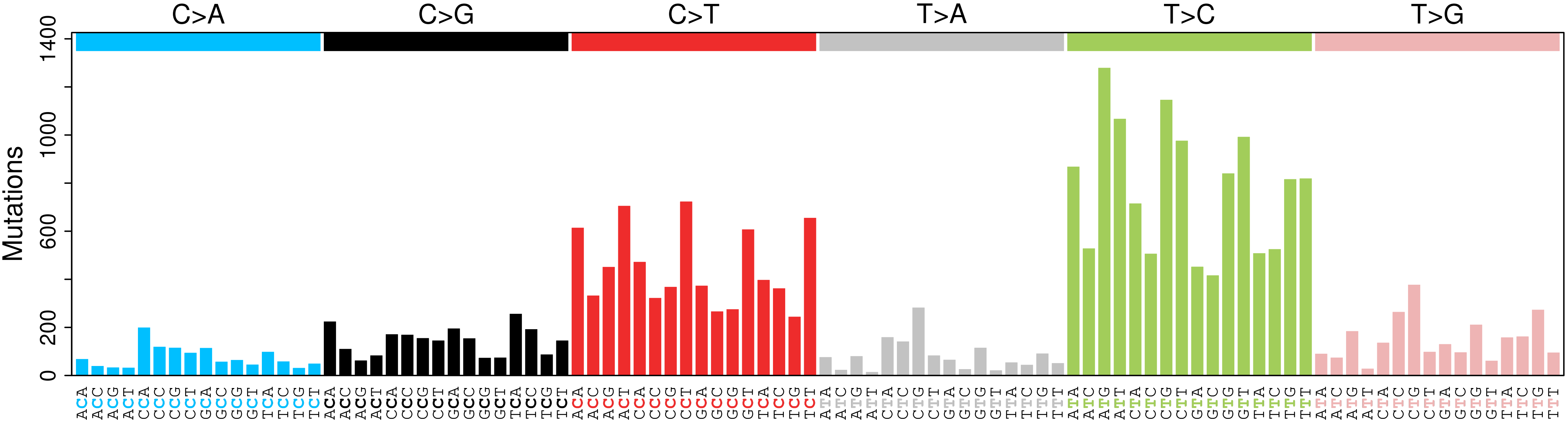
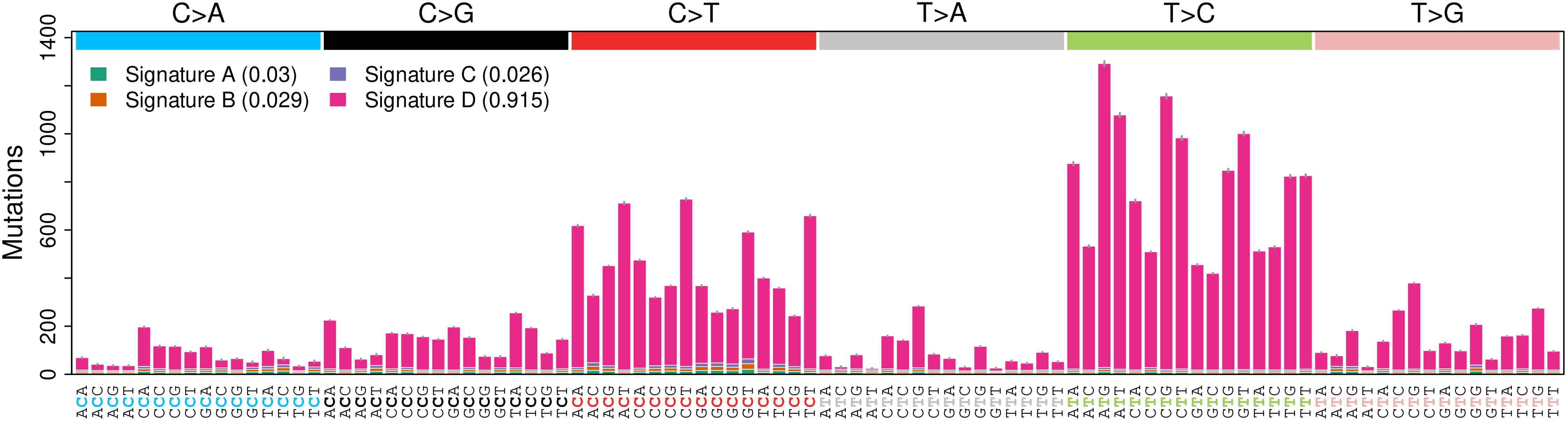


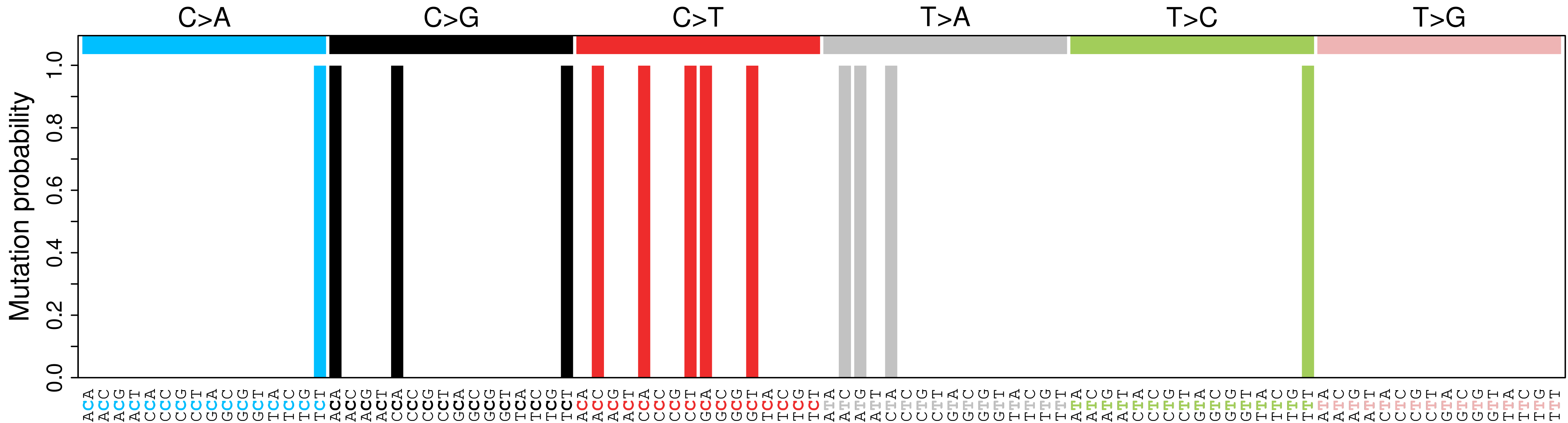
CATD309a (27,083 mutations)



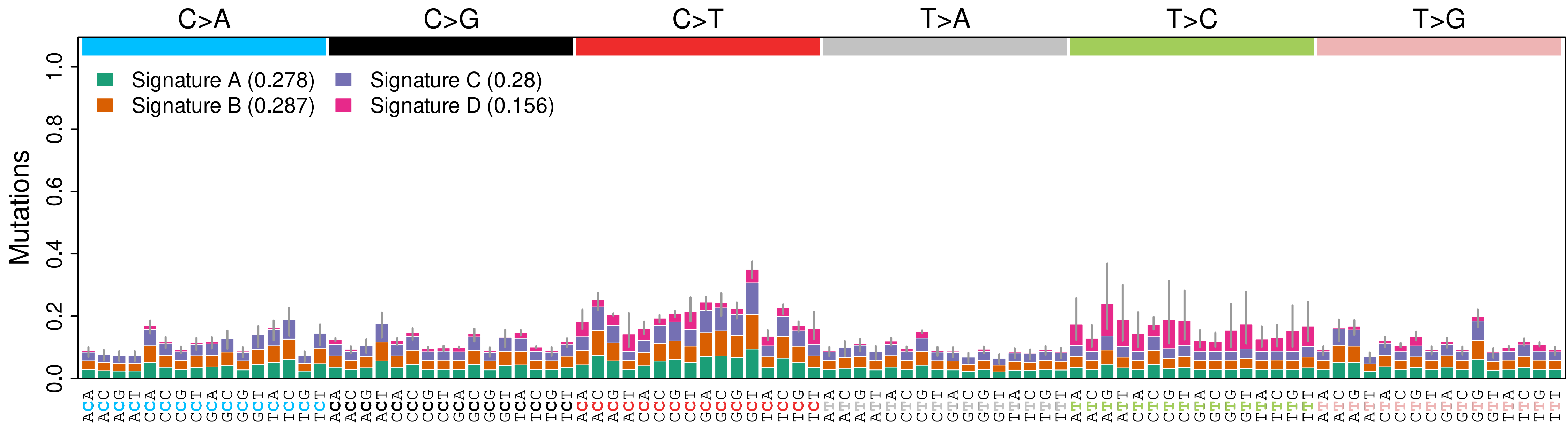
Reconstructed spectrum (cosine similarity = 1)



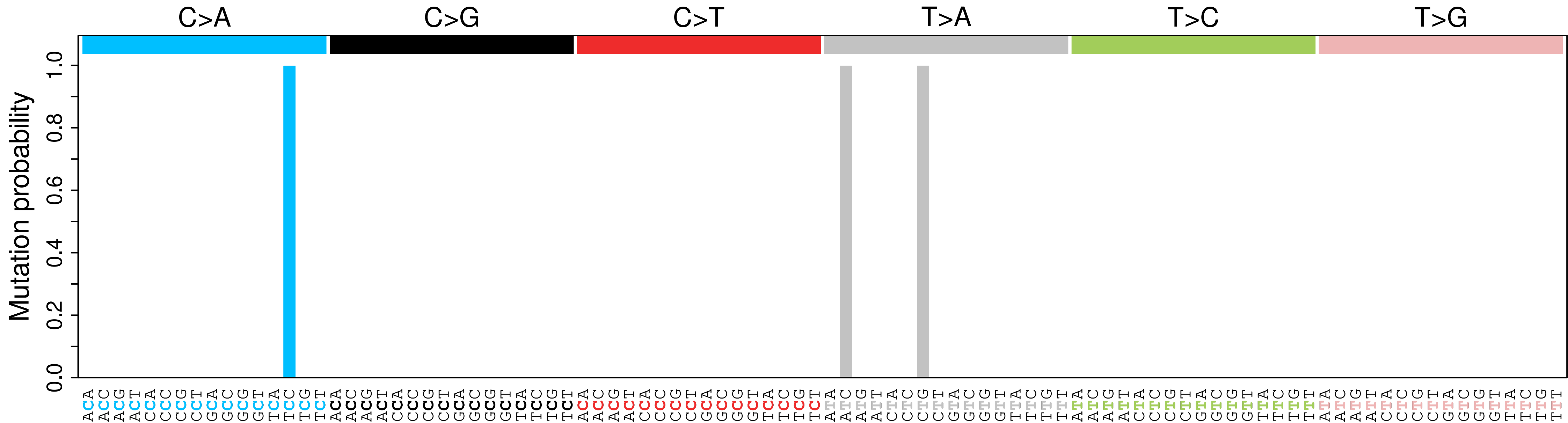
CATD319a



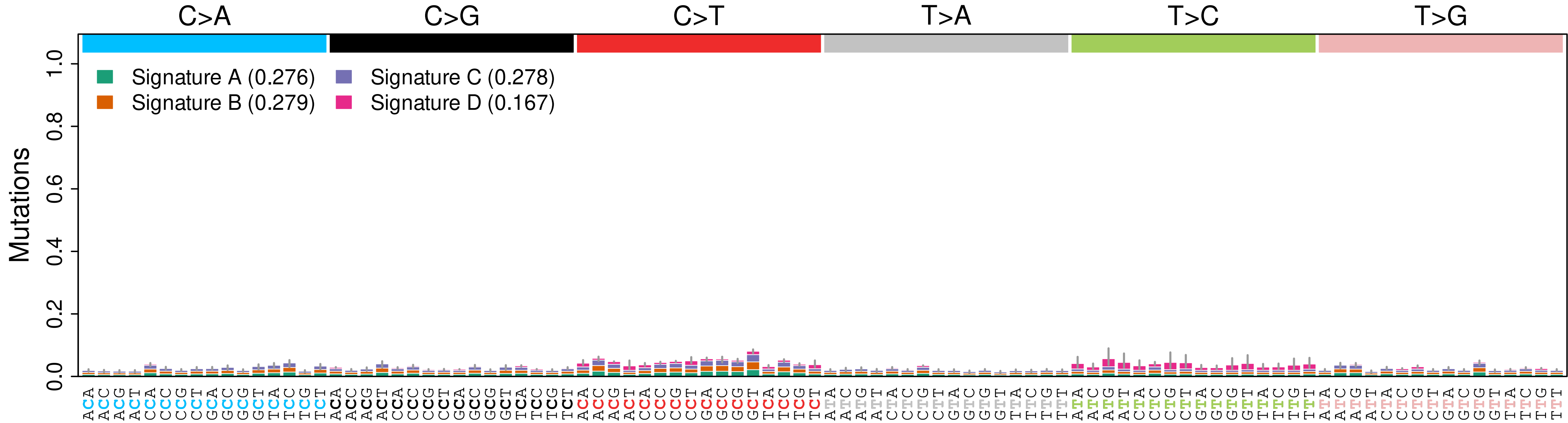
Reconstructed spectrum (cosine similarity = 0.437)



