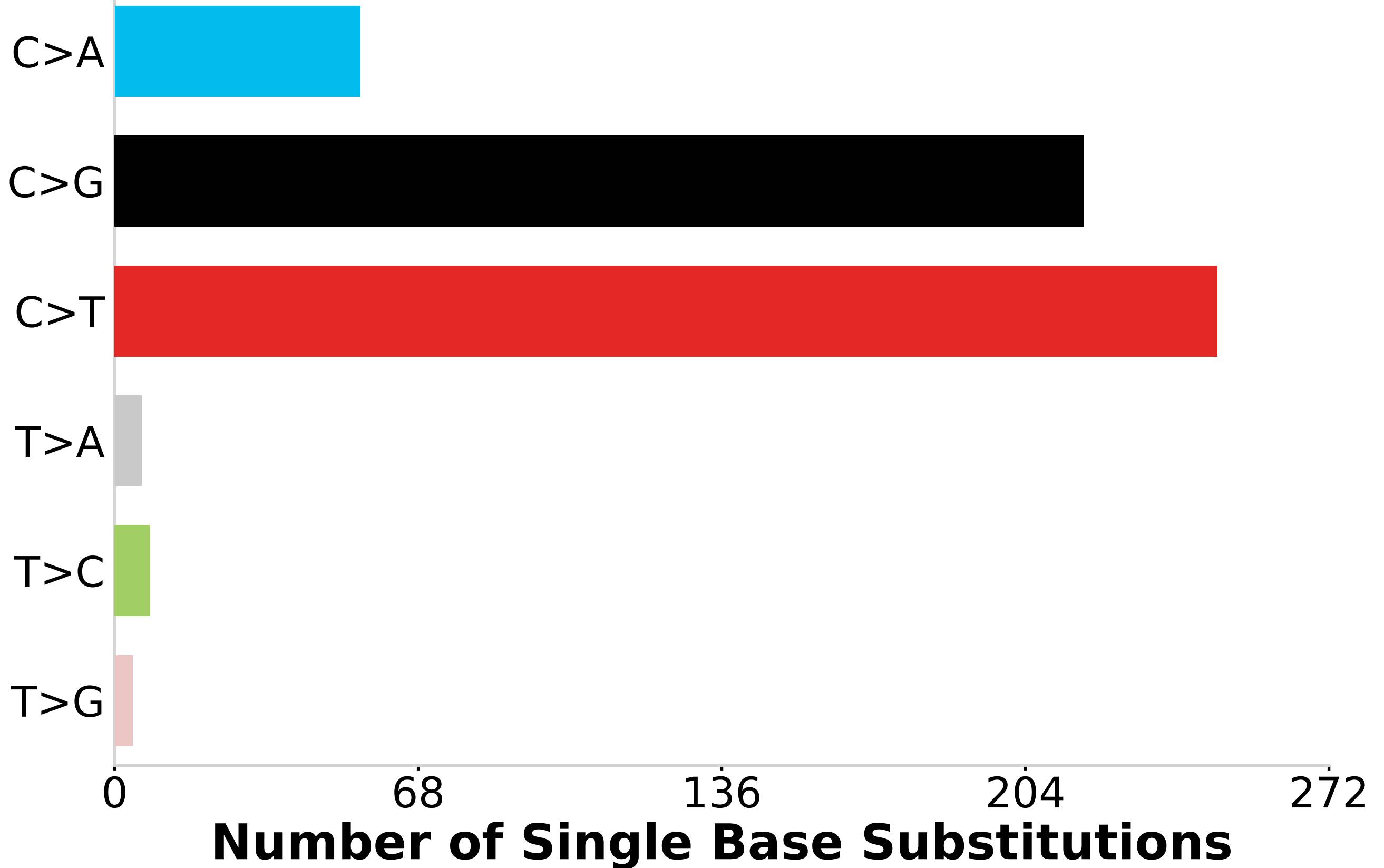
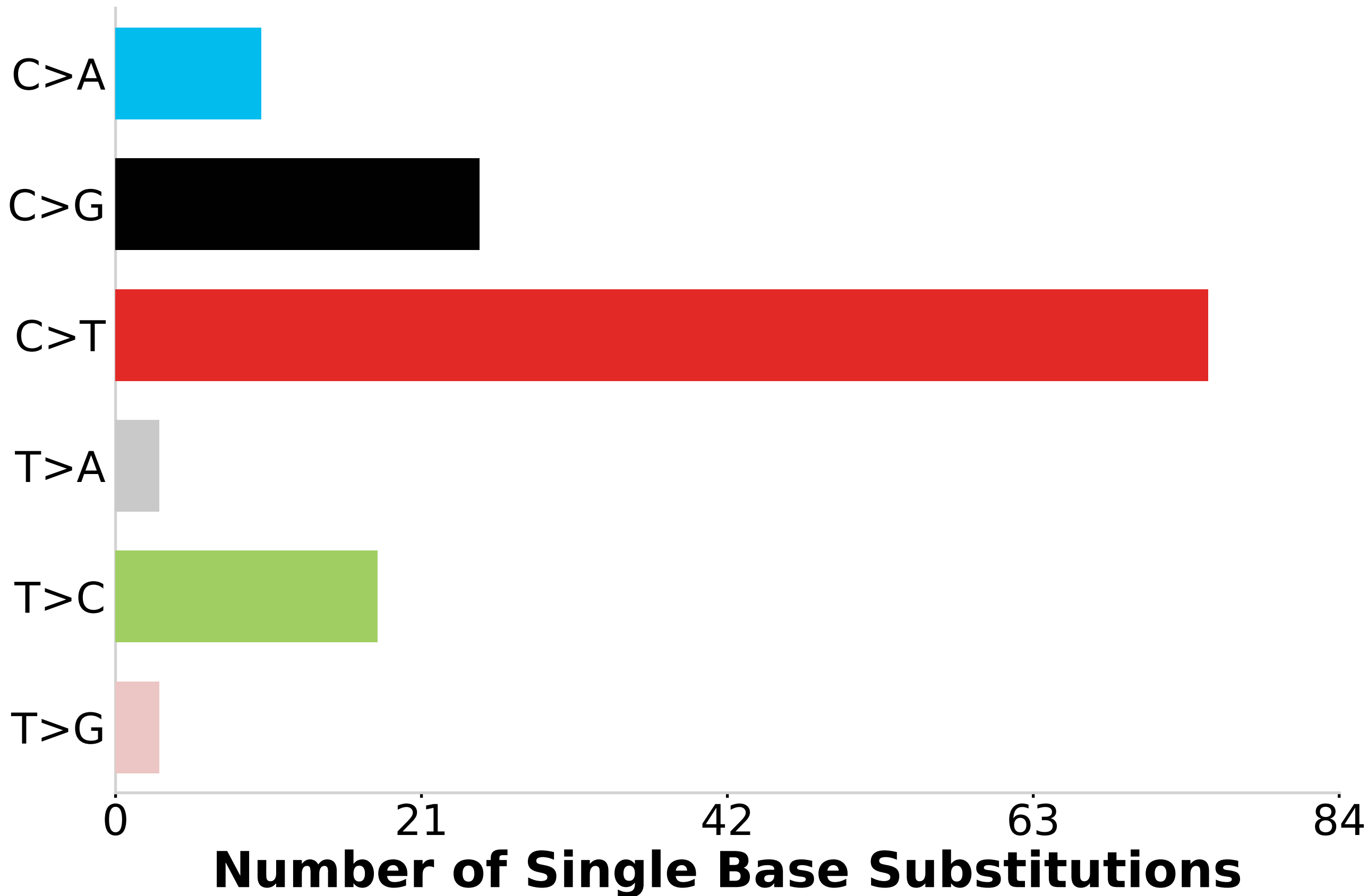


