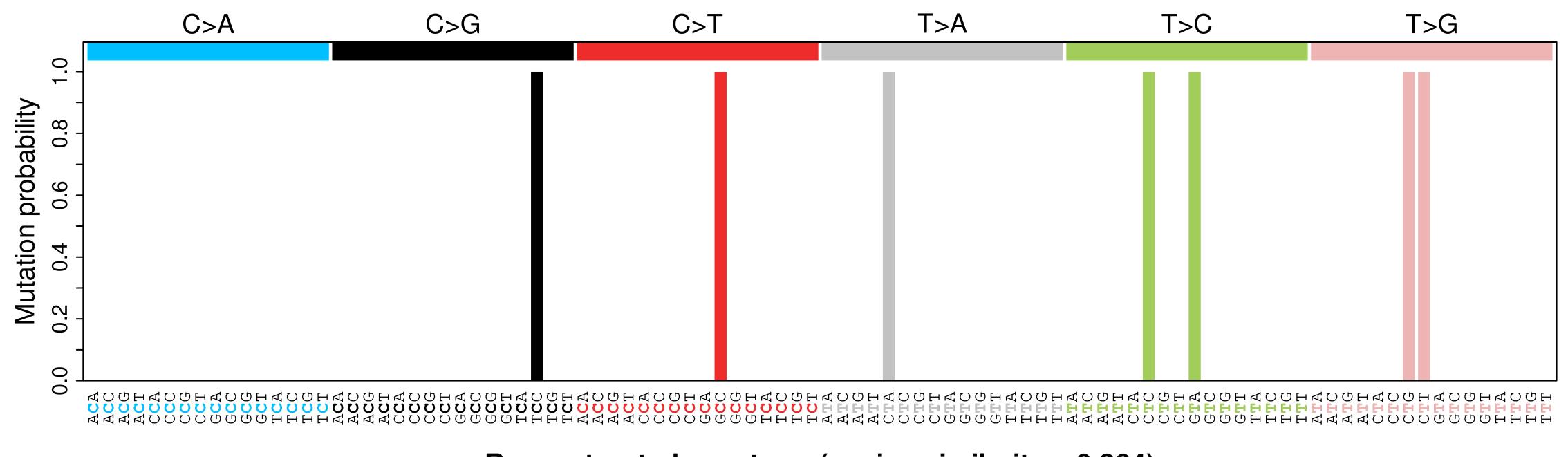
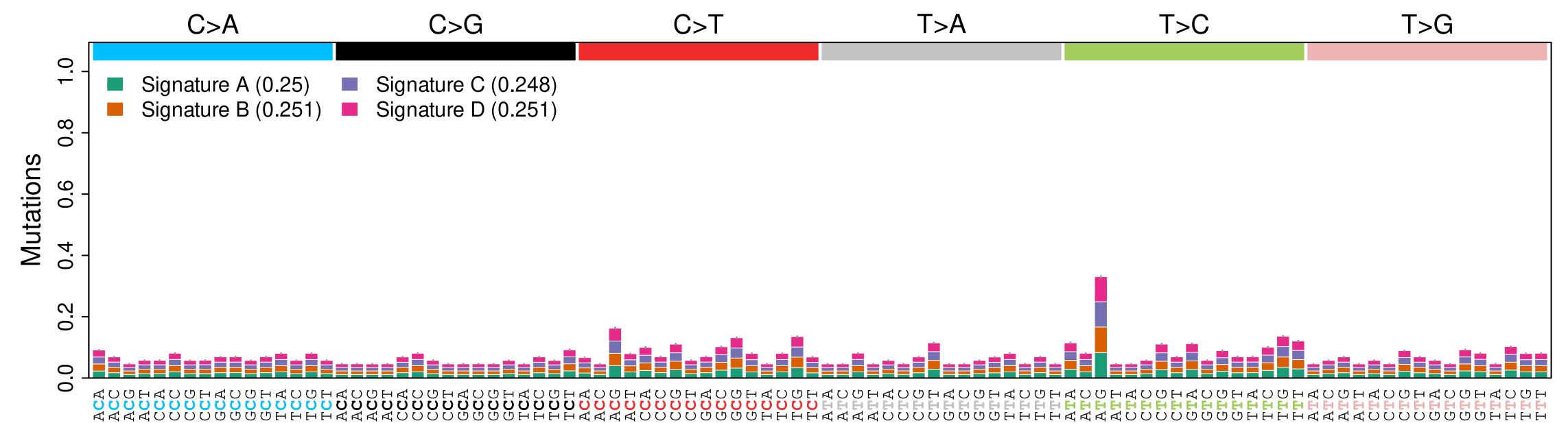
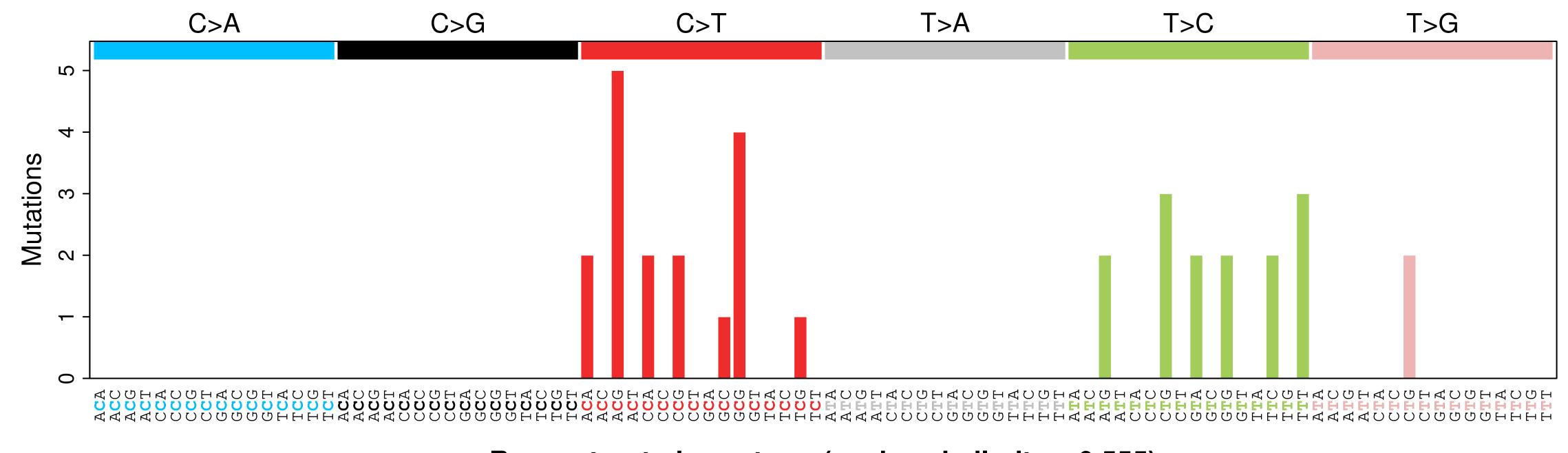
CATD0507a



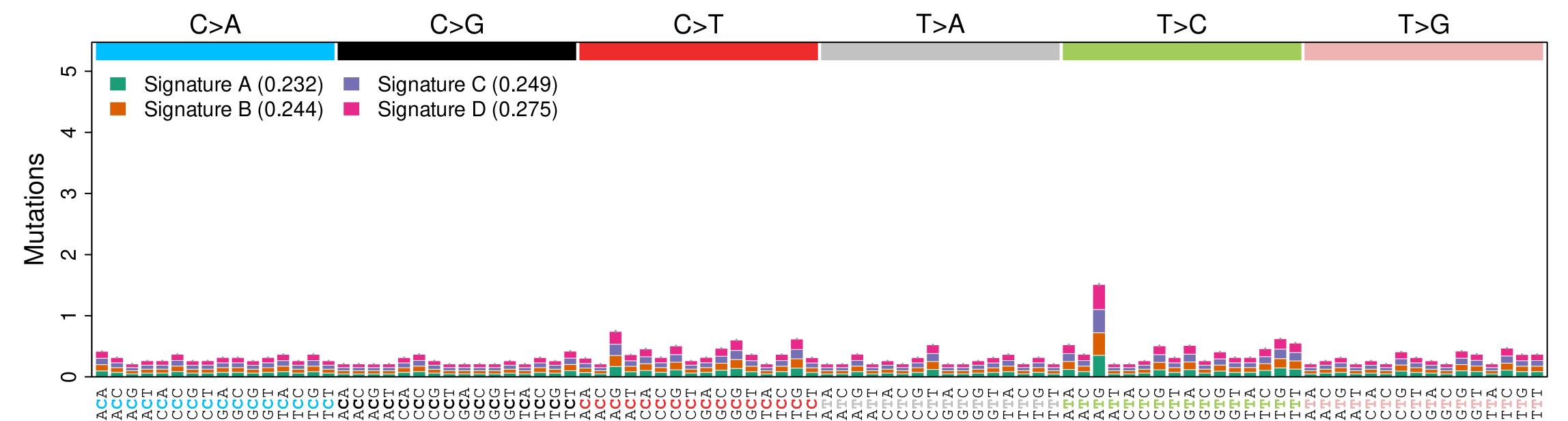
Reconstructed spectrum (cosine similarity = 0.264)



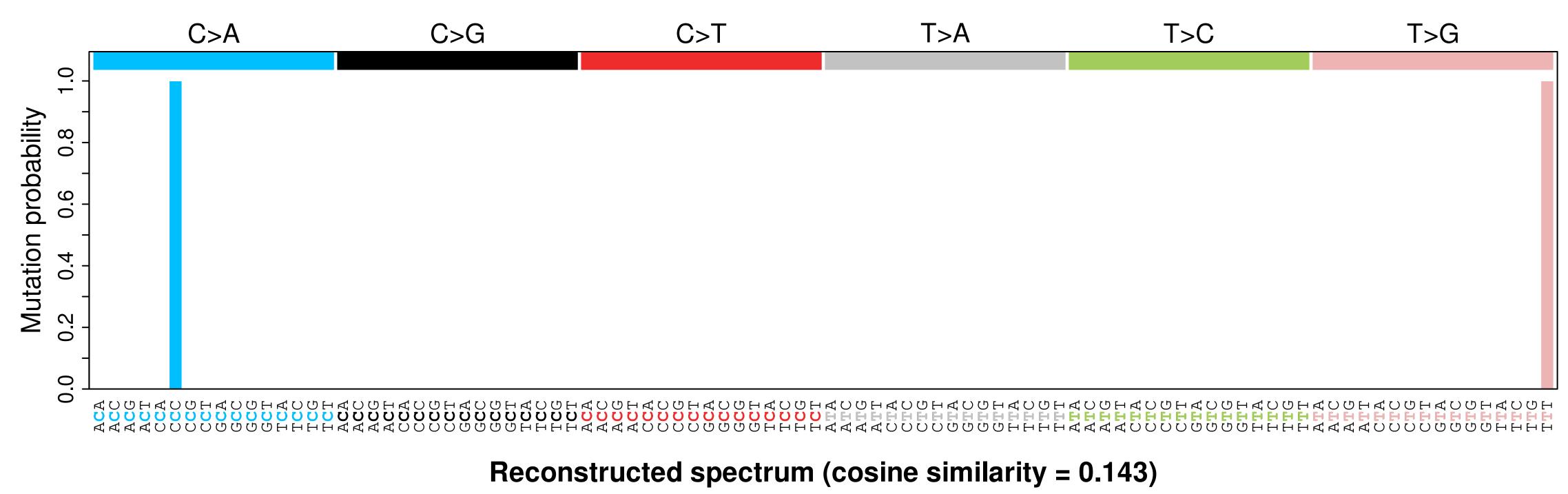
CATD0500a (33 mutations)

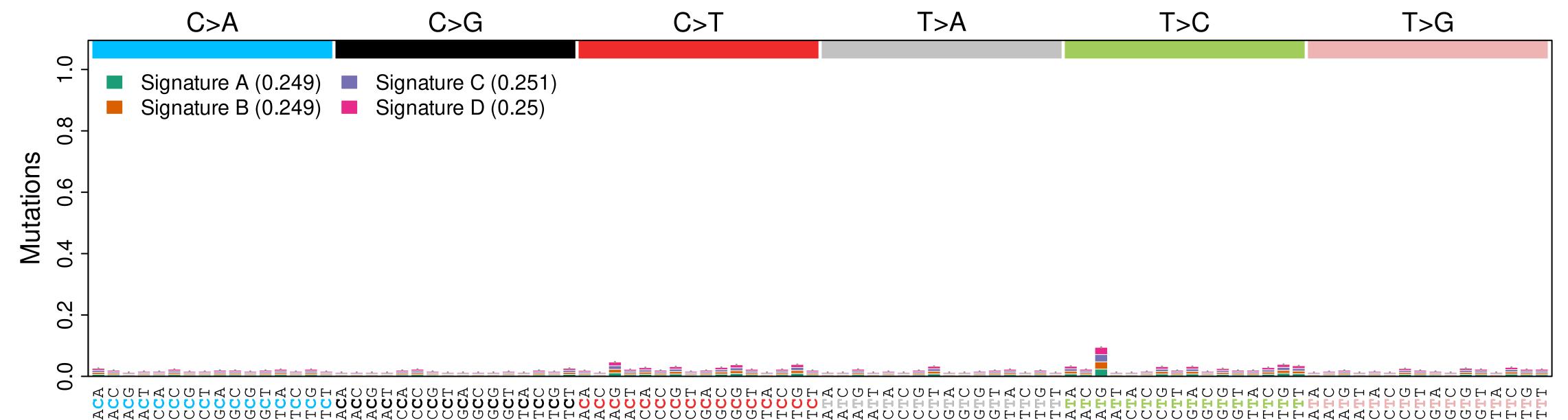


Reconstructed spectrum (cosine similarity = 0.555)

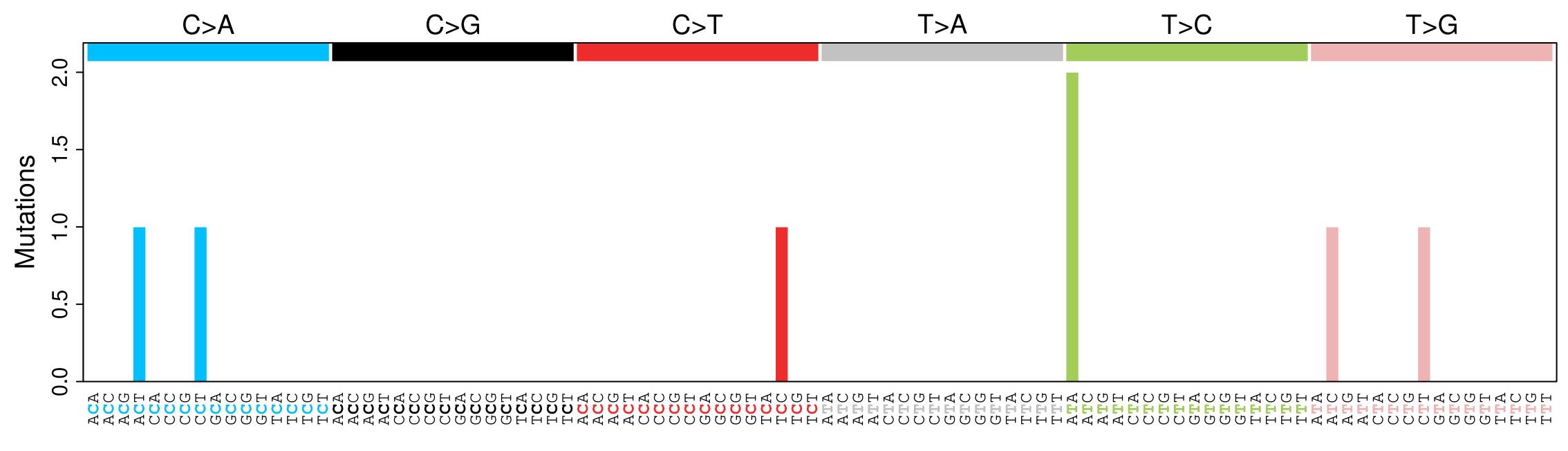




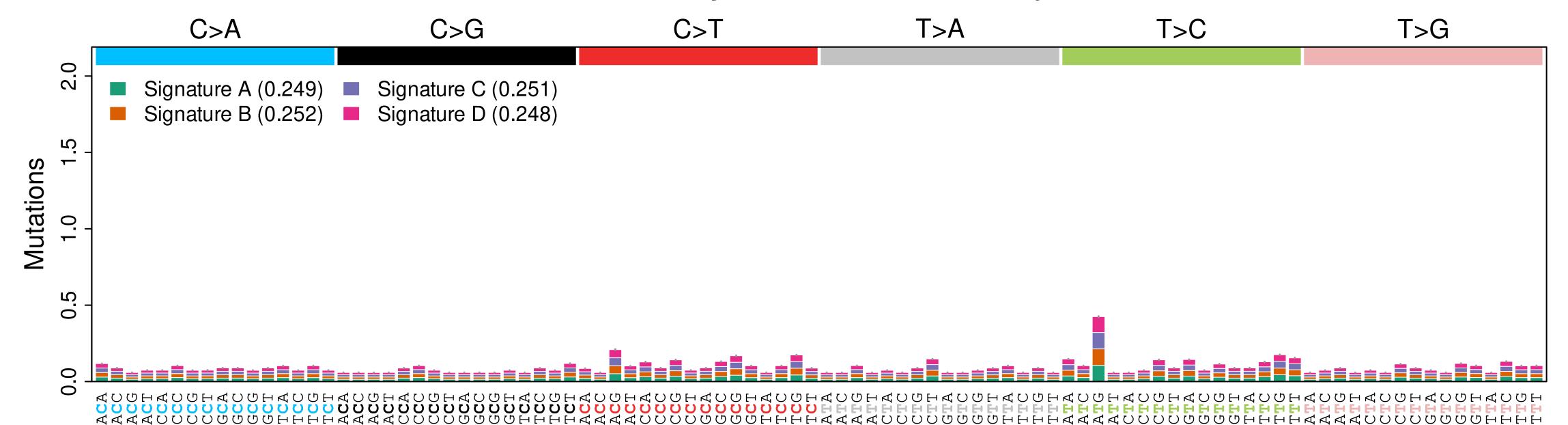




CATD0698a (7 mutations)



Reconstructed spectrum (cosine similarity = 0.23)

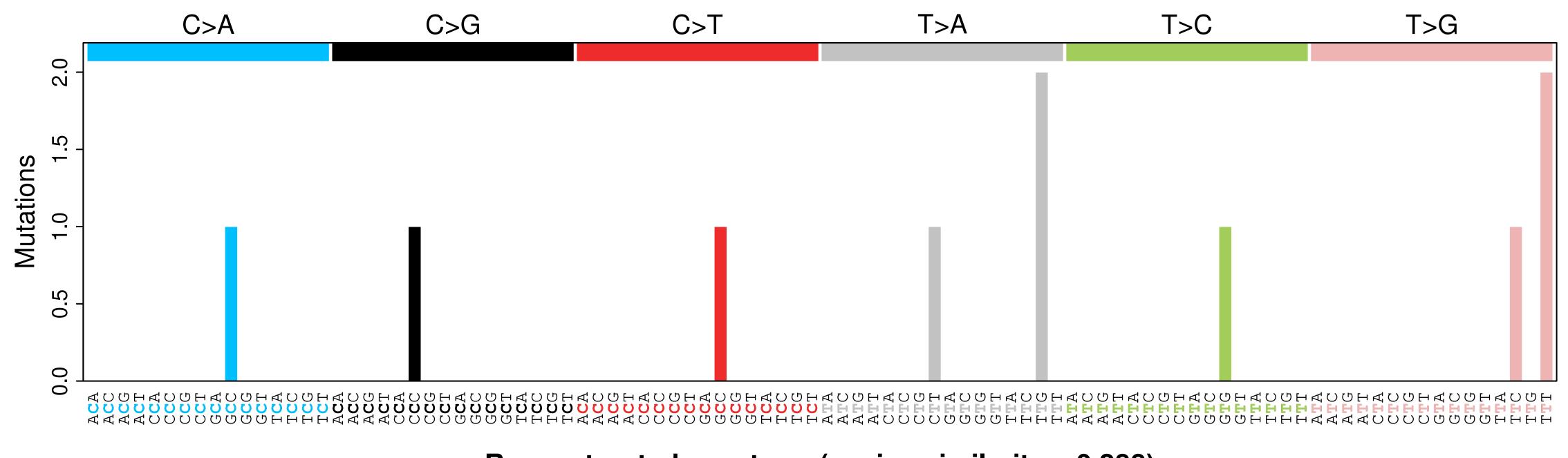


CATD0480a (3 mutations) T>G C>A C>G C>T T>A T>C 2.0 5 Mutations 0.5 0.0 **Reconstructed spectrum (cosine similarity = 0.297)** T>C T>G C>A C>G T>A C>T 2.0 Signature A (0.249) Signature C (0.251) Signature B (0.249) Signature D (0.251) 5 Mutations 5 0

