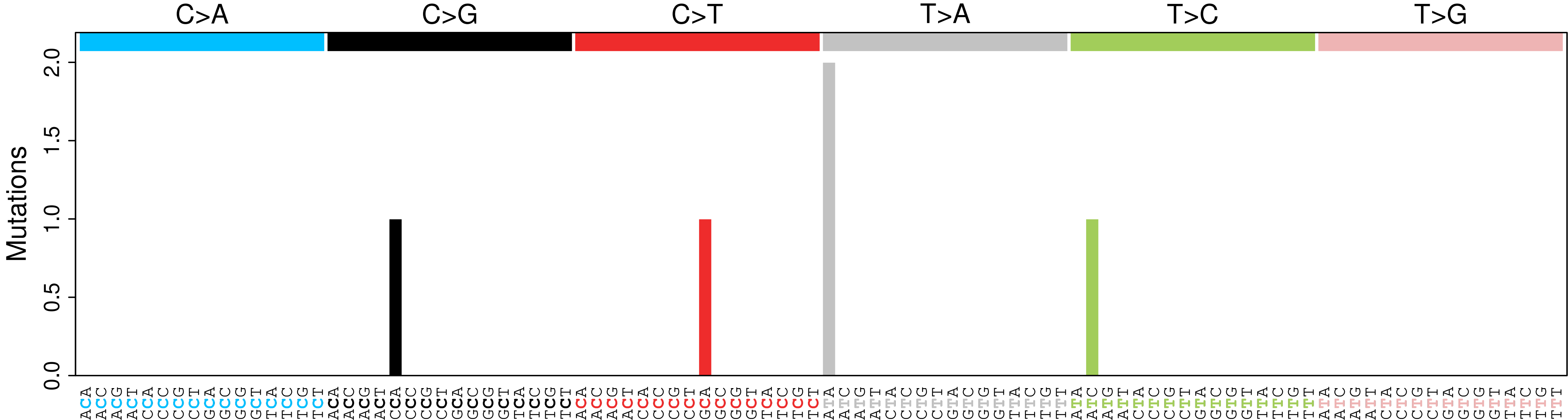
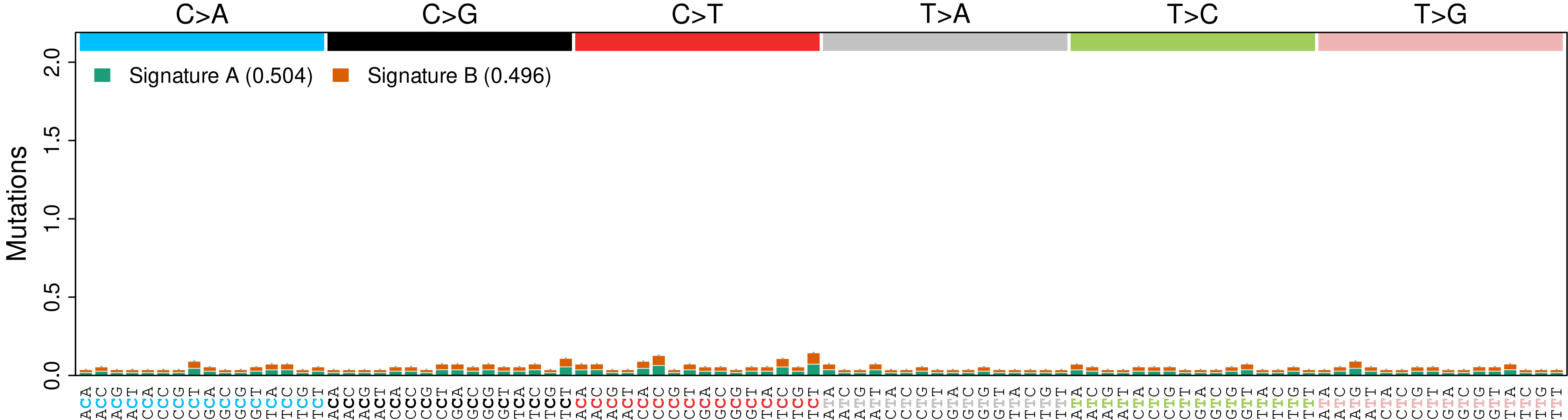




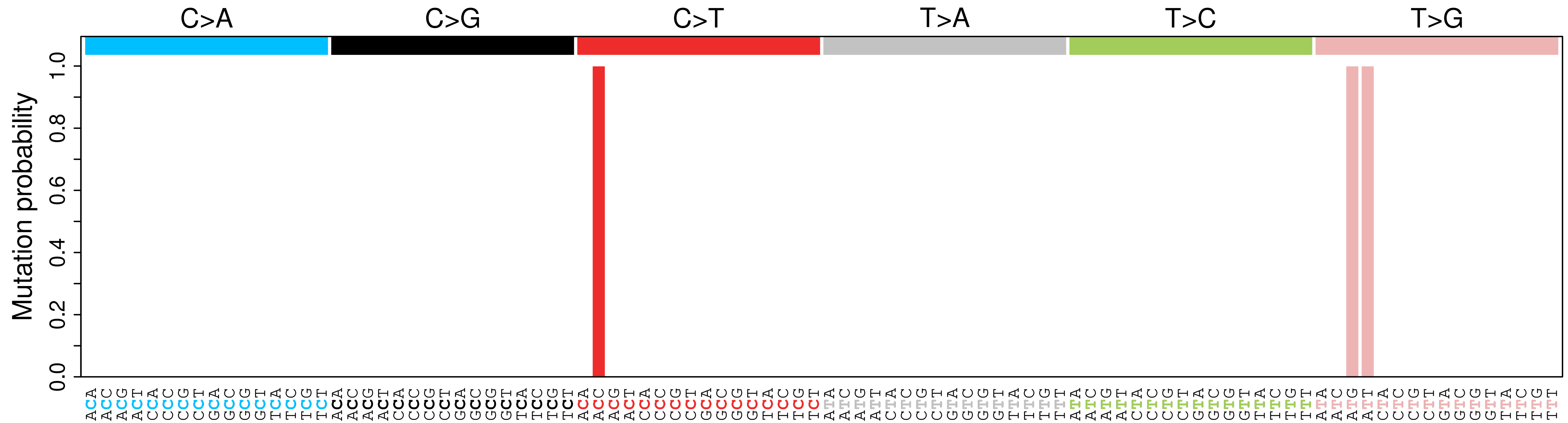
CATD0518a (5 mutations)



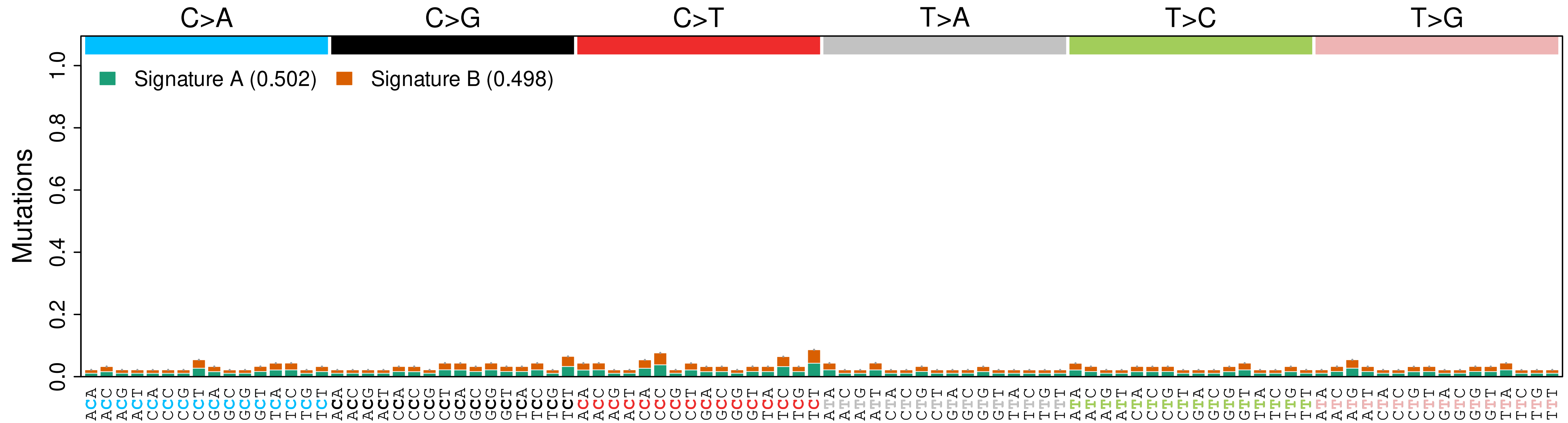
Reconstructed spectrum (cosine similarity = 0.211)



