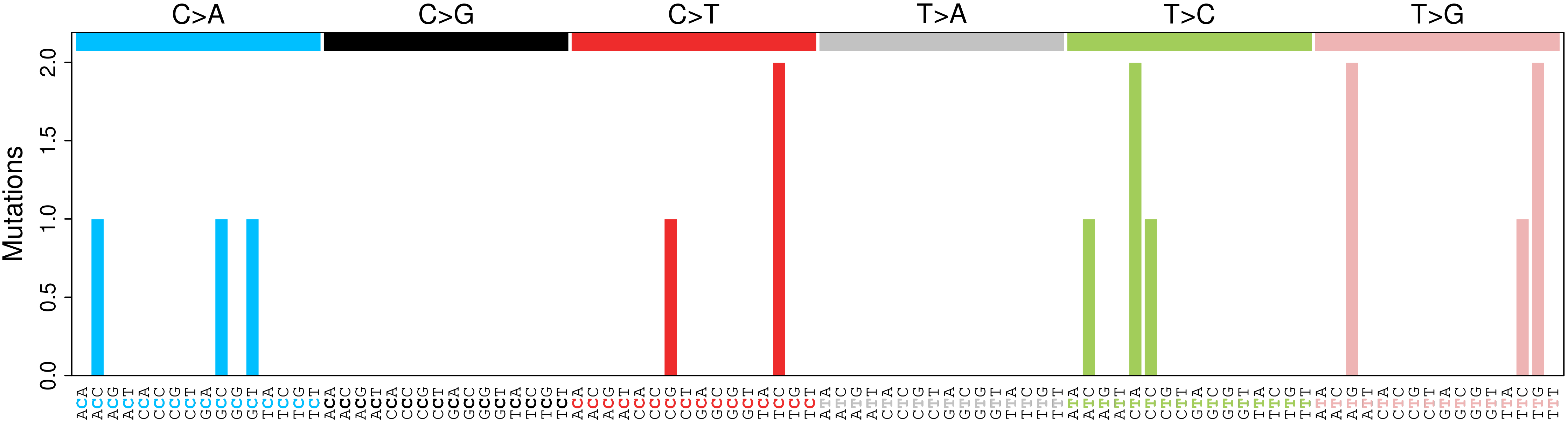
CATD0100a (4 mutations)



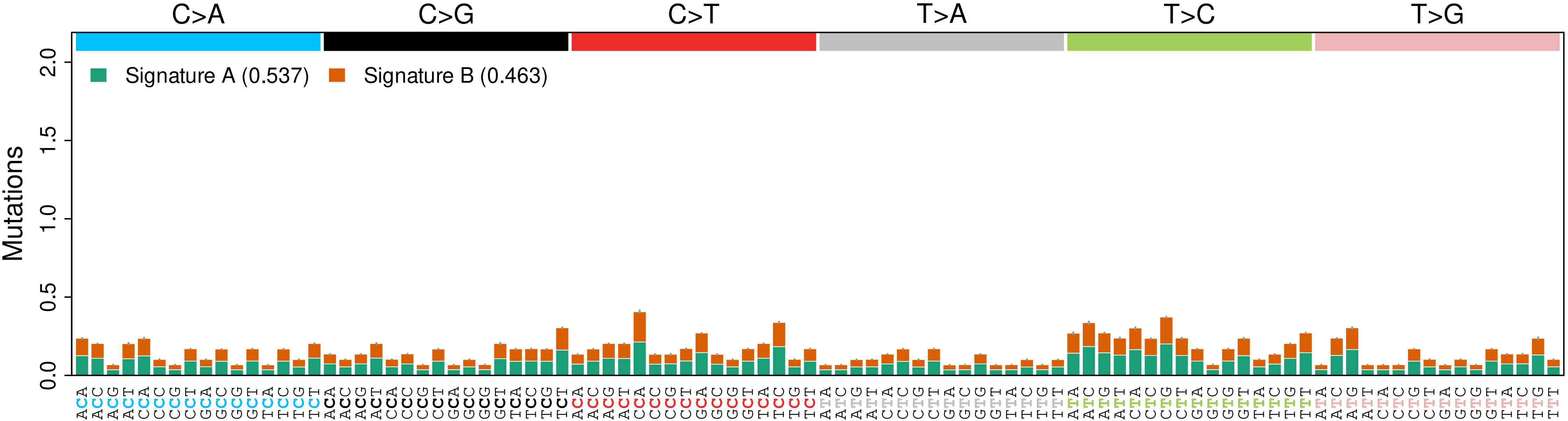
Reconstructed spectrum (cosine similarity = 0.225)



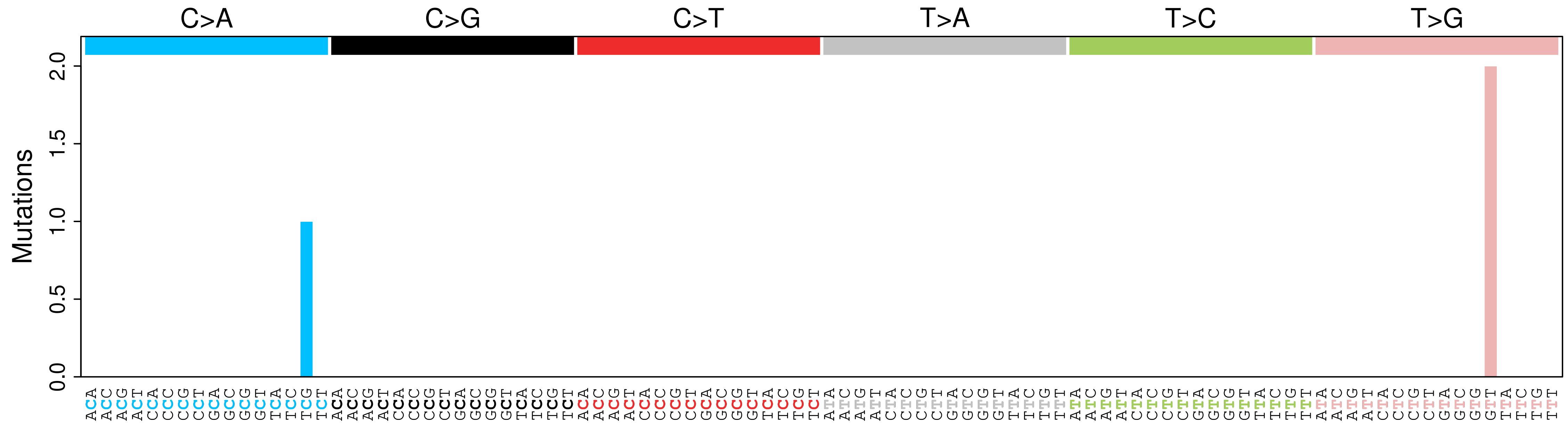
CATD0118a (15 mutations)



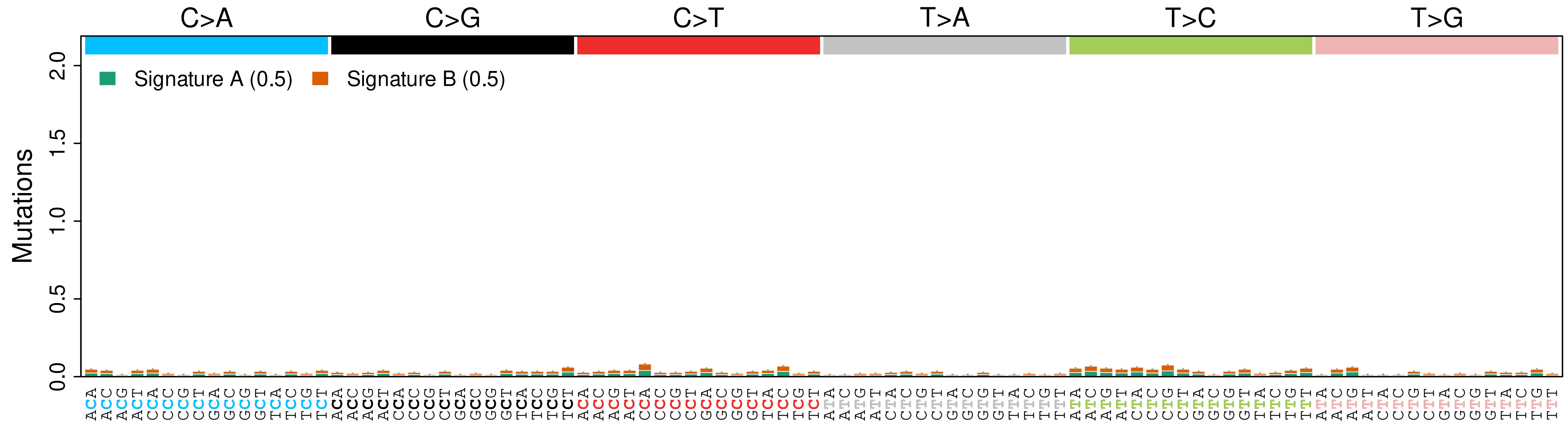
Reconstructed spectrum (cosine similarity = 0.456)



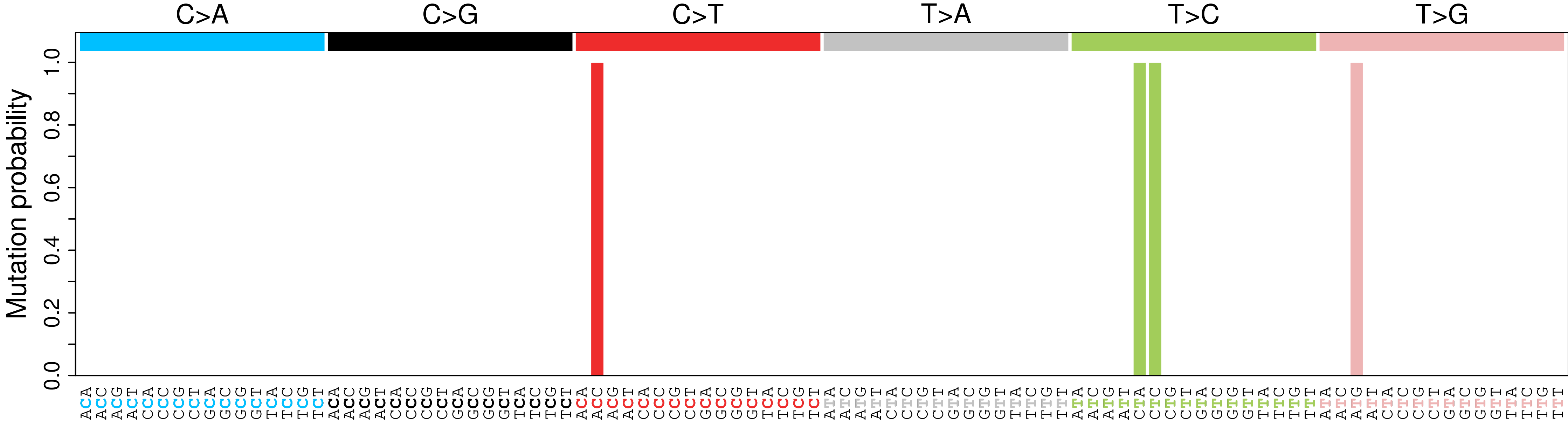
CATD0108a (3 mutations)



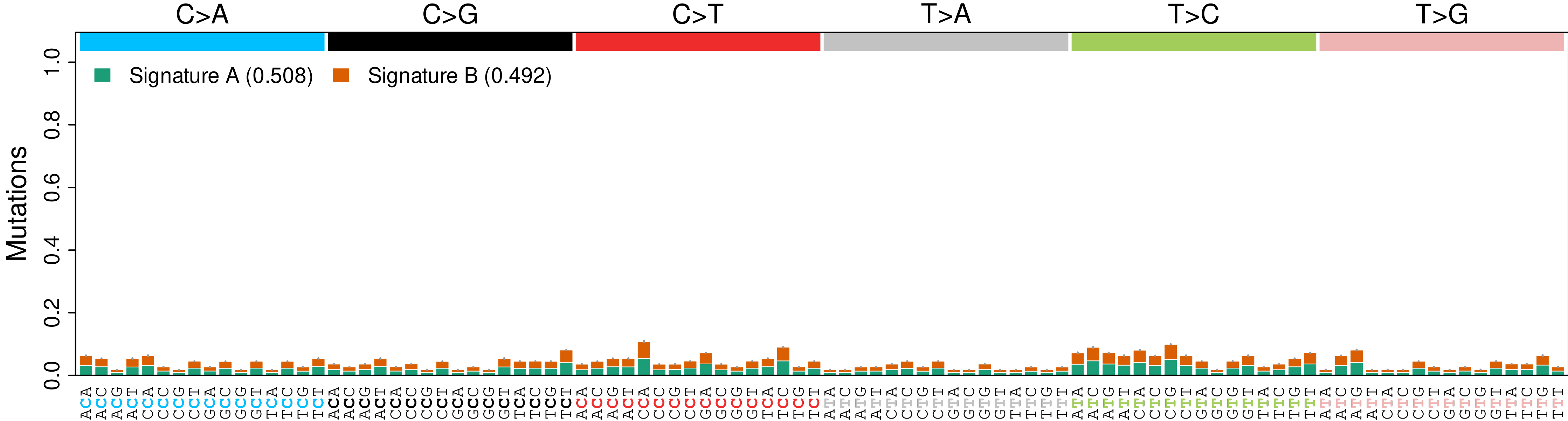
Reconstructed spectrum (cosine similarity = 0.115)



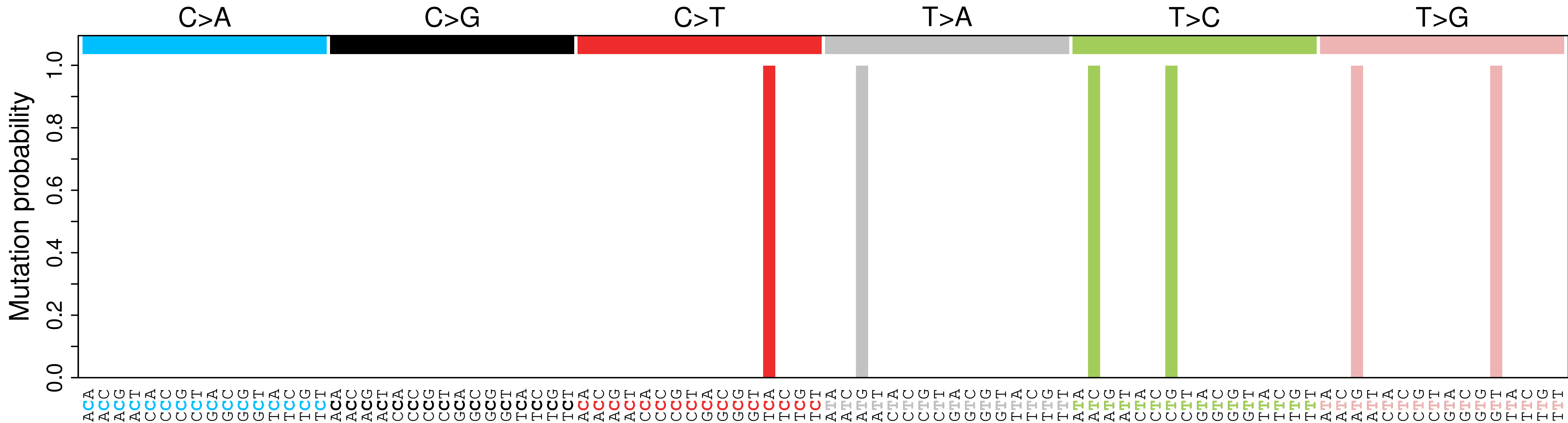
CATD0106a



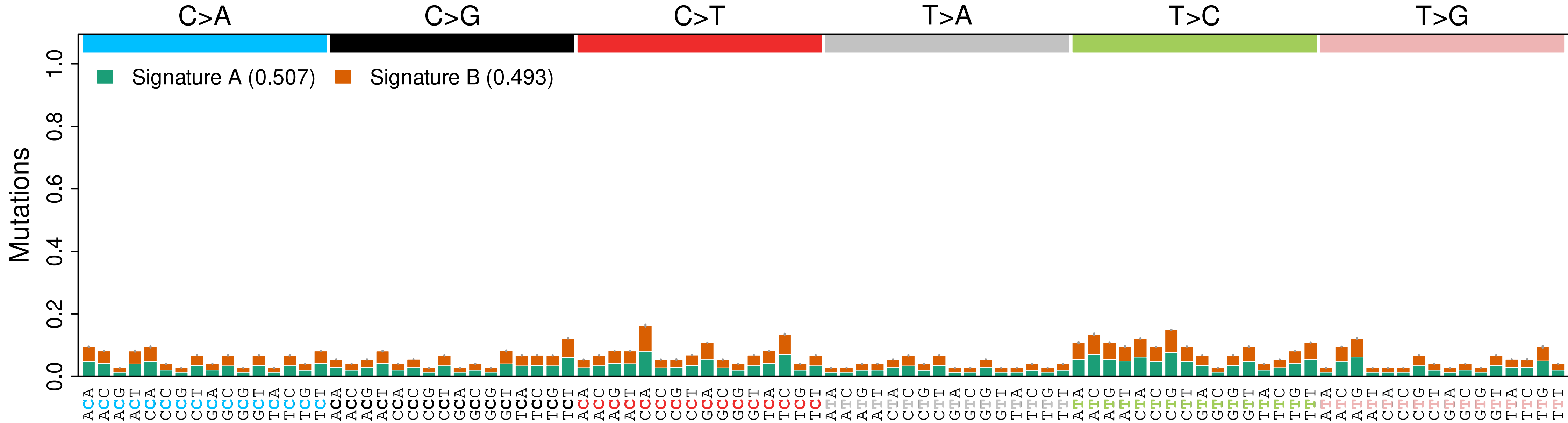
Reconstructed spectrum (cosine similarity = 0.295)