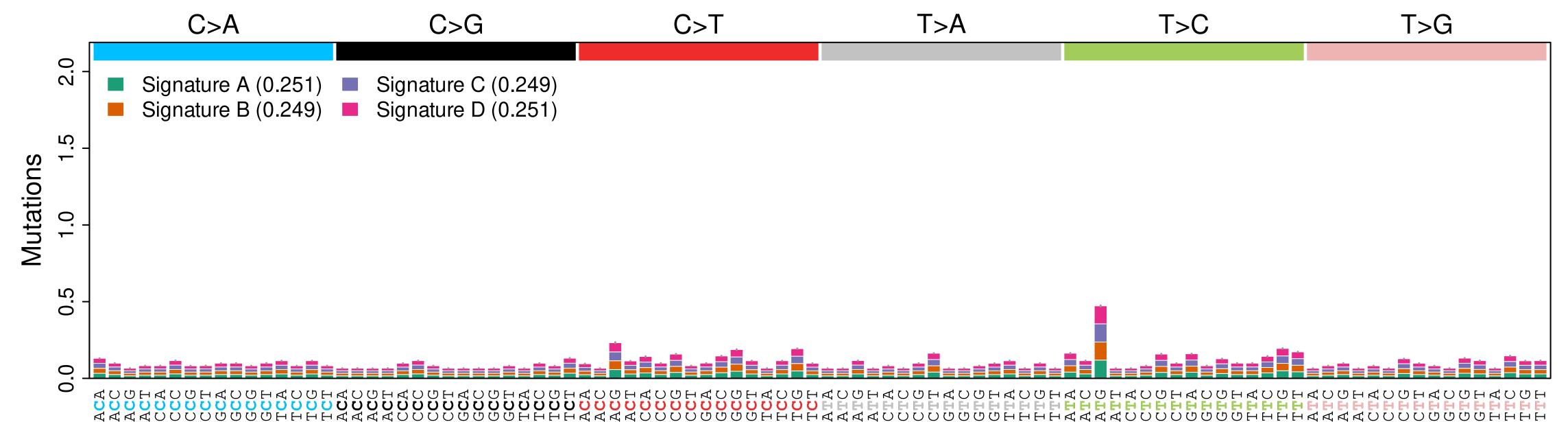
CATD0491a (3 mutations) T>G C>A C>G C>T T>A T>C 2.0 5 Mutations 0.5 0.0 **Reconstructed spectrum (cosine similarity = 0.314)** T>C T>G C>A C>G T>A C>T 2.0 Signature A (0.25) Signature C (0.25) Signature B (0.251) Signature D (0.25) 5 Mutations 5 0 0

CATD0689a (7 mutations) T>G C>A C>G C>T T>A T>C 2.0 5 Mutations 0.5 0.0 **Reconstructed spectrum (cosine similarity = 0.435)** T>C T>G C>A C>G T>A C>T 2.0 Signature A (0.249) Signature C (0.251) Signature B (0.251) Signature D (0.249) 5 Mutations 2 0

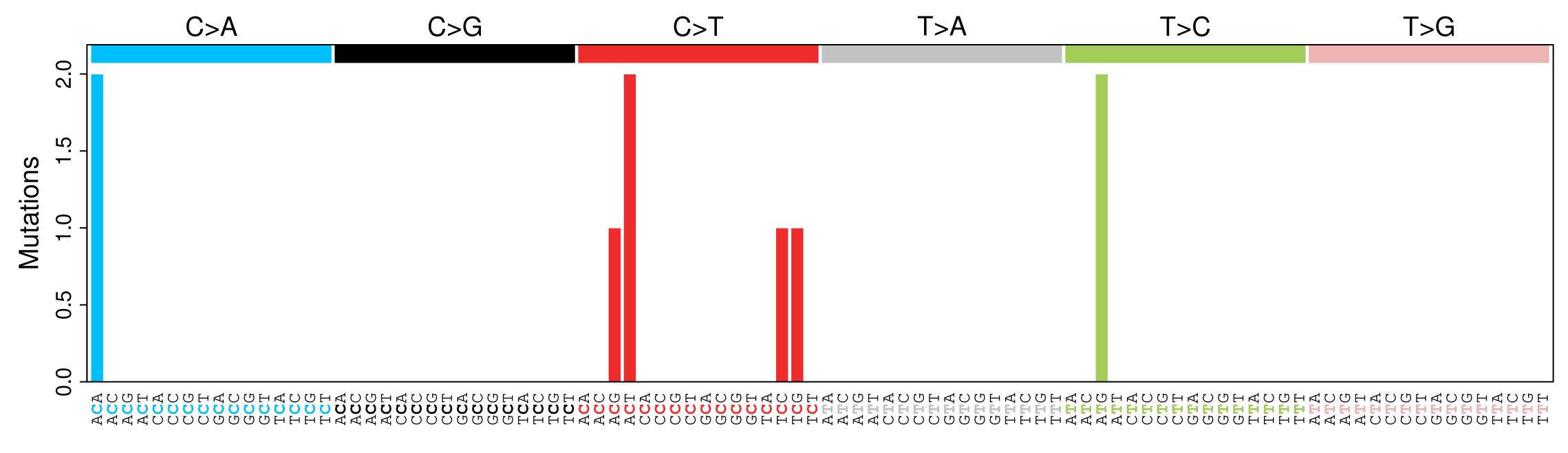
CATD0740a (10 mutations)

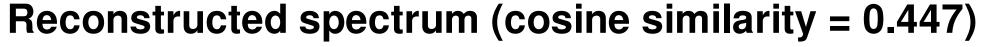


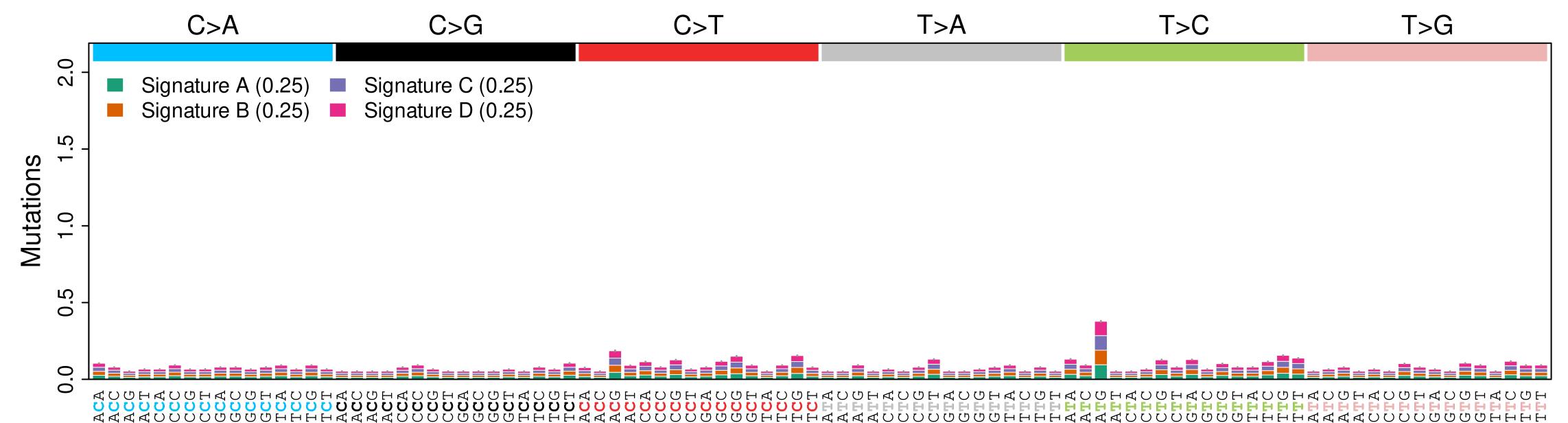
Reconstructed spectrum (cosine similarity = 0.288)



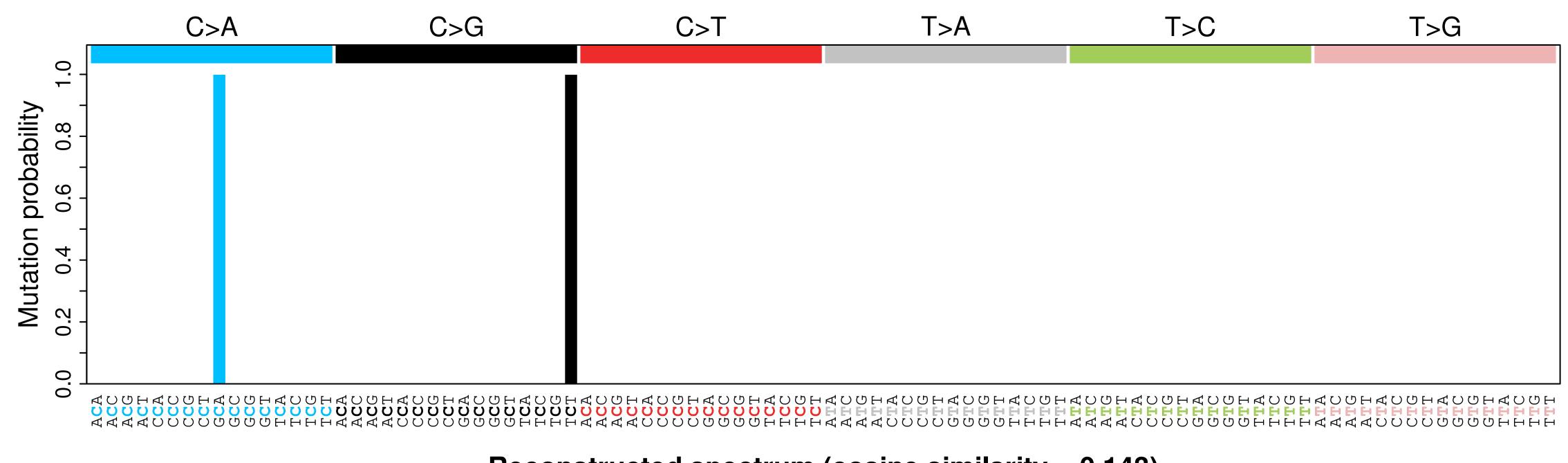
CATD0701a (9 mutations)



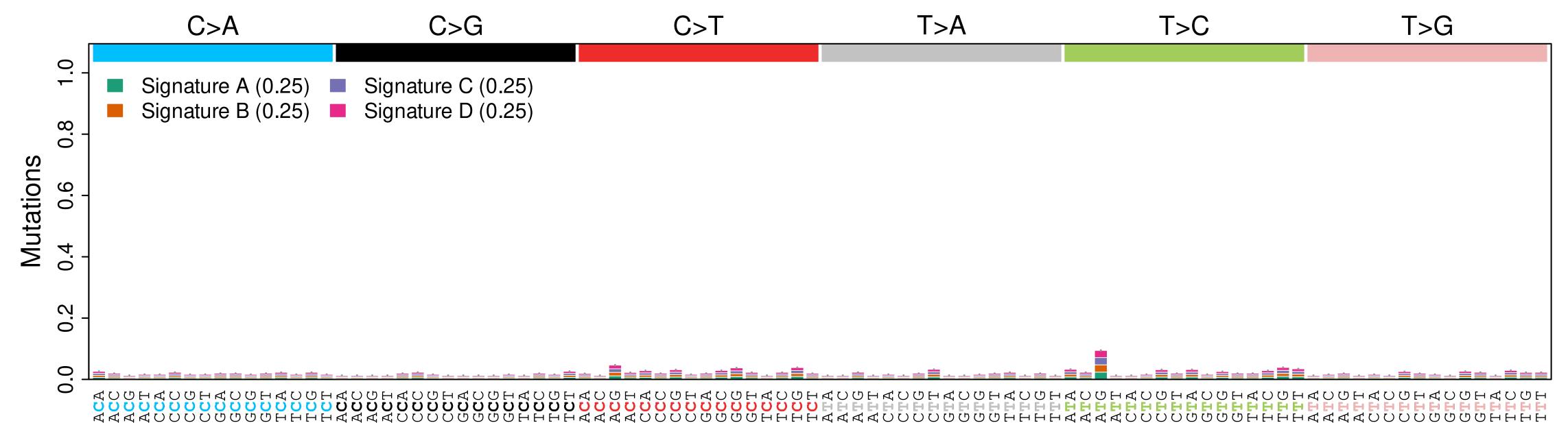




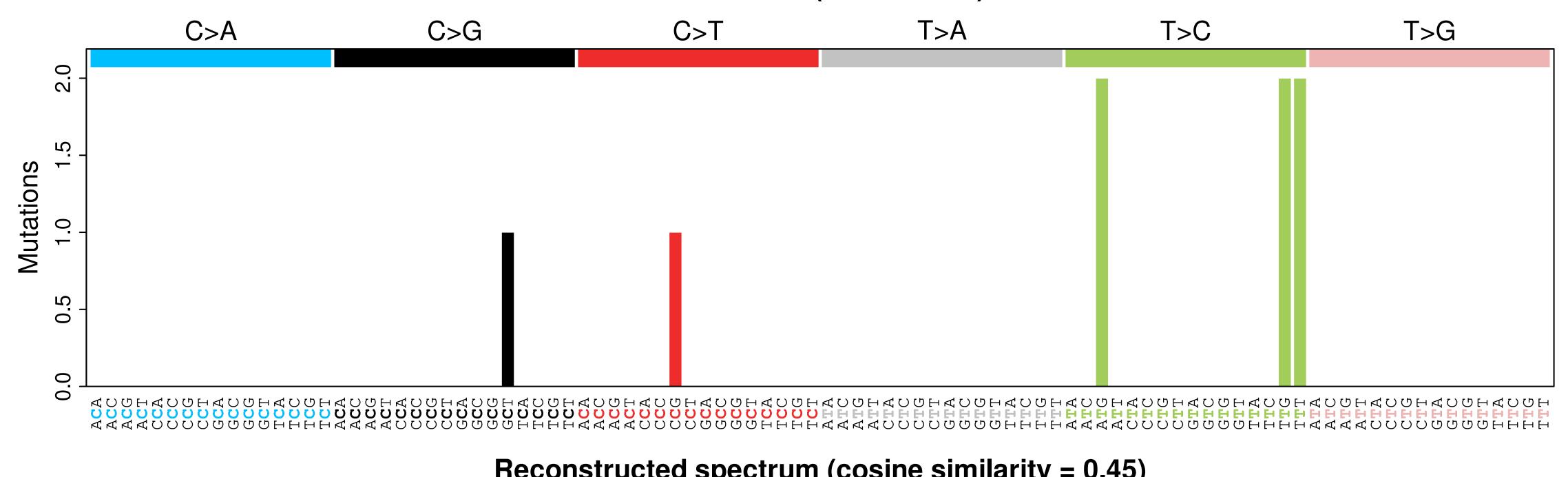




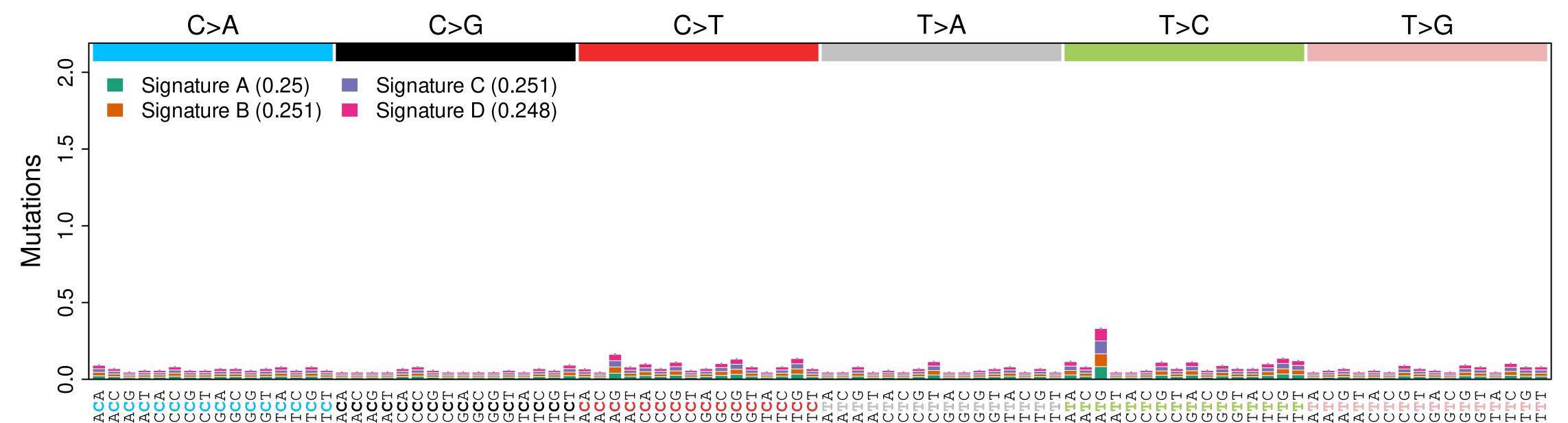
Reconstructed spectrum (cosine similarity = 0.143)



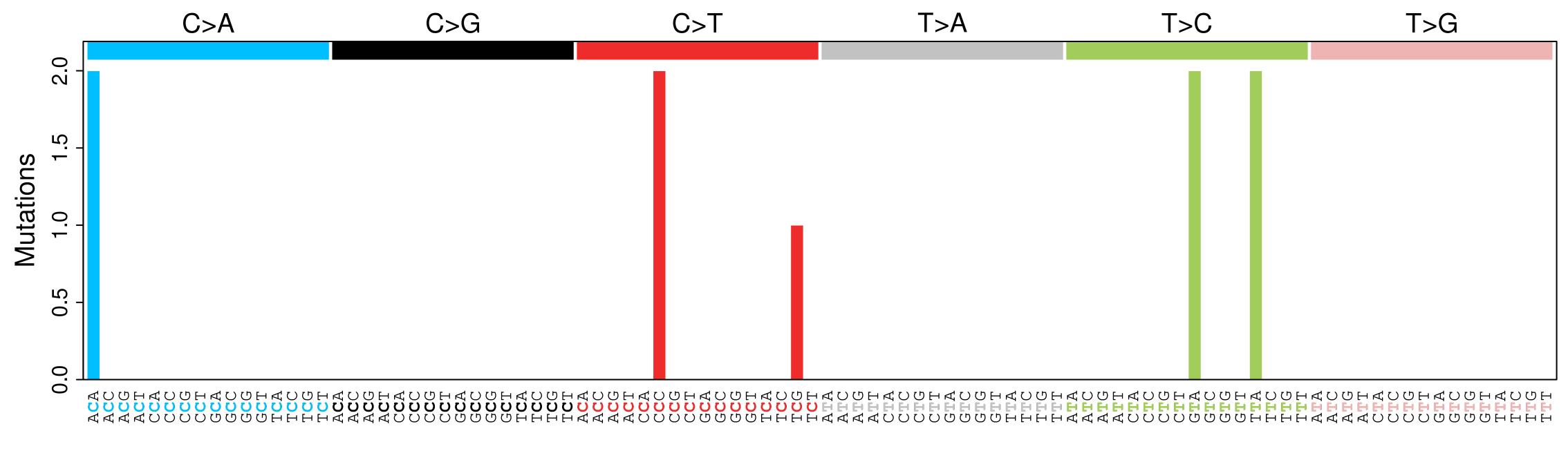
CATD0702a (8 mutations)

