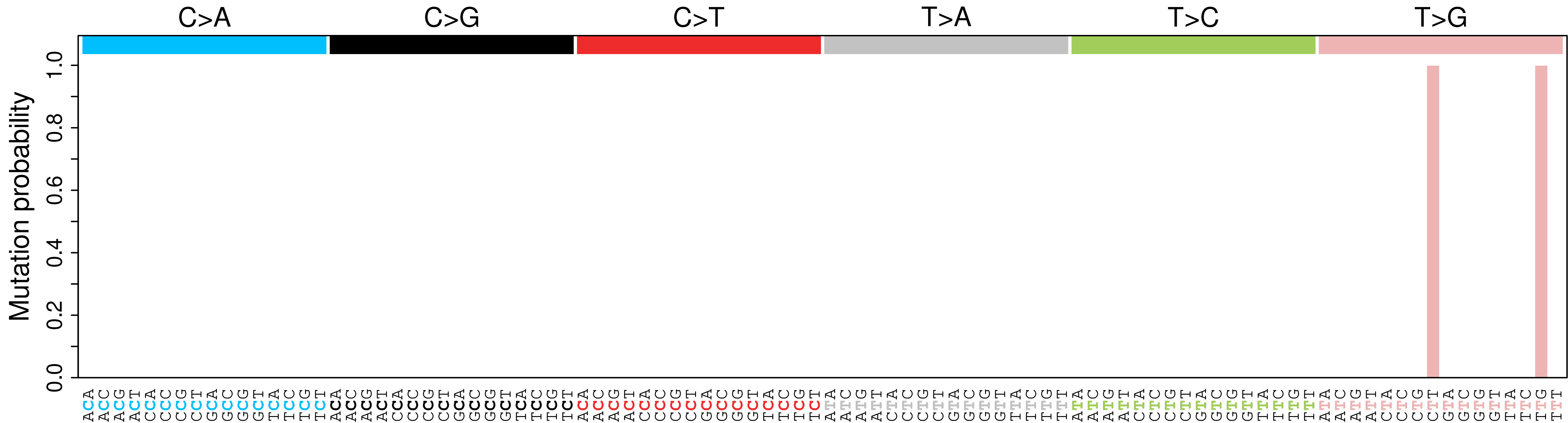**CATD231a**
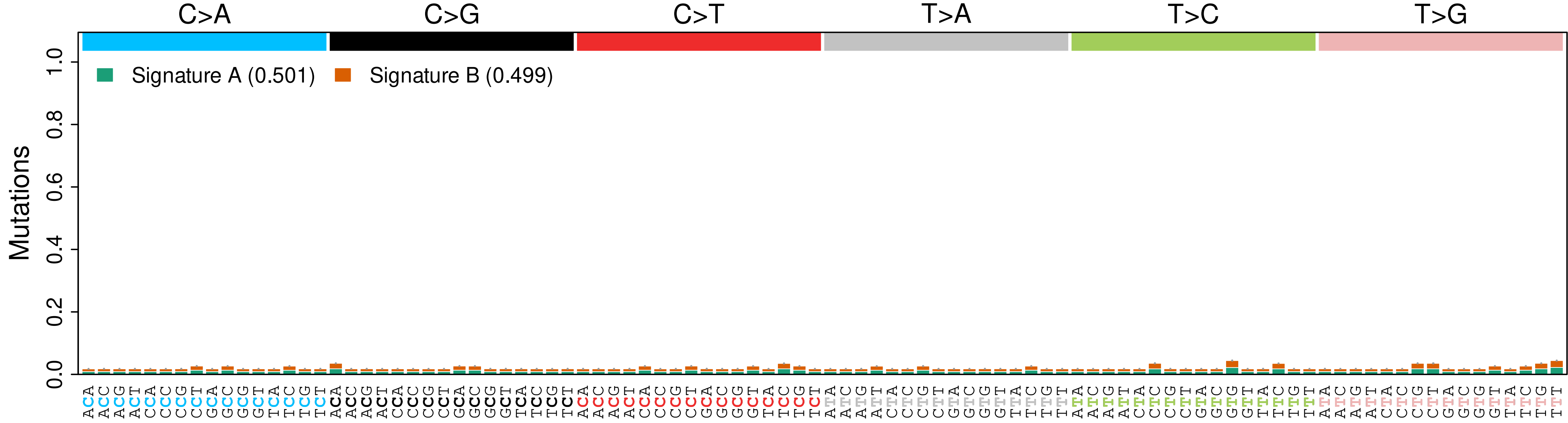
Reconstructed spectrum (cosine similarity = 0.125)

CATD0716a

Reconstructed spectrum (cosine similarity = 0.235)

Signature A (0.501)   Signature B (0.499)

CATD217a (5 mutations)