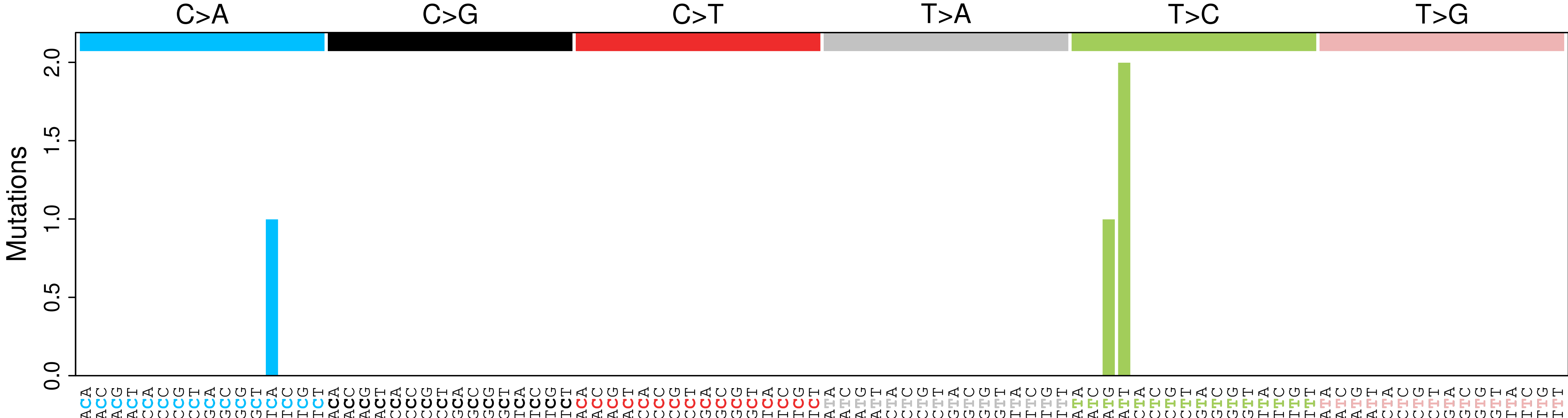
CATD310a



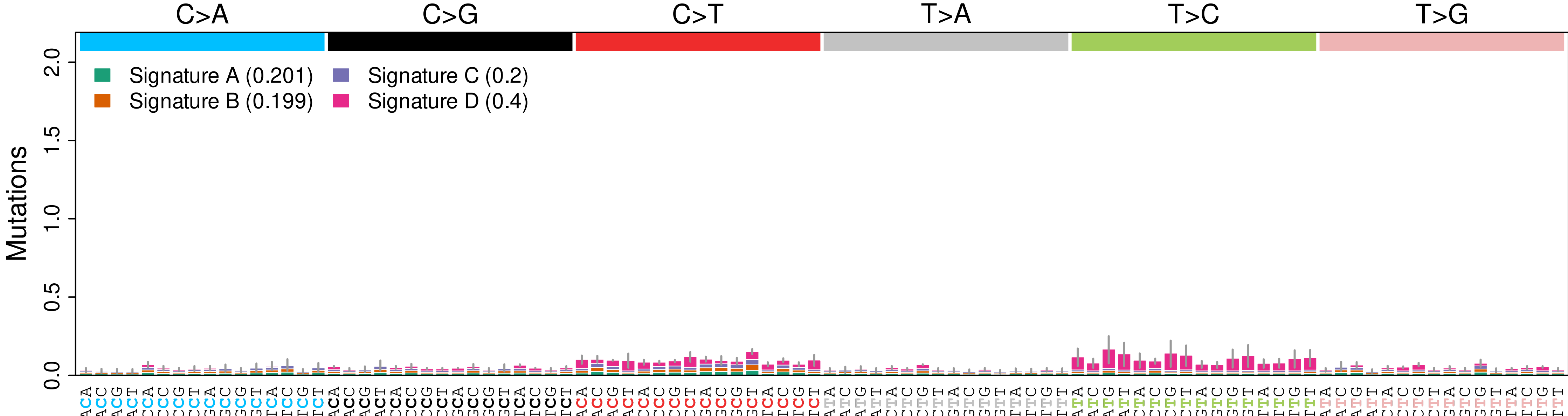
Reconstructed spectrum (cosine similarity = 0.179)



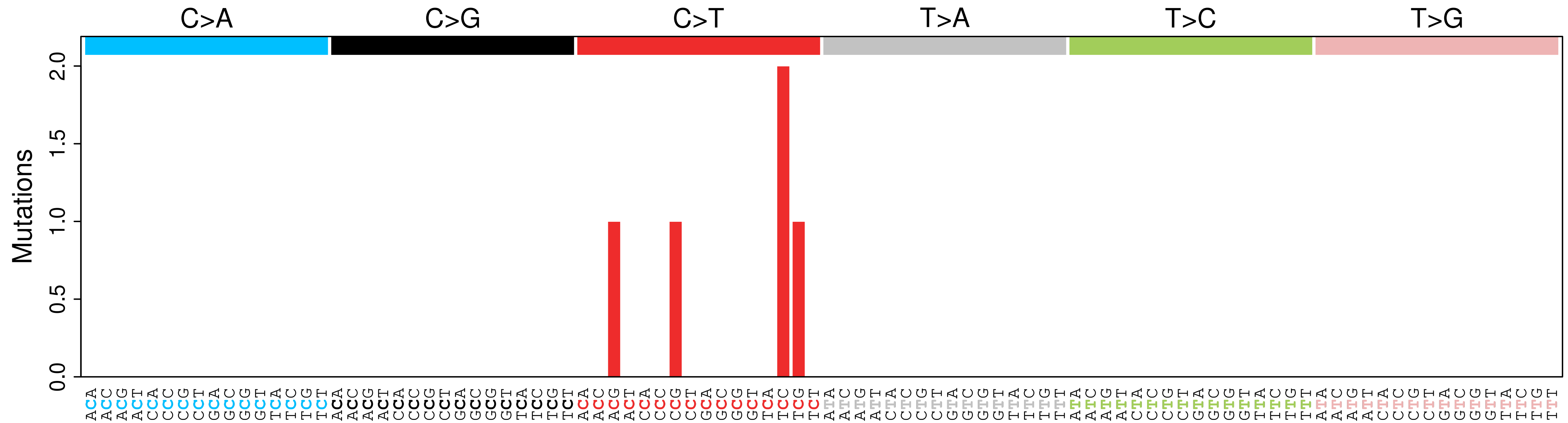
CATD297a (4 mutations)



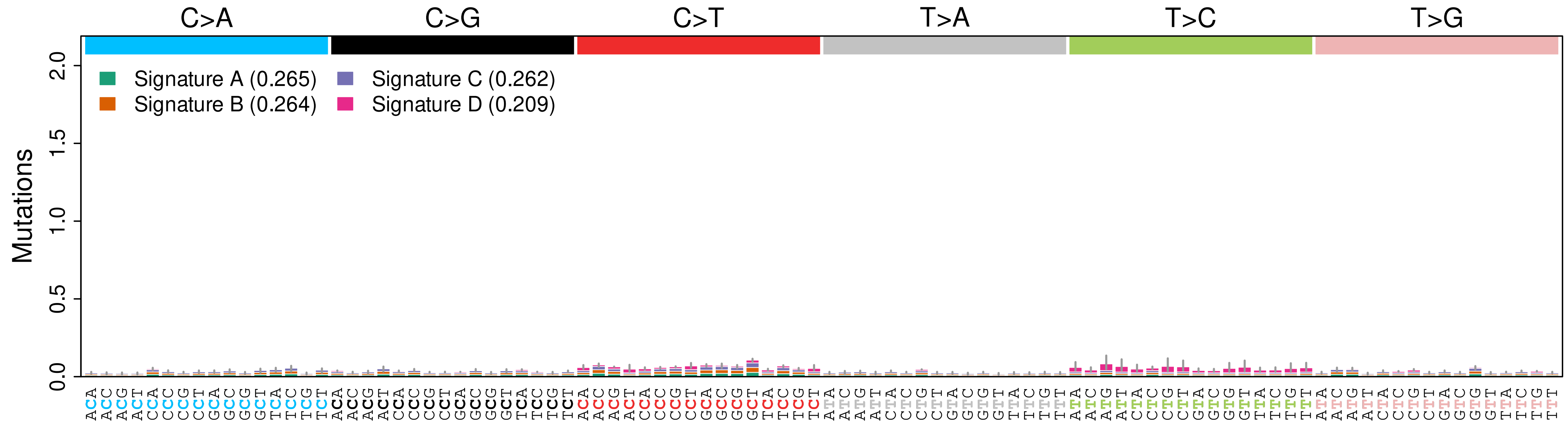
Reconstructed spectrum (cosine similarity = 0.294)



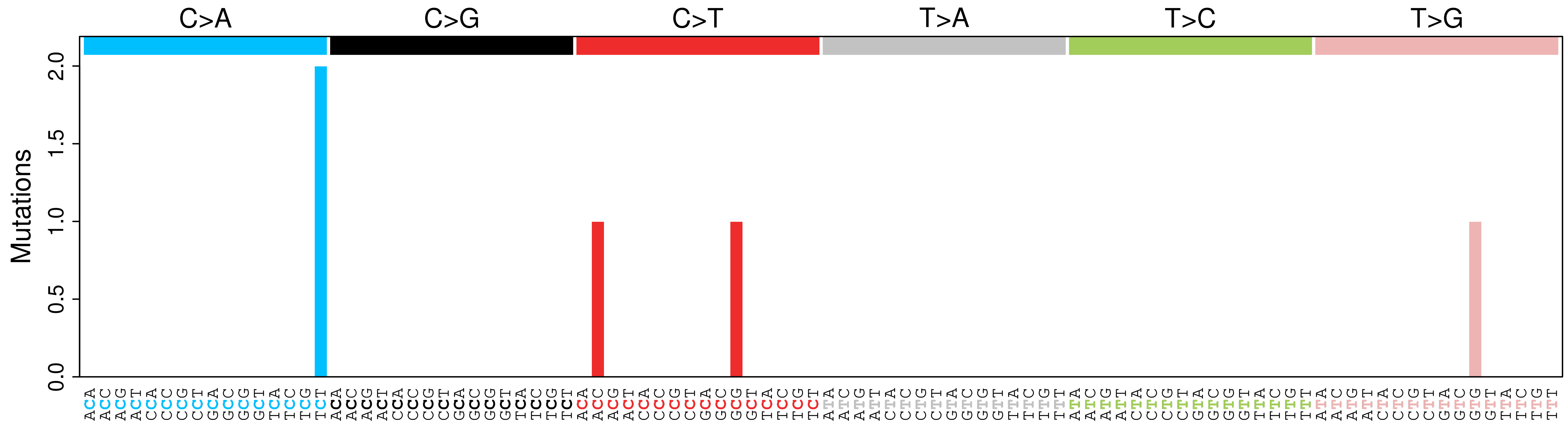
CATD312a (5 mutations)



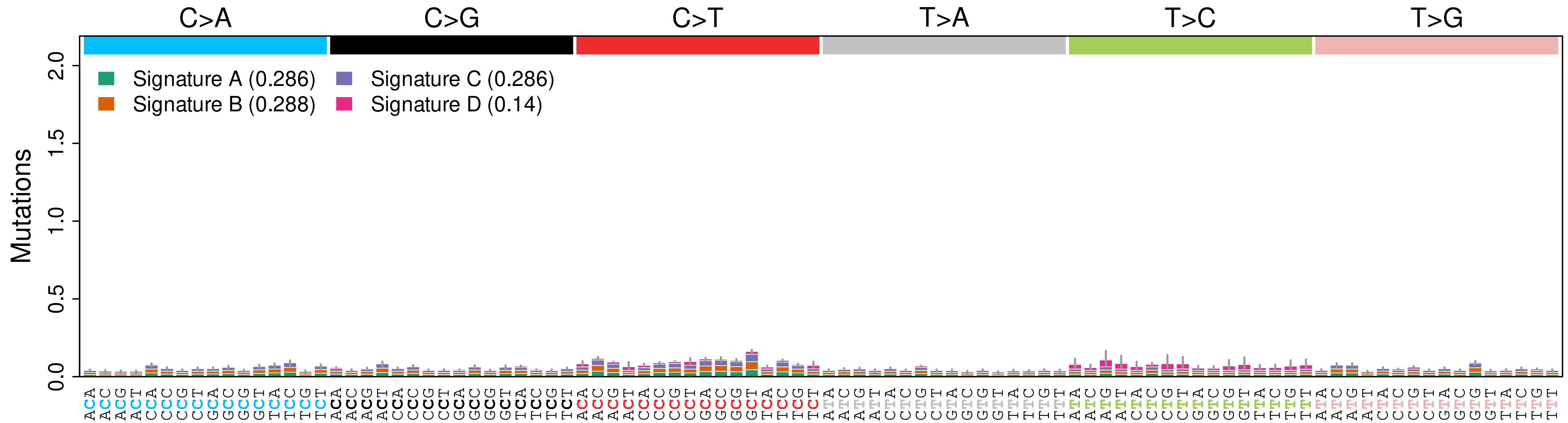
Reconstructed spectrum (cosine similarity = 0.271)