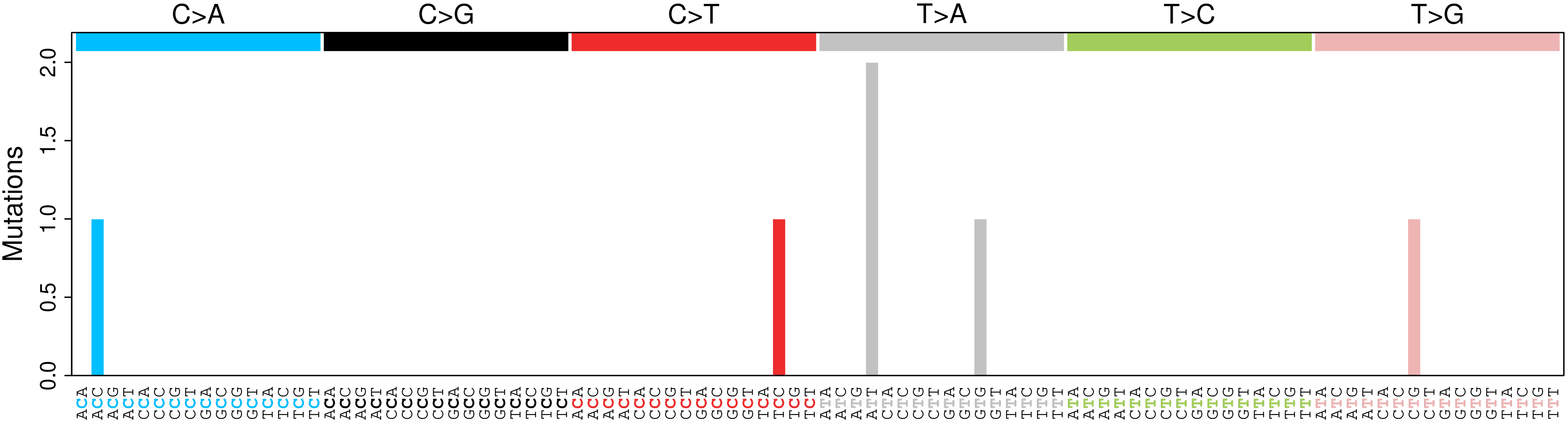
**CATD0524a**



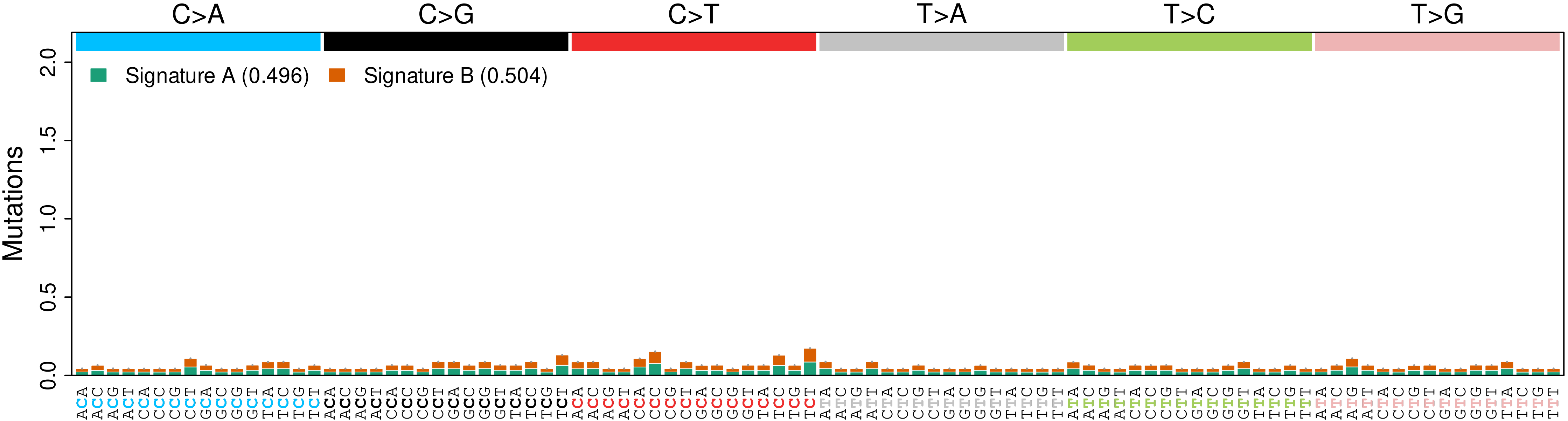
### Reconstructed spectrum (cosine similarity = 0.228)



CATD0515a (6 mutations)



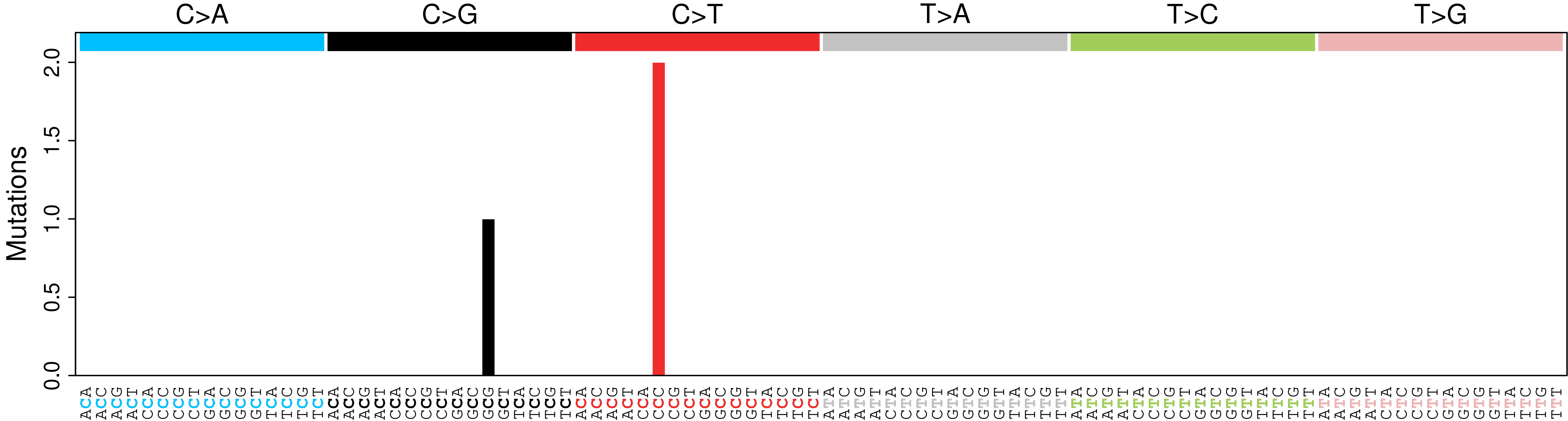
Reconstructed spectrum (cosine similarity = 0.267)



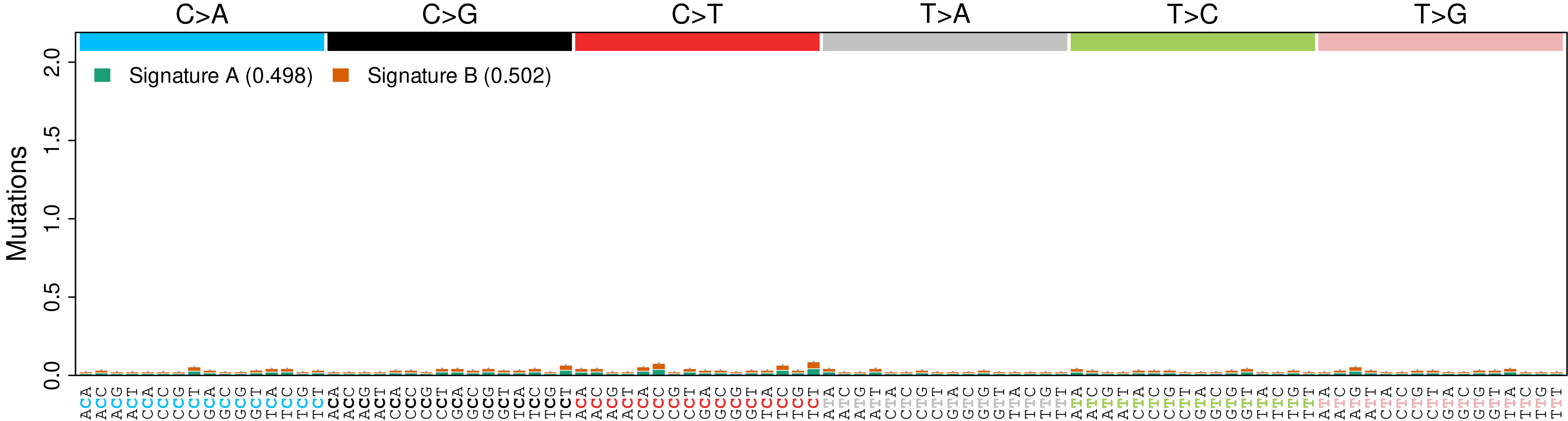




CATD193a (3 mutations)

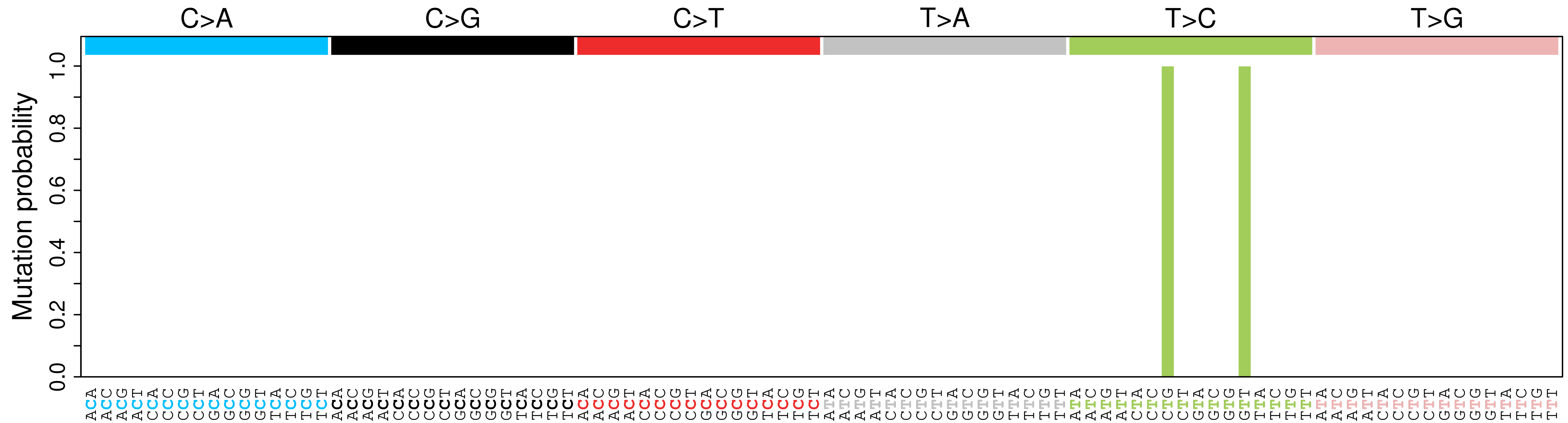


Reconstructed spectrum (cosine similarity = 0.266)

