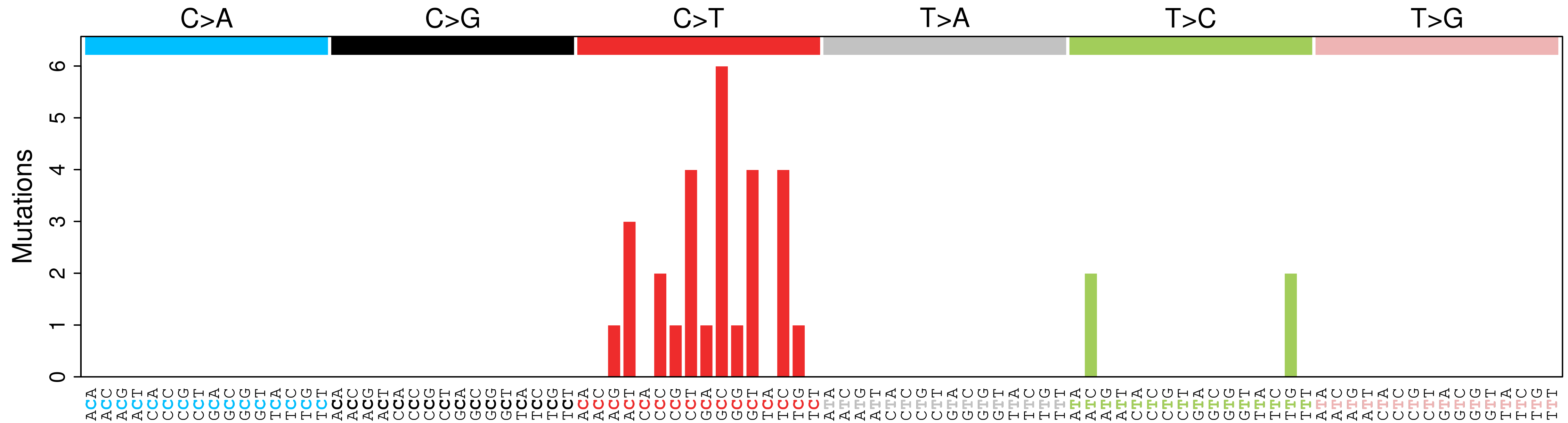
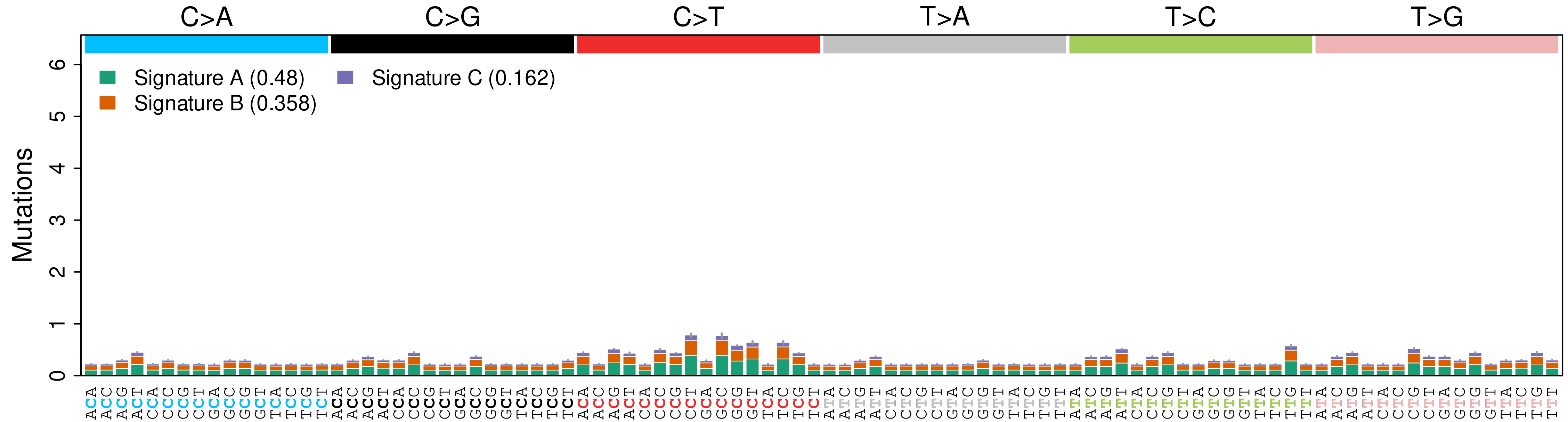


## CATD0393a (32 mutations)

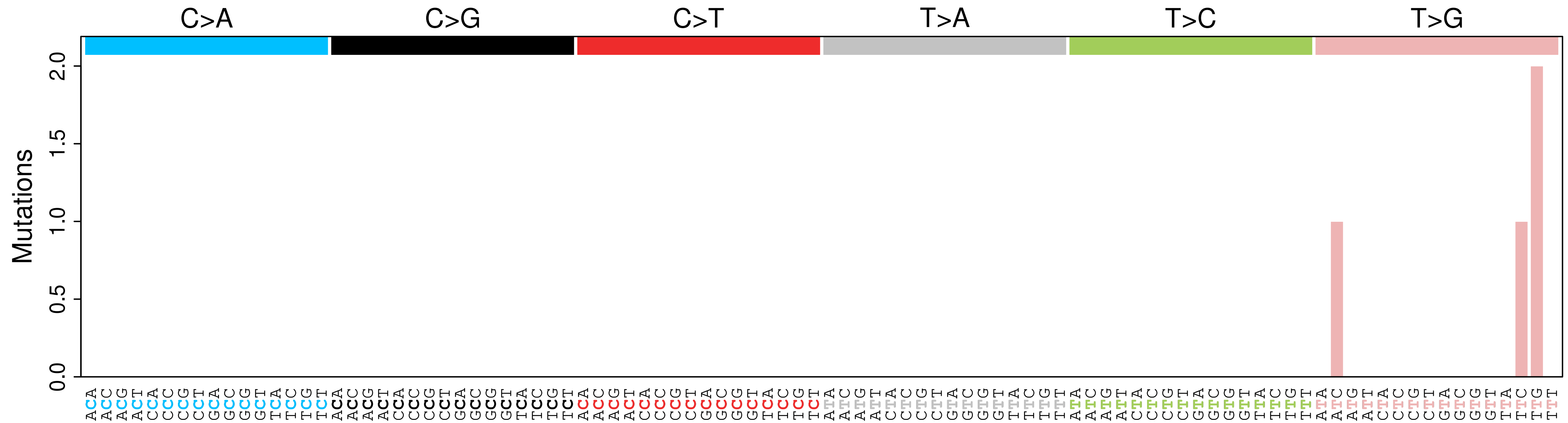


### Reconstructed spectrum (cosine similarity = 0.559)

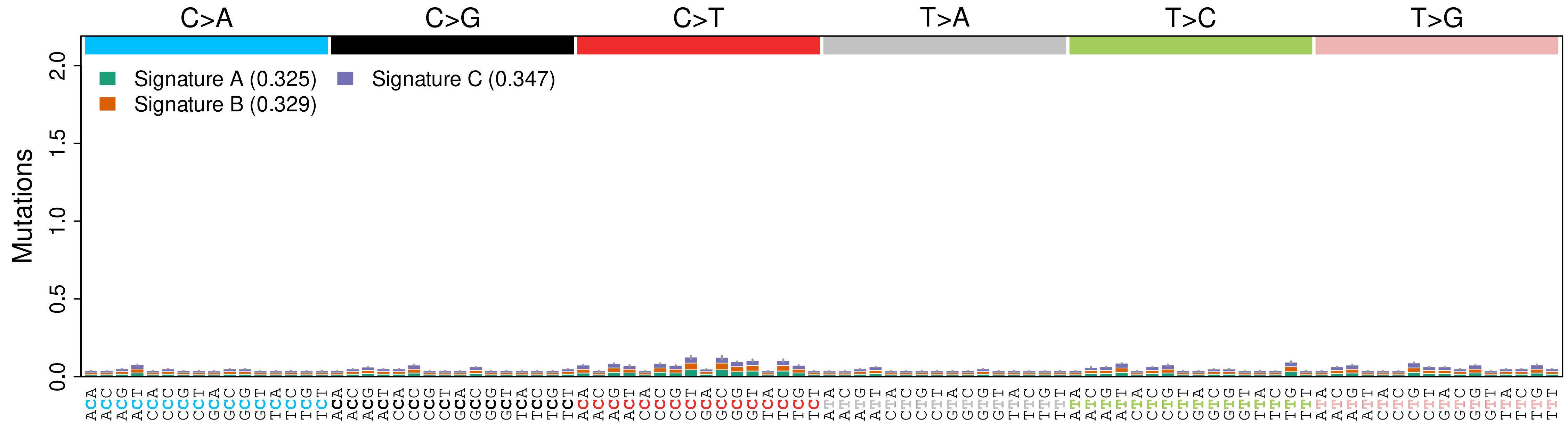




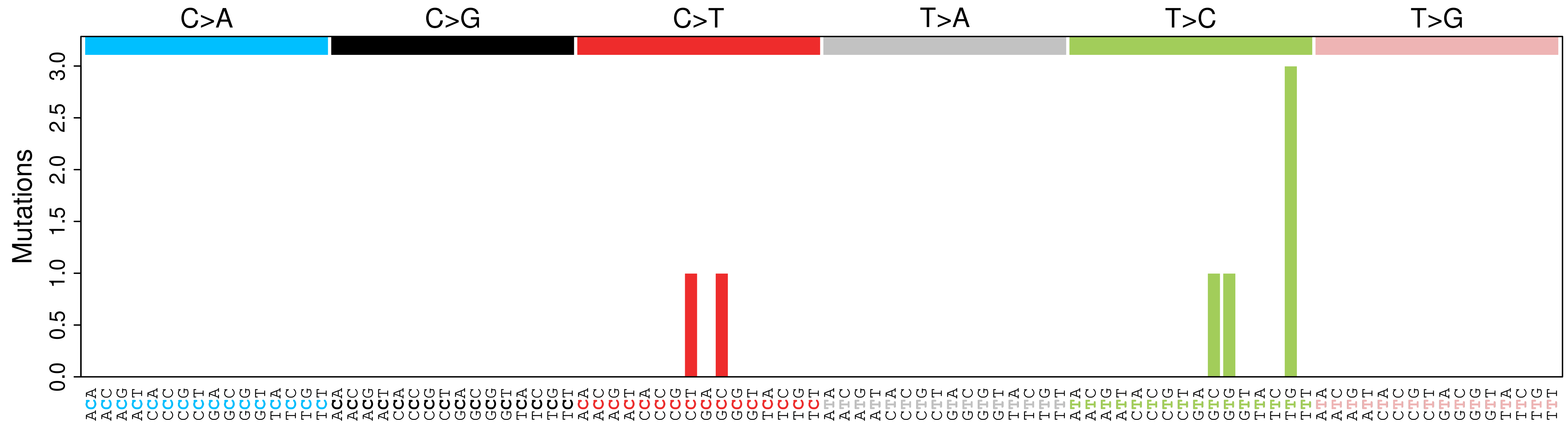
### CATD0388a (4 mutations)



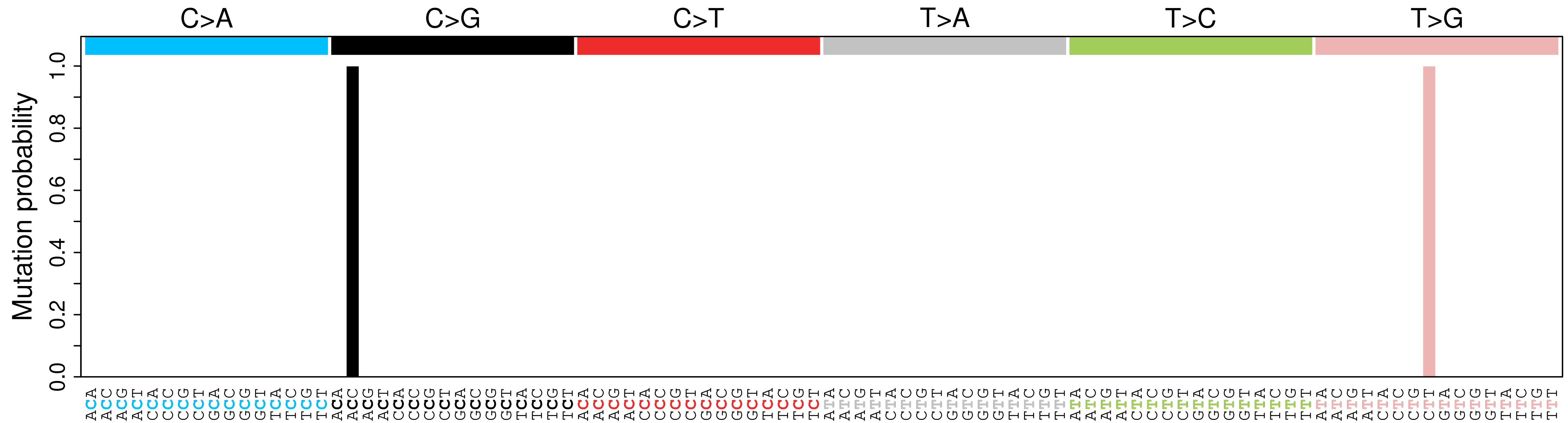
### Reconstructed spectrum (cosine similarity = 0.196)



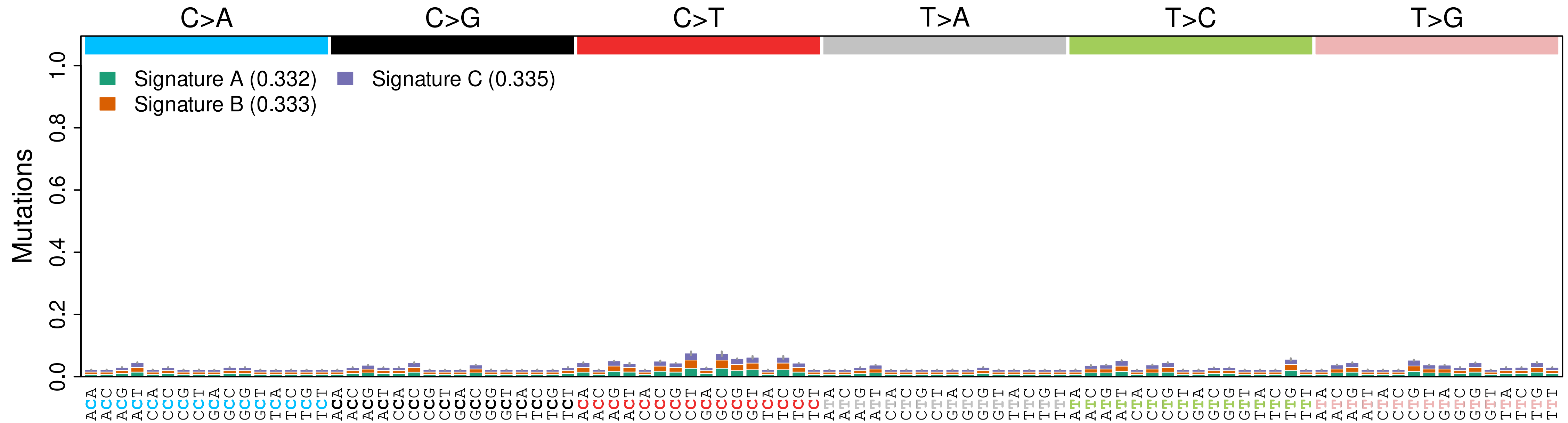
### CATD0395a (7 mutations)