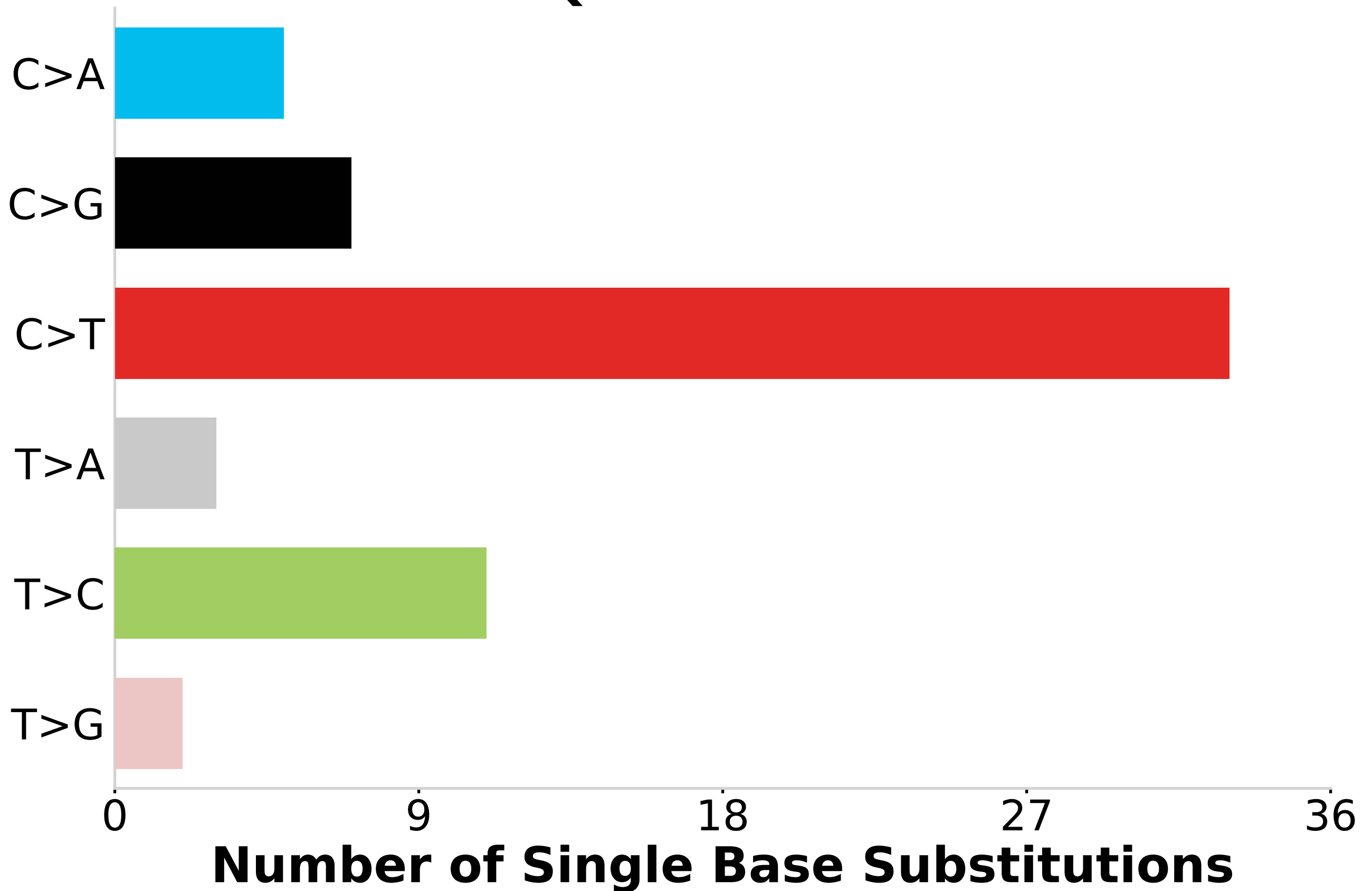
TCGA-2F-A9KO-01A-11D-A38G-08: 537 sub



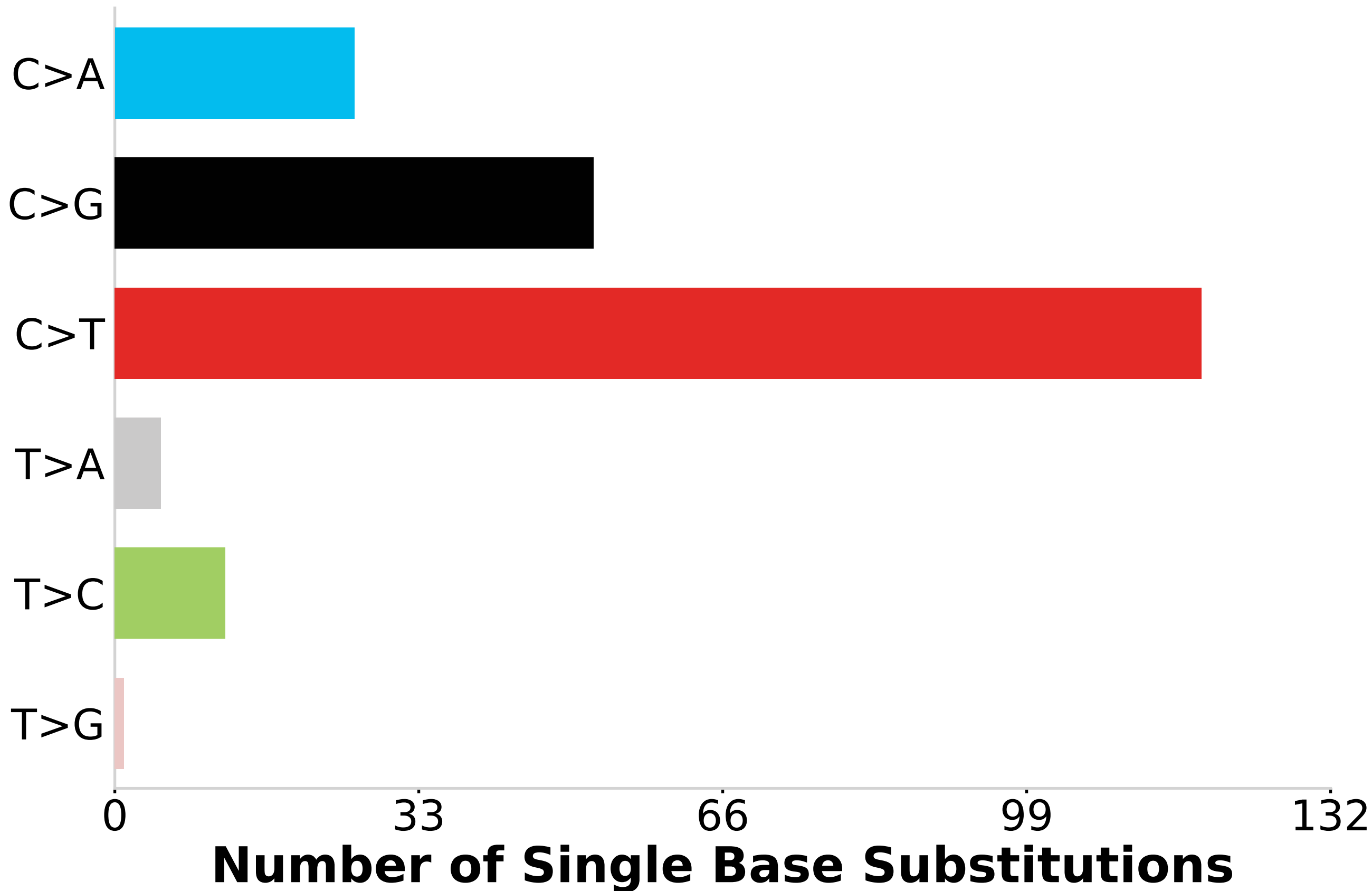
TCGA-2F-A9KP-01A-11D-A38G-08: 134 sub



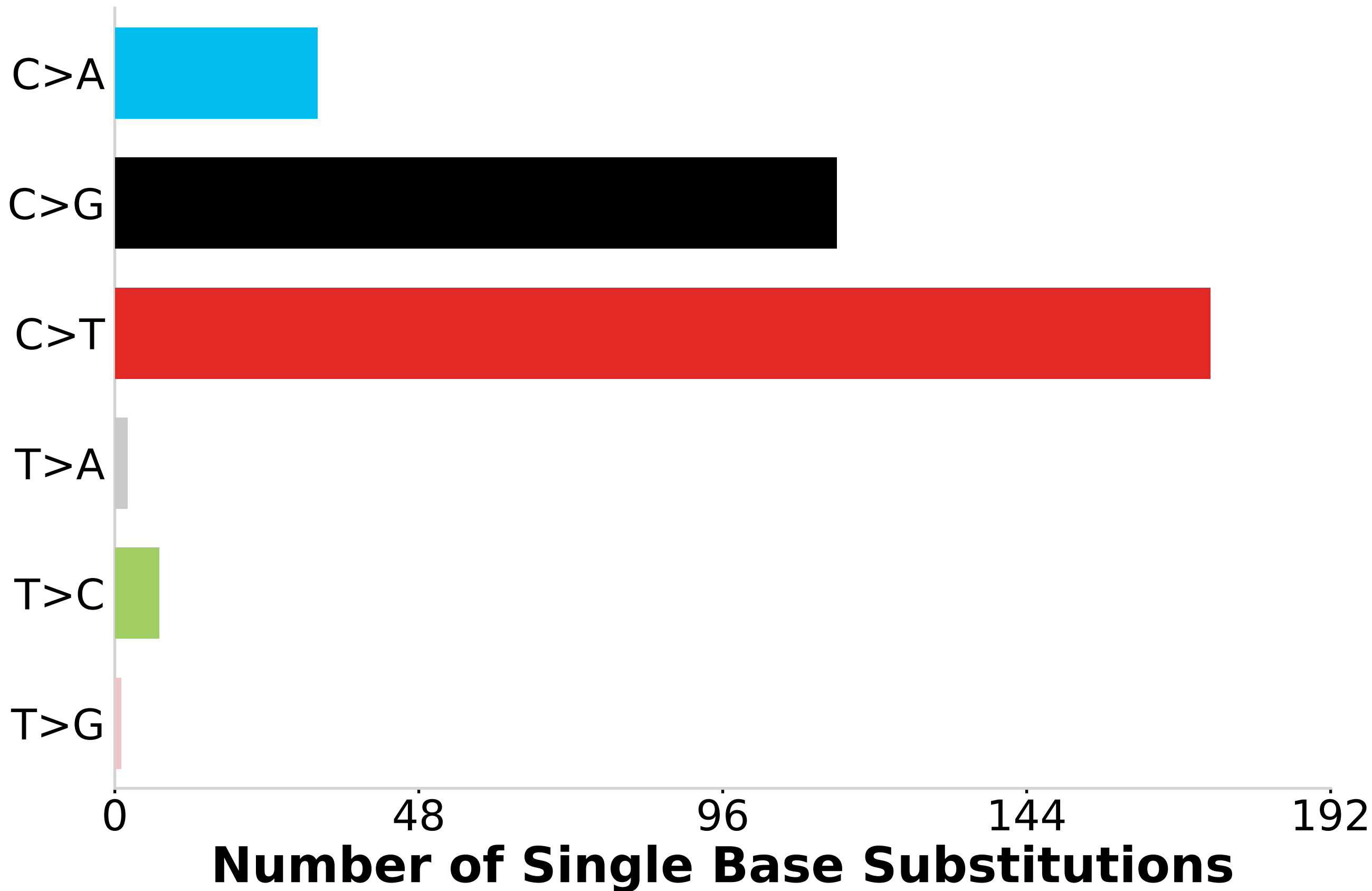
TCGA-2F-A9KQ-01A-11D-A38G-08: 61 subs



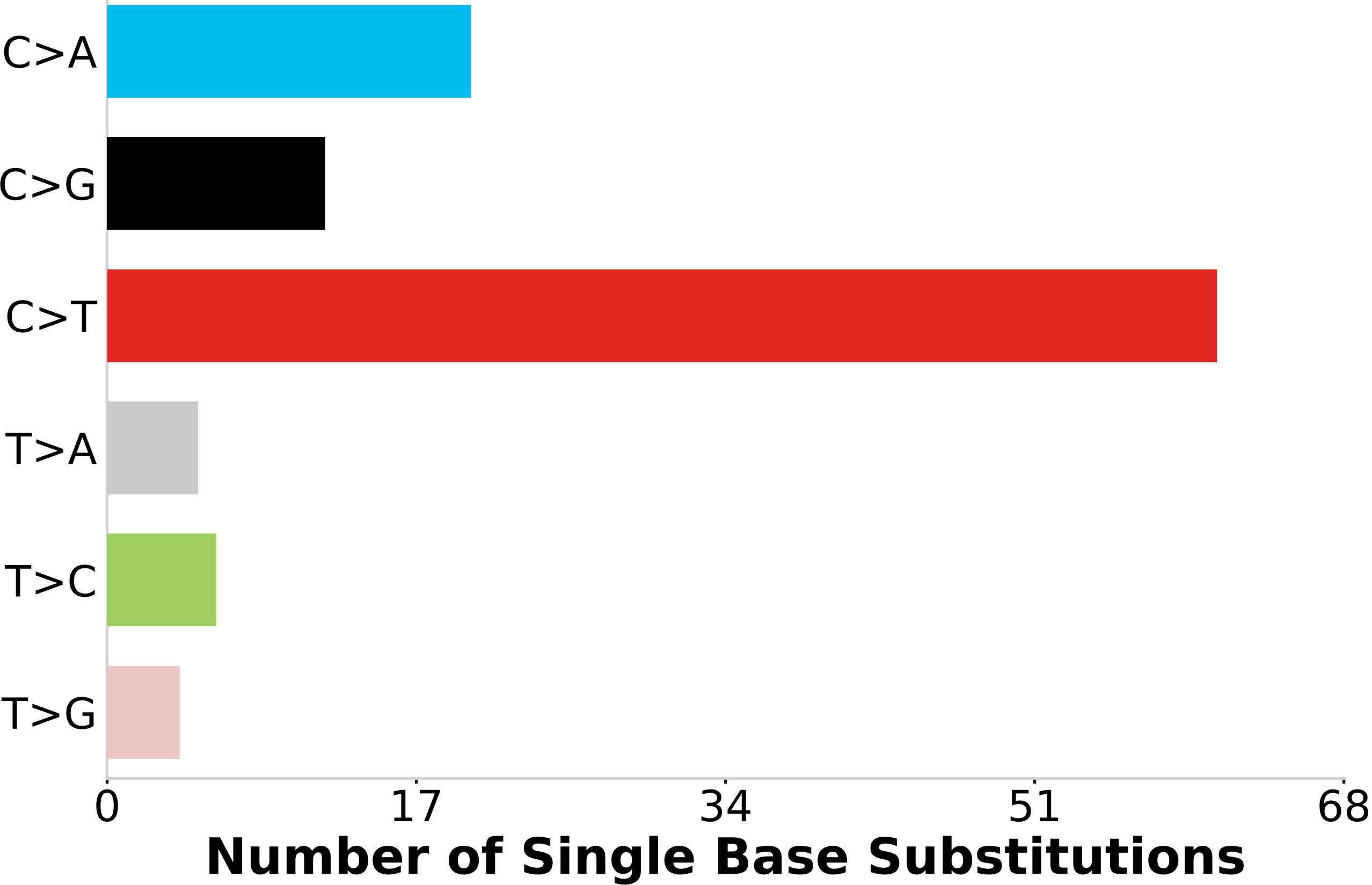
TCGA-2F-A9KR-01A-11D-A38G-08: 214 sub



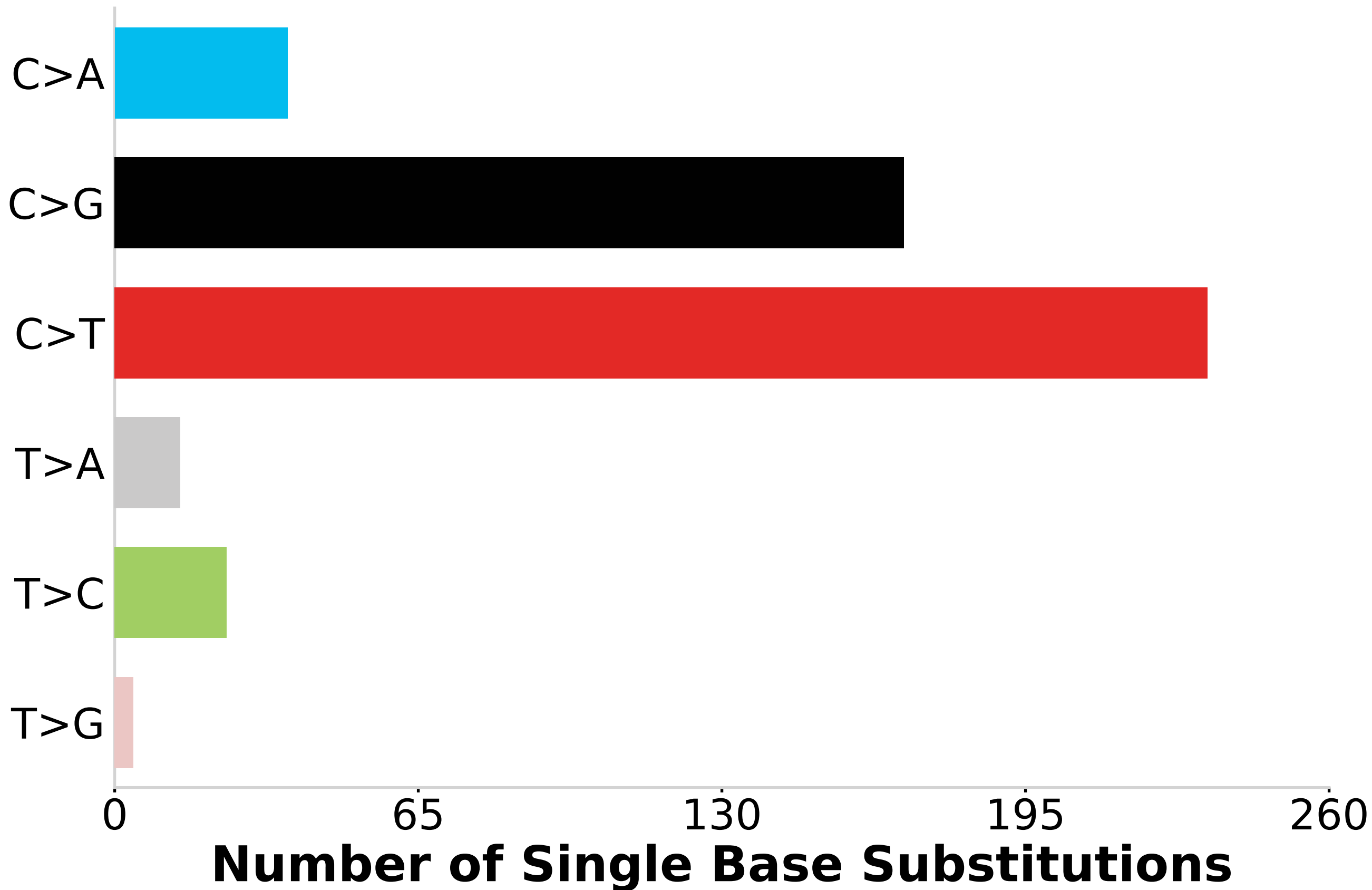
TCGA-2F-A9KT-01A-11D-A38G-08: 329 sub



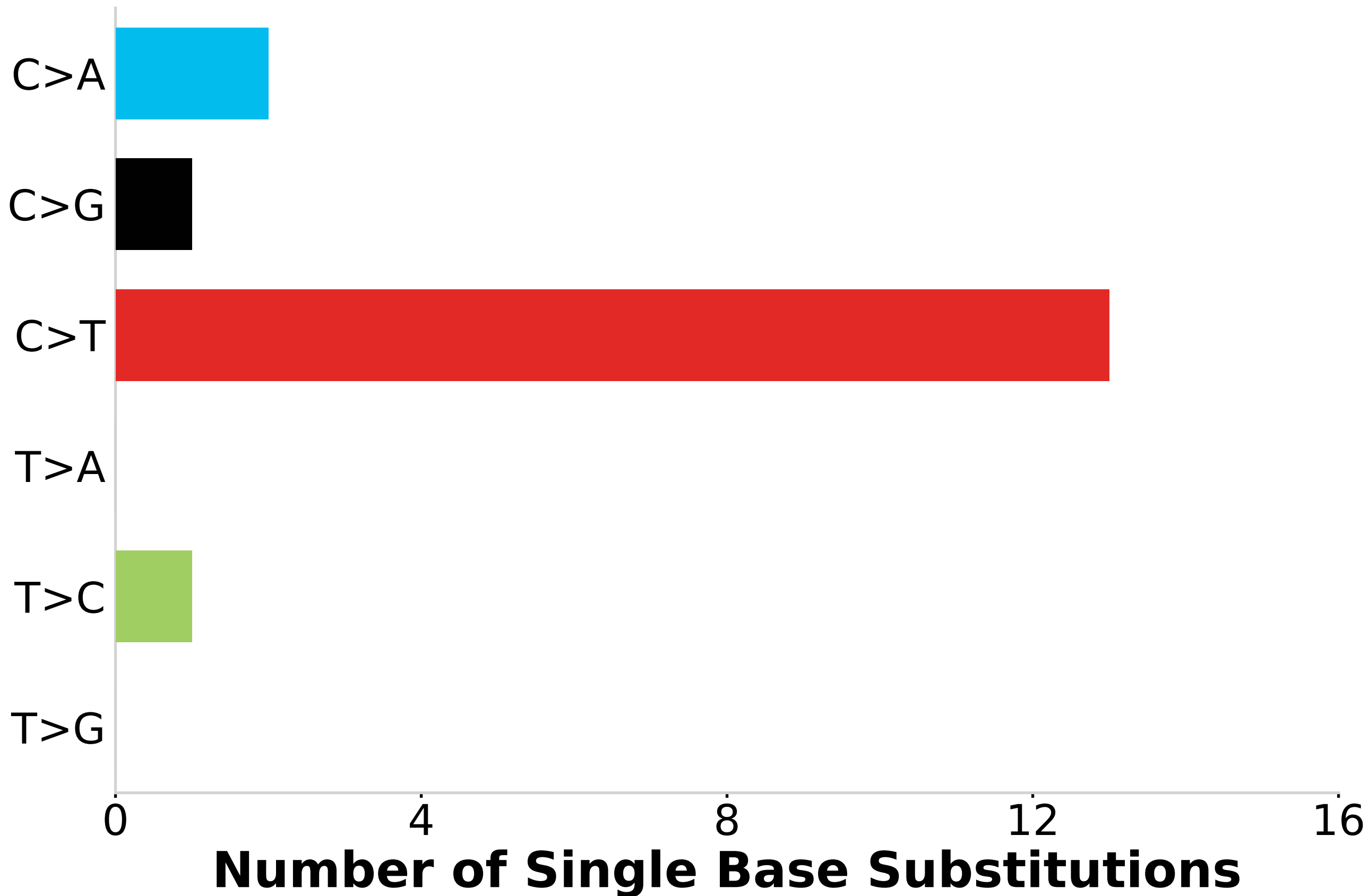
TCGA-2F-A9KW-01A-11D-A38G-08: 108 sub



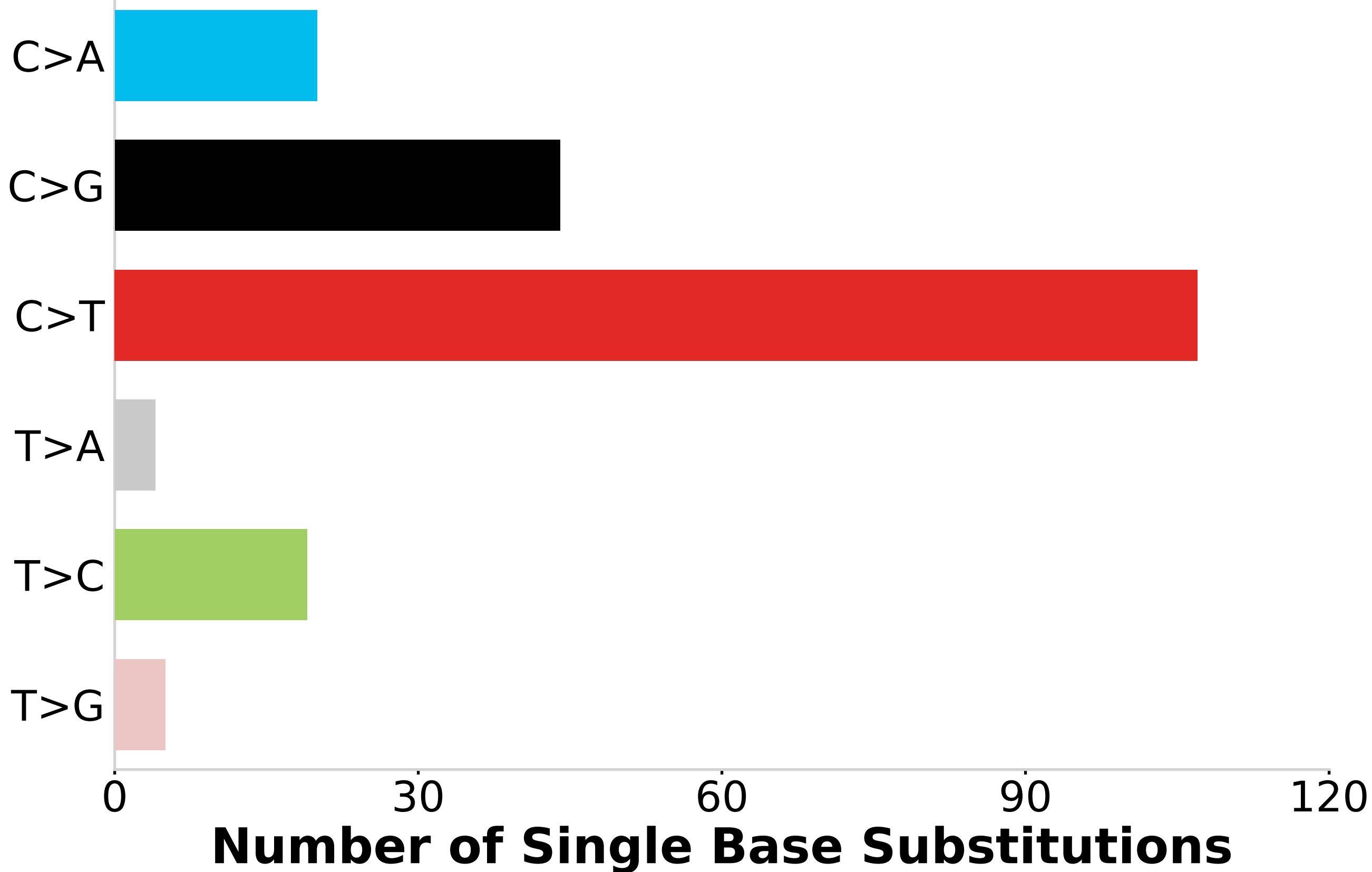
TCGA-4Z-AA7M-01A-11D-A391-08: 482 sub



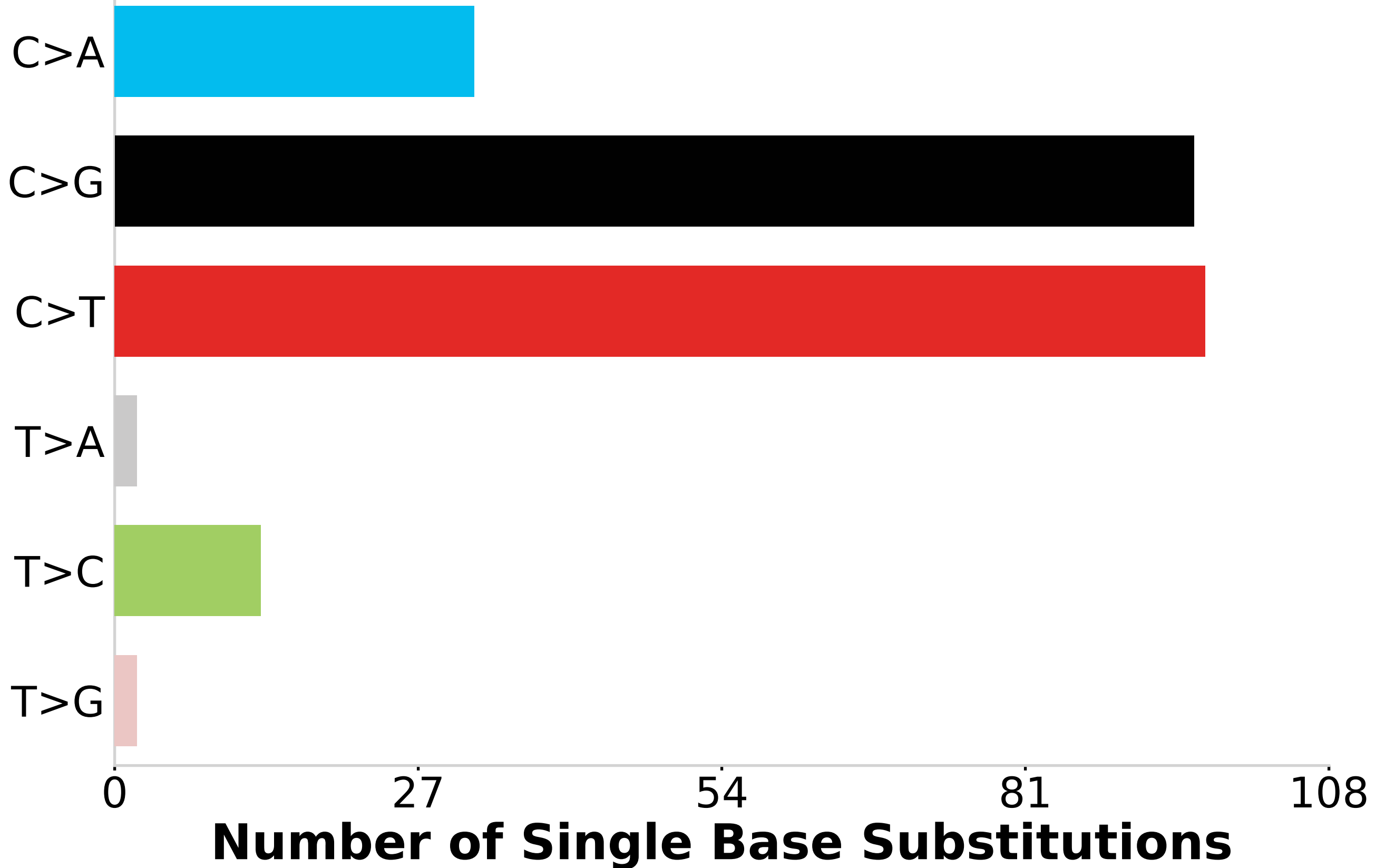
TCGA-4Z-AA7N-01A-11D-A391-08: 17 subs



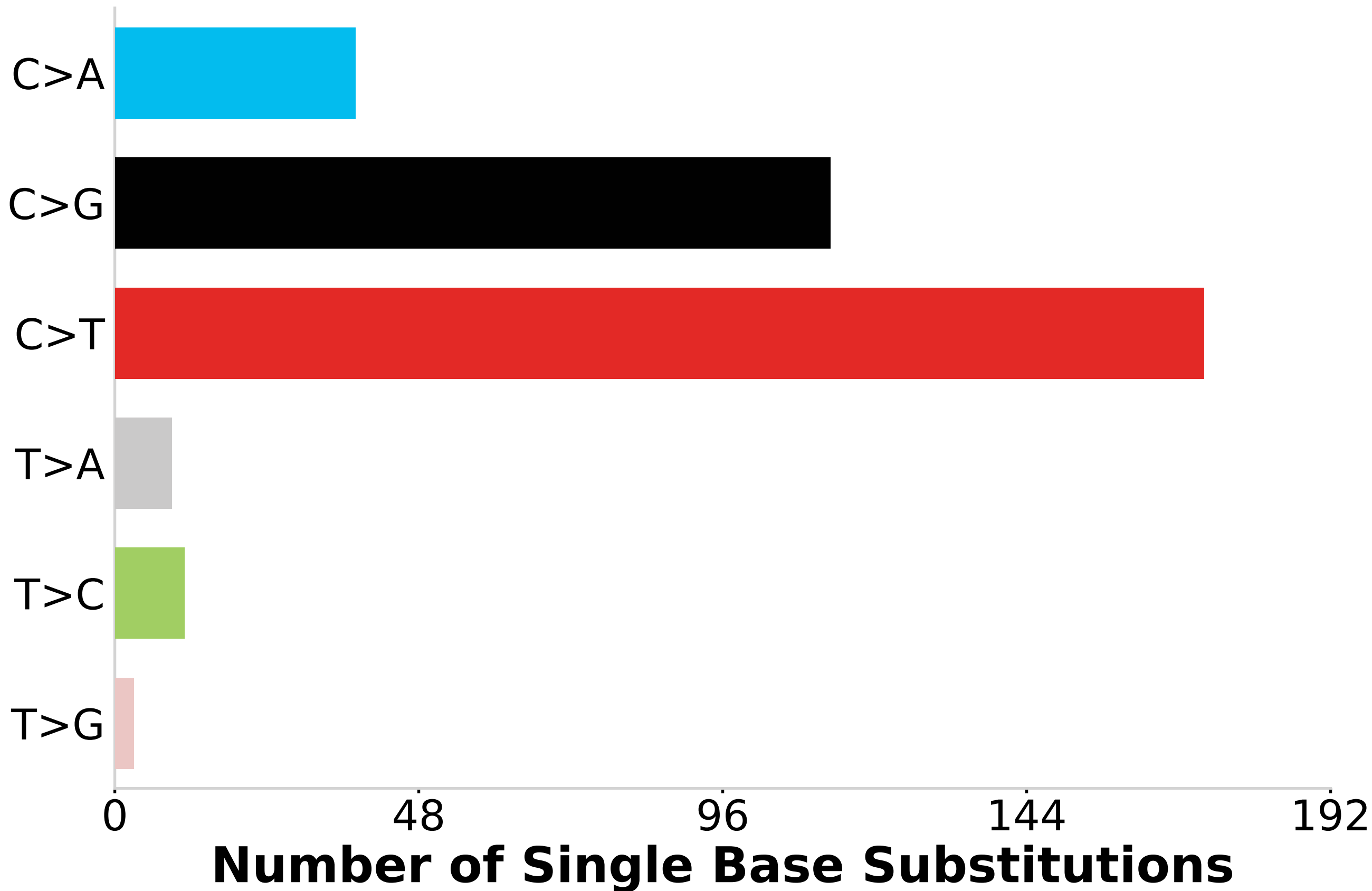