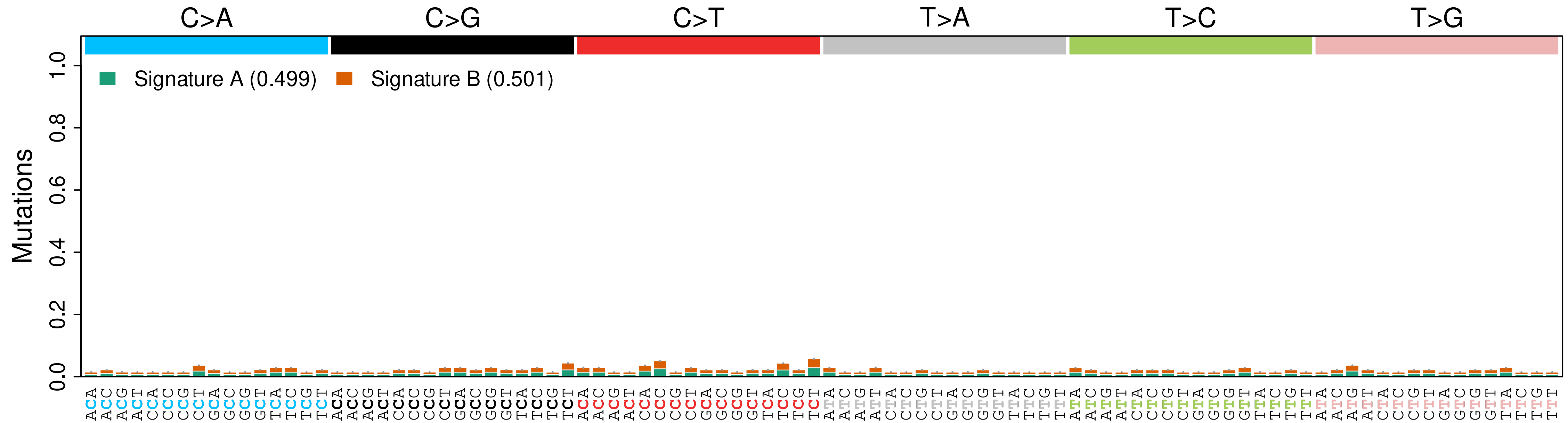




# CATD192a

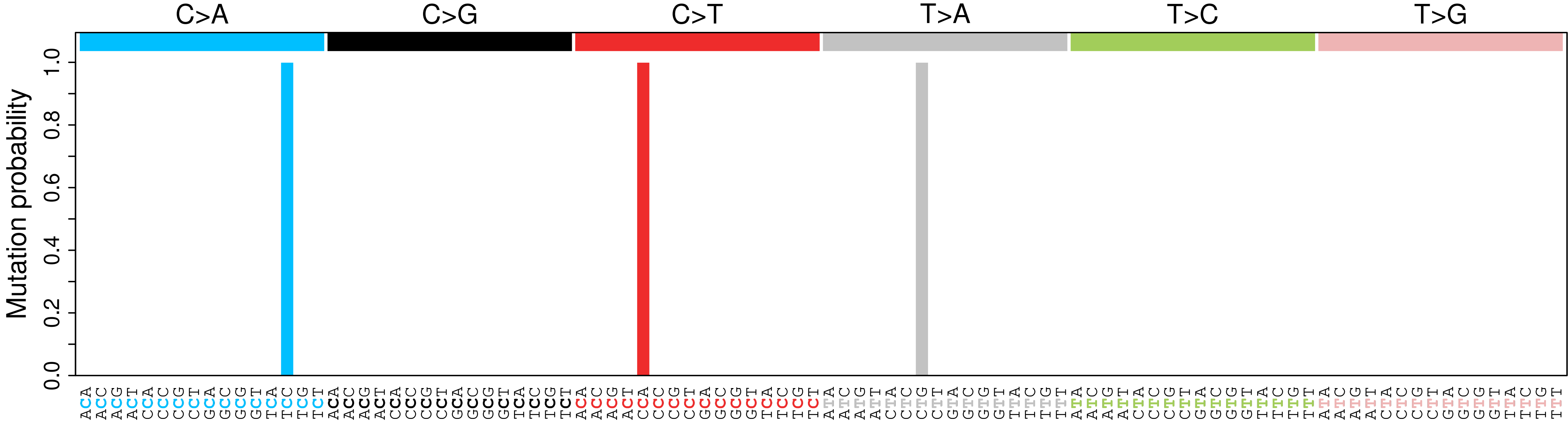


### Reconstructed spectrum (cosine similarity = 0.163)

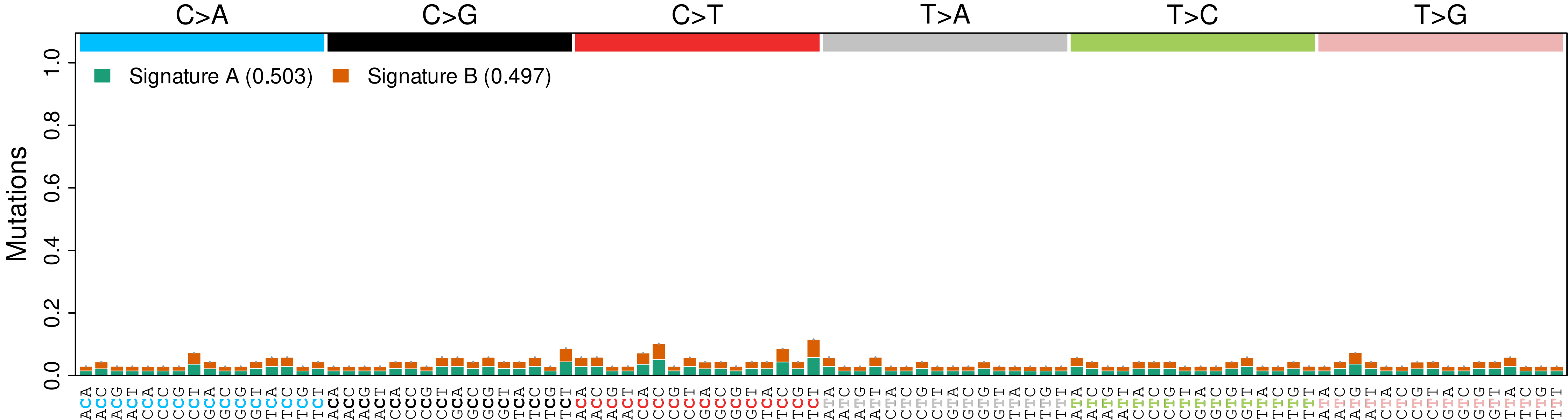




CATD0519a

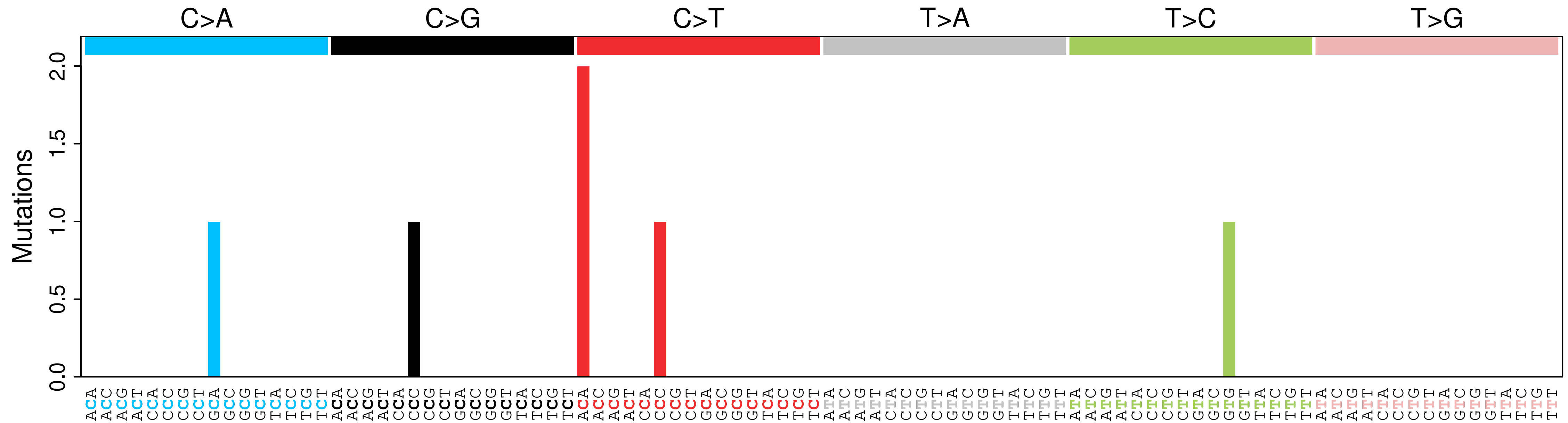


Reconstructed spectrum (cosine similarity = 0.228)