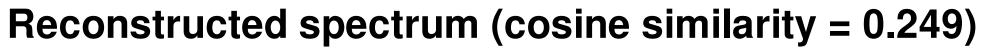


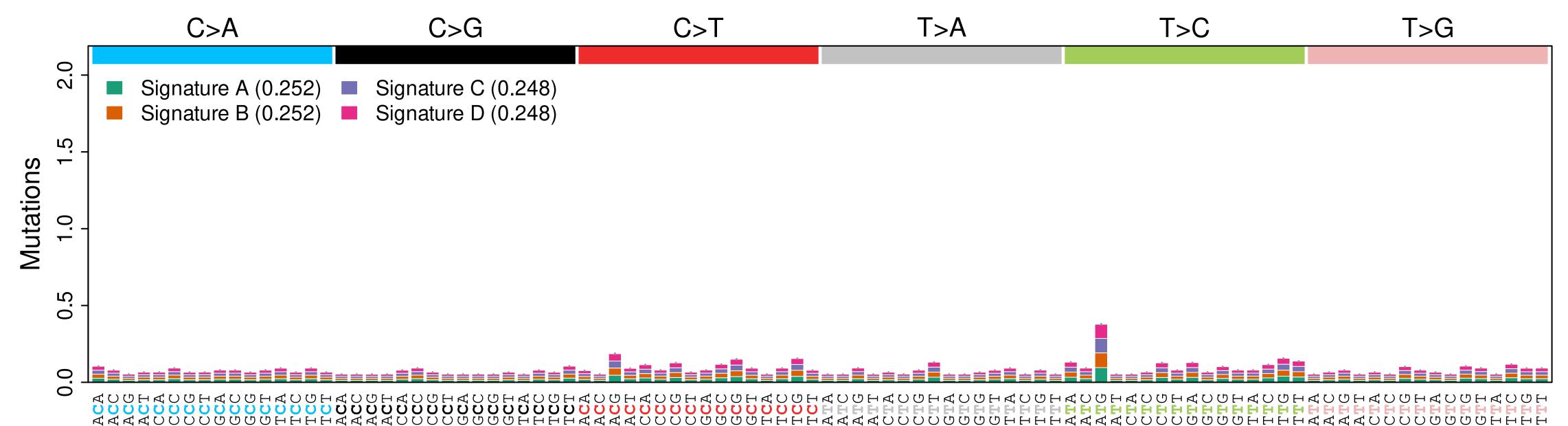
Reconstructed spectrum (cosine similarity = 0.45)



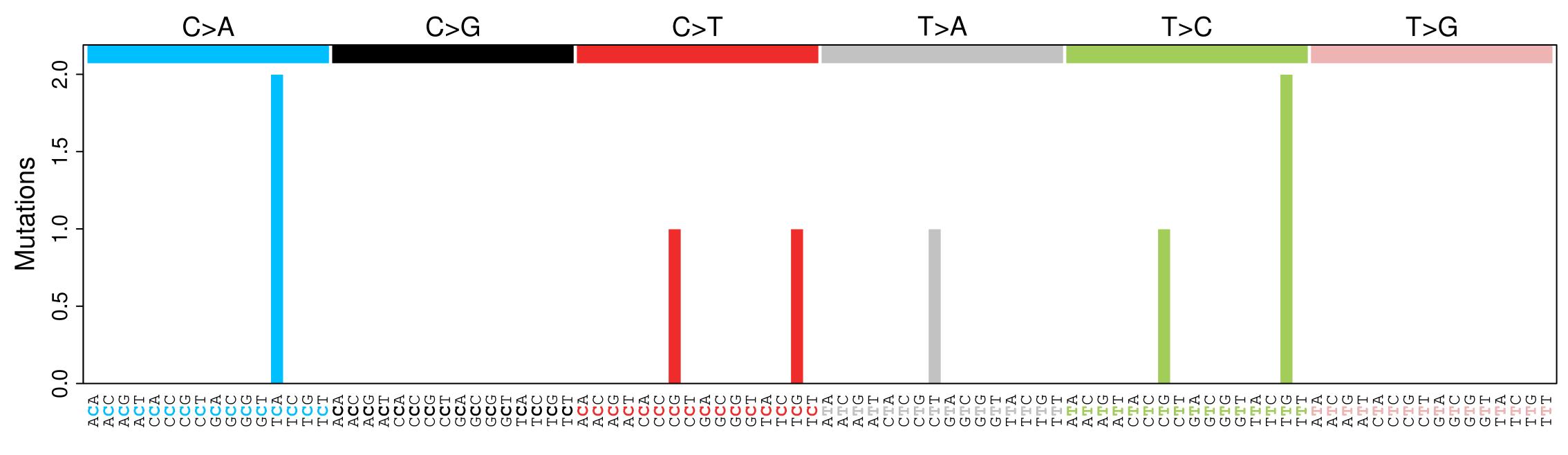
CATD0505a (9 mutations)



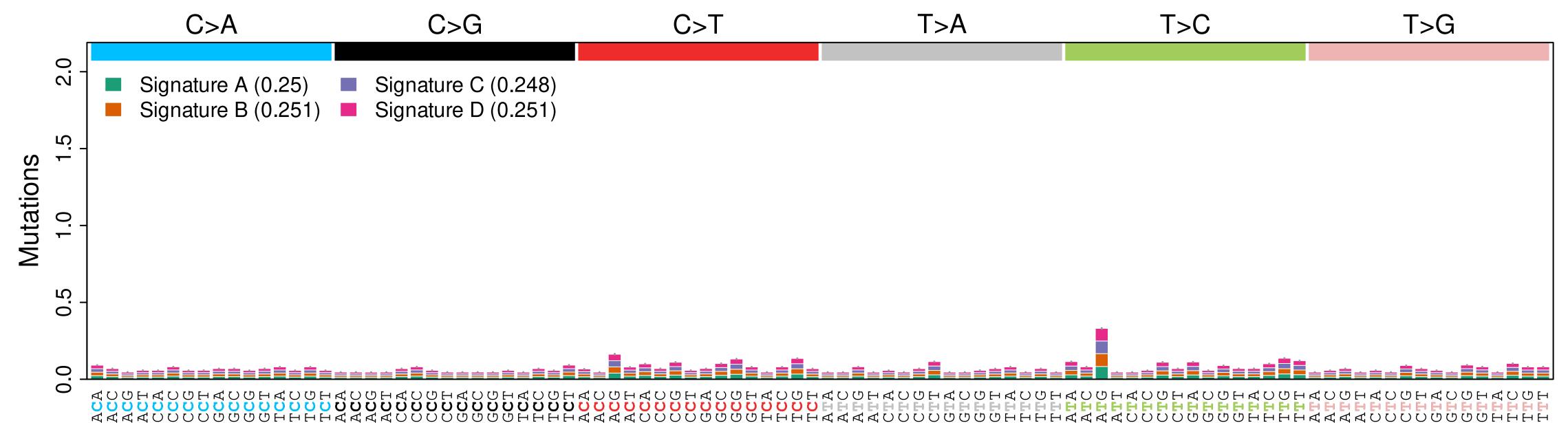




CATD0482a (8 mutations)

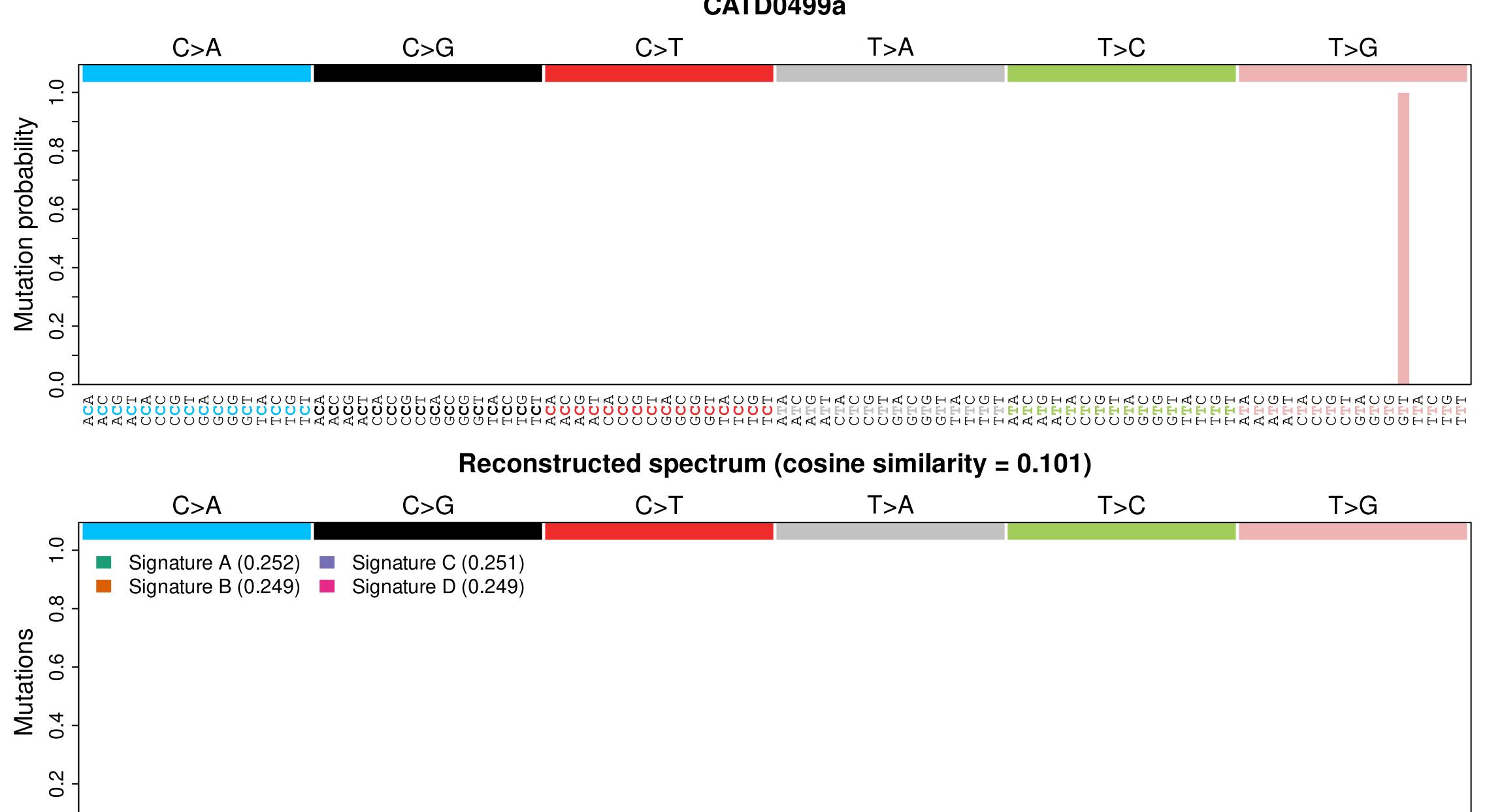


Reconstructed spectrum (cosine similarity = 0.327)

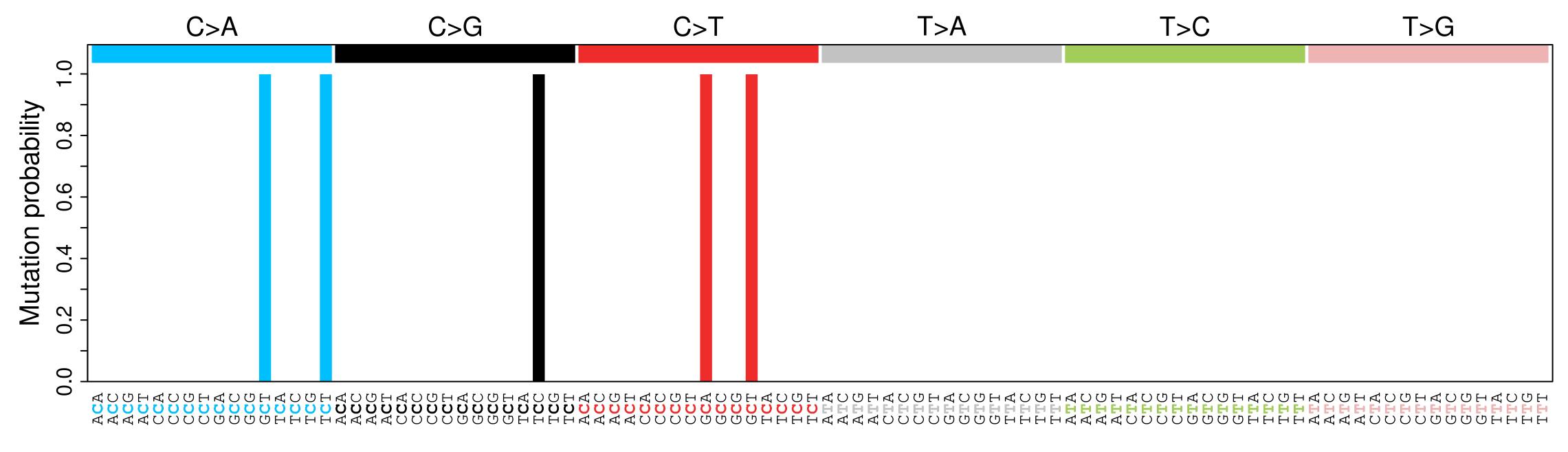


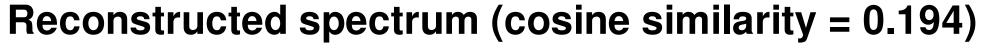
CATD0694a (4 mutations) T>G C>A C>G C>T T>A T>C 2.0 5 Mutations 0.5 0.0 **Reconstructed spectrum (cosine similarity = 0.221)** T>C T>G C>A C>G T>A C>T 2.0 Signature A (0.253) Signature C (0.248) Signature B (0.249) Signature D (0.249) 5 Mutations 5 0 0

