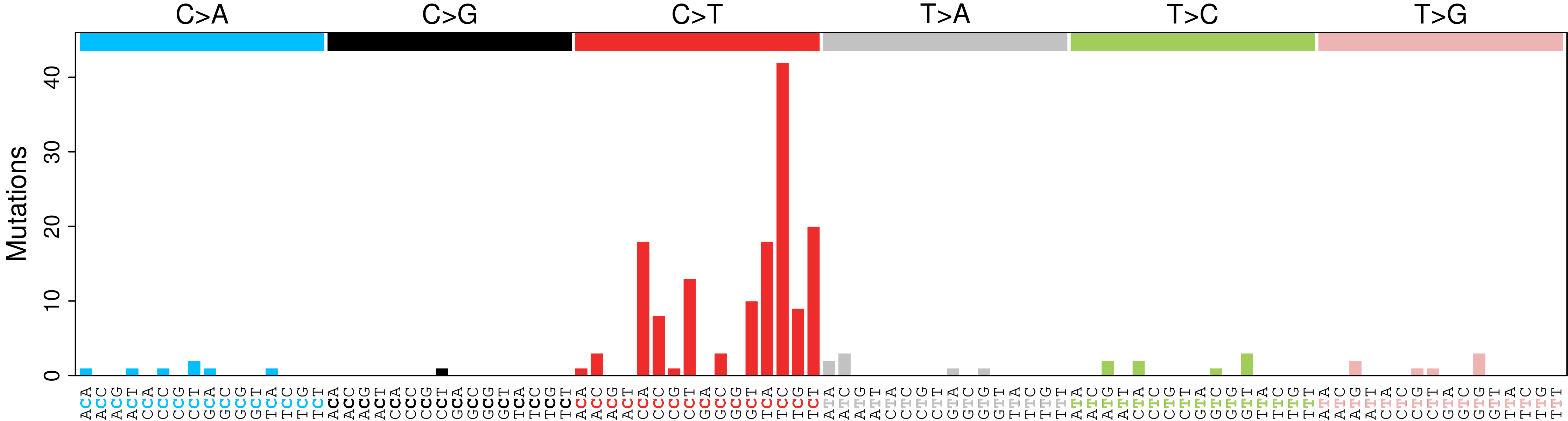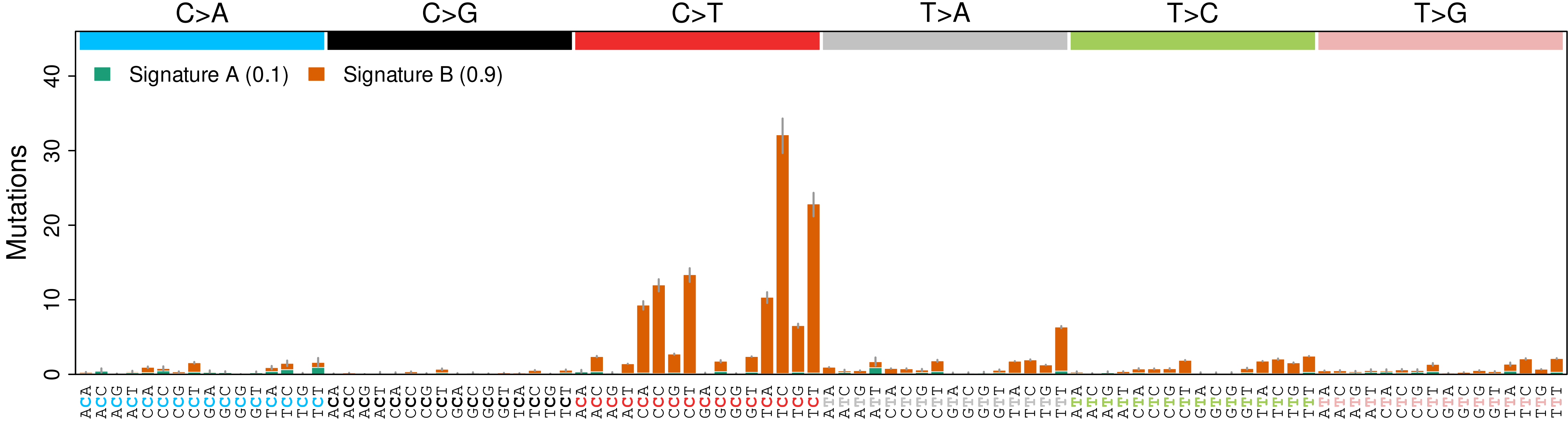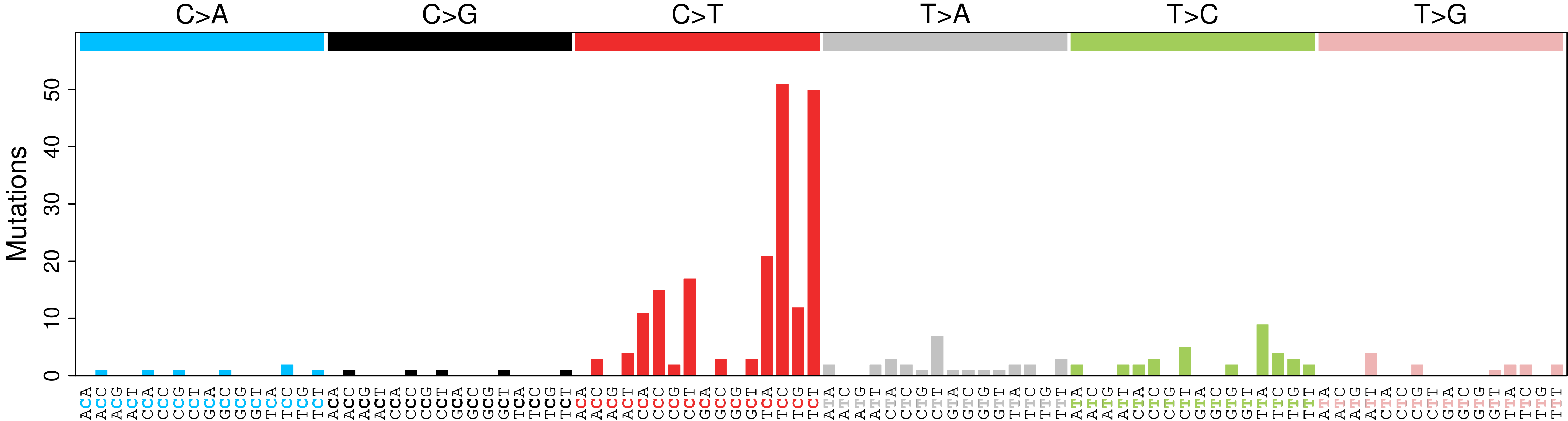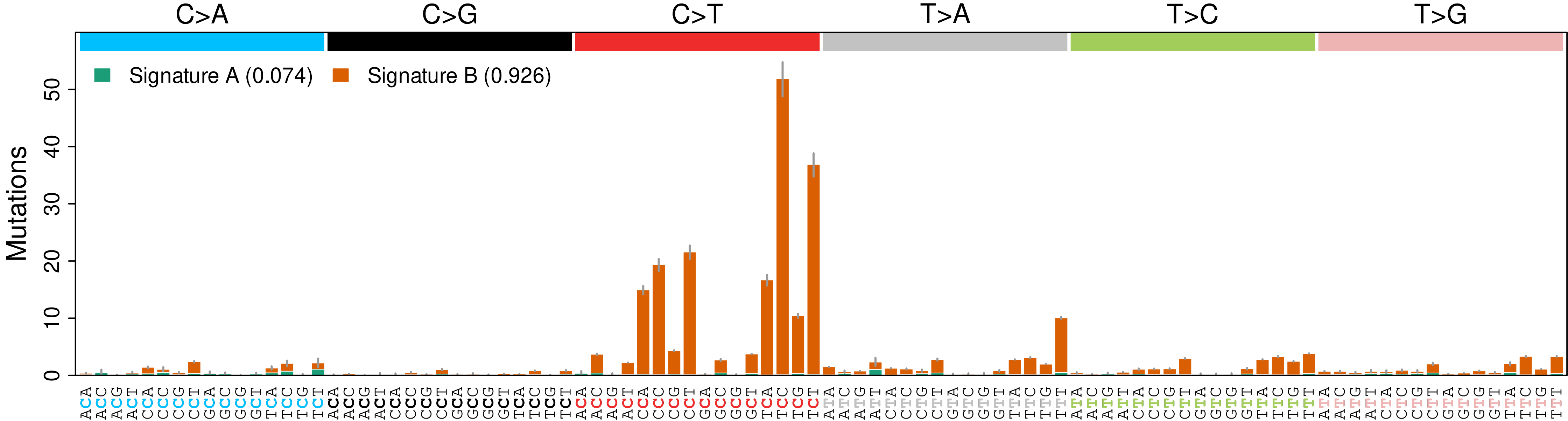CATD269a (176 mutations)

Reconstructed spectrum (cosine similarity = 0.935)

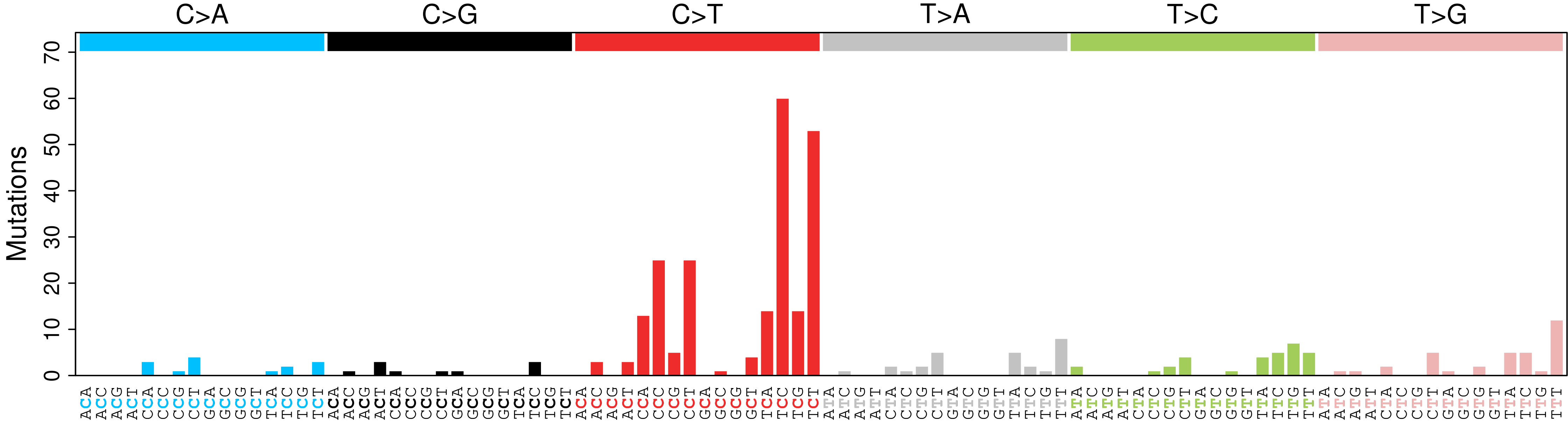**CATD256a (279 mutations)**

Reconstructed spectrum (cosine similarity = 0.967)

Signature A (0.074)   Signature B (0.926)

CATD251a (337 mutations)

Reconstructed spectrum (cosine similarity = 0.981)

Signature A (0.05) Signature B (0.95)

CATD0132a (381 mutations)

Reconstructed spectrum (cosine similarity = 0.974)

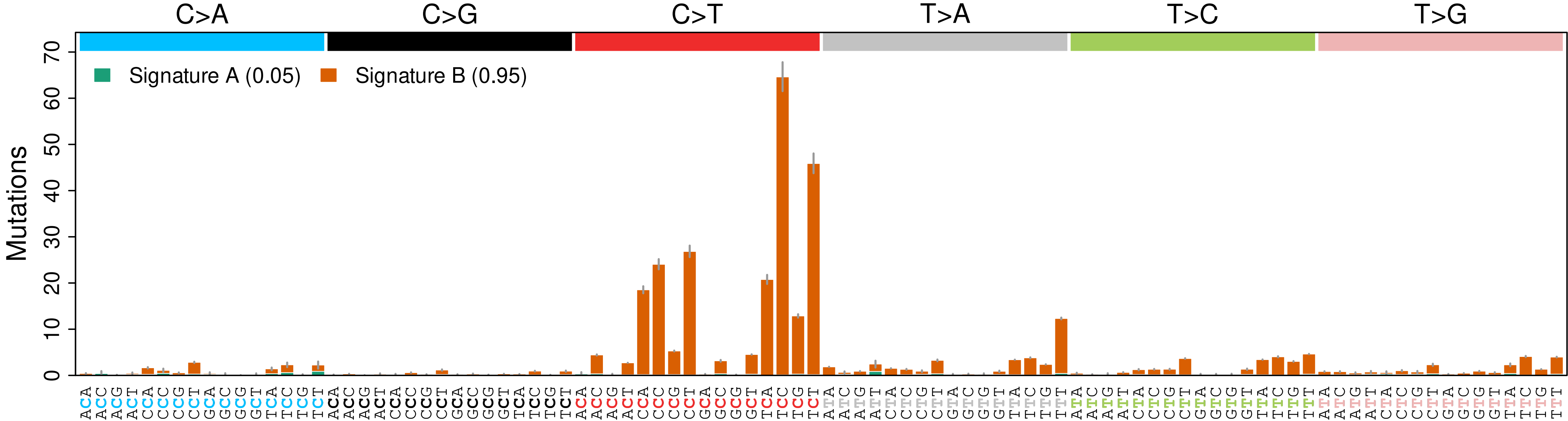Signature A (0.021)　Signature B (0.979)

CATD0119a (586 mutations)

Reconstructed spectrum (cosine similarity = 0.991)

CATD262a (323 mutations)

Reconstructed spectrum (cosine similarity = 0.959)

CATD248a (463 mutations)
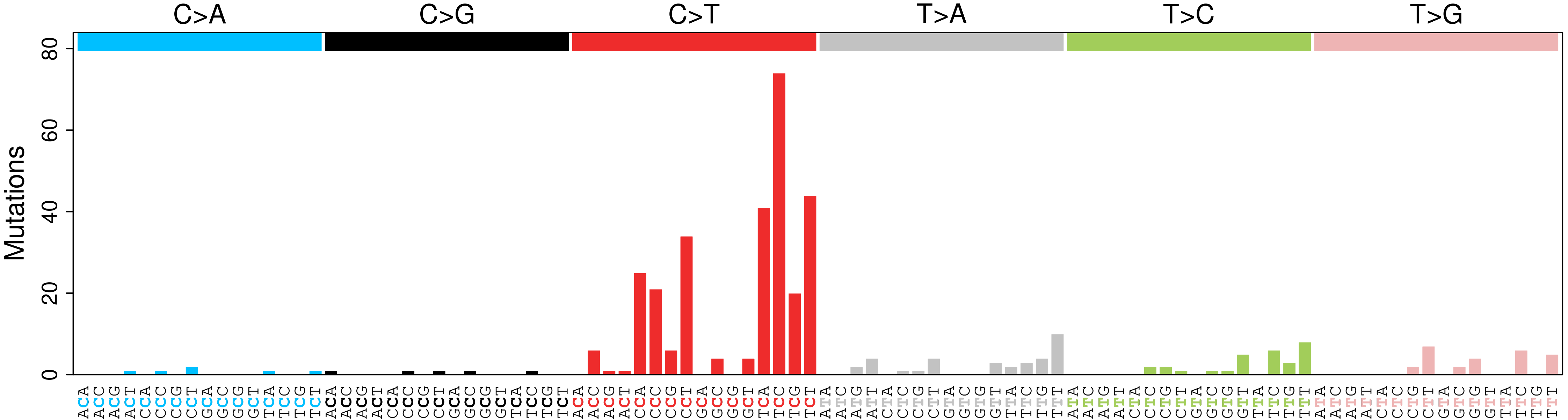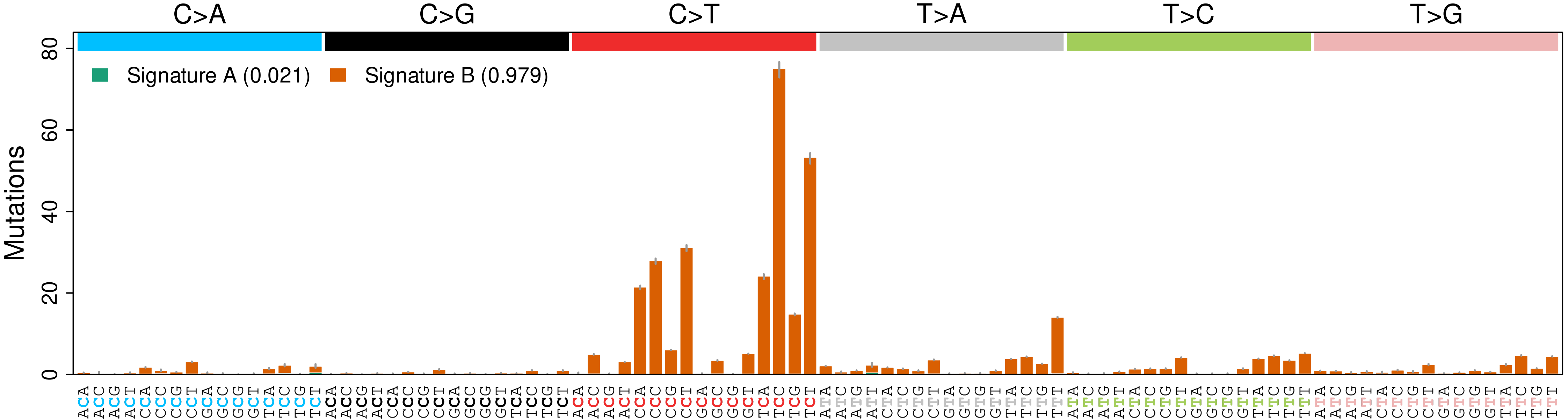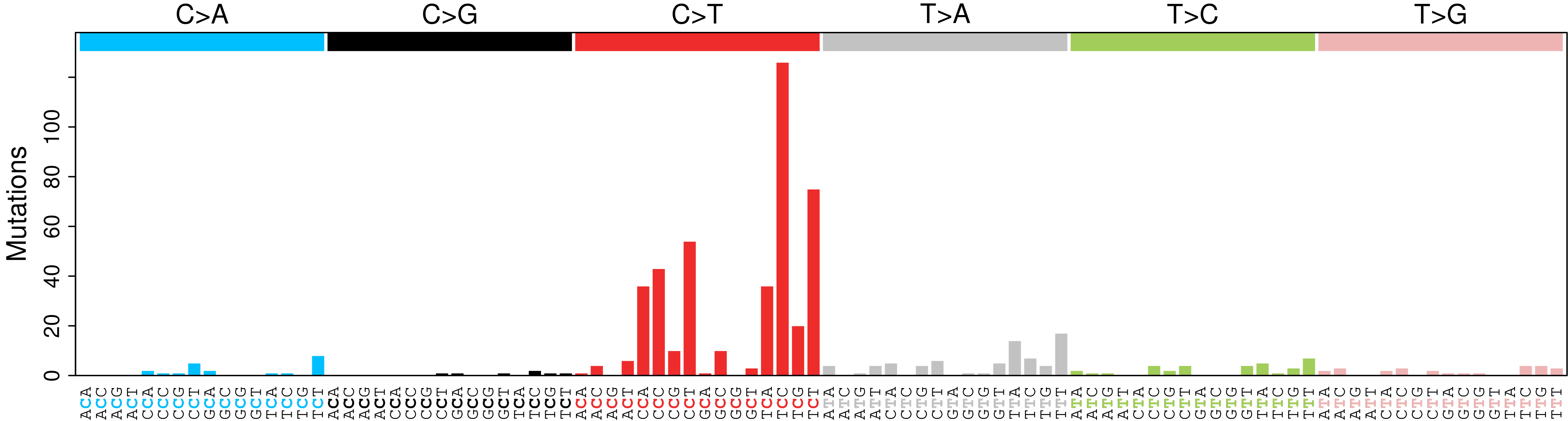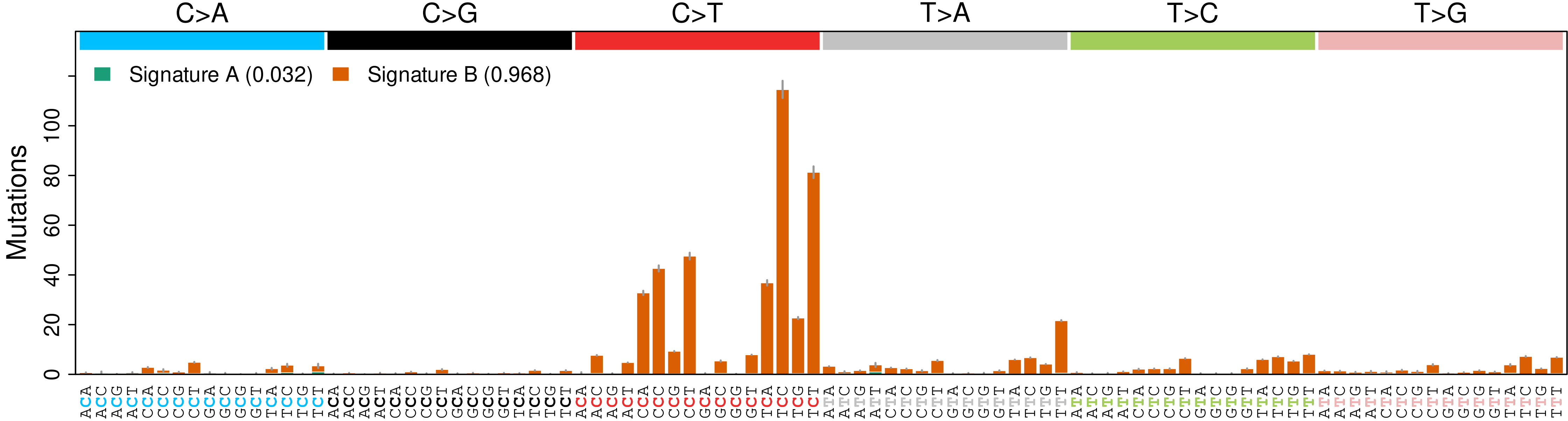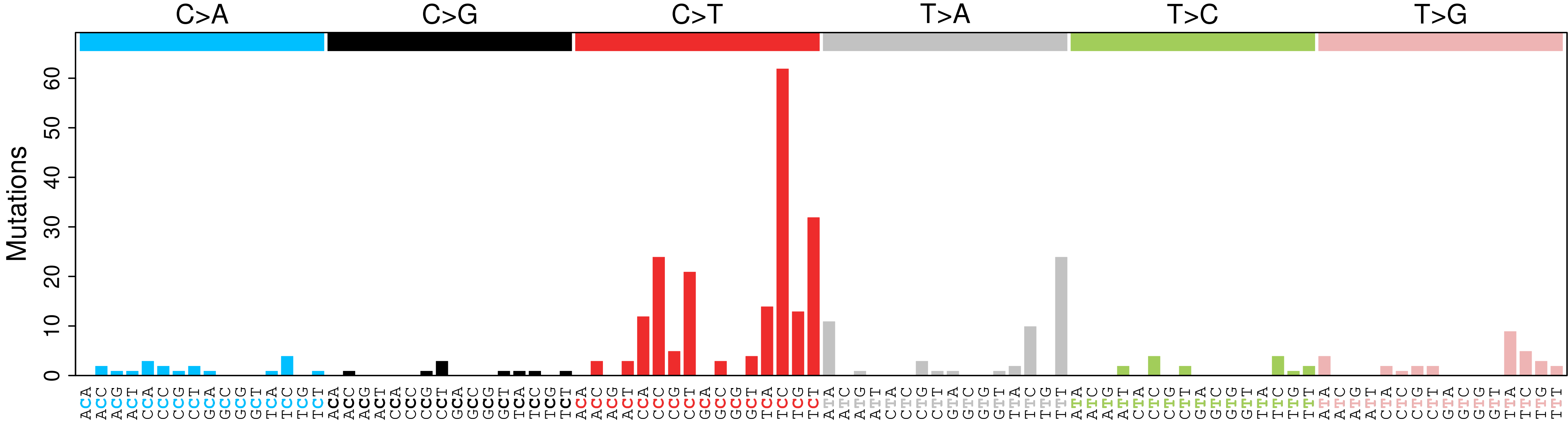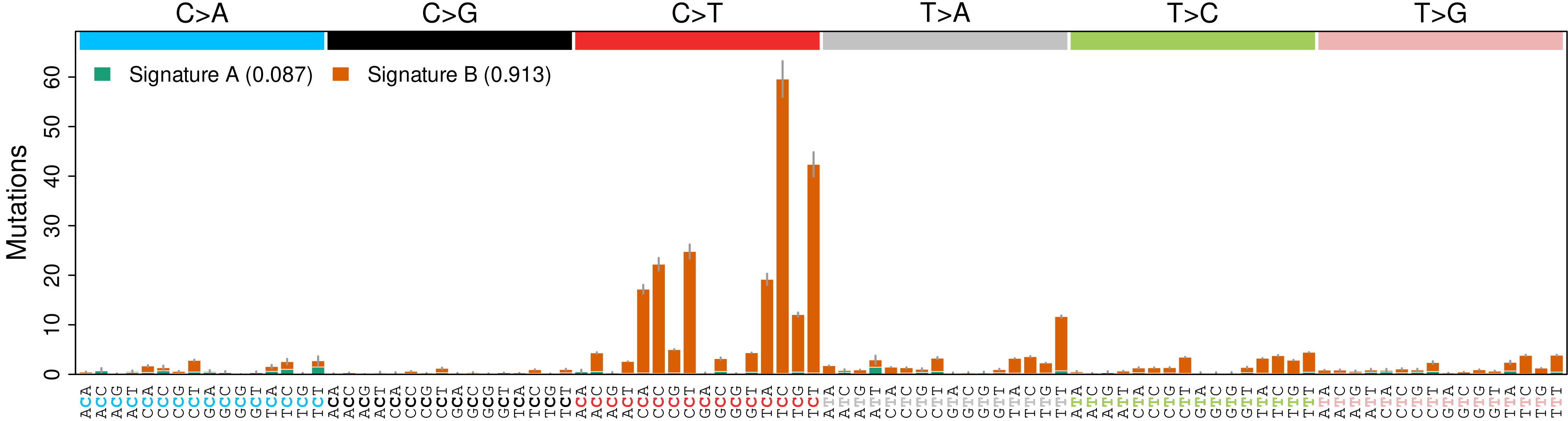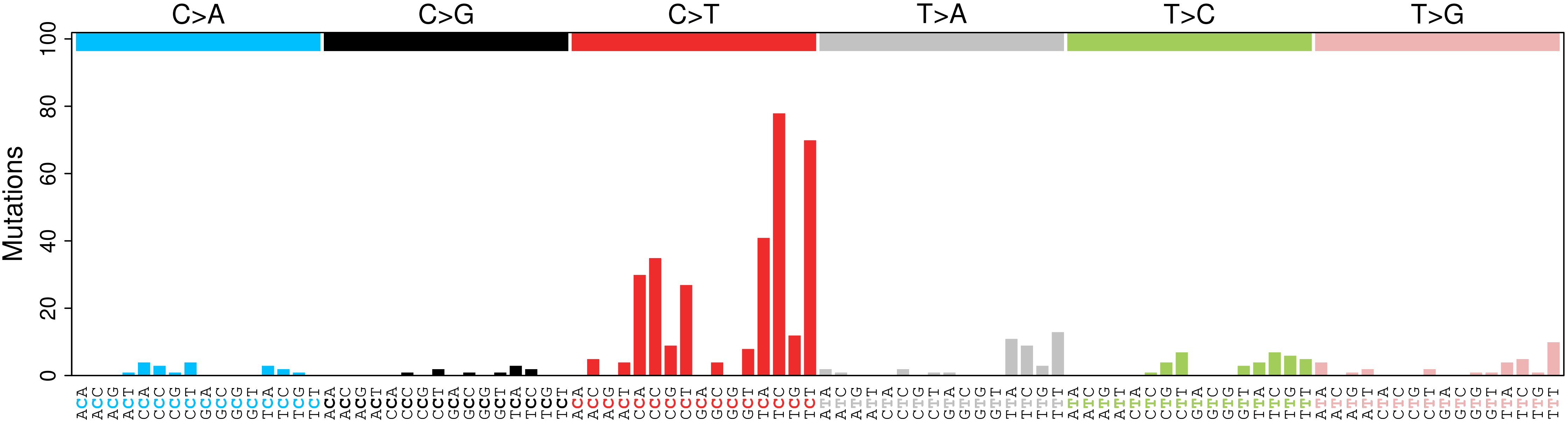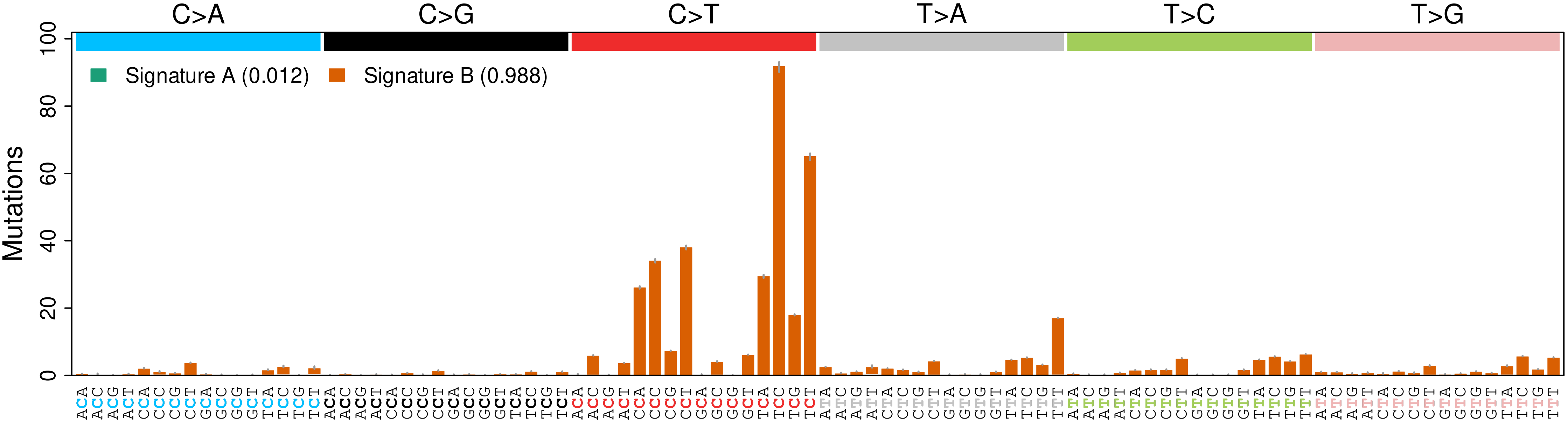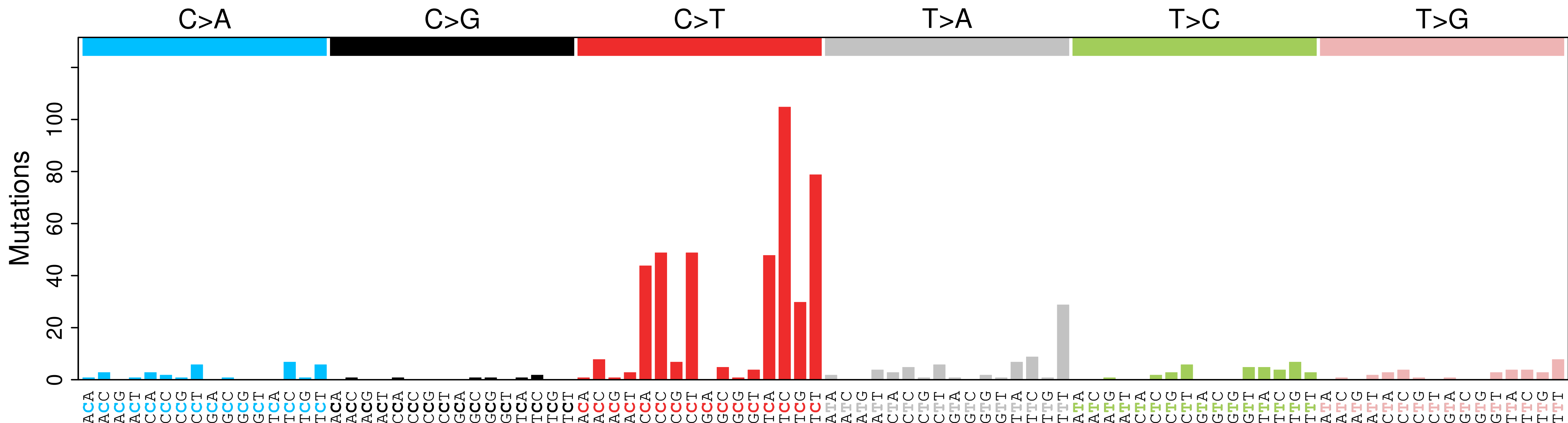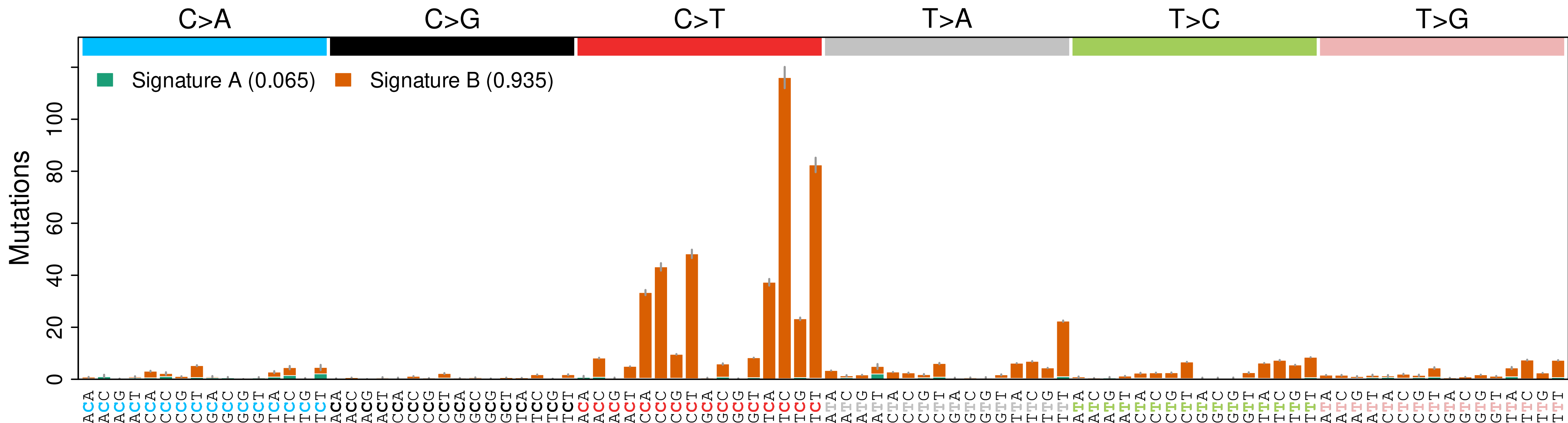
Reconstructed spectrum (cosine similarity = 0.98)