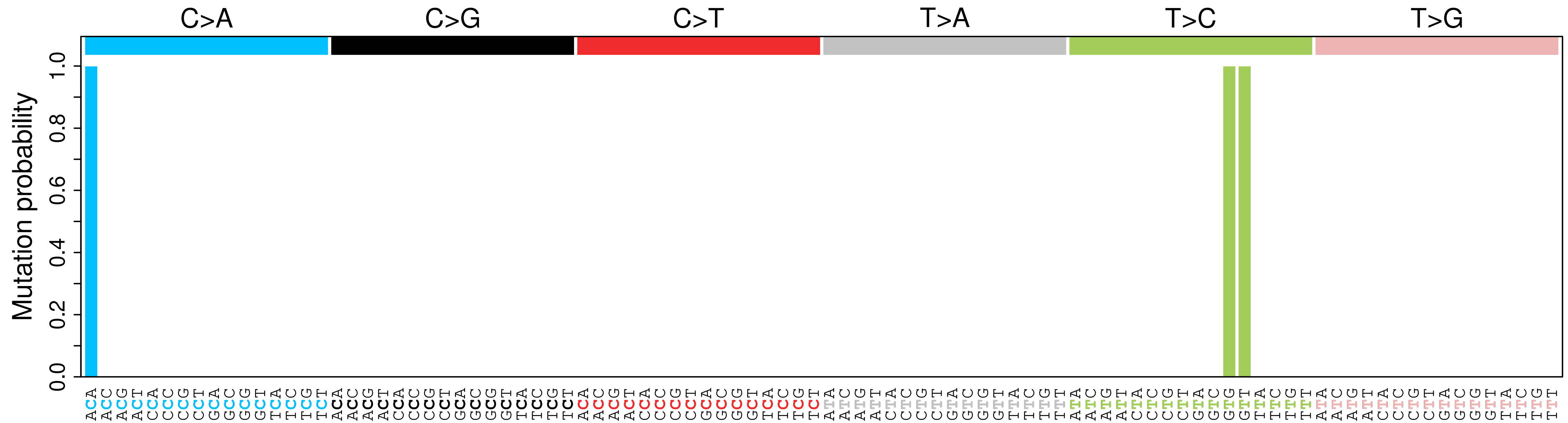
CATD0107a



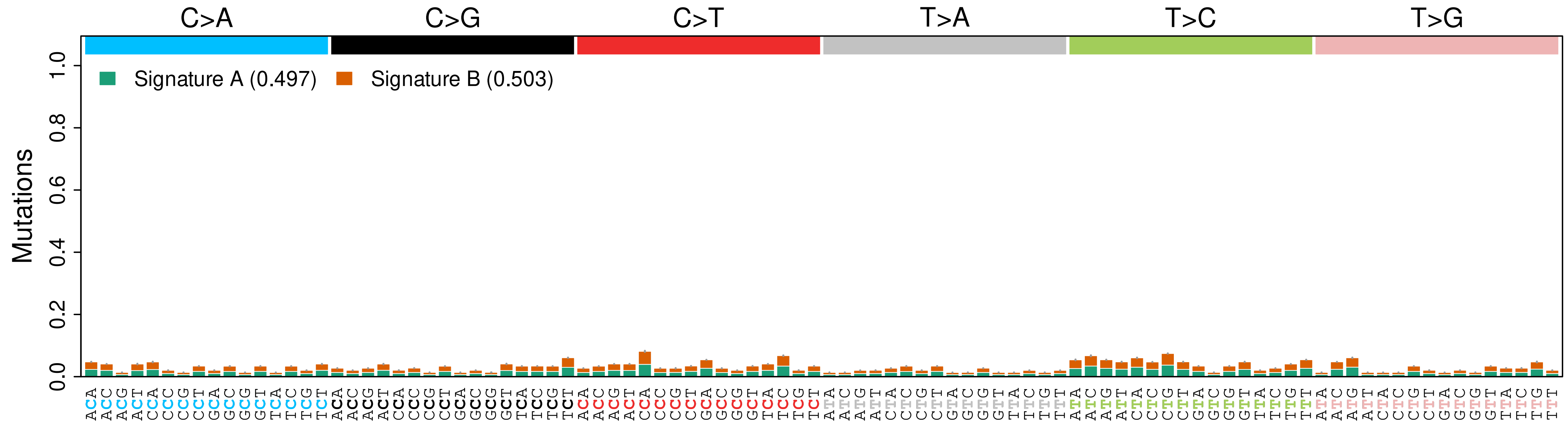
Reconstructed spectrum (cosine similarity = 0.354)



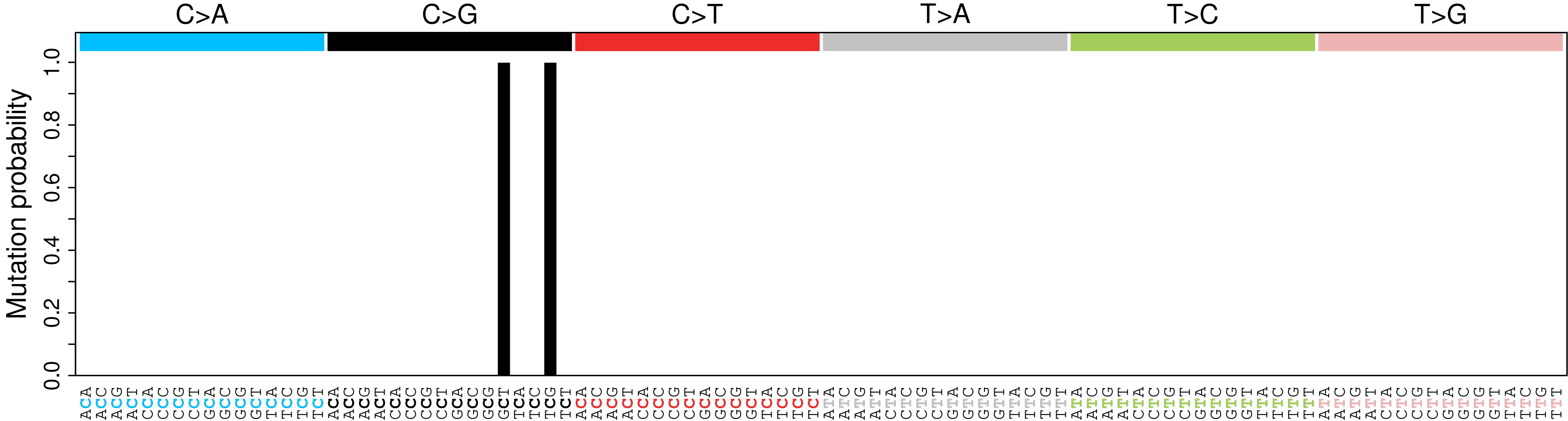
CATD0112a



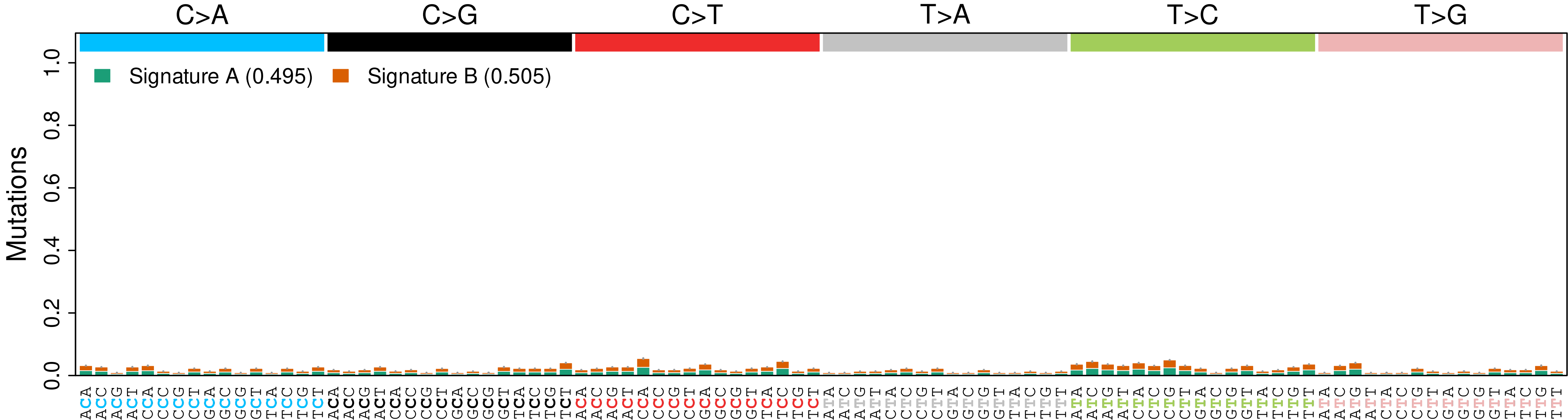
Reconstructed spectrum (cosine similarity = 0.217)



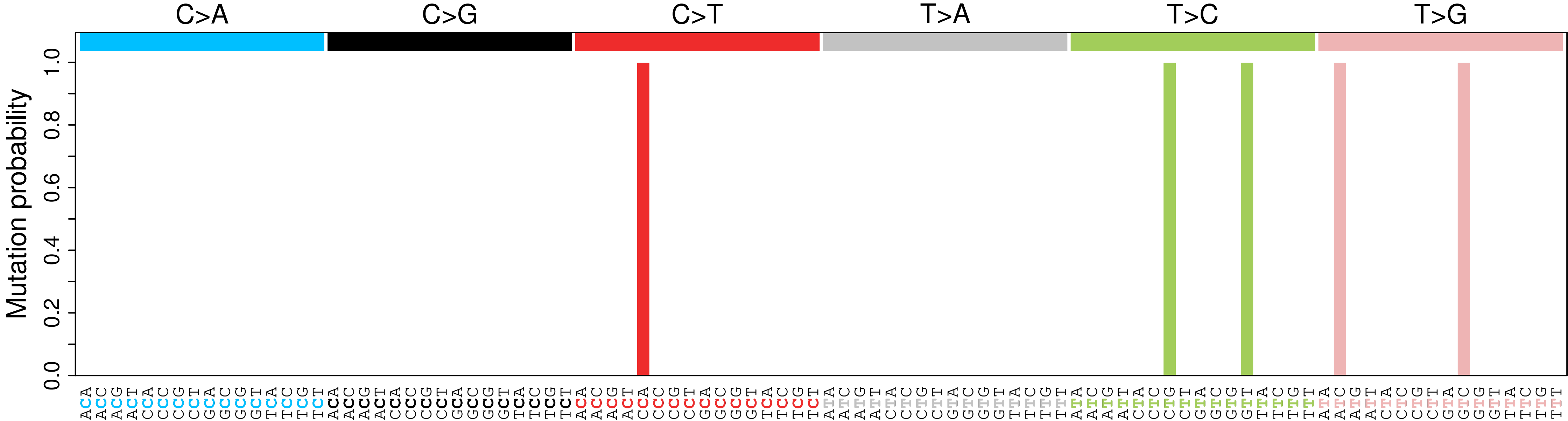
CATD0412a



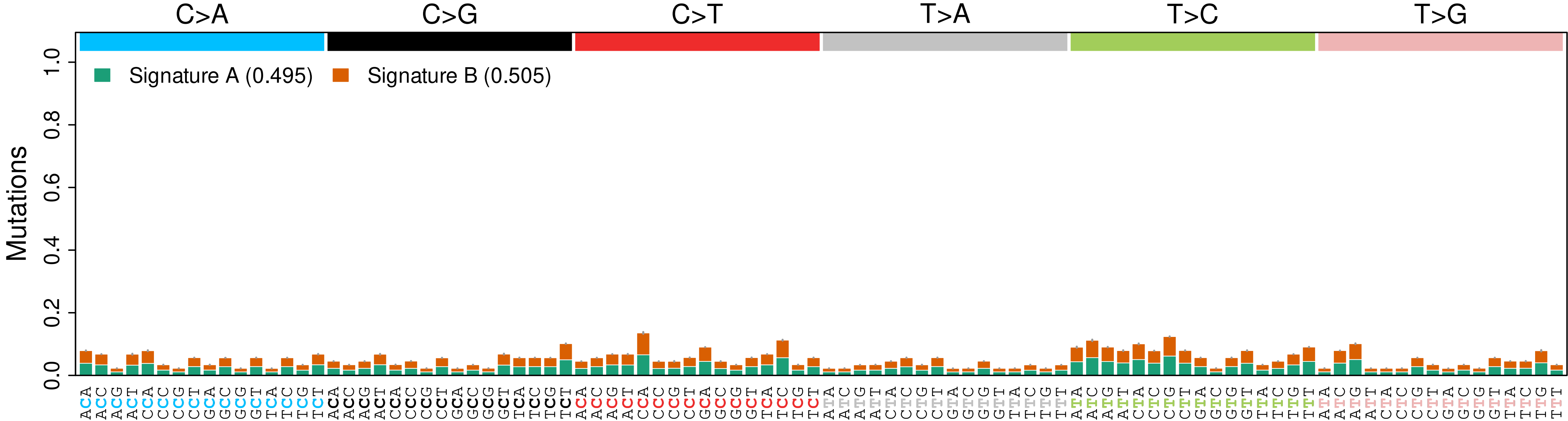
Reconstructed spectrum (cosine similarity = 0.154)



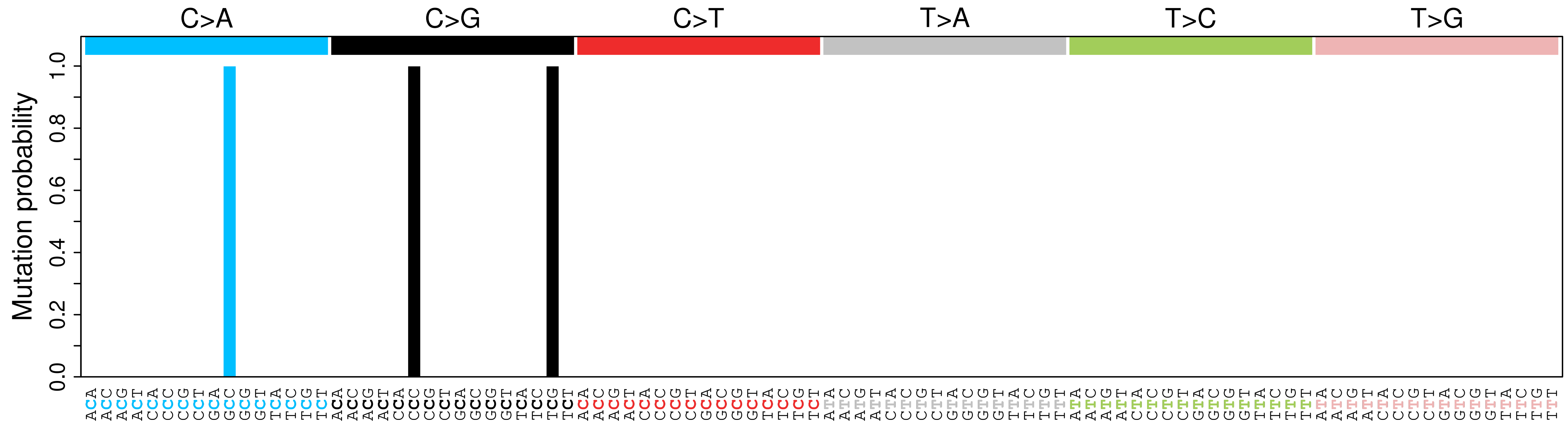
CATD0110a



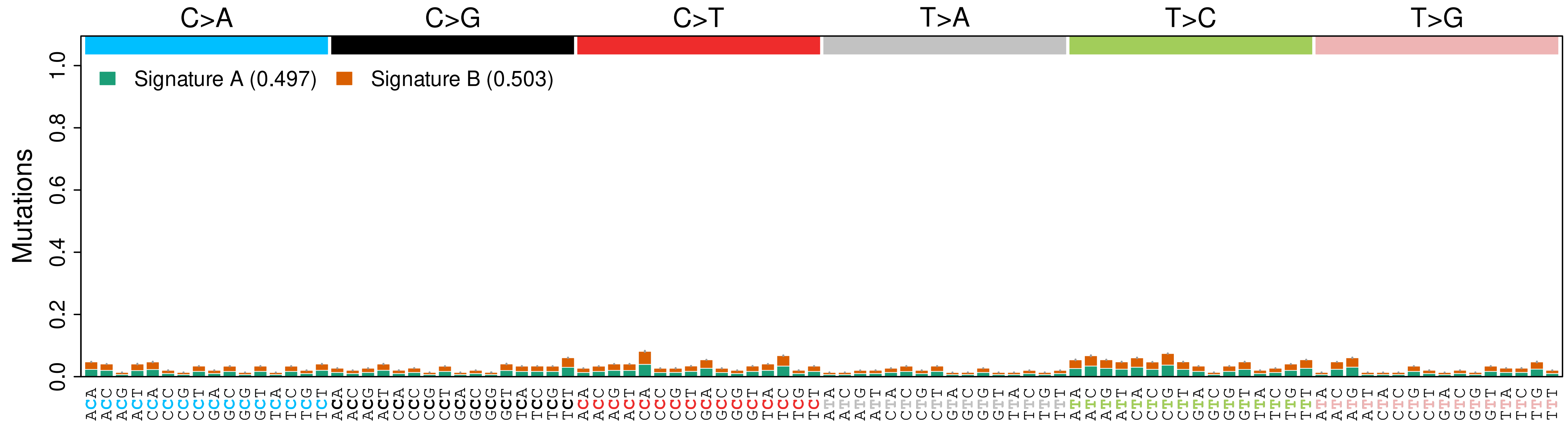
Reconstructed spectrum (cosine similarity = 0.354)



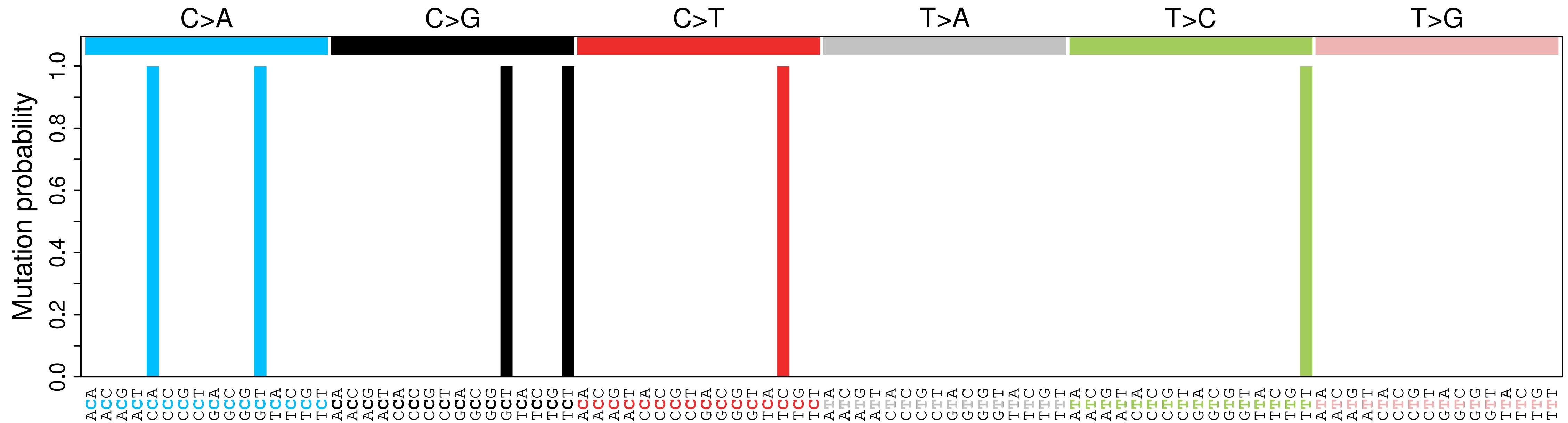
CATD0117a



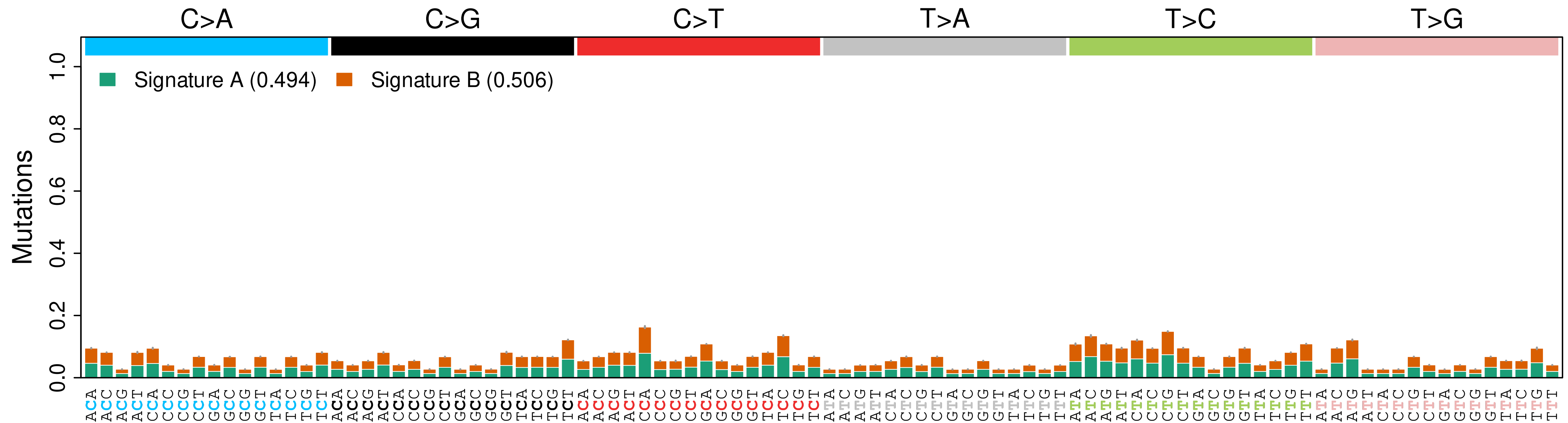
Reconstructed spectrum (cosine similarity = 0.16)