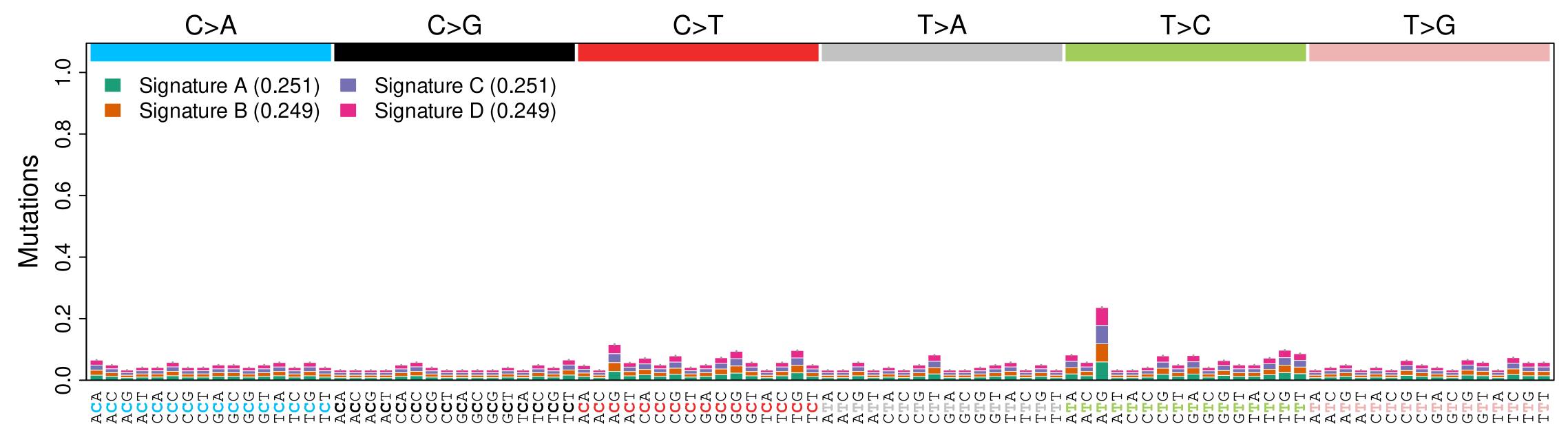




CATD0504a



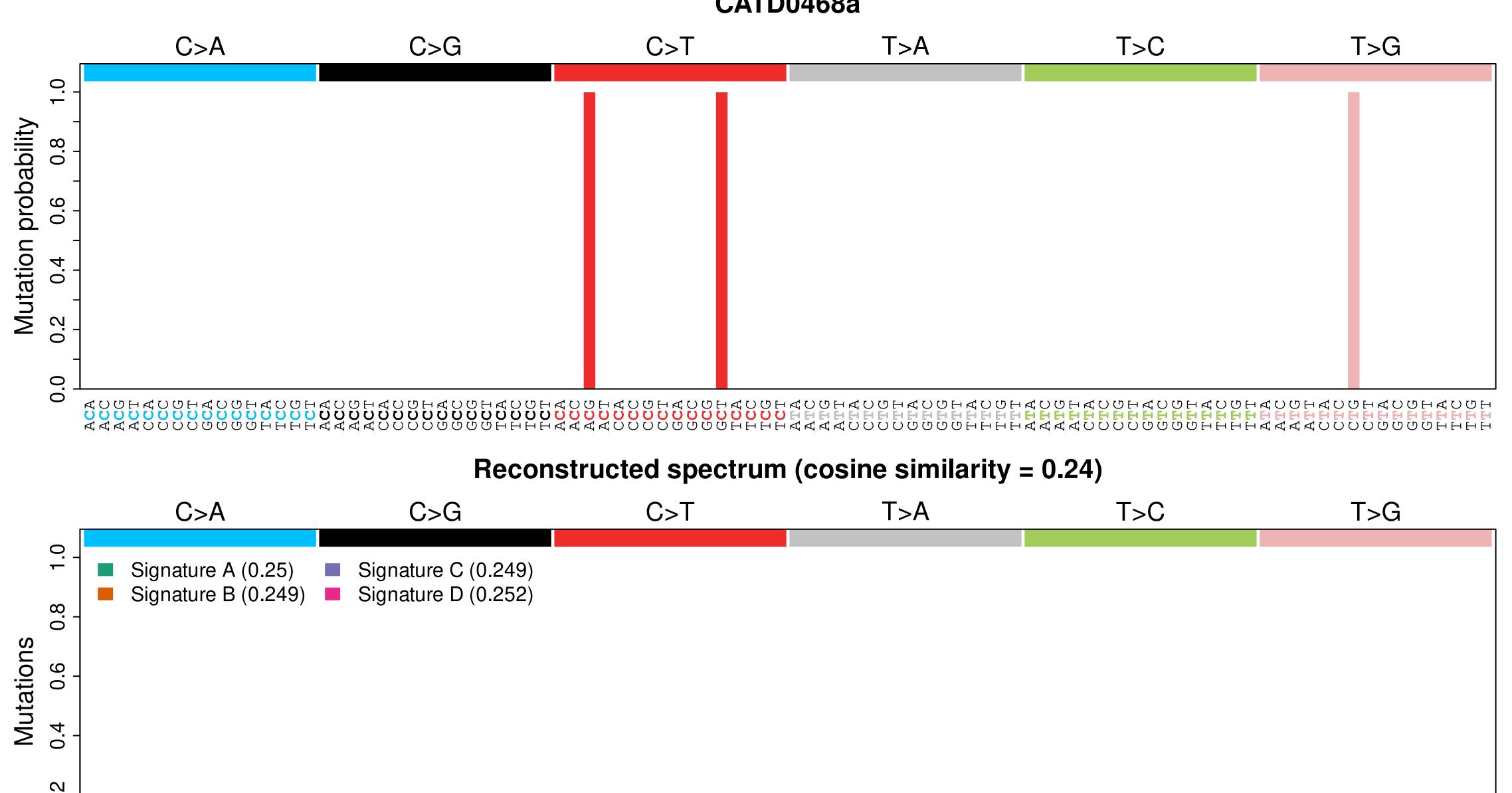




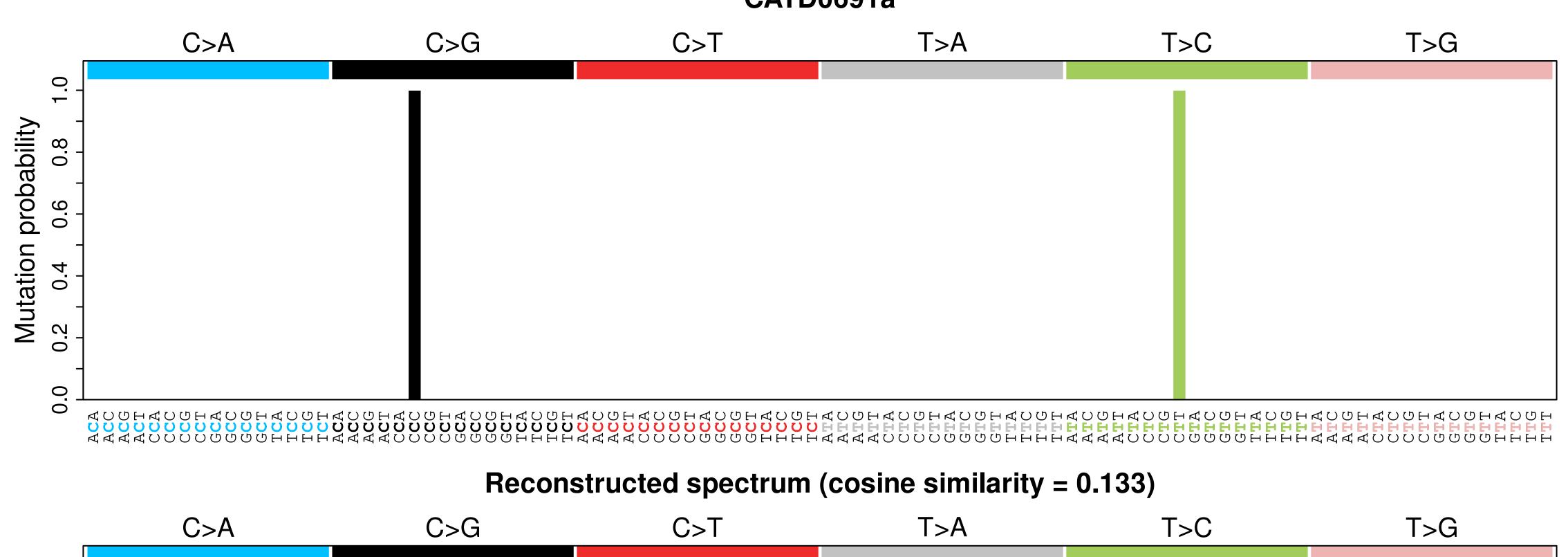
CATD0700a (6 mutations) T>G C>A C>G C>T T>A T>C 2.0 5 Mutations 0.5 0 **Reconstructed spectrum (cosine similarity = 0.224)** T>C T>G C>A C>G T>A C>T 2.0 Signature A (0.252) Signature C (0.25) Signature B (0.251) Signature D (0.248) 5 Mutations 2 0

CATD0469a (6 mutations) T>G C>A C>G C>T T>A T>C 2.0 5 Mutations 0.5 0.0 **Reconstructed spectrum (cosine similarity = 0.392)** T>C T>G C>A C>G T>A C>T 2.0 Signature A (0.25) Signature C (0.249) Signature B (0.252) Signature D (0.249) 5 Mutations 2 0

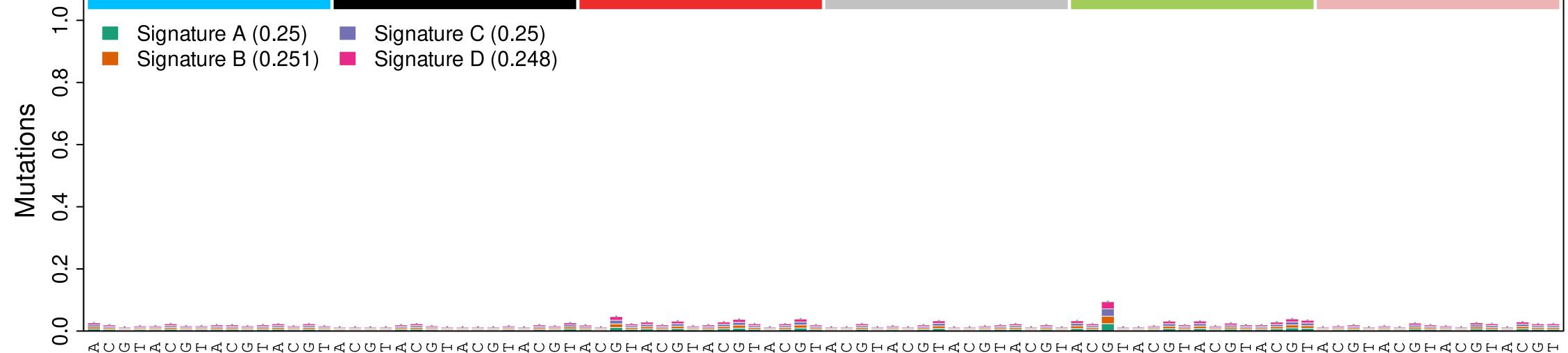




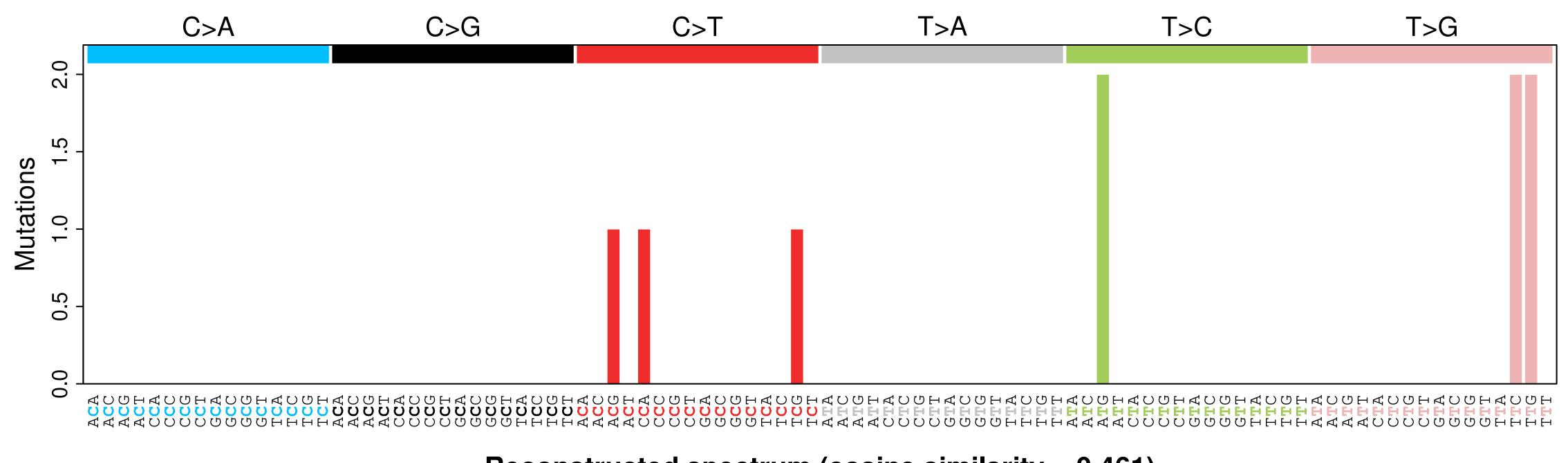




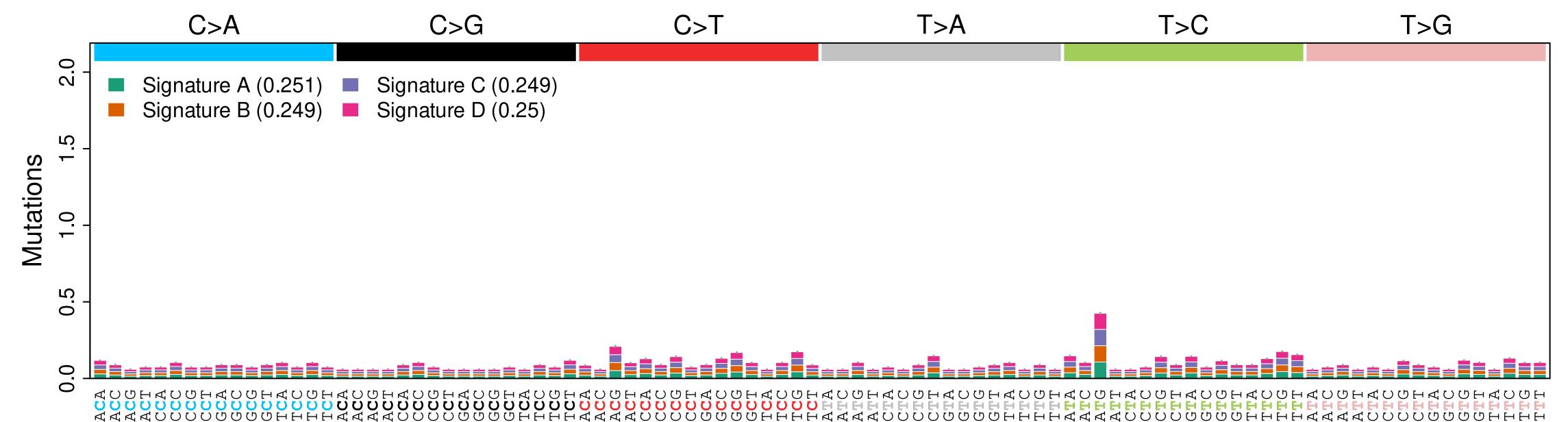




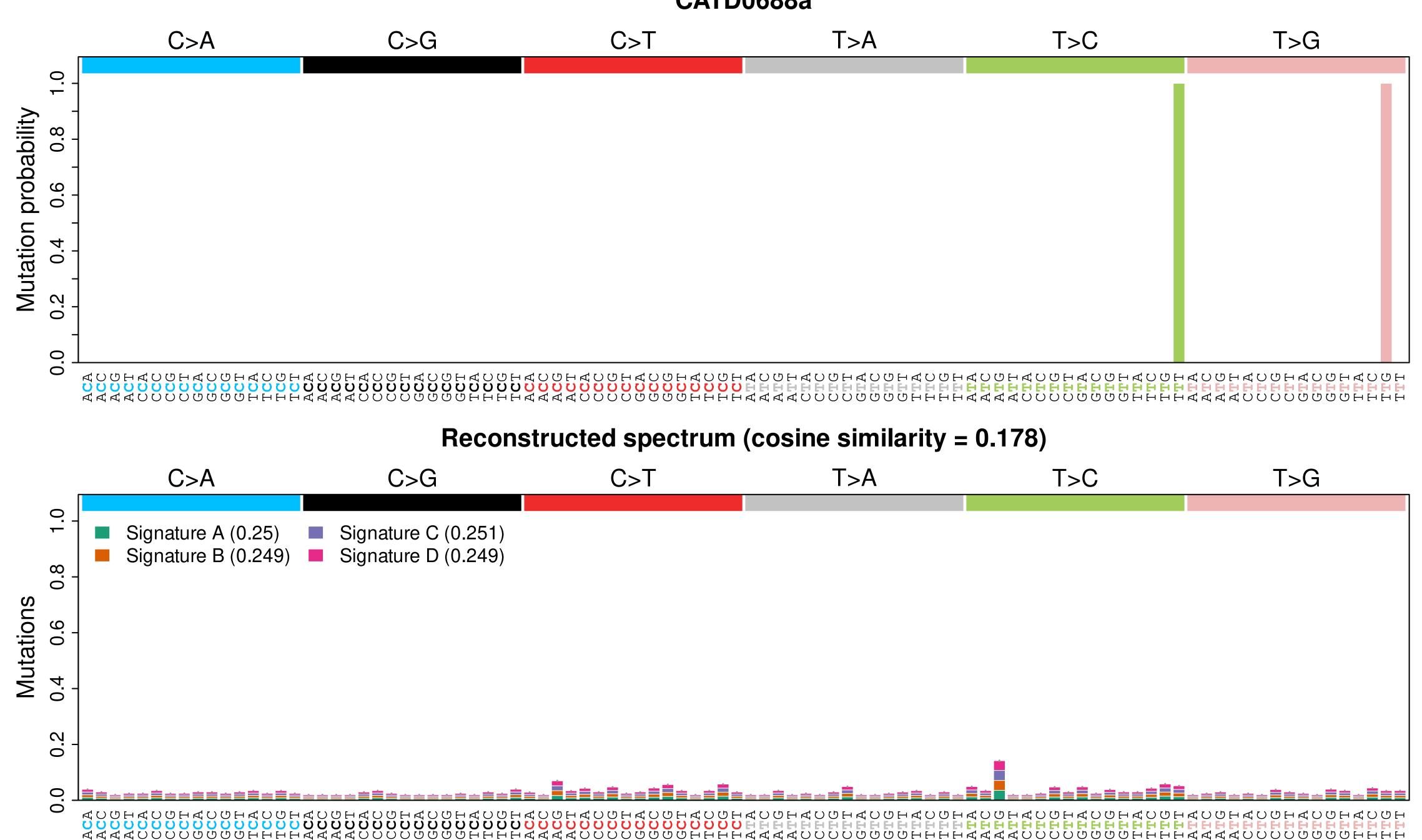
CATD0479a (9 mutations)



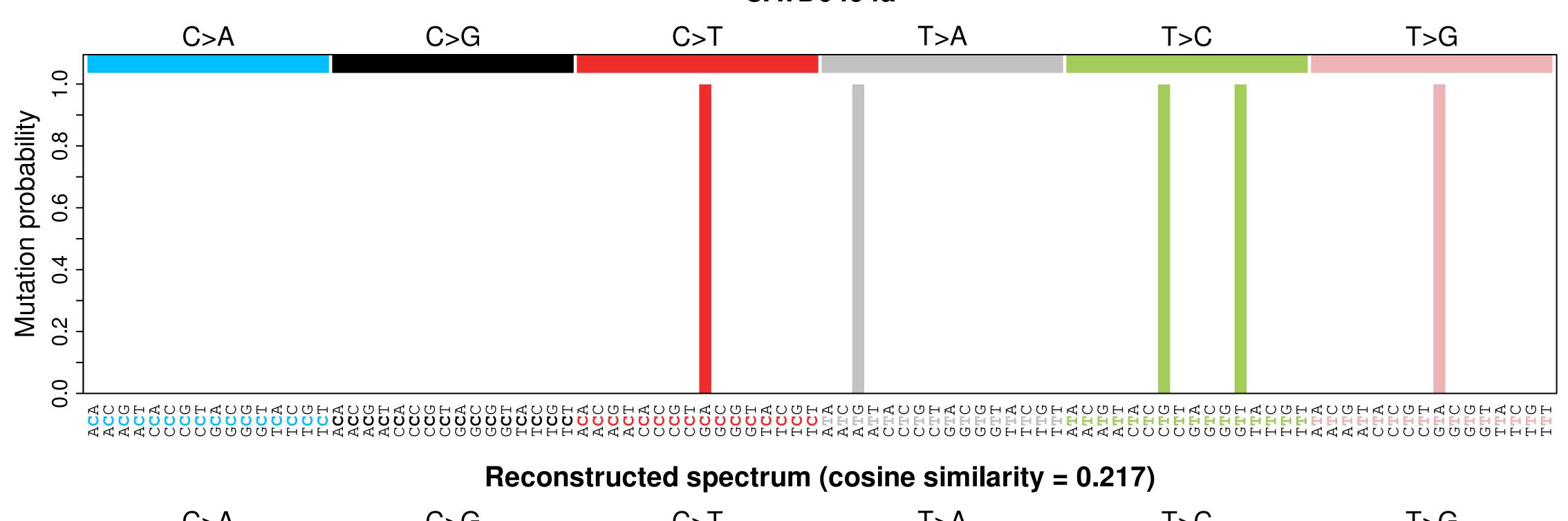
Reconstructed spectrum (cosine similarity = 0.461)

