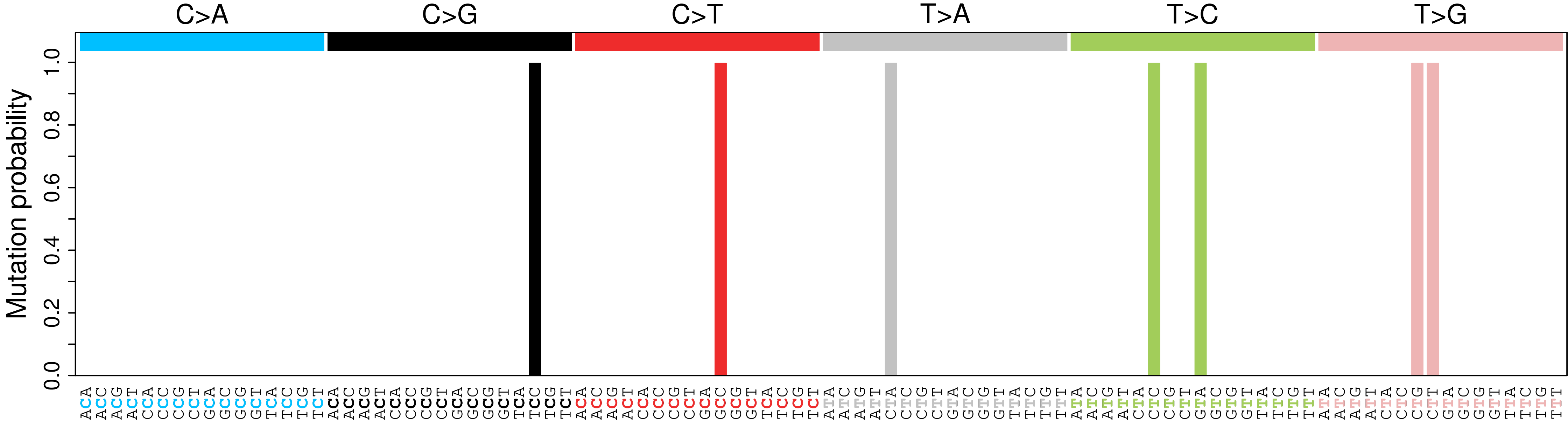
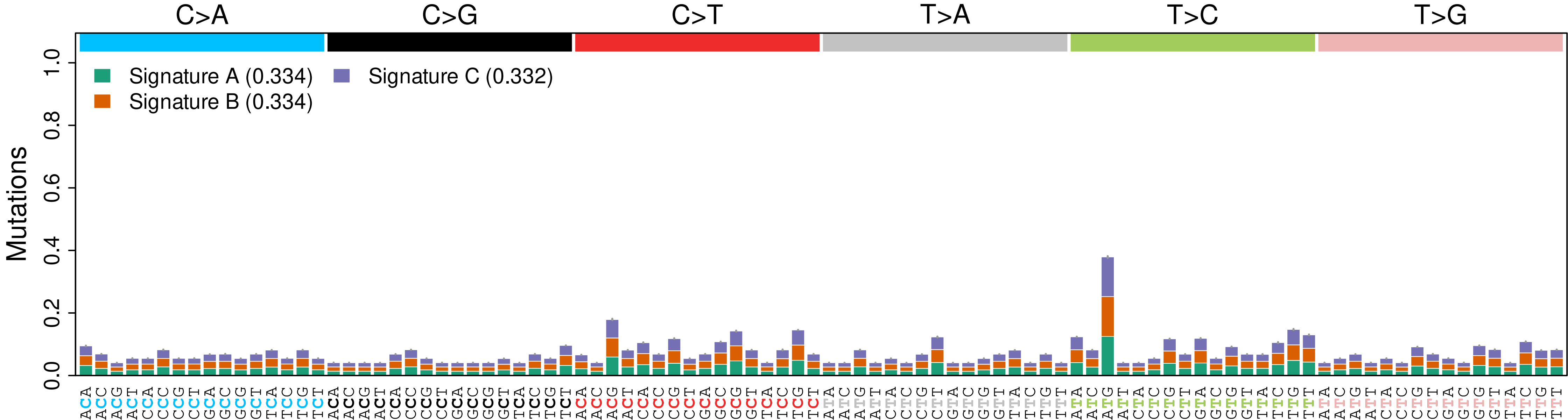


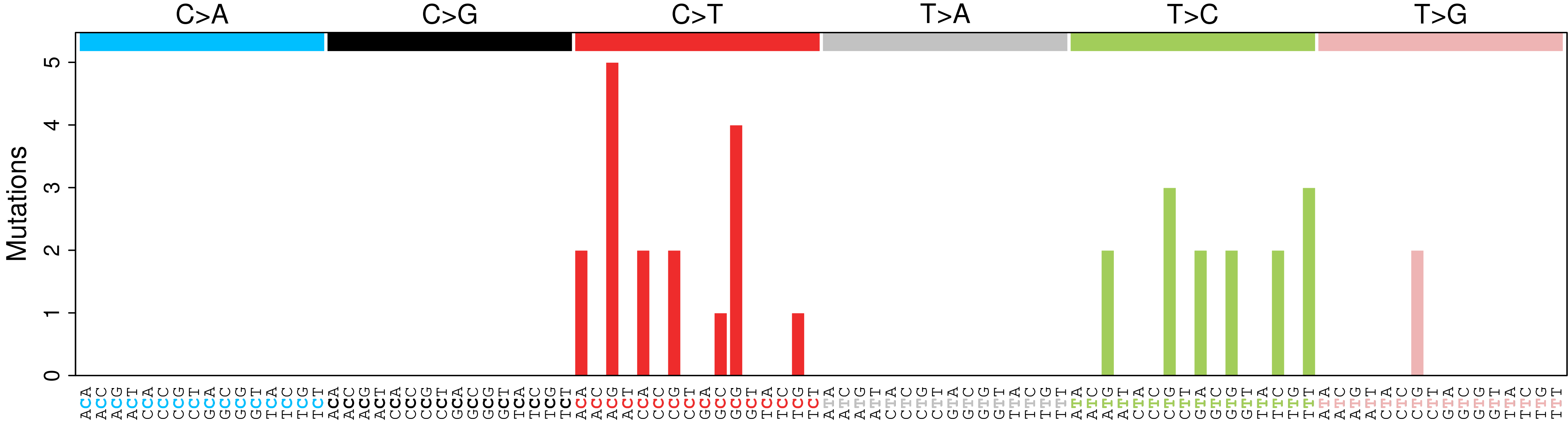
CATD0507a



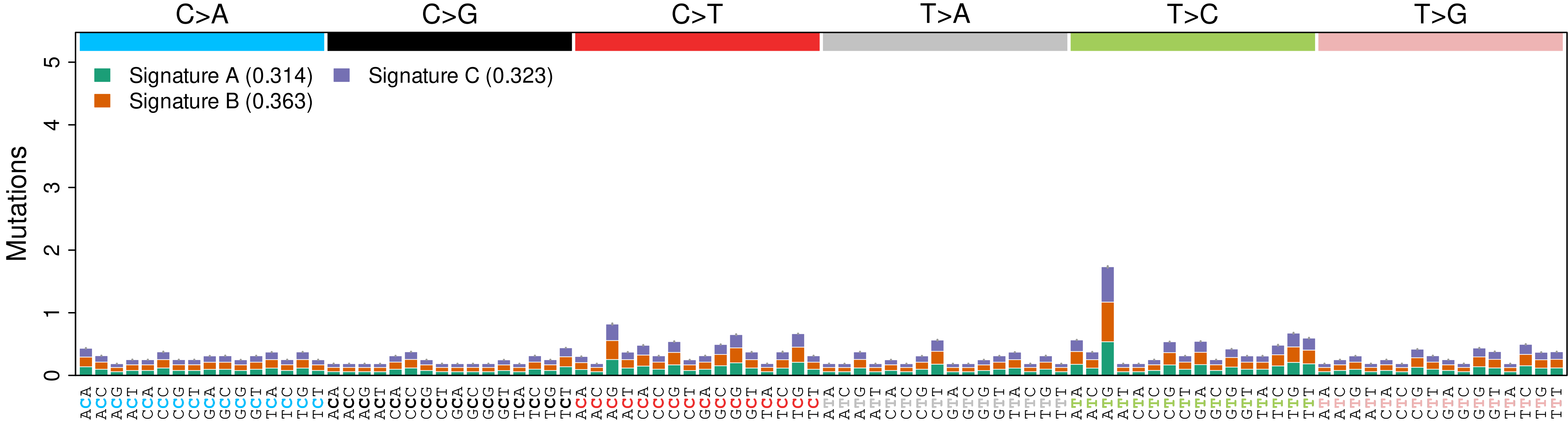
Reconstructed spectrum (cosine similarity = 0.257)



CATD0500a (33 mutations)



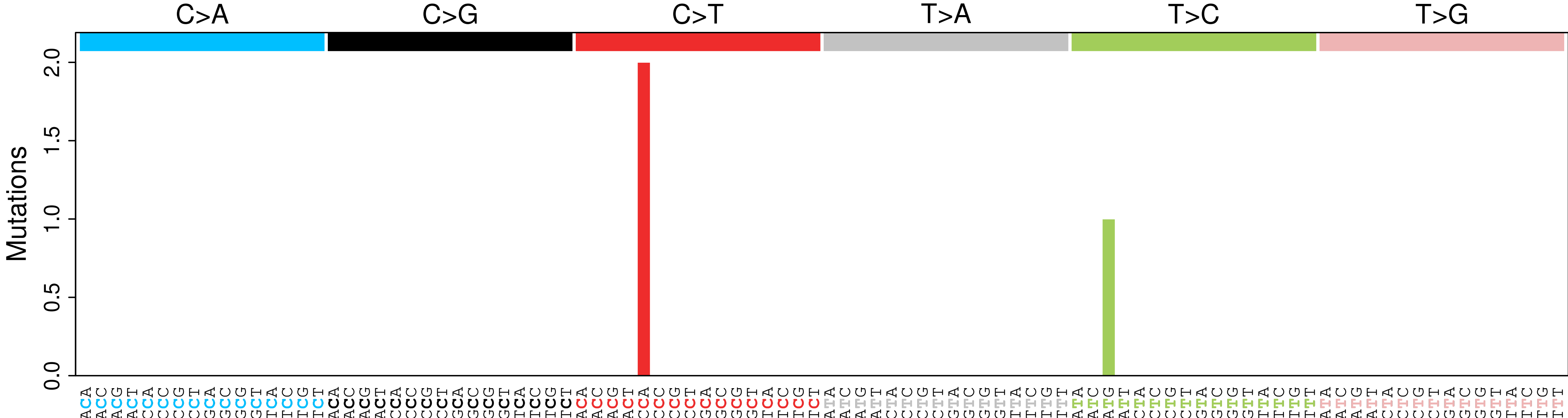
Reconstructed spectrum (cosine similarity = 0.577)



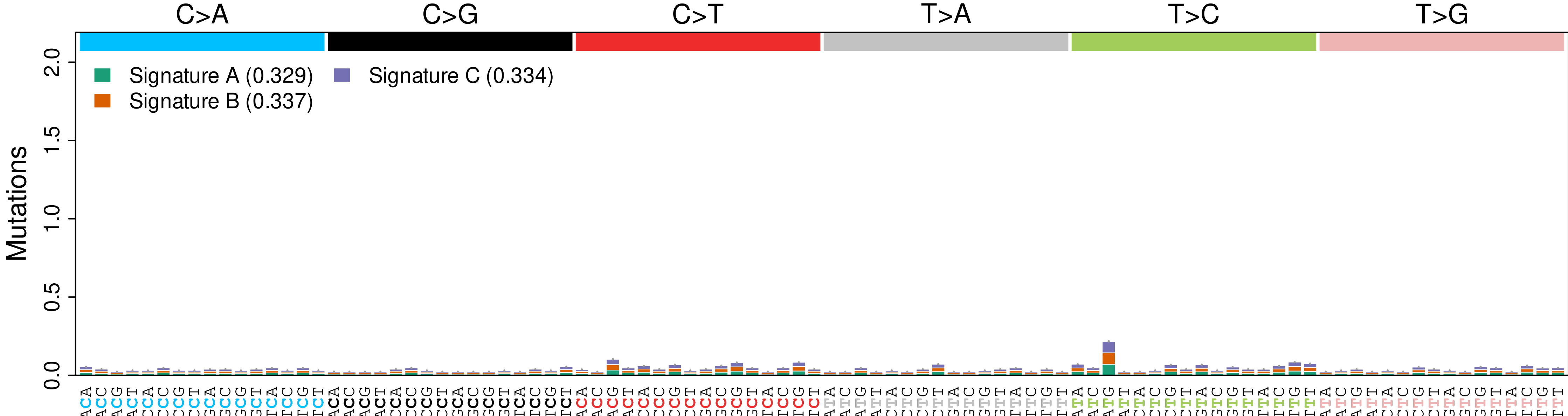




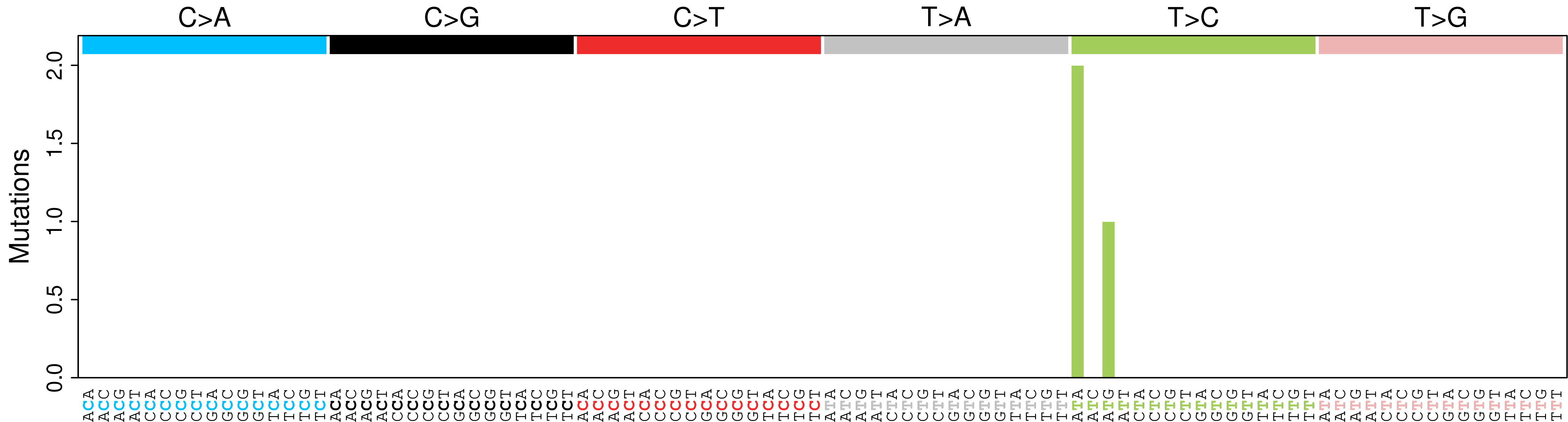
## CATD0480a (3 mutations)



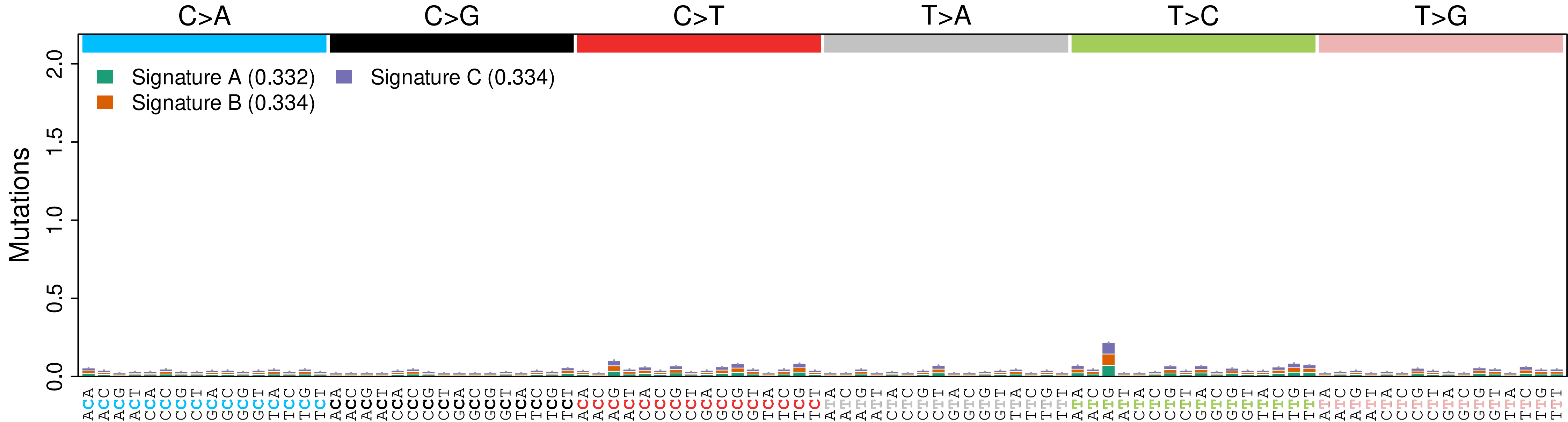
### Reconstructed spectrum (cosine similarity = 0.318)



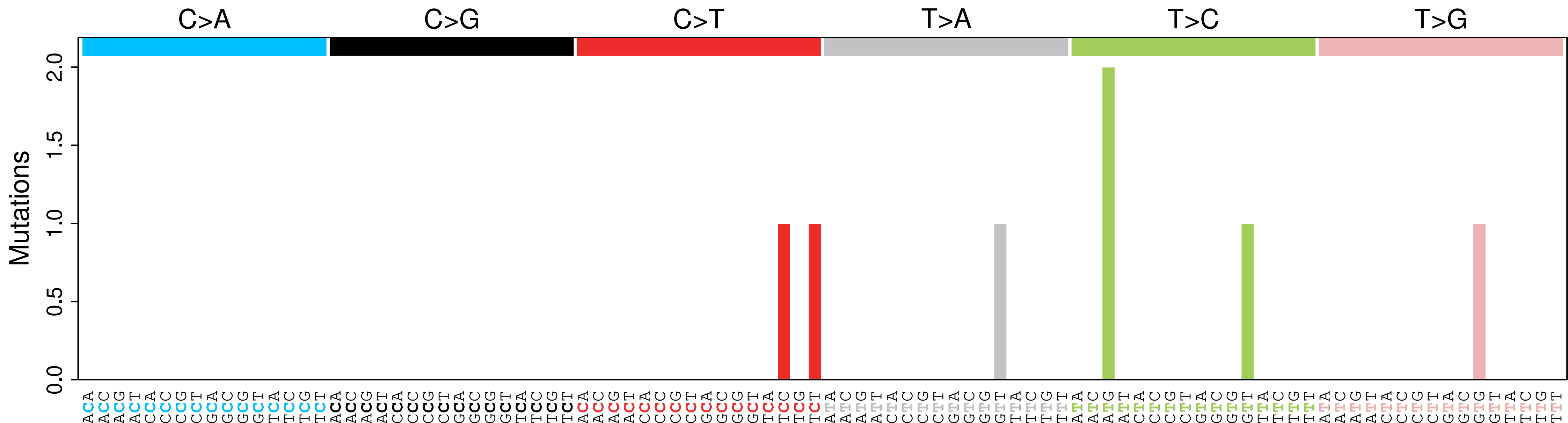
CATD0491a (3 mutations)



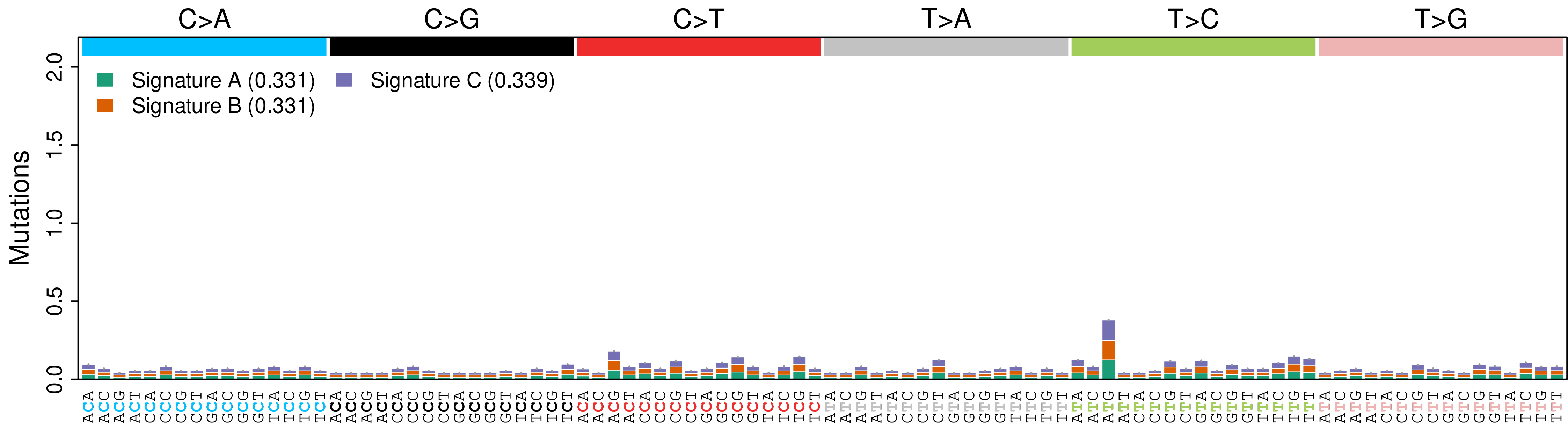
Reconstructed spectrum (cosine similarity = 0.338)