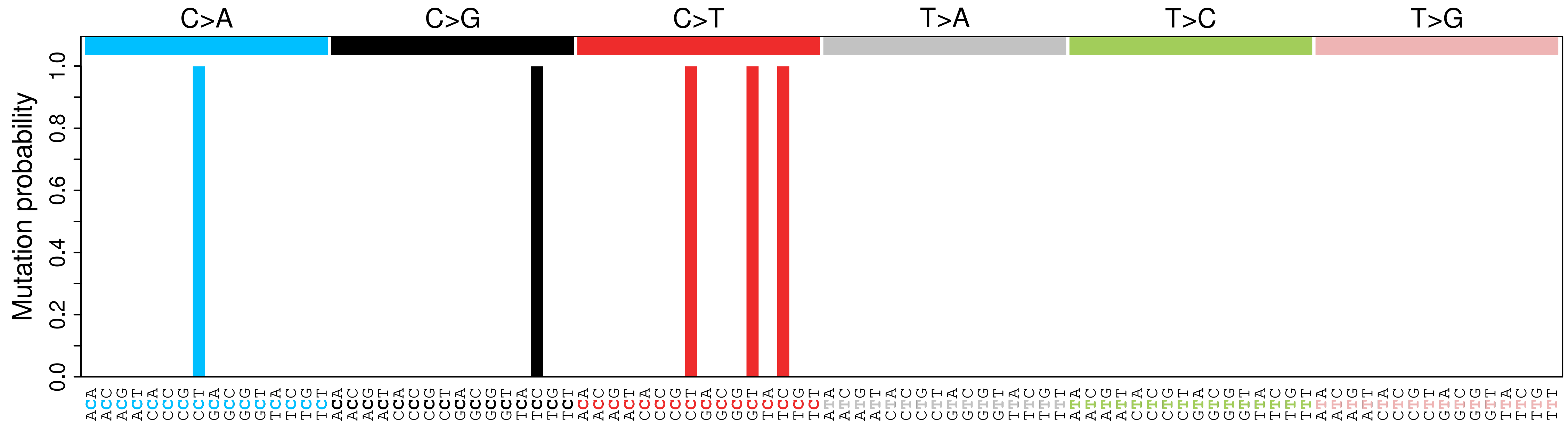


### CATD0517a (6 mutations)

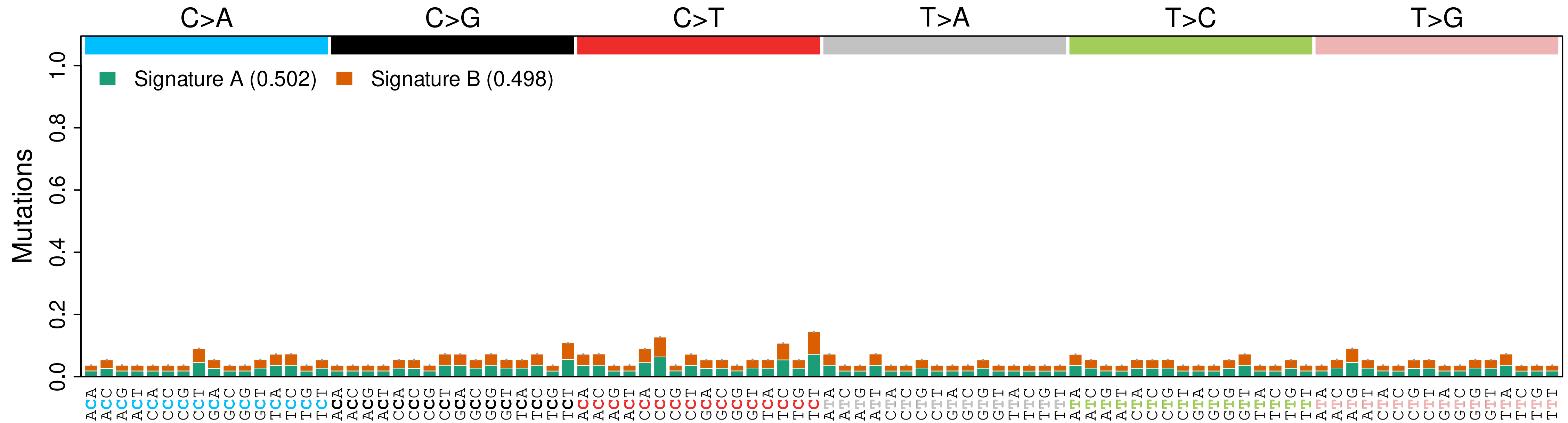




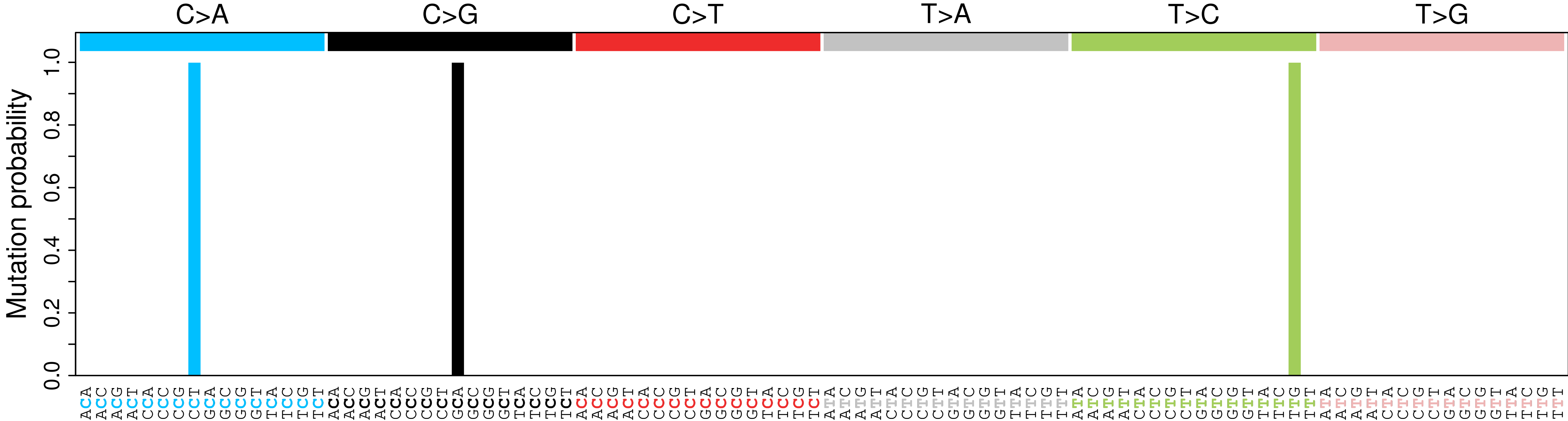
# CATD212a



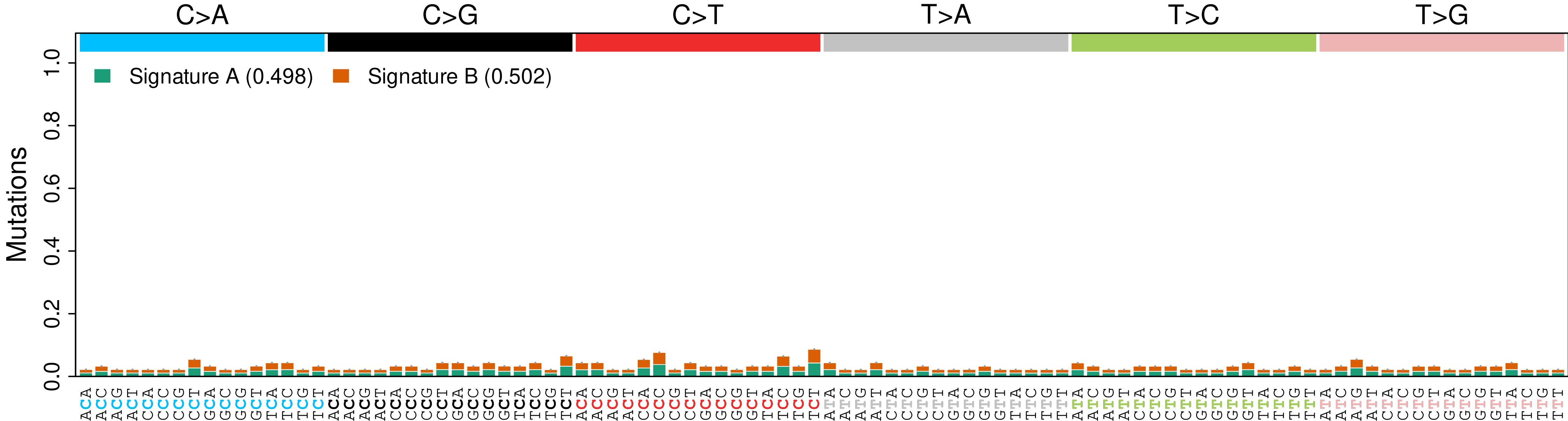
### Reconstructed spectrum (cosine similarity = 0.323)



