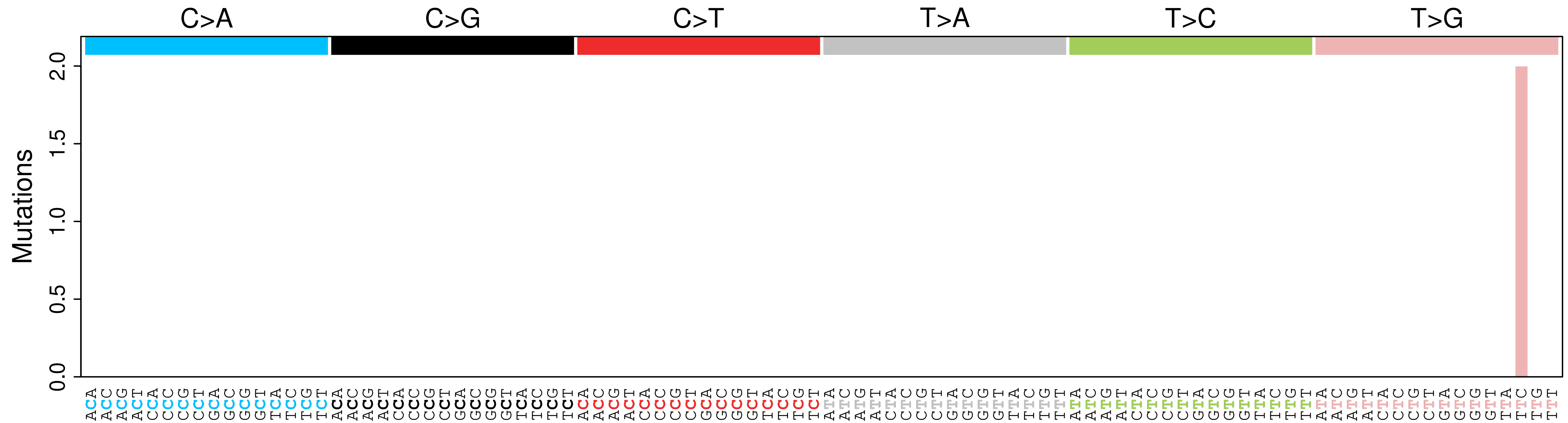
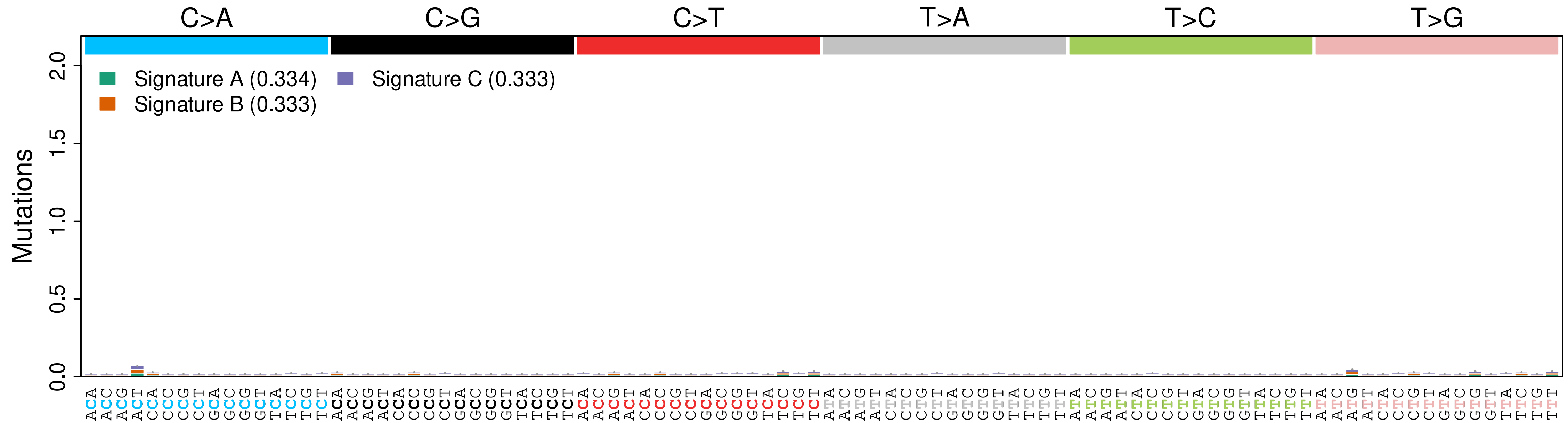


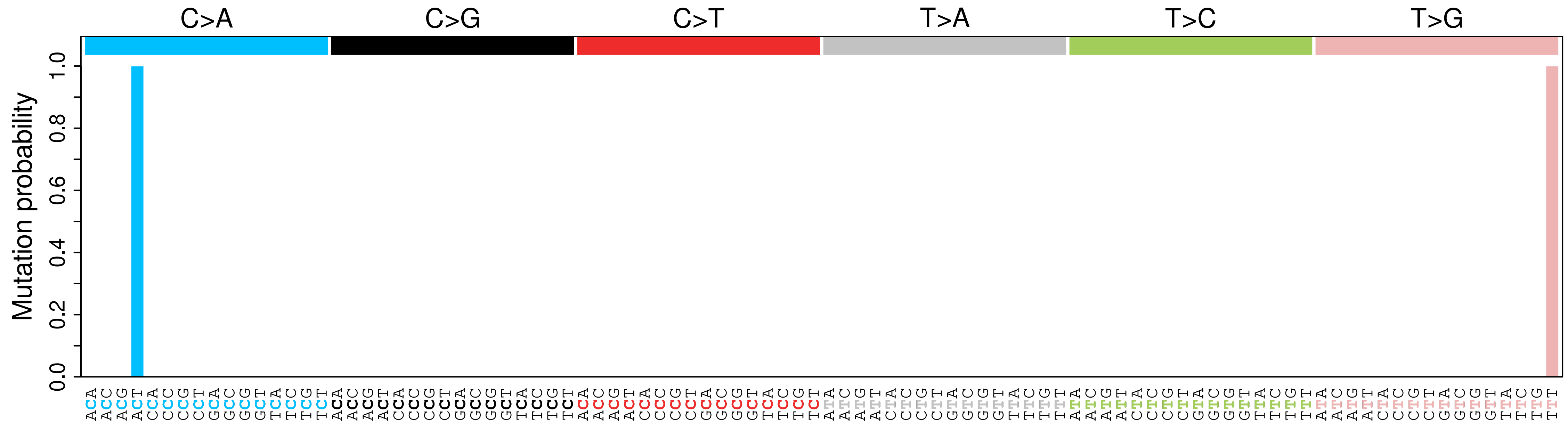
### CATD0161a (2 mutations)



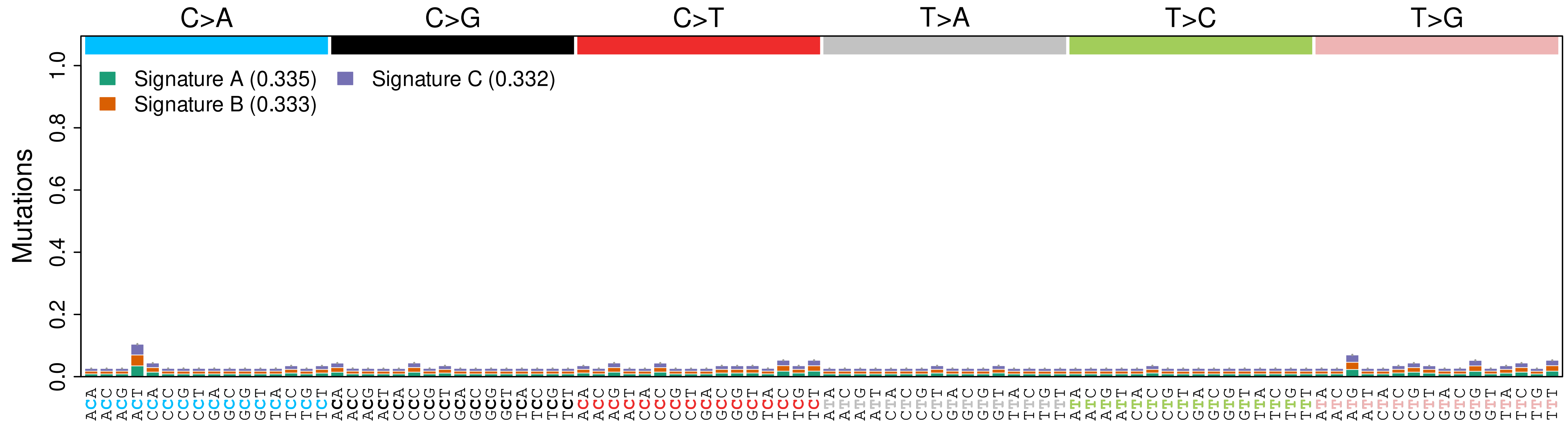
### Reconstructed spectrum (cosine similarity = 0.135)



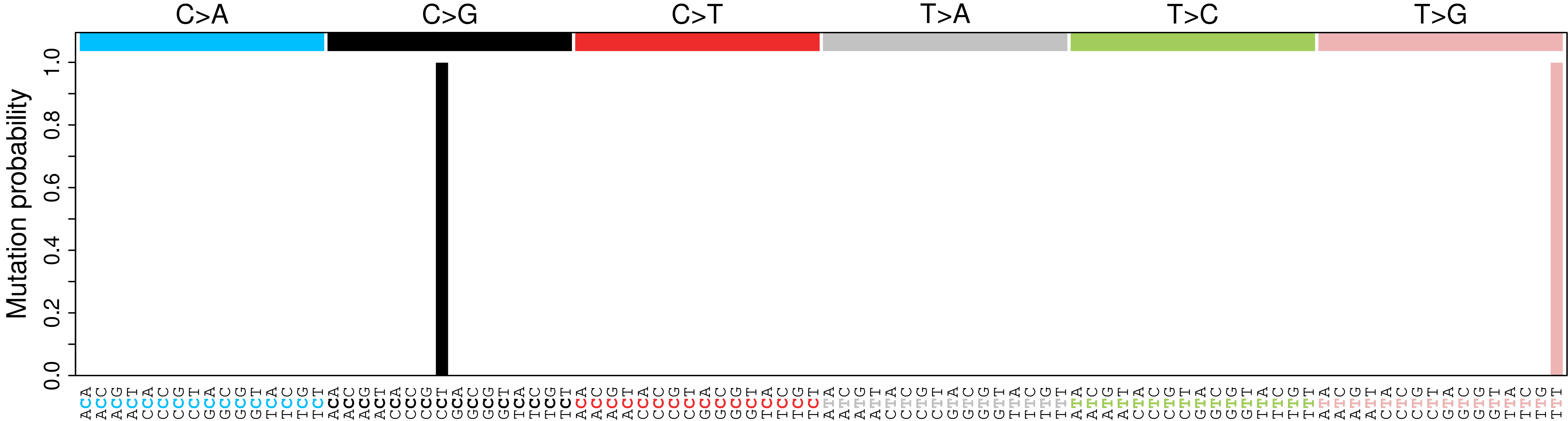
**CATD0371a**



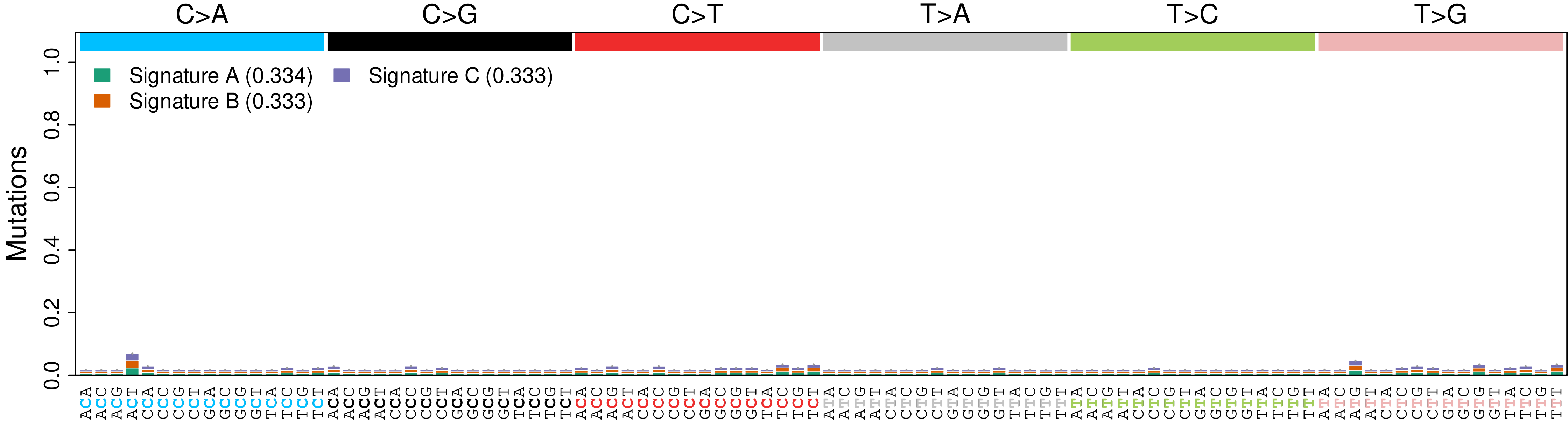
### Reconstructed spectrum (cosine similarity = 0.342)