**CATD0434a**



### Reconstructed spectrum (cosine similarity = 0.145)



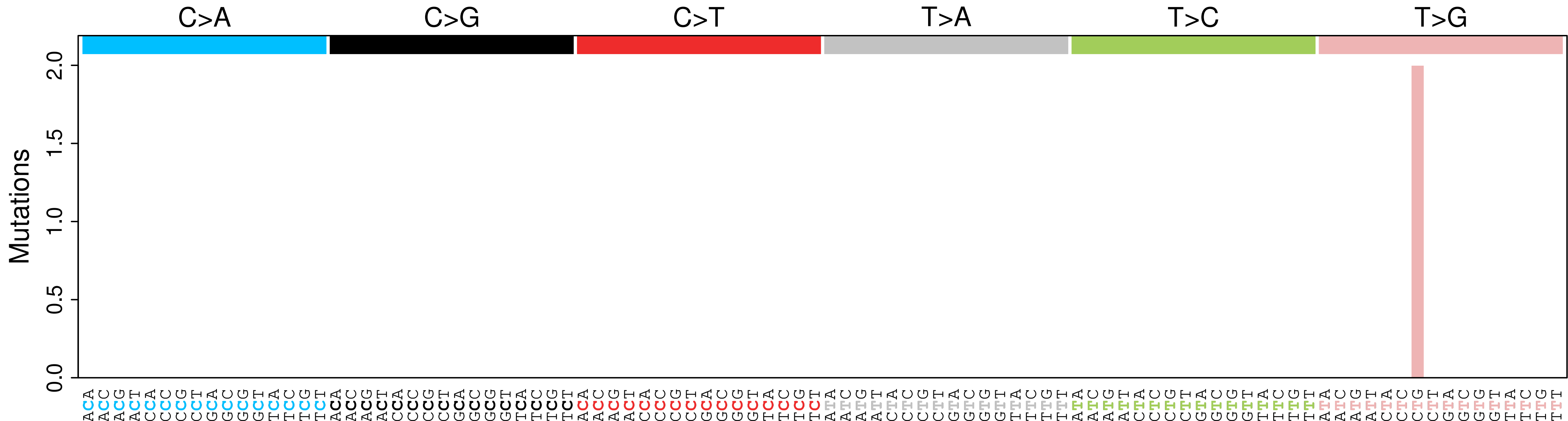
# CATD0666a



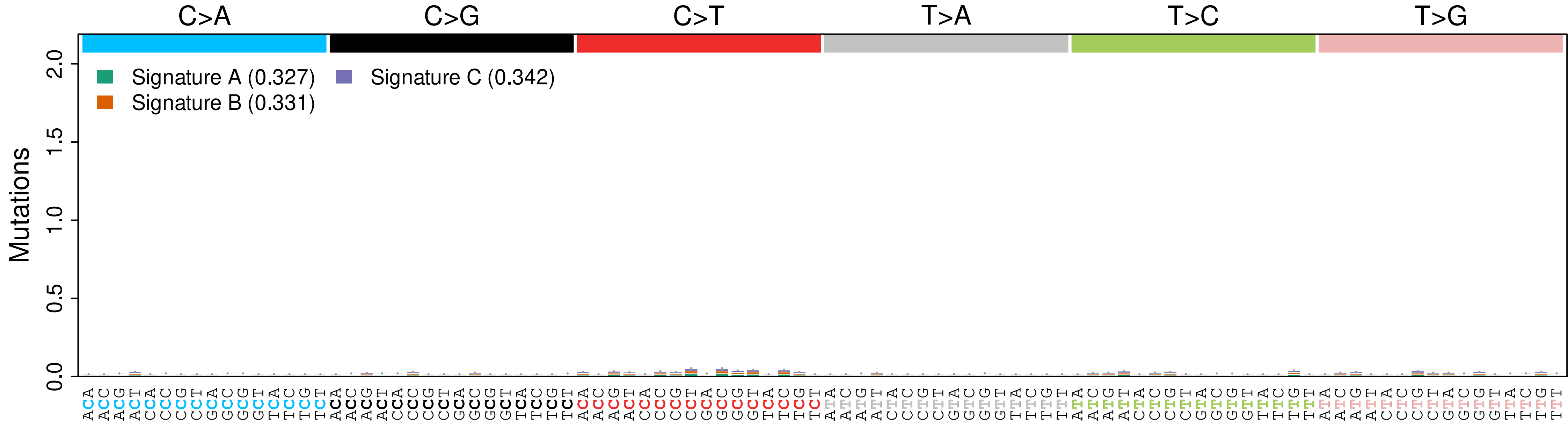
## Reconstructed spectrum (cosine similarity = 0.23)



CATD0391a (2 mutations)

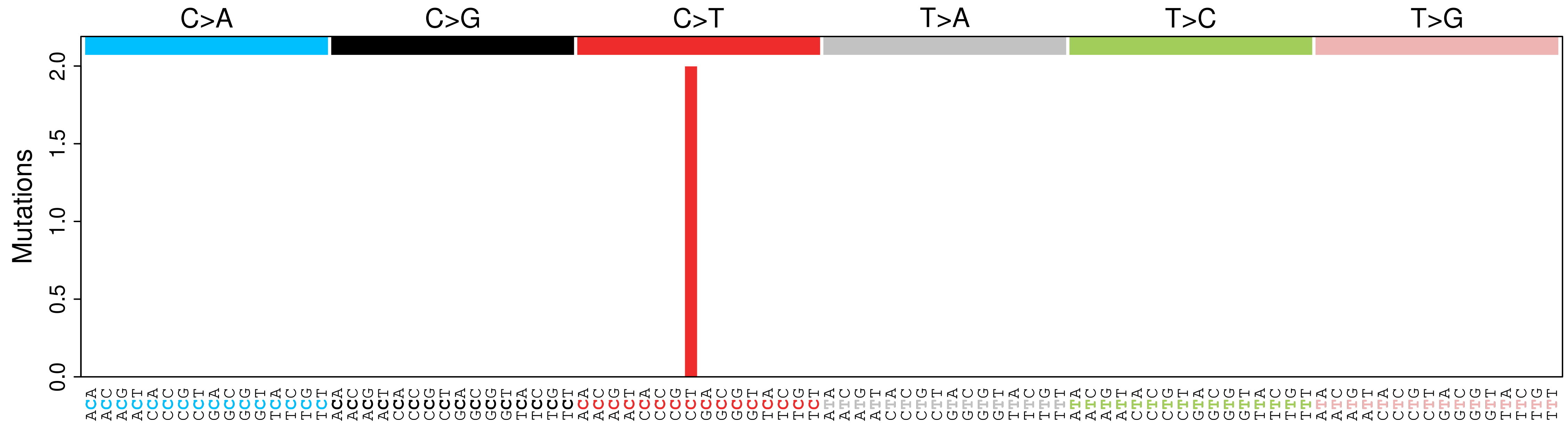


Reconstructed spectrum (cosine similarity = 0.161)

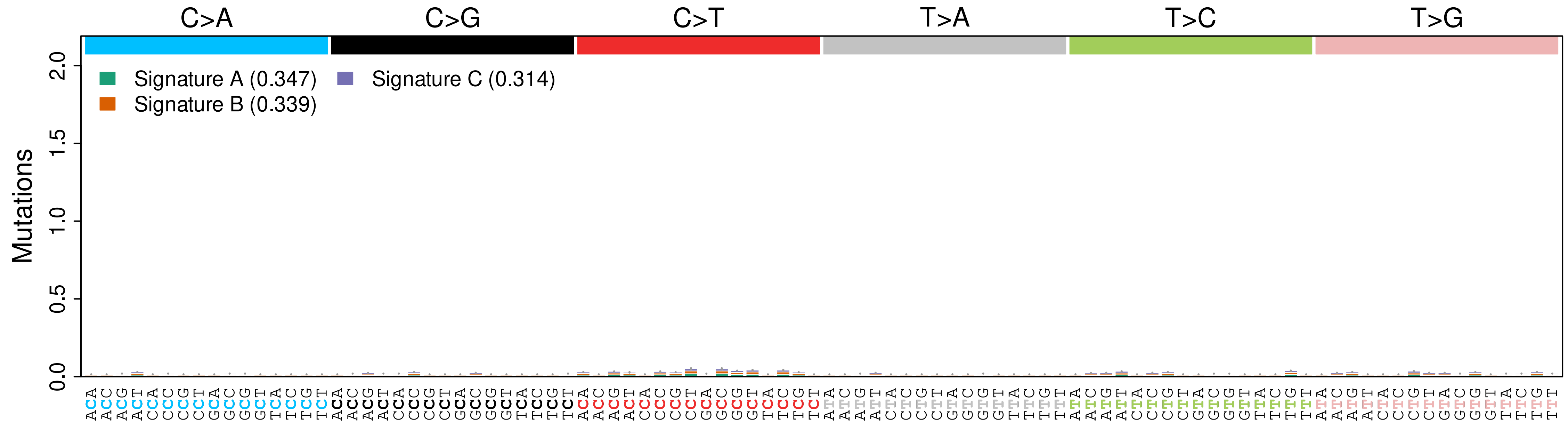




### CATD0387a (2 mutations)

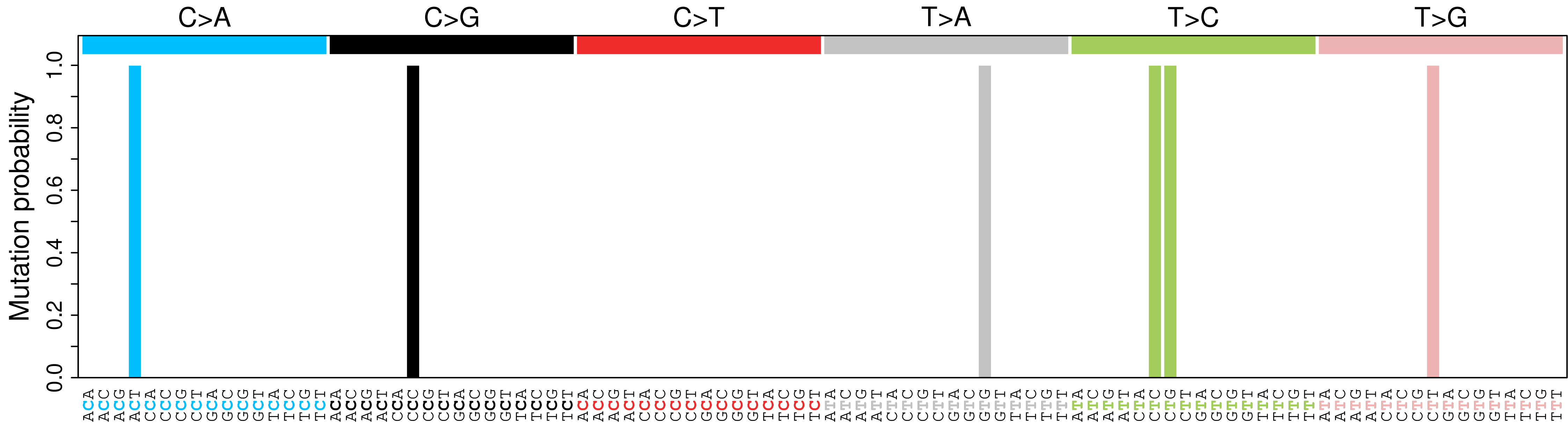


### Reconstructed spectrum (cosine similarity = 0.231)

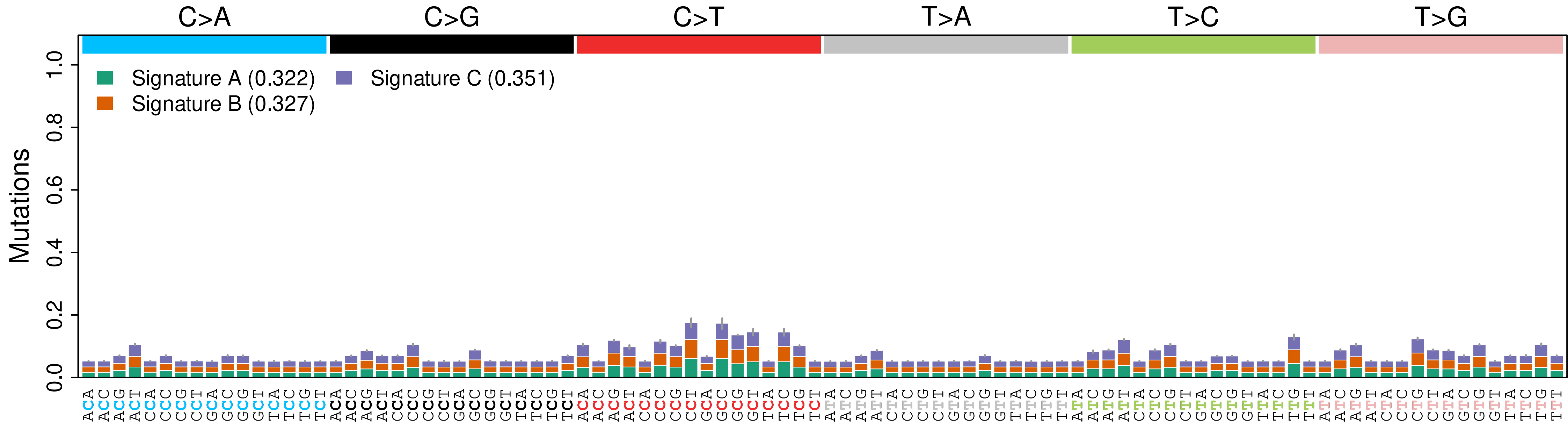




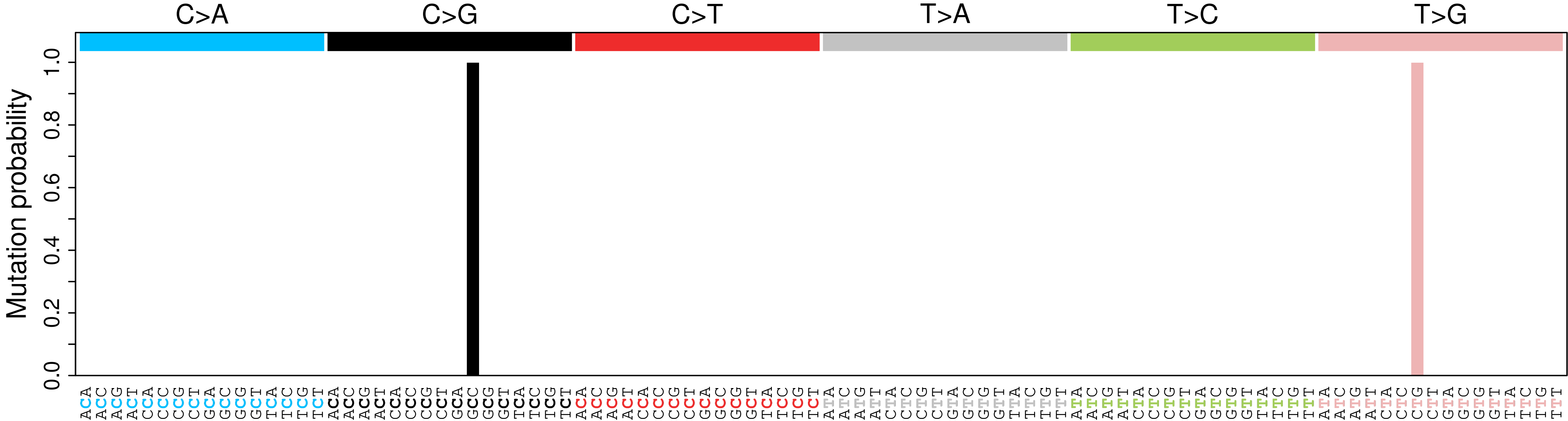
CATD0381a



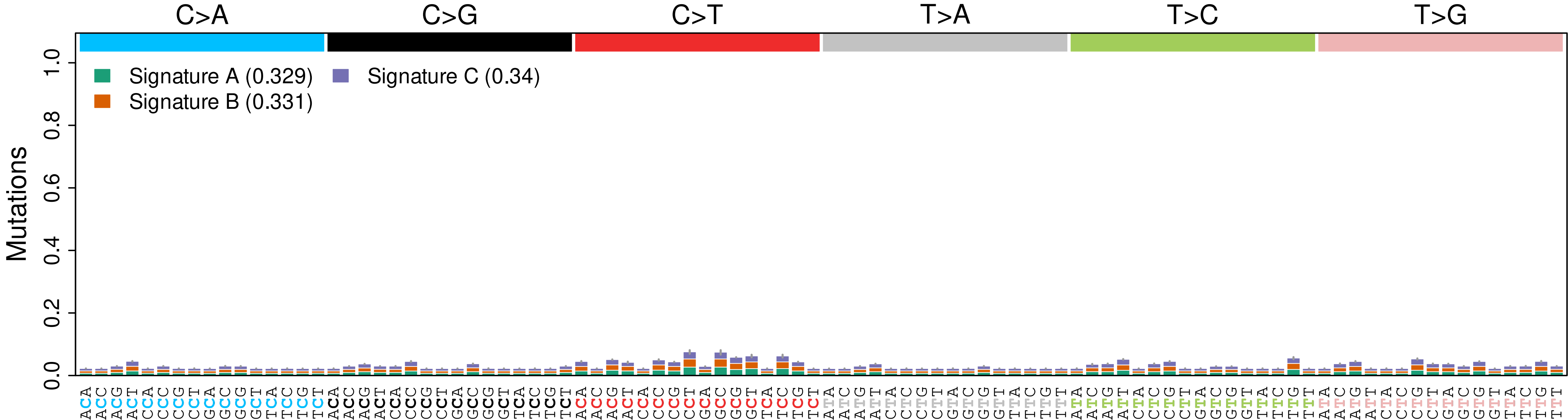
Reconstructed spectrum (cosine similarity = 0.298)