Reconstructed spectrum (cosine similarity = 0.297)
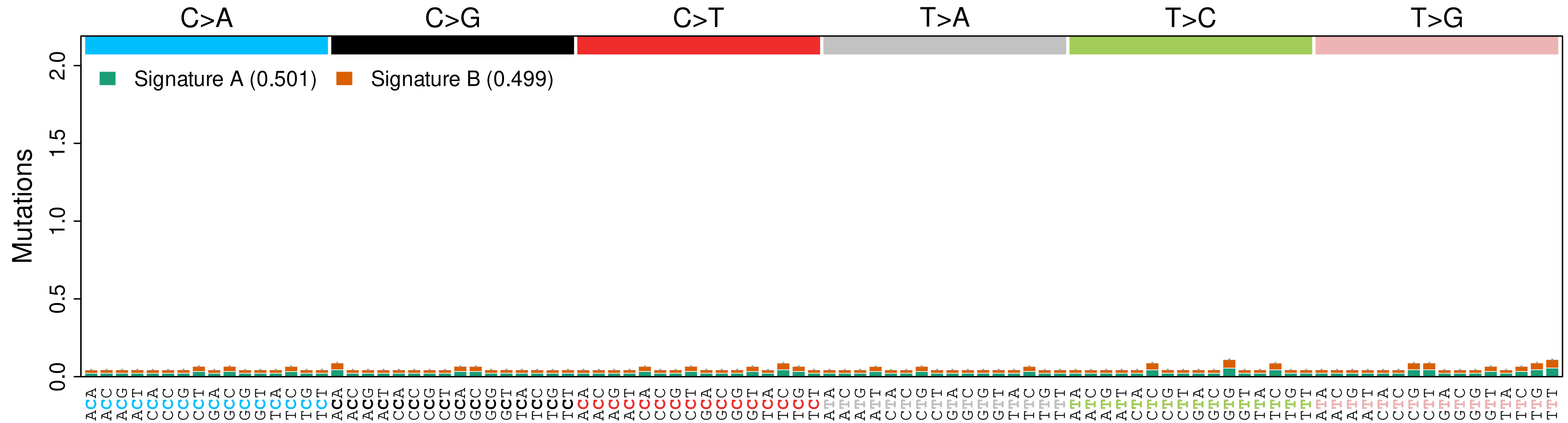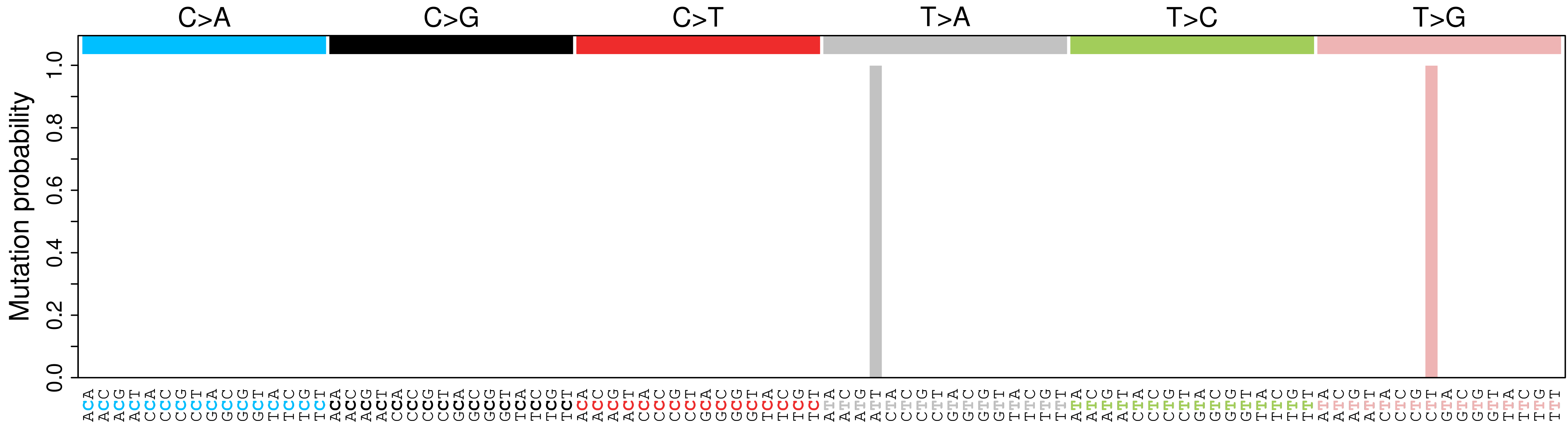
Signature A (0.501)   Signature B (0.499)
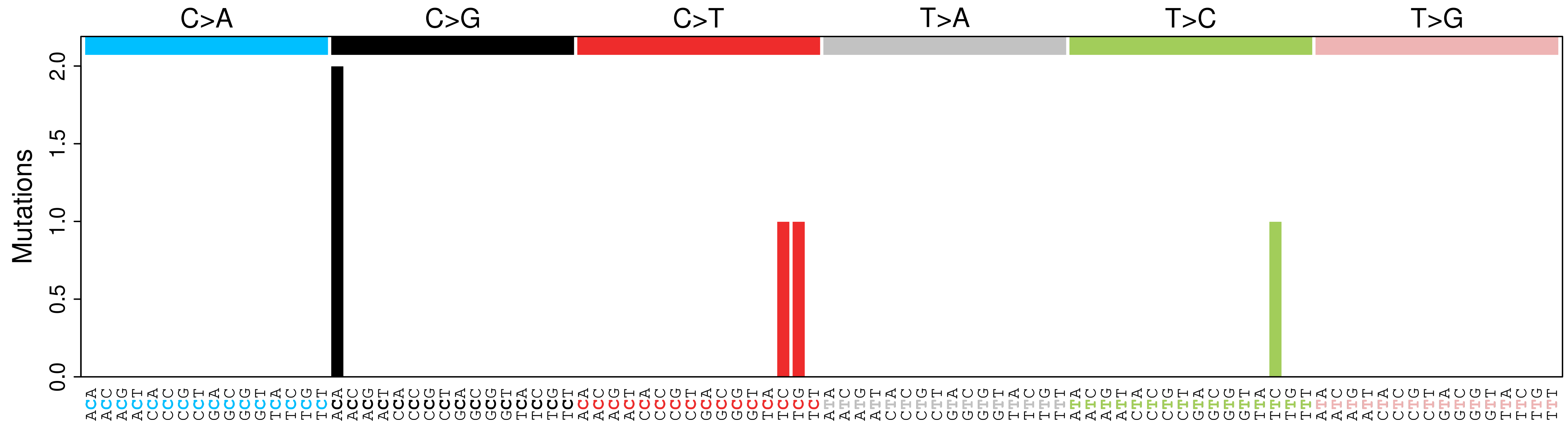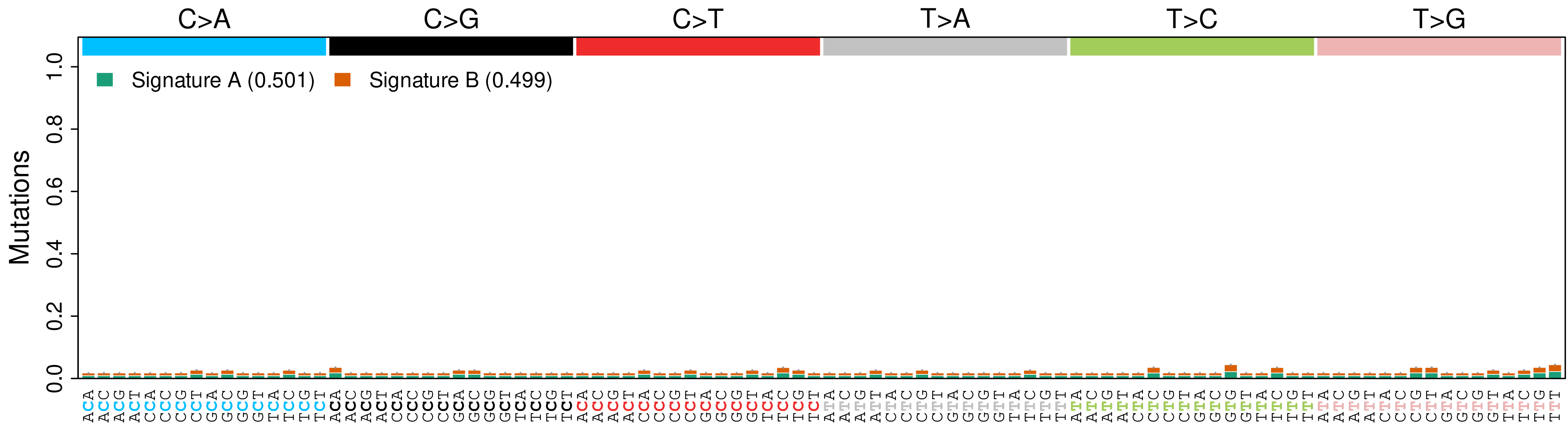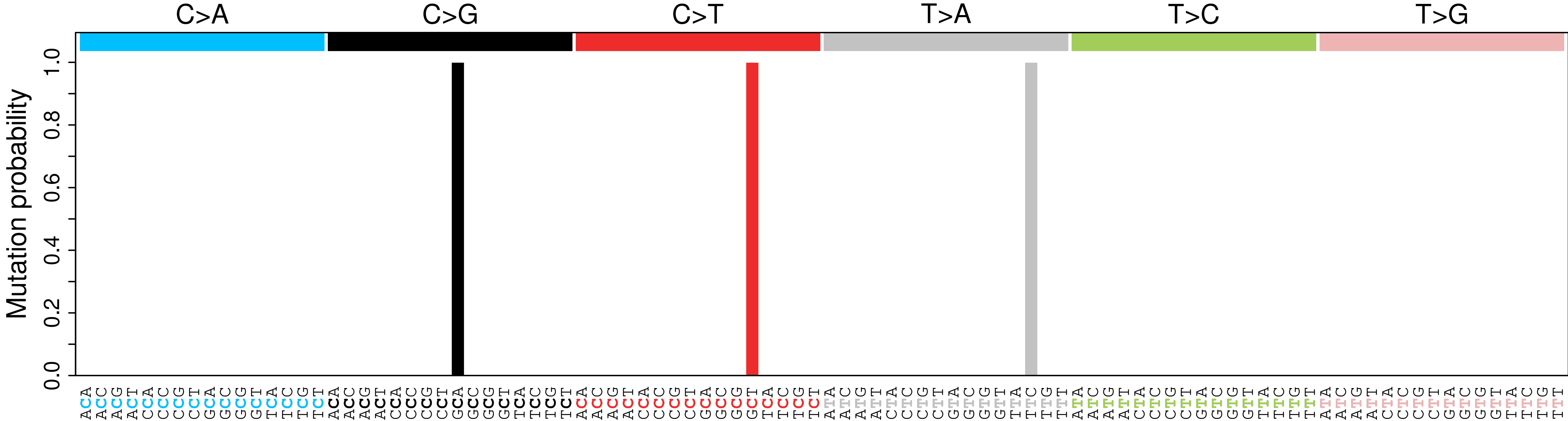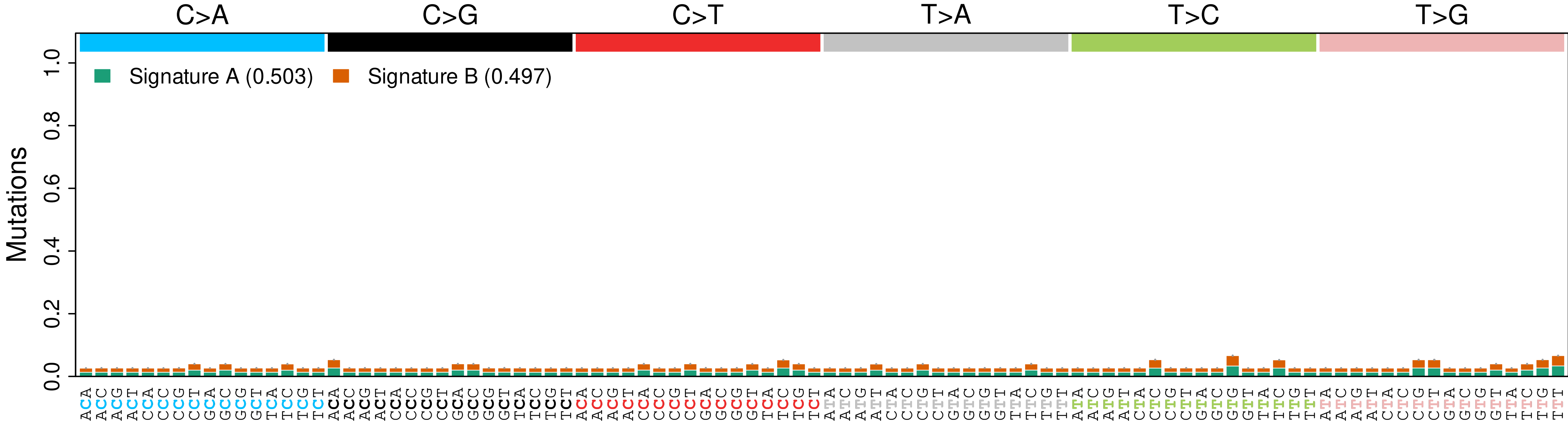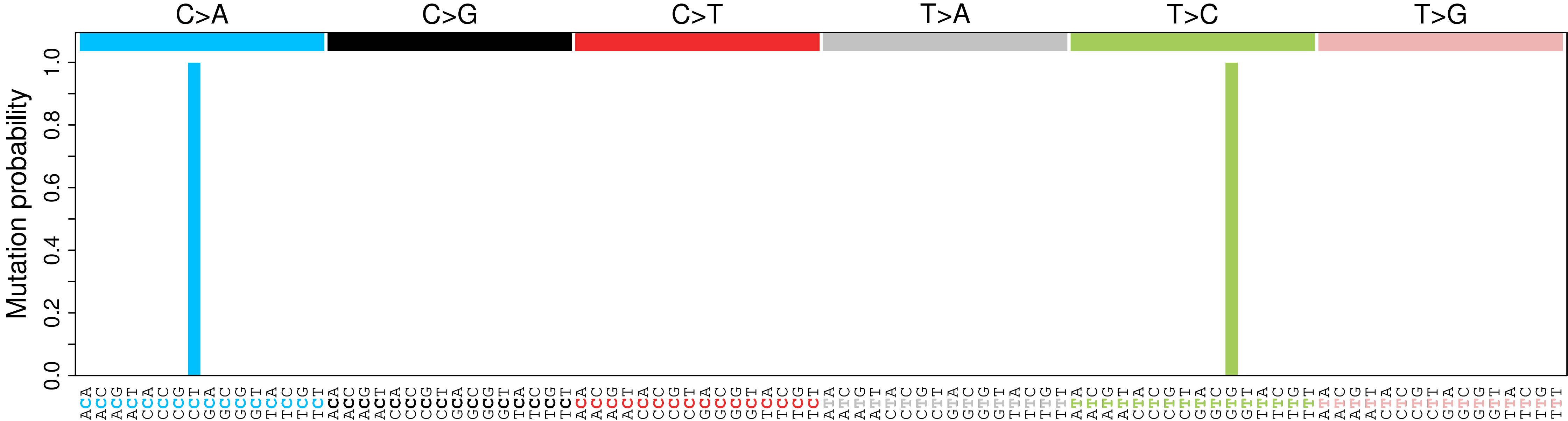
CATD227a

