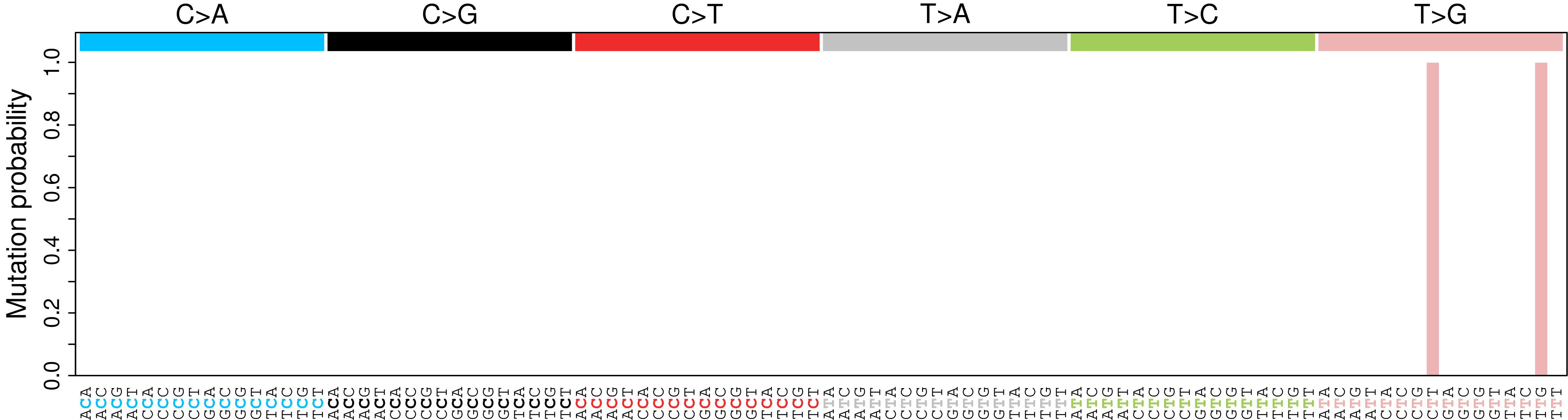
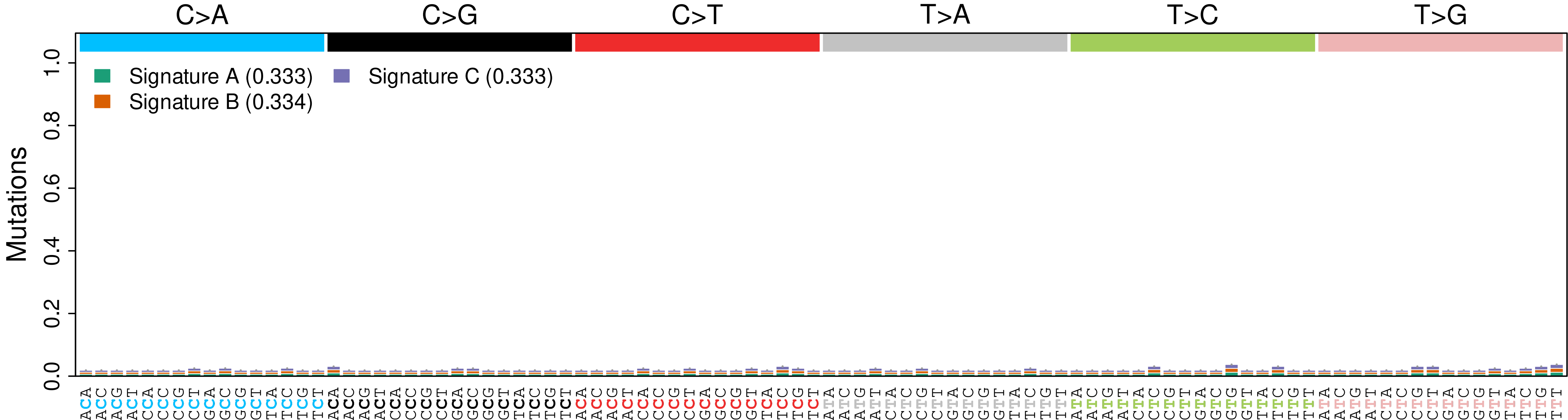




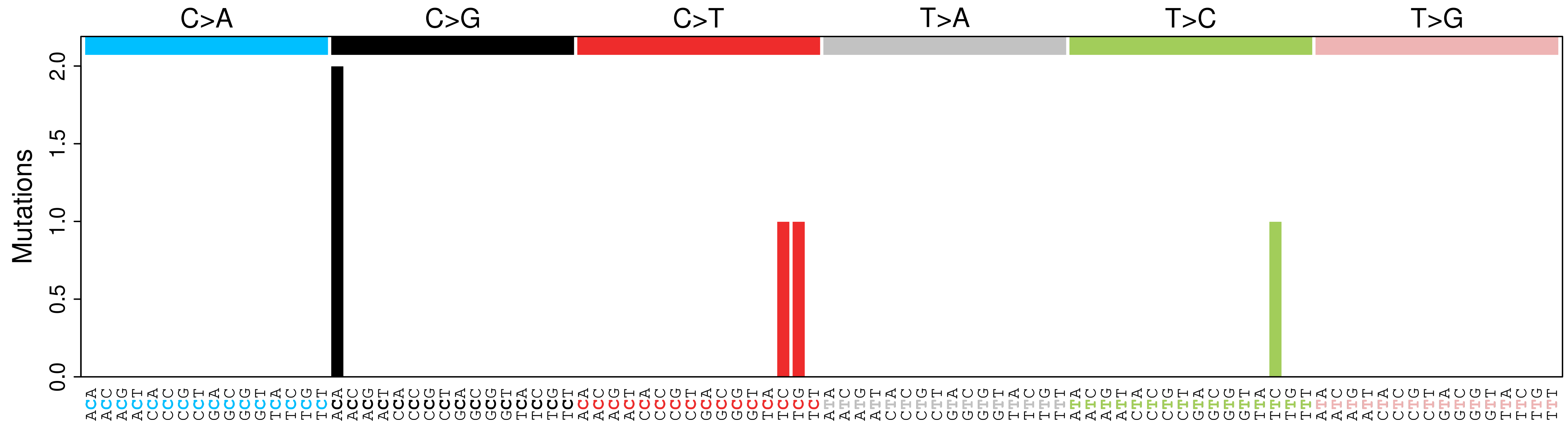
CATD0716a



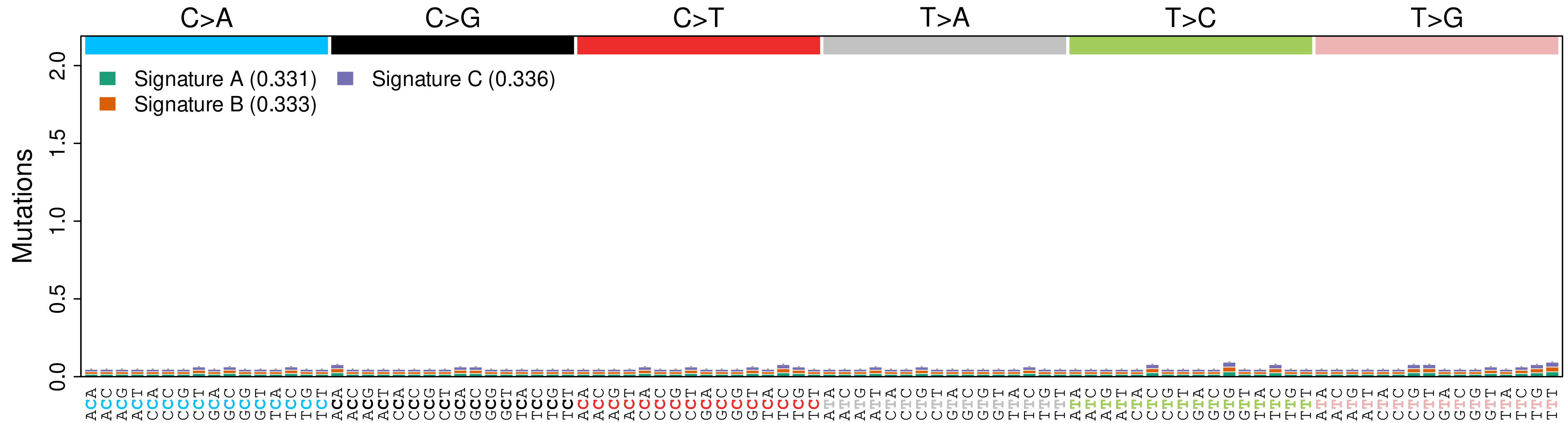
Reconstructed spectrum (cosine similarity = 0.21)