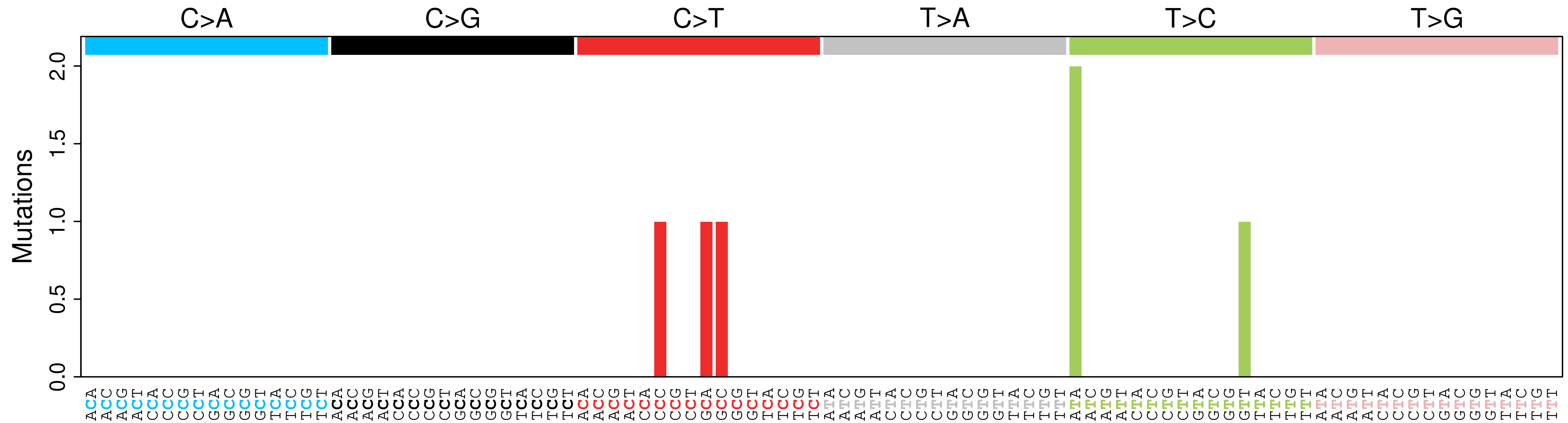
CATD323a (5 mutations)



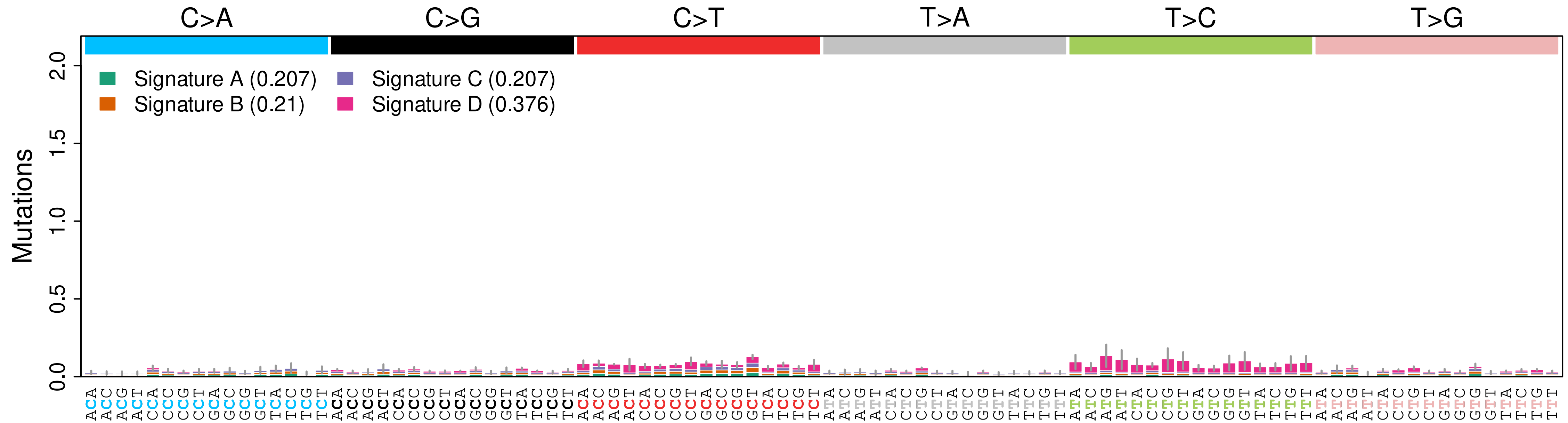
Reconstructed spectrum (cosine similarity = 0.262)



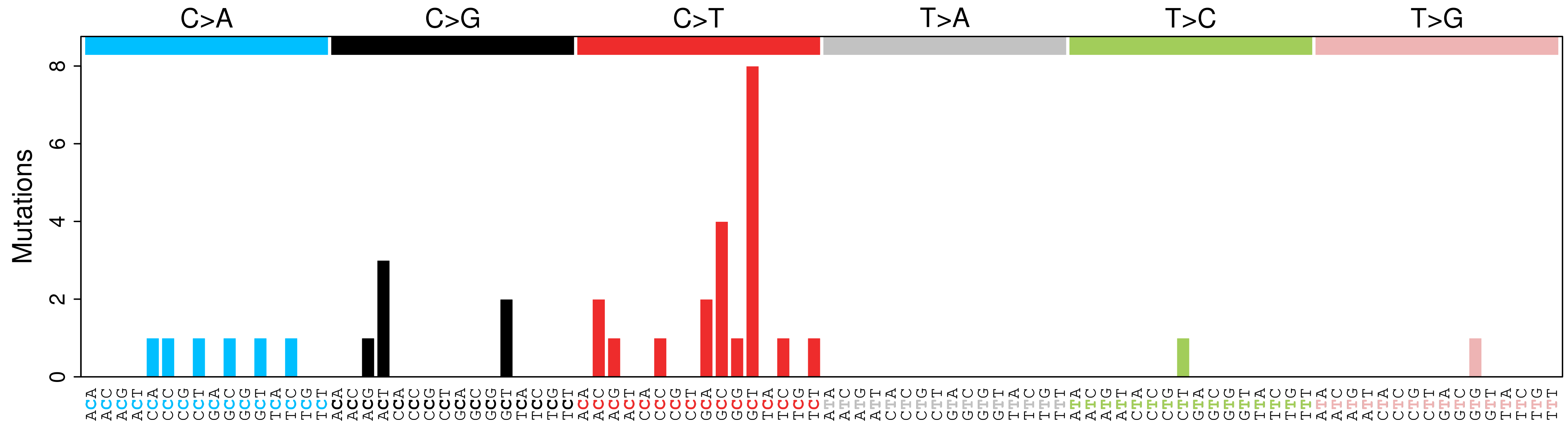
CATD314a (6 mutations)



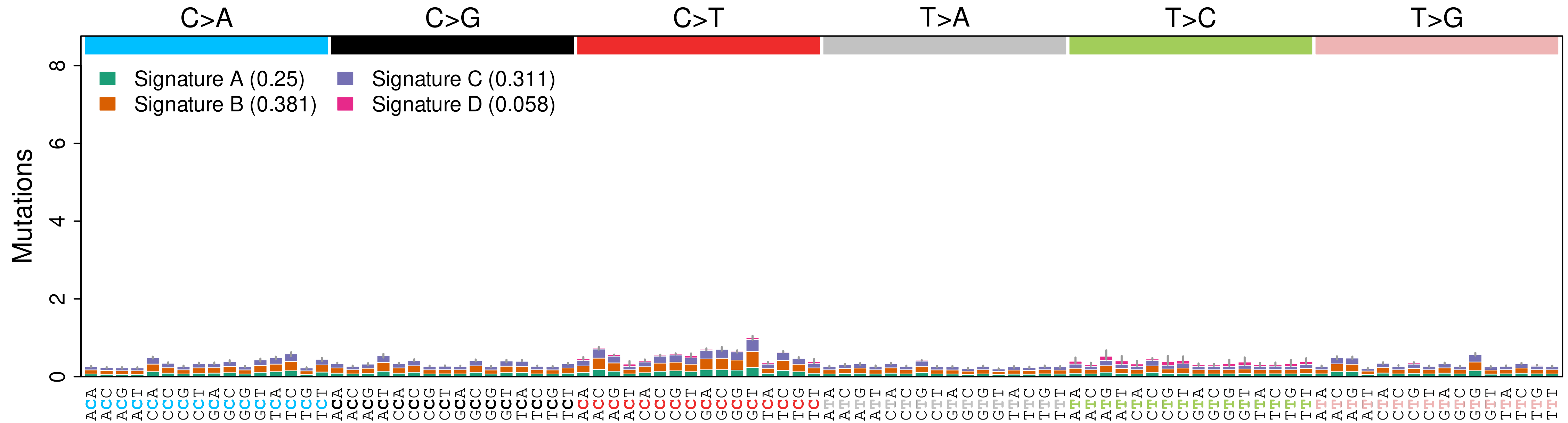
Reconstructed spectrum (cosine similarity = 0.327)



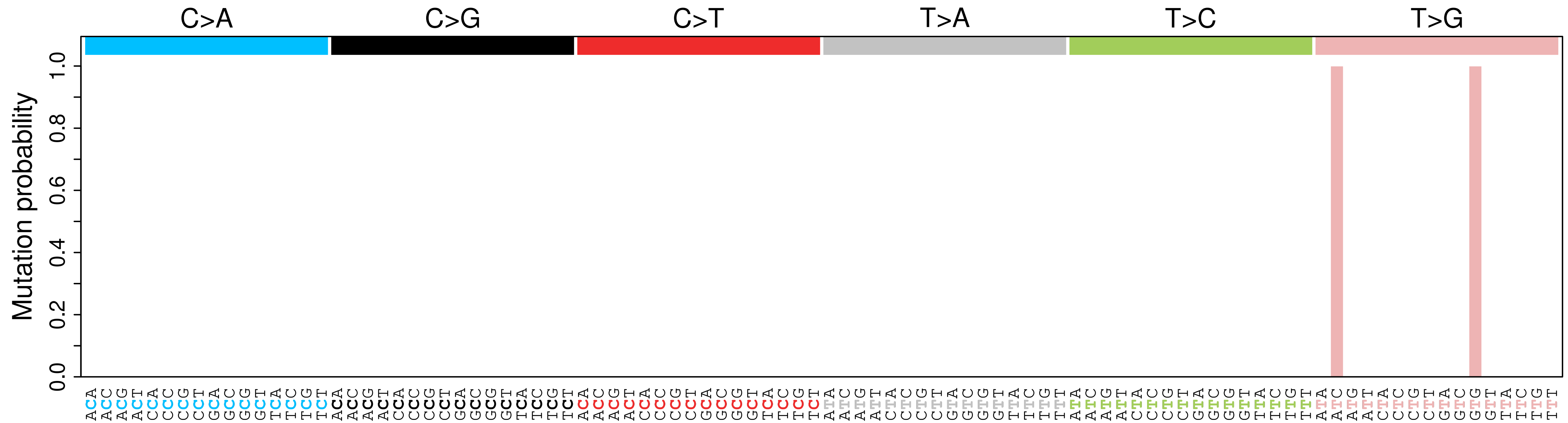
CATD329a (35 mutations)



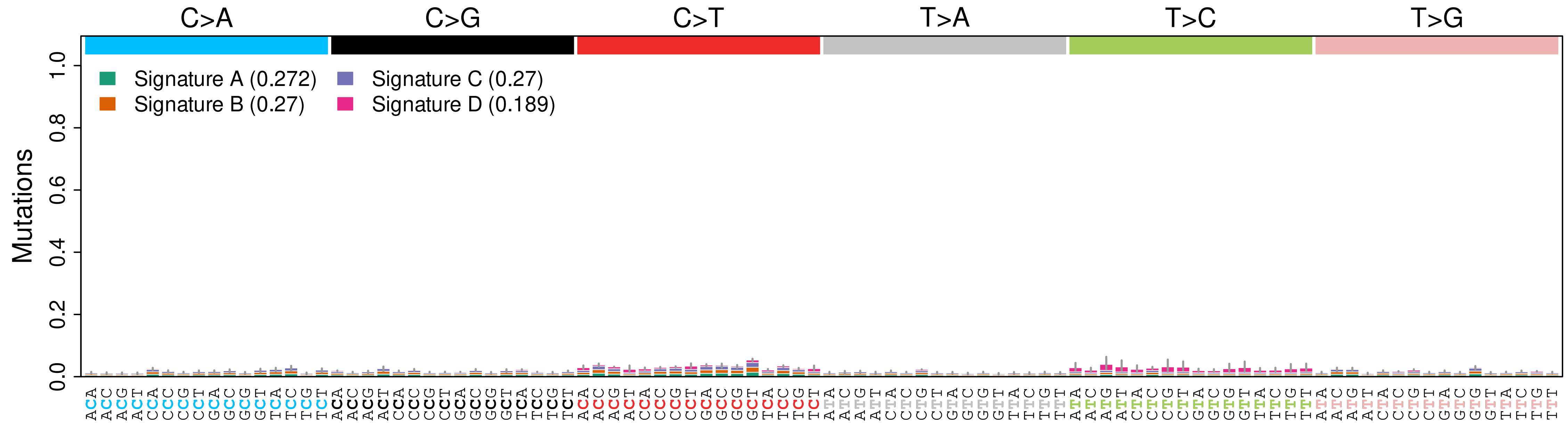
Reconstructed spectrum (cosine similarity = 0.547)