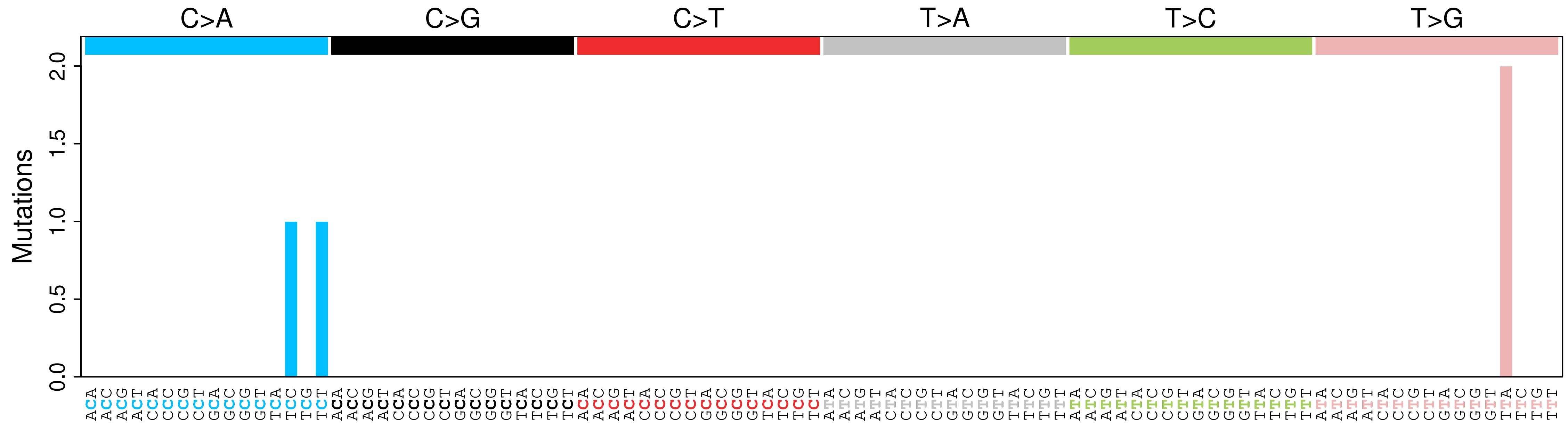
CATD209a



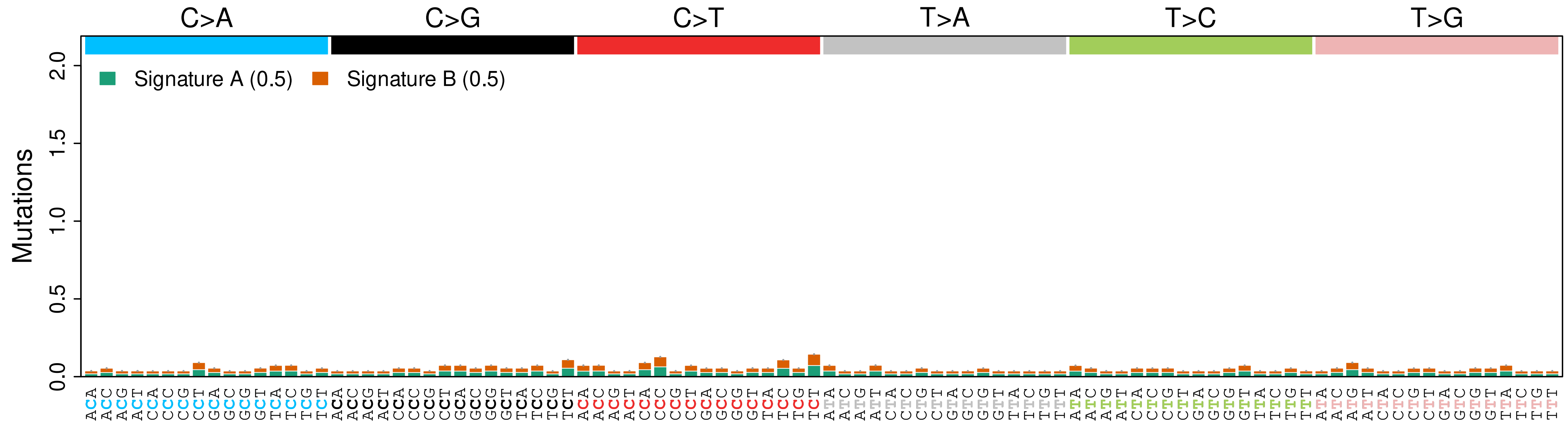
Reconstructed spectrum (cosine similarity = 0.228)



### CATD206a (4 mutations)

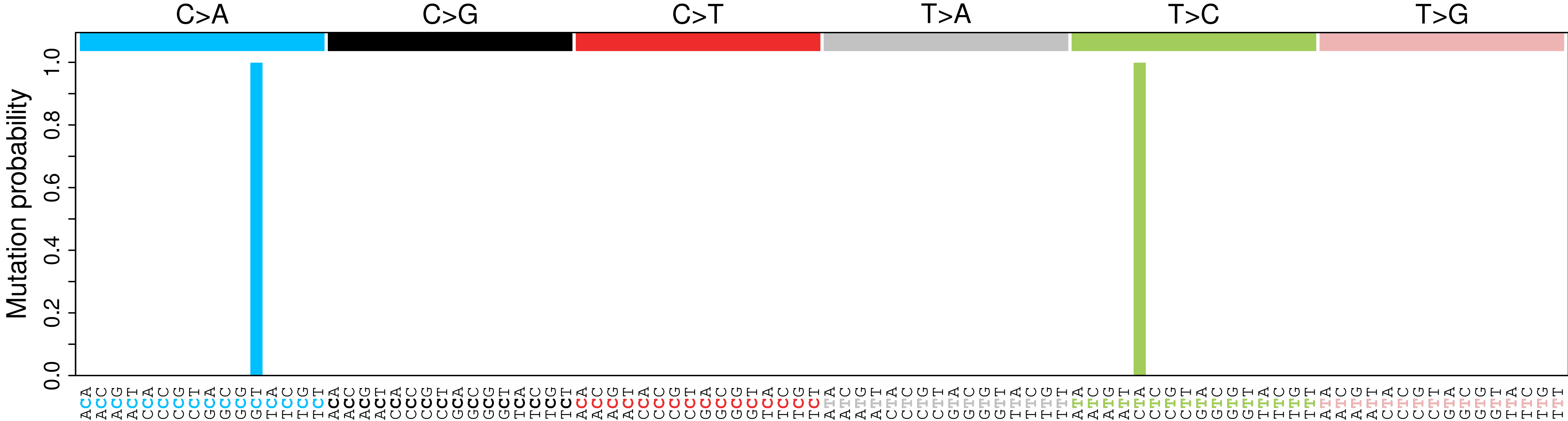


### Reconstructed spectrum (cosine similarity = 0.202)

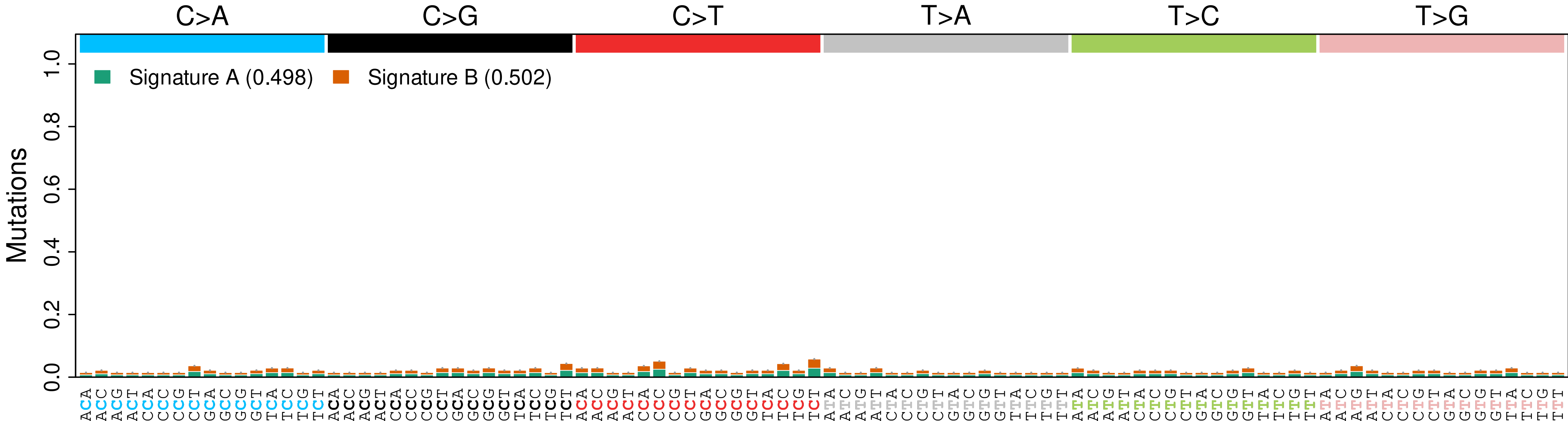




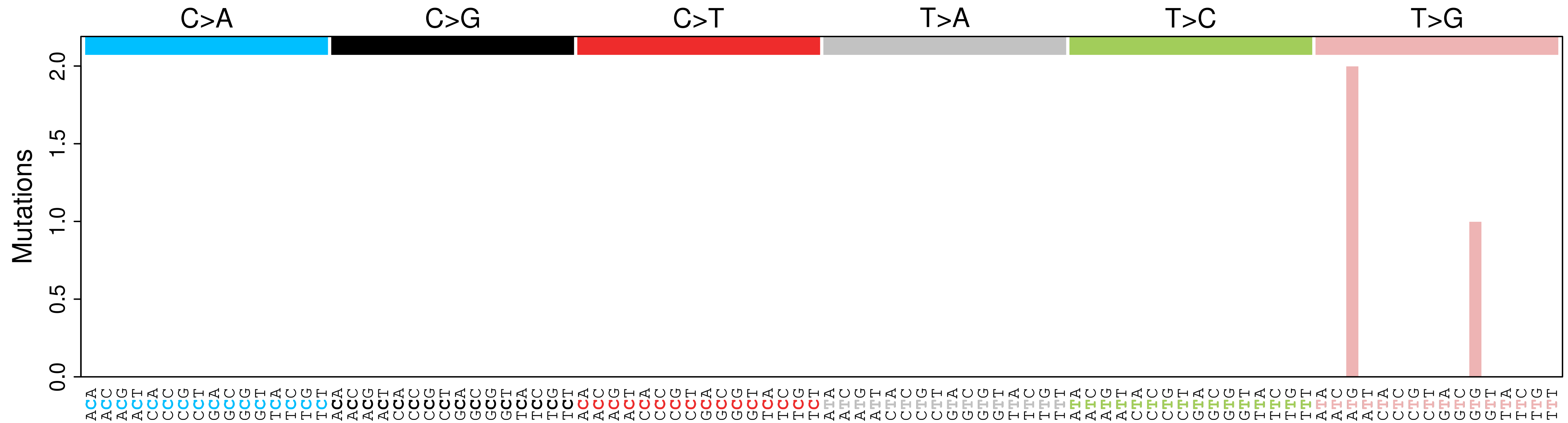
CATD0513a



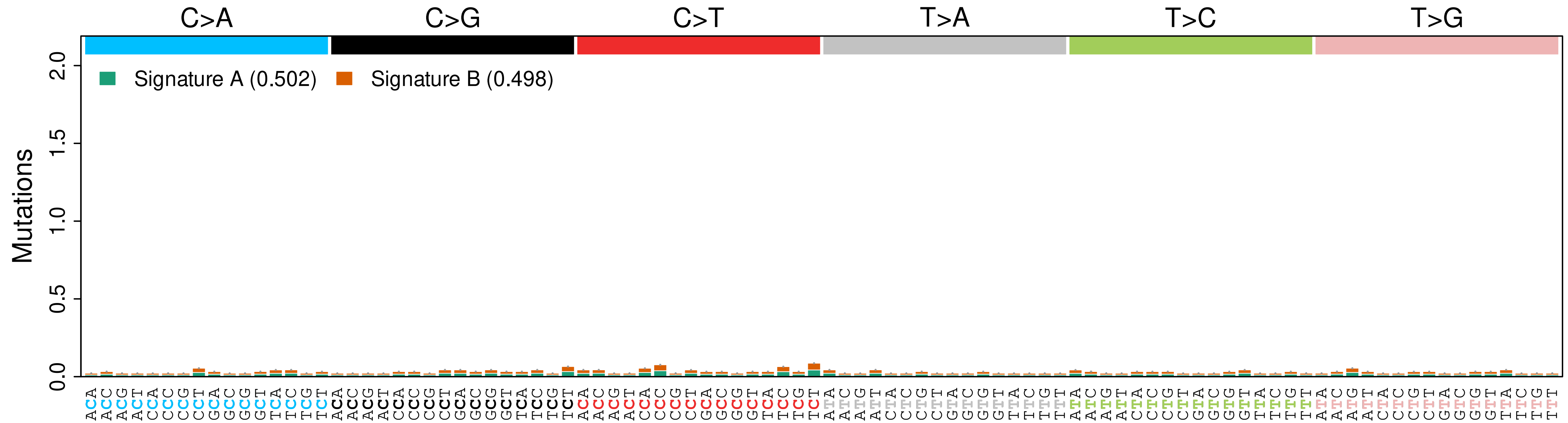
Reconstructed spectrum (cosine similarity = 0.14)