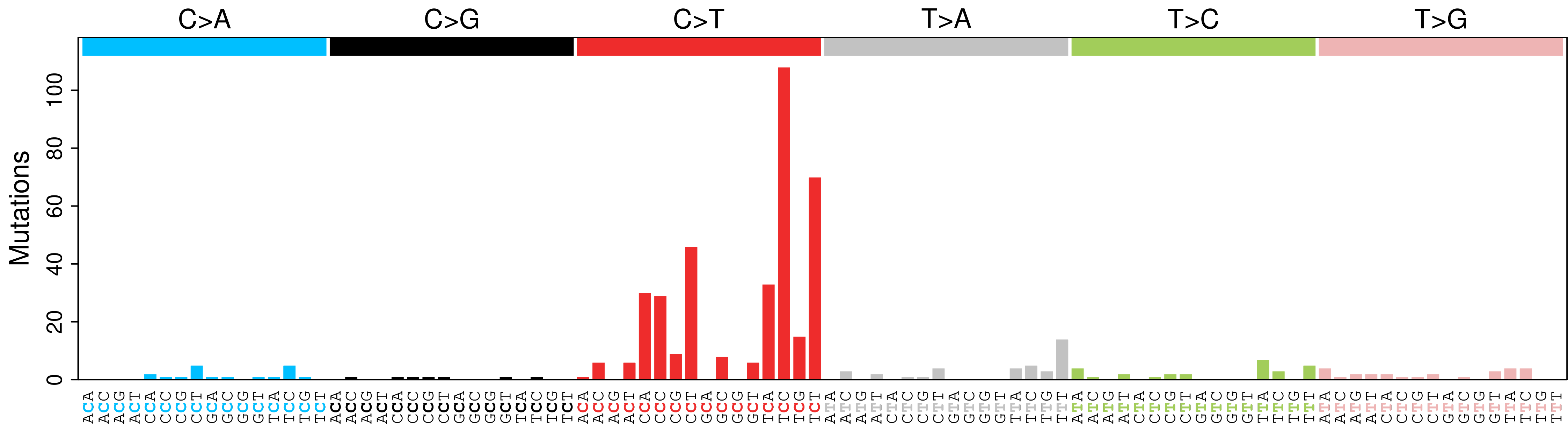Signature A (0.012) Signature B (0.988)

CATD0122a (614 mutations)

Reconstructed spectrum (cosine similarity = 0.988)

Signature A (0.065) Signature B (0.935)
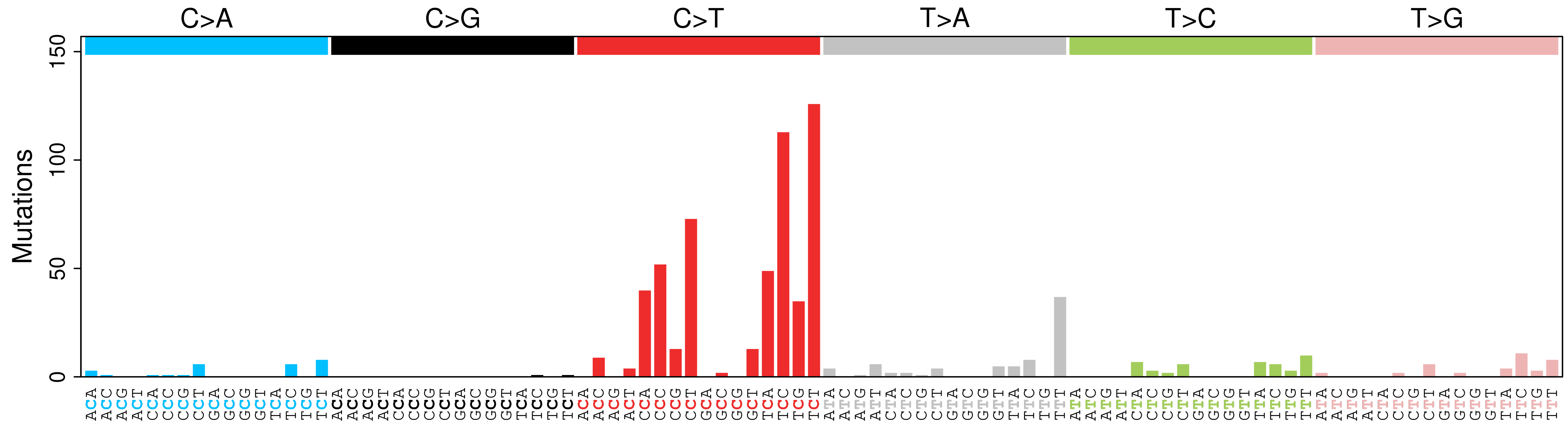
CATD252a (484 mutations)

Reconstructed spectrum (cosine similarity = 0.991)

Signature A (0.043)   Signature B (0.957)
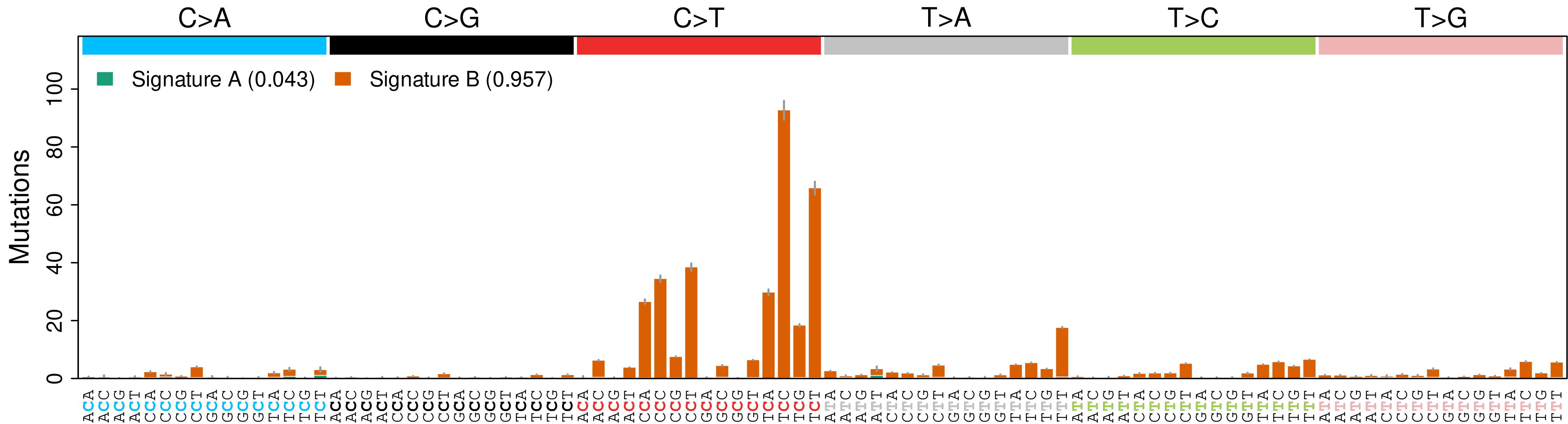
CATD268a (715 mutations)

Reconstructed spectrum (cosine similarity = 0.976)

Signature A (0.007)   Signature B (0.993)
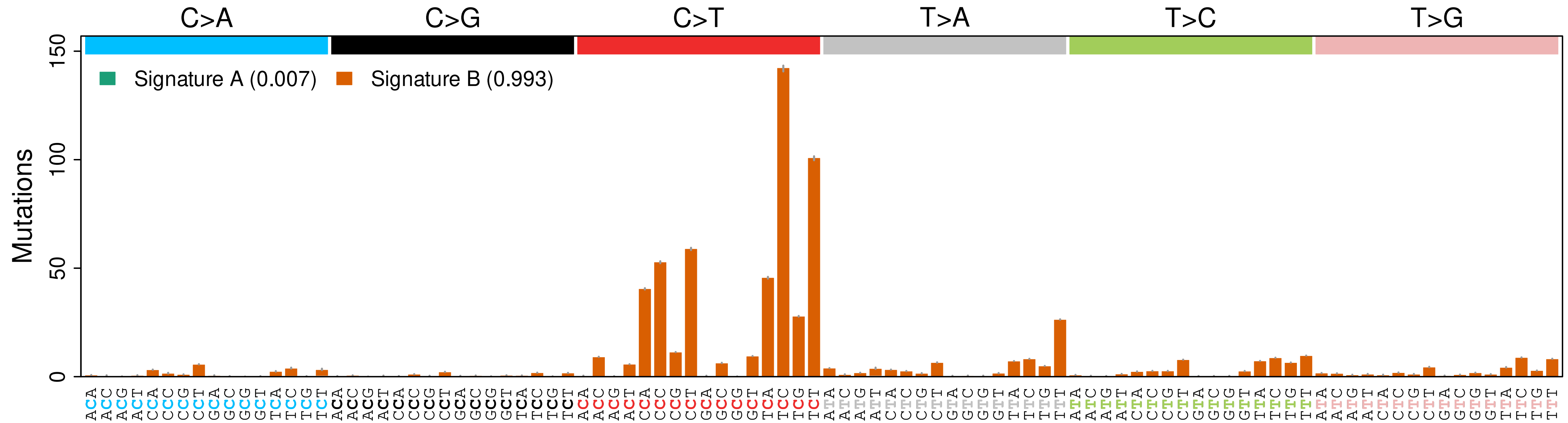
CATD187a (249 mutations)

Reconstructed spectrum (cosine similarity = 0.979)

Signature A (0.066) Signature B (0.934)

CATD245a (198 mutations)

Reconstructed spectrum (cosine similarity = 0.963)

Signature A (0.036)   Signature B (0.964)
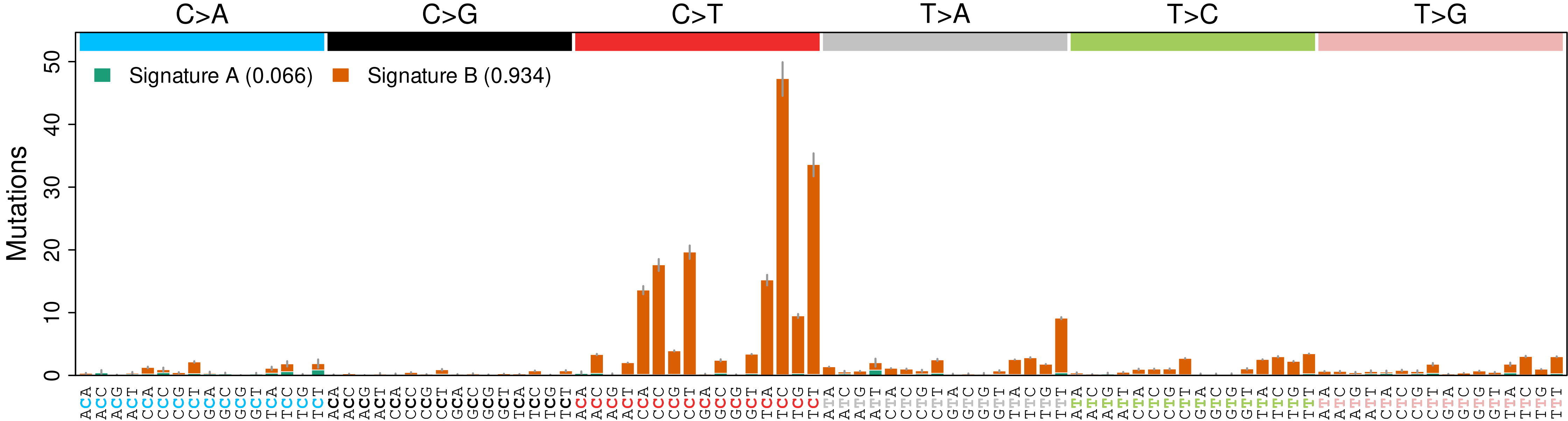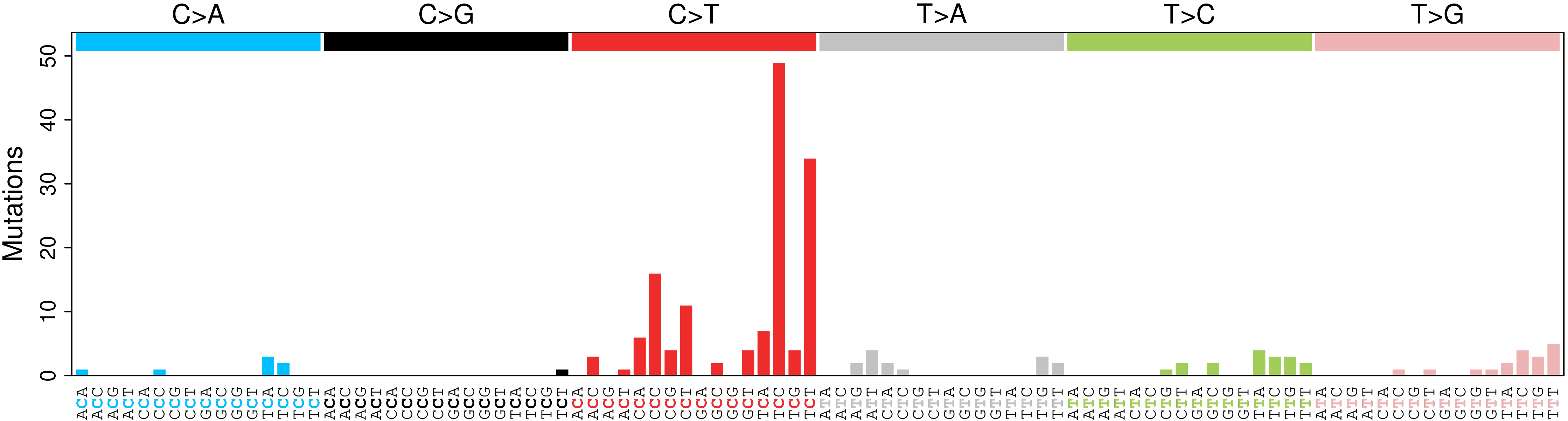
CATD0123a (311 mutations)

Reconstructed spectrum (cosine similarity = 0.976)

Signature A (0.016)   Signature B (0.984)
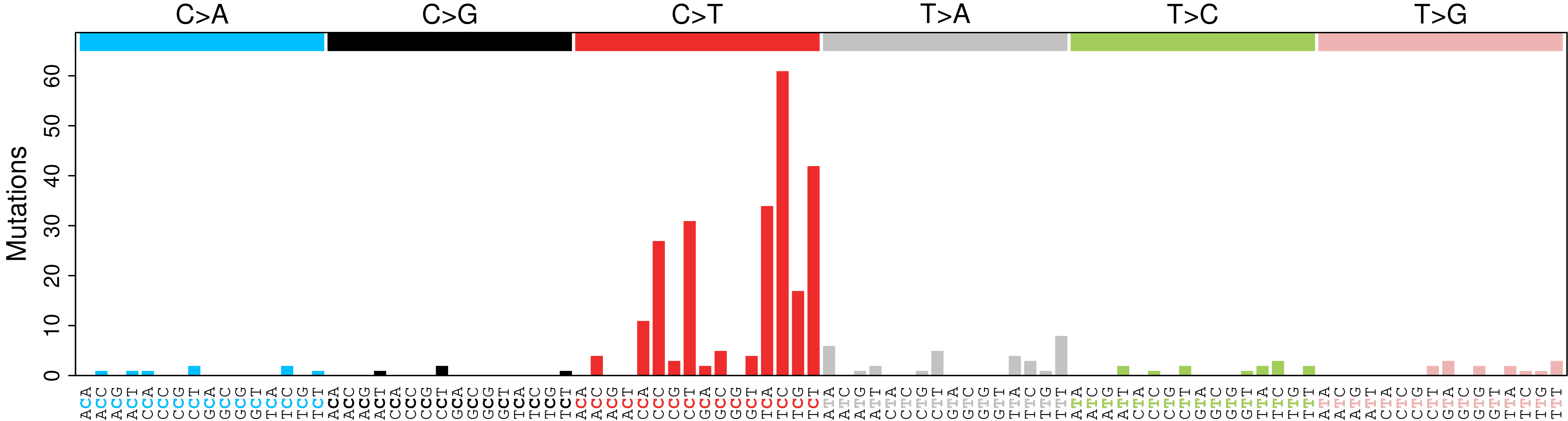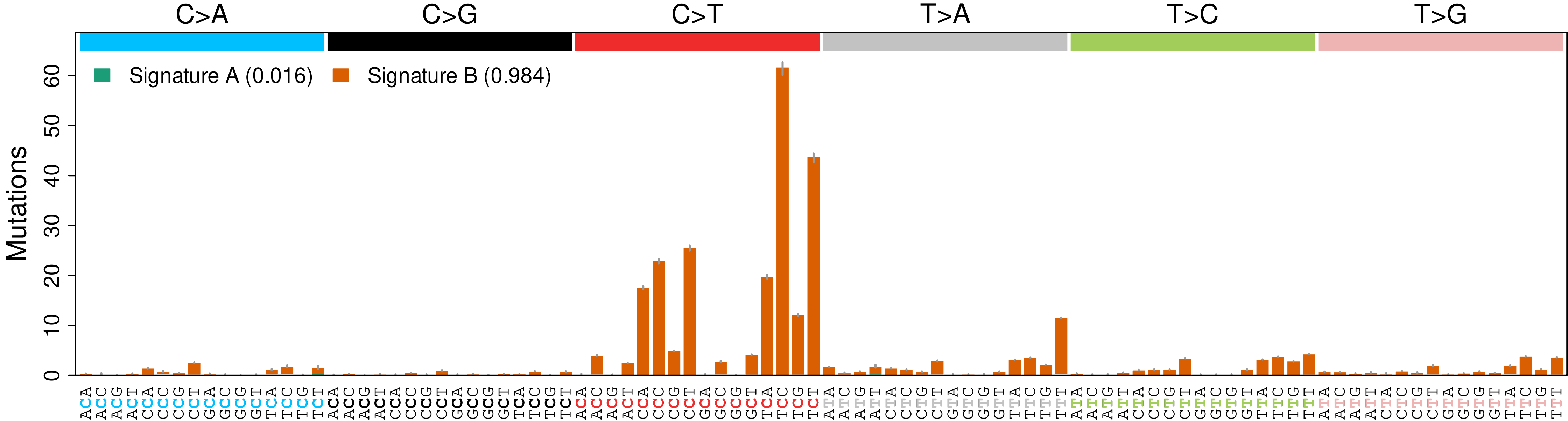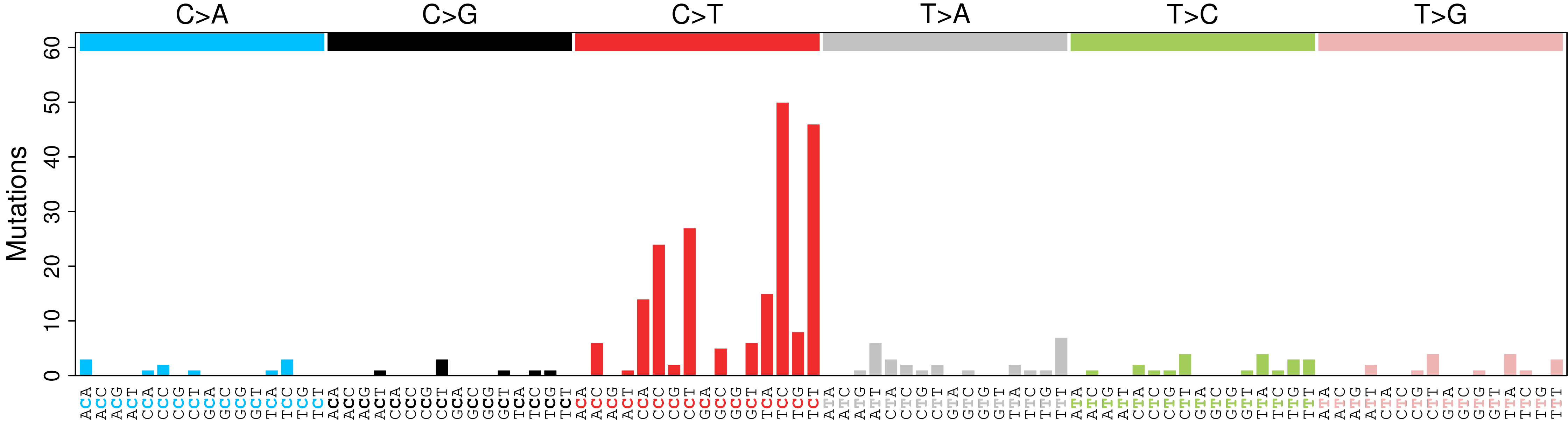
CATD255a (357 mutations)

Reconstructed spectrum (cosine similarity = 0.988)

Signature A (0.066)   Signature B (0.934)
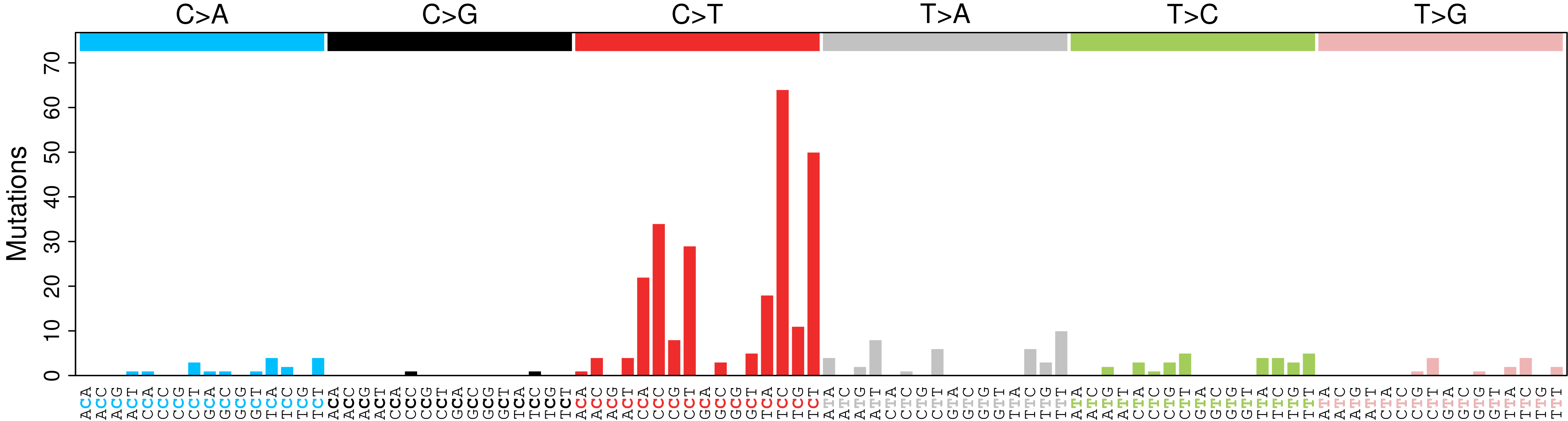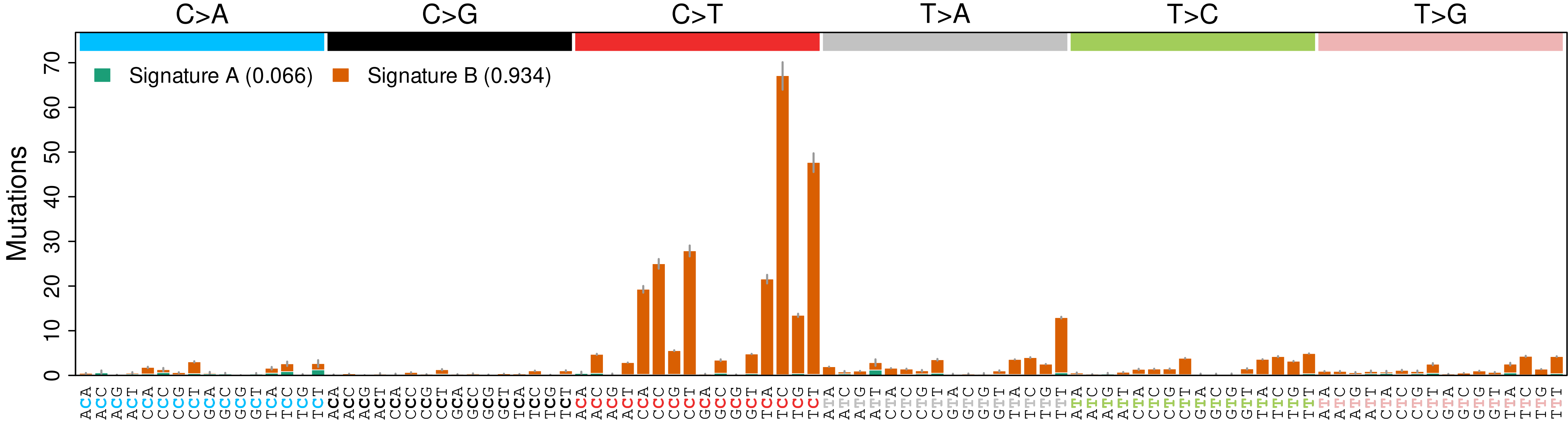
CATD244a (286 mutations)