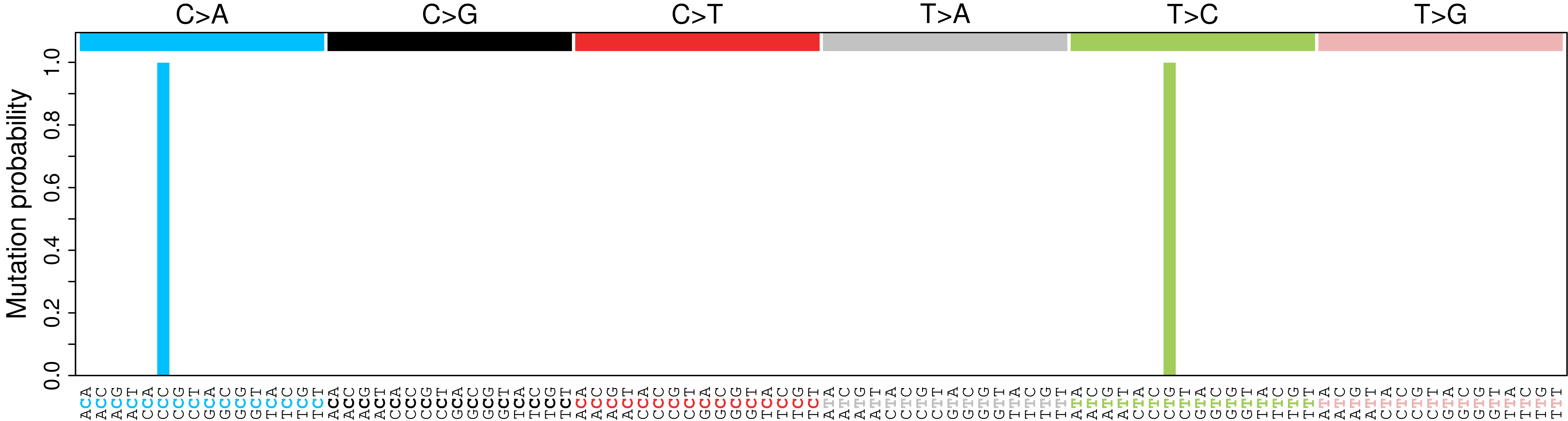
CATD0390a



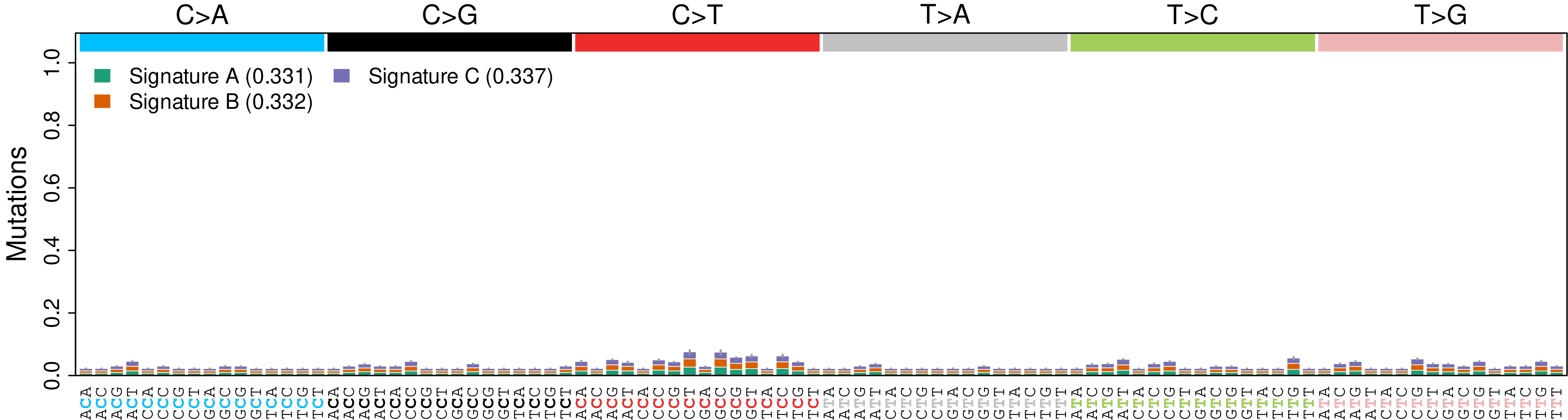
Reconstructed spectrum (cosine similarity = 0.194)



CATD0423a

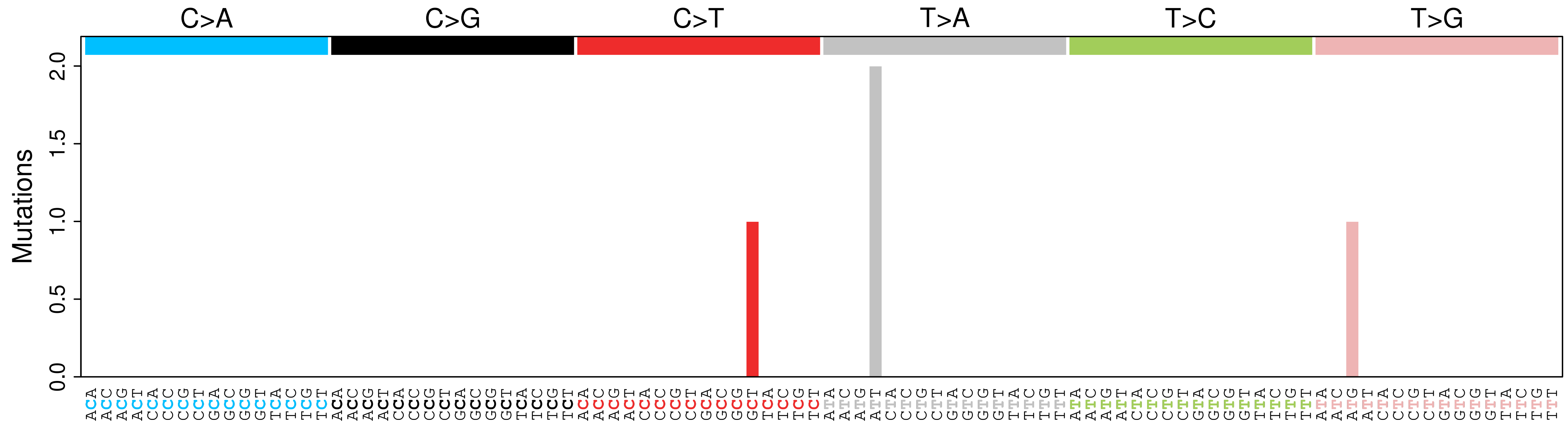


Reconstructed spectrum (cosine similarity = 0.161)



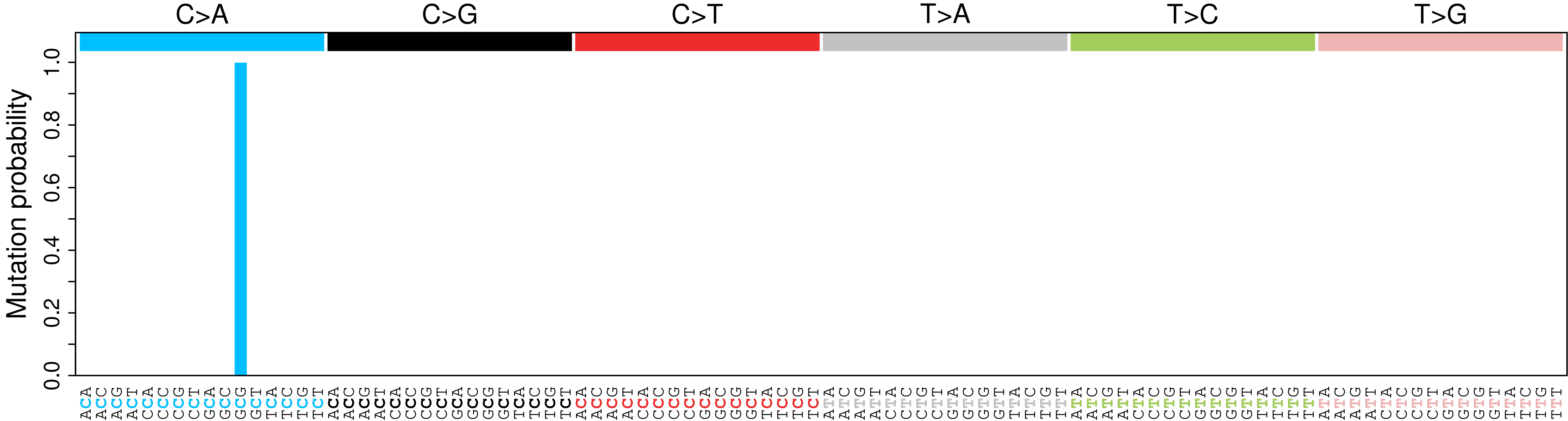


### CATD0428a (4 mutations)

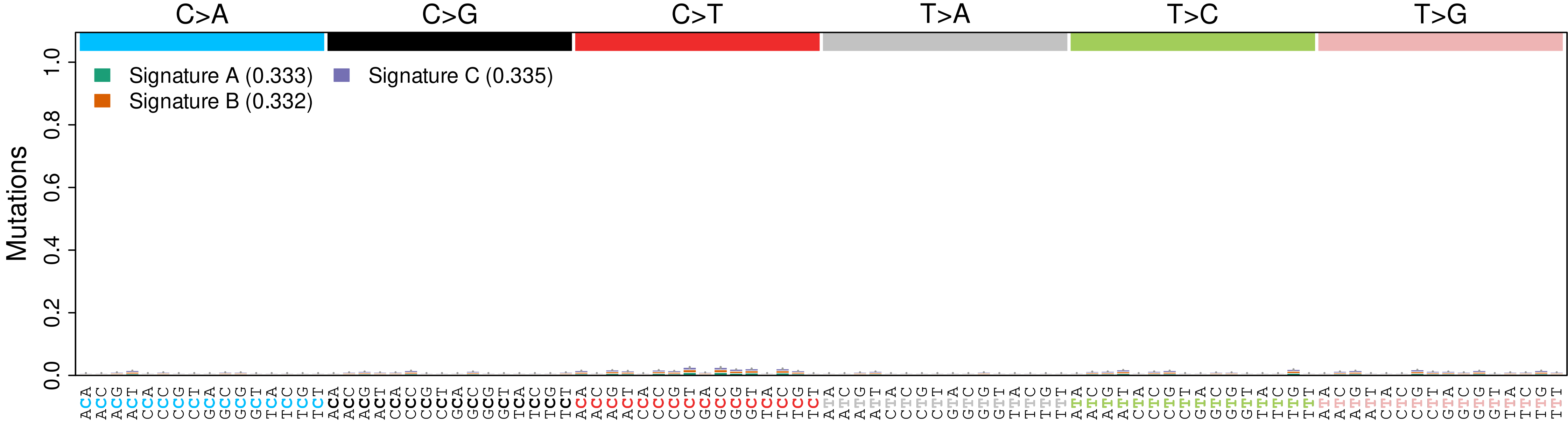




CATD0380a

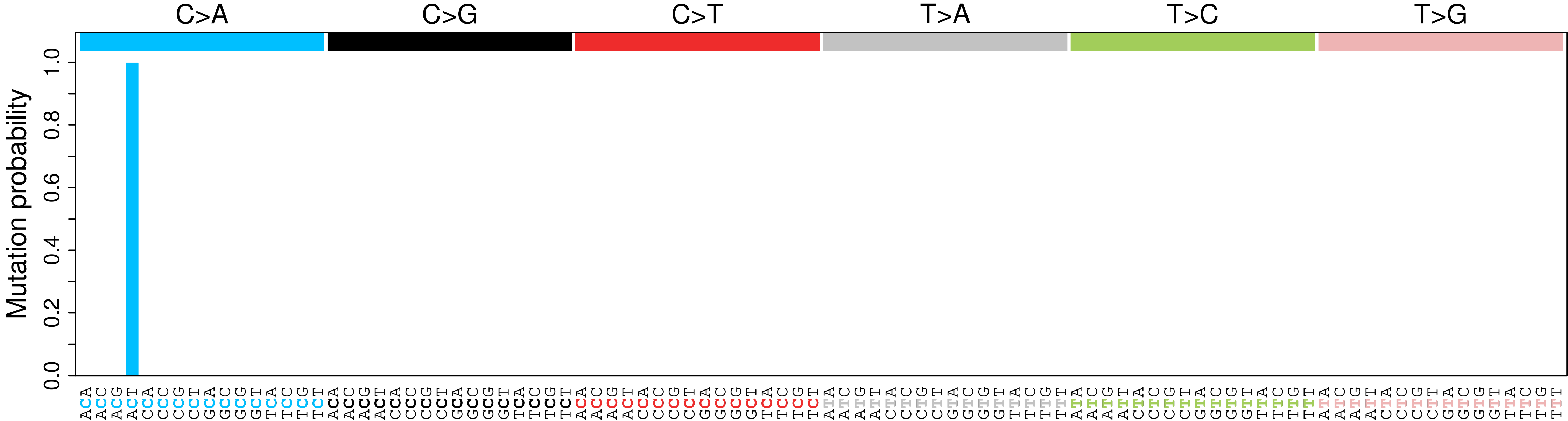


Reconstructed spectrum (cosine similarity = 0.09)