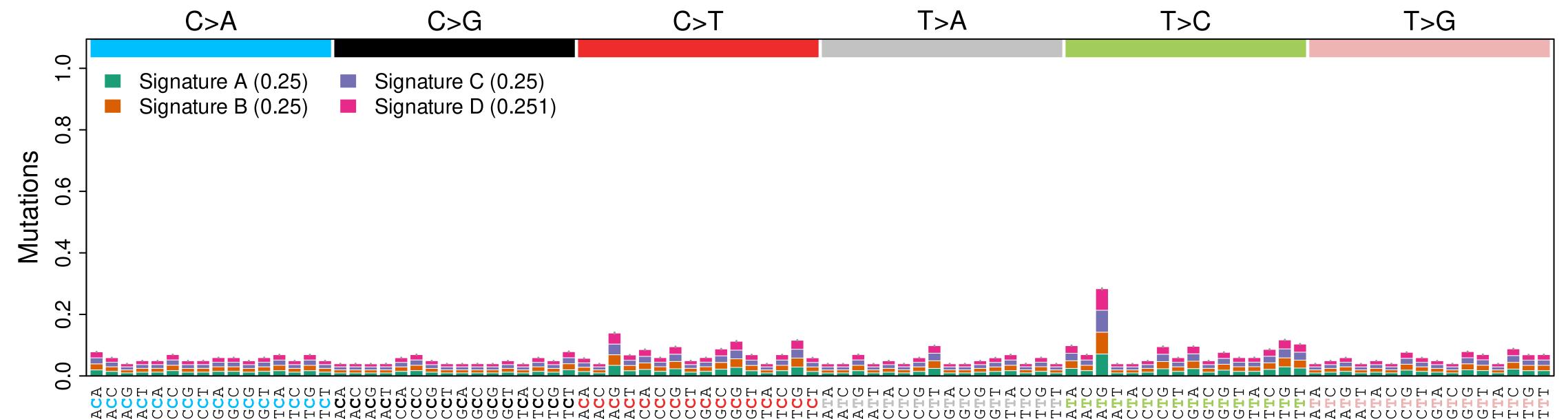




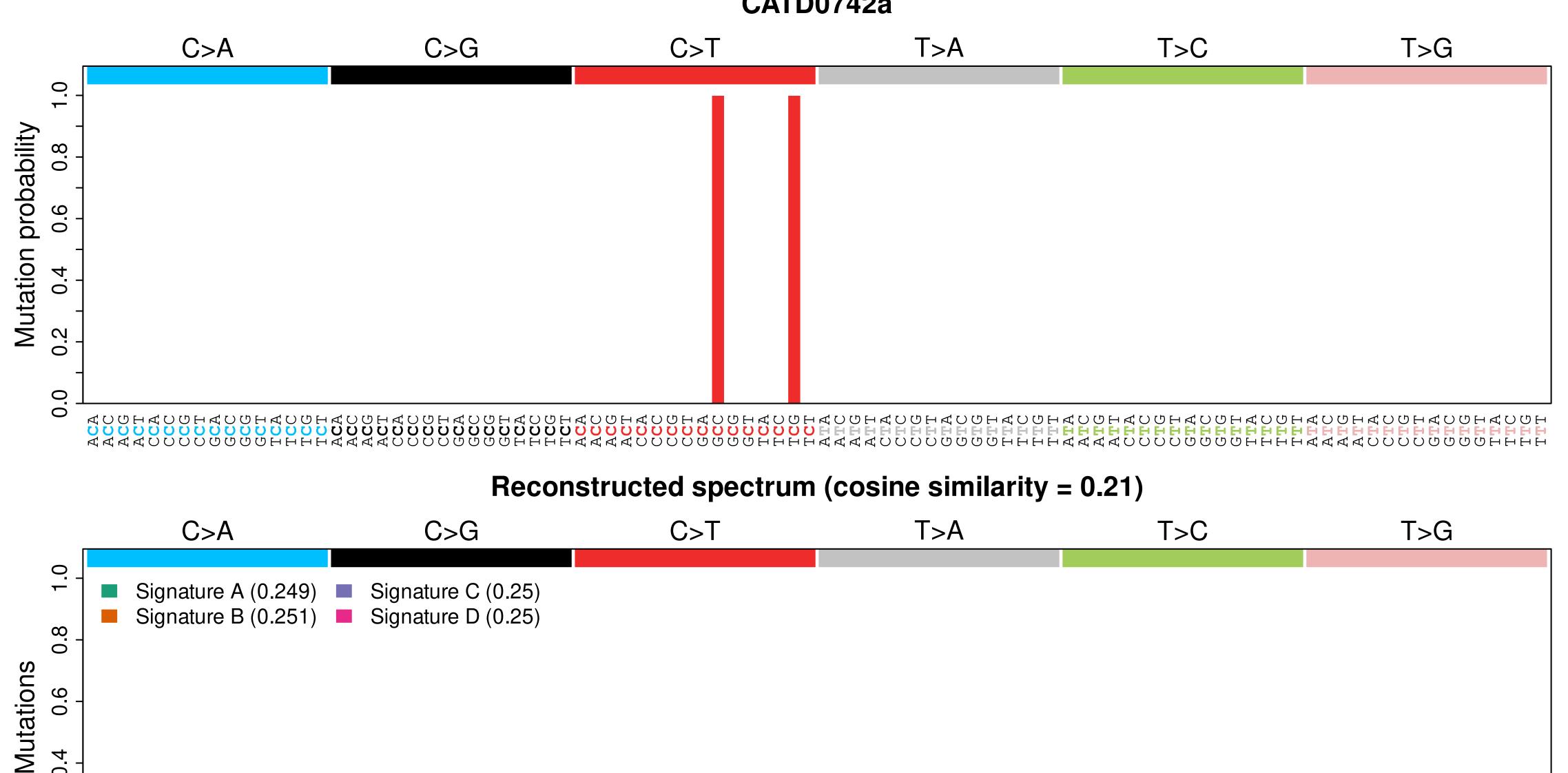


CATD0494a



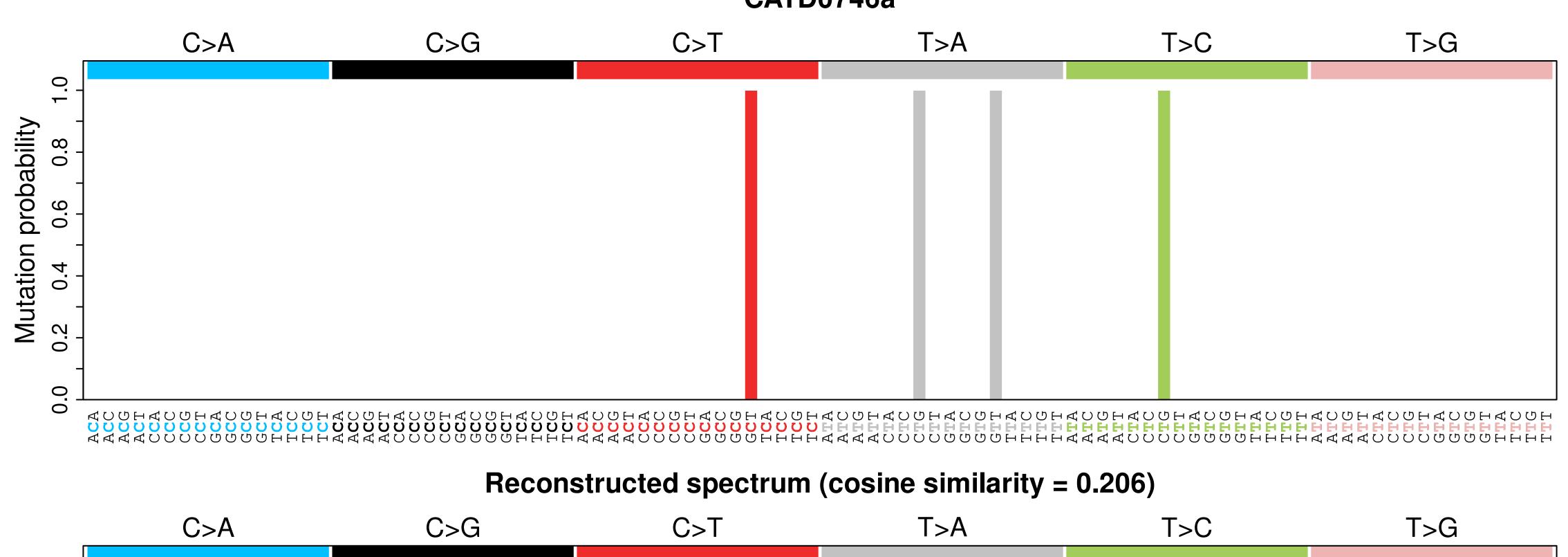


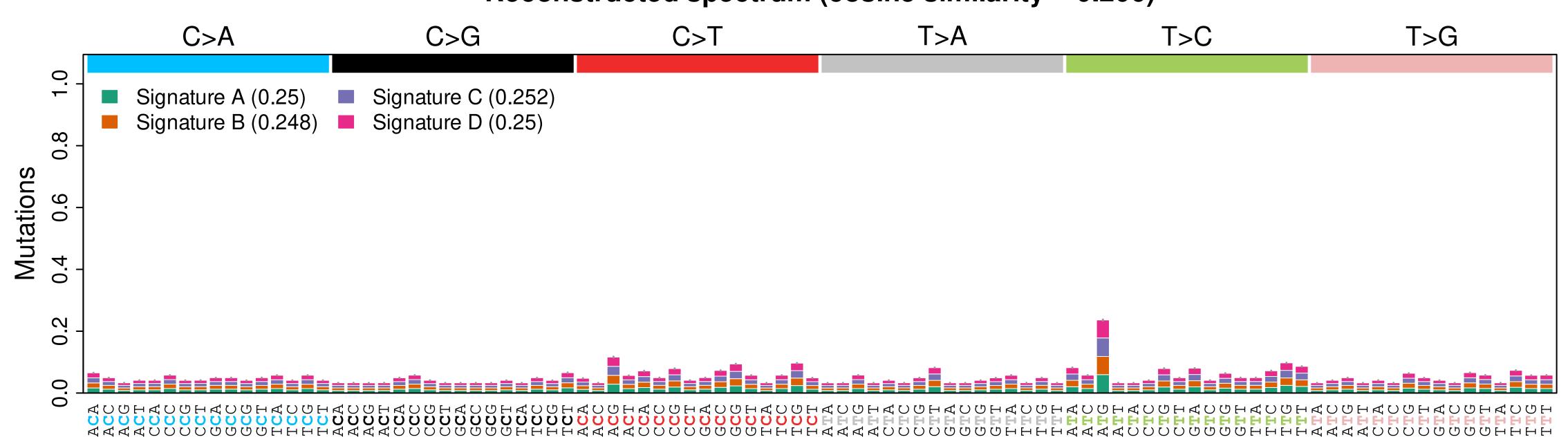




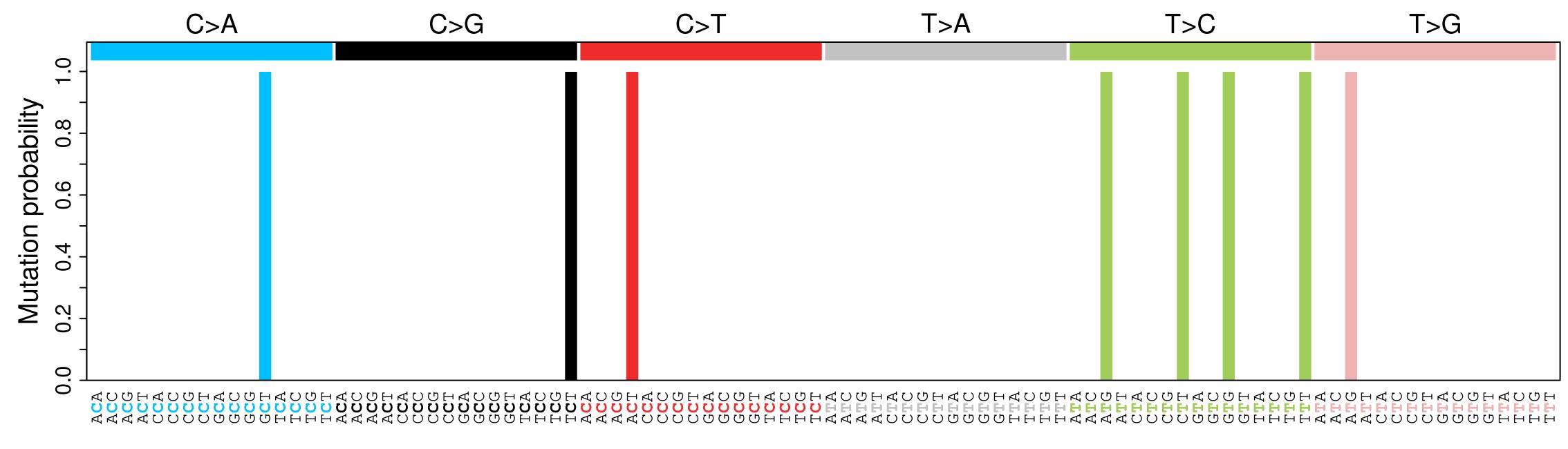
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CATD0746a

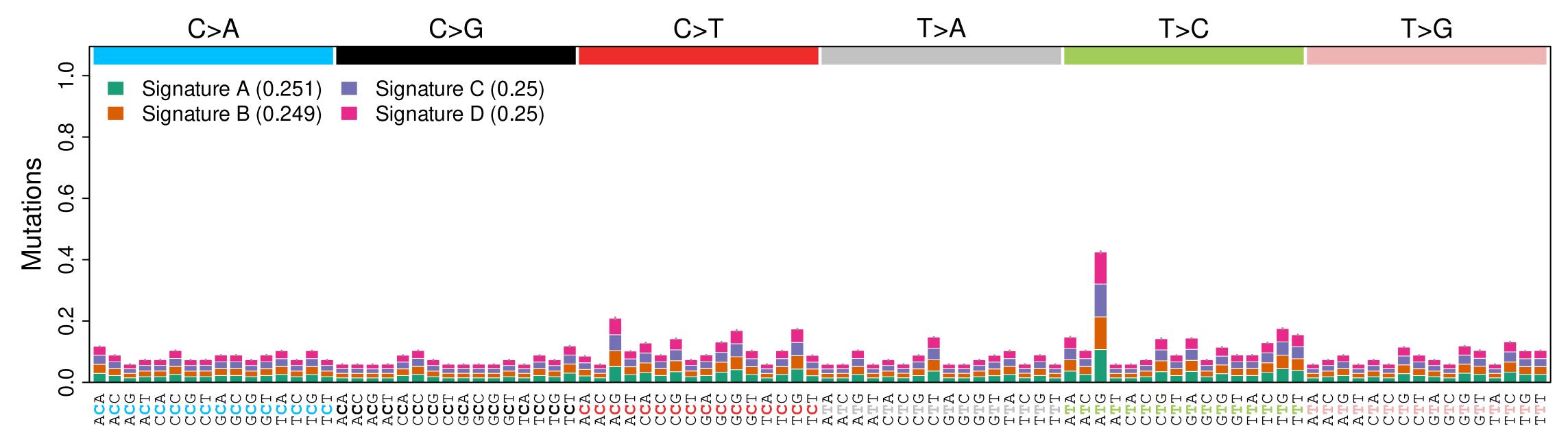




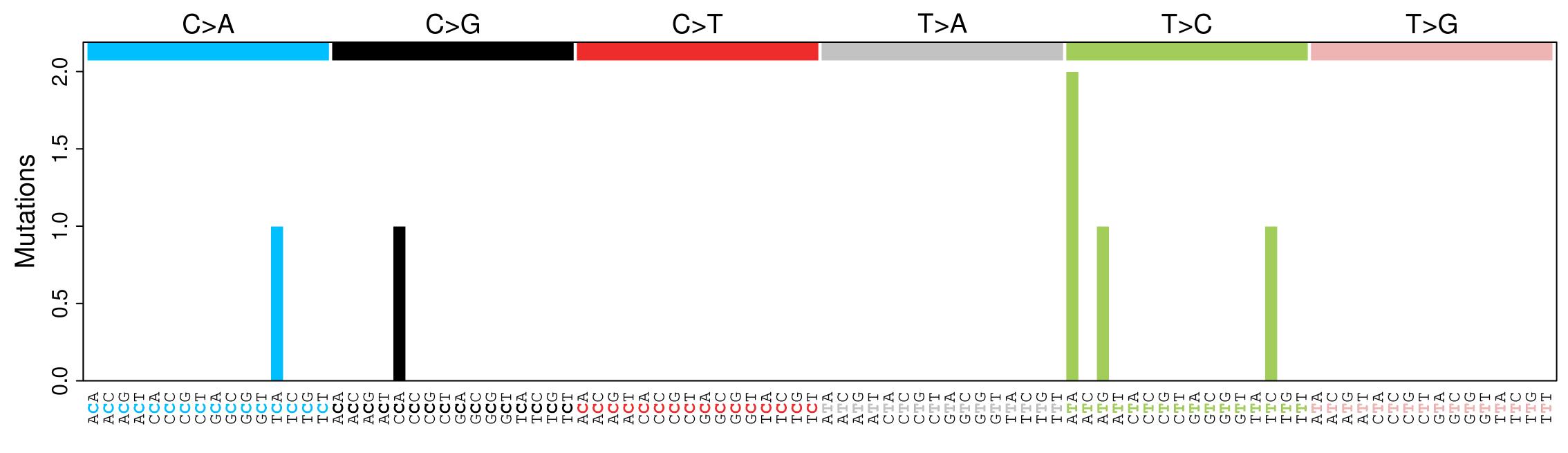
CATD0745a



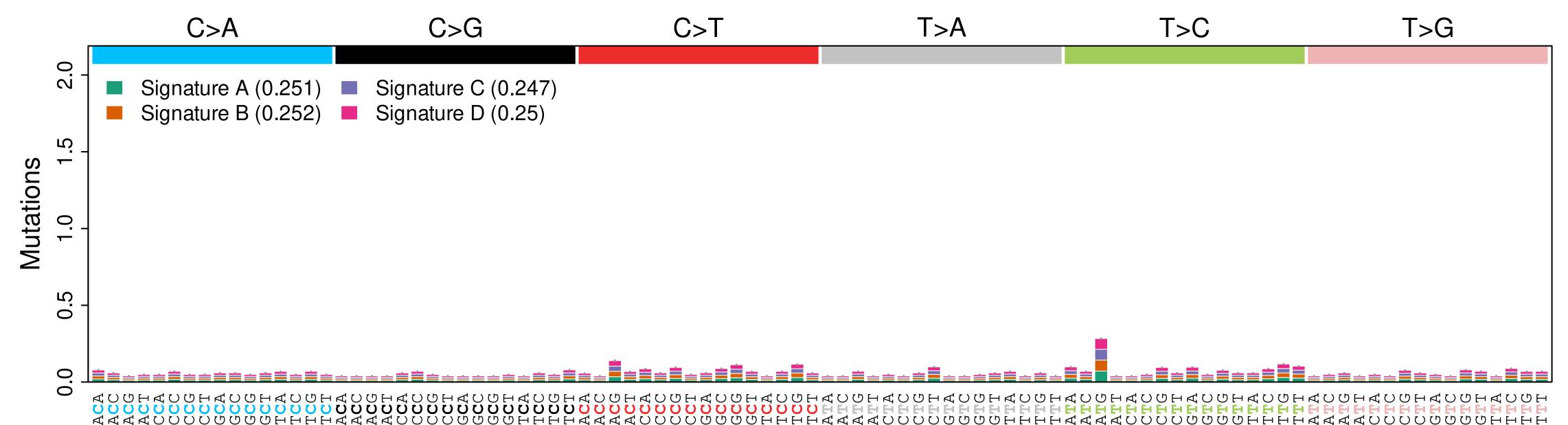
Reconstructed spectrum (cosine similarity = 0.407)



CATD0475a (6 mutations)



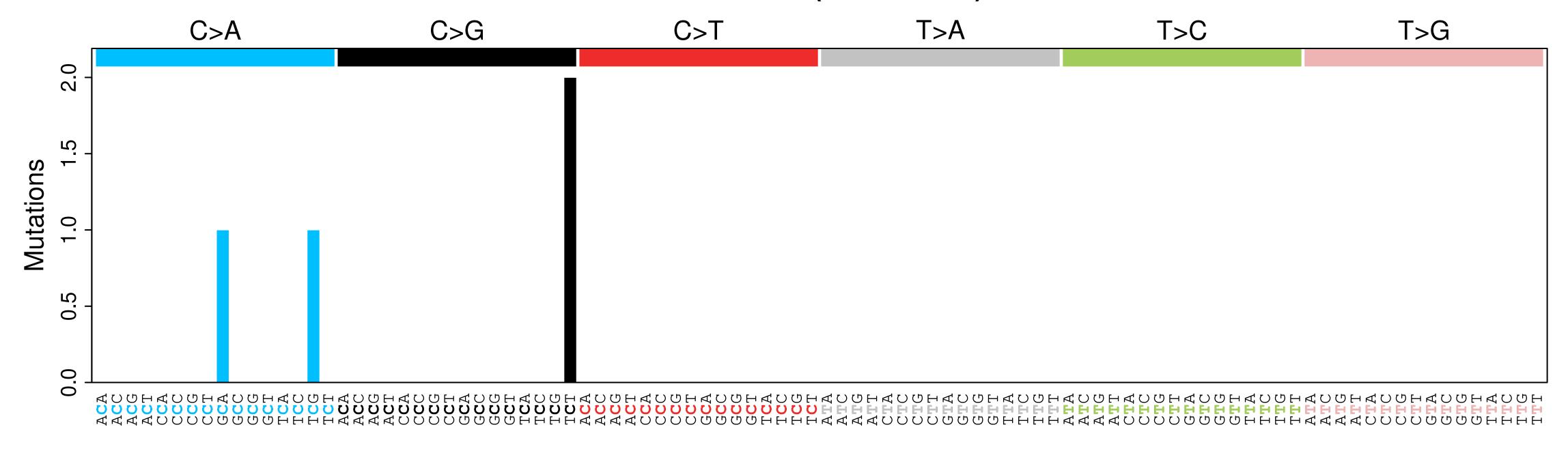
Reconstructed spectrum (cosine similarity = 0.359)