Reconstructed spectrum (cosine similarity = 0.982)

Signature A (0.058)   Signature B (0.942)
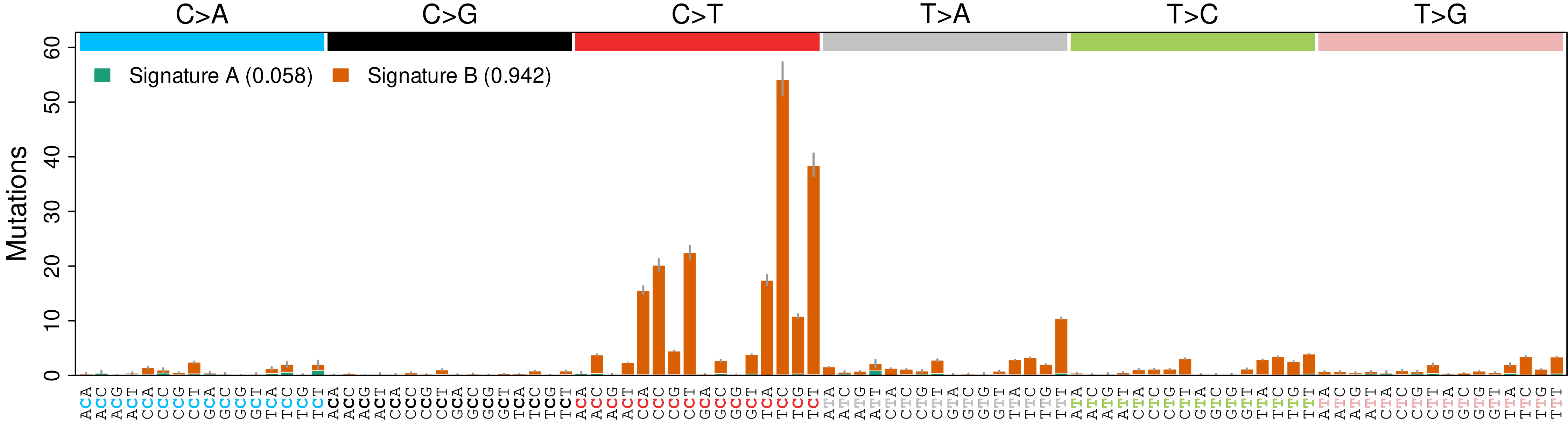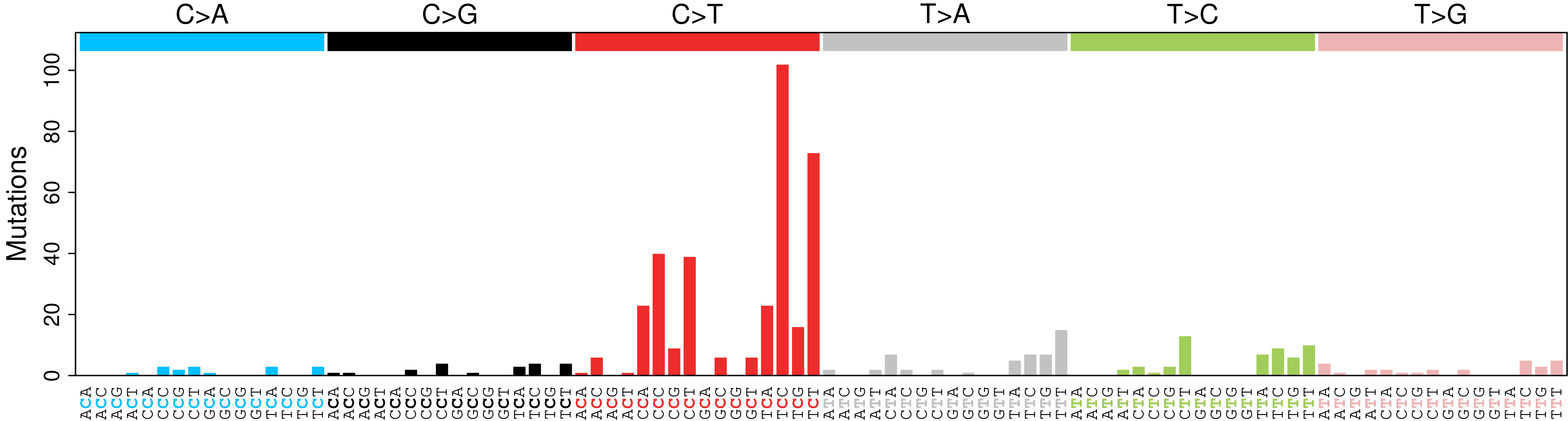
CATD0120a (654 mutations)

Reconstructed spectrum (cosine similarity = 0.991)

Signature A (0.016) Signature B (0.984)
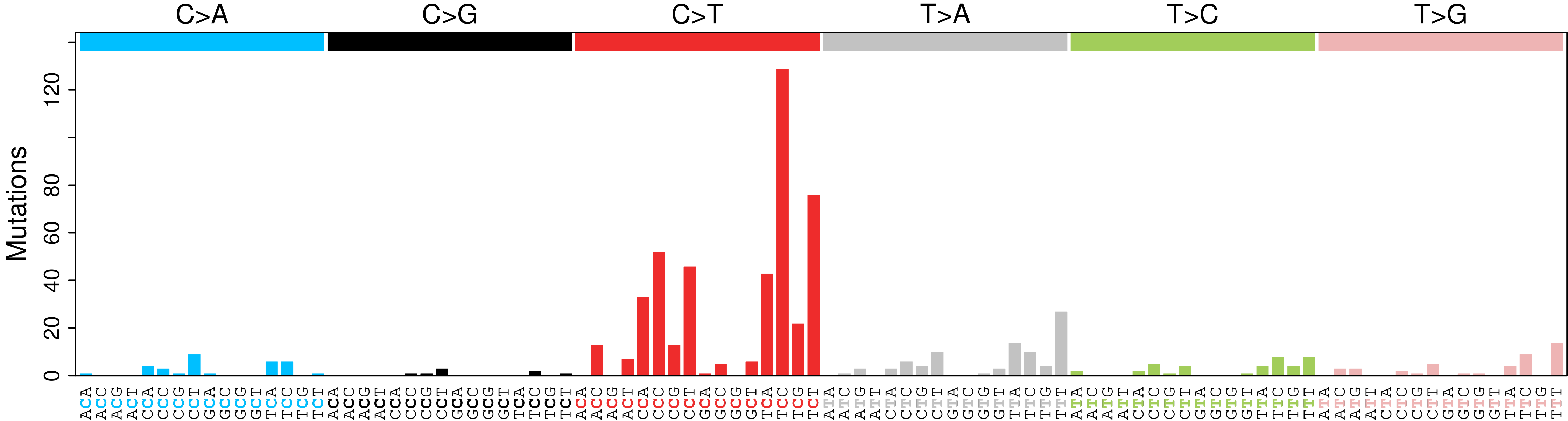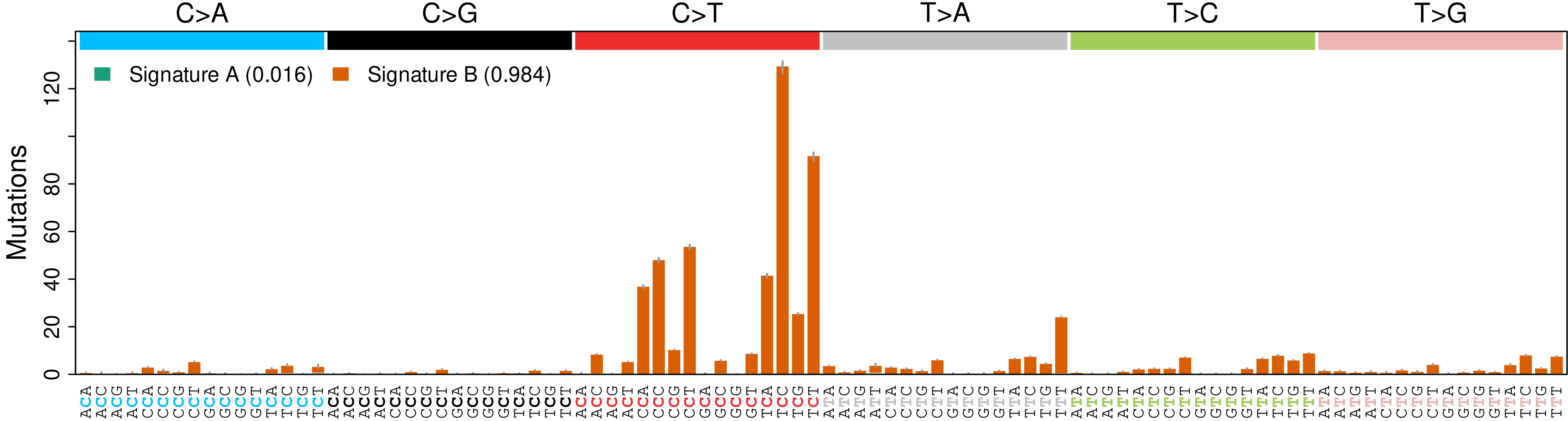
CATD247a (513 mutations)

Reconstructed spectrum (cosine similarity = 0.991)

Signature A (0.023)   Signature B (0.977)
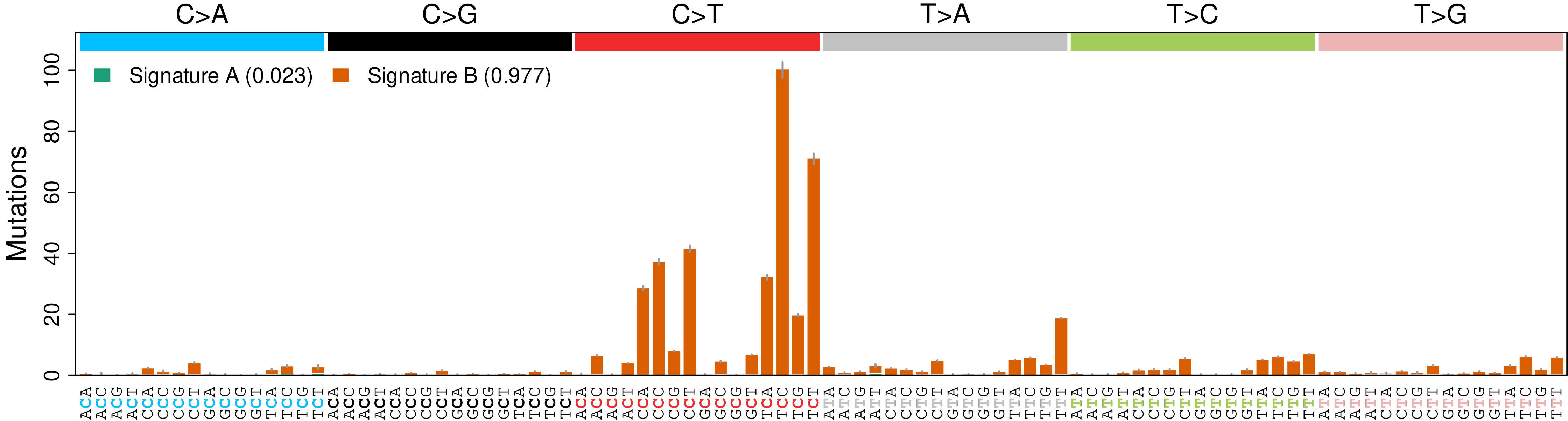
CATD260a (388 mutations)

Reconstructed spectrum (cosine similarity = 0.969)

Signature A (0.115)   Signature B (0.885)
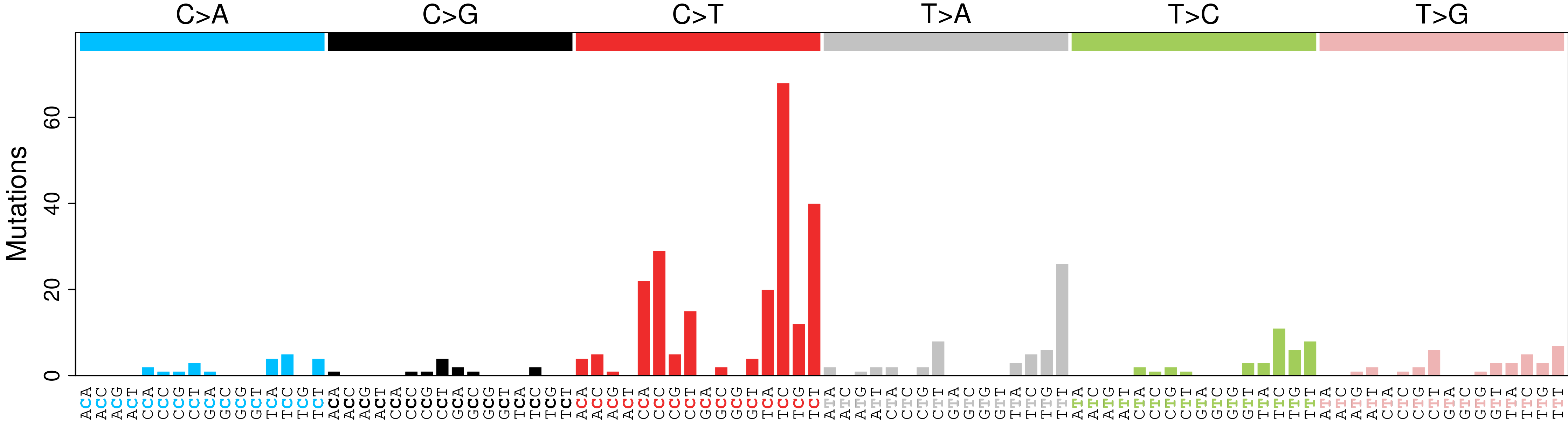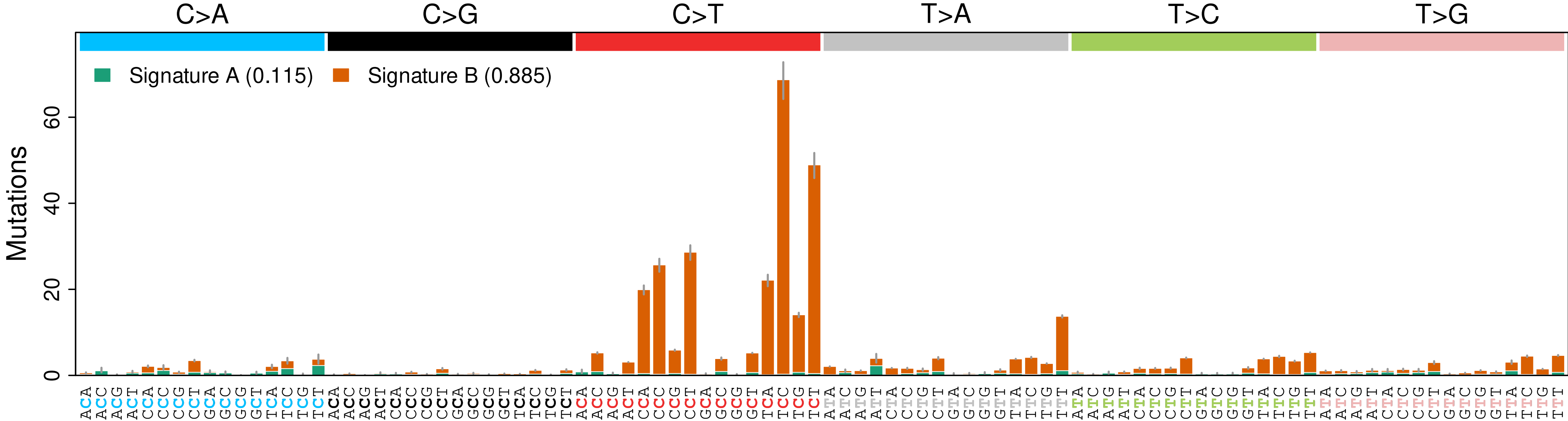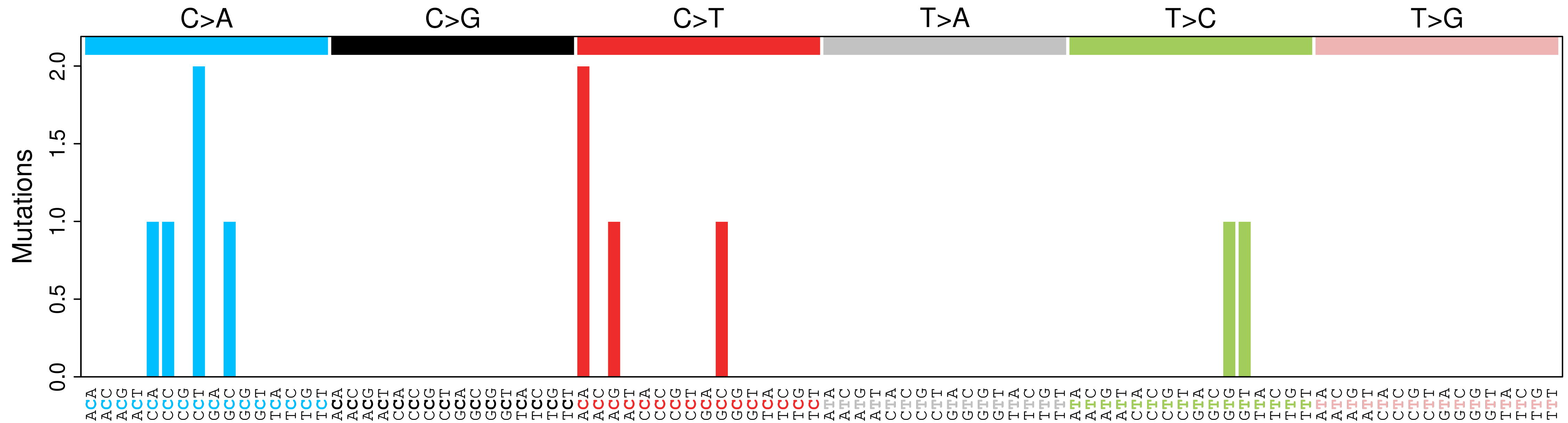
CATD246a (369 mutations)

Reconstructed spectrum (cosine similarity = 0.987)

Signature A (0.071)   Signature B (0.929)
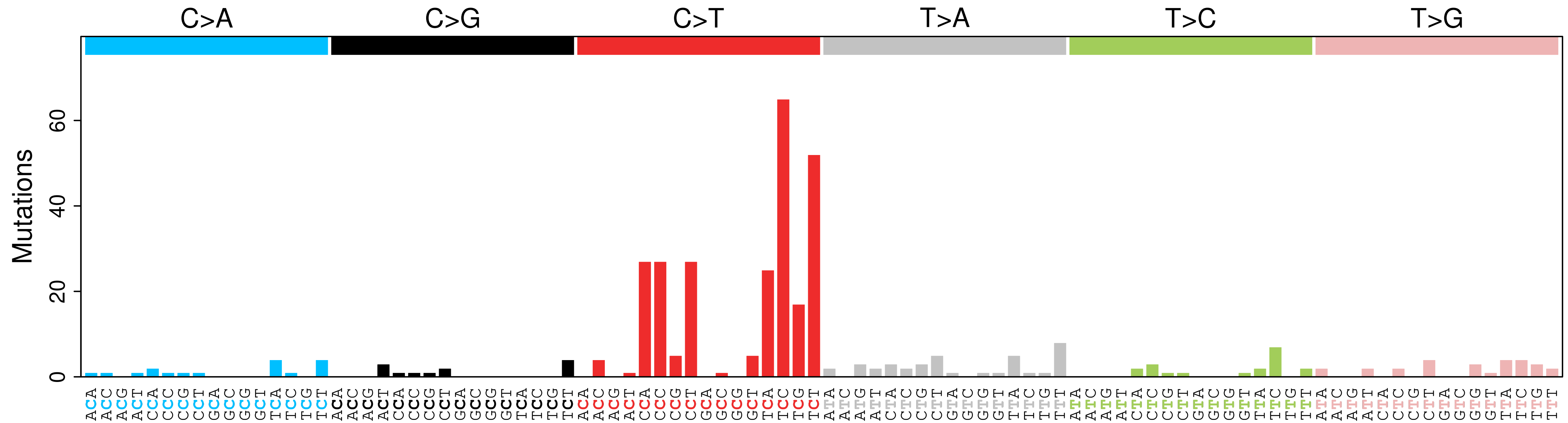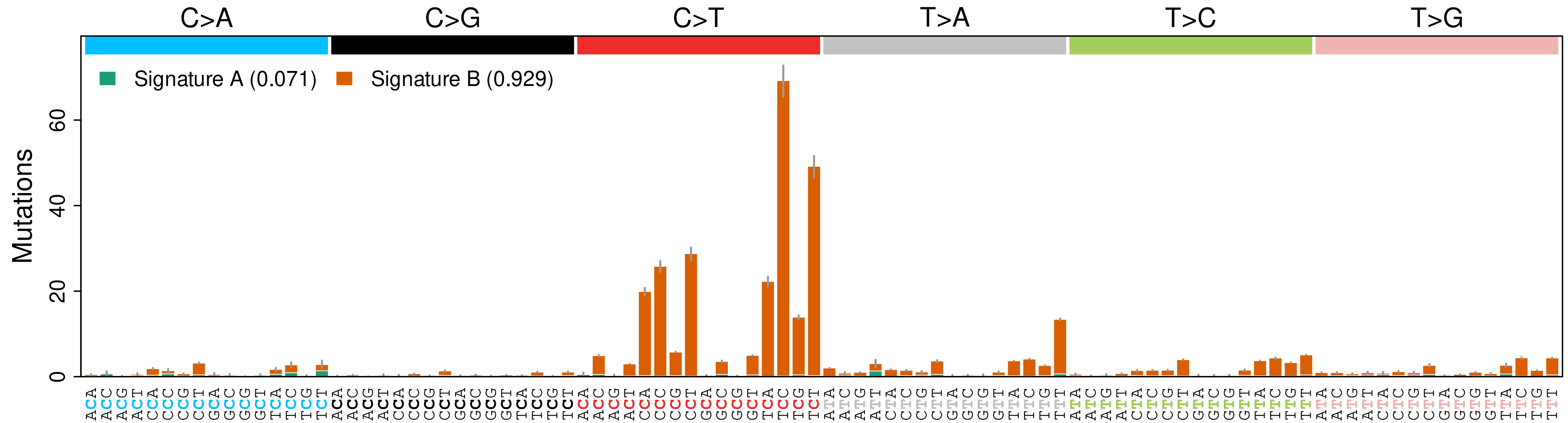
CATD279a (11 mutations)

Reconstructed spectrum (cosine similarity = 0.31)

Signature A (0.905)   Signature B (0.095)

CATD261a (85 mutations)

Reconstructed spectrum (cosine similarity = 0.875)

Signature A (0.14)　Signature B (0.86)
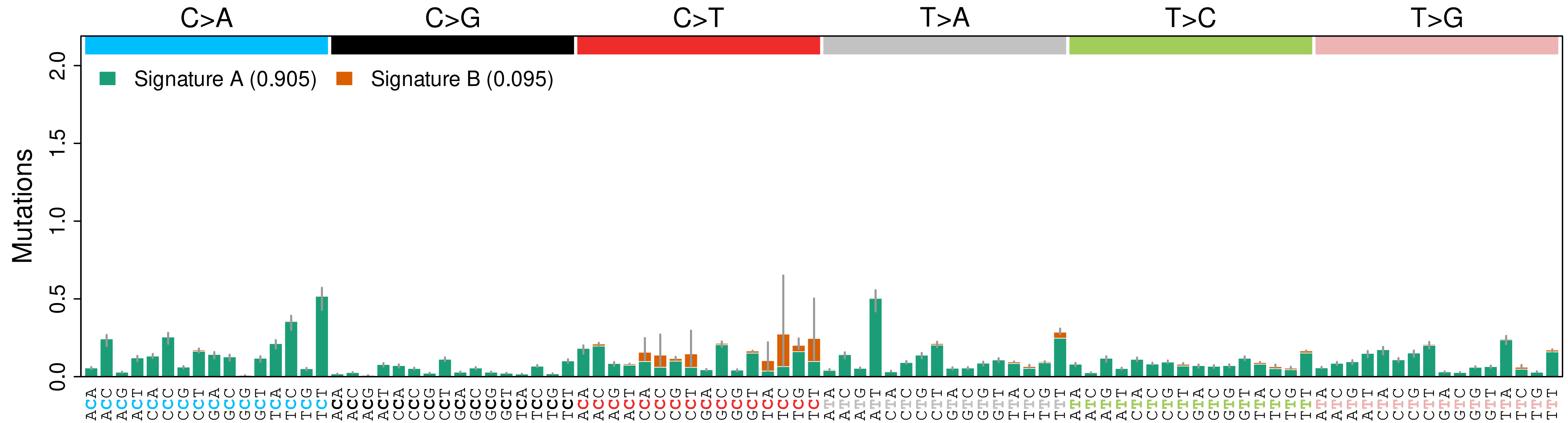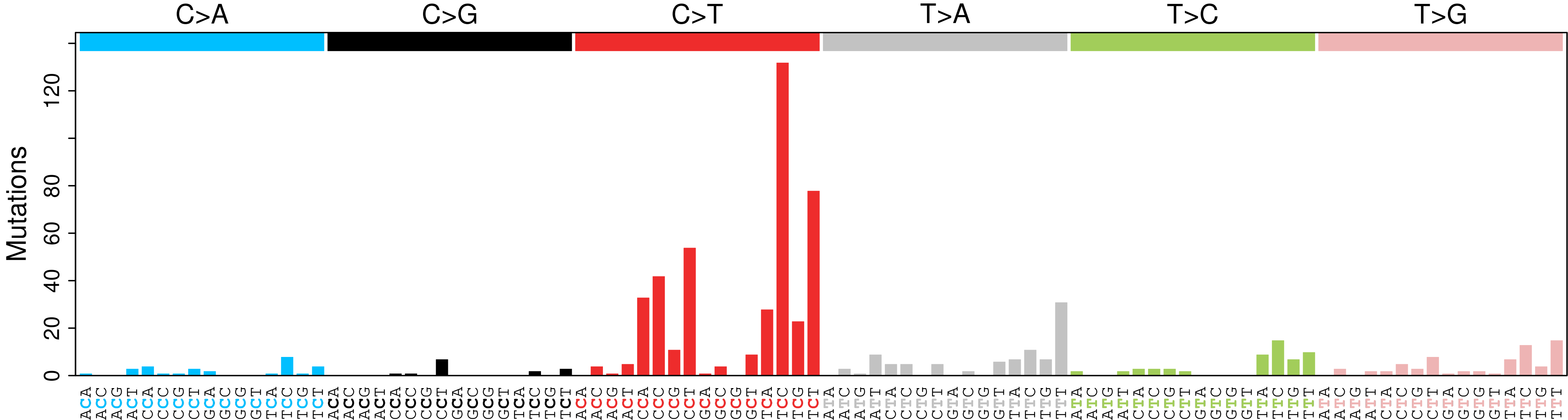
CATD280a (84 mutations)

Reconstructed spectrum (cosine similarity = 0.949)

Signature A (0.045)   Signature B (0.955)
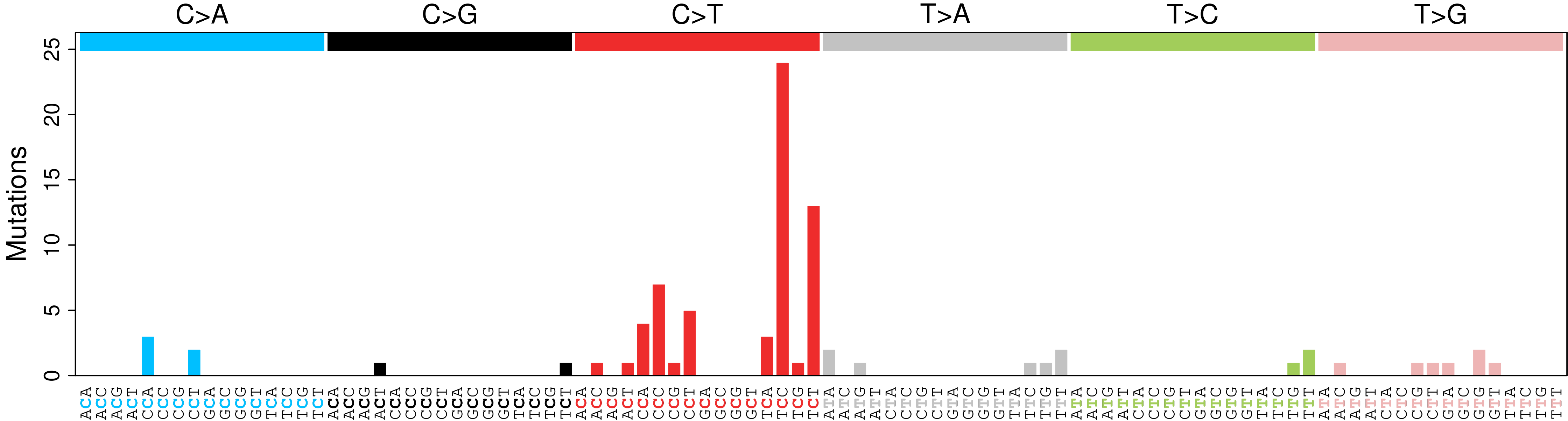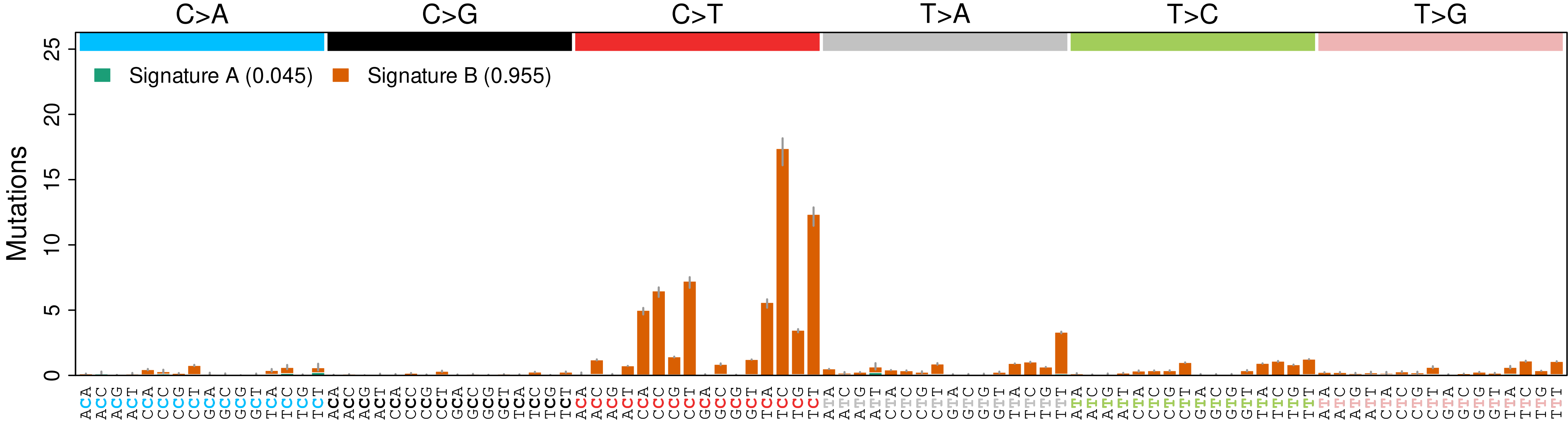
CATD272a (684 mutations)