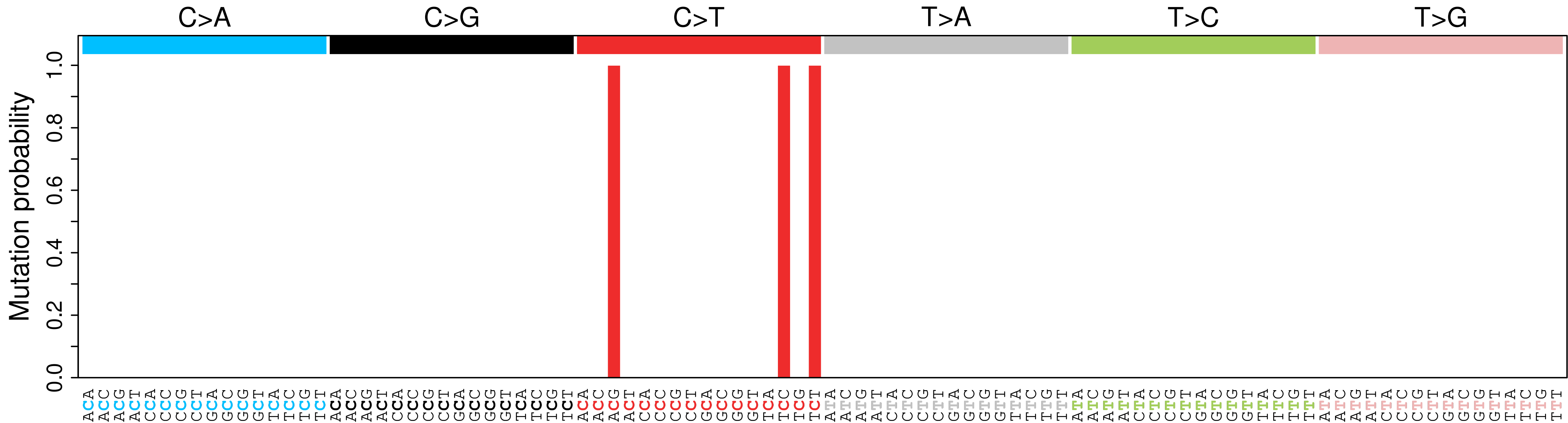
CATD0084a



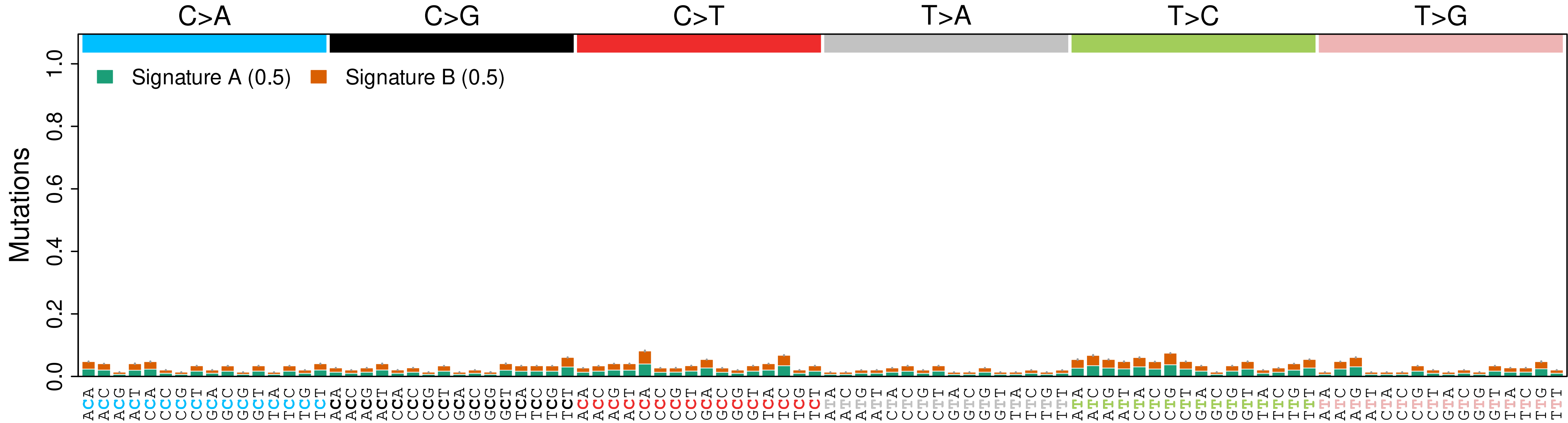
Reconstructed spectrum (cosine similarity = 0.363)



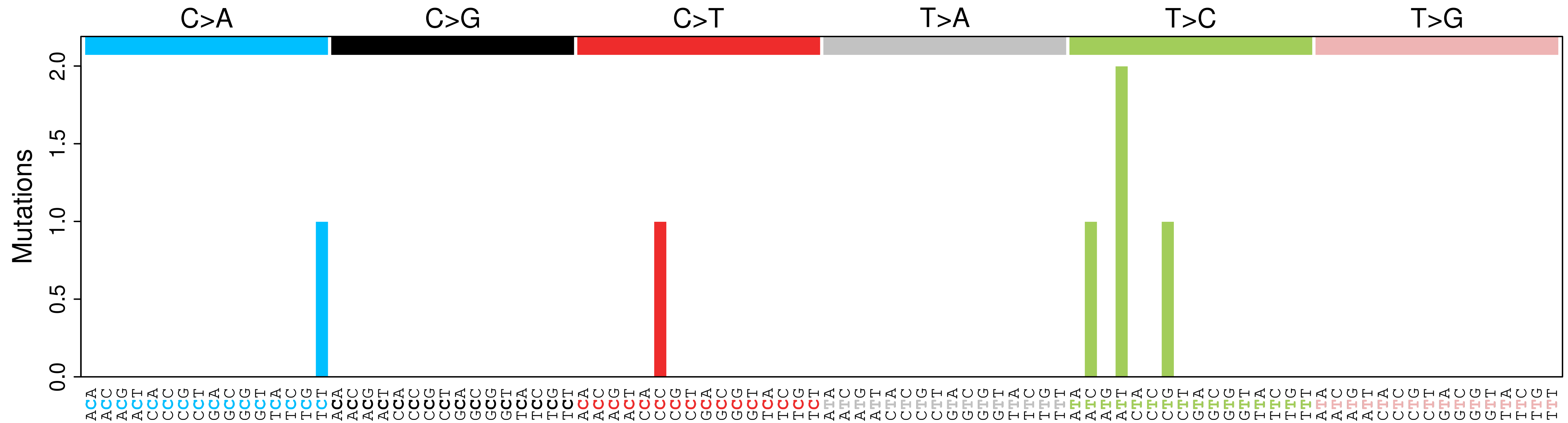
CATD0092a



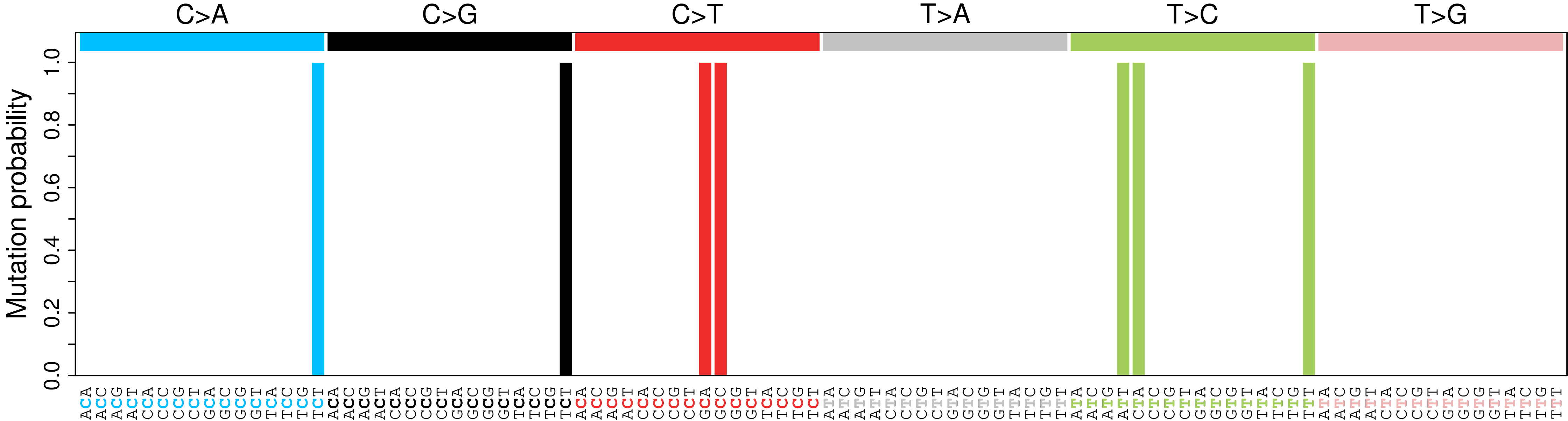
Reconstructed spectrum (cosine similarity = 0.24)



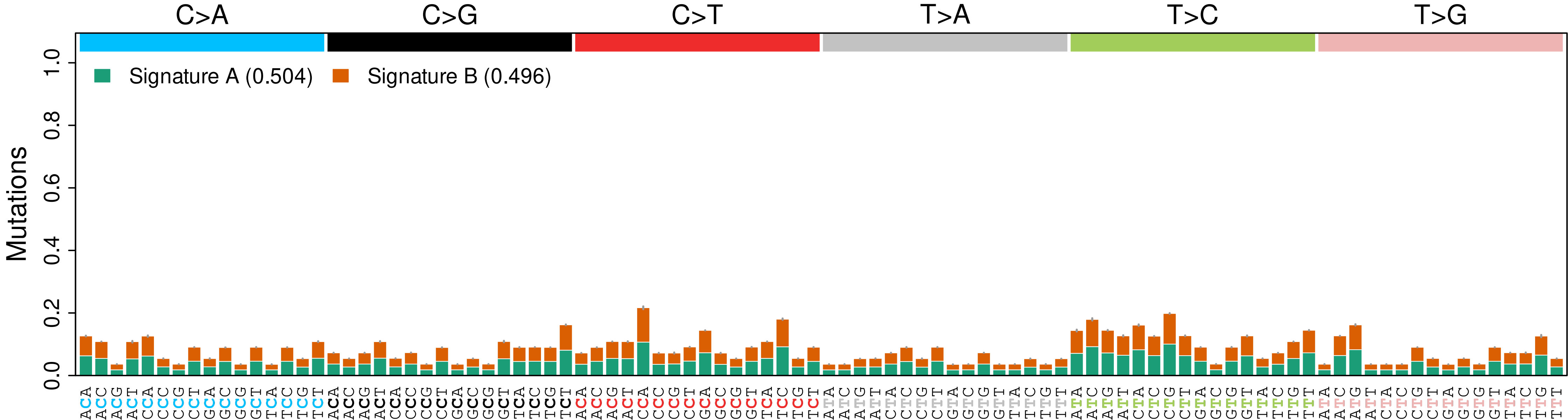
CATD0111a (6 mutations)



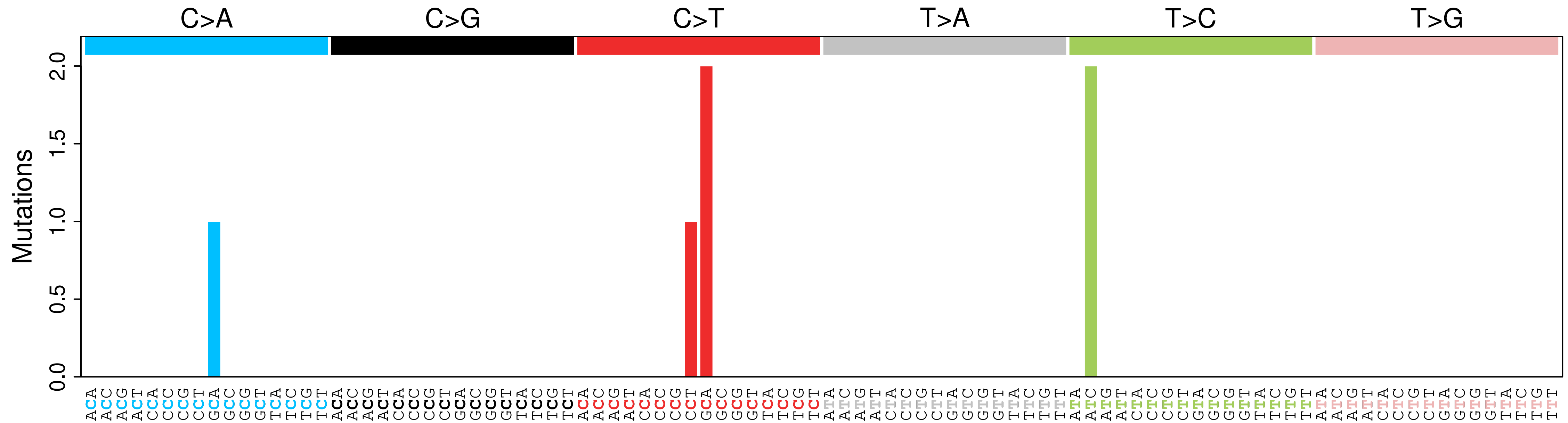
CATD0114a



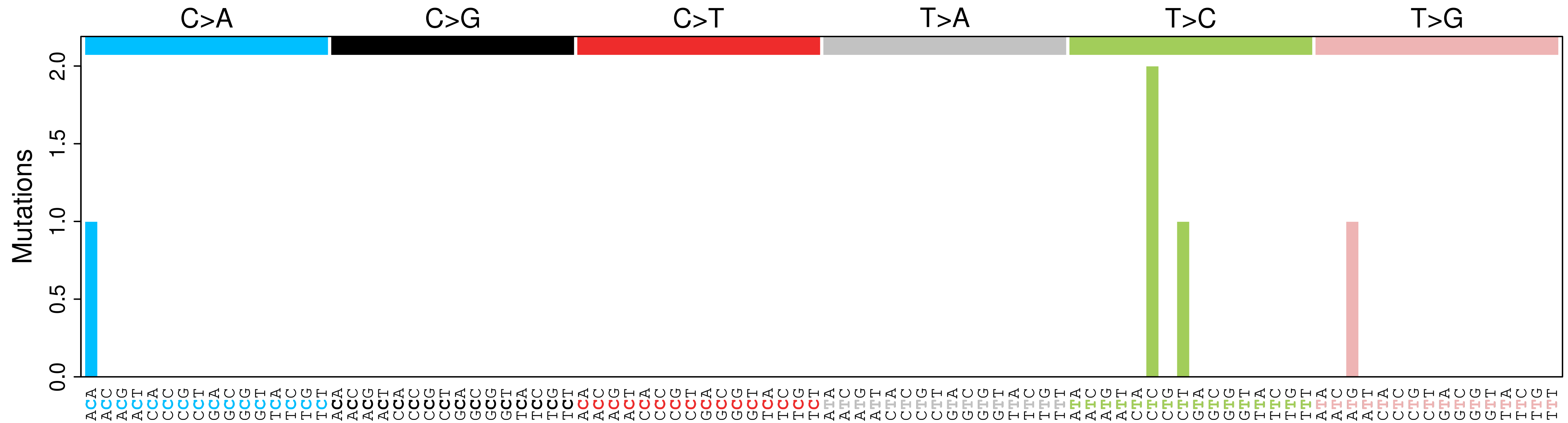
Reconstructed spectrum (cosine similarity = 0.381)



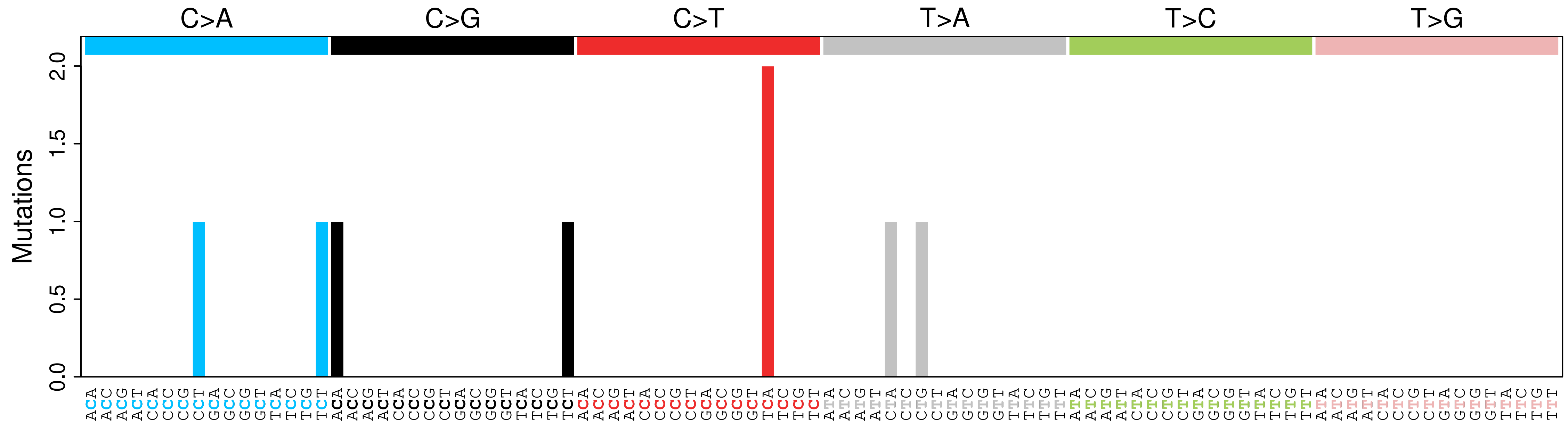
CATD0099a (6 mutations)



