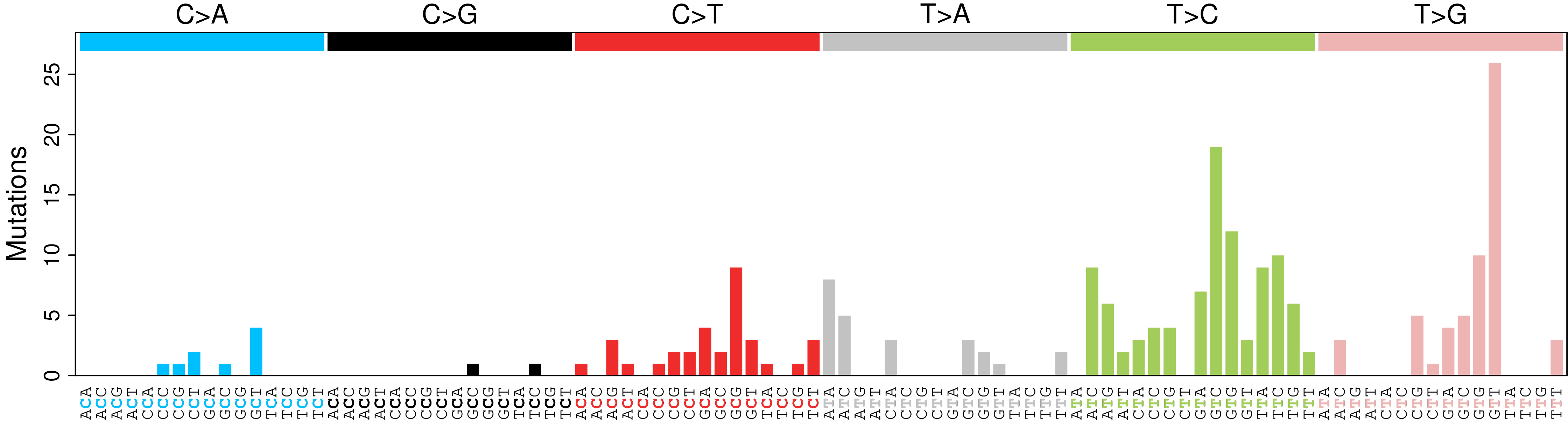
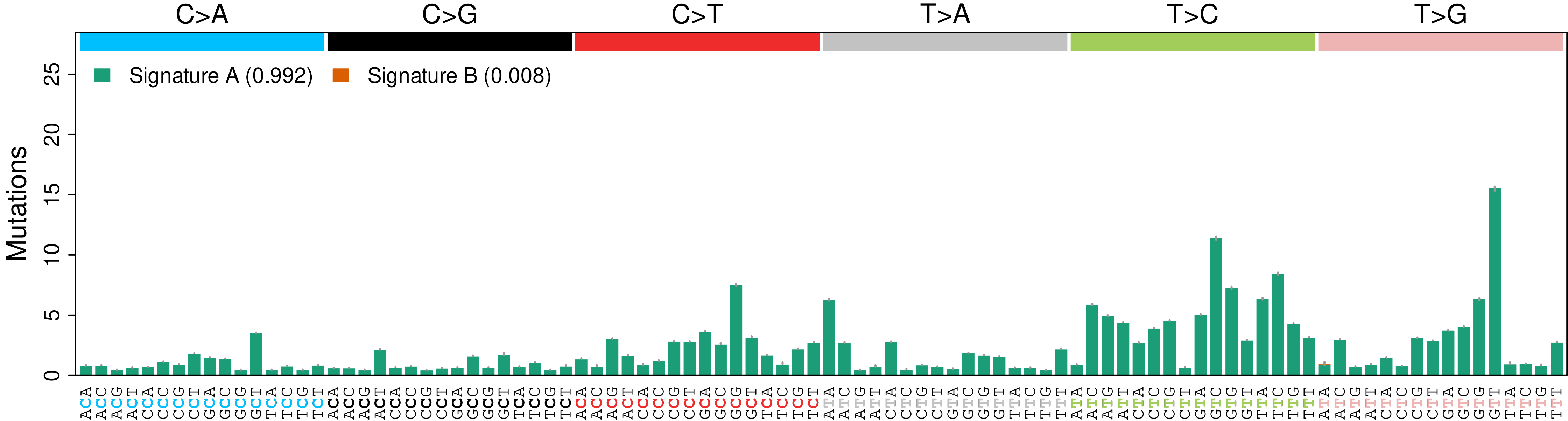


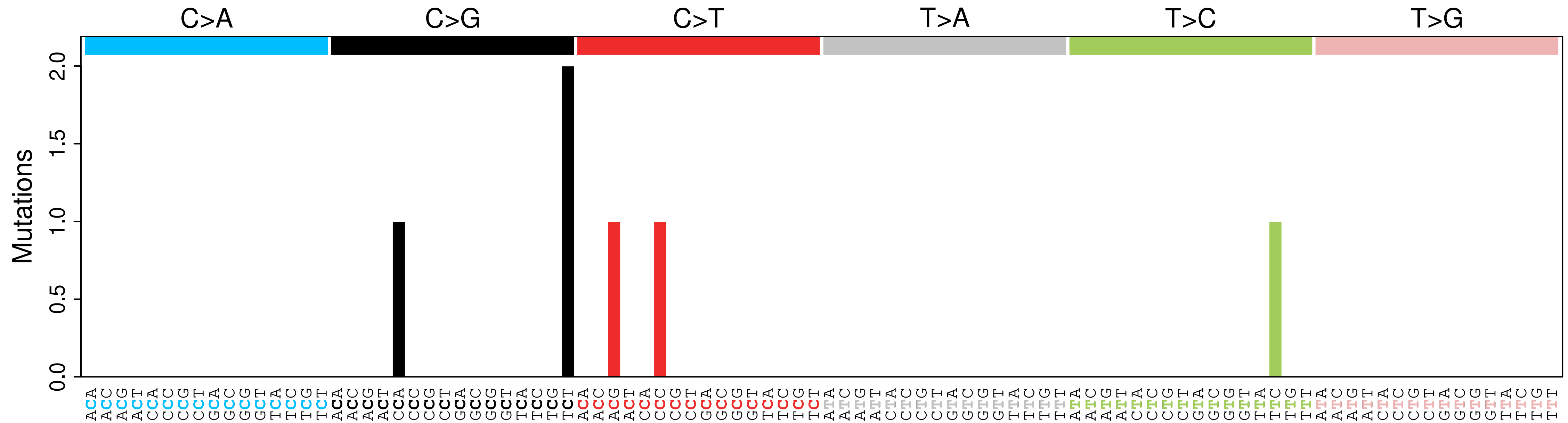
CATD0735a (221 mutations)



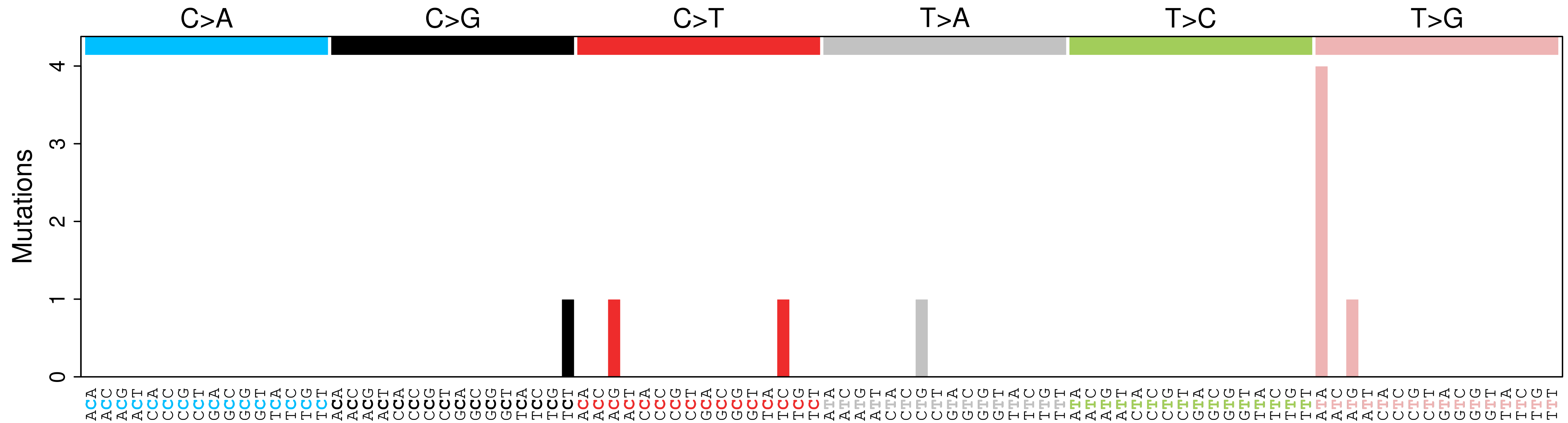
Reconstructed spectrum (cosine similarity = 0.955)



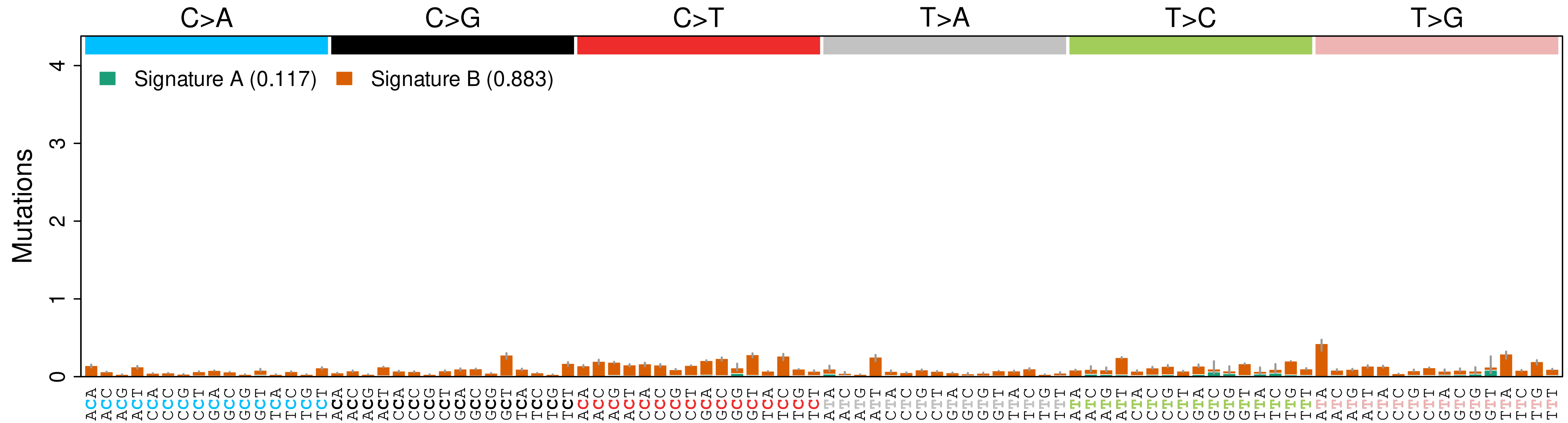
### CATD0575a (6 mutations)



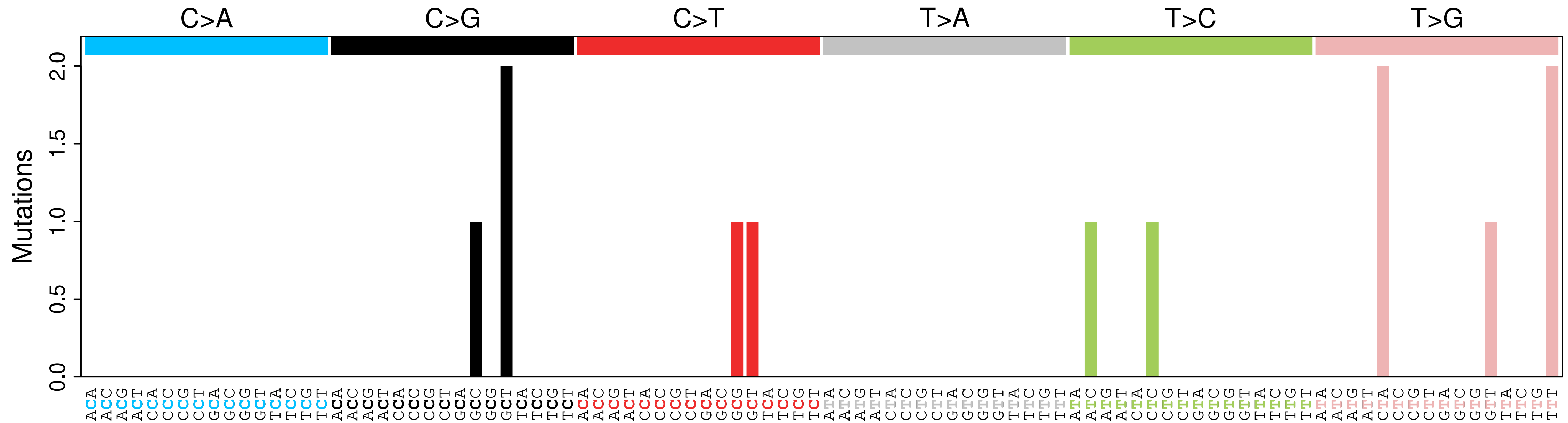
### CATD0584a (9 mutations)



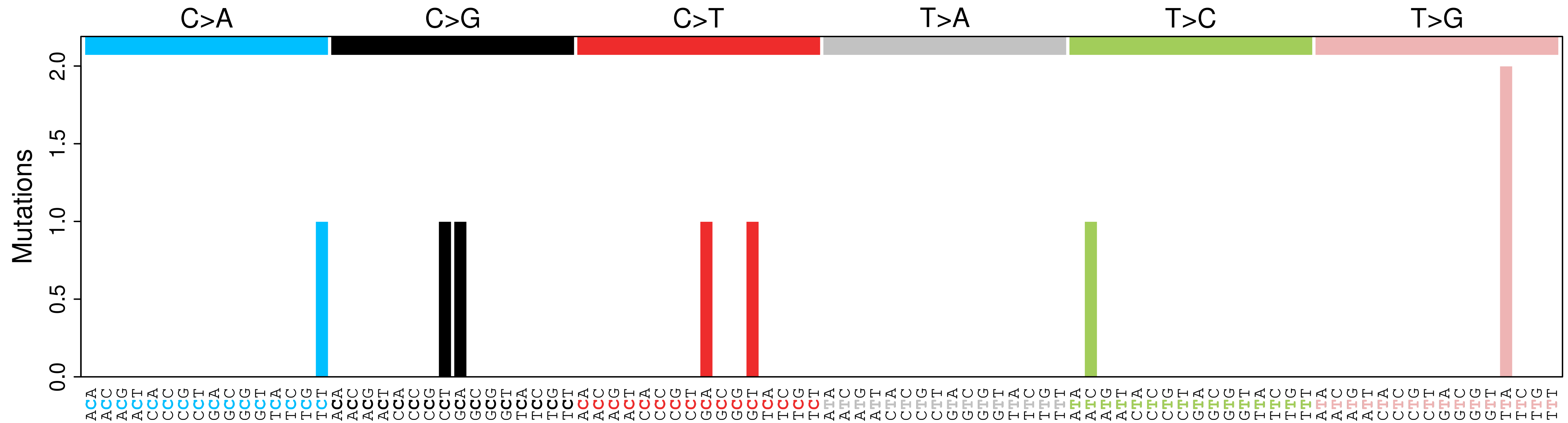
### Reconstructed spectrum (cosine similarity = 0.441)



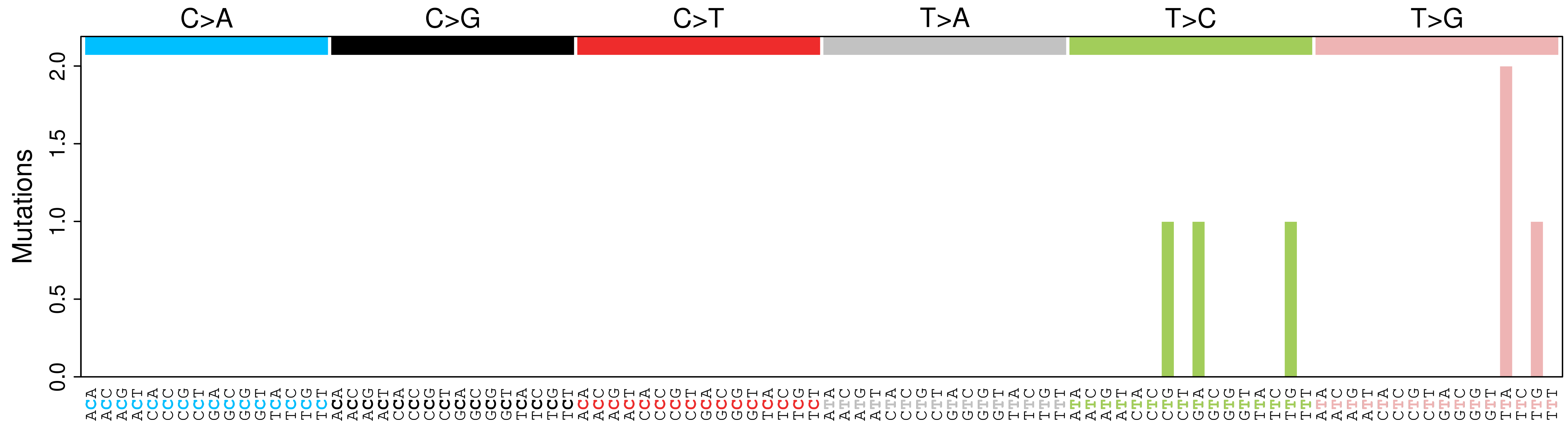
## CATD0600a (12 mutations)



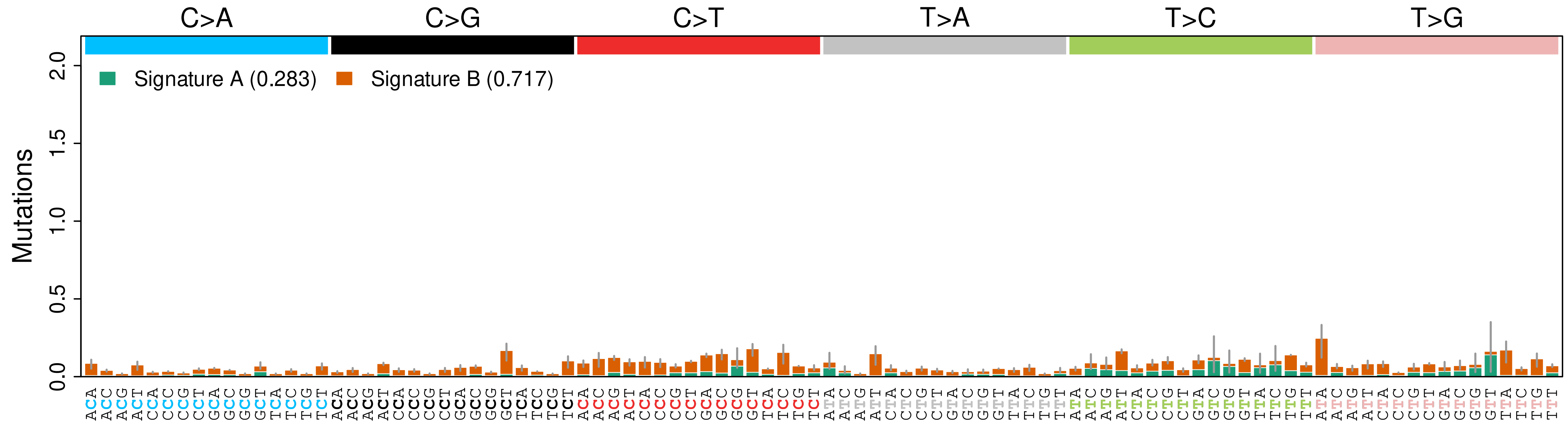
### CATD0576a (8 mutations)



