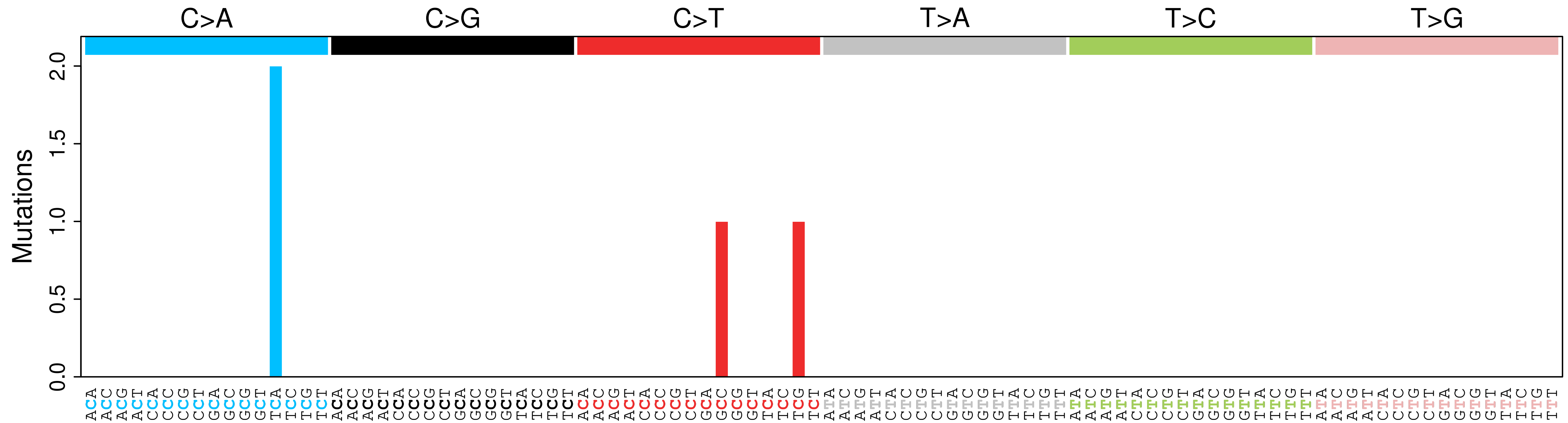
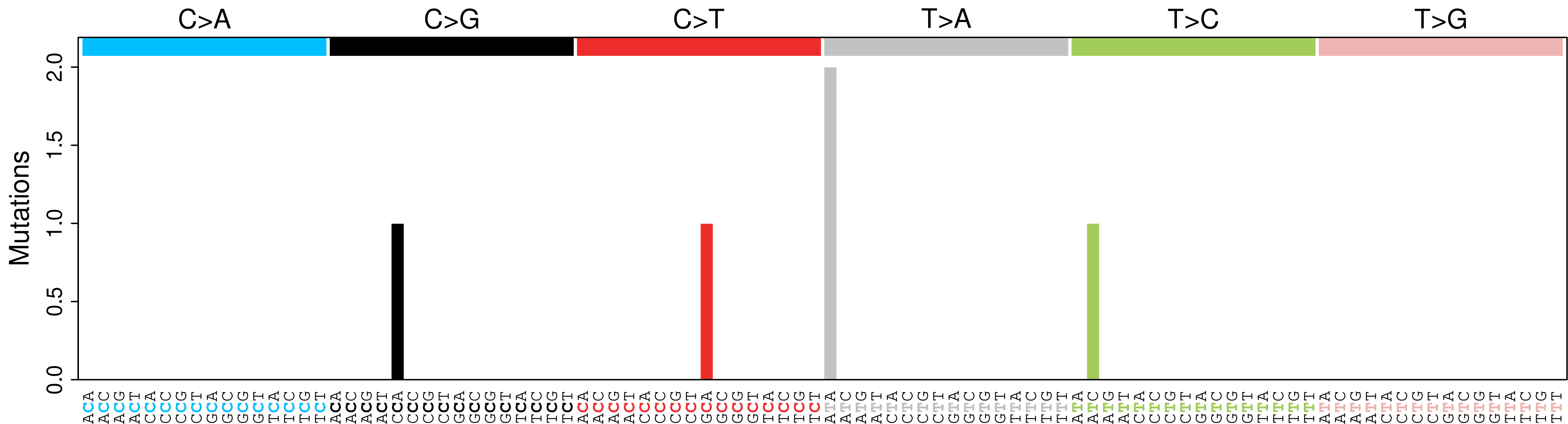


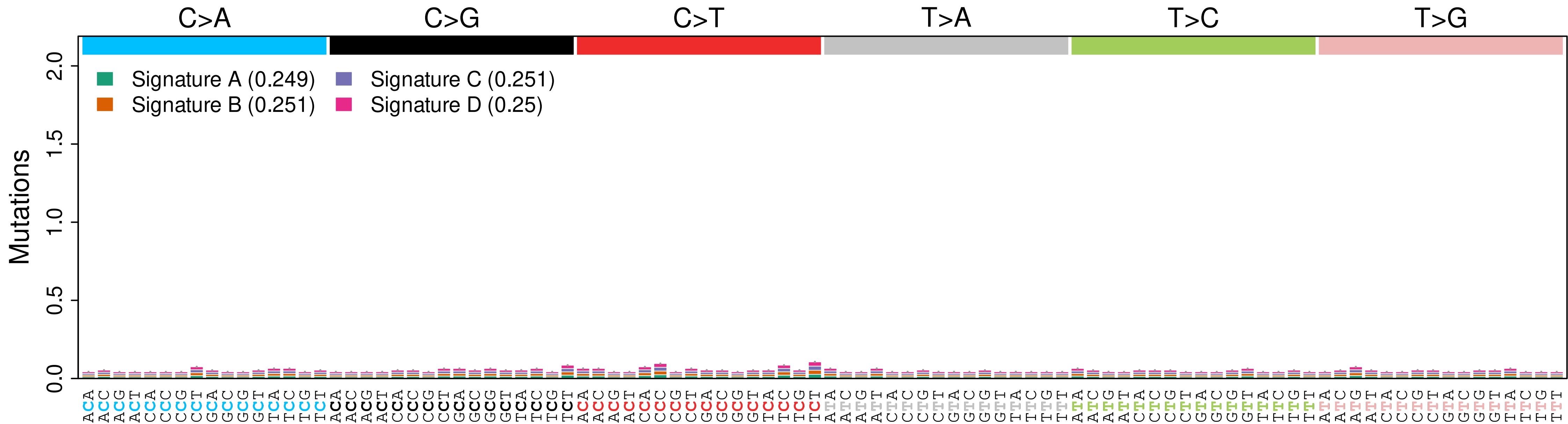
### CATD0511a (4 mutations)



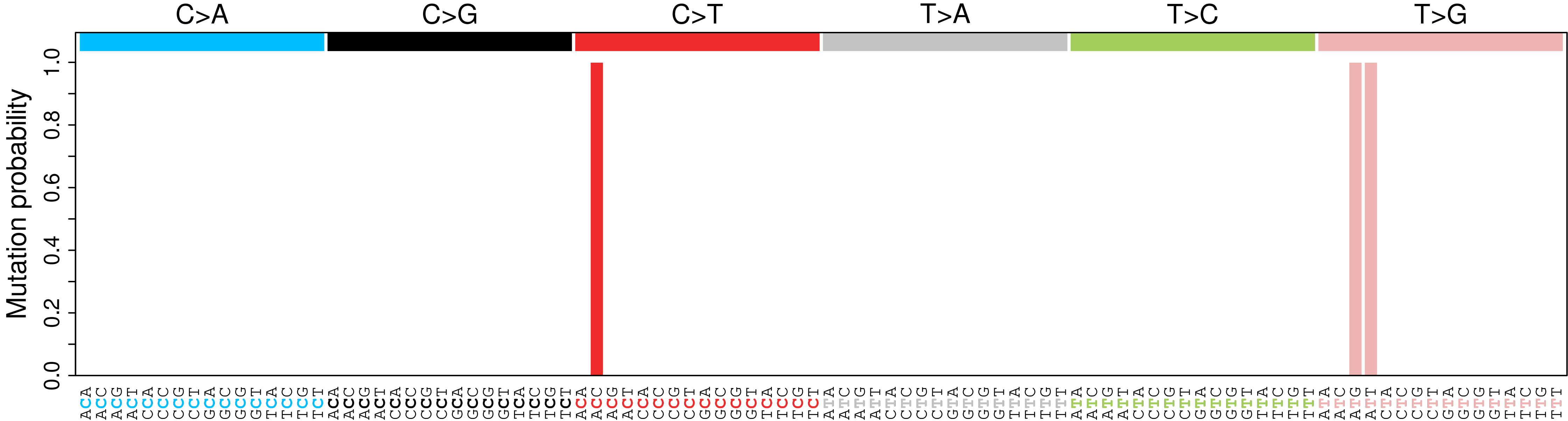
CATD0518a (5 mutations)



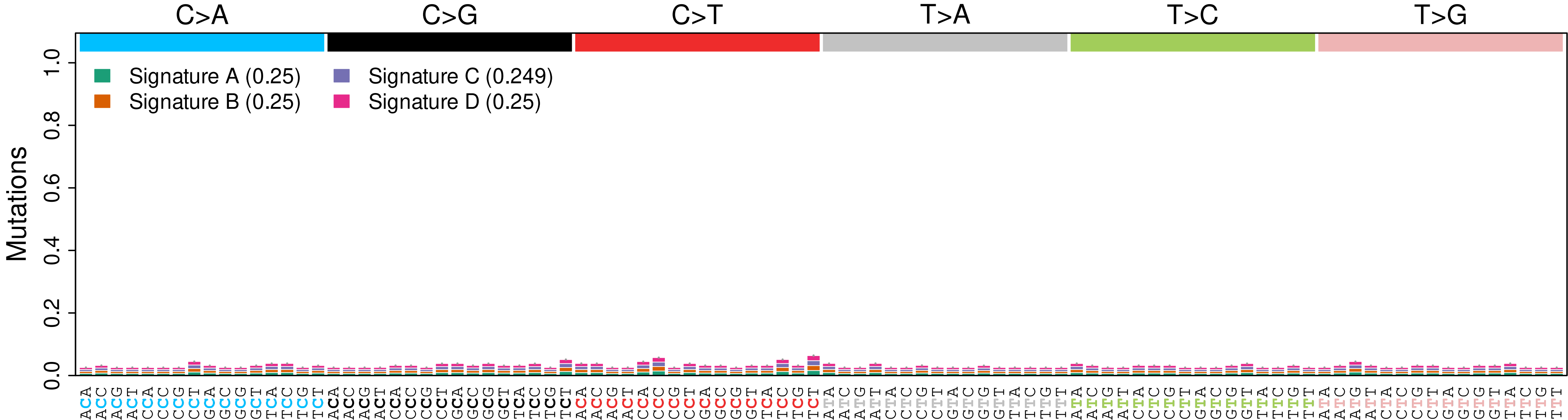
Reconstructed spectrum (cosine similarity = 0.208)