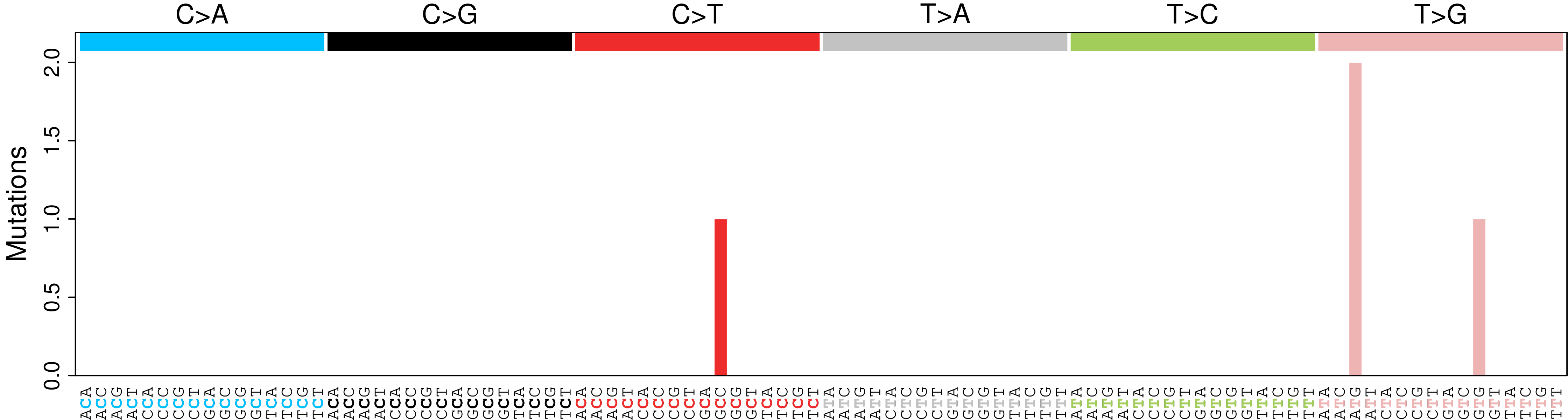
CATD0354a



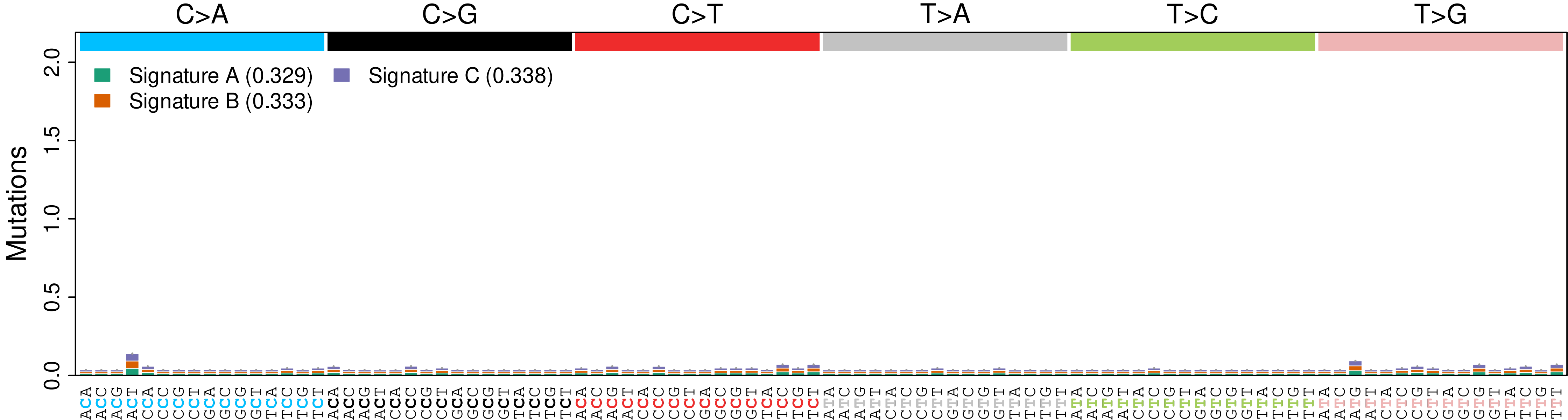
Reconstructed spectrum (cosine similarity = 0.191)



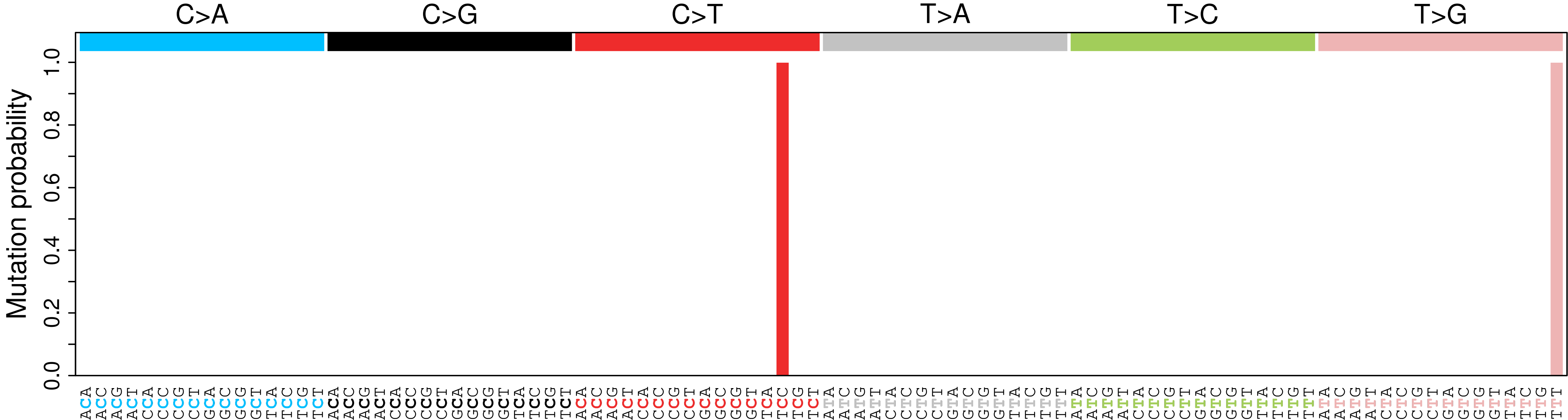
CATD0372a (4 mutations)



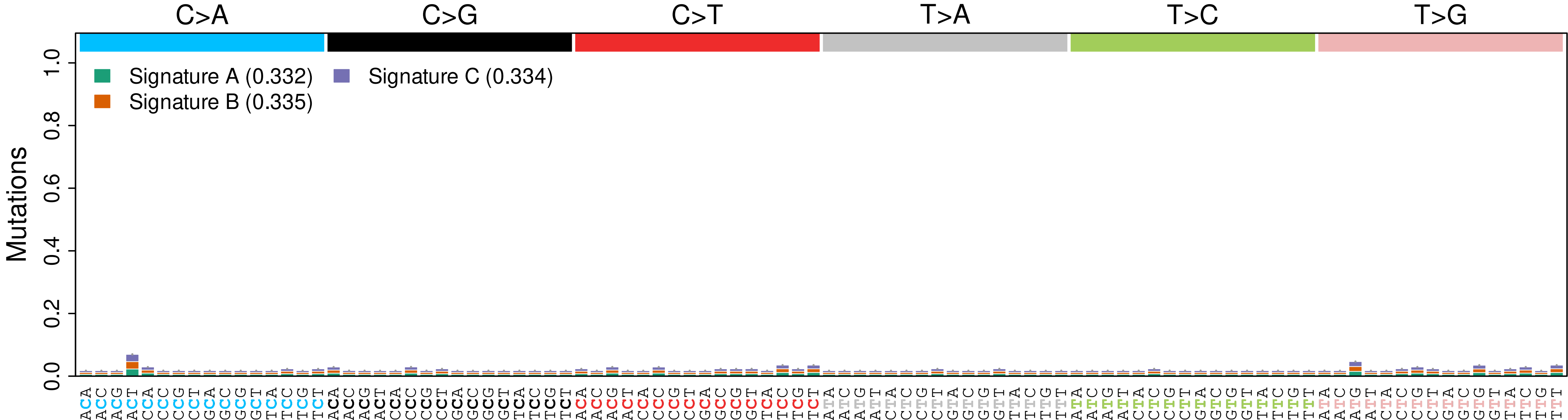
Reconstructed spectrum (cosine similarity = 0.285)



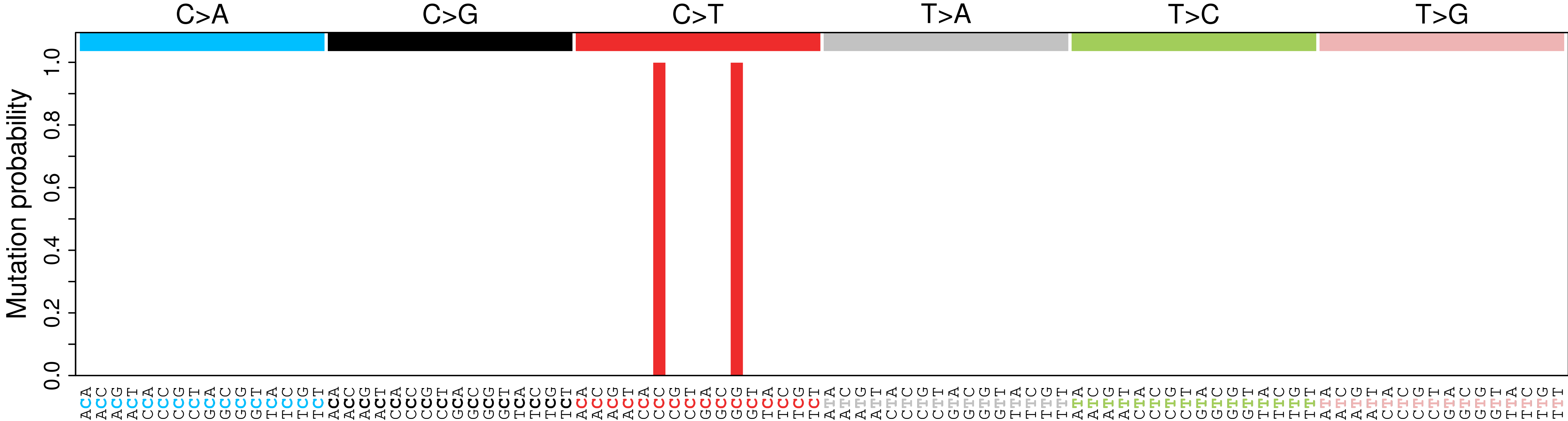
CATD0352a



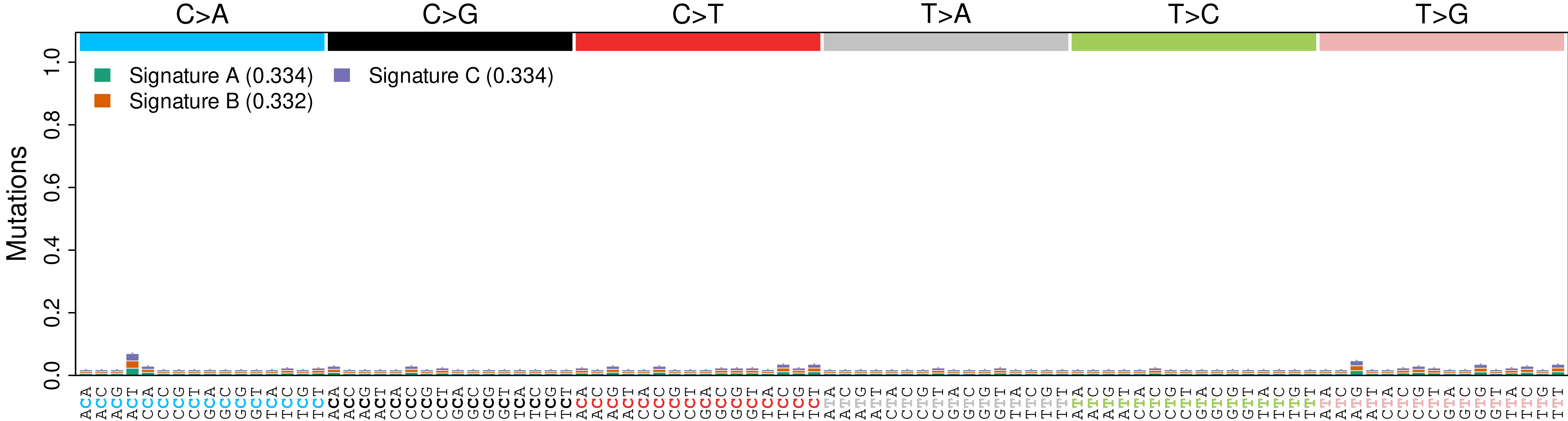
Reconstructed spectrum (cosine similarity = 0.23)



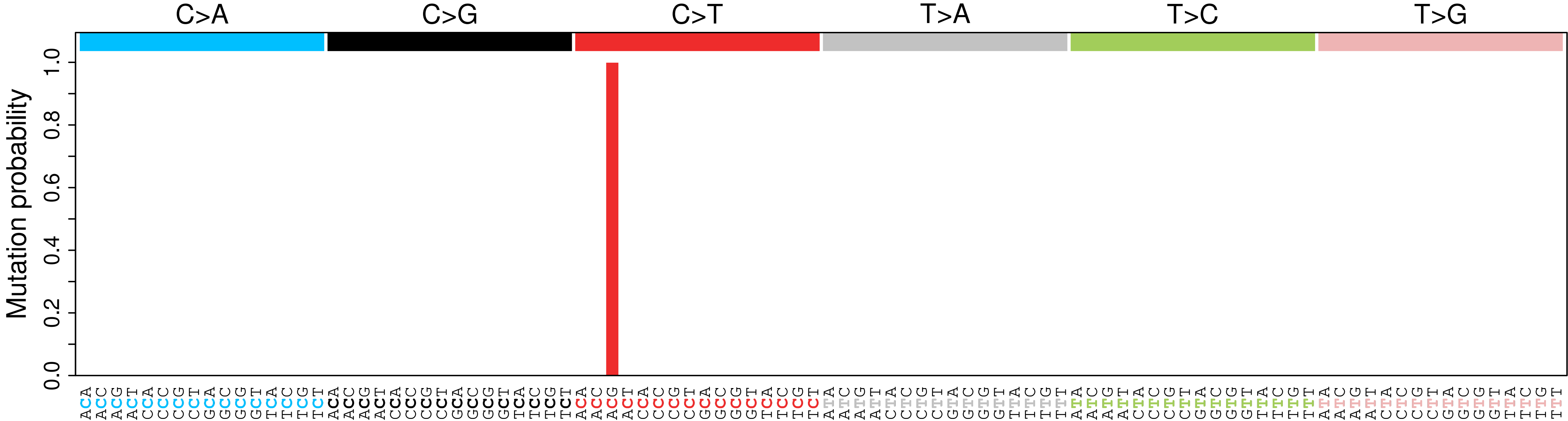
CATD0366a



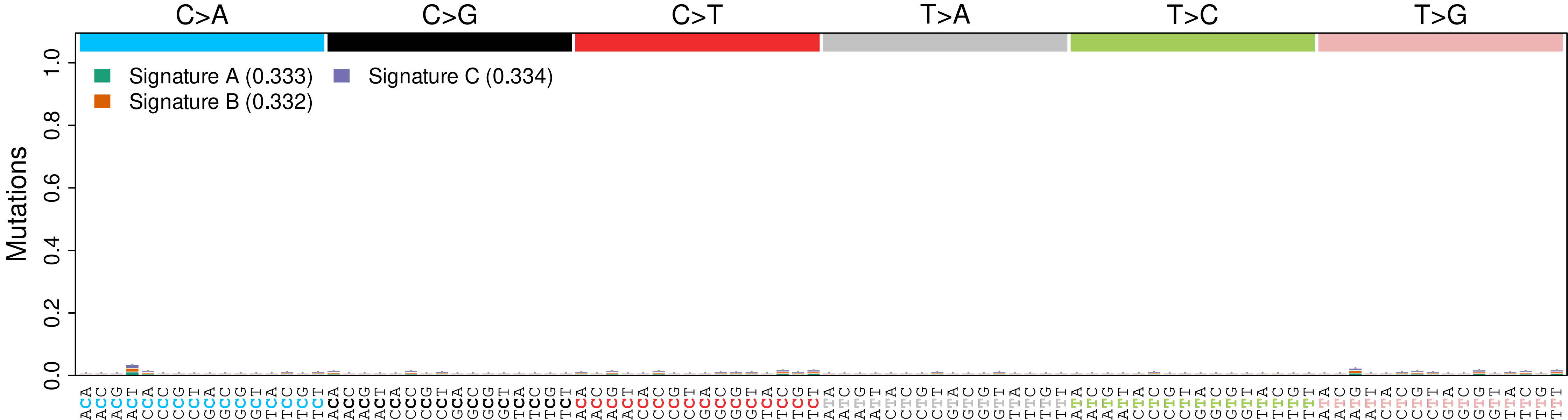
Reconstructed spectrum (cosine similarity = 0.171)