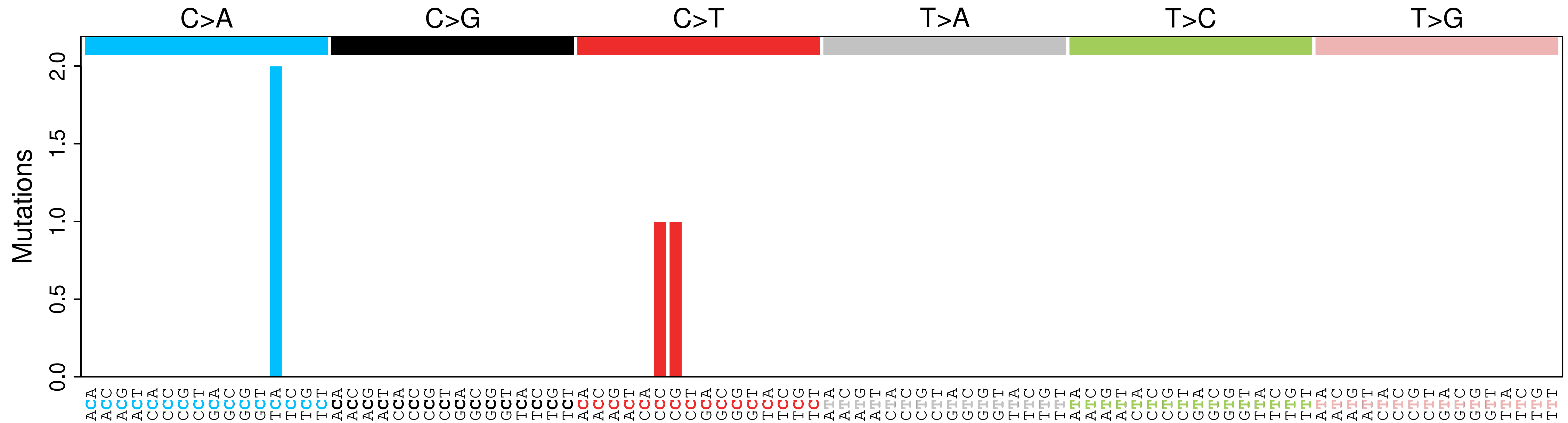
CATD311a



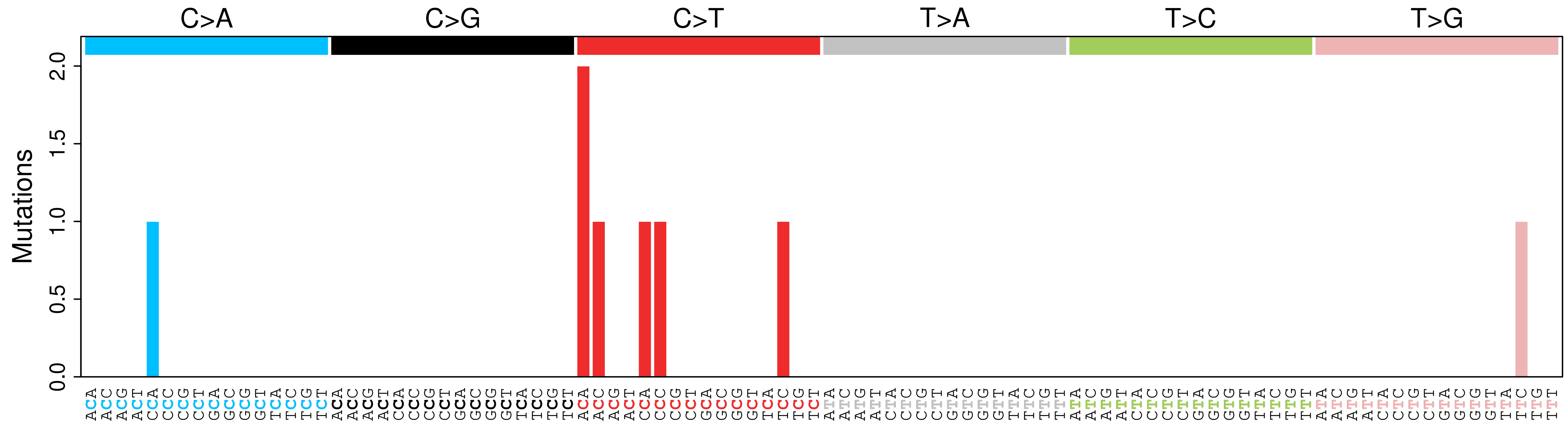
Reconstructed spectrum (cosine similarity = 0.174)



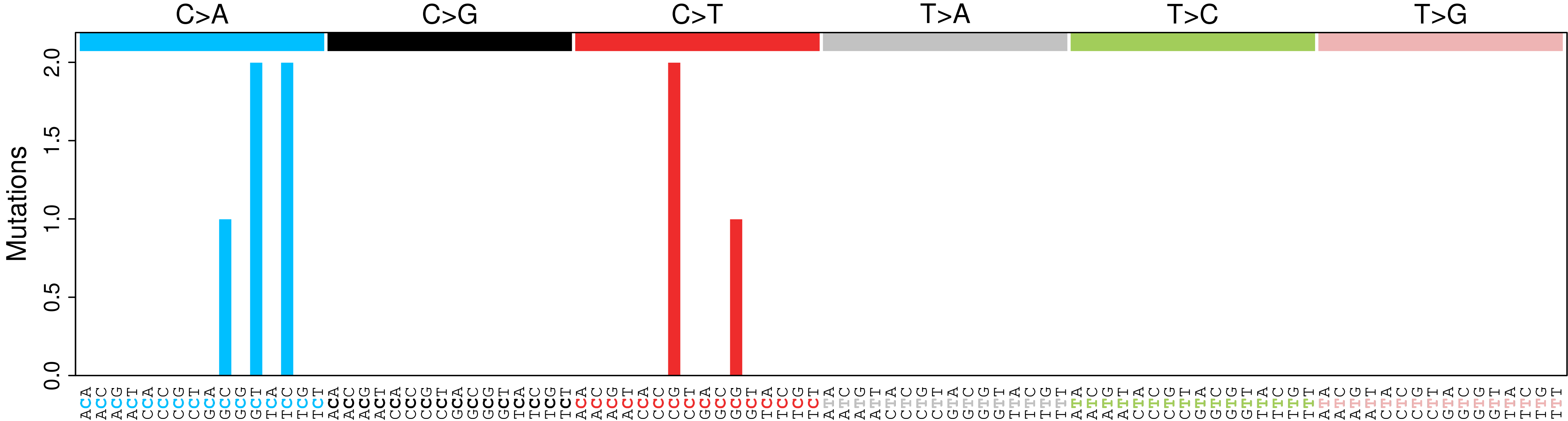
CATD306a (4 mutations)



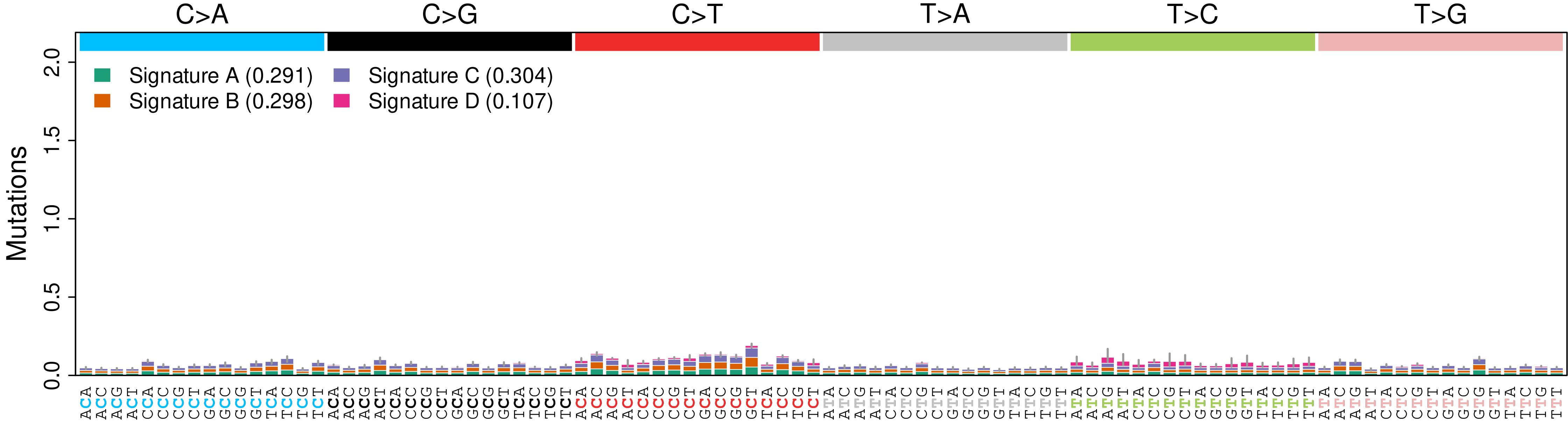
CATD320a (8 mutations)



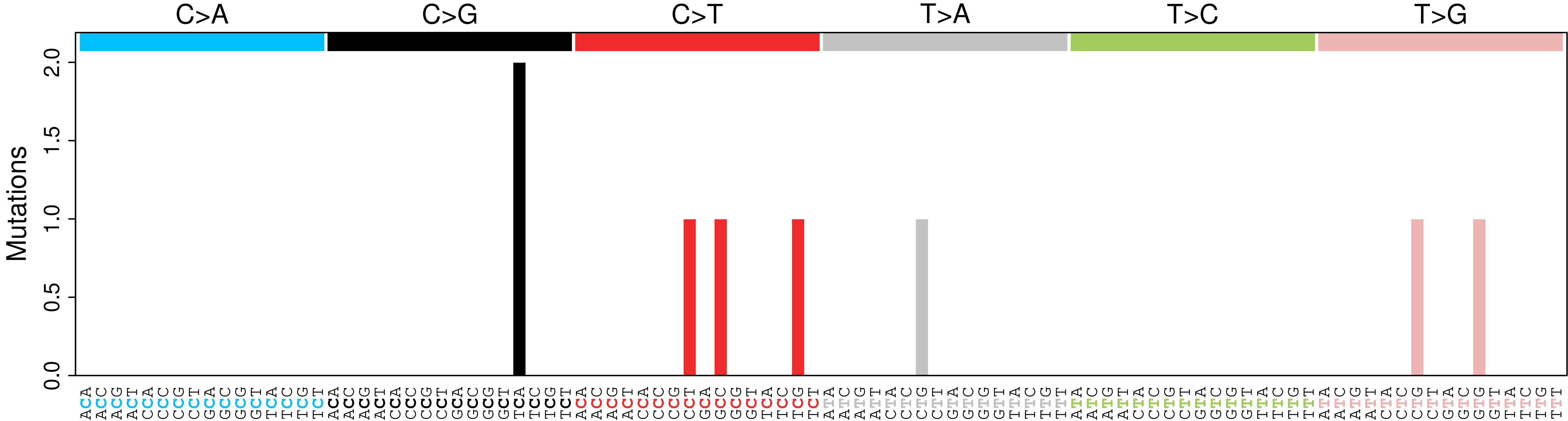
CATD300a (8 mutations)



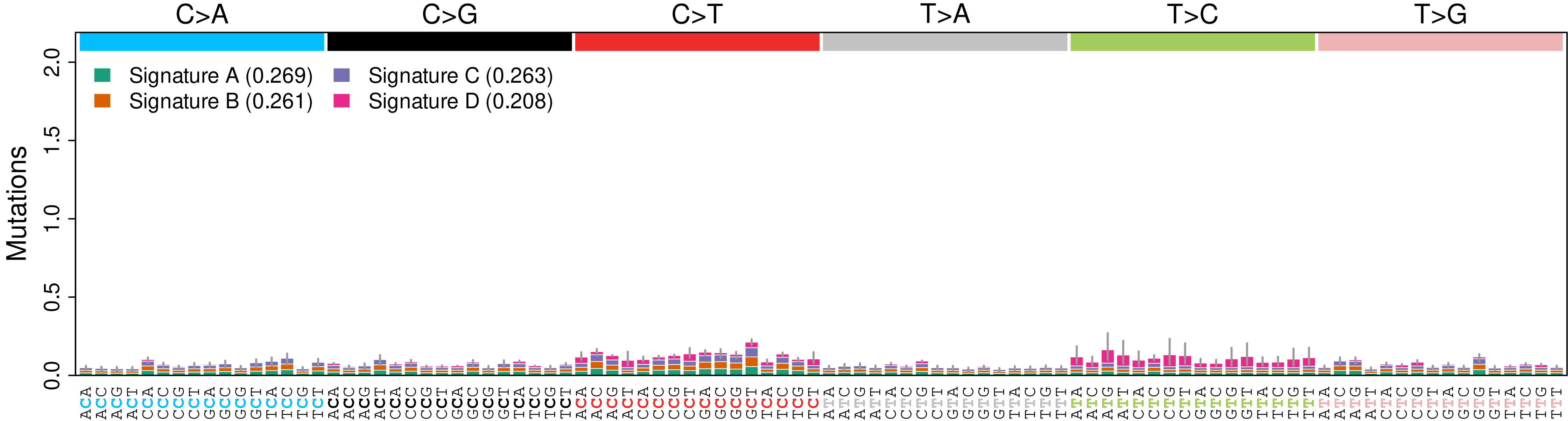
Reconstructed spectrum (cosine similarity = 0.282)



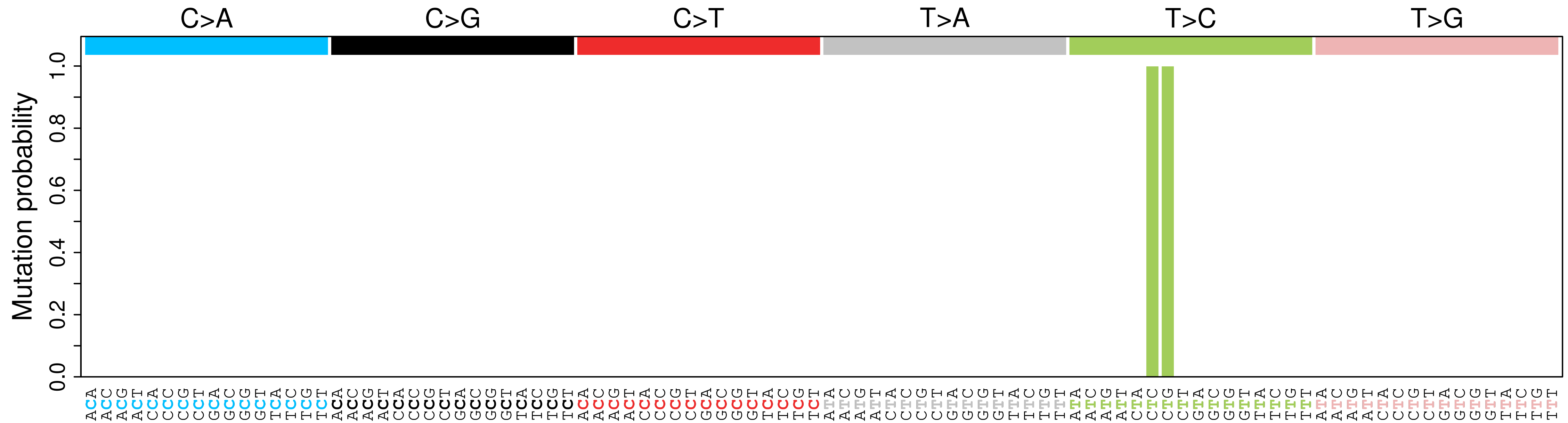
CATD328a (8 mutations)