### CATD0679a (6 mutations)



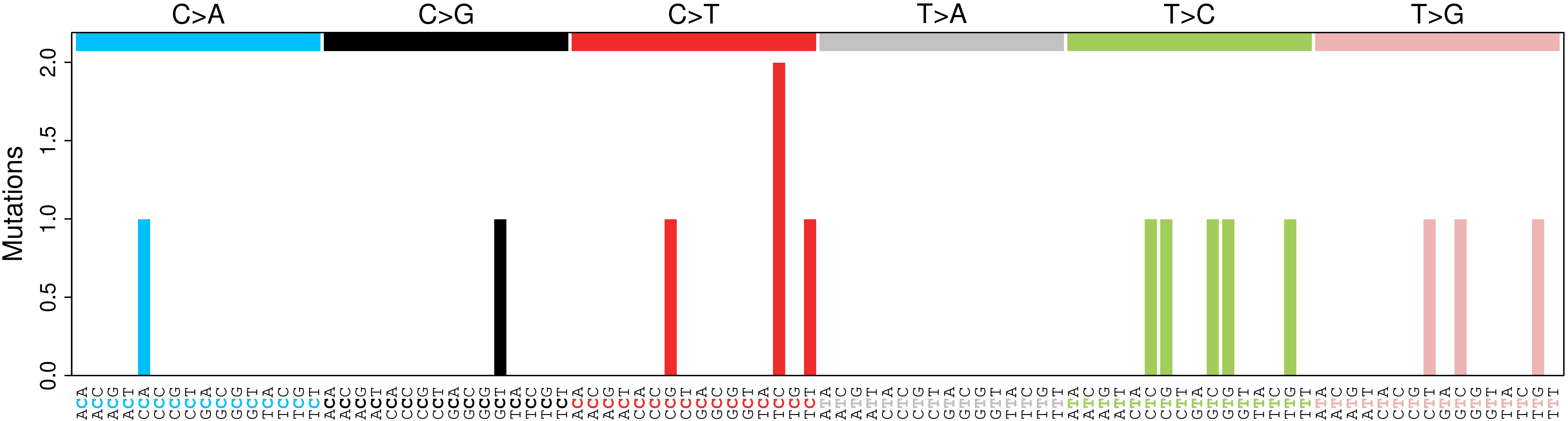
### Reconstructed spectrum (cosine similarity = 0.341)



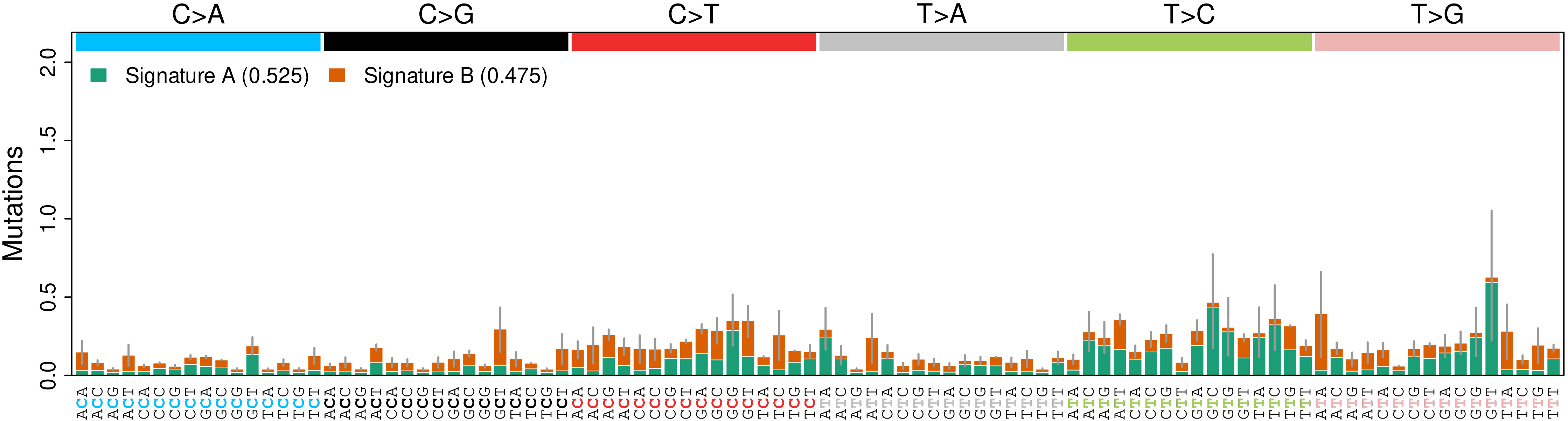




CATD0686a (14 mutations)

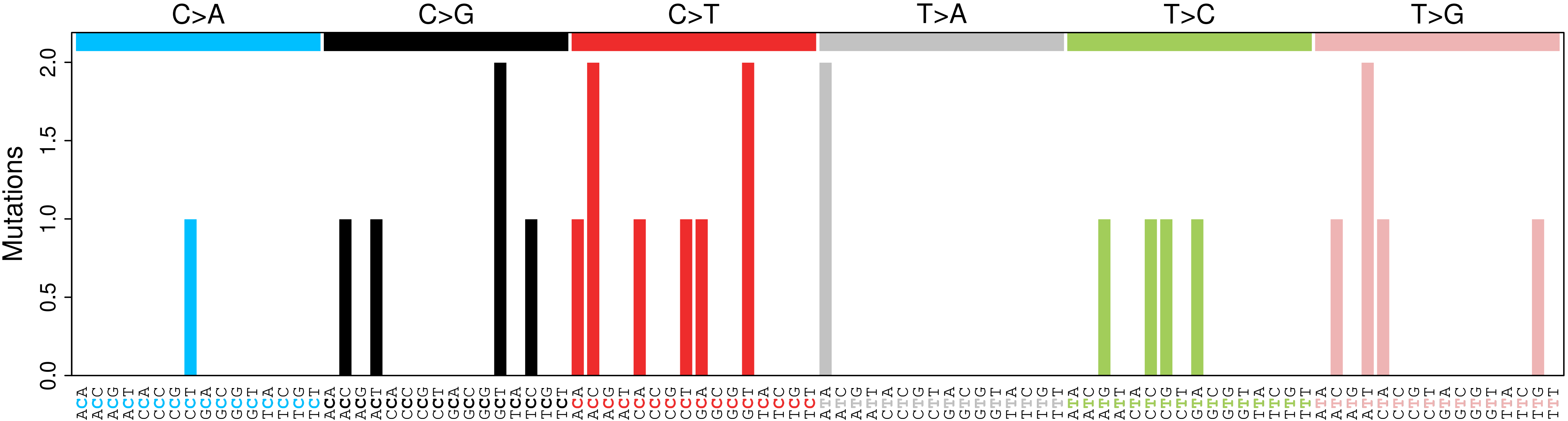


Reconstructed spectrum (cosine similarity = 0.436)

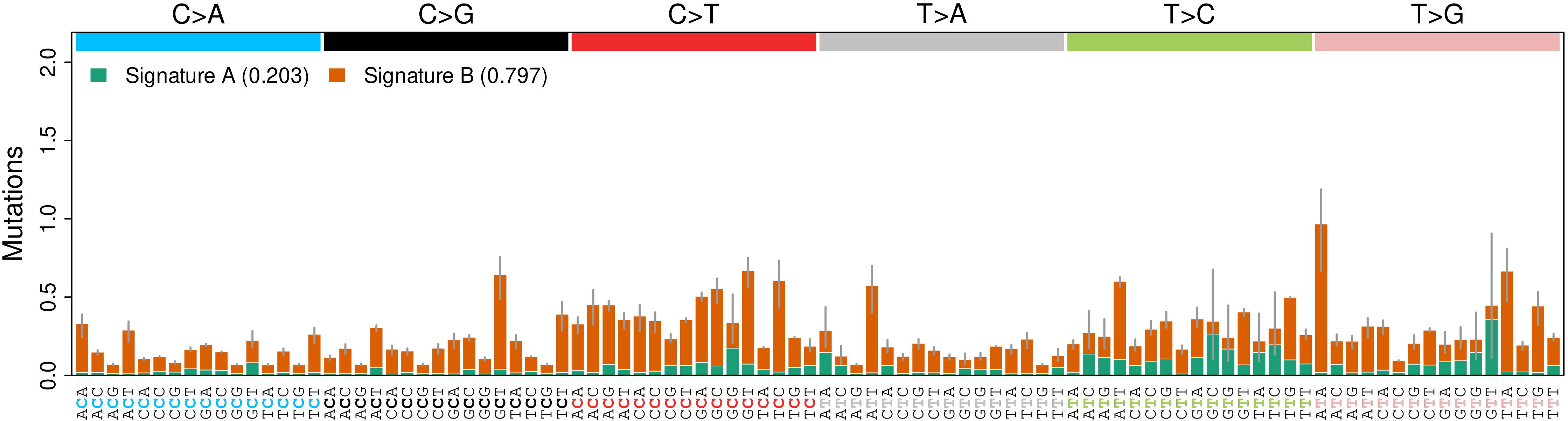




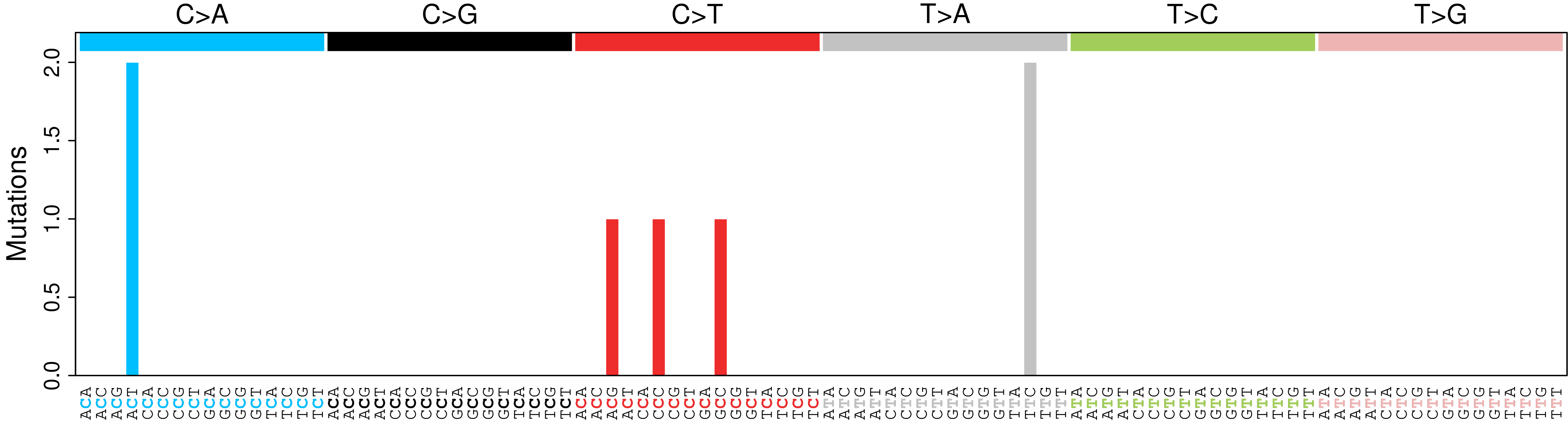
CATD0734a (25 mutations)



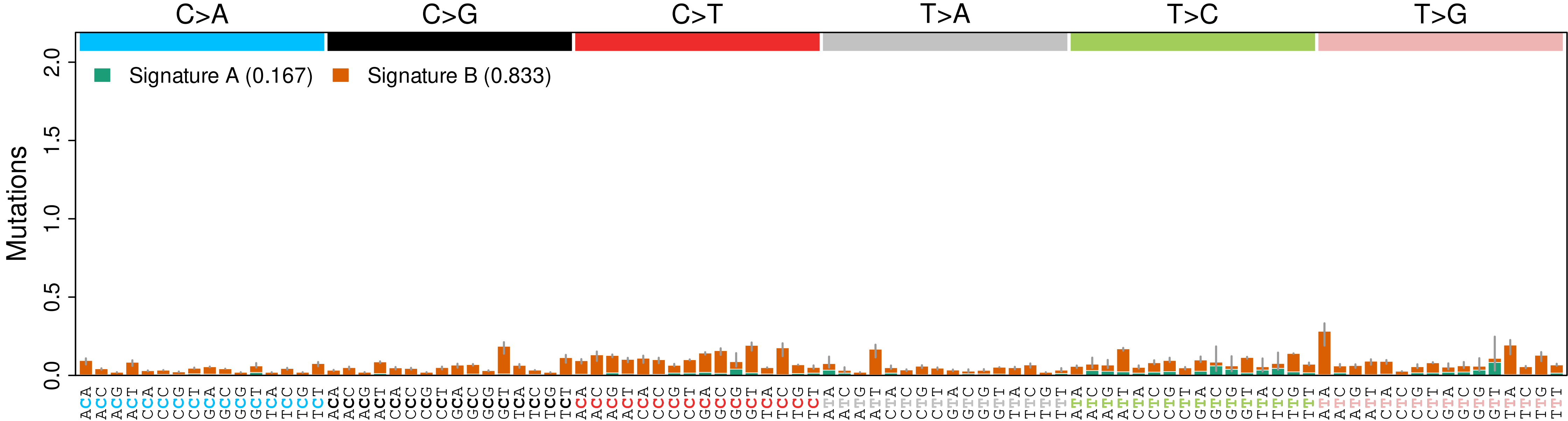
Reconstructed spectrum (cosine similarity = 0.521)



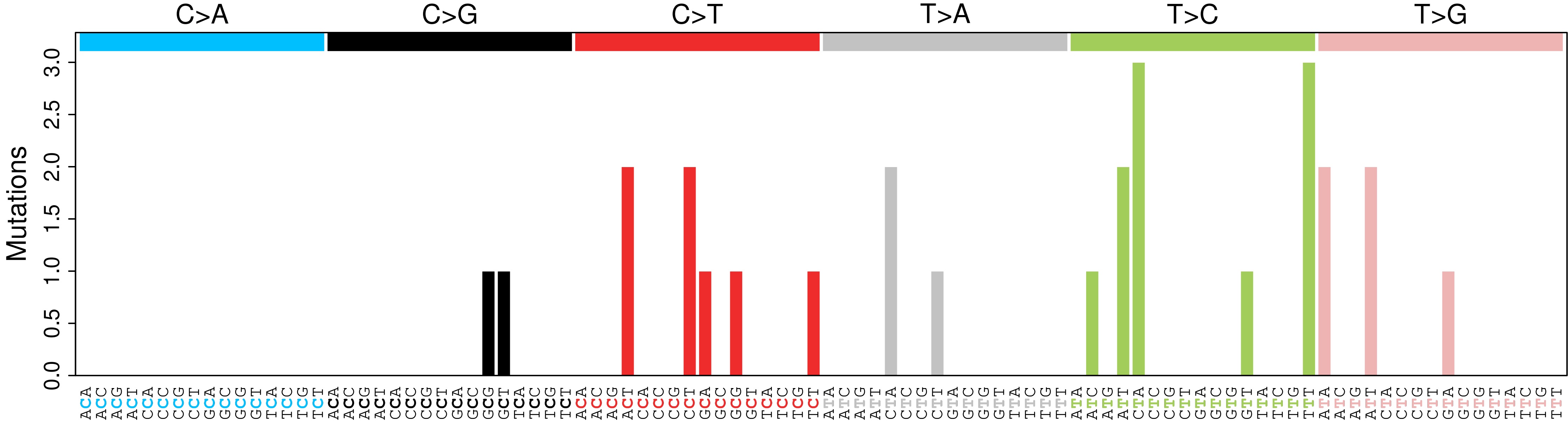
CATD0678a (7 mutations)



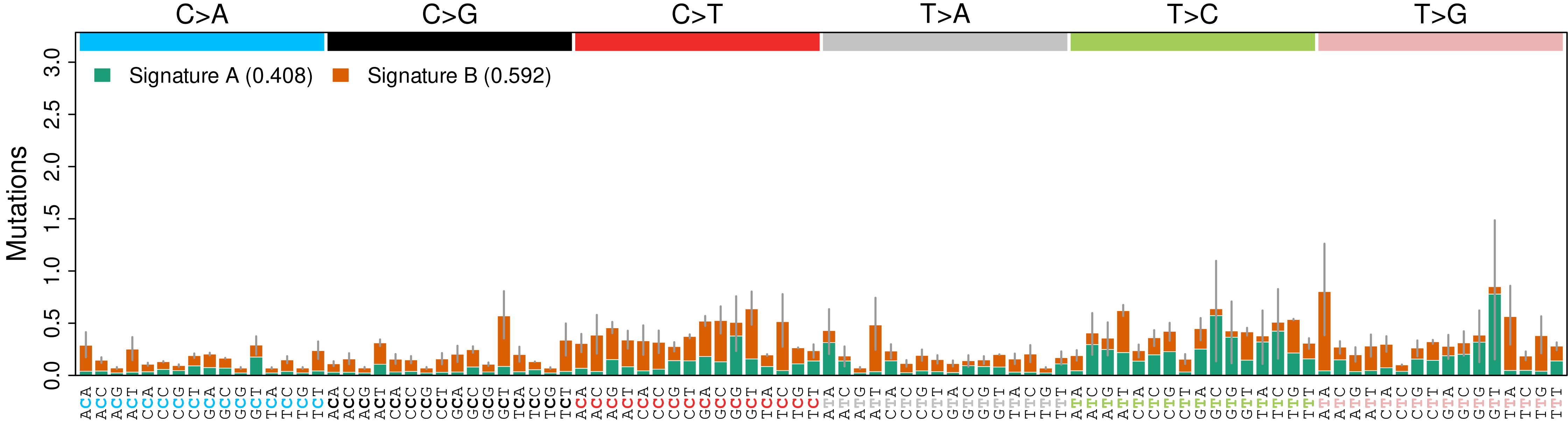
Reconstructed spectrum (cosine similarity = 0.243)