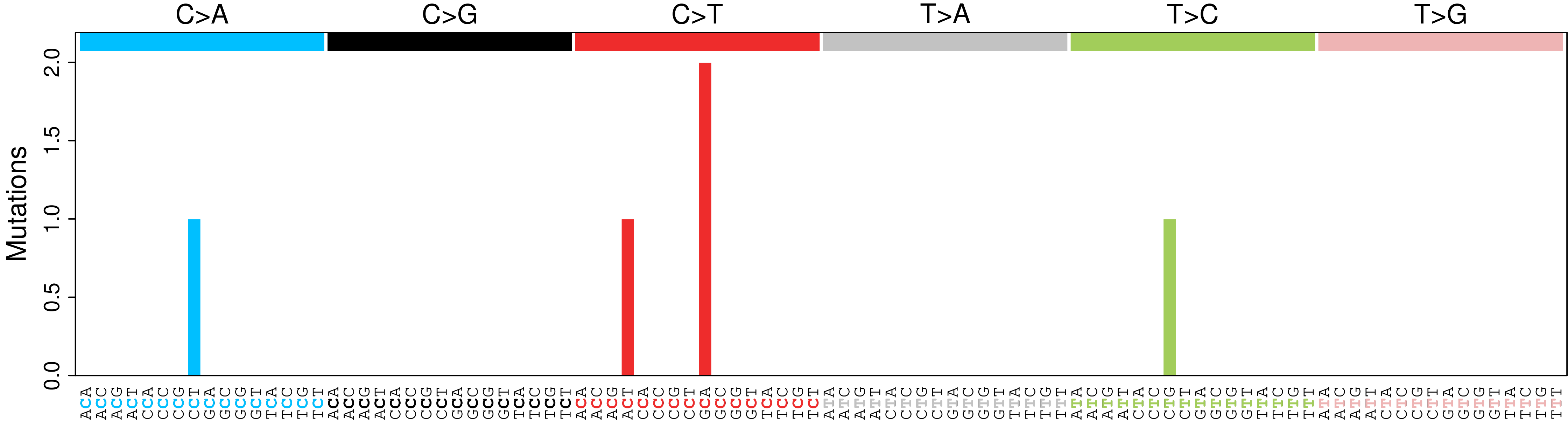
CATD0091a (5 mutations)



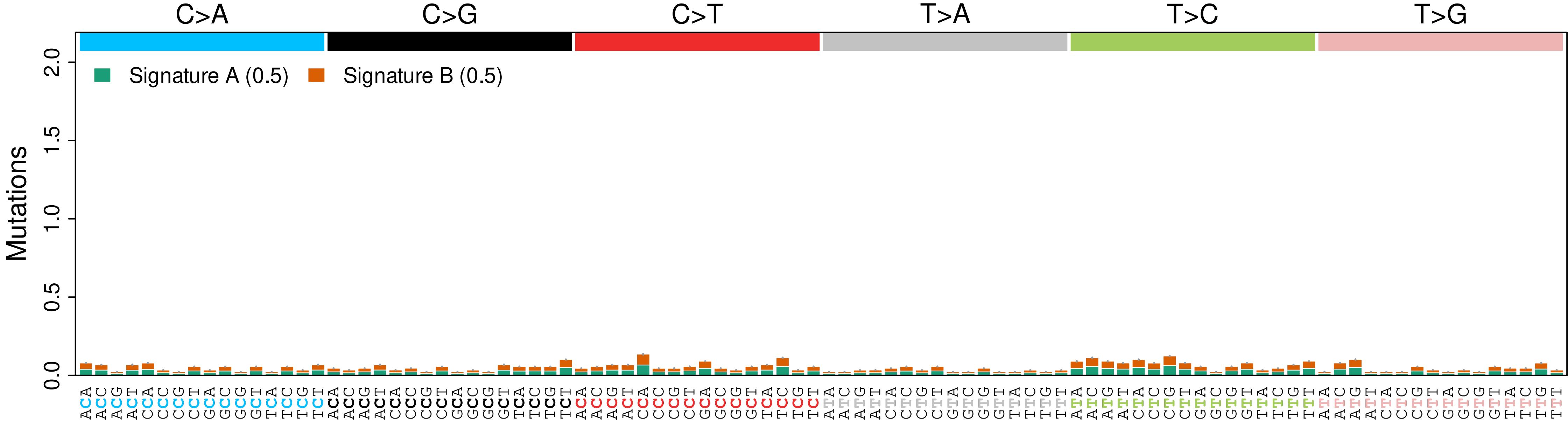
CATD0086a (8 mutations)



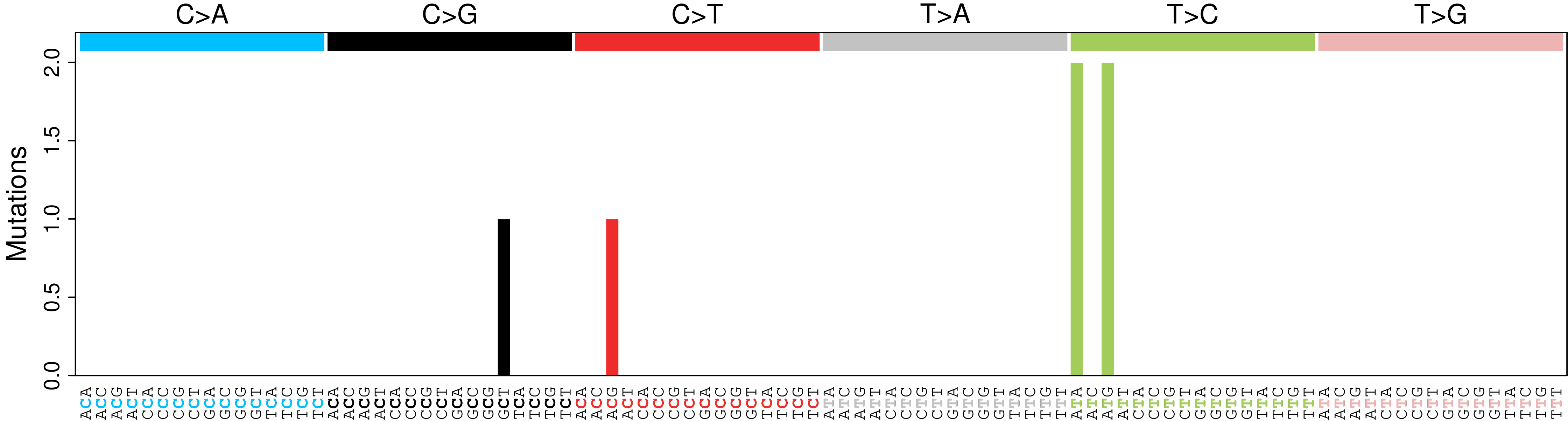
CATD0405a (5 mutations)



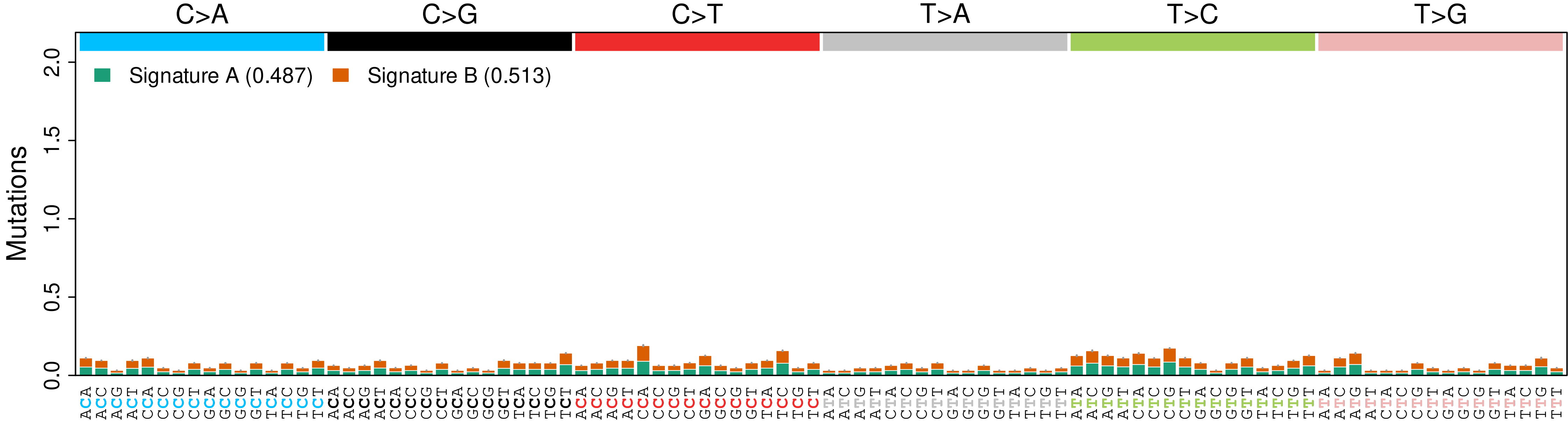
Reconstructed spectrum (cosine similarity = 0.284)



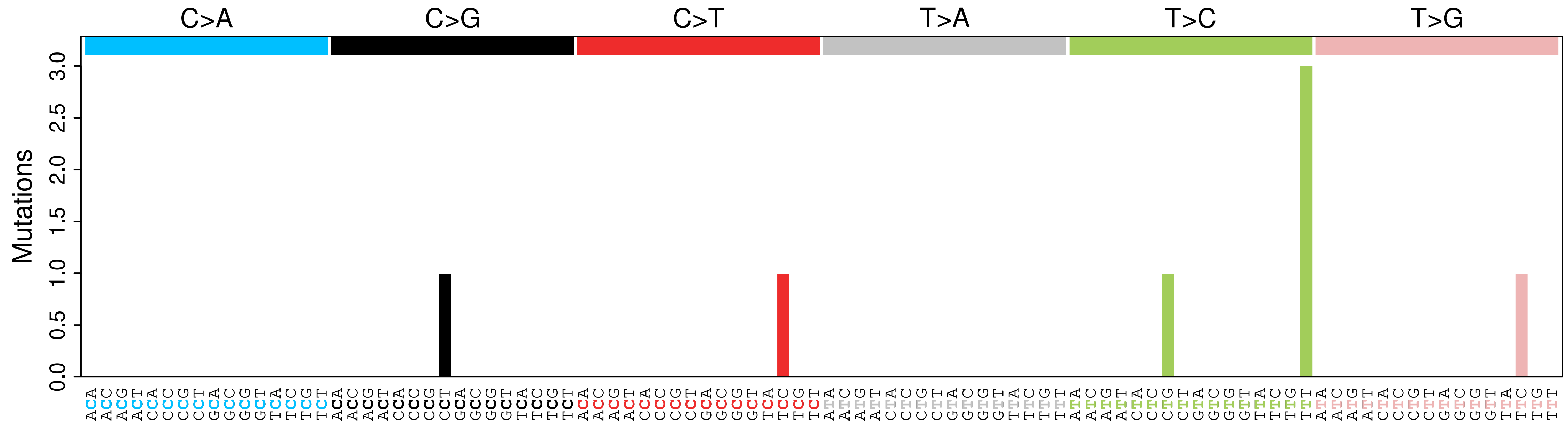
CATD188a (6 mutations)



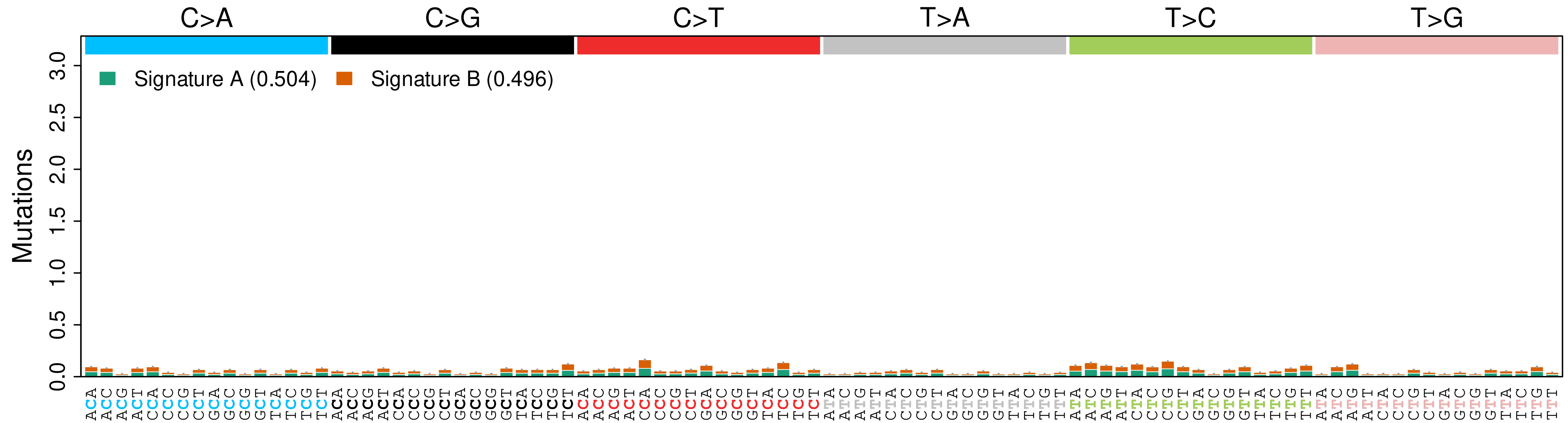
Reconstructed spectrum (cosine similarity = 0.275)



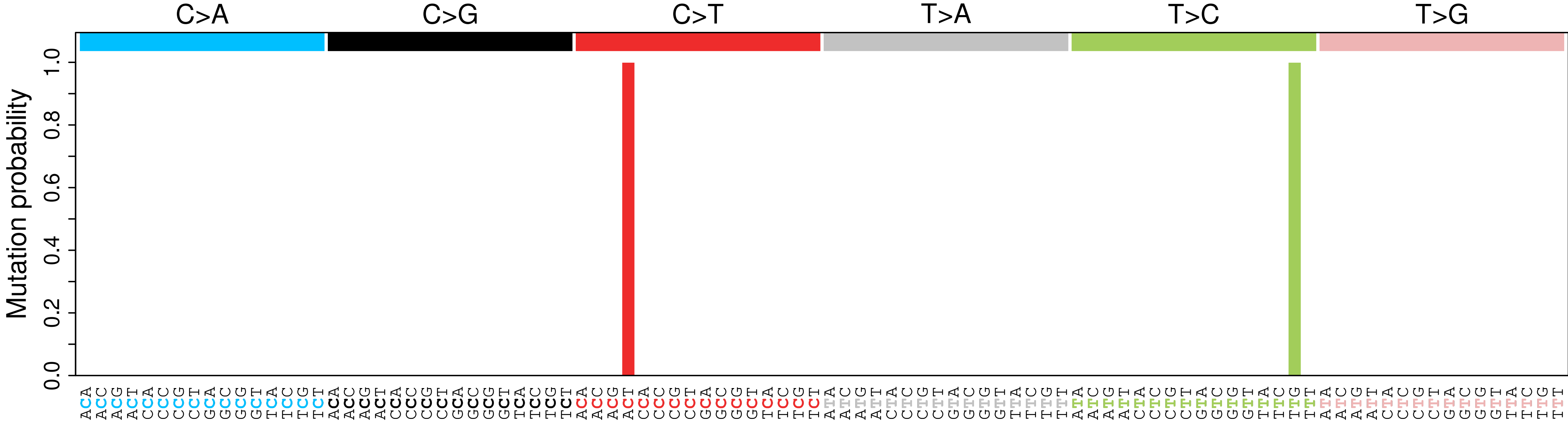
CATD0401a (7 mutations)



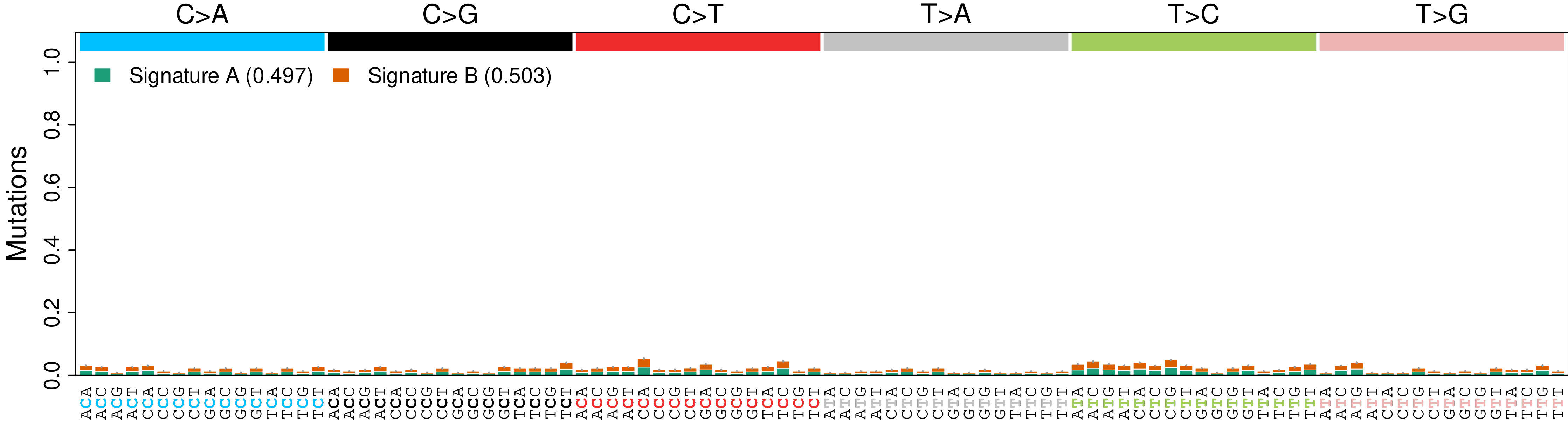
Reconstructed spectrum (cosine similarity = 0.296)