TCGA-4Z-AA70-01A-31D-A391-08: 199 sub



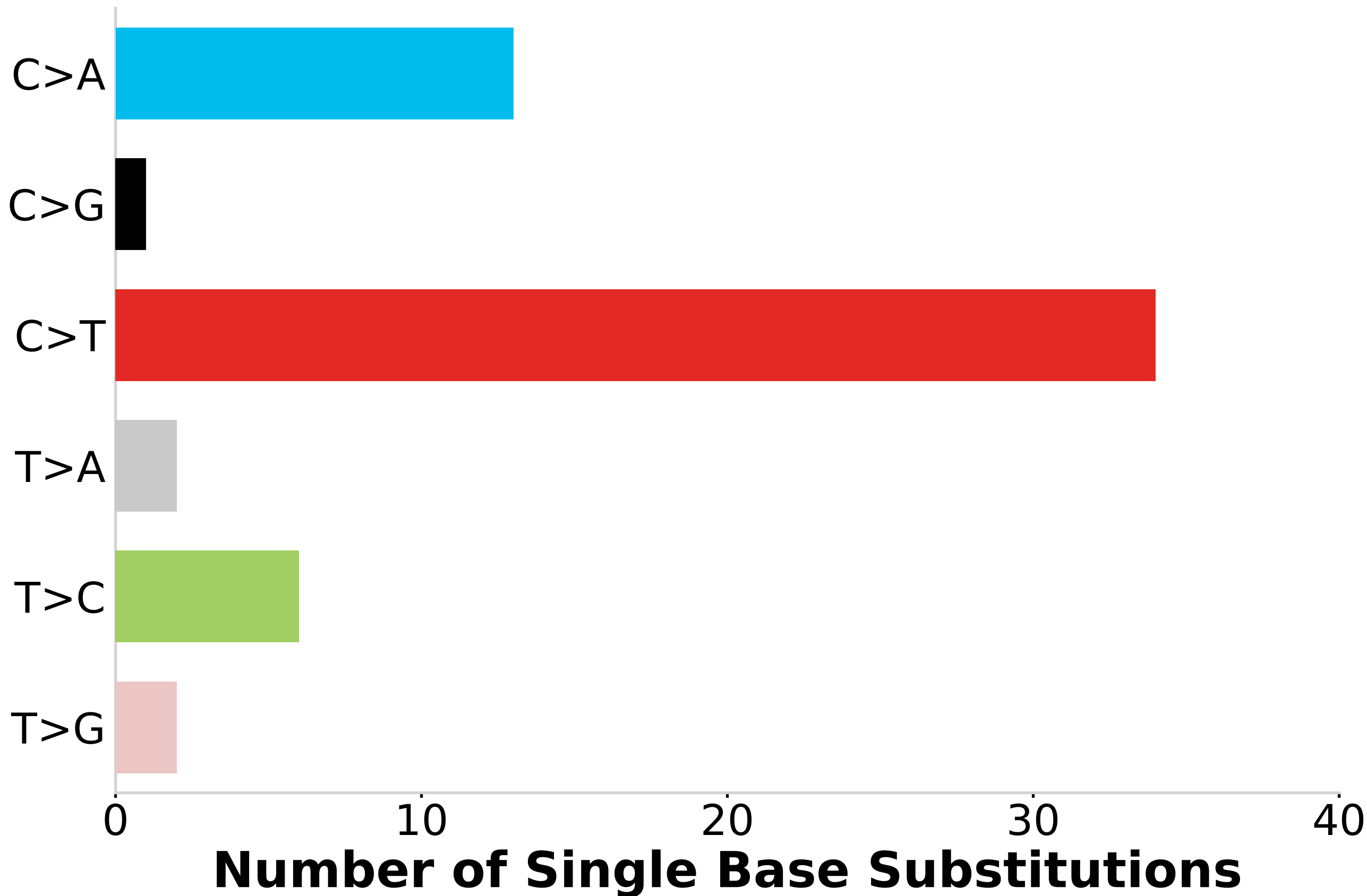
TCGA-4Z-AA7Q-01A-11D-A391-08: 242 sub



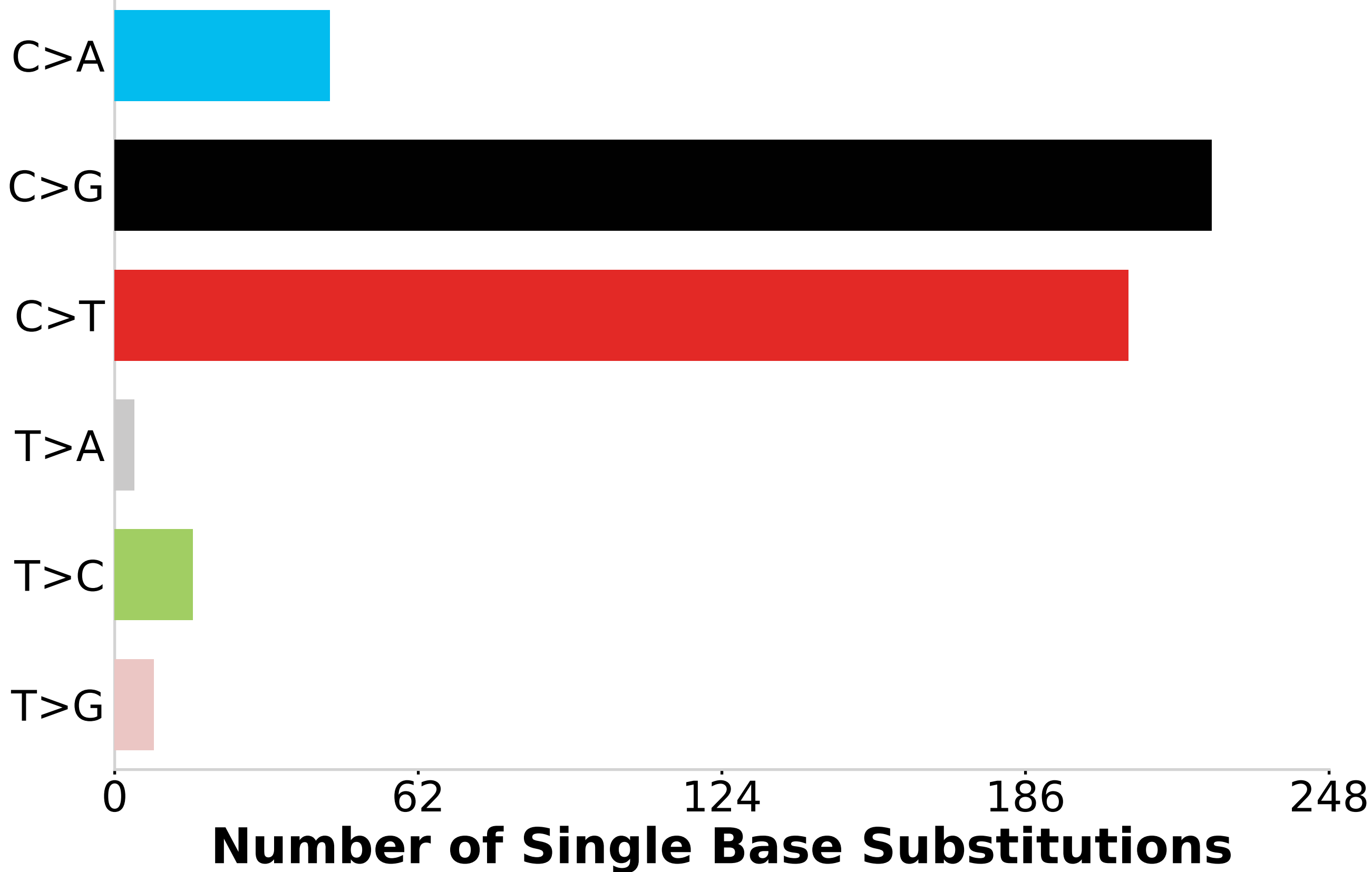
TCGA-4Z-AA7R-01A-11D-A391-08: 346 sub



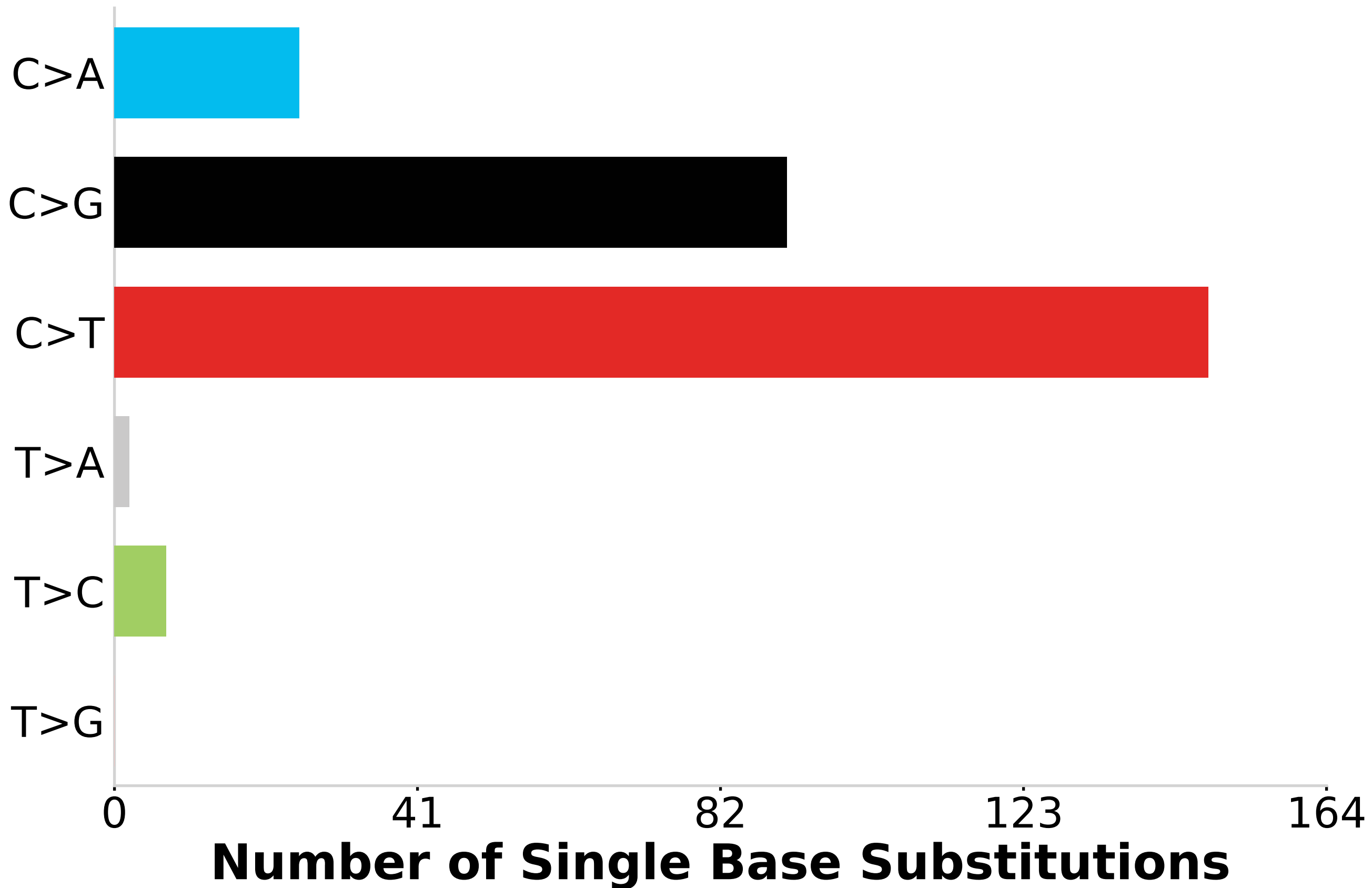
TCGA-4Z-AA7S-01A-11D-A391-08: 58 subs



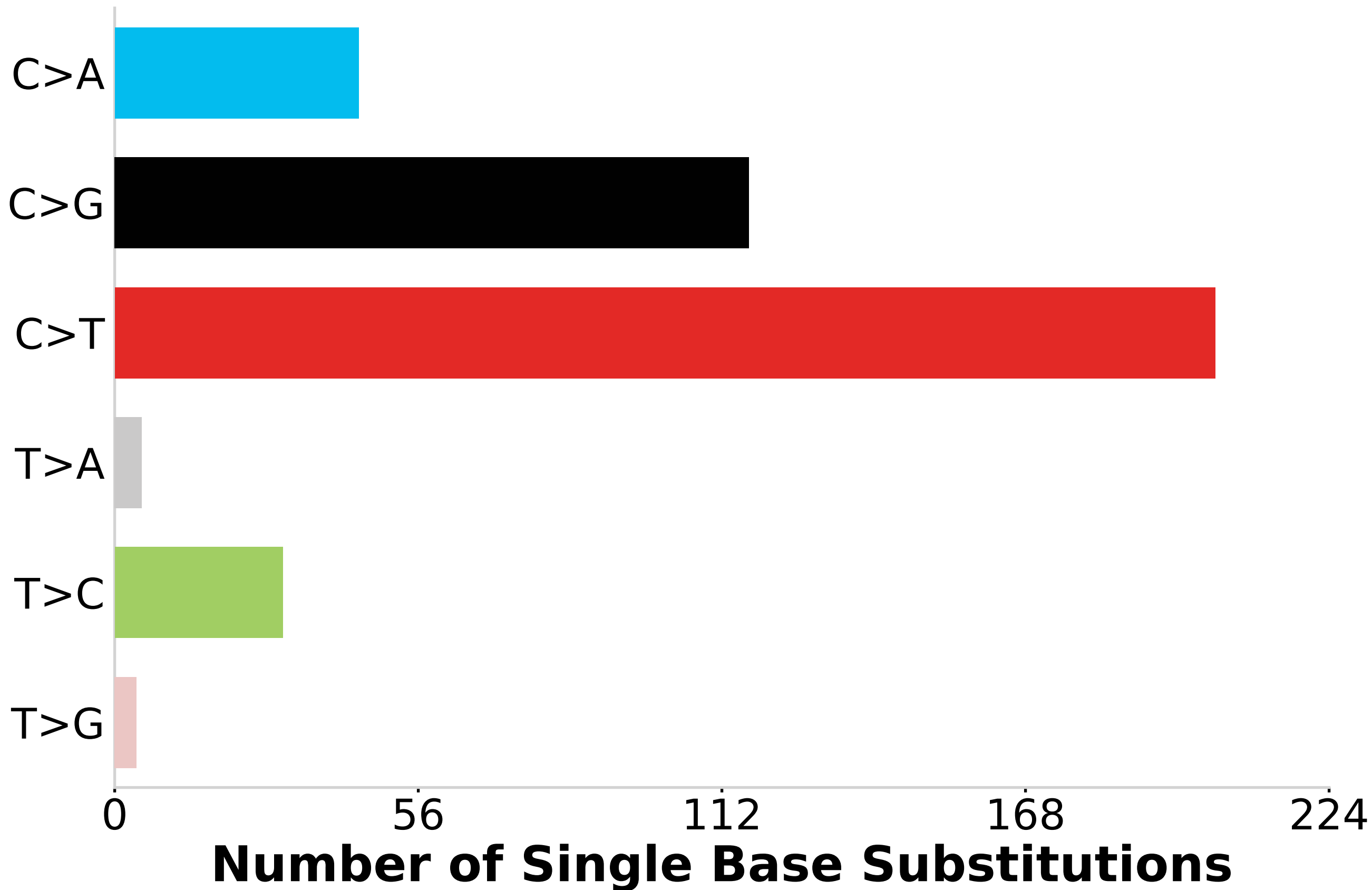
TCGA-4Z-AA7W-01A-11D-A391-08: 503 sub



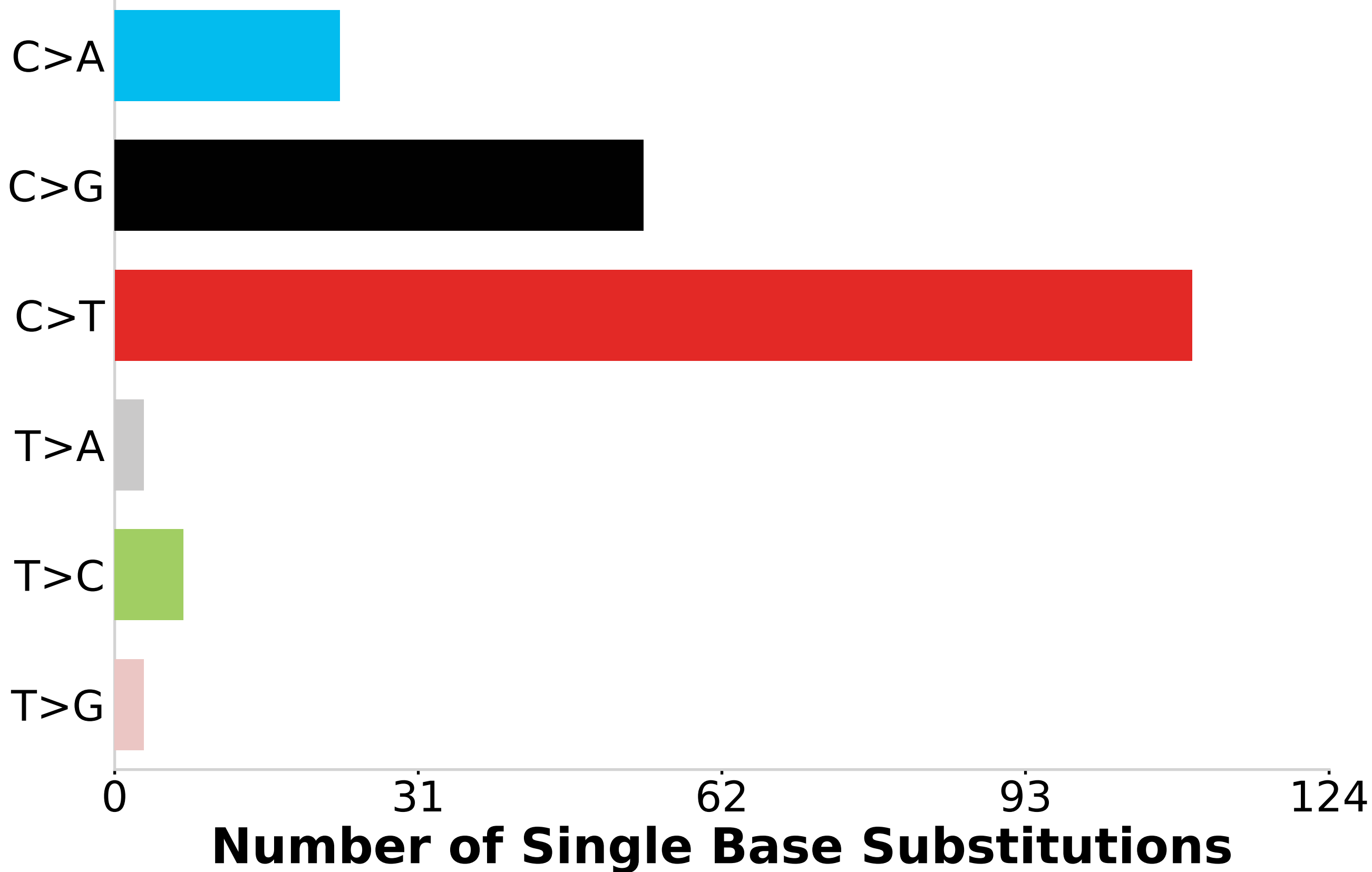
TCGA-4Z-AA7Y-01A-11D-A391-08: 273 sub



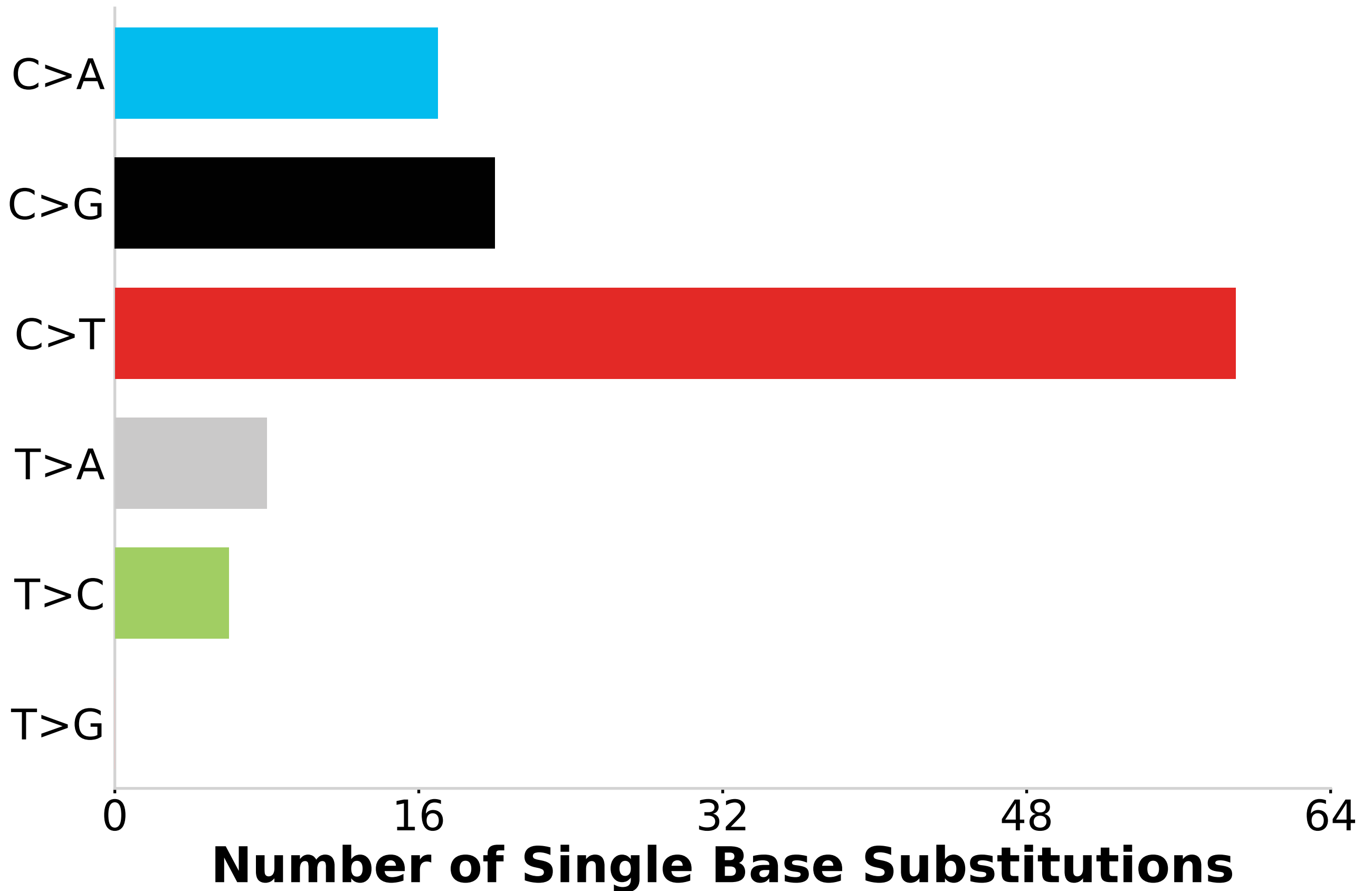
TCGA-4Z-AA80-01A-11D-A391-08: 405 sub



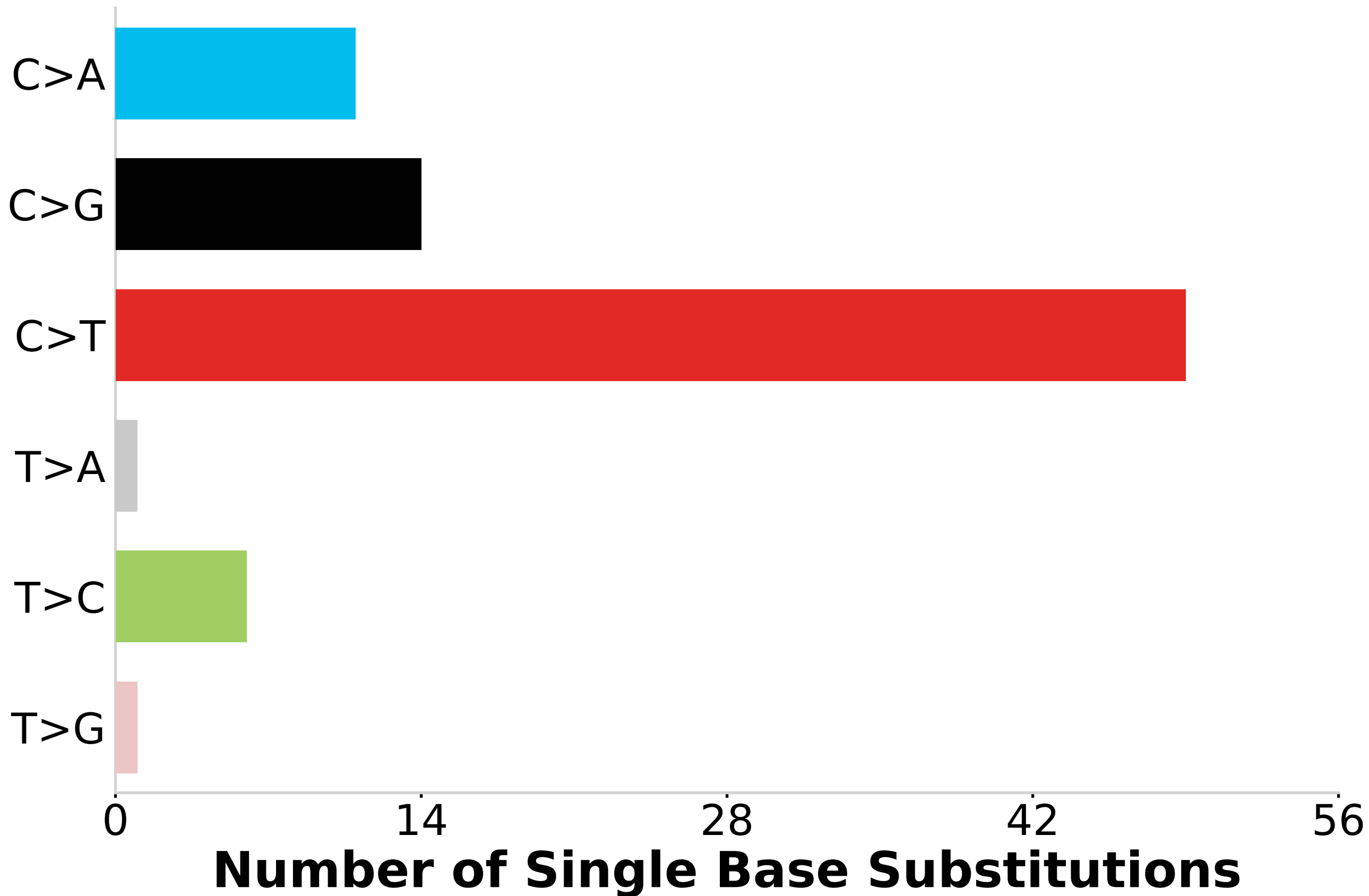
TCGA-4Z-AA81-01A-11D-A391-08: 200 sub



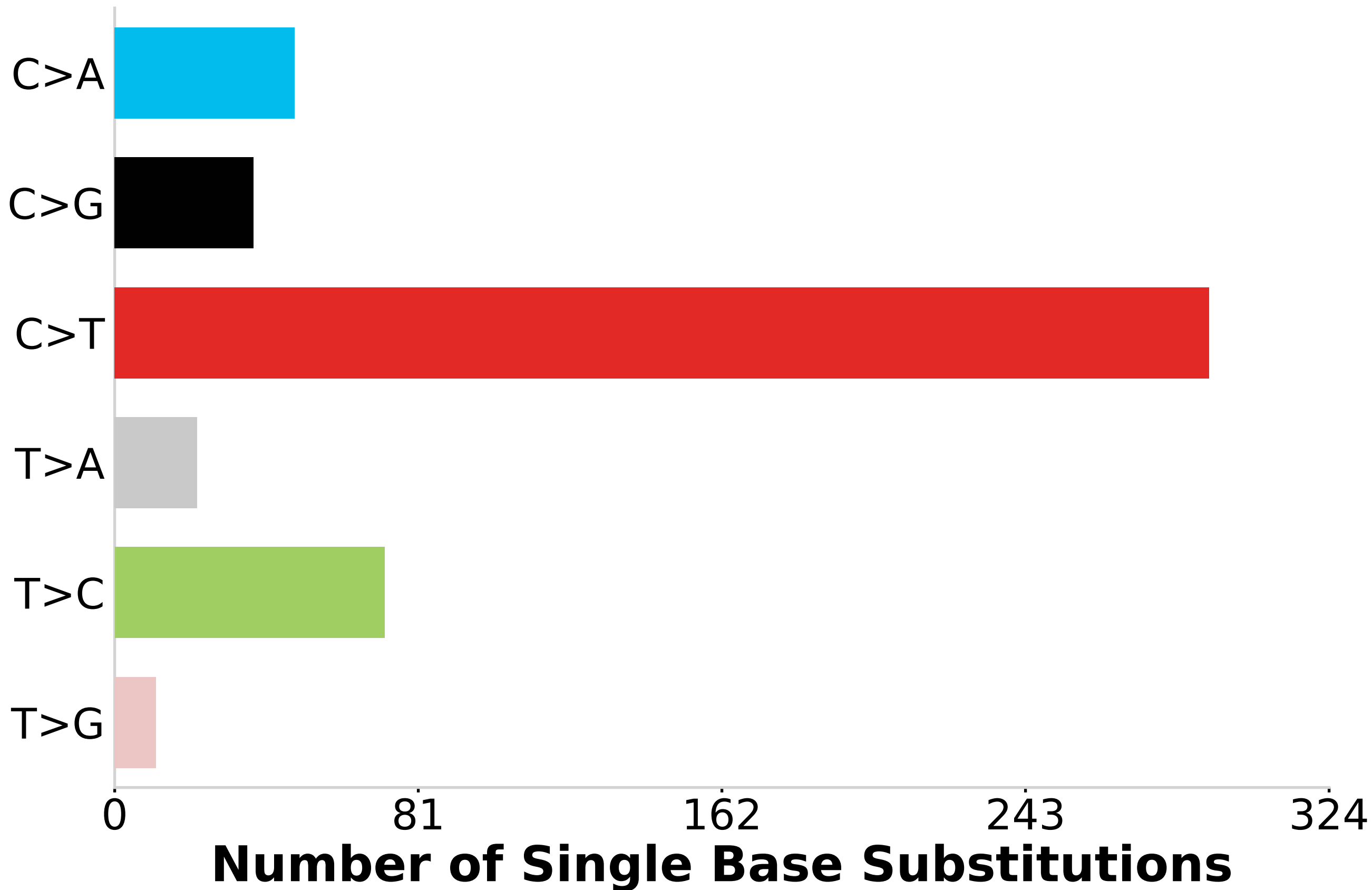
TCGA-4Z-AA82-01A-11D-A391-08: 110 sub