CATD0524a

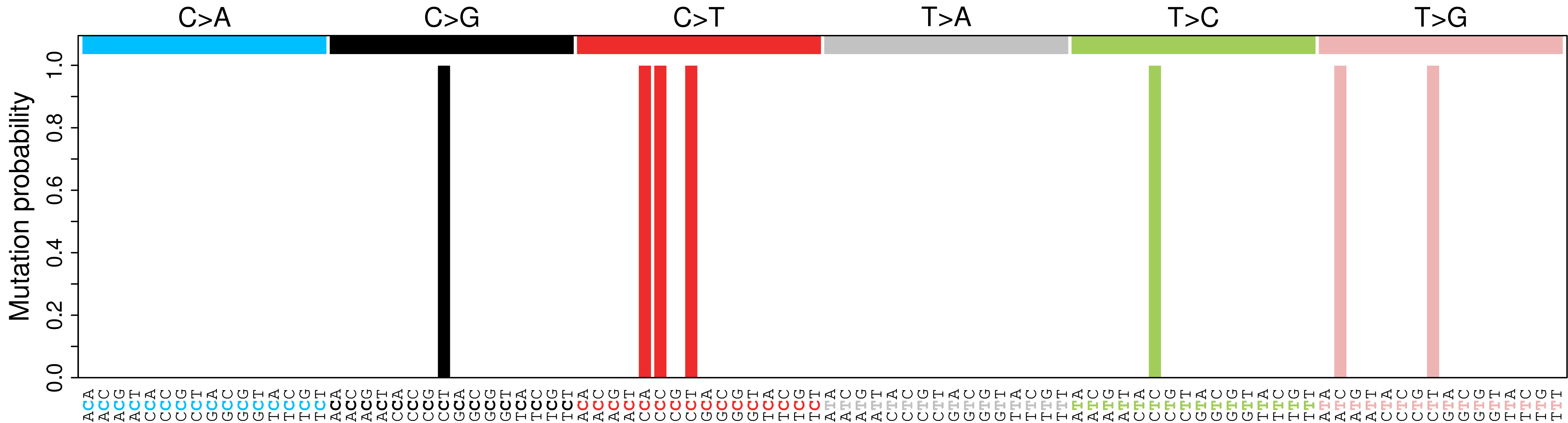


Reconstructed spectrum (cosine similarity = 0.211)

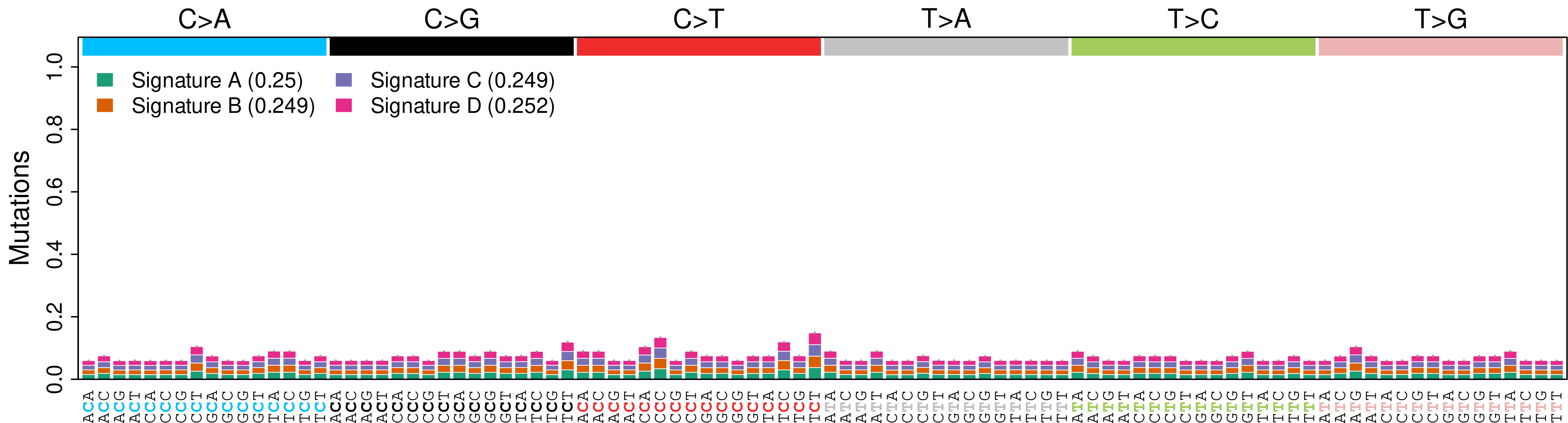




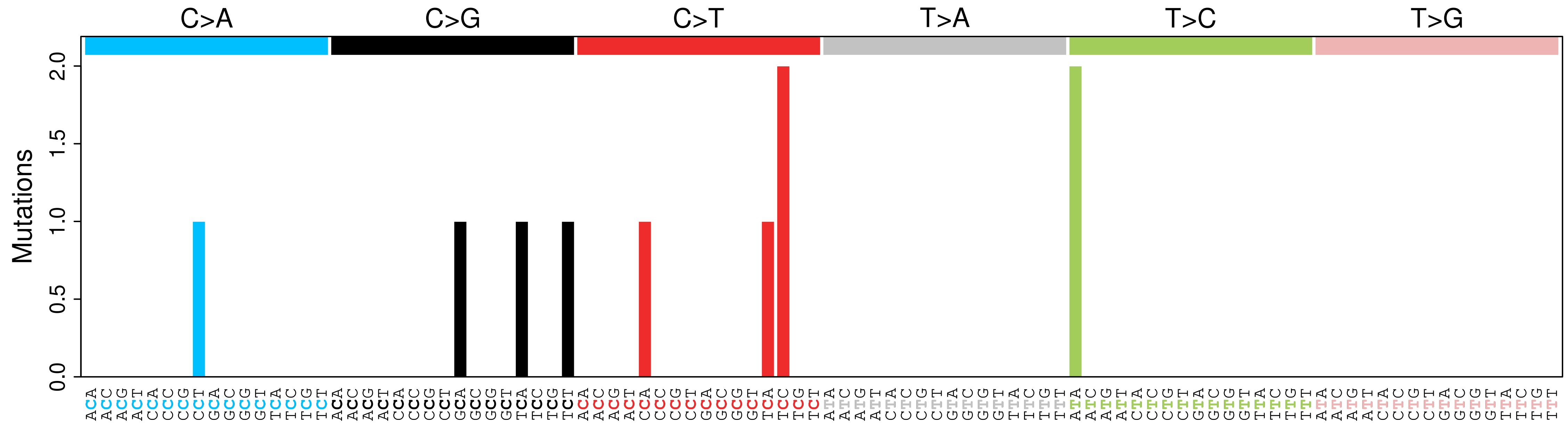
CATD196a



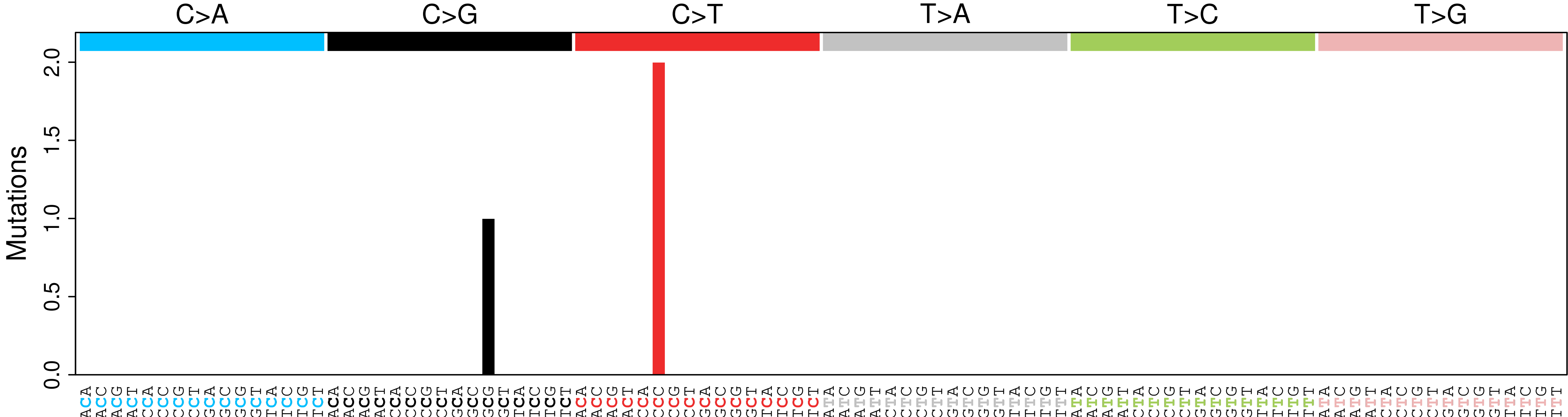
Reconstructed spectrum (cosine similarity = 0.33)



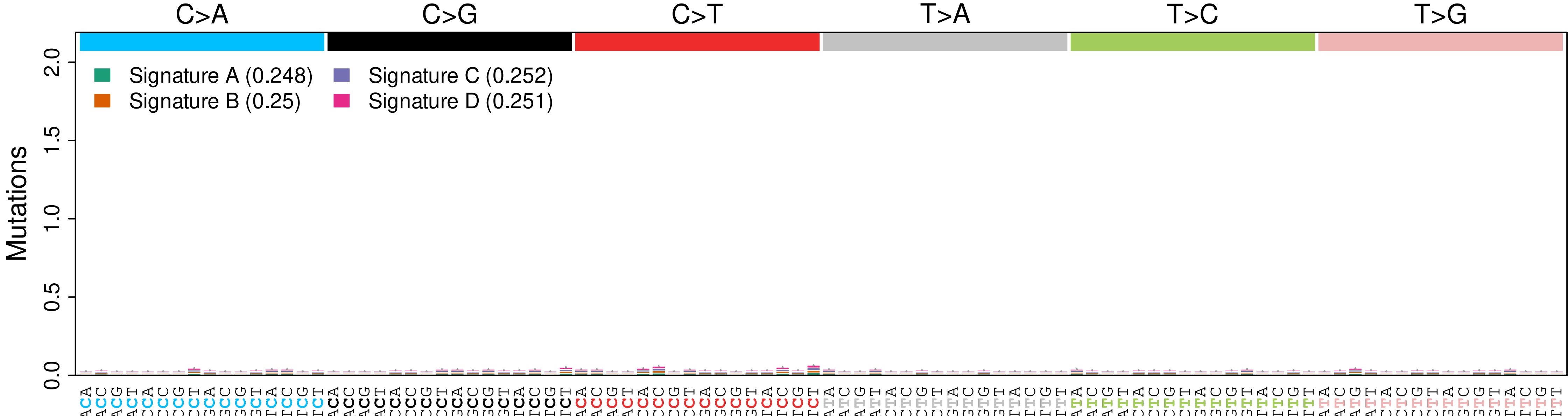
### CATD205a (10 mutations)