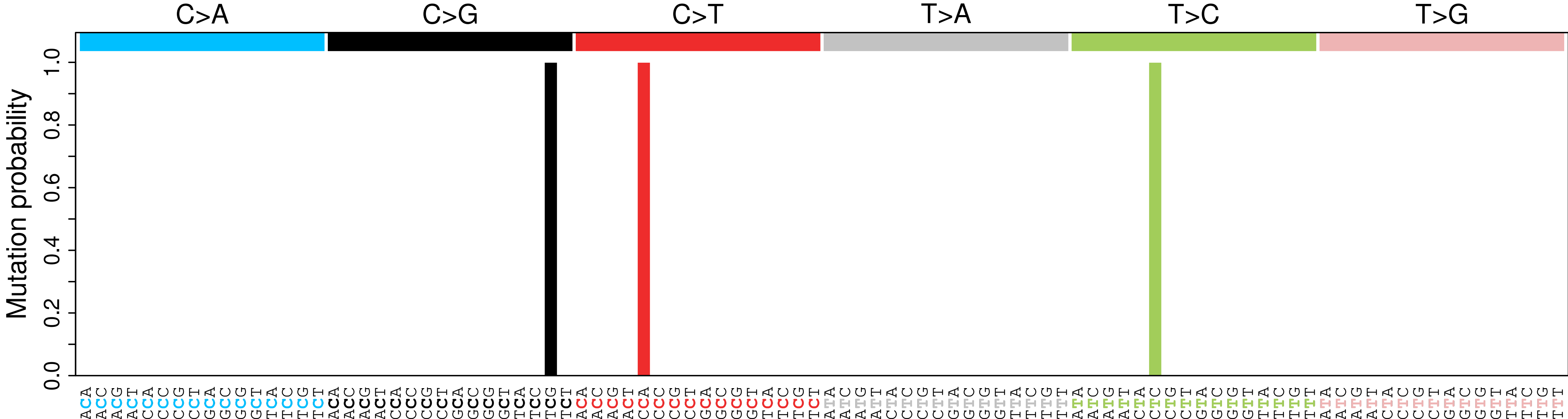
CATD0096a



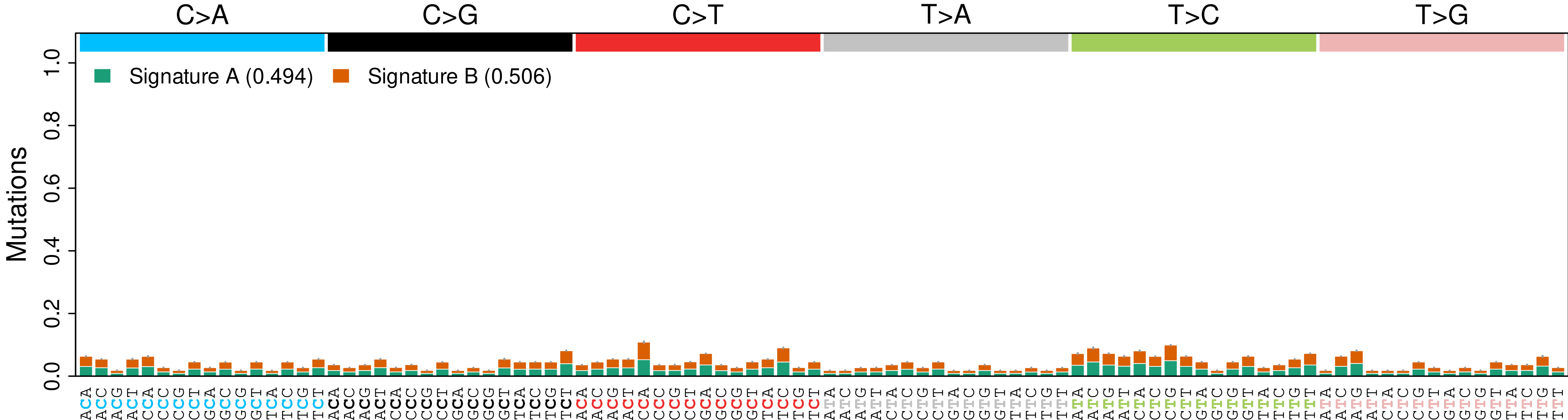
Reconstructed spectrum (cosine similarity = 0.168)



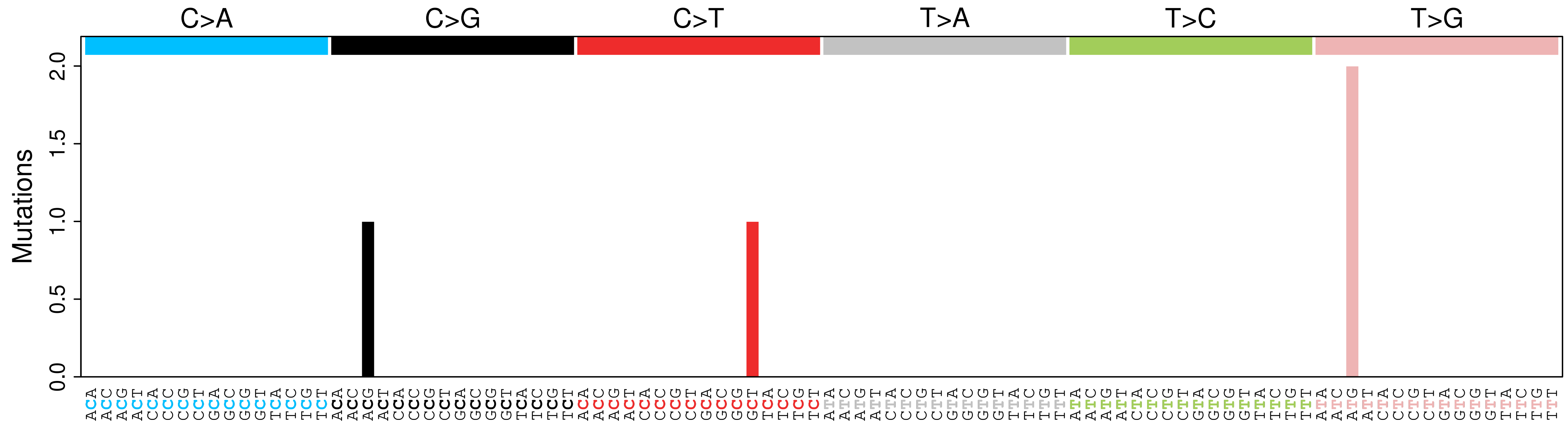
CATD0113a



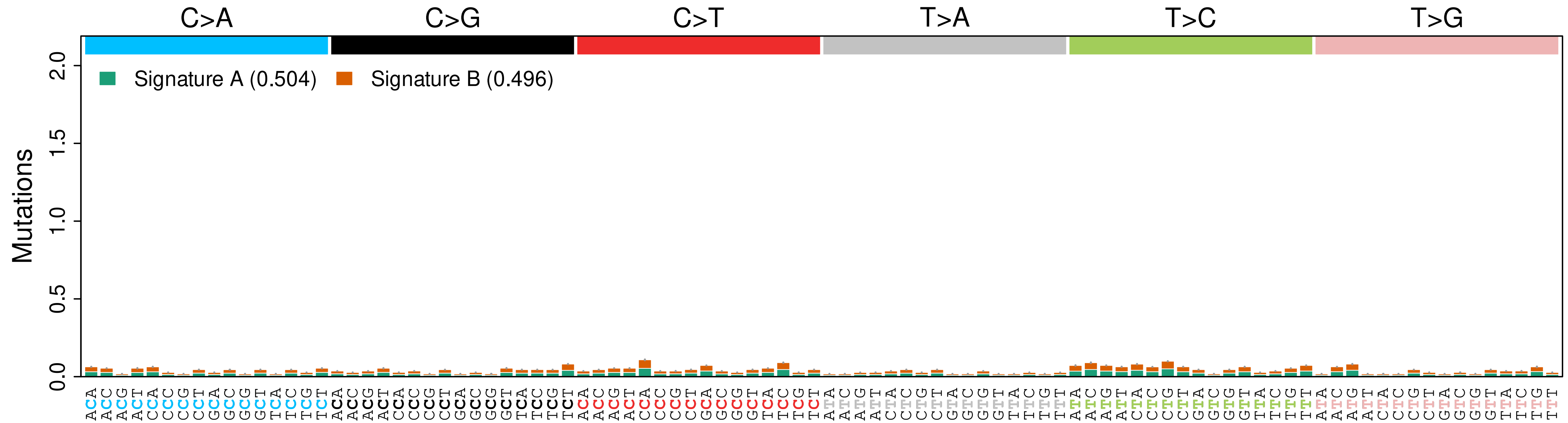
Reconstructed spectrum (cosine similarity = 0.274)



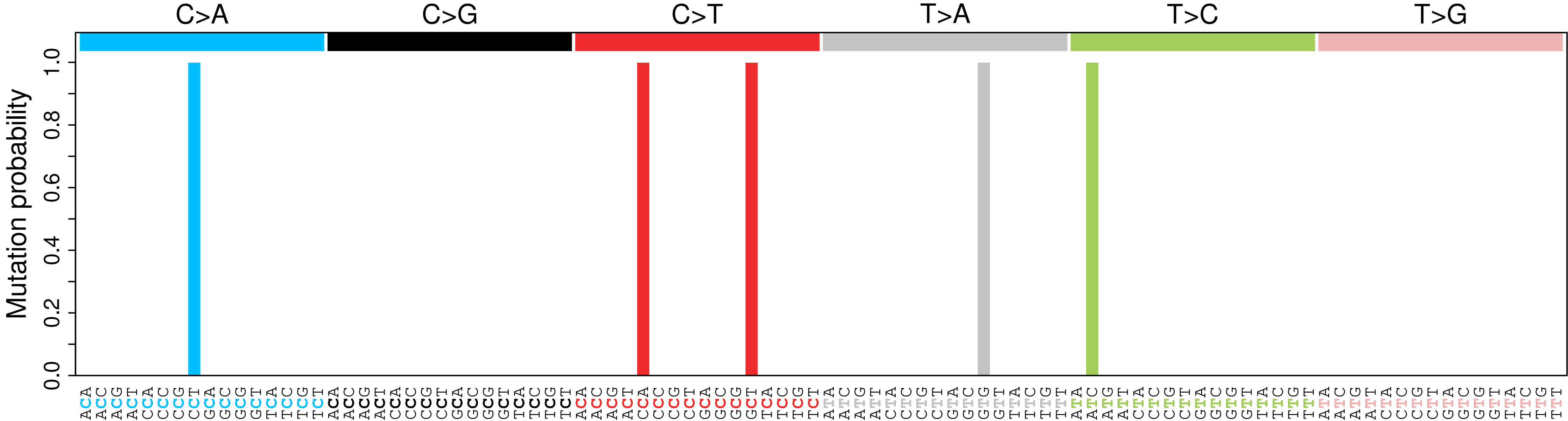
CATD0403a (4 mutations)



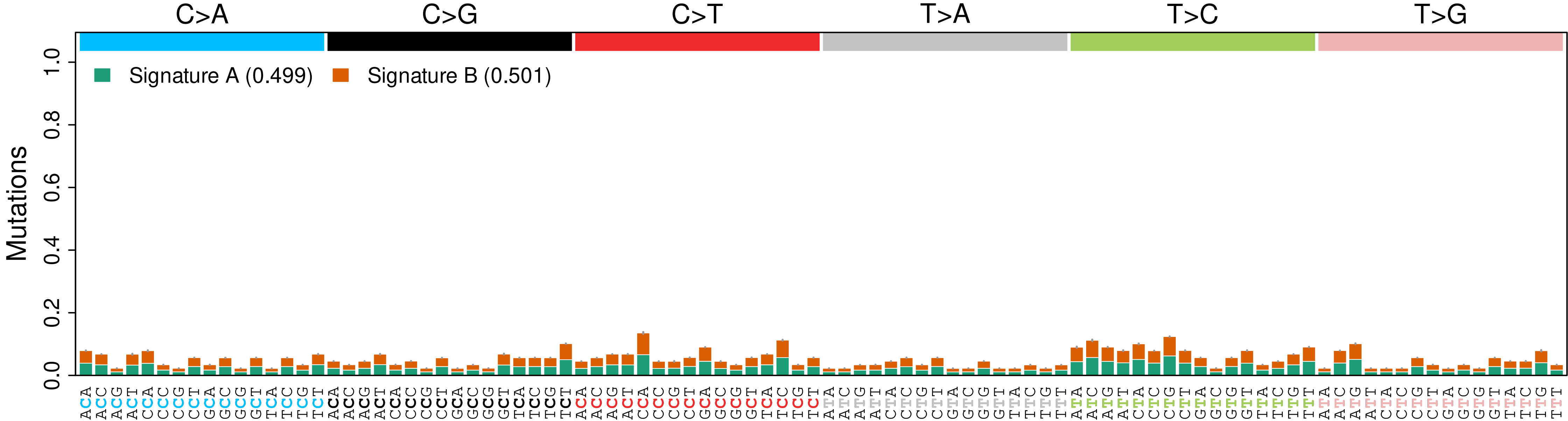
Reconstructed spectrum (cosine similarity = 0.218)



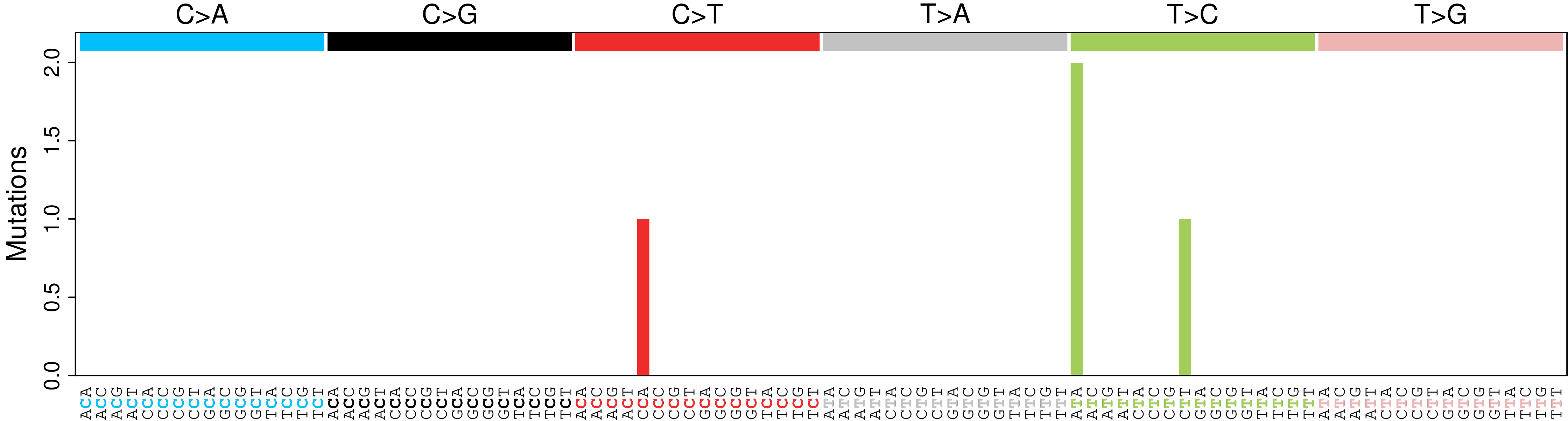
CATD0085a



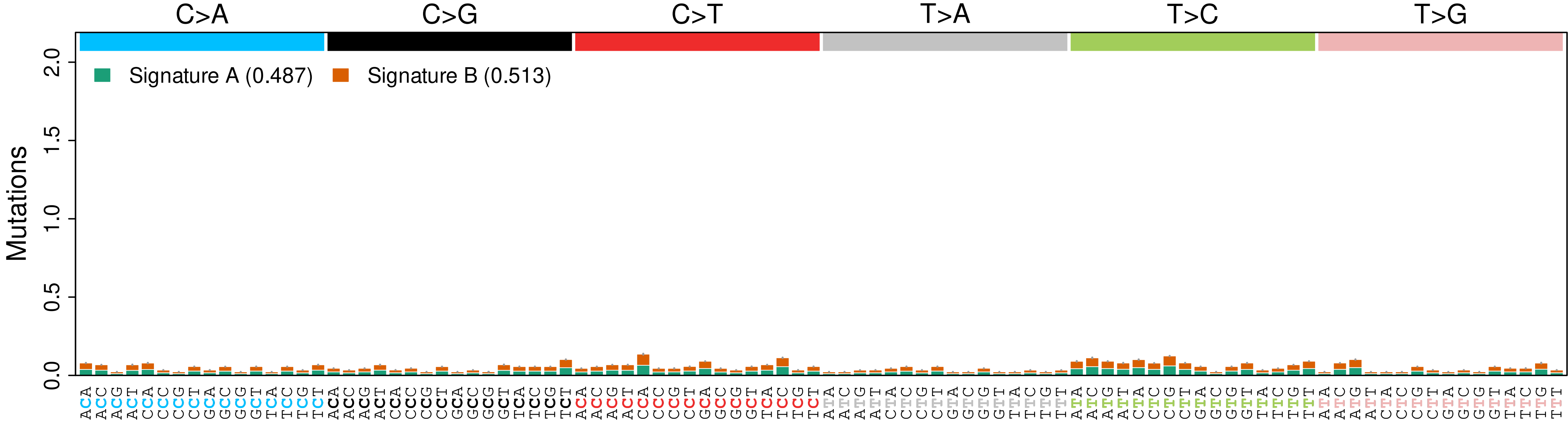
Reconstructed spectrum (cosine similarity = 0.319)



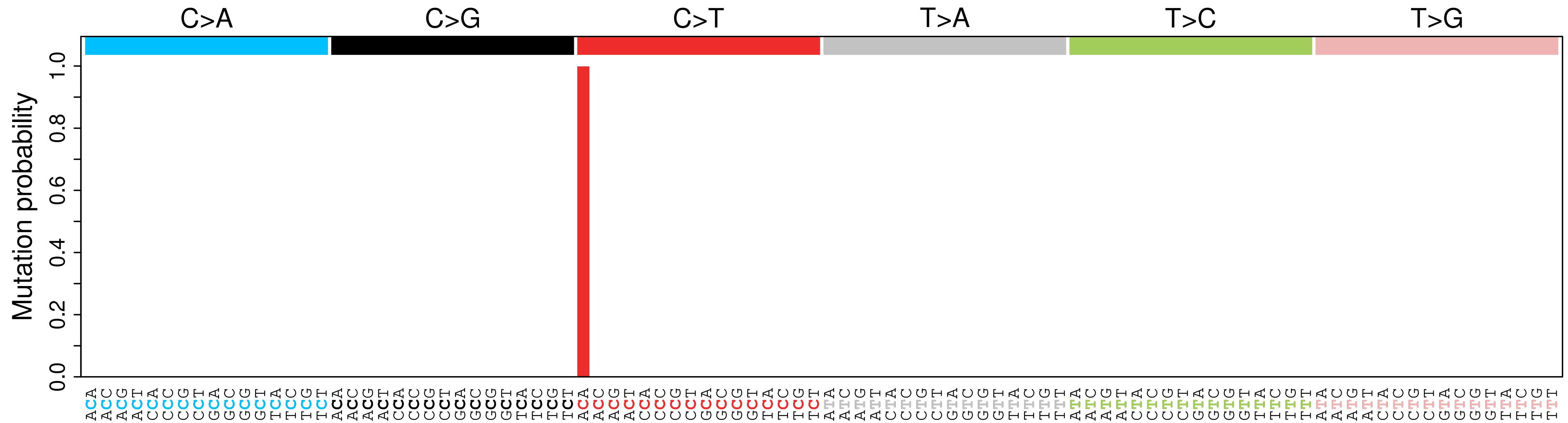
CATD190a (4 mutations)