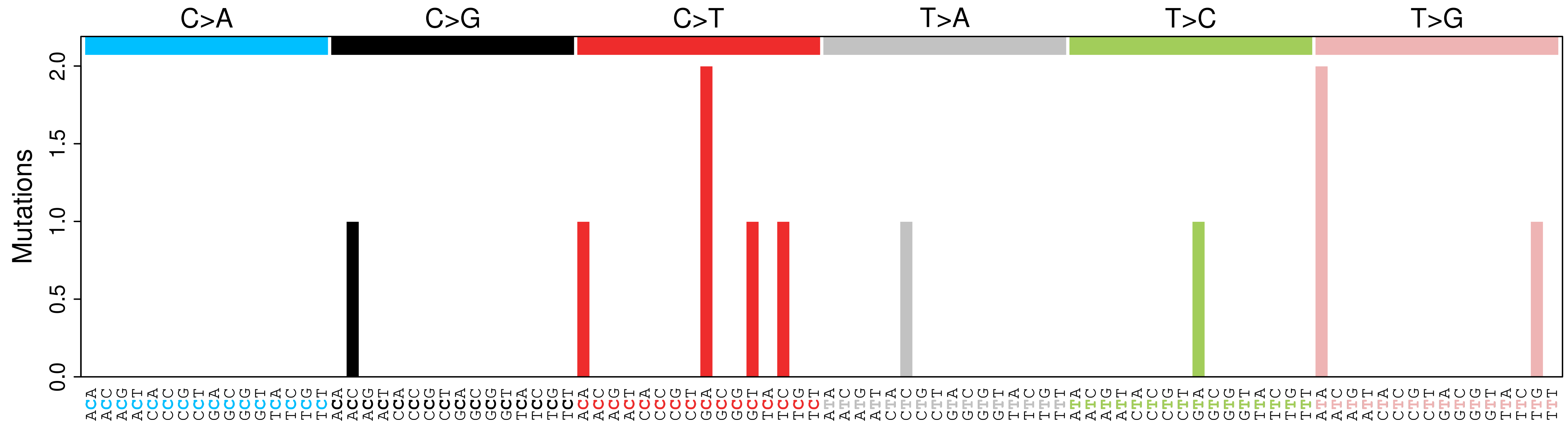
CATD0729a (27 mutations)



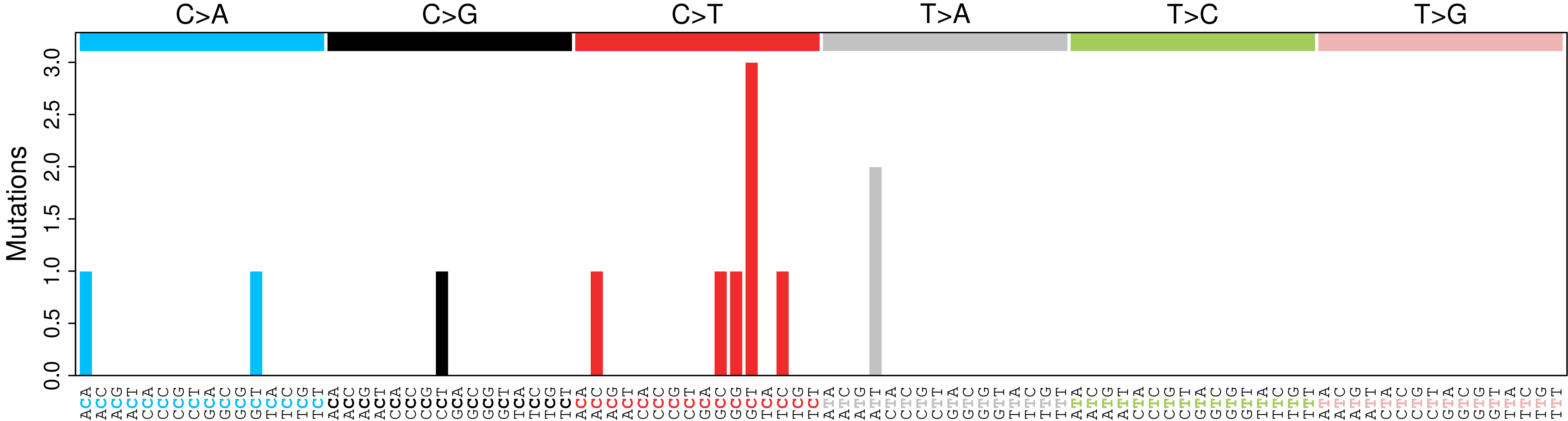
Reconstructed spectrum (cosine similarity = 0.442)



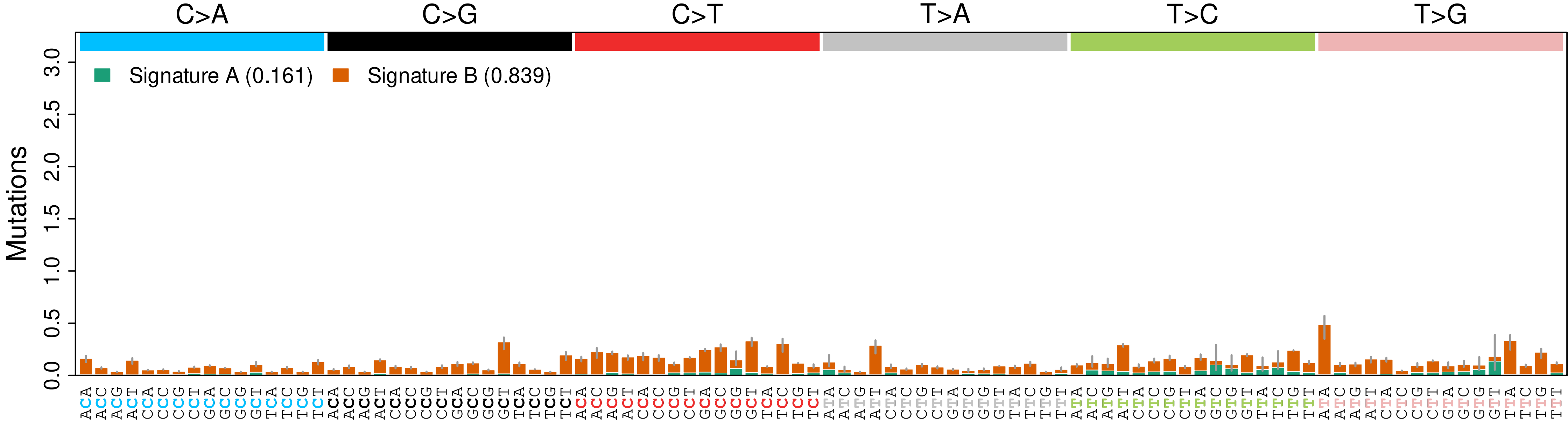
### CATD0609a (11 mutations)



CATD0601a (12 mutations)

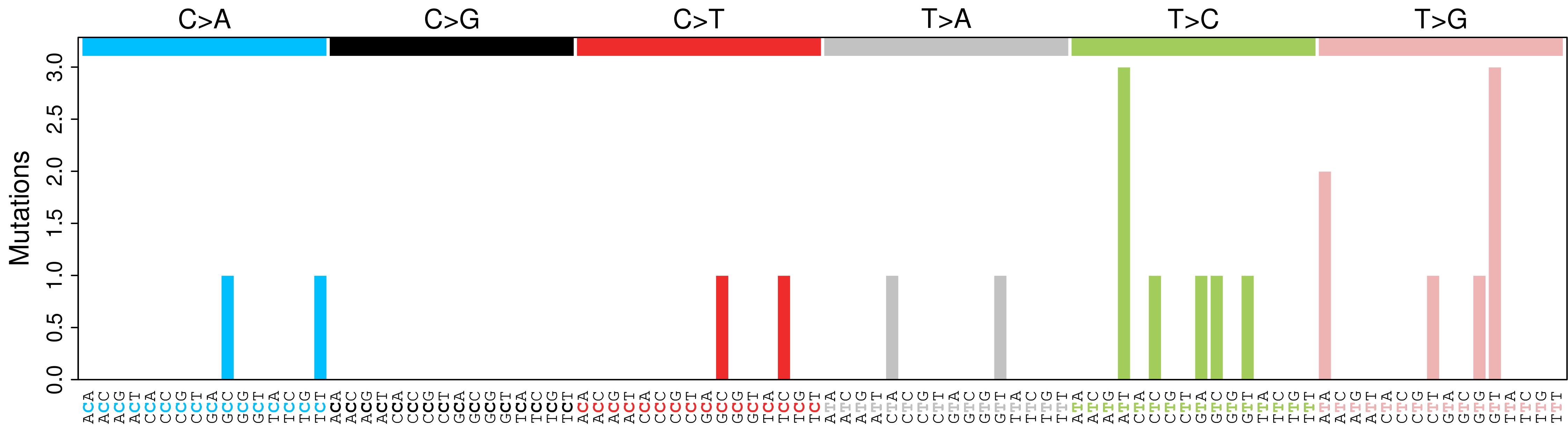


Reconstructed spectrum (cosine similarity = 0.439)

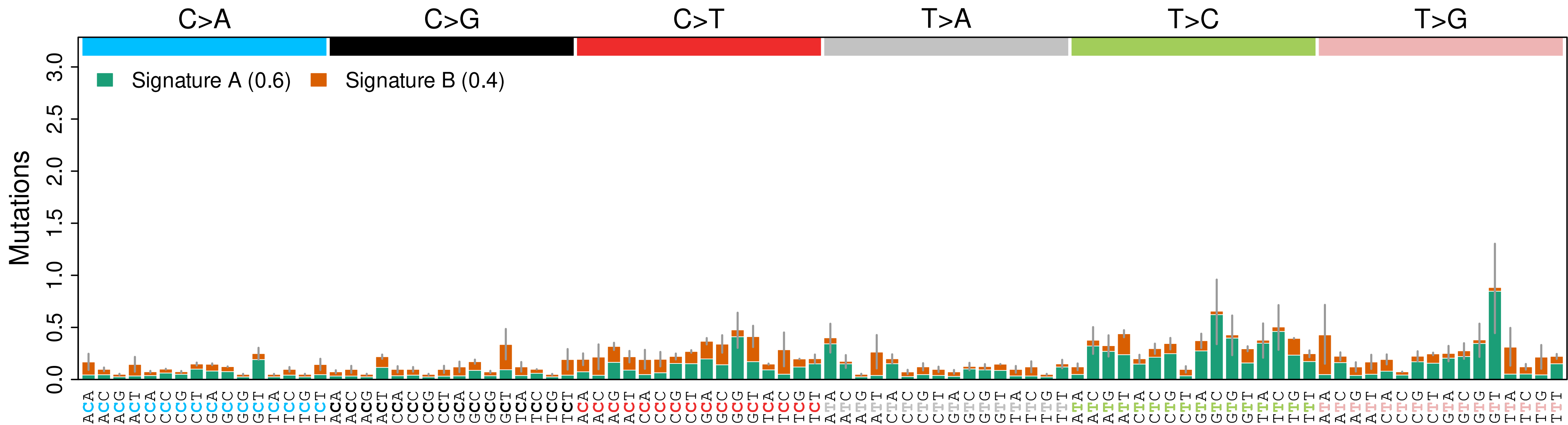




CATD0723a (20 mutations)

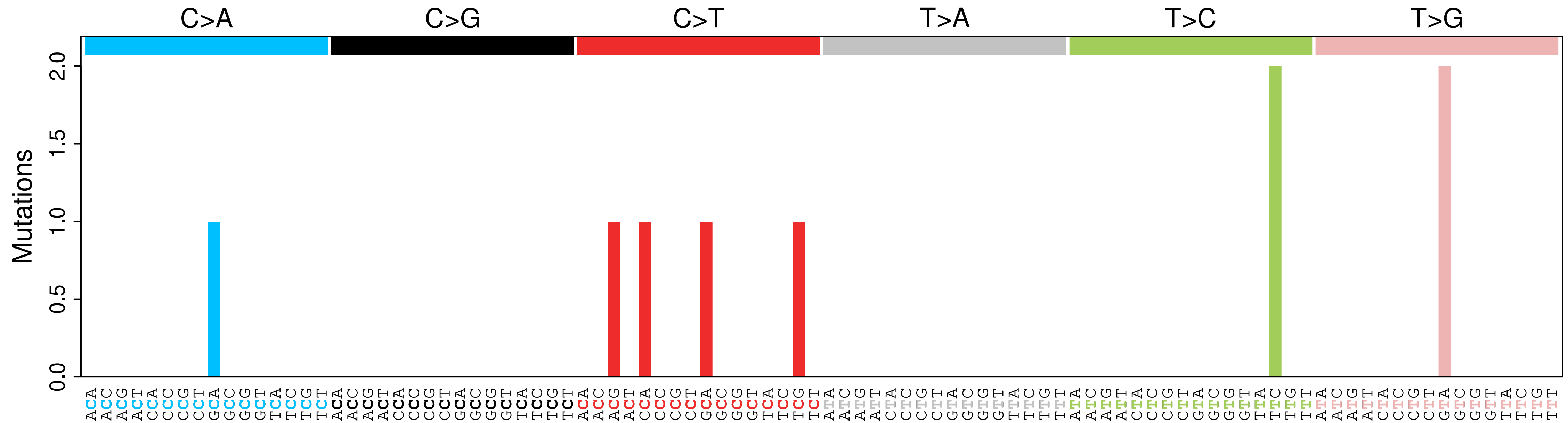


Reconstructed spectrum (cosine similarity = 0.576)

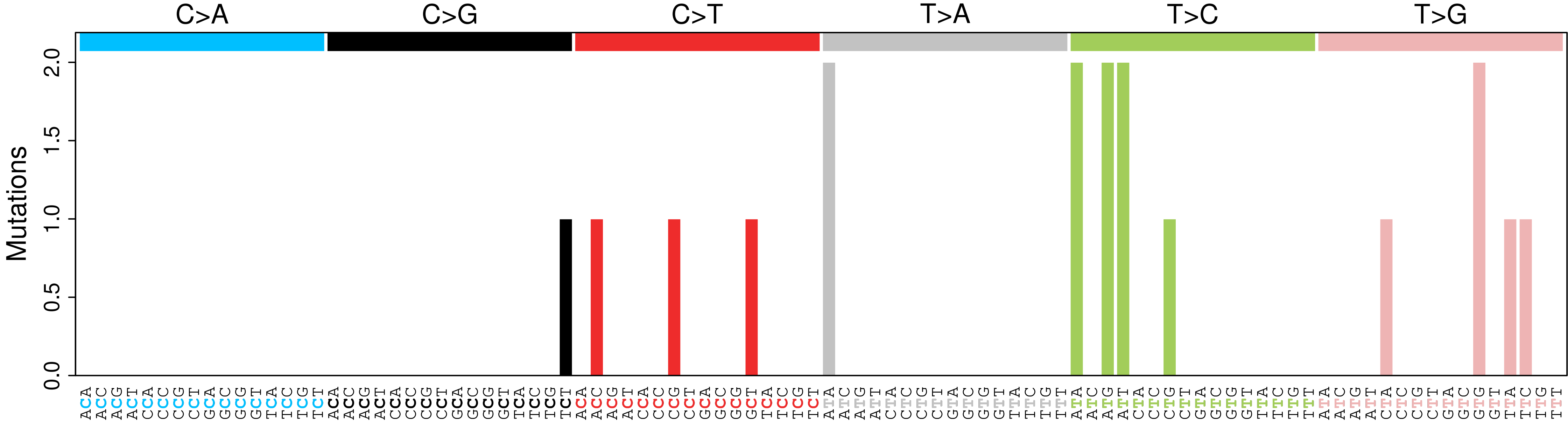




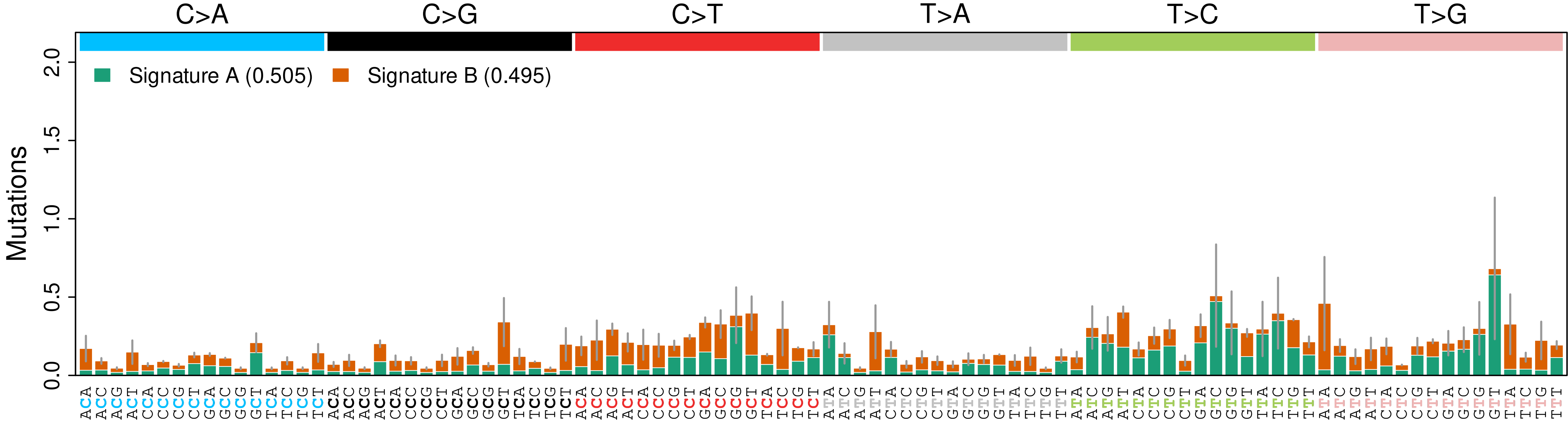
### CATD0730a (9 mutations)