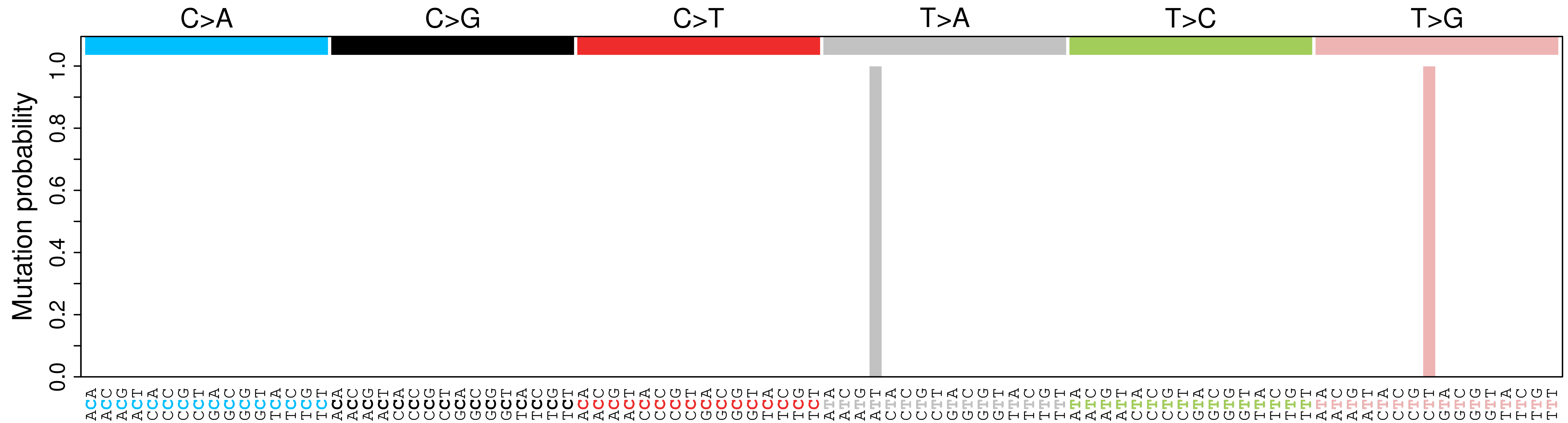
### CATD217a (5 mutations)



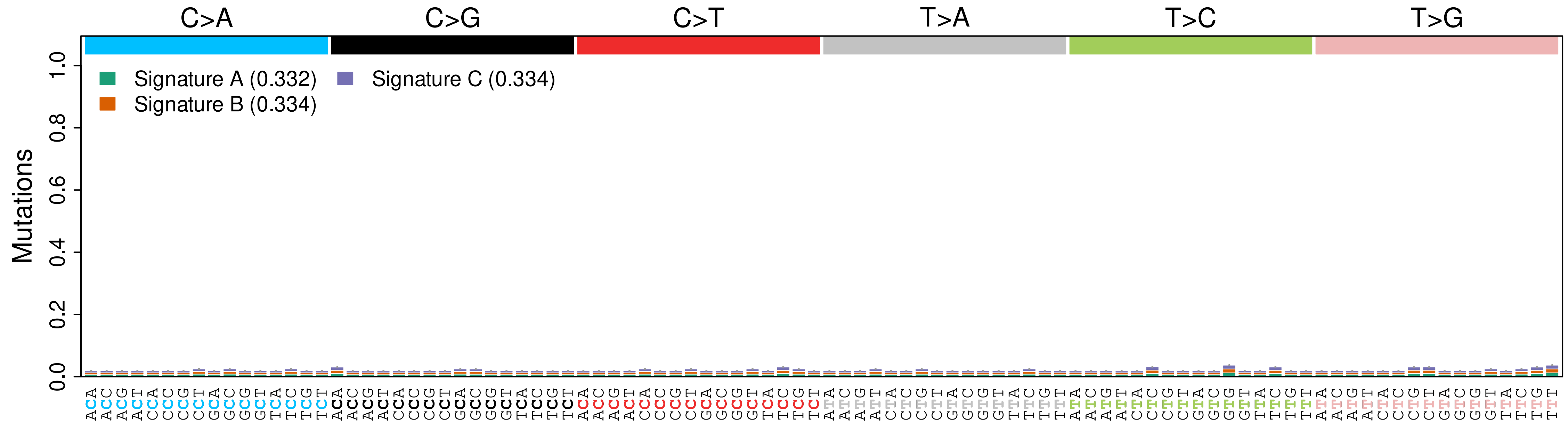
### Reconstructed spectrum (cosine similarity = 0.269)



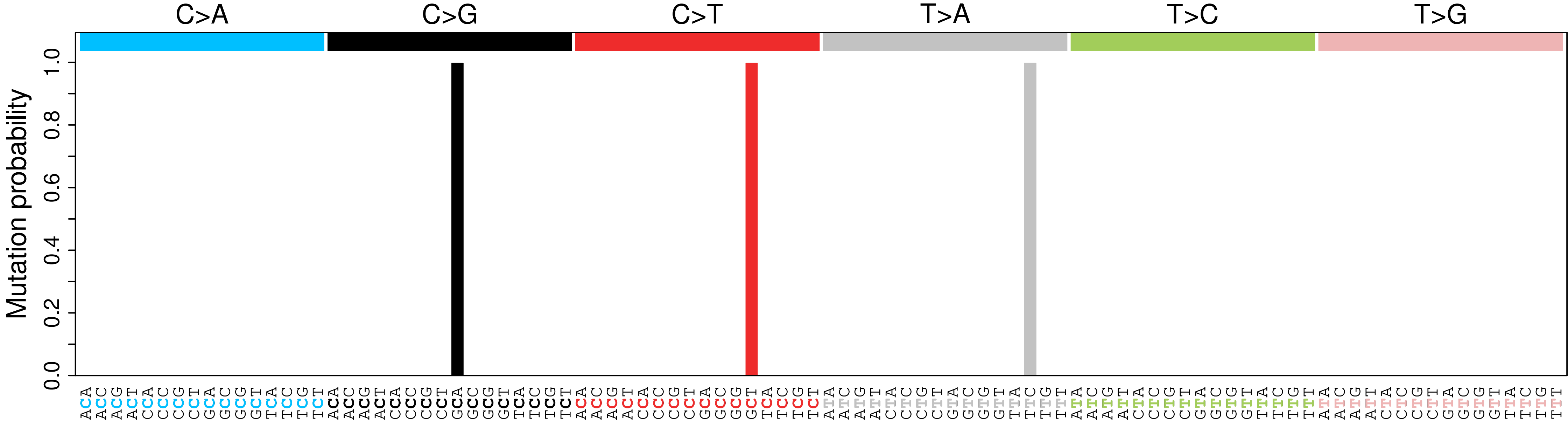
**CATD227a**



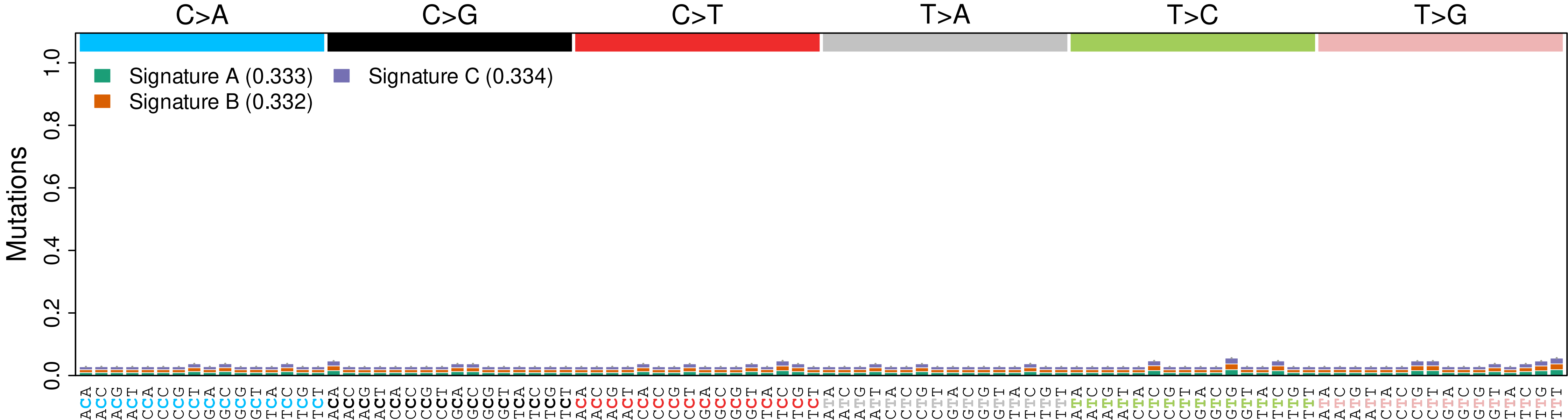
### Reconstructed spectrum (cosine similarity = 0.189)