CATD0180a

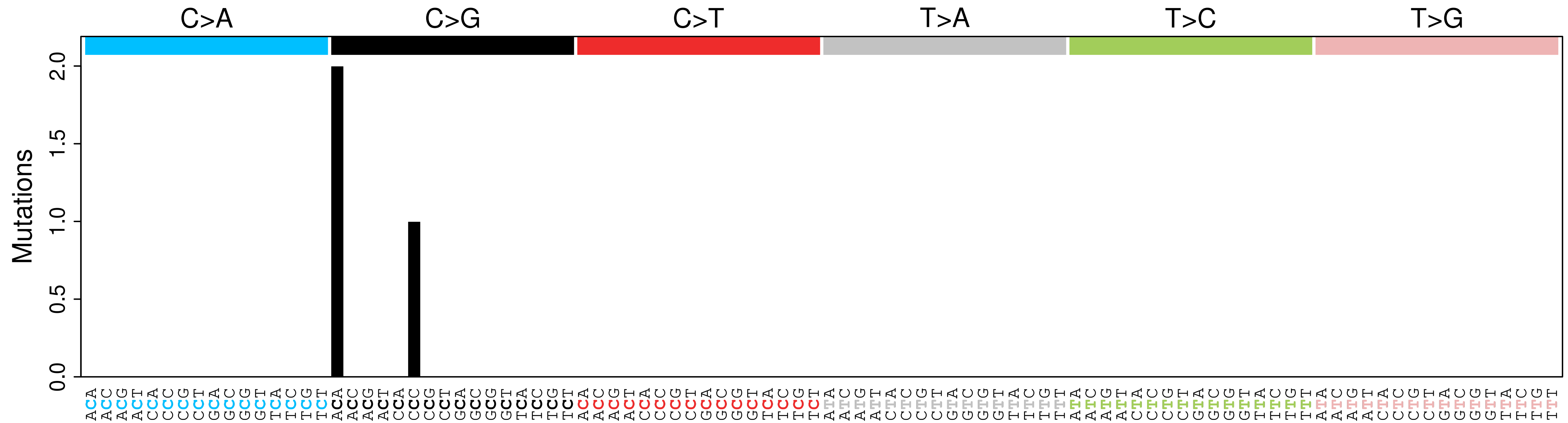


Reconstructed spectrum (cosine similarity = 0.135)

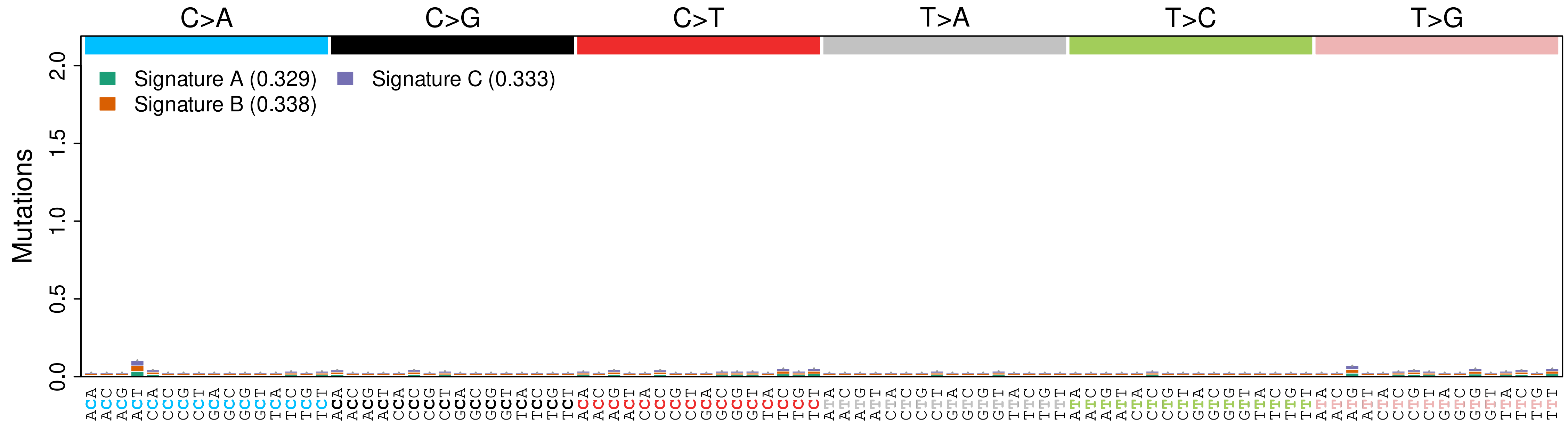




### CATD0375a (3 mutations)

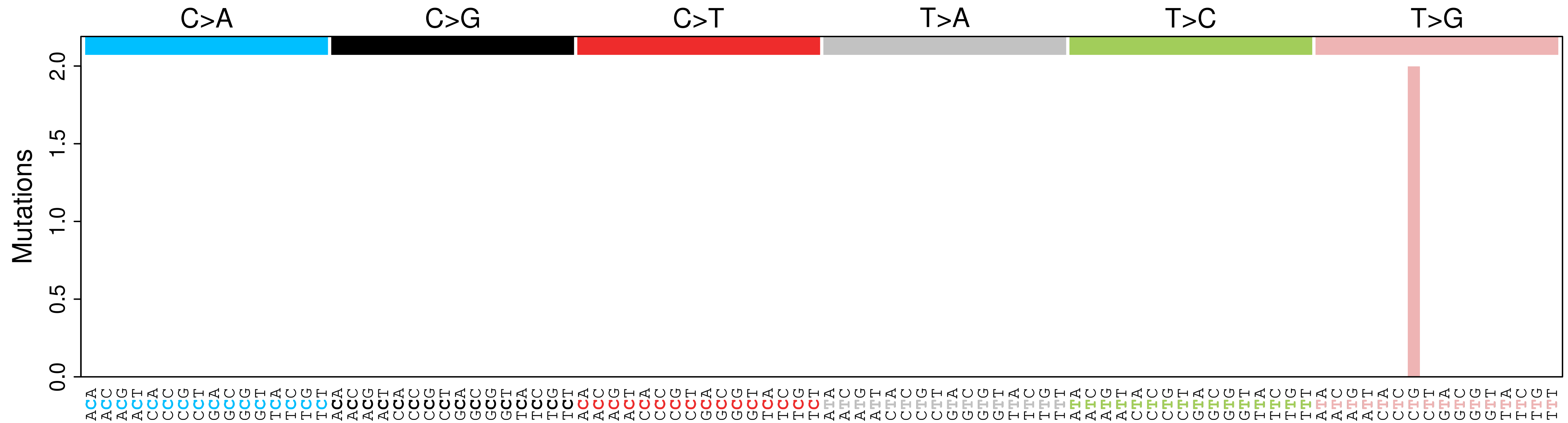


### Reconstructed spectrum (cosine similarity = 0.181)

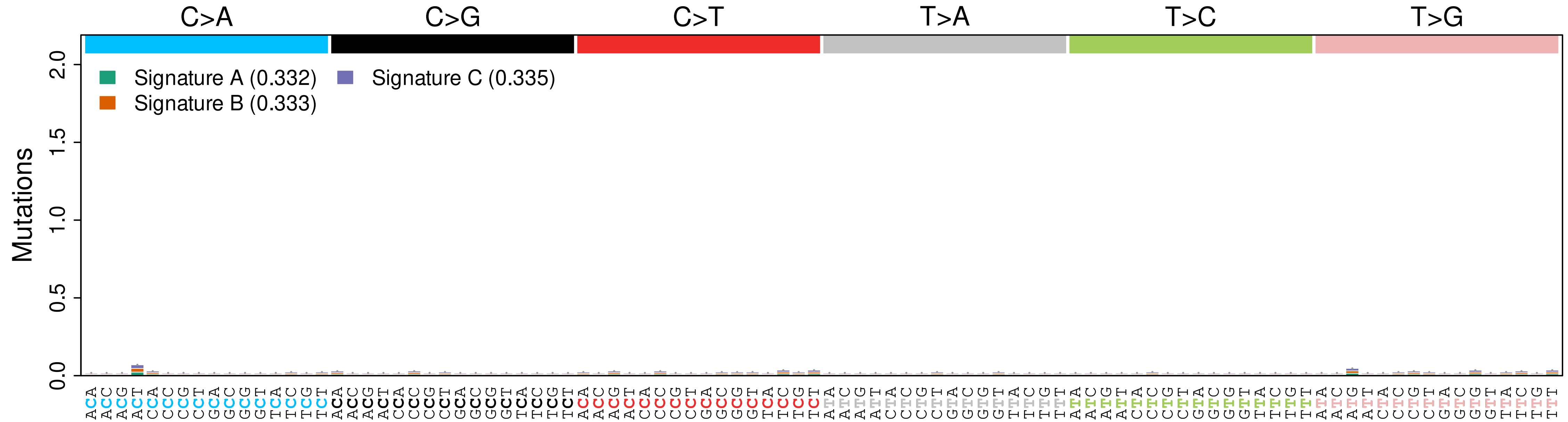




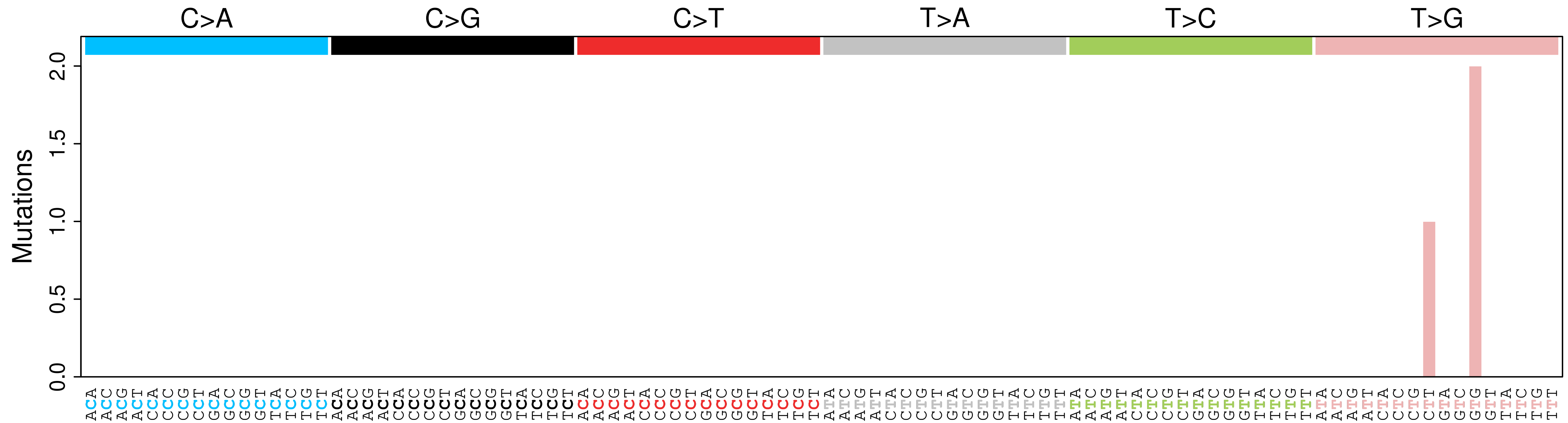
### CATD0351a (2 mutations)



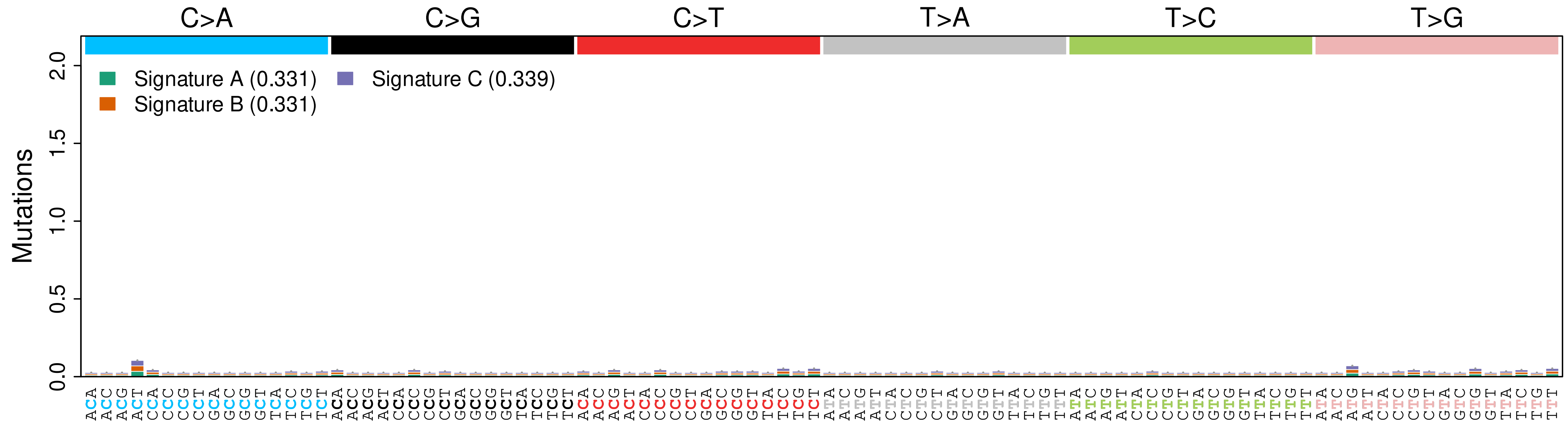
### Reconstructed spectrum (cosine similarity = 0.135)