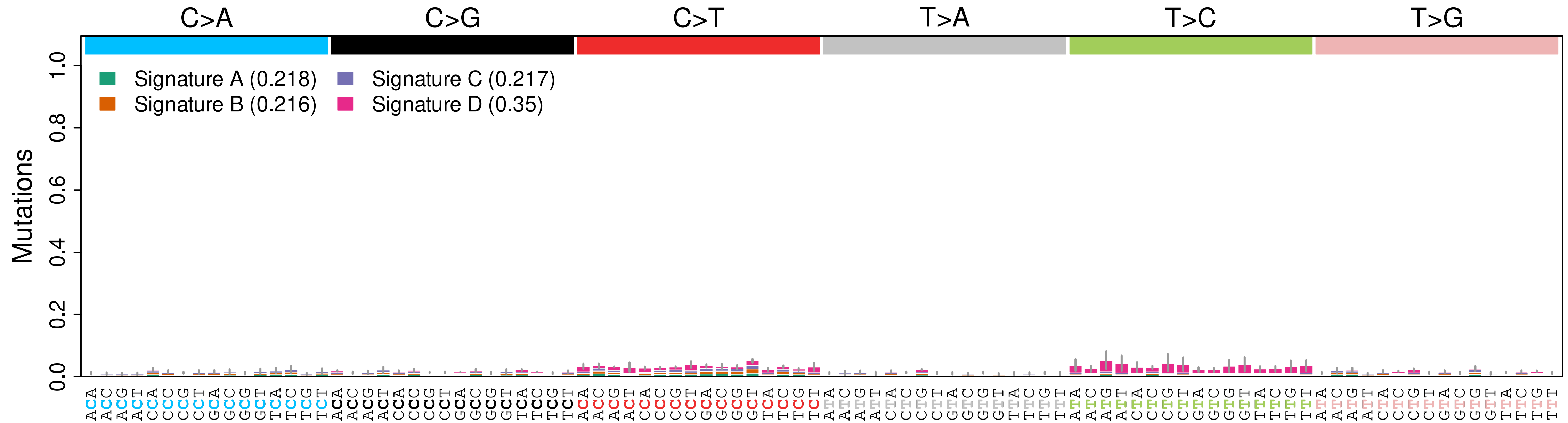
Reconstructed spectrum (cosine similarity = 0.309)



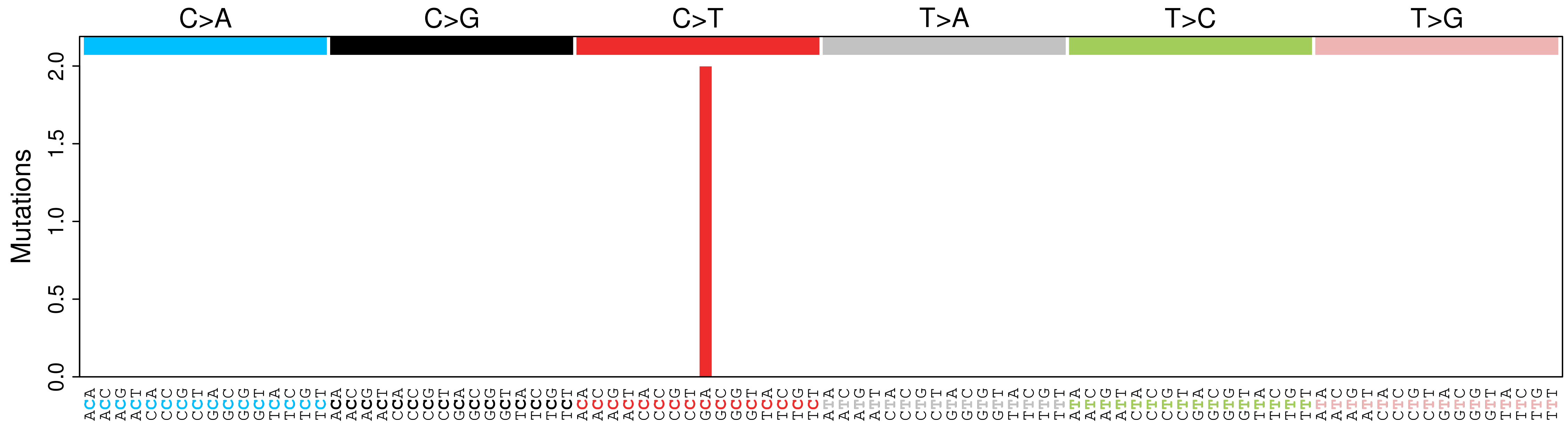
CATD0674a



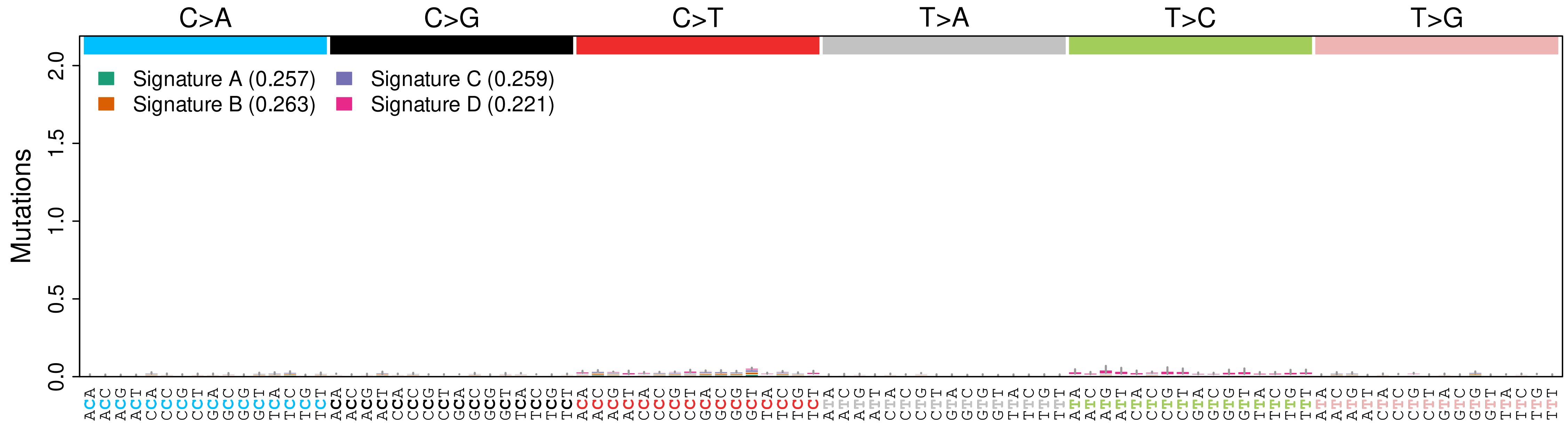
Reconstructed spectrum (cosine similarity = 0.227)



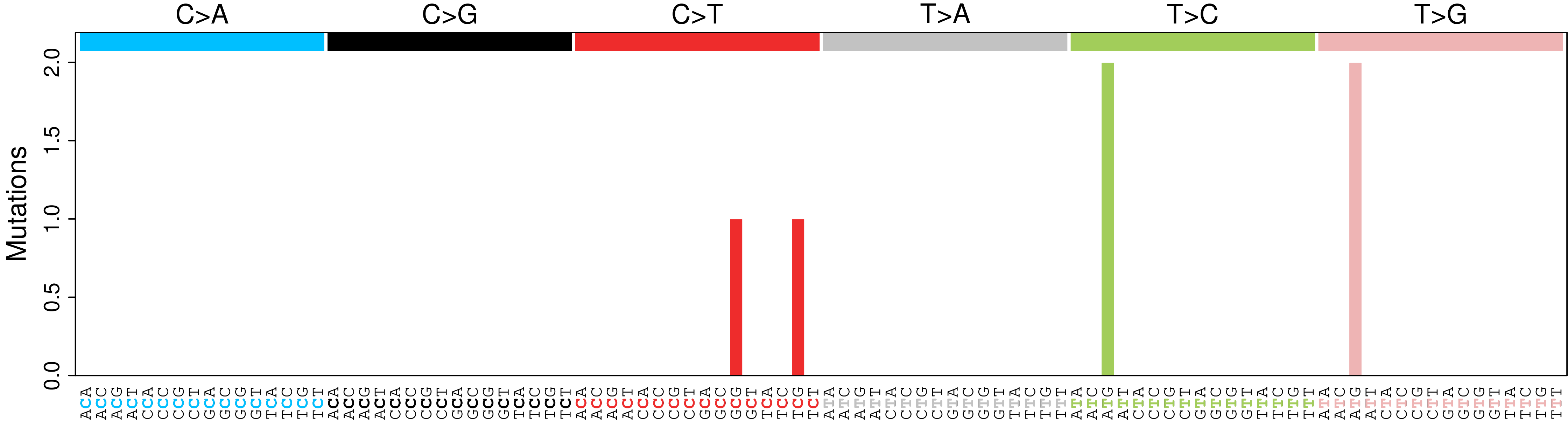
CATD318a (2 mutations)



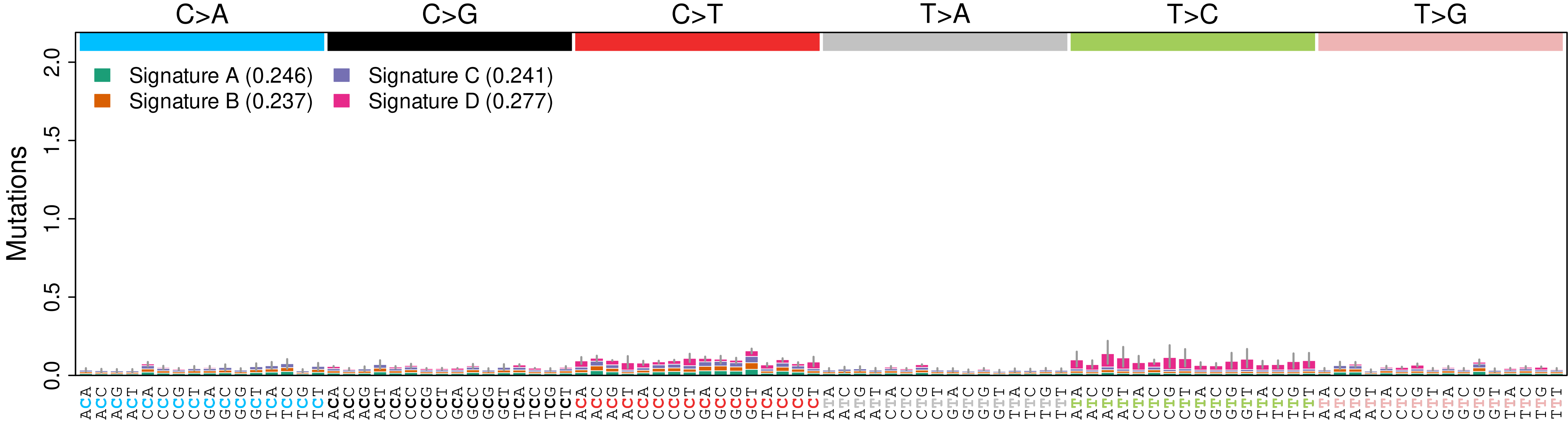
Reconstructed spectrum (cosine similarity = 0.168)



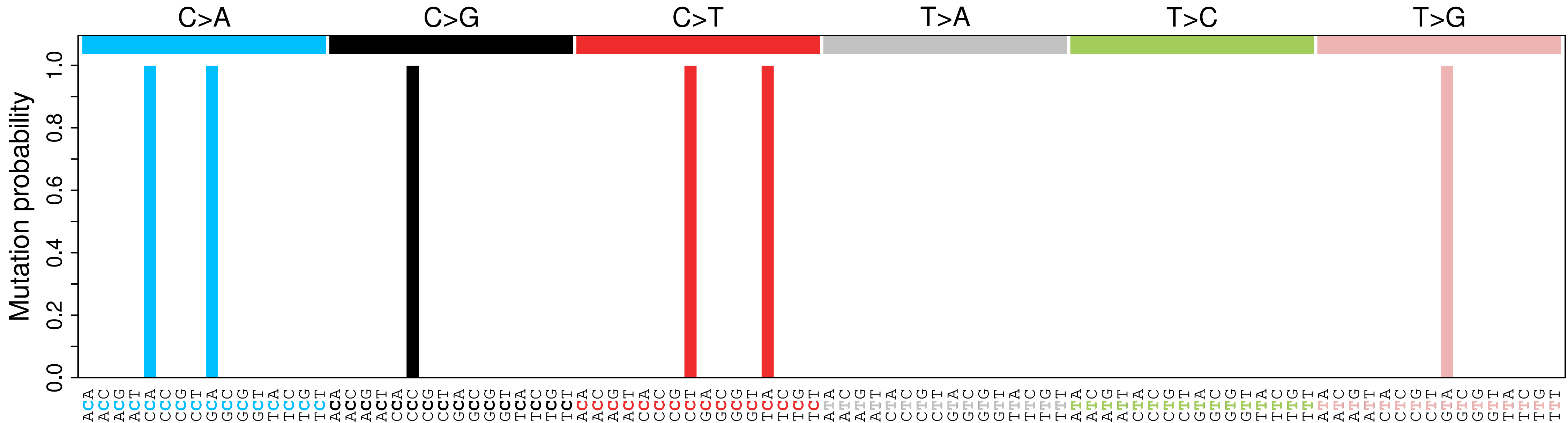
CATD301a (6 mutations)