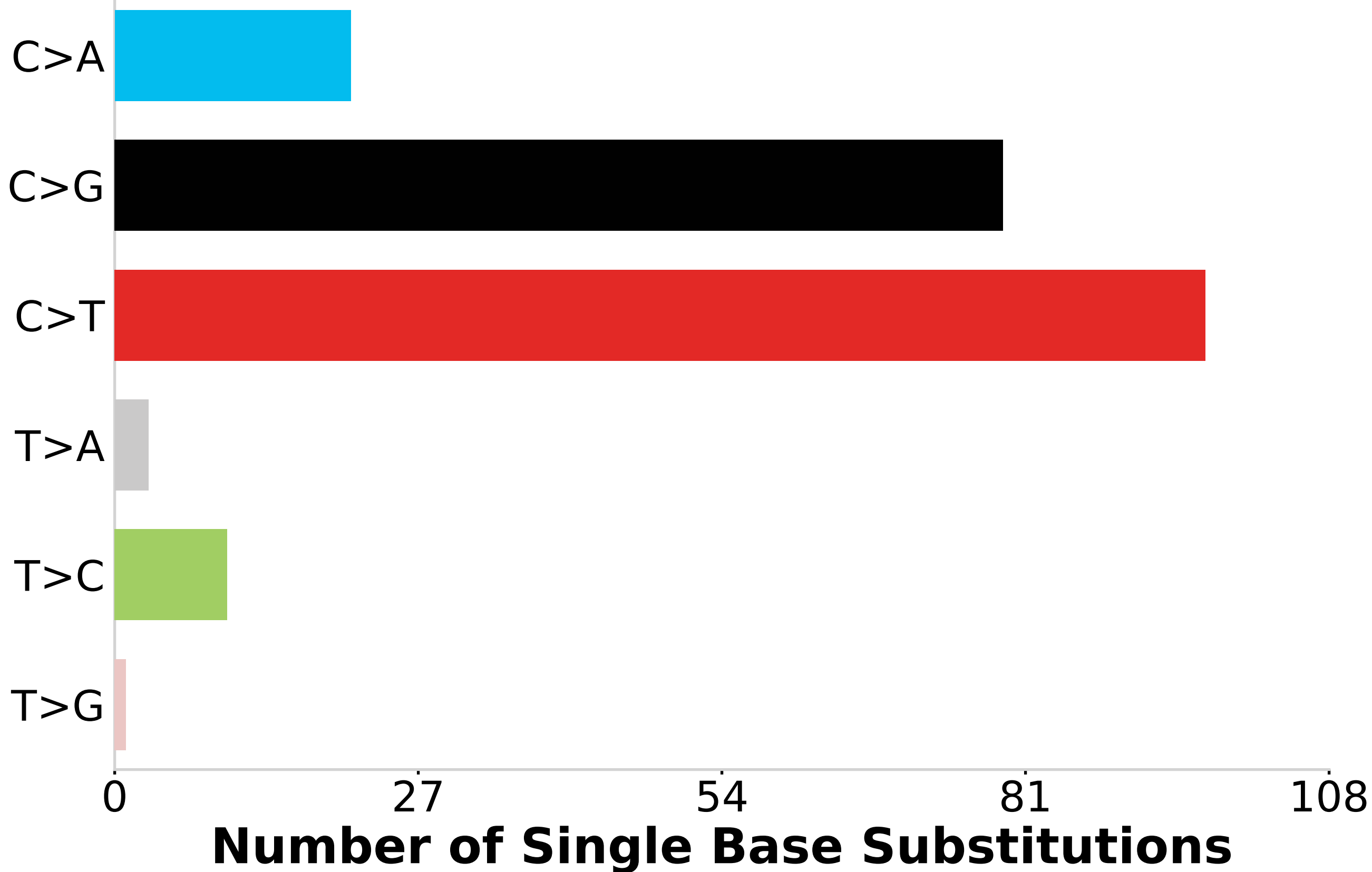
TCGA-4Z-AA83-01A-11D-A391-08: 82 subs



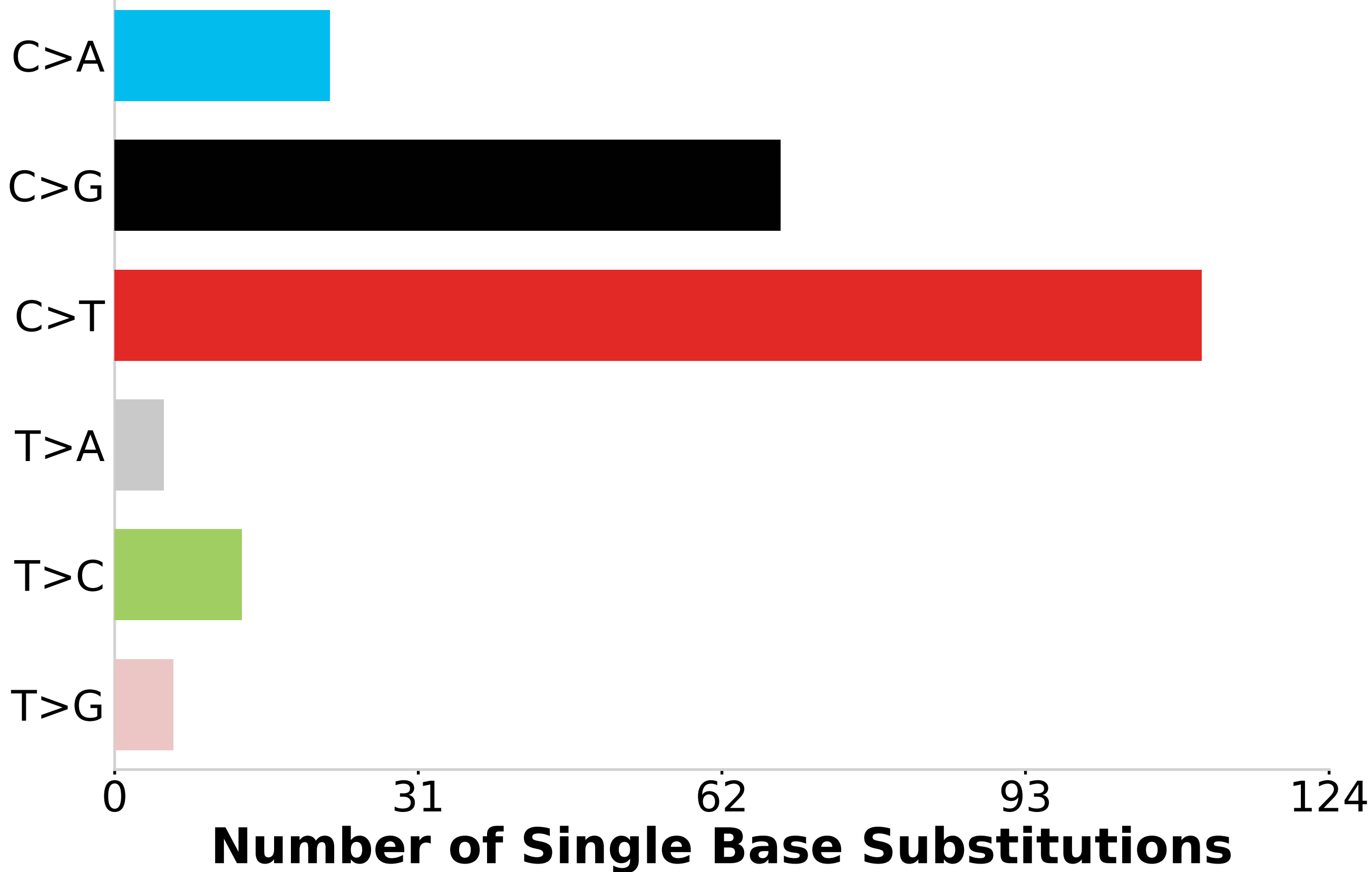
TCGA-4Z-AA84-01A-11D-A391-08: 482 sub



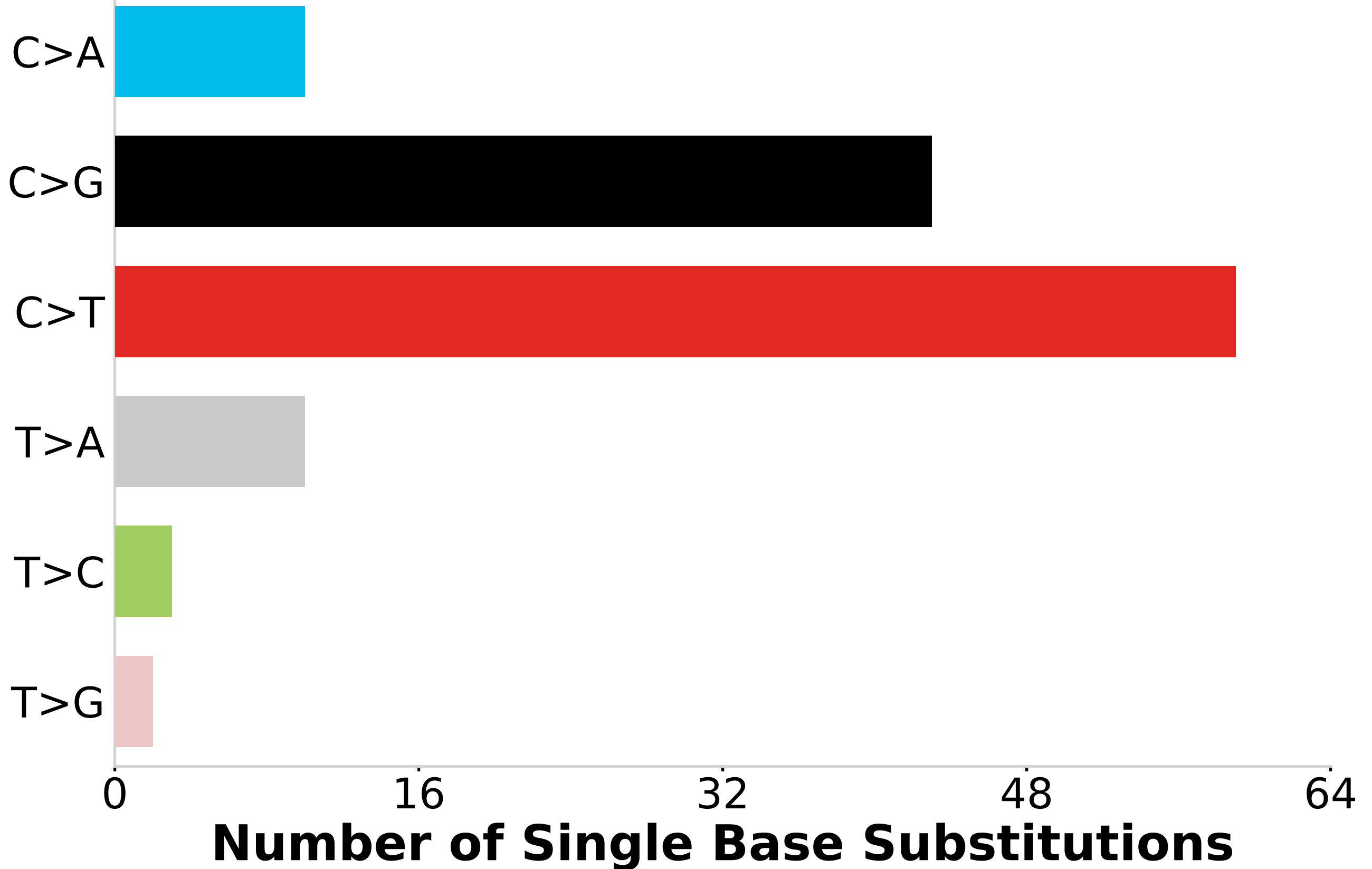
TCGA-4Z-AA86-01A-11D-A391-08: 211 sub



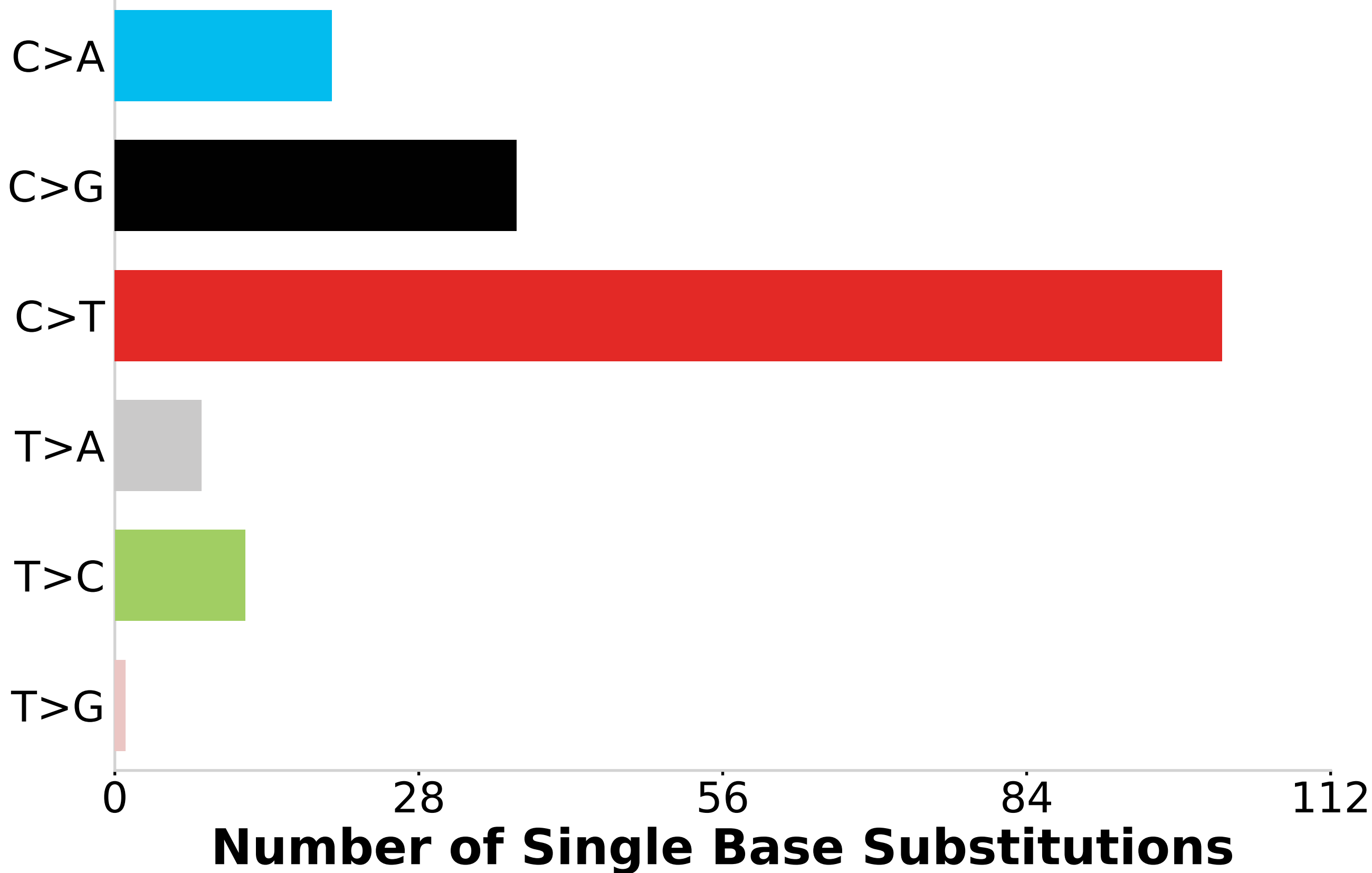
TCGA-4Z-AA87-01A-11D-A391-08: 225 sub



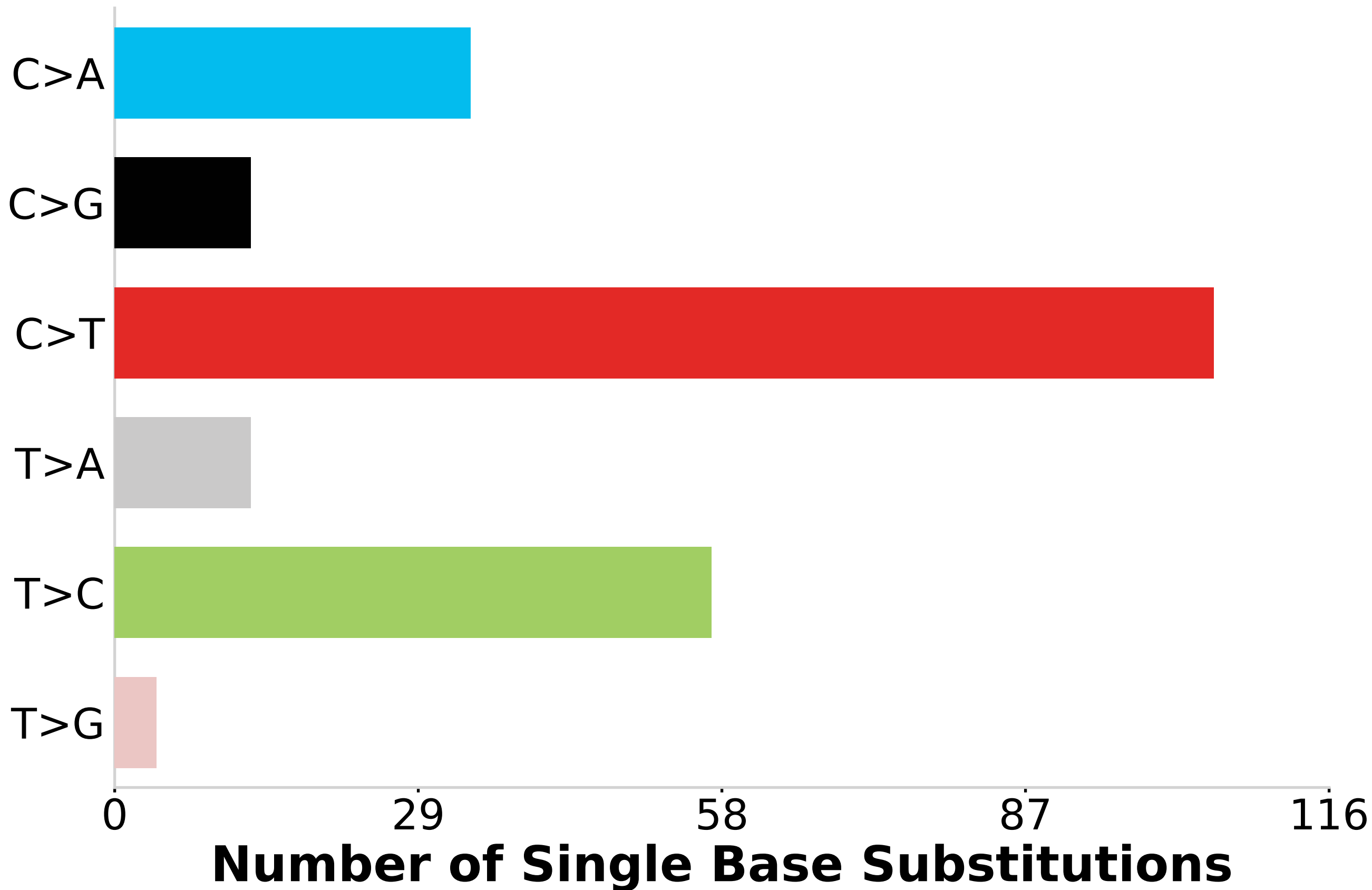
TCGA-4Z-AA89-01A-11D-A391-08: 127 sub



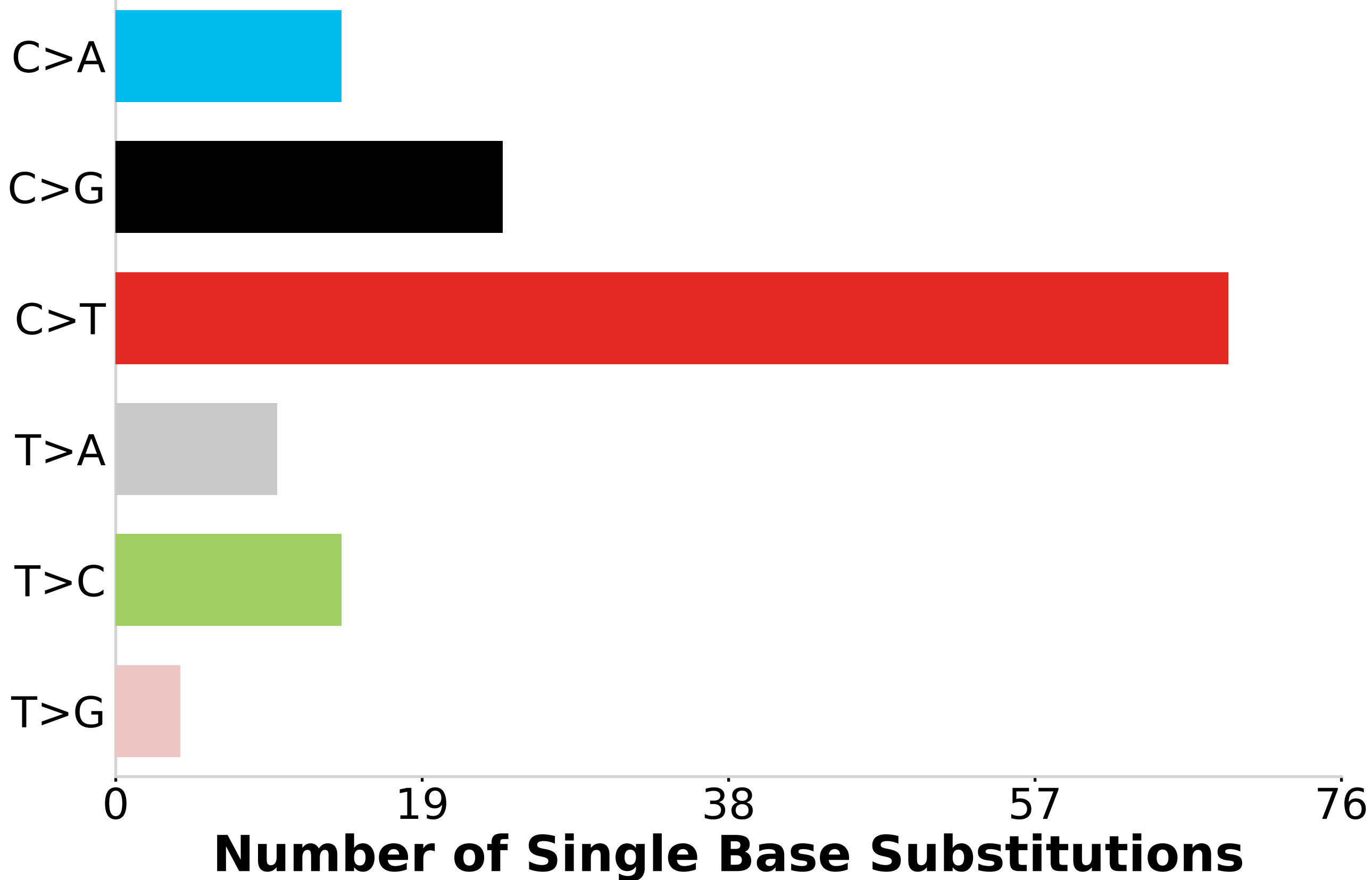
TCGA-5N-A9KI-01A-31D-A42E-08: 180 subs



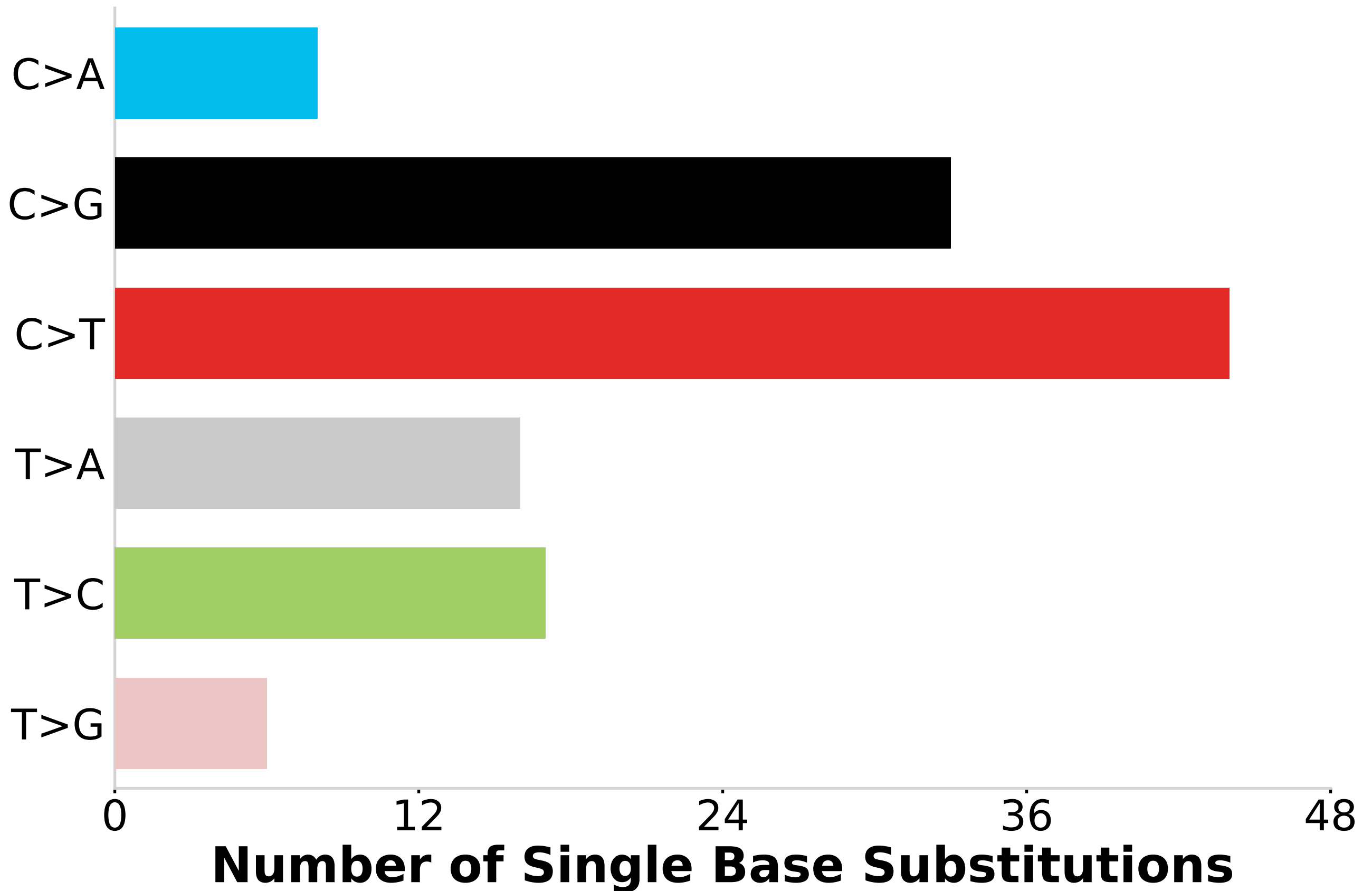
TCGA-5N-A9KM-01A-11D-A42E-08: 226 sub



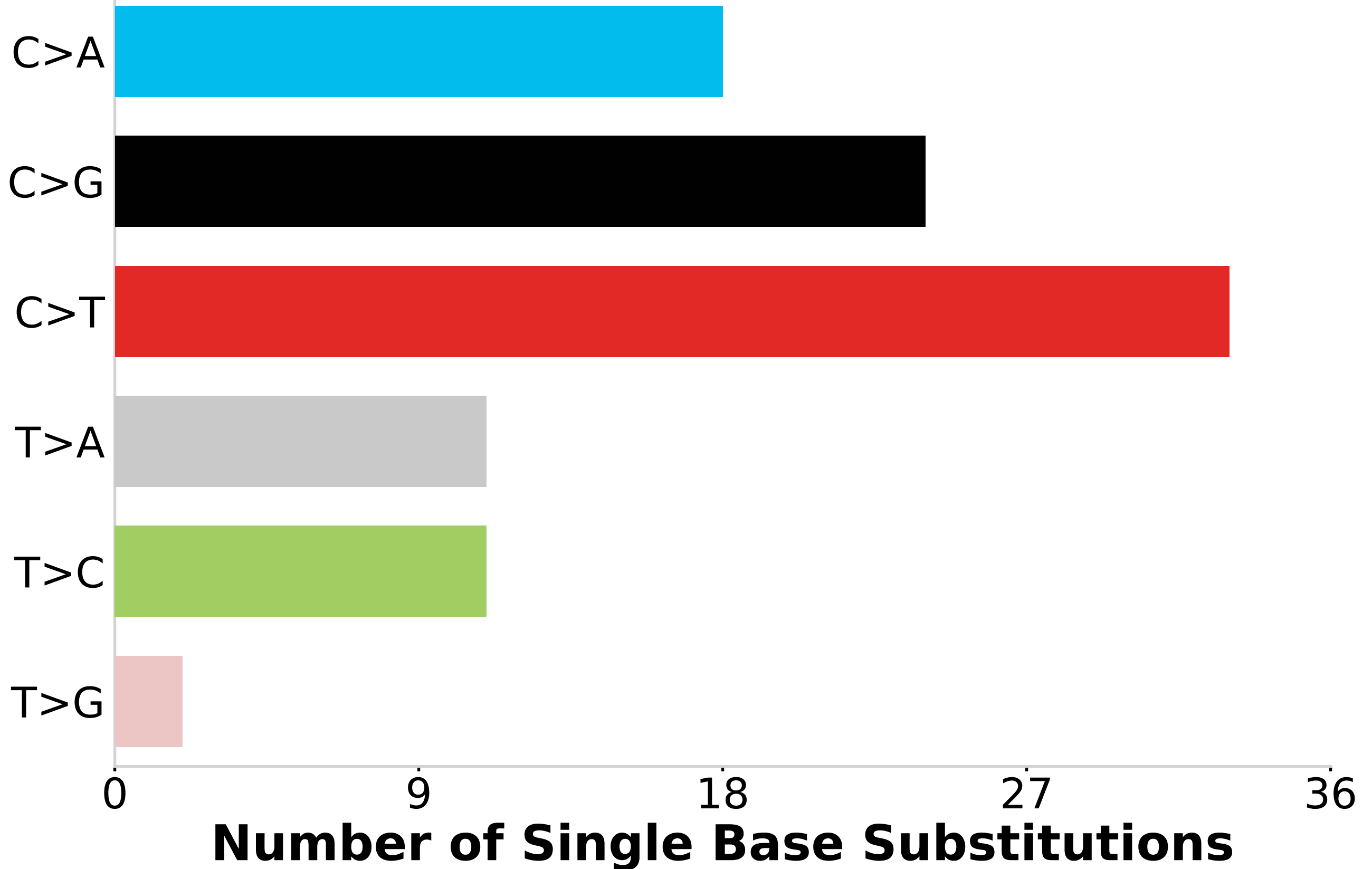
TCGA-BL-A0C8-01A-11D-A271-08: 135 sub



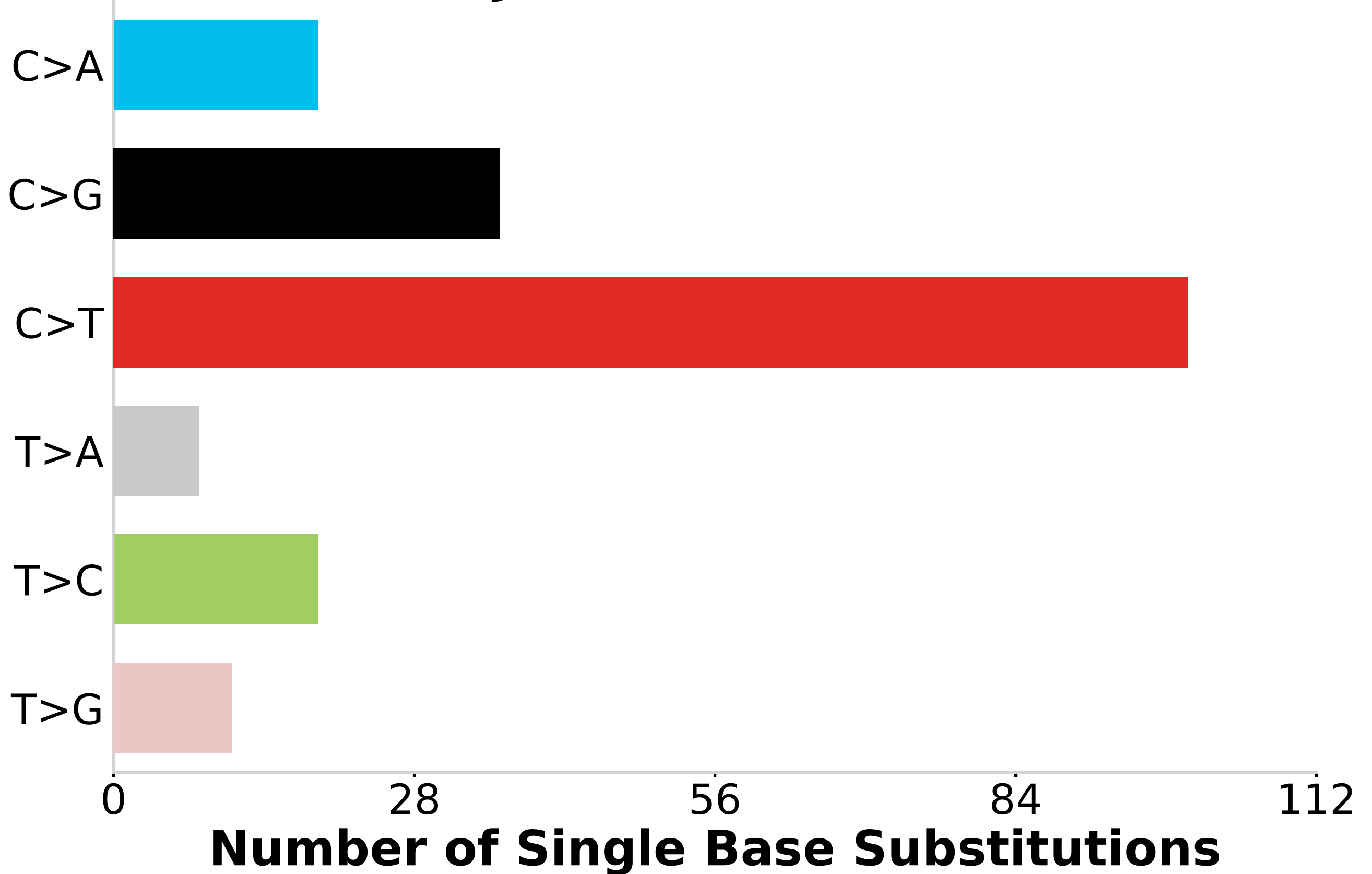