Reconstructed spectrum (cosine similarity = 0.989)

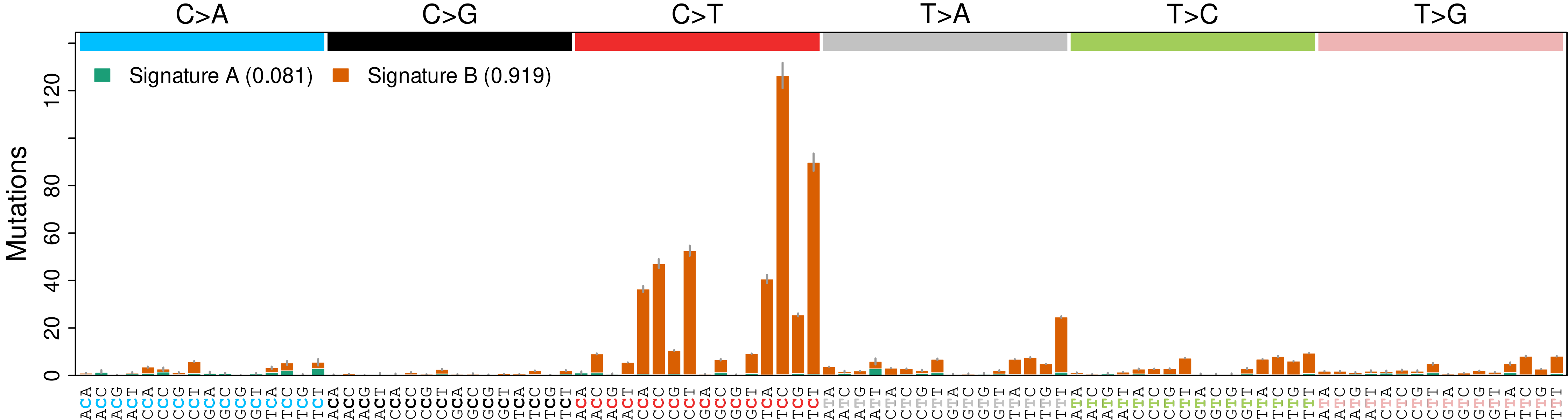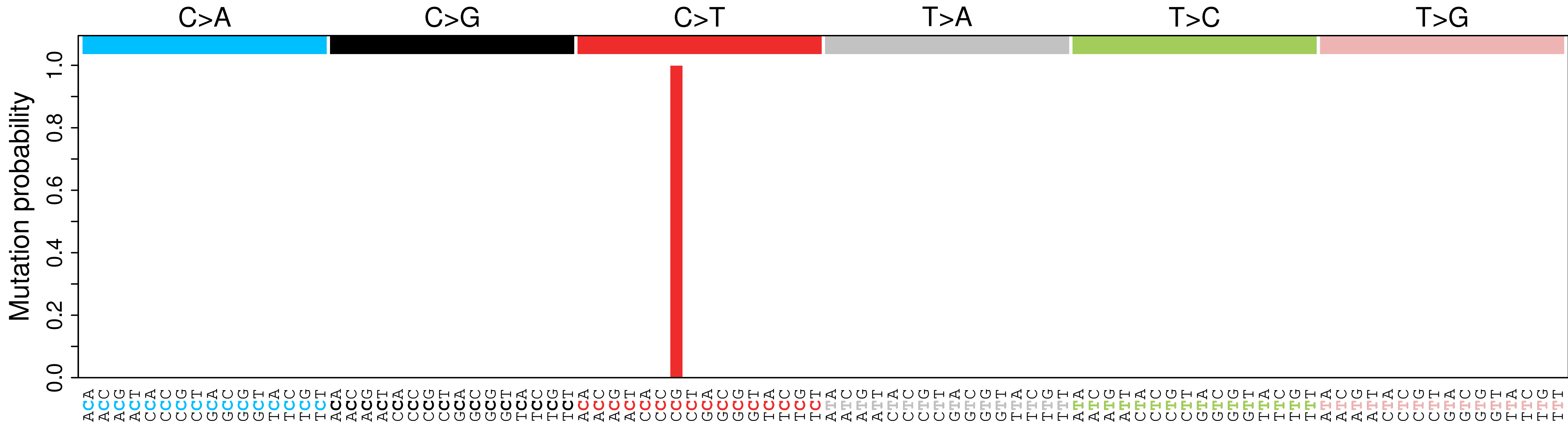Signature A (0.081) Signature B (0.919)
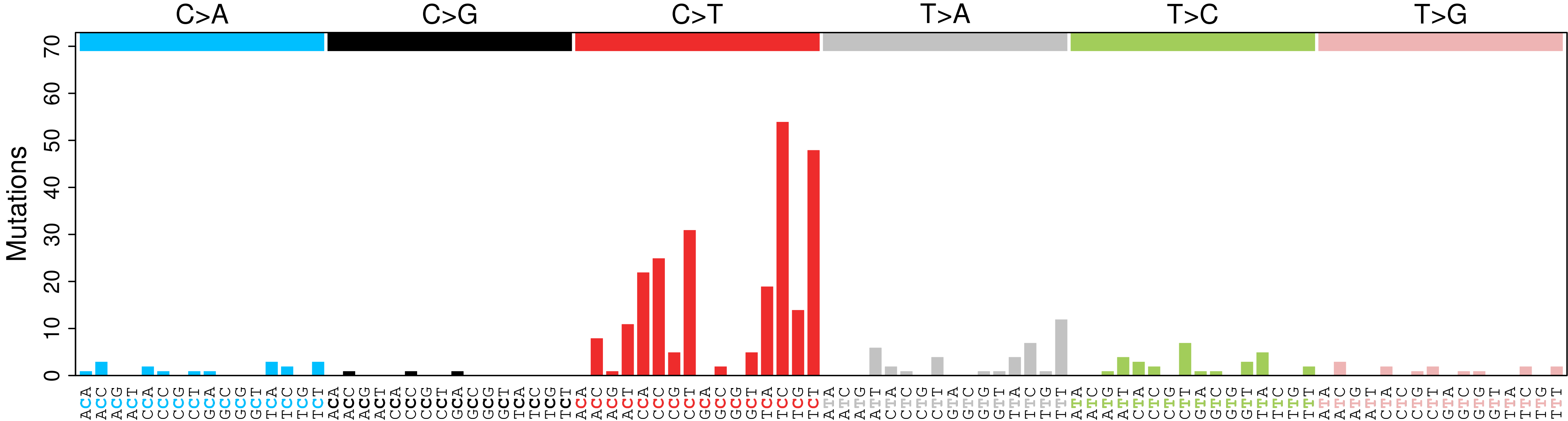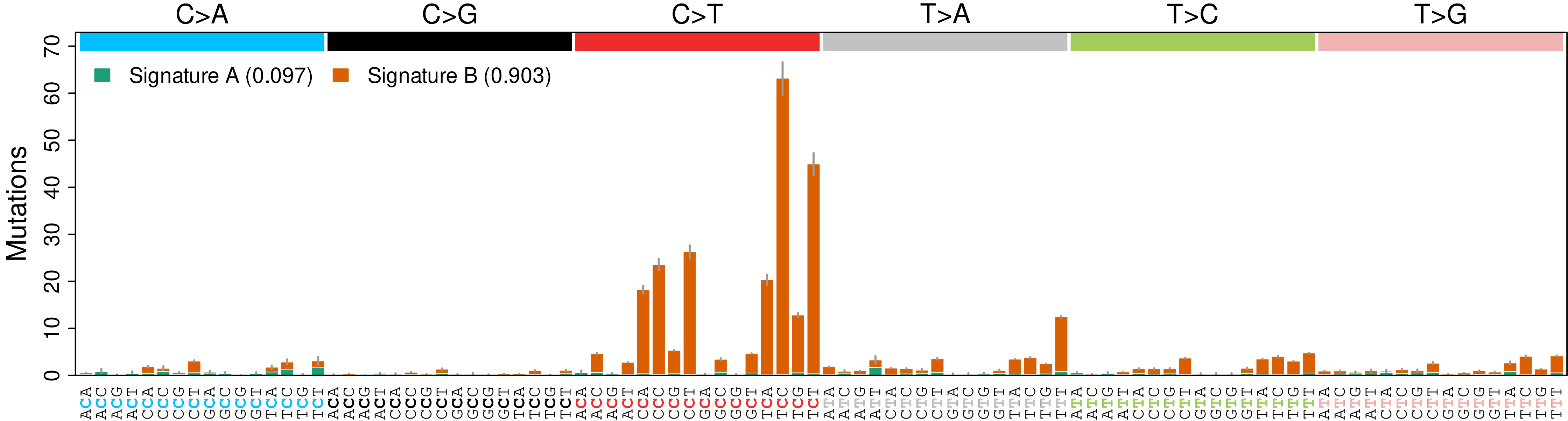
CATD275a

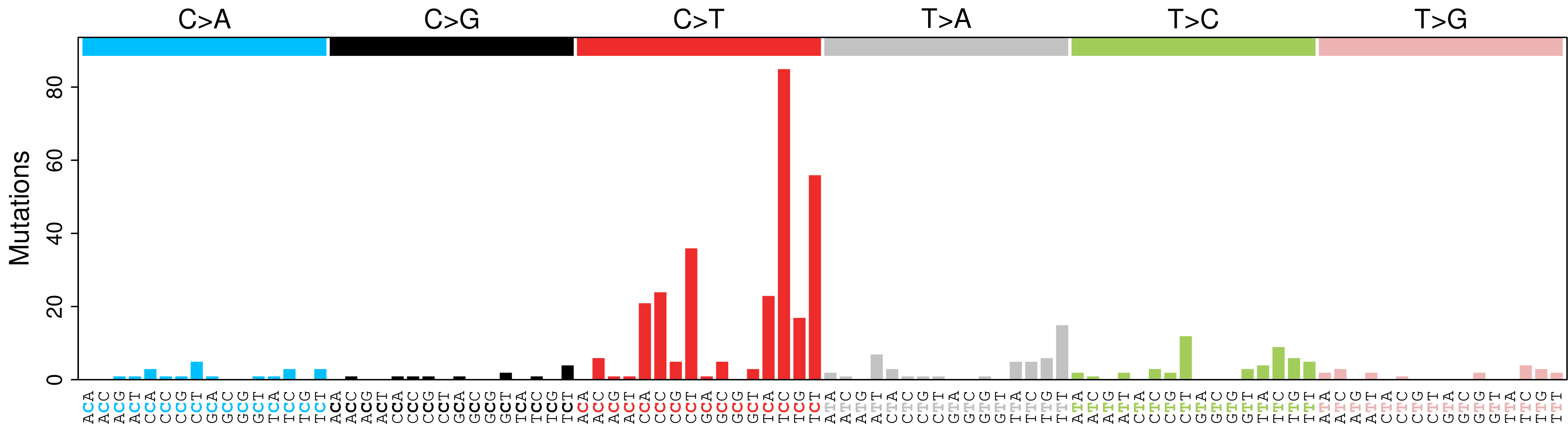Reconstructed spectrum (cosine similarity = 0.072)
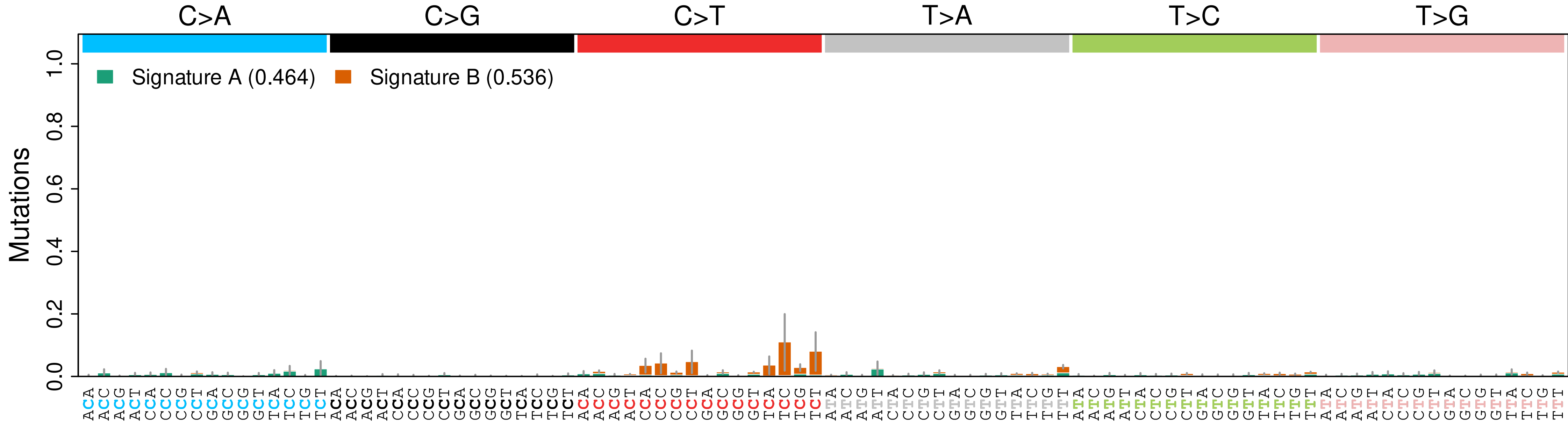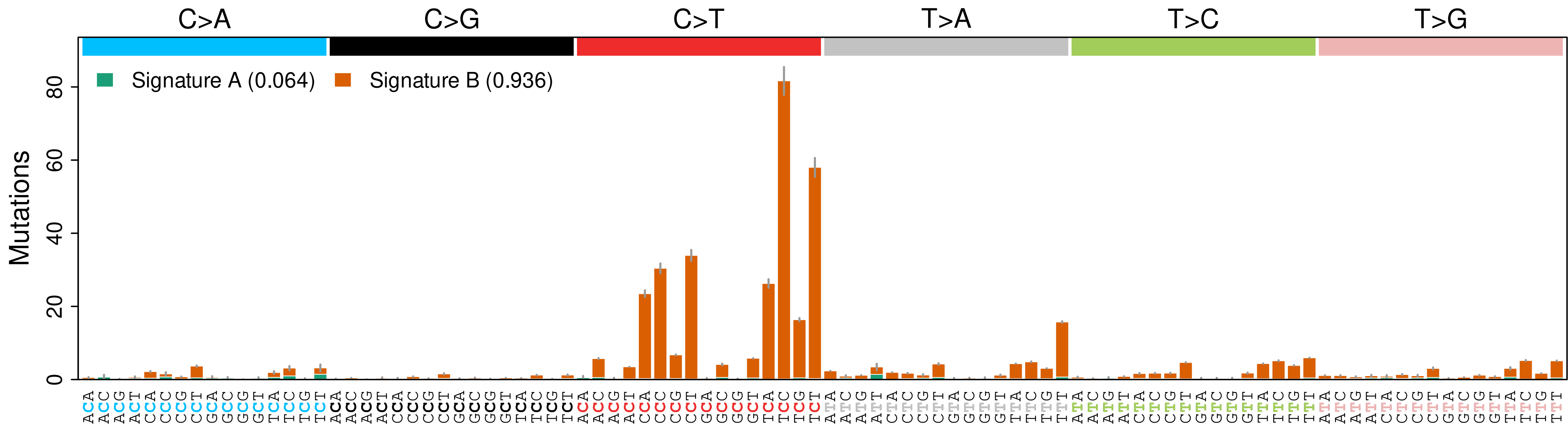
CATD276a (347 mutations)

Reconstructed spectrum (cosine similarity = 0.979)

CATD0128a (433 mutations)
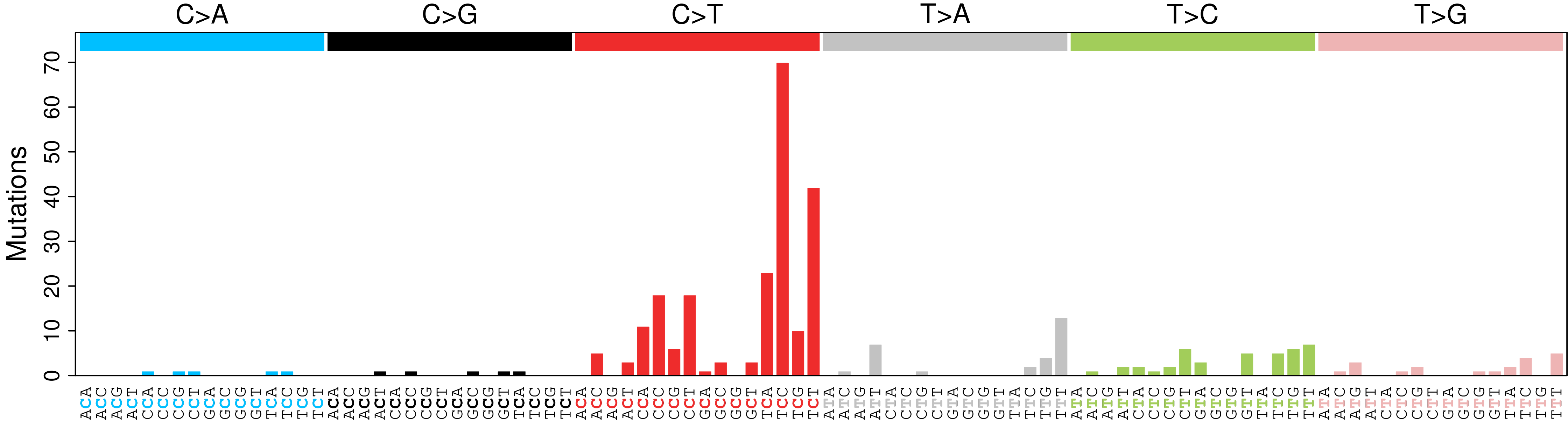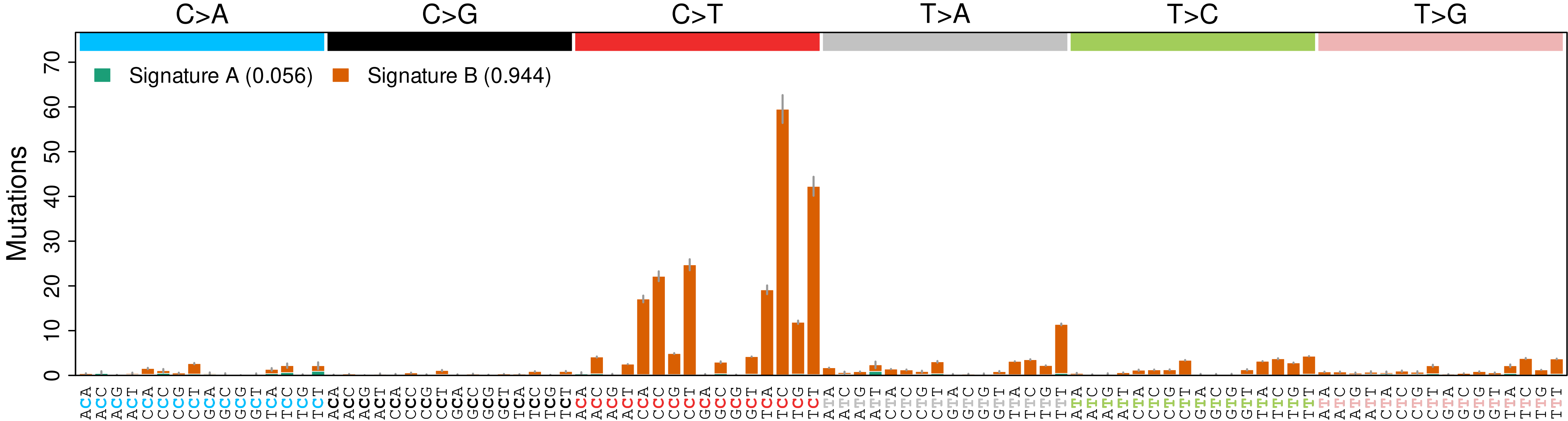
Reconstructed spectrum (cosine similarity = 0.99)
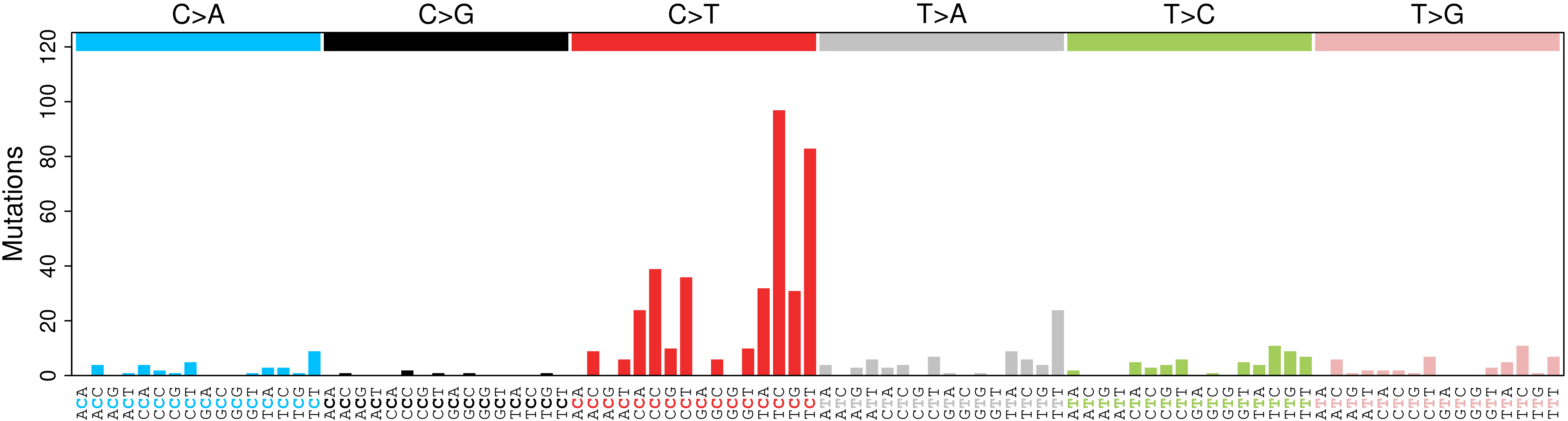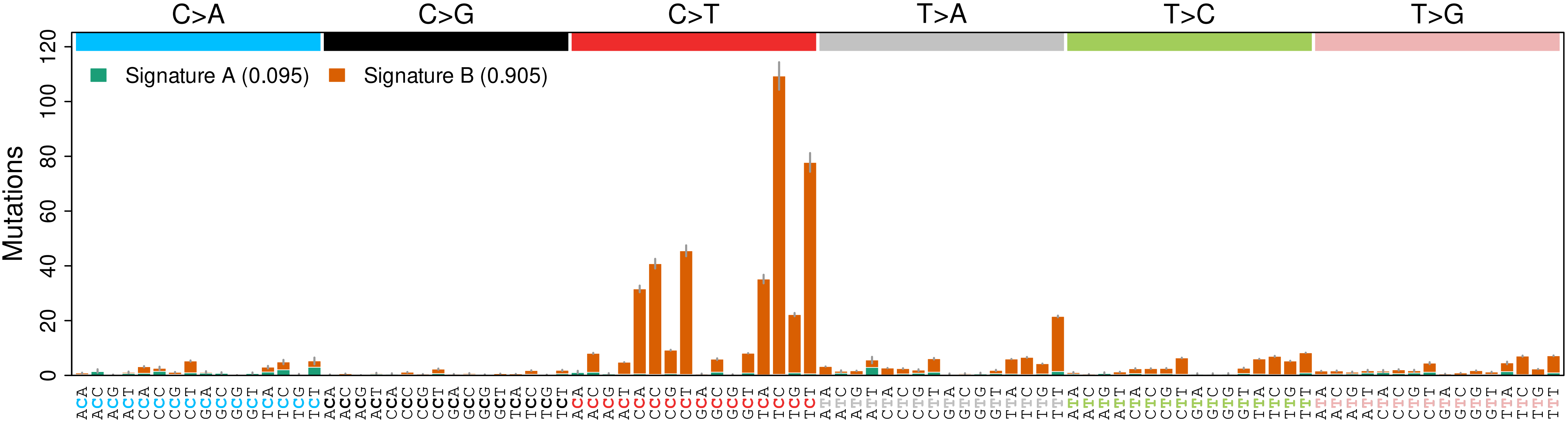
Signature A (0.064) Signature B (0.936)

CATD273a (311 mutations)

Reconstructed spectrum (cosine similarity = 0.978)