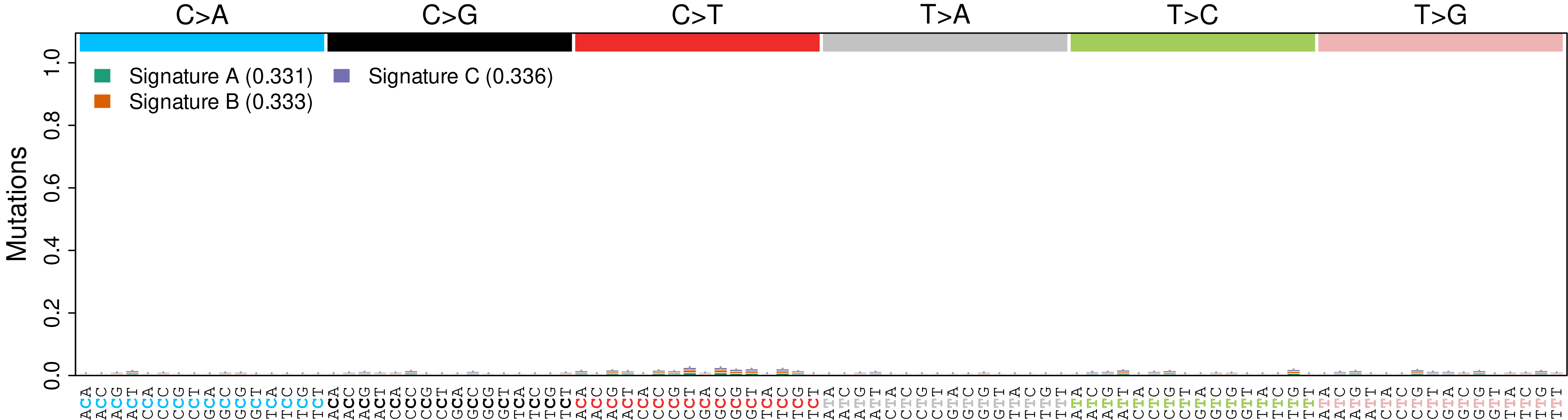




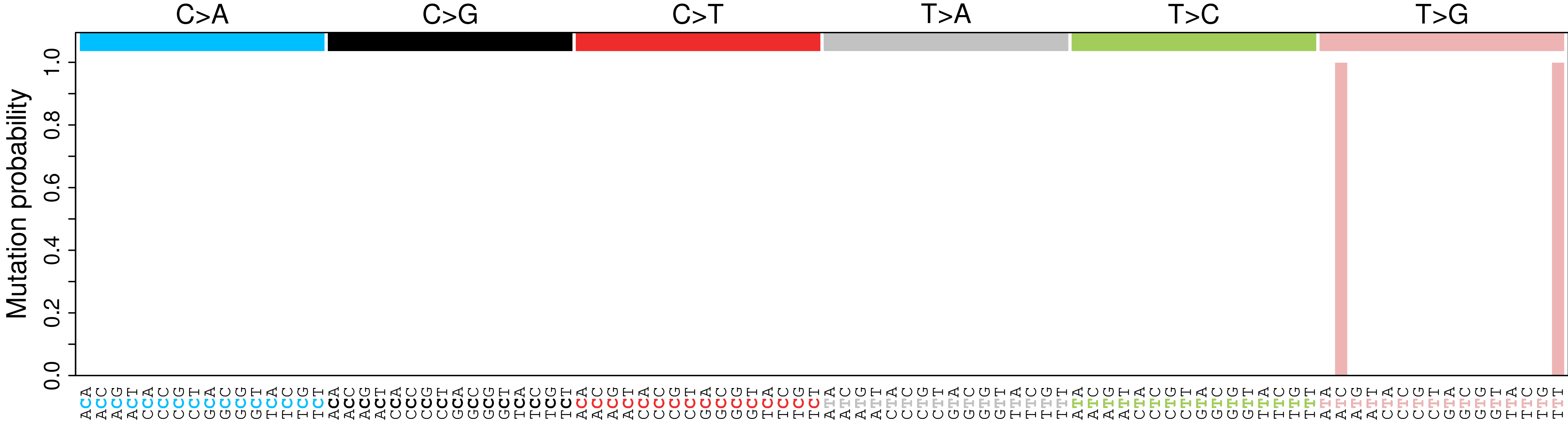
CATD0662a



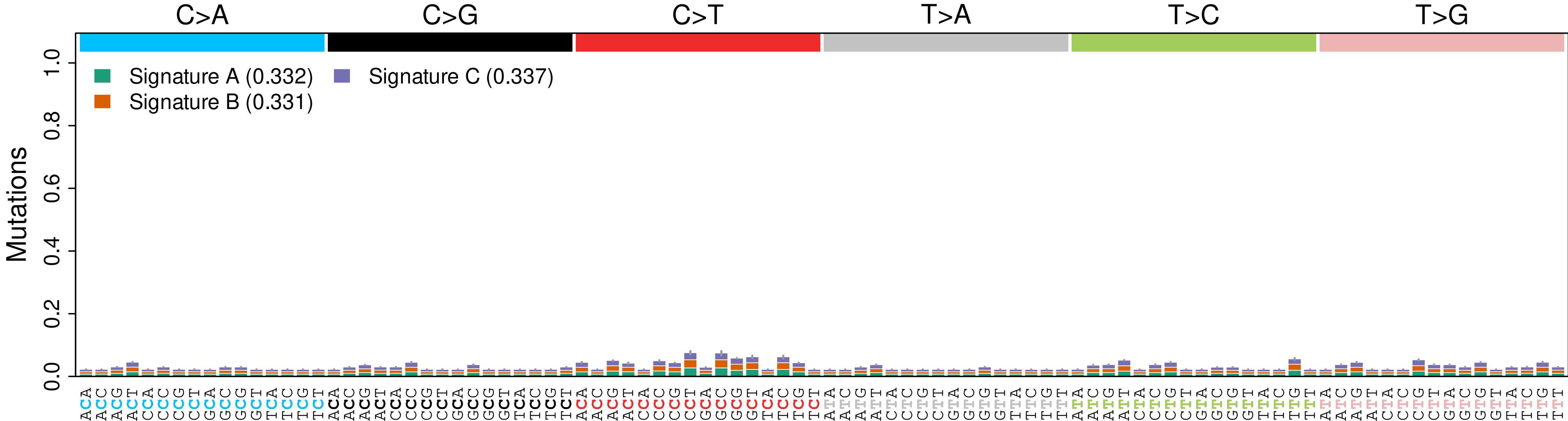
Reconstructed spectrum (cosine similarity = 0.138)



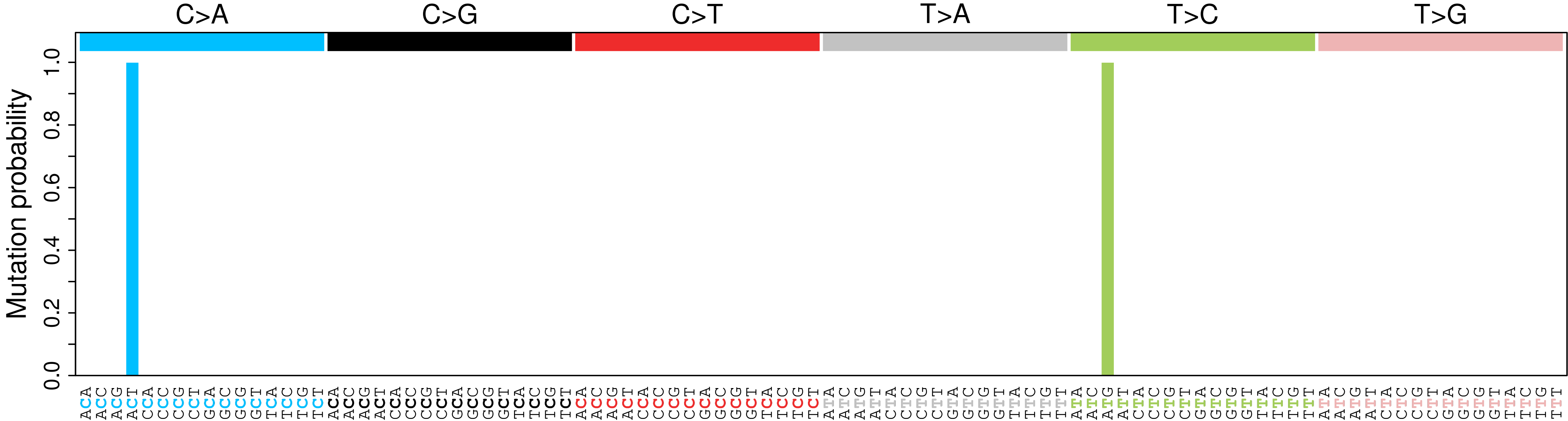
CATD0399a



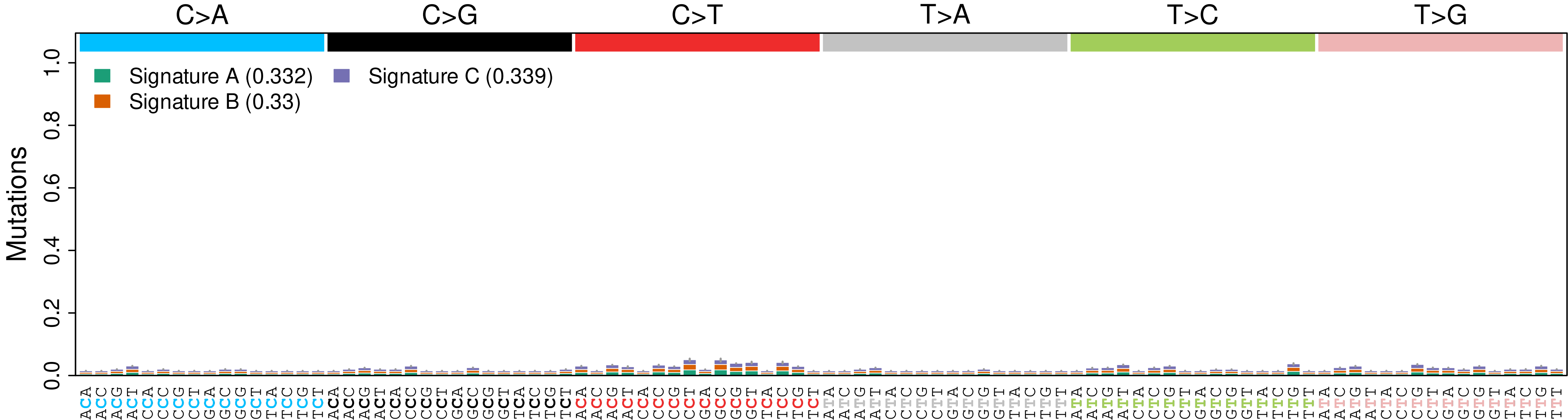
Reconstructed spectrum (cosine similarity = 0.145)



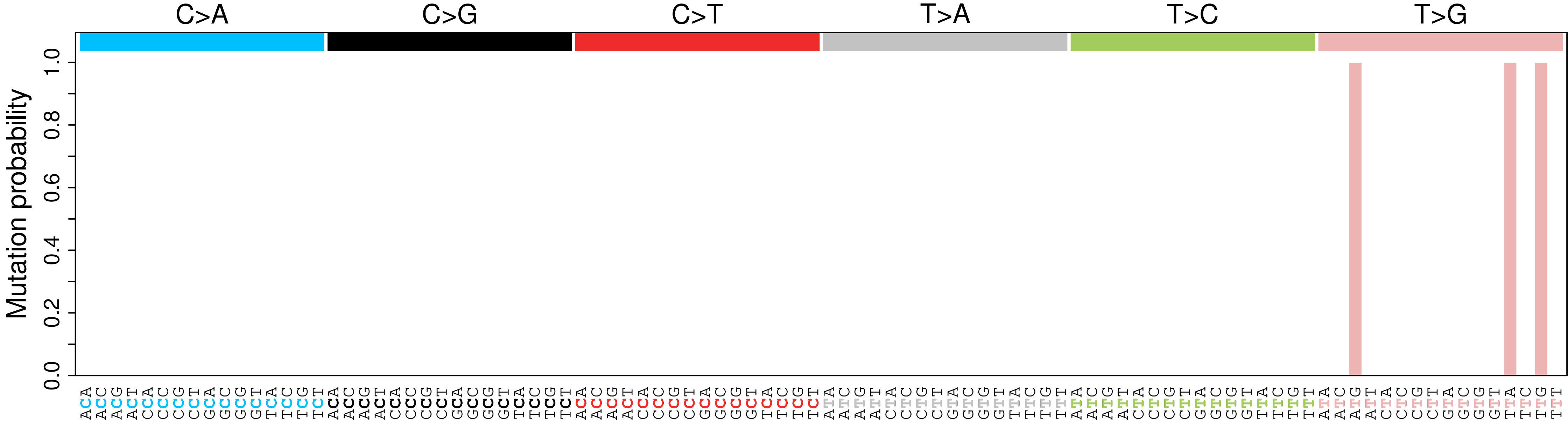
CATD0659a



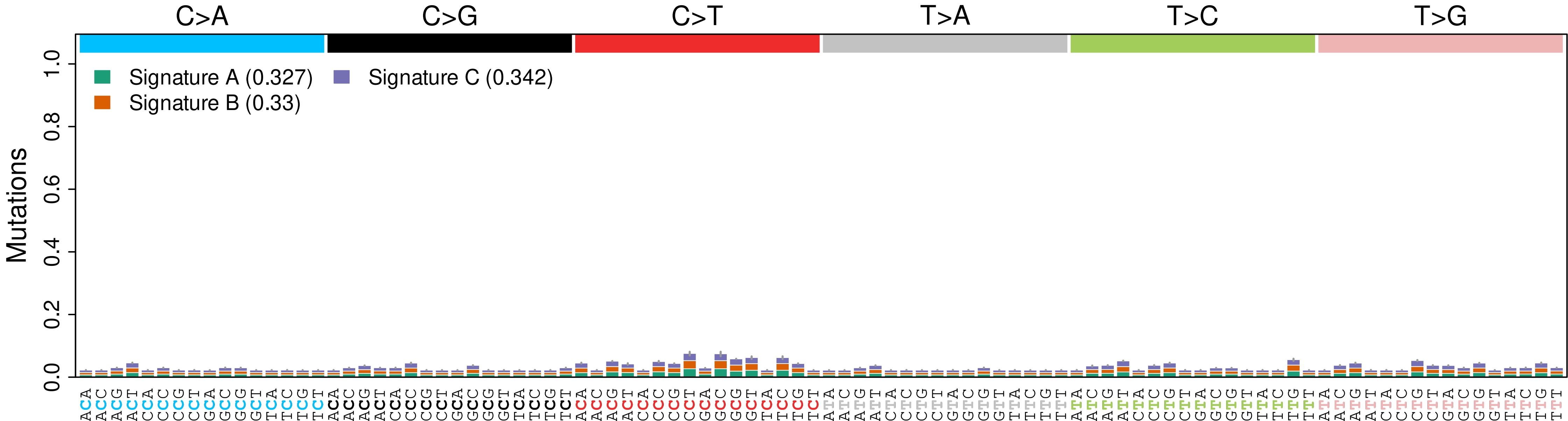
Reconstructed spectrum (cosine similarity = 0.178)



CATD0389a

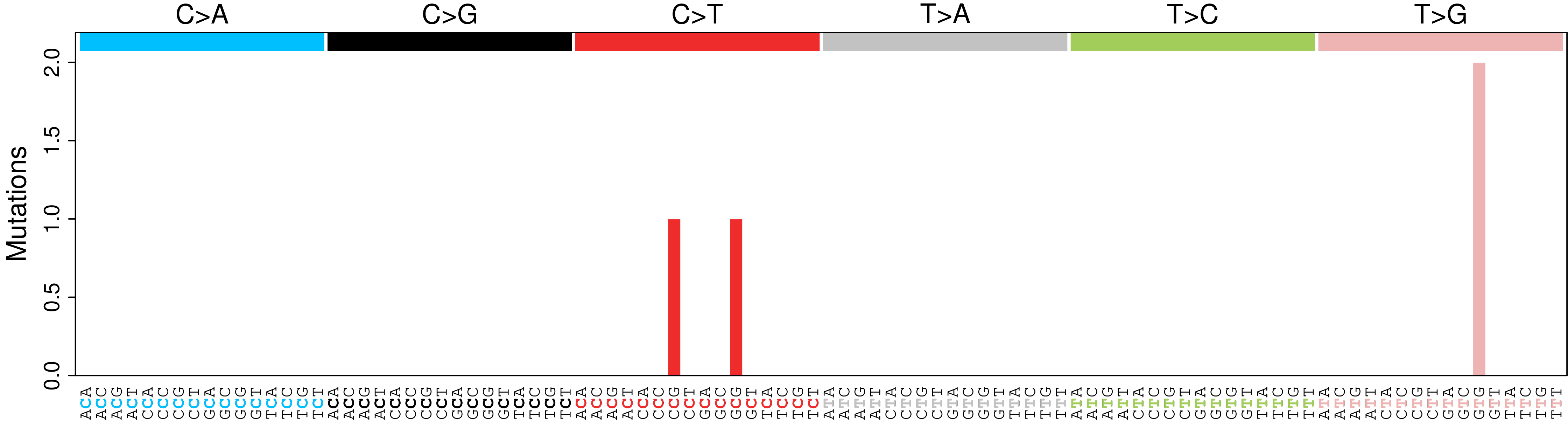


Reconstructed spectrum (cosine similarity = 0.21)