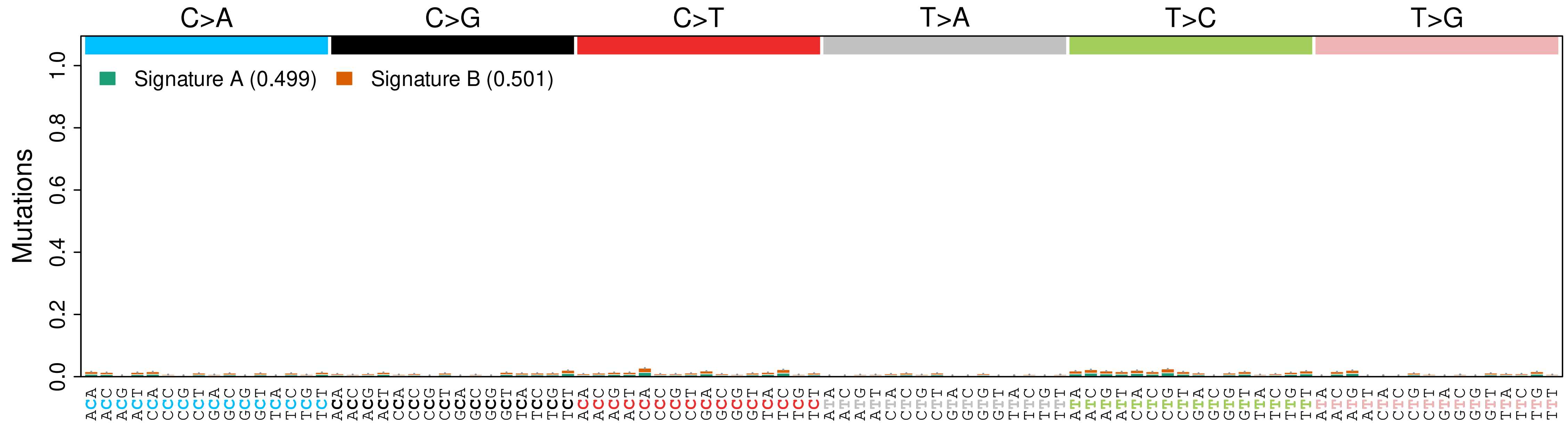
Reconstructed spectrum (cosine similarity = 0.283)



CATD0109a



Reconstructed spectrum (cosine similarity = 0.079)



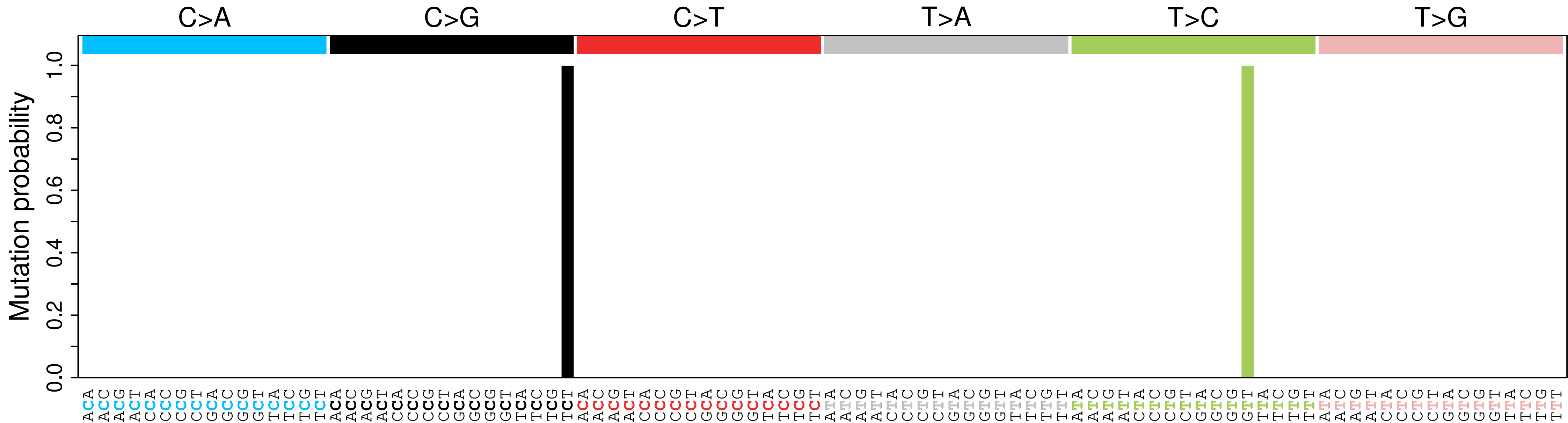
CATD0415a



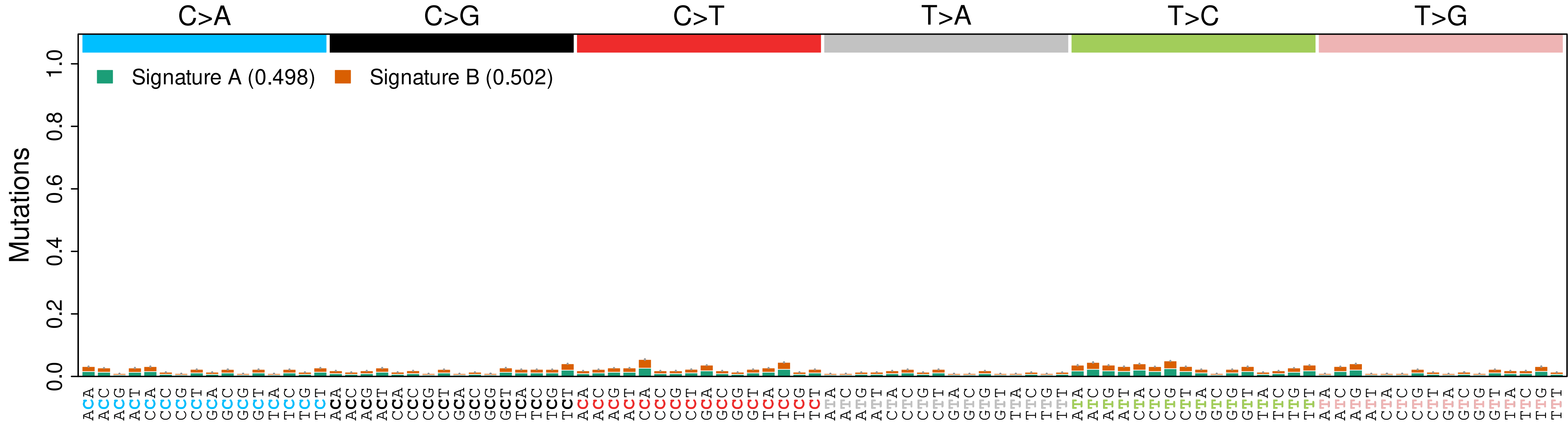
Reconstructed spectrum (cosine similarity = 0.247)



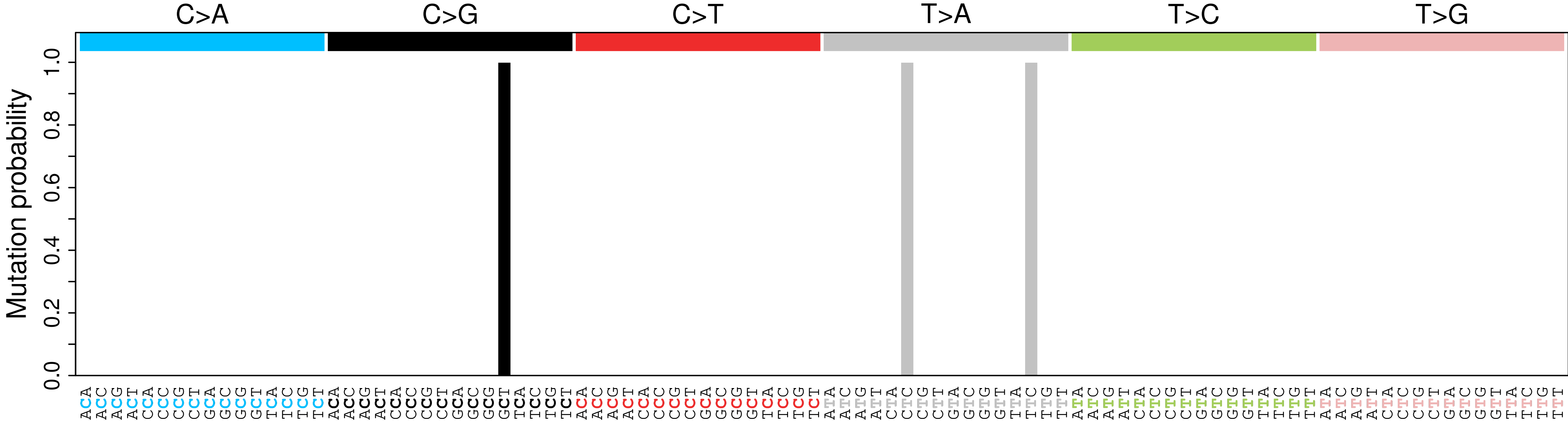
CATD191a



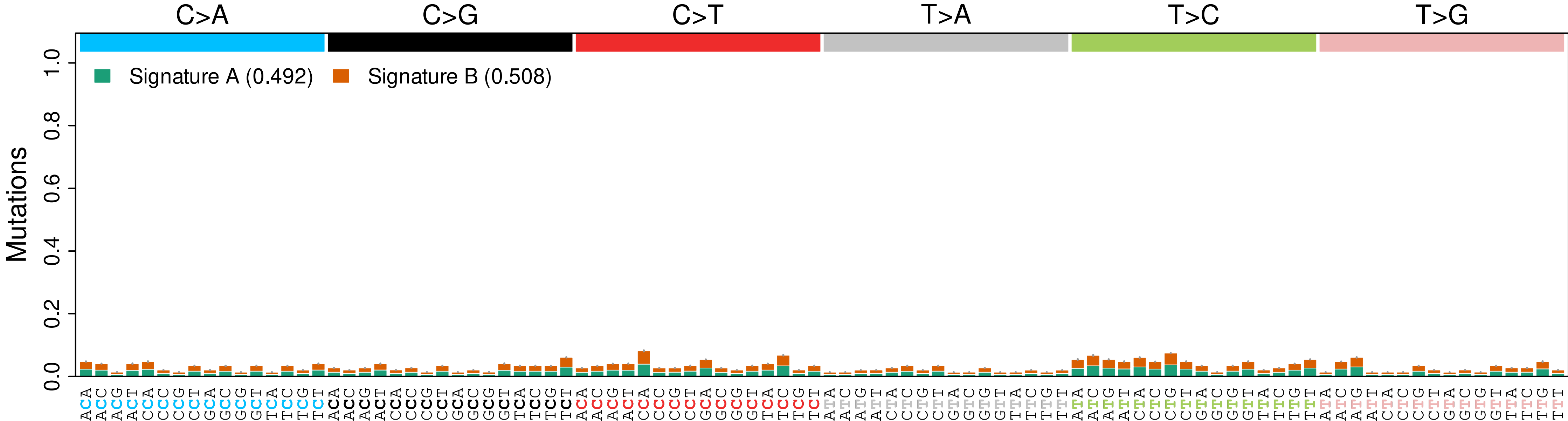
Reconstructed spectrum (cosine similarity = 0.224)



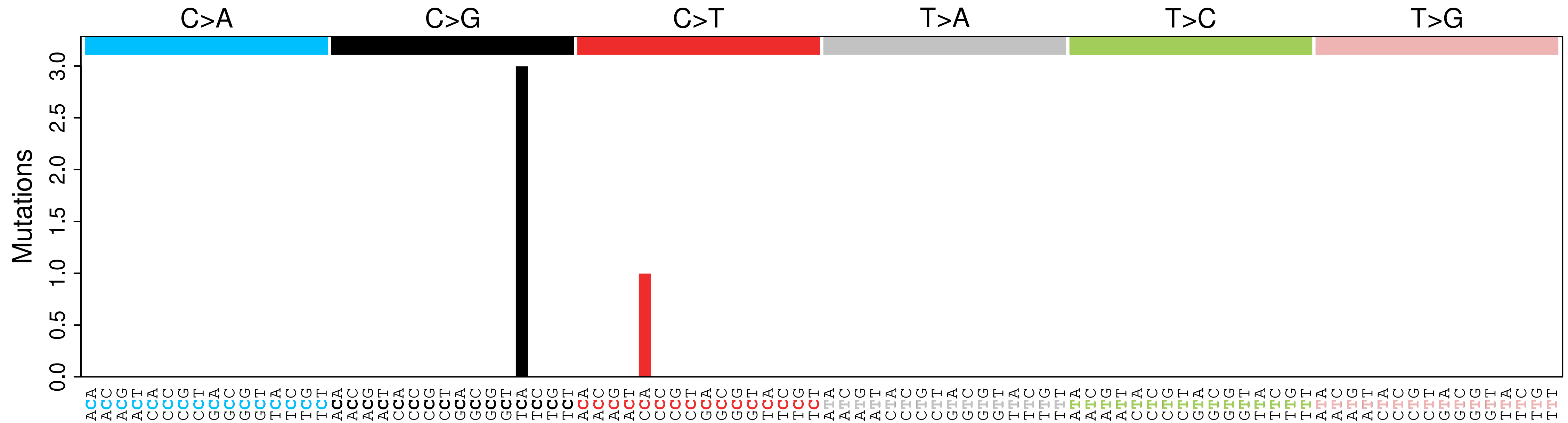
CATD0093a



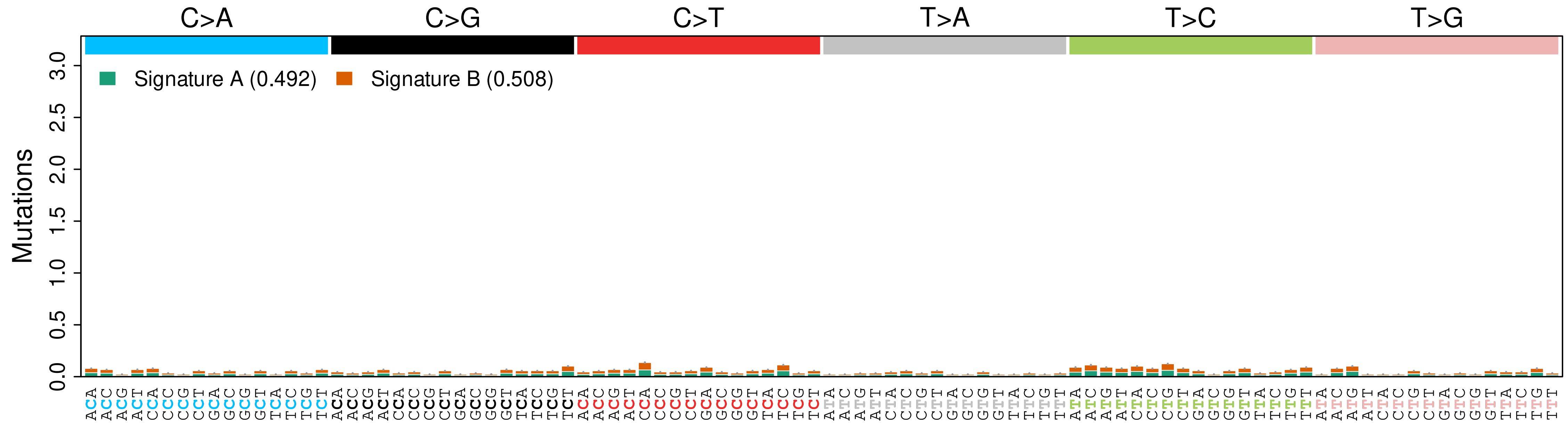
Reconstructed spectrum (cosine similarity = 0.16)



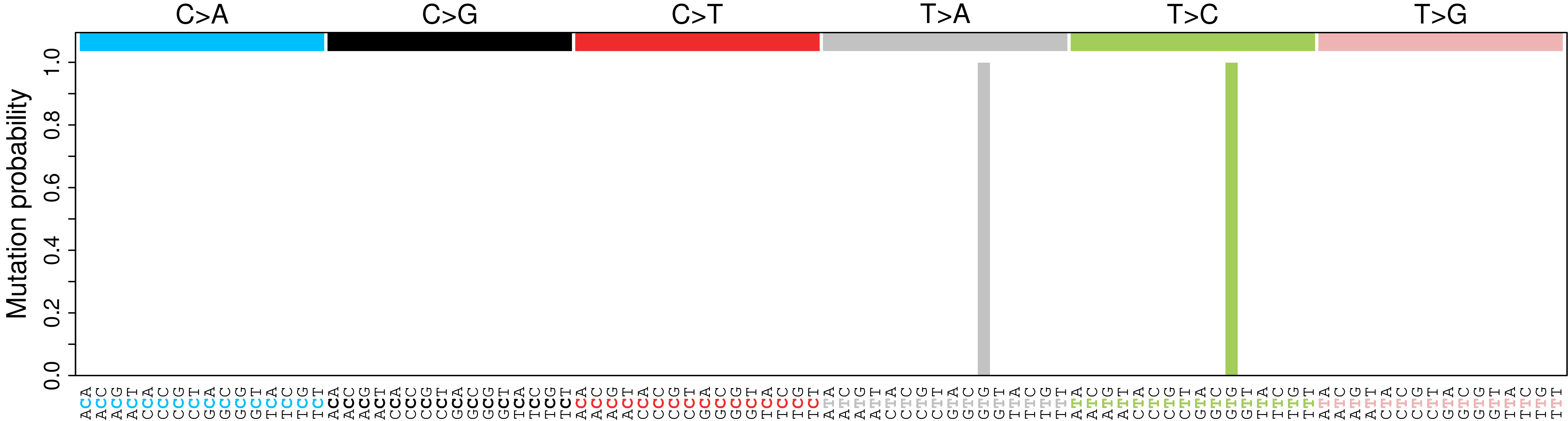
CATD0407a (4 mutations)



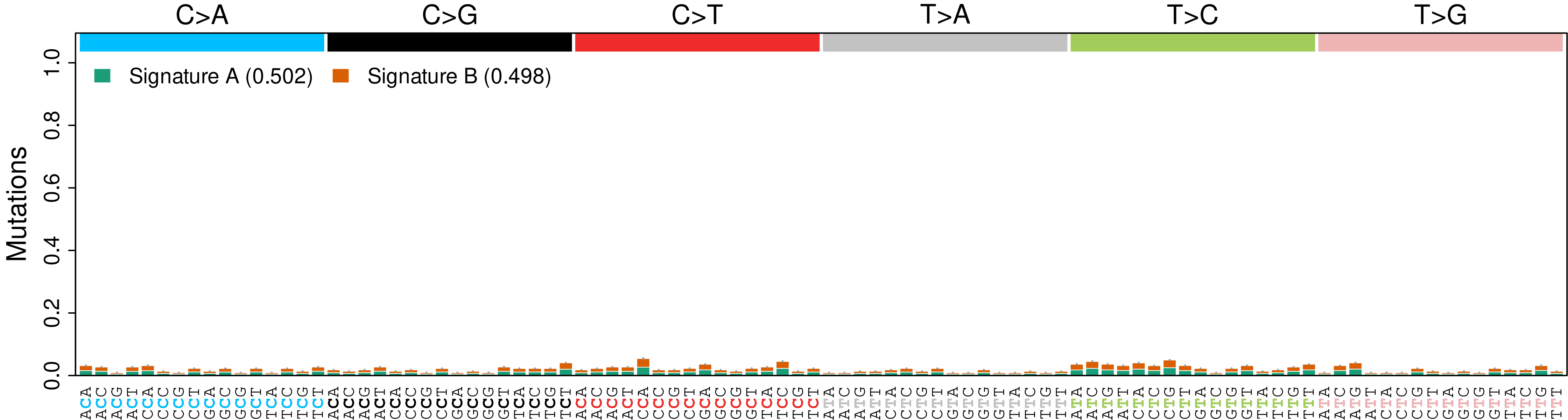
Reconstructed spectrum (cosine similarity = 0.169)