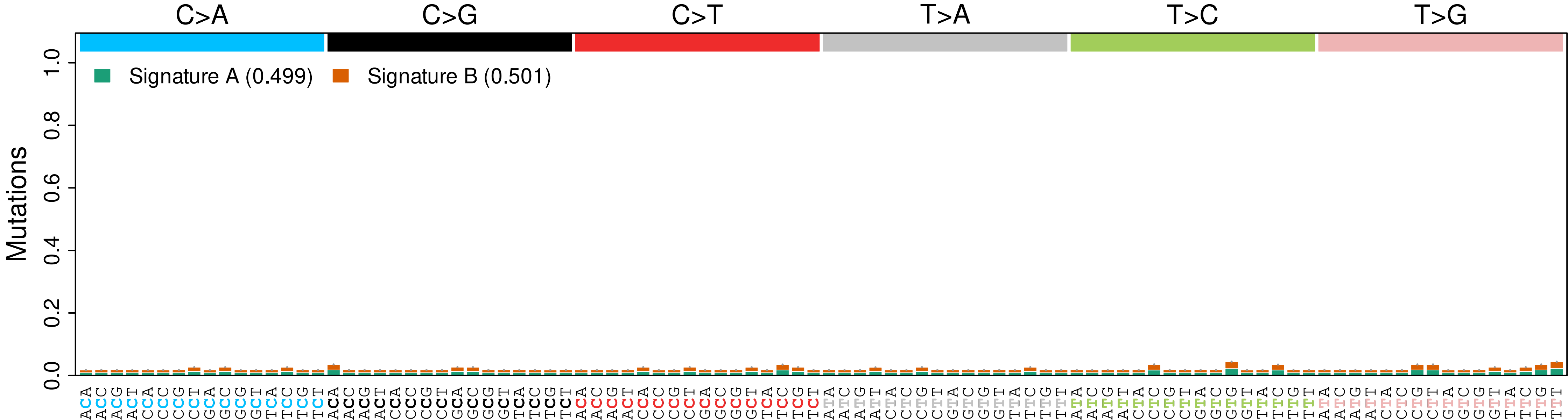# Reconstructed spectrum (cosine similarity = 0.204)