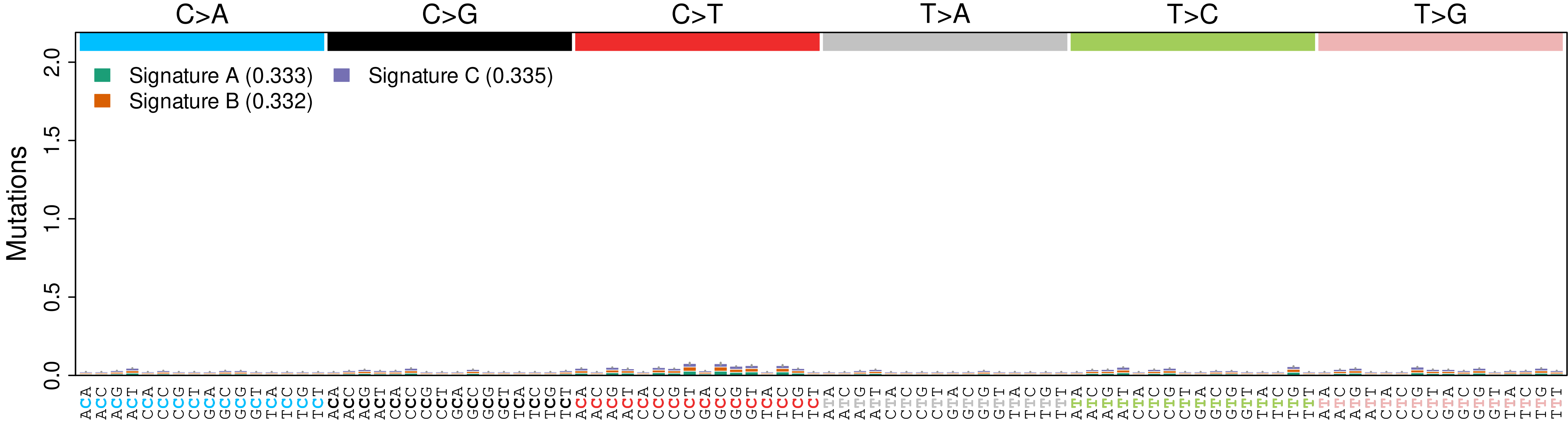




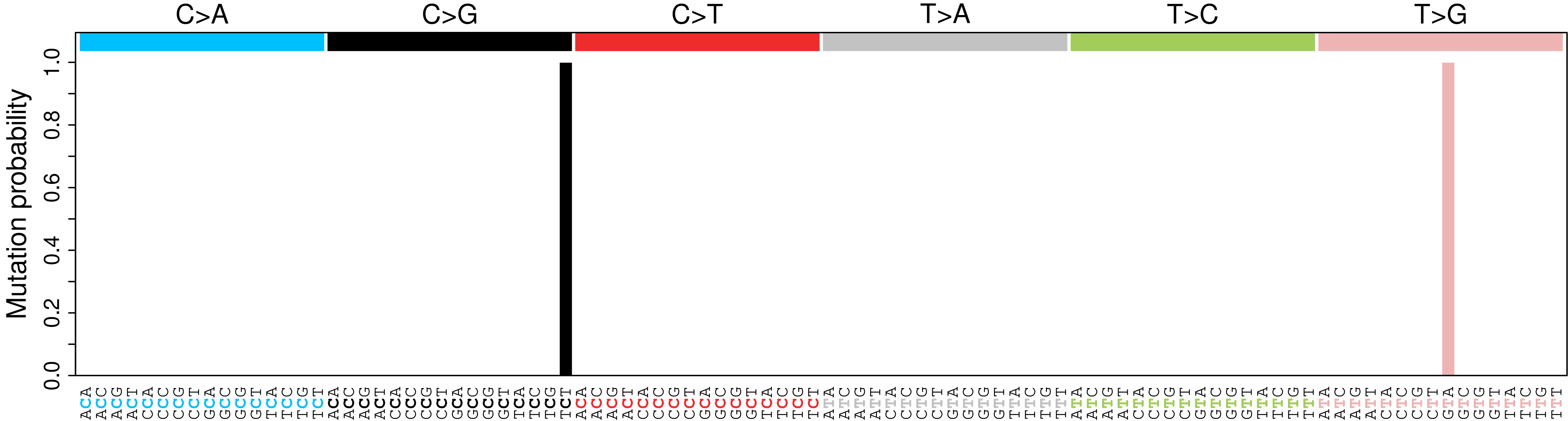
CATD0665a (4 mutations)



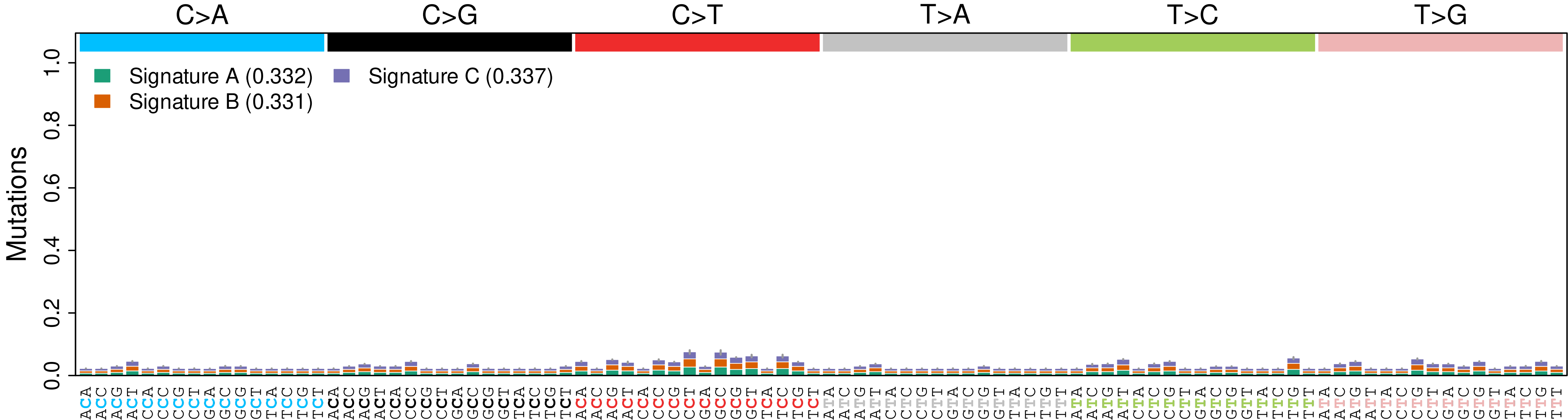
Reconstructed spectrum (cosine similarity = 0.237)



CATD0377a

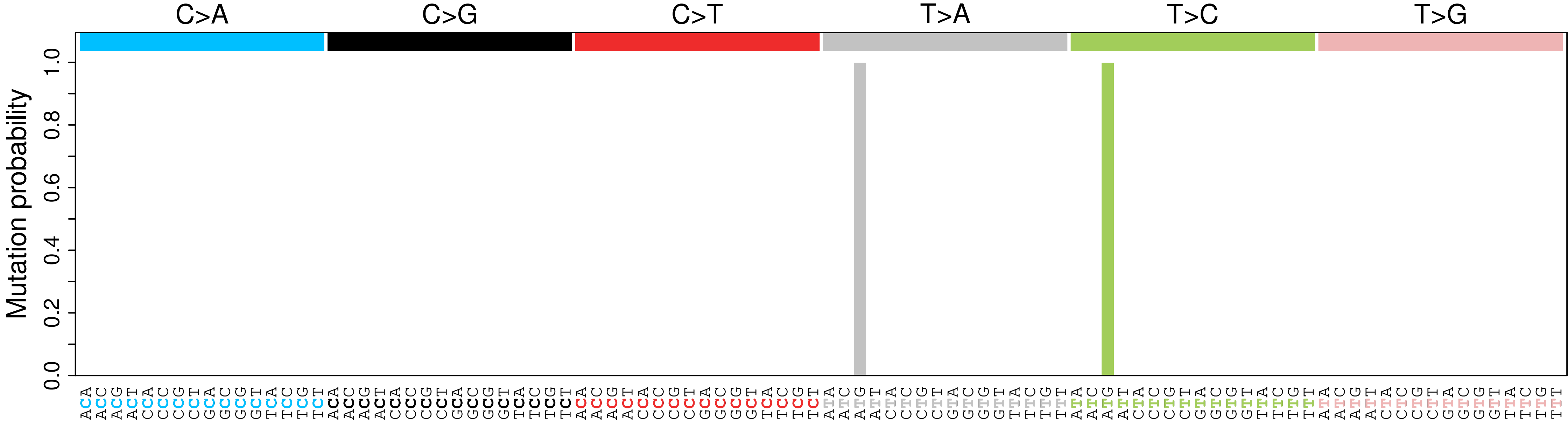


Reconstructed spectrum (cosine similarity = 0.144)

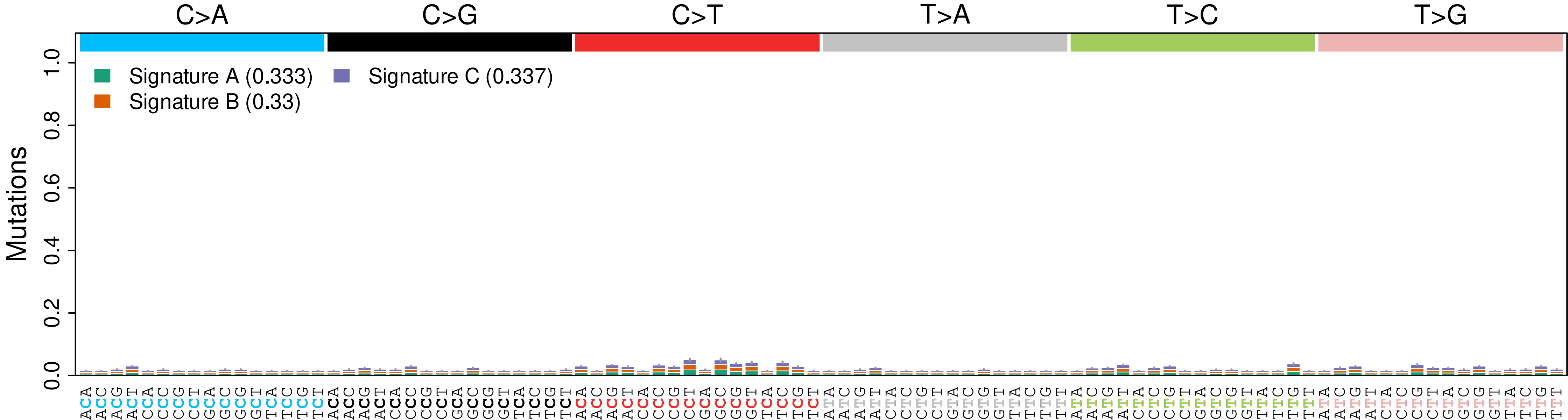




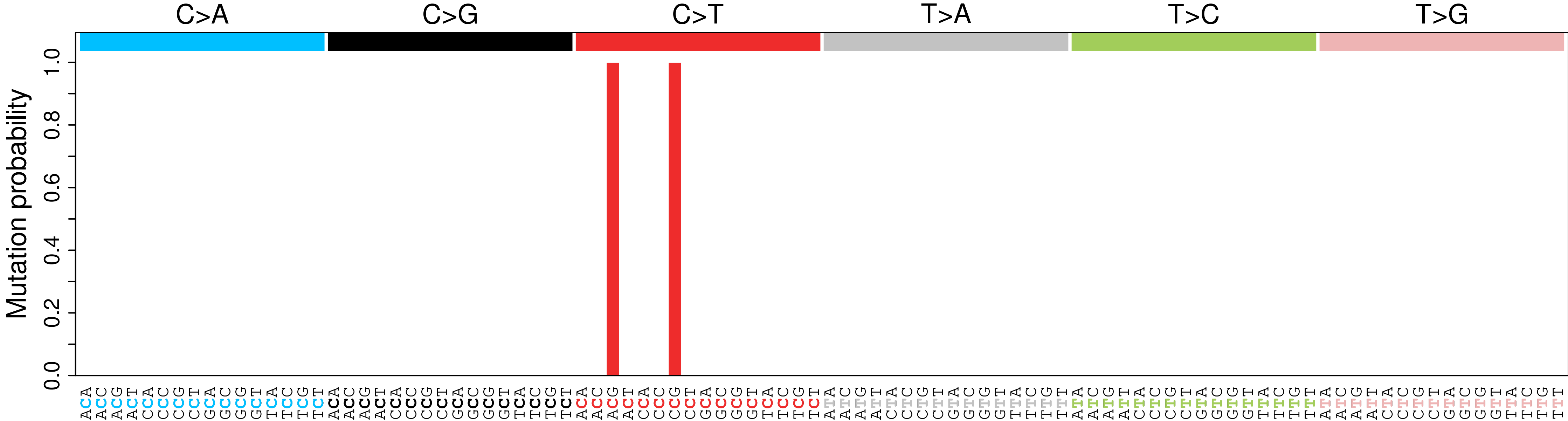
CATD0422a



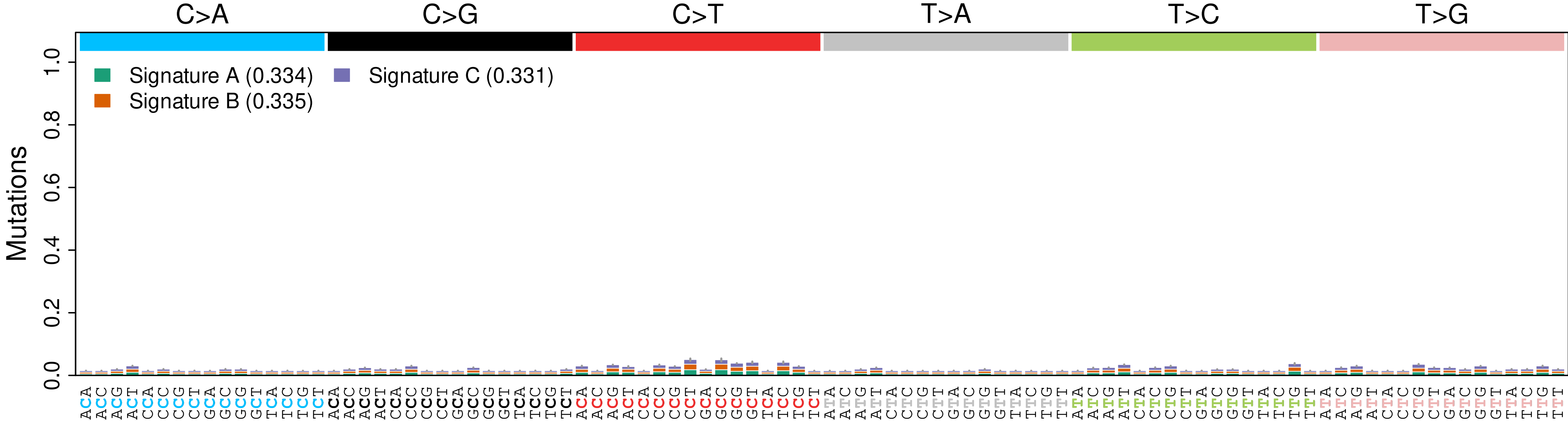
Reconstructed spectrum (cosine similarity = 0.145)