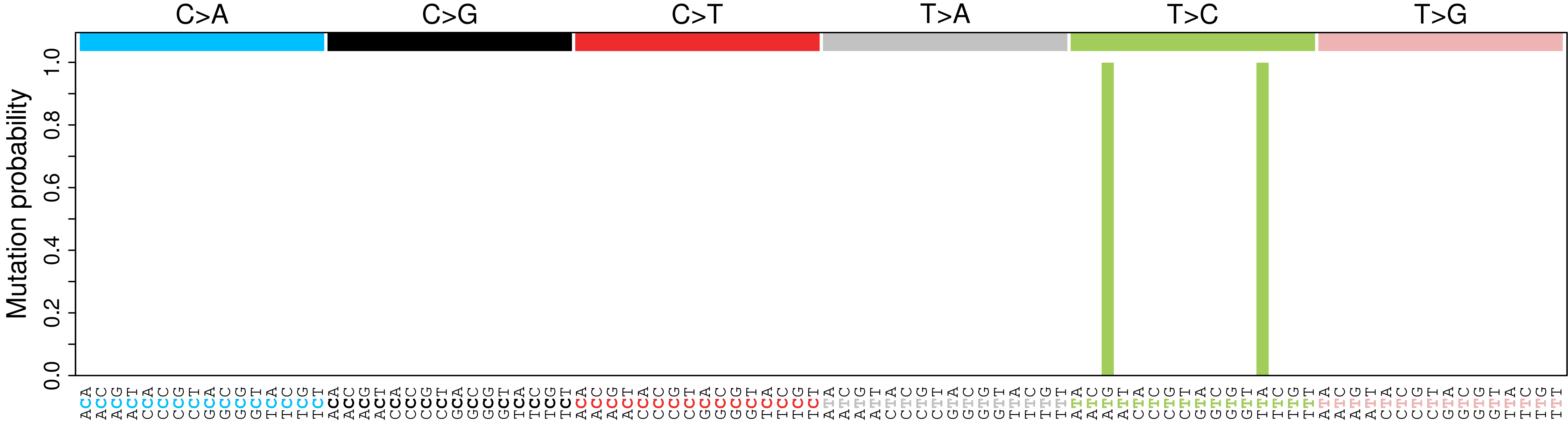
CATD0413a



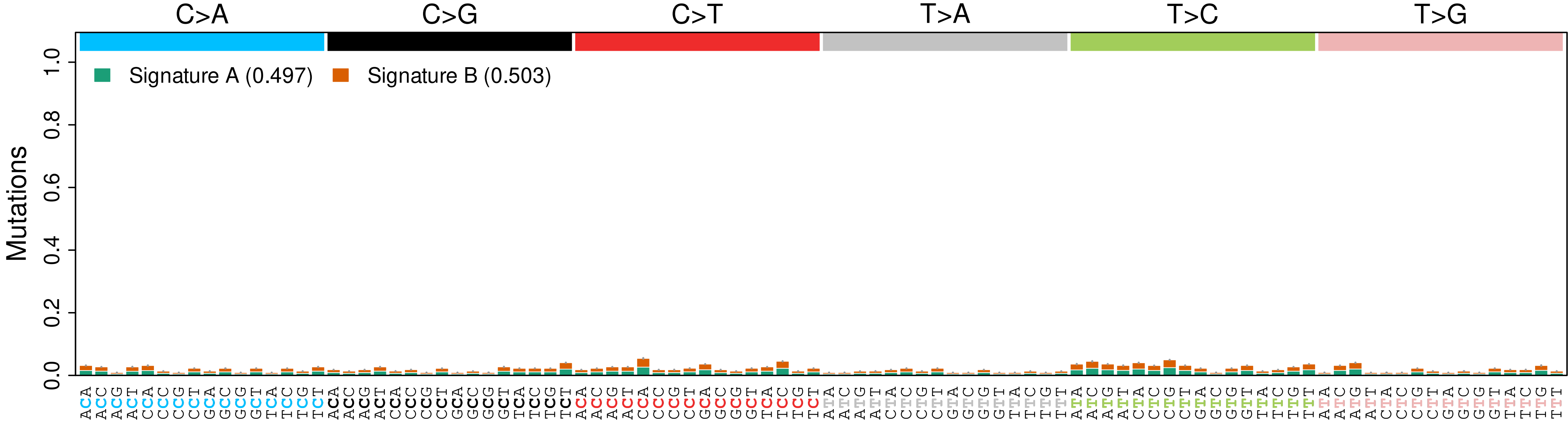
Reconstructed spectrum (cosine similarity = 0.126)



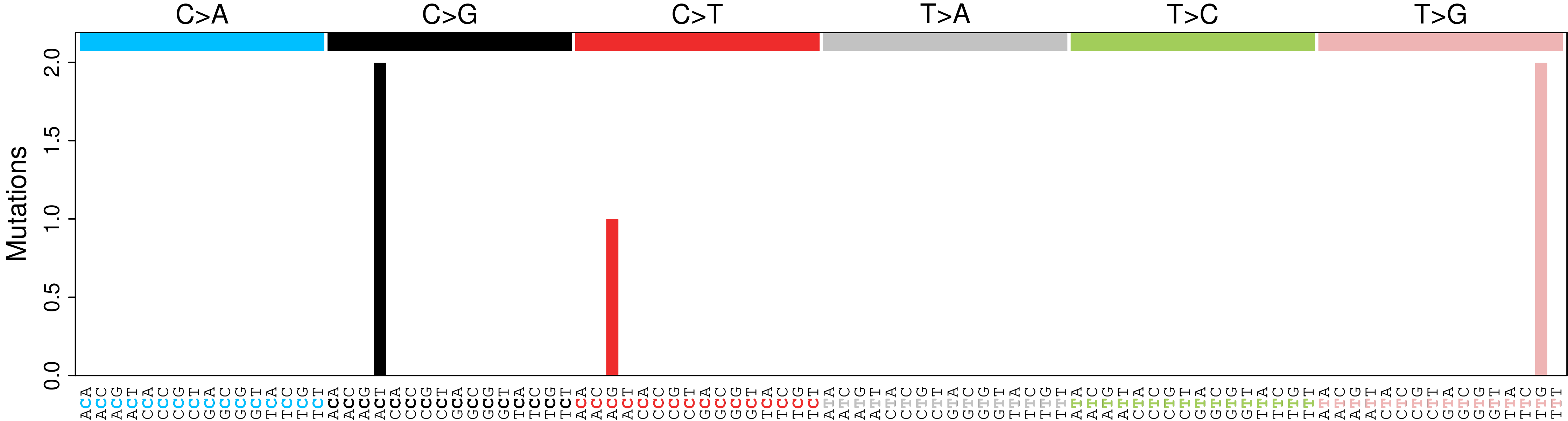
CATD0104a



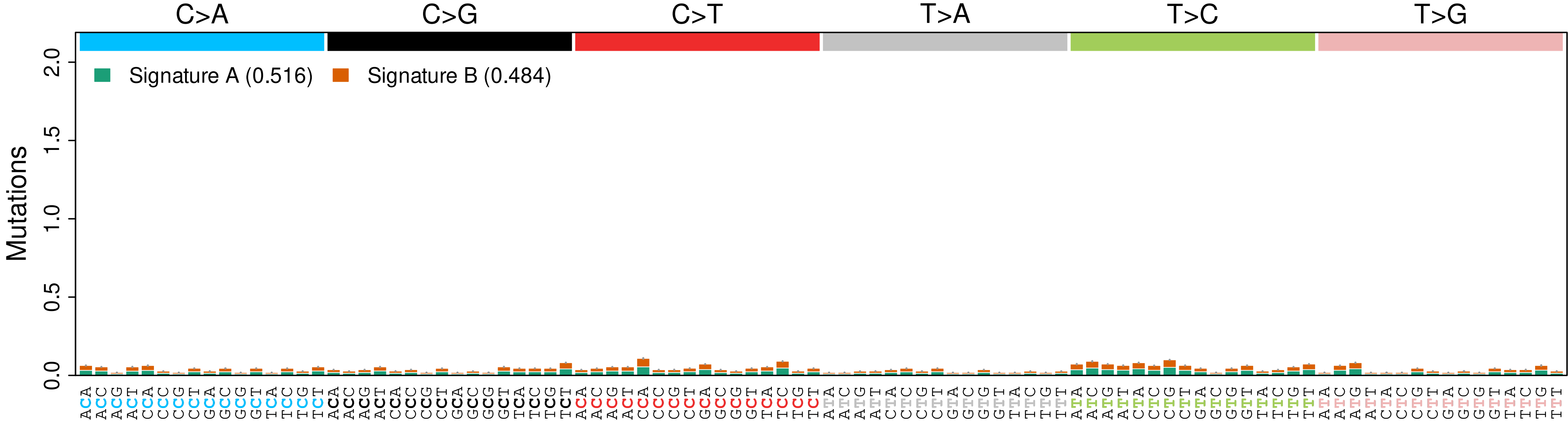
Reconstructed spectrum (cosine similarity = 0.154)



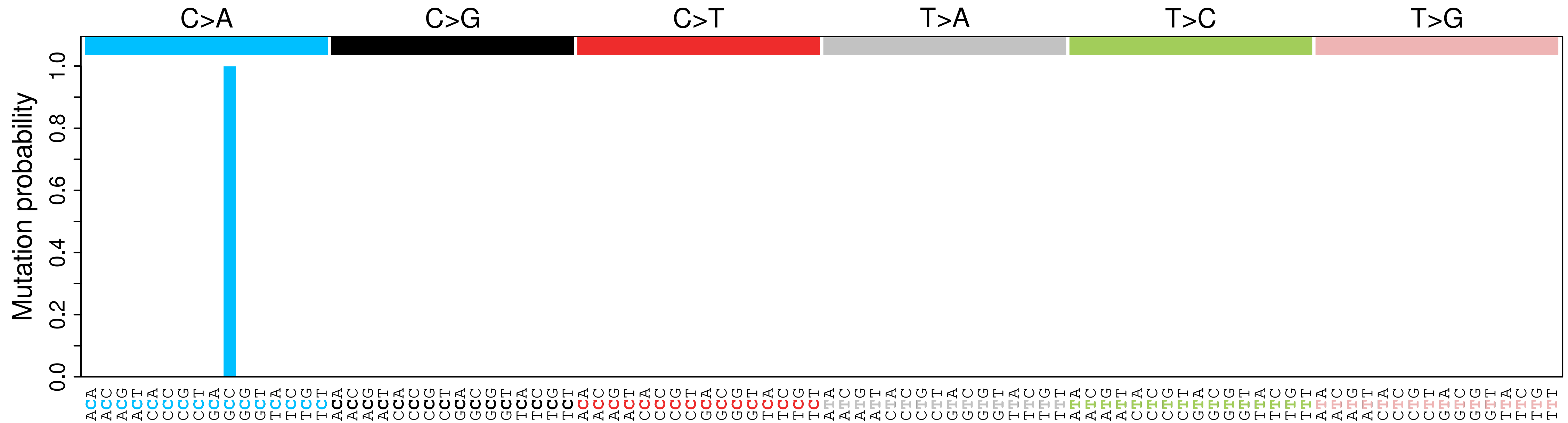
CATD0409a (5 mutations)



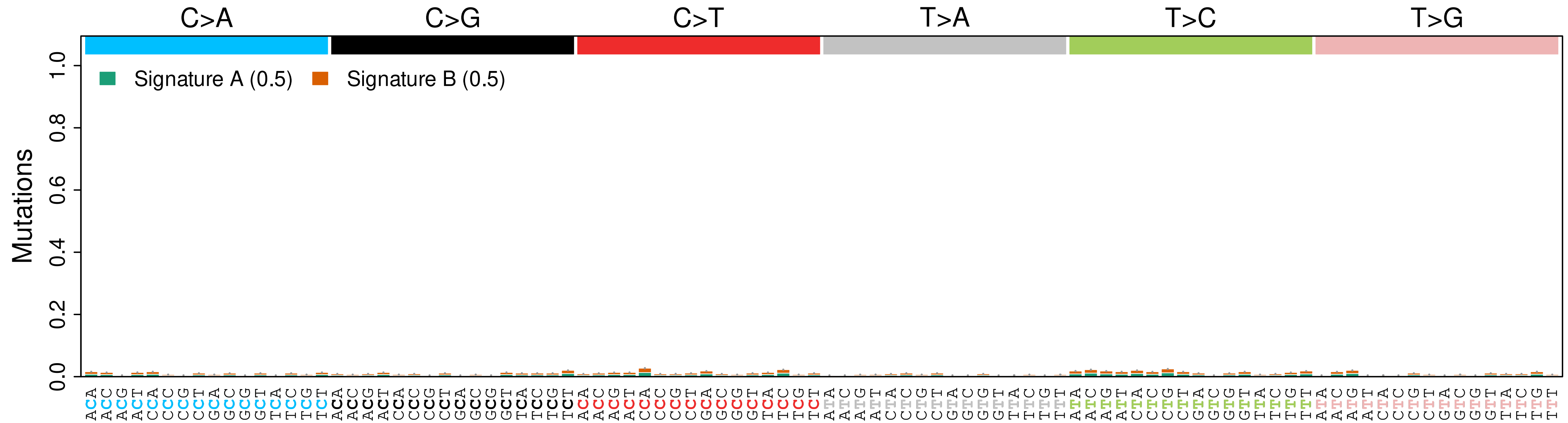
Reconstructed spectrum (cosine similarity = 0.211)

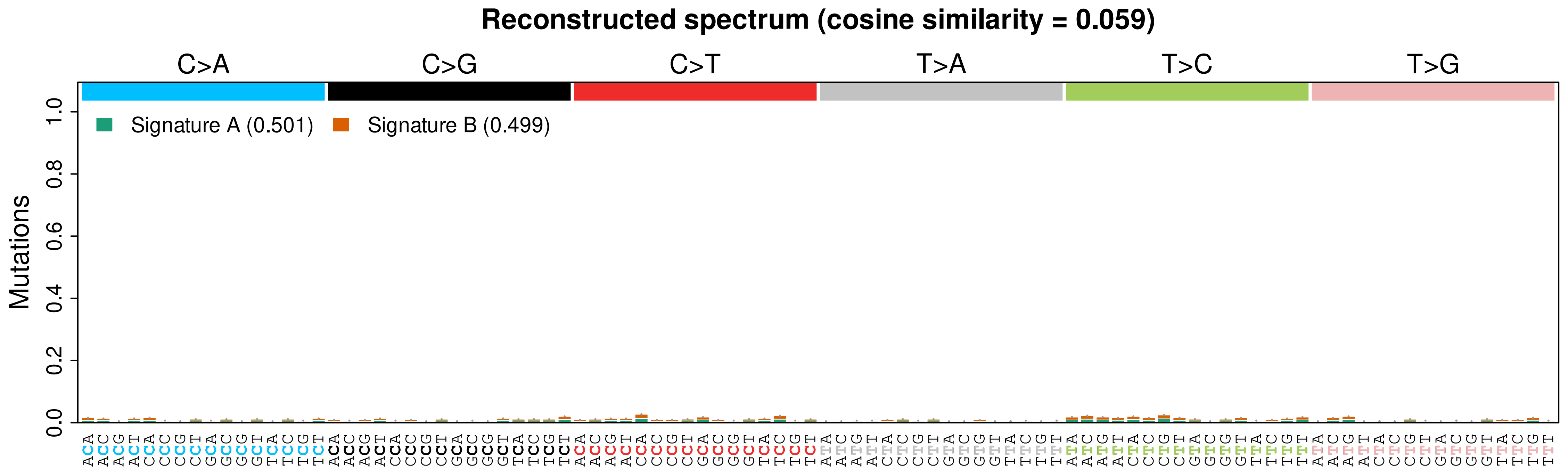
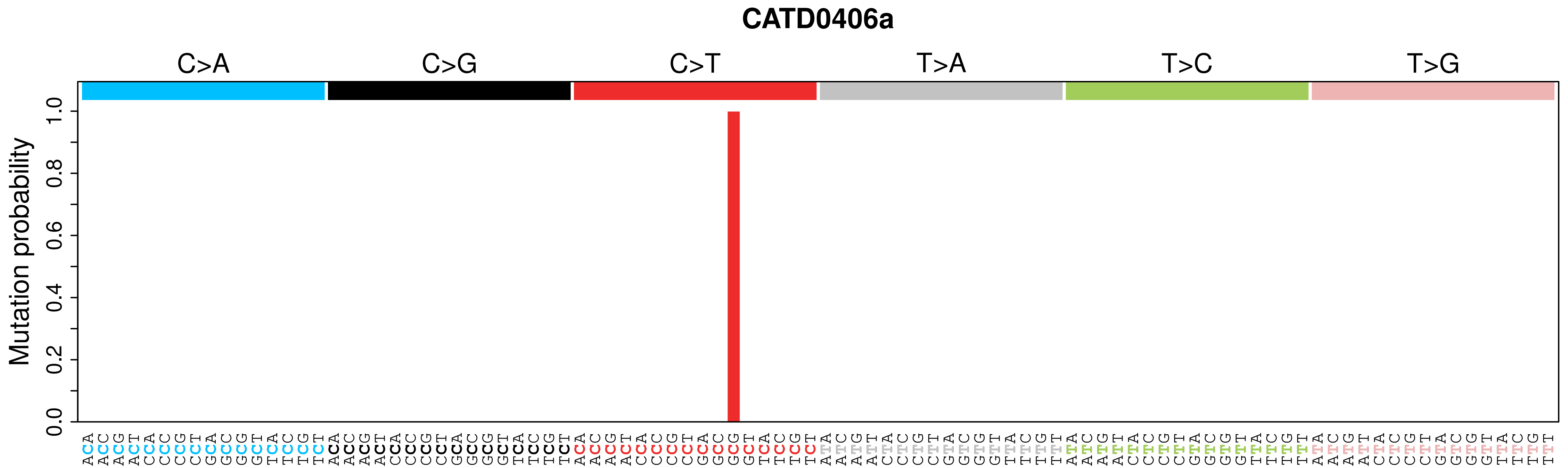