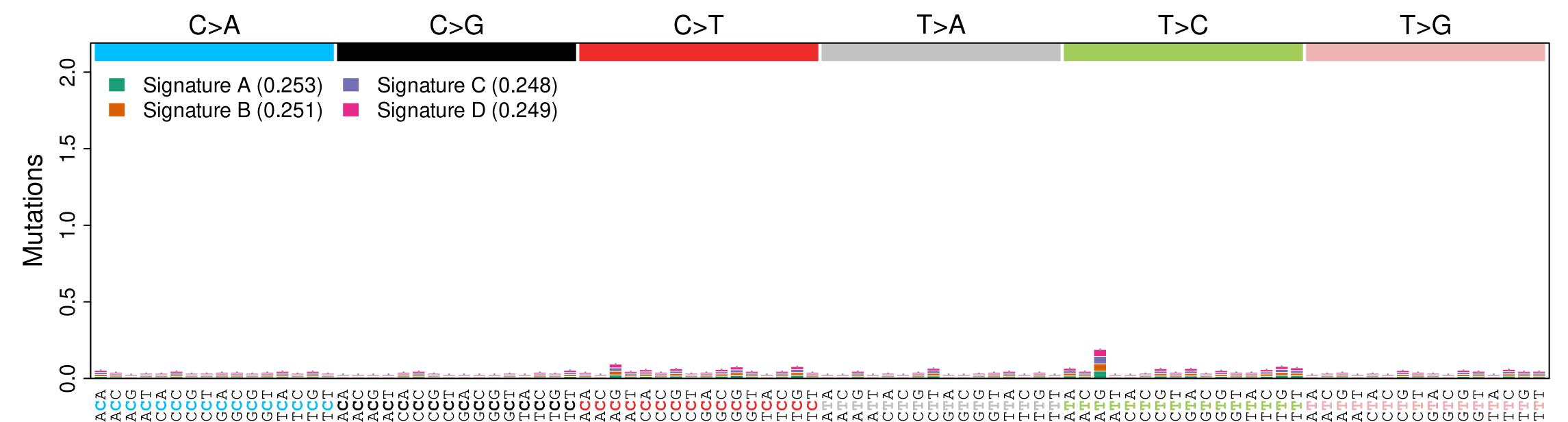
CATD0503a (3 mutations) T>G C>A C>G C>T T>A T>C 2.0 5 Mutations 0.5 0.0 **Reconstructed spectrum (cosine similarity = 0.164)** T>C T>G C>A C>G T>A C>T 2.0 Signature A (0.251) Signature C (0.248) Signature B (0.249) Signature D (0.252) 5 Mutations 5 0

CATD0743a (5 mutations) T>G C>A C>G C>T T>A T>C 2.0 5 Mutations 0.5 0.0 Reconstructed spectrum (cosine similarity = 0.198) T>C T>G C>A C>G T>A C>T 2.0 Signature A (0.25) Signature C (0.25) Signature B (0.248) Signature D (0.252) 5 Mutations 2 0

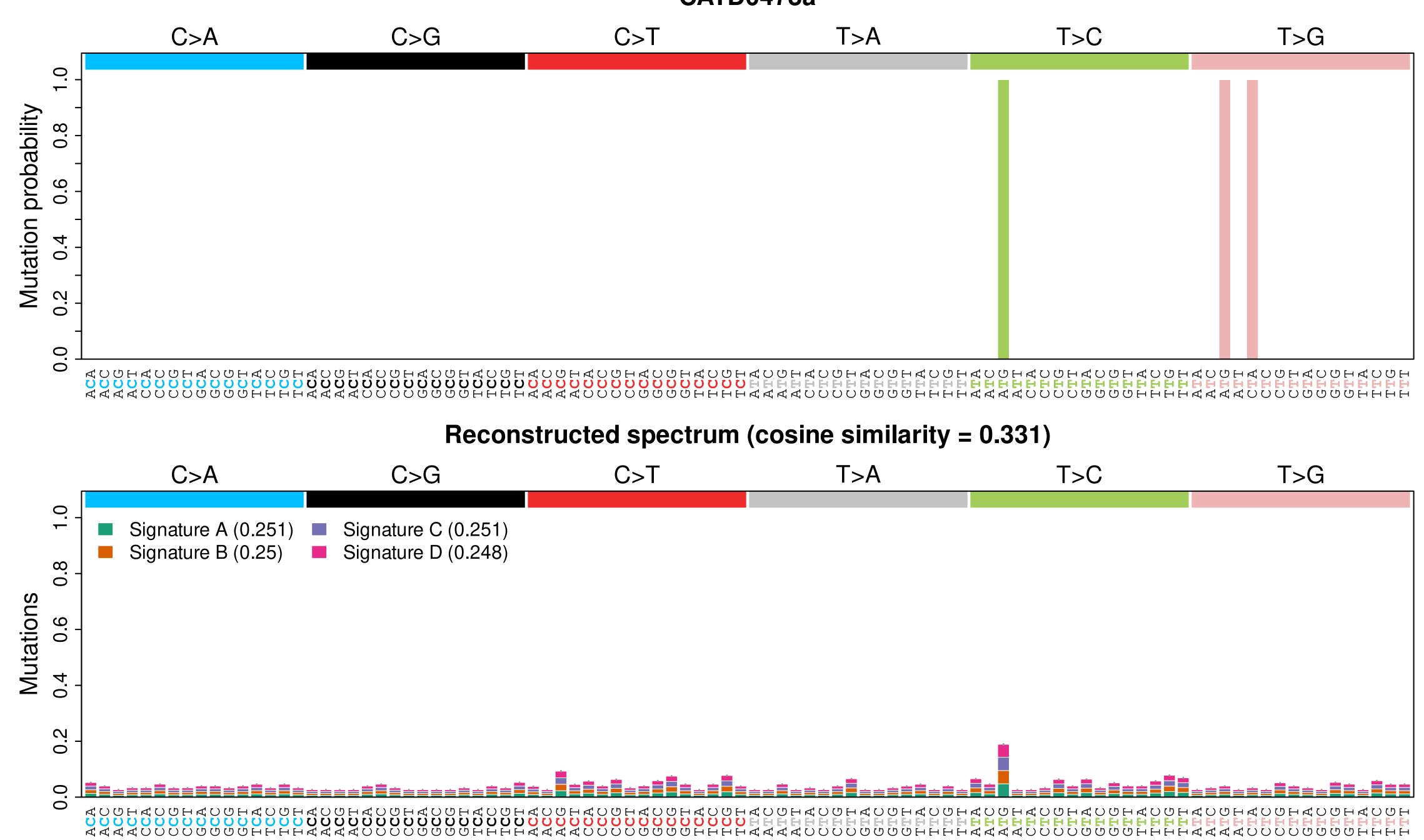
CATD0737a (4 mutations)



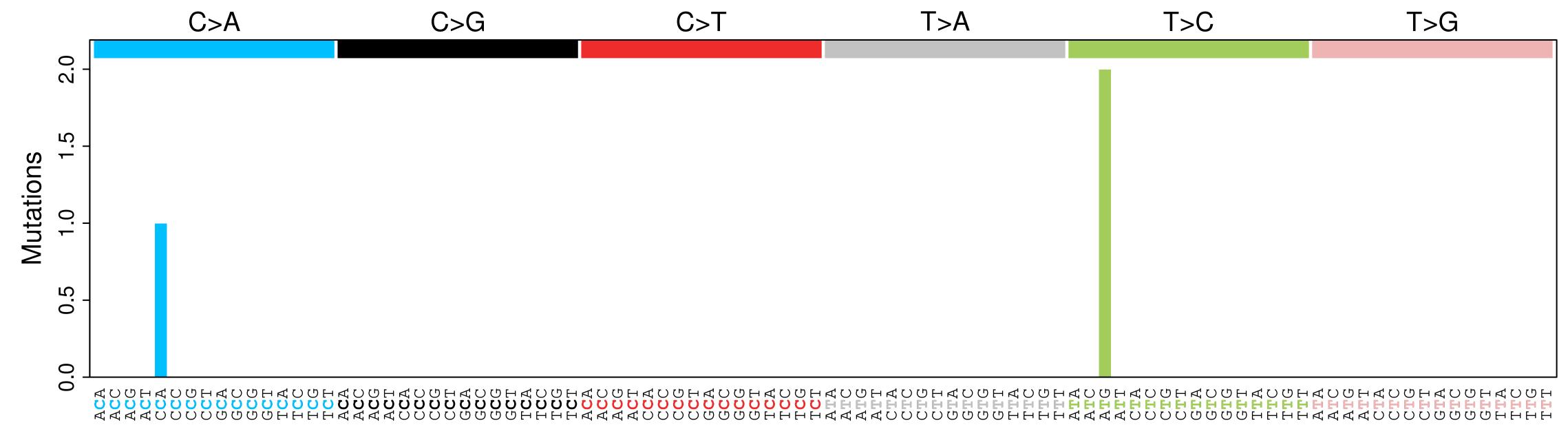
Reconstructed spectrum (cosine similarity = 0.171)



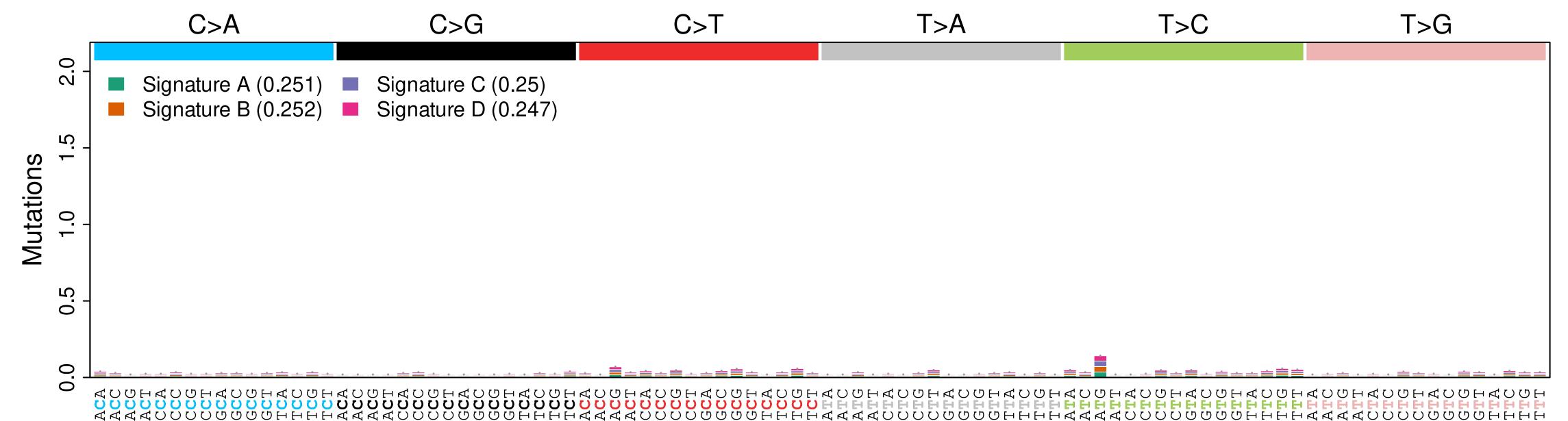




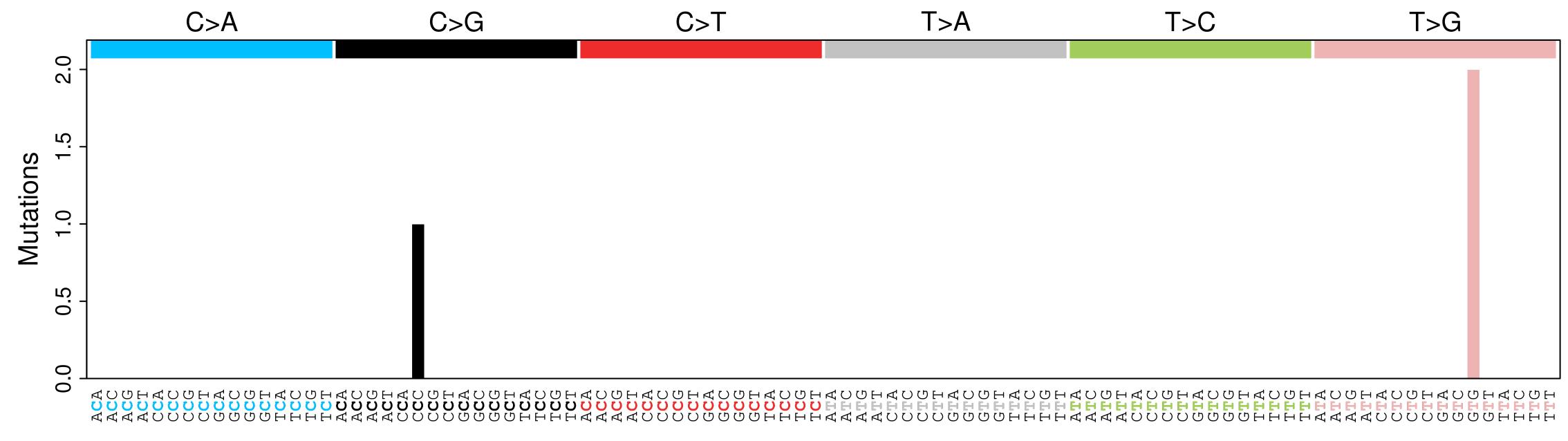
CATD0488a (3 mutations)



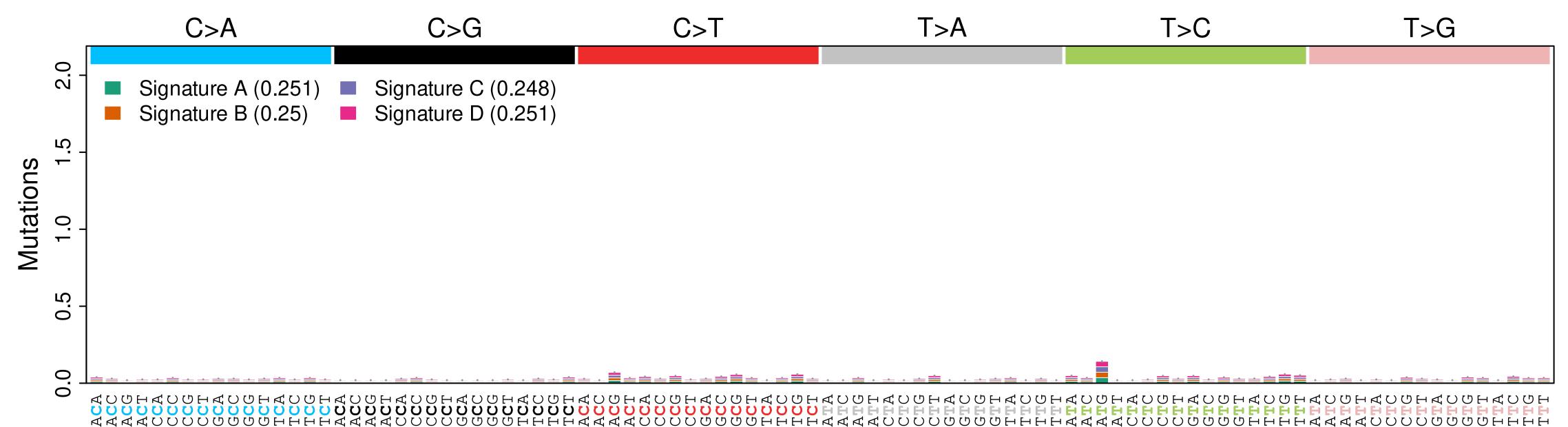
Reconstructed spectrum (cosine similarity = 0.403)



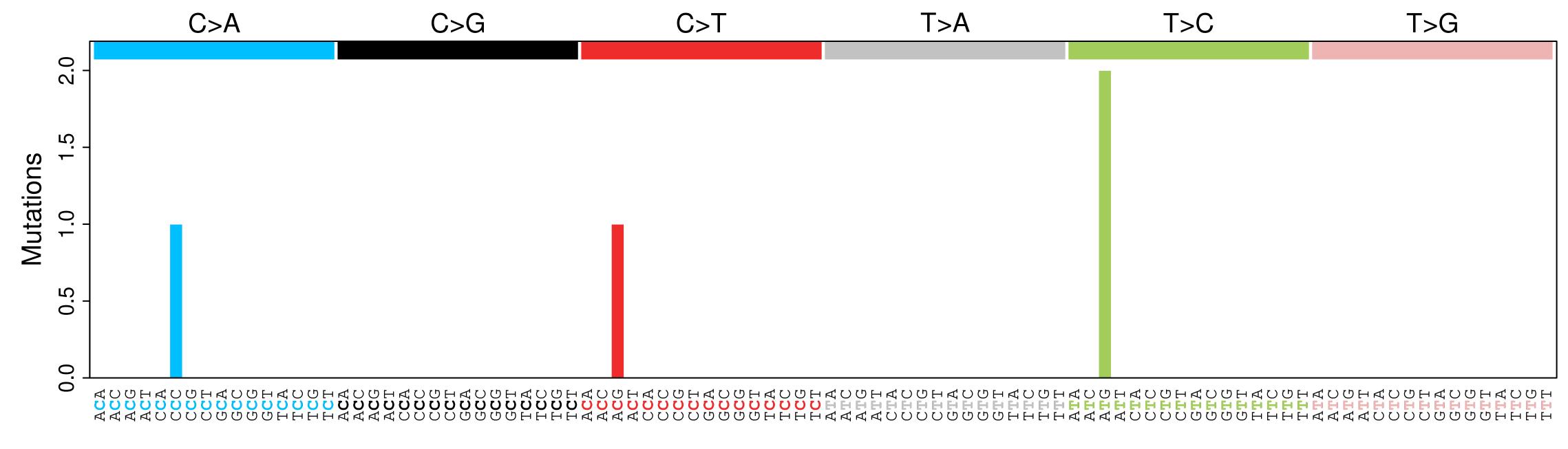
CATD0697a (3 mutations) C>A C>G C>T T>A



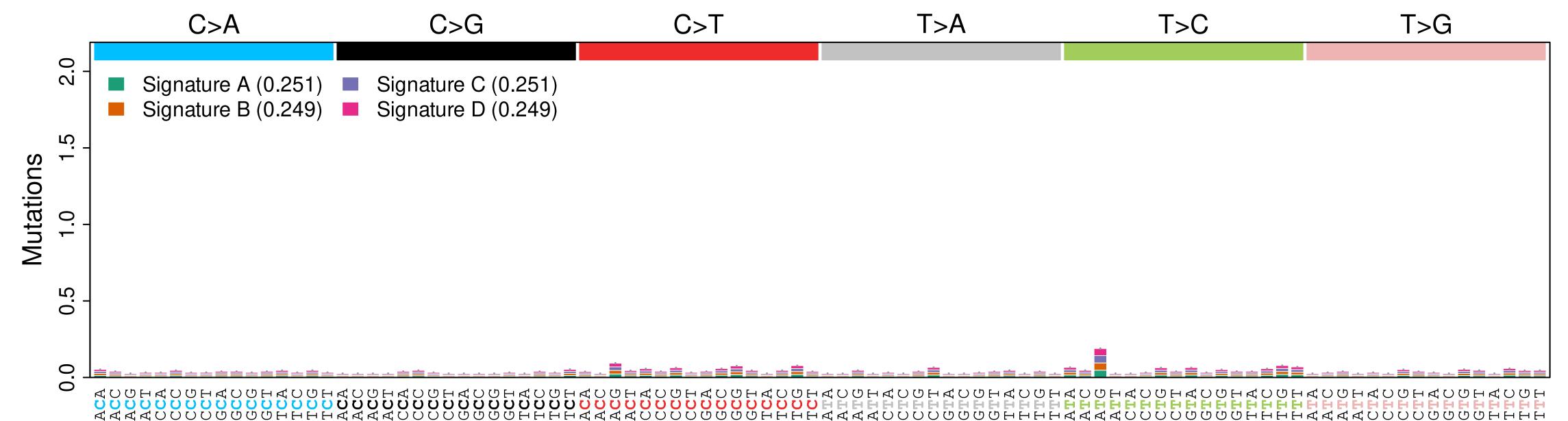
Reconstructed spectrum (cosine similarity = 0.149)