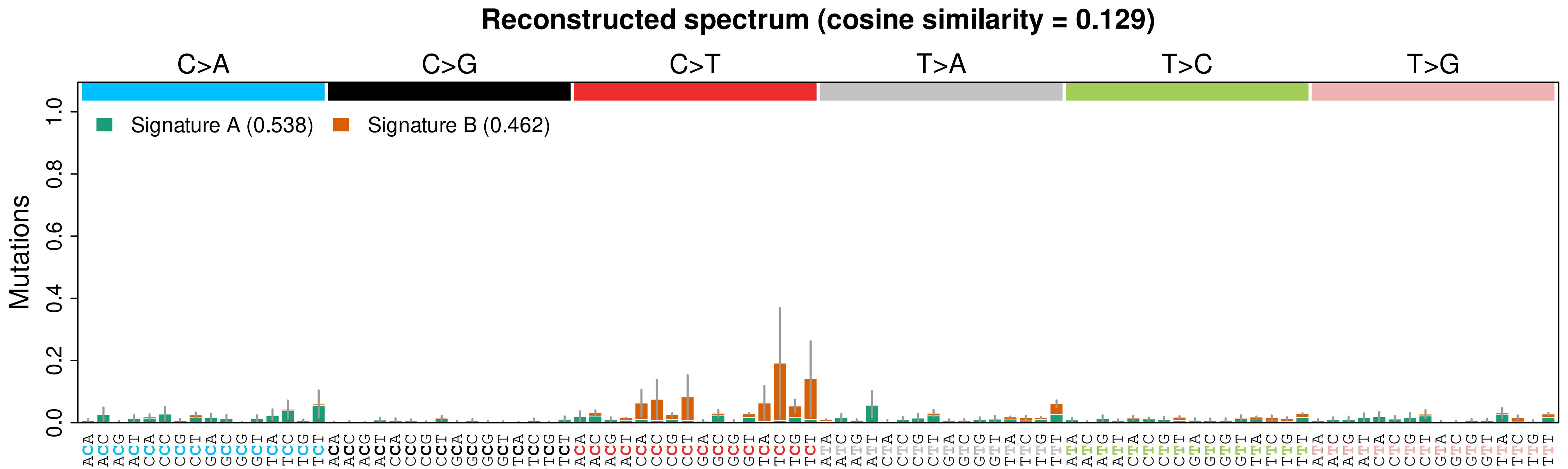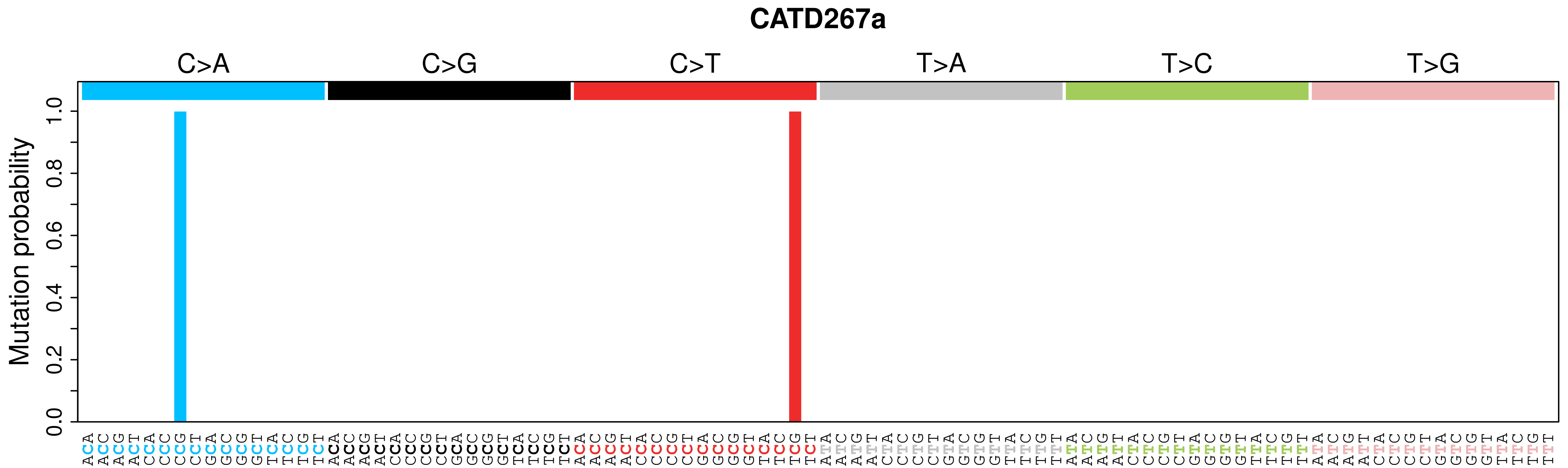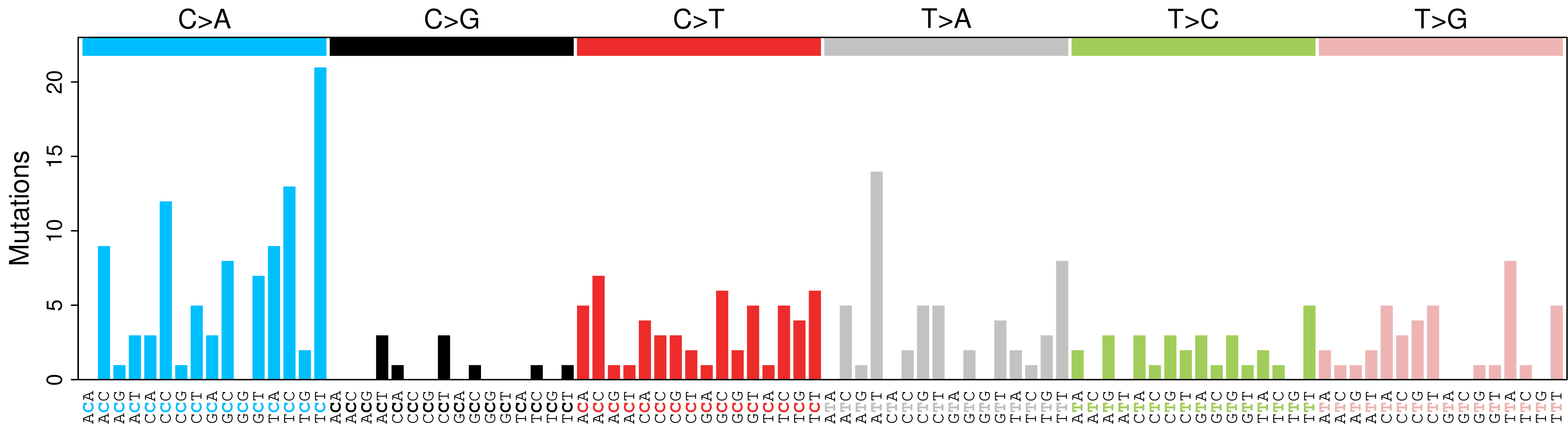Signature A (0.056)   Signature B (0.944)

CATD253a (600 mutations)
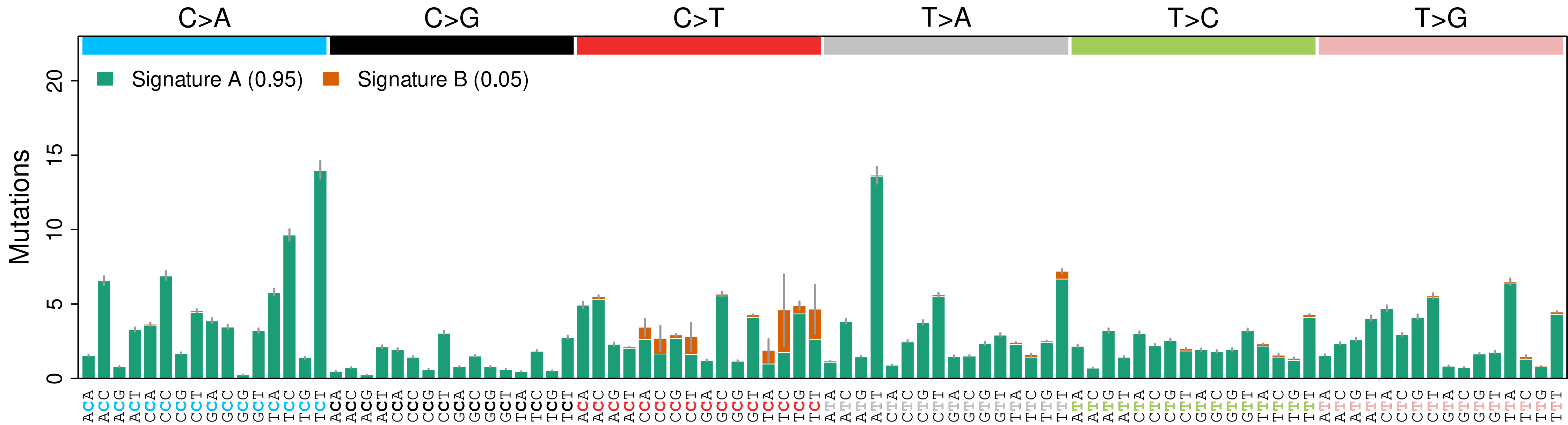
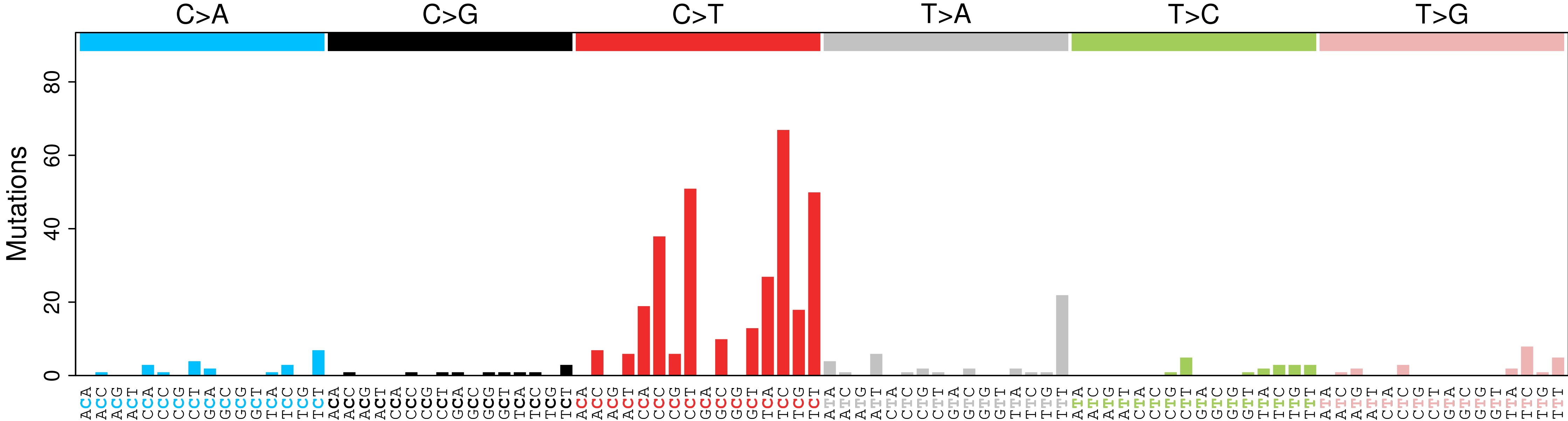Reconstructed spectrum (cosine similarity = 0.989)

CATD267a

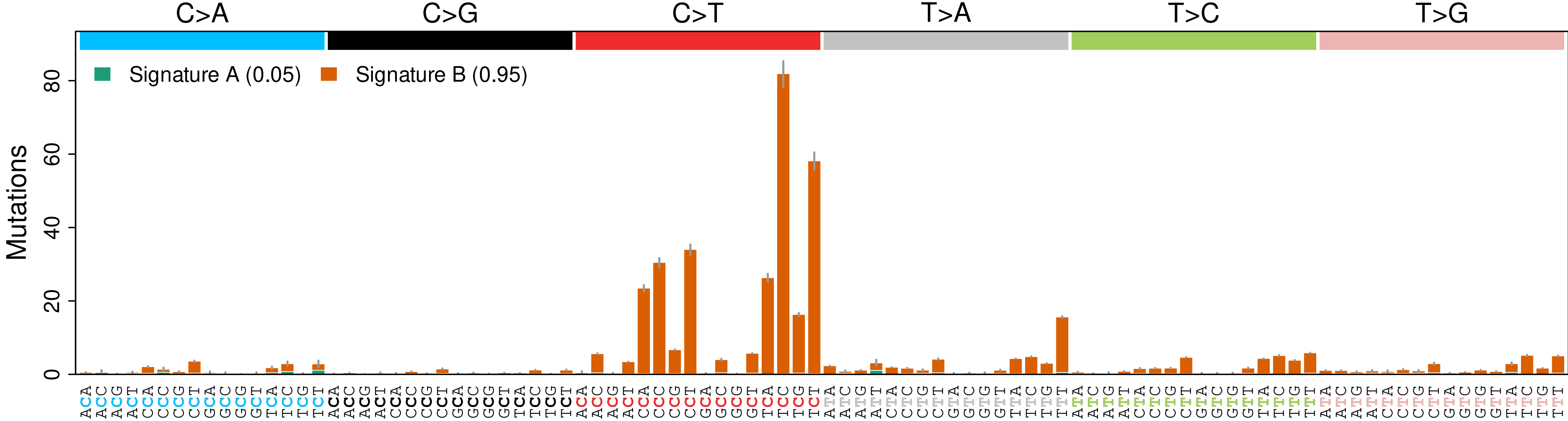**CATD186a (284 mutations)**

Reconstructed spectrum (cosine similarity = 0.954)

Signature A (0.95) Signature B (0.05)

CATD0632c (428 mutations)

Reconstructed spectrum (cosine similarity = 0.967)

Signature A (0.05) Signature B (0.95)

CATD0126a (104 mutations)

Reconstructed spectrum (cosine similarity = 0.922)

Signature A (0.177)   Signature B (0.823)

CATD274a (286 mutations)

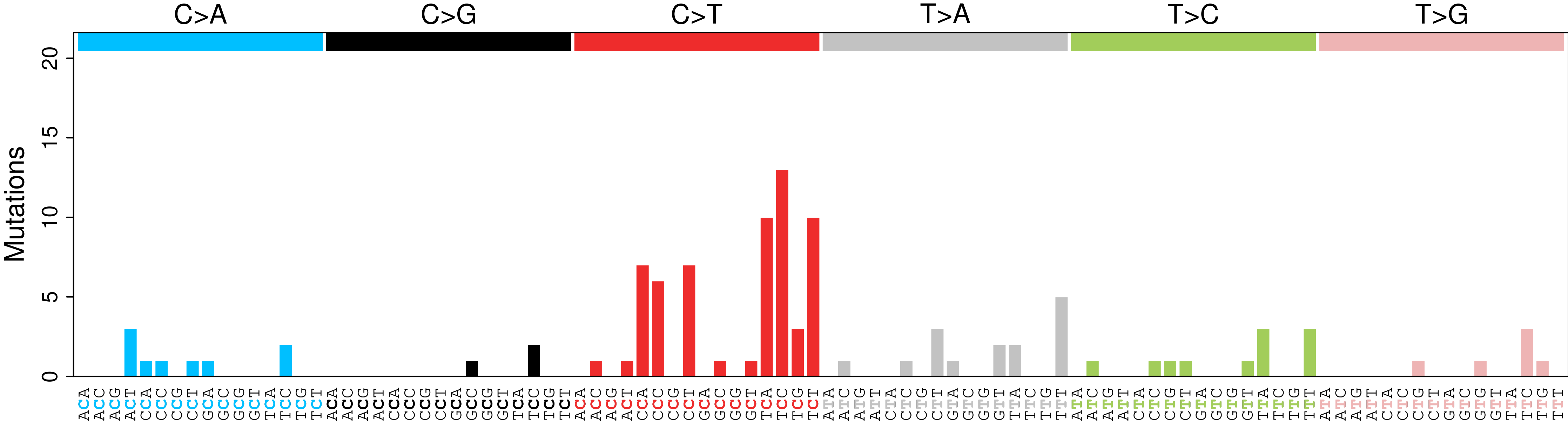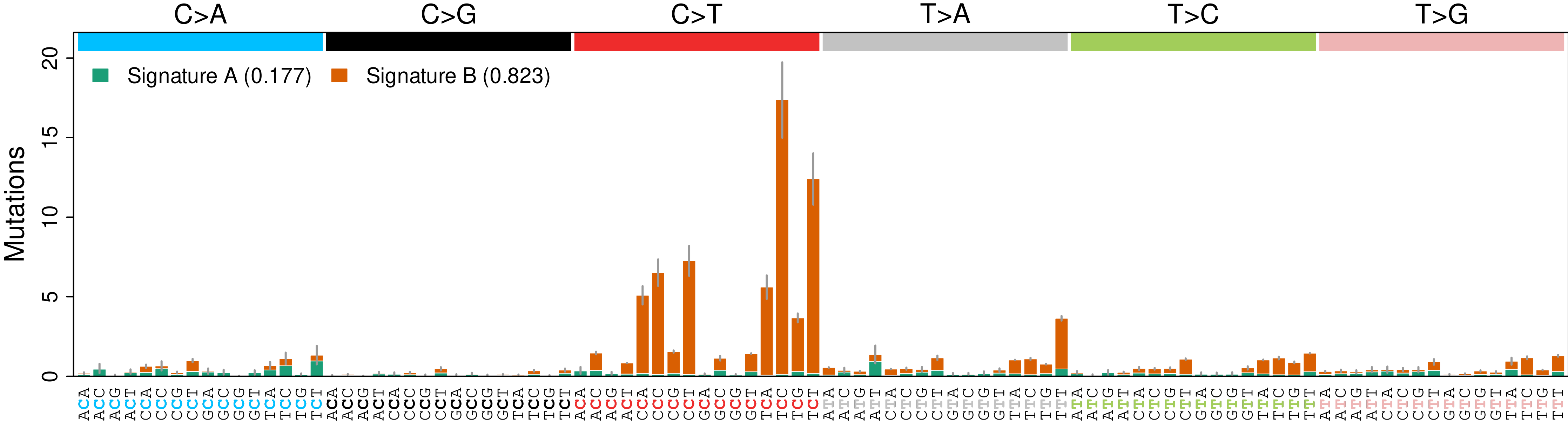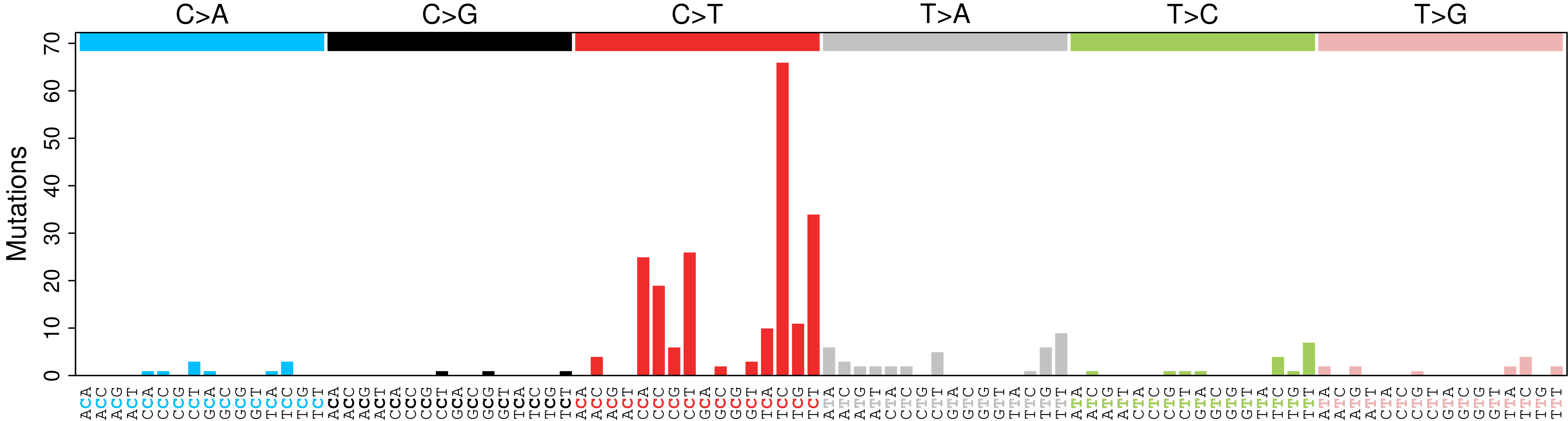Reconstructed spectrum (cosine similarity = 0.974)

Signature A (0.027)　　Signature B (0.973)

CATD278a (426 mutations)

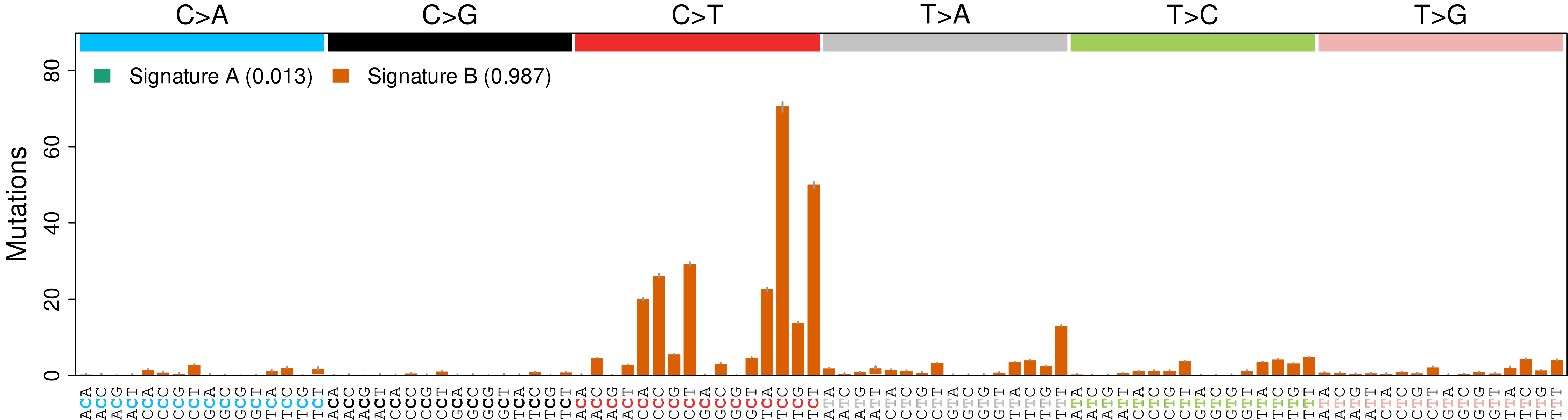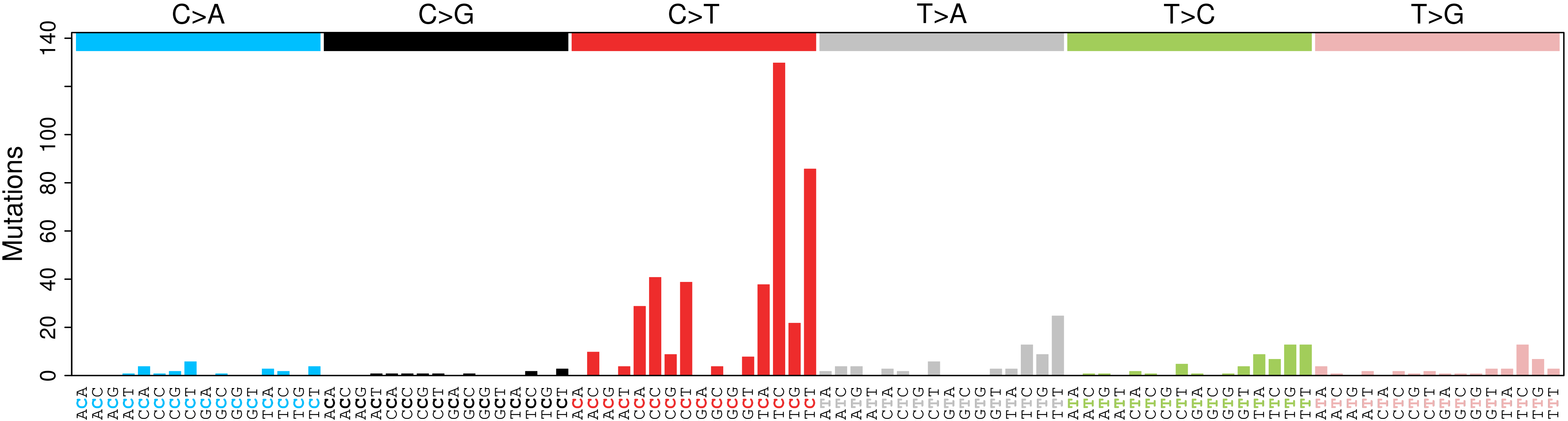**Reconstructed spectrum (cosine similarity = 0.991)**

Signature A (0.015)   Signature B (0.985)

CATD243a (359 mutations)

Reconstructed spectrum (cosine similarity = 0.99)

Signature A (0.013)   Signature B (0.987)

CATD265a (146 mutations)

Reconstructed spectrum (cosine similarity = 0.976)

Signature A (0.019)　Signature B (0.981)
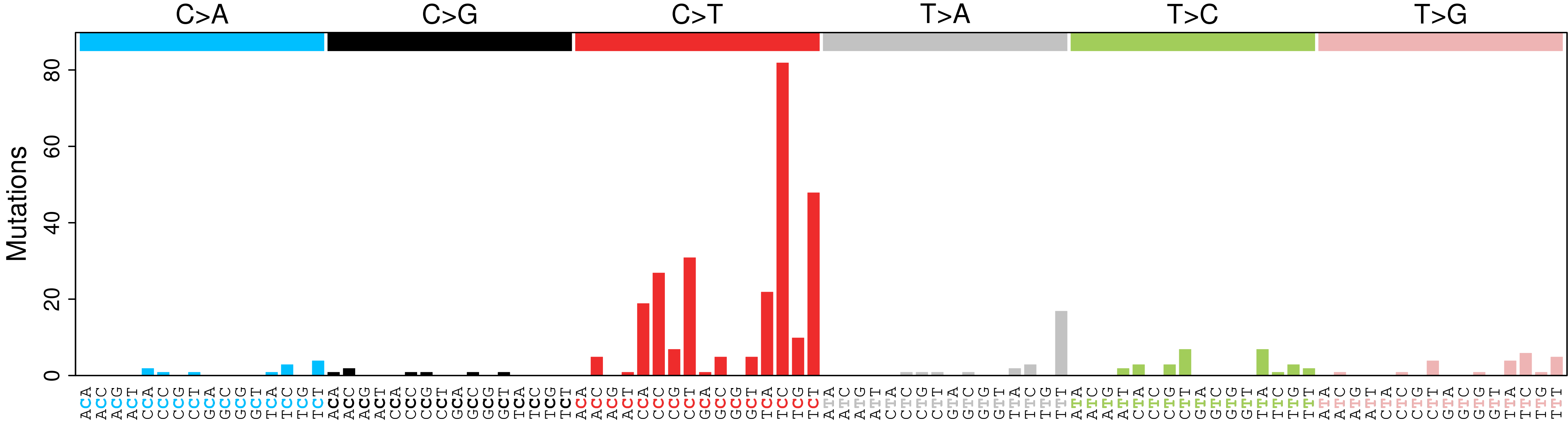
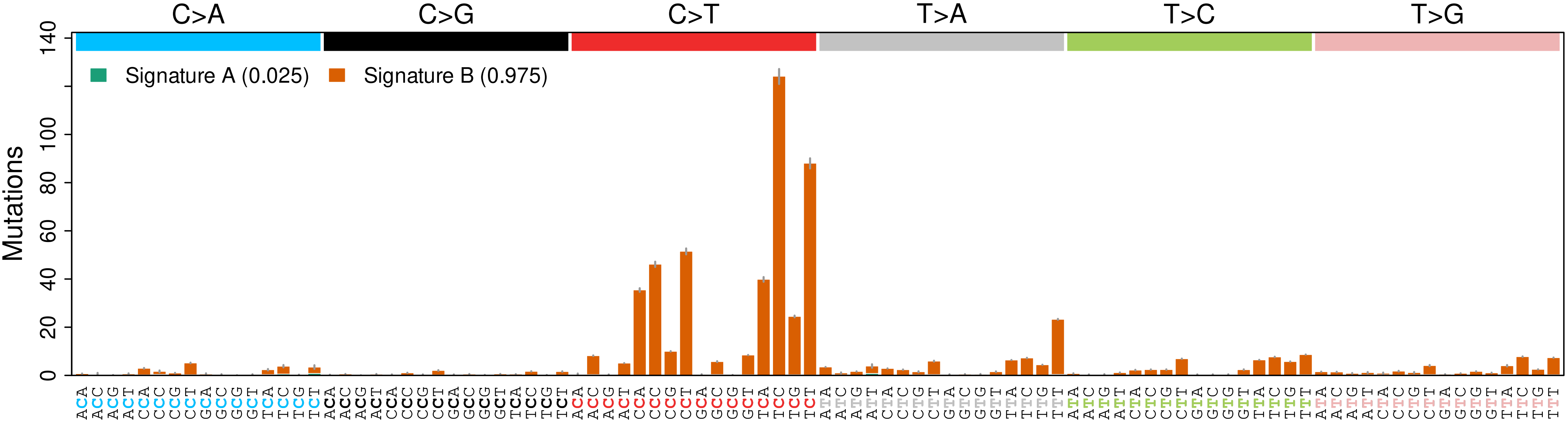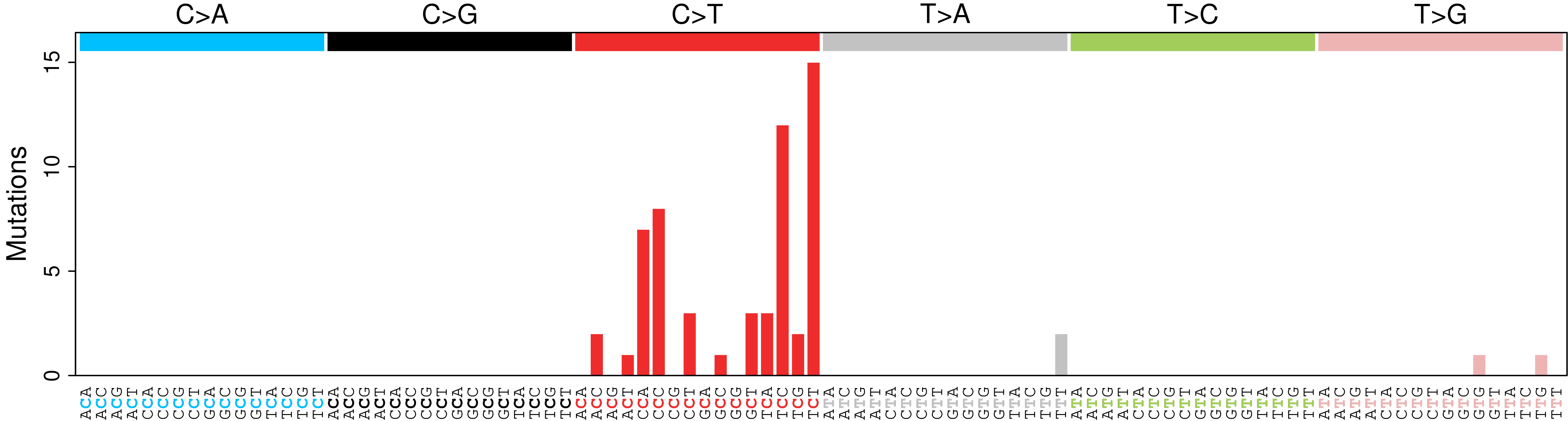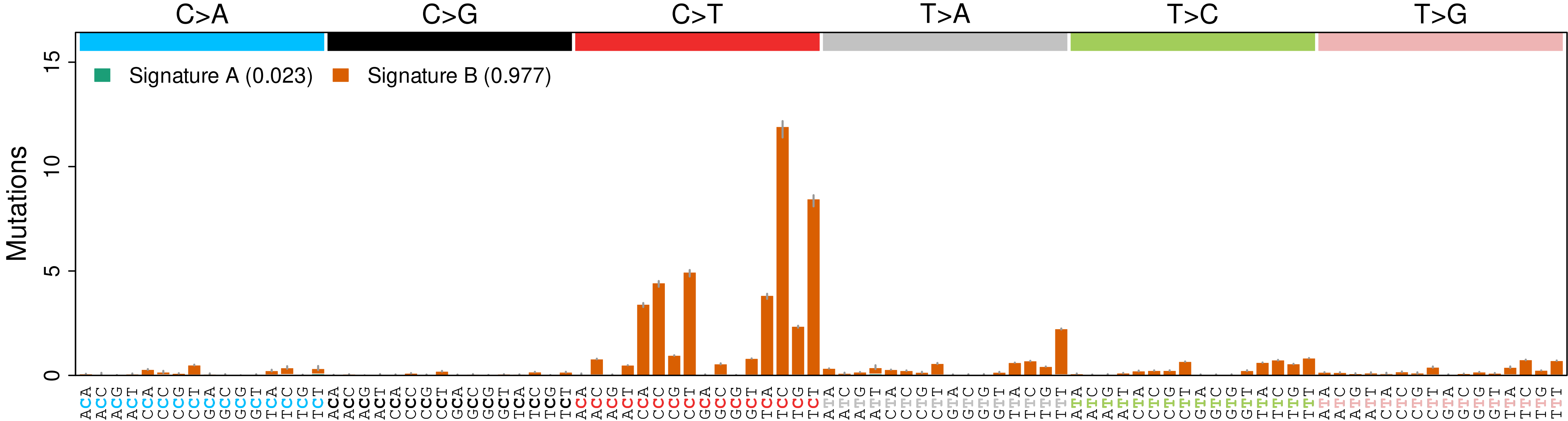**CATD264a (631 mutations)**