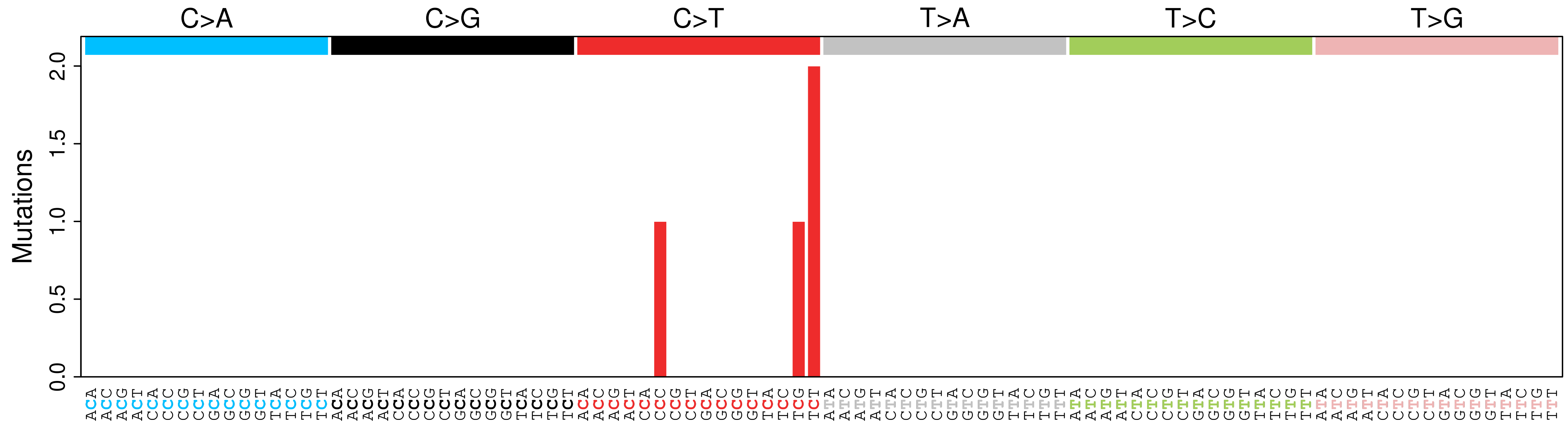
### CATD0182a (3 mutations)



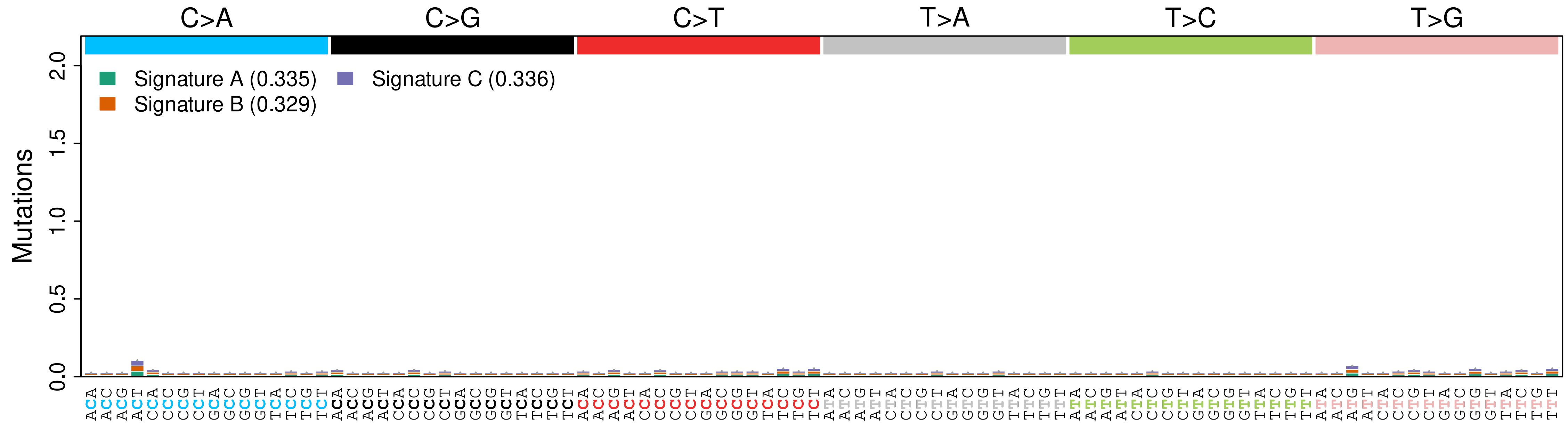
### Reconstructed spectrum (cosine similarity = 0.192)



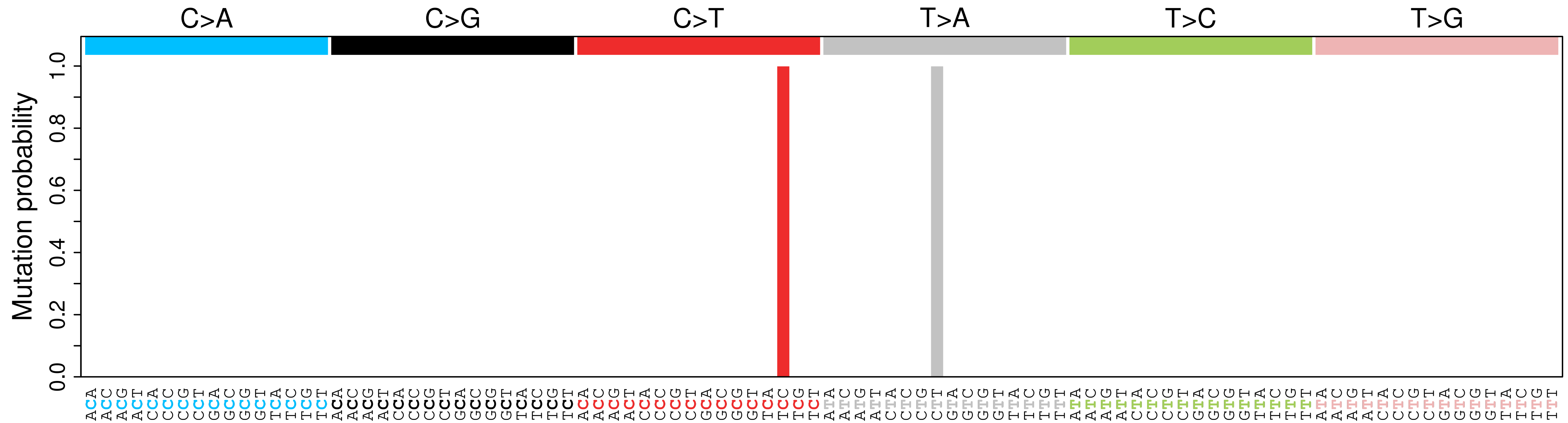
### CATD0184a (4 mutations)



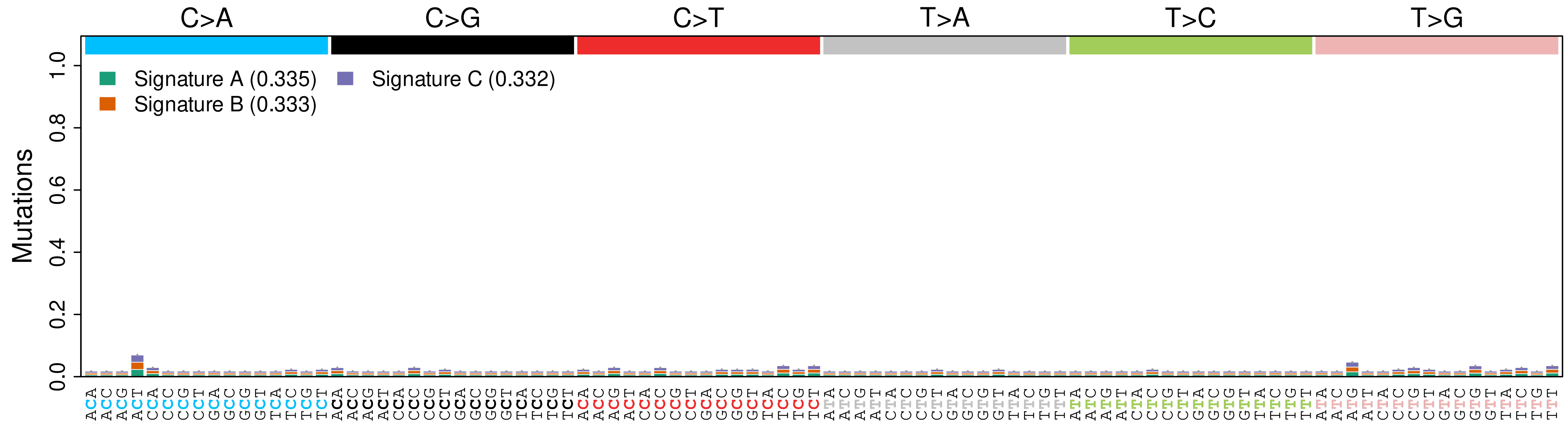
### Reconstructed spectrum (cosine similarity = 0.231)



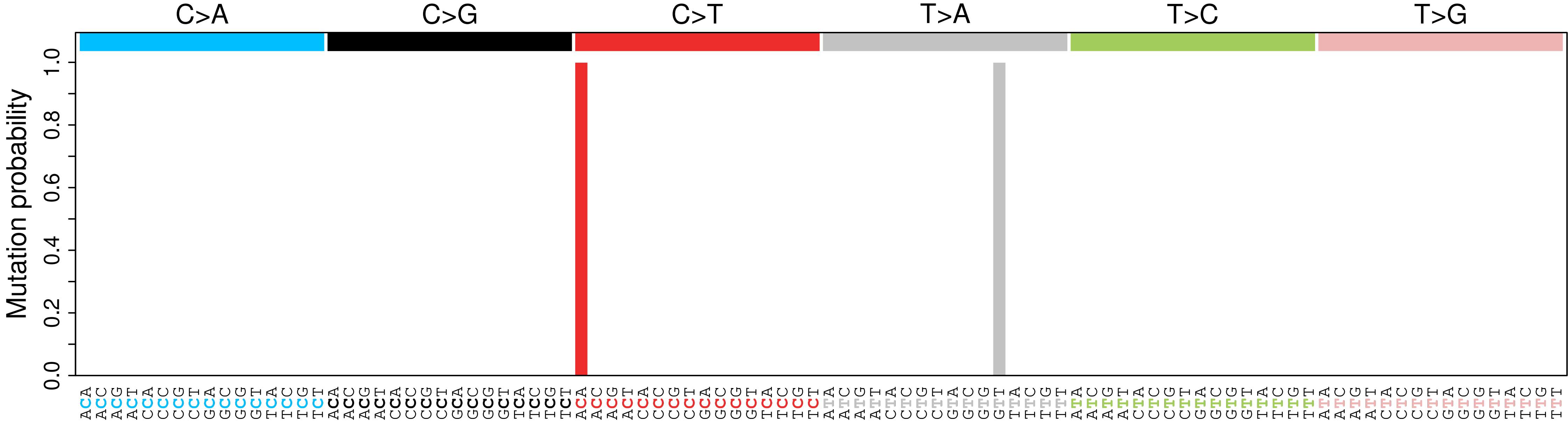
**CATD0179a**



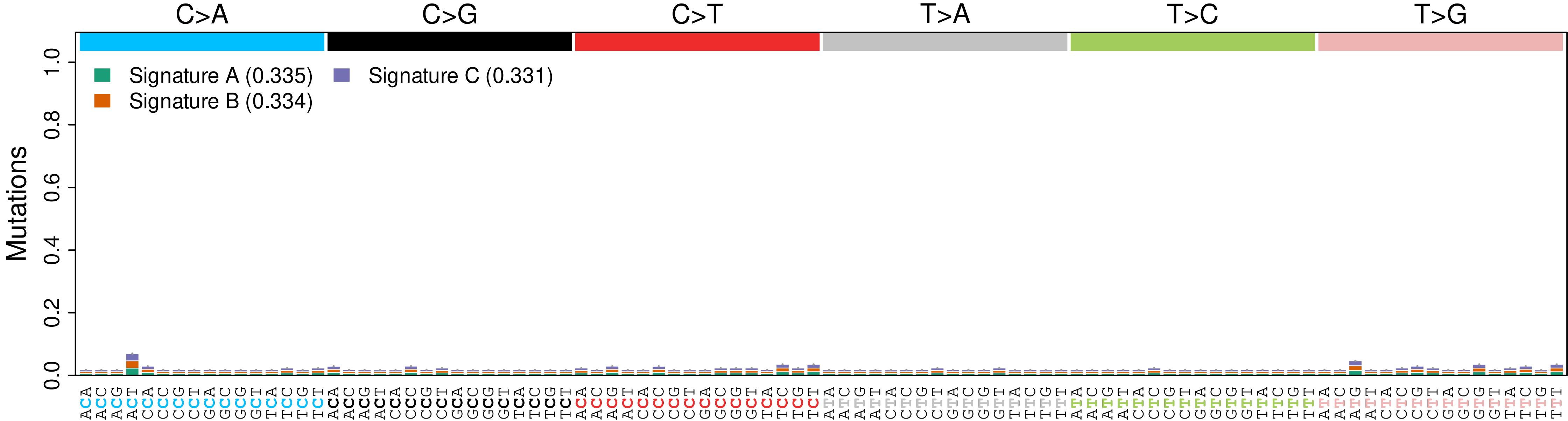
### Reconstructed spectrum (cosine similarity = 0.191)