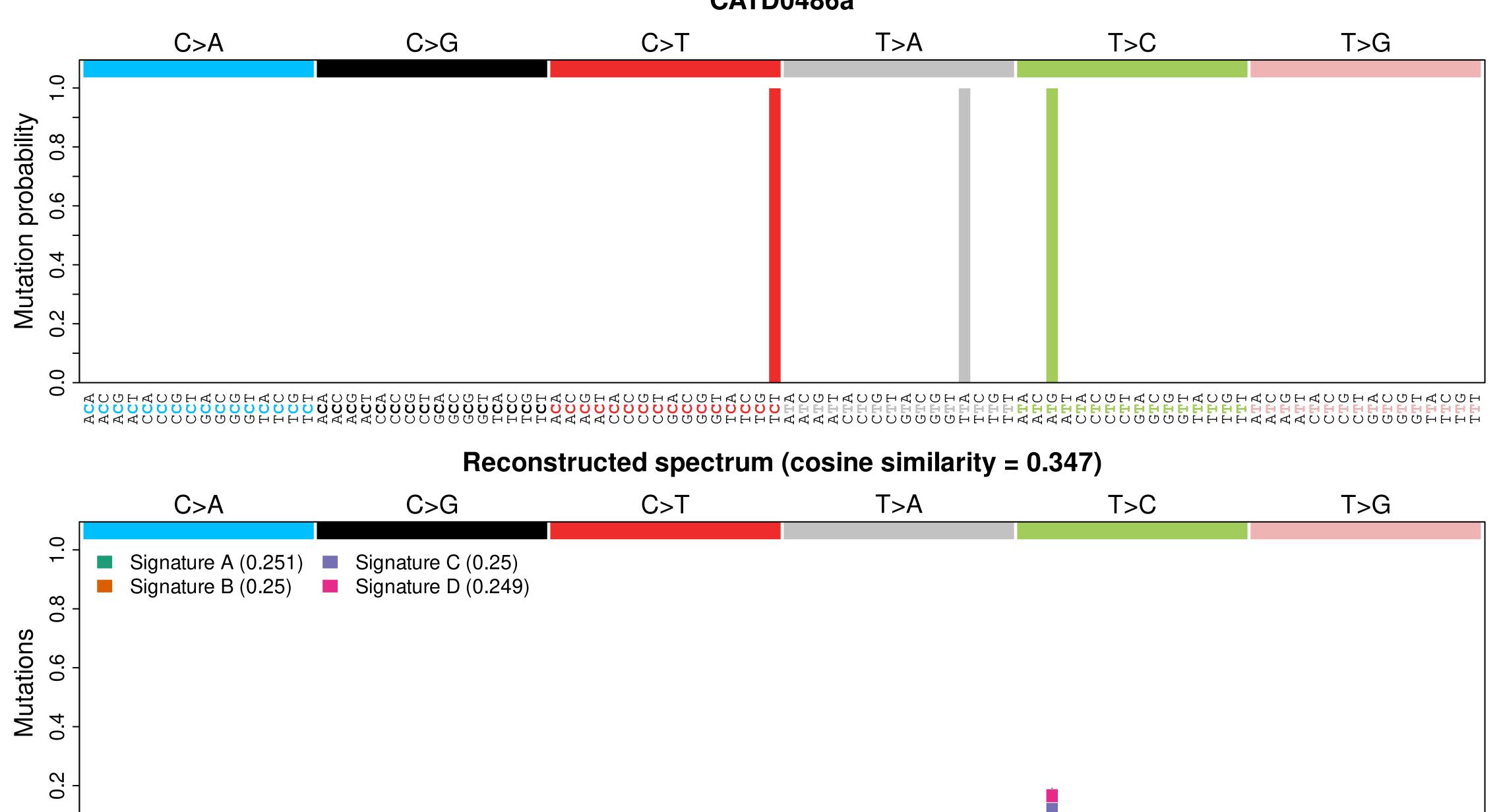
CATD0485a (4 mutations)



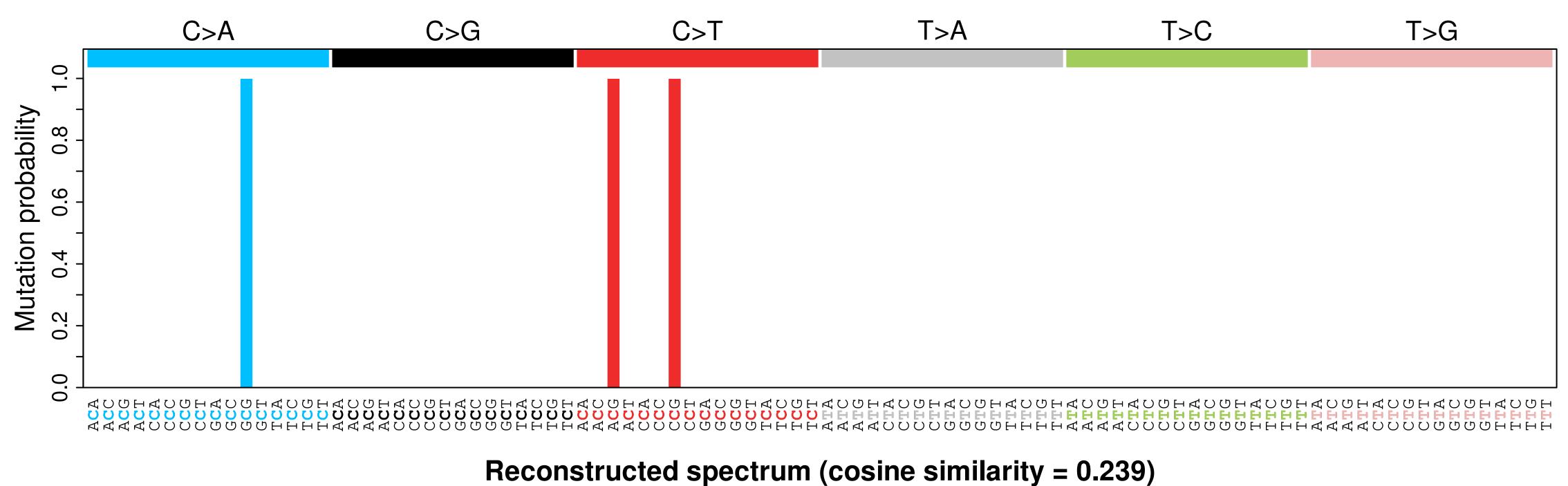
Reconstructed spectrum (cosine similarity = 0.463)

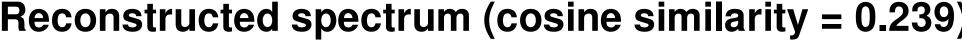


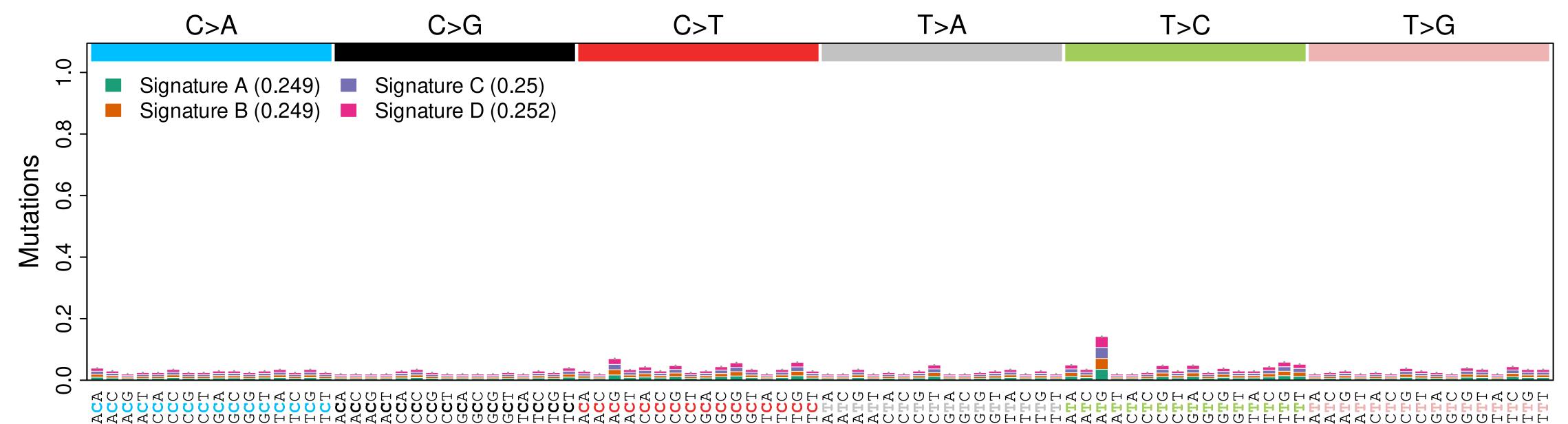






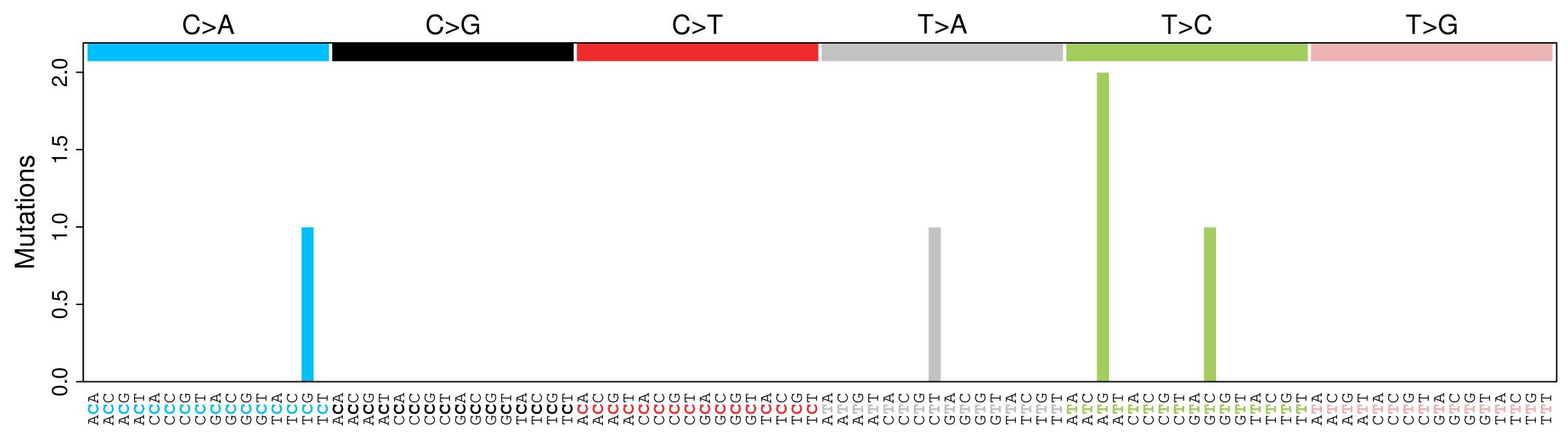




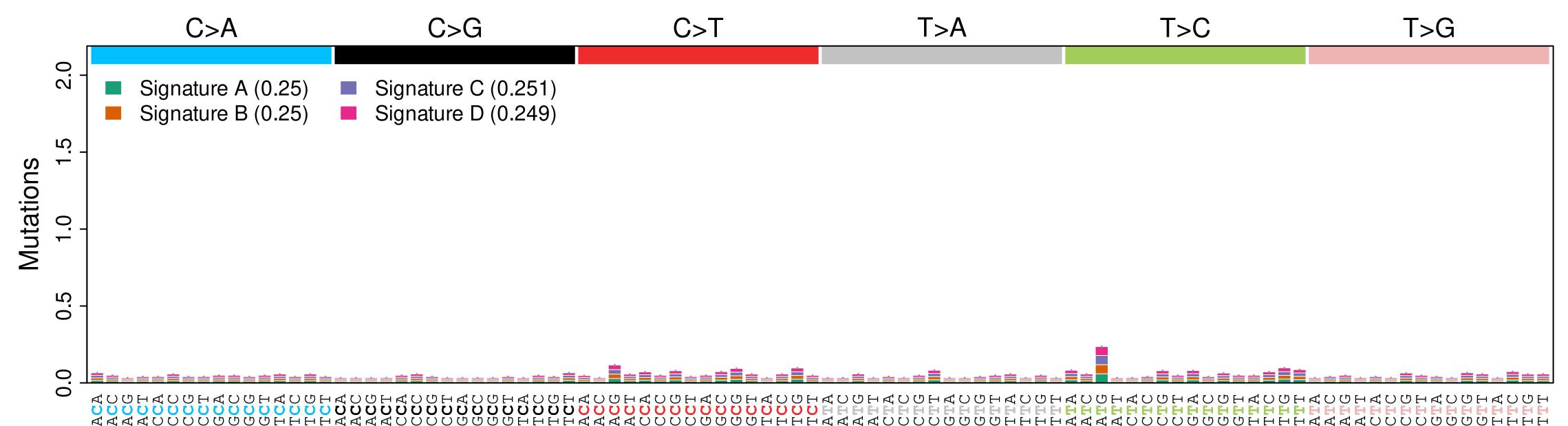


CATD0744a (5 mutations) T>G C>A C>G C>T T>A T>C 2.0 5 Mutations 0.5 0.0 **Reconstructed spectrum (cosine similarity = 0.414)** T>C T>G C>A C>G T>A C>T 2.0 Signature A (0.251) Signature C (0.249) Signature B (0.251) Signature D (0.248) 5 Mutations 2 0

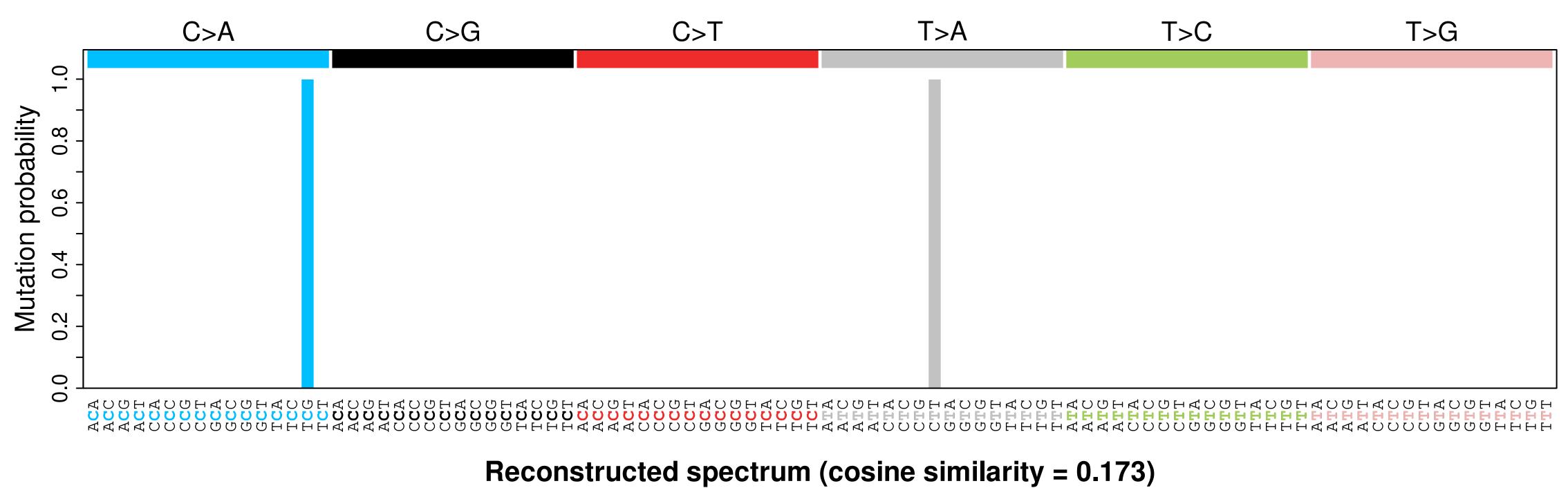
CATD0471a (5 mutations) C>A C>G C>T T>A

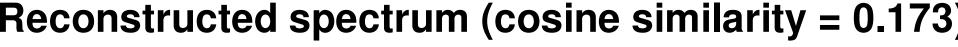


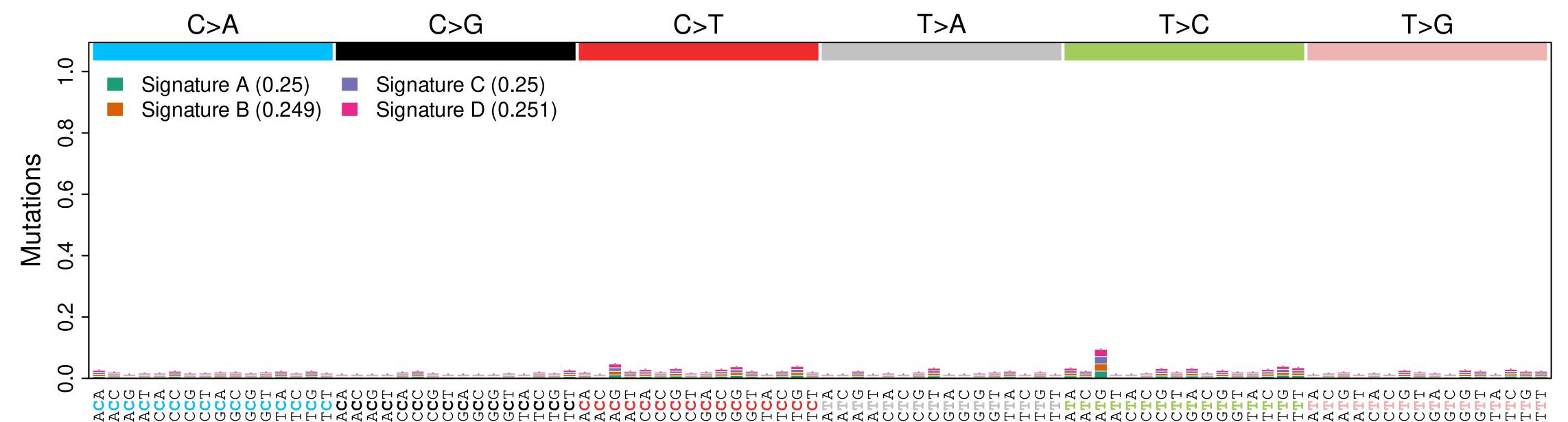
Reconstructed spectrum (cosine similarity = 0.433)