## CATD193a (3 mutations)



### Reconstructed spectrum (cosine similarity = 0.217)

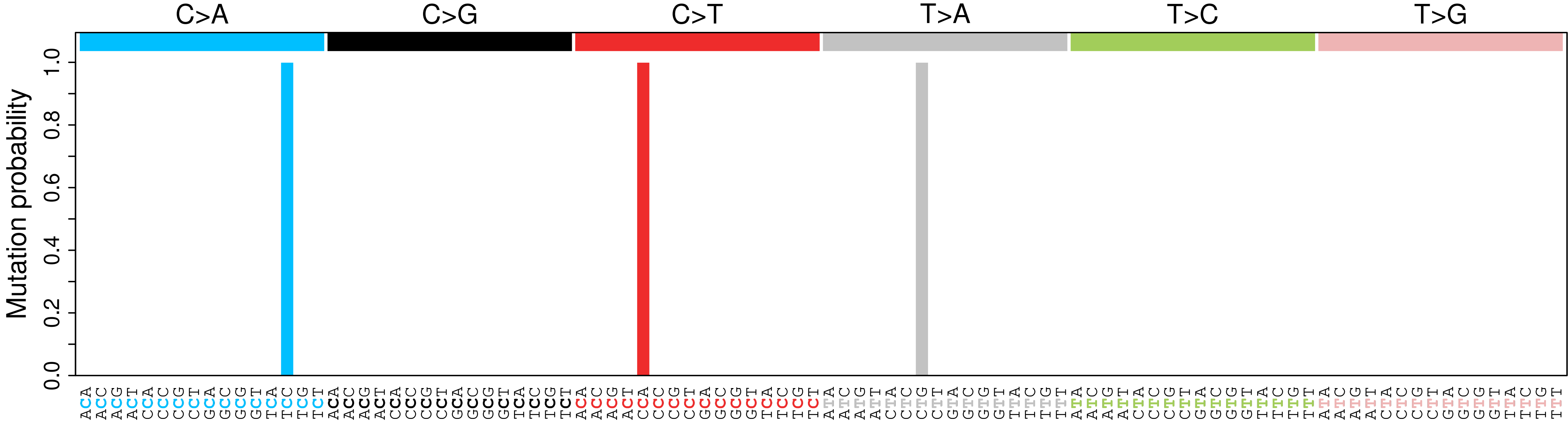




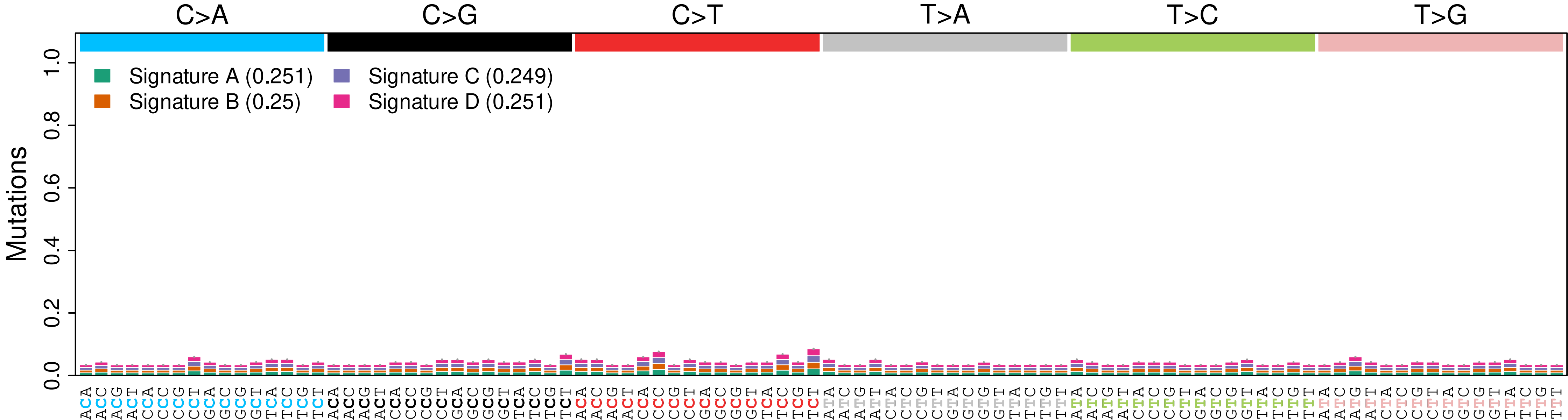




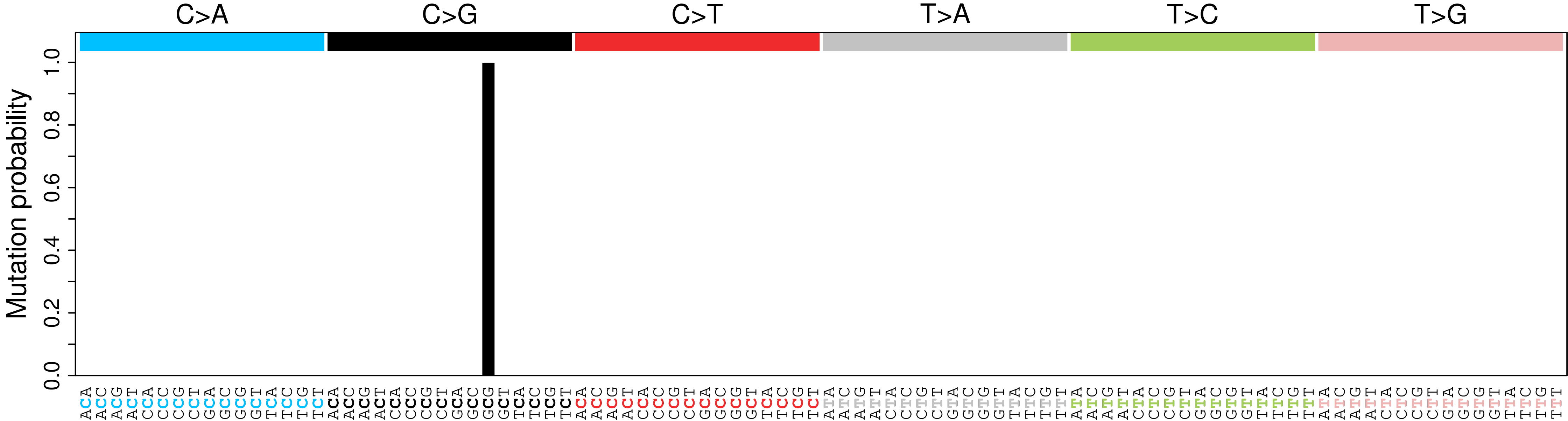
CATD0519a



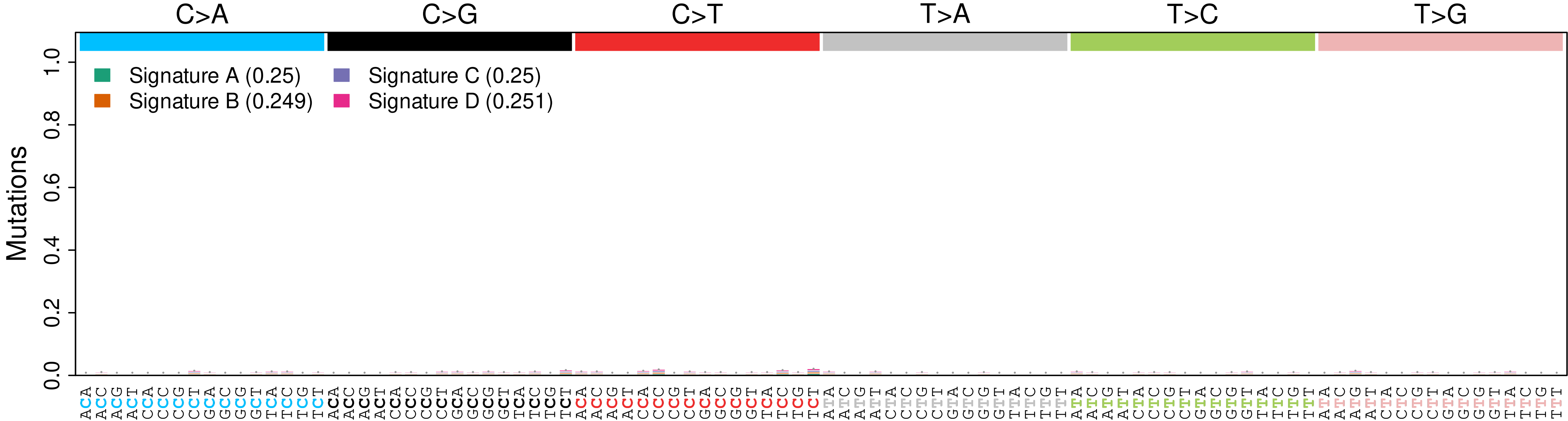
Reconstructed spectrum (cosine similarity = 0.212)



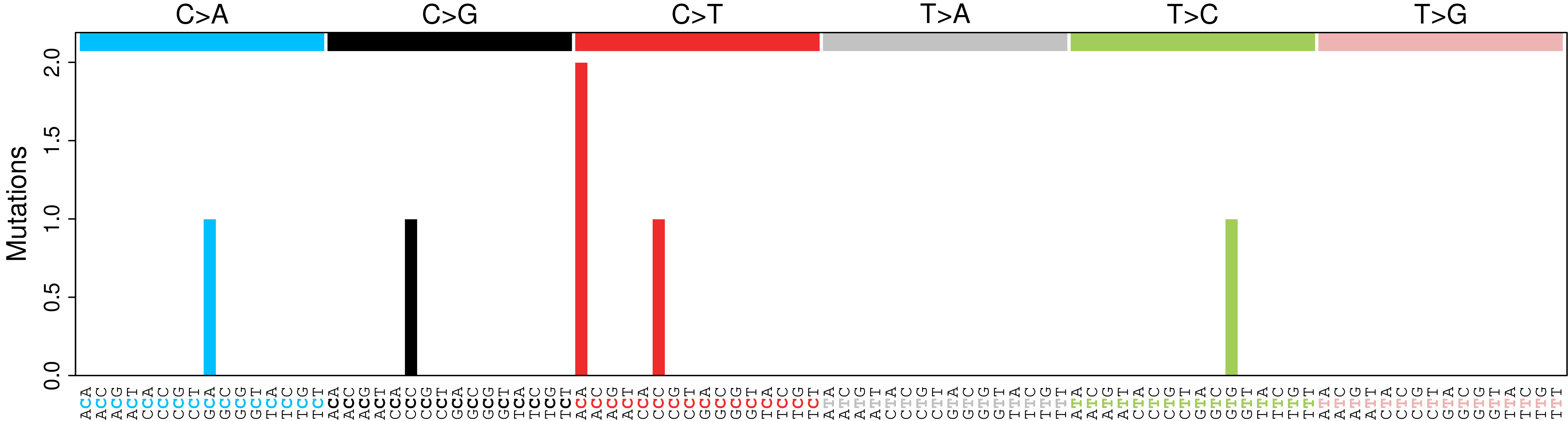
CATD0520a



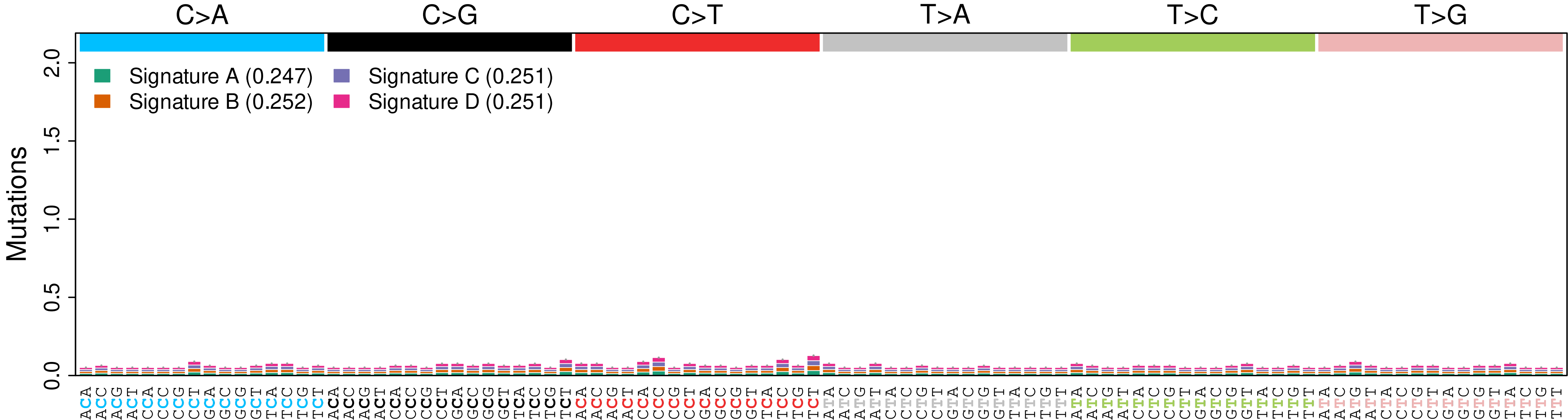
Reconstructed spectrum (cosine similarity = 0.122)