CATD0116a

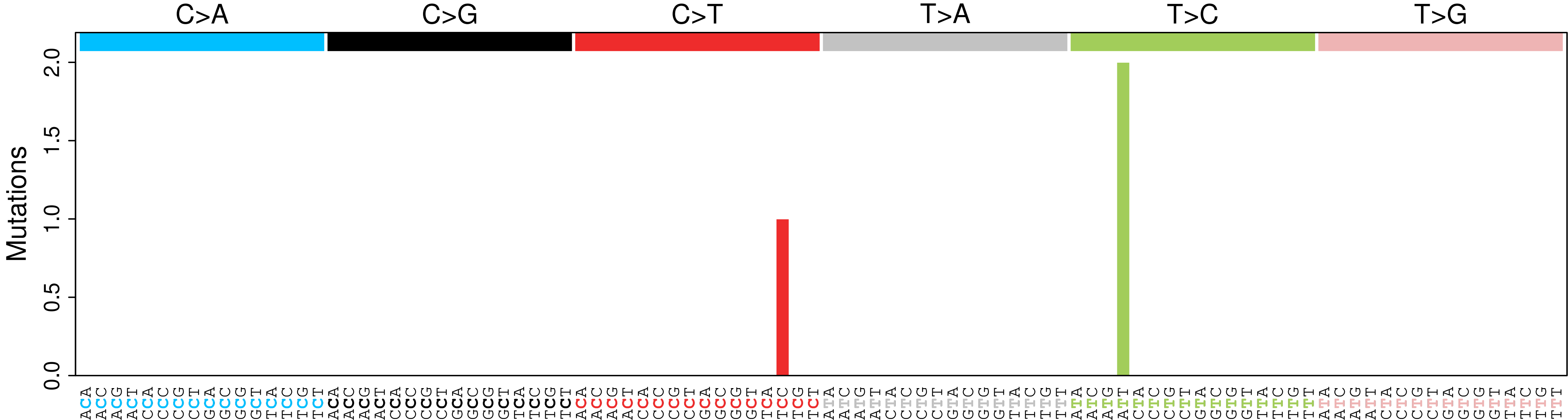


Reconstructed spectrum (cosine similarity = 0.098)

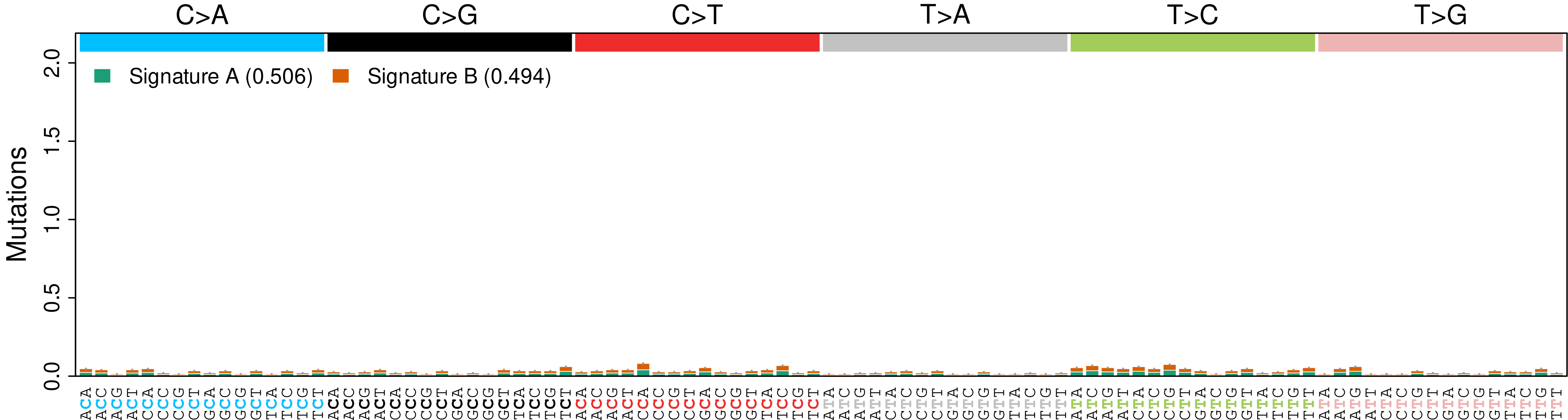




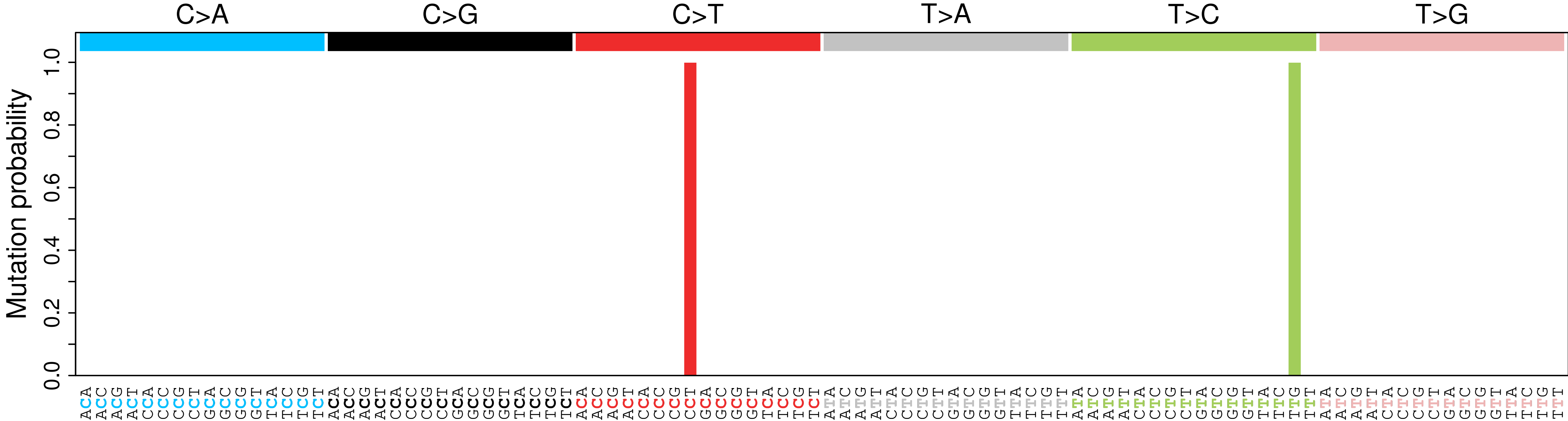
CATD0089a (3 mutations)



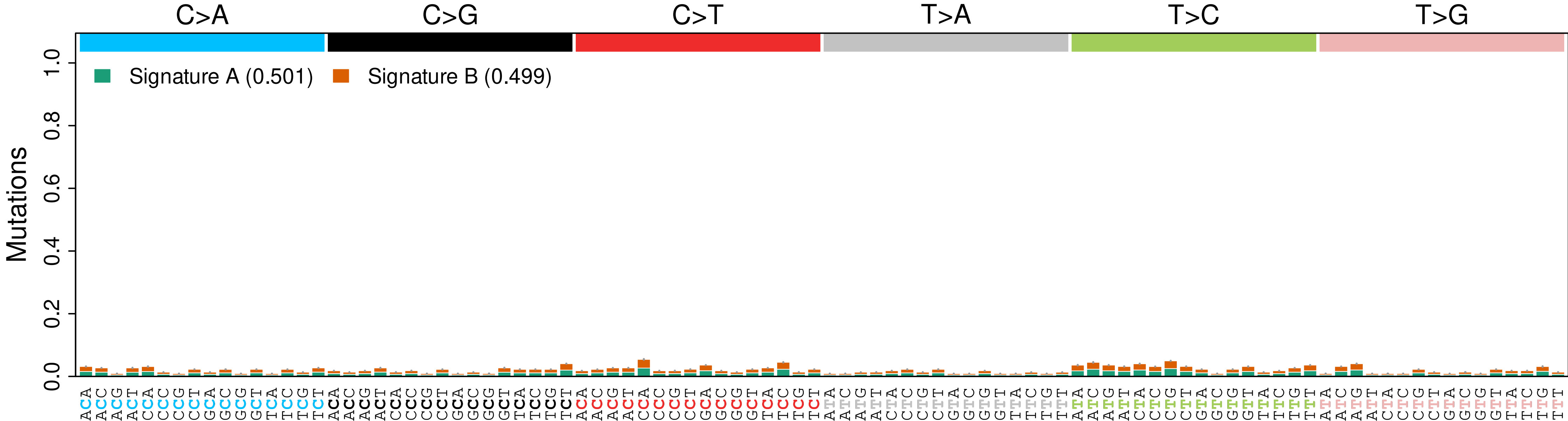
Reconstructed spectrum (cosine similarity = 0.212)



CATD0115a



Reconstructed spectrum (cosine similarity = 0.155)



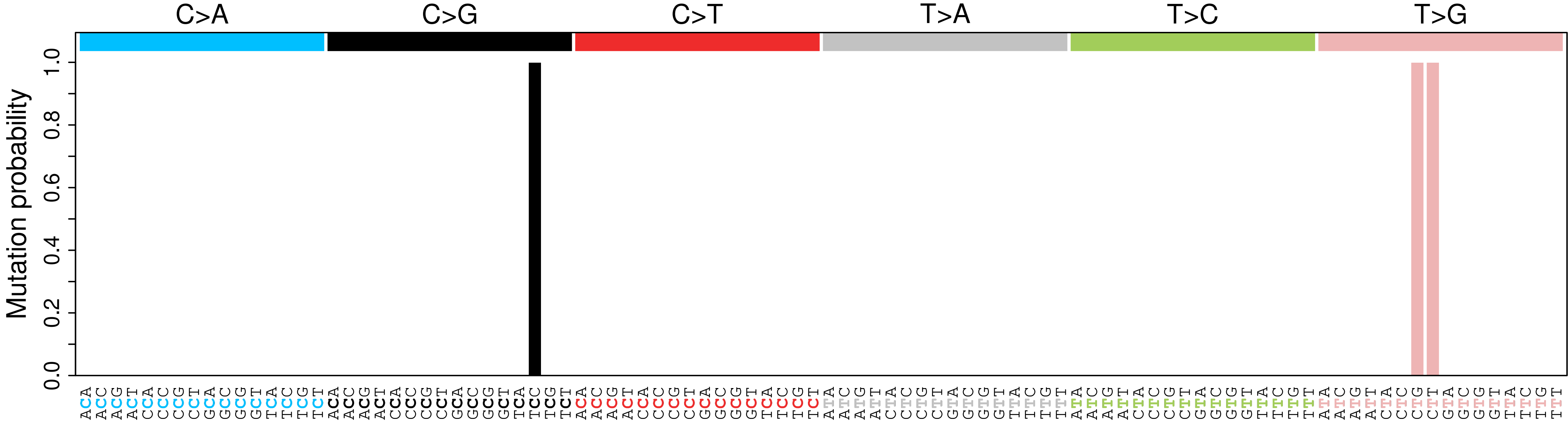
CATD0098a



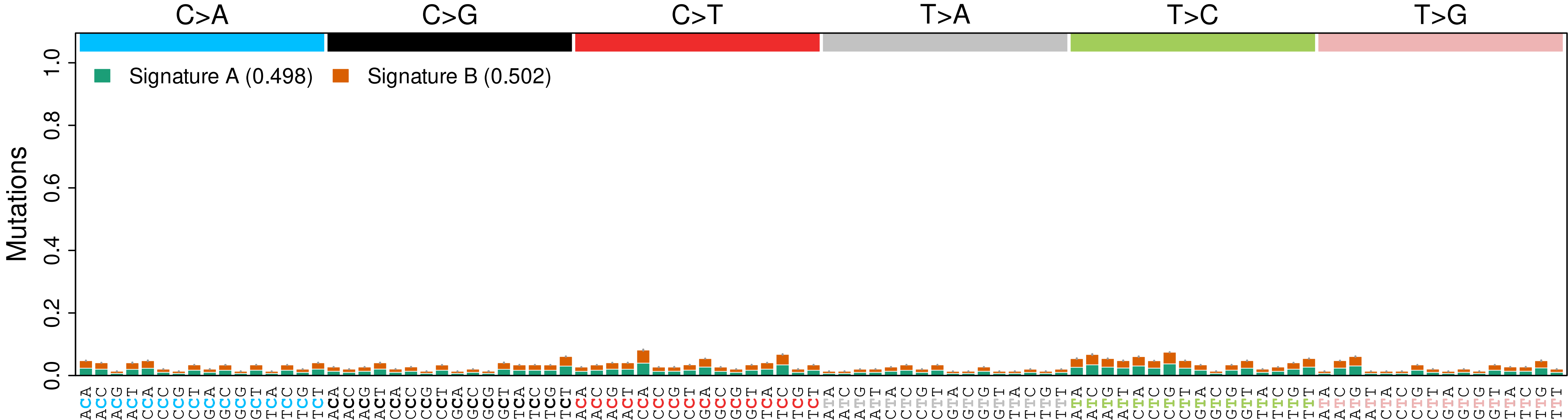
Reconstructed spectrum (cosine similarity = 0.206)



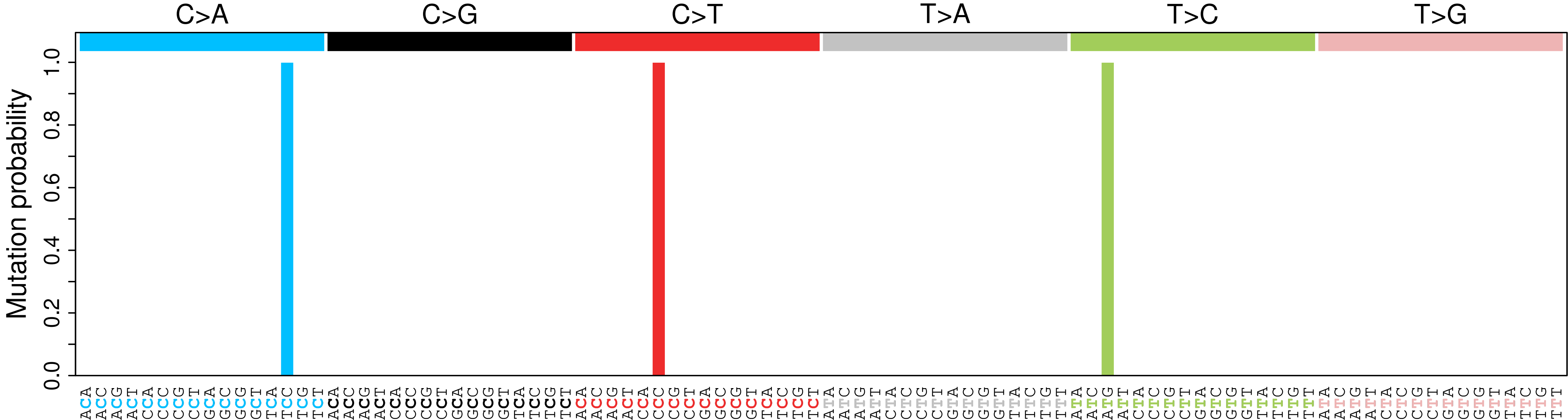
CATD0402a



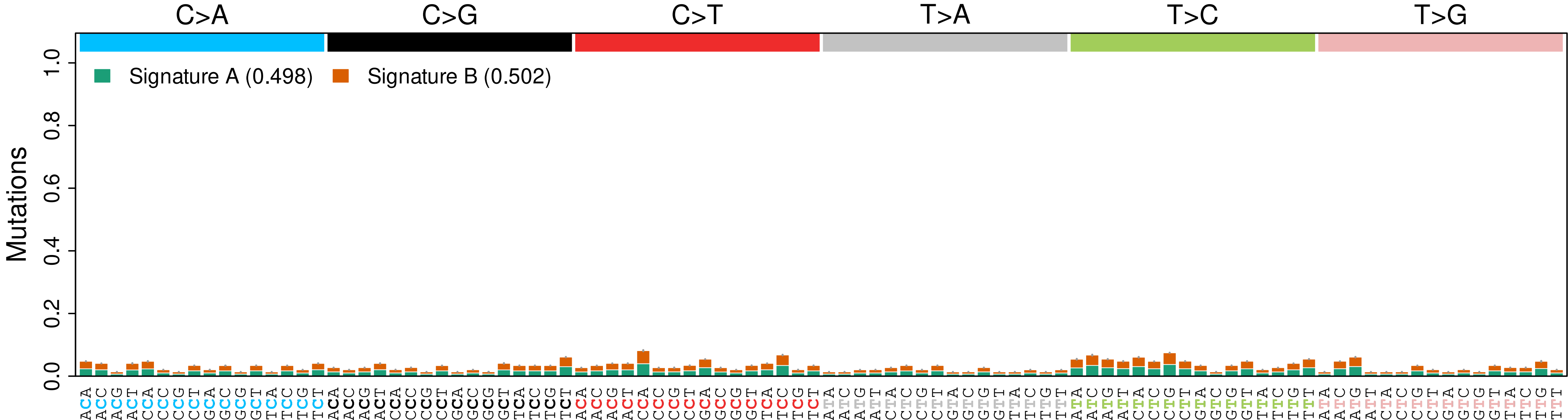
Reconstructed spectrum (cosine similarity = 0.149)



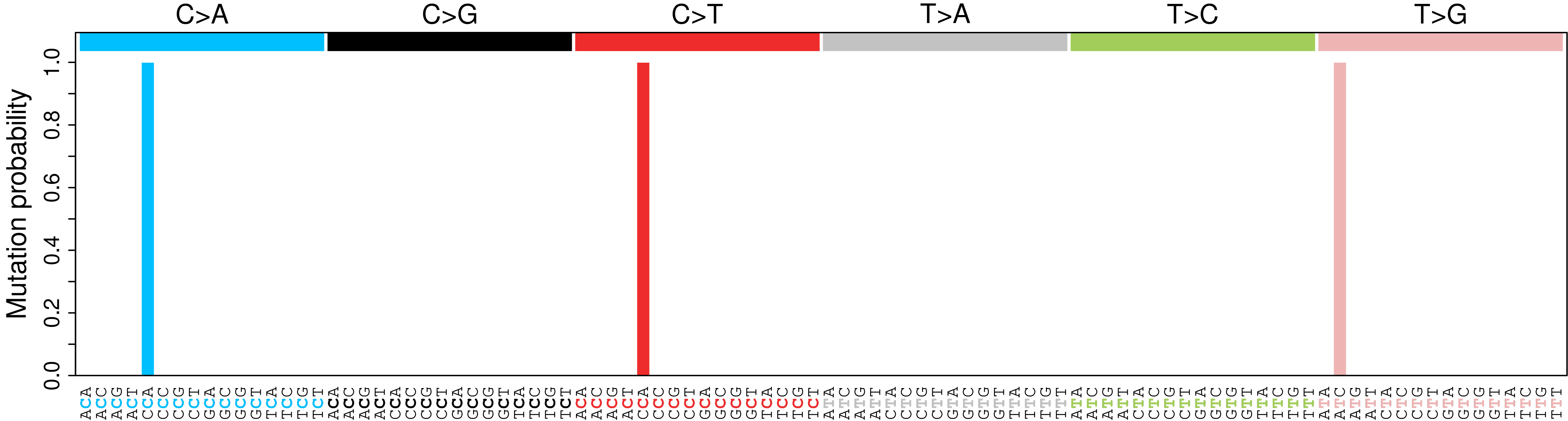
CATD0404a



Reconstructed spectrum (cosine similarity = 0.194)



CATD0408a



Reconstructed spectrum (cosine similarity = 0.297)