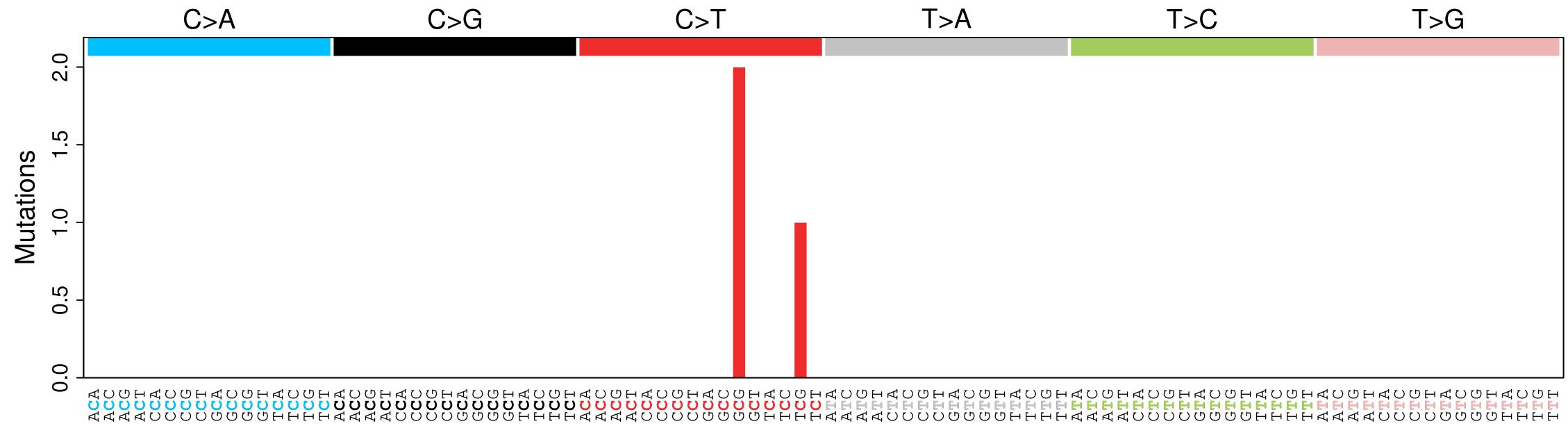




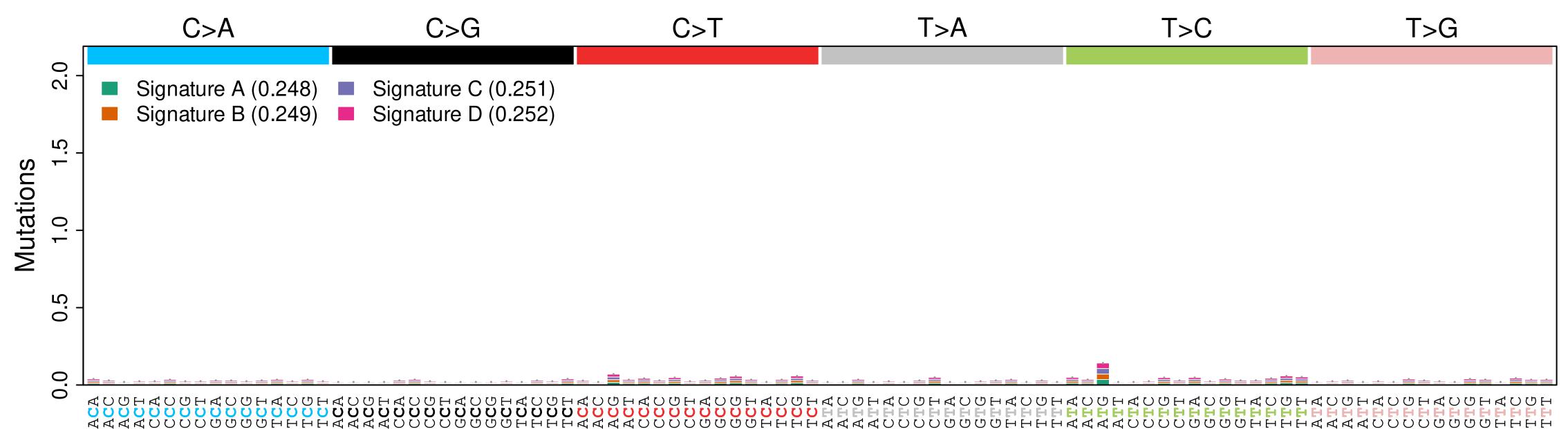




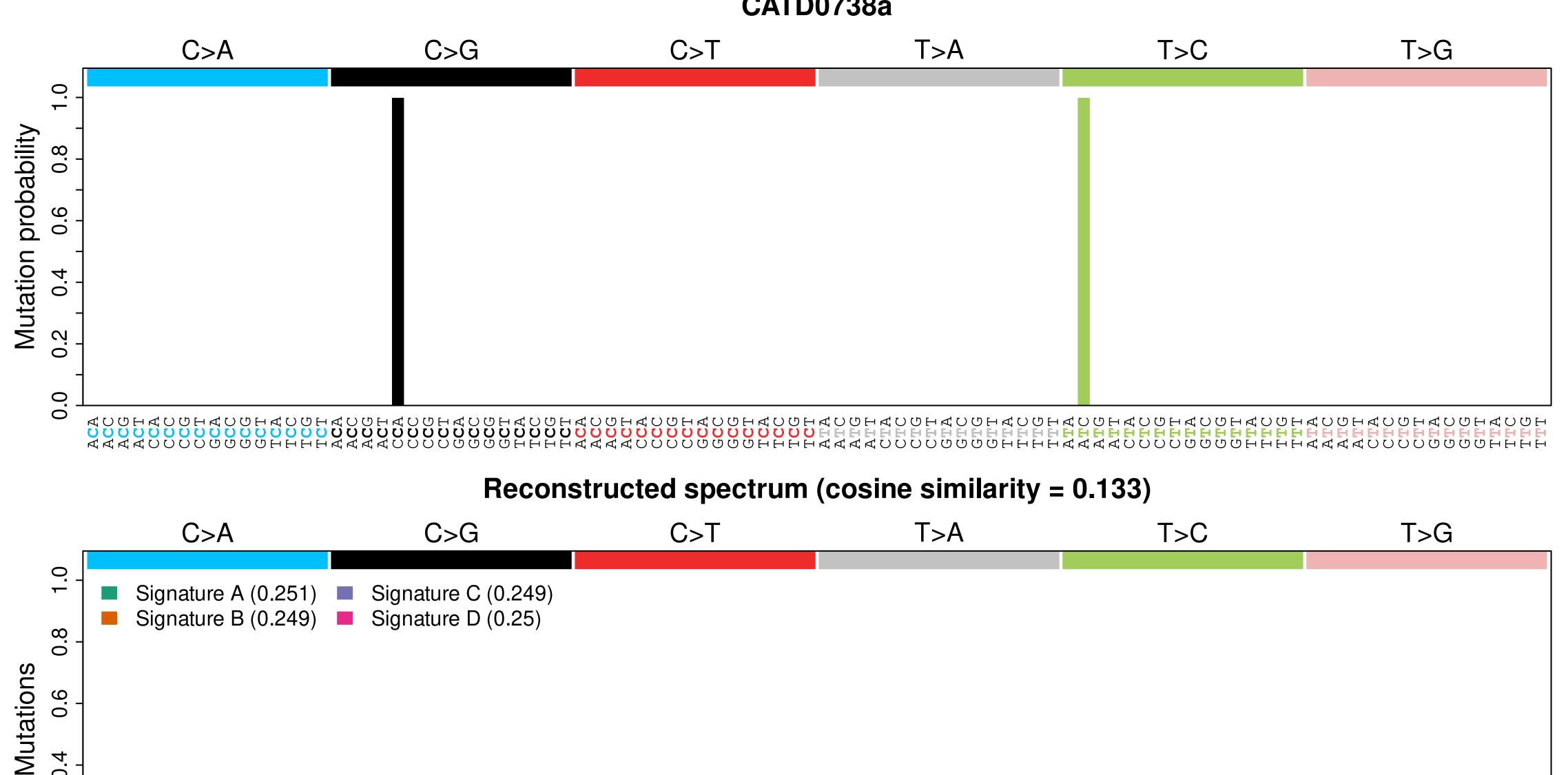
CATD0739a (3 mutations) C>A C>G C>T T>A



Reconstructed spectrum (cosine similarity = 0.223)

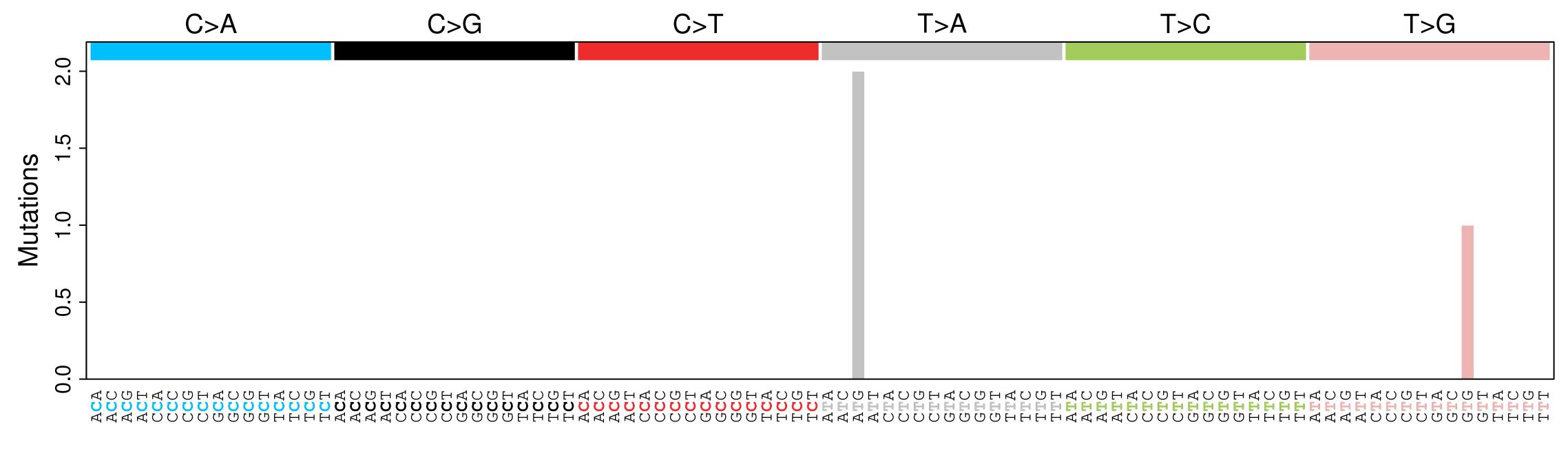




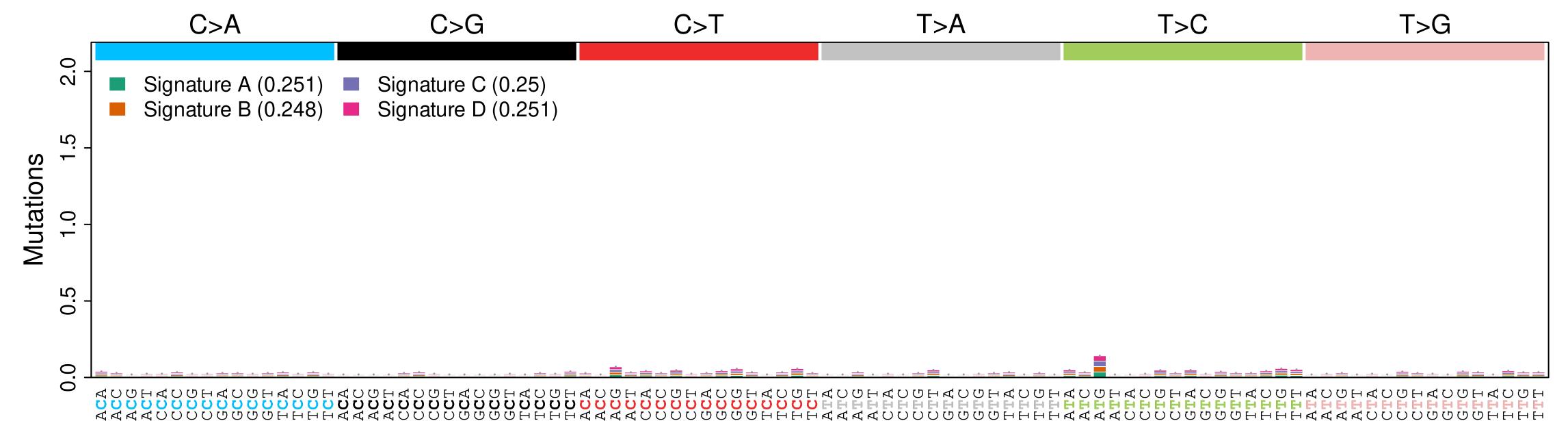


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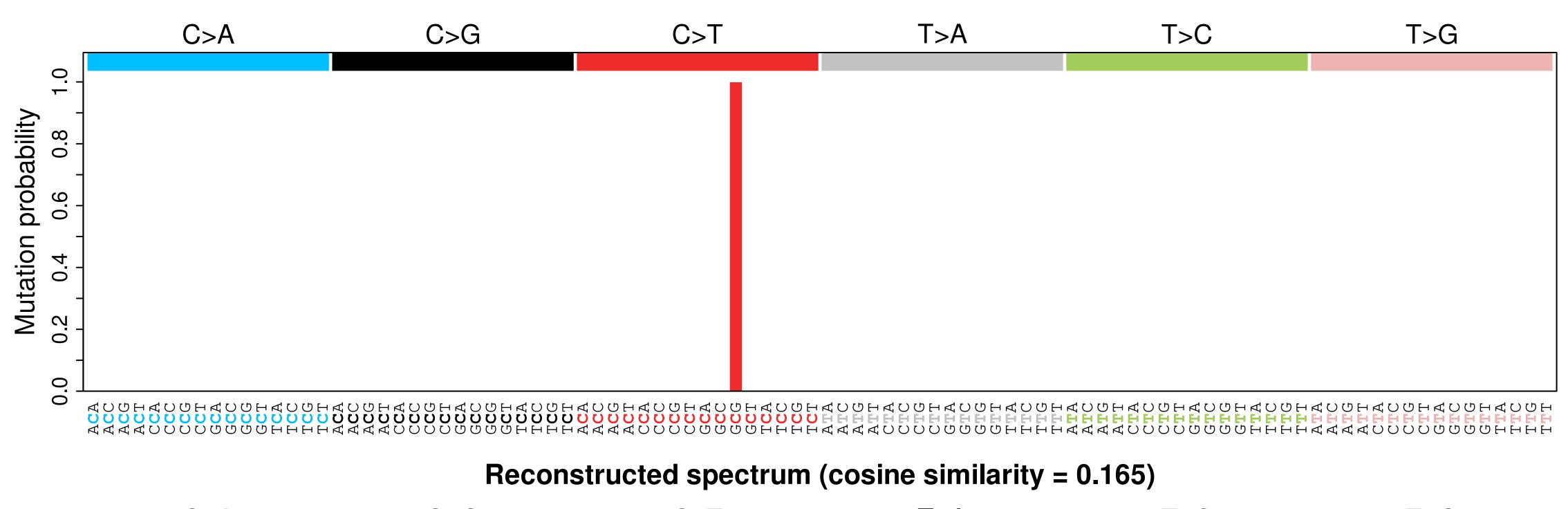
CATD0692a (3 mutations)

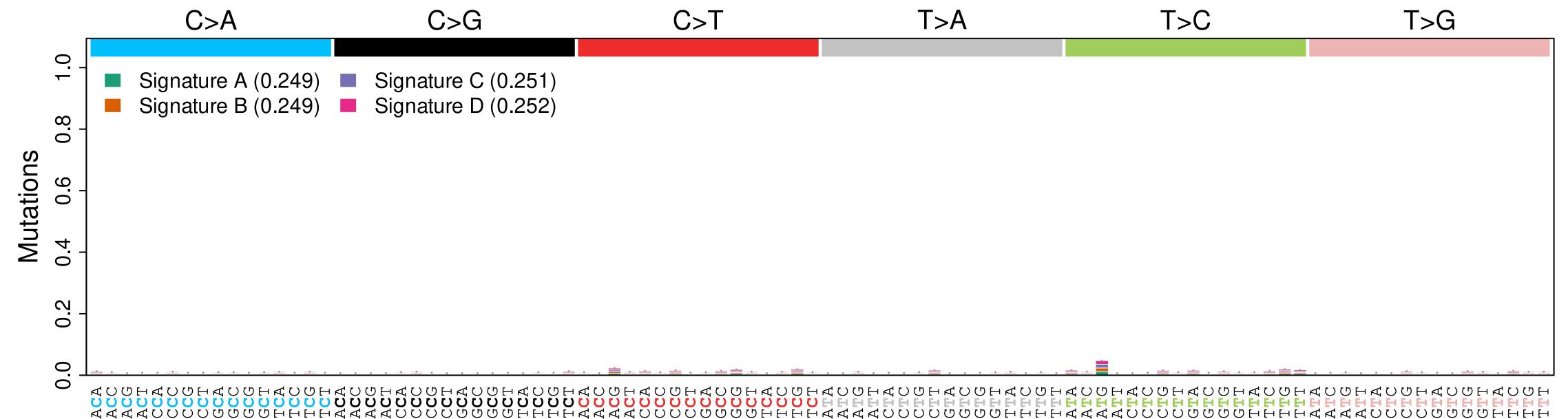


Reconstructed spectrum (cosine similarity = 0.143)

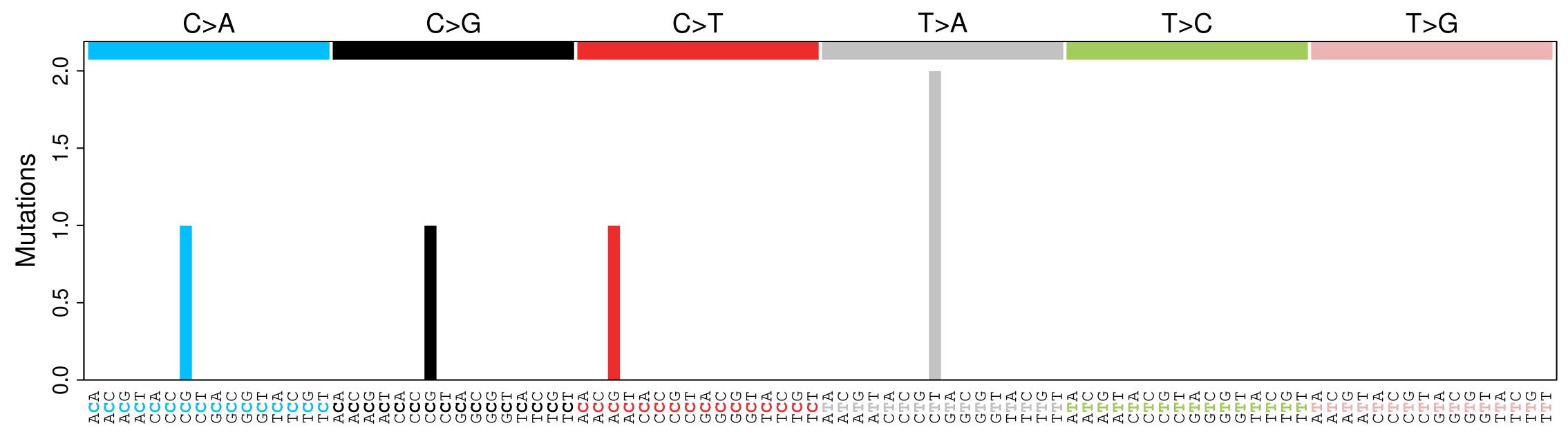




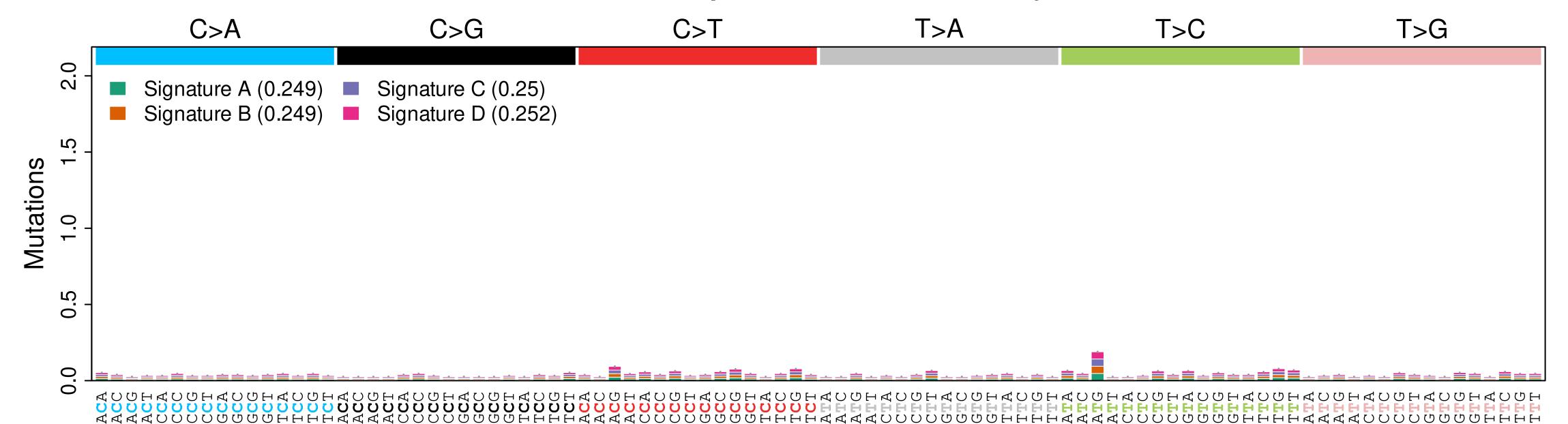




CATD0498a (5 mutations)



Reconstructed spectrum (cosine similarity = 0.24)



CATD0699a (2 mutations) T>G C>A C>G C>T T>A T>C 2.0 Mutations 0 **Reconstructed spectrum (cosine similarity = 0.086)** T>A T>C T>G C>A C>G C>T 2.0 Signature A (0.251) Signature C (0.249) Signature B (0.251) Signature D (0.249) 5 Mutations 5 0

0.0