TCGA-BL-A13I-01A-11D-A271-08: 124 subs



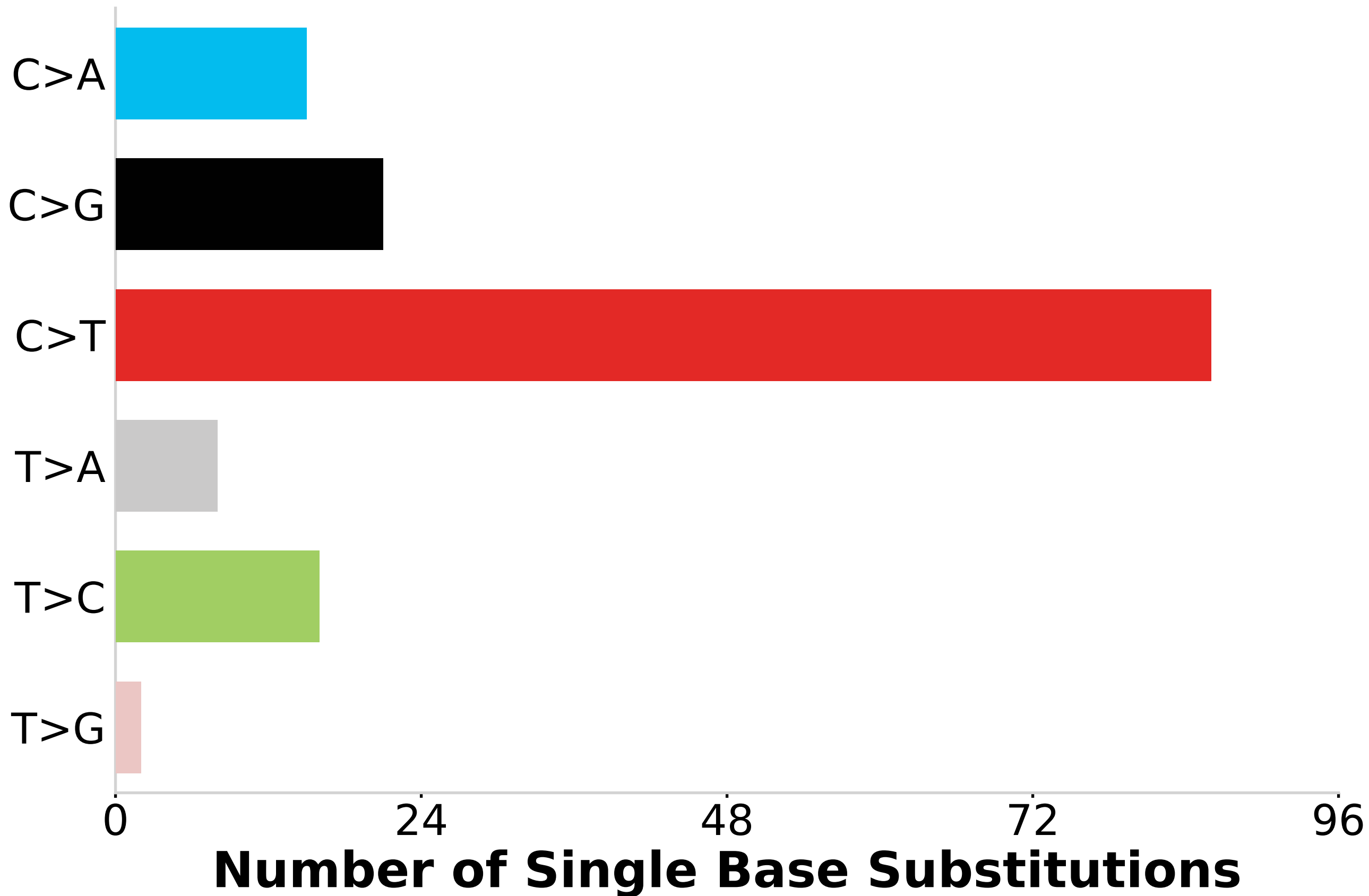
TCGA-BL-A13J-01A-11D-A271-08: 99 subs



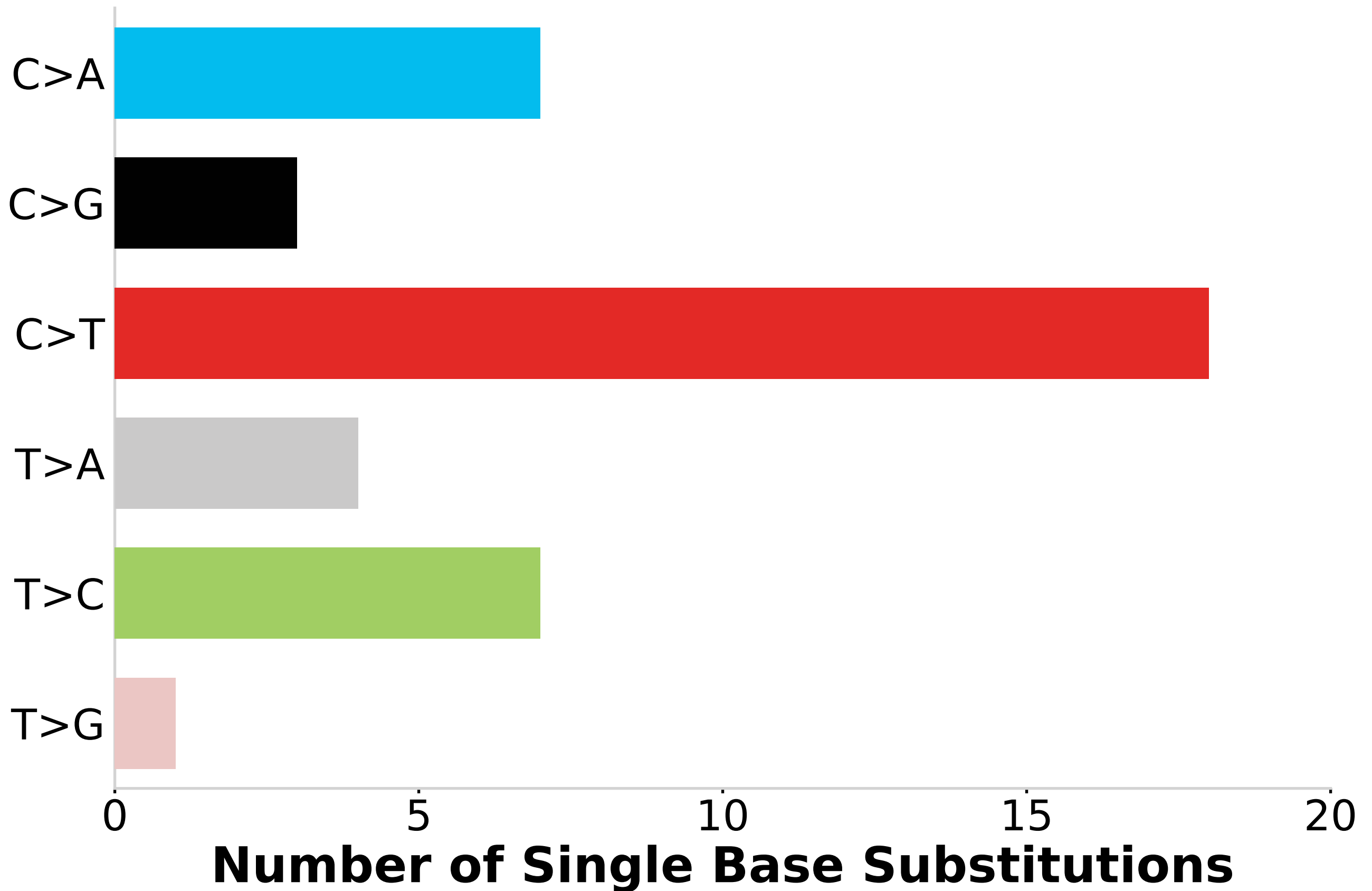
TCGA-BL-A3JM-01A-12D-A21A-08: 193 sub



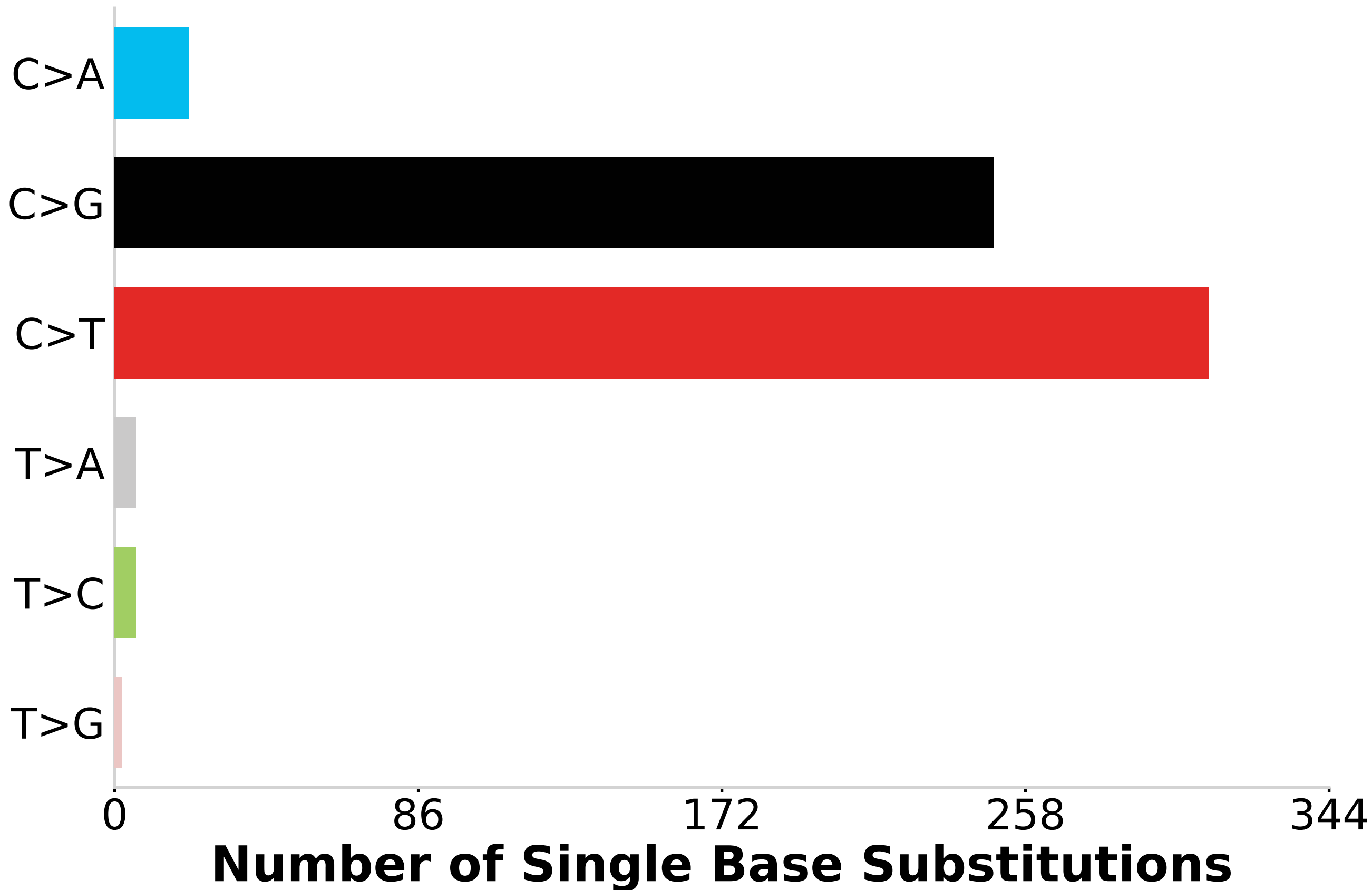
TCGA-BL-A5ZZ-01A-31D-A30E-08: 148 sub



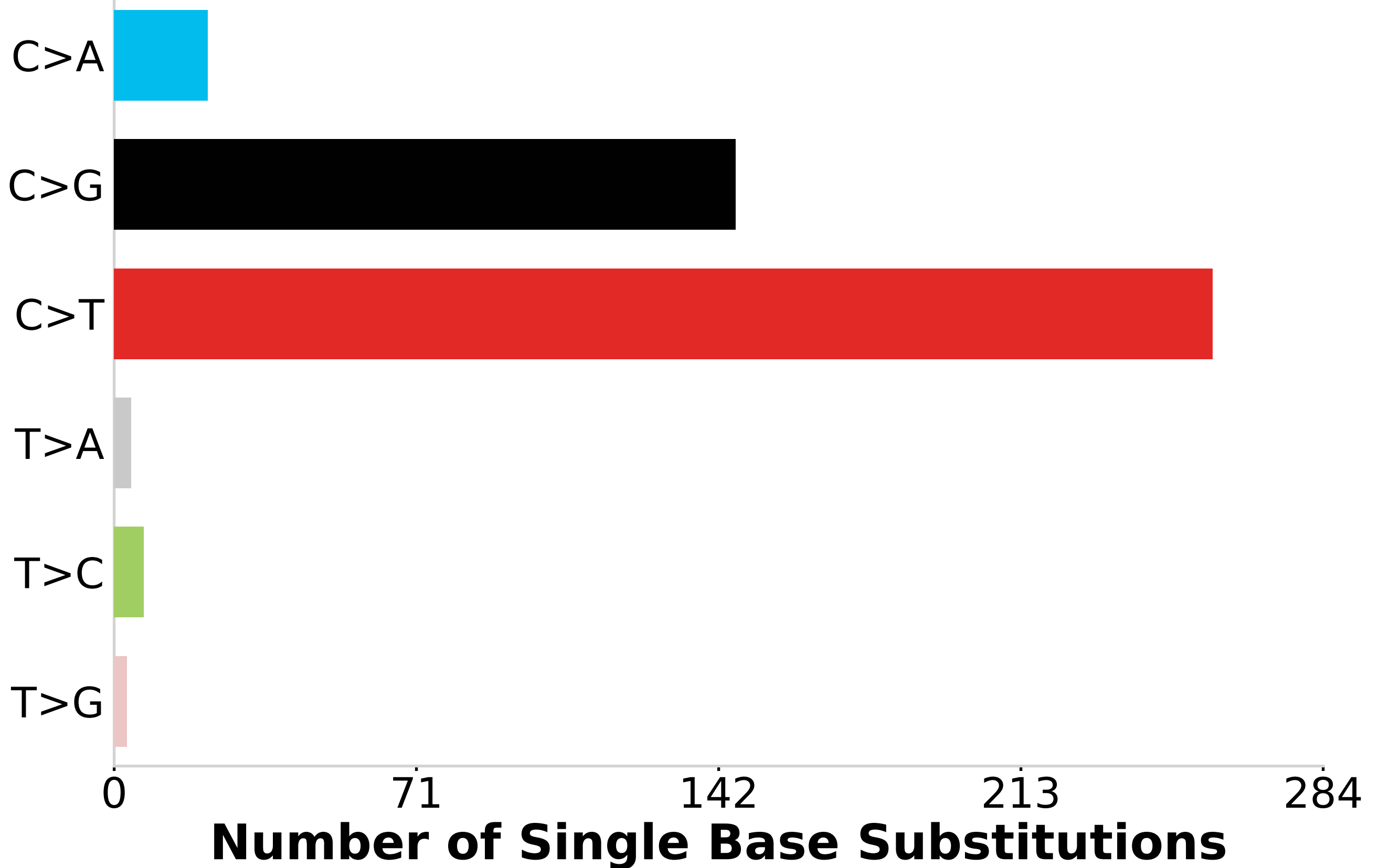
TCGA-BT-A0S7-01A-11D-A10S-08: 40 subs



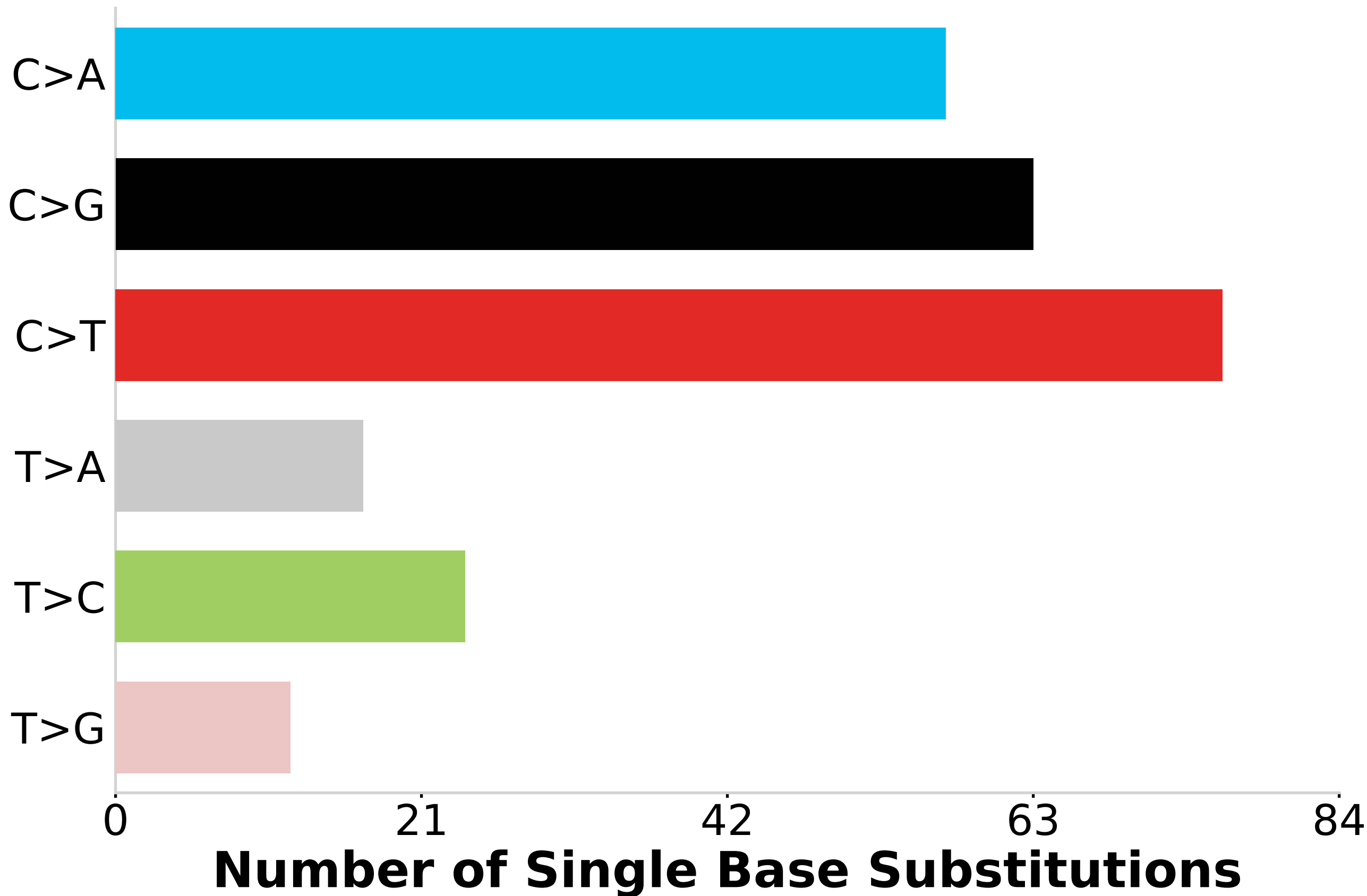
TCGA-BT-A0YX-01A-11D-A10S-08: 594 sub



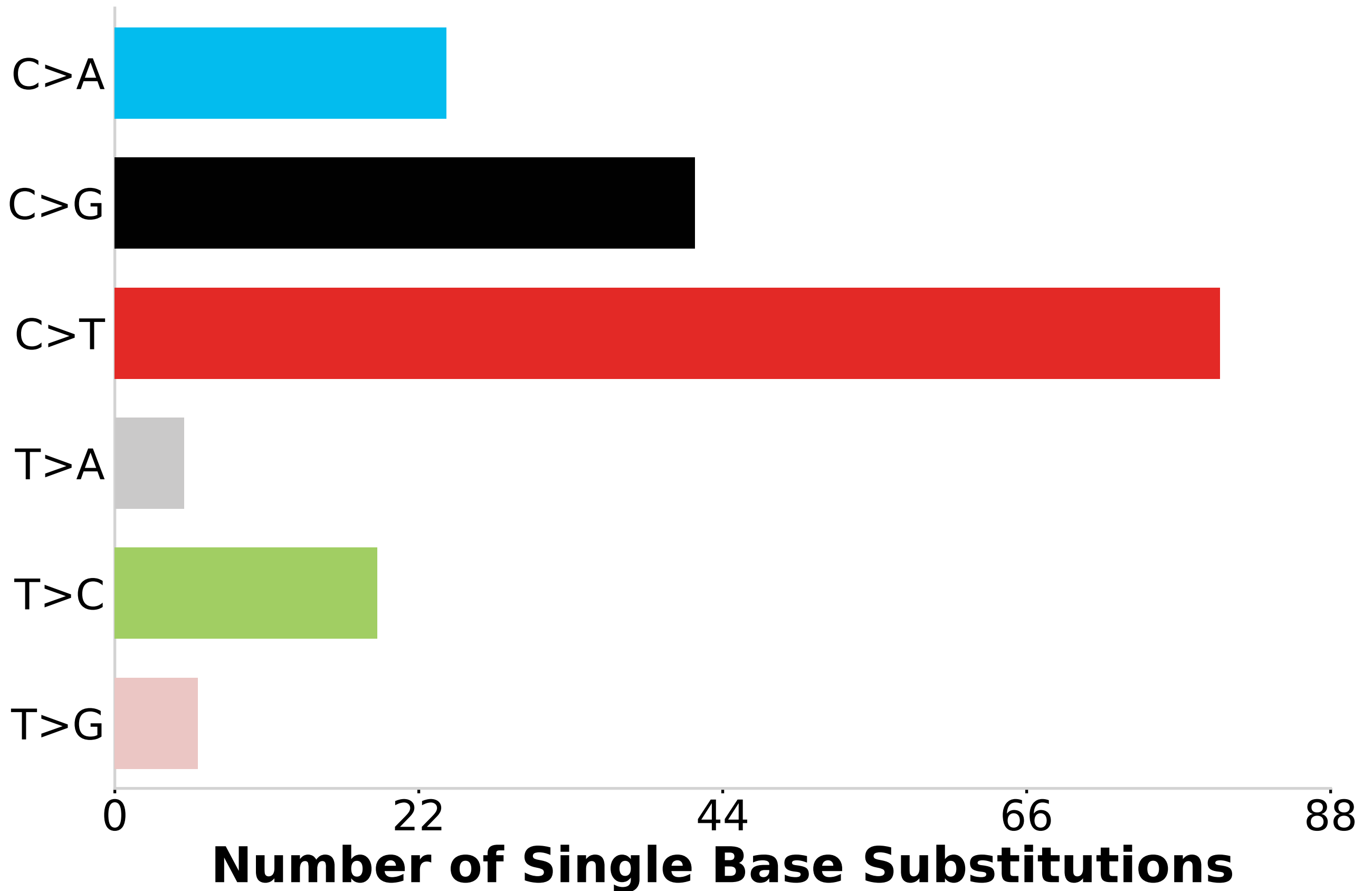
TCGA-BT-A20J-01A-11D-A14W-08: 440 sub



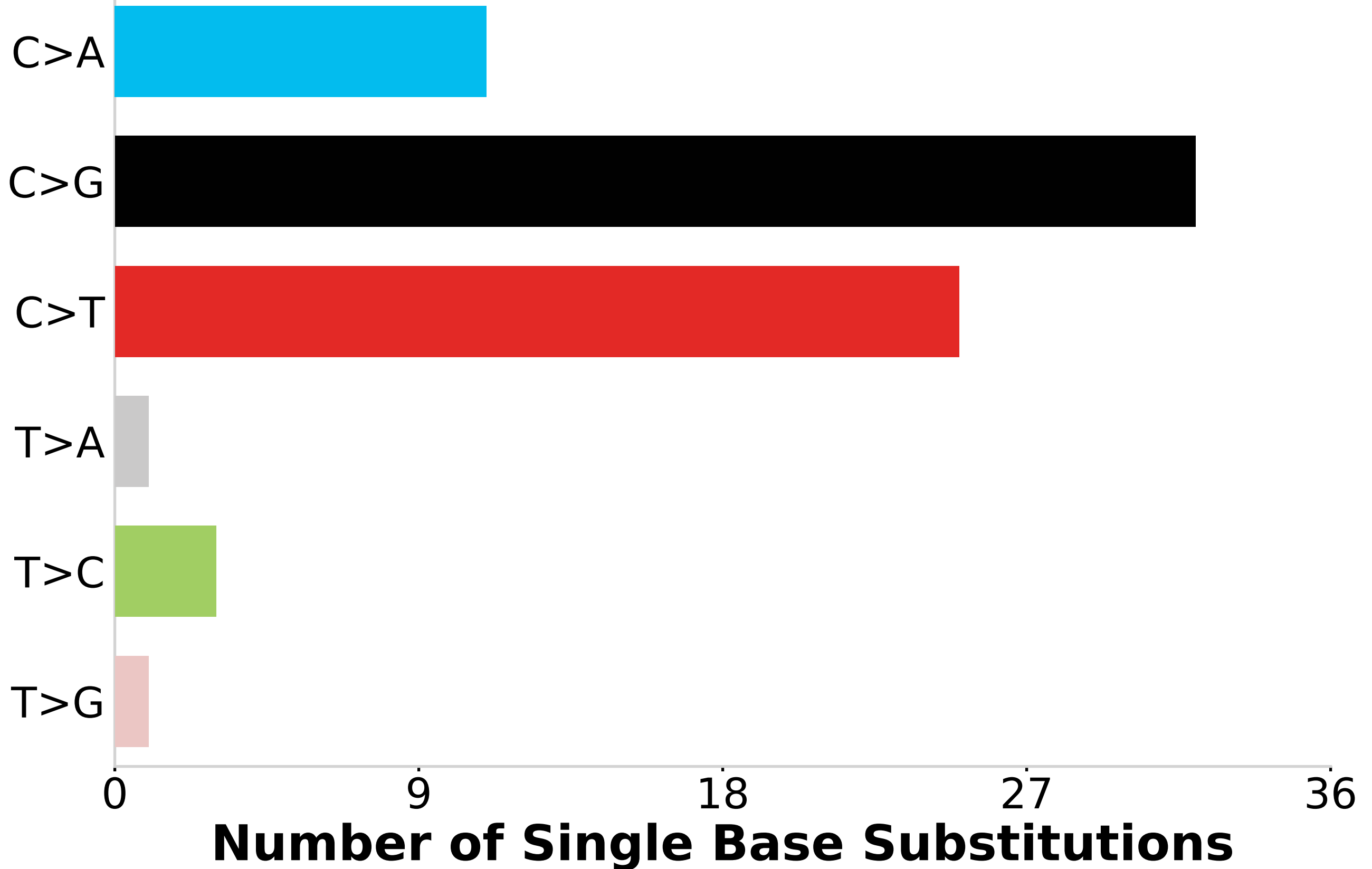
TCGA-BT-A20N-01A-11D-A14W-08: 249 substitutions



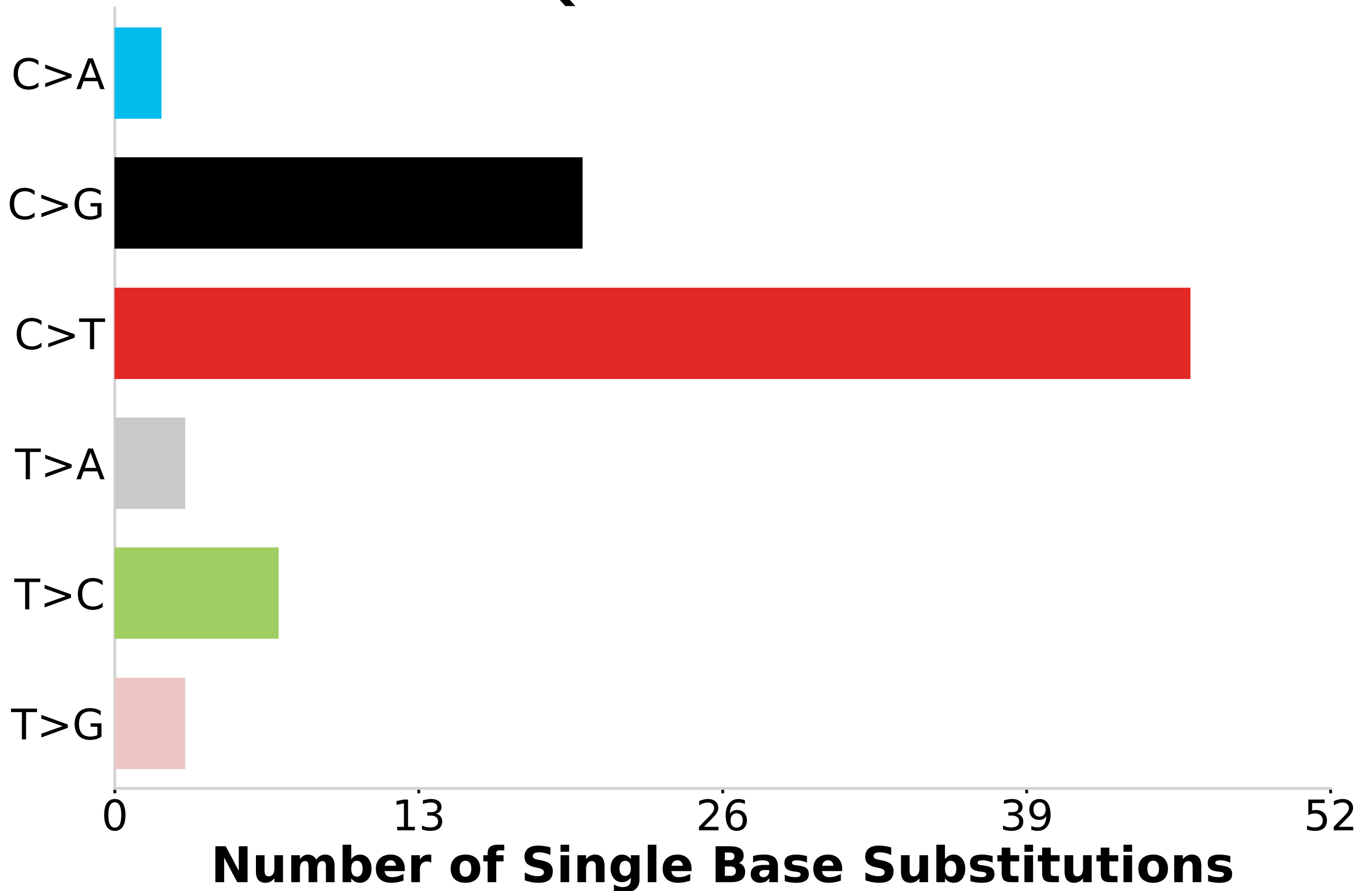
TCGA-BT-A200-01A-21D-A14W-08: 176 substitutions