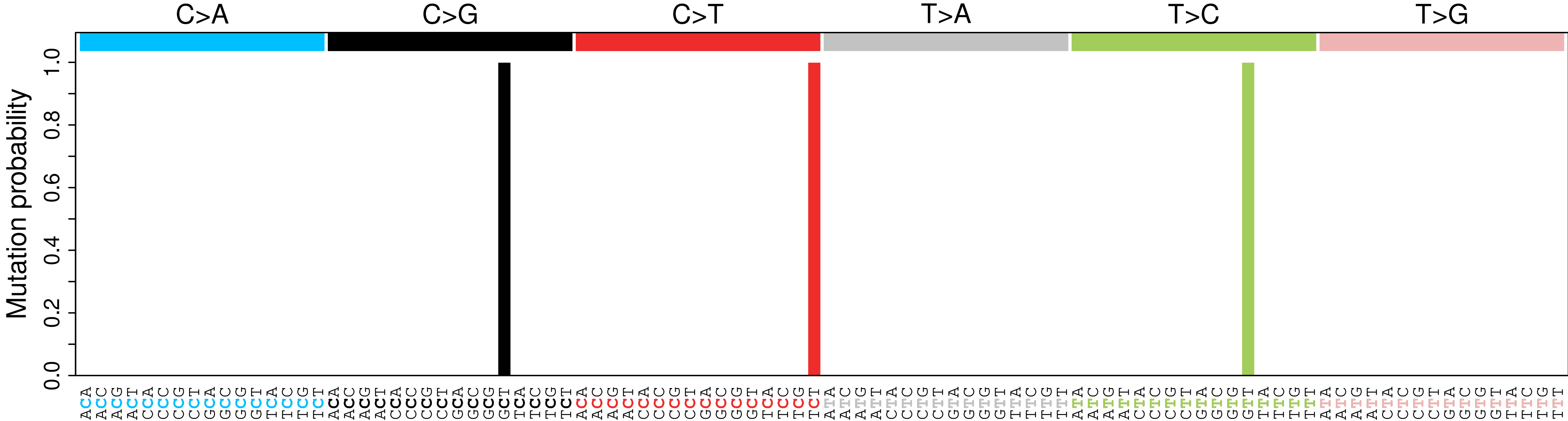
### CATD0509a (3 mutations)



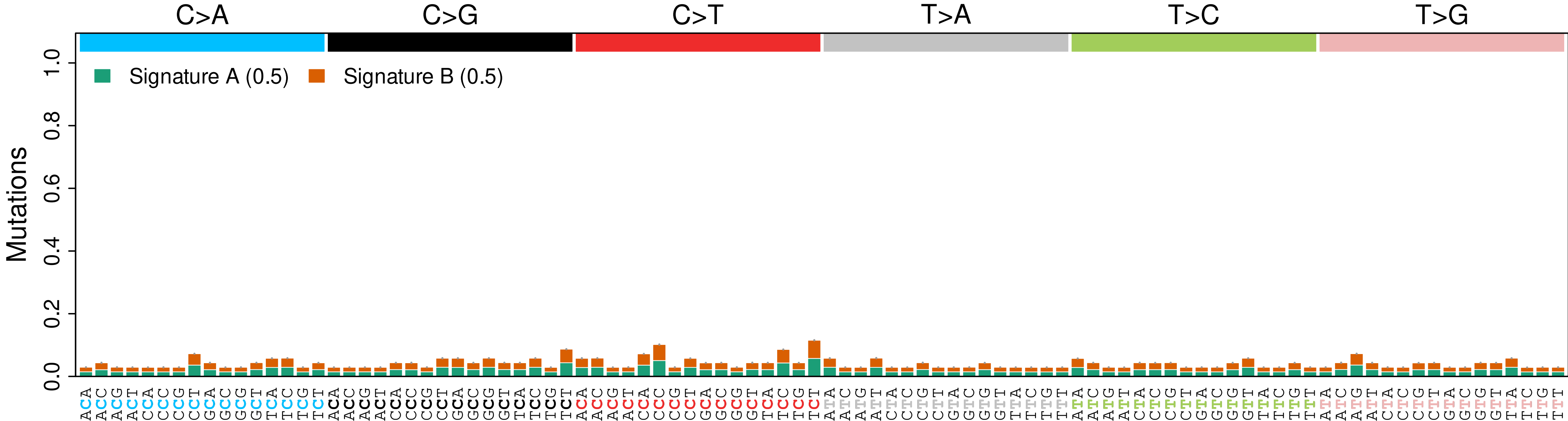
### Reconstructed spectrum (cosine similarity = 0.192)



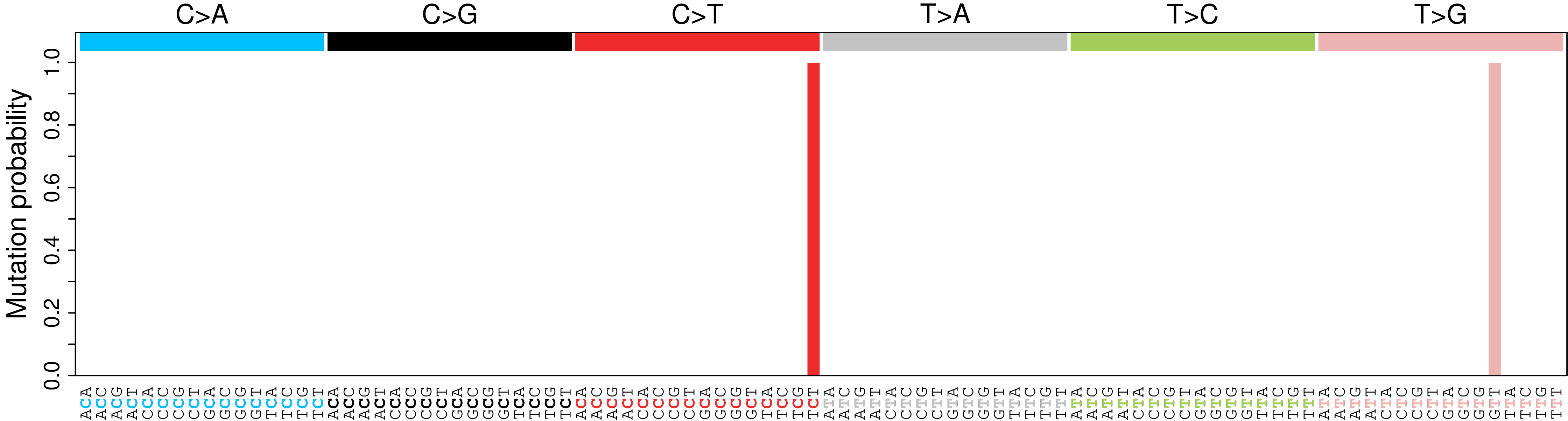
CATD203a



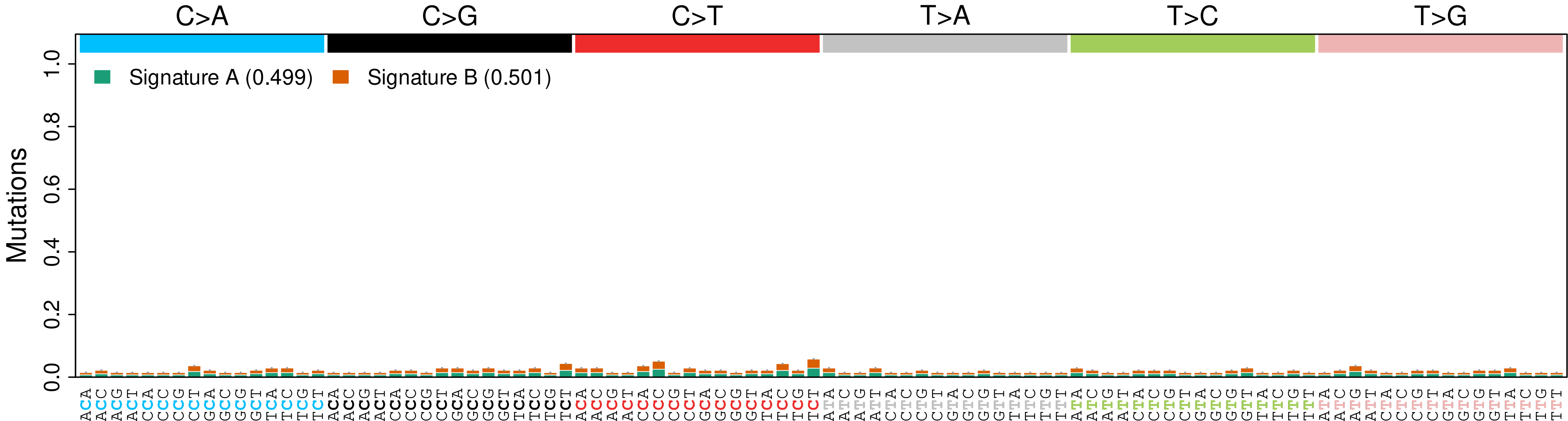
Reconstructed spectrum (cosine similarity = 0.285)