CATD0689a (7 mutations)

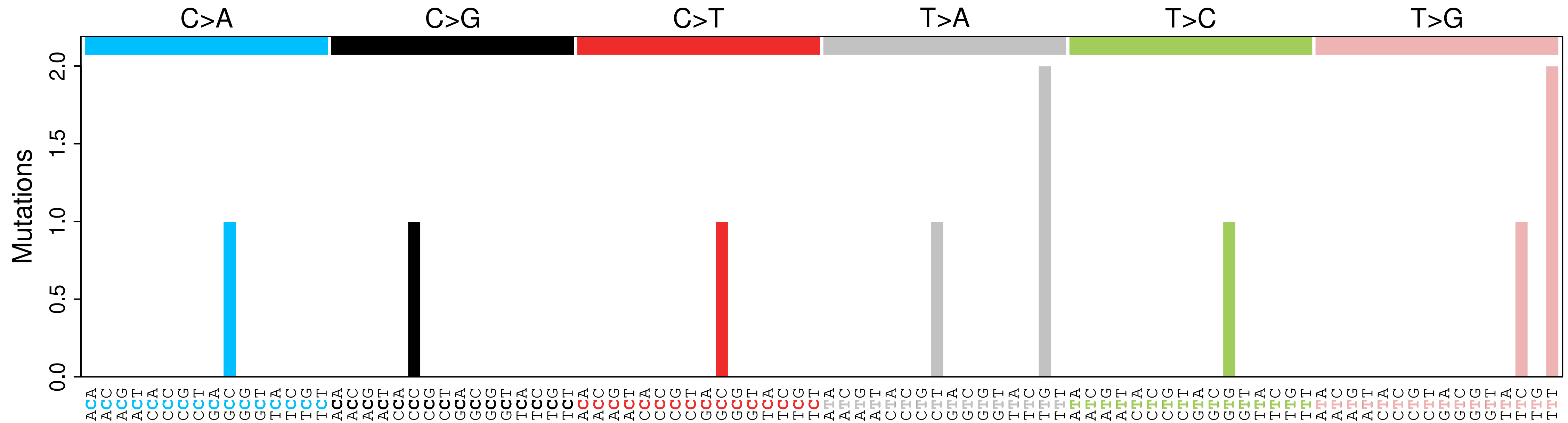


Reconstructed spectrum (cosine similarity = 0.459)

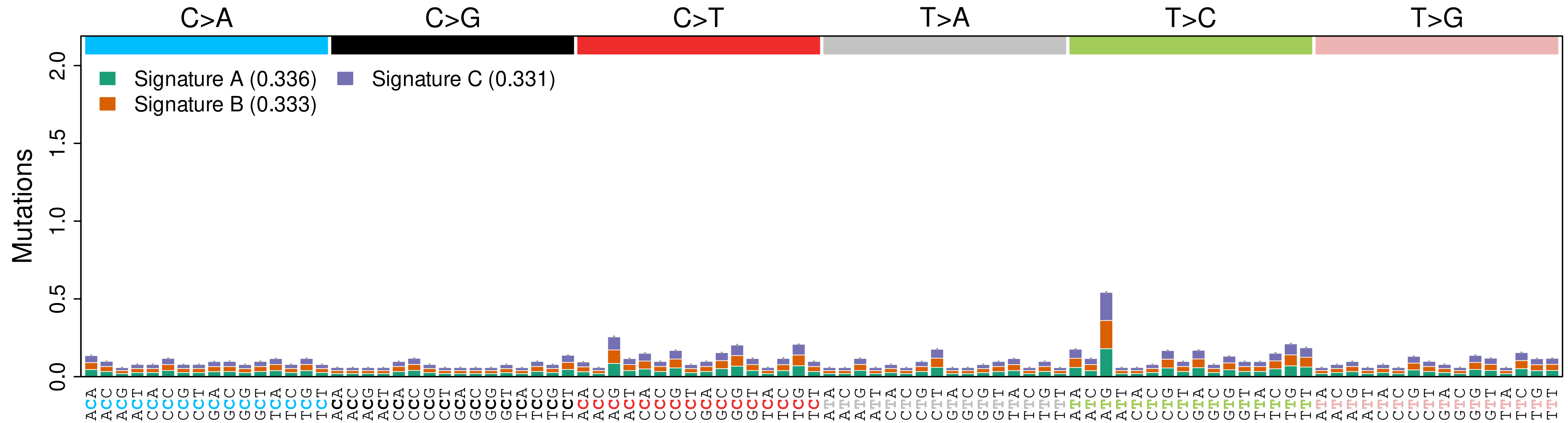




## CATD0740a (10 mutations)

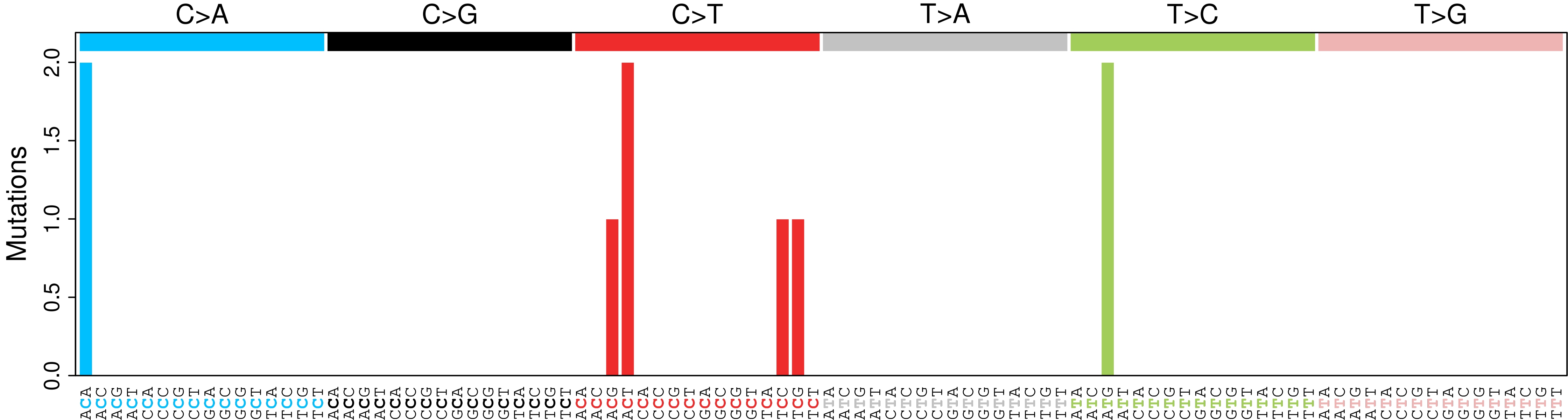


### Reconstructed spectrum (cosine similarity = 0.285)

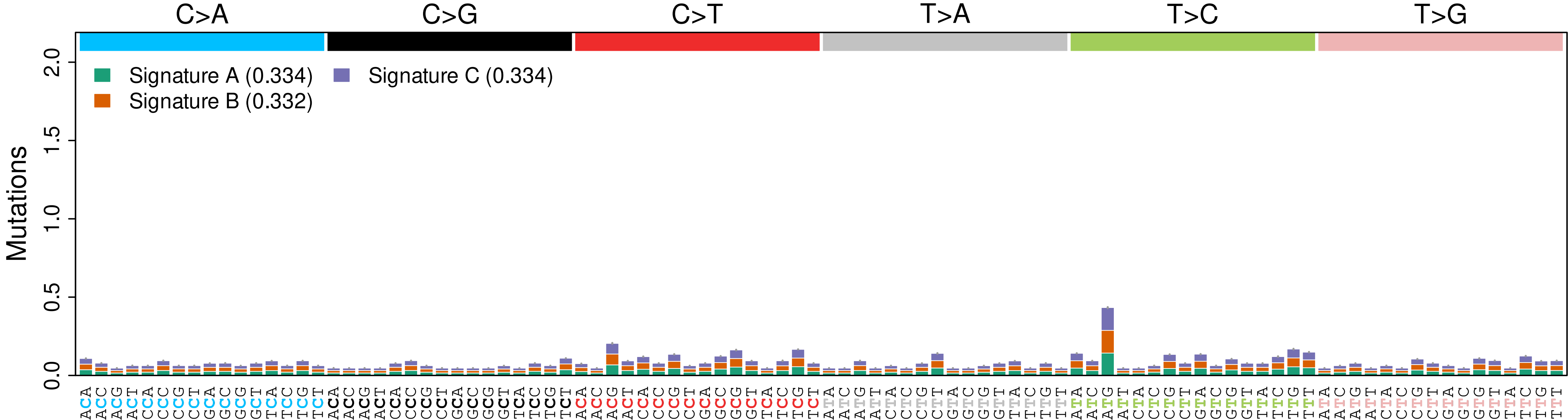




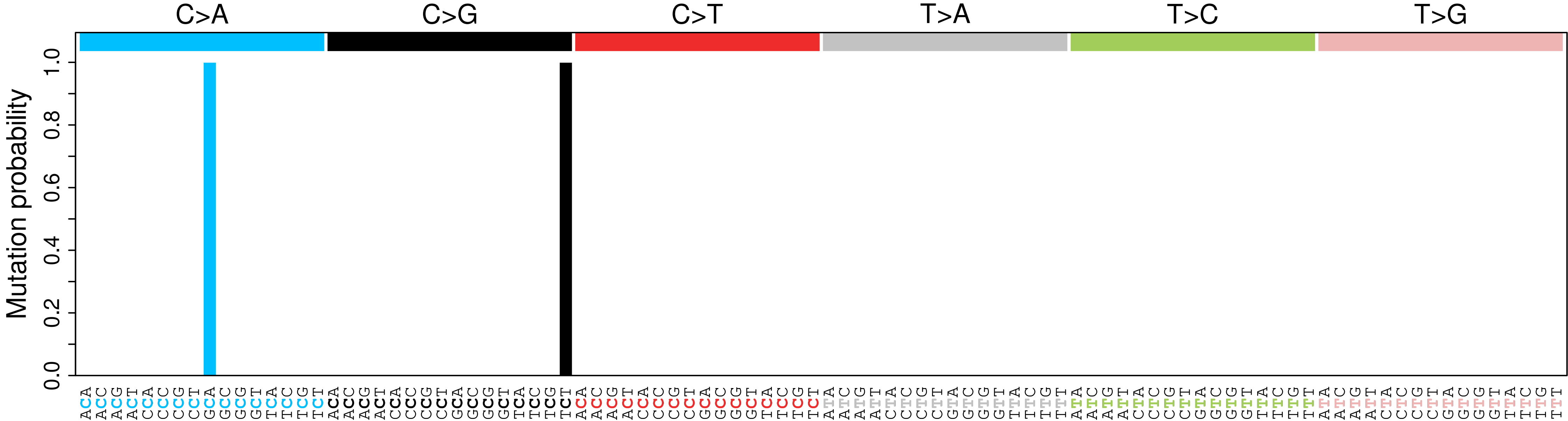
CATD0701a (9 mutations)



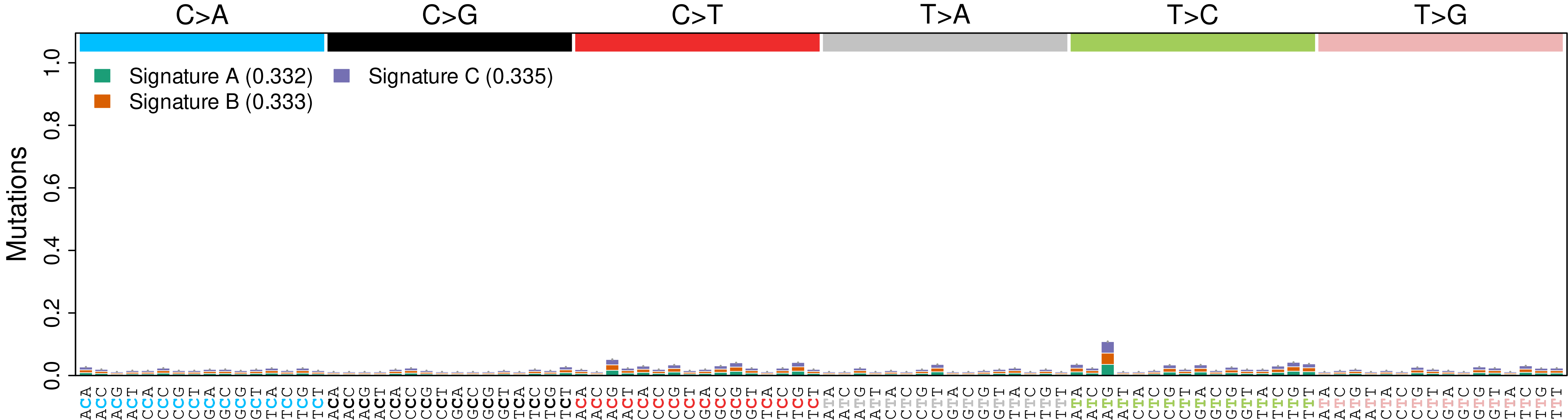
Reconstructed spectrum (cosine similarity = 0.472)



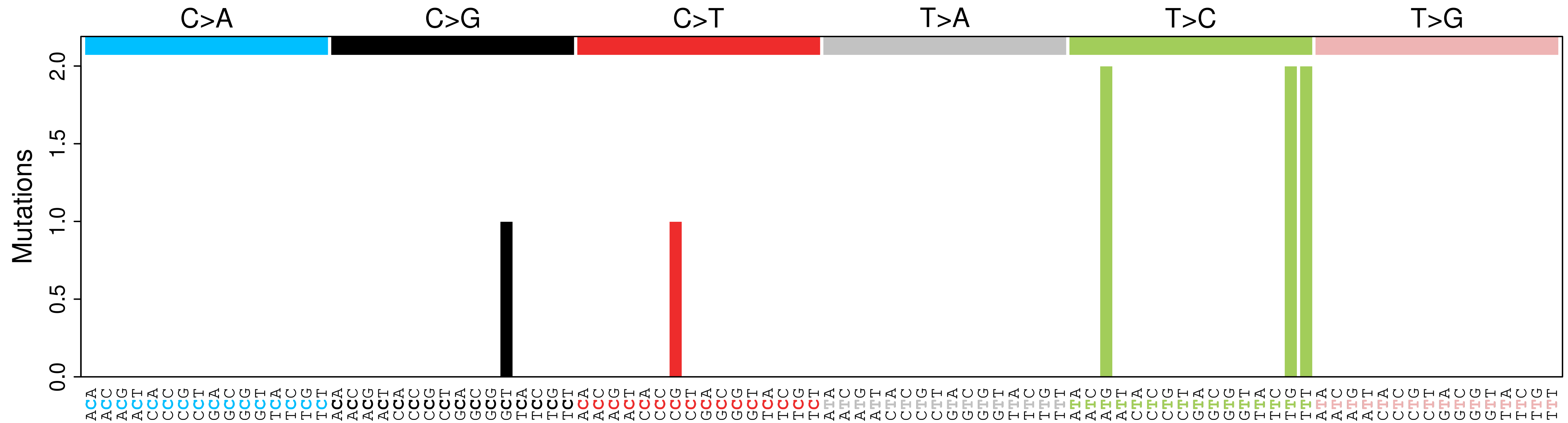
CATD0495a



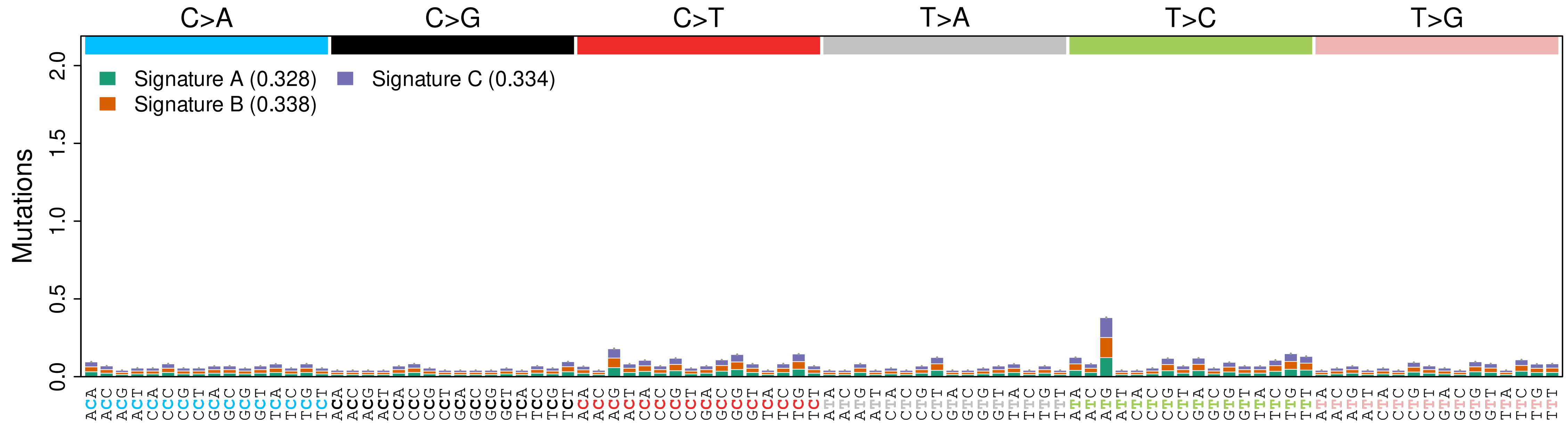
Reconstructed spectrum (cosine similarity = 0.14)



### CATD0702a (8 mutations)



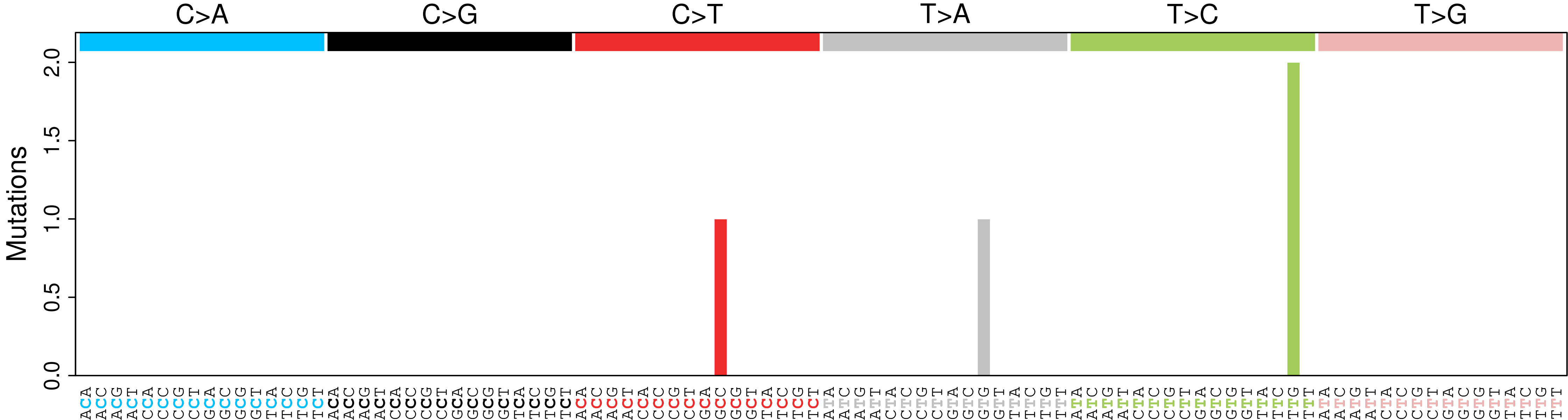
### Reconstructed spectrum (cosine similarity = 0.479)