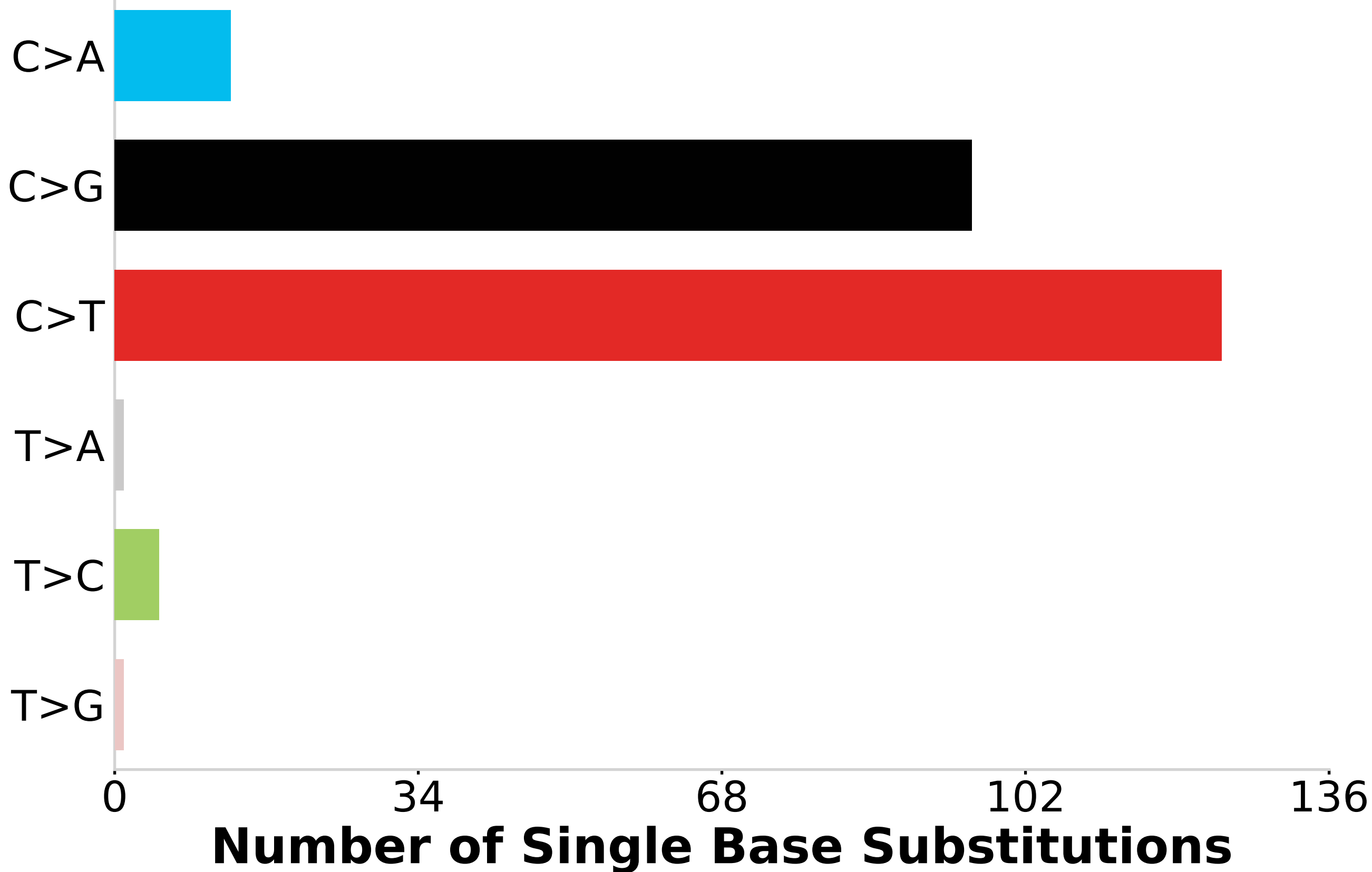
TCGA-BT-A20P-01A-11D-A14W-08: 73 subs



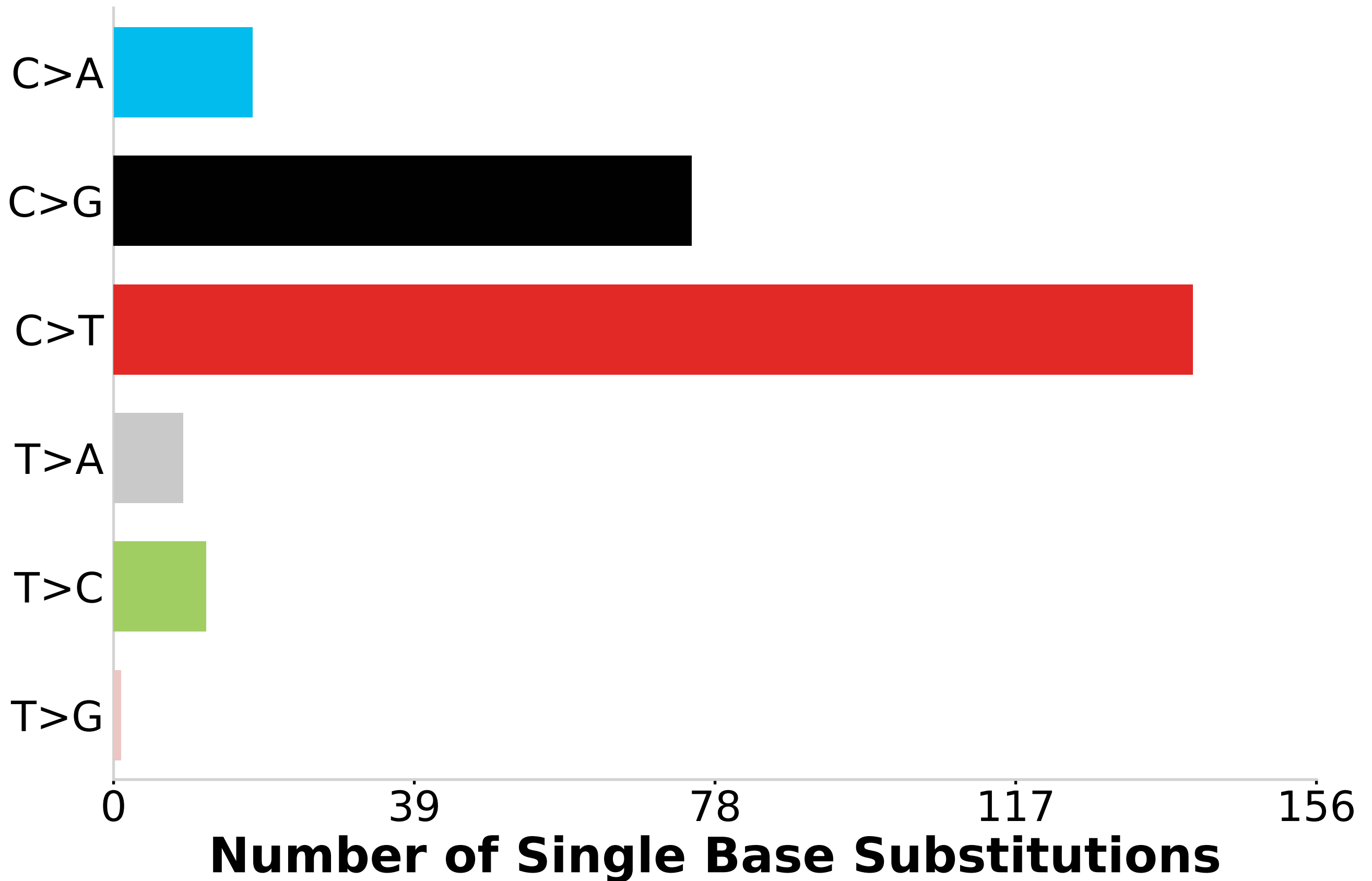
TCGA-BT-A20Q-01A-11D-A14W-08: 81 subs



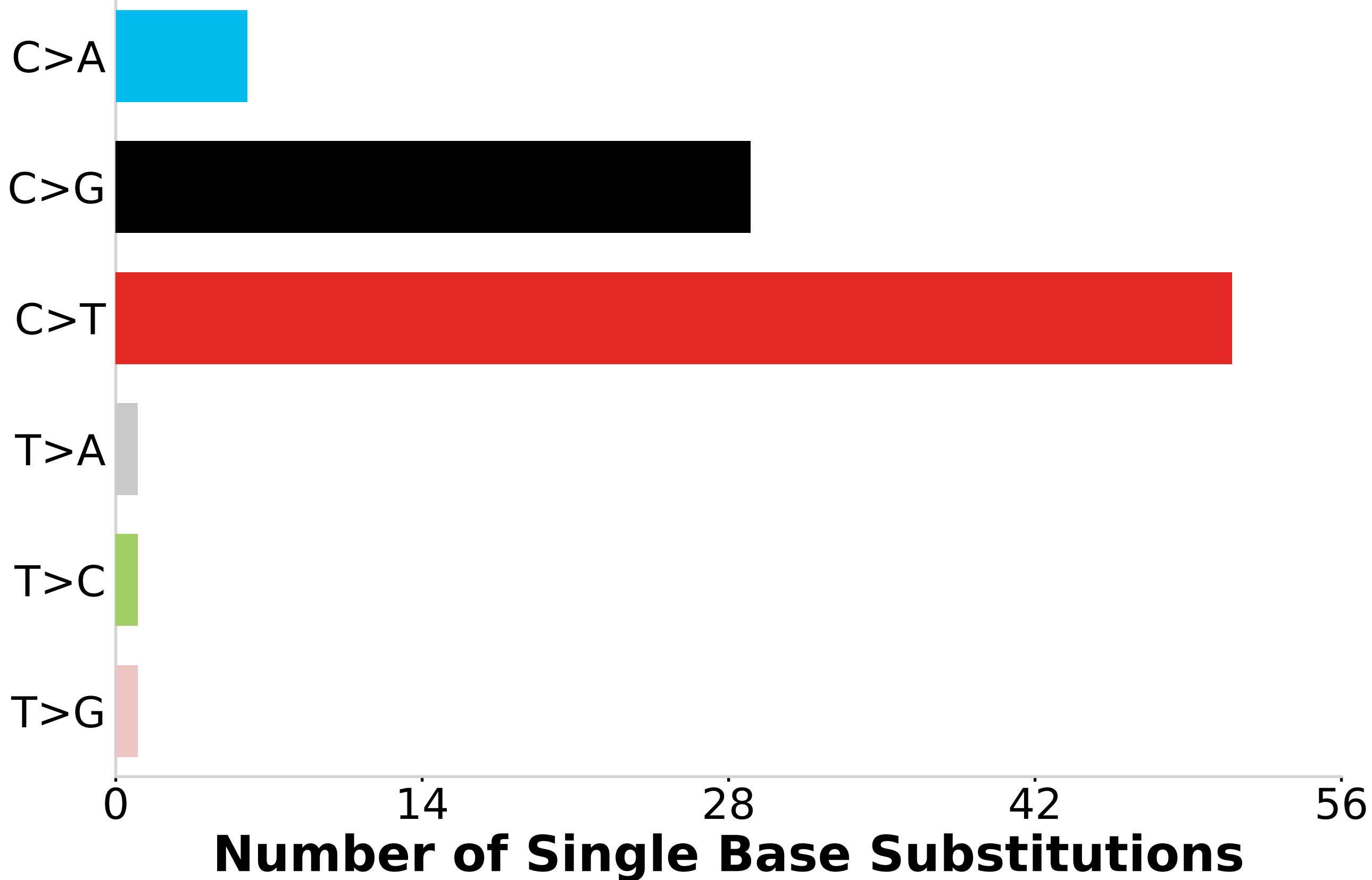
TCGA-BT-A20R-01A-12D-A16O-08: 240 sub



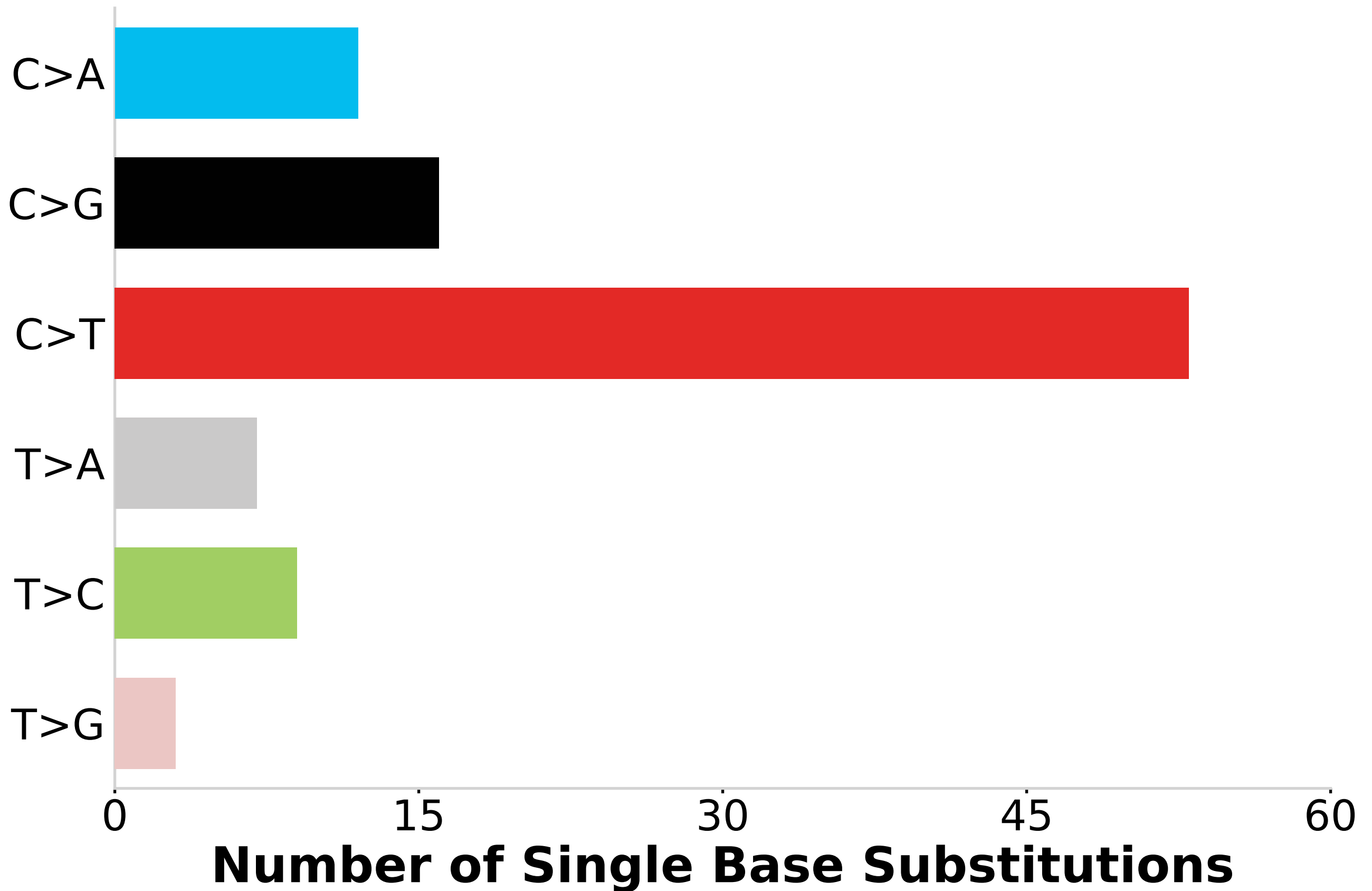
TCGA-BT-A20T-01A-11D-A14W-08: 255 sub



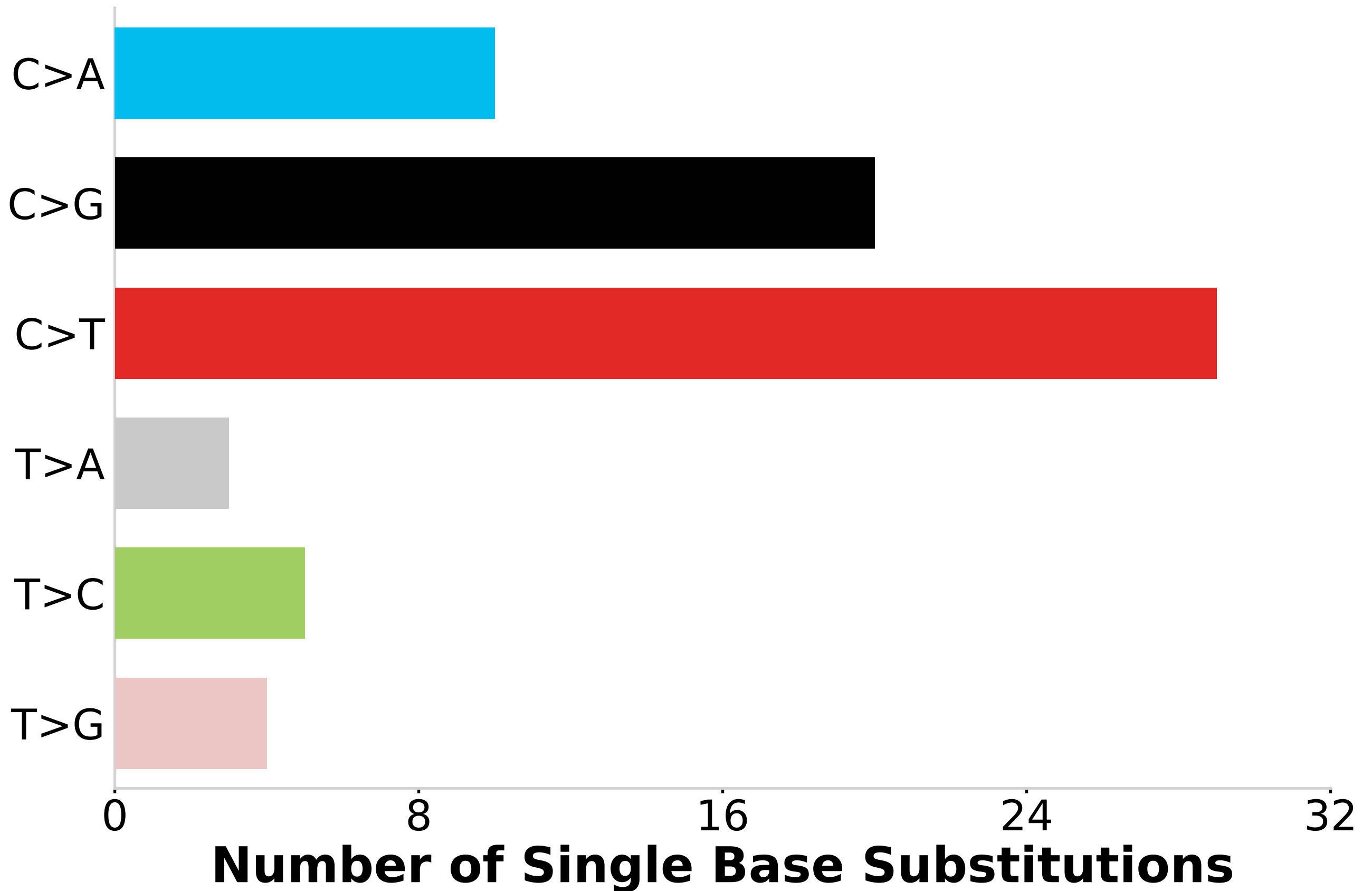
TCGA-BT-A20U-01A-11D-A14W-08: 89 subs



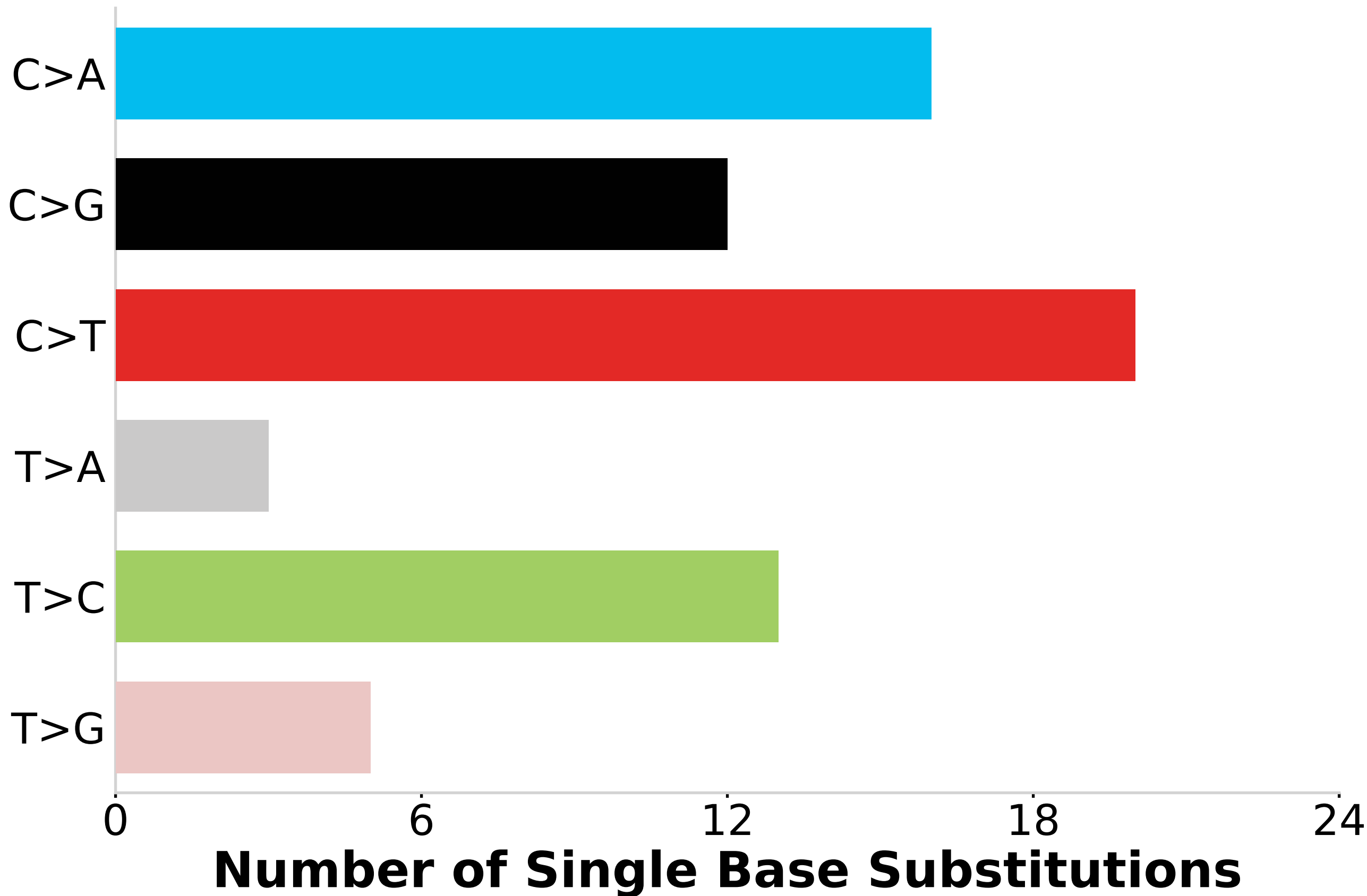
TCGA-BT-A20V-01A-11D-A14W-08: 100 sub



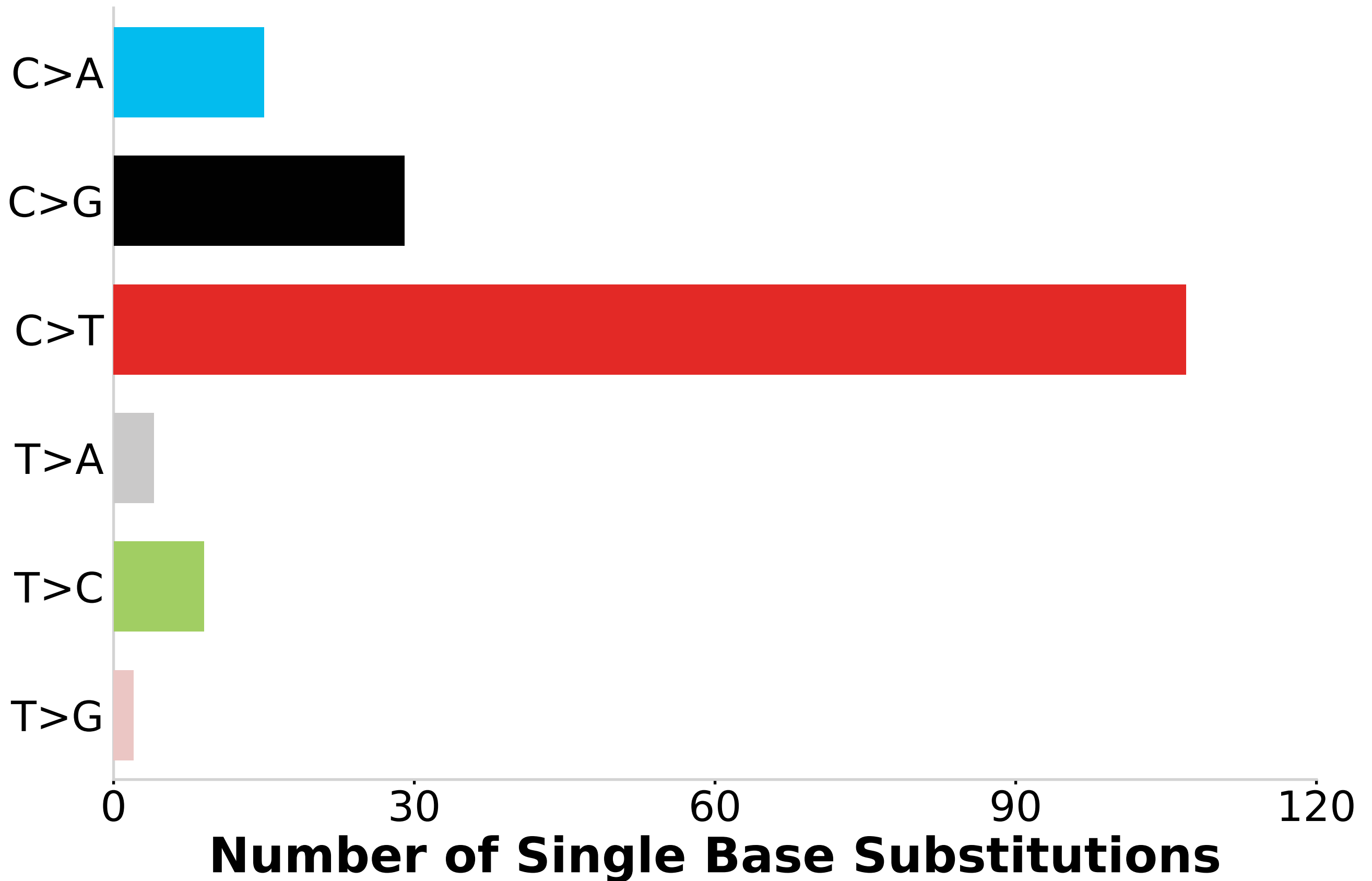
TCGA-BT-A20W-01A-21D-A14W-08: 71 sub



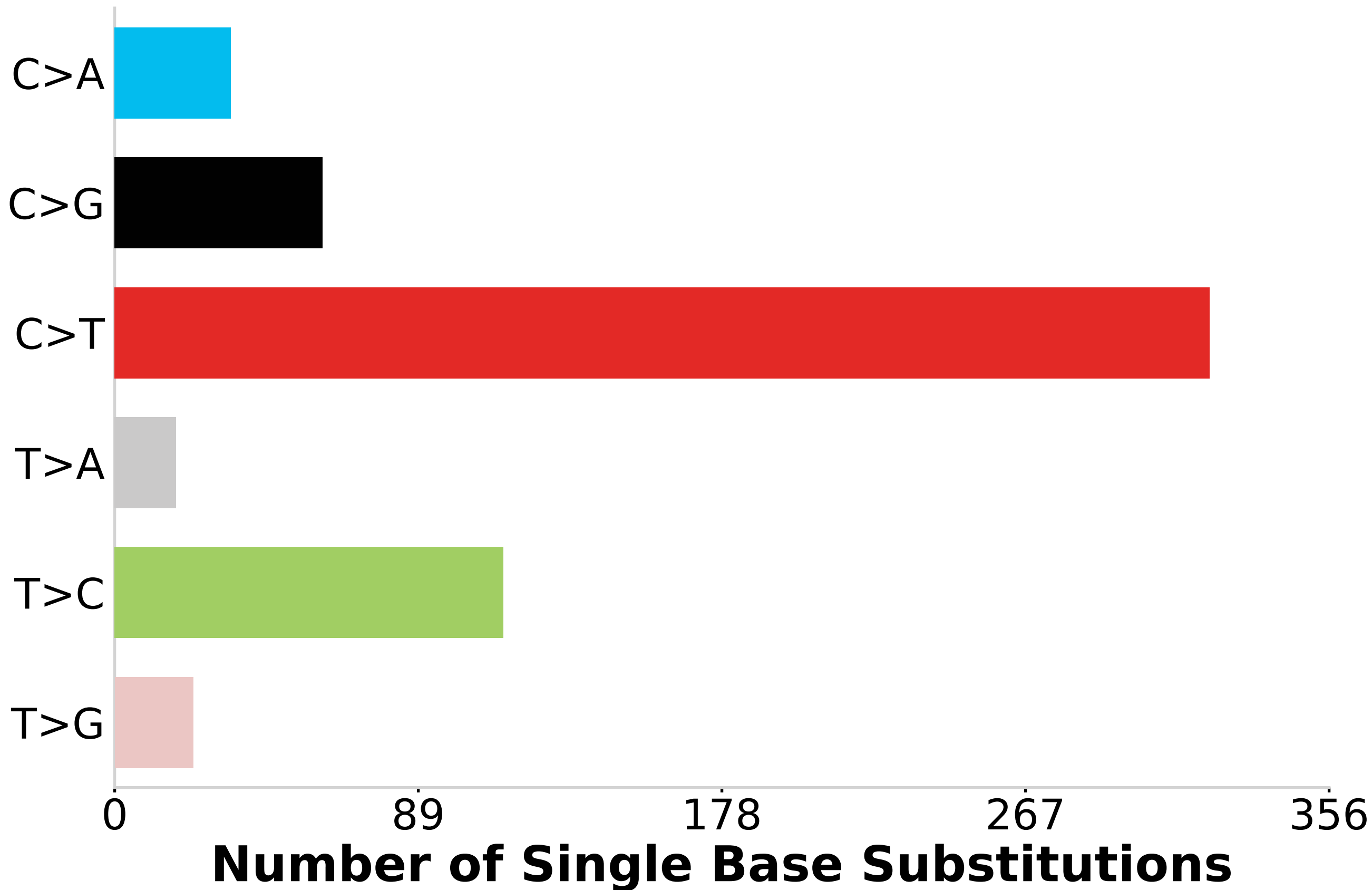
TCGA-BT-A20X-01A-11D-A16O-08: 69 subs



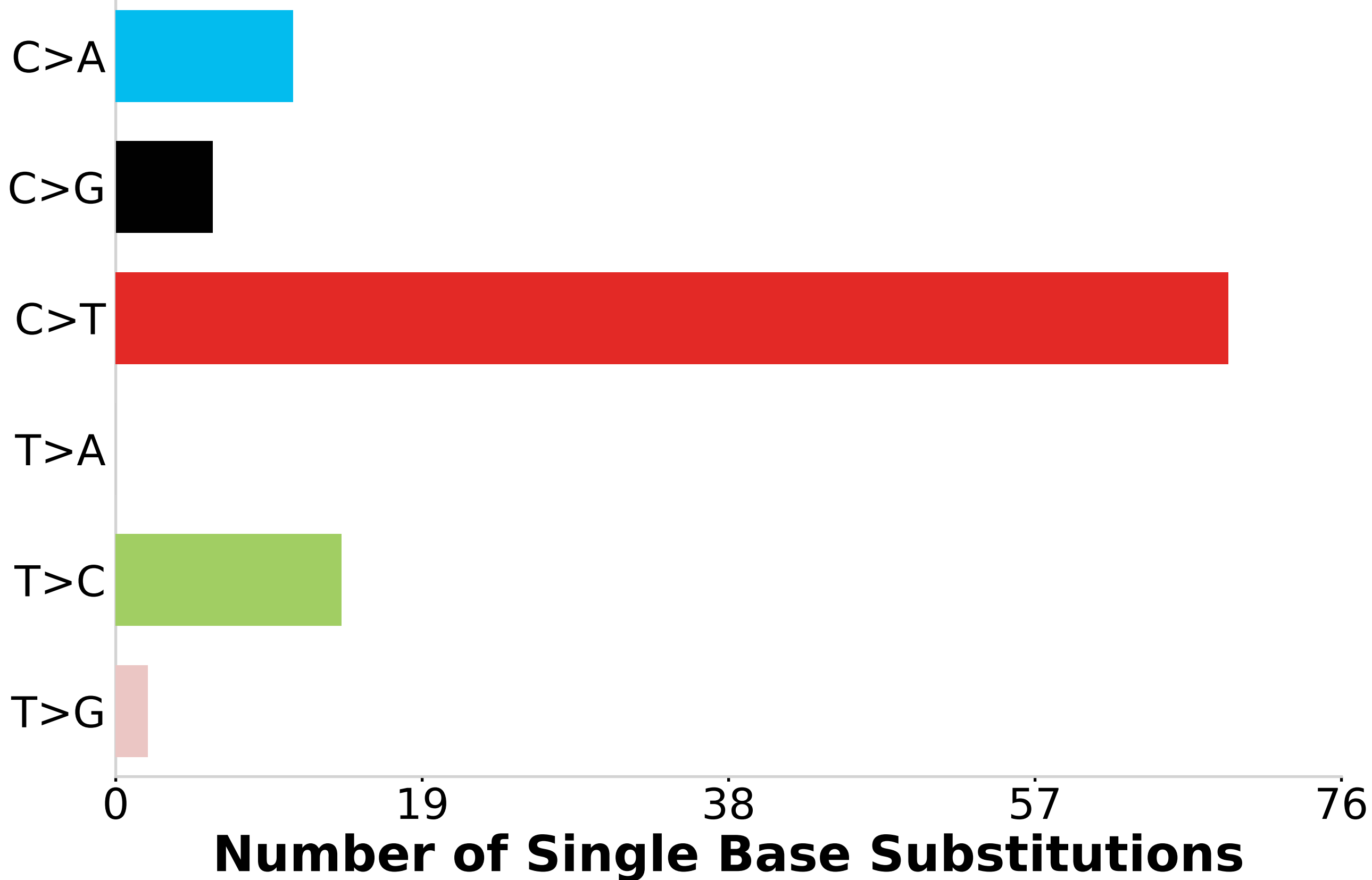
TCGA-BT-A2LA-01A-11D-A18F-08: 166 subs



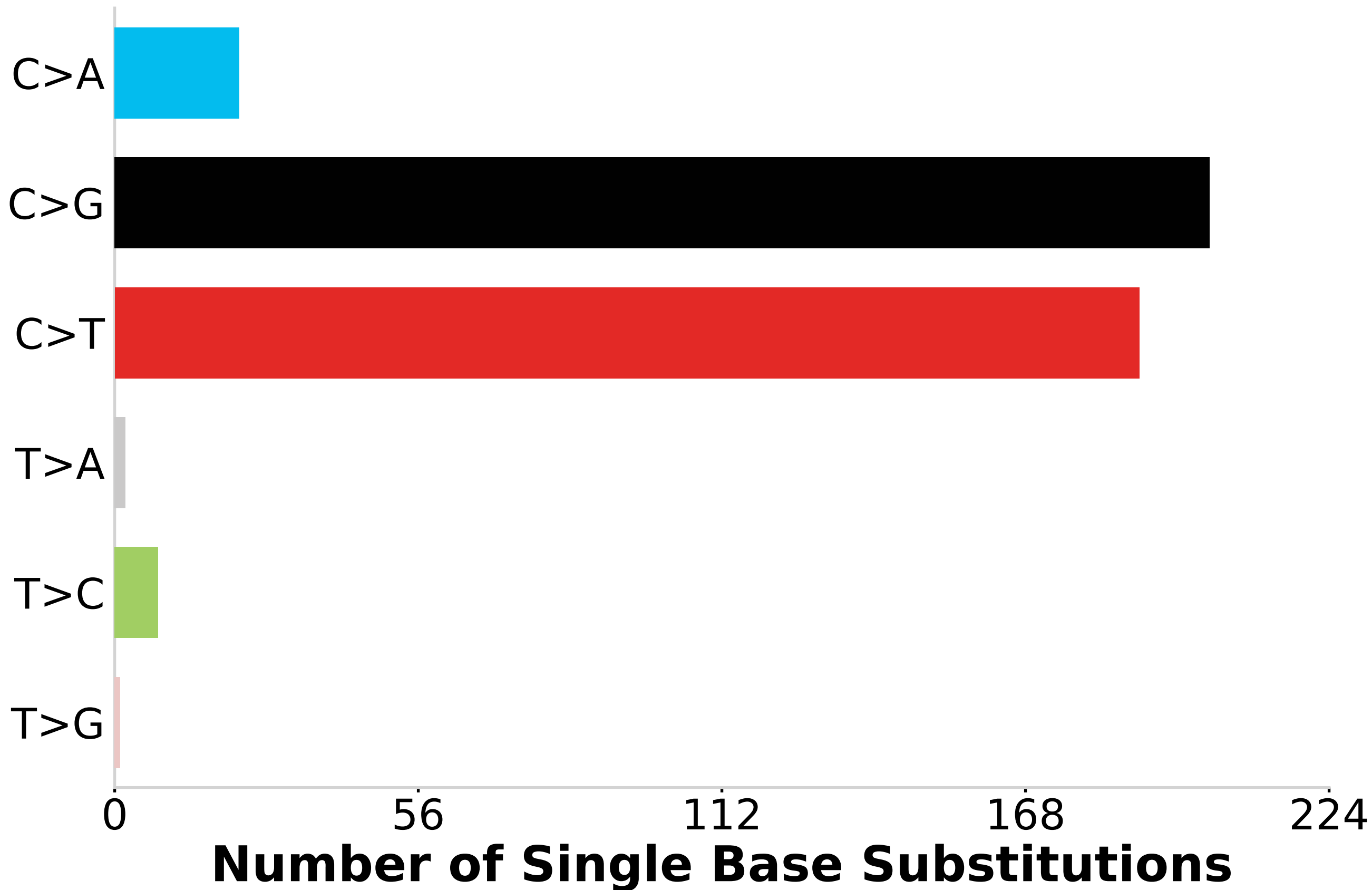
TCGA-BT-A2LB-01A-11D-A18F-08: 571 subs



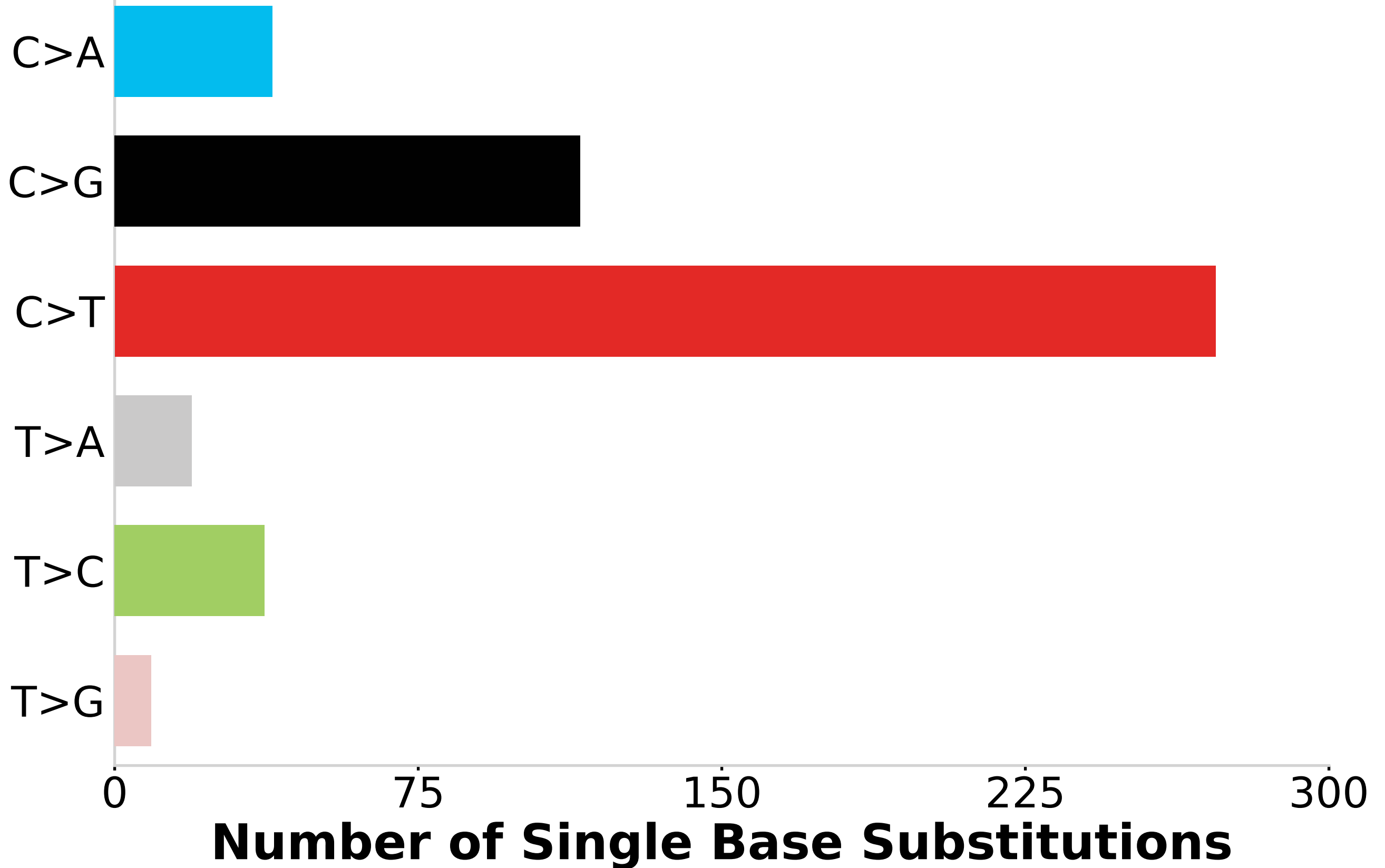