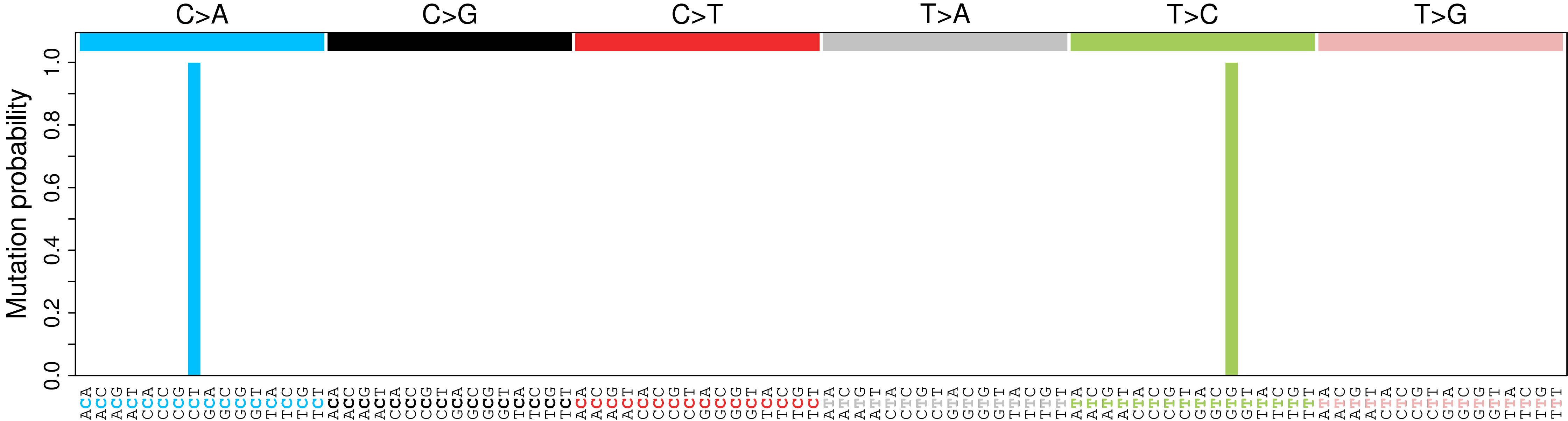
CATD0710a



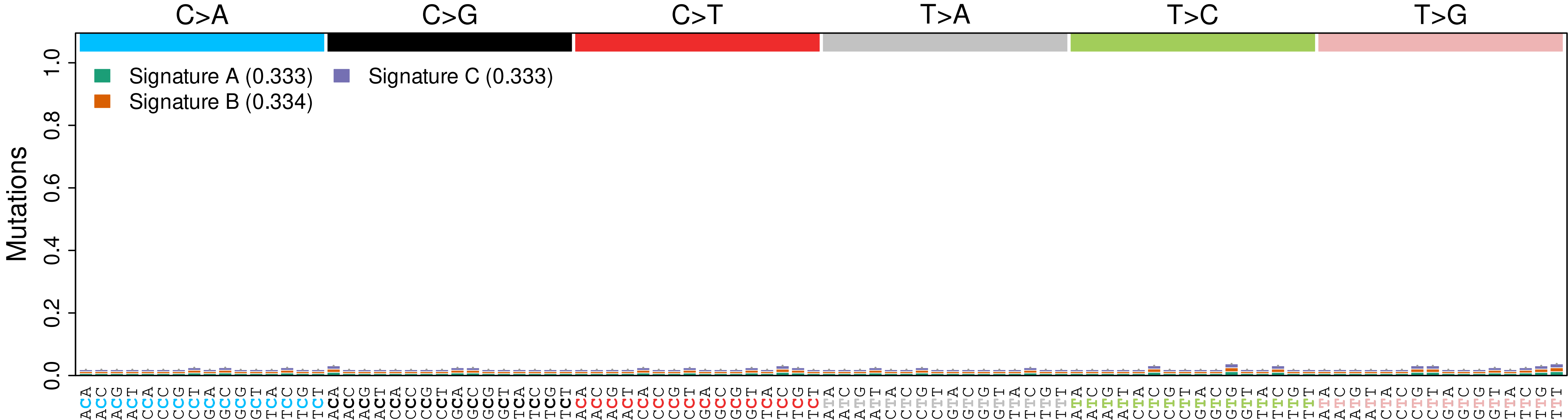
Reconstructed spectrum (cosine similarity = 0.206)



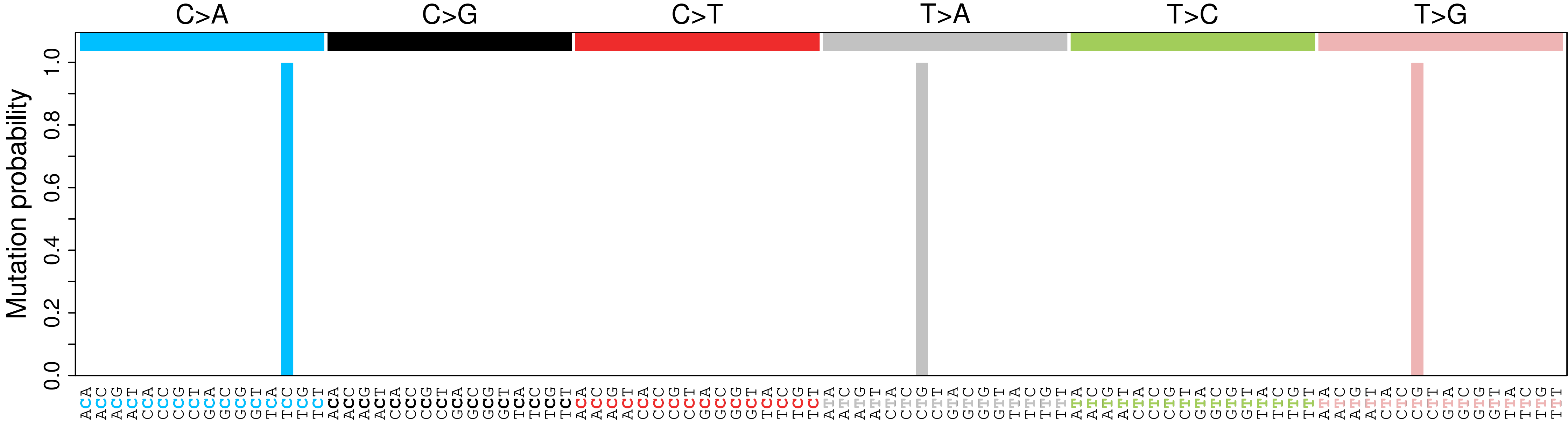
CATD0717a



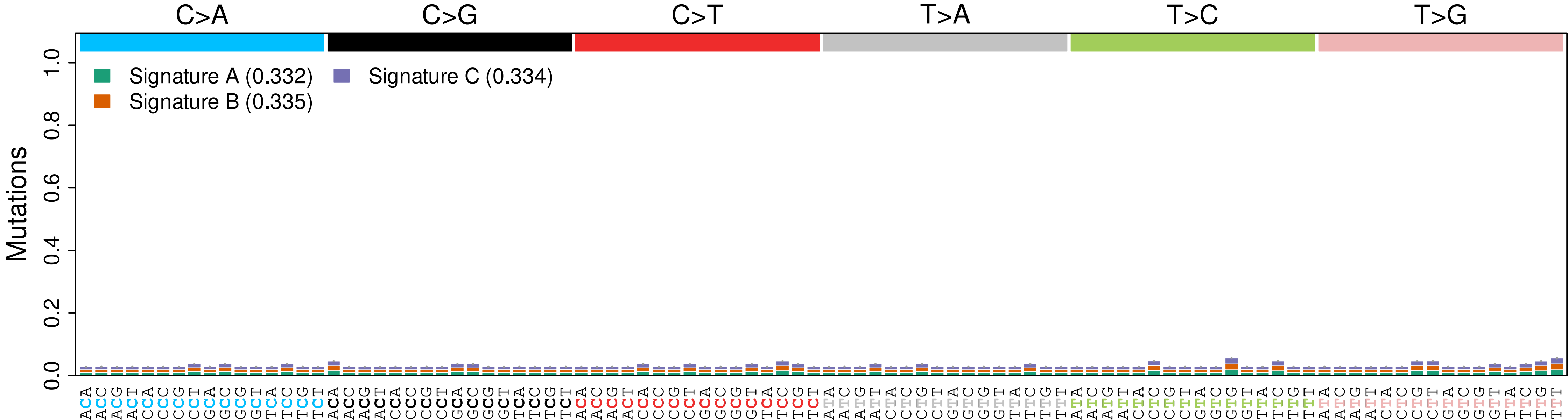
Reconstructed spectrum (cosine similarity = 0.21)