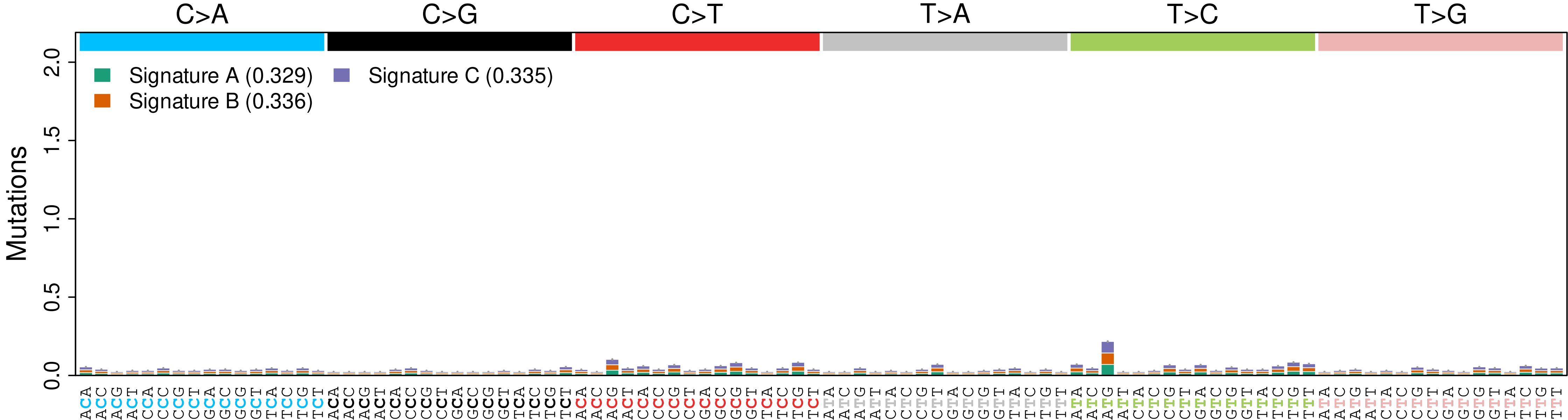




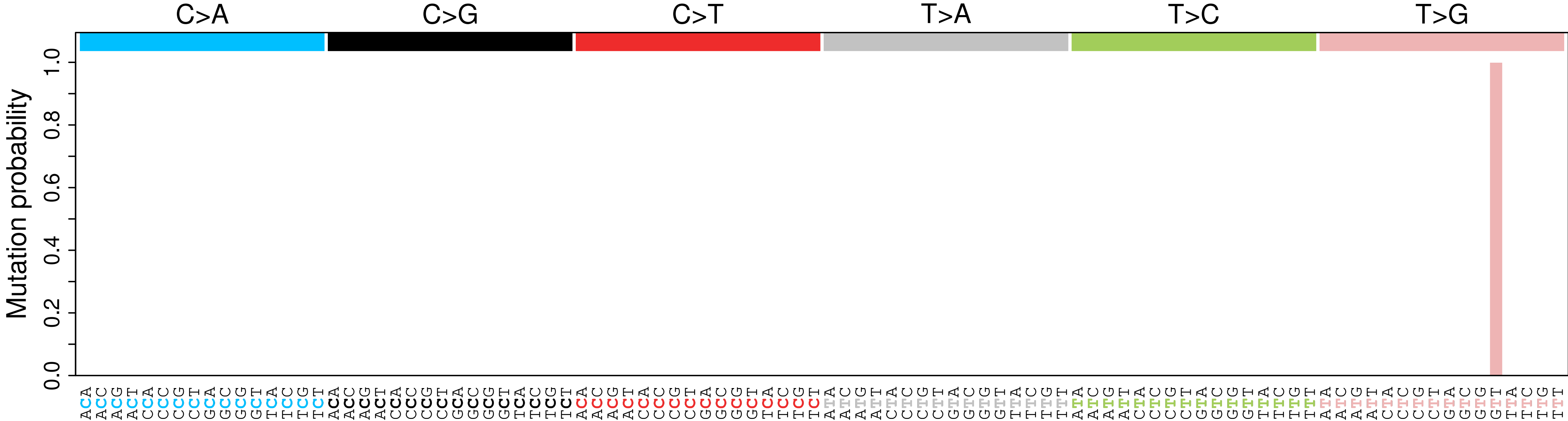
CATD0694a (4 mutations)



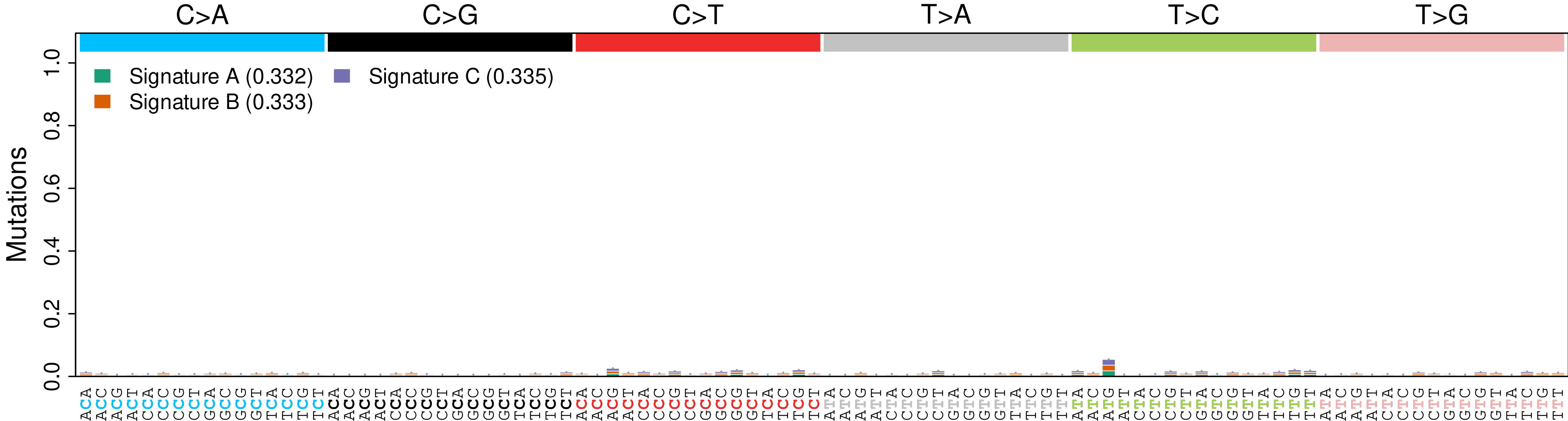
Reconstructed spectrum (cosine similarity = 0.225)



CATD0499a

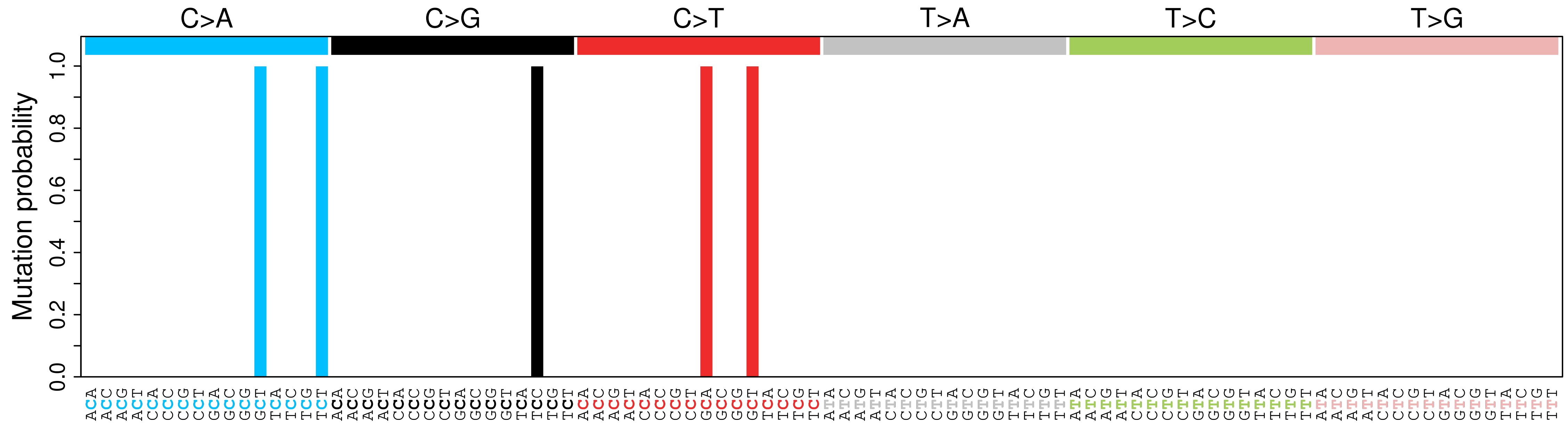


Reconstructed spectrum (cosine similarity = 0.1)

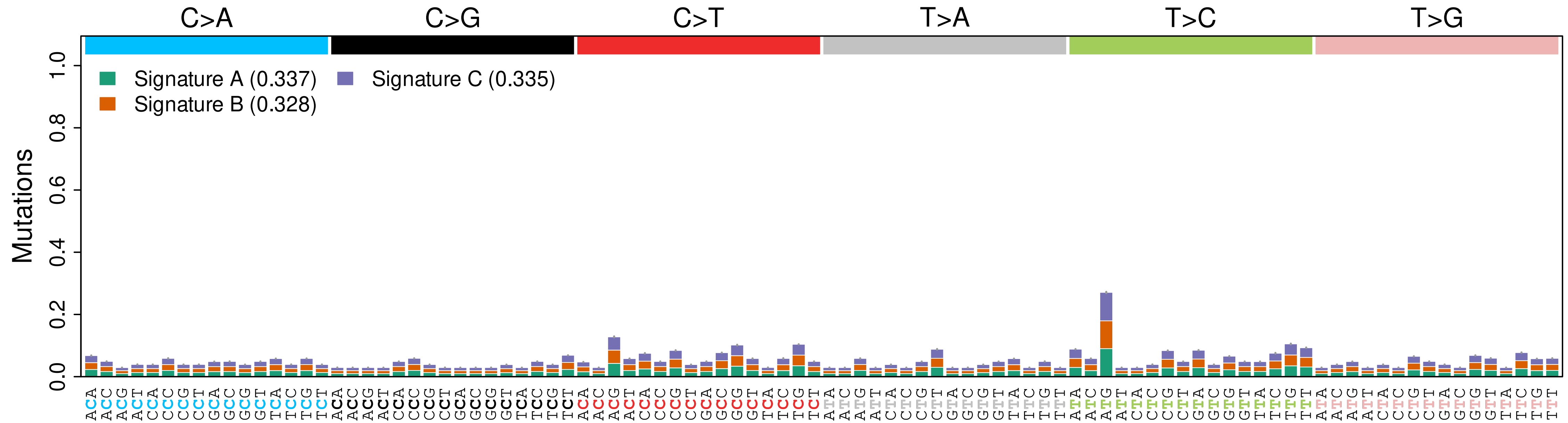




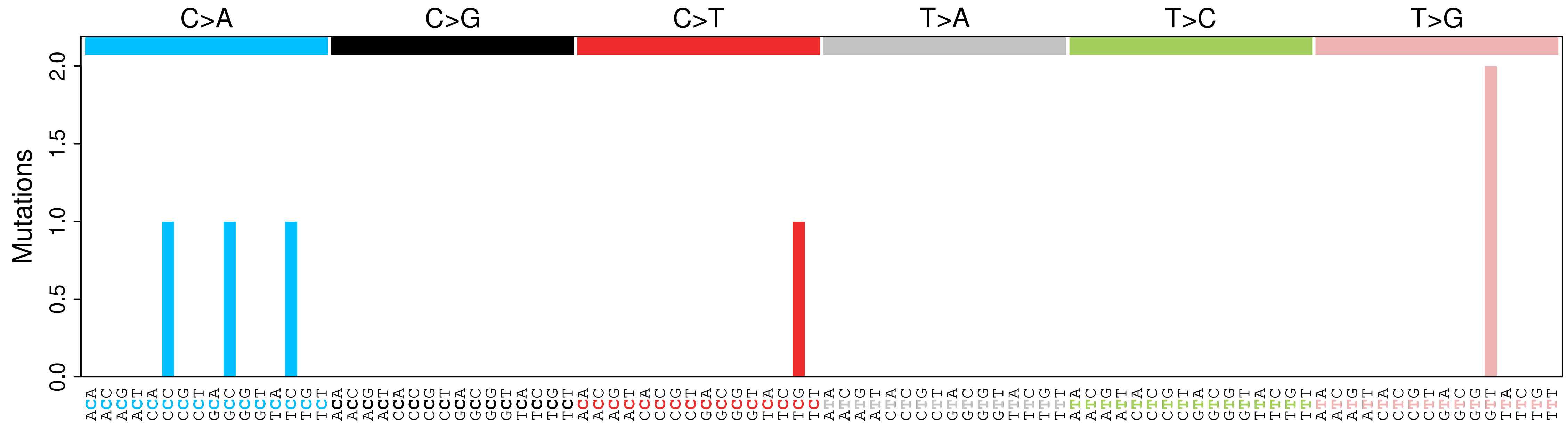
**CATD0504a**



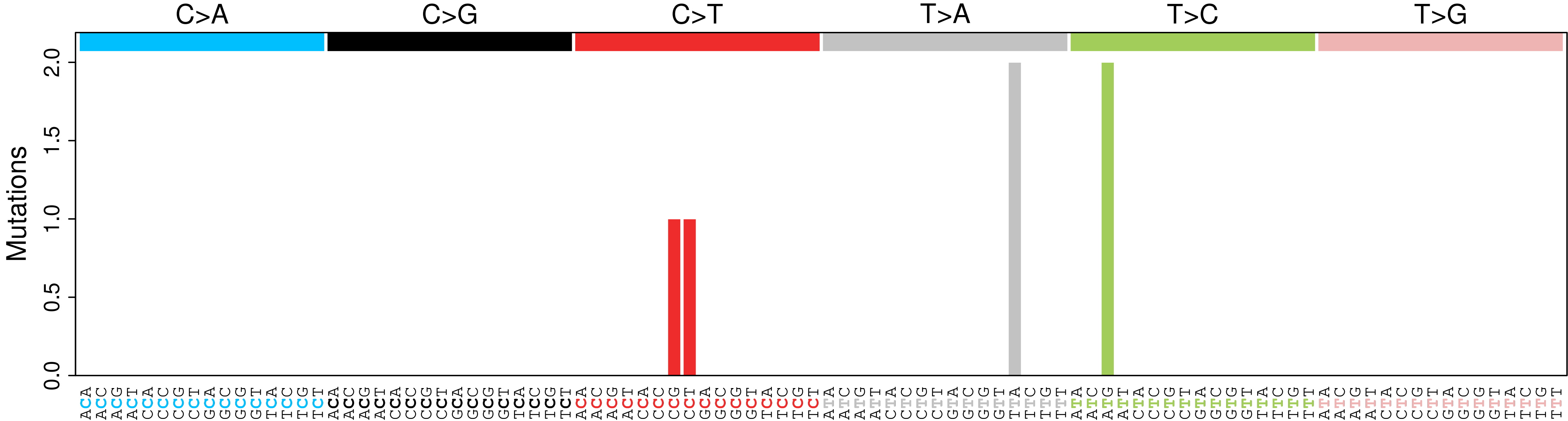
### Reconstructed spectrum (cosine similarity = 0.184)



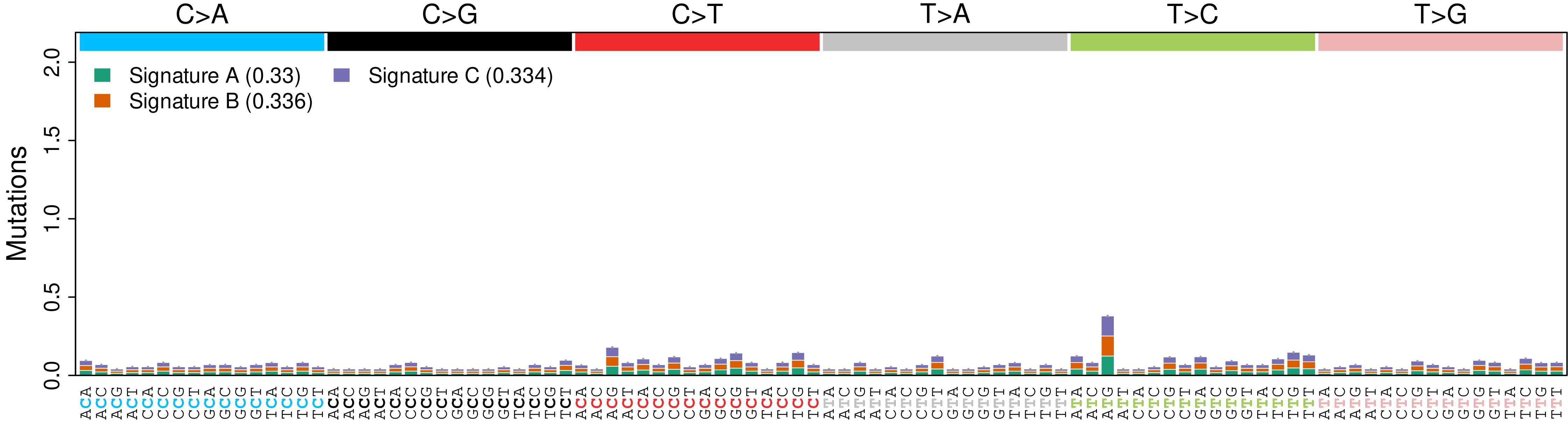
### CATD0700a (6 mutations)



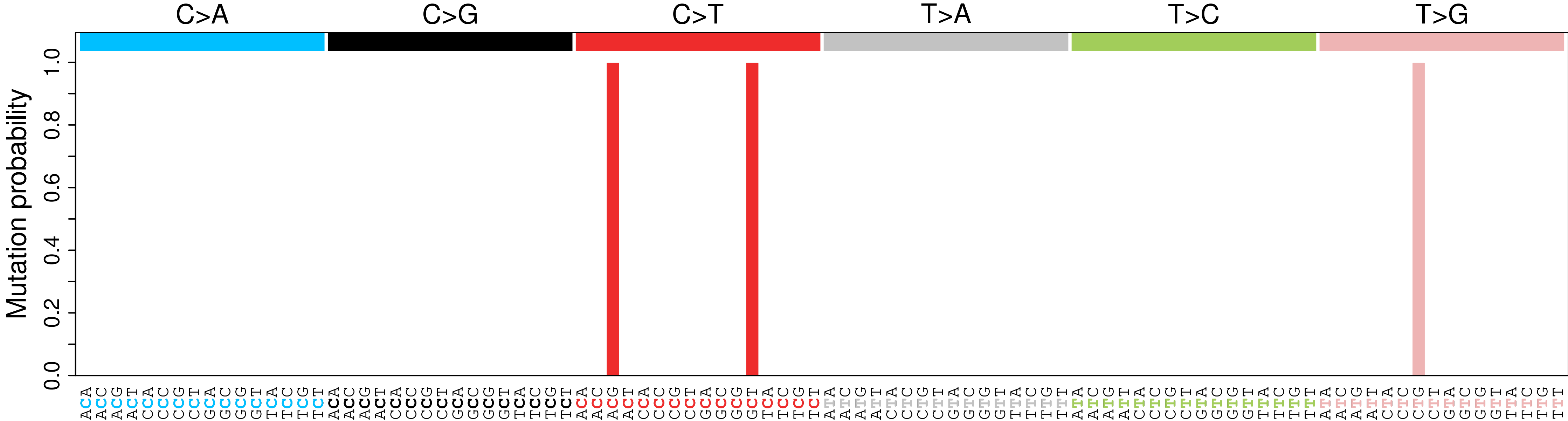
CATD0469a (6 mutations)



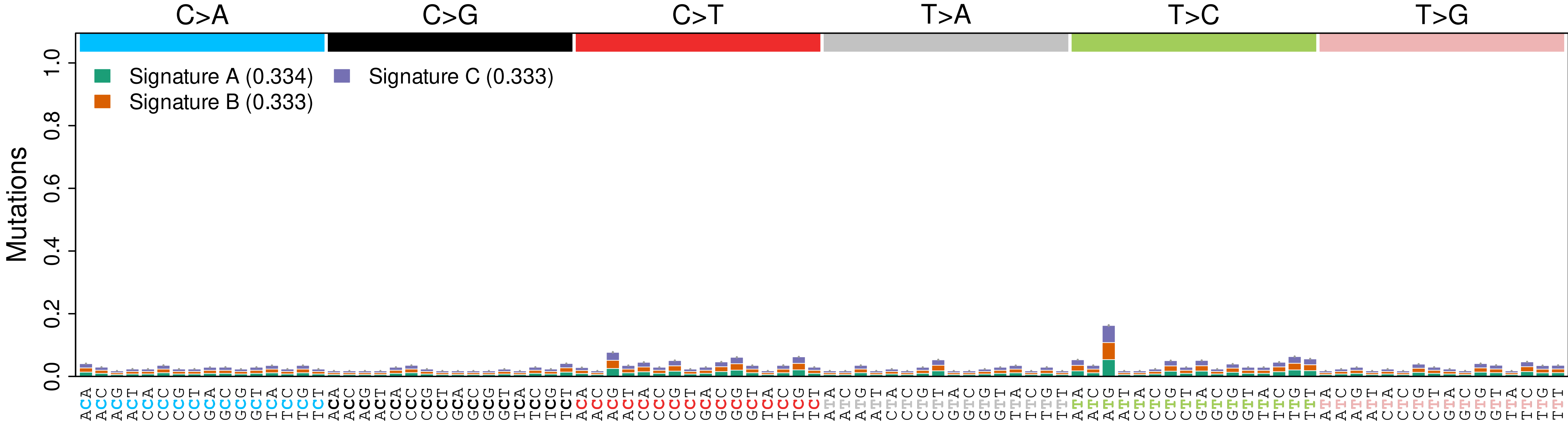
Reconstructed spectrum (cosine similarity = 0.417)