CATD0710a

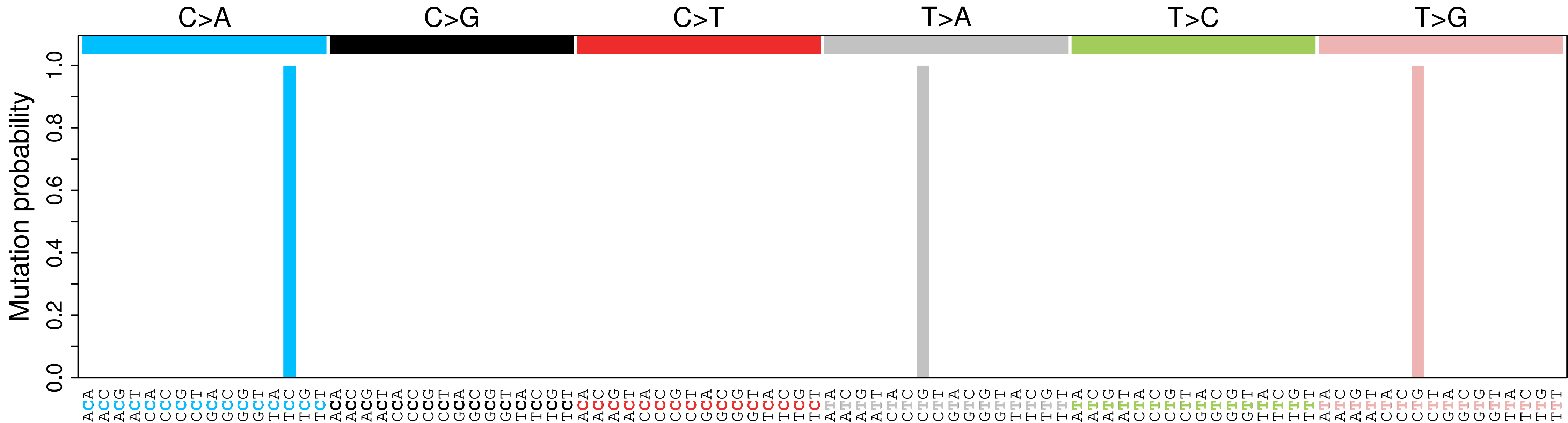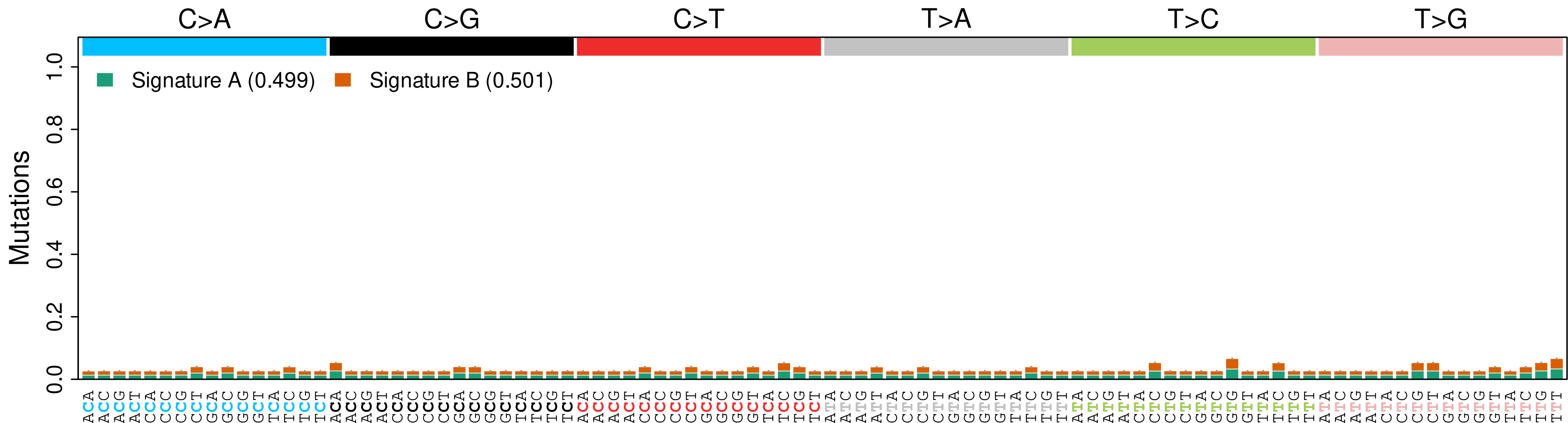Reconstructed spectrum (cosine similarity = 0.216)

Signature A (0.503)   Signature B (0.497)

CATD0717a

Reconstructed spectrum (cosine similarity = 0.235)

Signature A (0.499)   Signature B (0.501)

CATD242a

Reconstructed spectrum (cosine similarity = 0.239)

Signature A (0.499)   Signature B (0.501)

CATD0709a
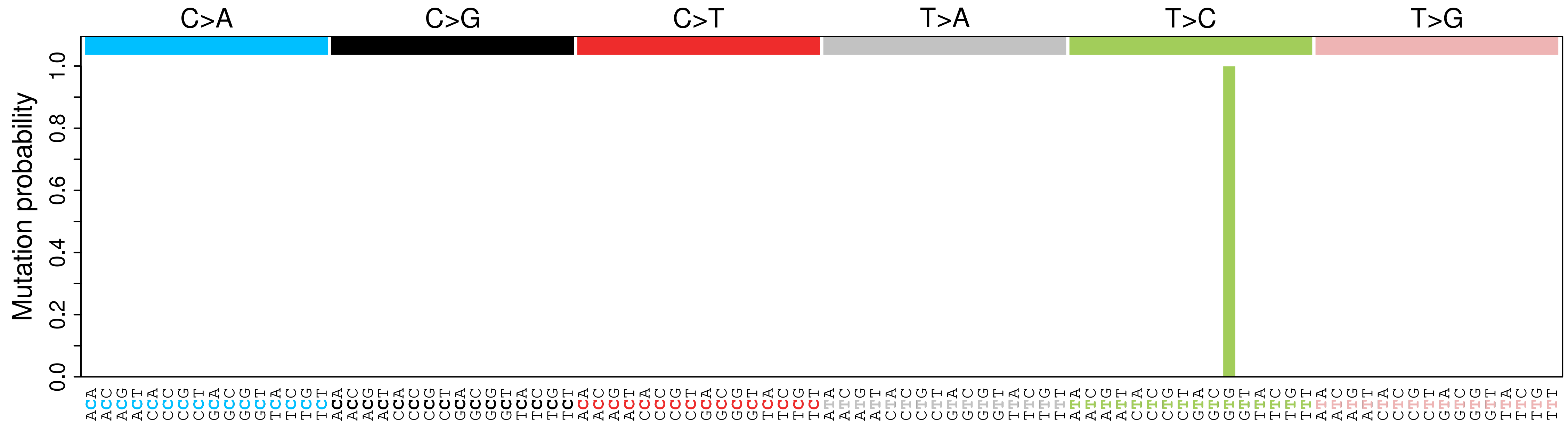
Reconstructed spectrum (cosine similarity = 0.207)

CATD239a

CATD216a

Reconstructed spectrum (cosine similarity = 0.124)

Signature A (0.5) Signature B (0.5)

CATD232a

Reconstructed spectrum (cosine similarity = 0.165)

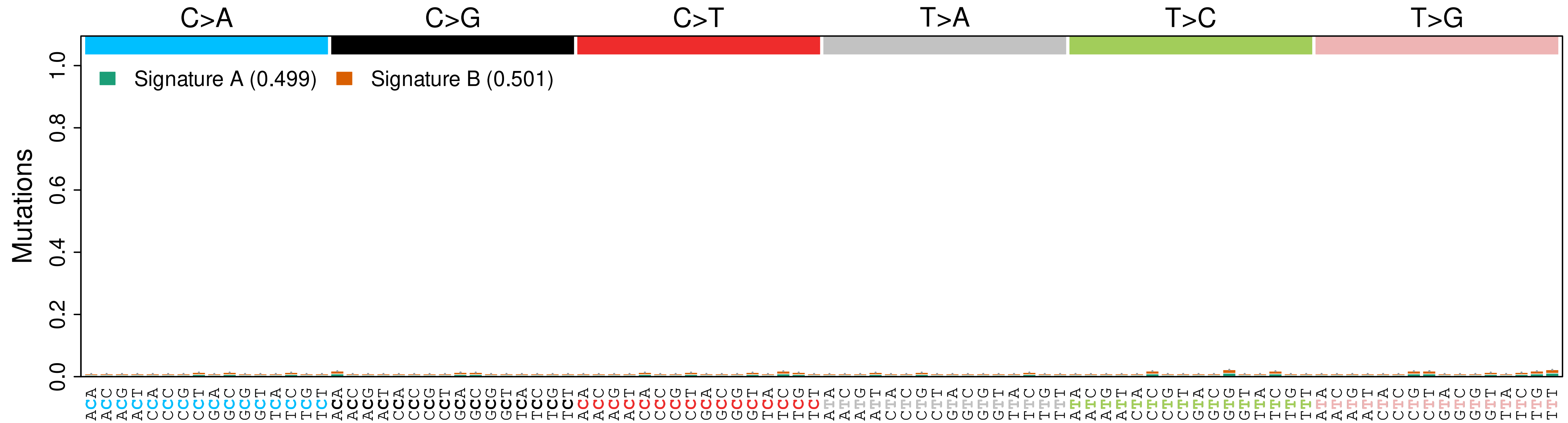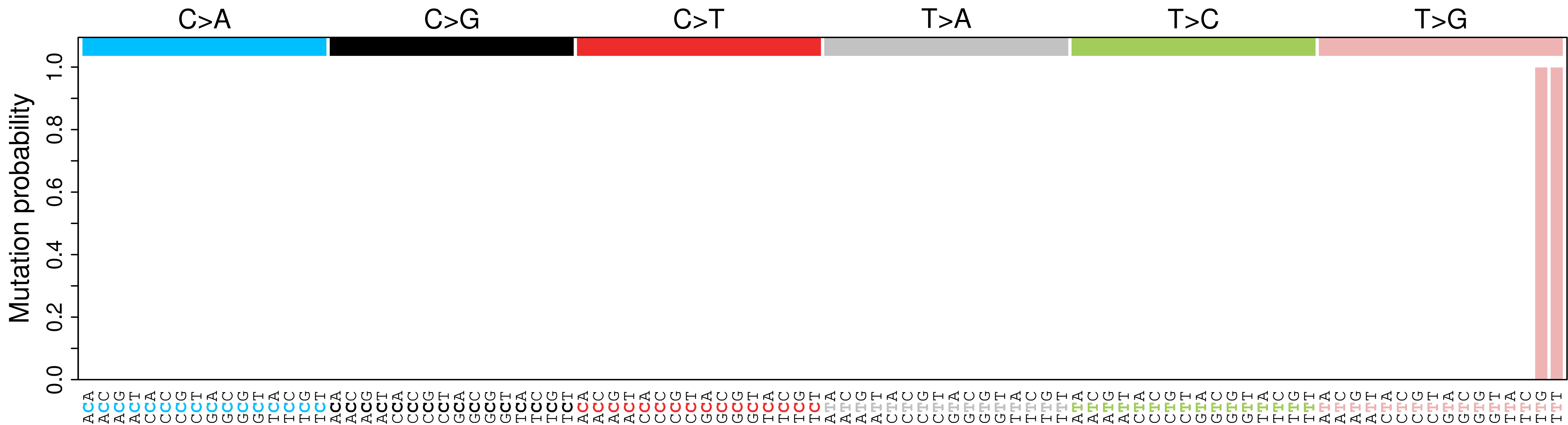Signature A (0.501)   Signature B (0.499)