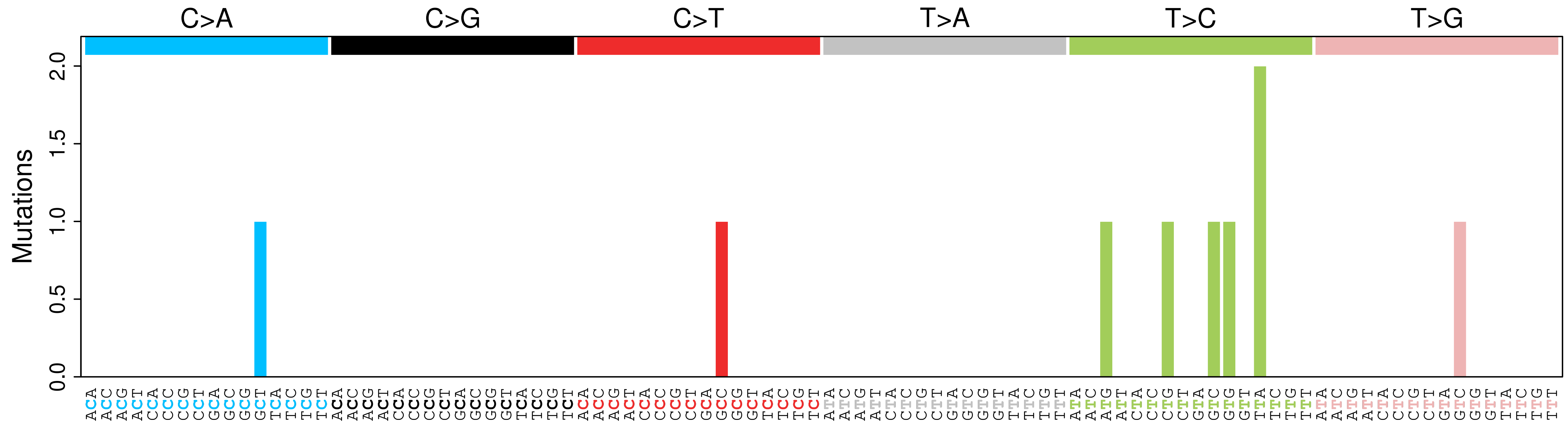
CATD0586a (18 mutations)



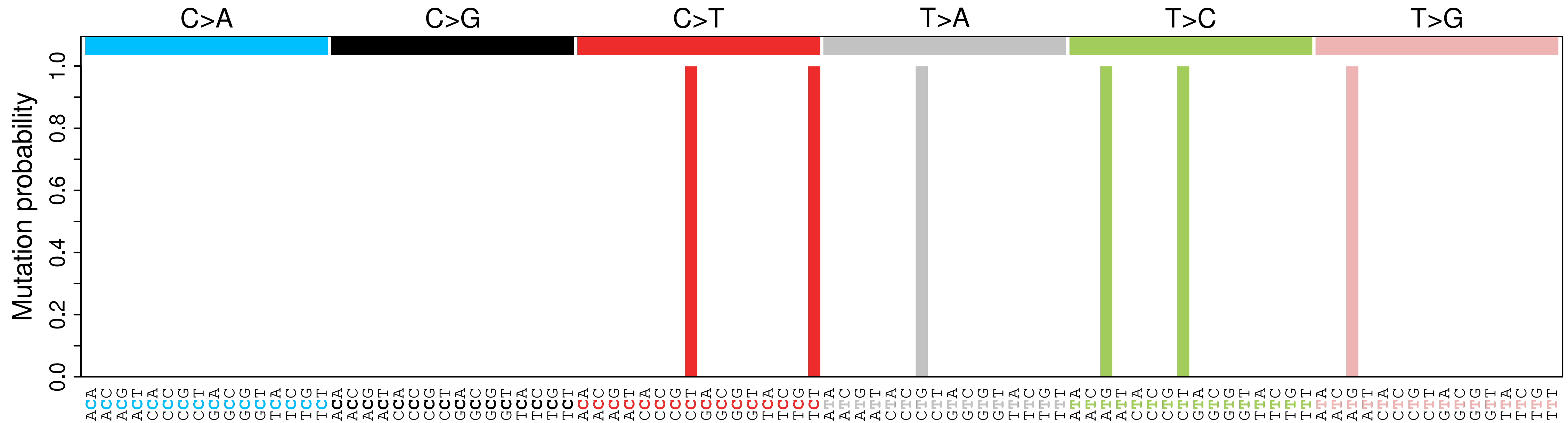
Reconstructed spectrum (cosine similarity = 0.414)



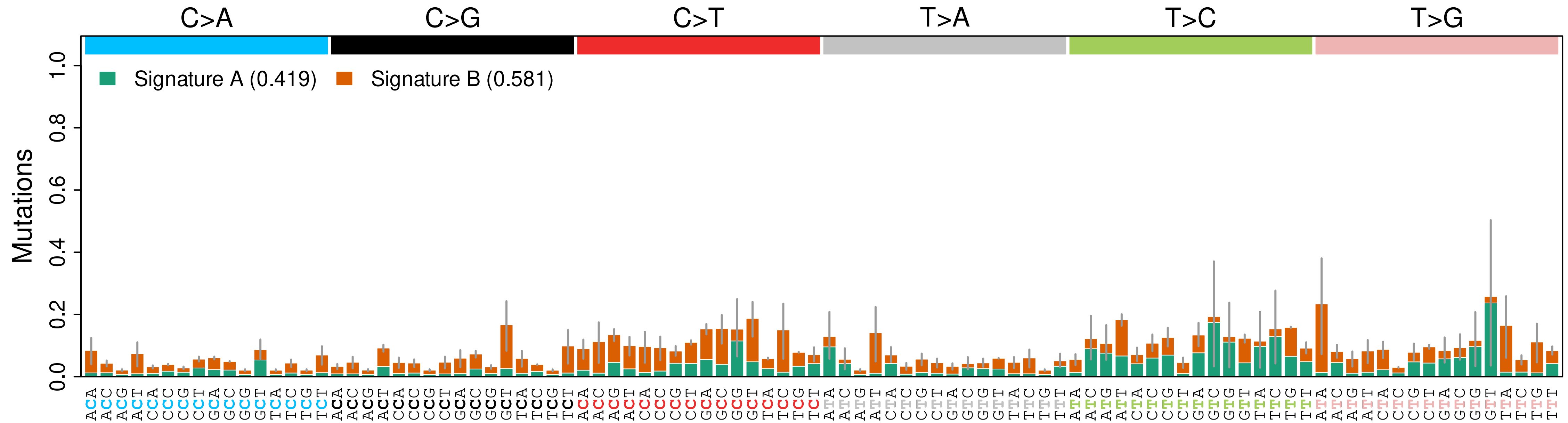
### CATD0733a (9 mutations)



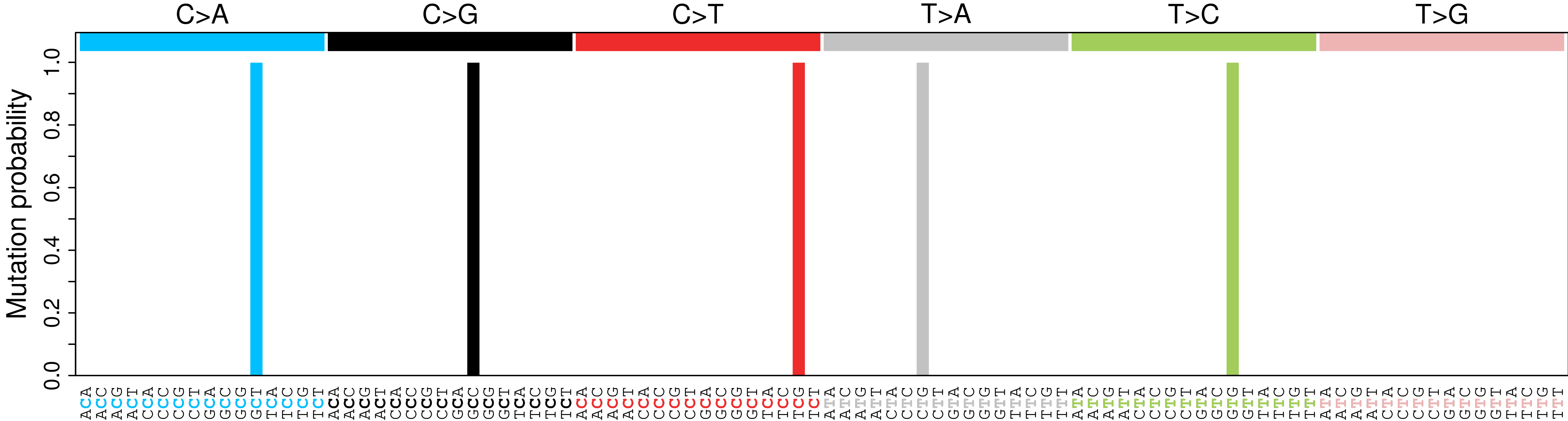
**CATD0687a**



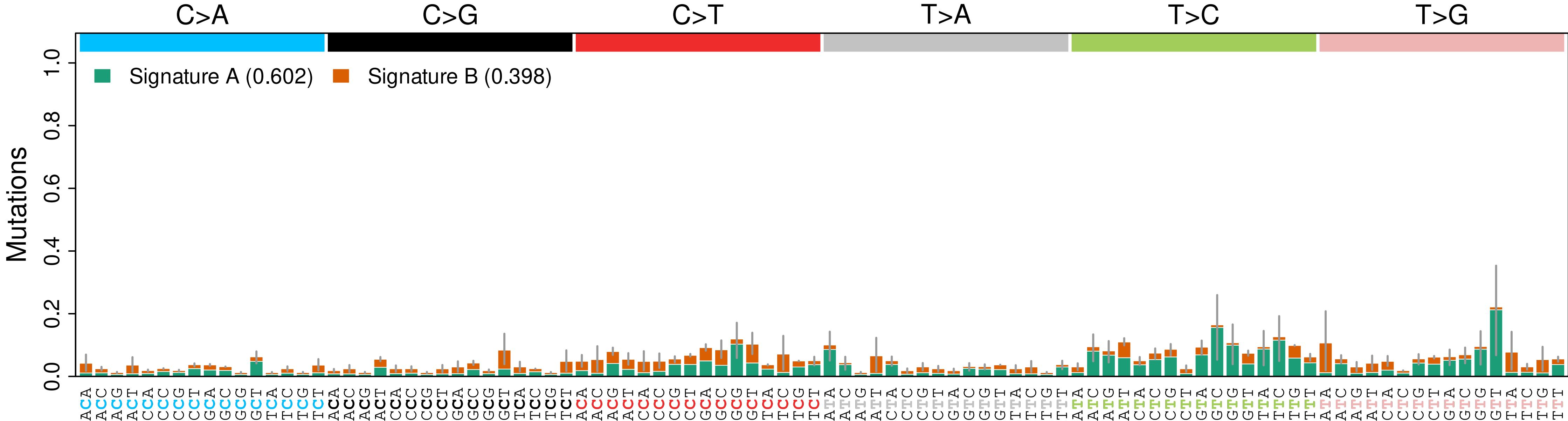
### Reconstructed spectrum (cosine similarity = 0.192)



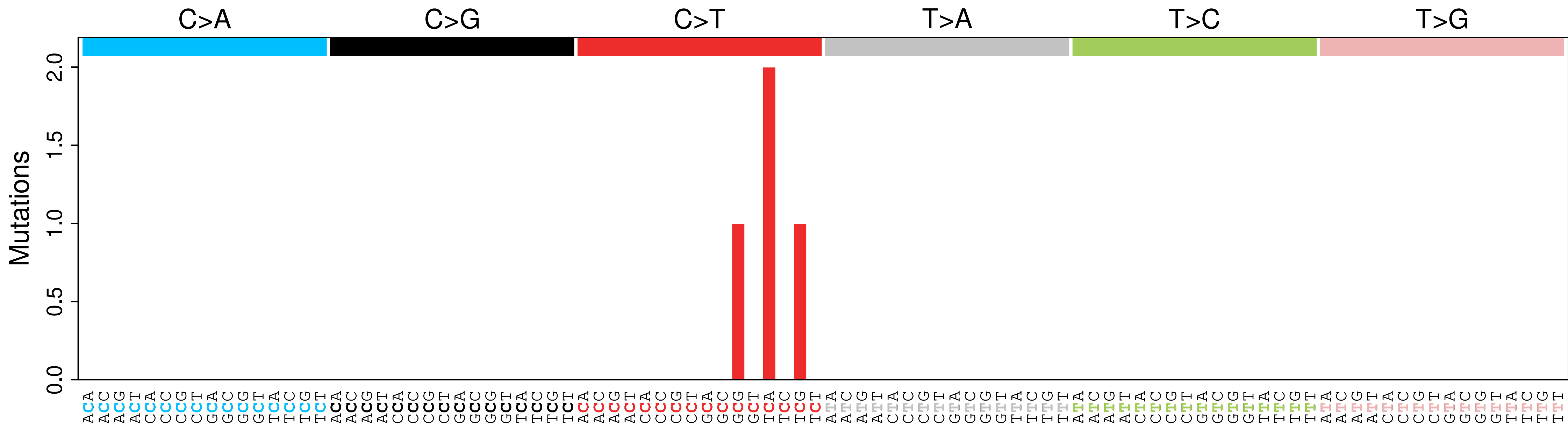
CATD0578a



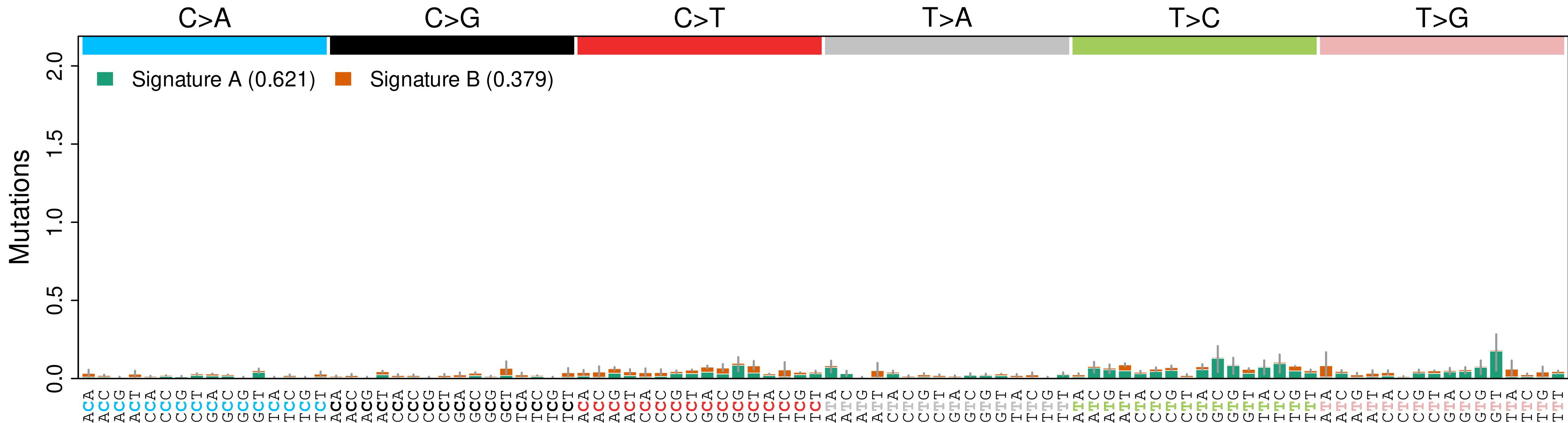
Reconstructed spectrum (cosine similarity = 0.211)



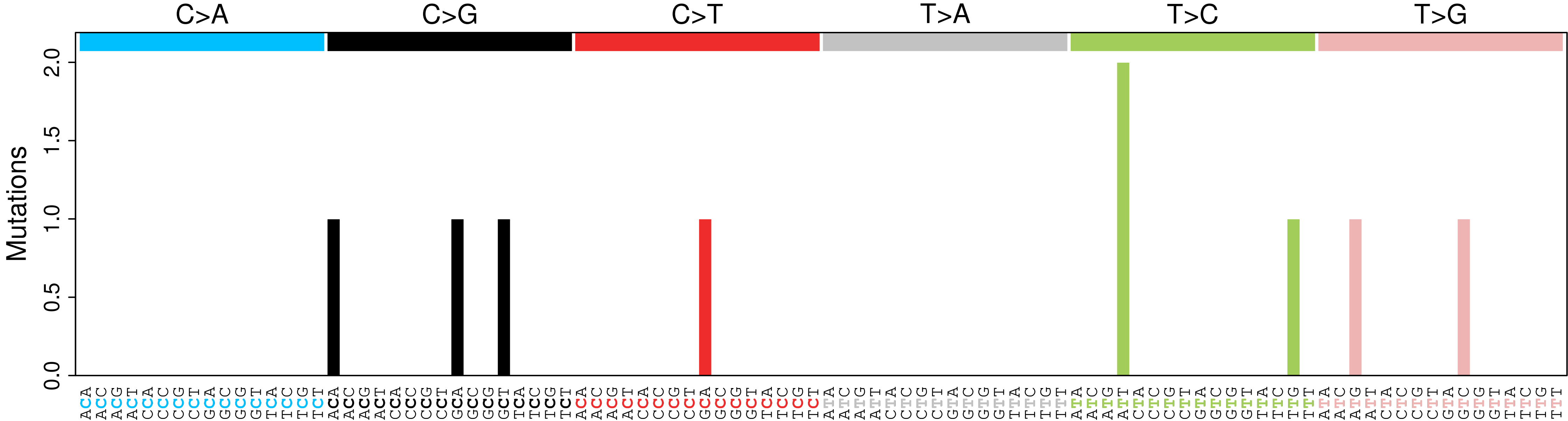
CATD0587a (4 mutations)



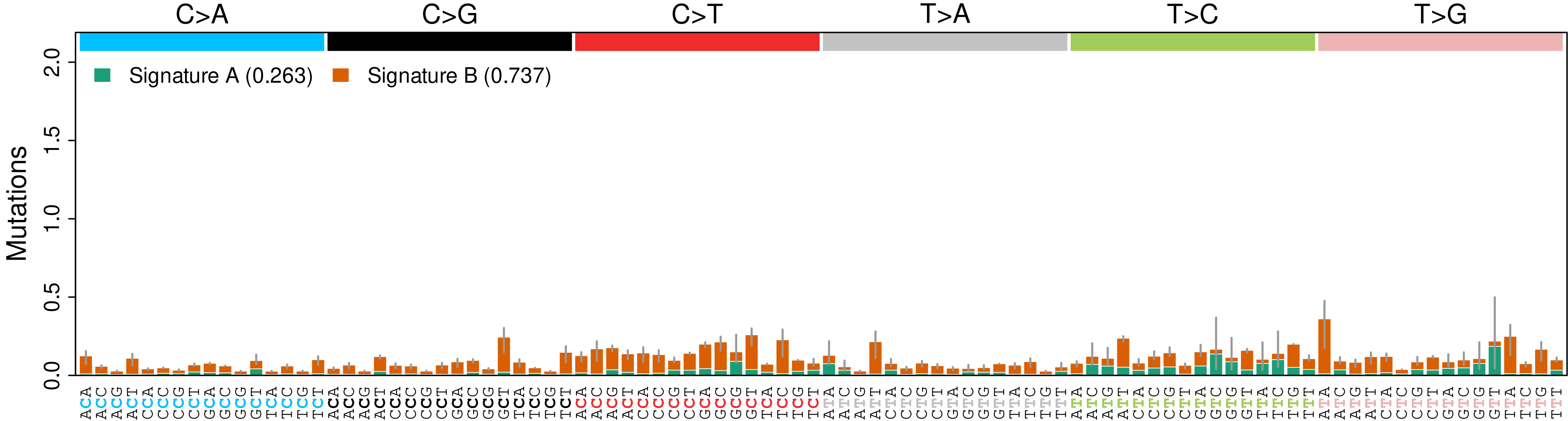
Reconstructed spectrum (cosine similarity = 0.161)