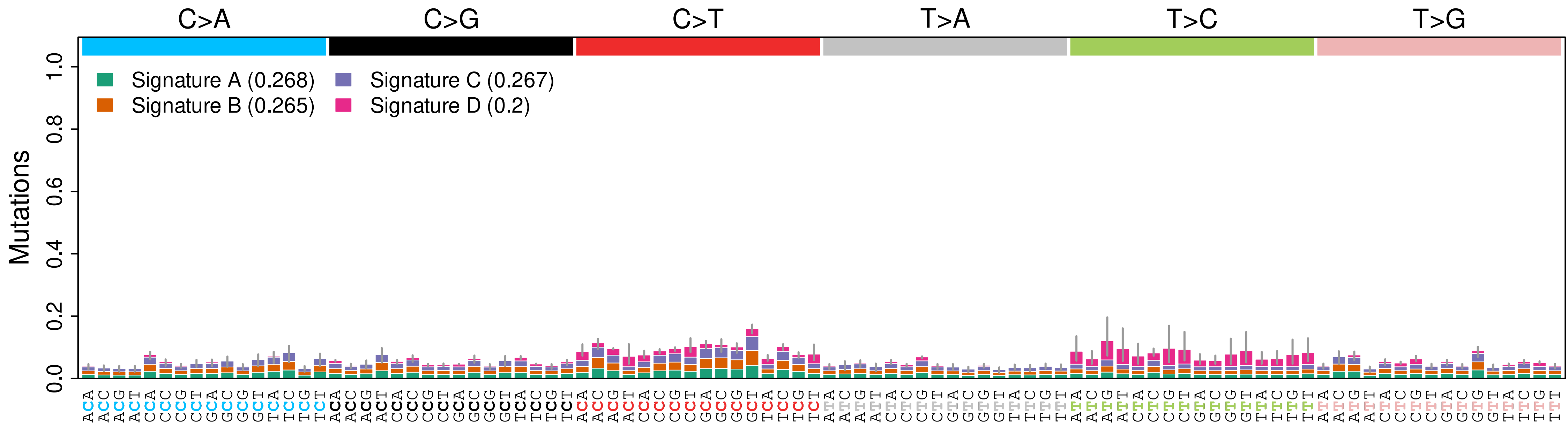
Reconstructed spectrum (cosine similarity = 0.28)



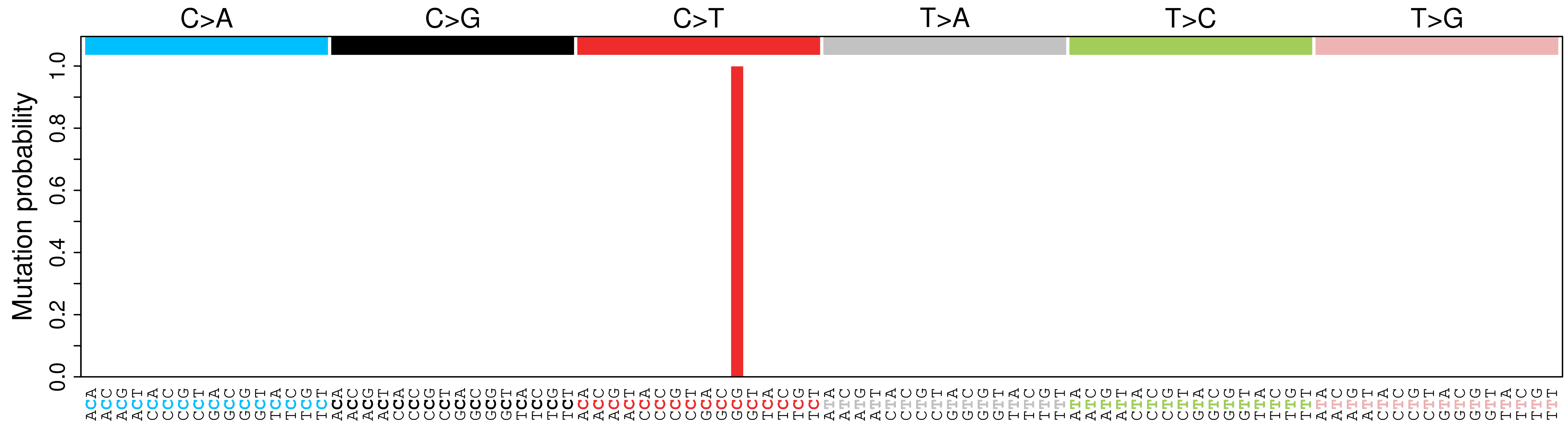
CATD296a



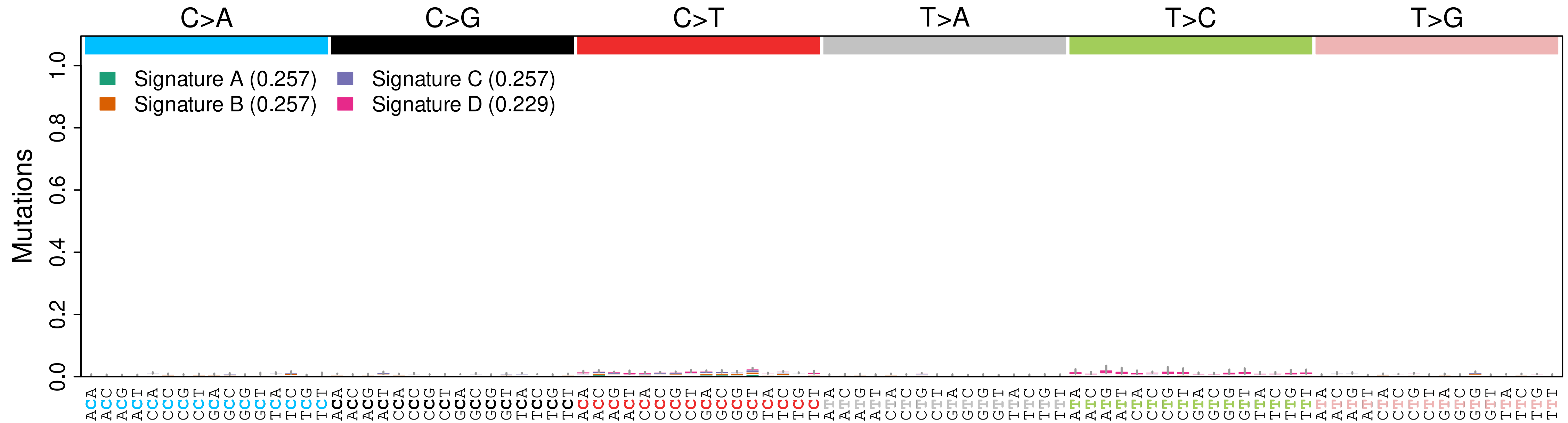
Reconstructed spectrum (cosine similarity = 0.257)



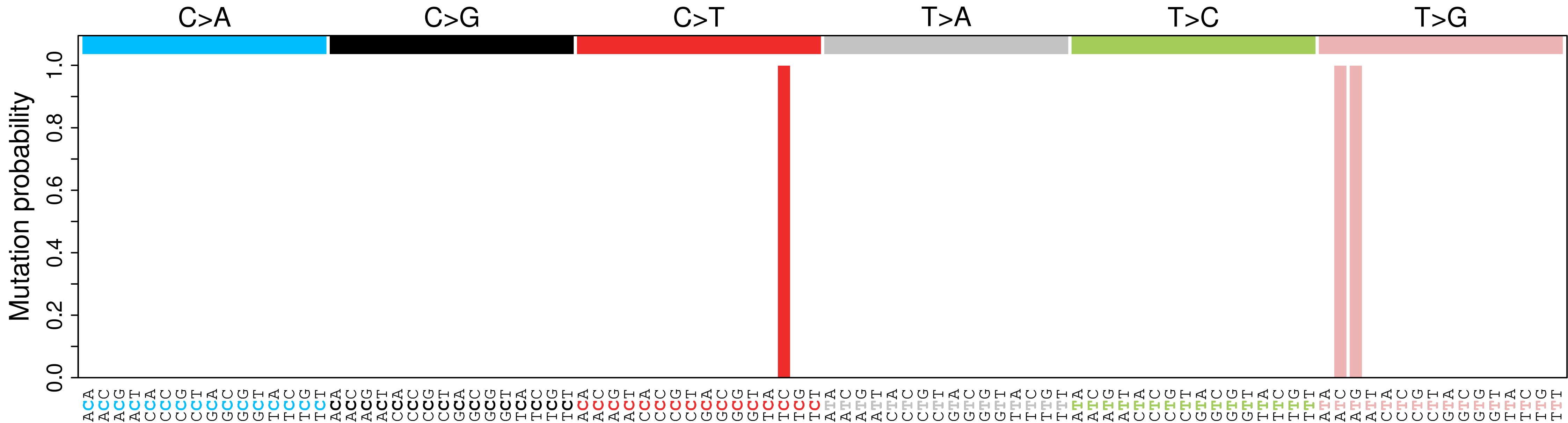
CATD0675a



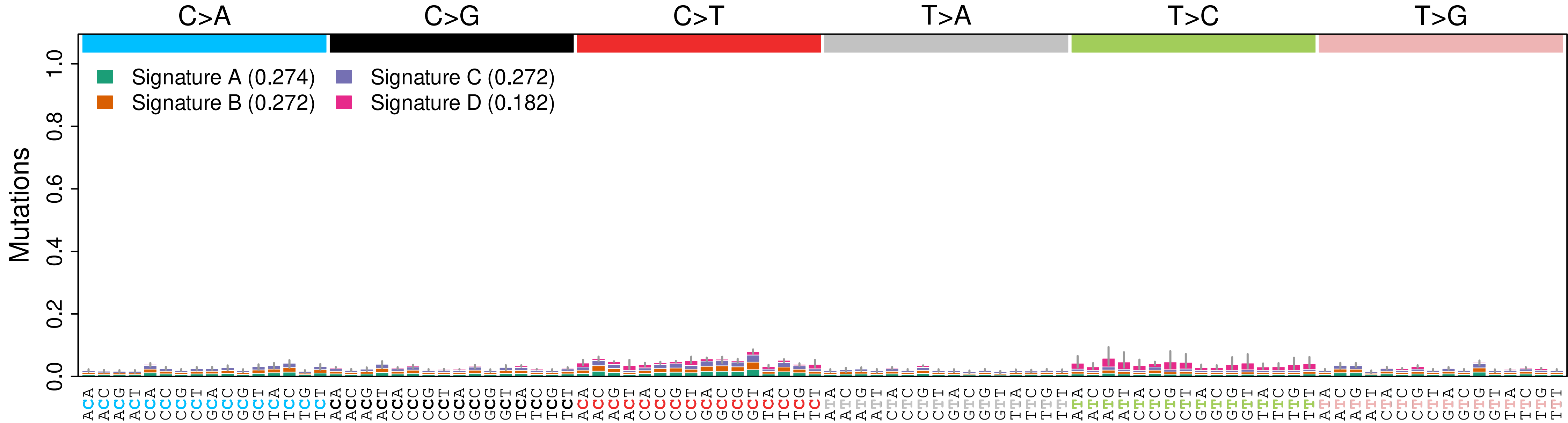
Reconstructed spectrum (cosine similarity = 0.15)