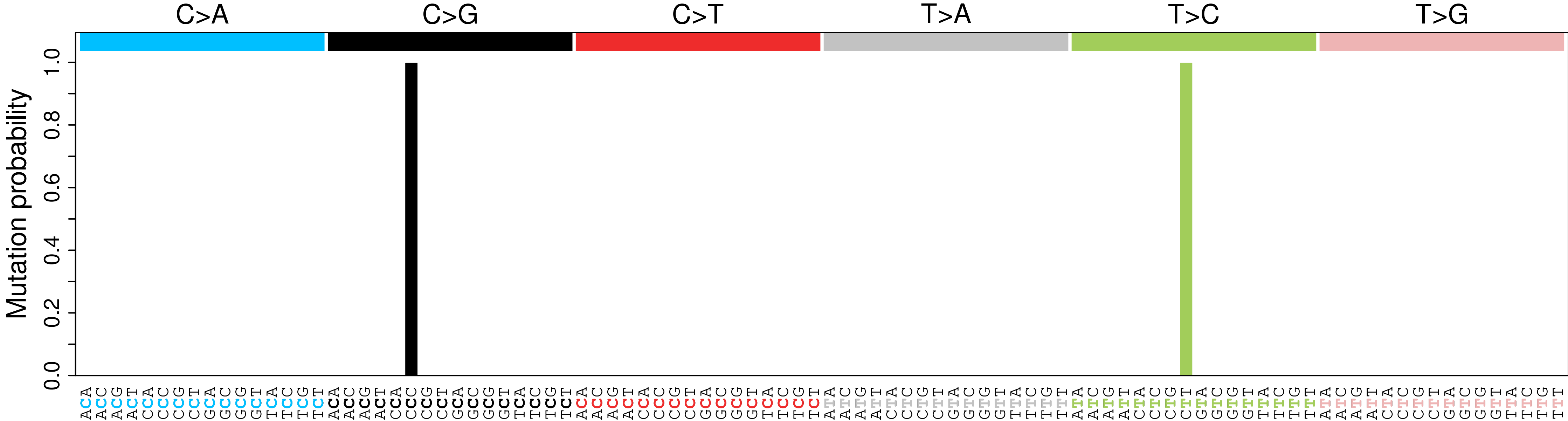
CATD0468a



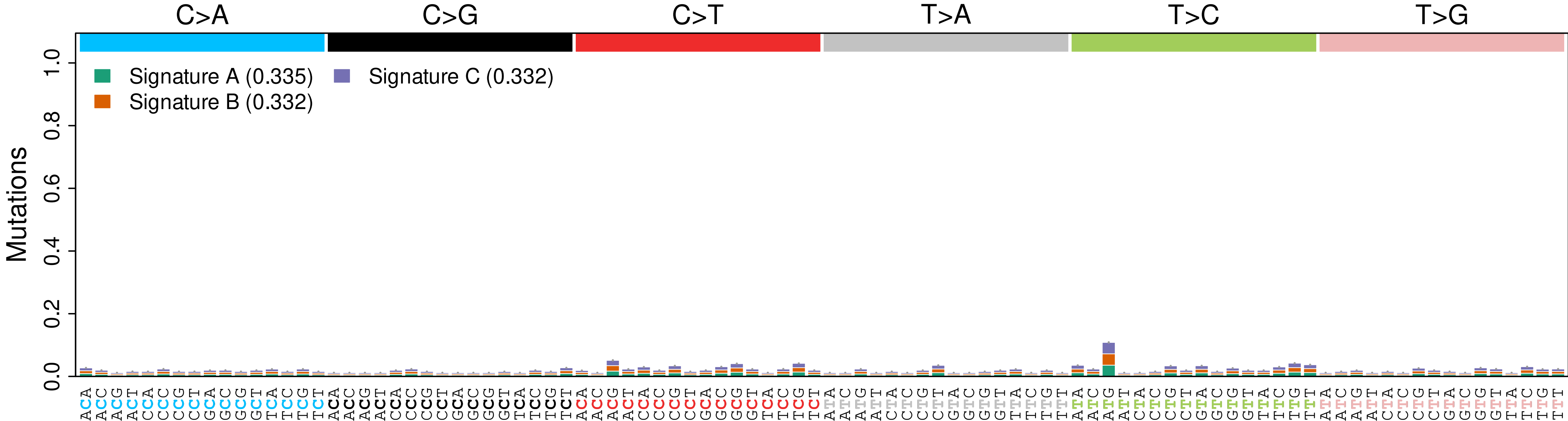
Reconstructed spectrum (cosine similarity = 0.245)



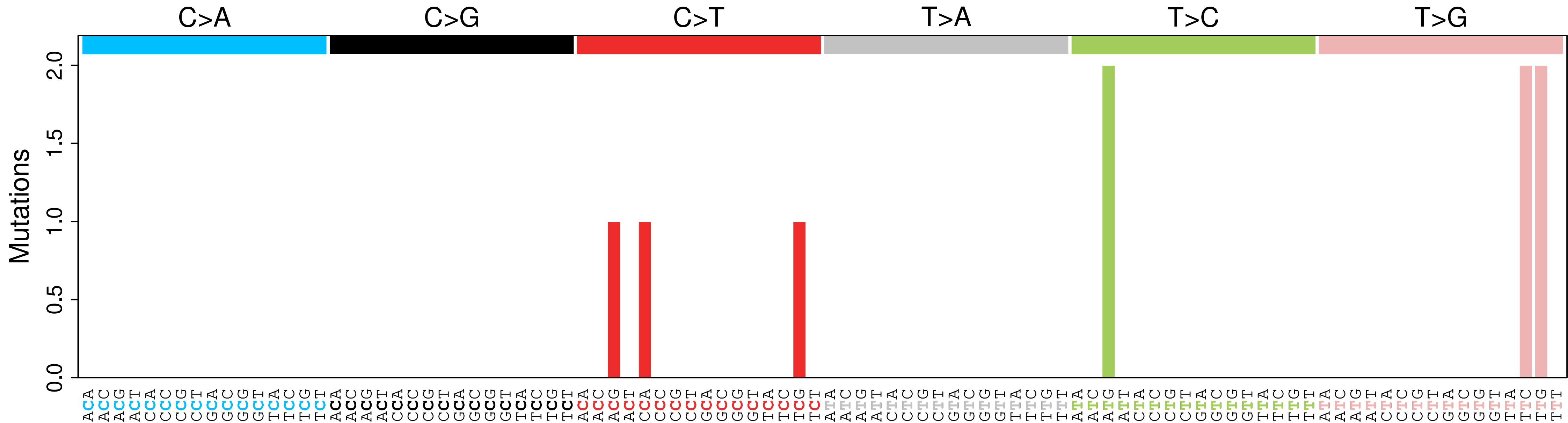
CATD0691a



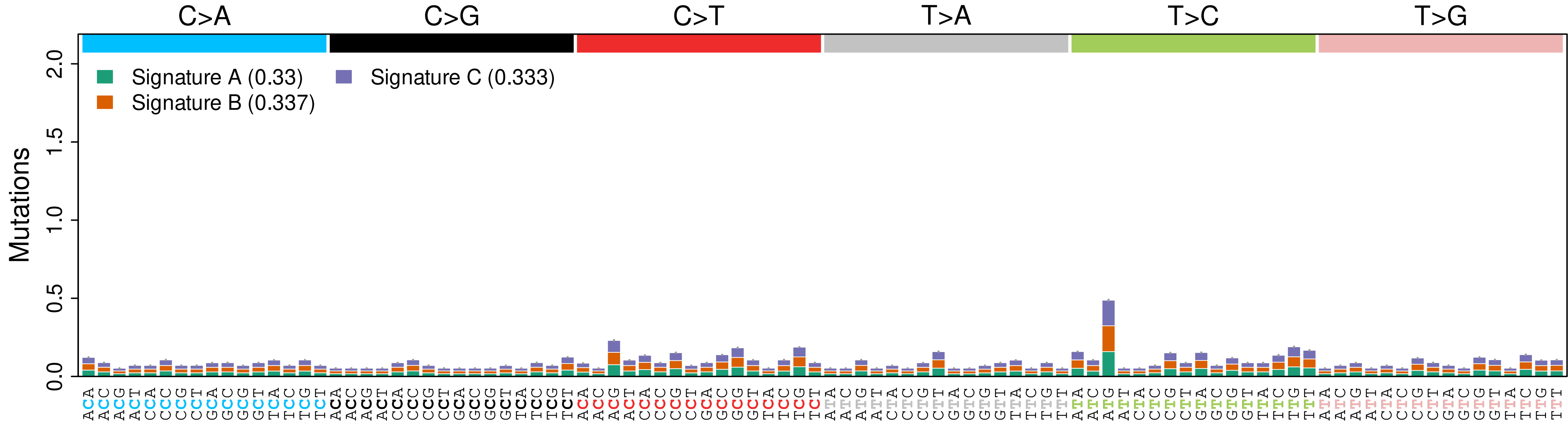
Reconstructed spectrum (cosine similarity = 0.129)



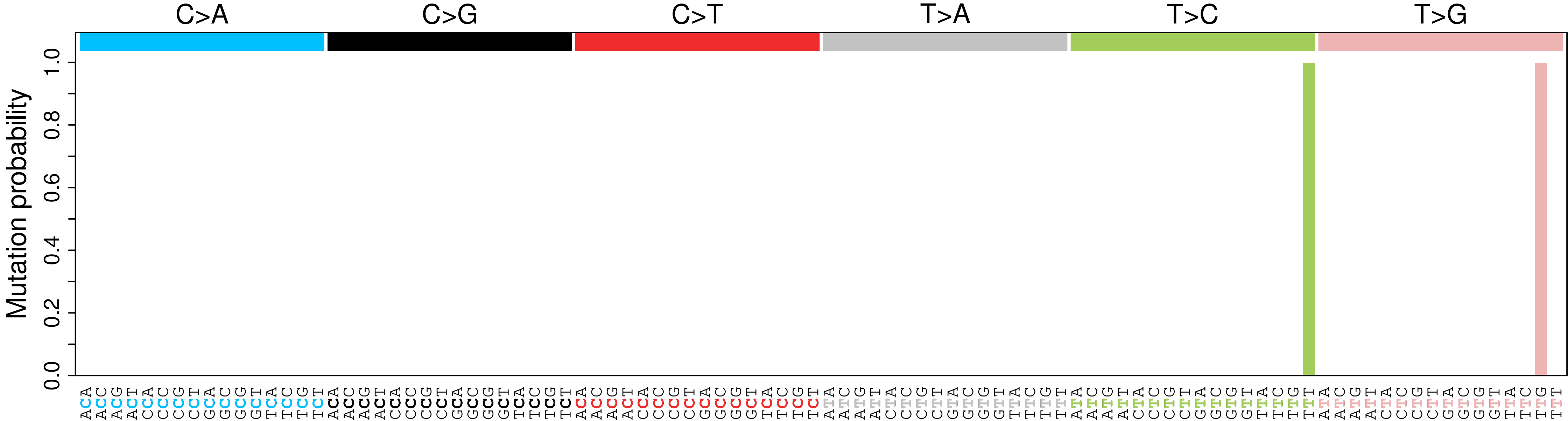
CATD0479a (9 mutations)



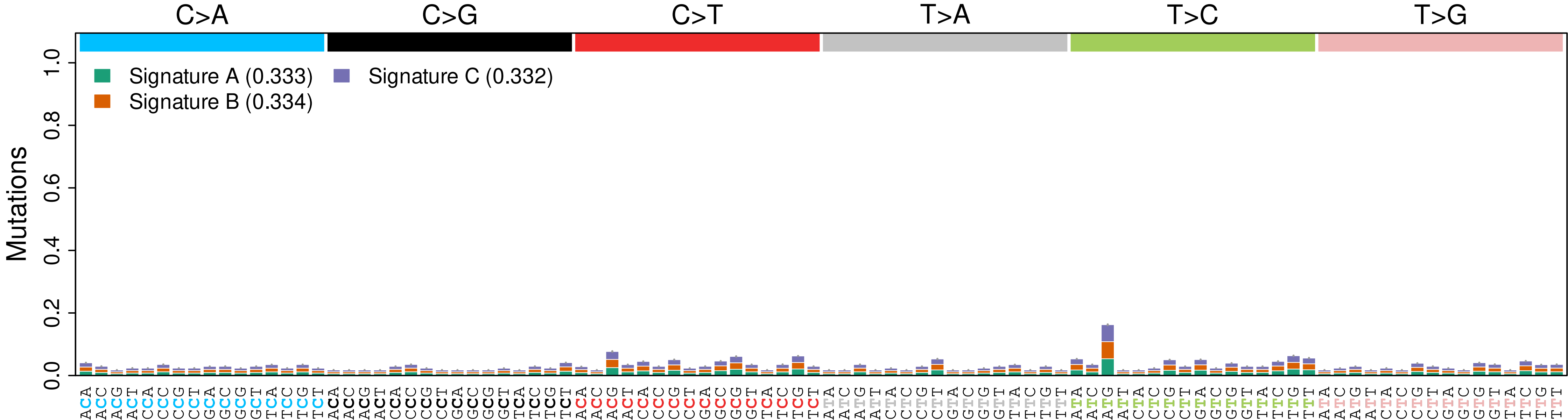
Reconstructed spectrum (cosine similarity = 0.488)



CATD0688a

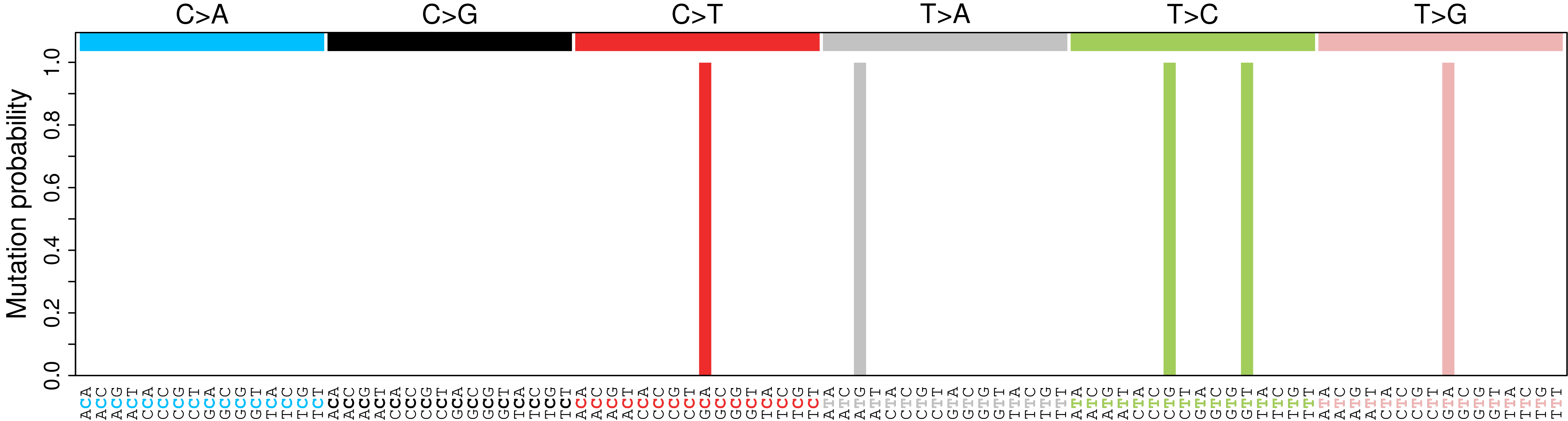


Reconstructed spectrum (cosine similarity = 0.18)

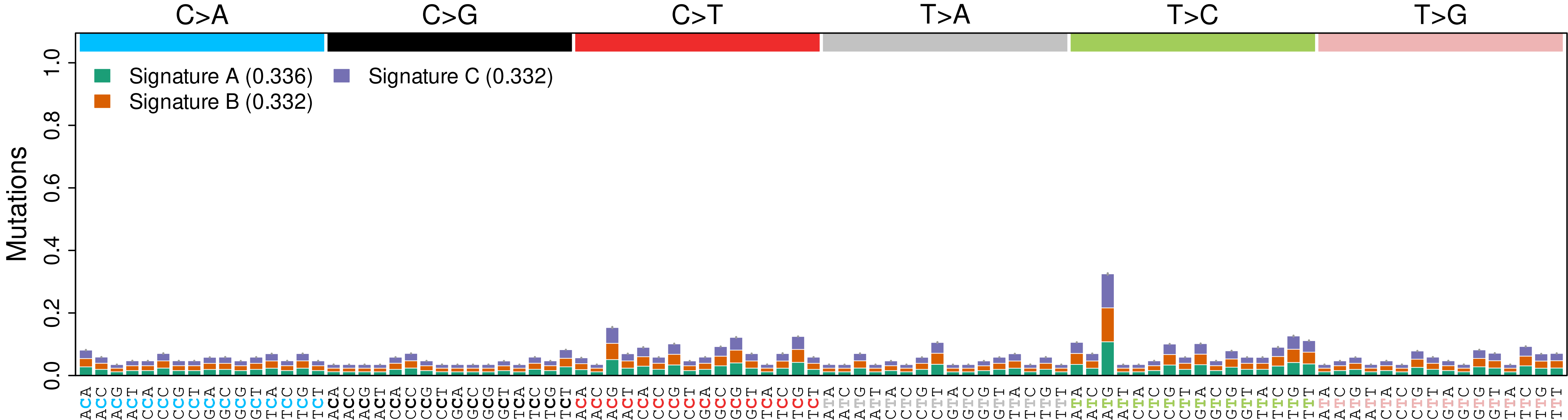




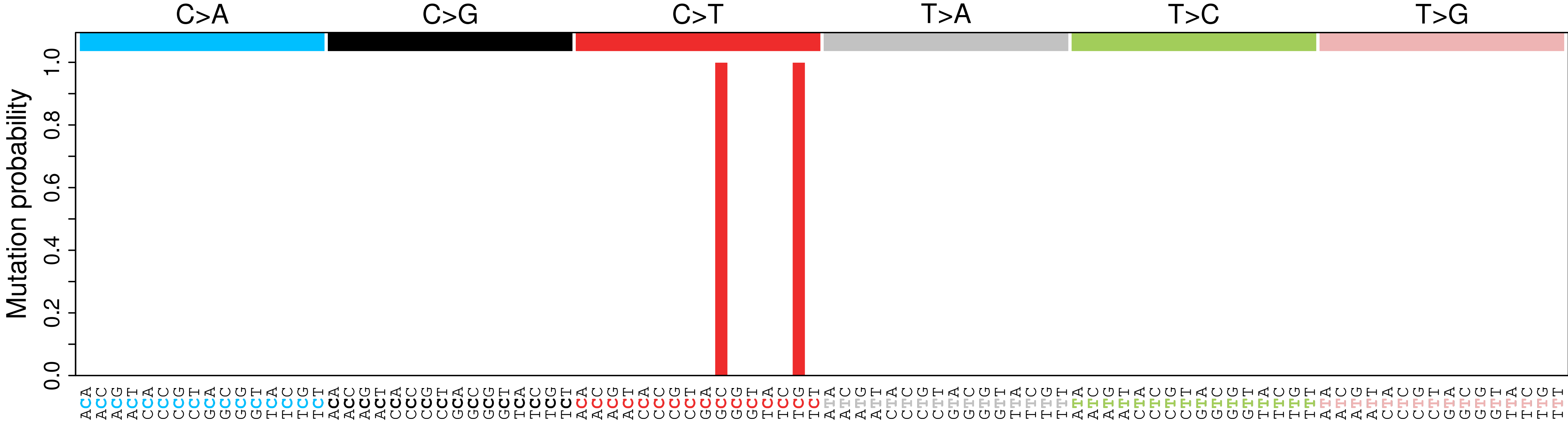
CATD0494a



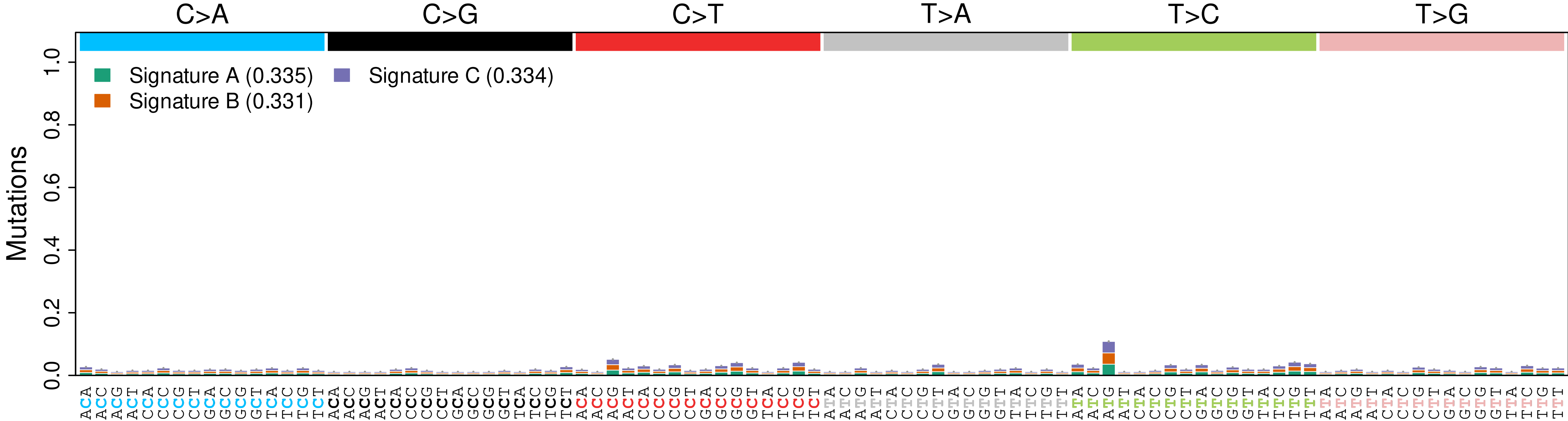
Reconstructed spectrum (cosine similarity = 0.211)