Reconstructed spectrum (cosine similarity = 0.991)

CATD0135a (61 mutations)

Reconstructed spectrum (cosine similarity = 0.927)
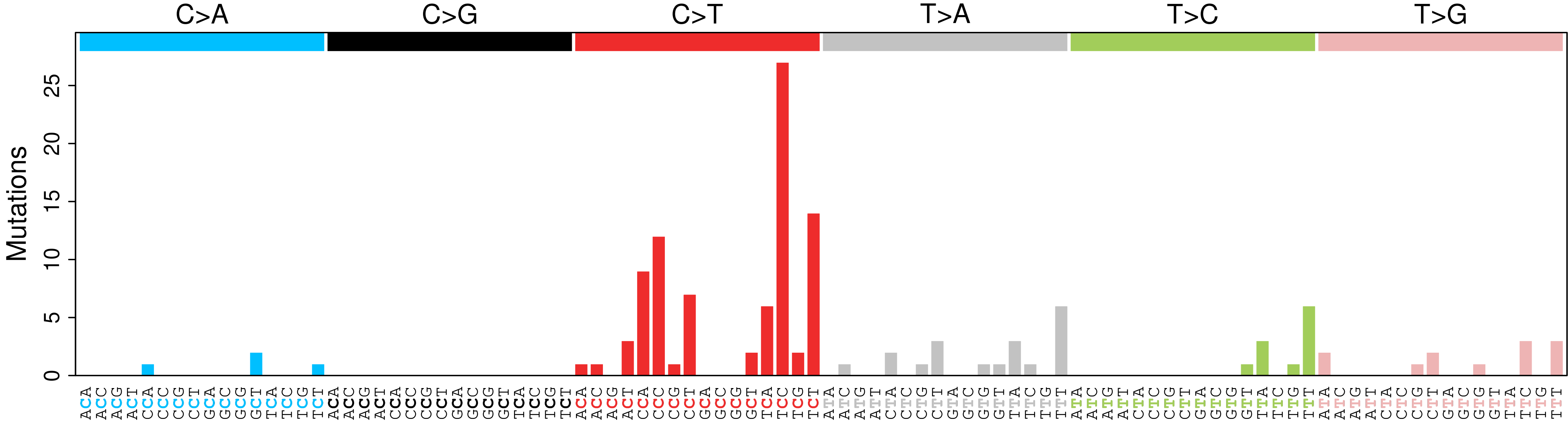
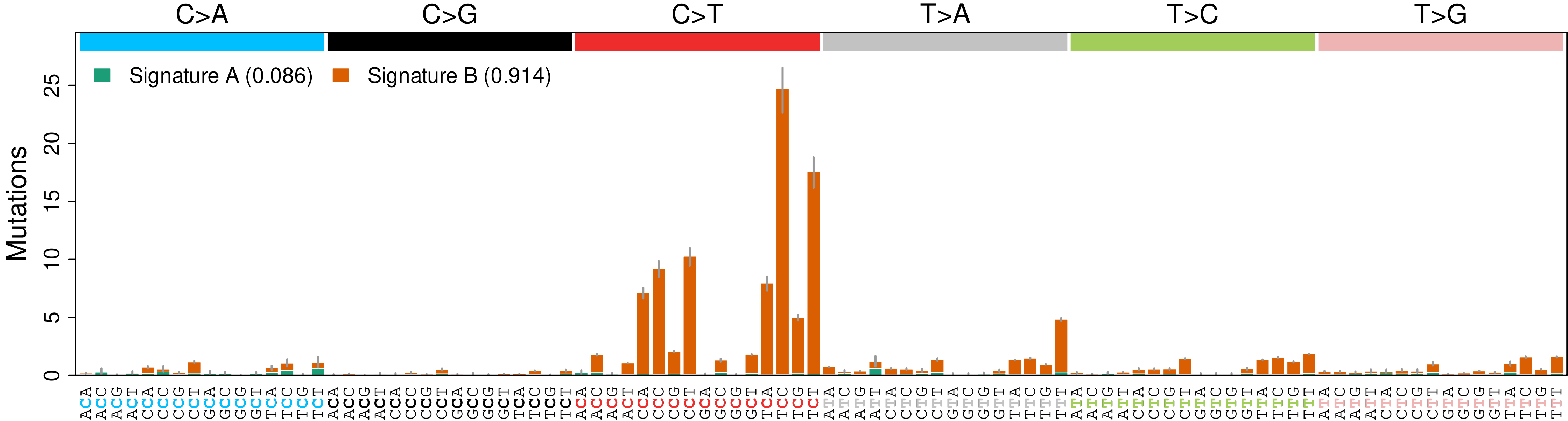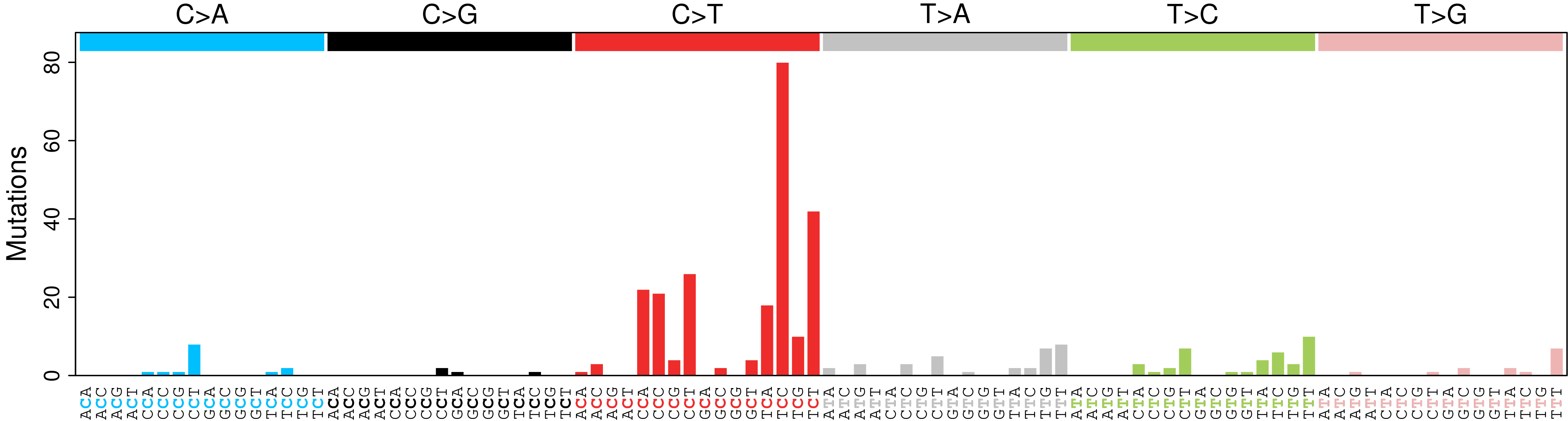Signature A (0.023)   Signature B (0.977)
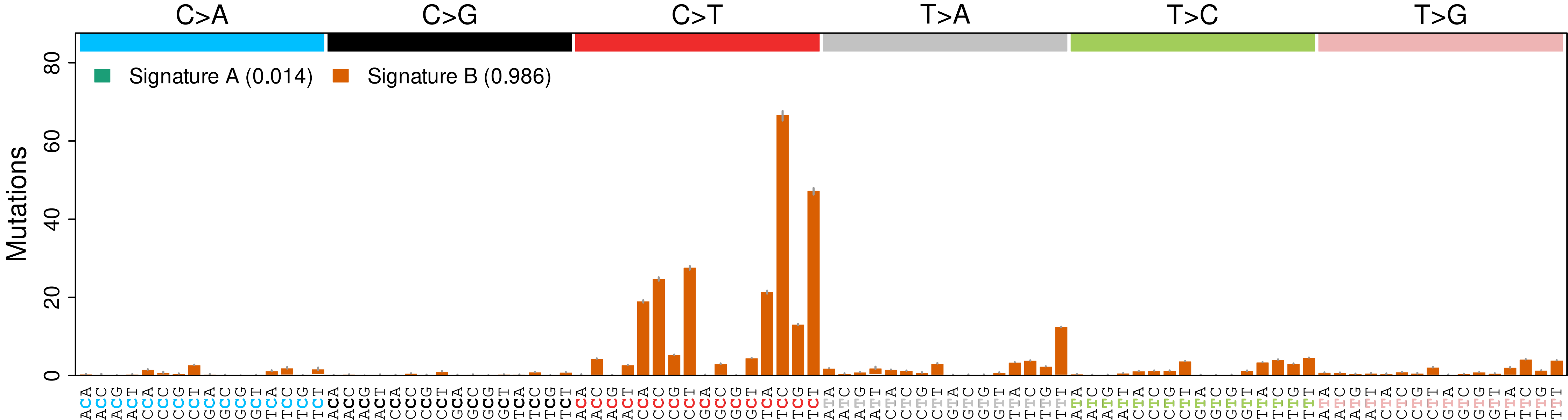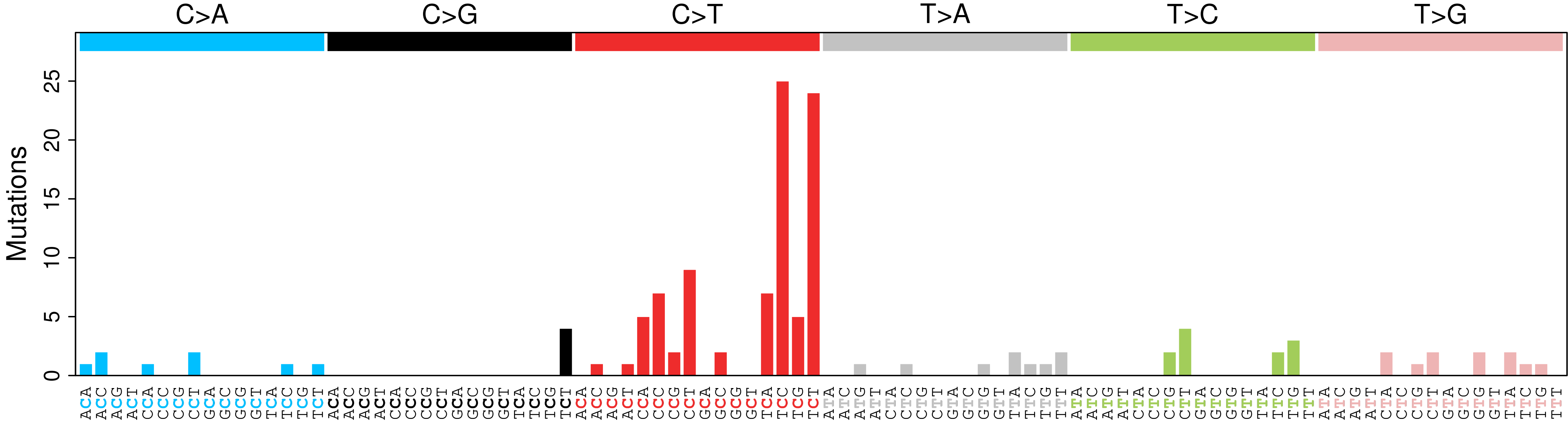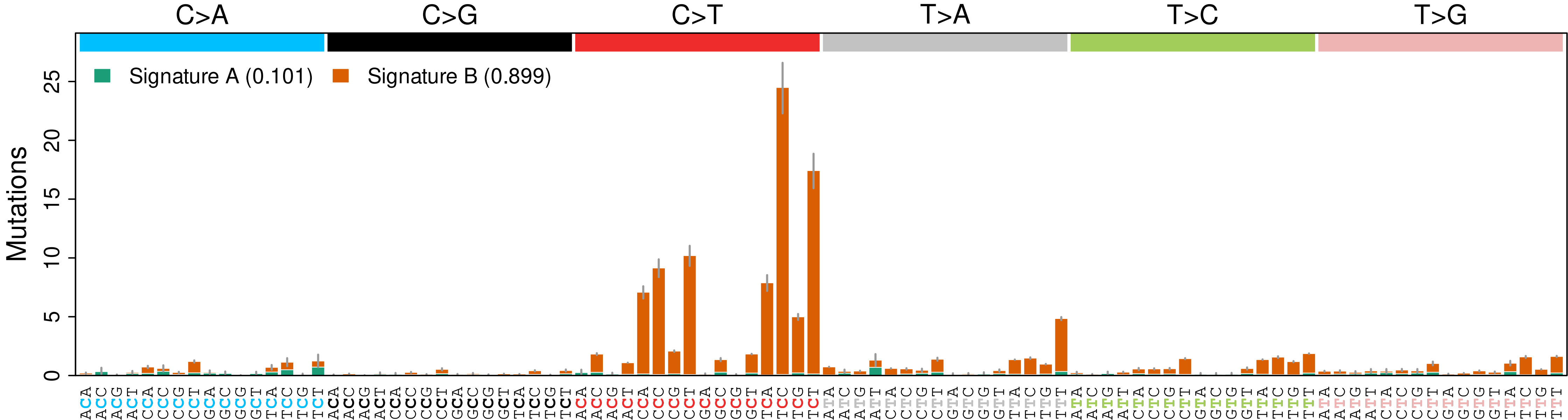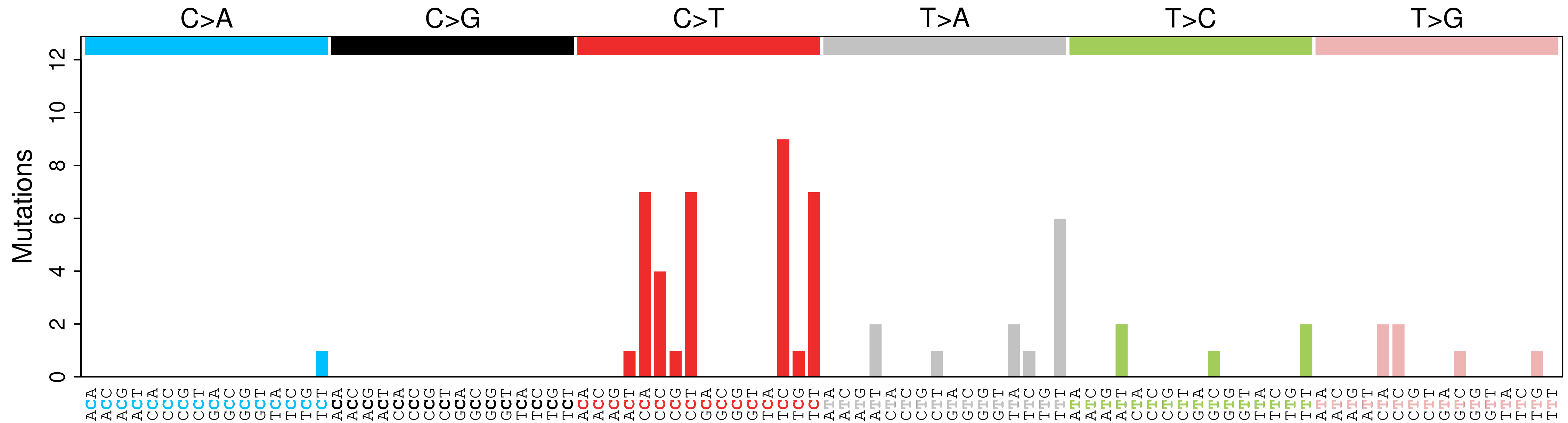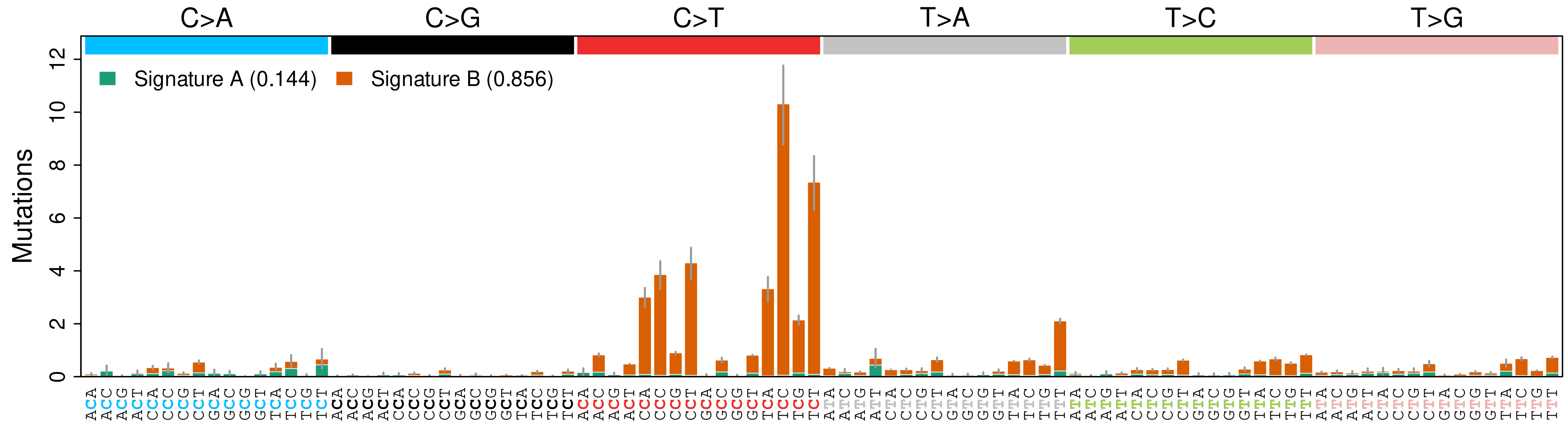
CATD282a (131 mutations)

Reconstructed spectrum (cosine similarity = 0.957)

CATD250a (336 mutations)

Reconstructed spectrum (cosine similarity = 0.98)

Signature A (0.014)   Signature B (0.986)

CATD263a (131 mutations)

Reconstructed spectrum (cosine similarity = 0.96)
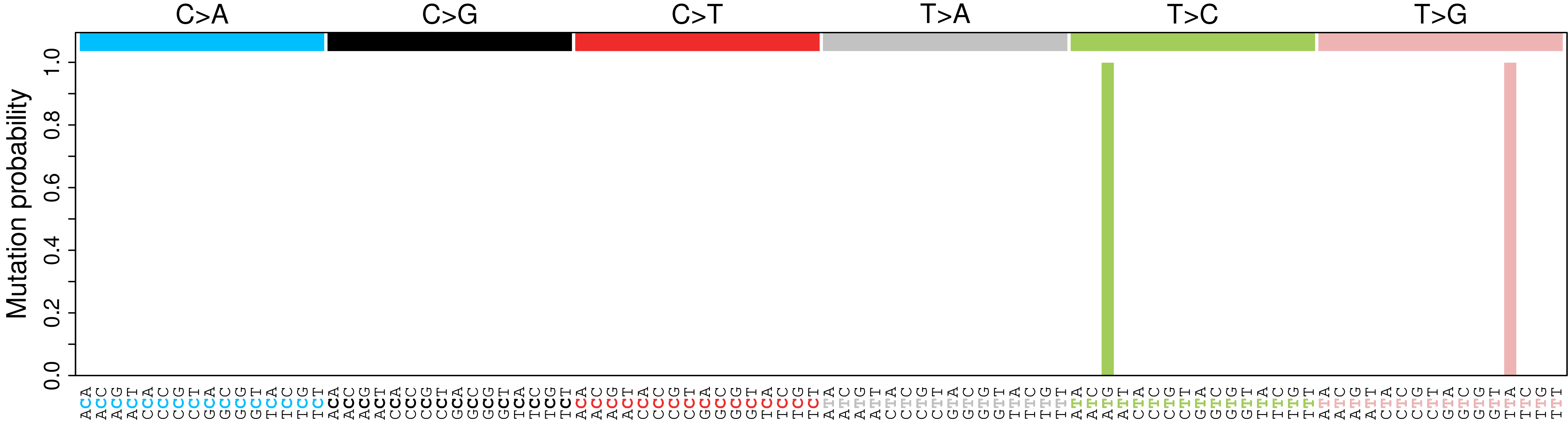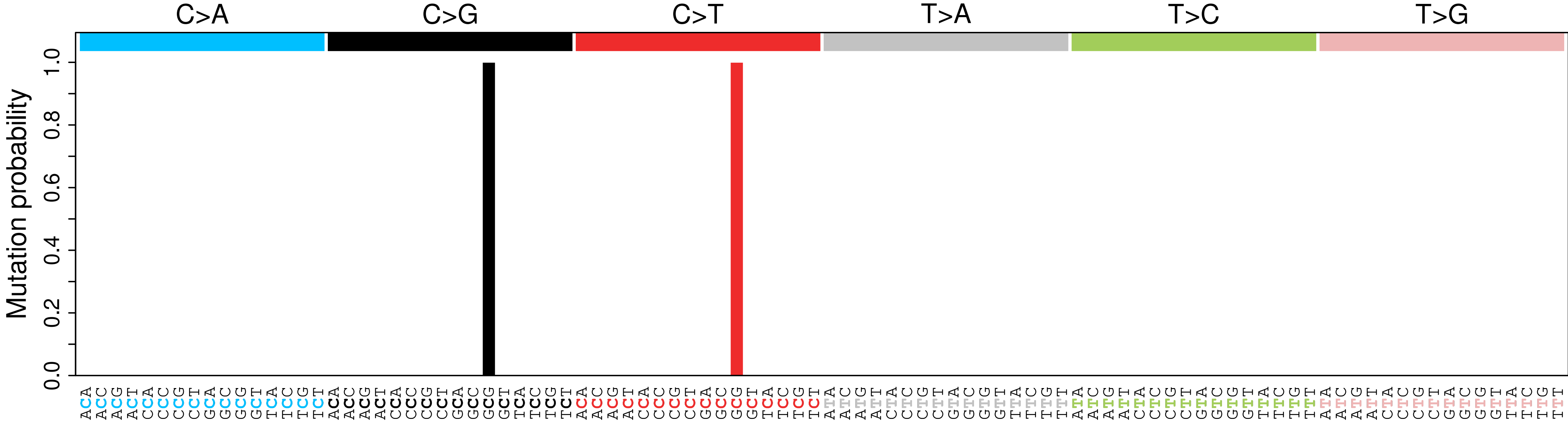
Signature A (0.101)   Signature B (0.899)

CATD254a (61 mutations)
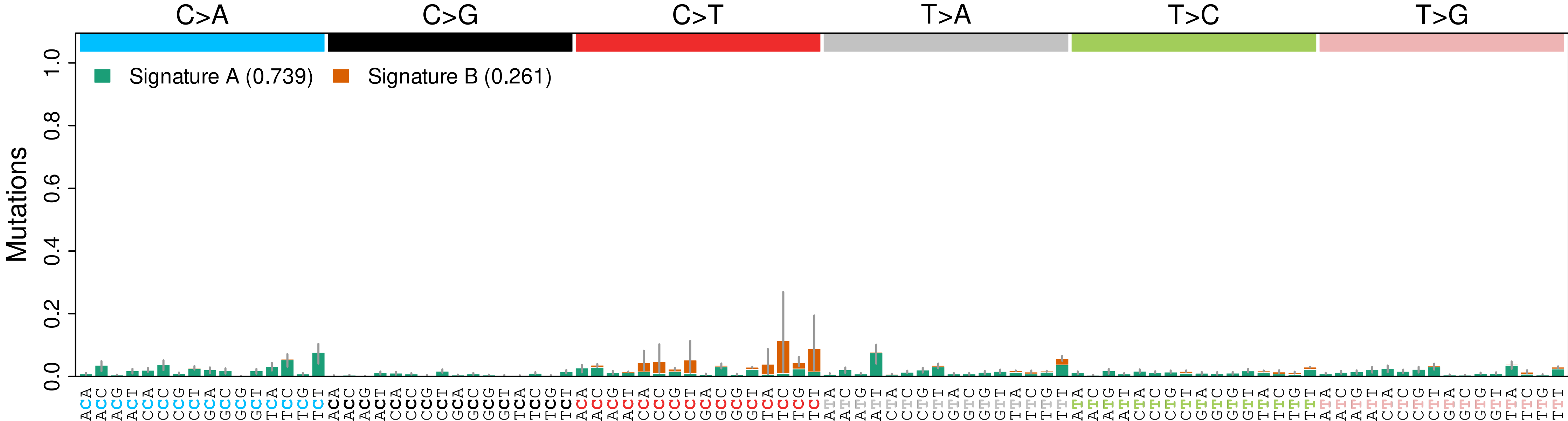
Reconstructed spectrum (cosine similarity = 0.867)

Signature A (0.144) Signature B (0.856)
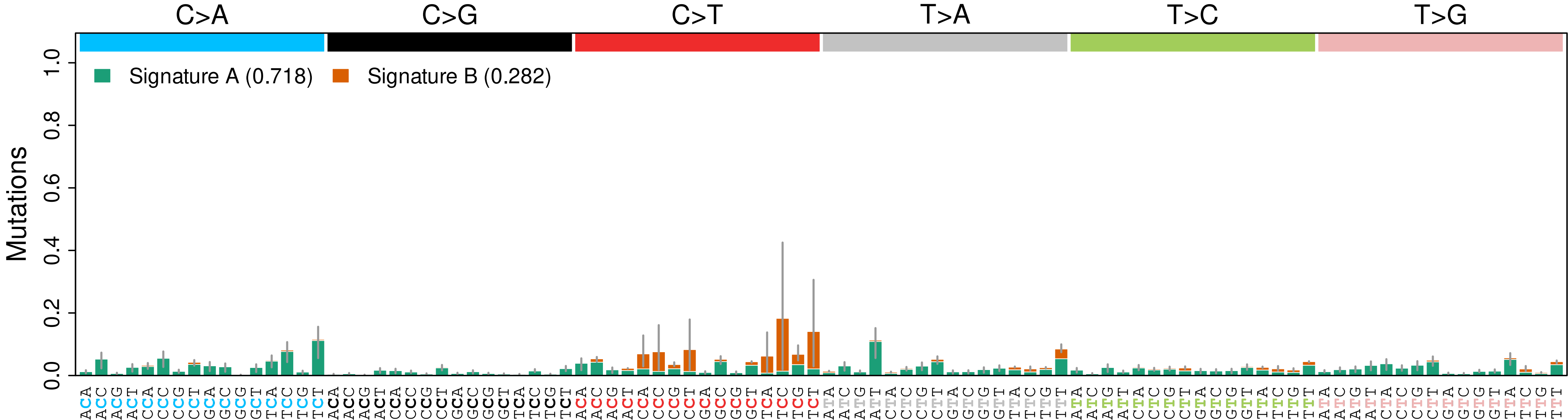
CATD0124a

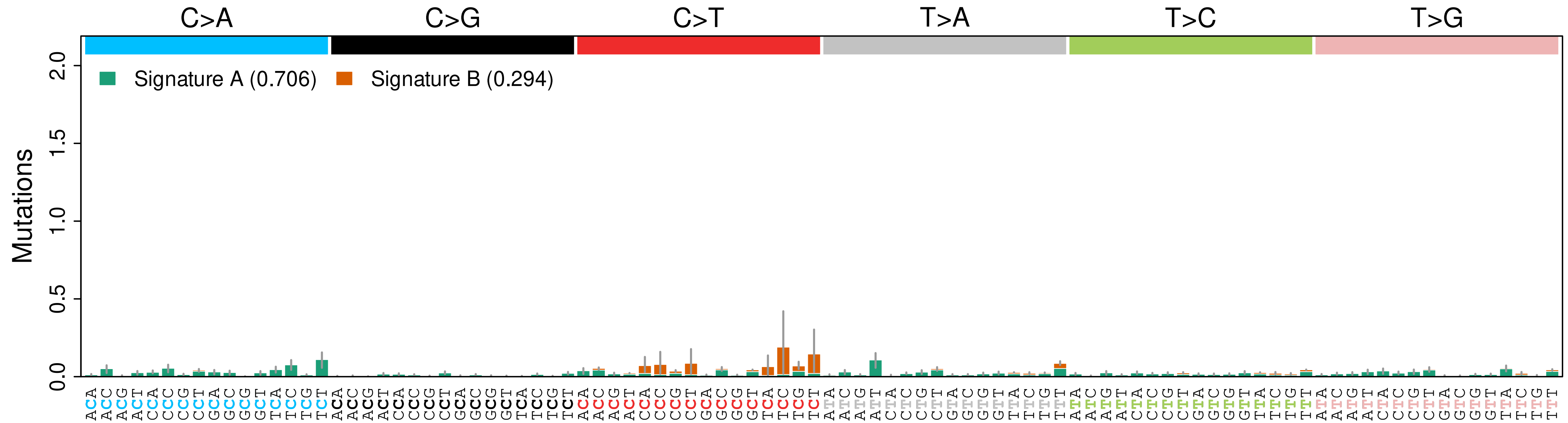**CATD0129a**

Reconstructed spectrum (cosine similarity = 0.028)

Signature A (0.739) Signature B (0.261)

CATD0130a (3 mutations)

Reconstructed spectrum (cosine similarity = 0.153)