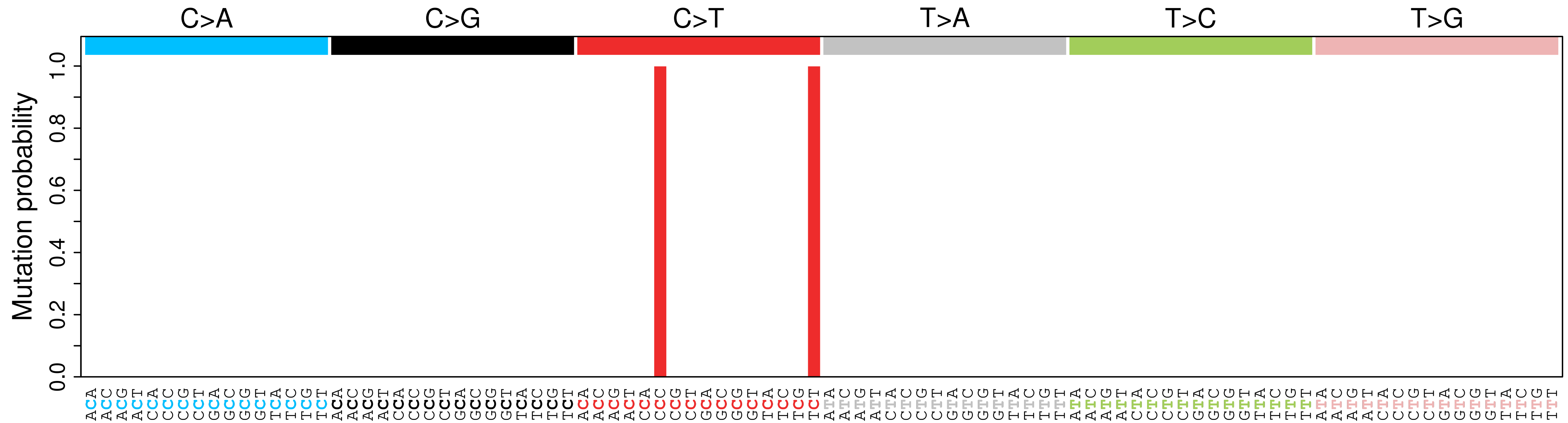
CATD0533a



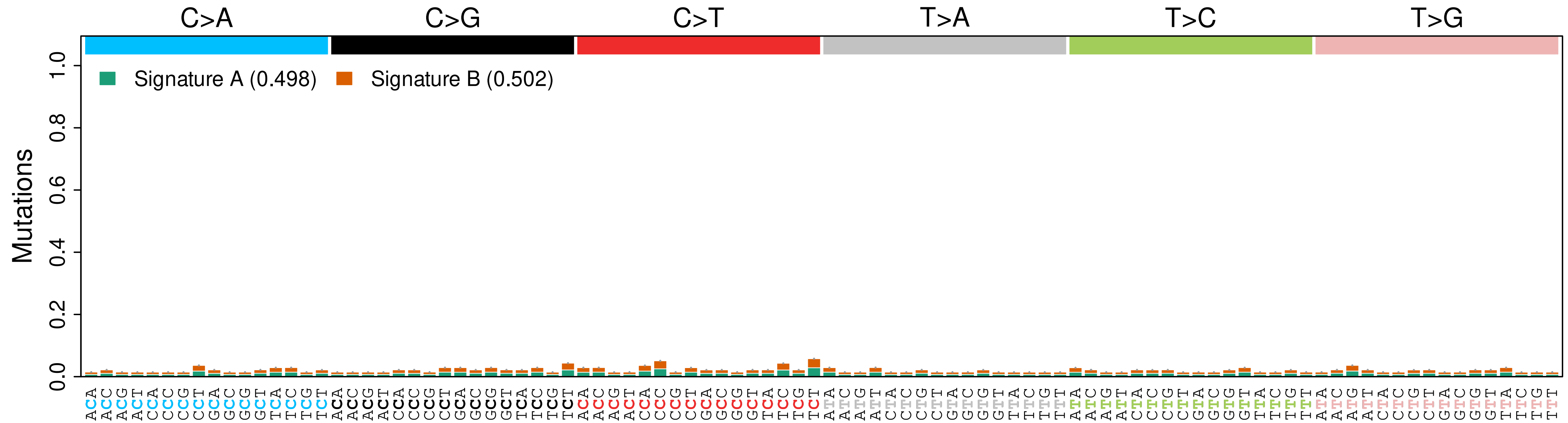
Reconstructed spectrum (cosine similarity = 0.255)



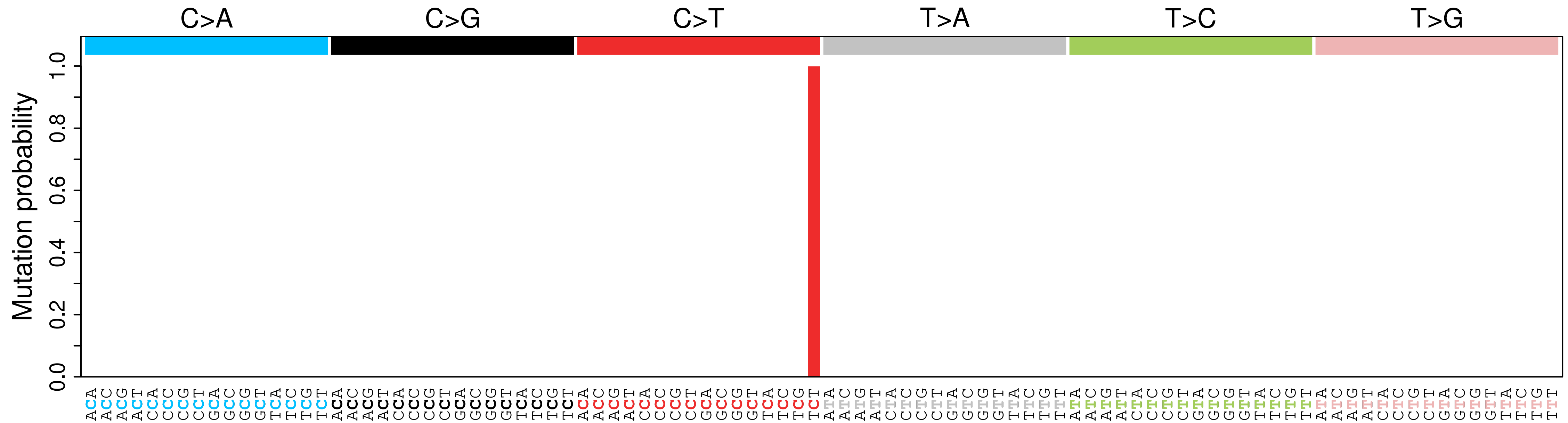
**CATD0534a**



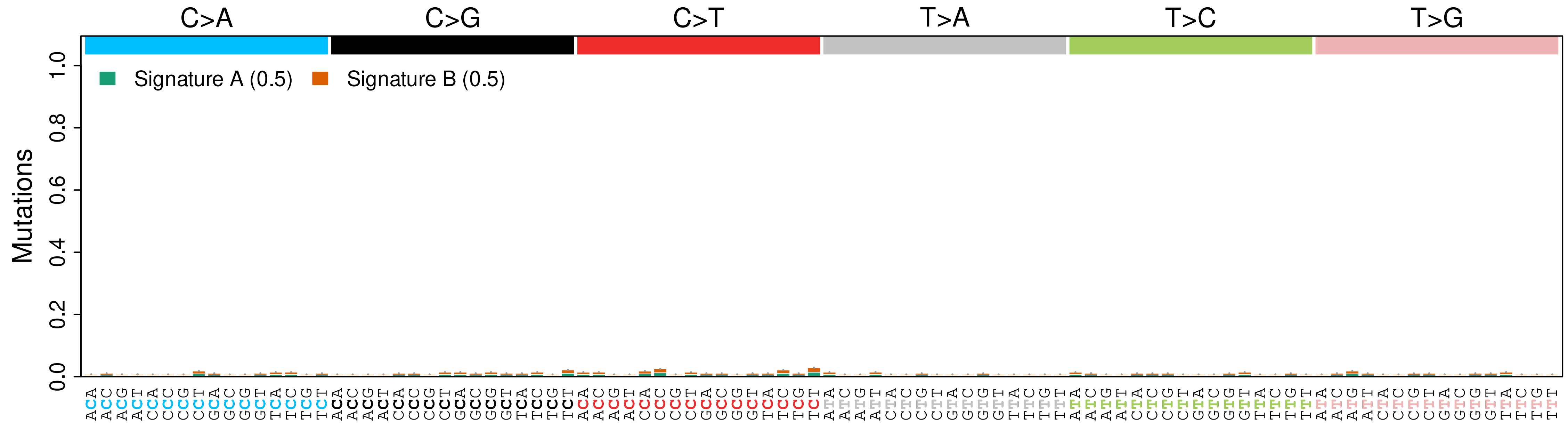
### Reconstructed spectrum (cosine similarity = 0.349)



# CATD199a



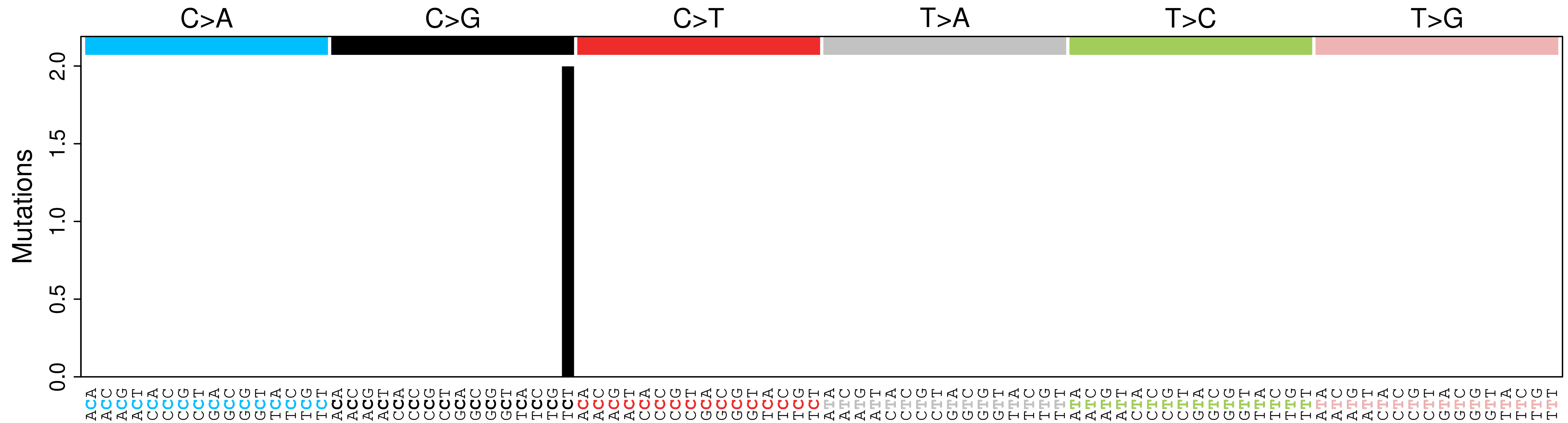
### Reconstructed spectrum (cosine similarity = 0.262)