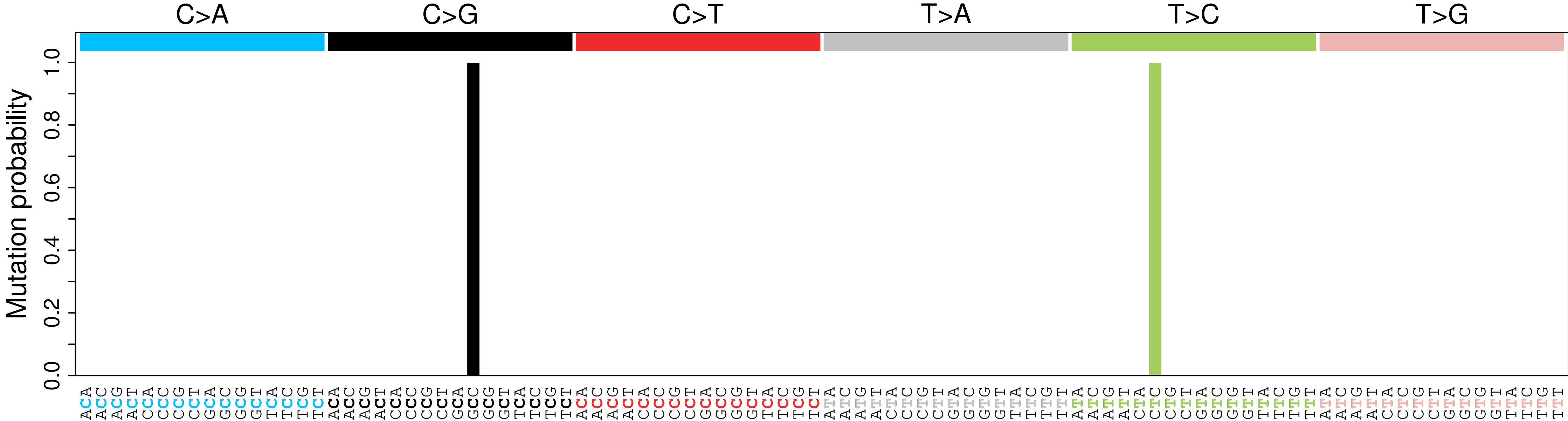
CATD0392a



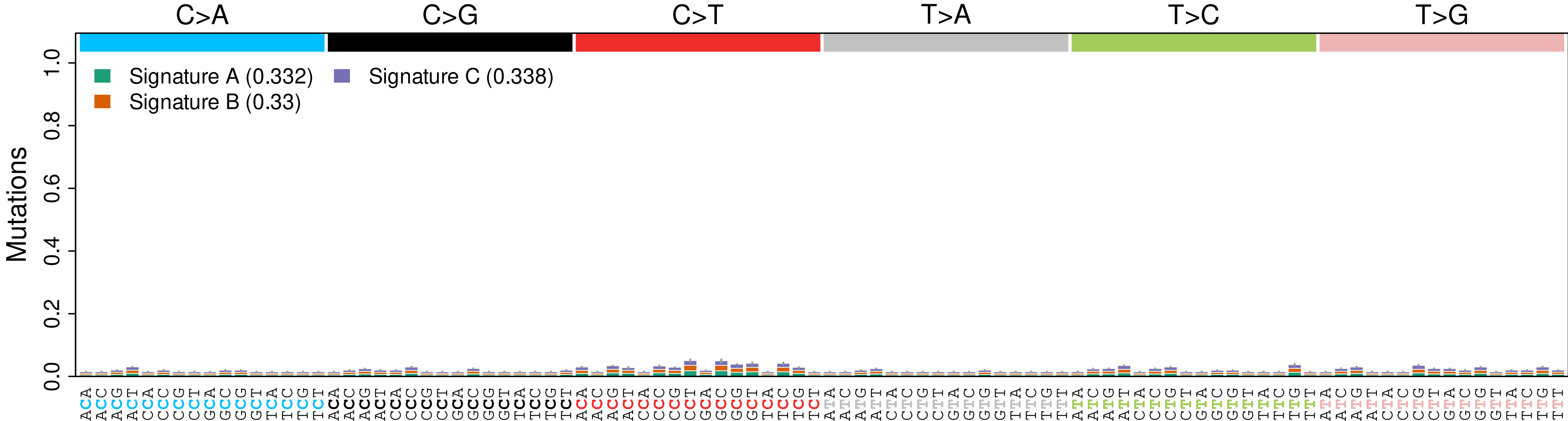
Reconstructed spectrum (cosine similarity = 0.203)



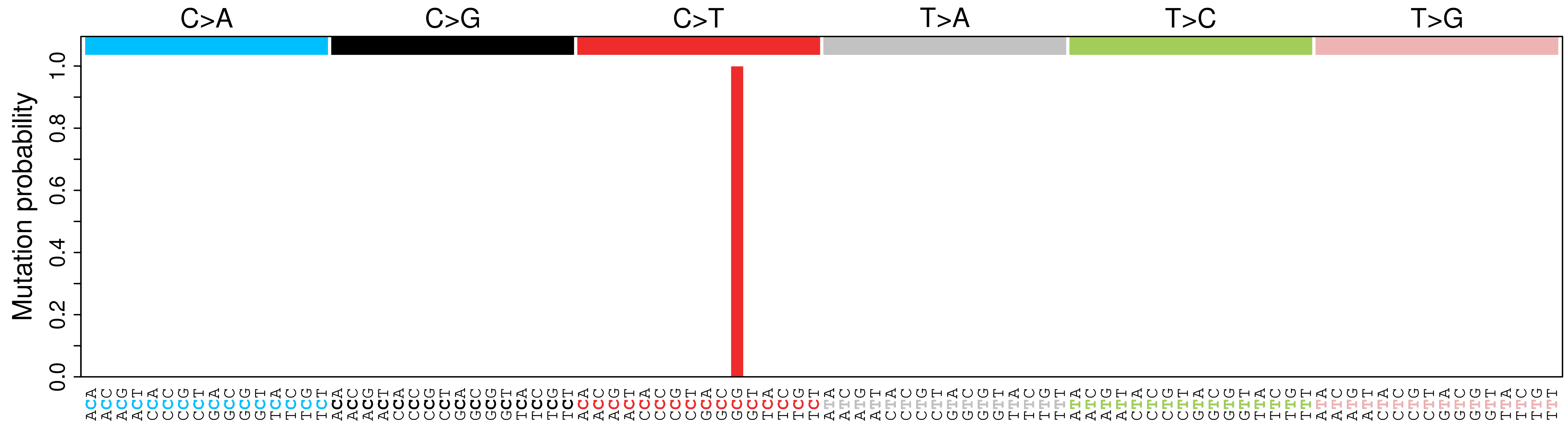
CATD0661a



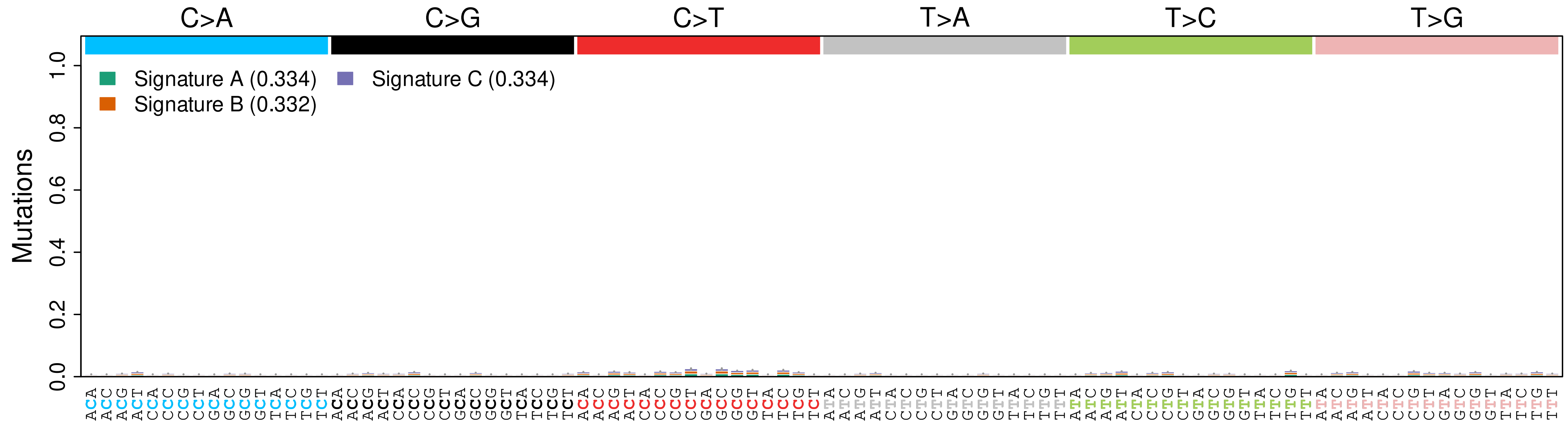
Reconstructed spectrum (cosine similarity = 0.161)