CATD0589a (9 mutations)

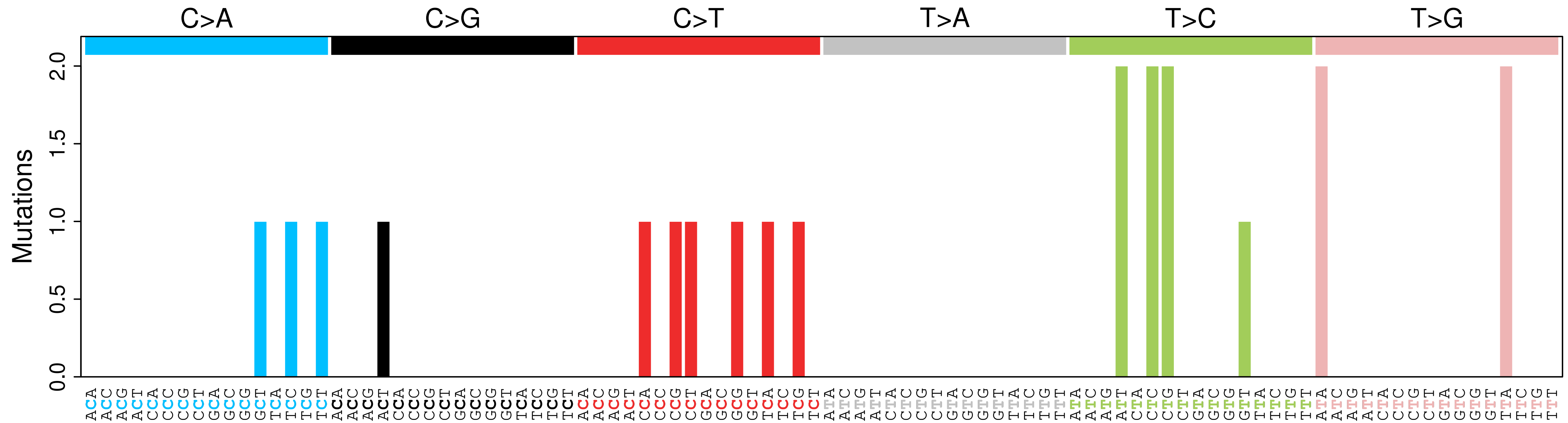


Reconstructed spectrum (cosine similarity = 0.361)



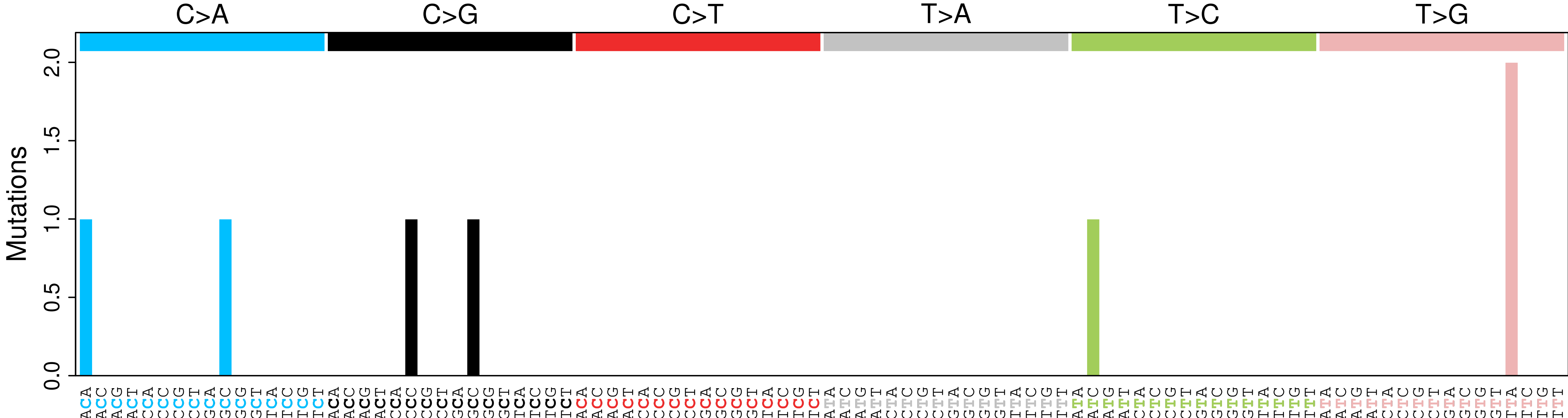


## CATD0590a (21 mutations)

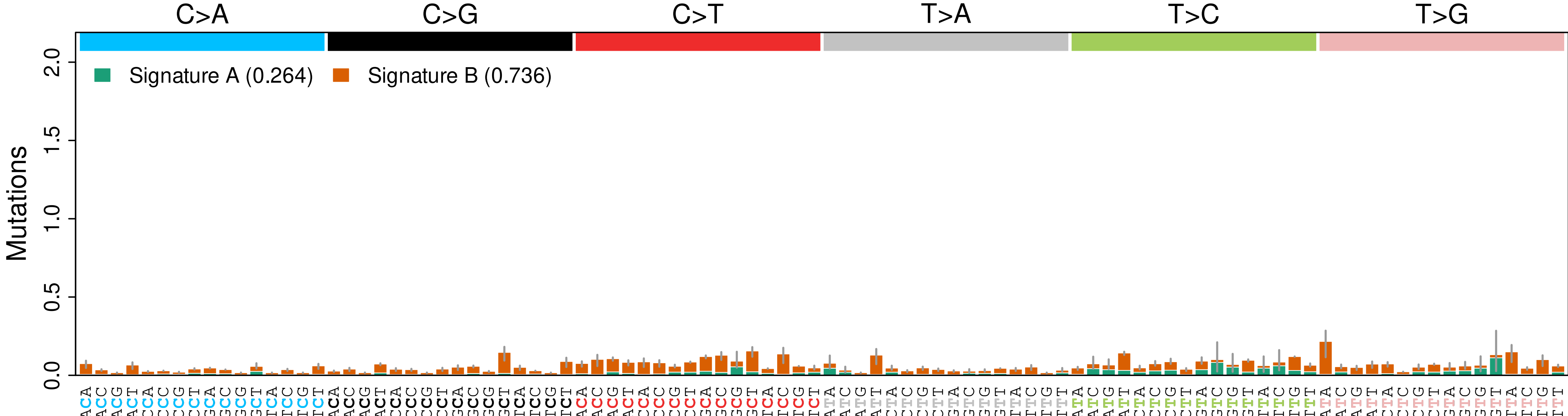




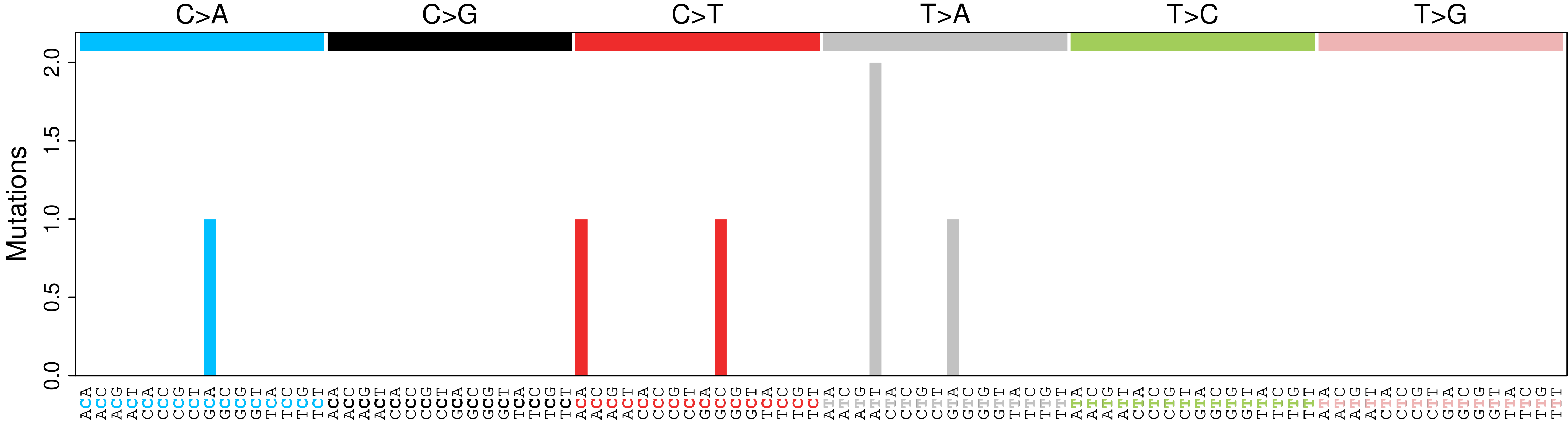
## CATD0583a (7 mutations)



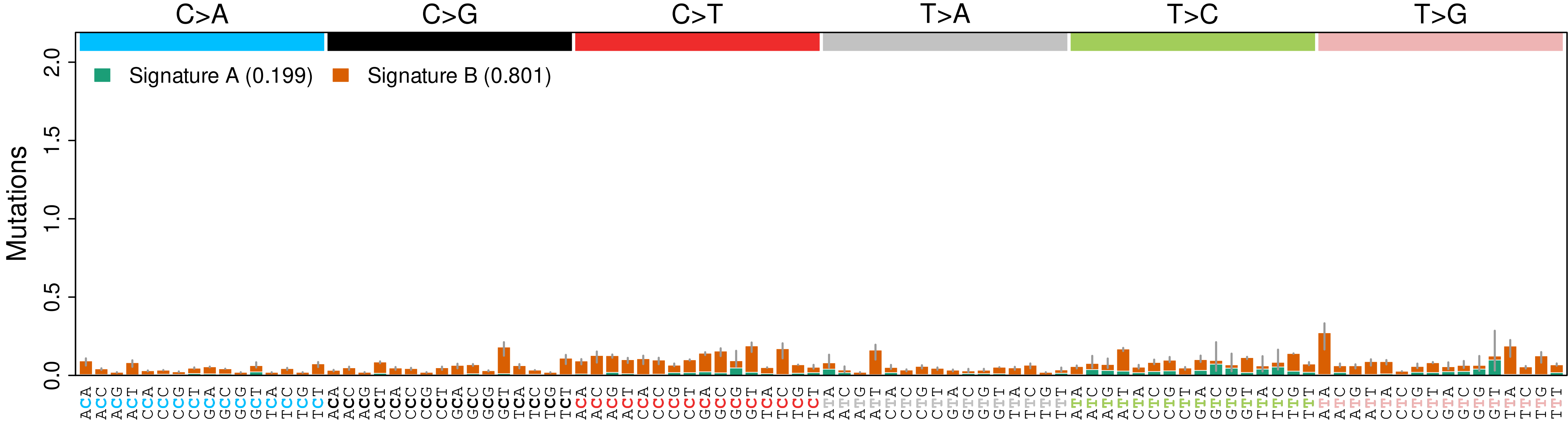
## Reconstructed spectrum (cosine similarity = 0.268)



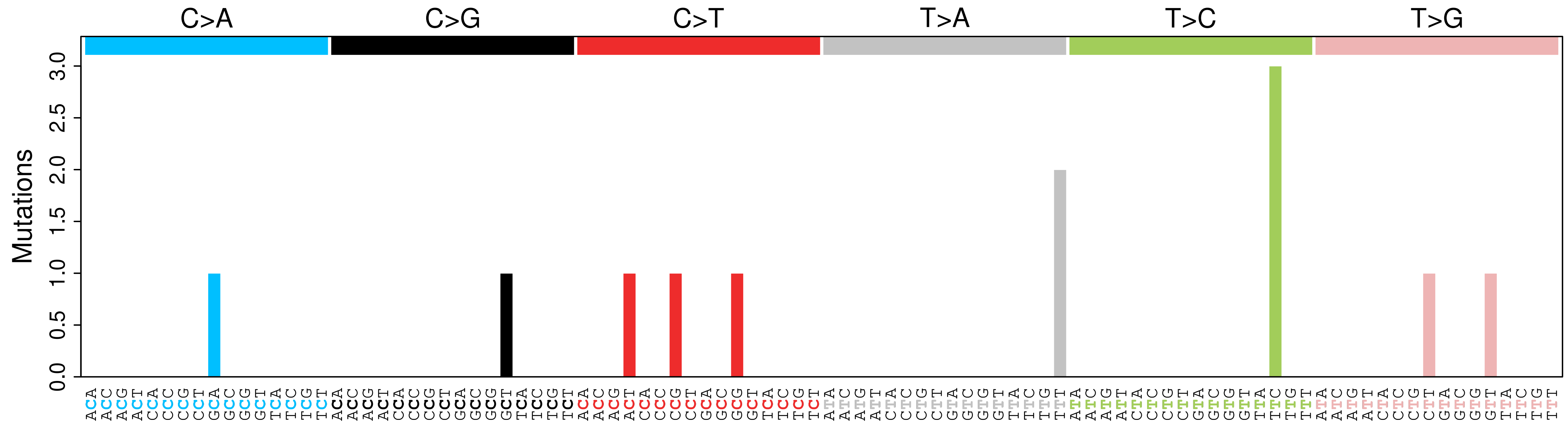
CATD0732a (6 mutations)



Reconstructed spectrum (cosine similarity = 0.276)