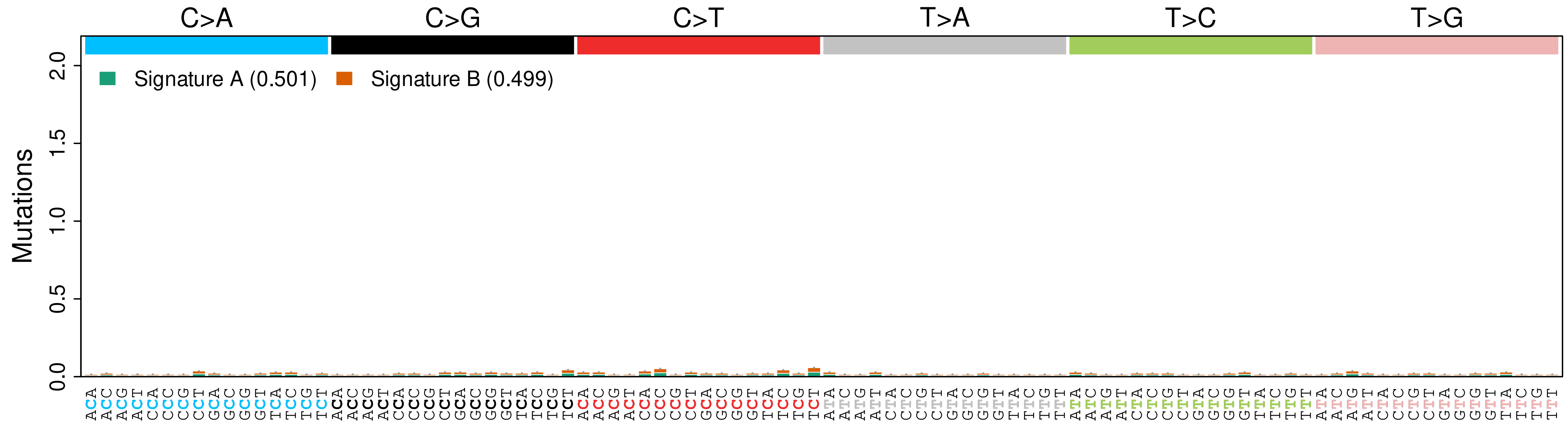




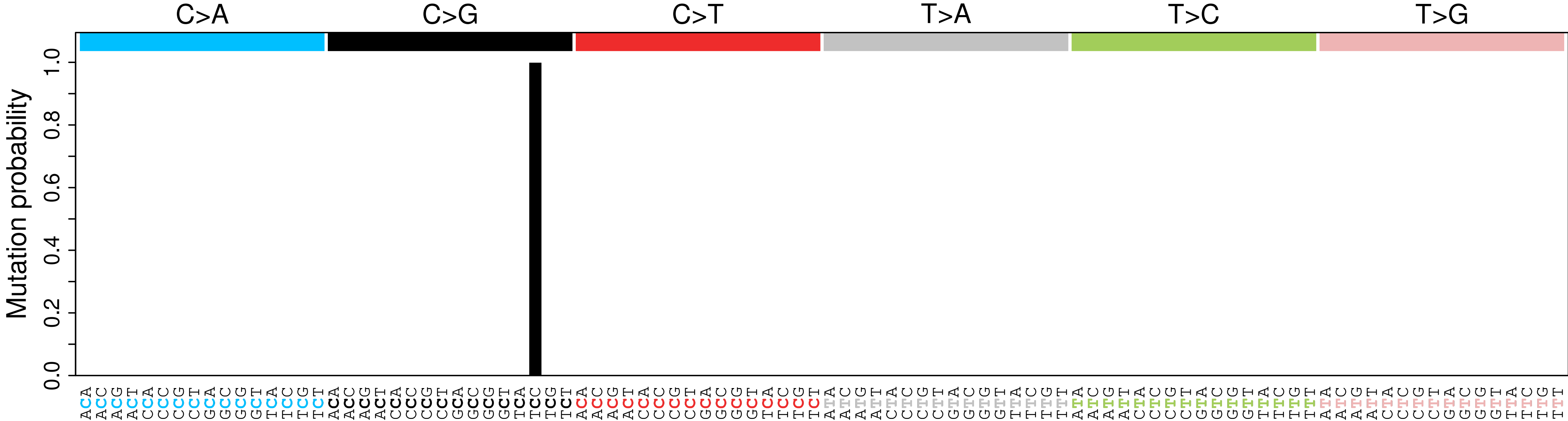
### CATD197a (2 mutations)



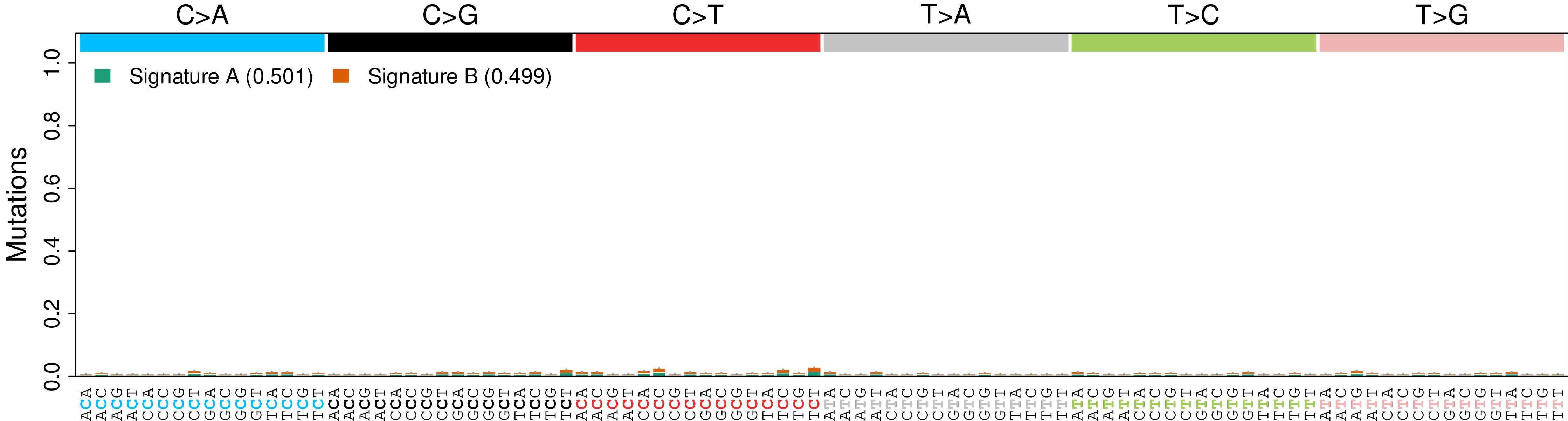
### Reconstructed spectrum (cosine similarity = 0.197)



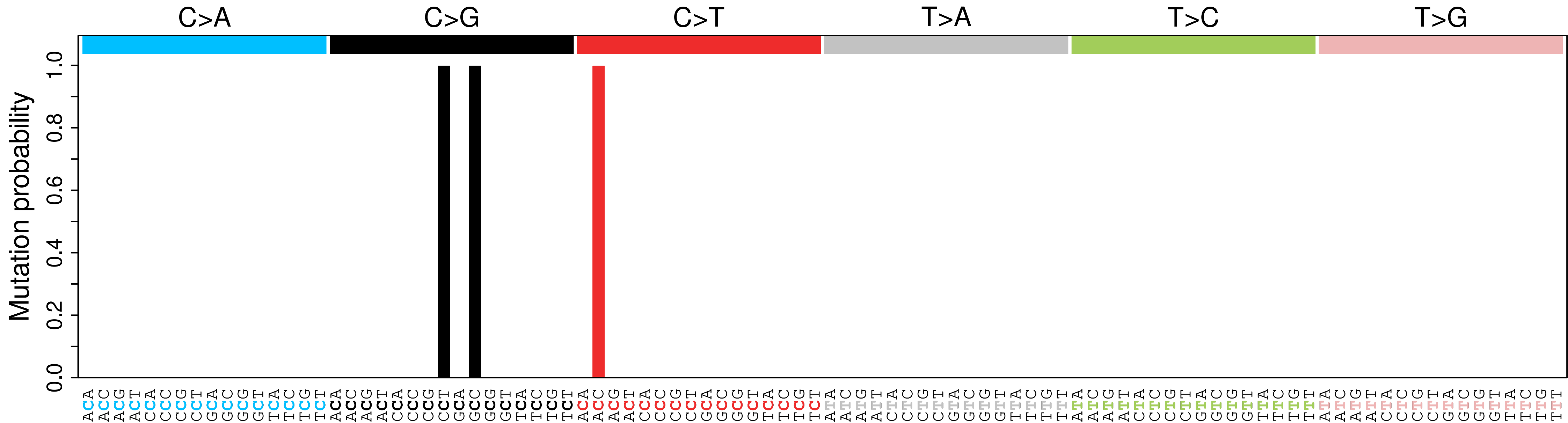
CATD0512a



Reconstructed spectrum (cosine similarity = 0.132)



CATD200a



Reconstructed spectrum (cosine similarity = 0.21)