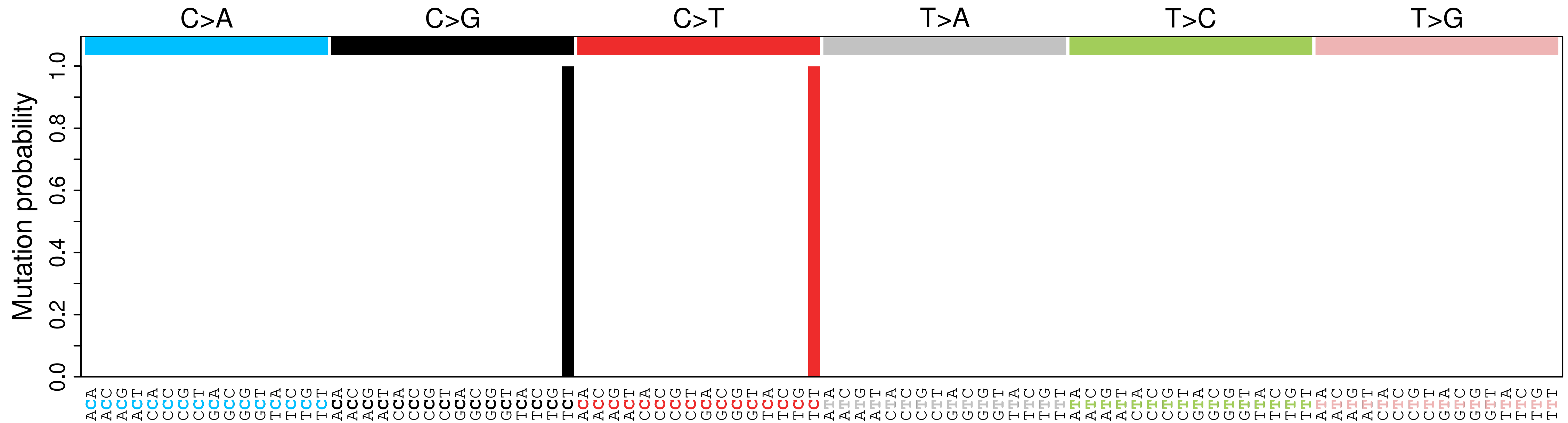
CATD0517a (6 mutations)



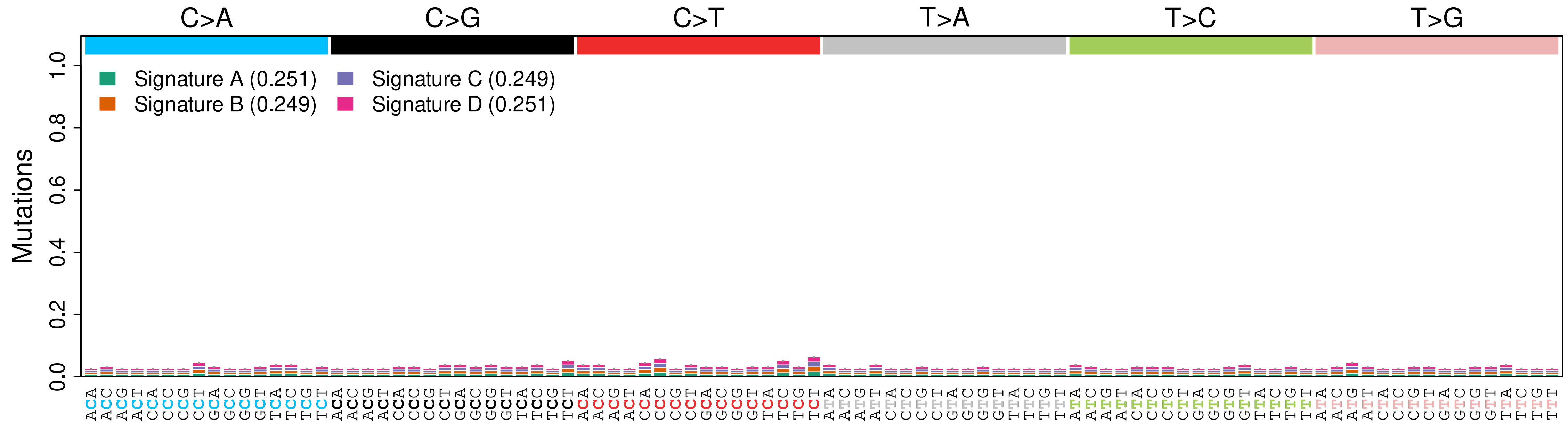
Reconstructed spectrum (cosine similarity = 0.259)



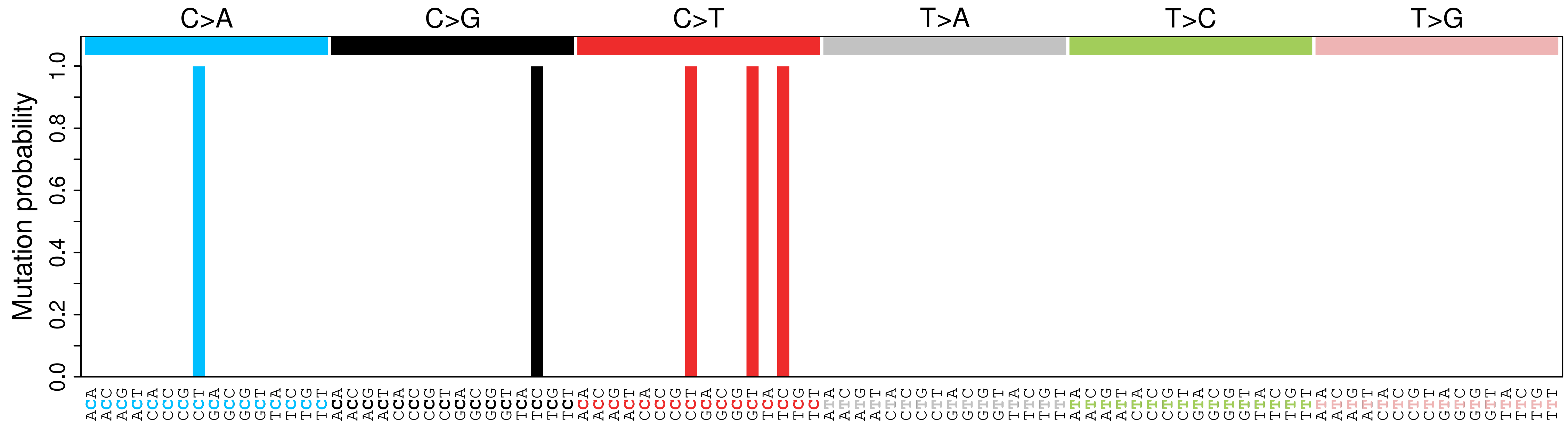
# CATD210a



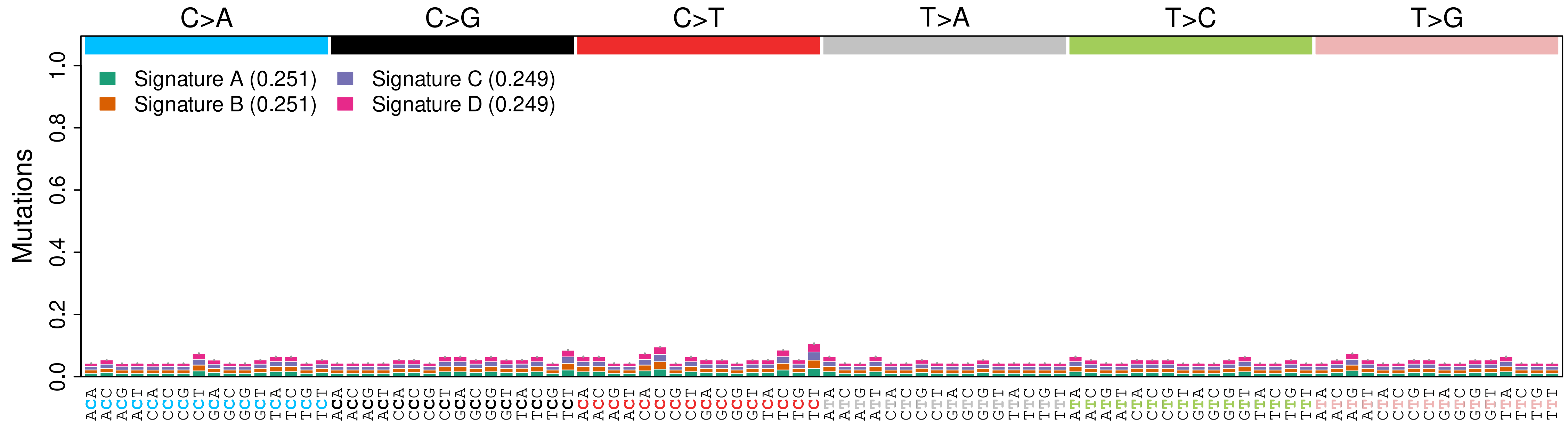
### Reconstructed spectrum (cosine similarity = 0.258)



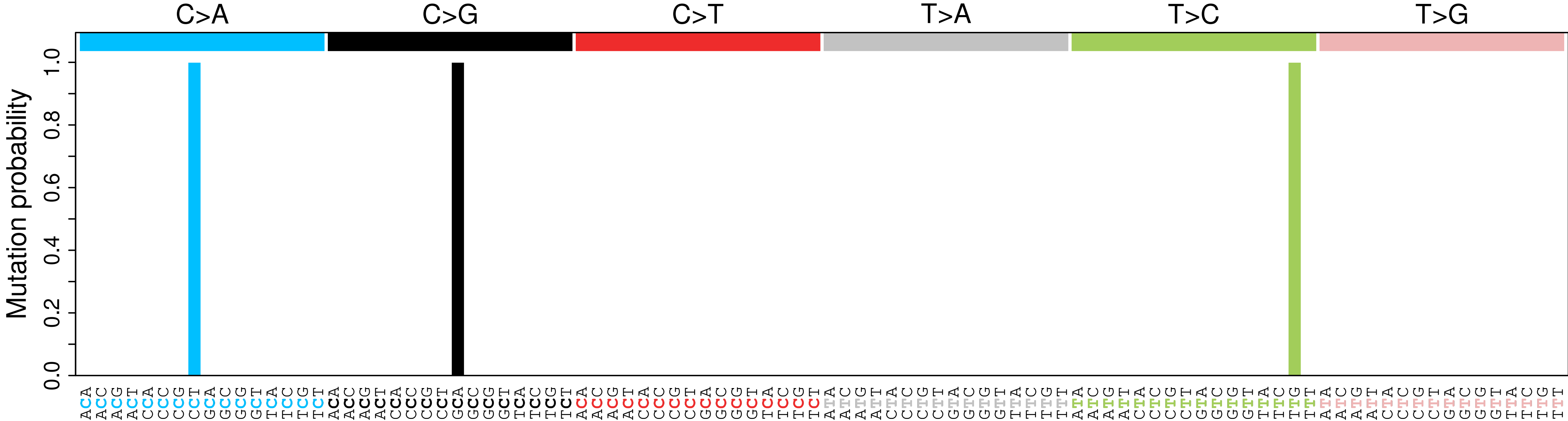
# CATD212a



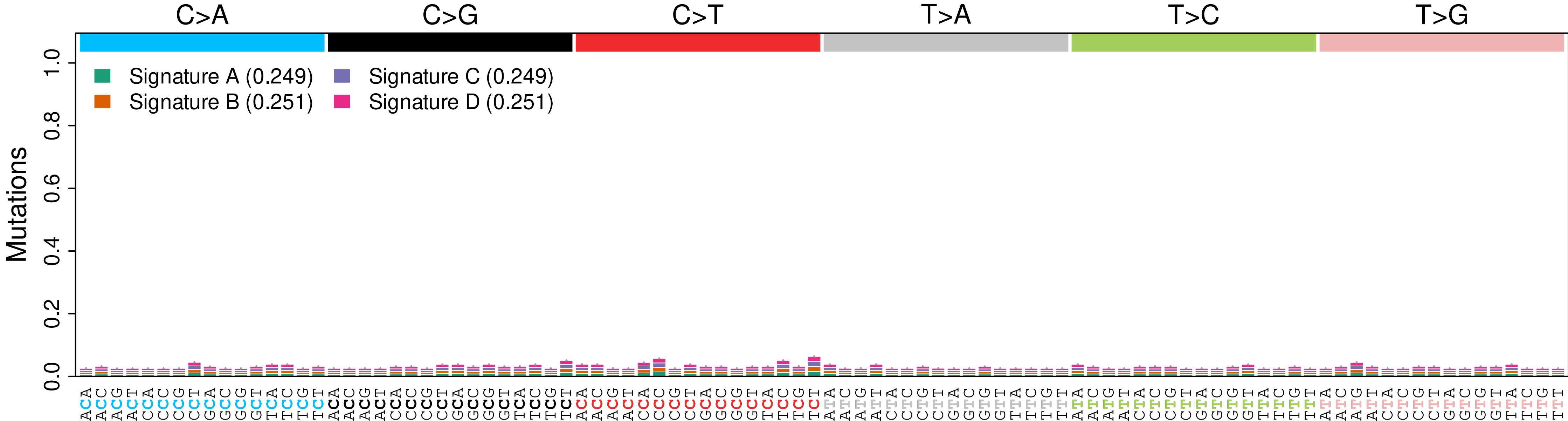
### Reconstructed spectrum (cosine similarity = 0.291)