**CATD0424a**

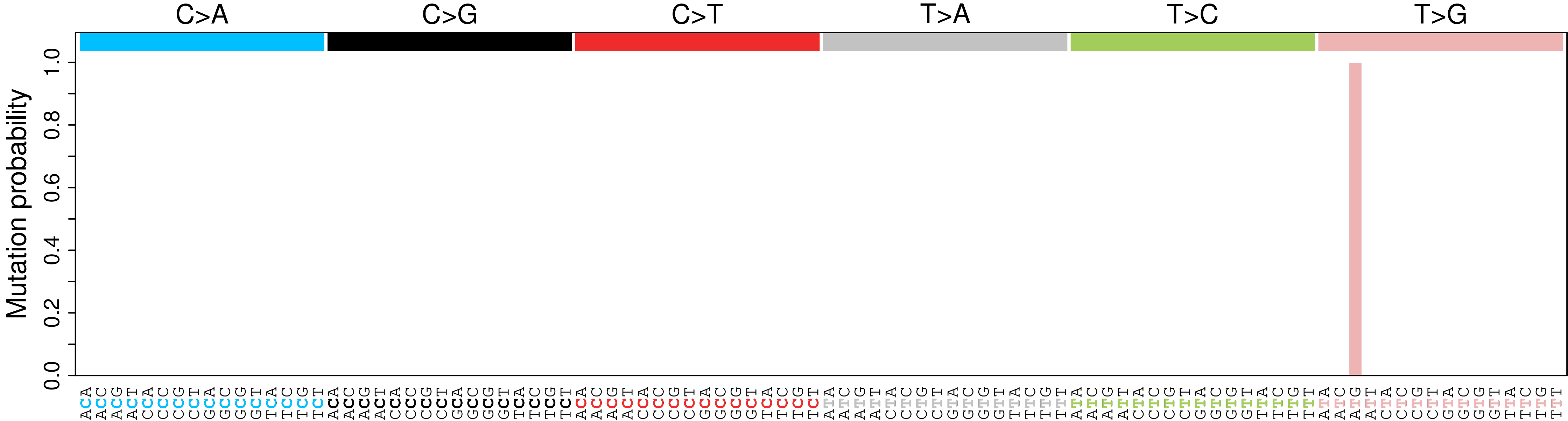


### Reconstructed spectrum (cosine similarity = 0.177)

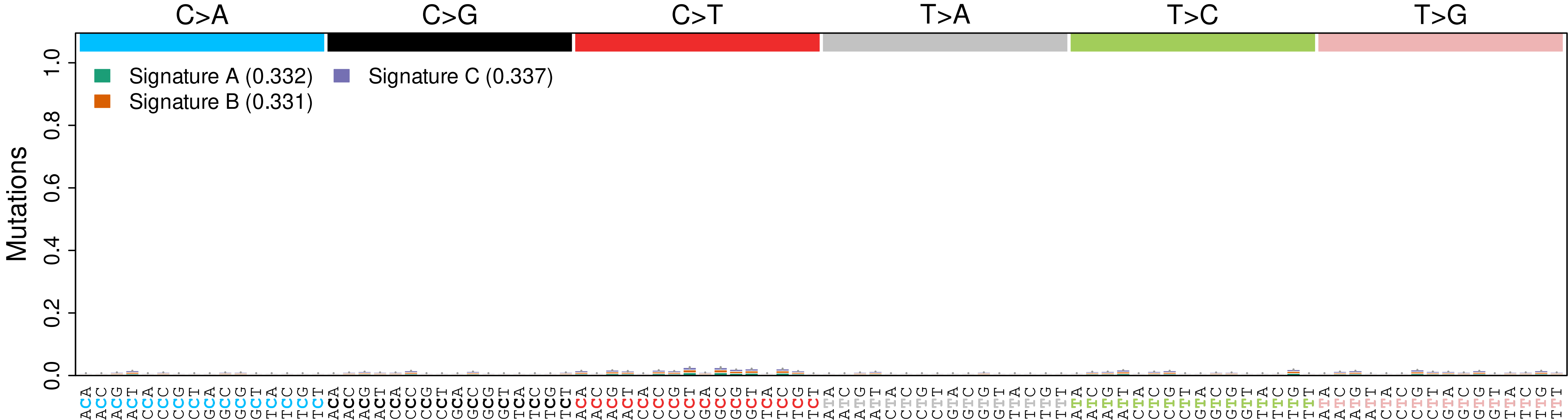




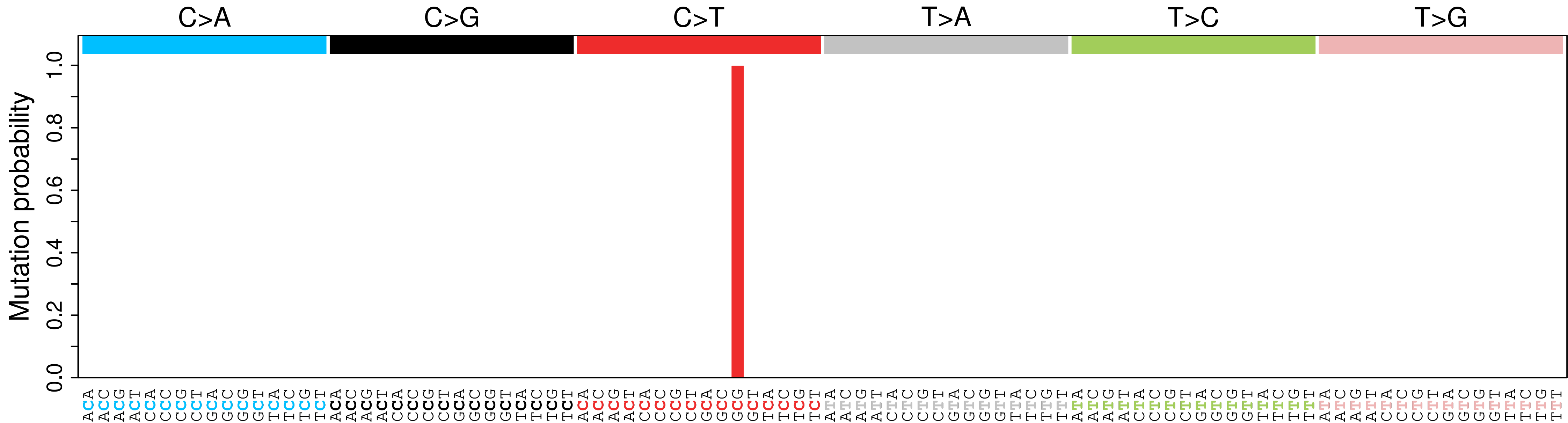
CATD0383a



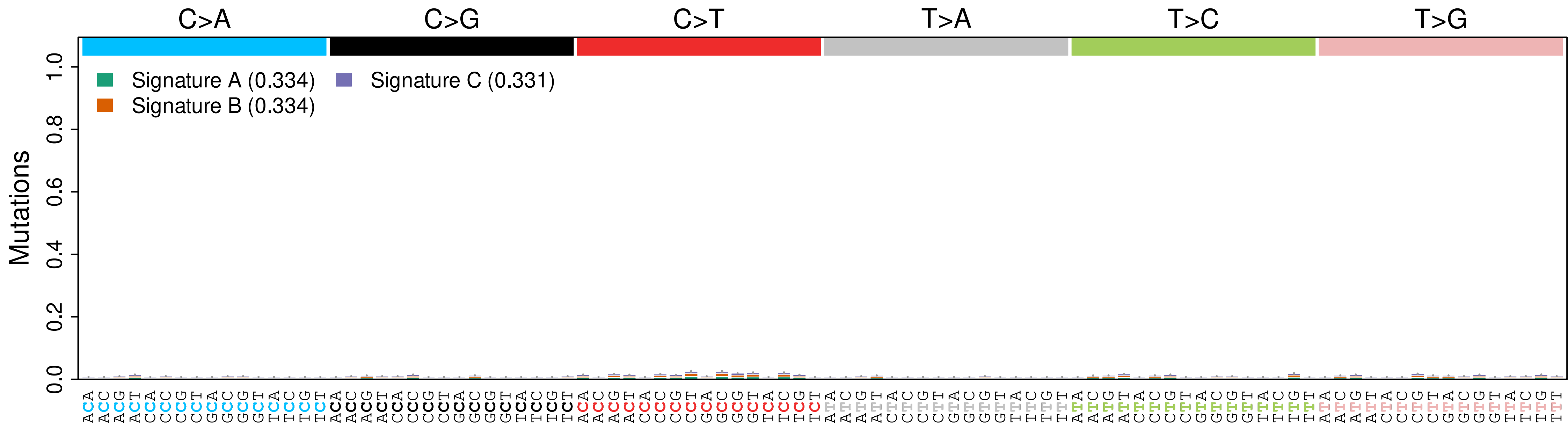
Reconstructed spectrum (cosine similarity = 0.136)



CATD0385a

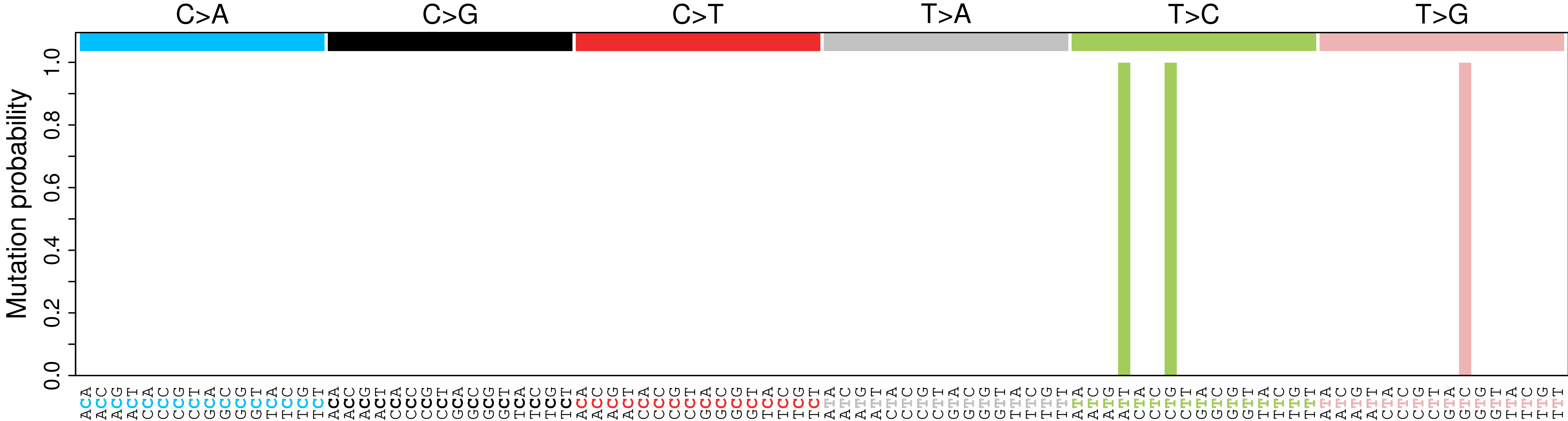


Reconstructed spectrum (cosine similarity = 0.177)

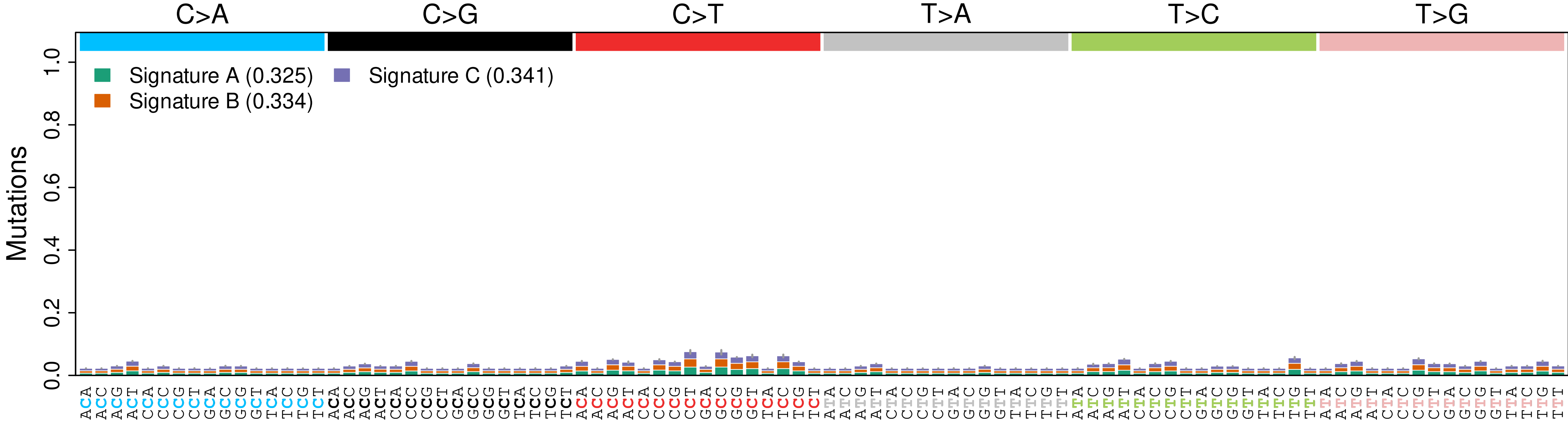




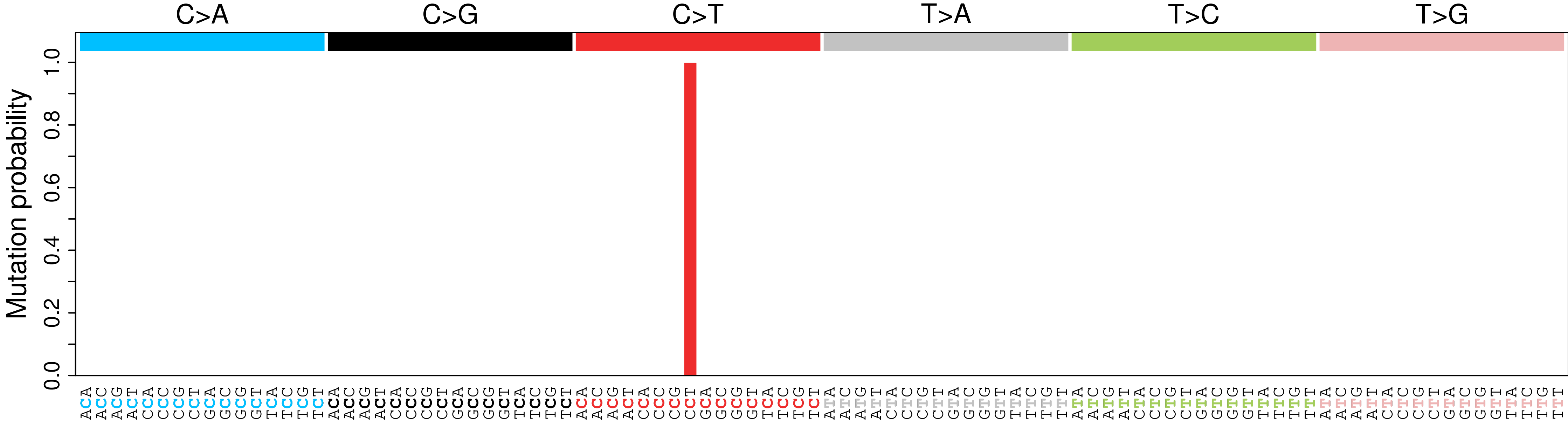
CATD0382a



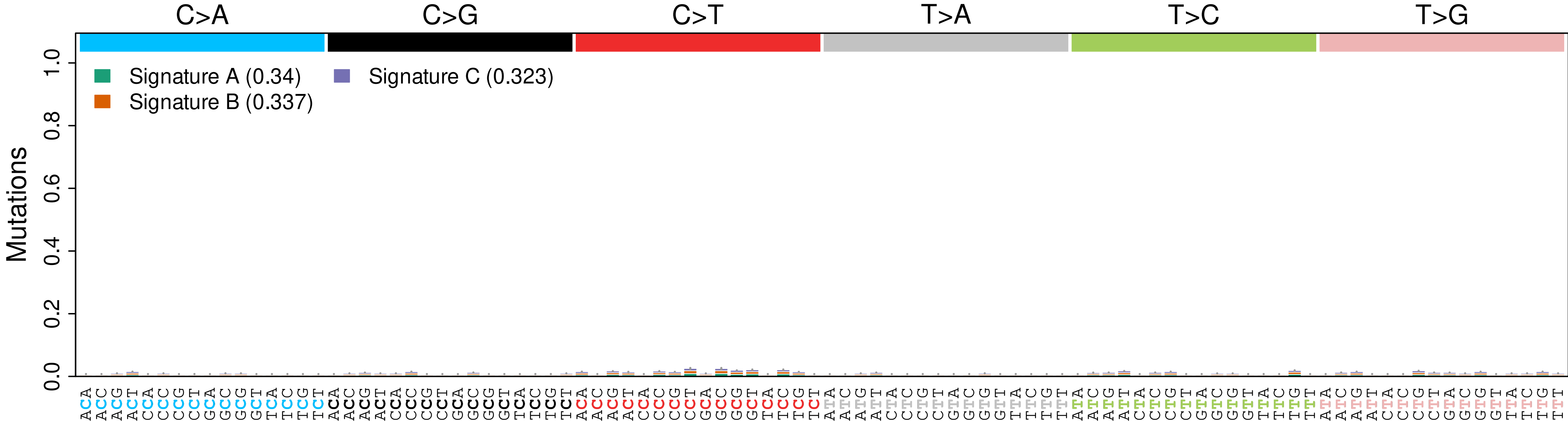
Reconstructed spectrum (cosine similarity = 0.222)



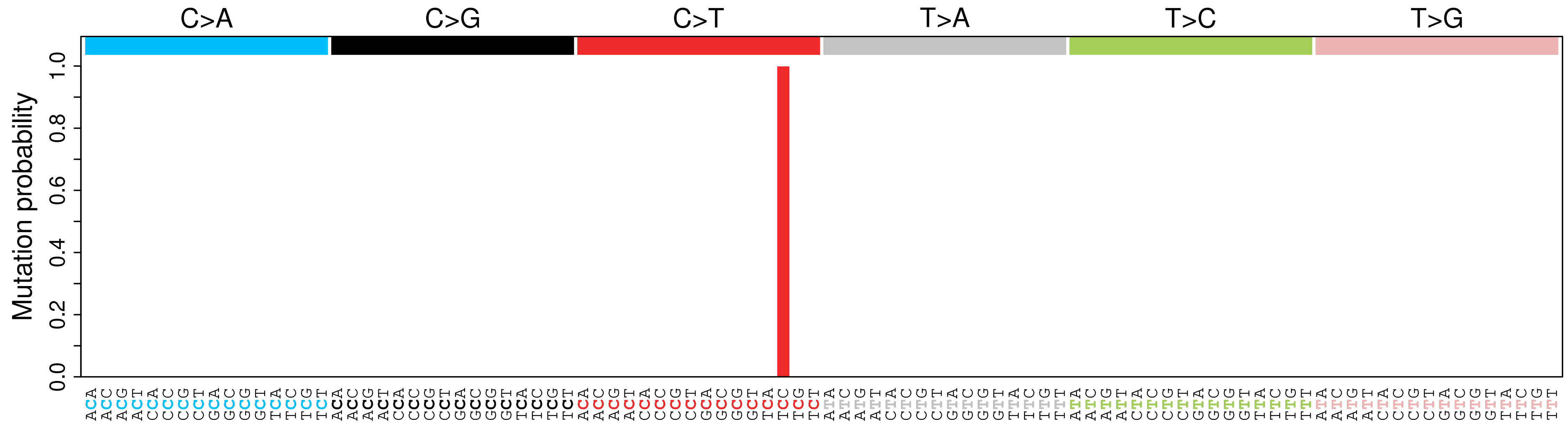
CATD0660a



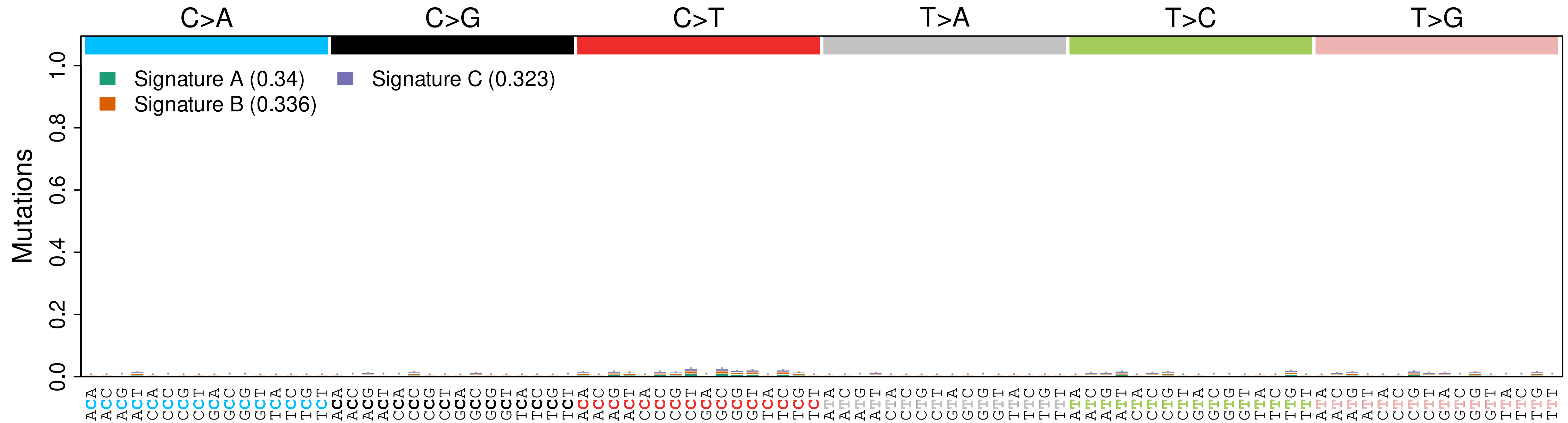
Reconstructed spectrum (cosine similarity = 0.23)