CATD242a

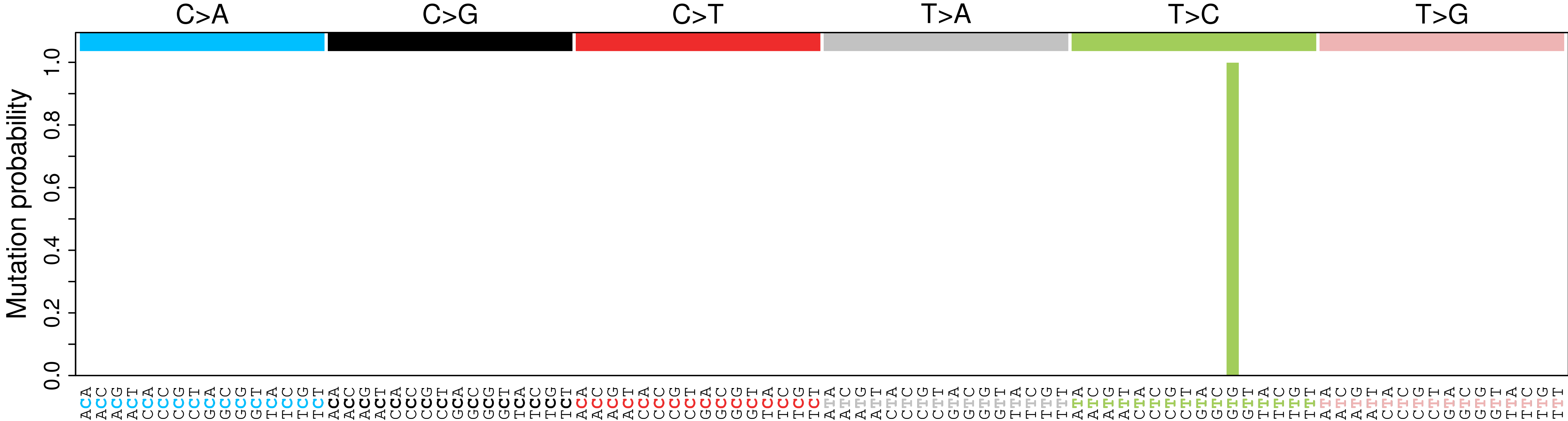


Reconstructed spectrum (cosine similarity = 0.223)

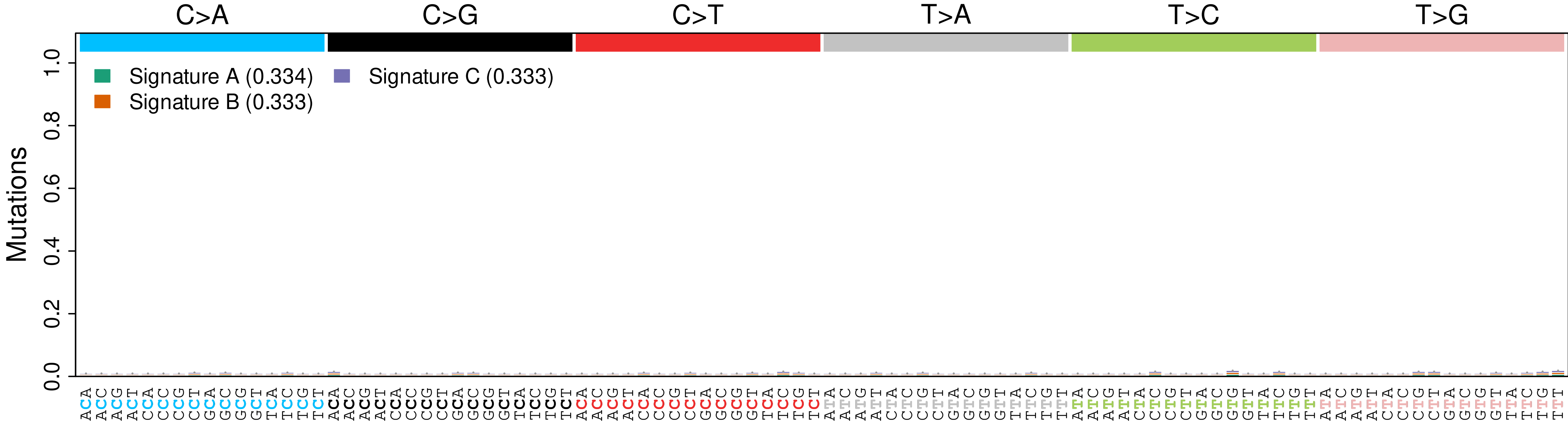




CATD0709a

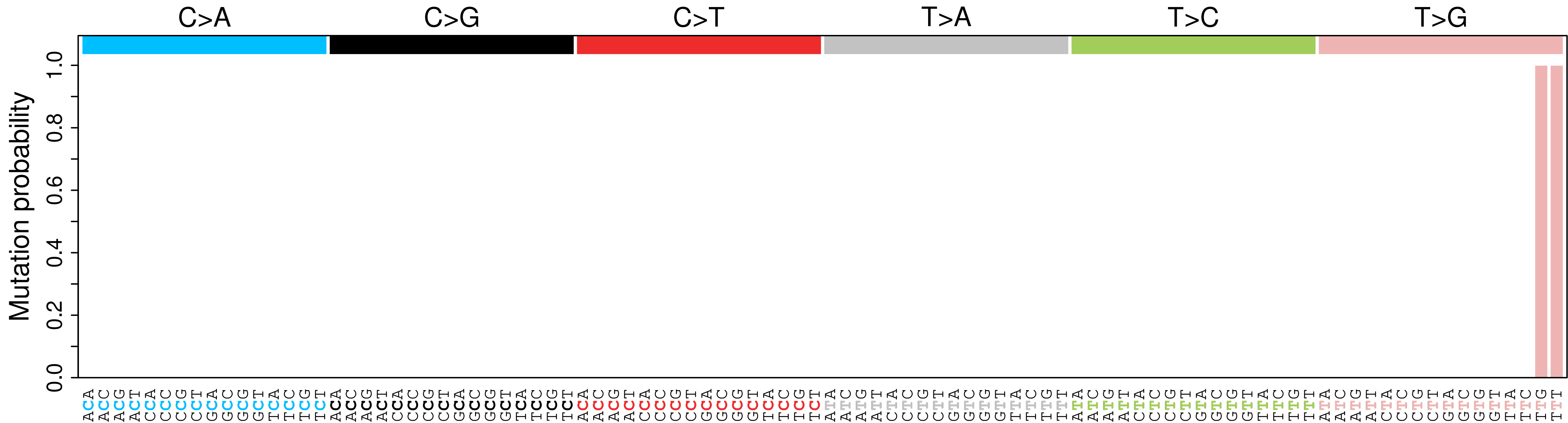


Reconstructed spectrum (cosine similarity = 0.178)