Signature A (0.706)   Signature B (0.294)
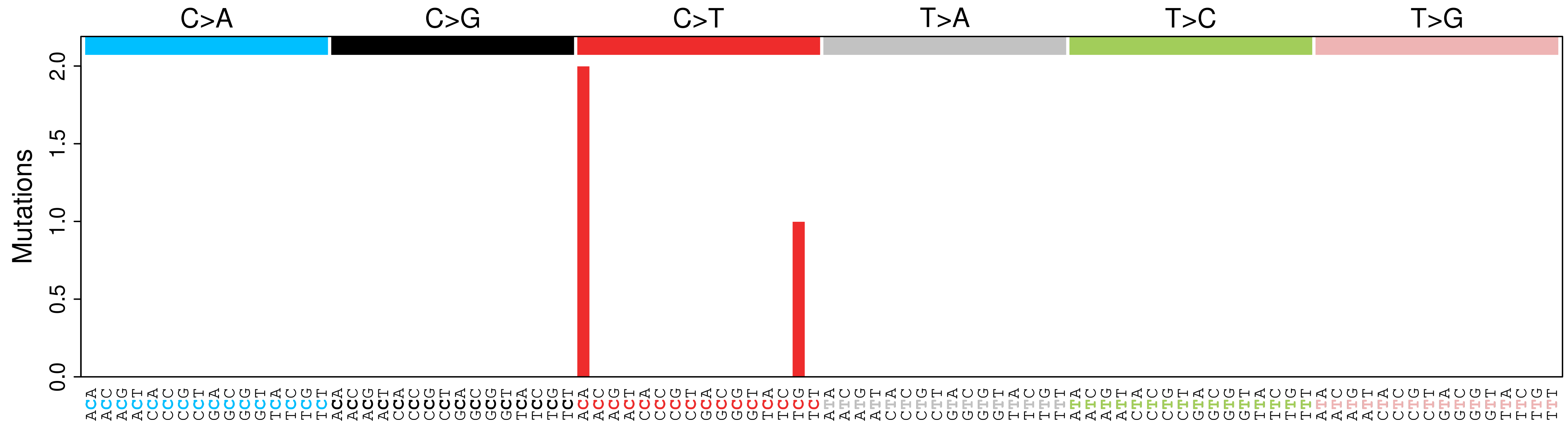
CATD0140a (4 mutations)

Reconstructed spectrum (cosine similarity = 0.156)

Signature A (0.731)   Signature B (0.269)
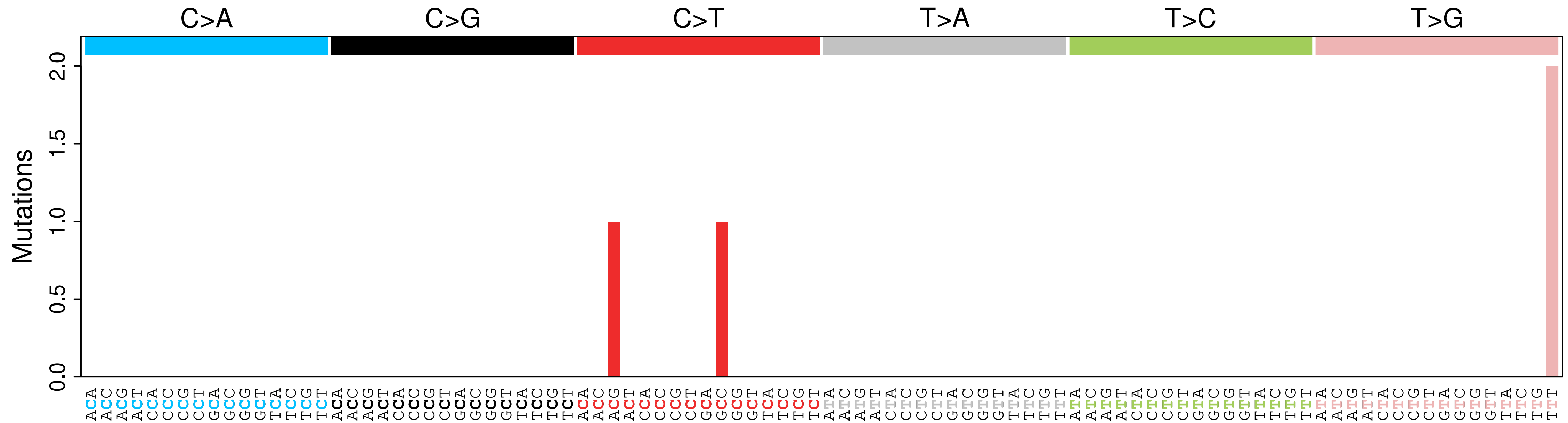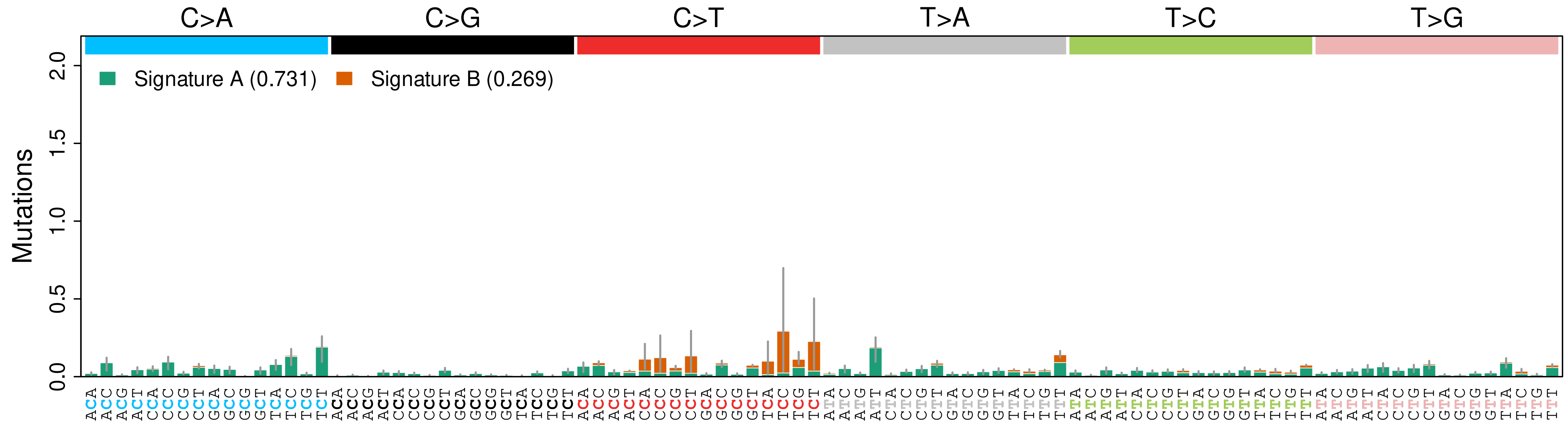
CATD0131a (21 mutations)
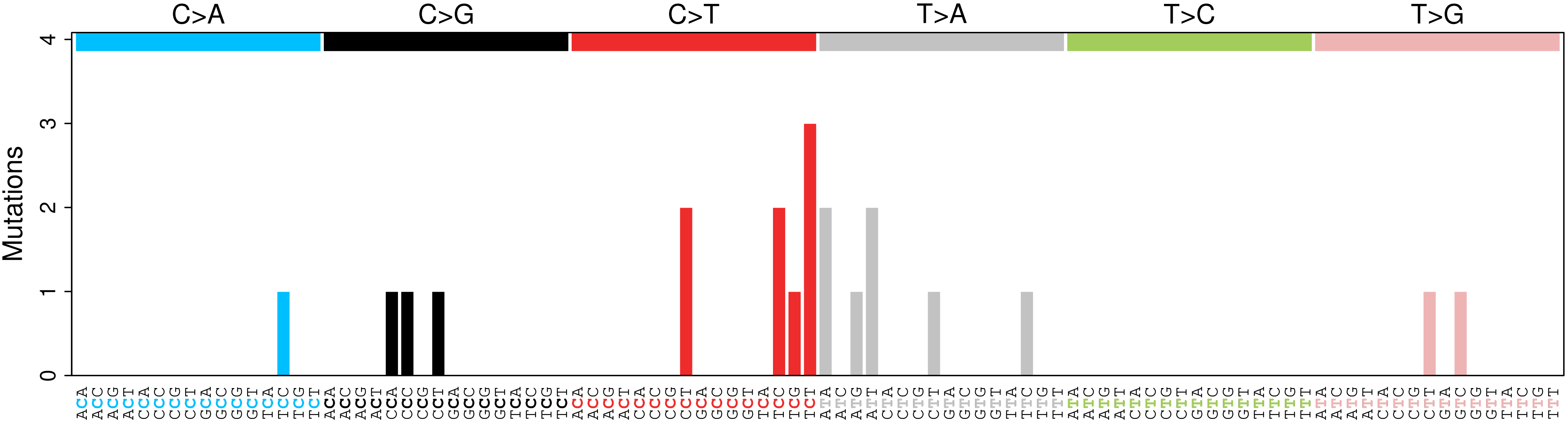
Reconstructed spectrum (cosine similarity = 0.669)

Signature A (0.438) Signature B (0.562)
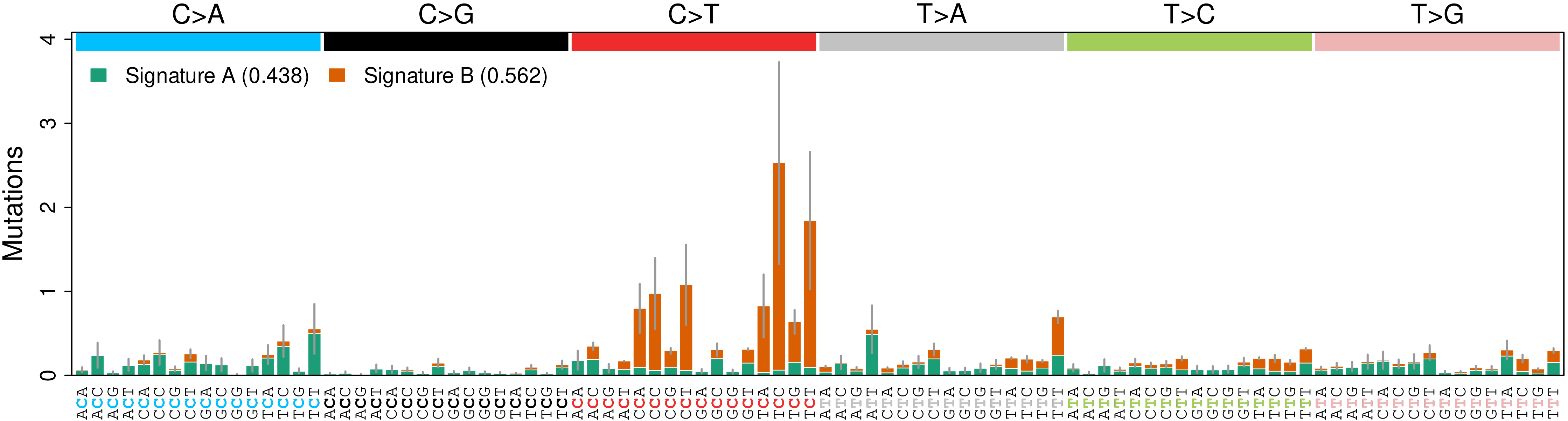
CATD0125a (3 mutations)
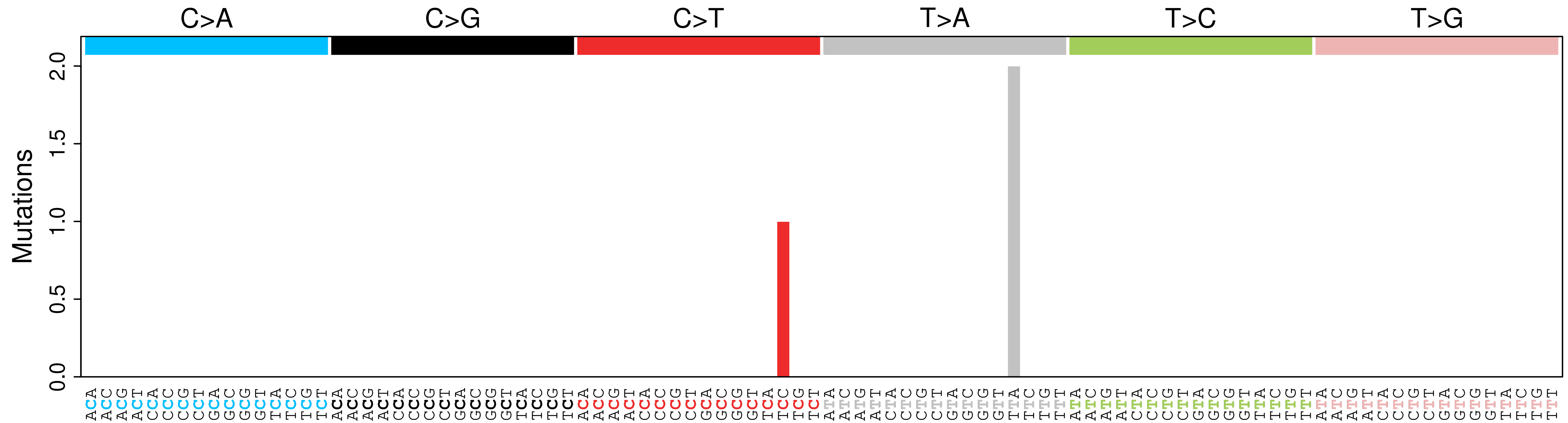
Reconstructed spectrum (cosine similarity = 0.329)

Signature A (0.325) Signature B (0.675)
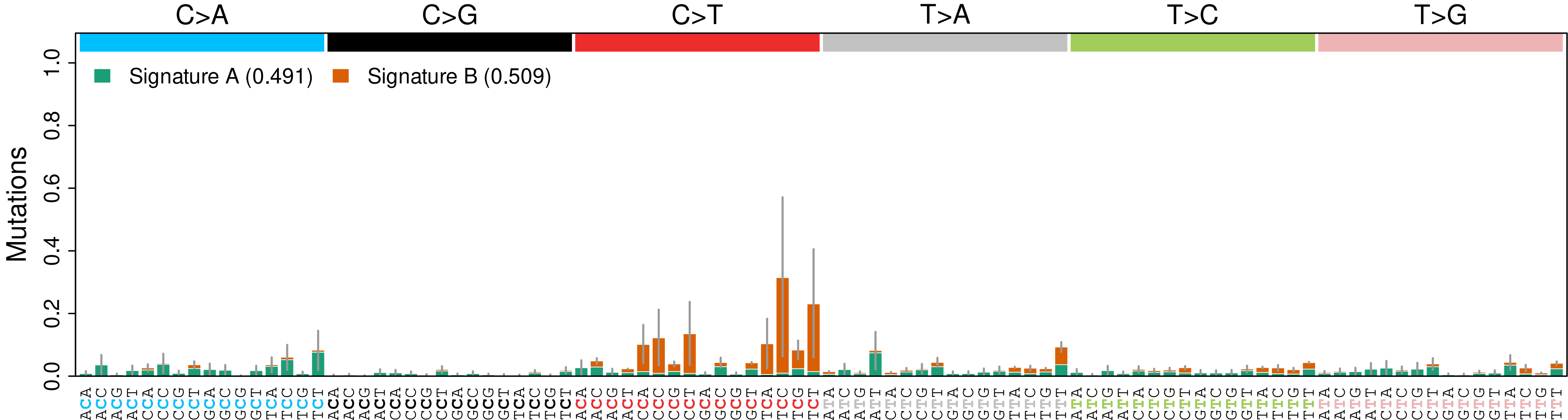
CATD0134a

CATD258a (6 mutations)

Reconstructed spectrum (cosine similarity = 0.187)

Signature A (0.757)　Signature B (0.243)
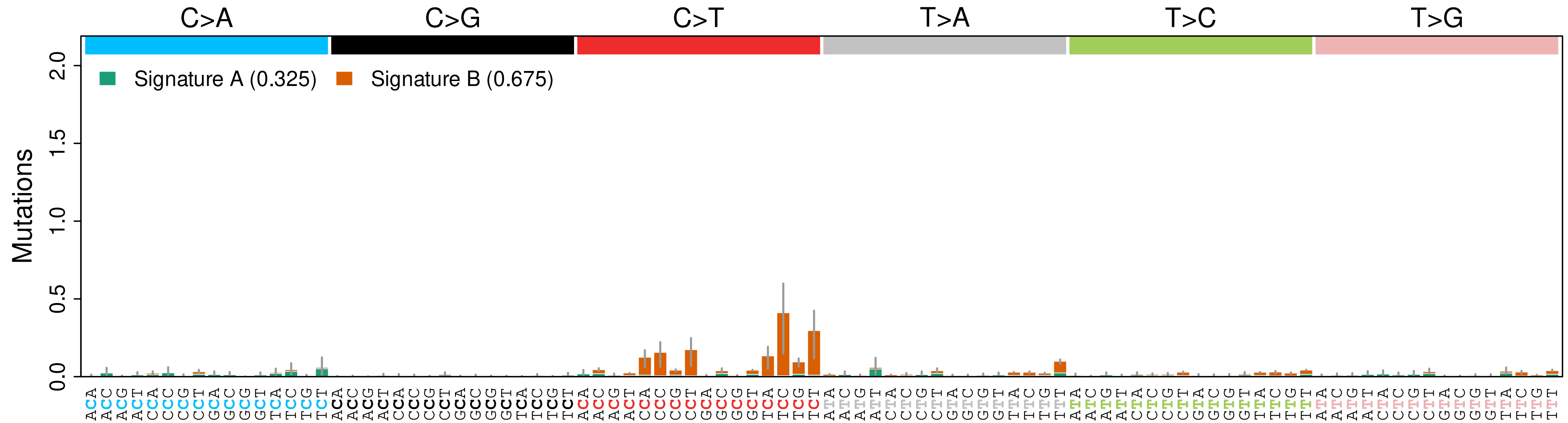
CATD257a

Reconstructed spectrum (cosine similarity = 0.095)
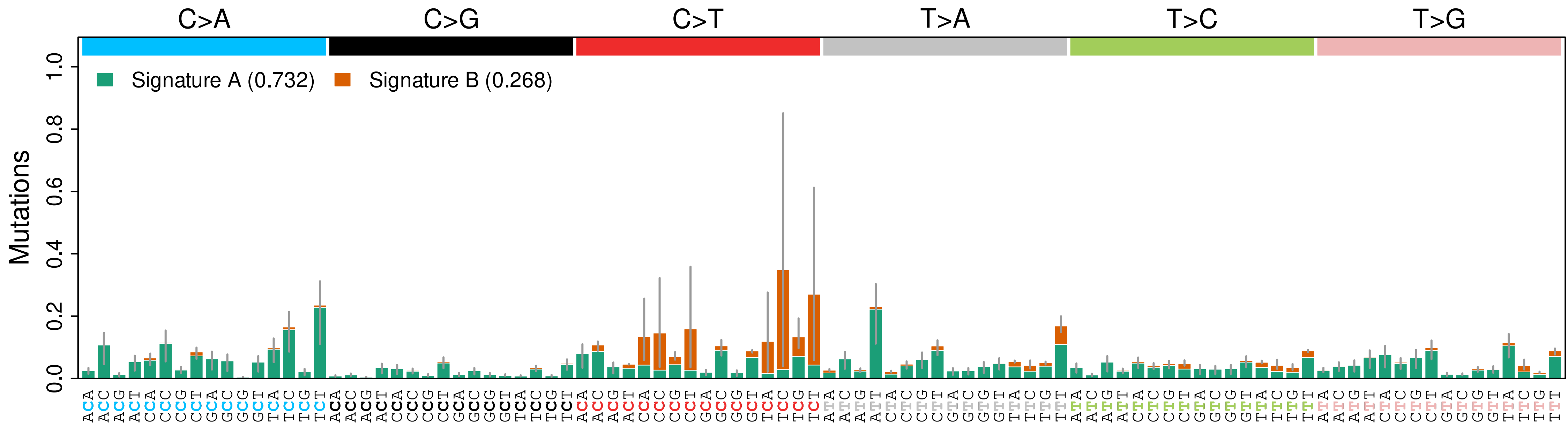
CATD0139a (7 mutations)
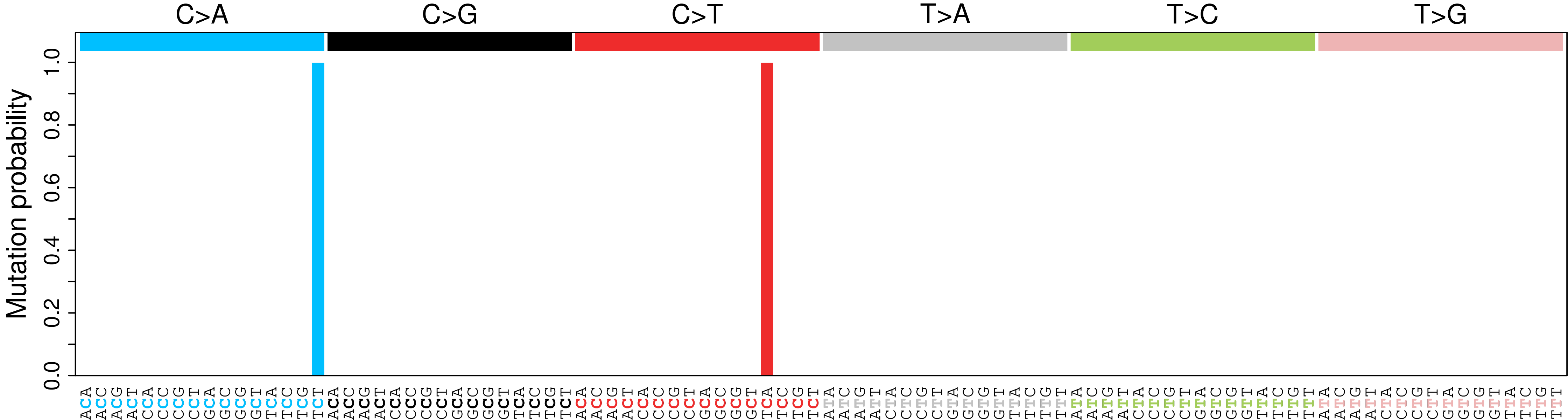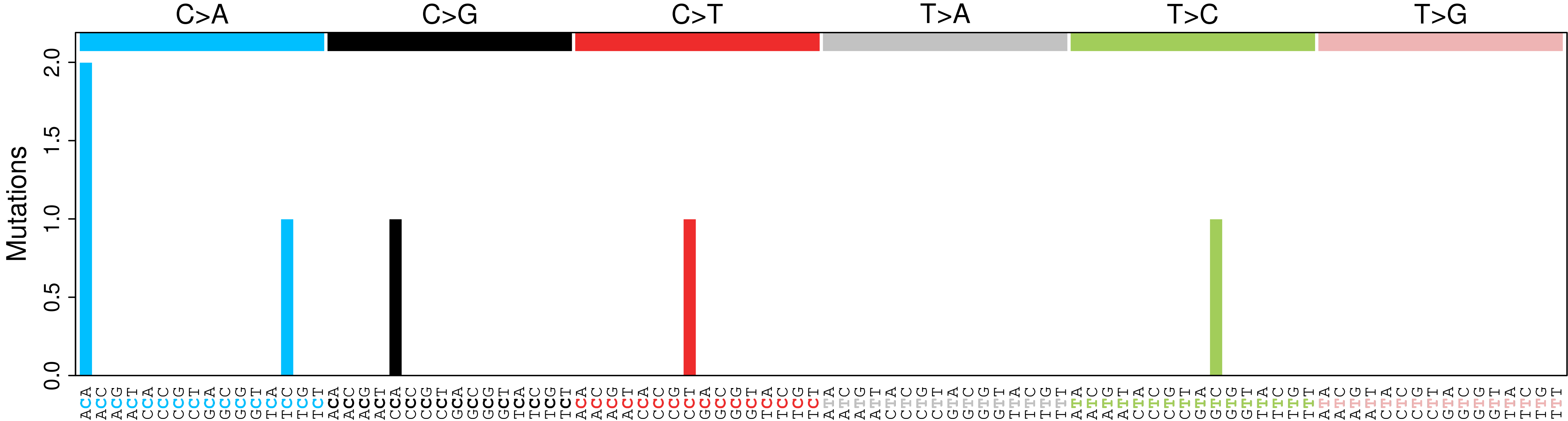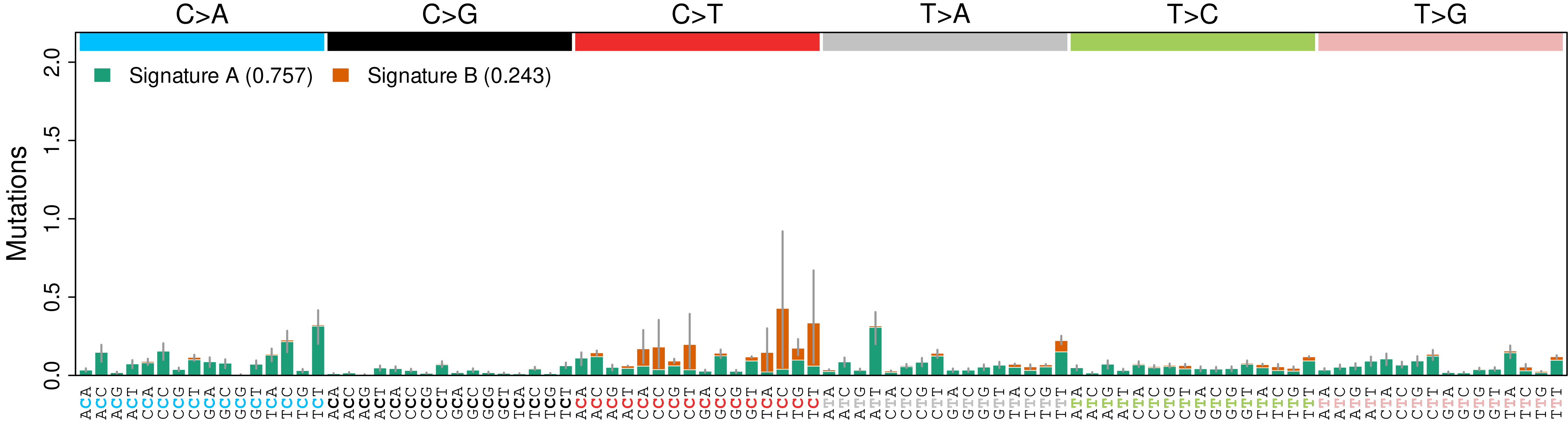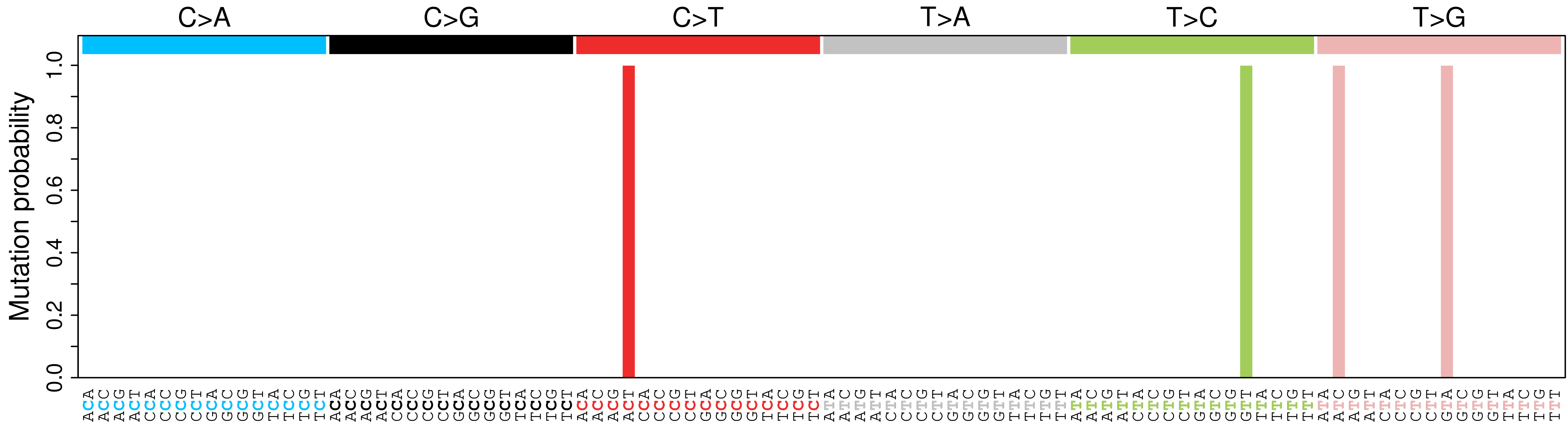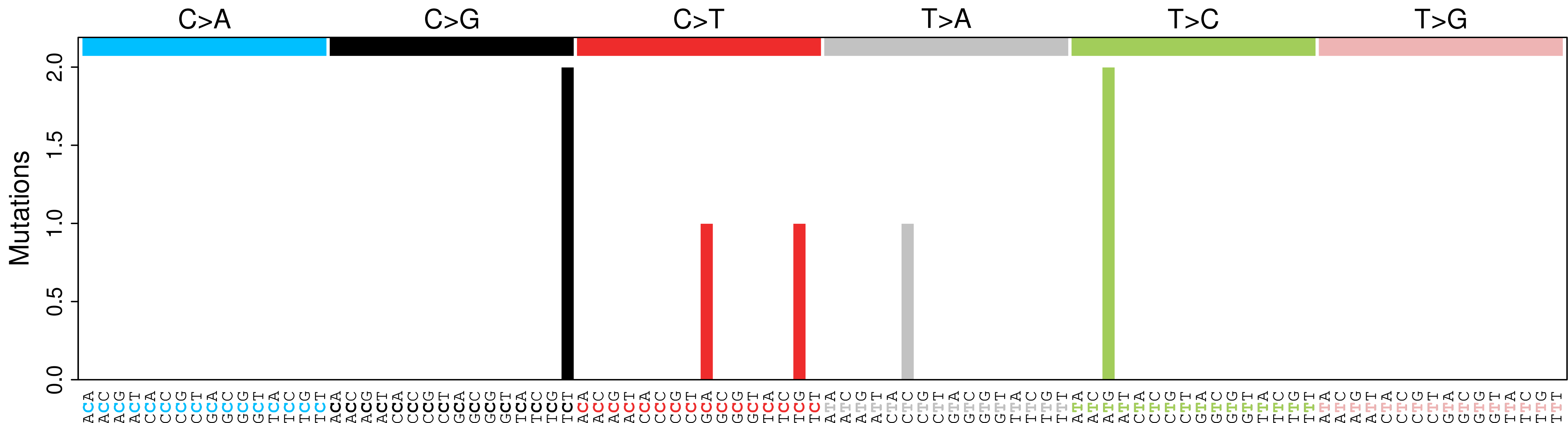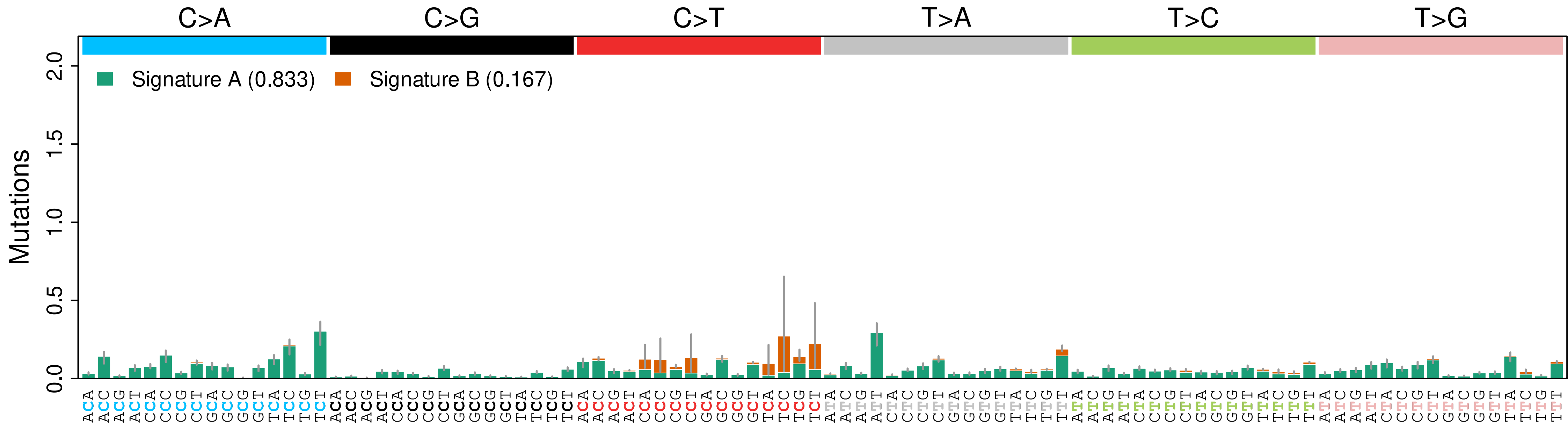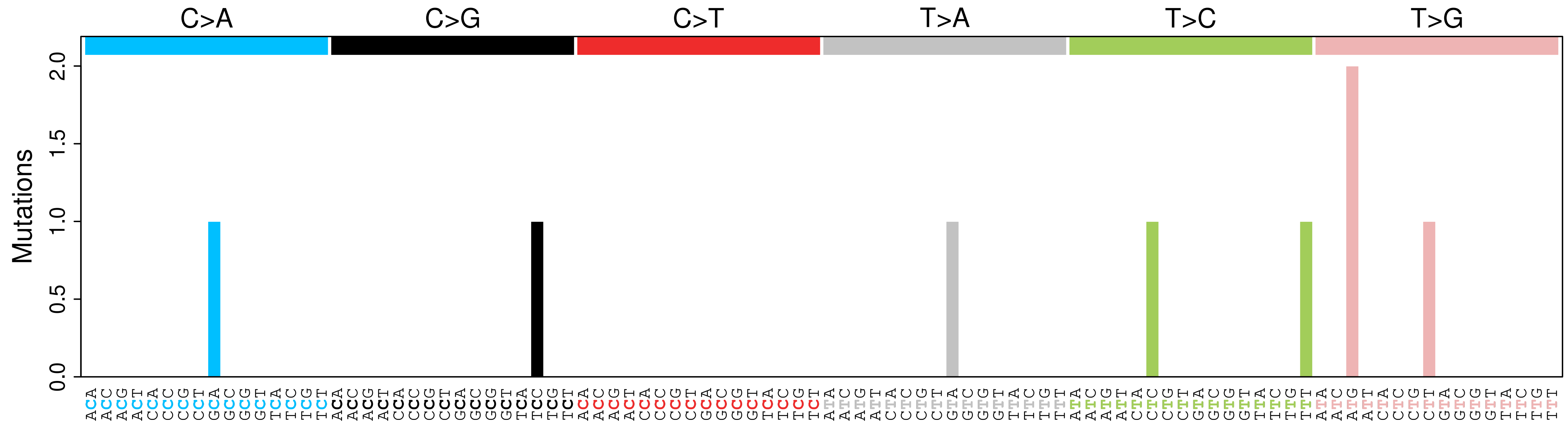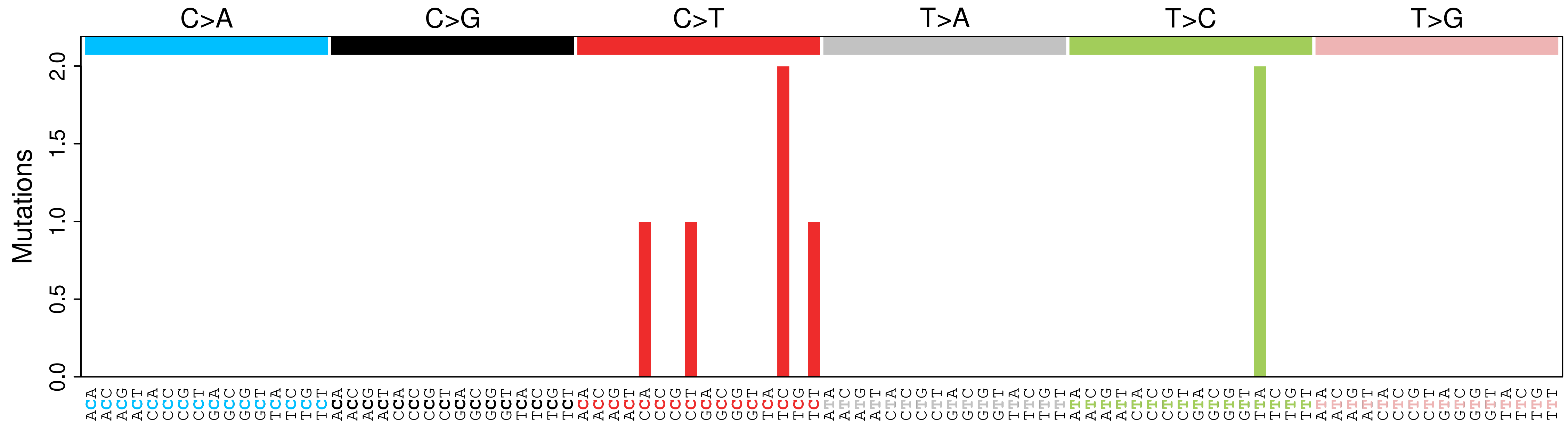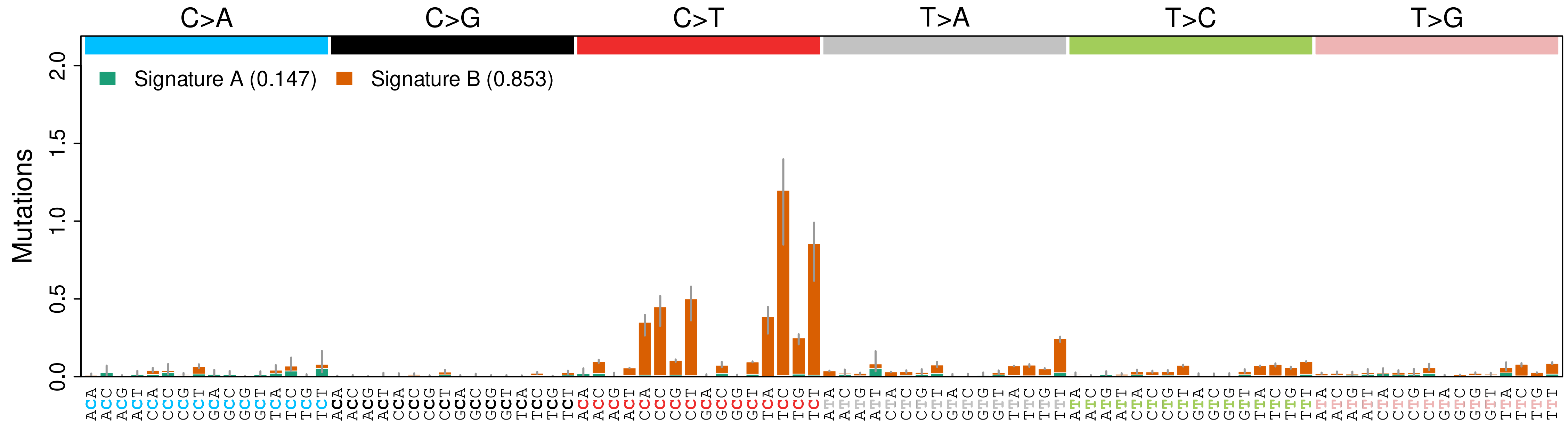
Reconstructed spectrum (cosine similarity = 0.159)