CATD229a

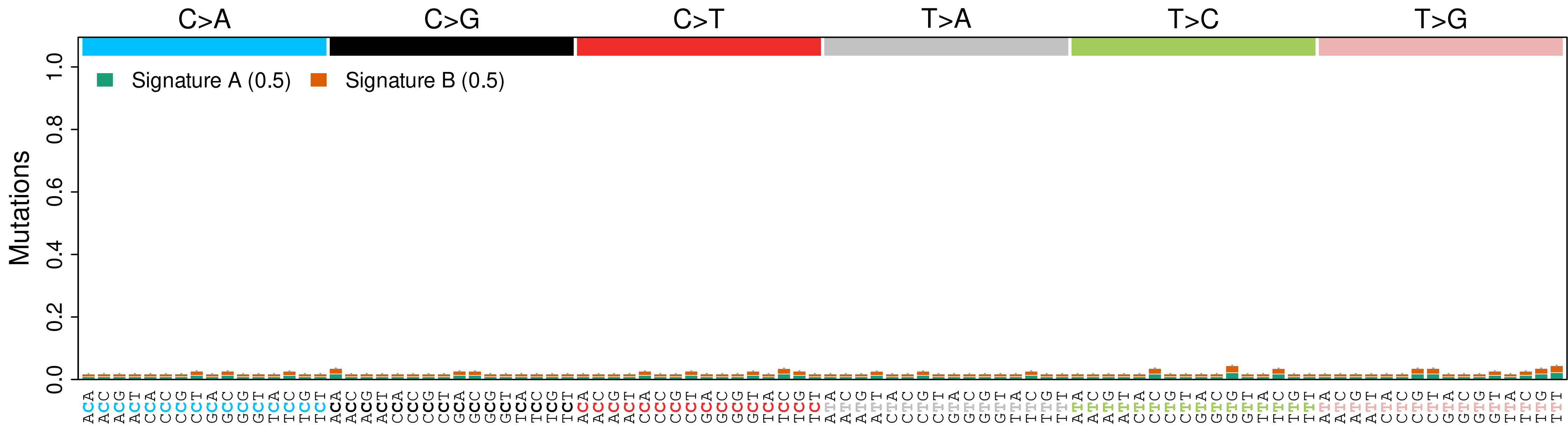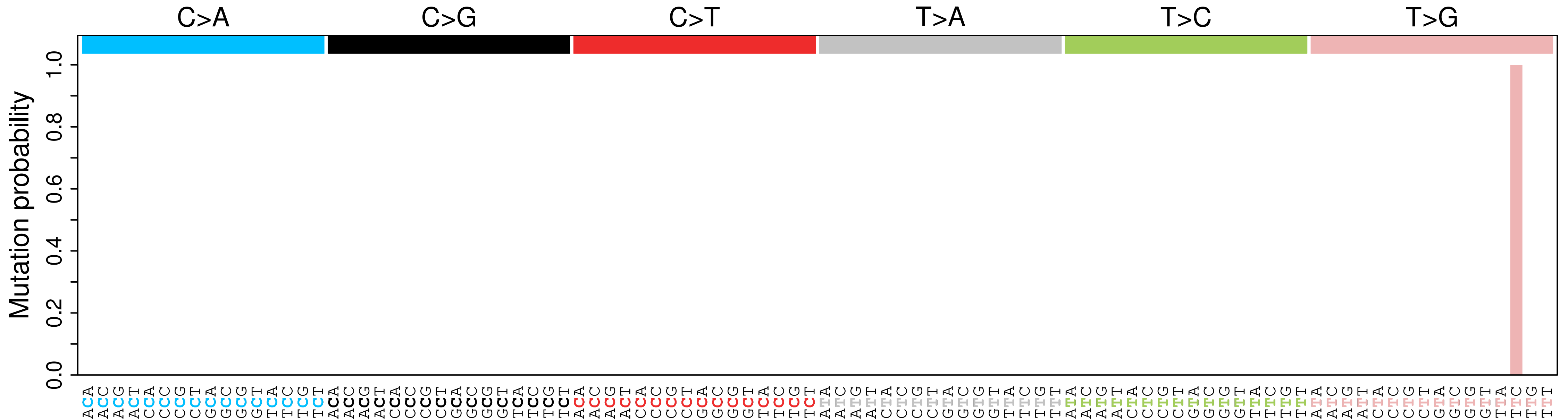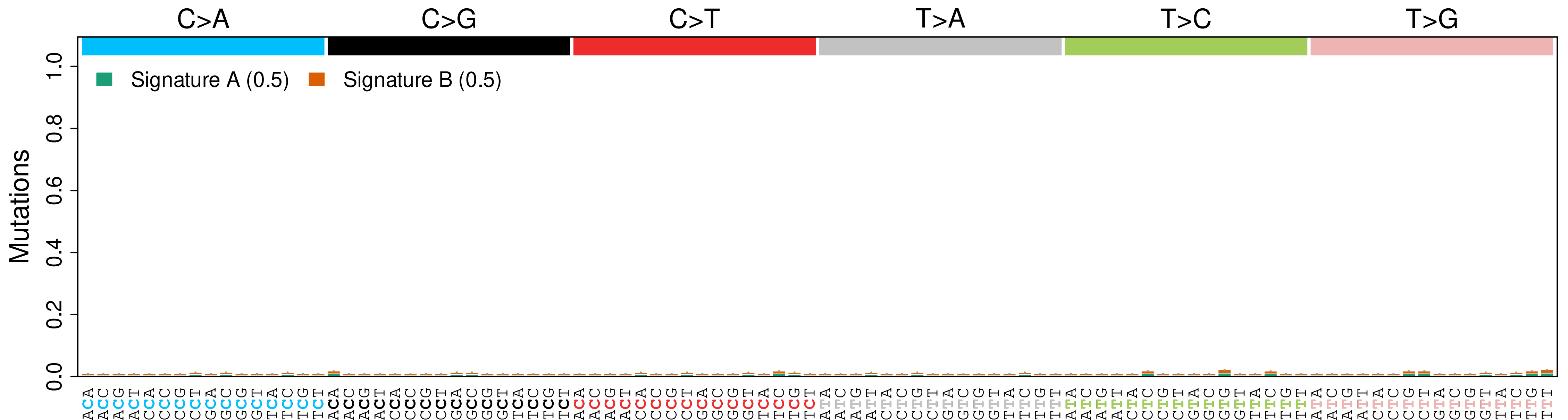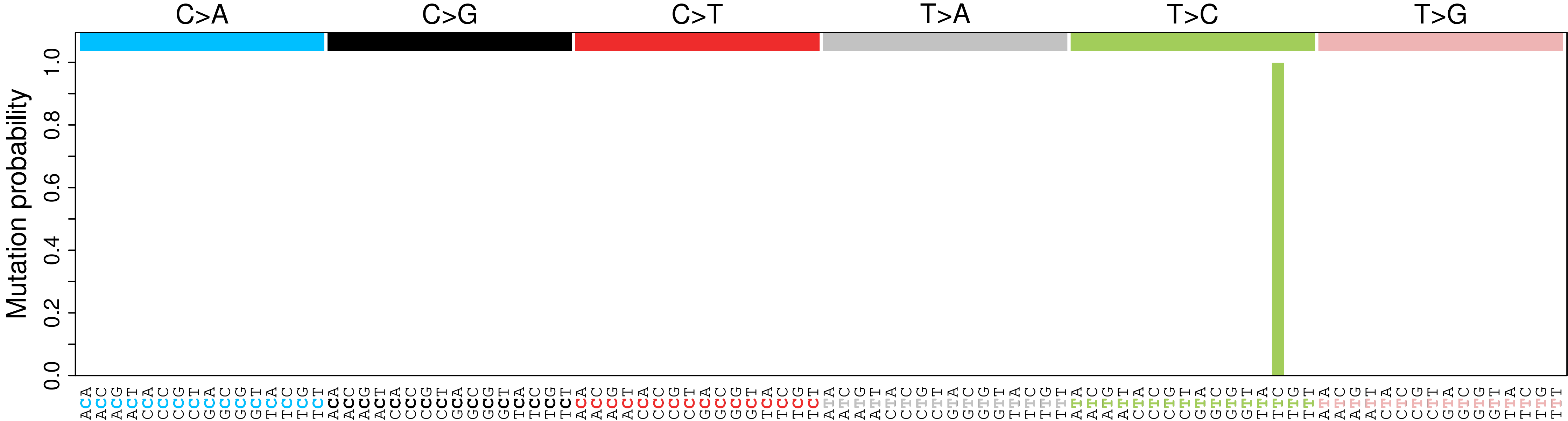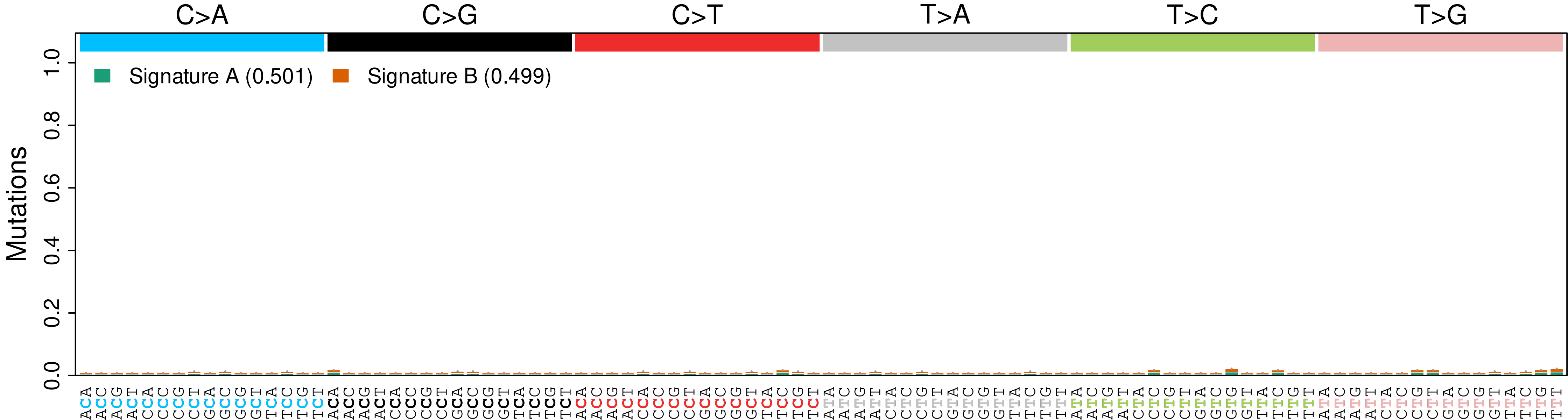