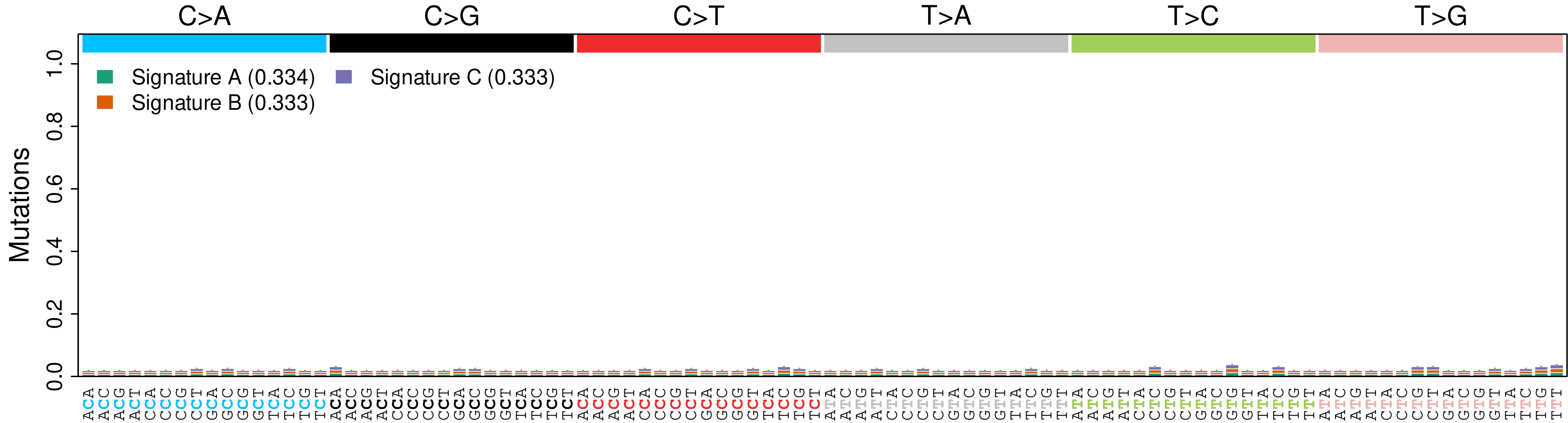


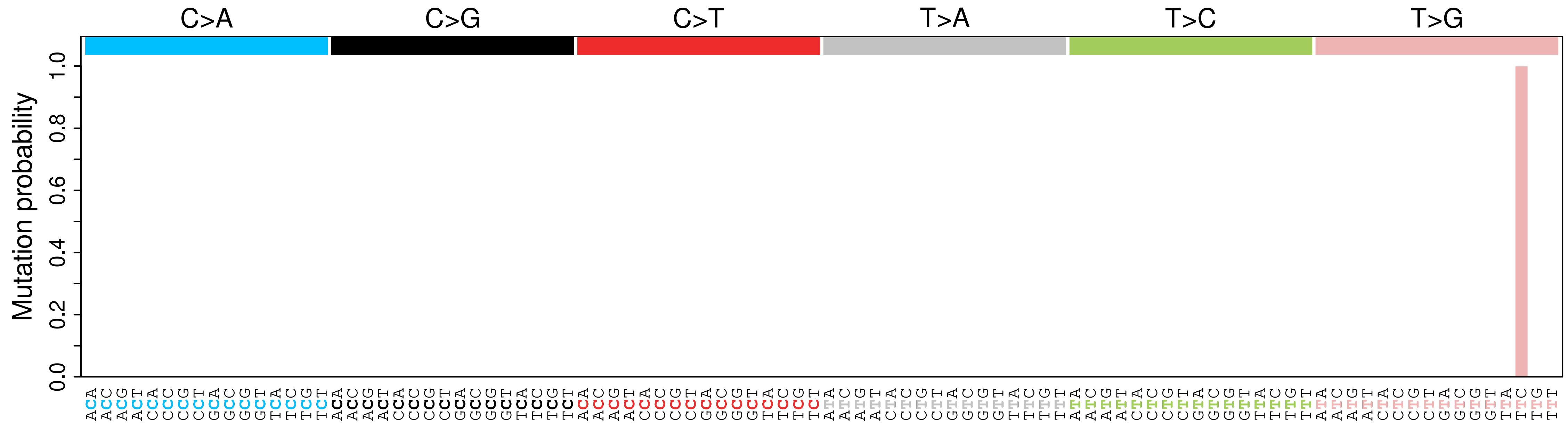


CATD239a

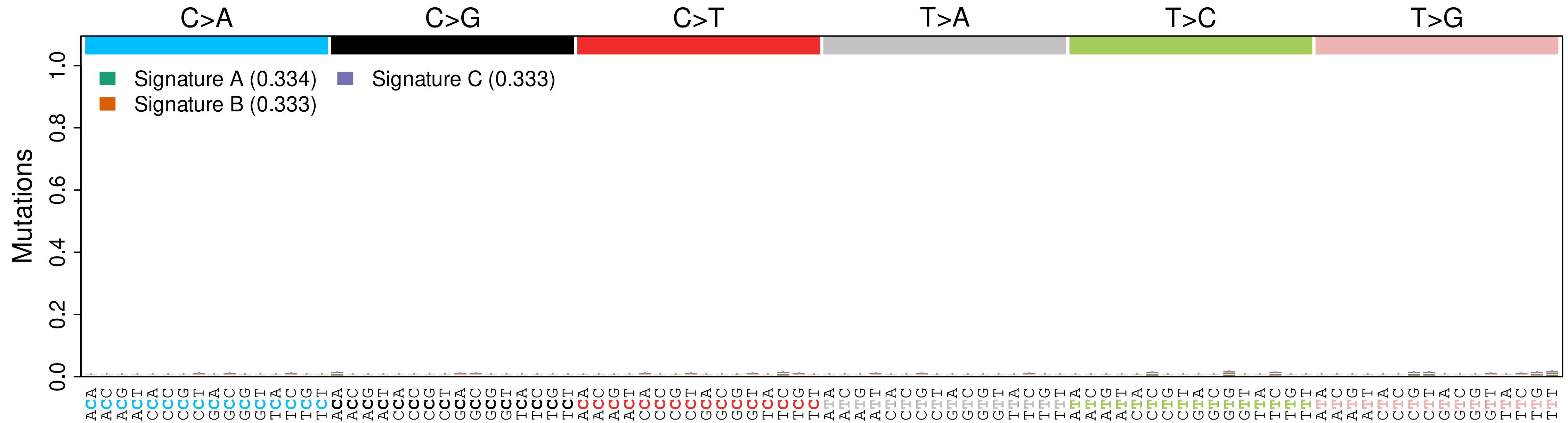


Reconstructed spectrum (cosine similarity = 0.23)

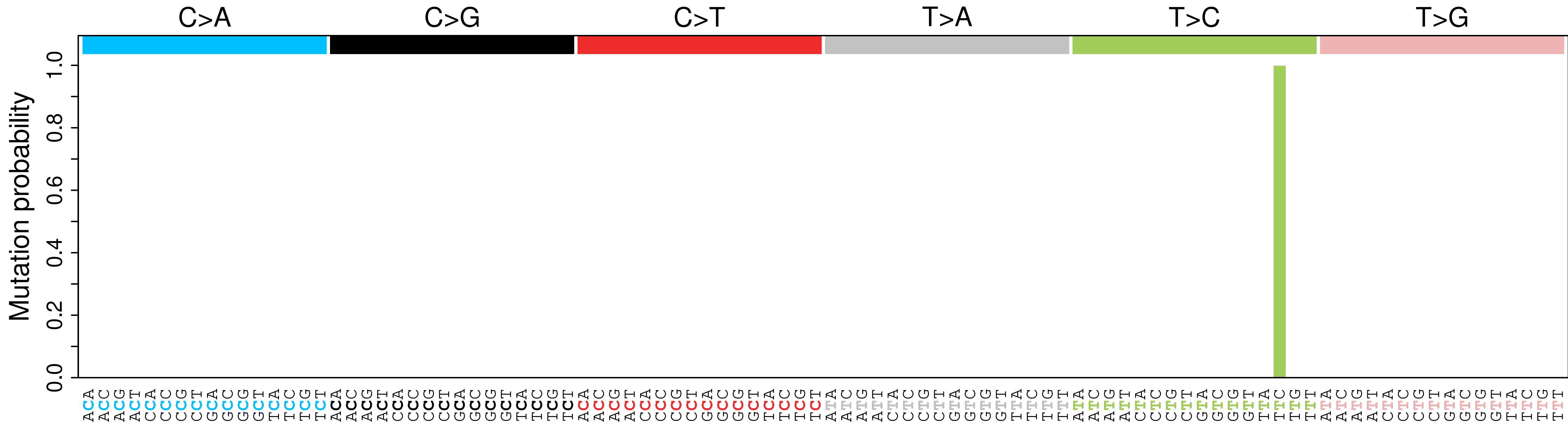


**CATD216a**

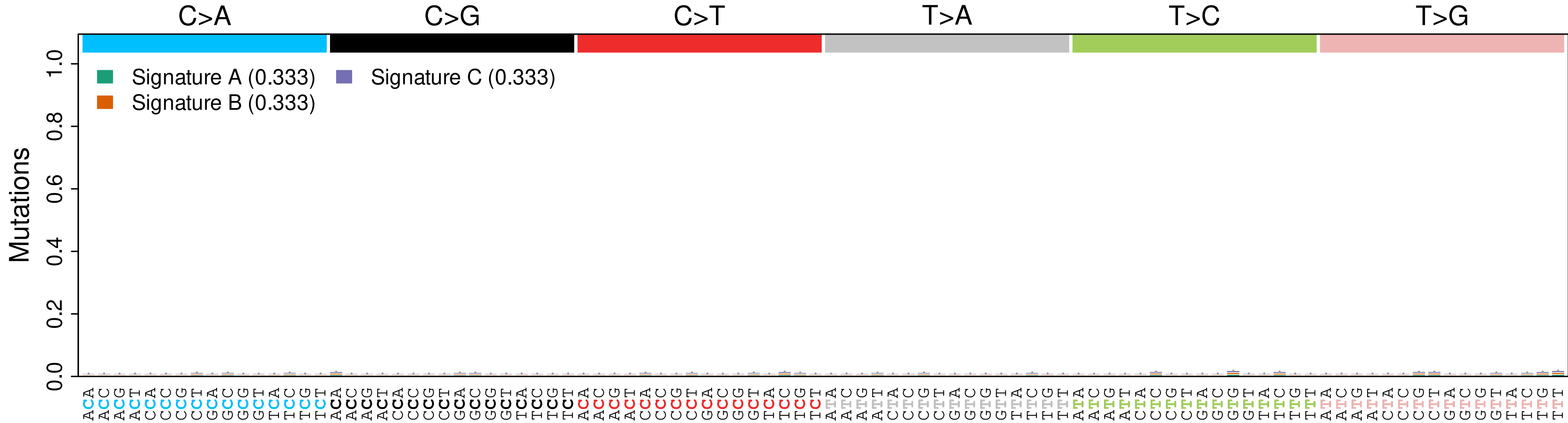
### Reconstructed spectrum (cosine similarity = 0.119)