Signature A (0.833) Signature B (0.167)

CATD0137a (8 mutations)

Reconstructed spectrum (cosine similarity = 0.196)

CATD249a (7 mutations)

Reconstructed spectrum (cosine similarity = 0.718)

Signature A (0.147)   Signature B (0.853)

CATD271a (4 mutations)

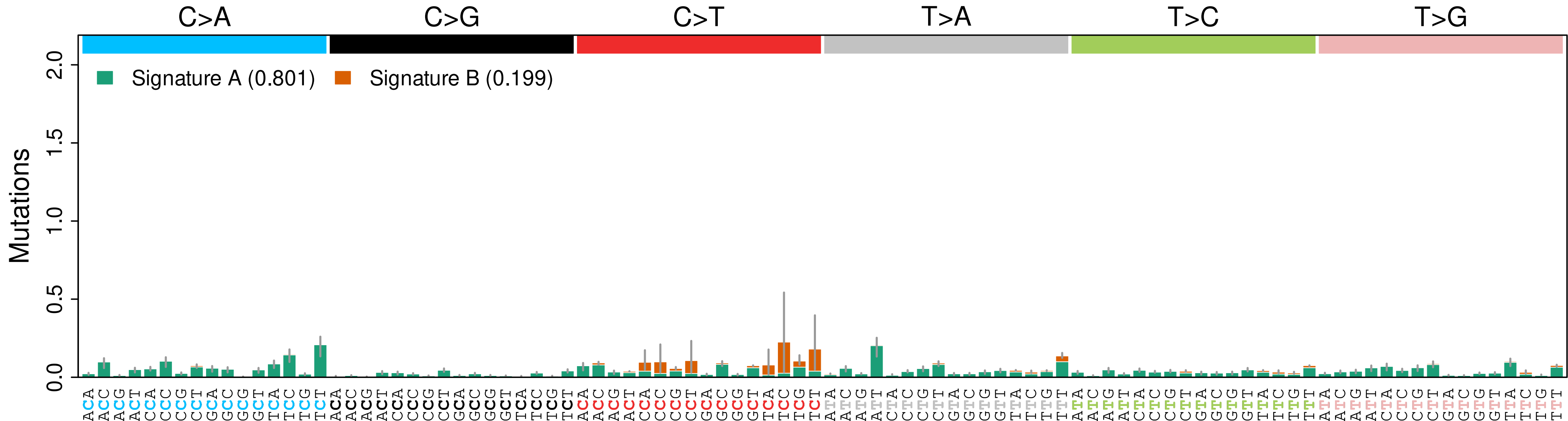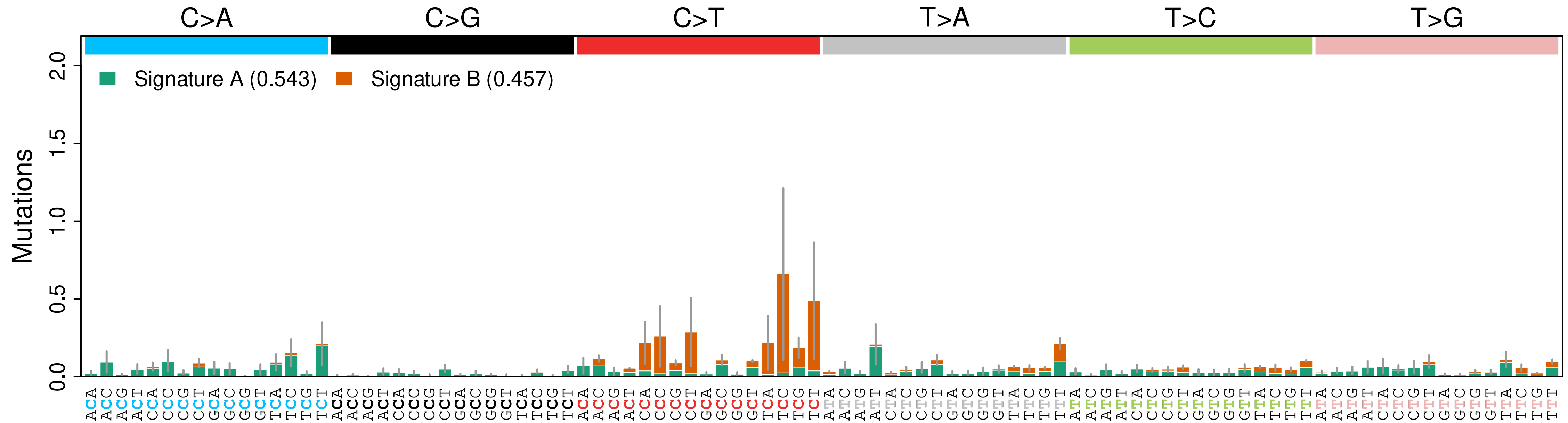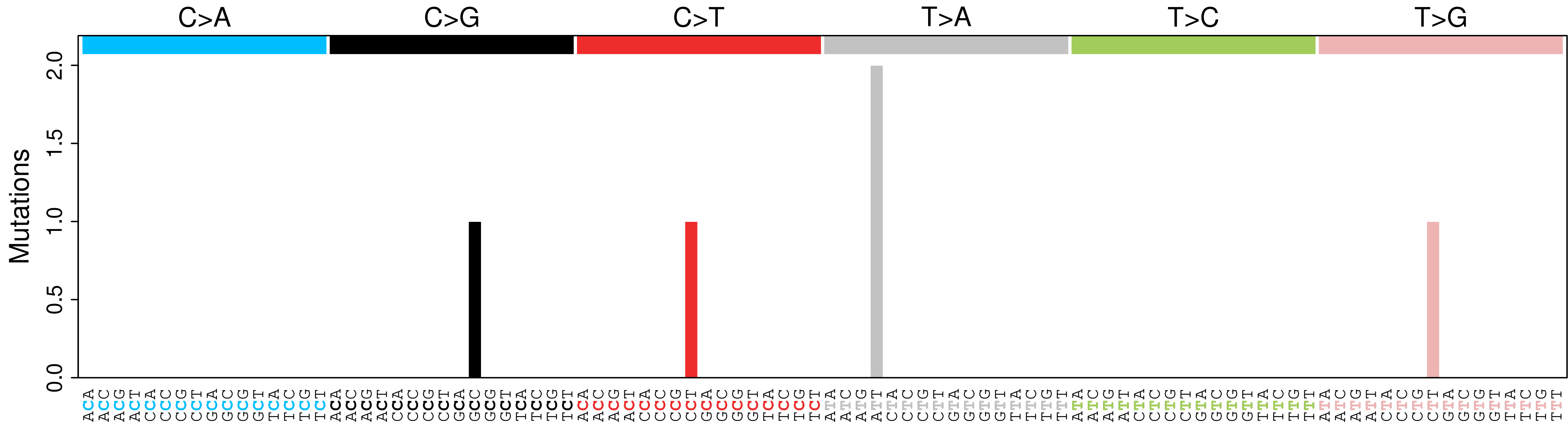**Reconstructed spectrum (cosine similarity = 0.12)**

Signature A (0.801)   Signature B (0.199)
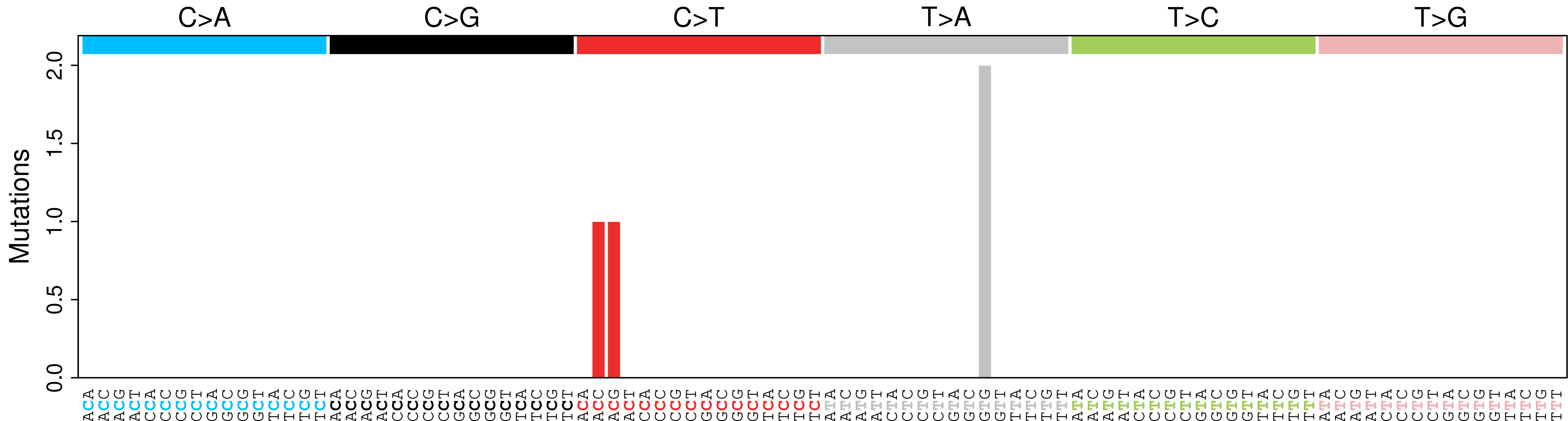
CATD259a (8 mutations)

Reconstructed spectrum (cosine similarity = 0.27)
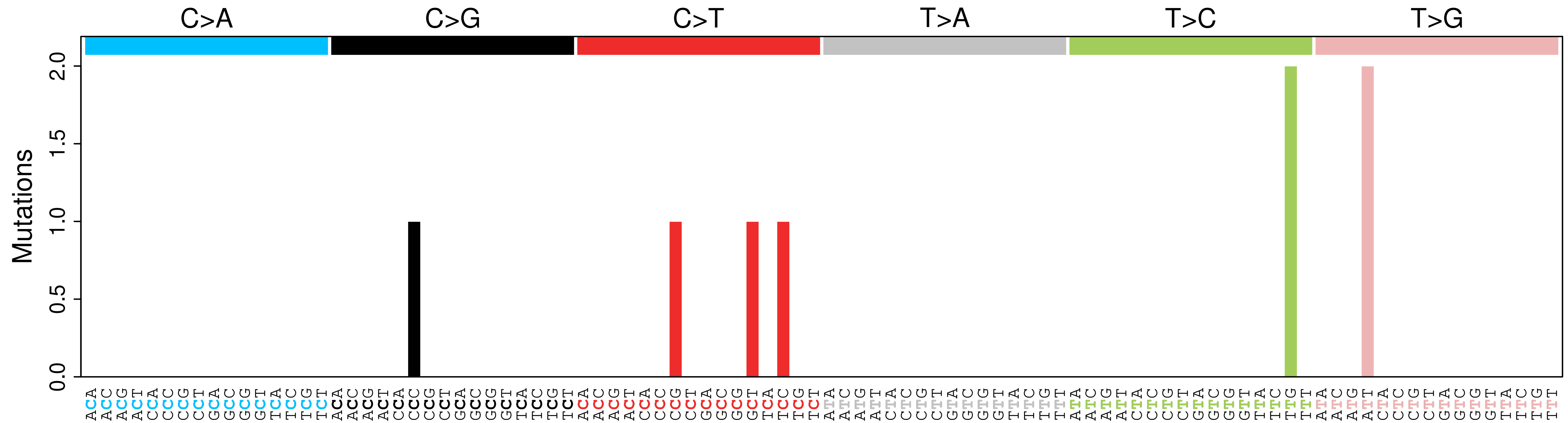
Signature A (0.543)   Signature B (0.457)

CATD0127a (5 mutations)

Reconstructed spectrum (cosine similarity = 0.326)

Signature A (0.705) Signature B (0.295)

CATD277a

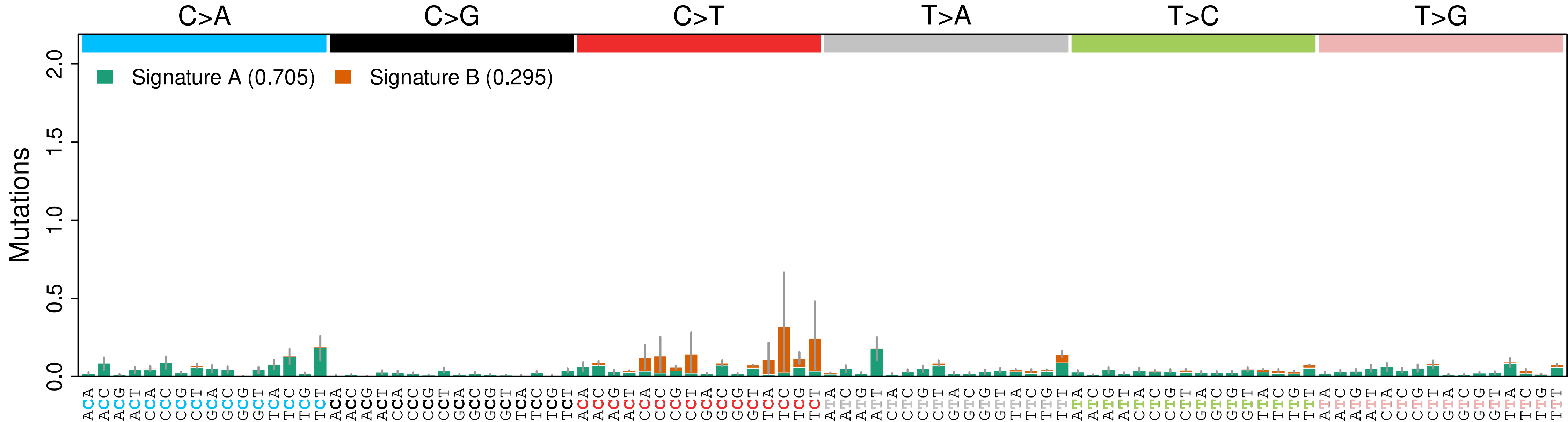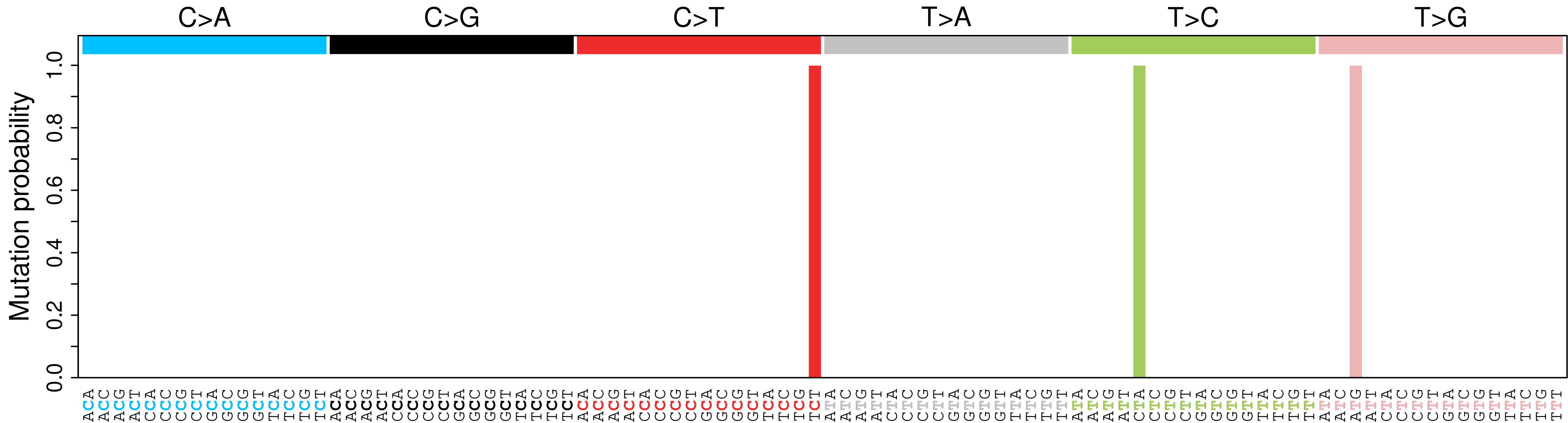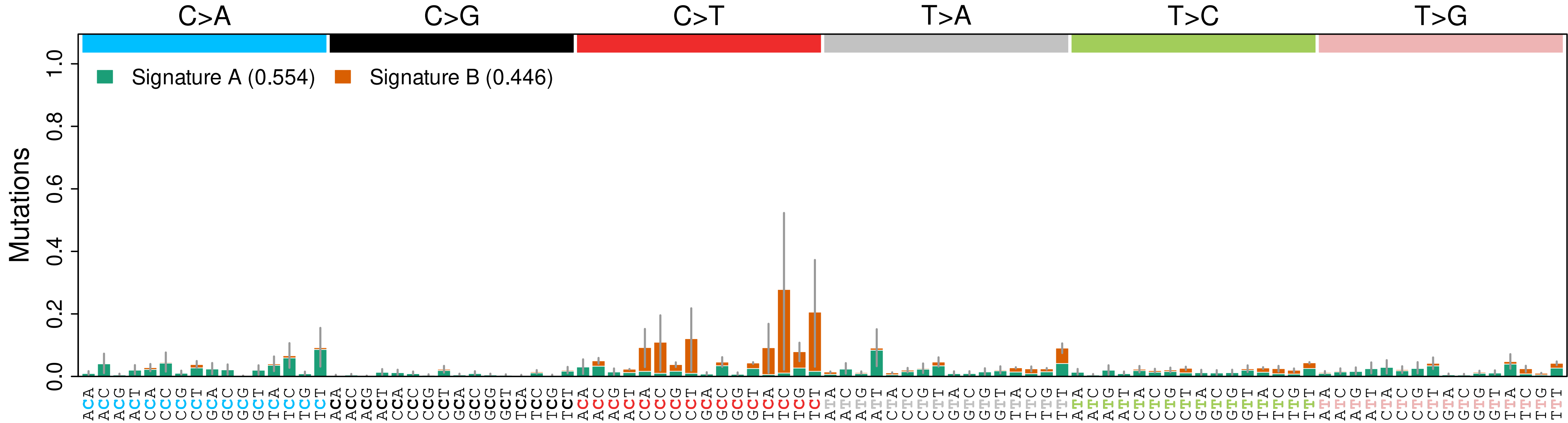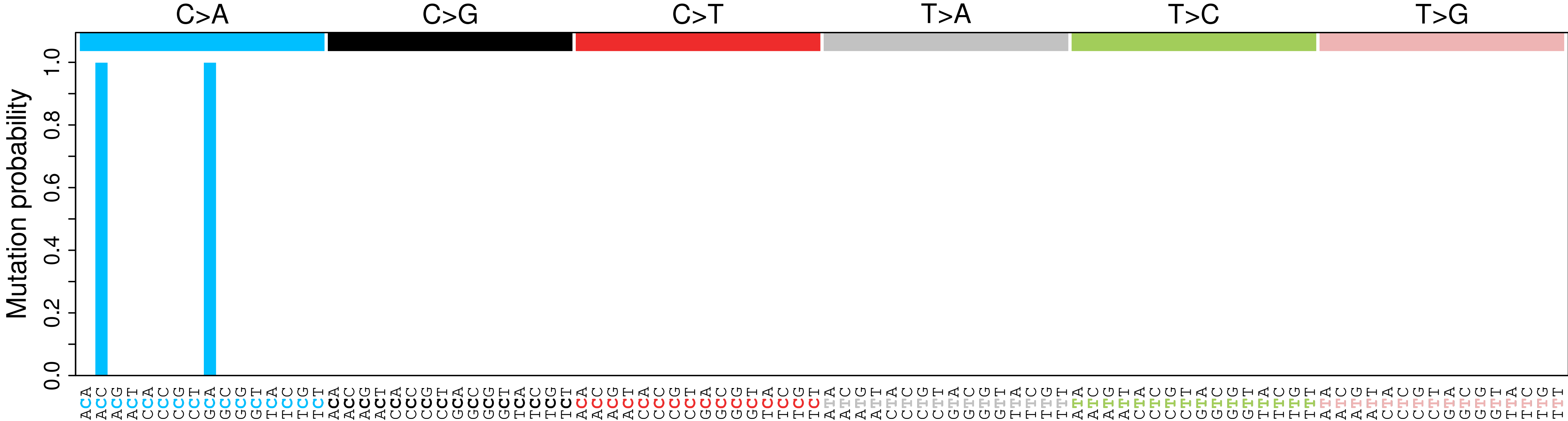Reconstructed spectrum (cosine similarity = 0.287)

CATD281a

Reconstructed spectrum (cosine similarity = 0.148)

CATD0133a