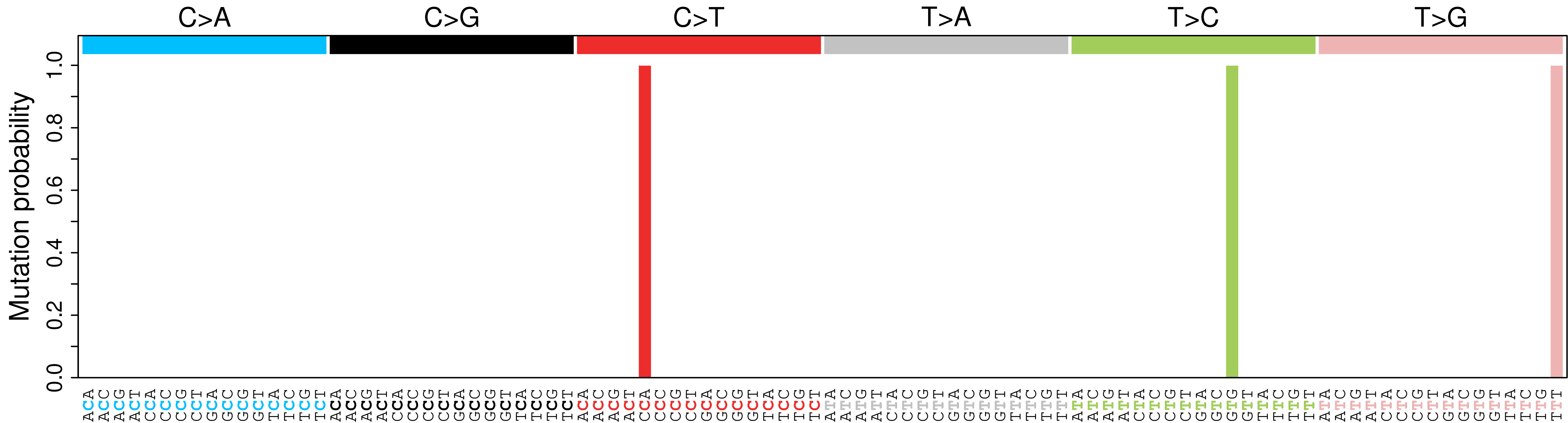Reconstructed spectrum (cosine similarity = 0.311)
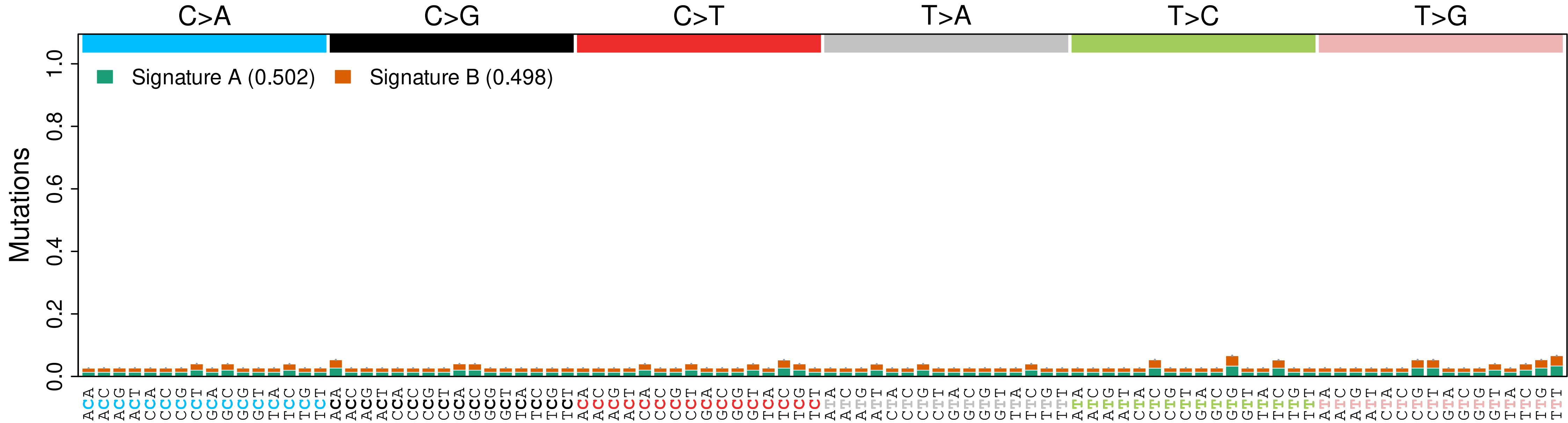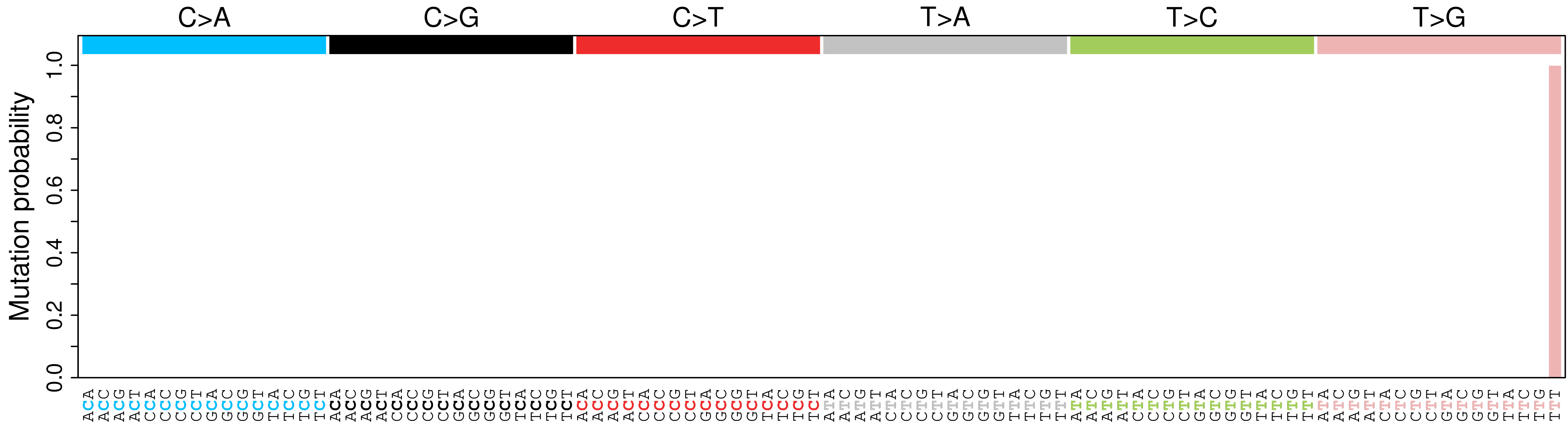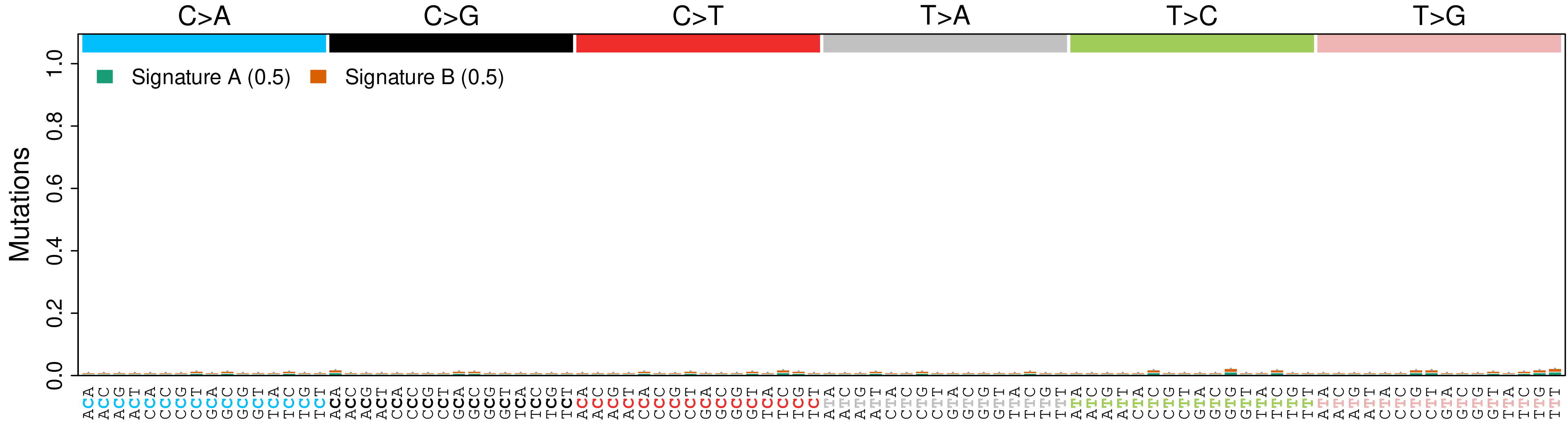
CATD0712a