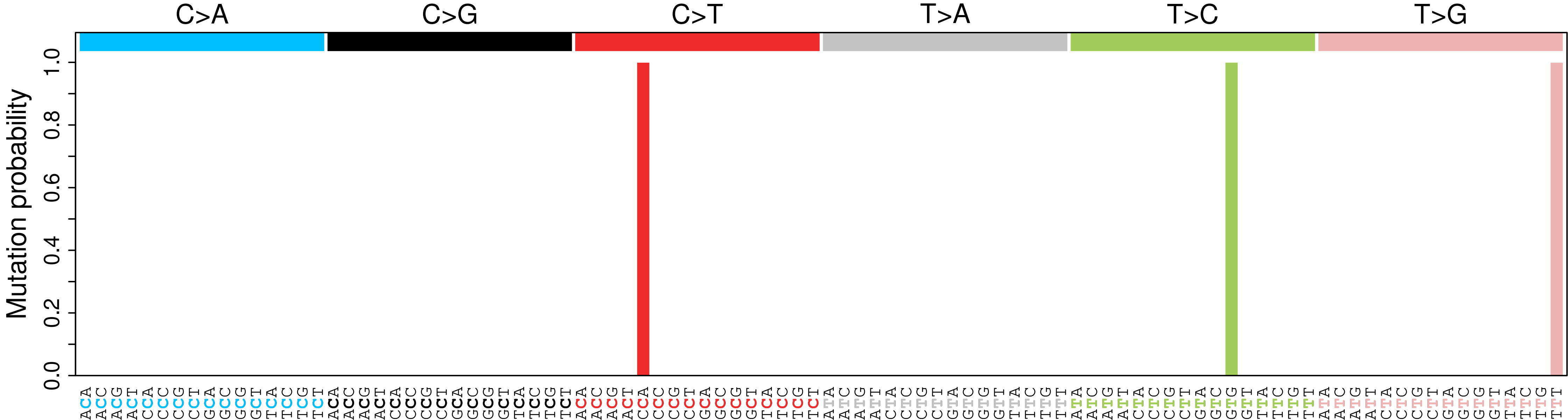
CATD232a



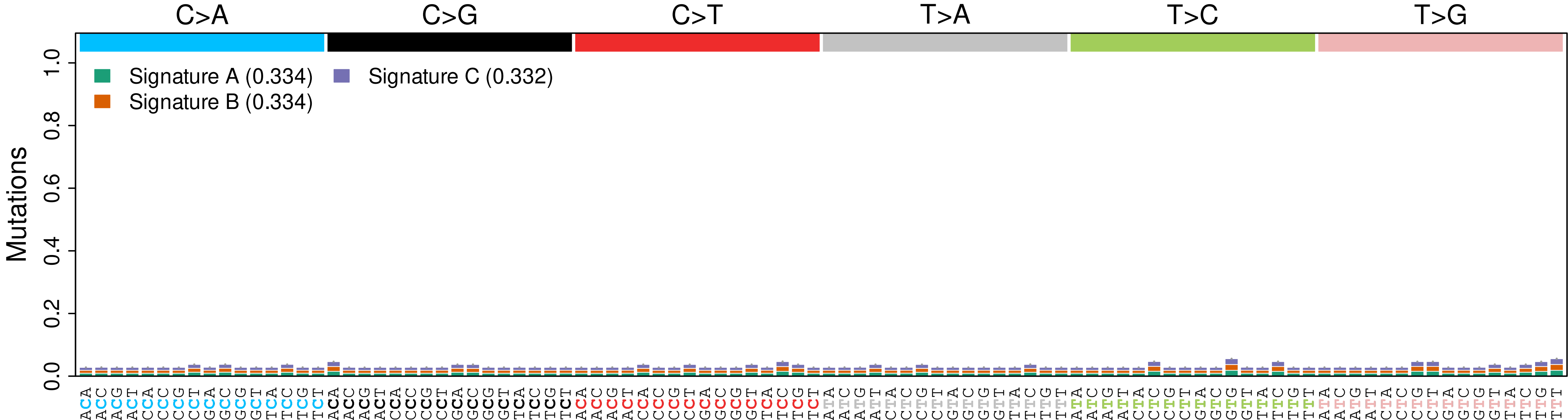
Reconstructed spectrum (cosine similarity = 0.148)