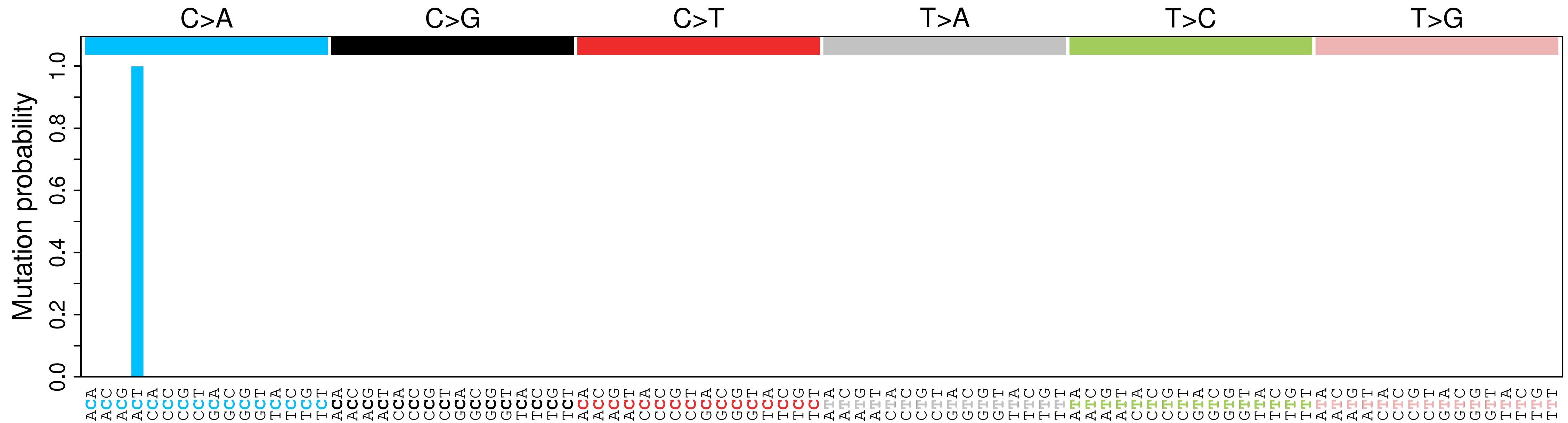
CATD0370a



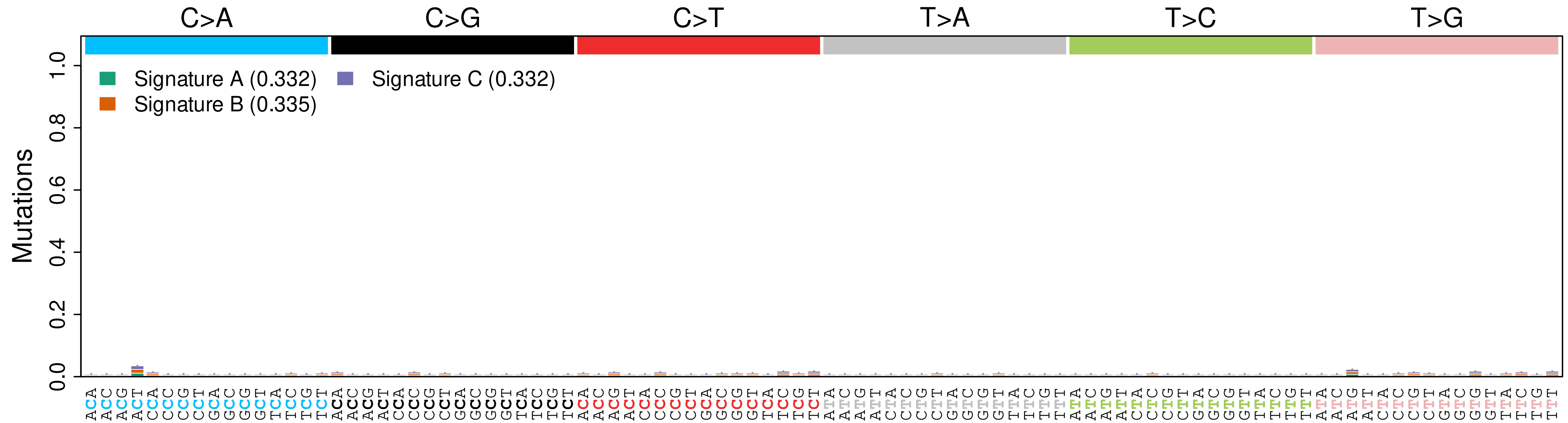
Reconstructed spectrum (cosine similarity = 0.153)



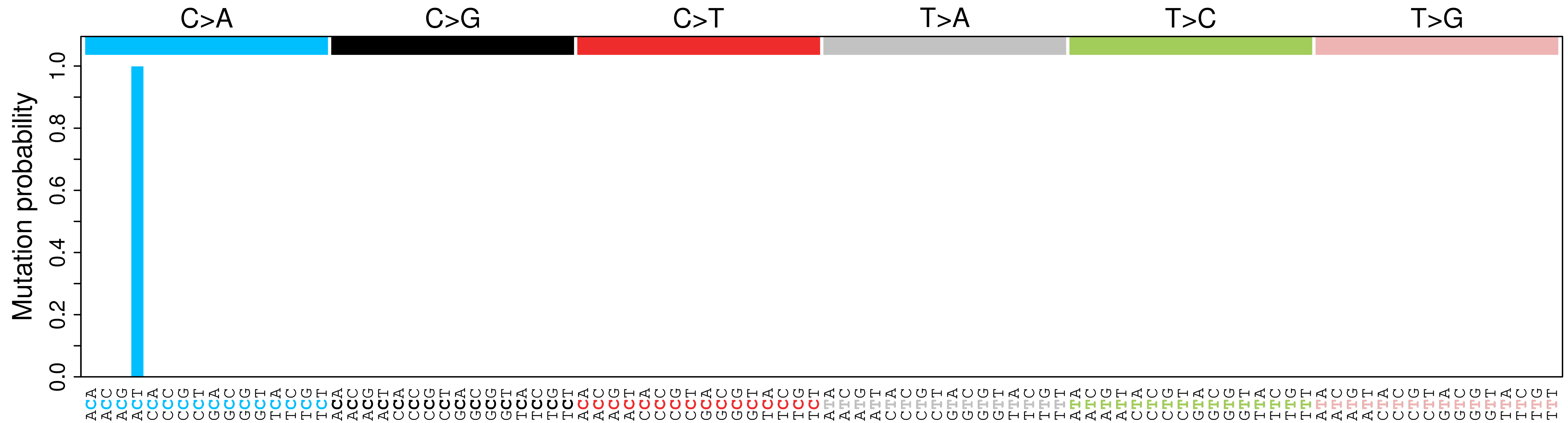
**CATD0167a**



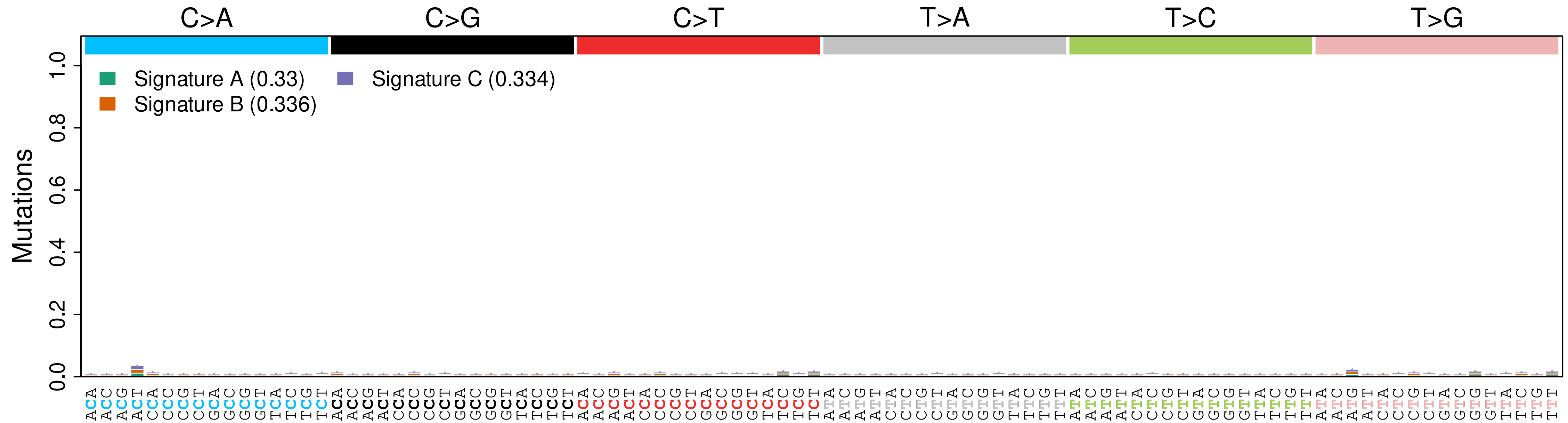
### Reconstructed spectrum (cosine similarity = 0.321)



**CATD0174a**

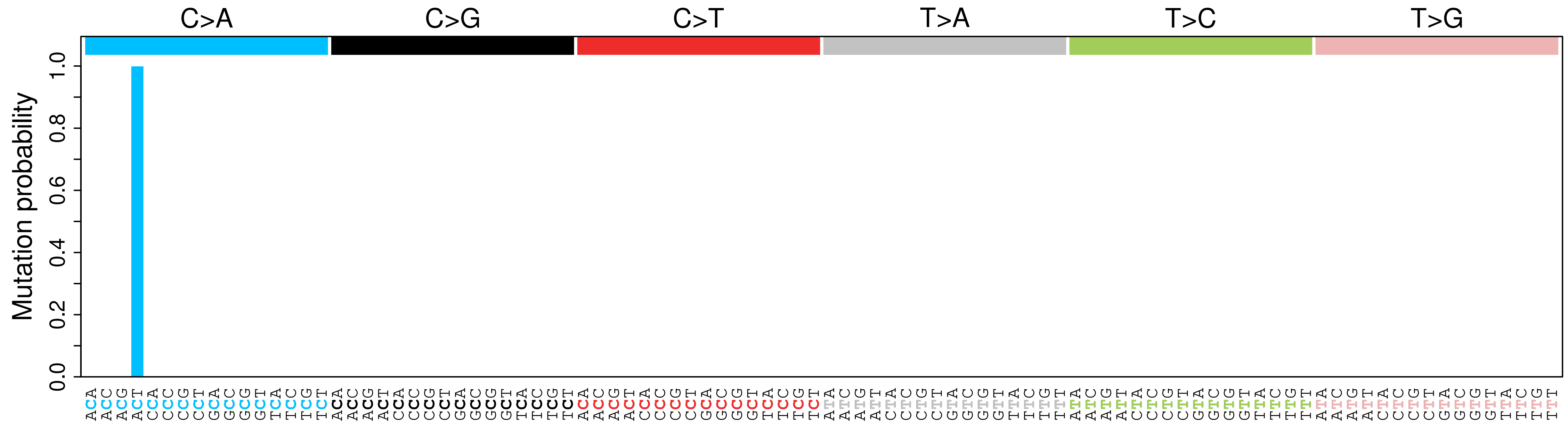


### Reconstructed spectrum (cosine similarity = 0.321)

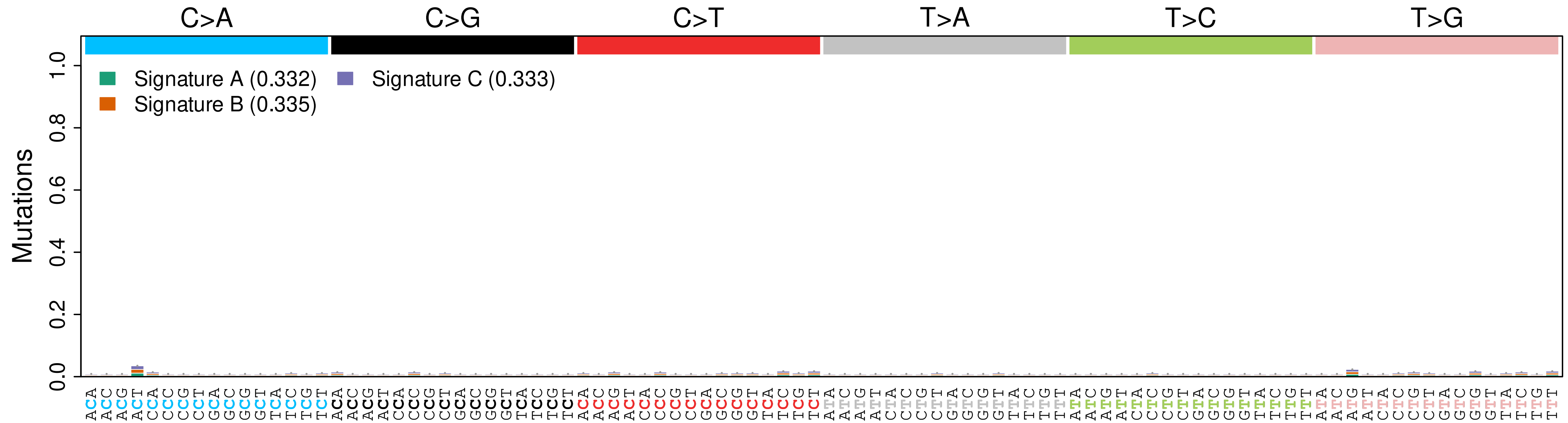




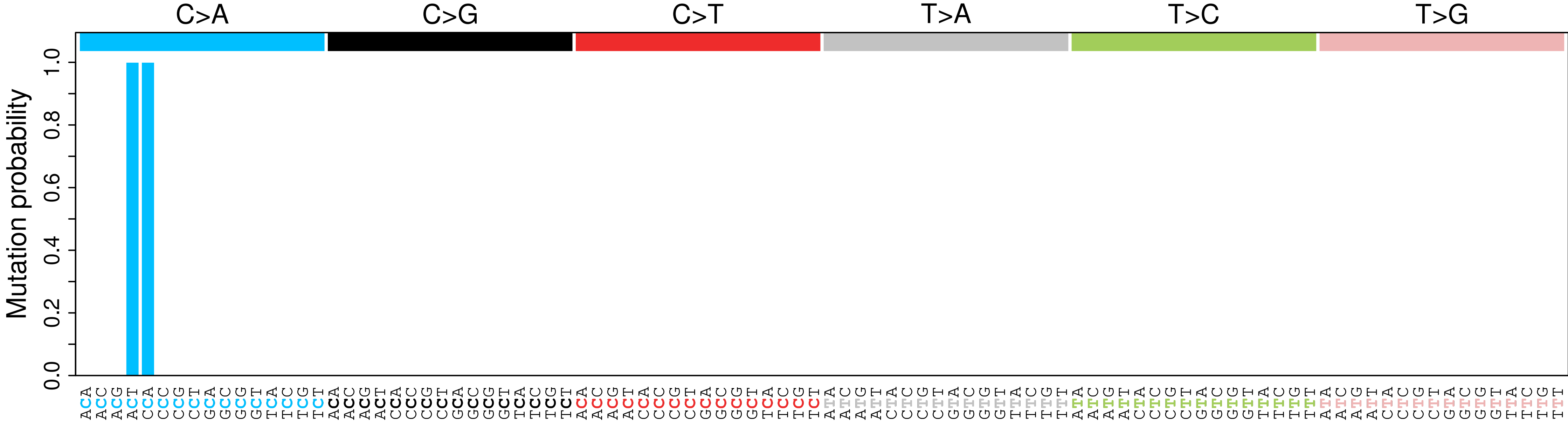
**CATD0175a**



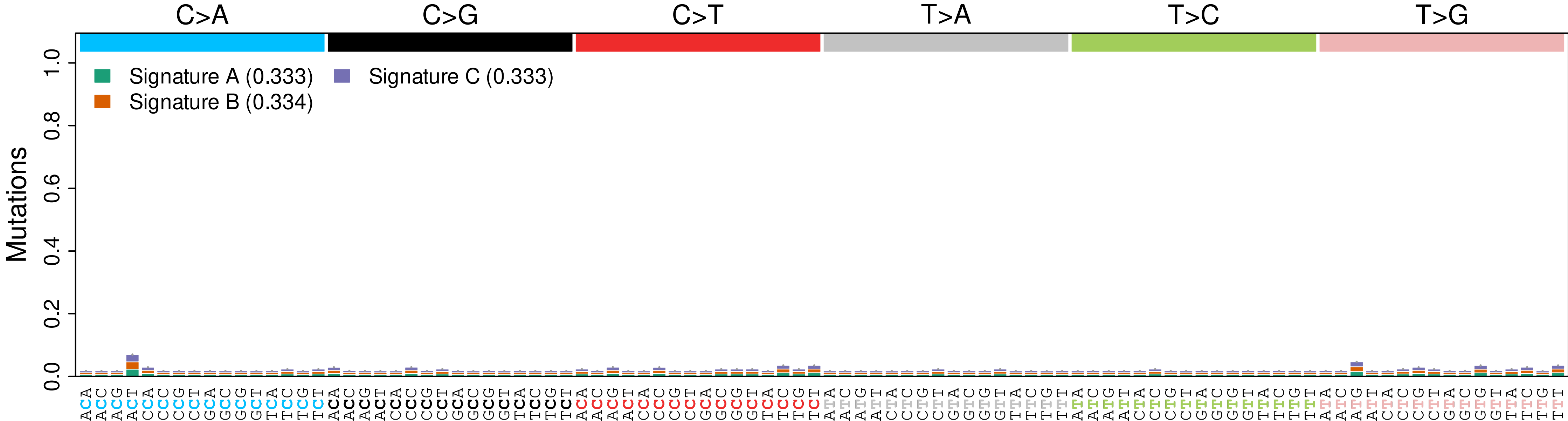
### Reconstructed spectrum (cosine similarity = 0.321)