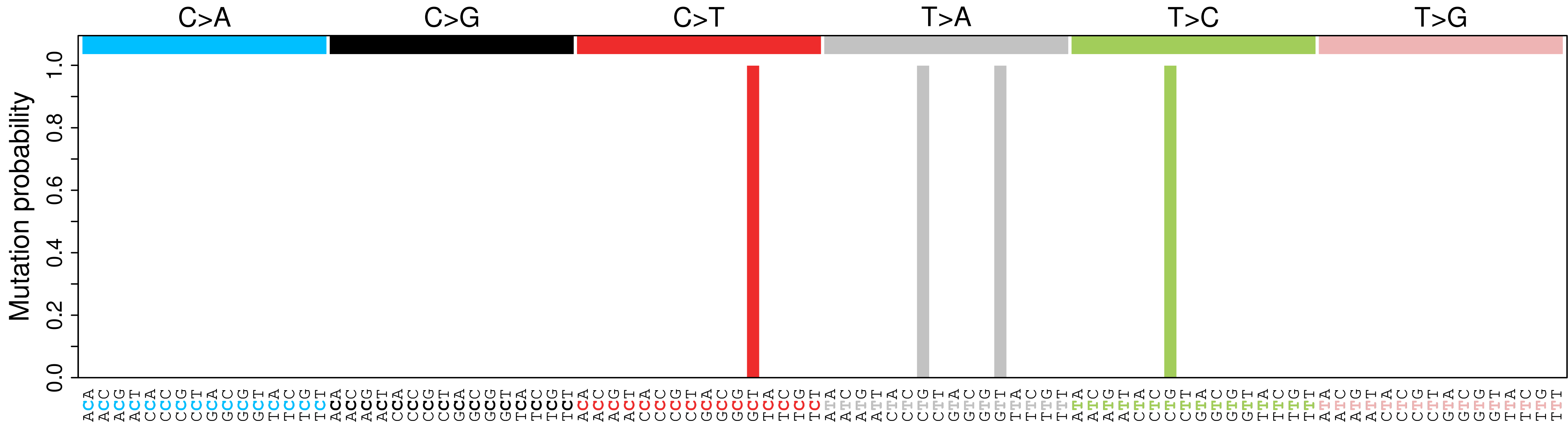
CATD0742a



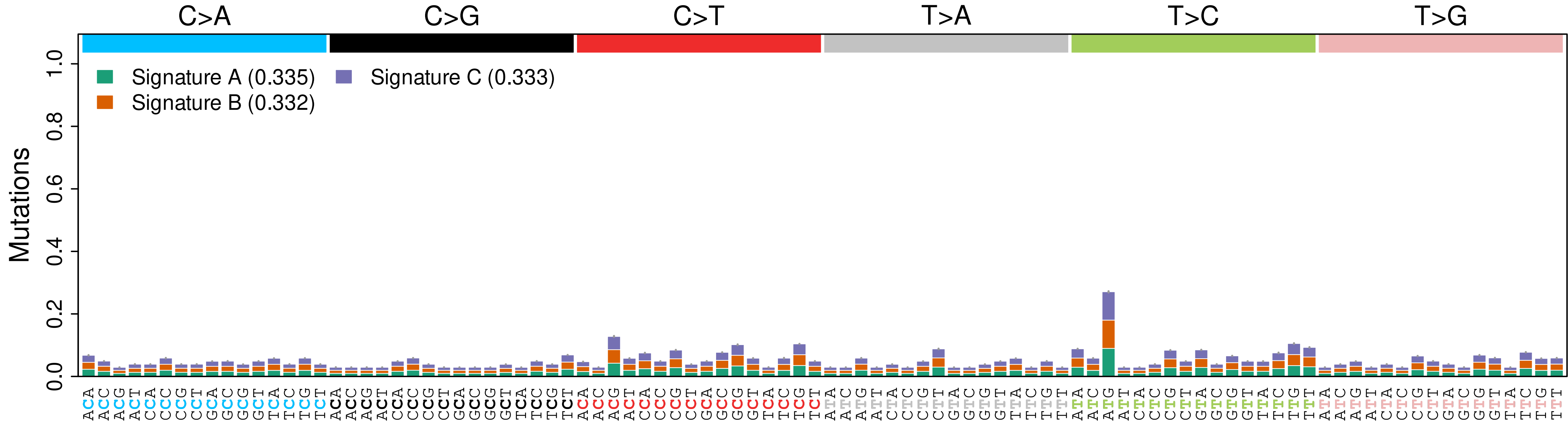
Reconstructed spectrum (cosine similarity = 0.216)



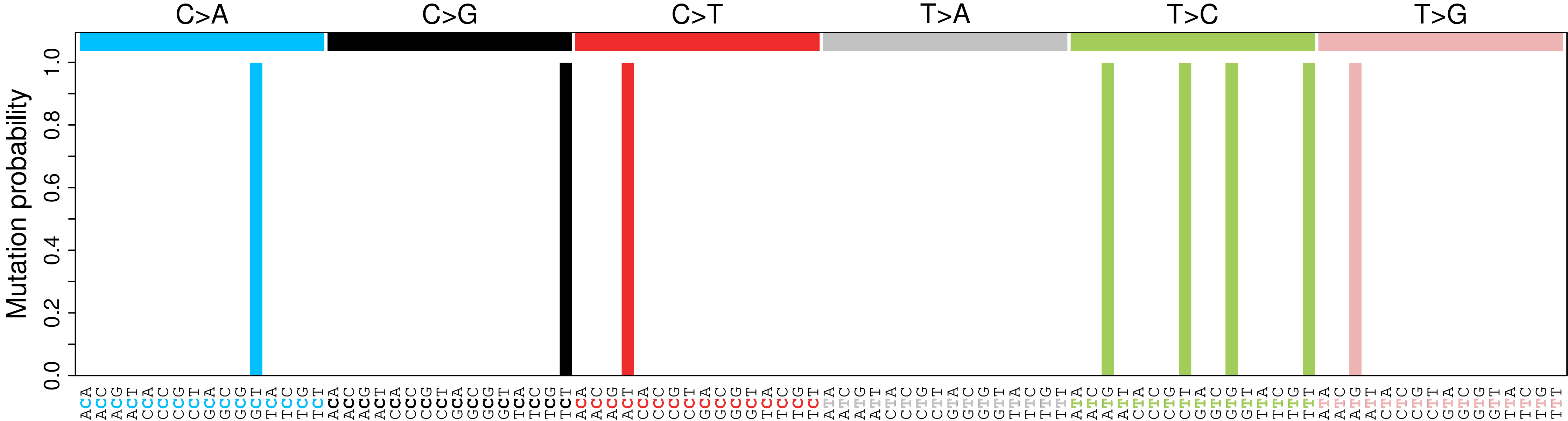
CATD0746a



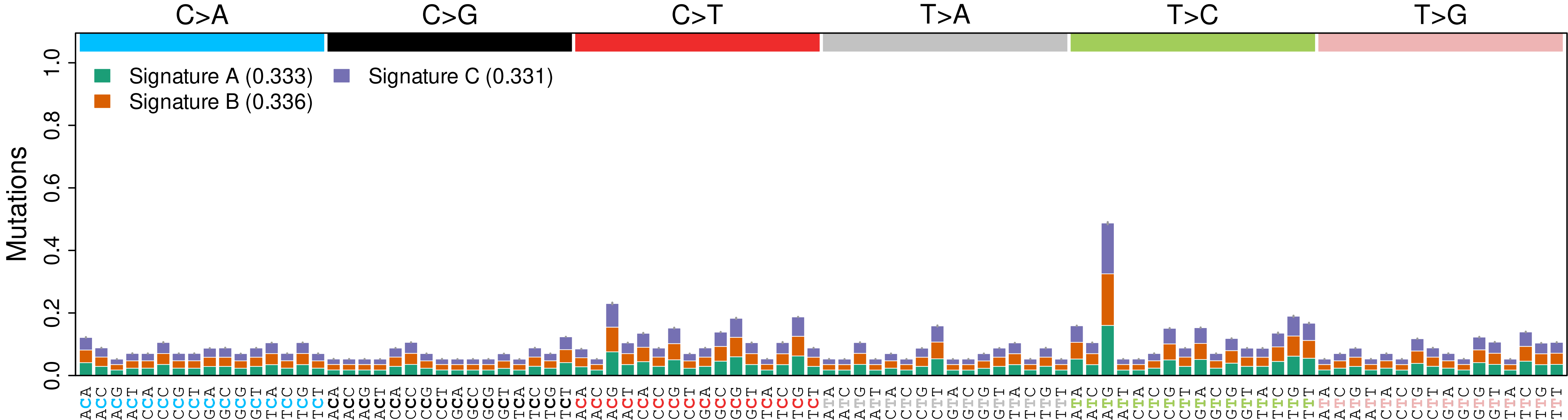
Reconstructed spectrum (cosine similarity = 0.202)



CATD0745a

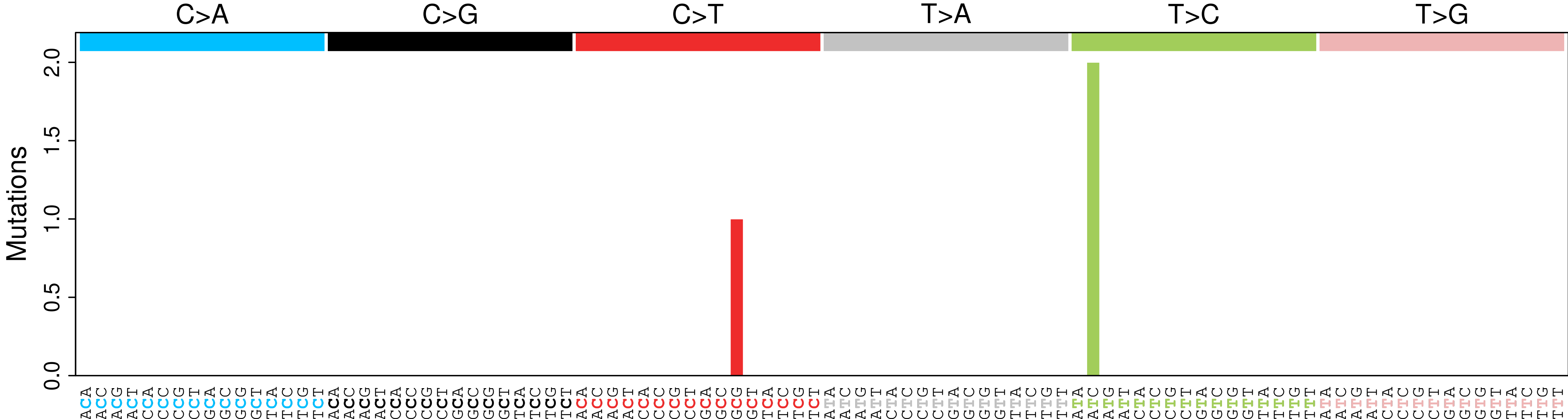


Reconstructed spectrum (cosine similarity = 0.419)

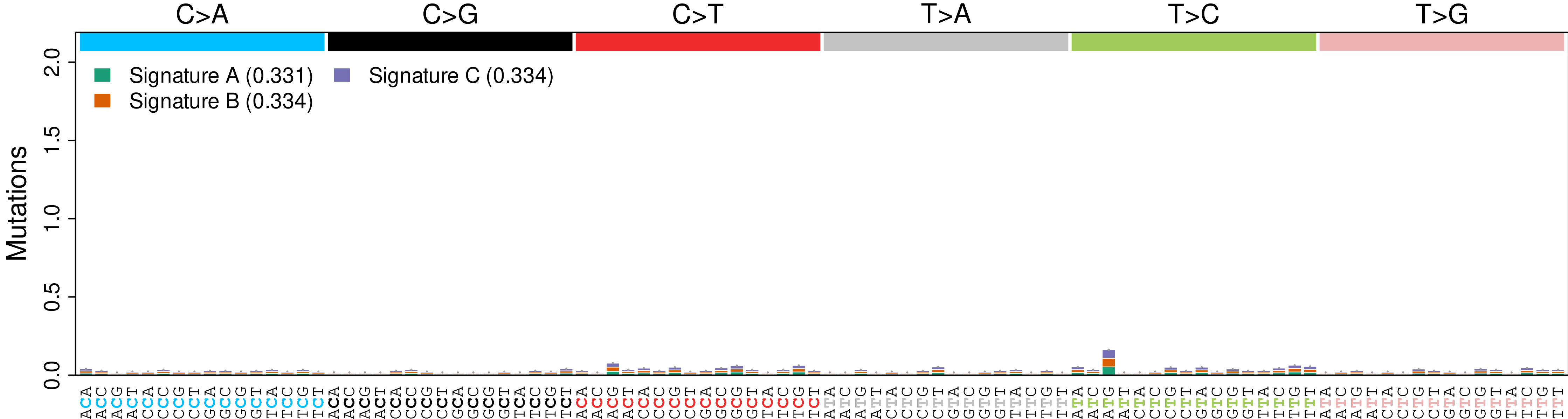




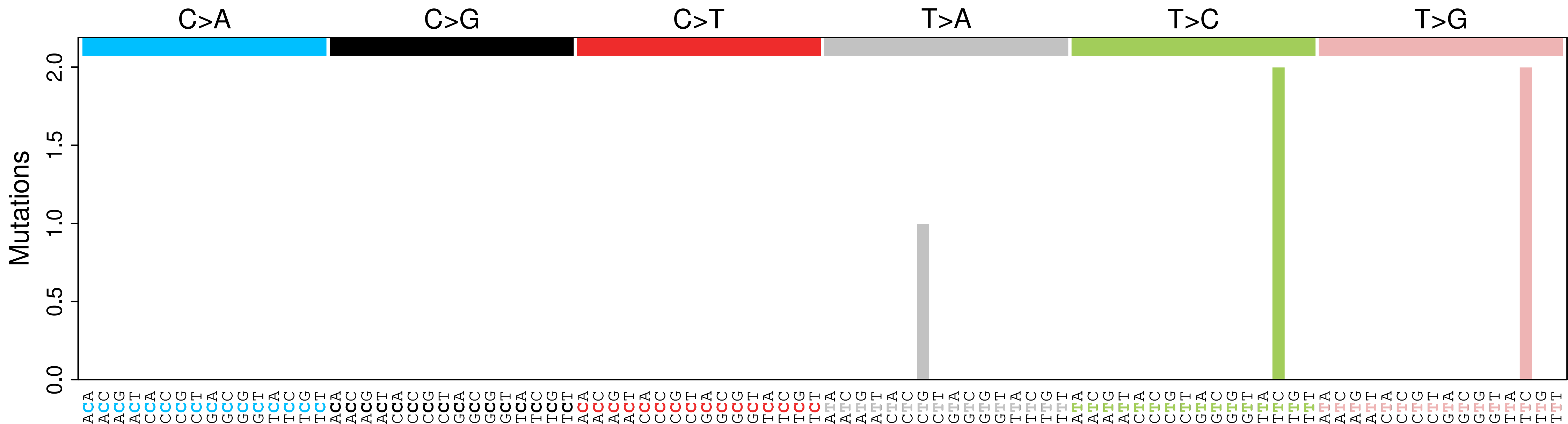
CATD0503a (3 mutations)



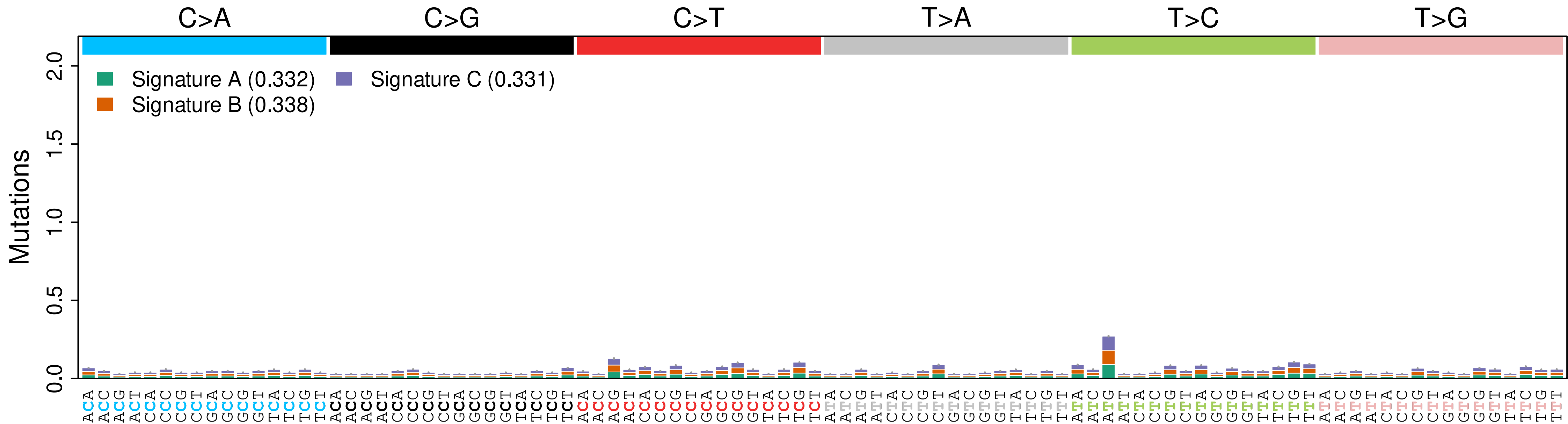
Reconstructed spectrum (cosine similarity = 0.165)



CATD0743a (5 mutations)

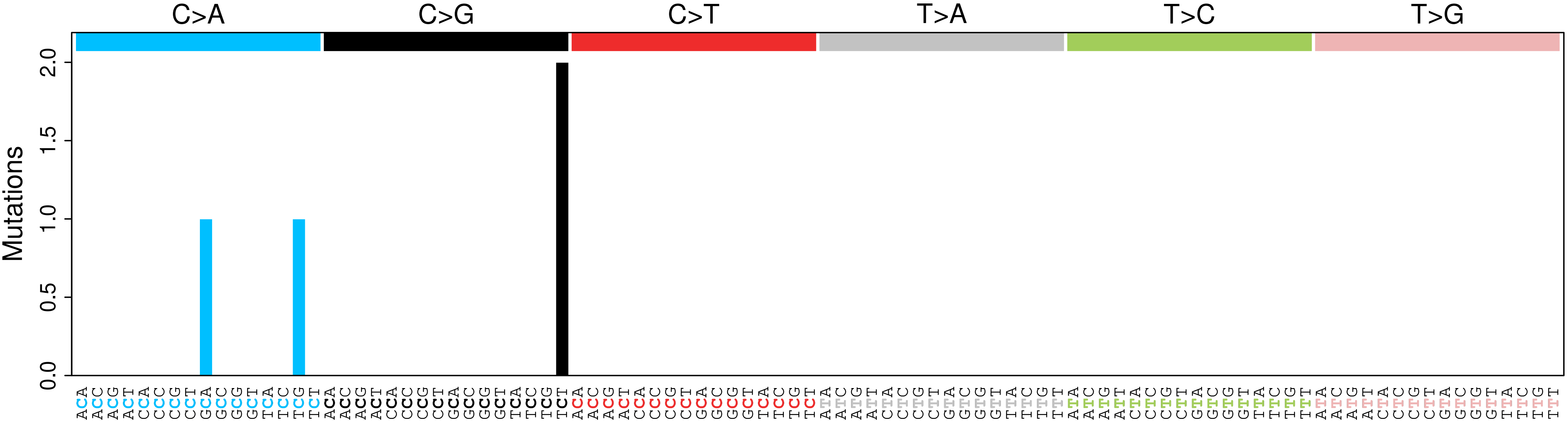


Reconstructed spectrum (cosine similarity = 0.199)