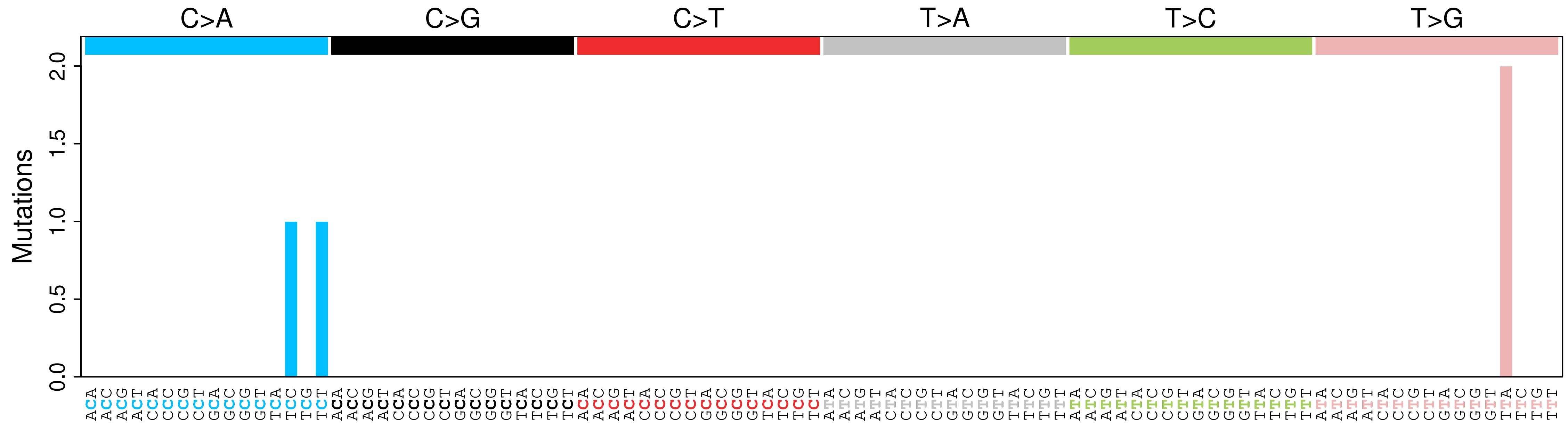
CATD209a



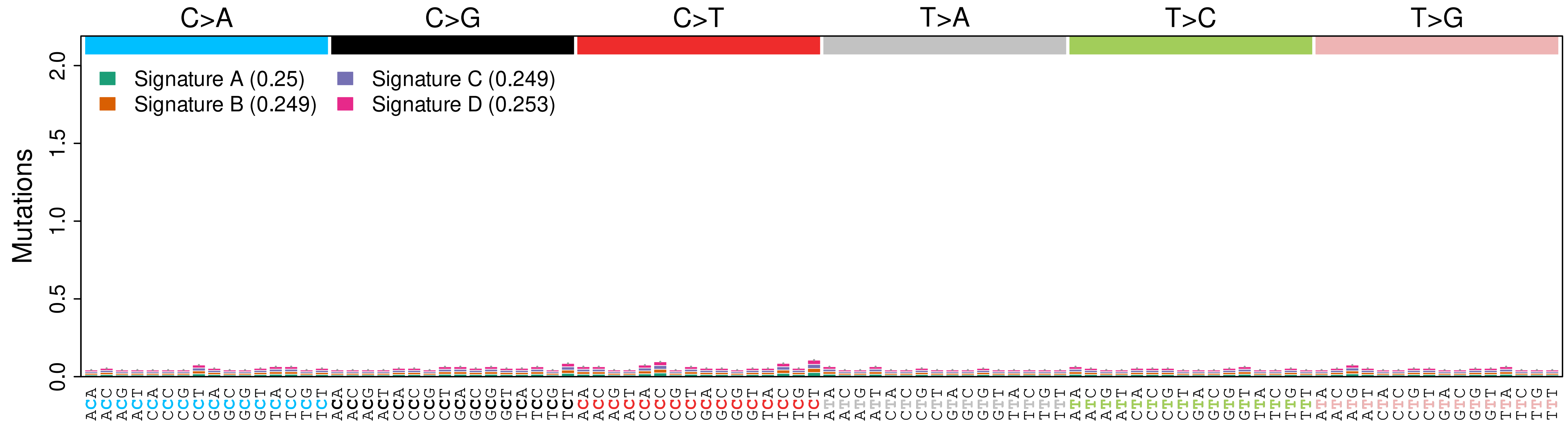
Reconstructed spectrum (cosine similarity = 0.211)