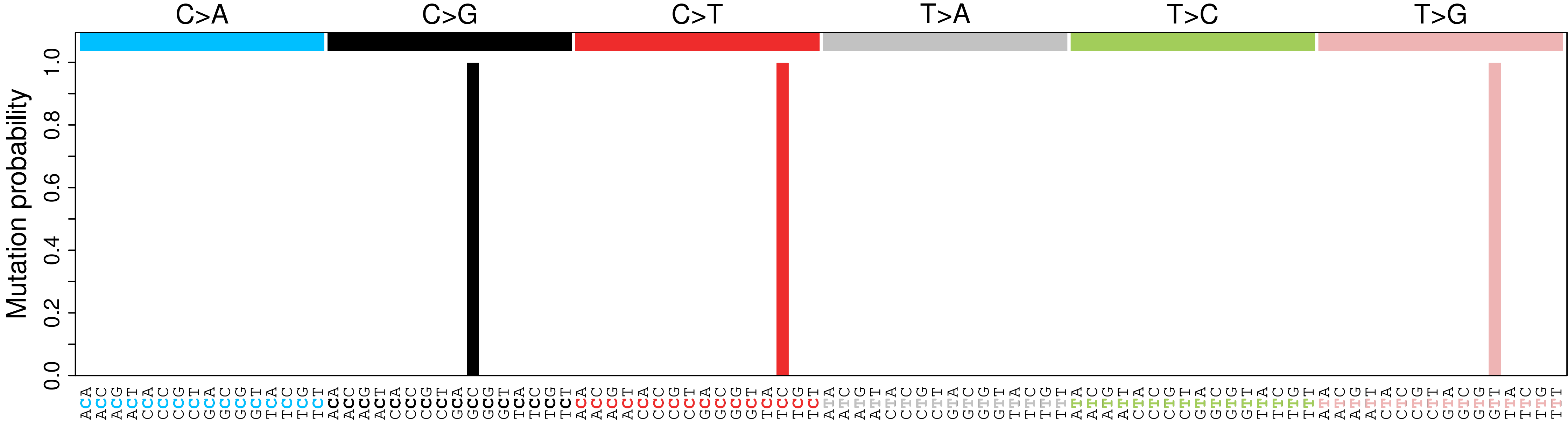
CATD229a



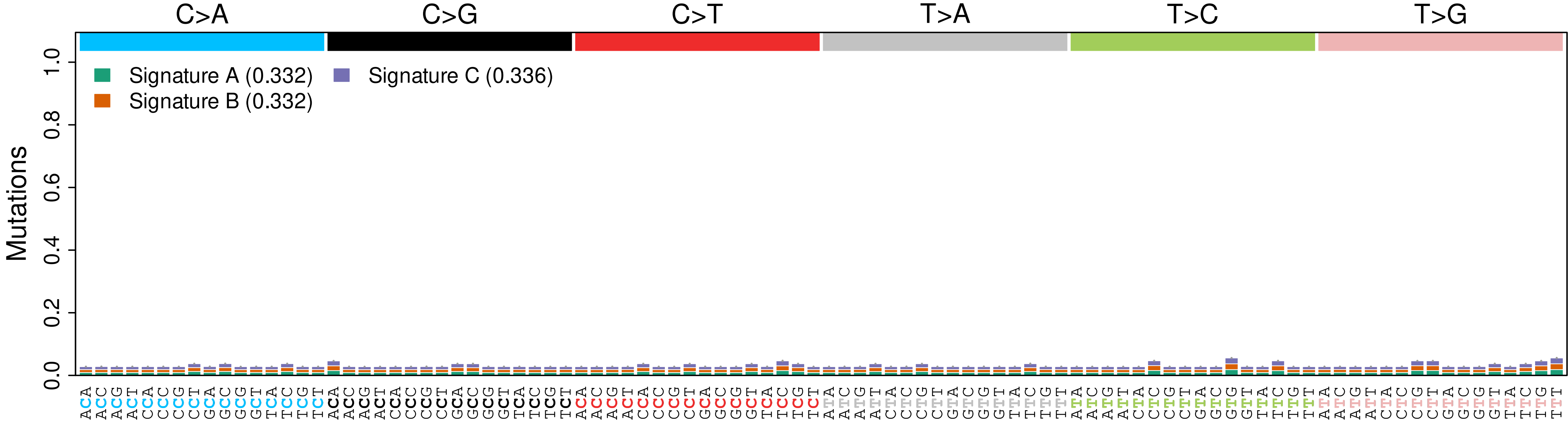
Reconstructed spectrum (cosine similarity = 0.274)



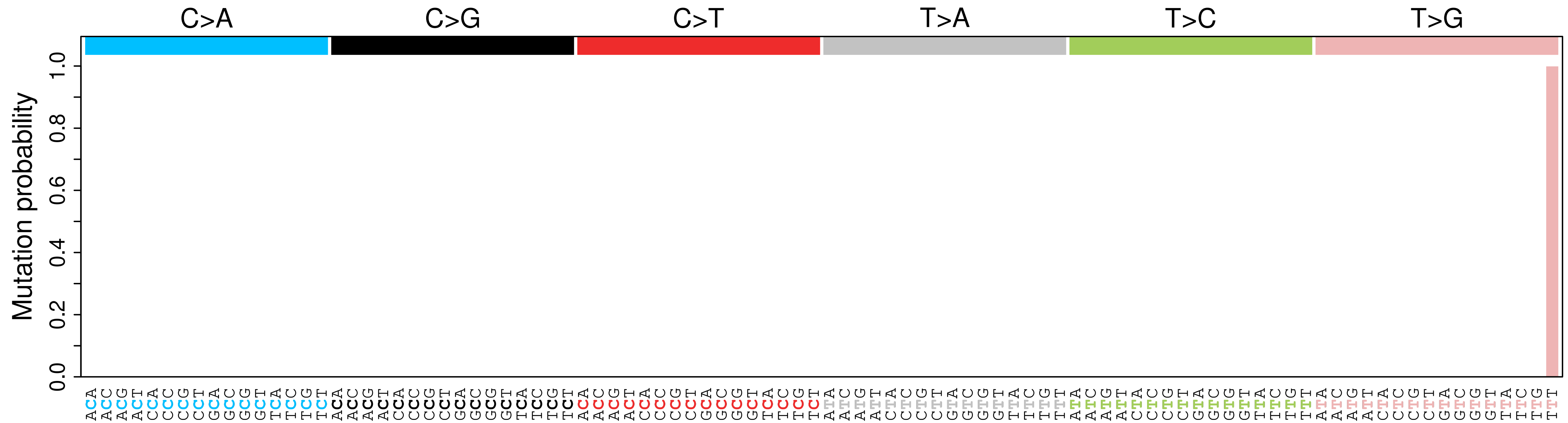
CATD0712a



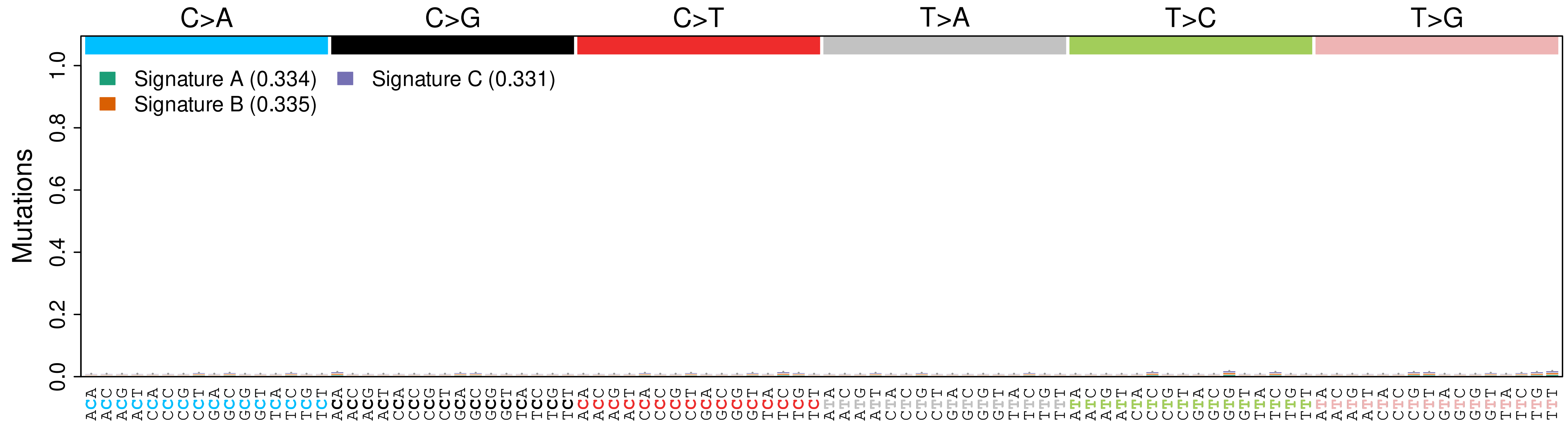
Reconstructed spectrum (cosine similarity = 0.223)