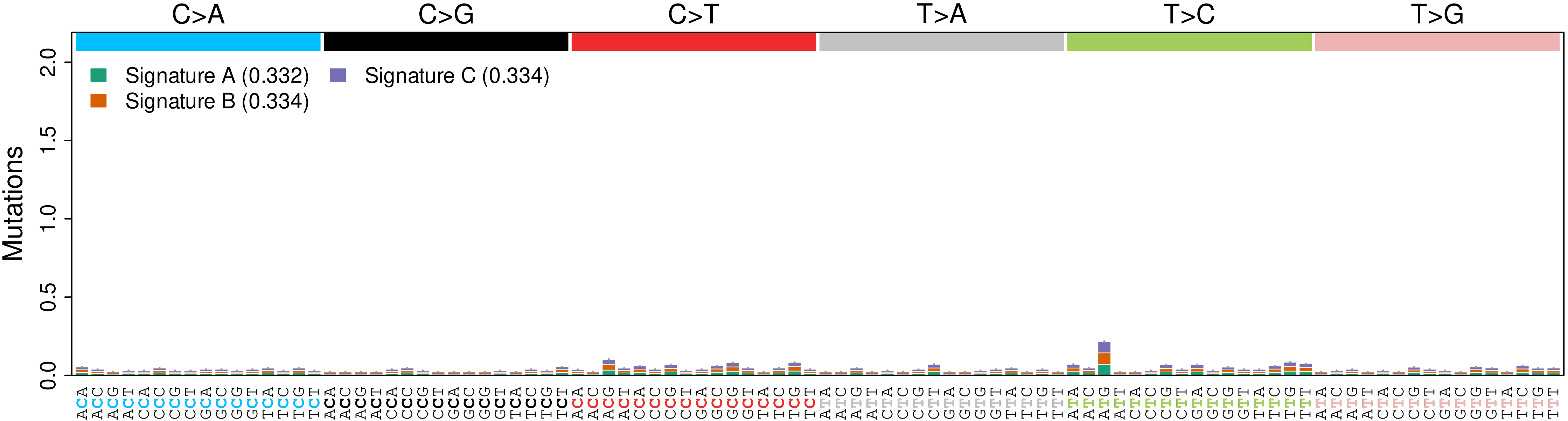




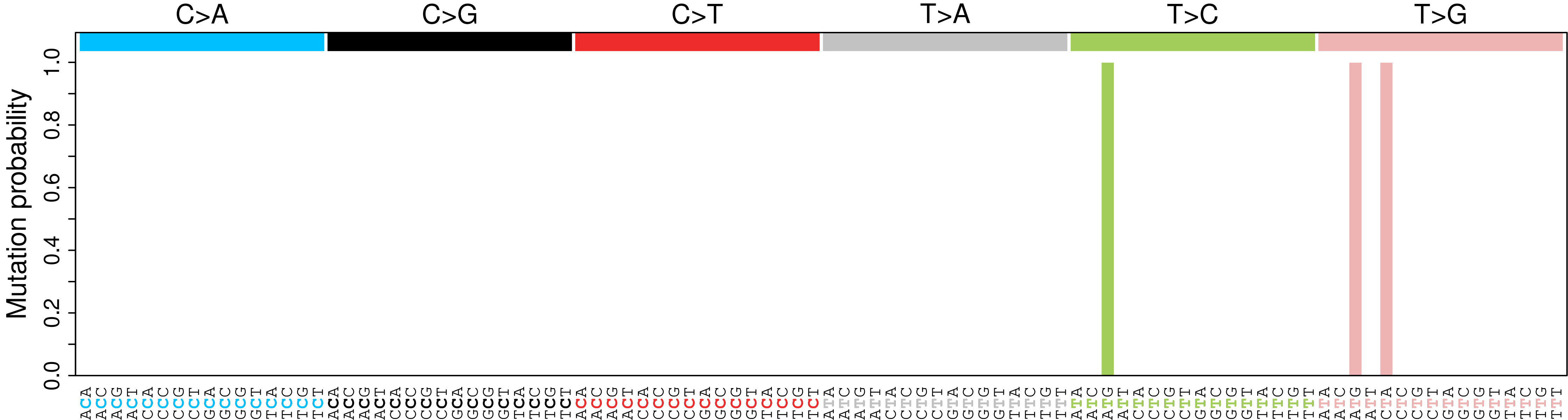
CATD0737a (4 mutations)



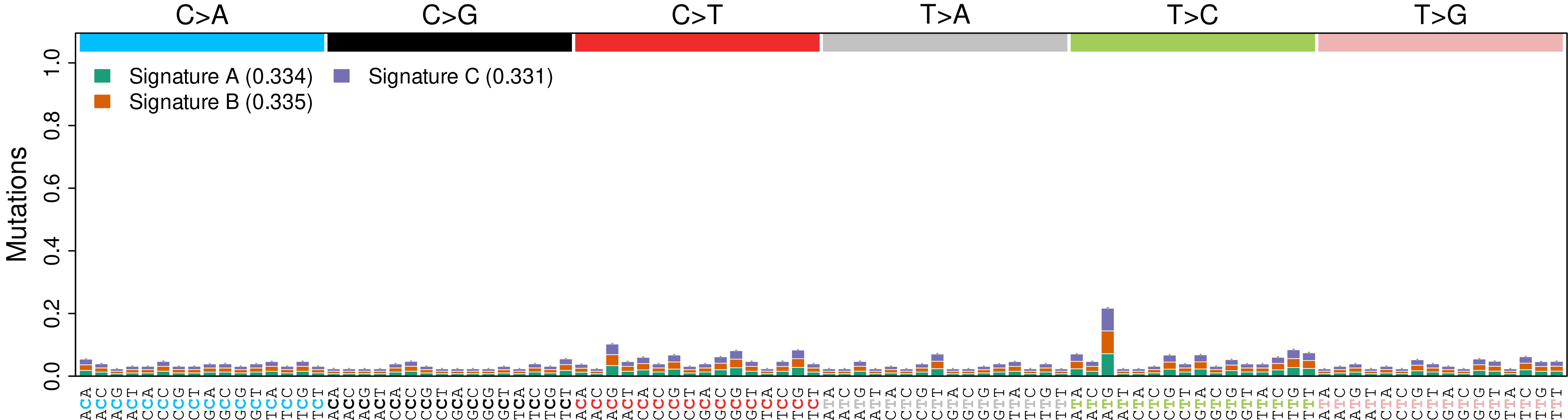
Reconstructed spectrum (cosine similarity = 0.169)



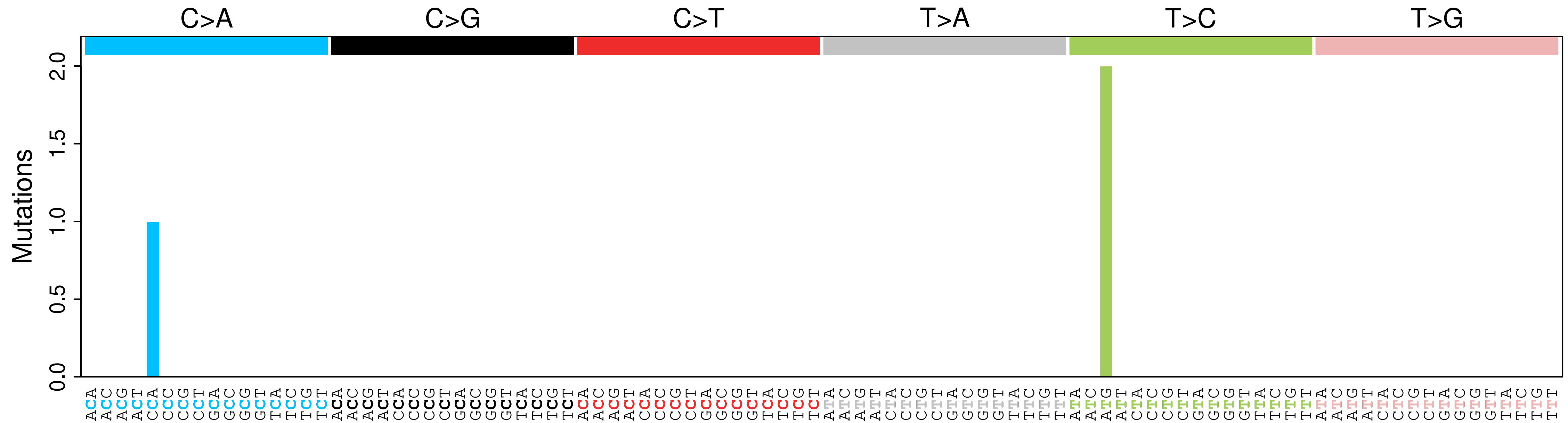
CATD0478a



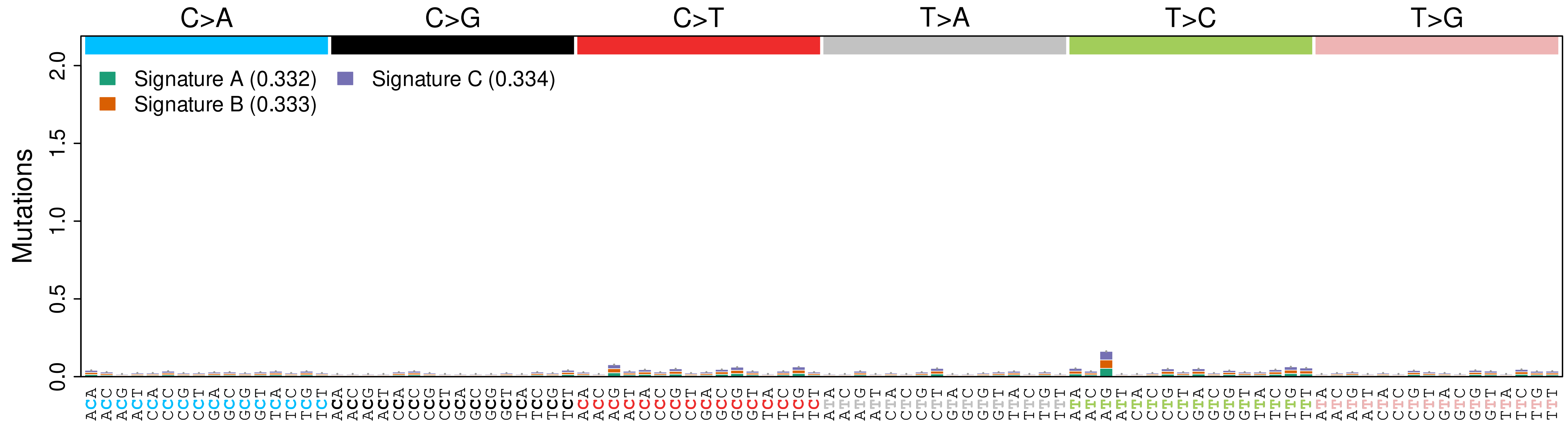
Reconstructed spectrum (cosine similarity = 0.349)



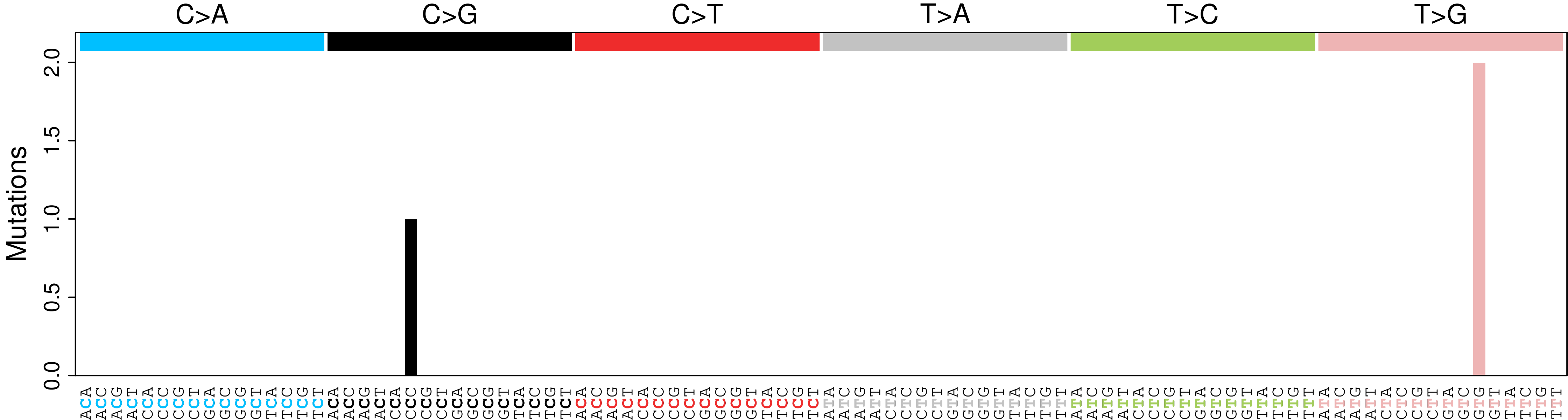
### CATD0488a (3 mutations)



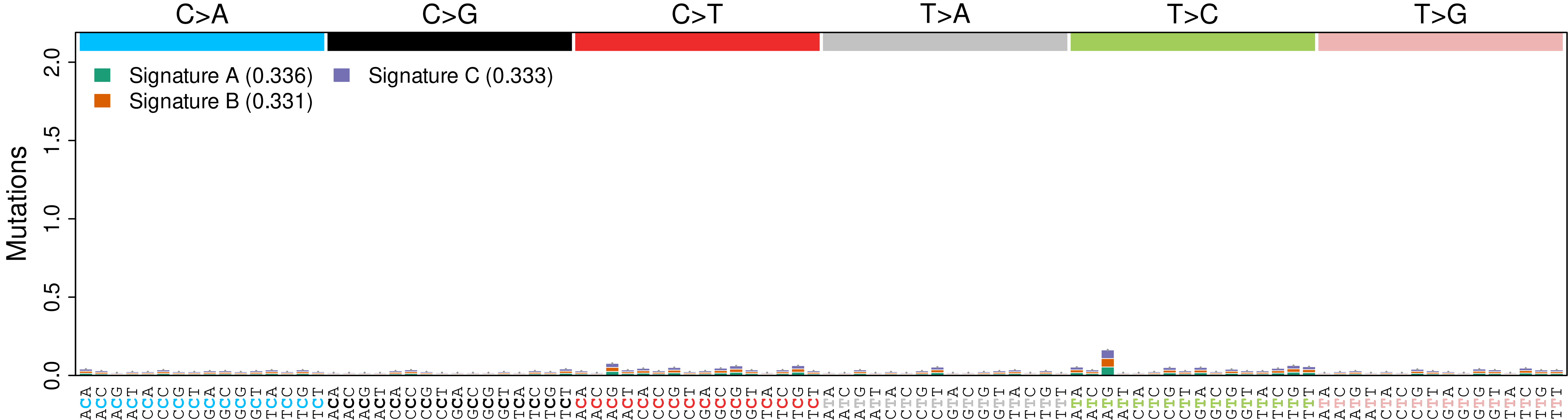
### Reconstructed spectrum (cosine similarity = 0.439)



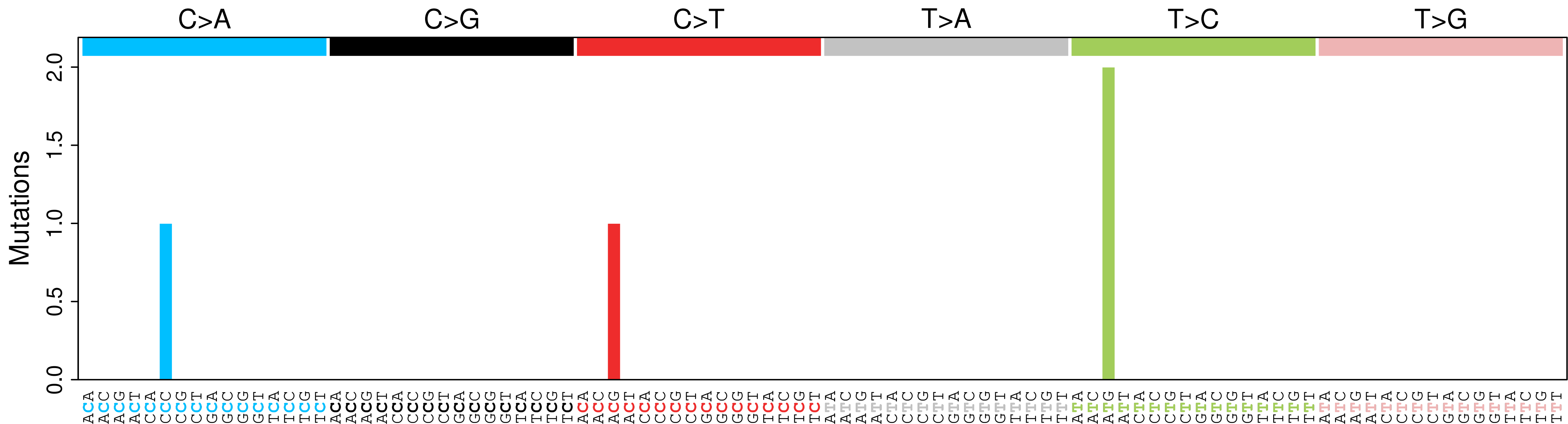
CATD0697a (3 mutations)



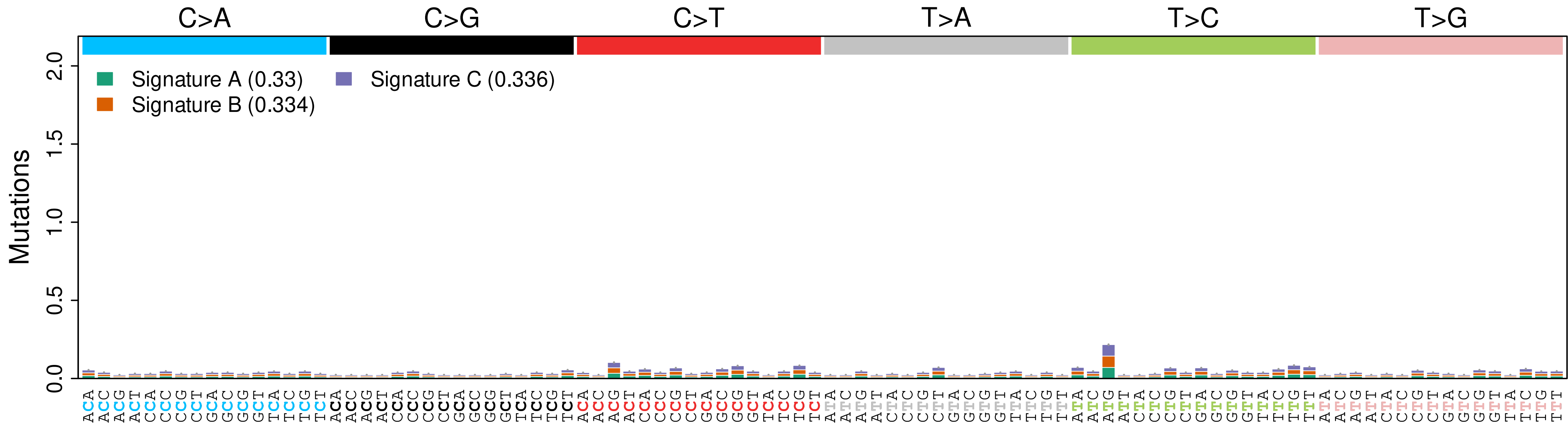
Reconstructed spectrum (cosine similarity = 0.147)