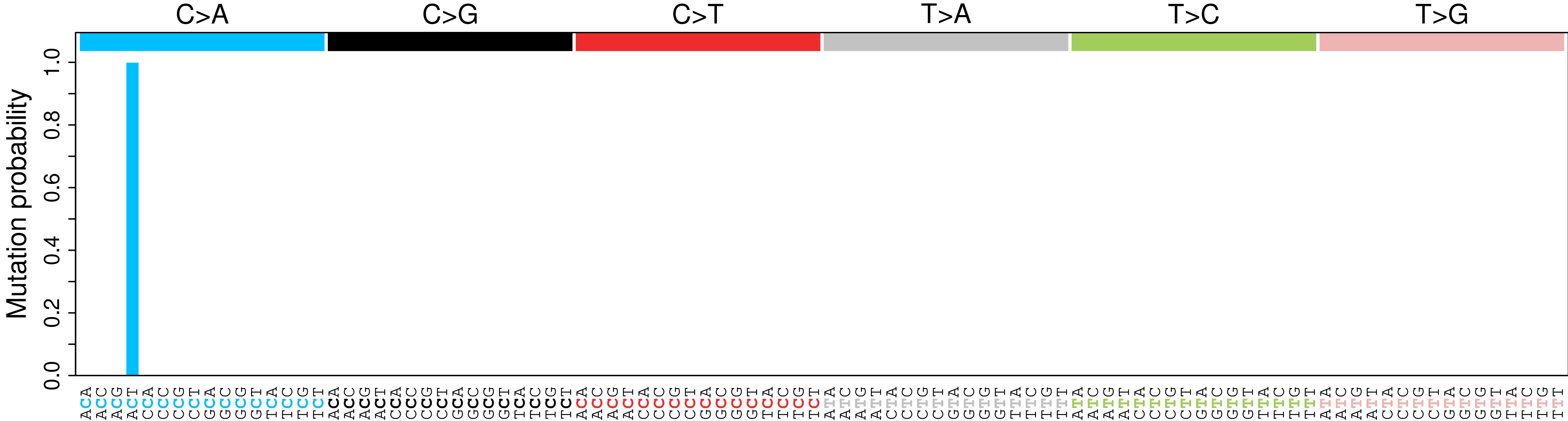
CATD0181a



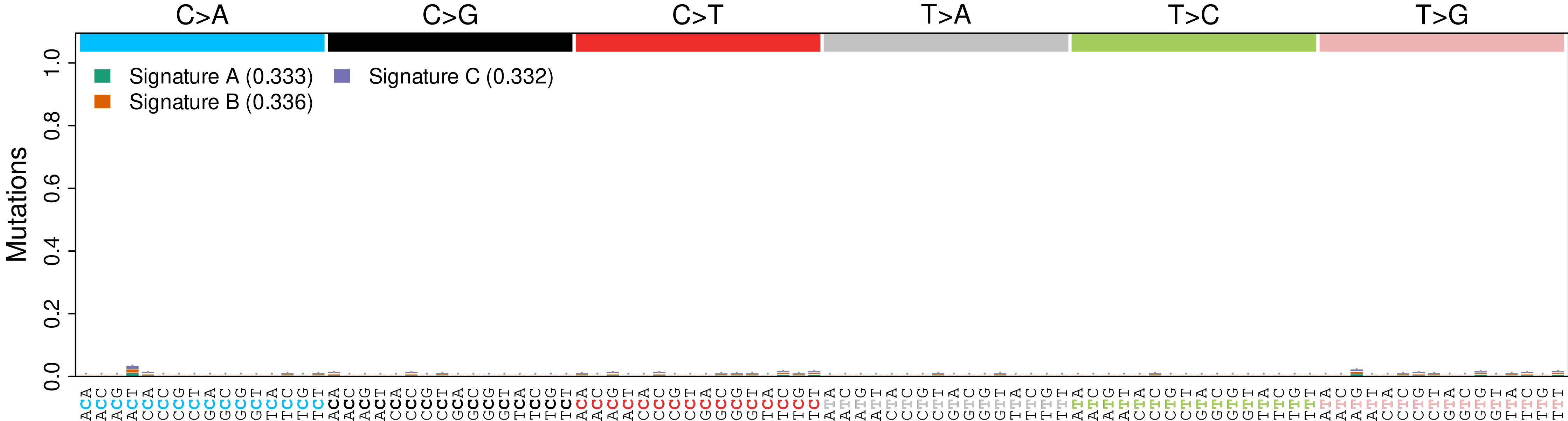
Reconstructed spectrum (cosine similarity = 0.322)



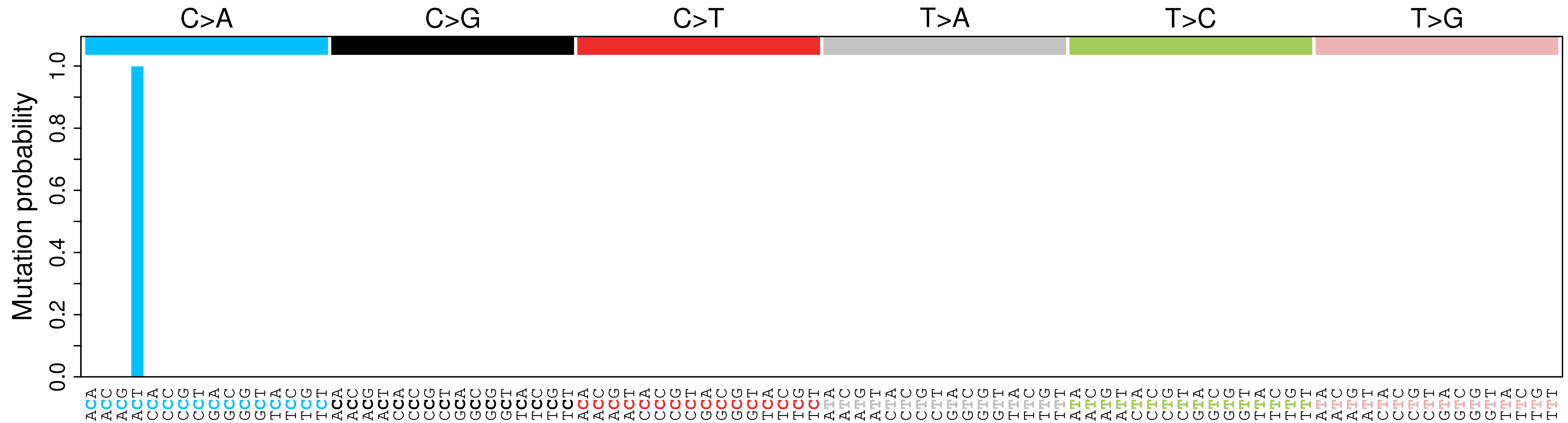
CATD0355a



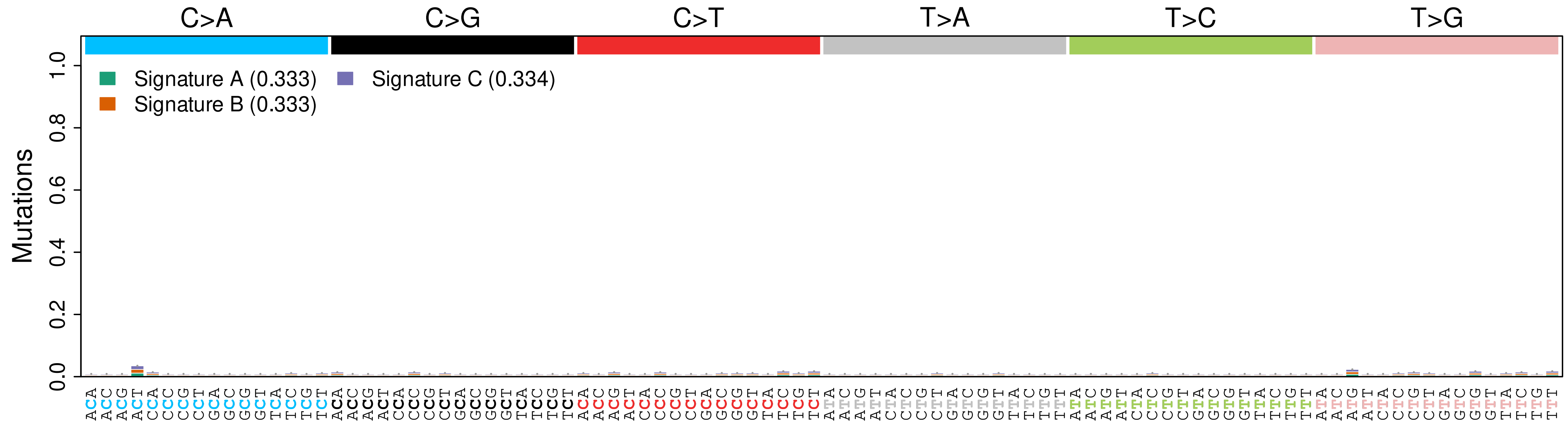
Reconstructed spectrum (cosine similarity = 0.321)



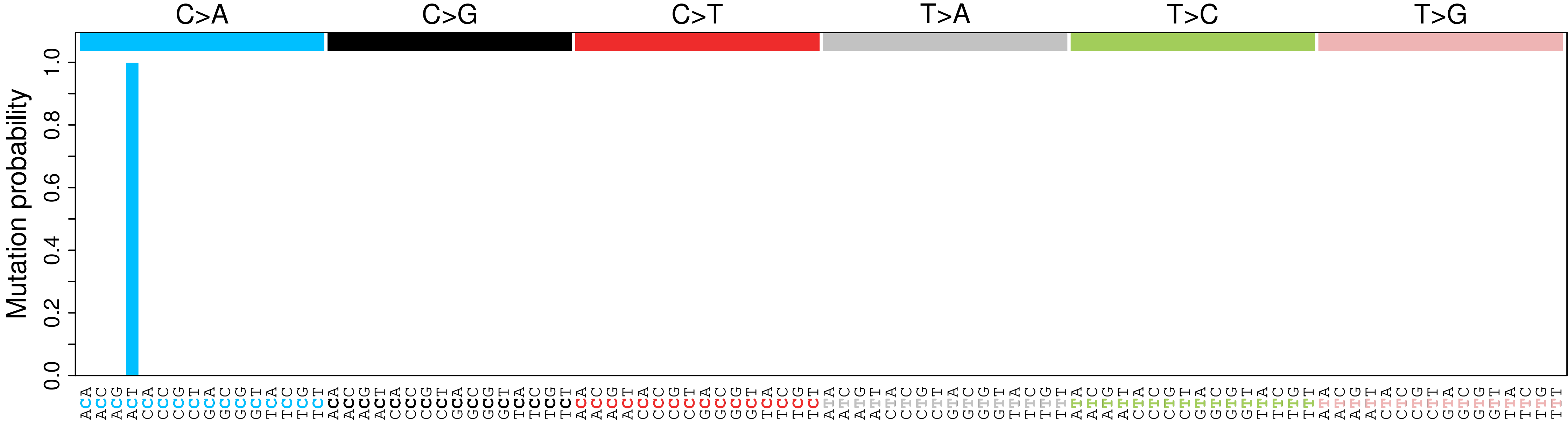
**CATD0362a**



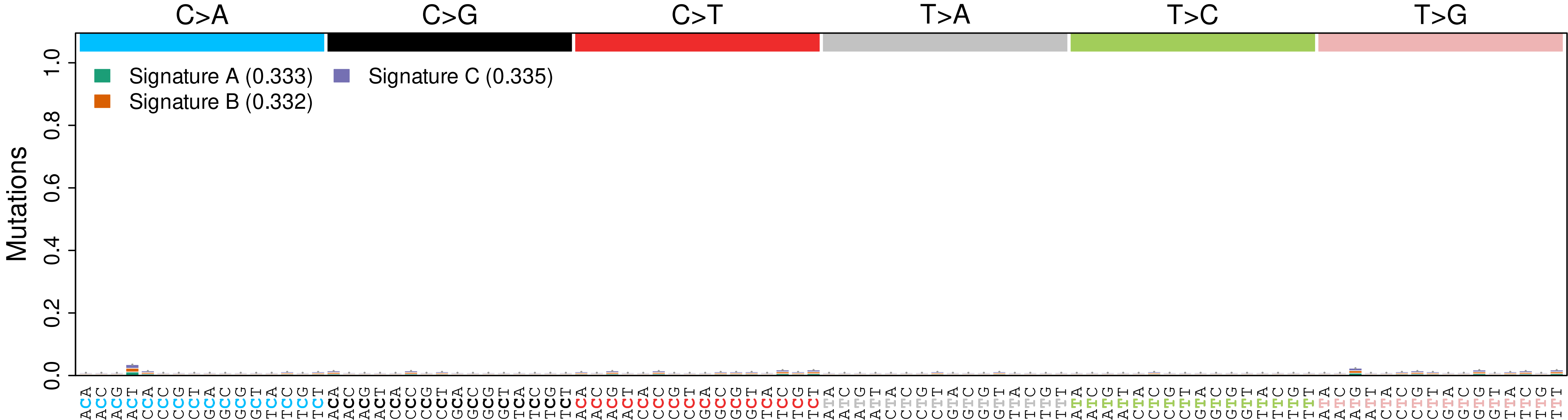
### Reconstructed spectrum (cosine similarity = 0.321)