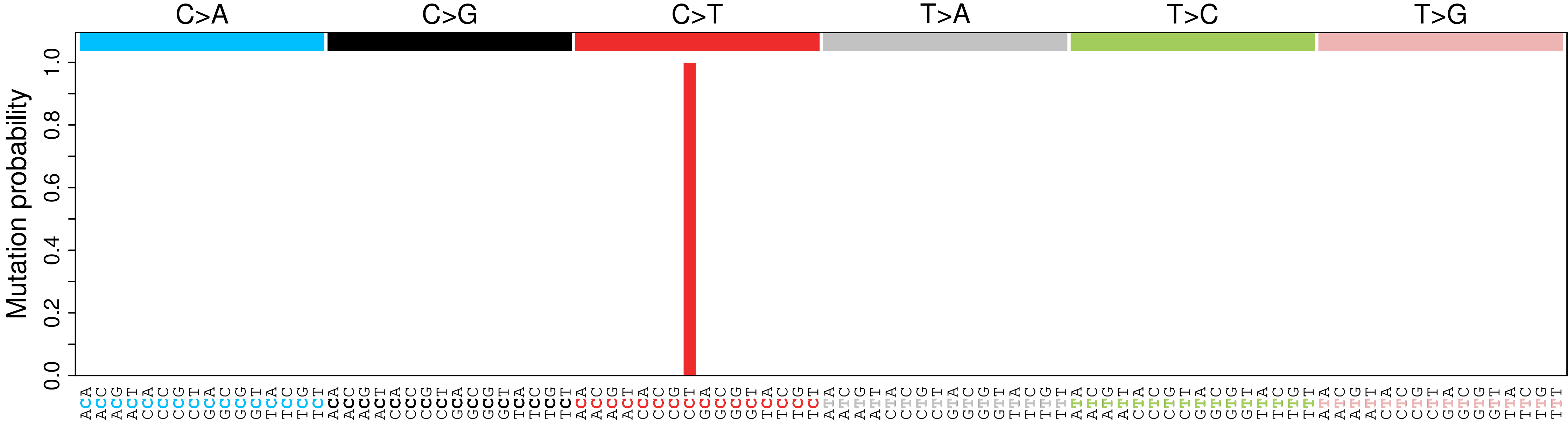
**CATD226a**



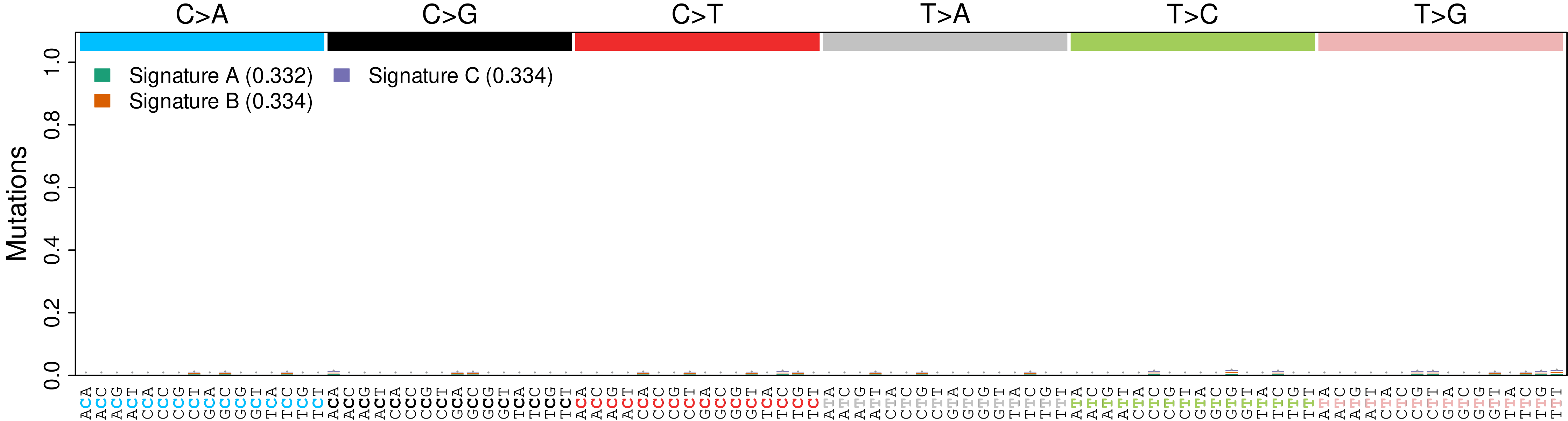
### Reconstructed spectrum (cosine similarity = 0.178)



CATD0715a

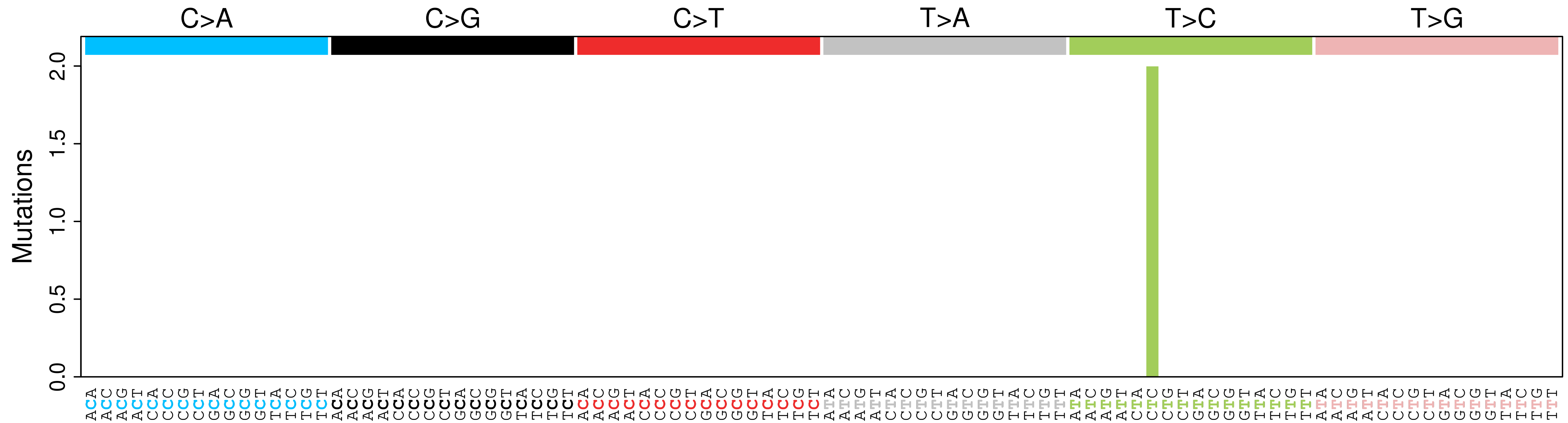


Reconstructed spectrum (cosine similarity = 0.119)

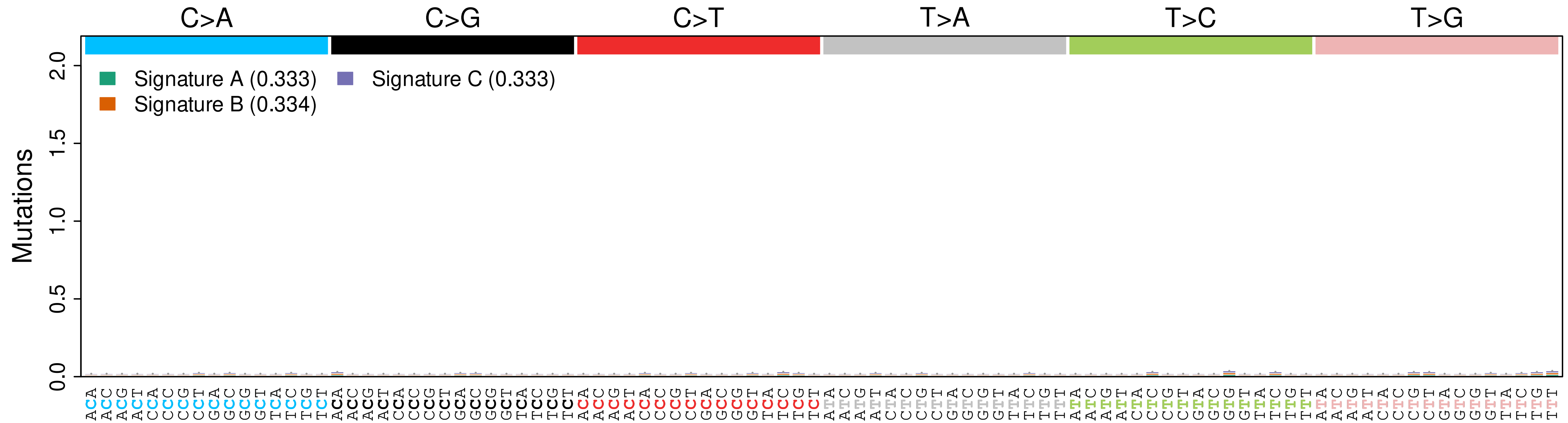




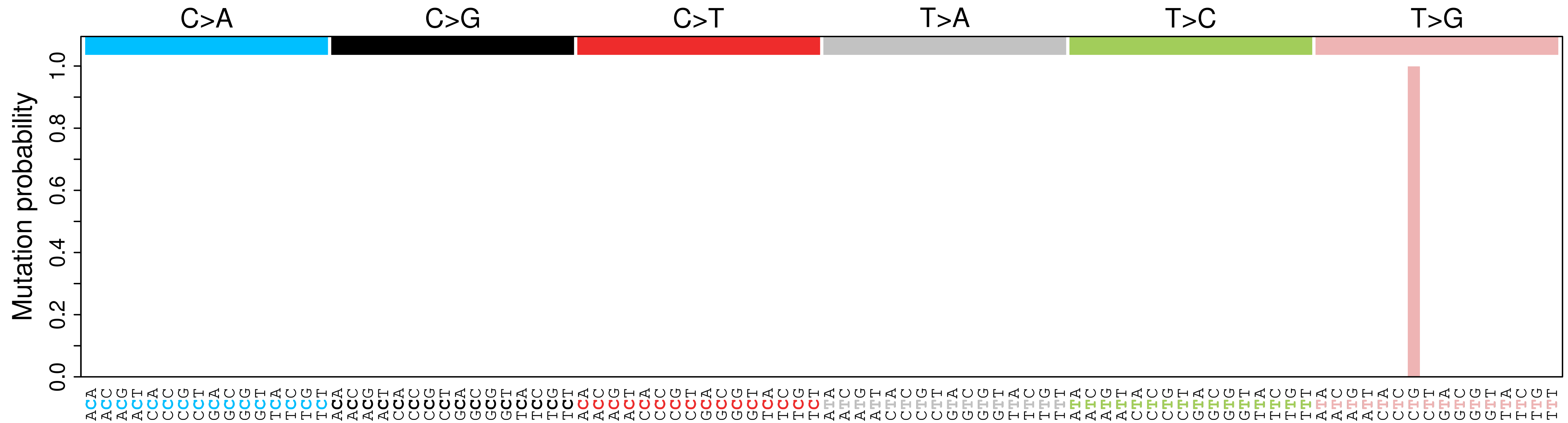
### CATD224a (2 mutations)



### Reconstructed spectrum (cosine similarity = 0.149)



**CATD0561e**



### Reconstructed spectrum (cosine similarity = 0.148)