TCGA-BT-A2LD-01A-12D-A20D-08: 102 sub



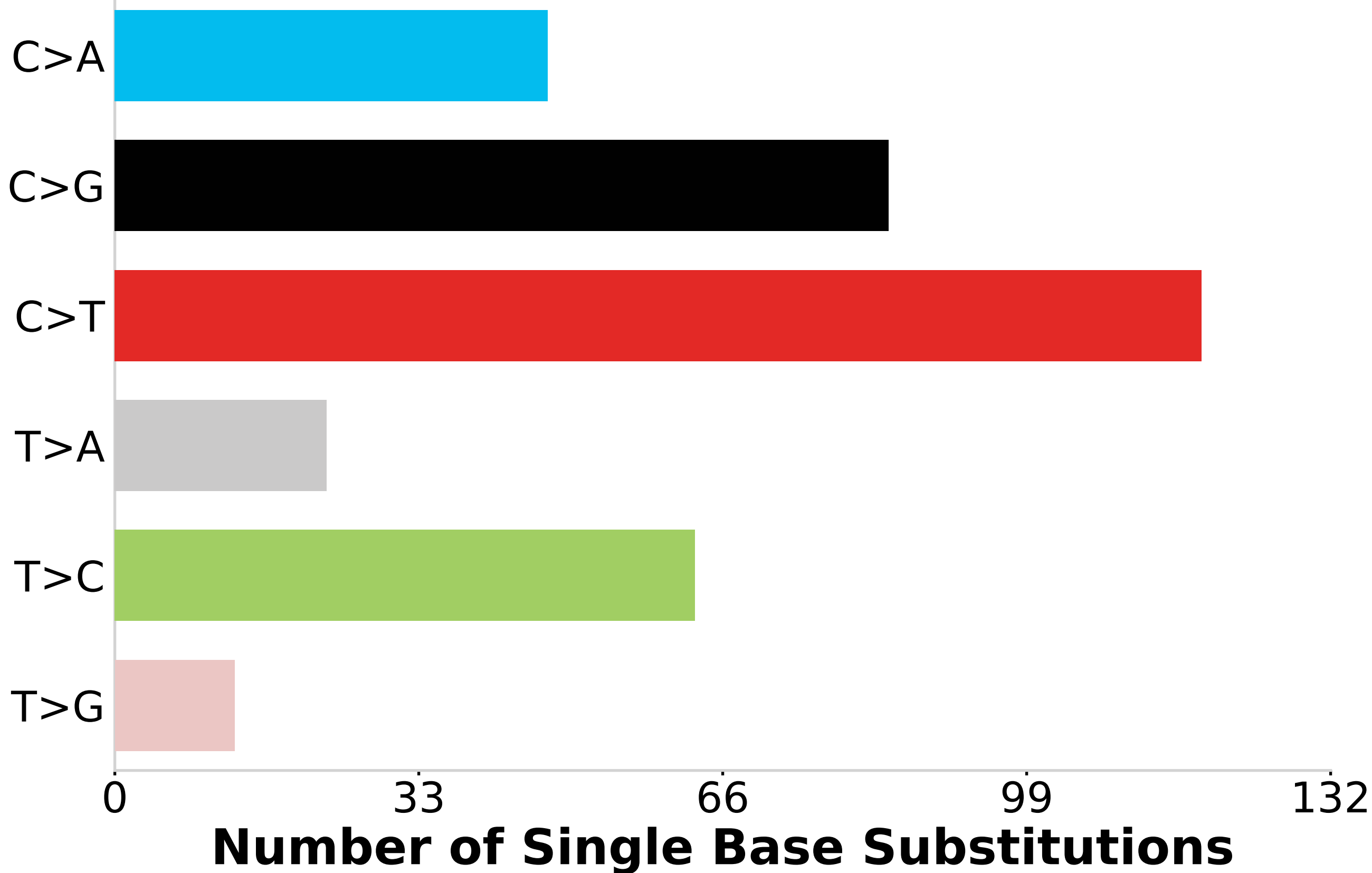
TCGA-BT-A3PH-01A-11D-A21Z-08: 425 sub



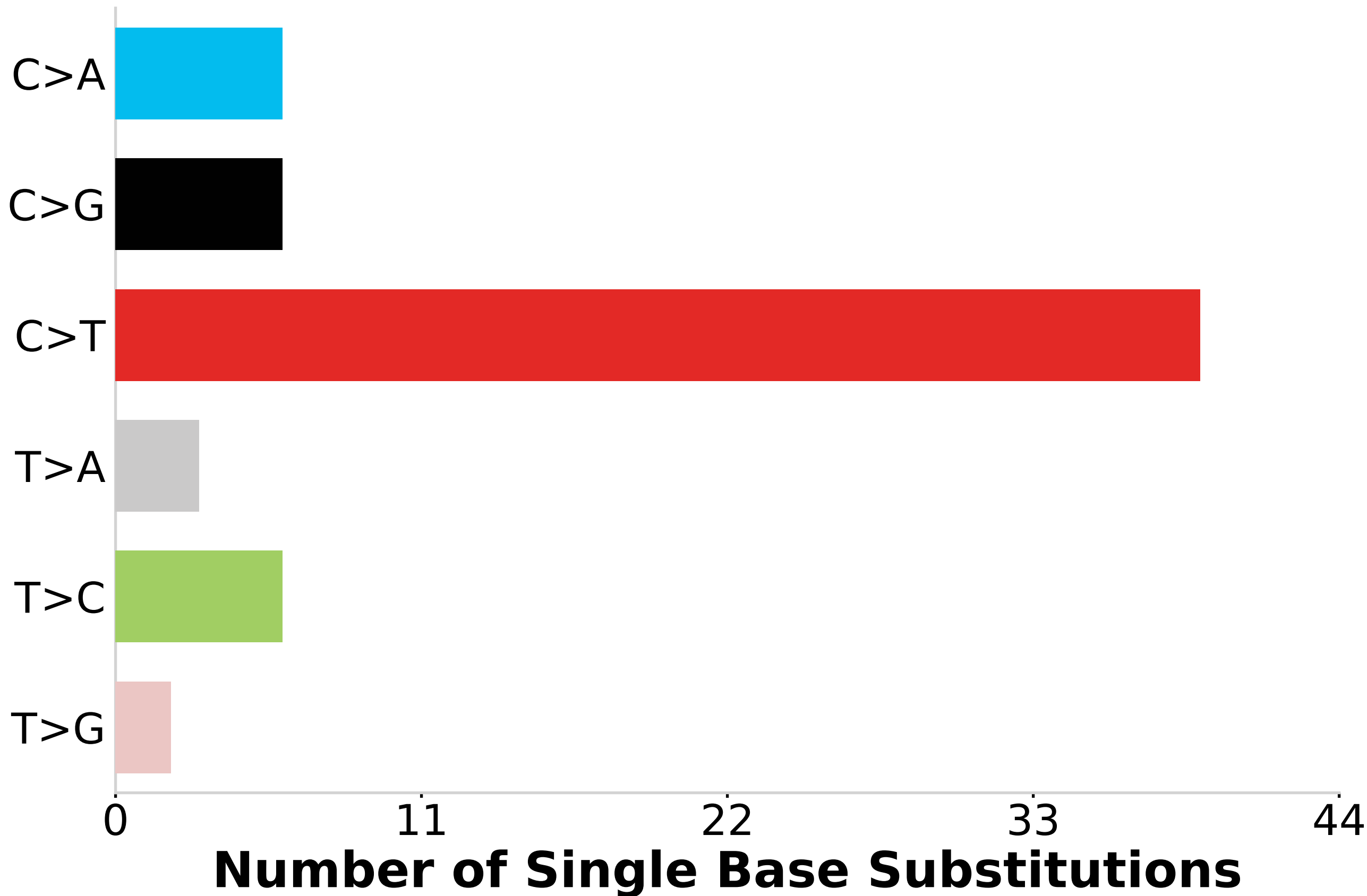
TCGA-BT-A3PJ-01A-21D-A21Z-08: 491 subs



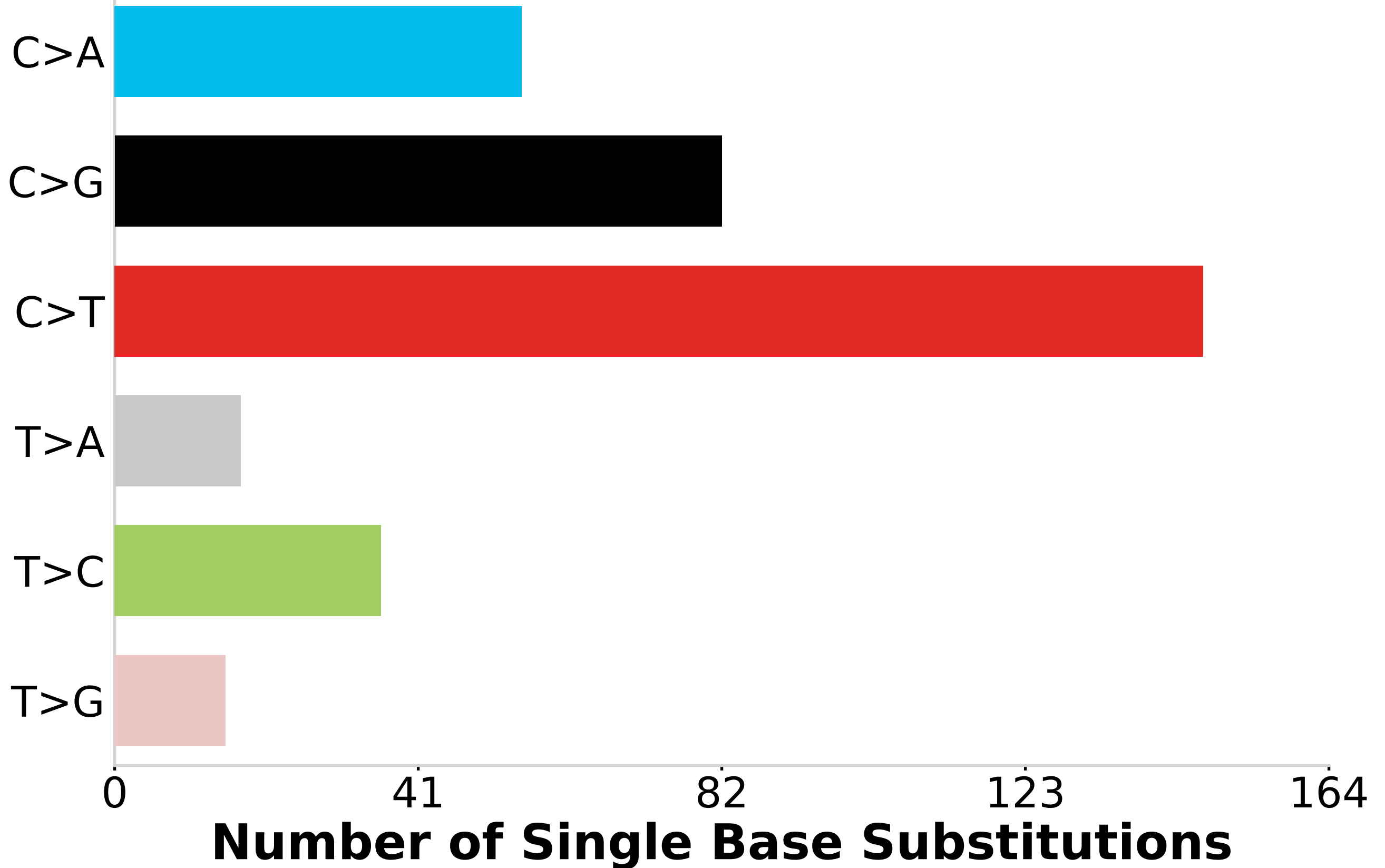
TCGA-BT-A3PK-01A-21D-A21Z-08: 348 sub



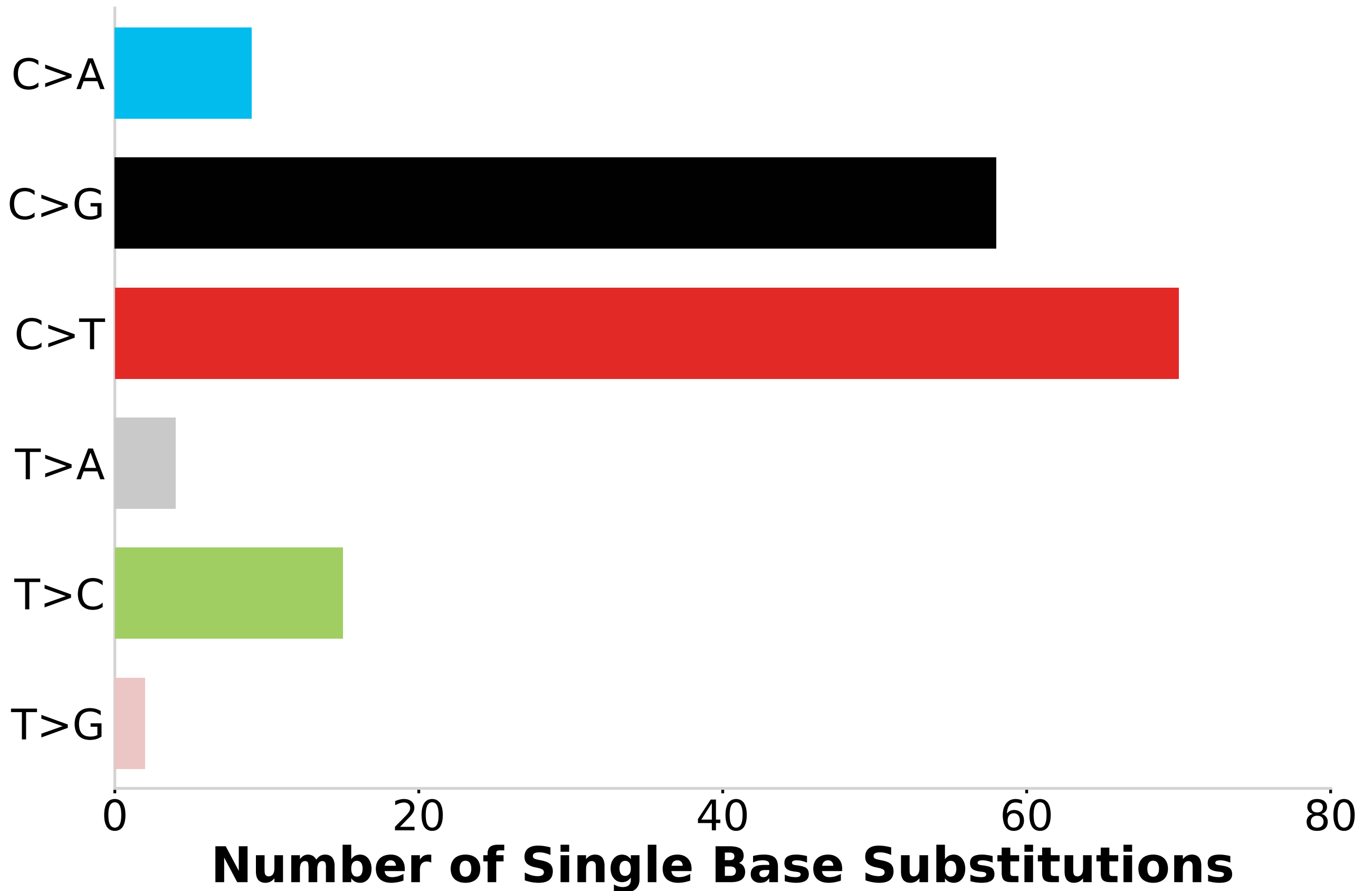
TCGA-BT-A42B-01A-32D-A23M-08: 62 subs



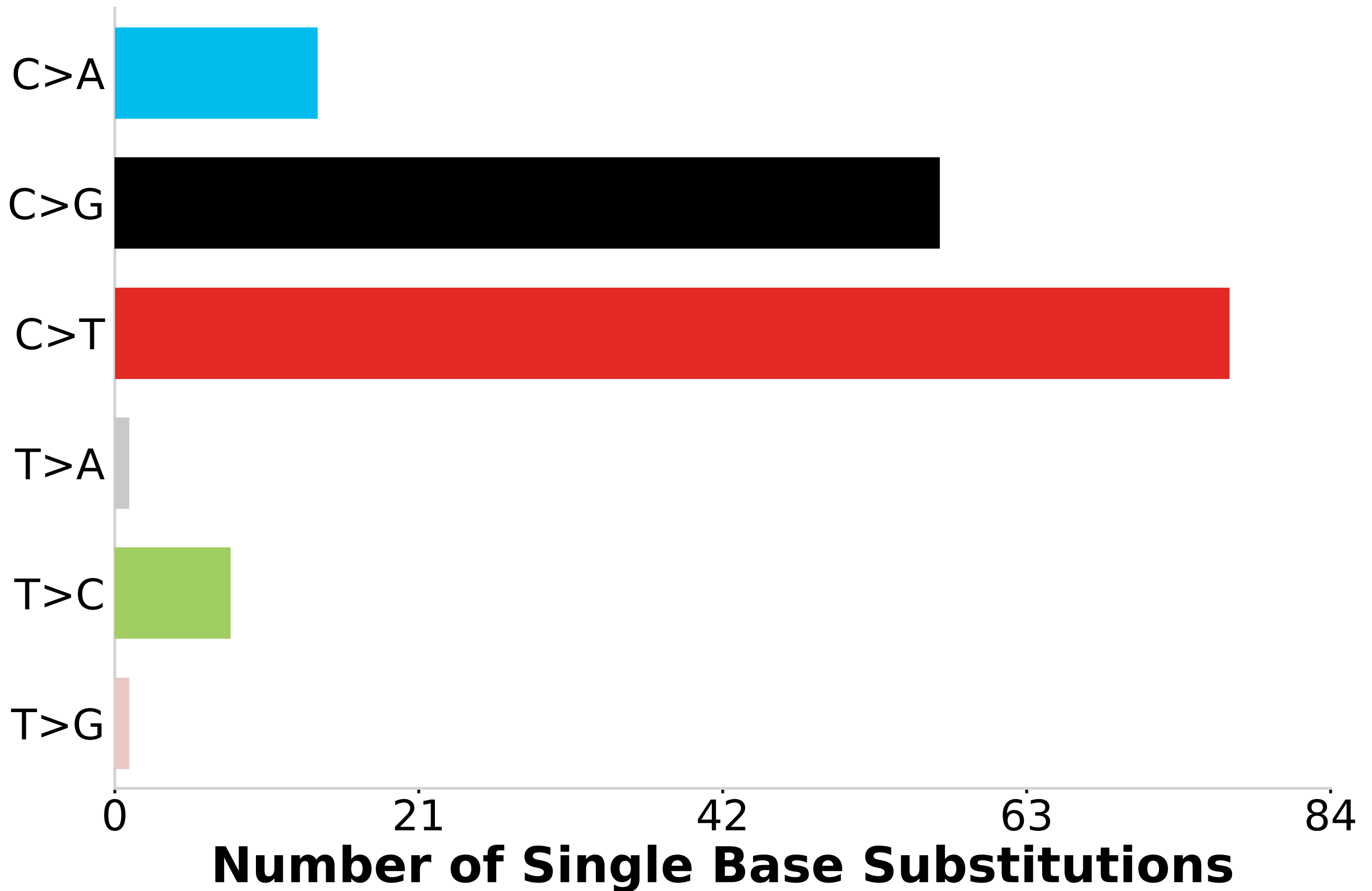
TCGA-BT-A42C-01A-11D-A23M-08: 352 sub



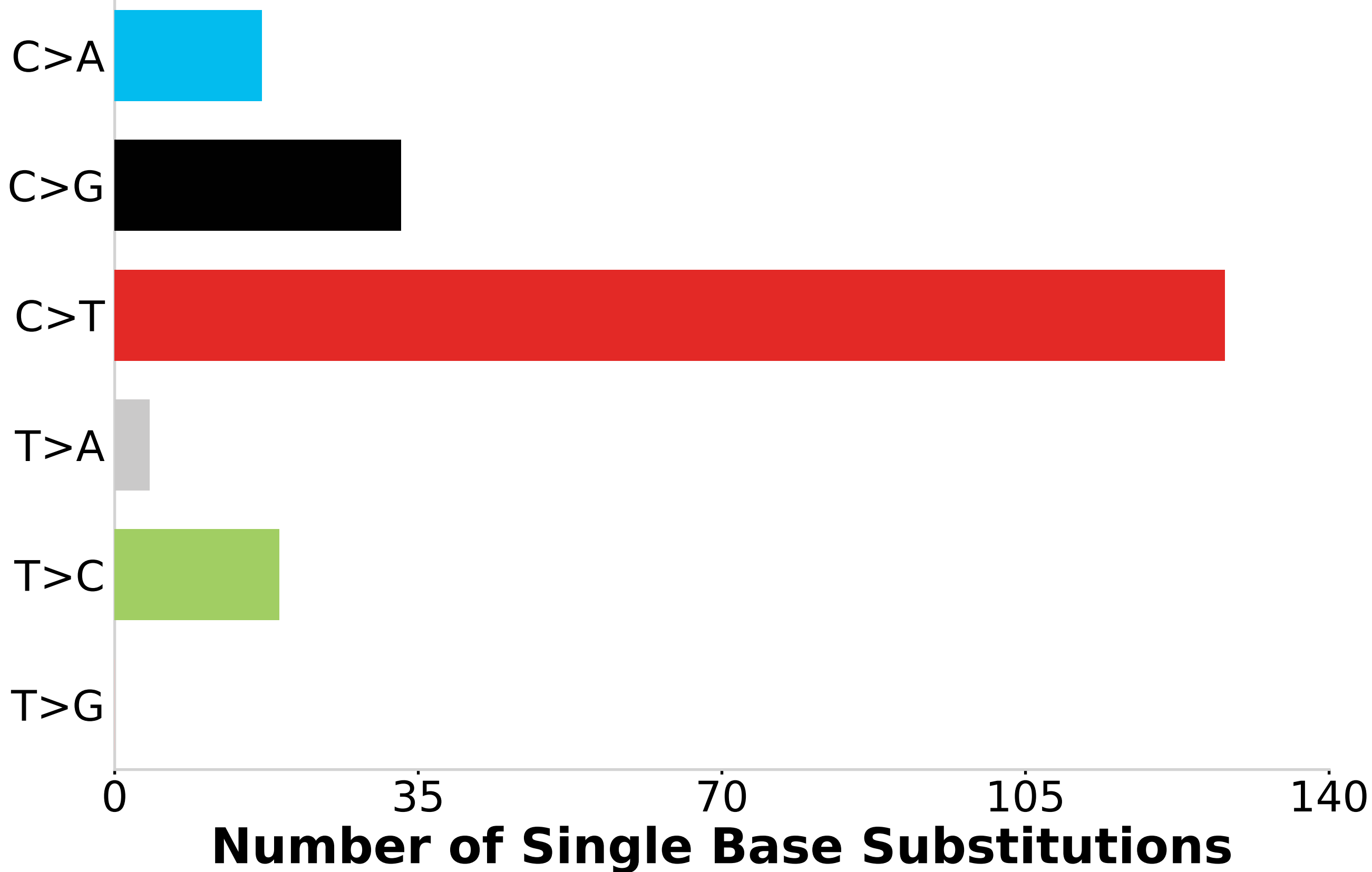
TCGA-BT-A42E-01A-11D-A23U-08: 158 sub



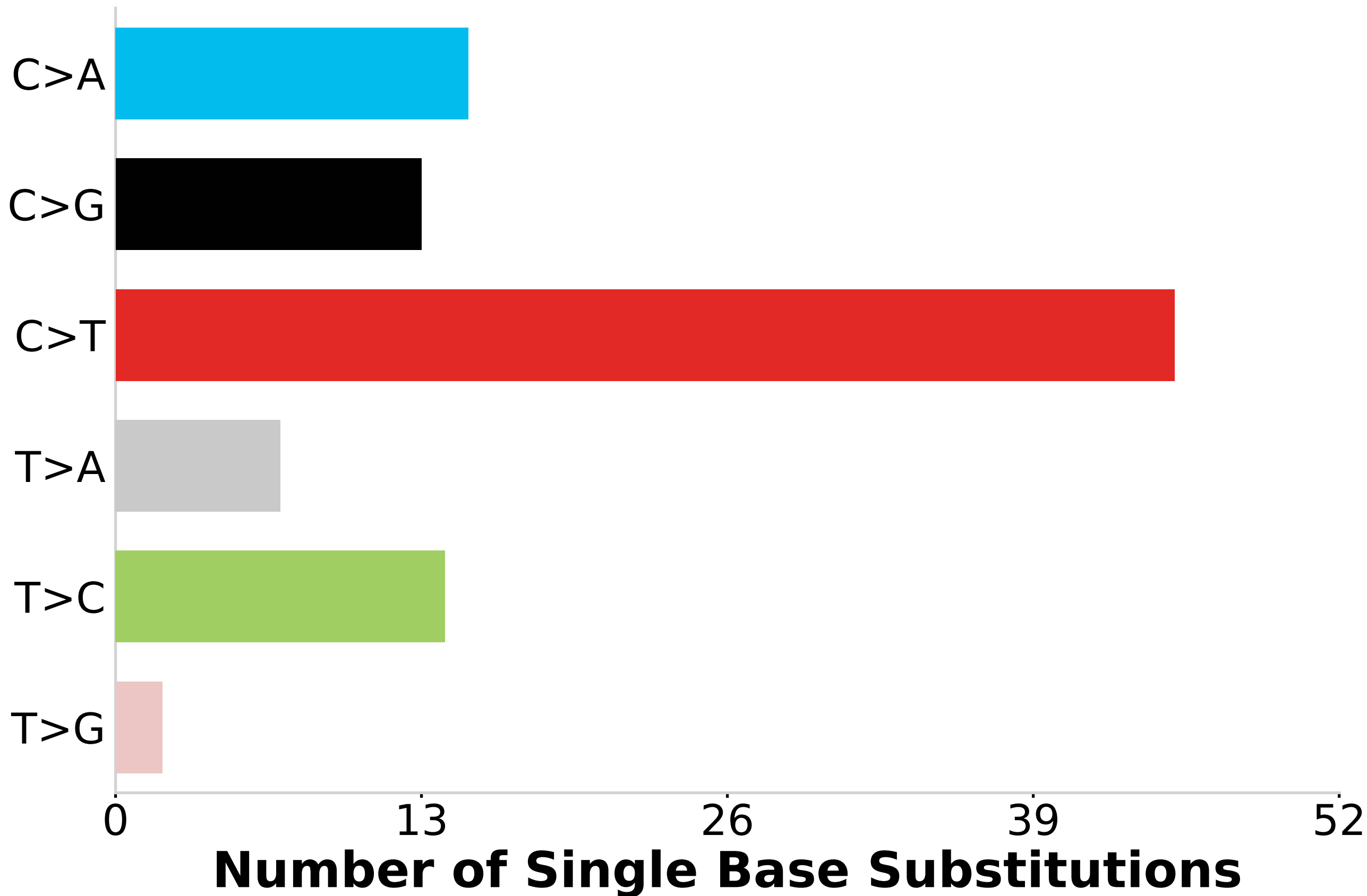
TCGA-BT-A42F-01A-11D-A23U-08: 158 sub



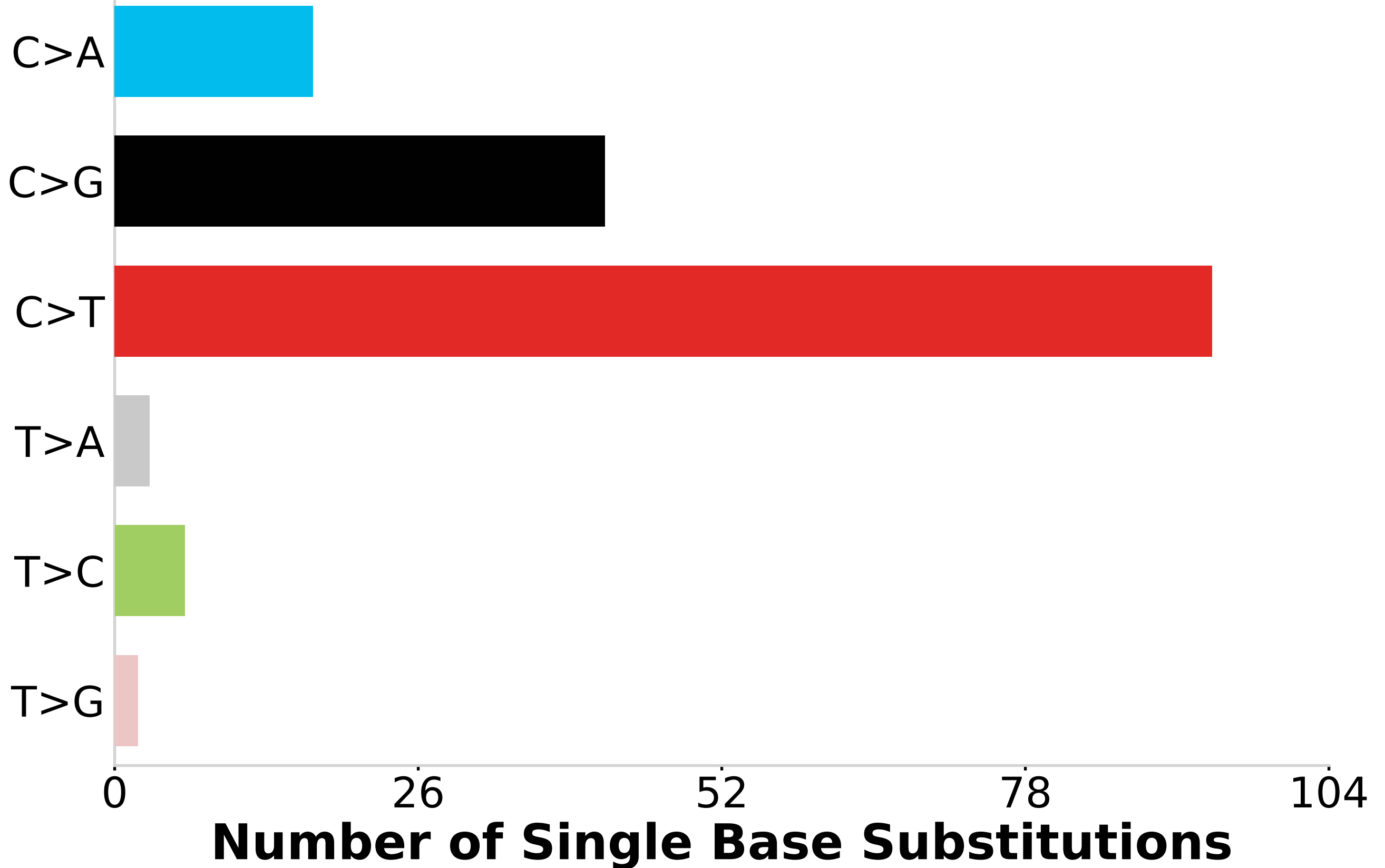
TCGA-C4-A0EZ-01A-21D-A10S-08: 201 sub



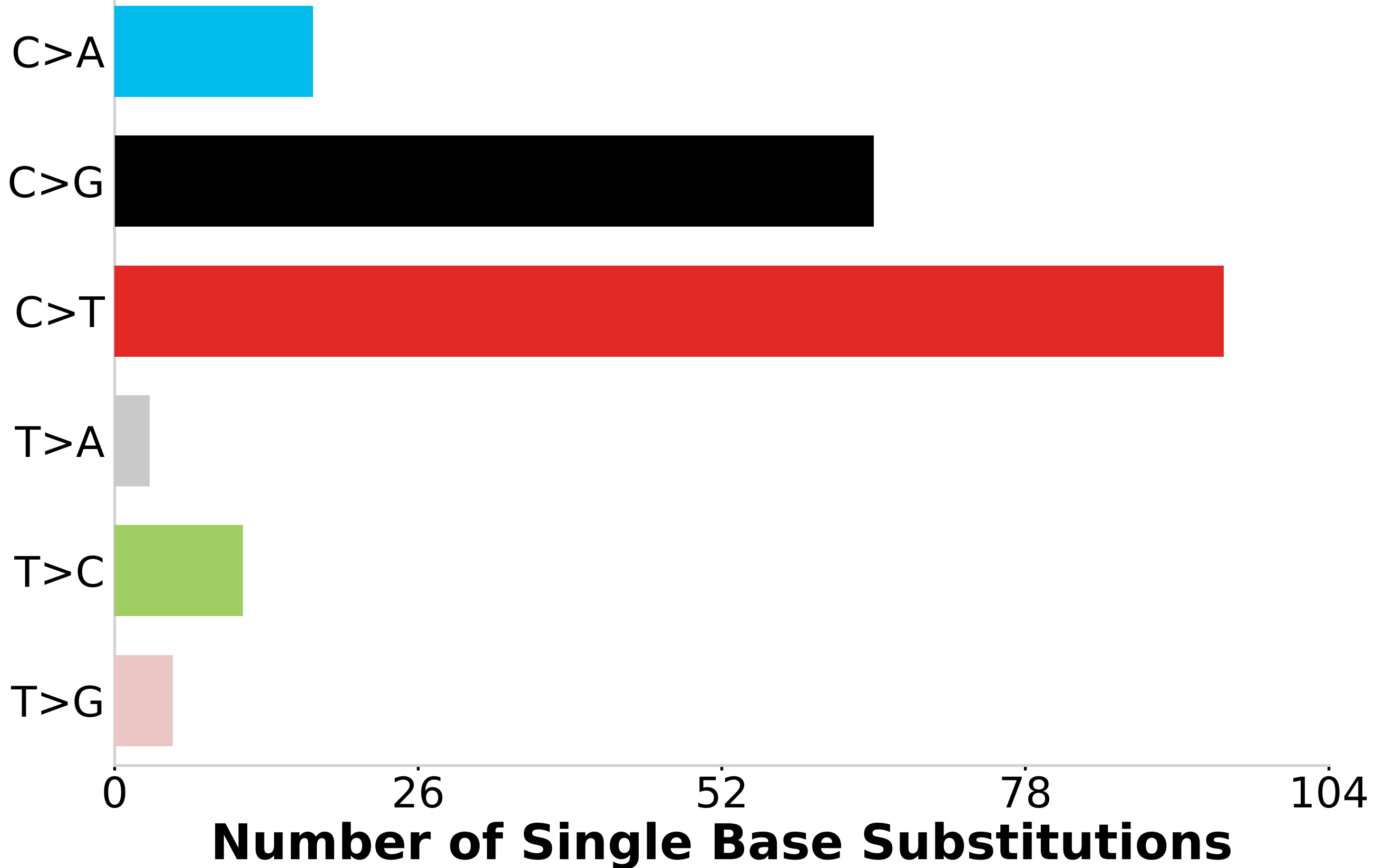
TCGA-C4-A0F0-01A-12D-A10S-08: 96 subs



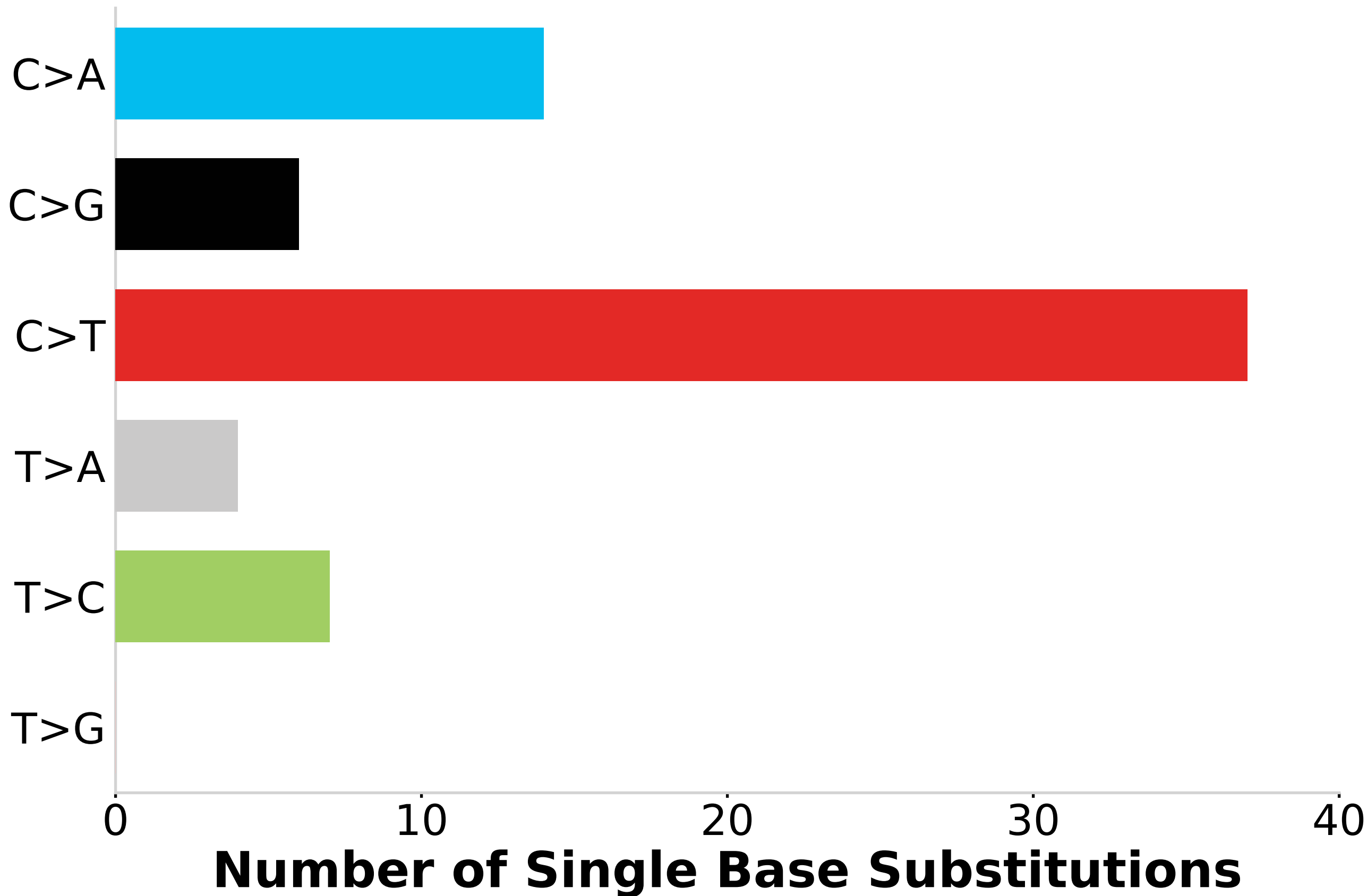