### CATD206a (4 mutations)

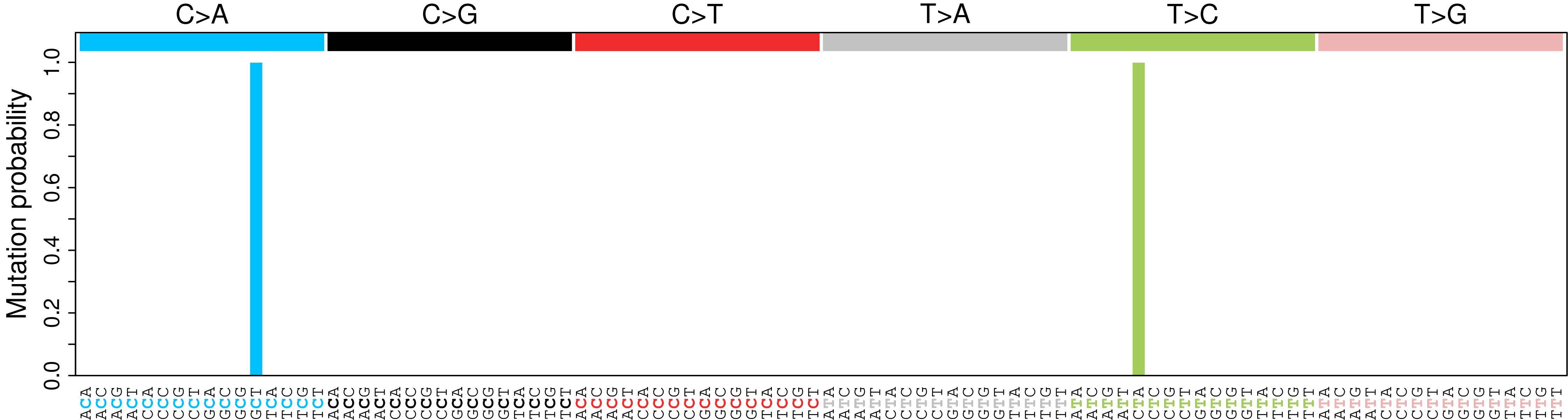


### Reconstructed spectrum (cosine similarity = 0.191)

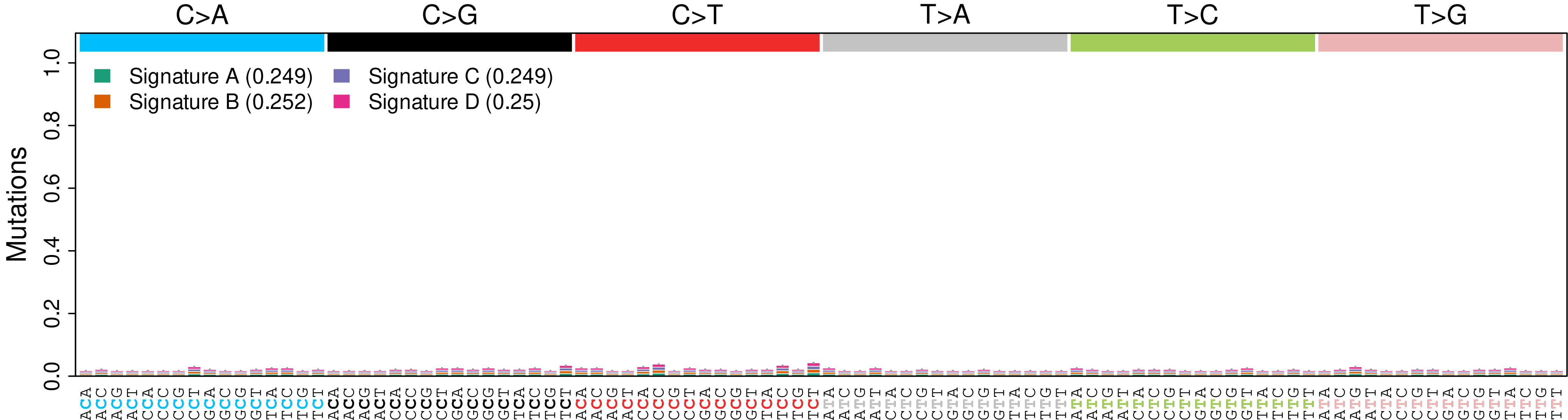




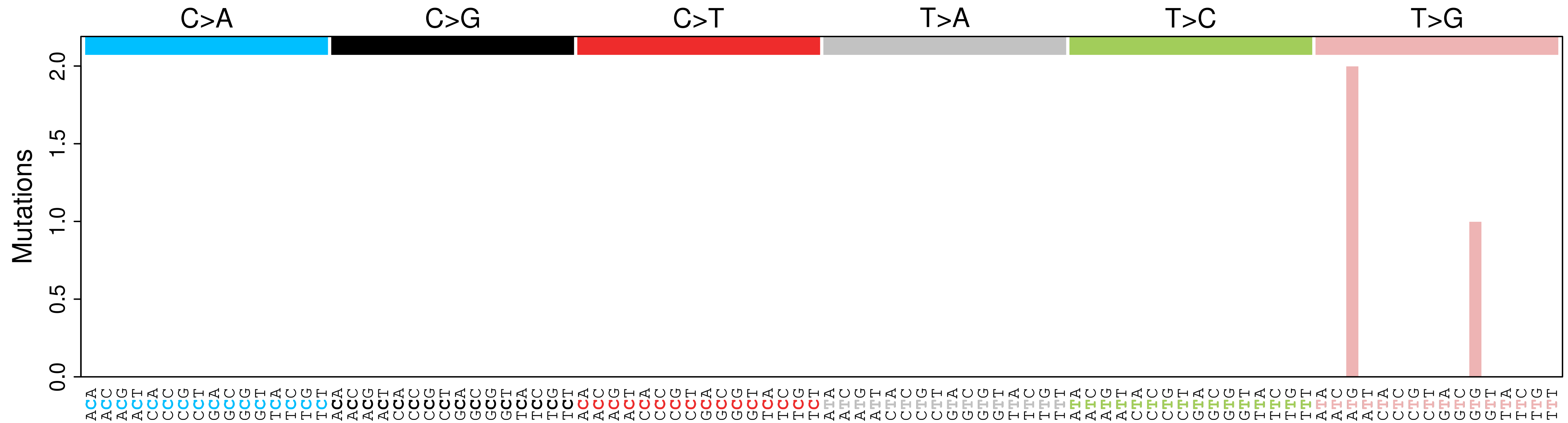
CATD0513a



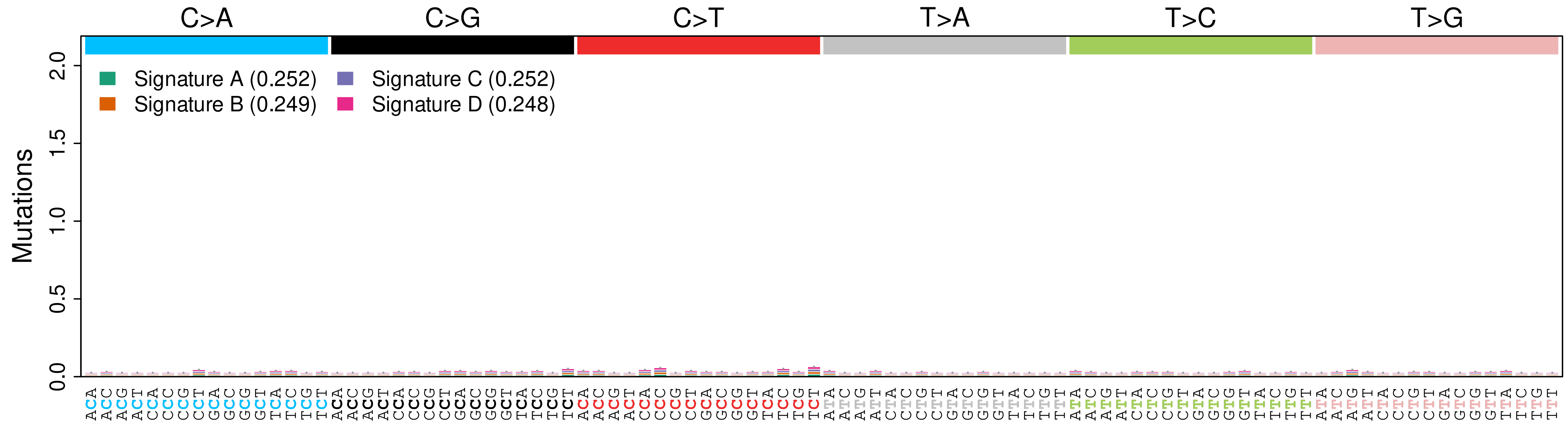
Reconstructed spectrum (cosine similarity = 0.144)



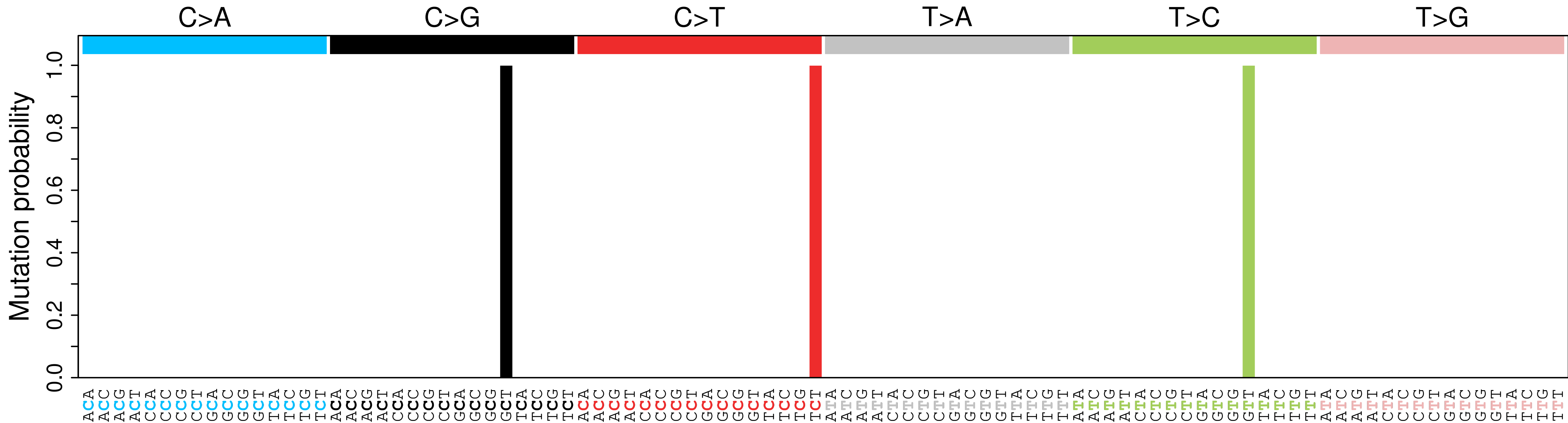
### CATD0509a (3 mutations)



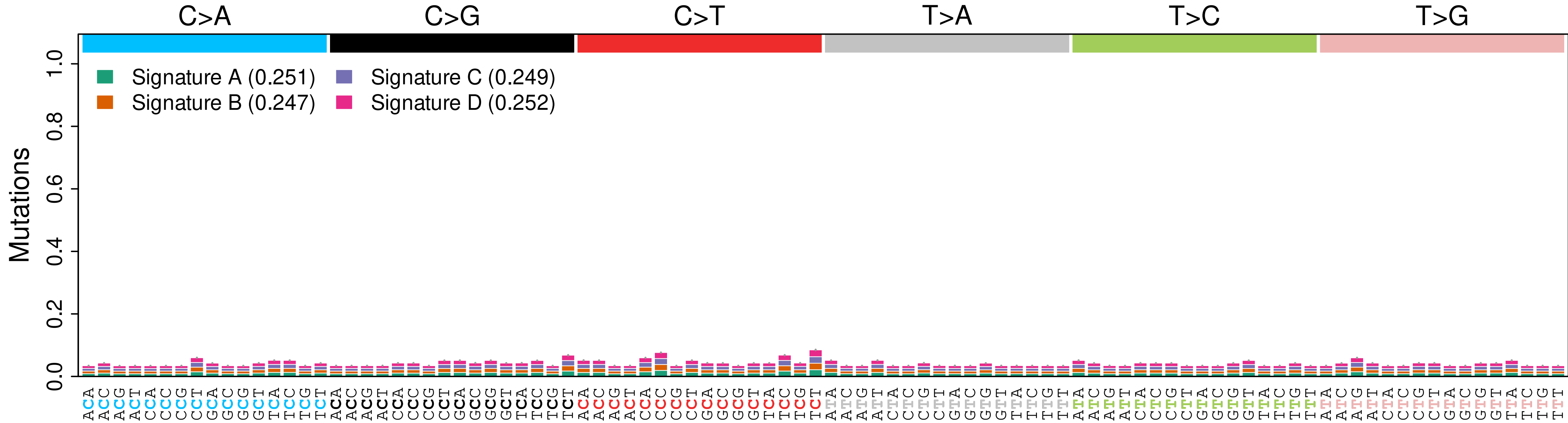
### Reconstructed spectrum (cosine similarity = 0.172)



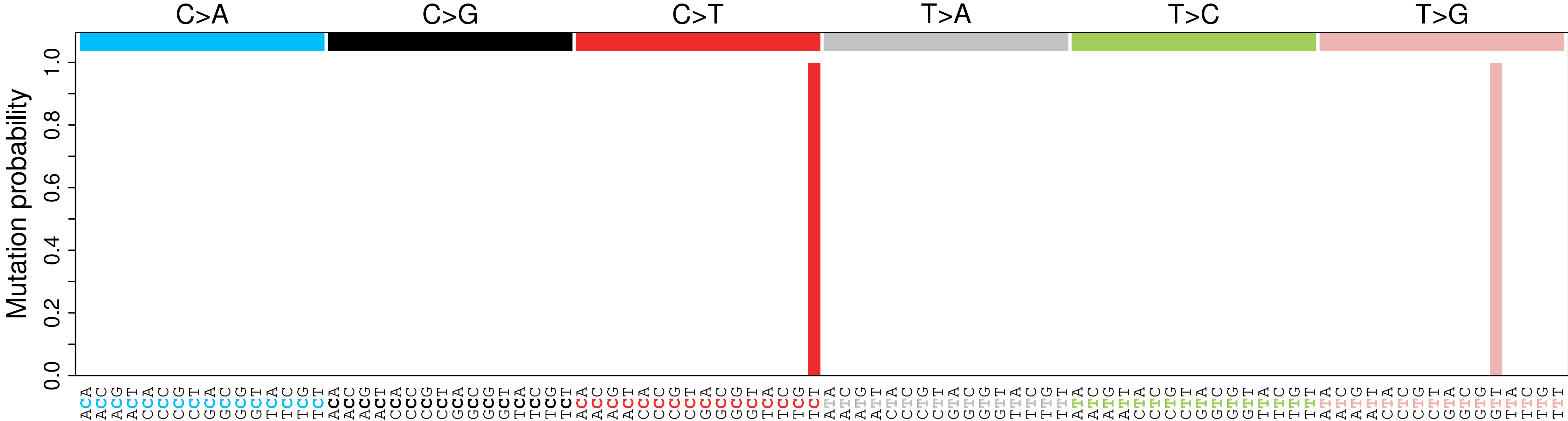
CATD203a



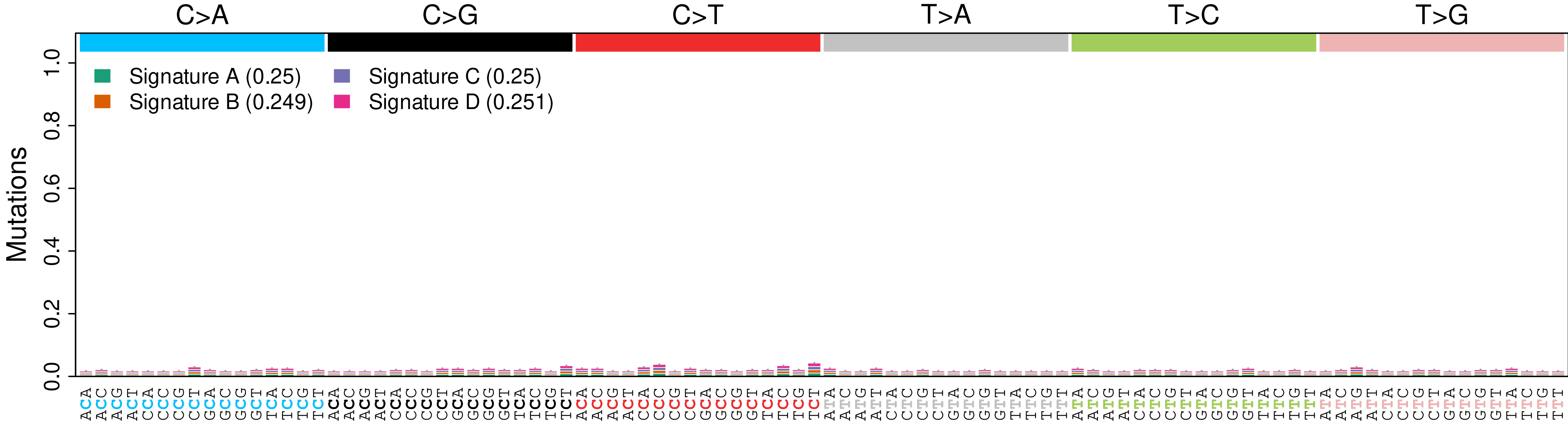
Reconstructed spectrum (cosine similarity = 0.246)