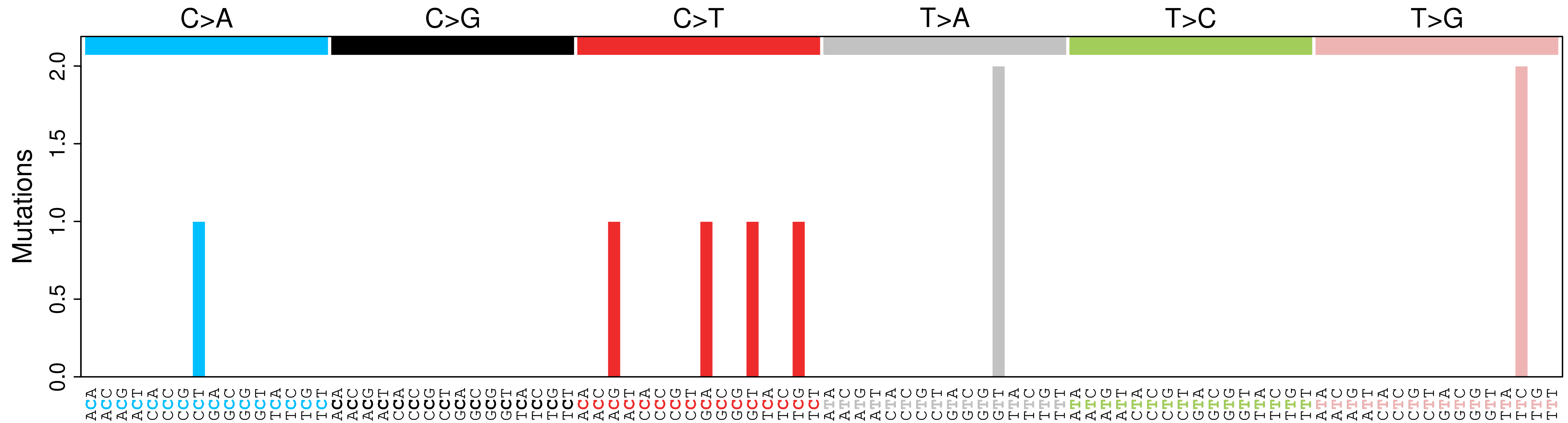


## CATD0725a (12 mutations)



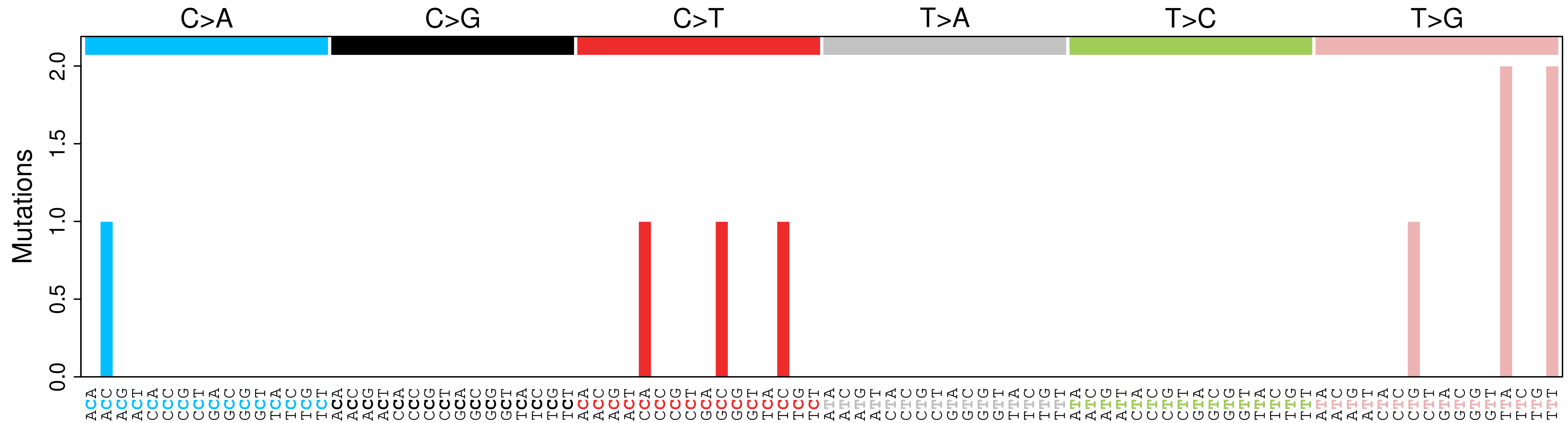


### CATD0606a (9 mutations)

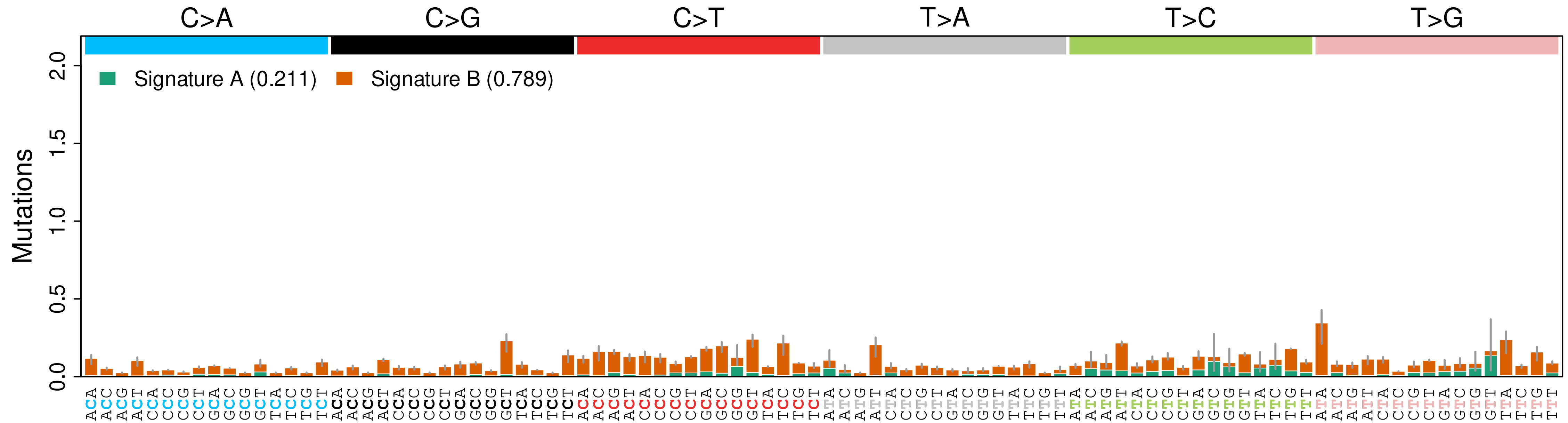




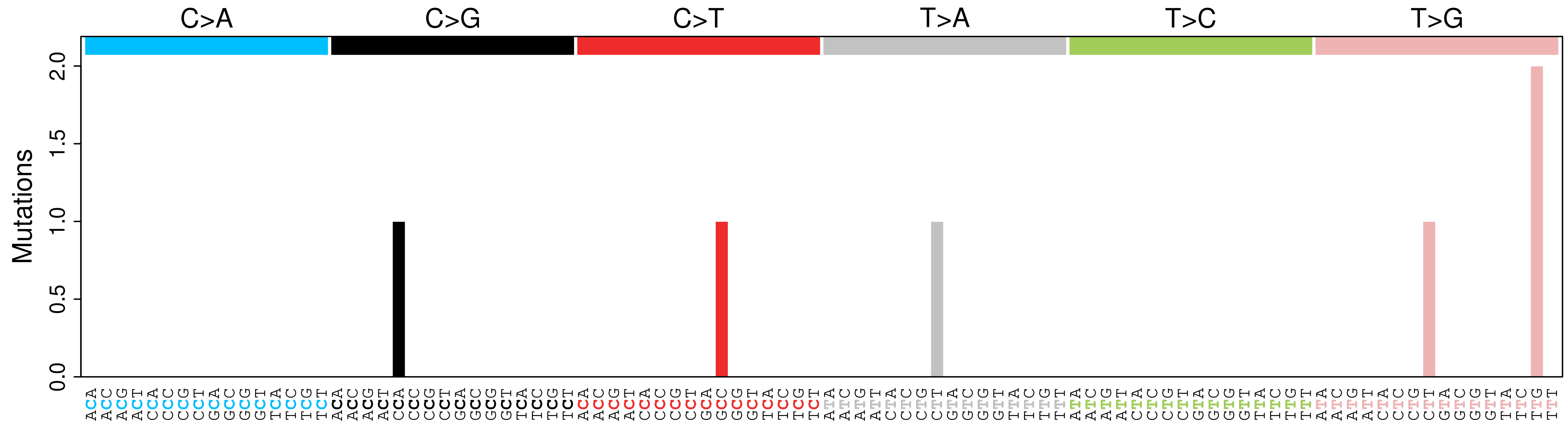
### CATD0588a (9 mutations)



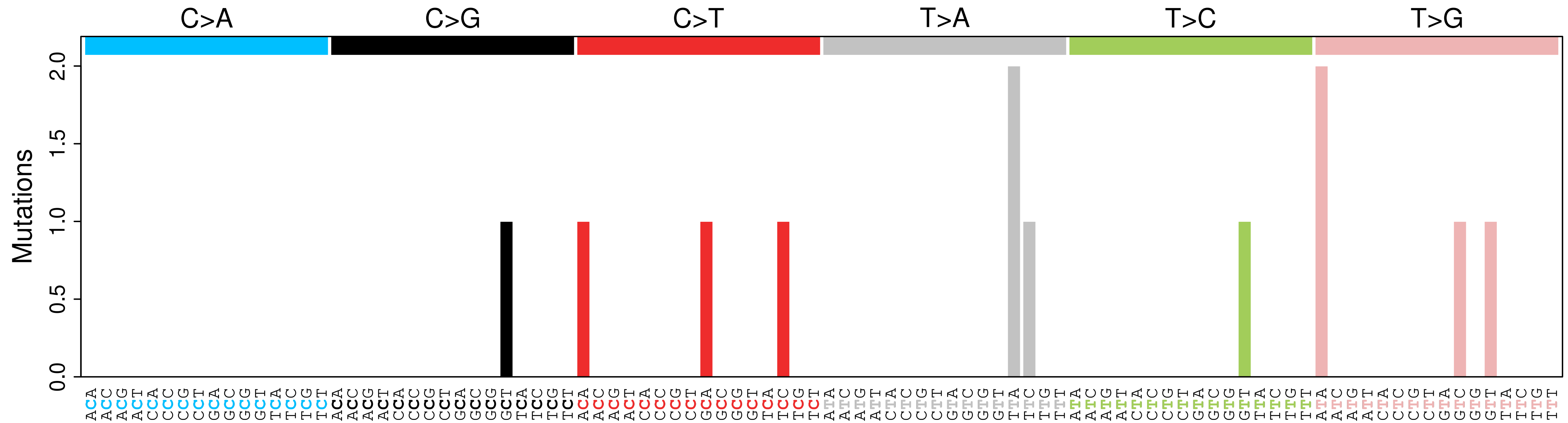
### Reconstructed spectrum (cosine similarity = 0.339)



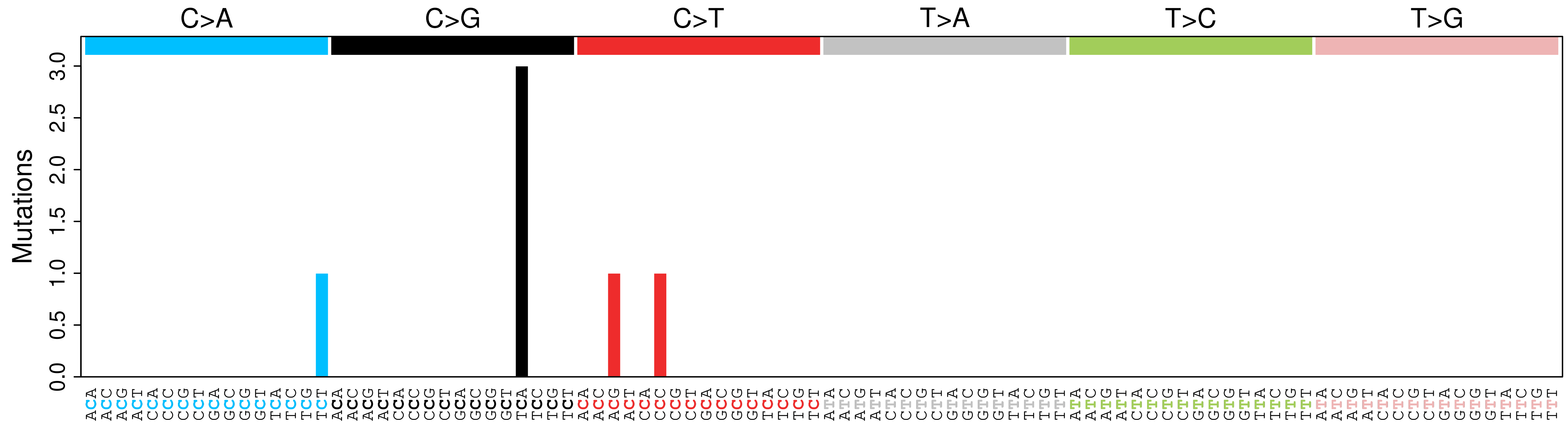
### CATD0572a (6 mutations)



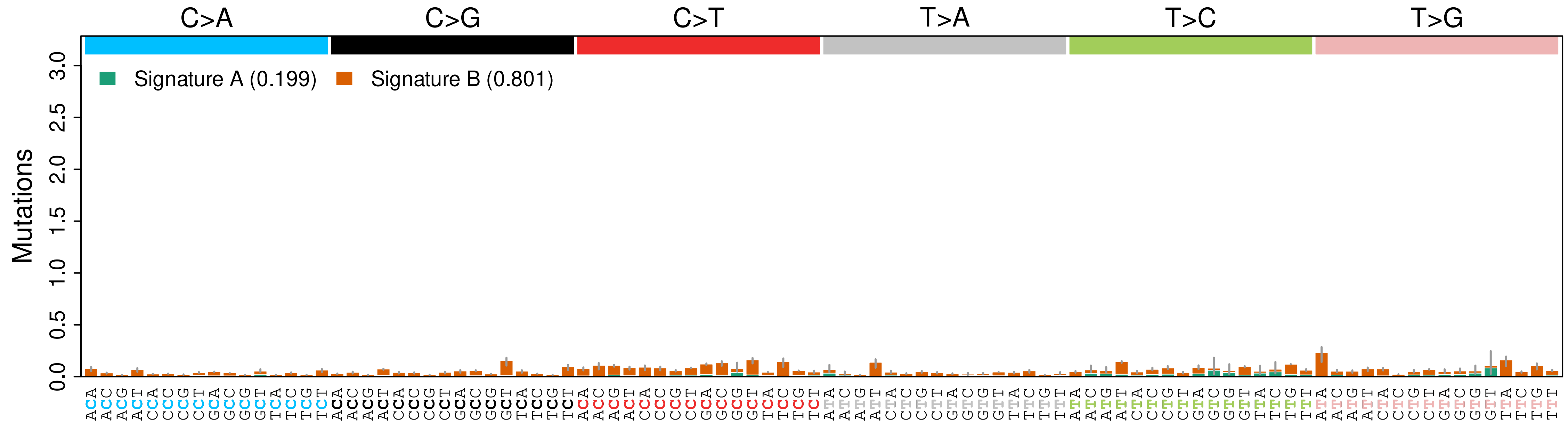
## CATD0573a (12 mutations)



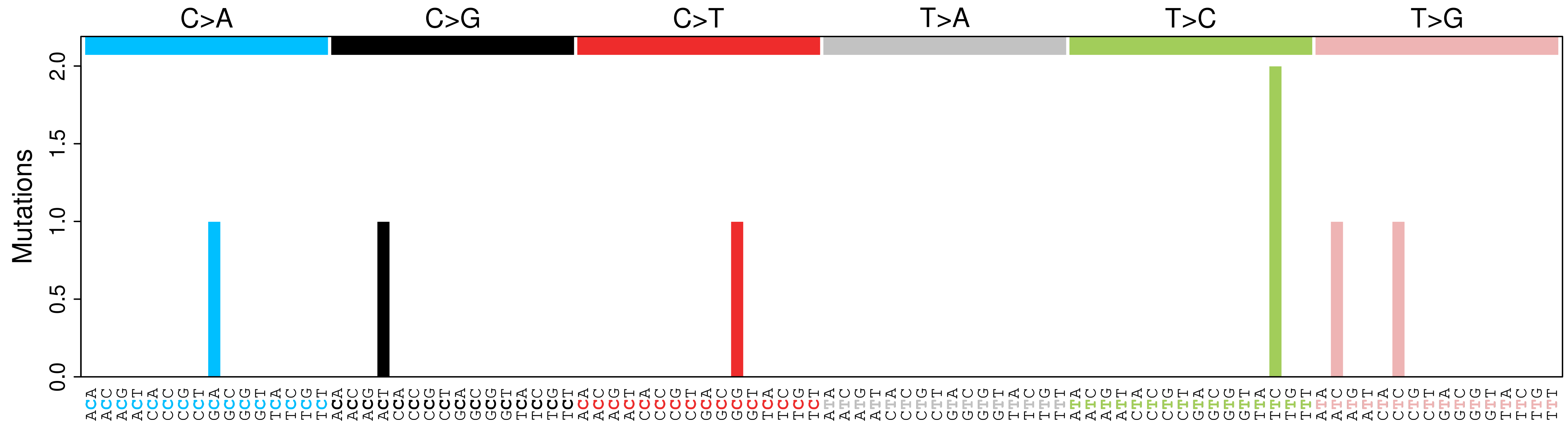
### CATD0592a (6 mutations)



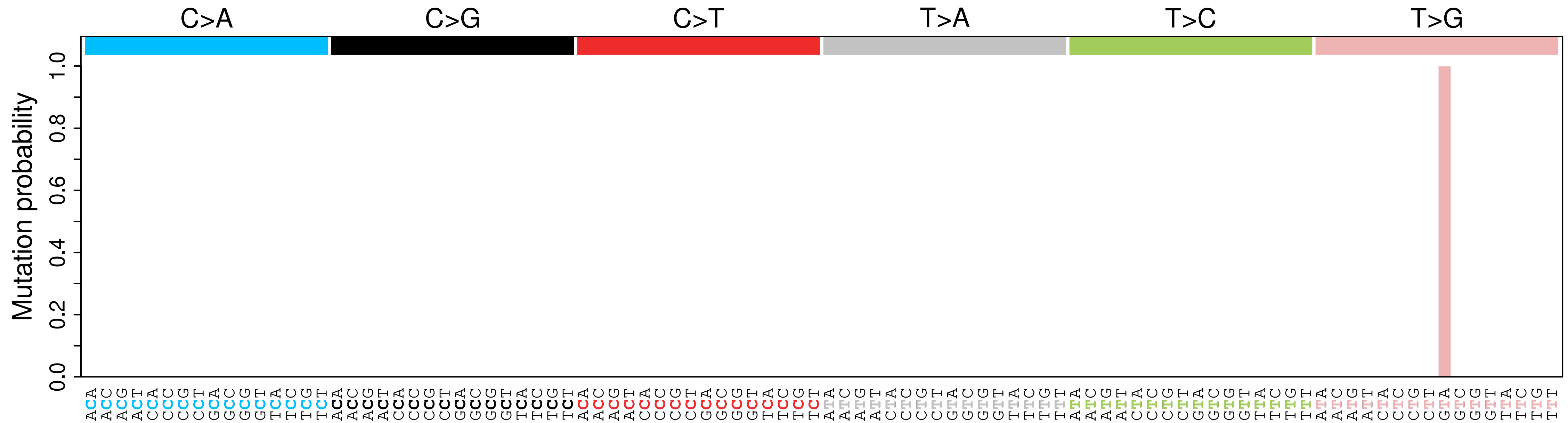
### Reconstructed spectrum (cosine similarity = 0.166)



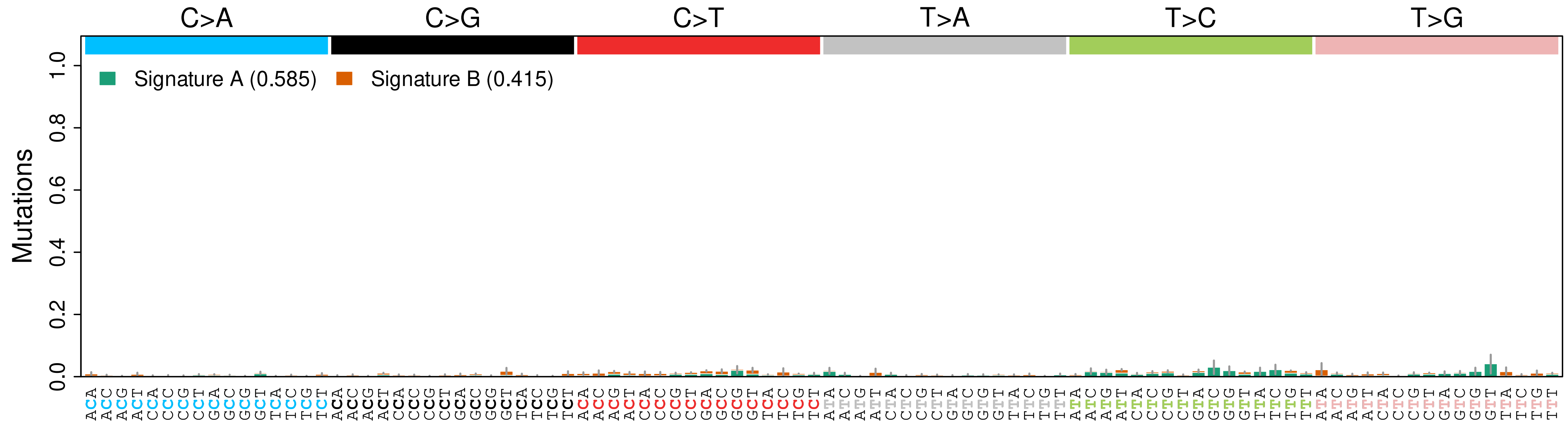
### CATD0603a (7 mutations)



**CATD0722a**



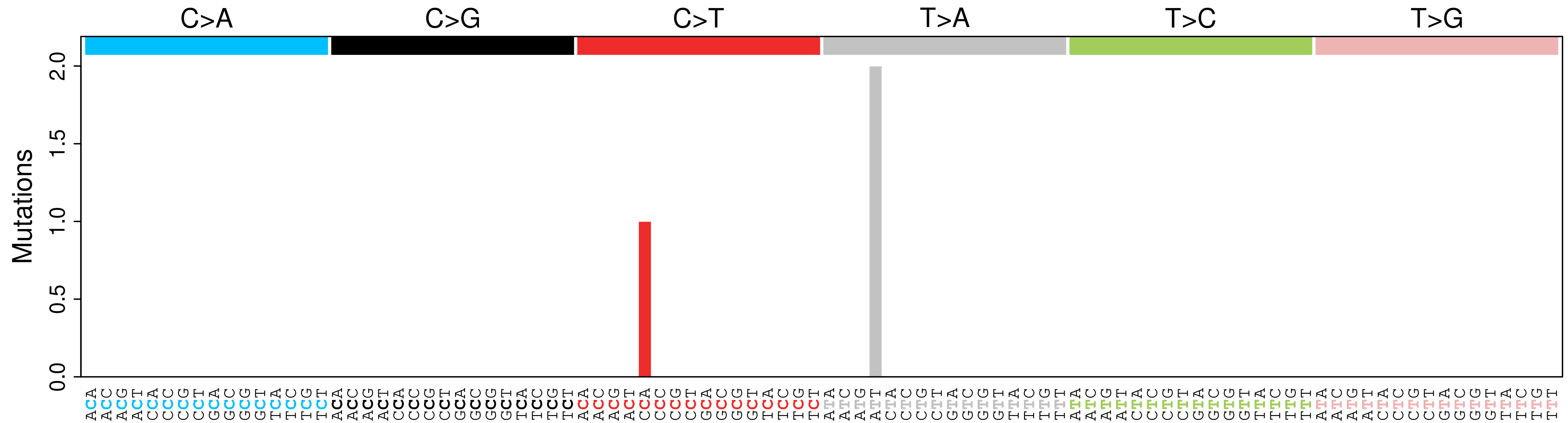
### Reconstructed spectrum (cosine similarity = 0.1)