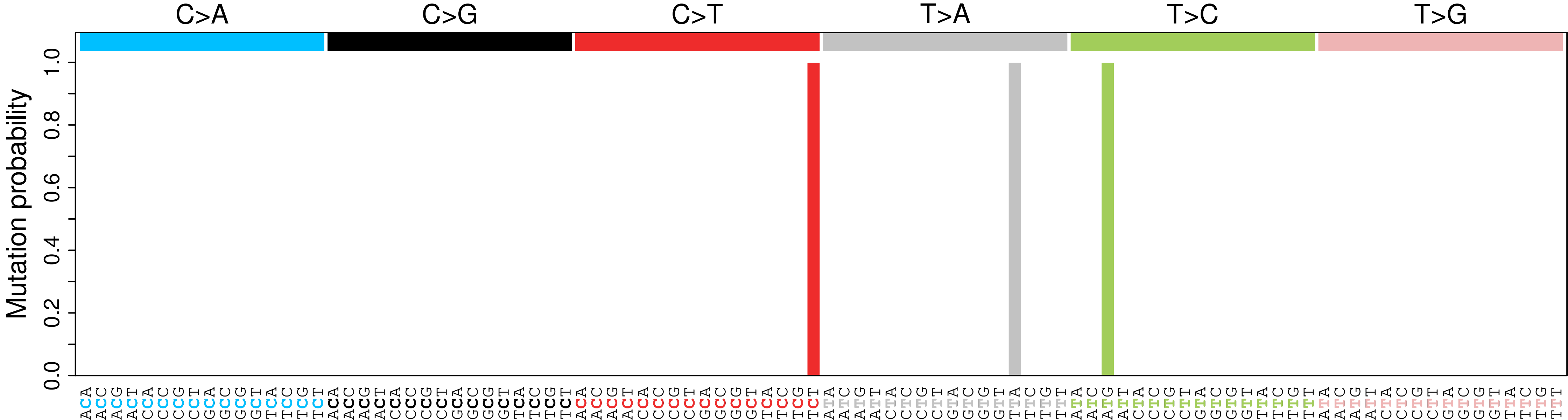
CATD0485a (4 mutations)



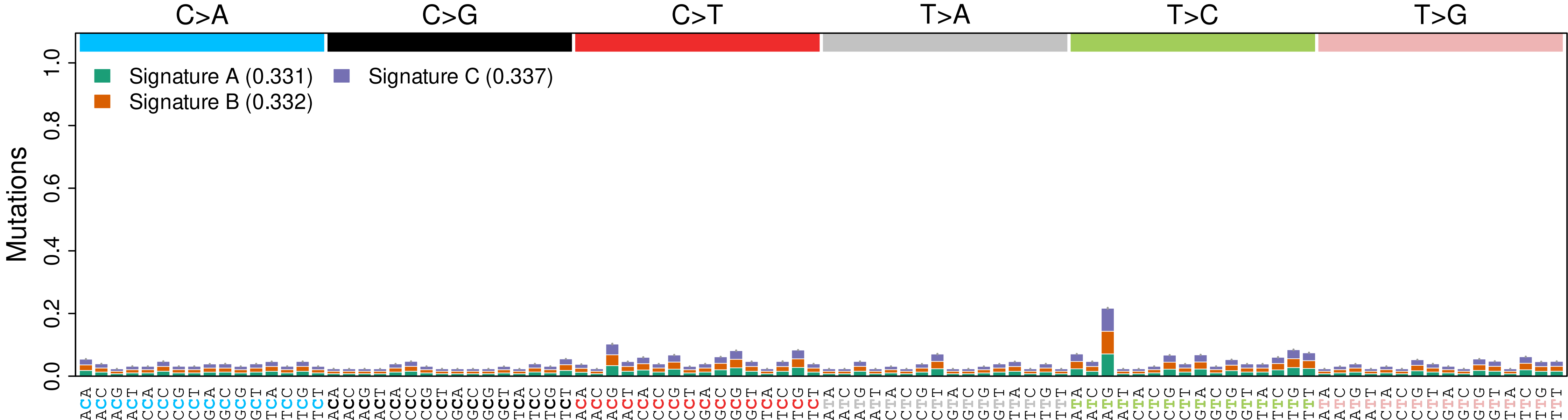
Reconstructed spectrum (cosine similarity = 0.502)



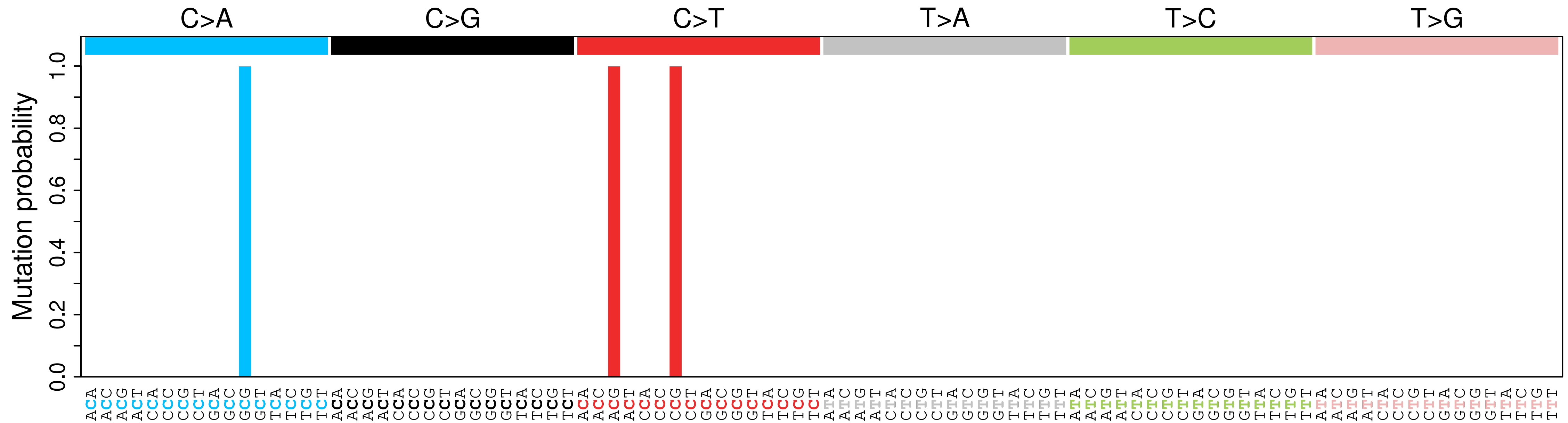
CATD0486a



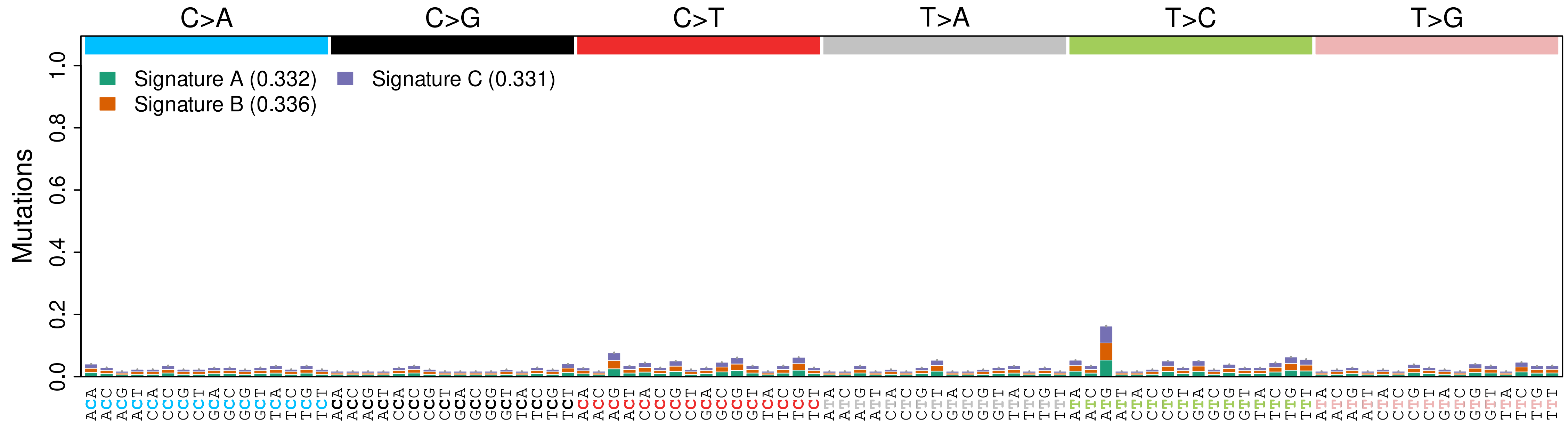
Reconstructed spectrum (cosine similarity = 0.368)



**CATD0487a**

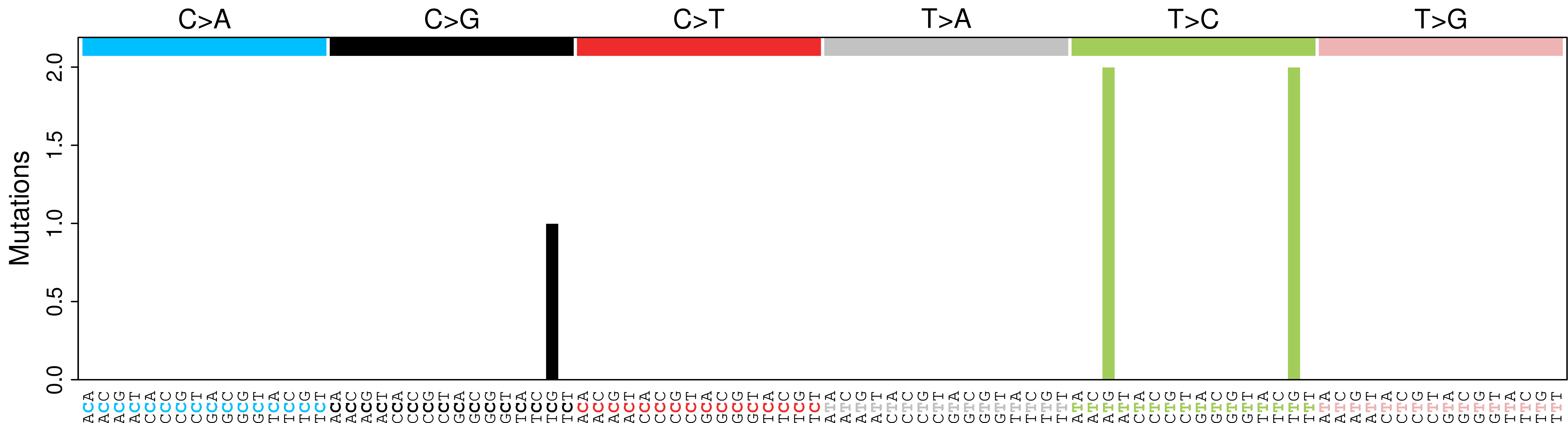


### Reconstructed spectrum (cosine similarity = 0.245)

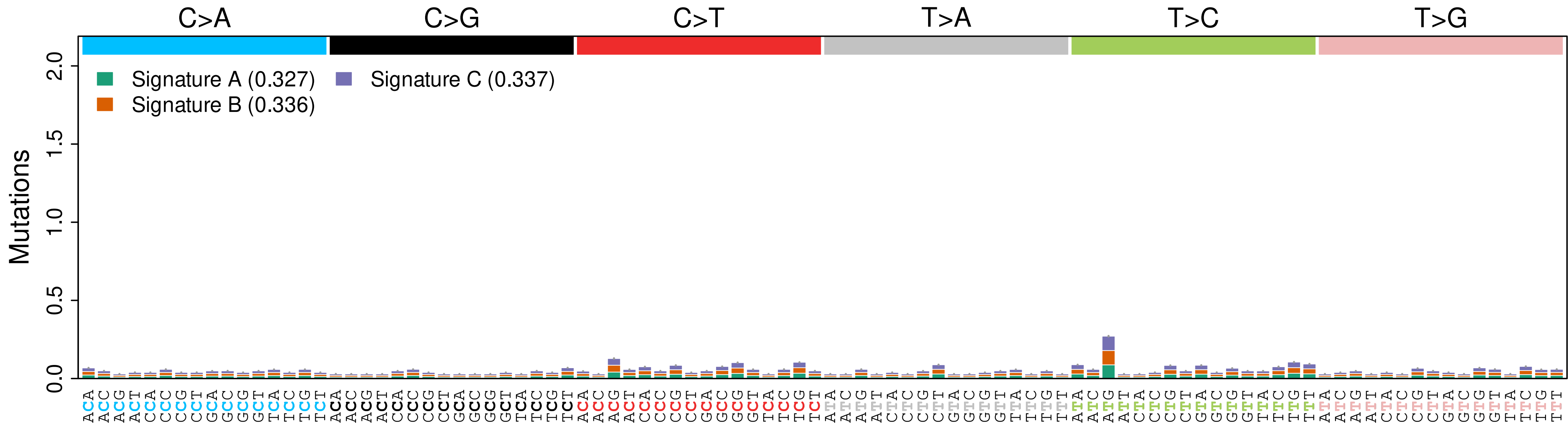




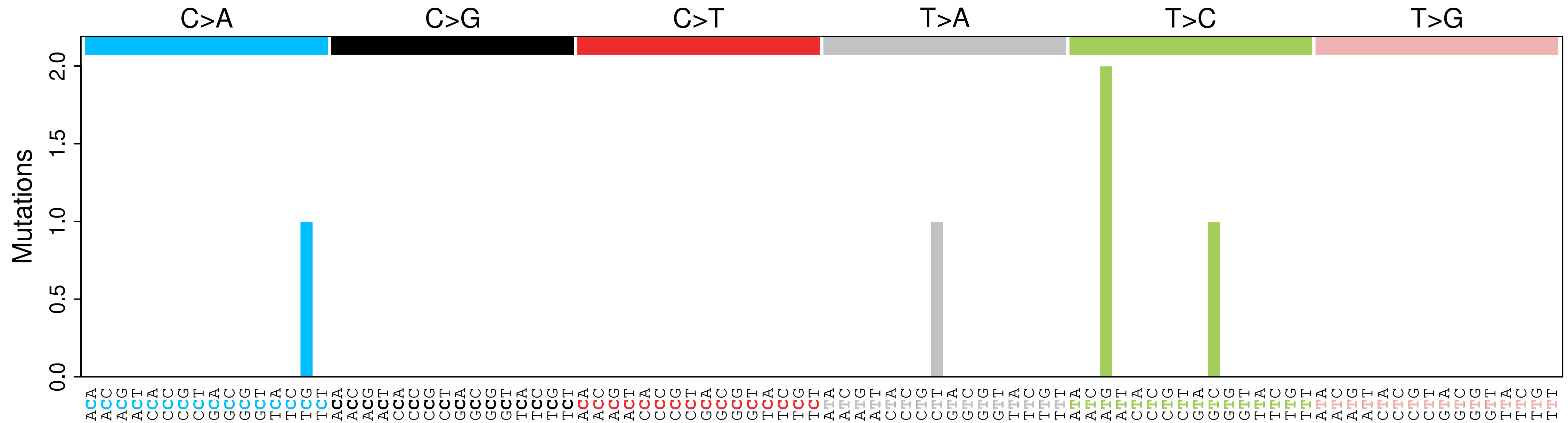
CATD0744a (5 mutations)



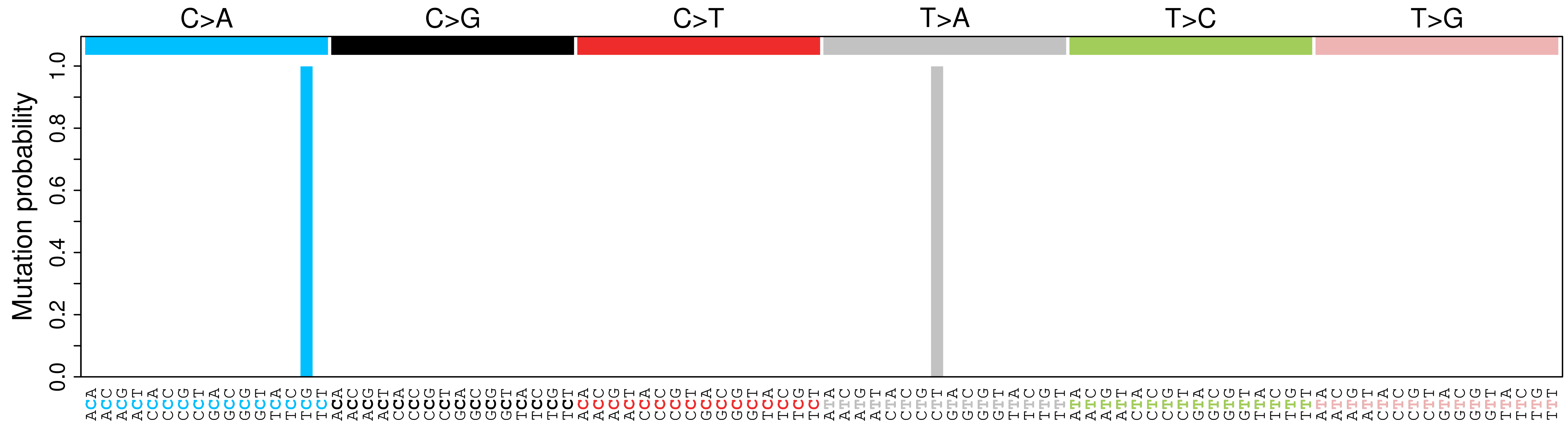
Reconstructed spectrum (cosine similarity = 0.445)



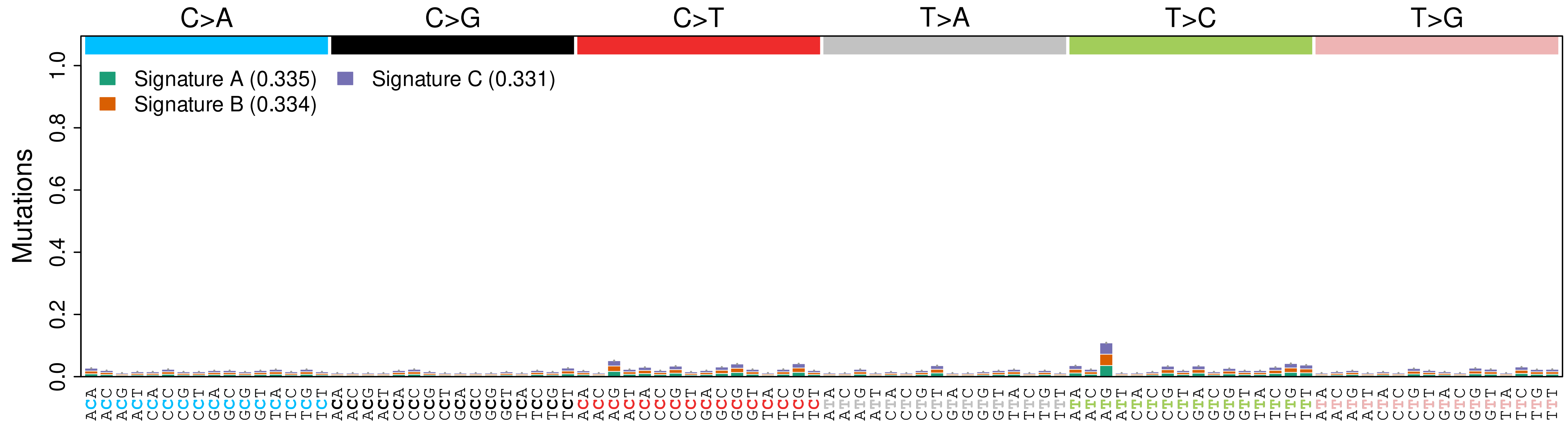
### CATD0471a (5 mutations)