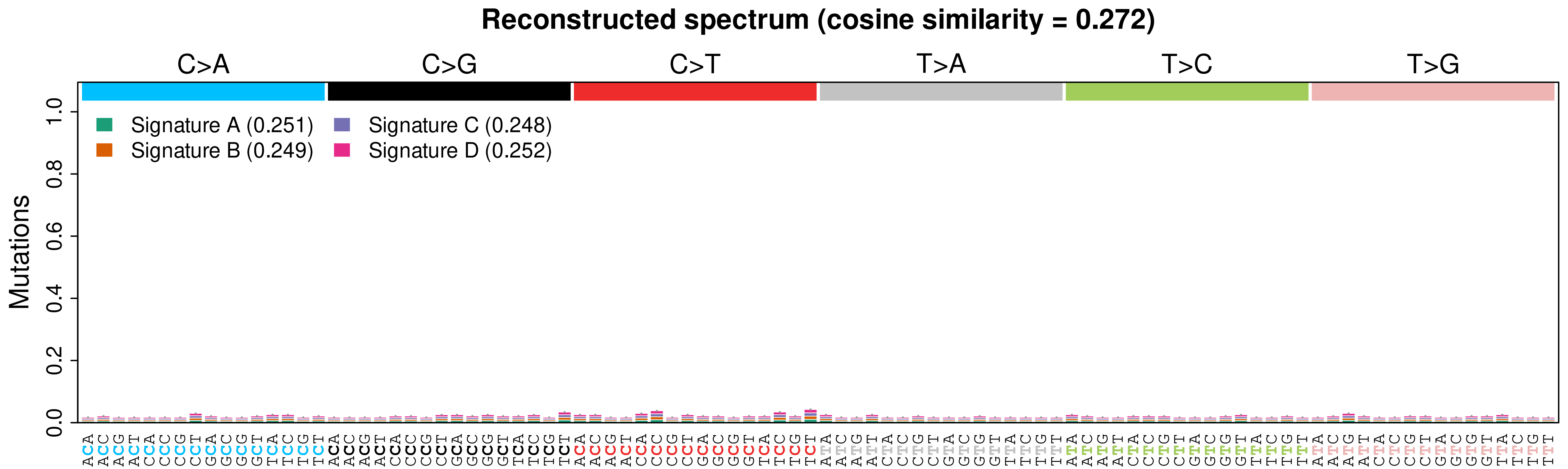
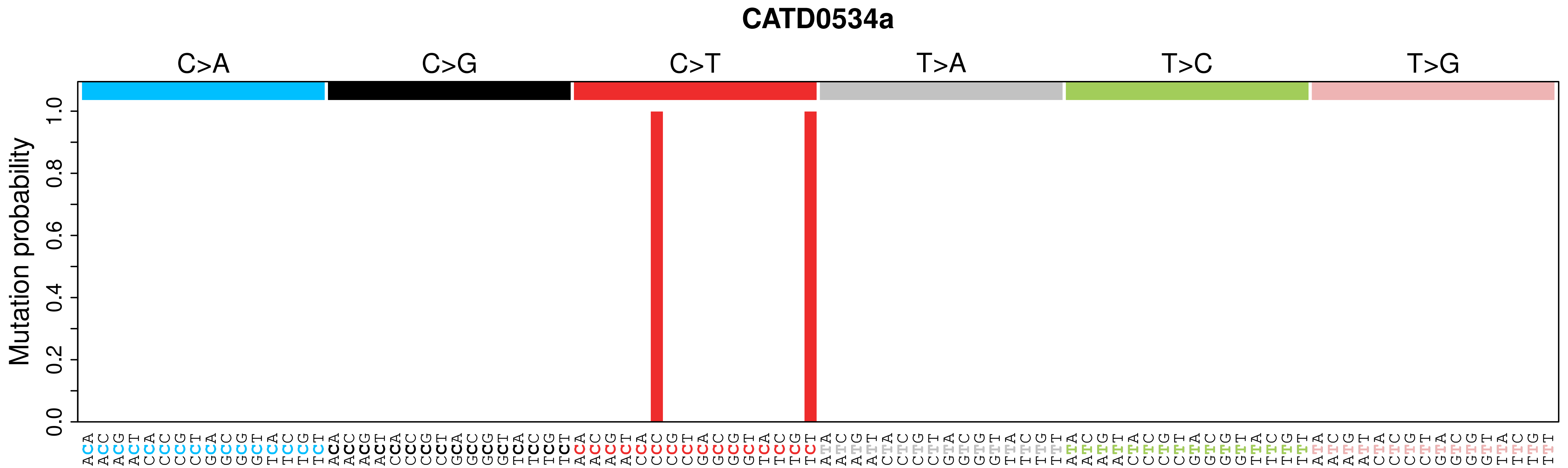


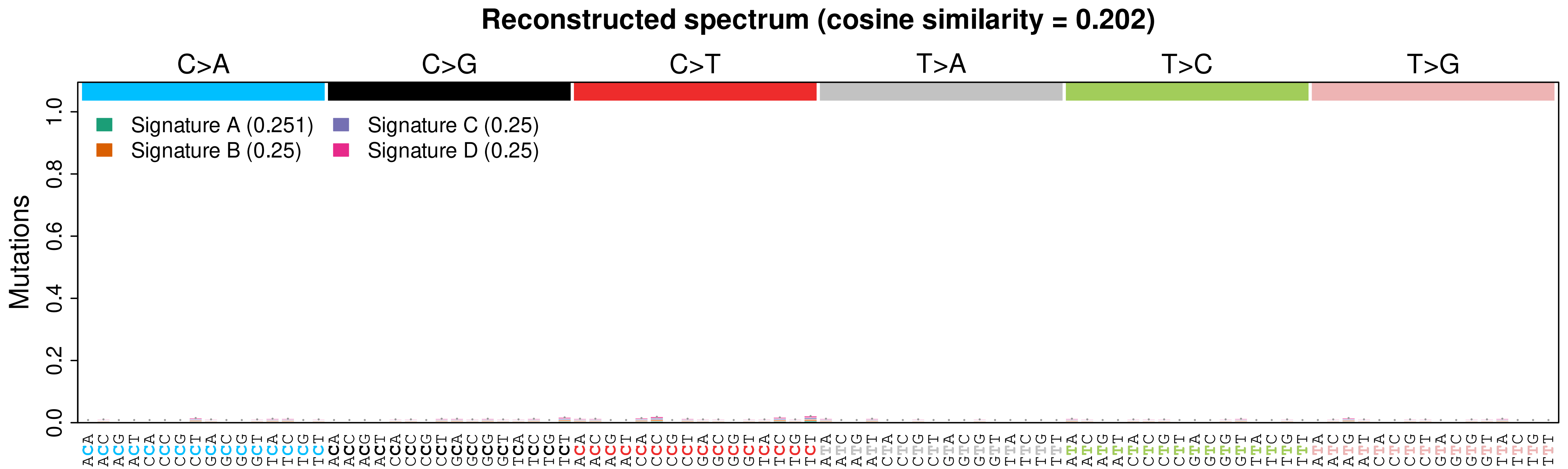
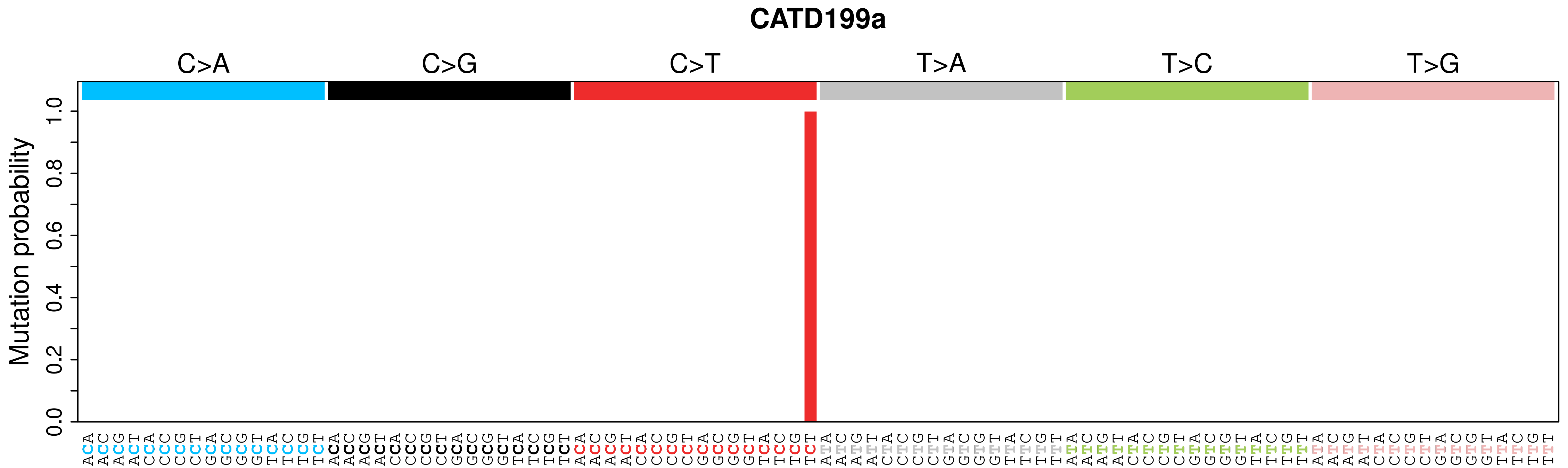
CATD0533a

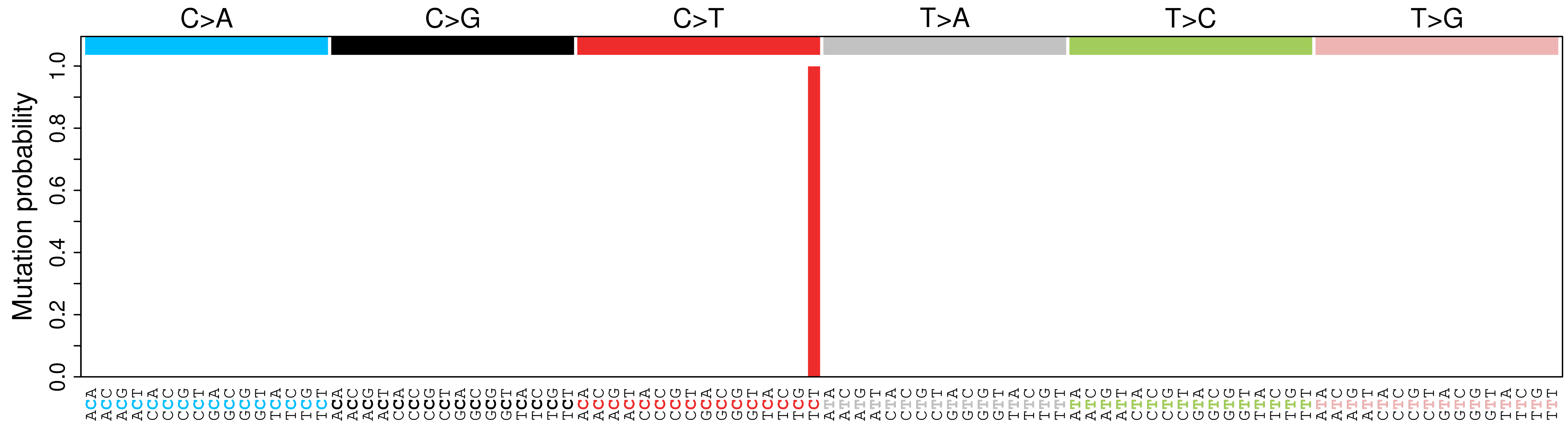


Reconstructed spectrum (cosine similarity = 0.215)