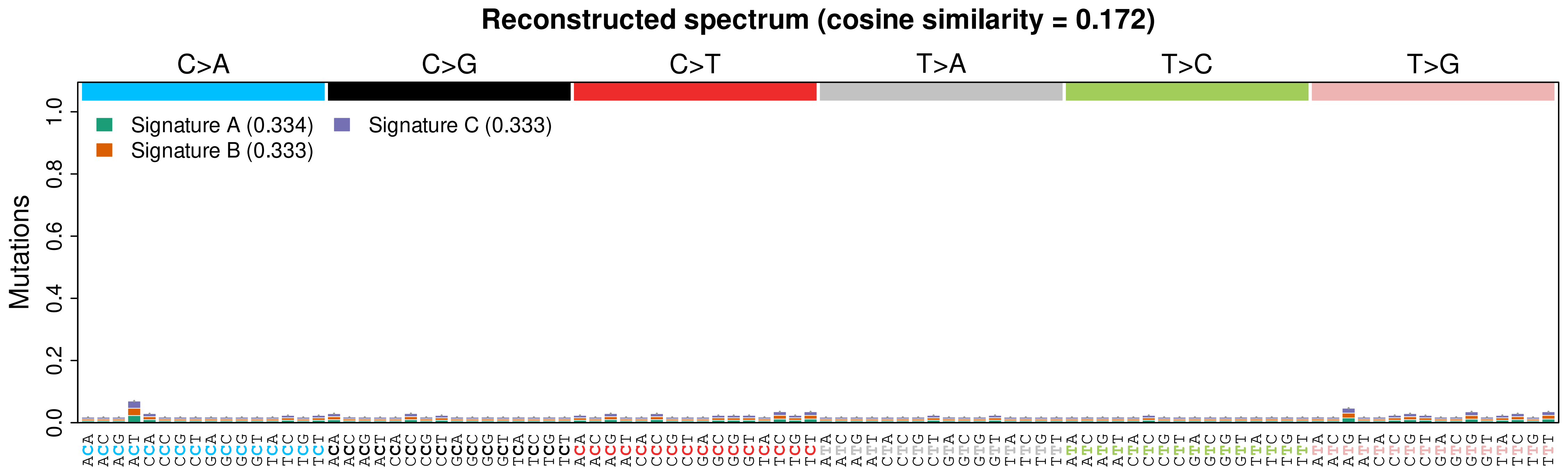
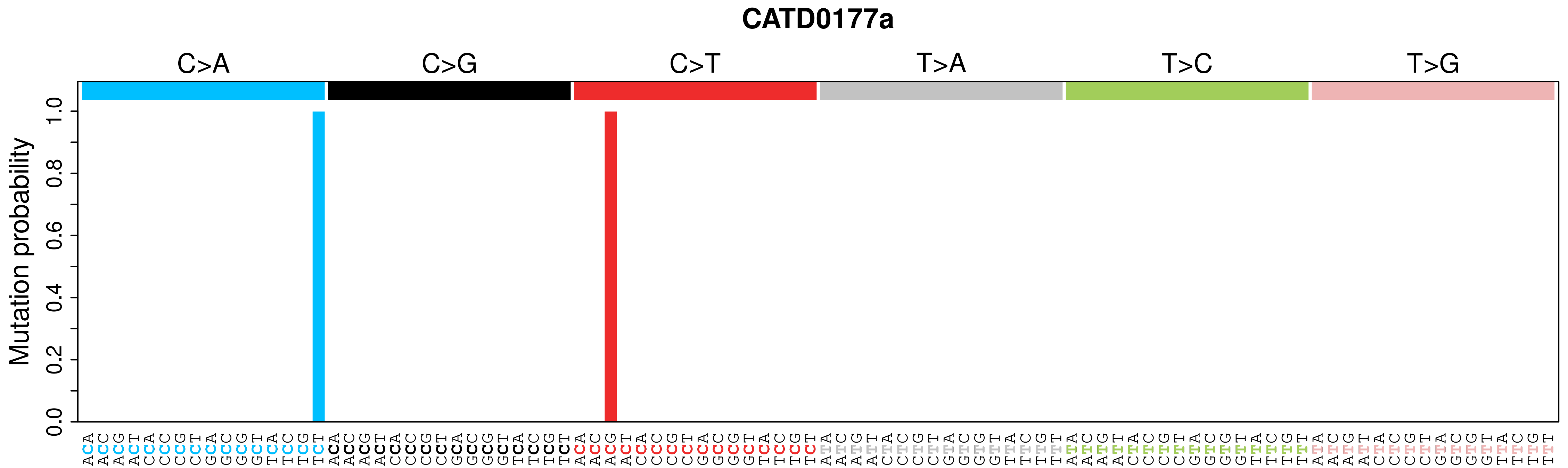
CATD0363a



Reconstructed spectrum (cosine similarity = 0.321)

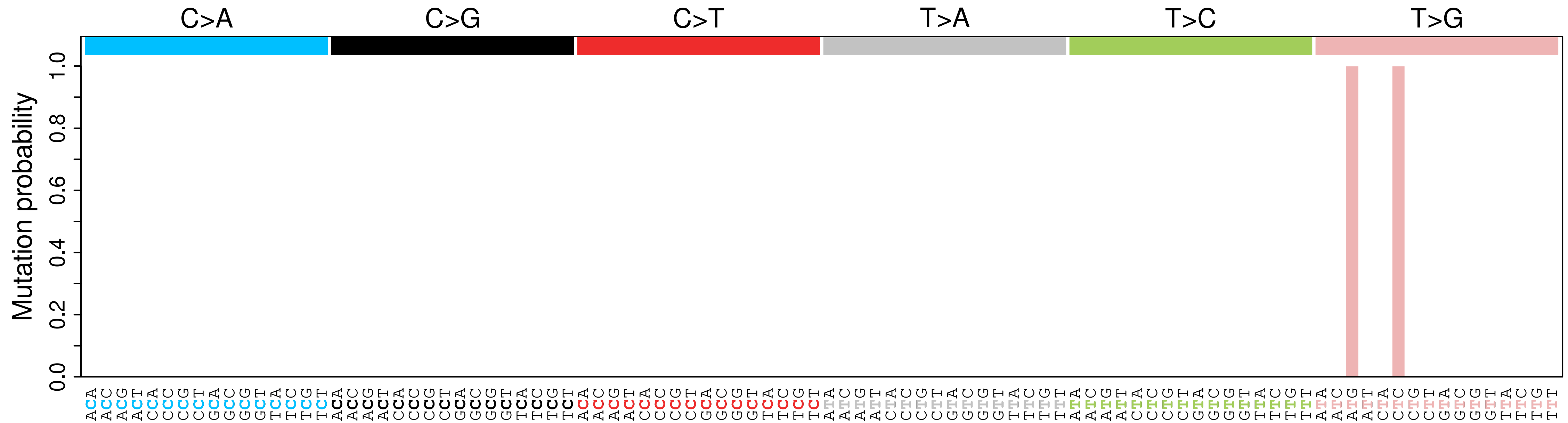




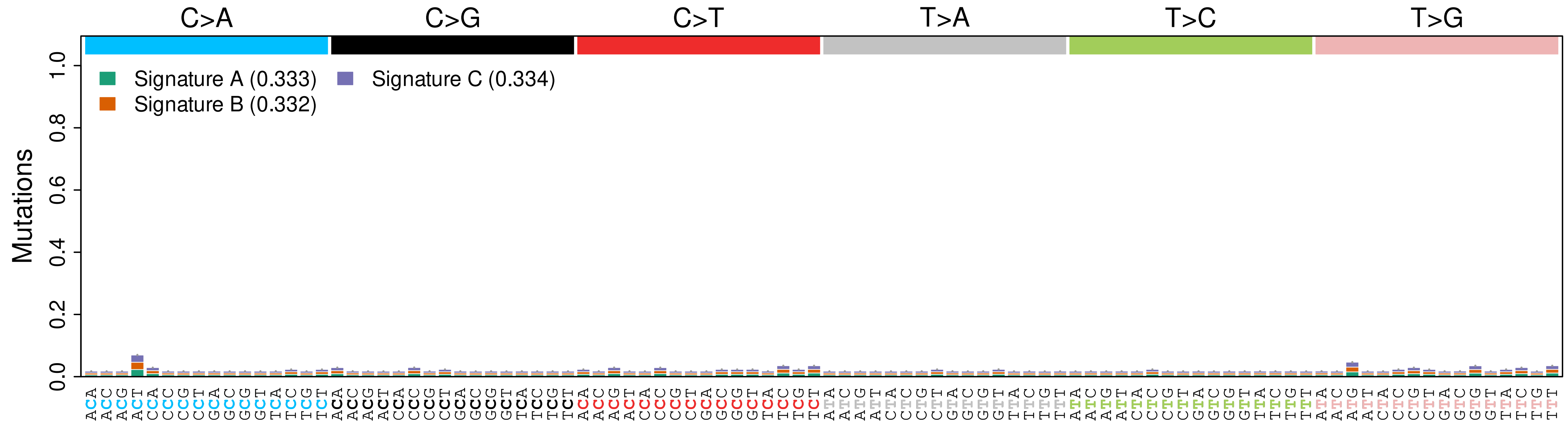




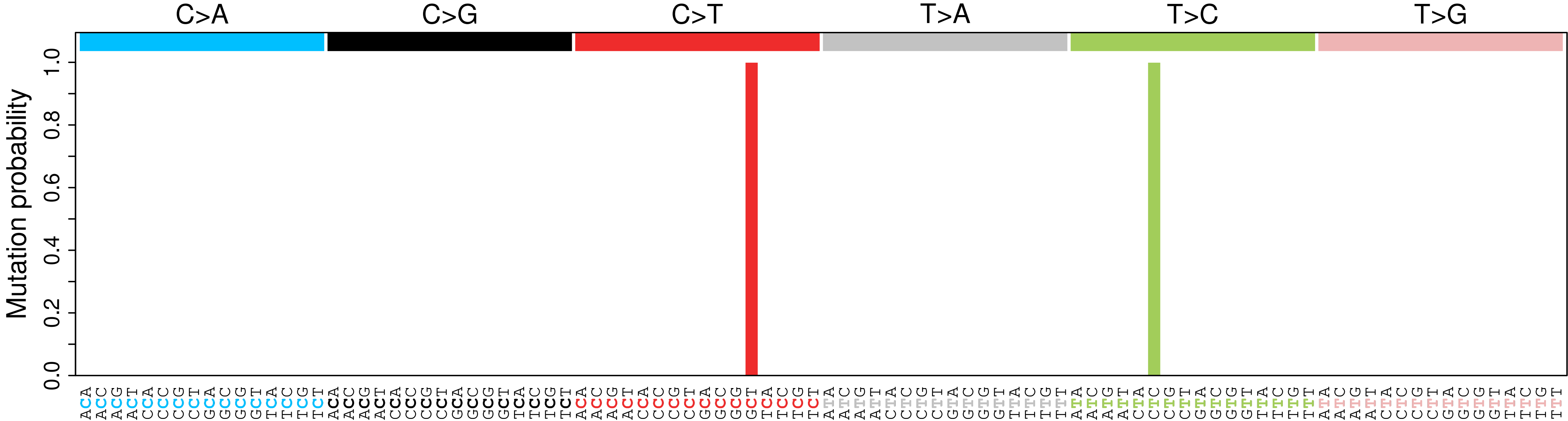
**CATD0376a**



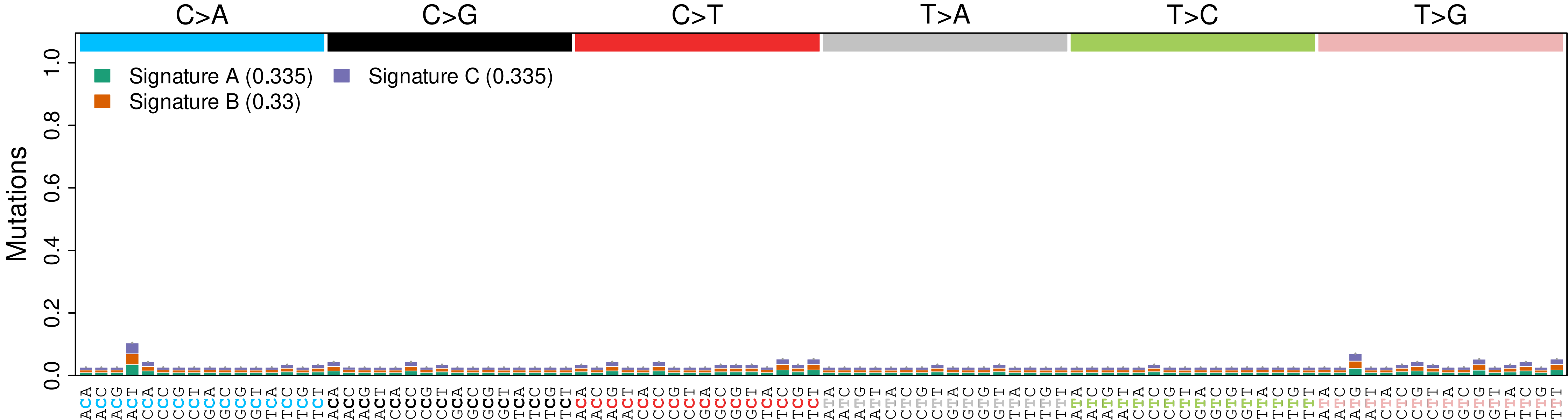
**Reconstructed spectrum (cosine similarity = 0.229)**