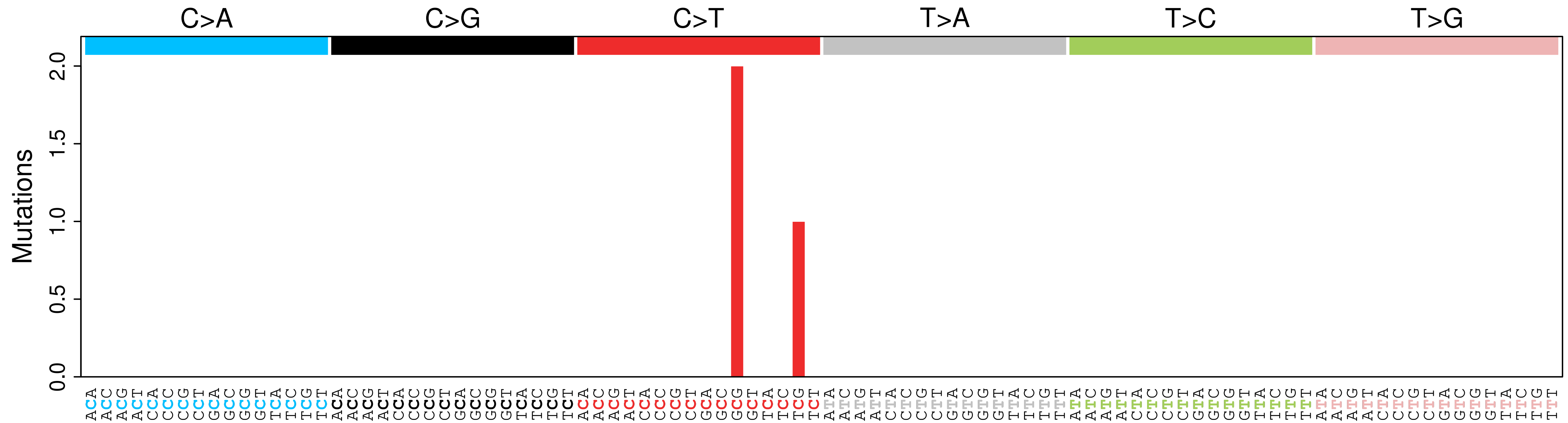
**CATD0741a**



### Reconstructed spectrum (cosine similarity = 0.175)



### CATD0739a (3 mutations)



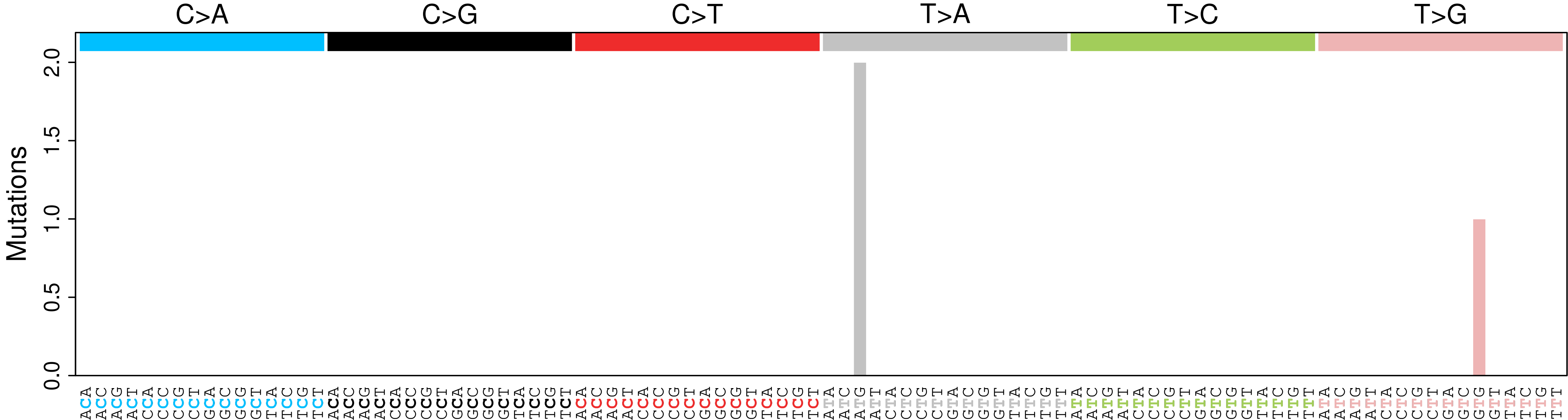
# CATD0738a



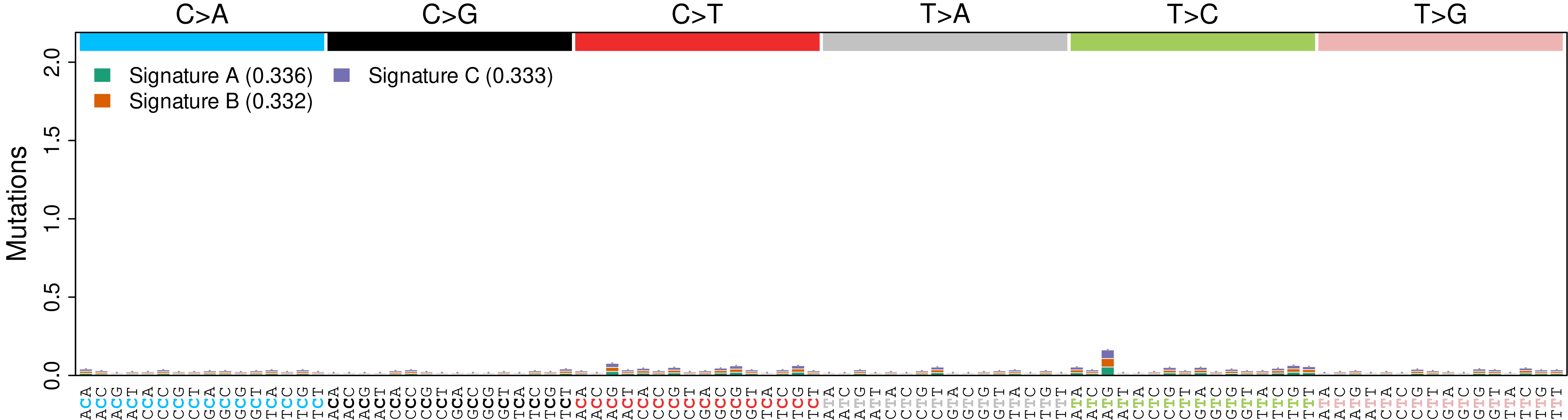
### Reconstructed spectrum (cosine similarity = 0.128)

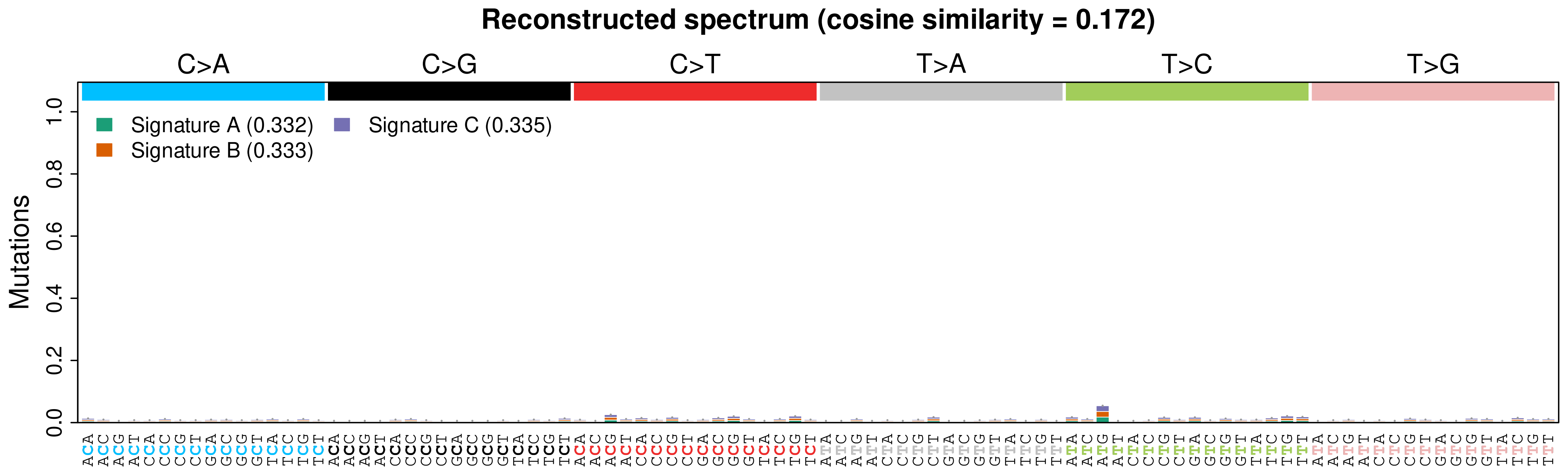
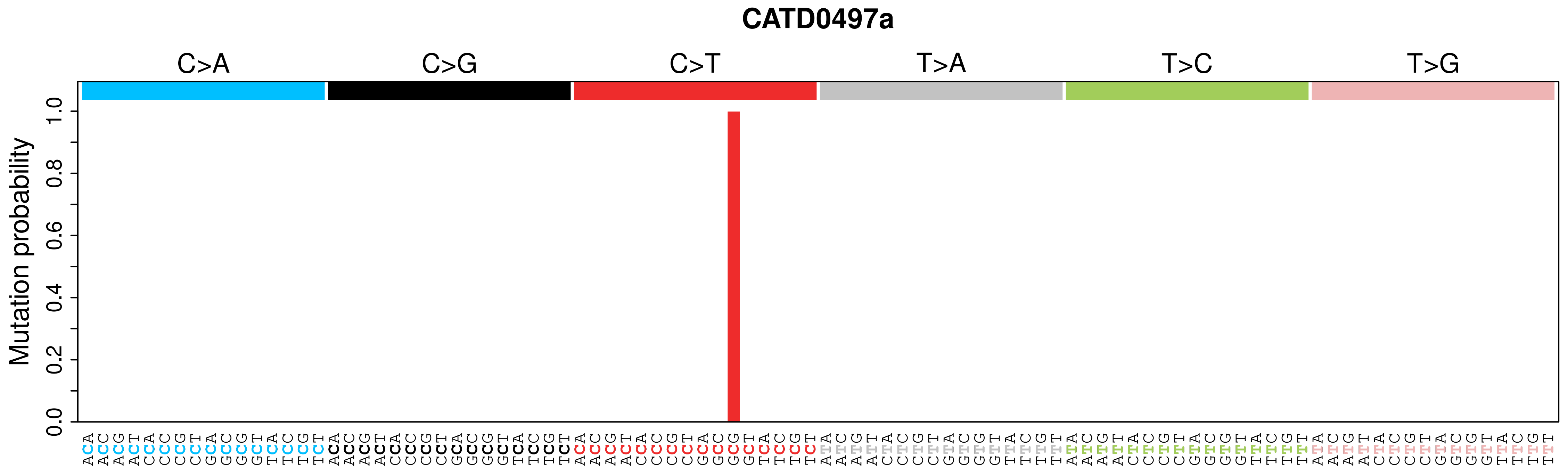


CATD0692a (3 mutations)



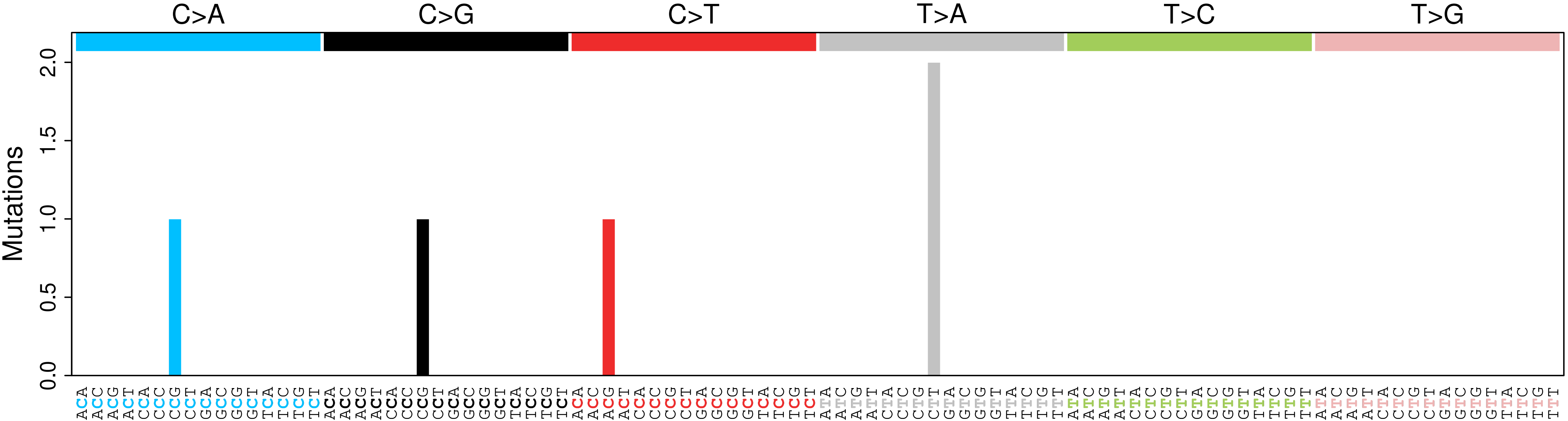
Reconstructed spectrum (cosine similarity = 0.14)



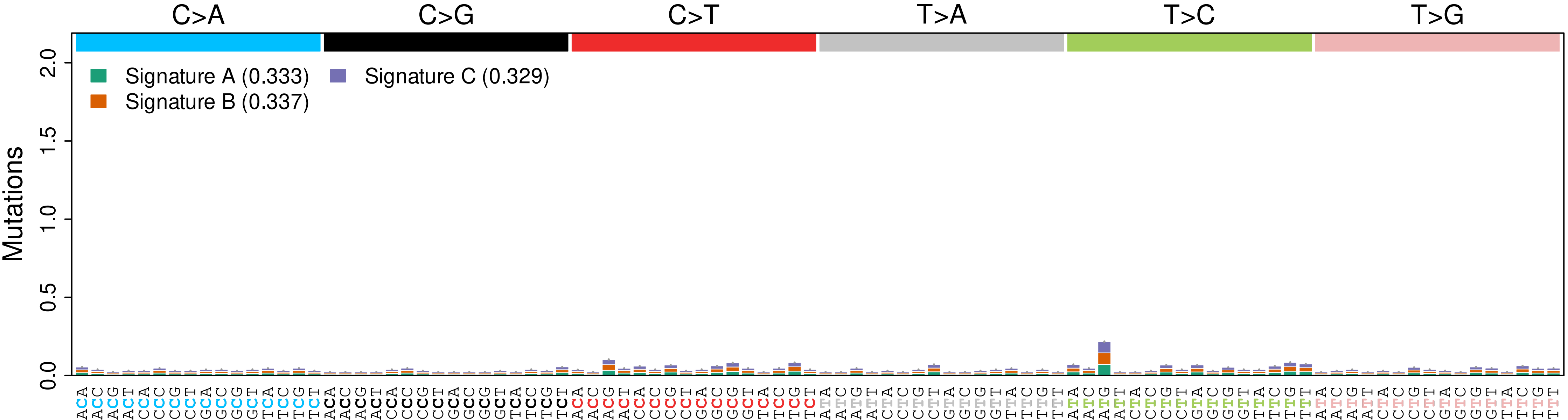




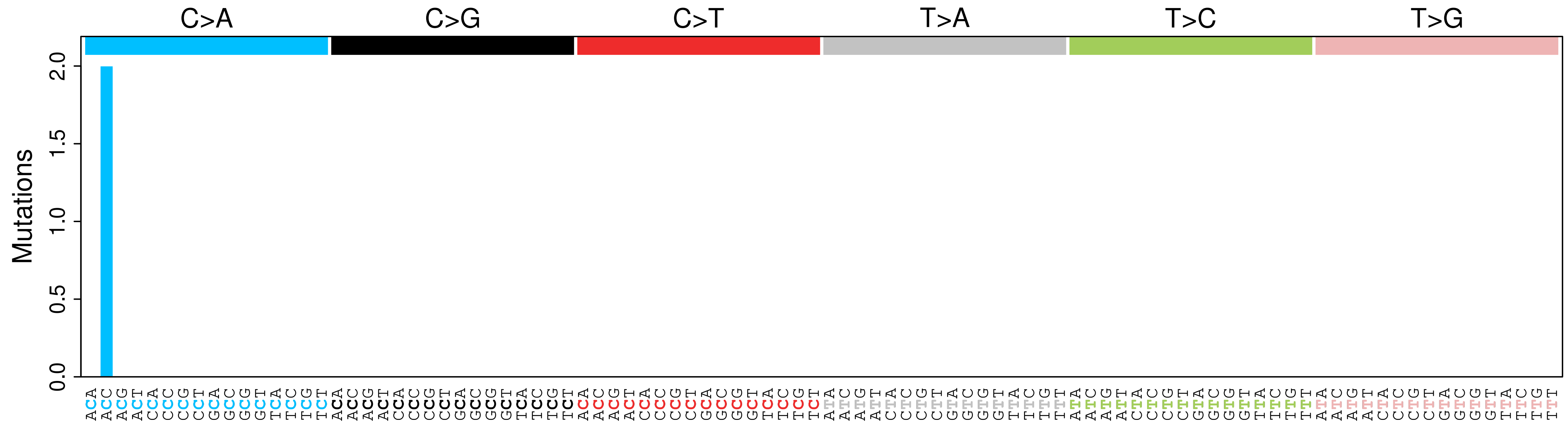
CATD0498a (5 mutations)



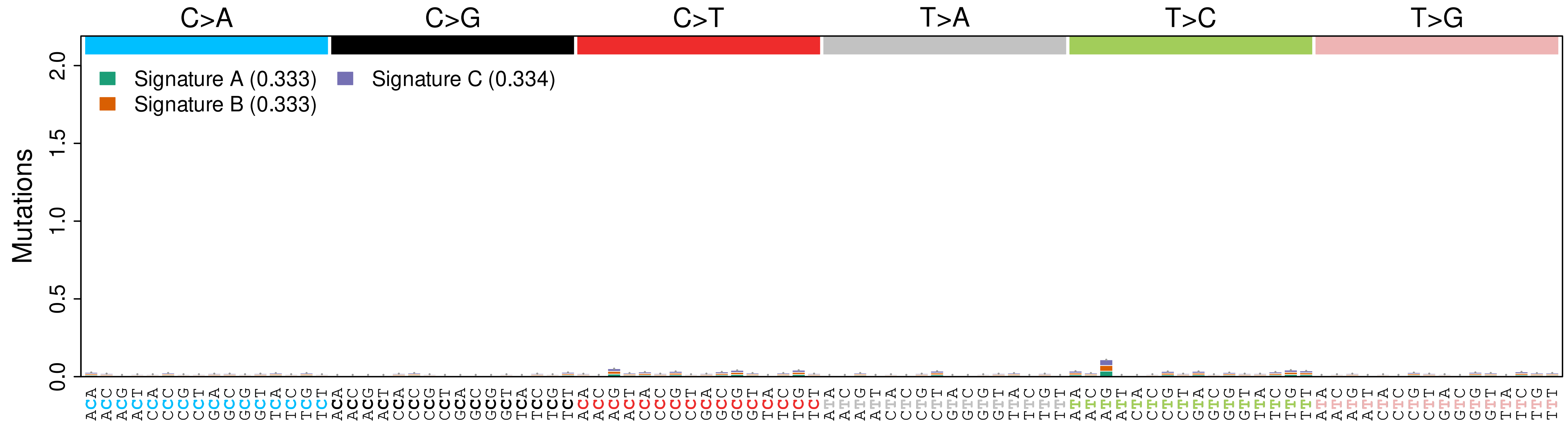
Reconstructed spectrum (cosine similarity = 0.244)



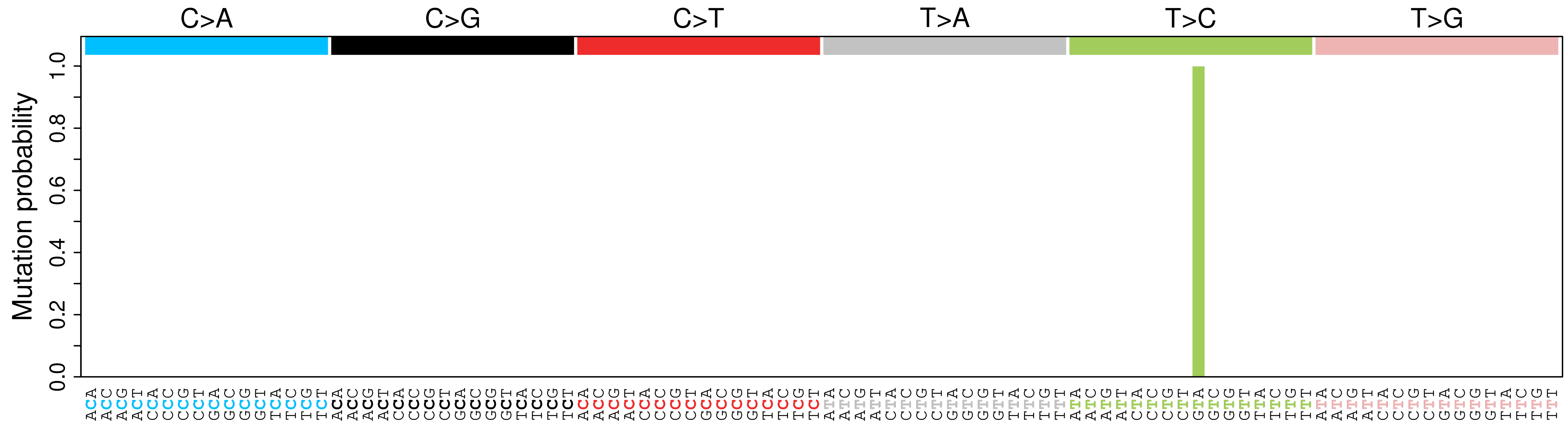
### CATD0699a (2 mutations)



### Reconstructed spectrum (cosine similarity = 0.083)



**CATD0695a**



### Reconstructed spectrum (cosine similarity = 0.143)