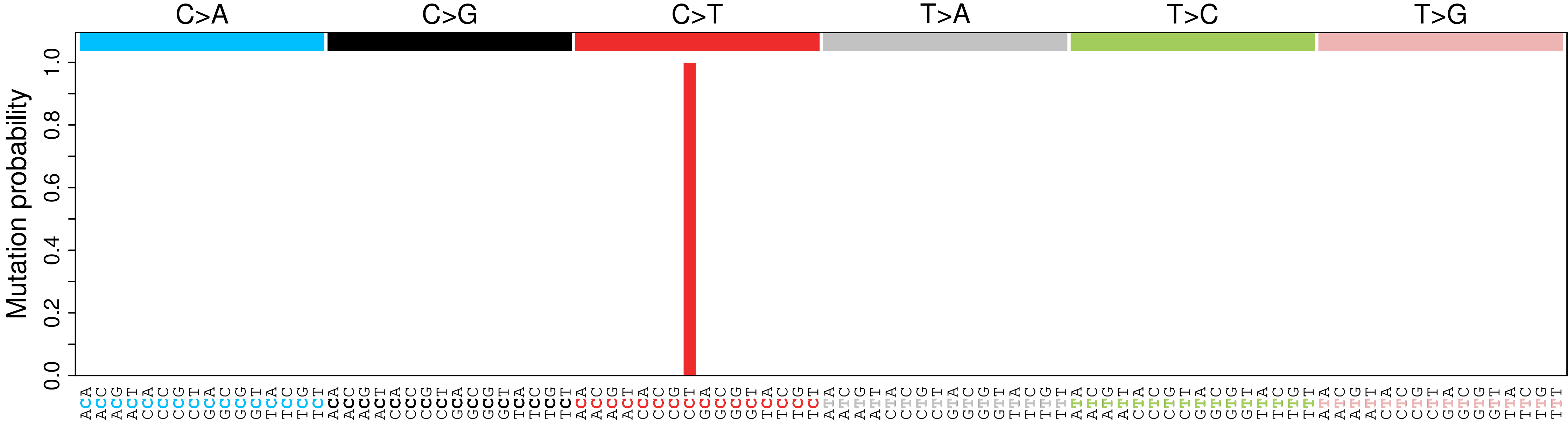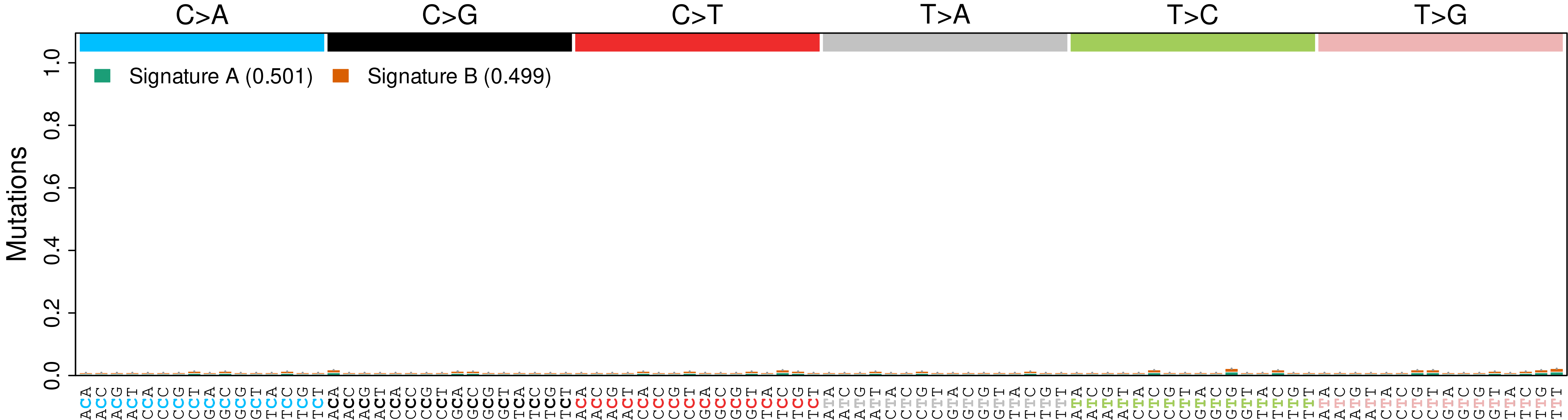## Reconstructed spectrum (cosine similarity = 0.239)