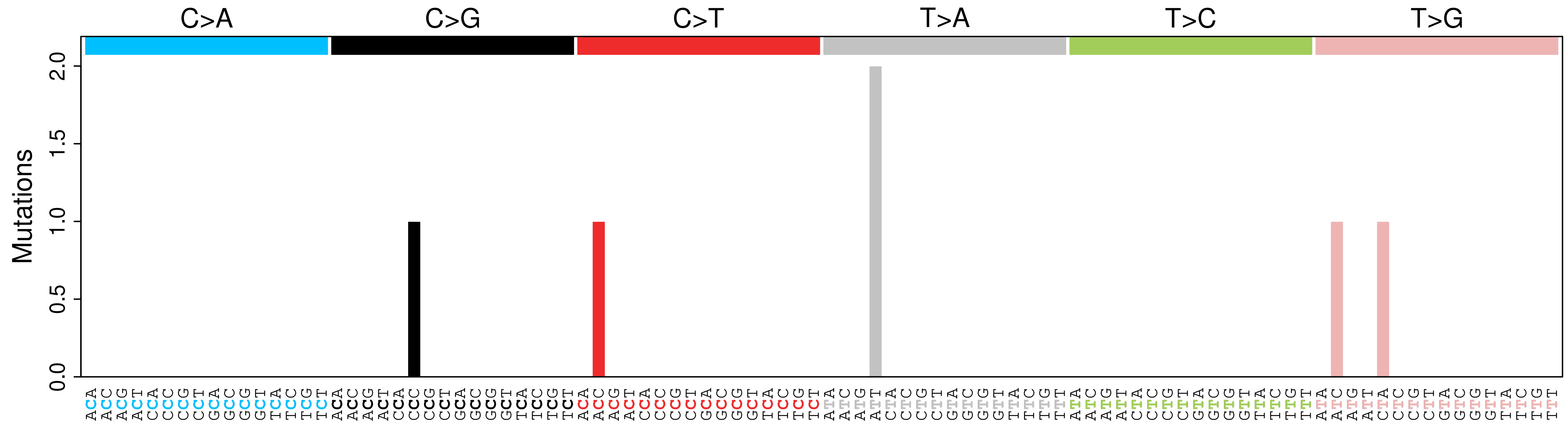
CATD0676a



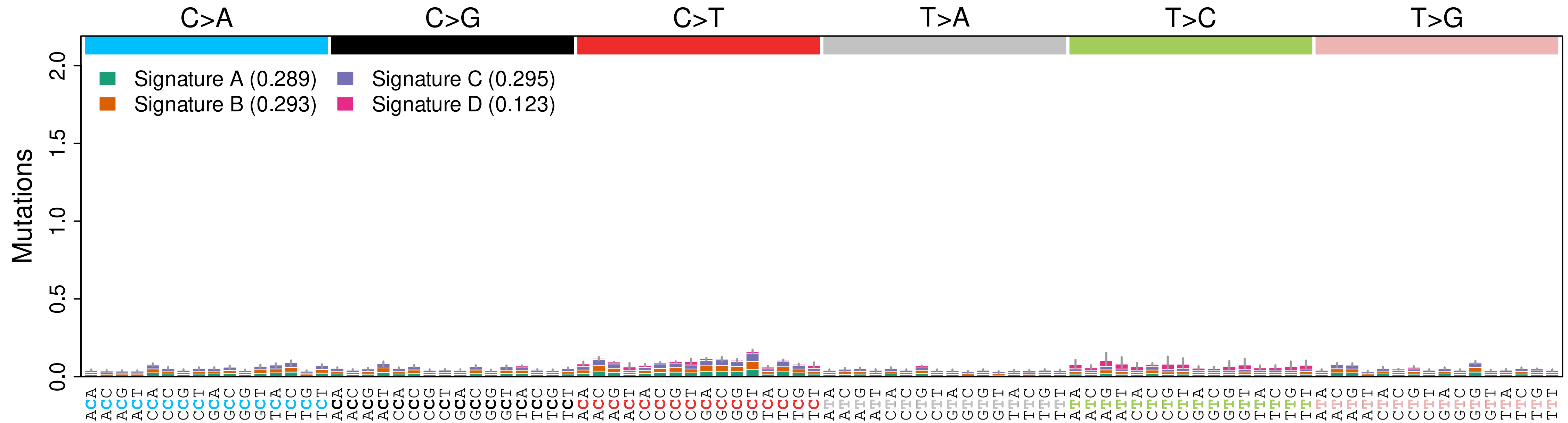
Reconstructed spectrum (cosine similarity = 0.222)



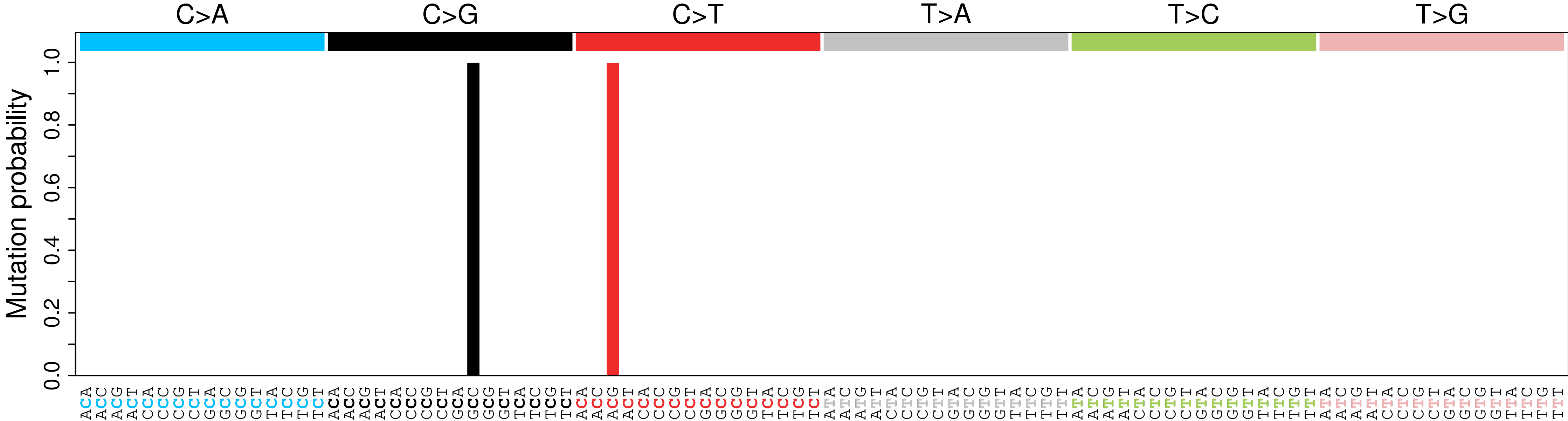
CATD326a (6 mutations)



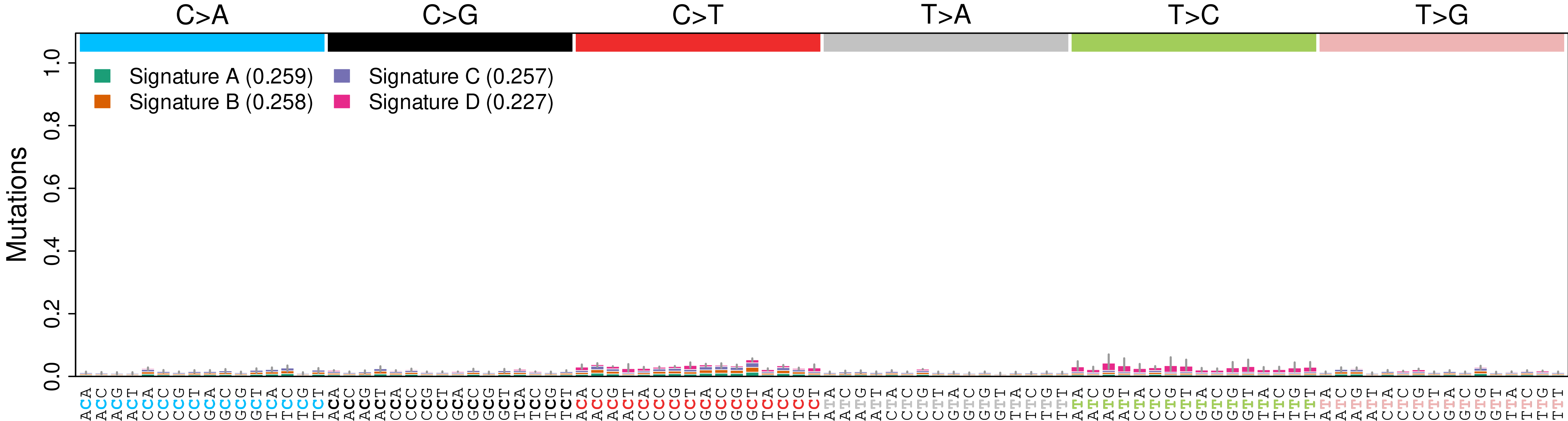
Reconstructed spectrum (cosine similarity = 0.219)



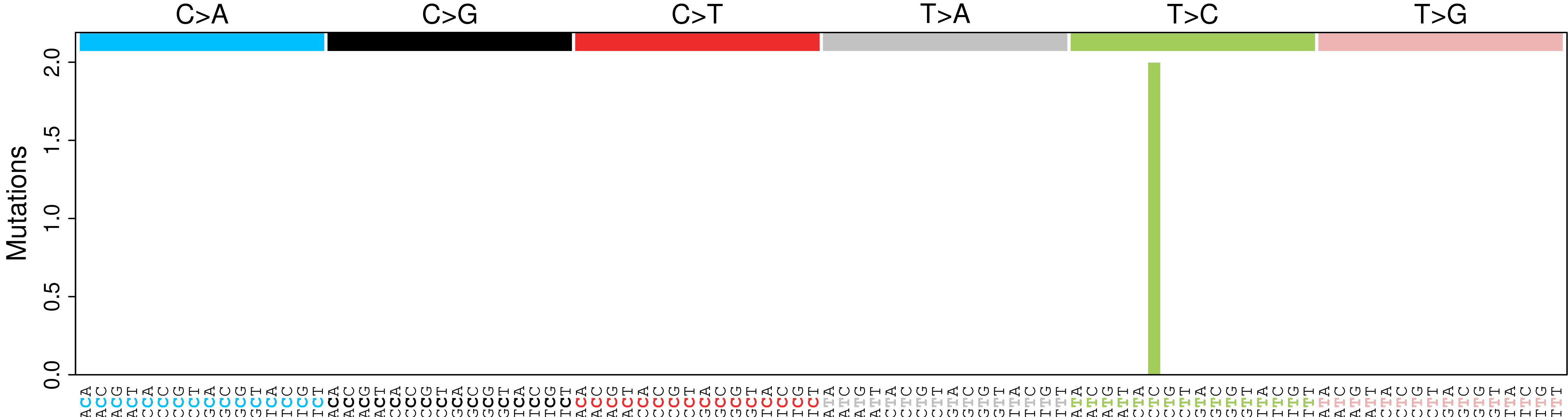
CATD0677a



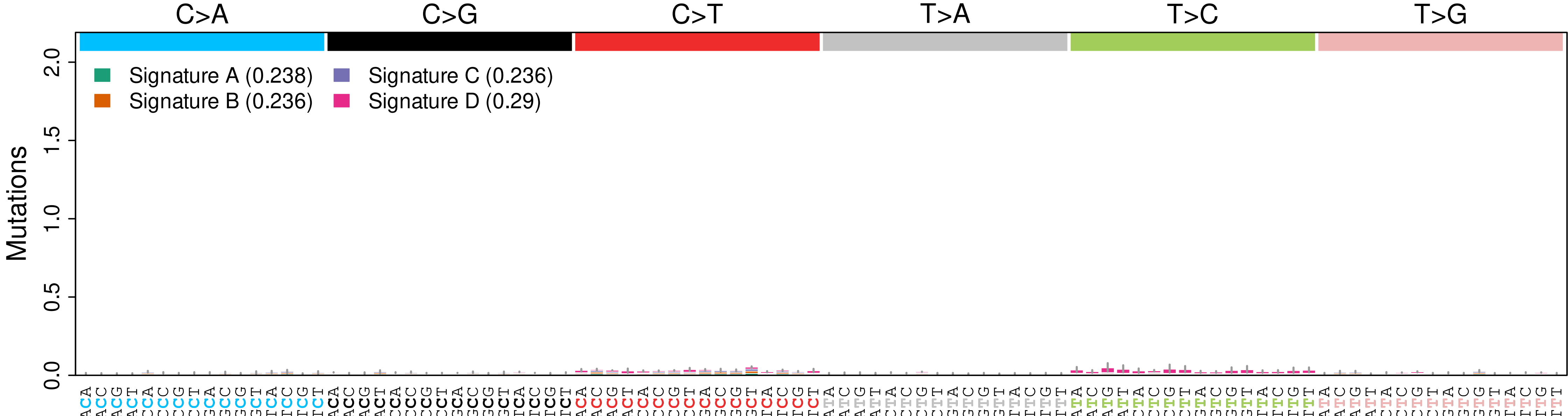
Reconstructed spectrum (cosine similarity = 0.169)



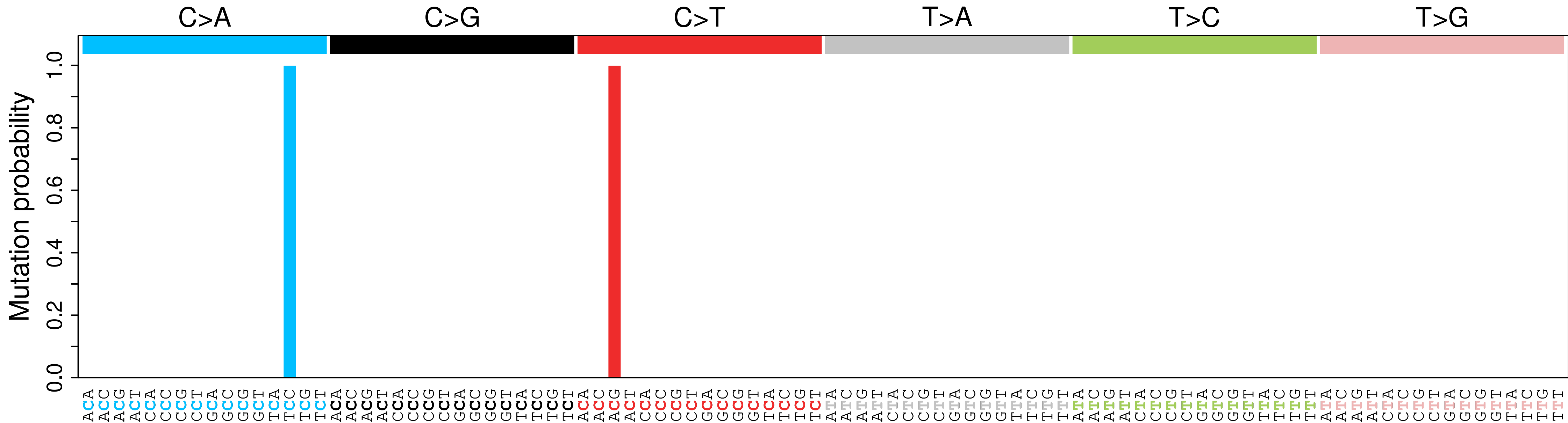
CATD304a (2 mutations)