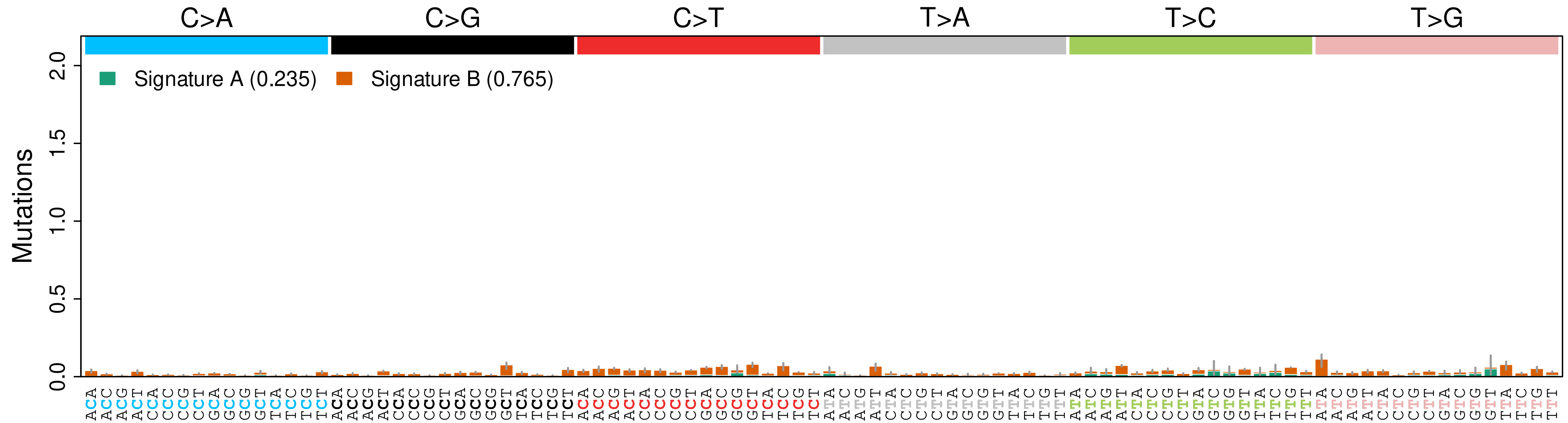




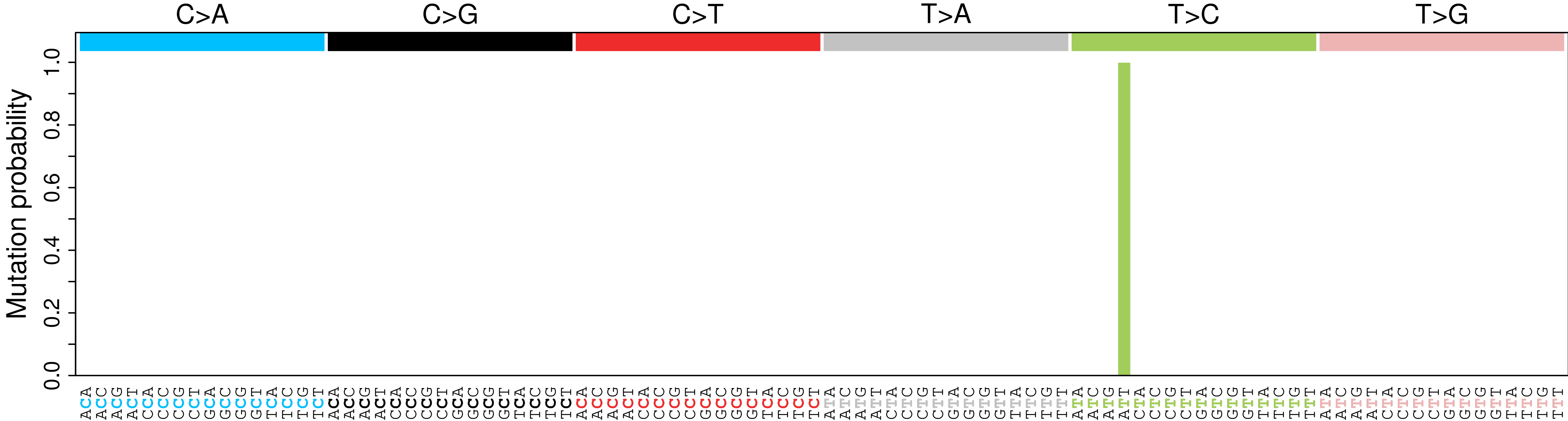
### CATD0585a (3 mutations)



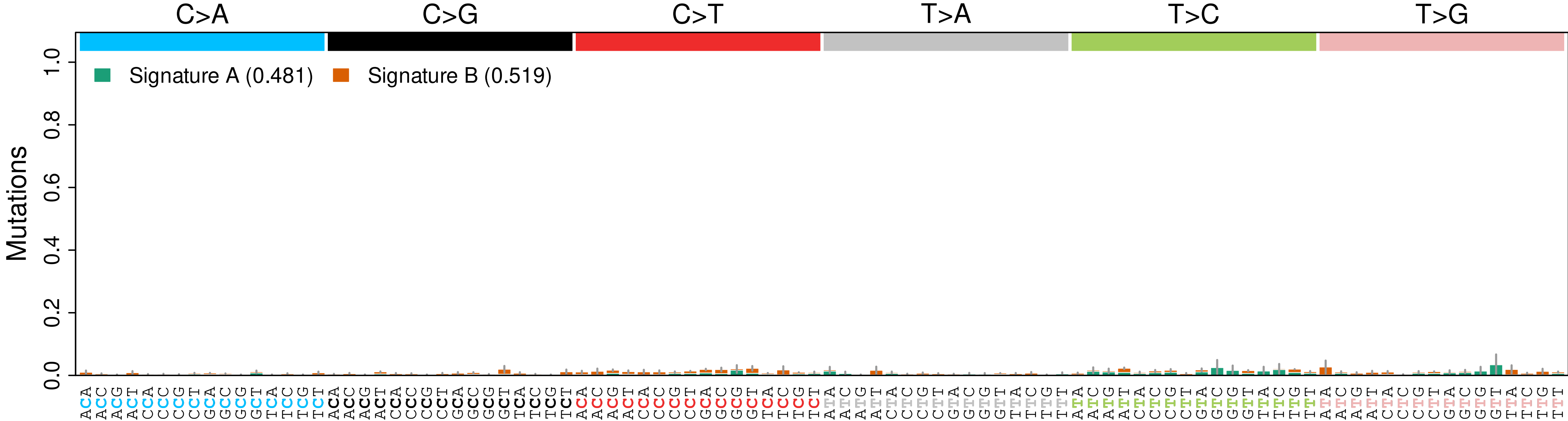
### Reconstructed spectrum (cosine similarity = 0.22)



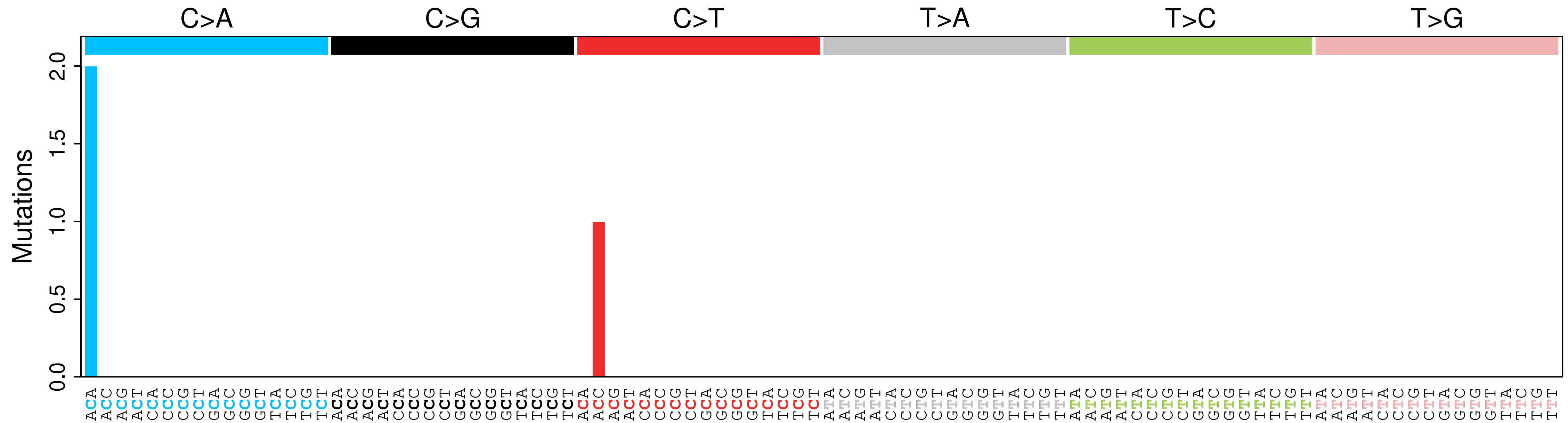
CATD0593a



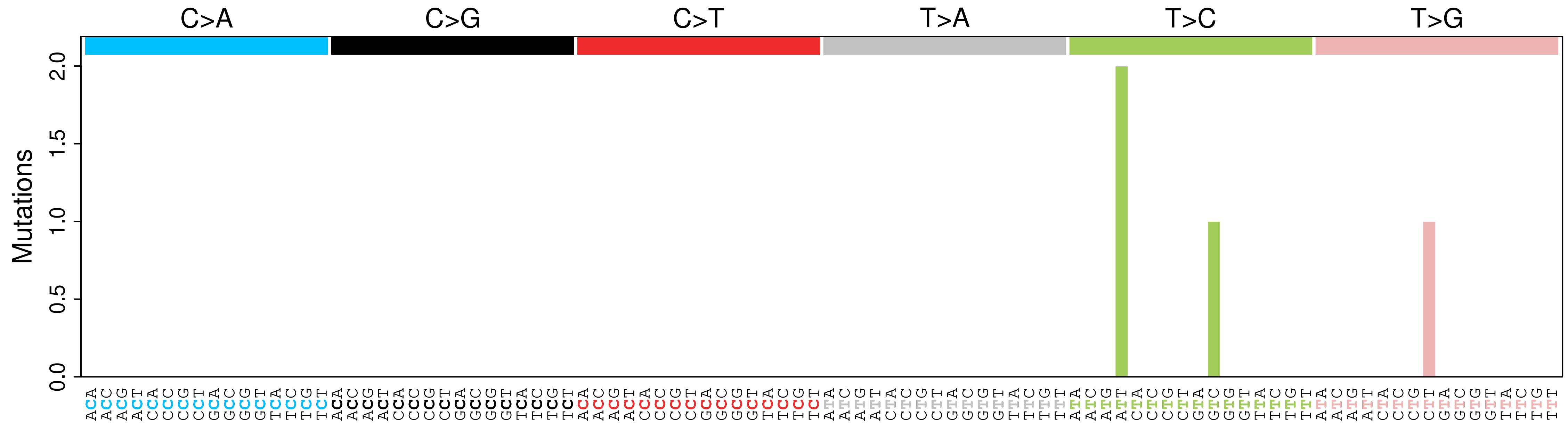
Reconstructed spectrum (cosine similarity = 0.188)



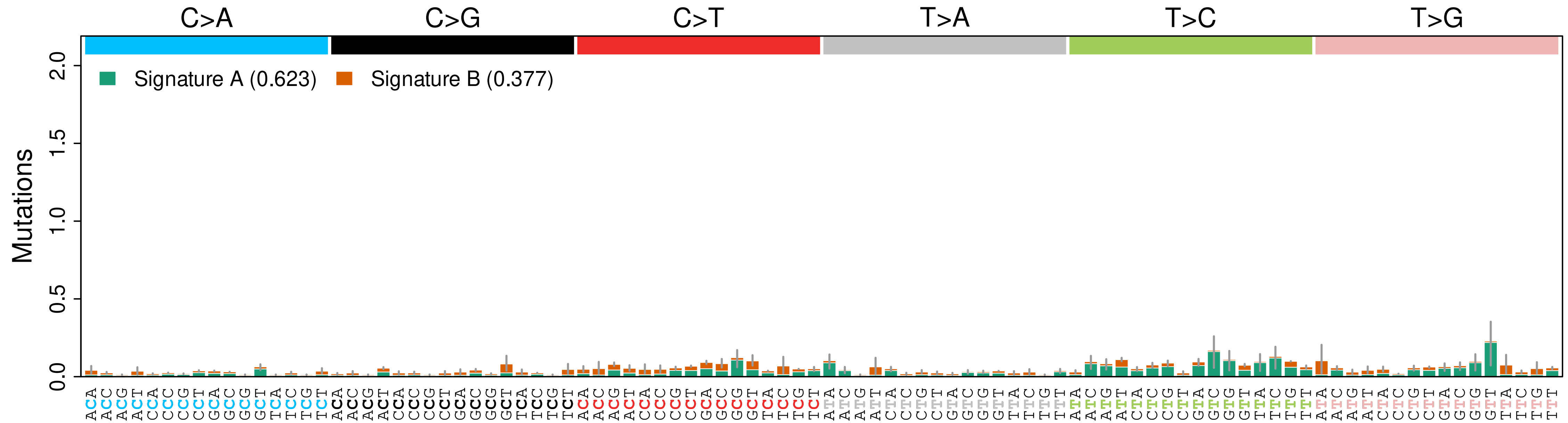
### CATD0581a (3 mutations)



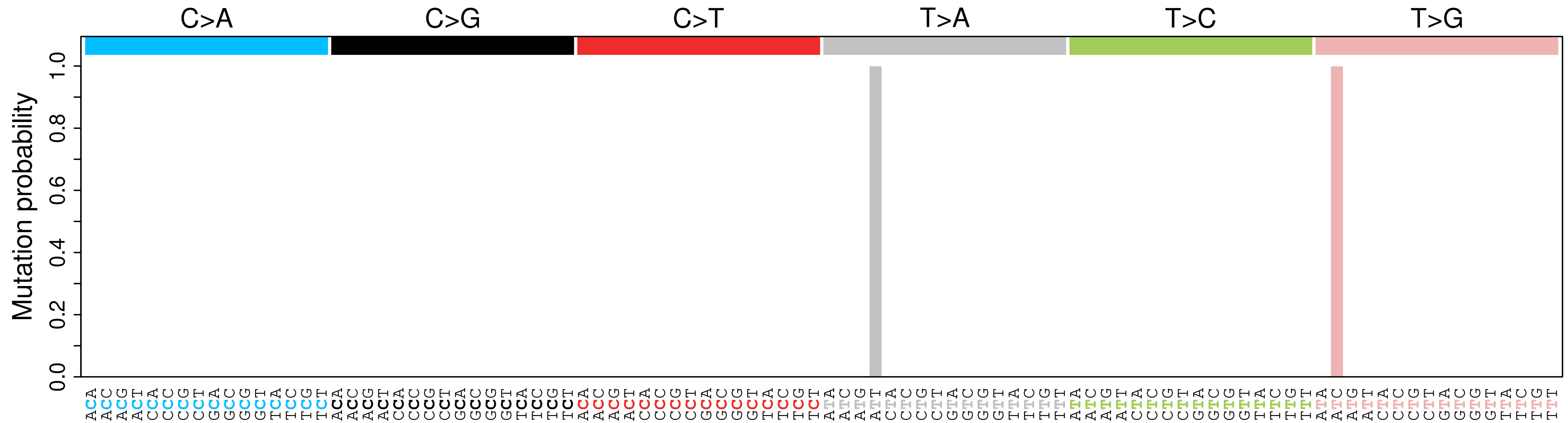
### CATD0736a (4 mutations)



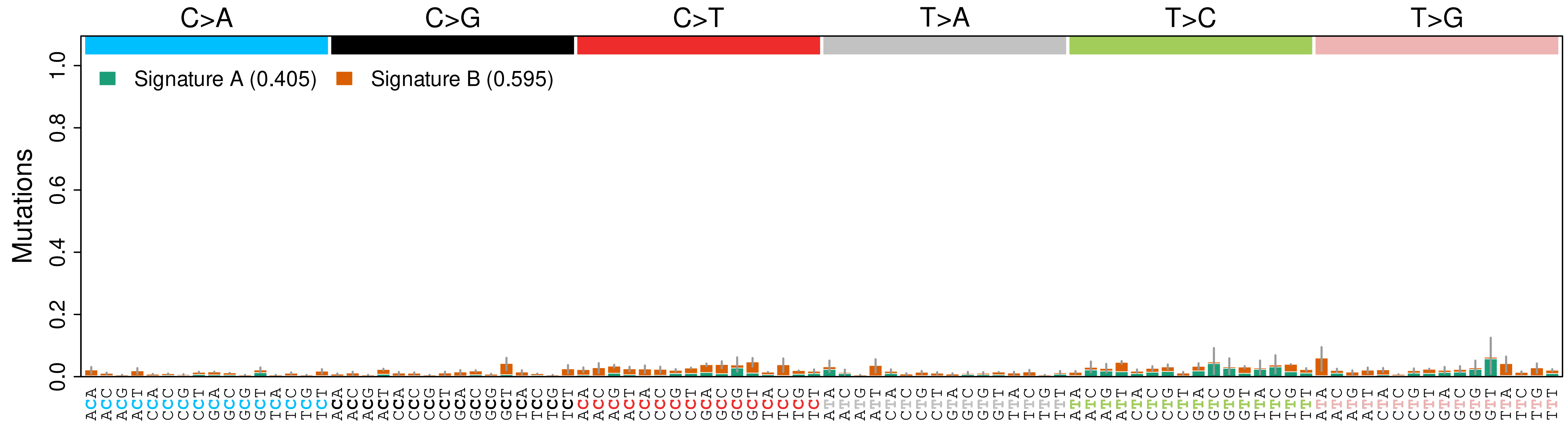
### Reconstructed spectrum (cosine similarity = 0.295)