CATD226a

Reconstructed spectrum (cosine similarity = 0.207)

CATD0715a

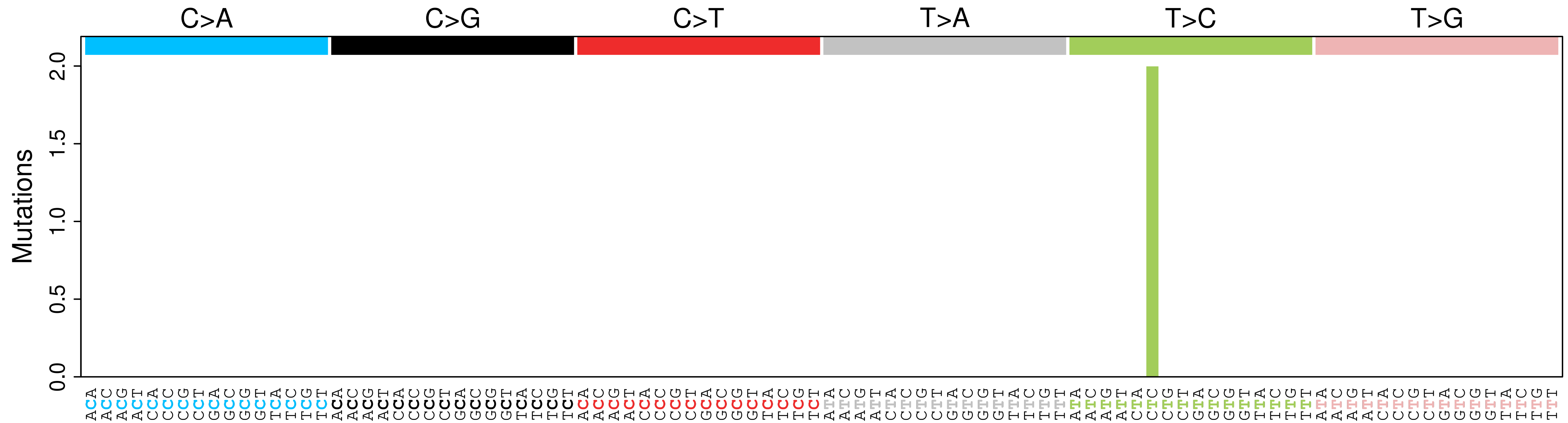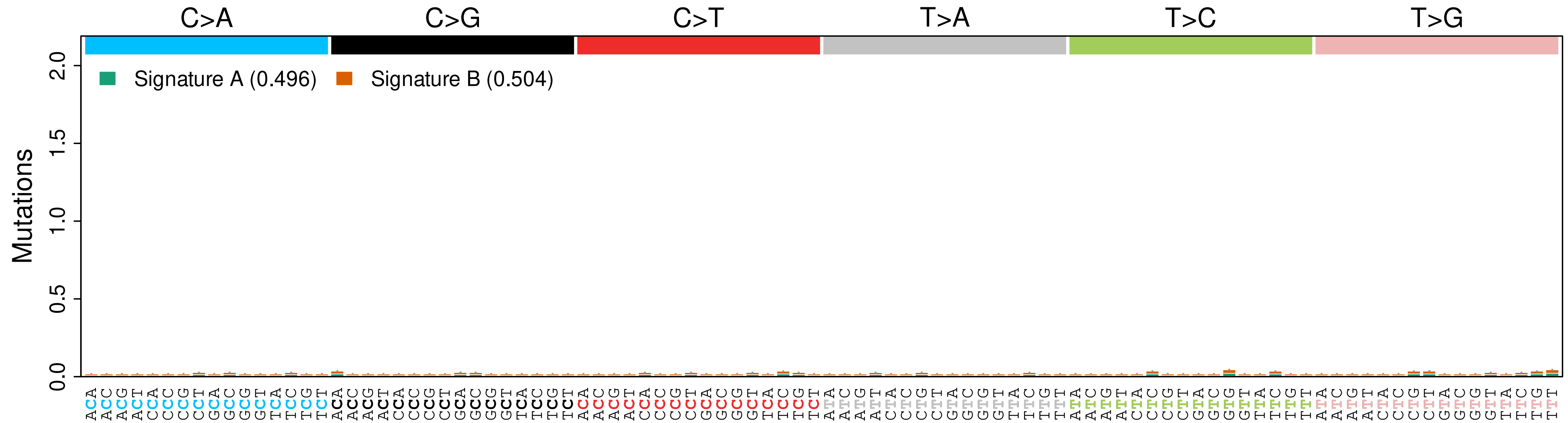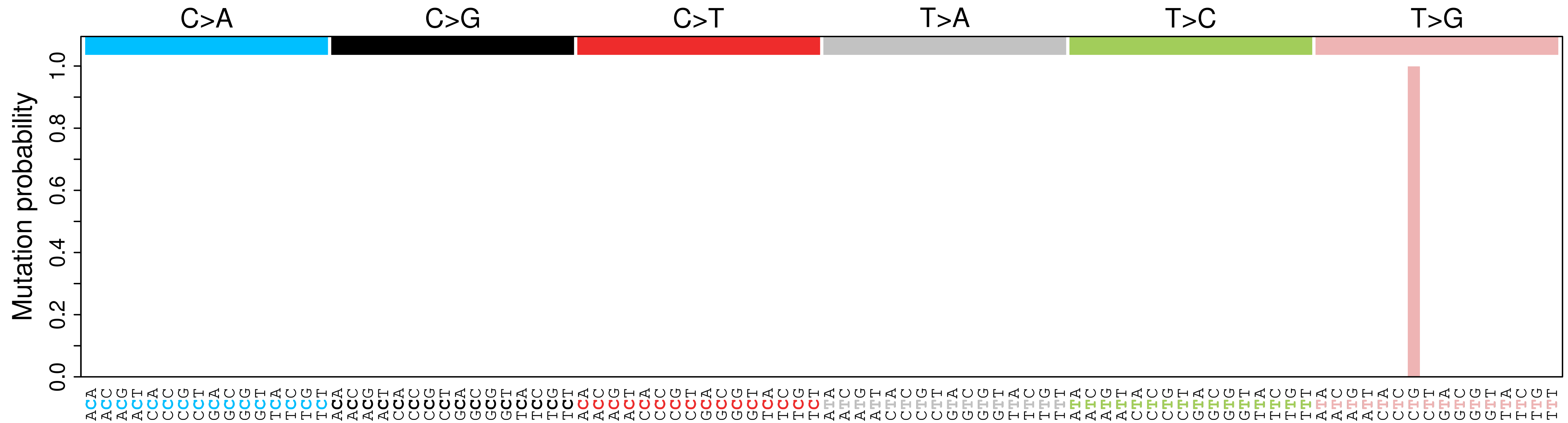Reconstructed spectrum (cosine similarity = 0.125)

Signature A (0.501)   Signature B (0.499)

CATD224a (2 mutations)

Reconstructed spectrum (cosine similarity = 0.166)

Signature A (0.496) Signature B (0.504)

CATD0561e