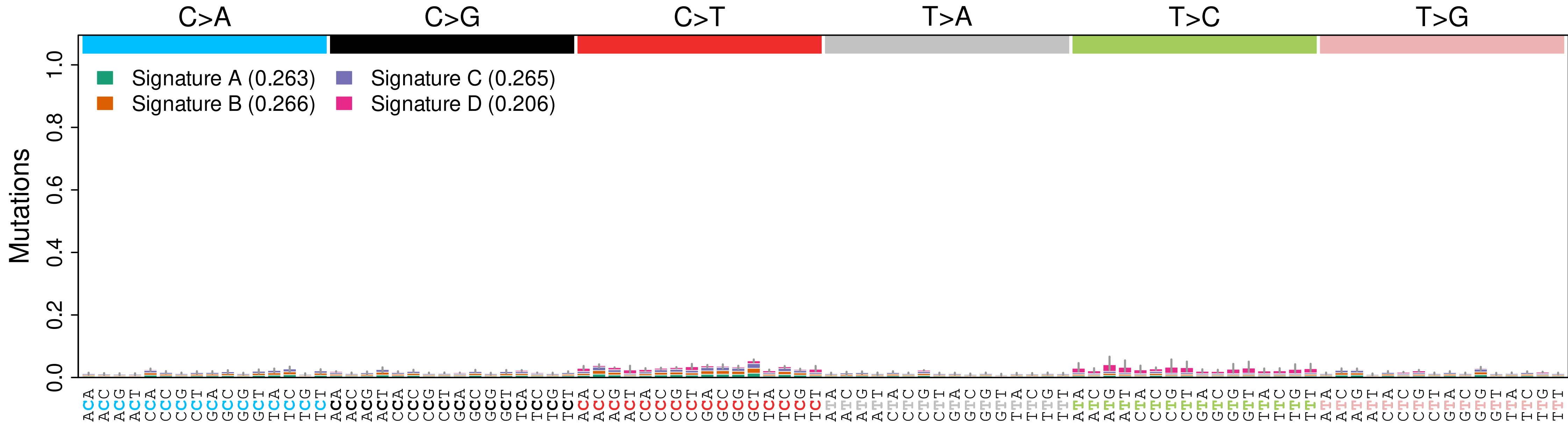
Reconstructed spectrum (cosine similarity = 0.128)



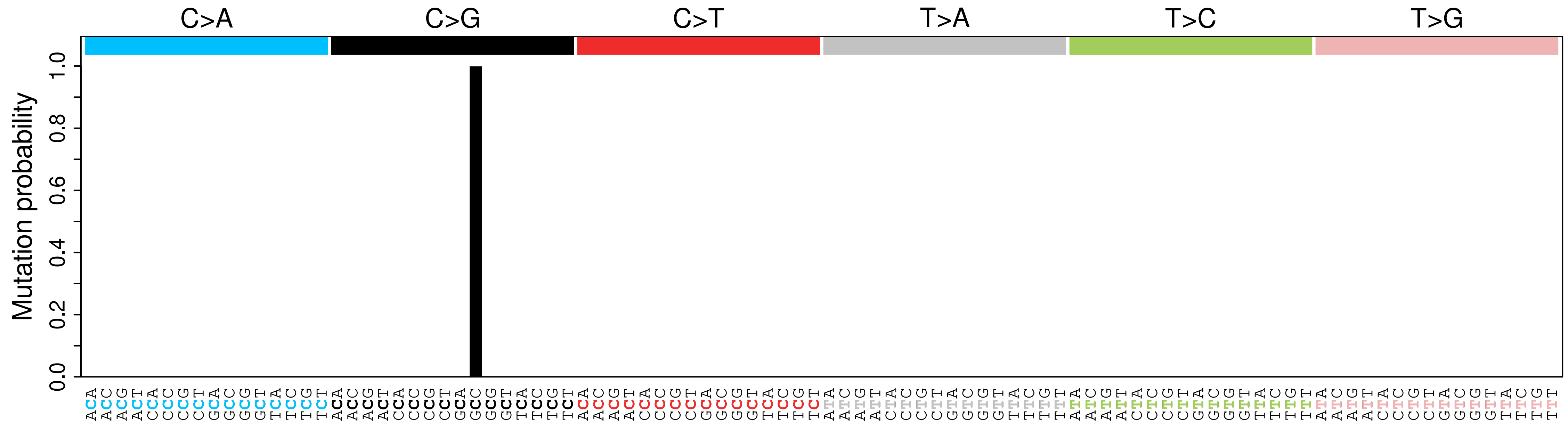
CATD299a



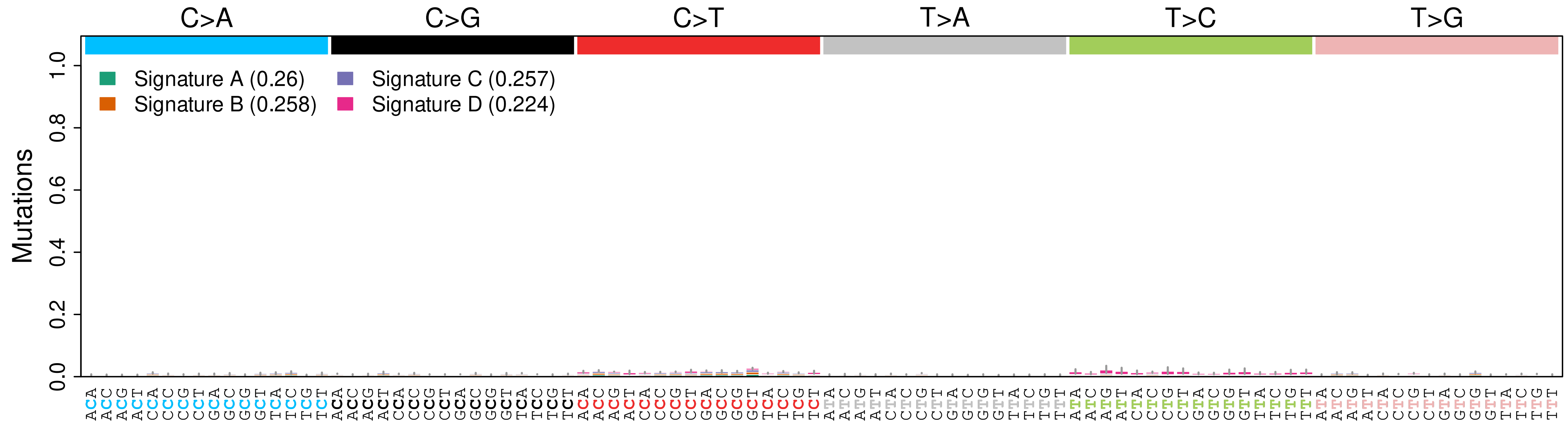
Reconstructed spectrum (cosine similarity = 0.192)



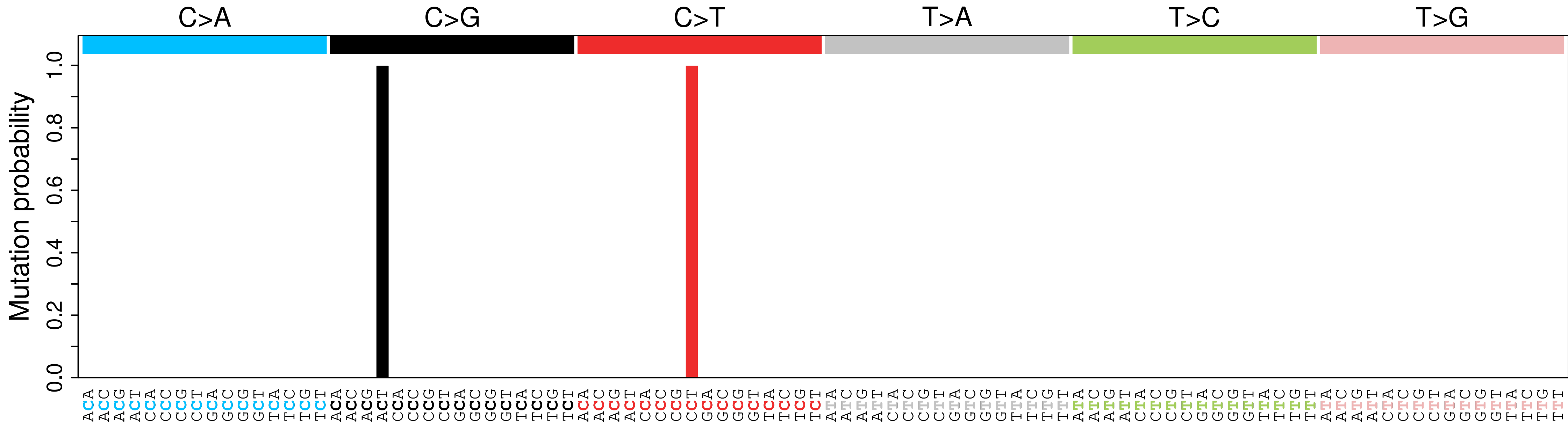
CATD317a



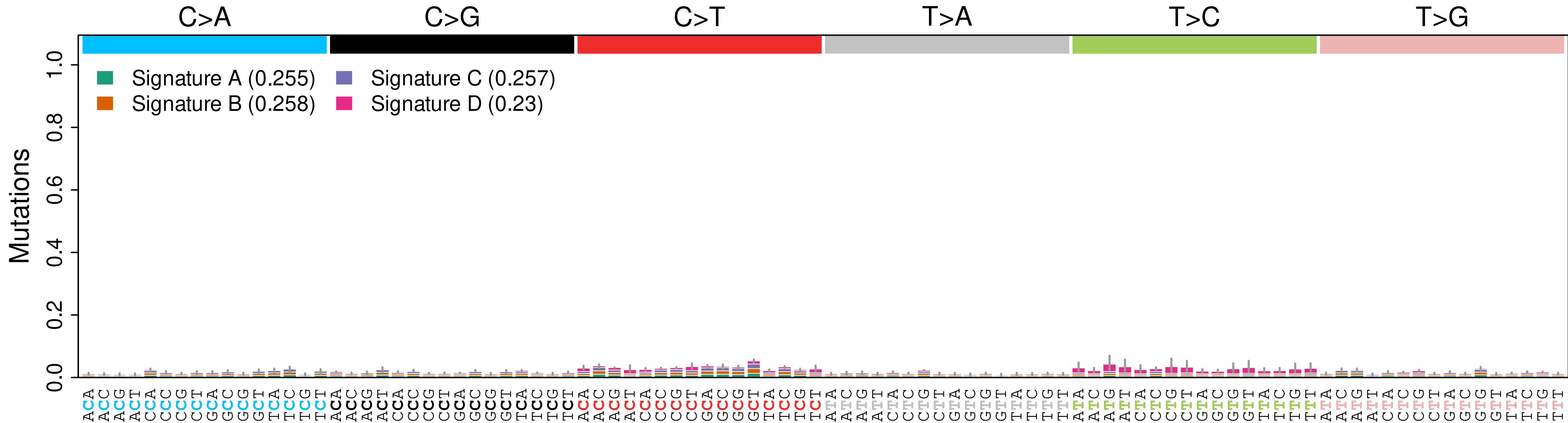
Reconstructed spectrum (cosine similarity = 0.096)



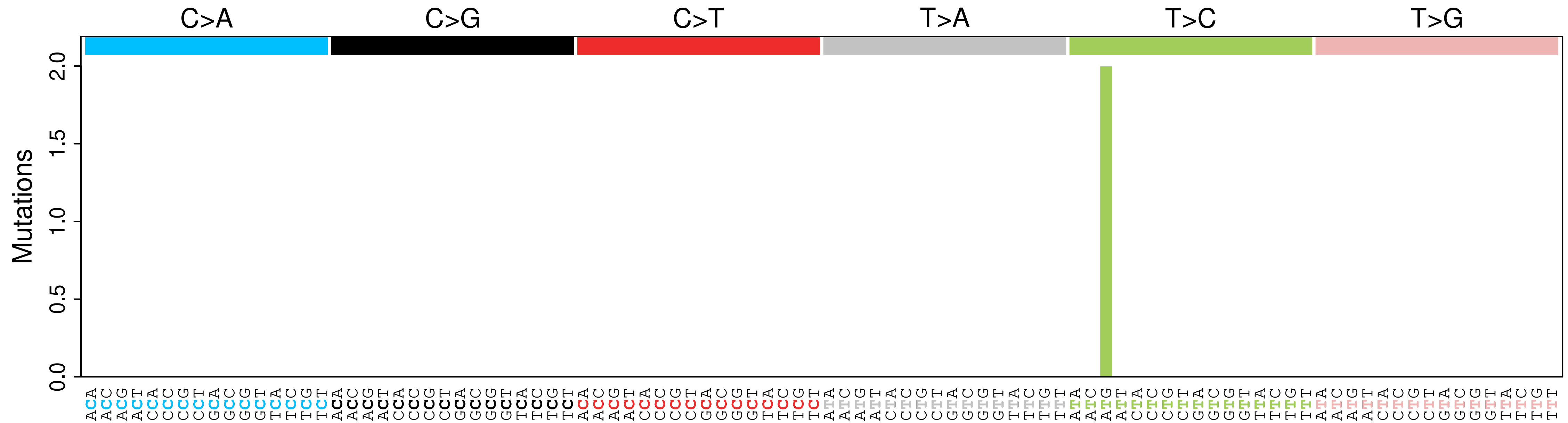
CATD307a



Reconstructed spectrum (cosine similarity = 0.194)



CATD303a (2 mutations)



Reconstructed spectrum (cosine similarity = 0.238)