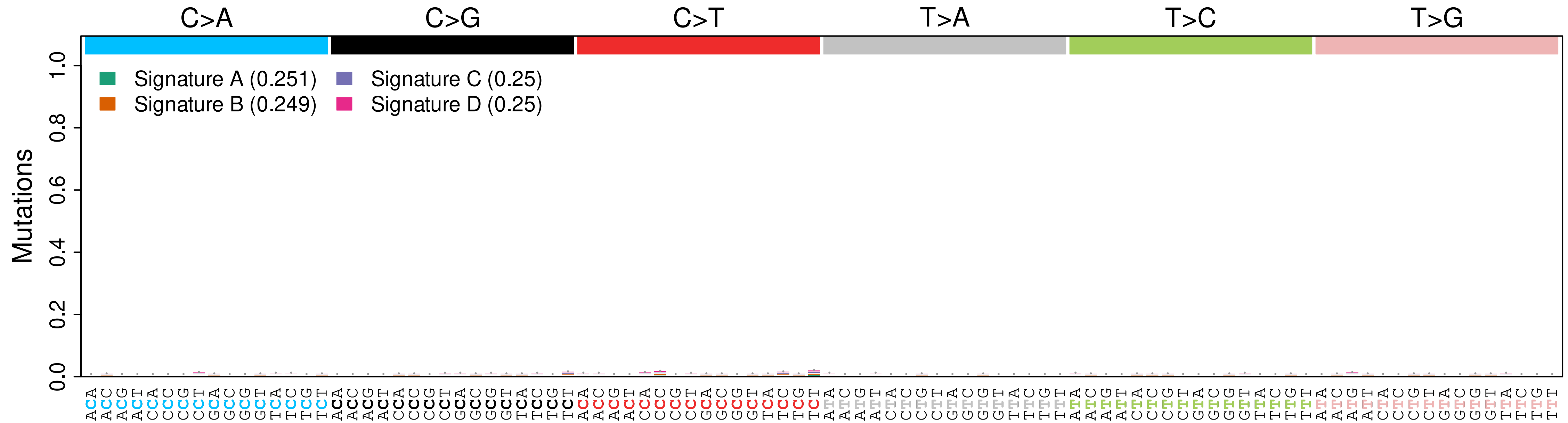






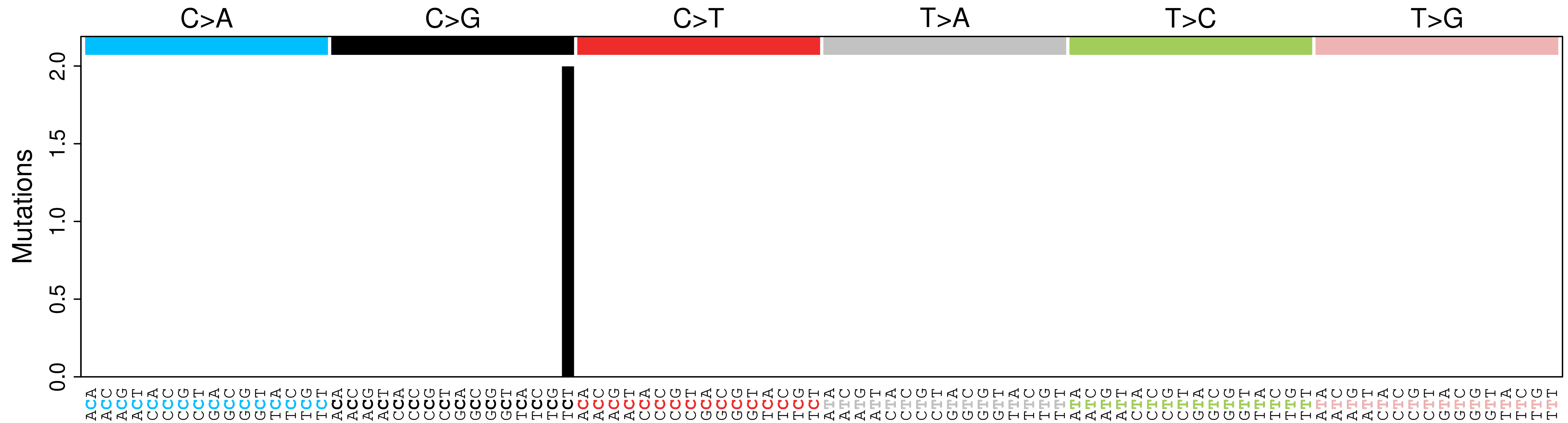
**CATD207a**

### Reconstructed spectrum (cosine similarity = 0.202)

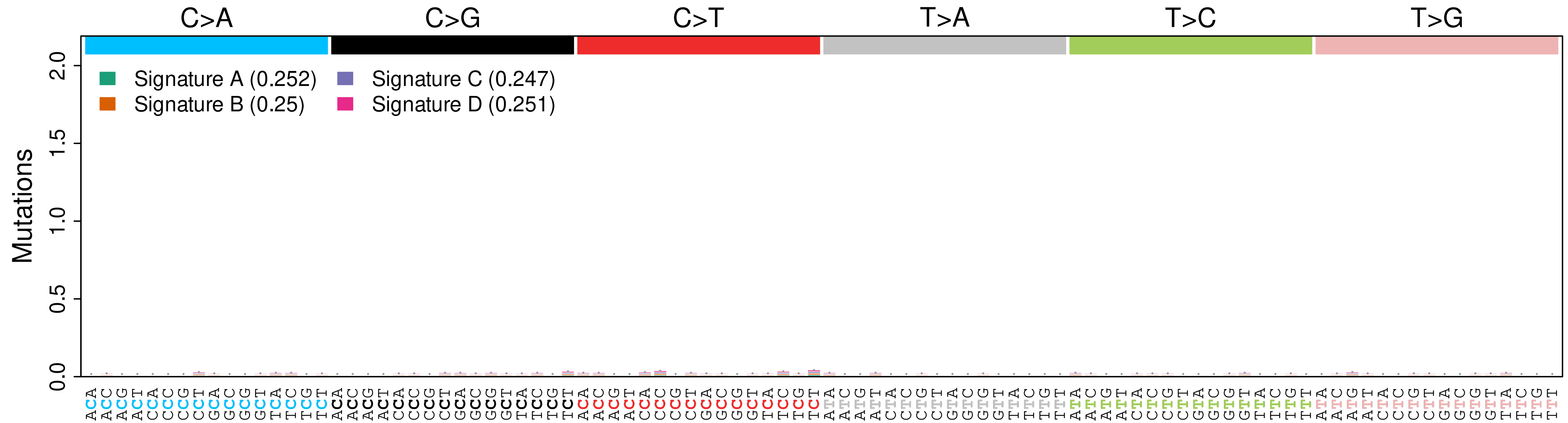




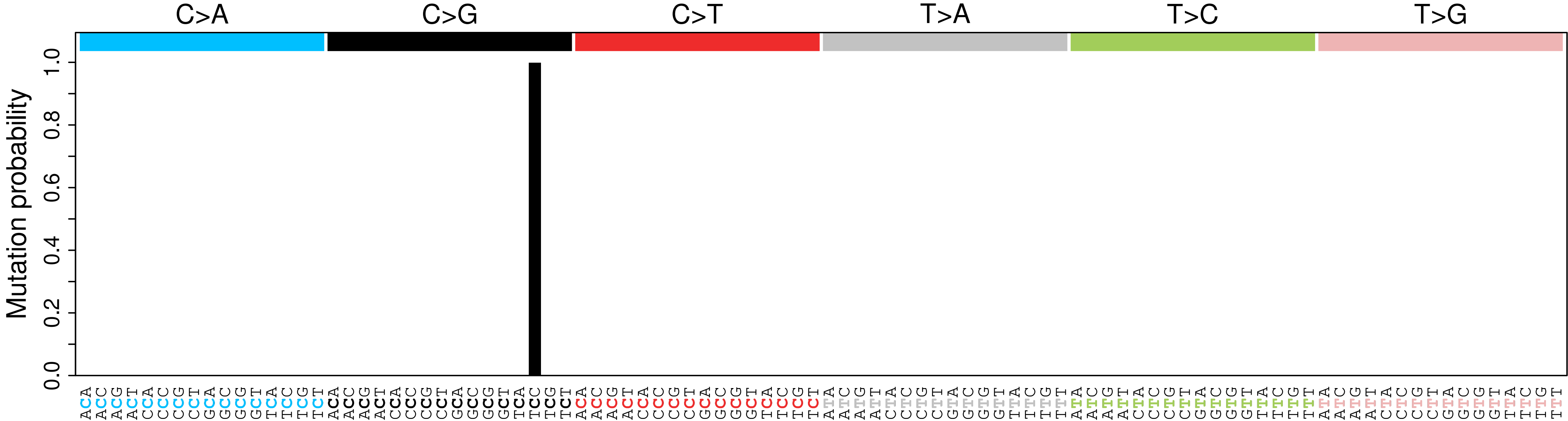
### CATD197a (2 mutations)



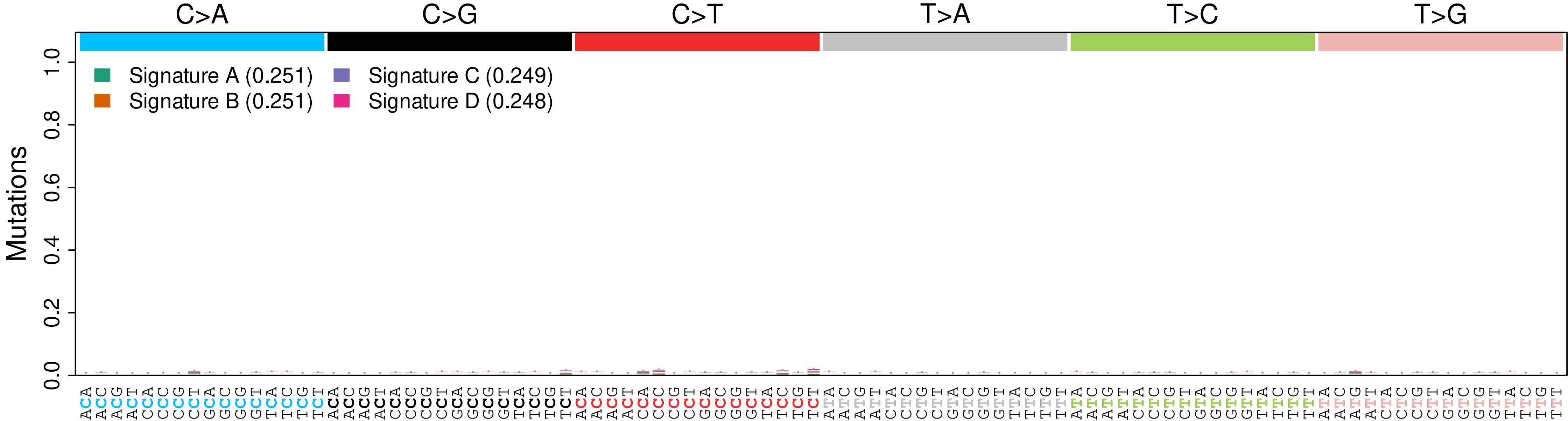
### Reconstructed spectrum (cosine similarity = 0.162)



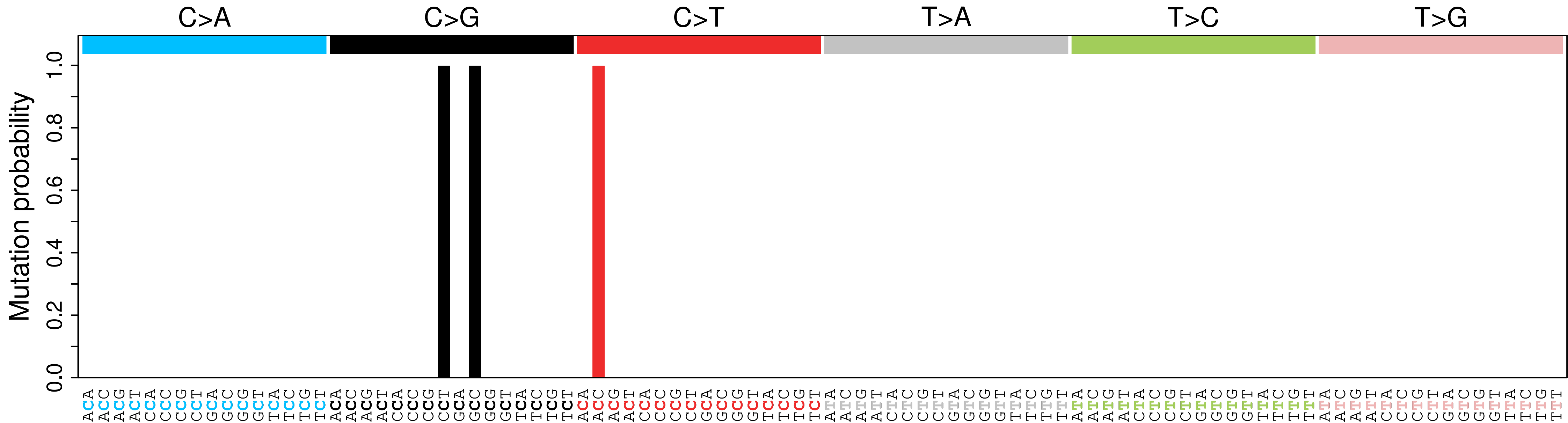
CATD0512a



Reconstructed spectrum (cosine similarity = 0.121)



CATD200a



Reconstructed spectrum (cosine similarity = 0.2)