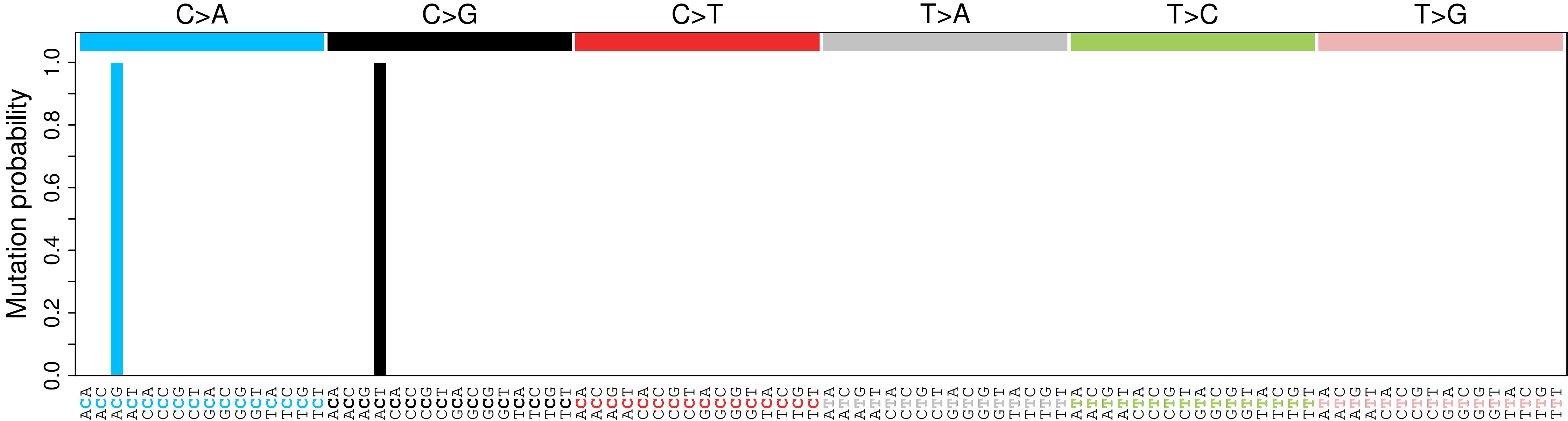
**CATD0437a**



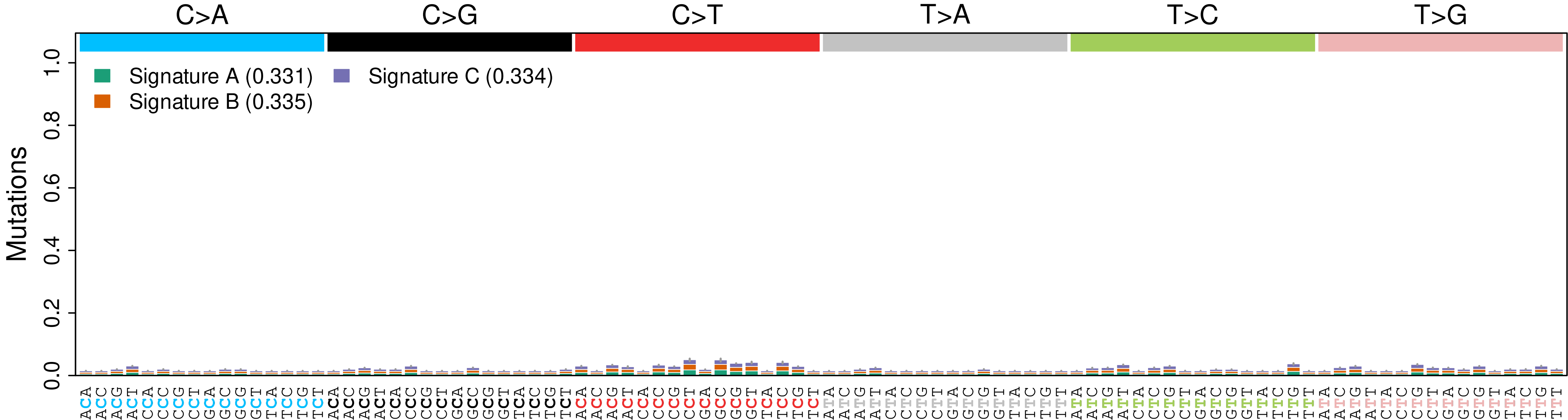
### Reconstructed spectrum (cosine similarity = 0.19)



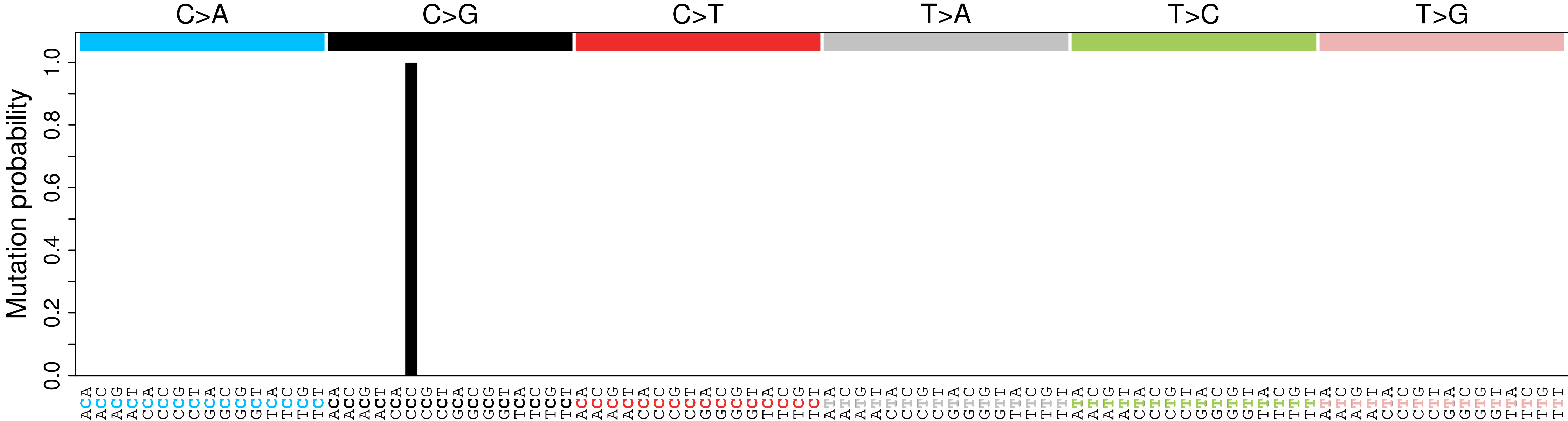
CATD0439a



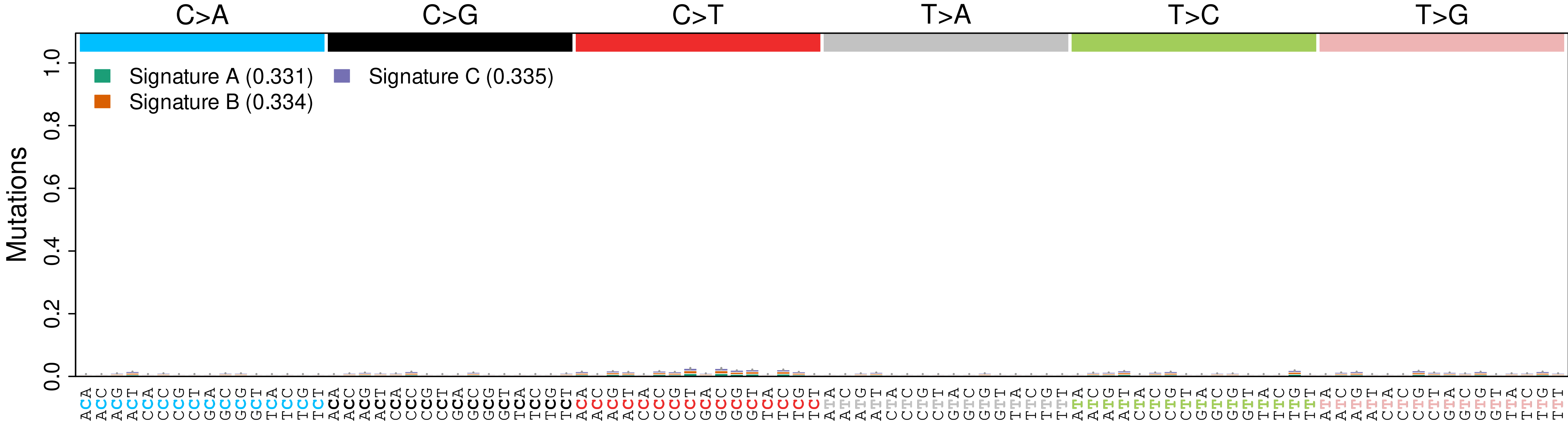
Reconstructed spectrum (cosine similarity = 0.129)



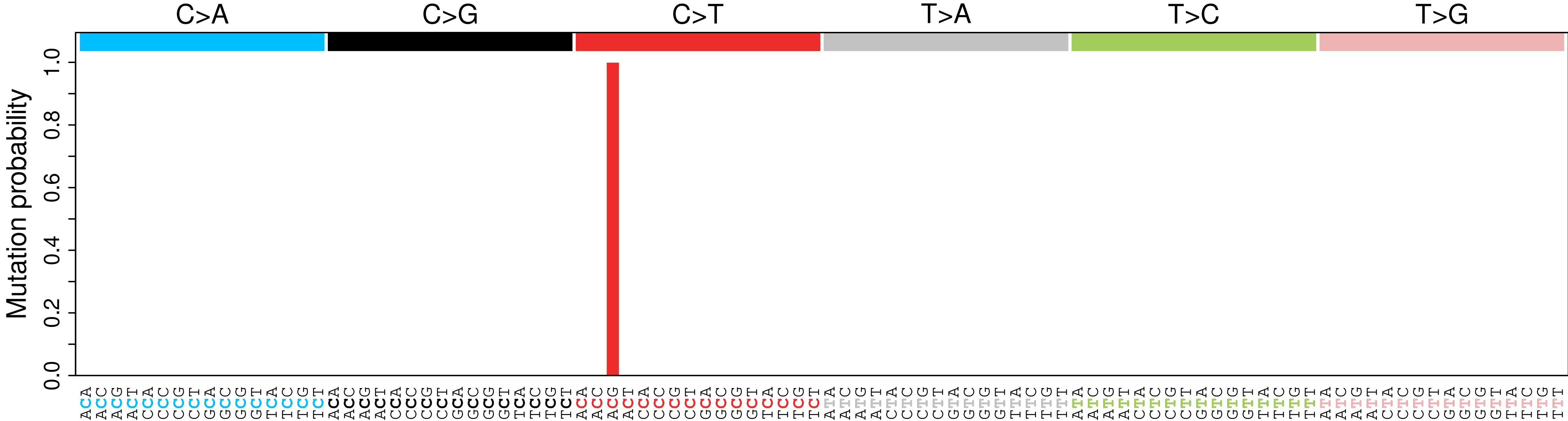
CATD0663a



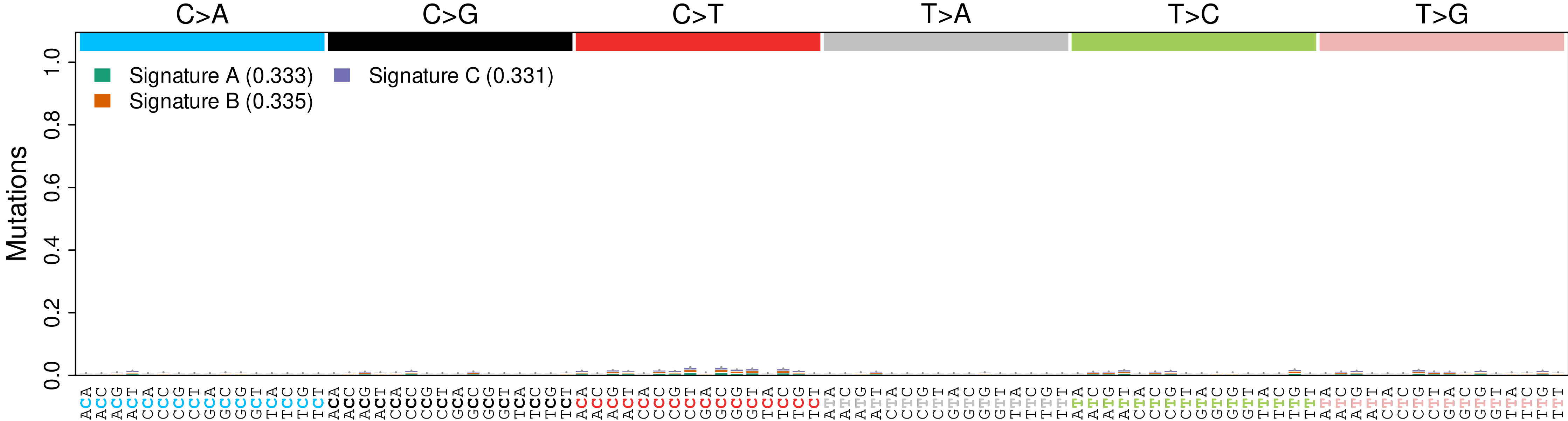
Reconstructed spectrum (cosine similarity = 0.136)



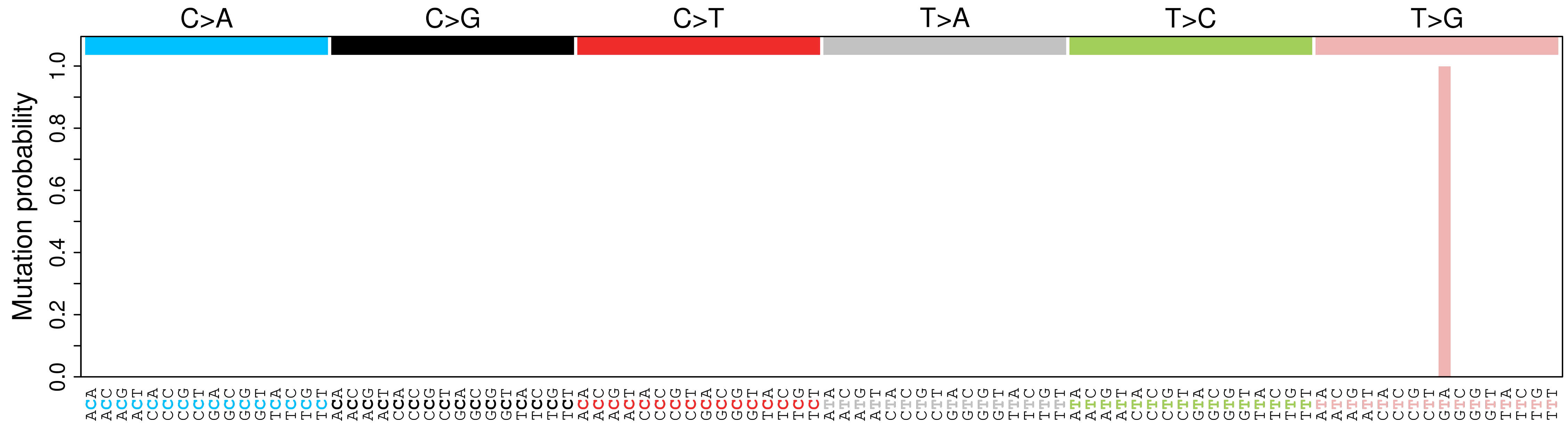
CATD0379a



Reconstructed spectrum (cosine similarity = 0.155)



**CATD0397a**



### Reconstructed spectrum (cosine similarity = 0.113)