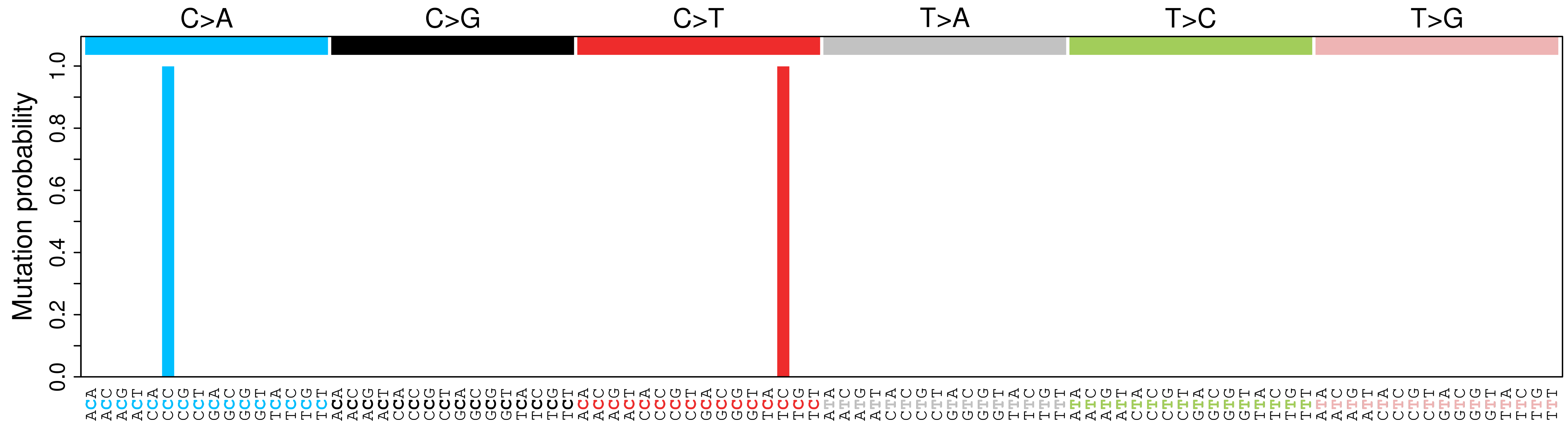
**CATD0596a**



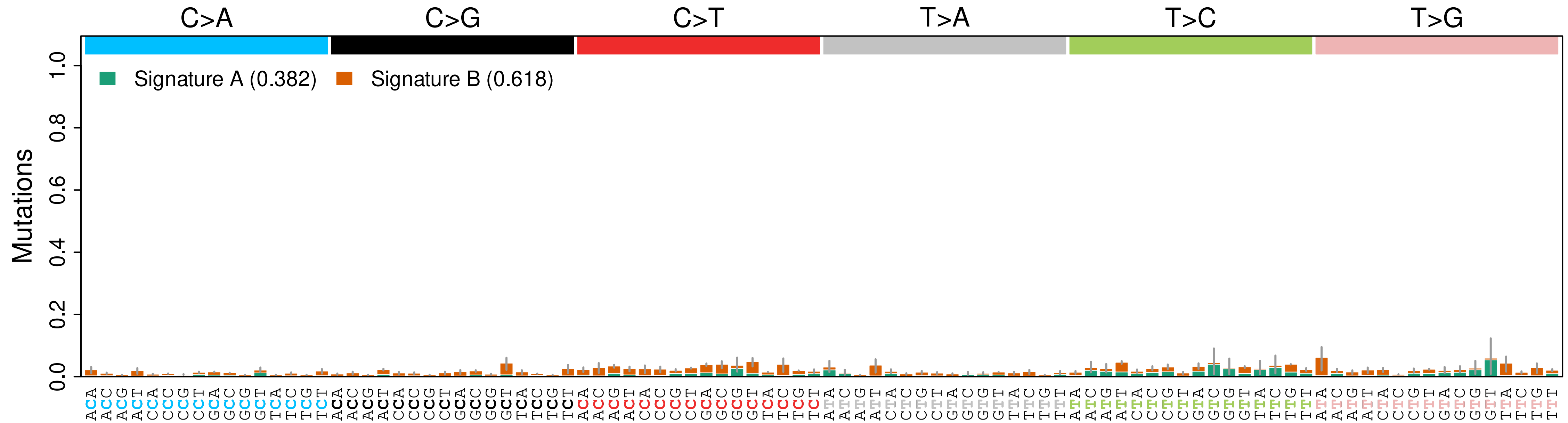
### Reconstructed spectrum (cosine similarity = 0.166)



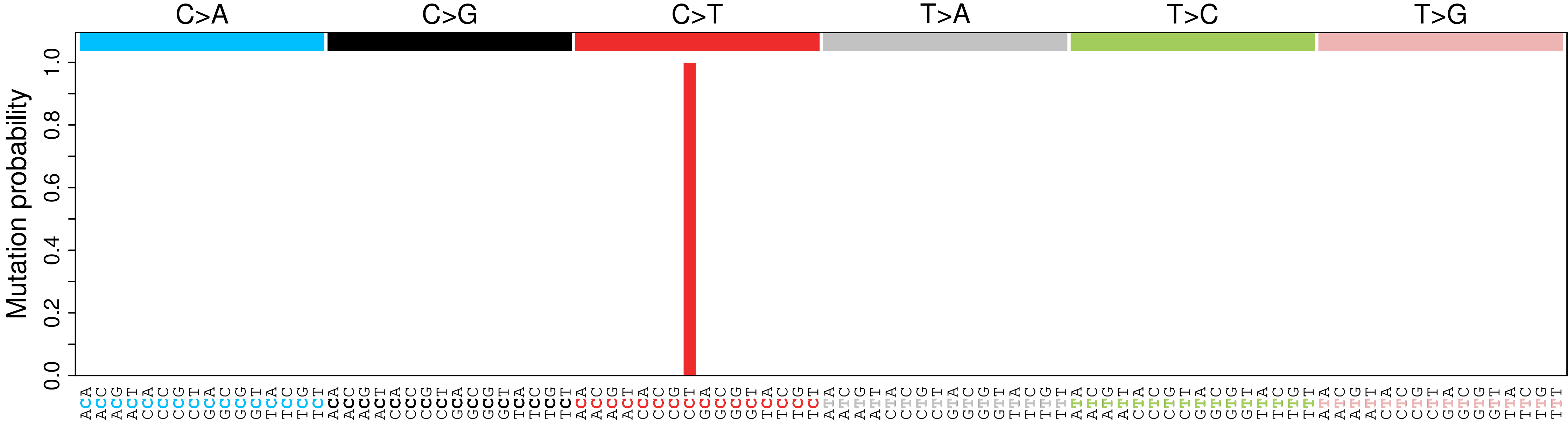
**CATD0719a**



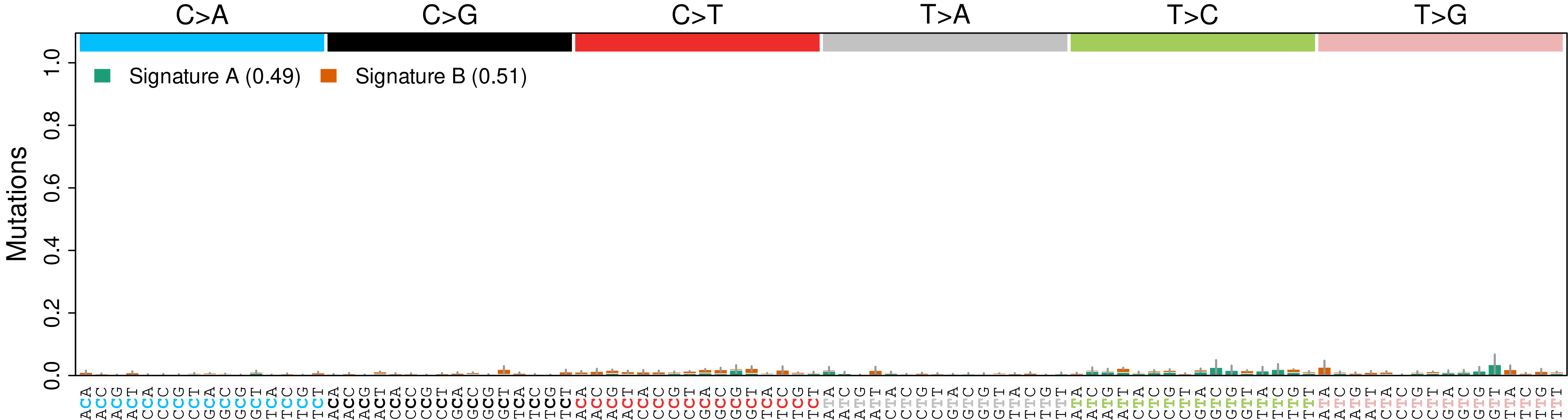
### Reconstructed spectrum (cosine similarity = 0.146)



CATD0721a

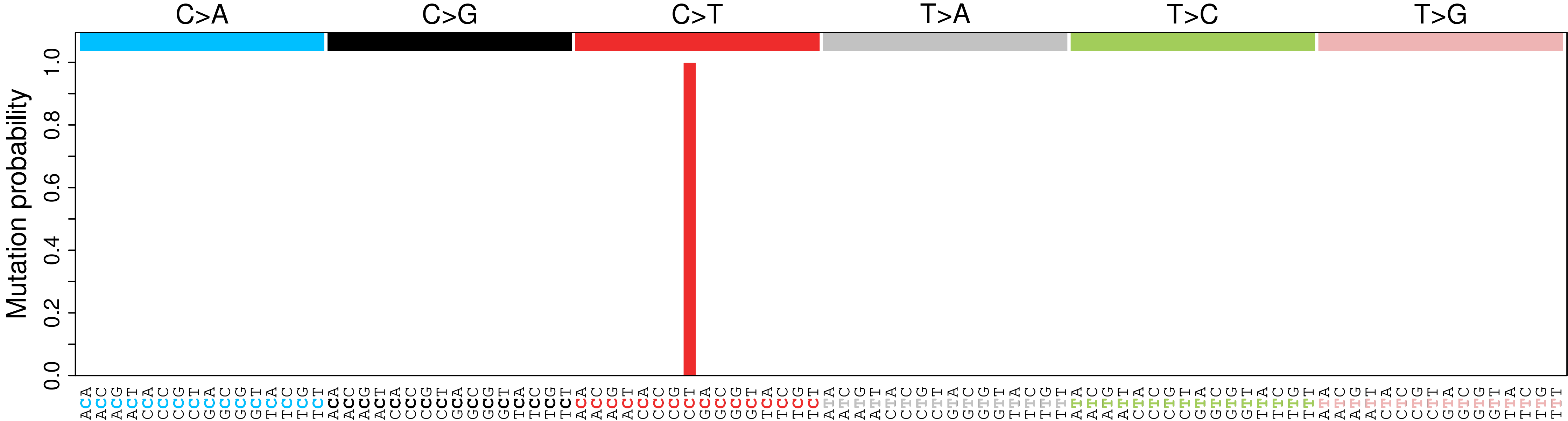


Reconstructed spectrum (cosine similarity = 0.114)

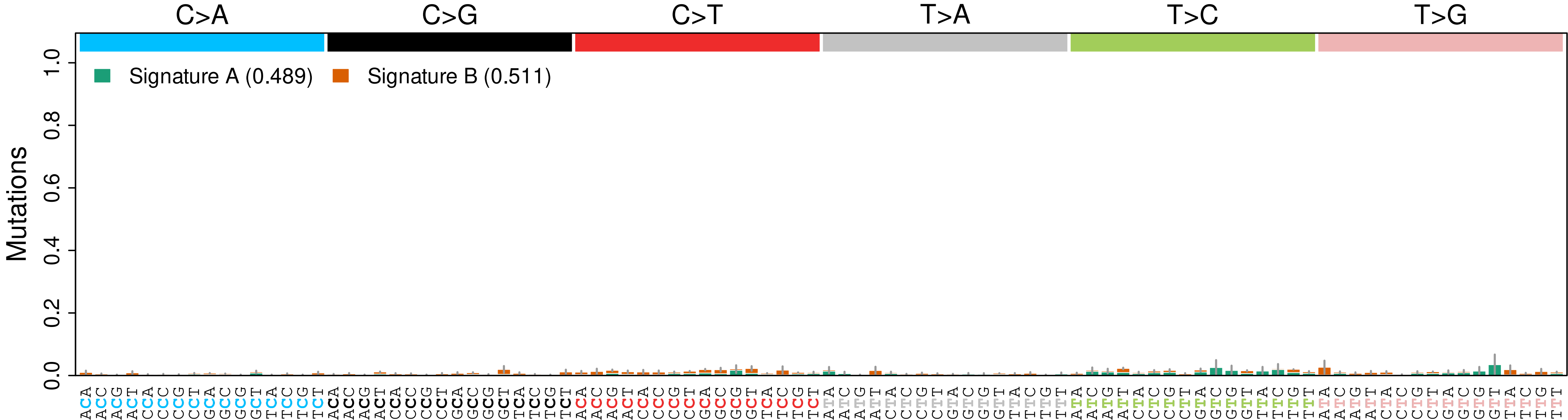




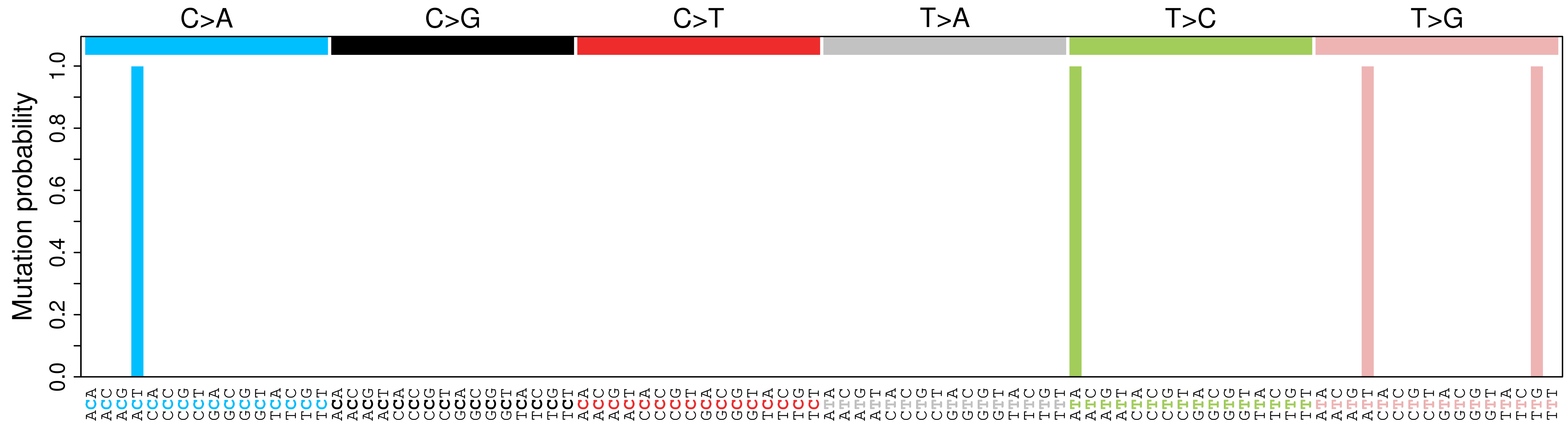
CATD0604a



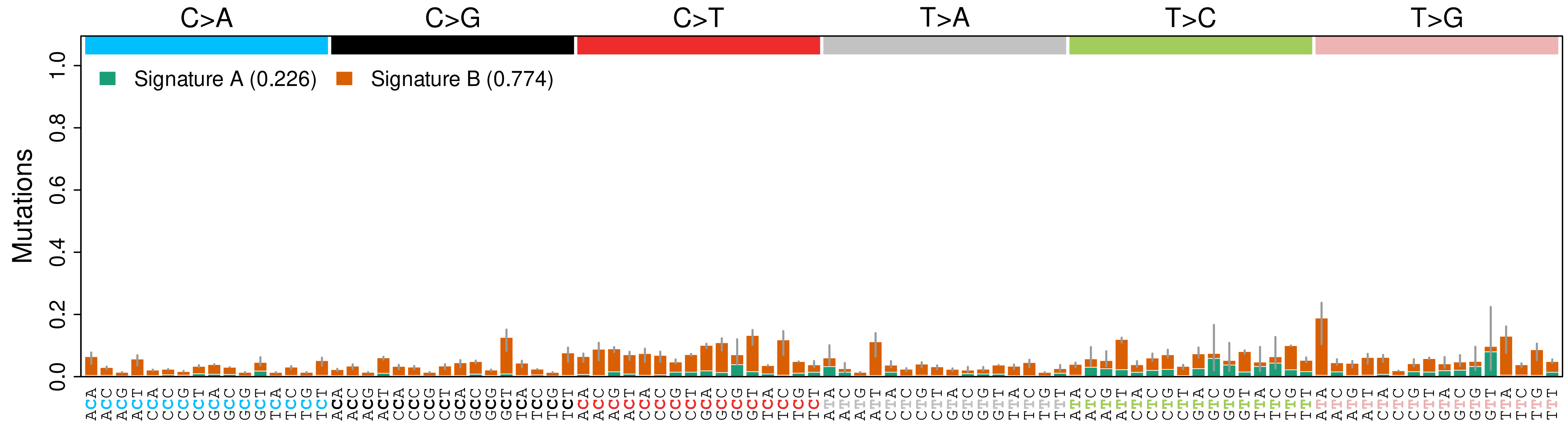
Reconstructed spectrum (cosine similarity = 0.114)



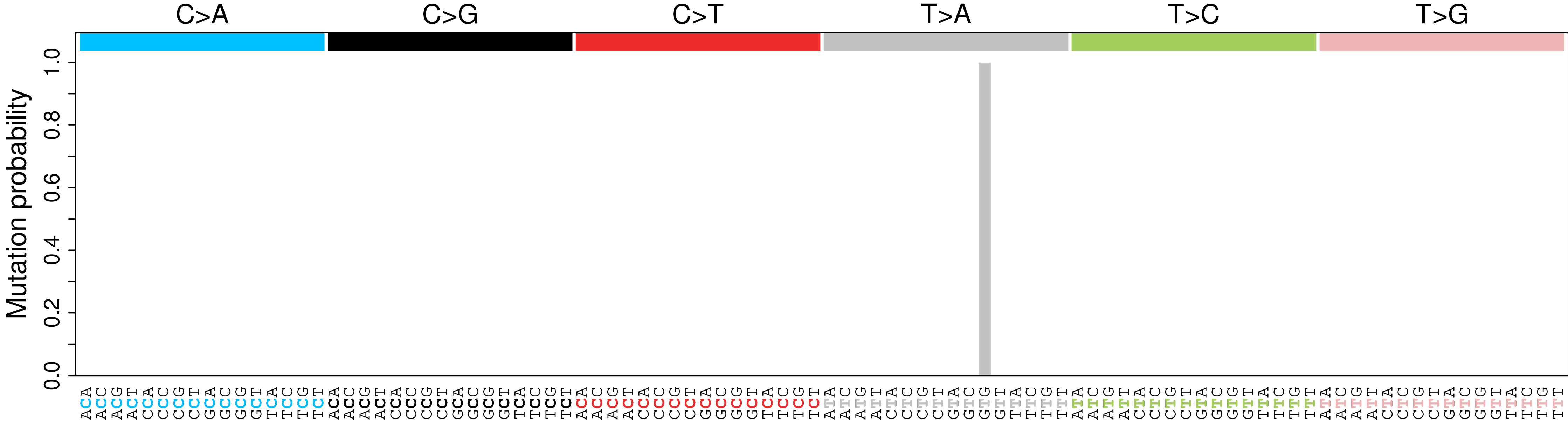
**CATD0720a**



**Reconstructed spectrum (cosine similarity = 0.204)**



CATD0682a



Reconstructed spectrum (cosine similarity = 0.05)