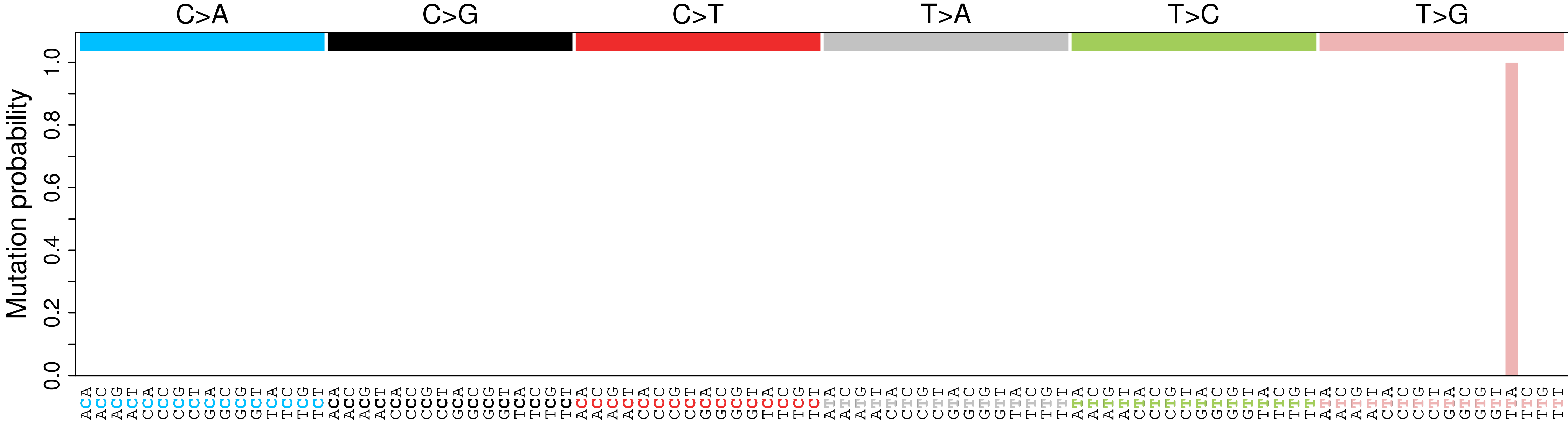
CATD0367a



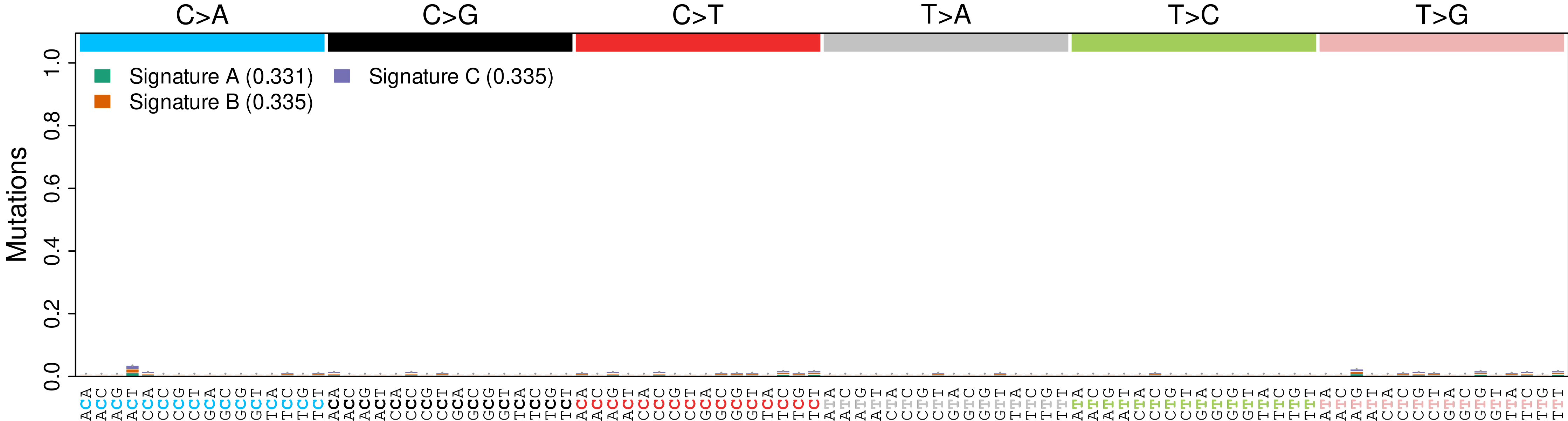
Reconstructed spectrum (cosine similarity = 0.153)

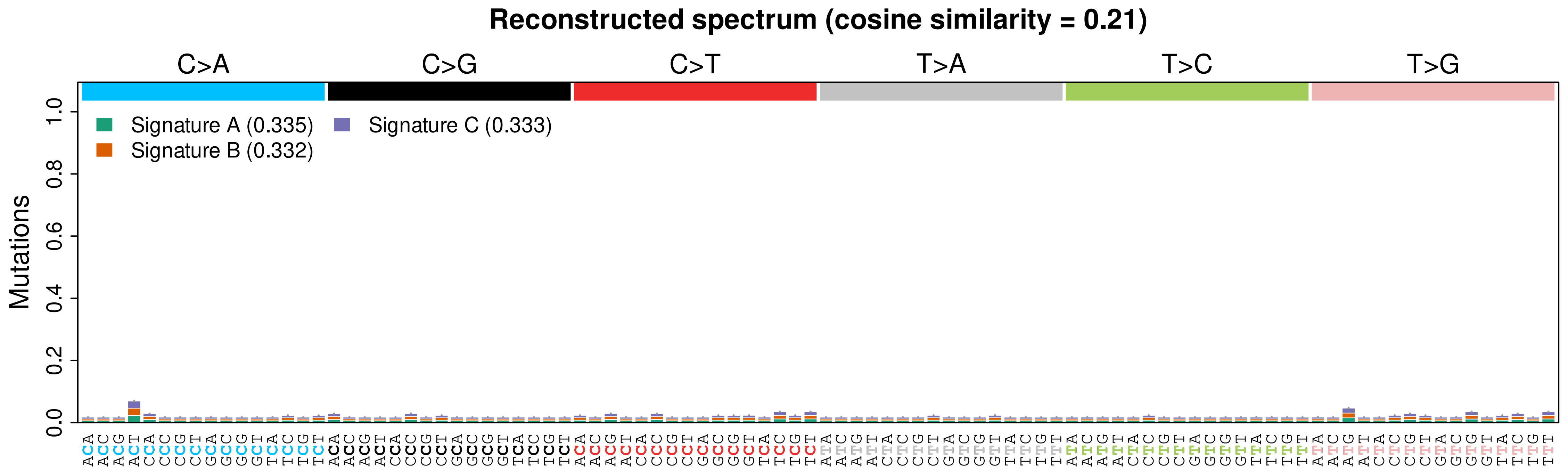
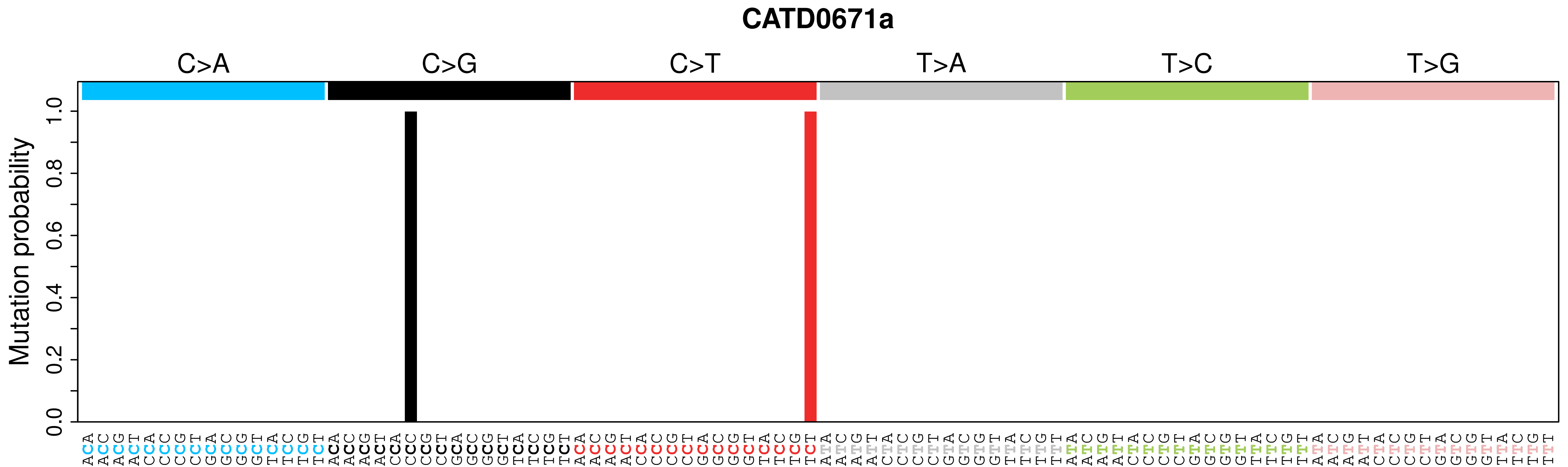


CATD0364a

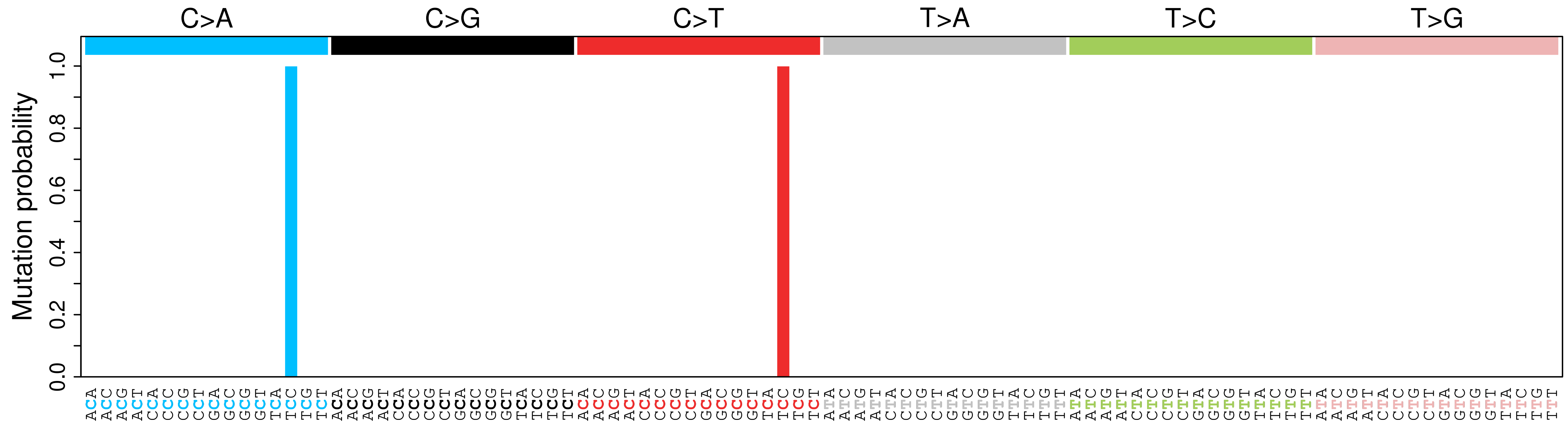


Reconstructed spectrum (cosine similarity = 0.108)

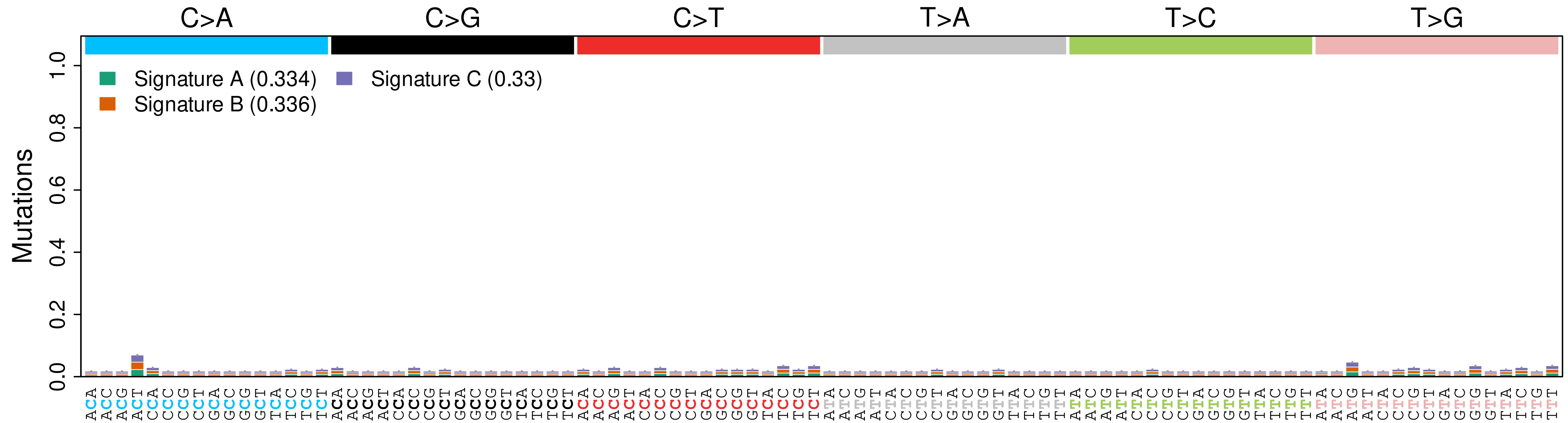




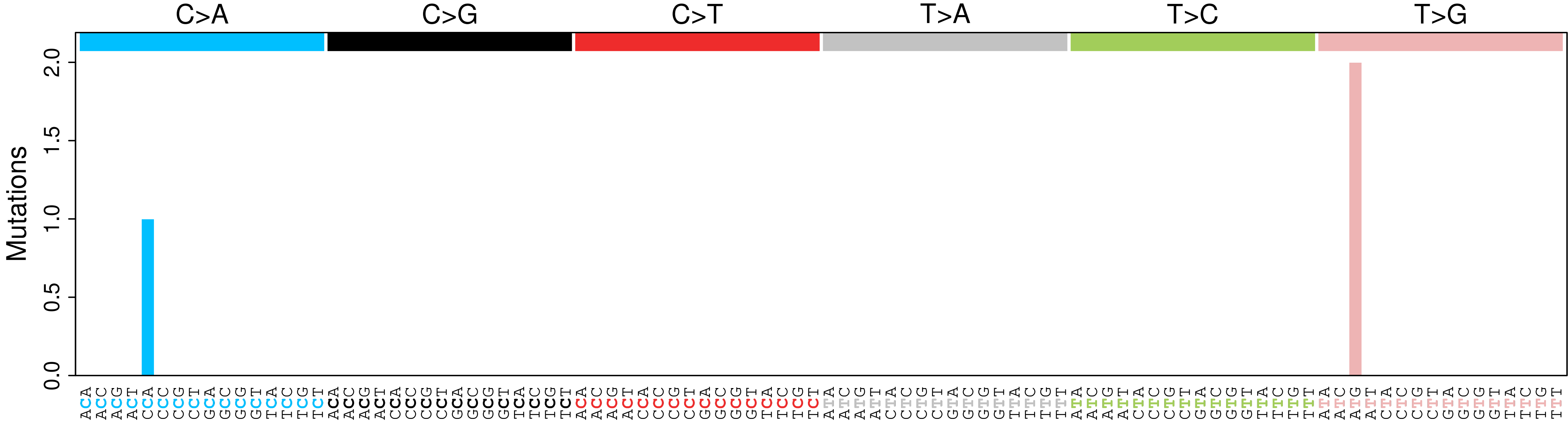
**CATD0163a**



### Reconstructed spectrum (cosine similarity = 0.191)



CATD0368a (3 mutations)



Reconstructed spectrum (cosine similarity = 0.253)