TCGA-C4-A0F1-01A-11D-A10S-08: 164 sub



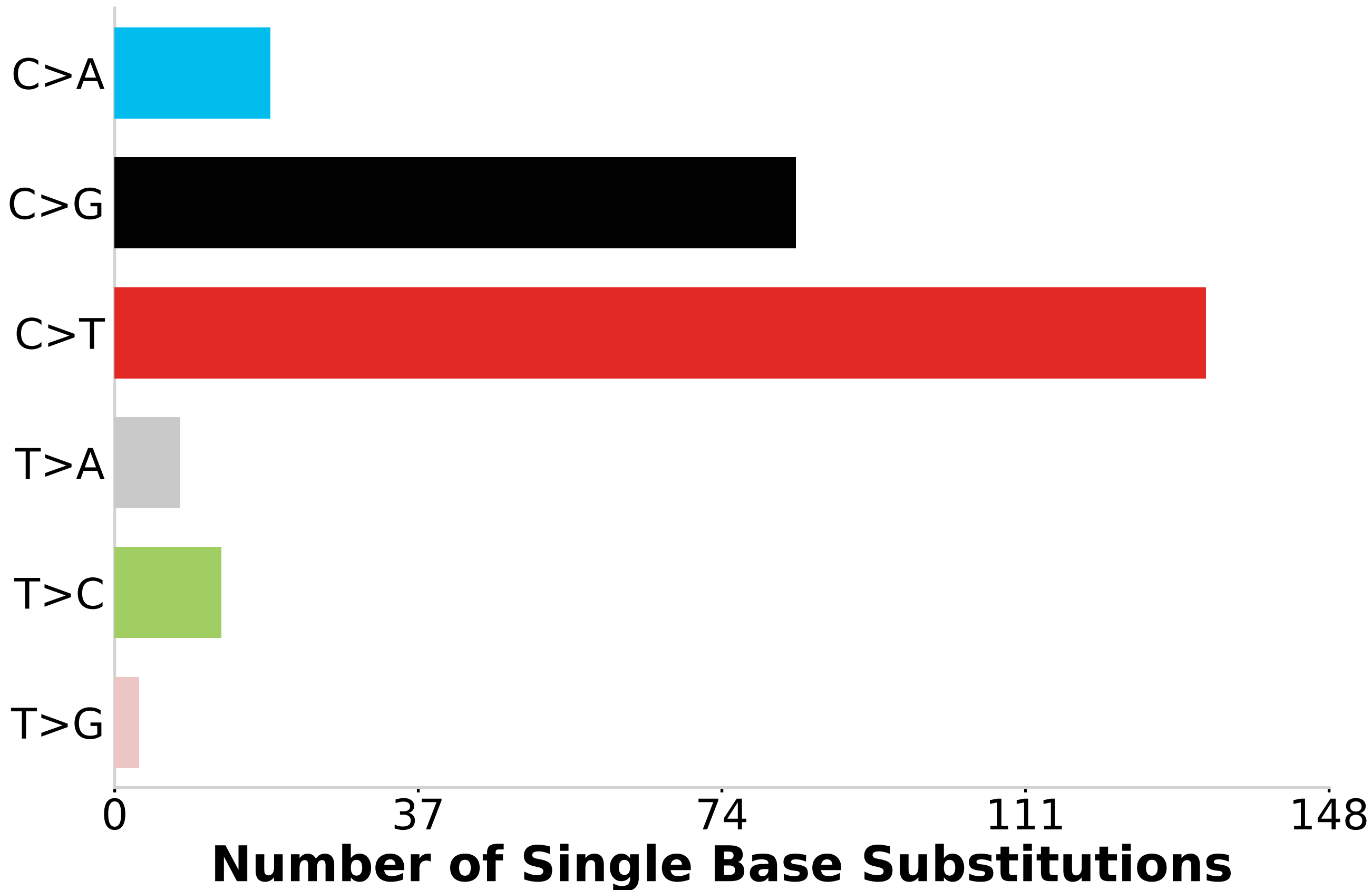
TCGA-C4-A0F6-01A-11D-A10S-08: 196 sub



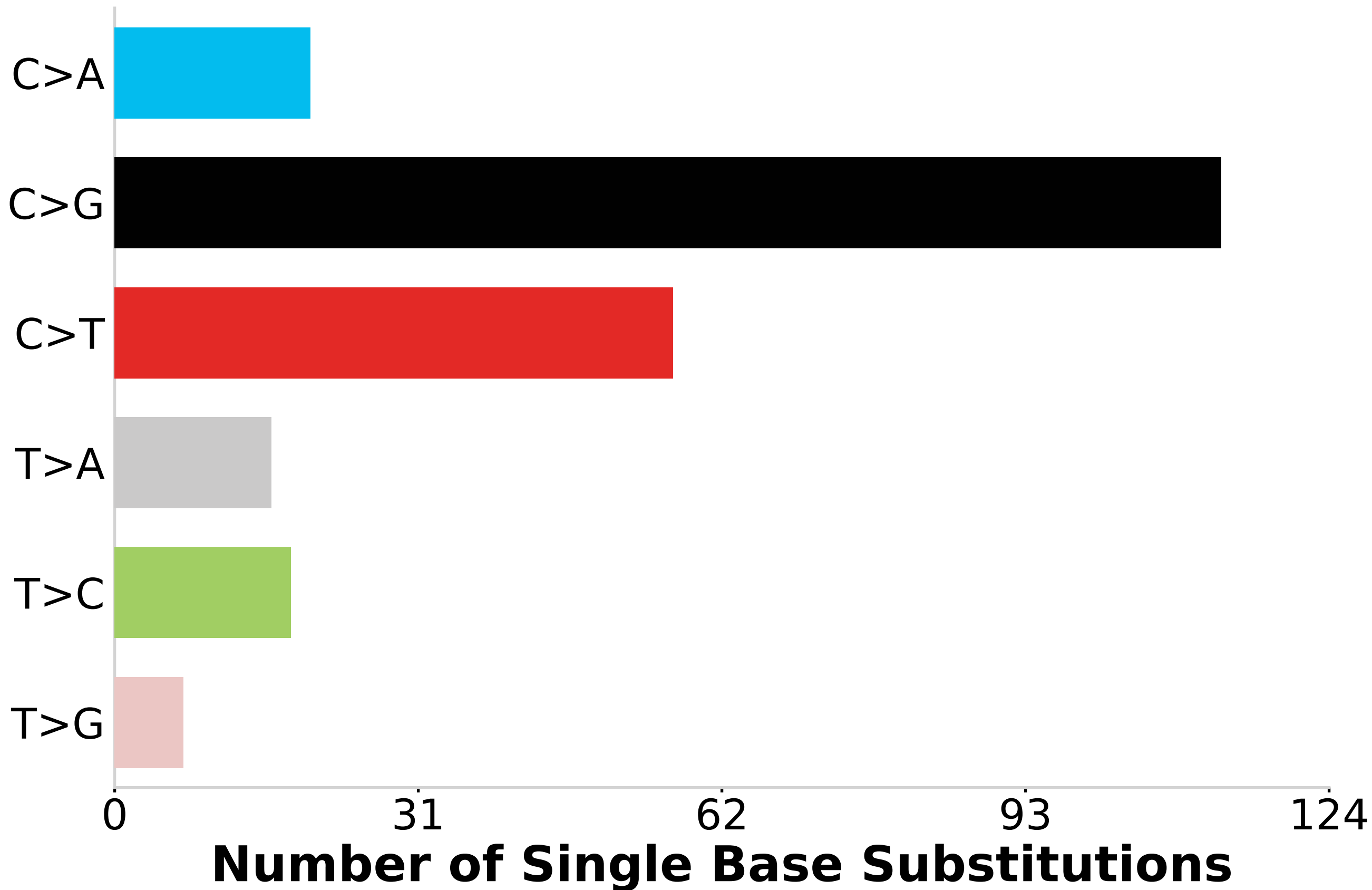
TCGA-C4-A0F7-01A-11D-A10S-08: 68 subs



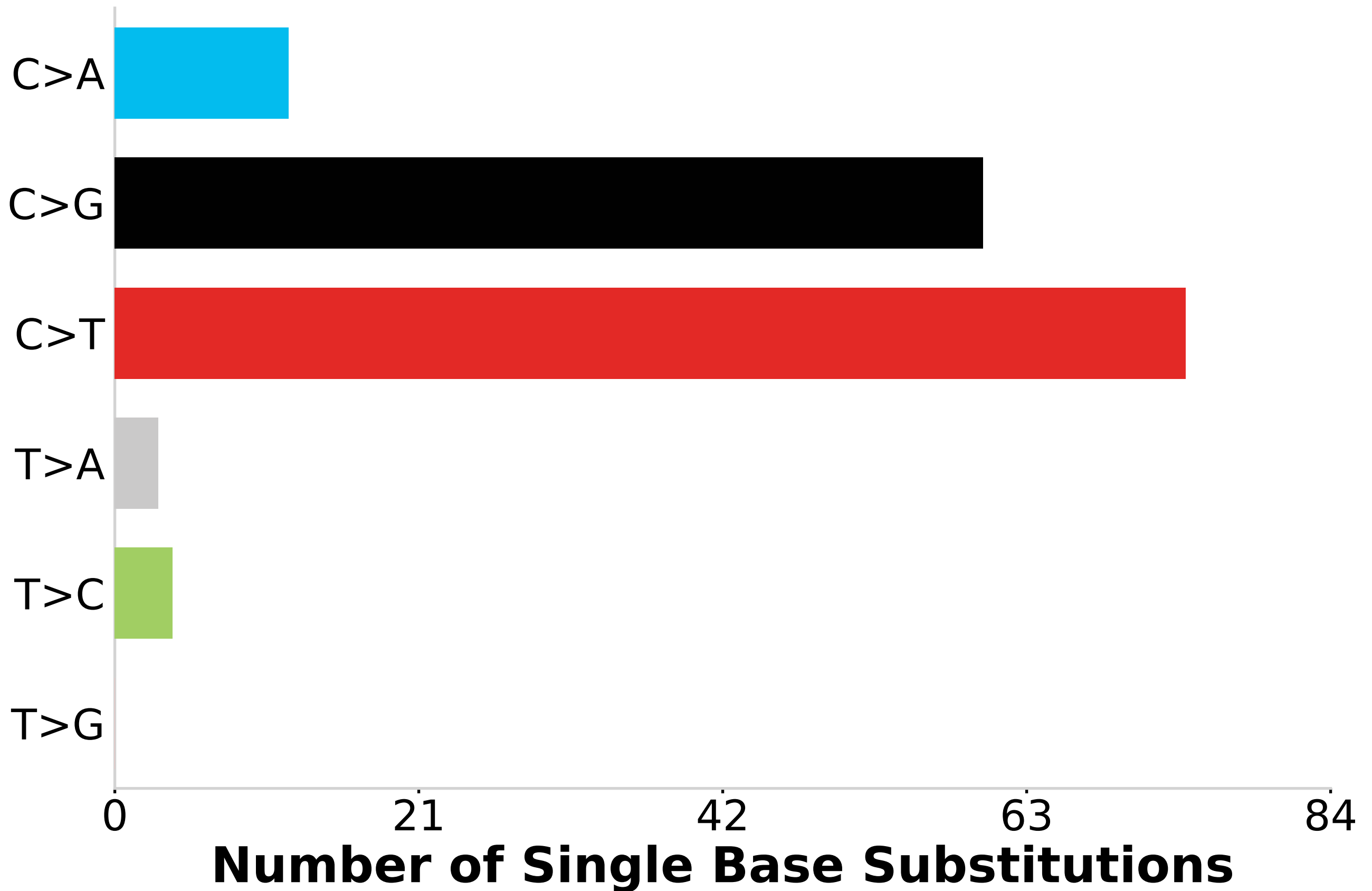
TCGA-CF-A1HR-01A-11D-A13W-08: 259 sub



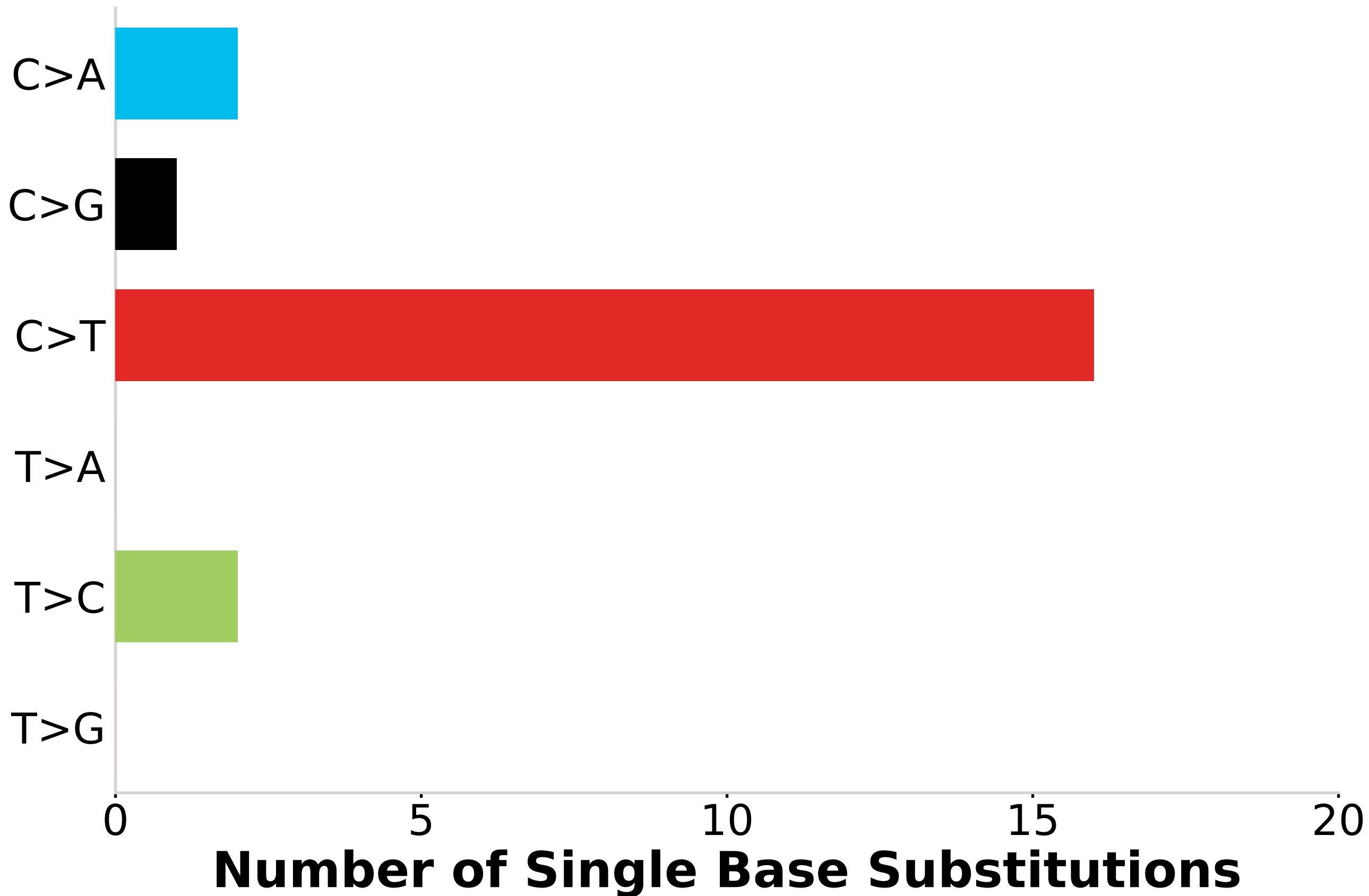
TCGA-CF-A1HS-01A-11D-A13W-08: 231 substitutions



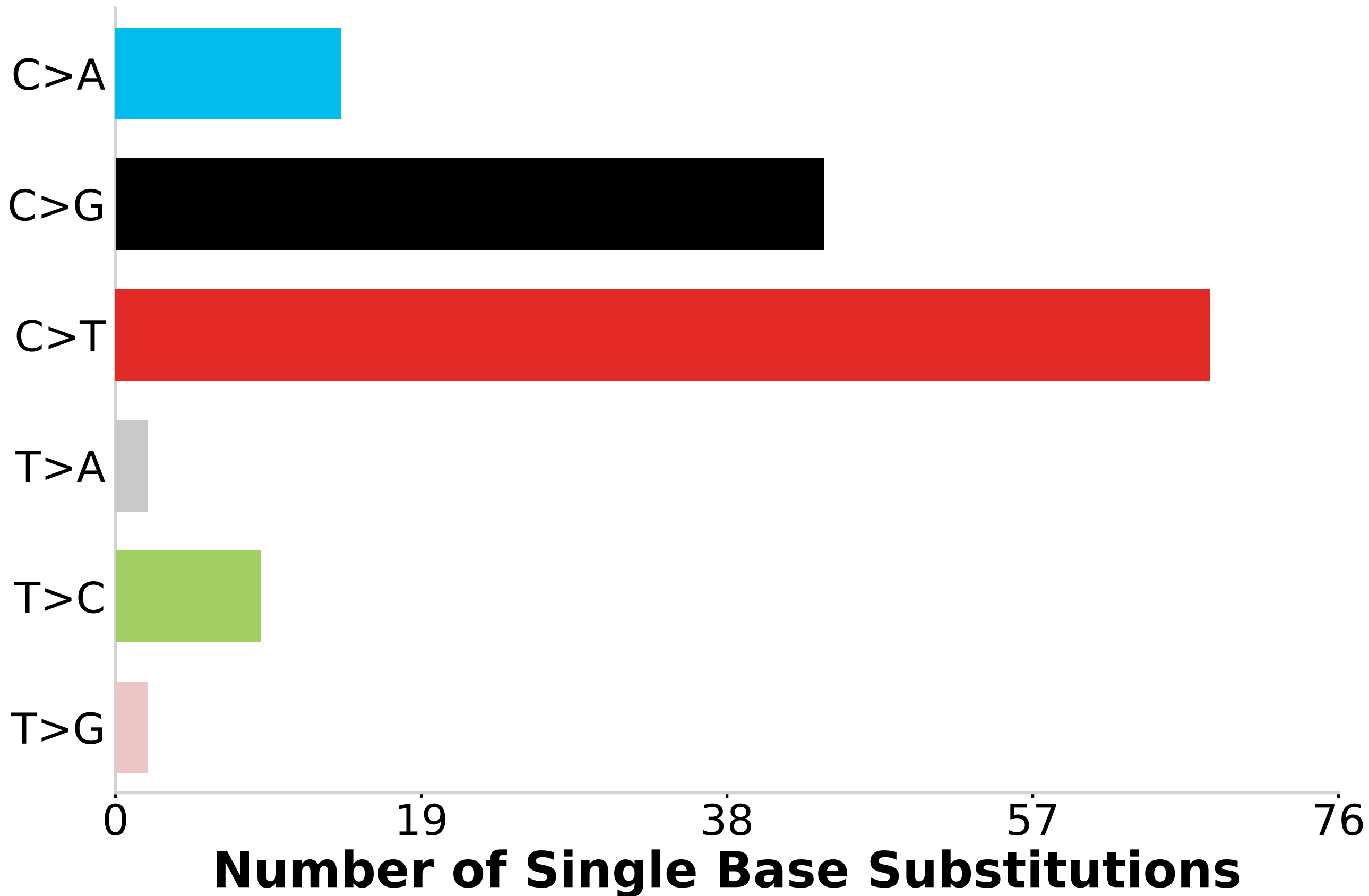
TCGA-CF-A27C-01A-11D-A16O-08: 153 sub



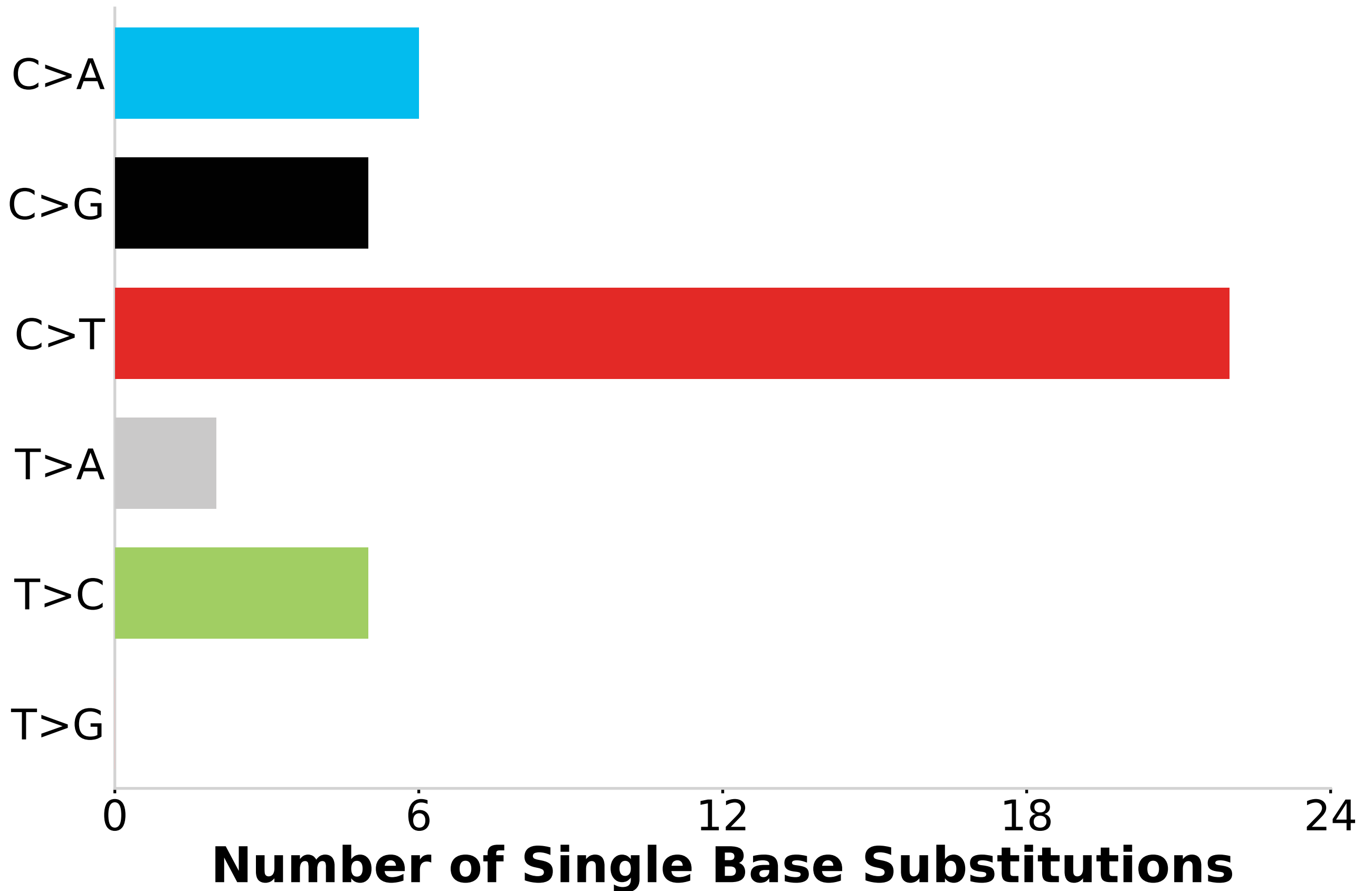
TCGA-CF-A3MF-01A-12D-A21A-08: 21 subs



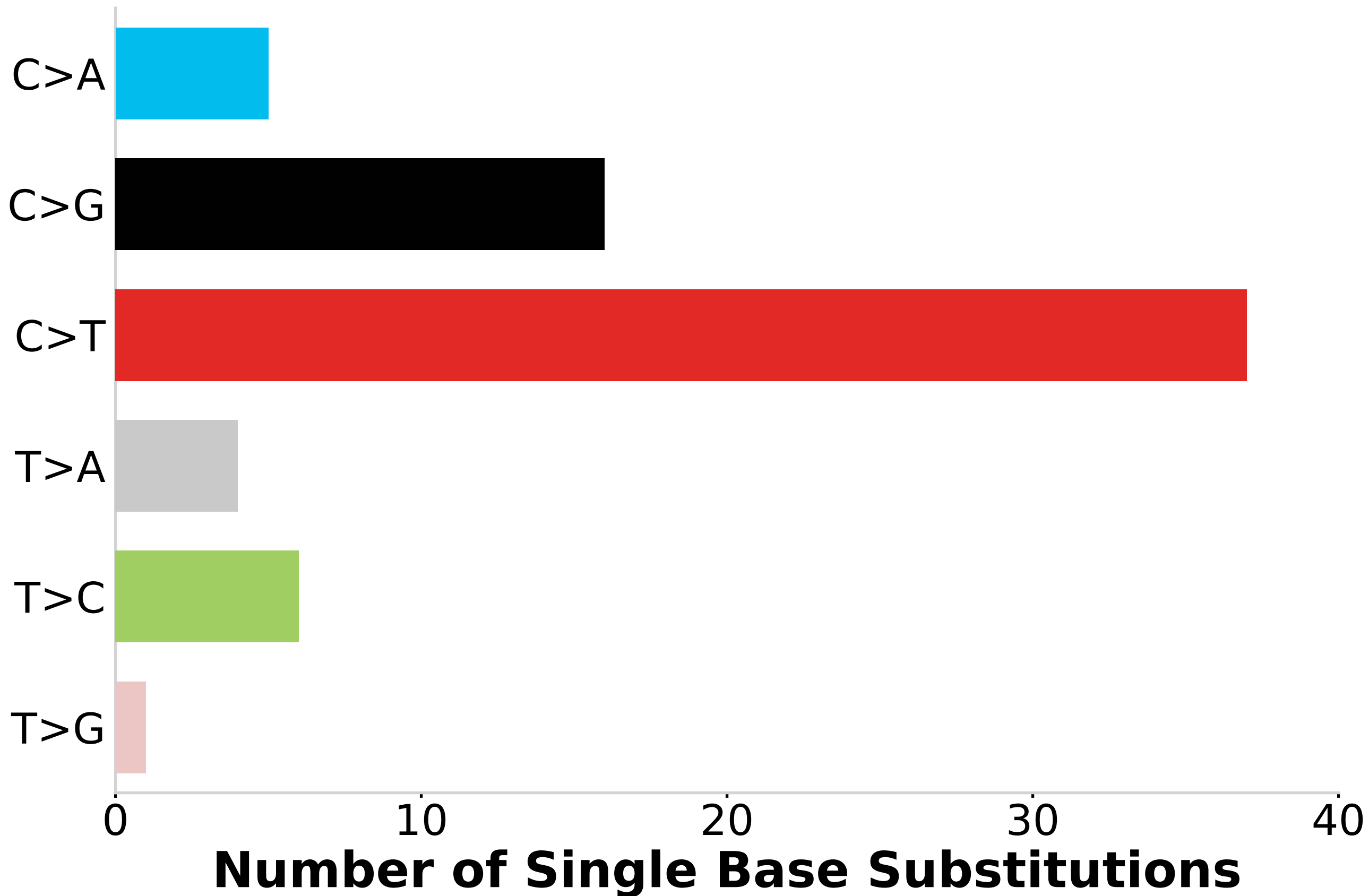
TCGA-CF-A3MG-01A-11D-A20D-08: 139 sub



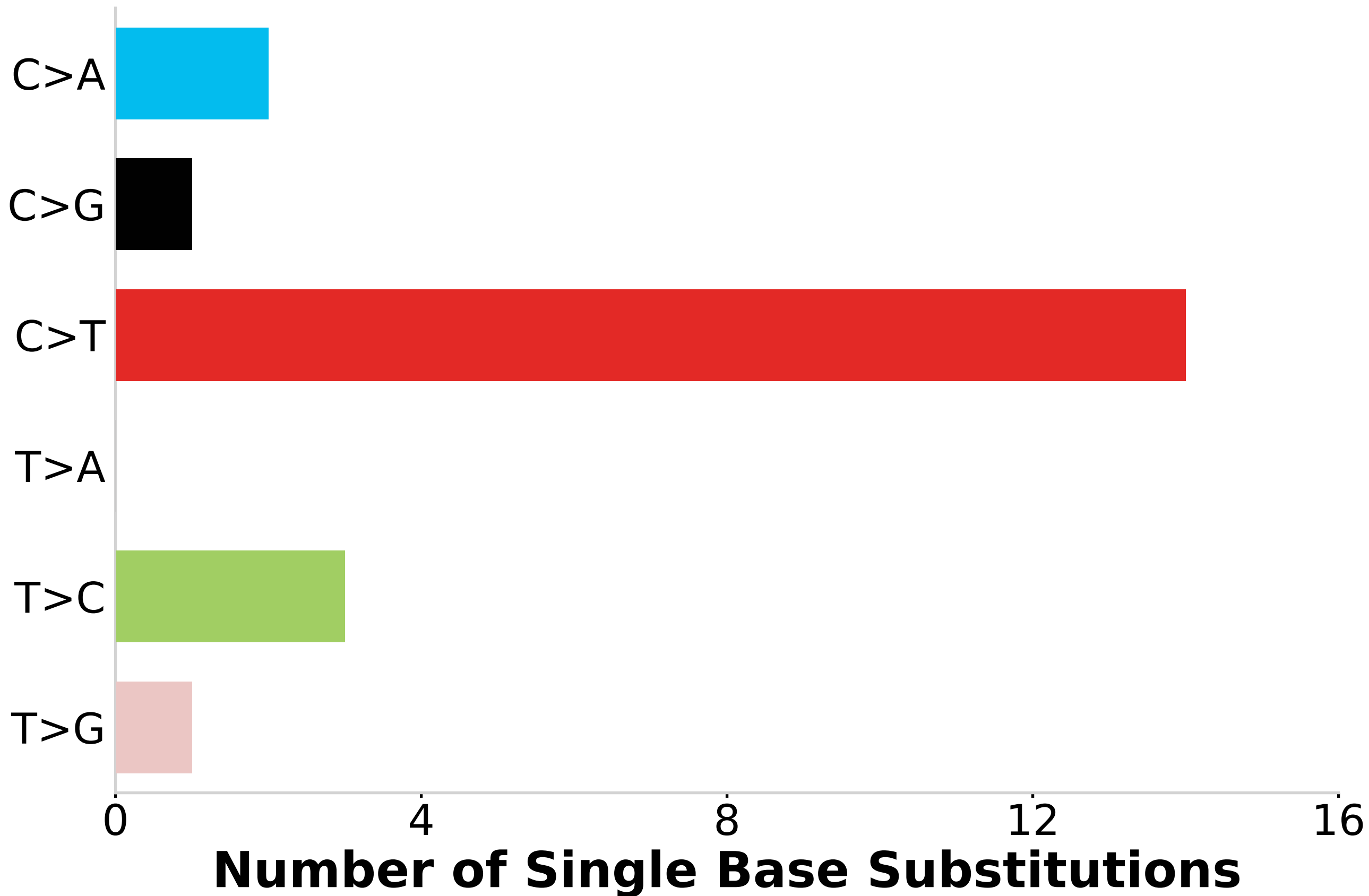
TCGA-CF-A3MH-01A-11D-A20D-08: 40 subs



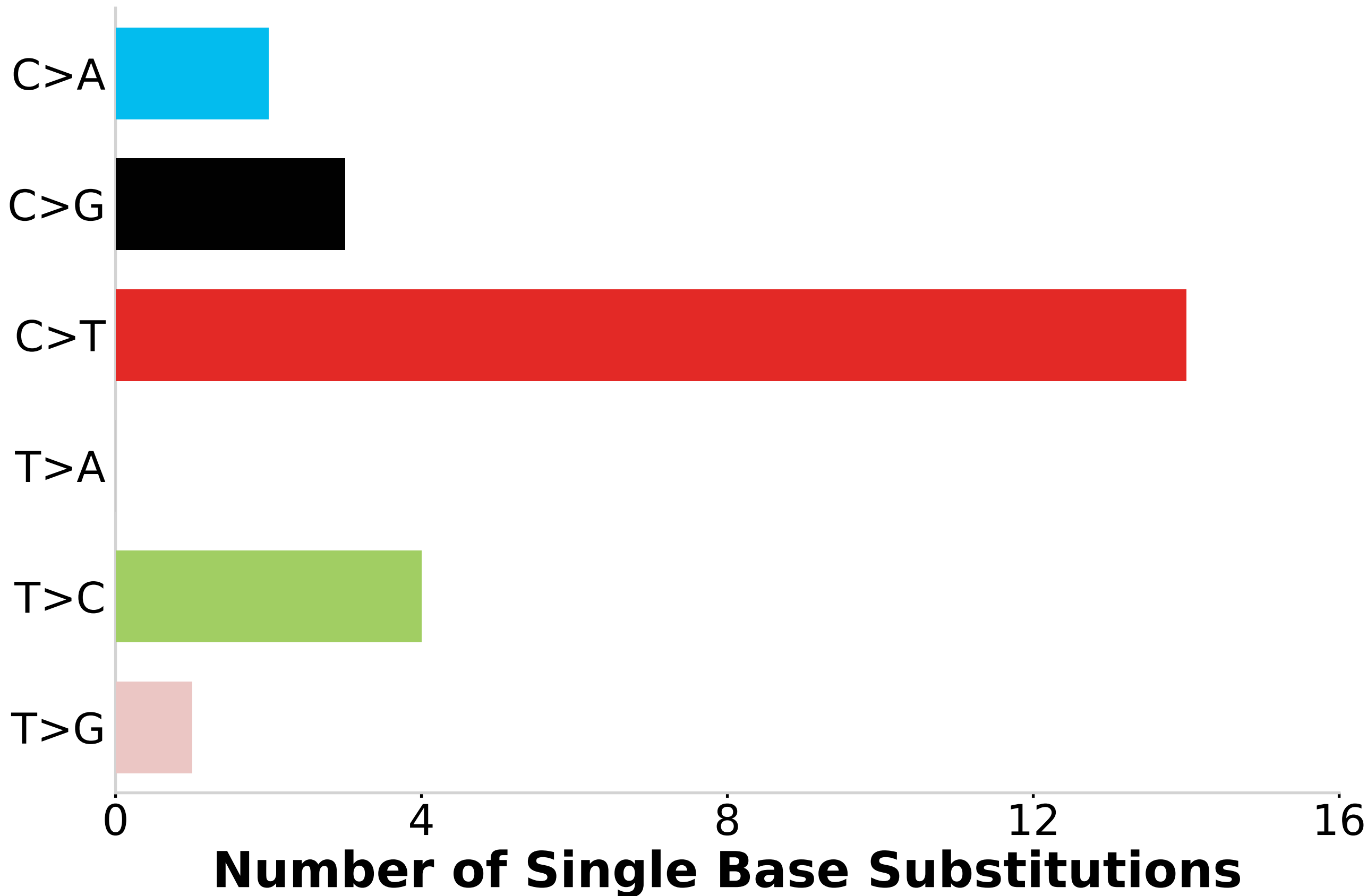
TCGA-CF-A3MI-01A-11D-A20D-08: 69 subs



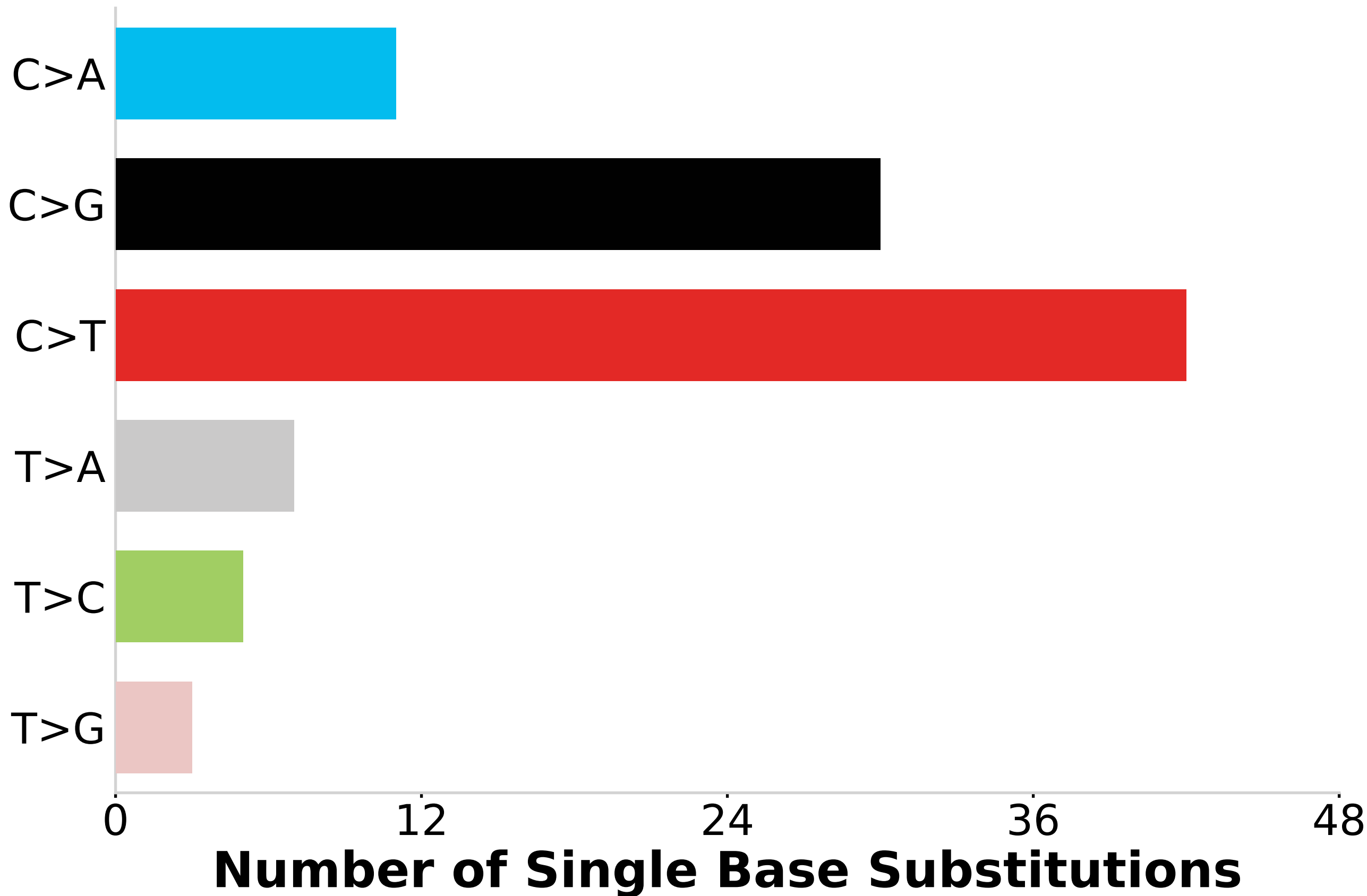
TCGA-CF-A47S-01A-11D-A23U-08: 21 subs



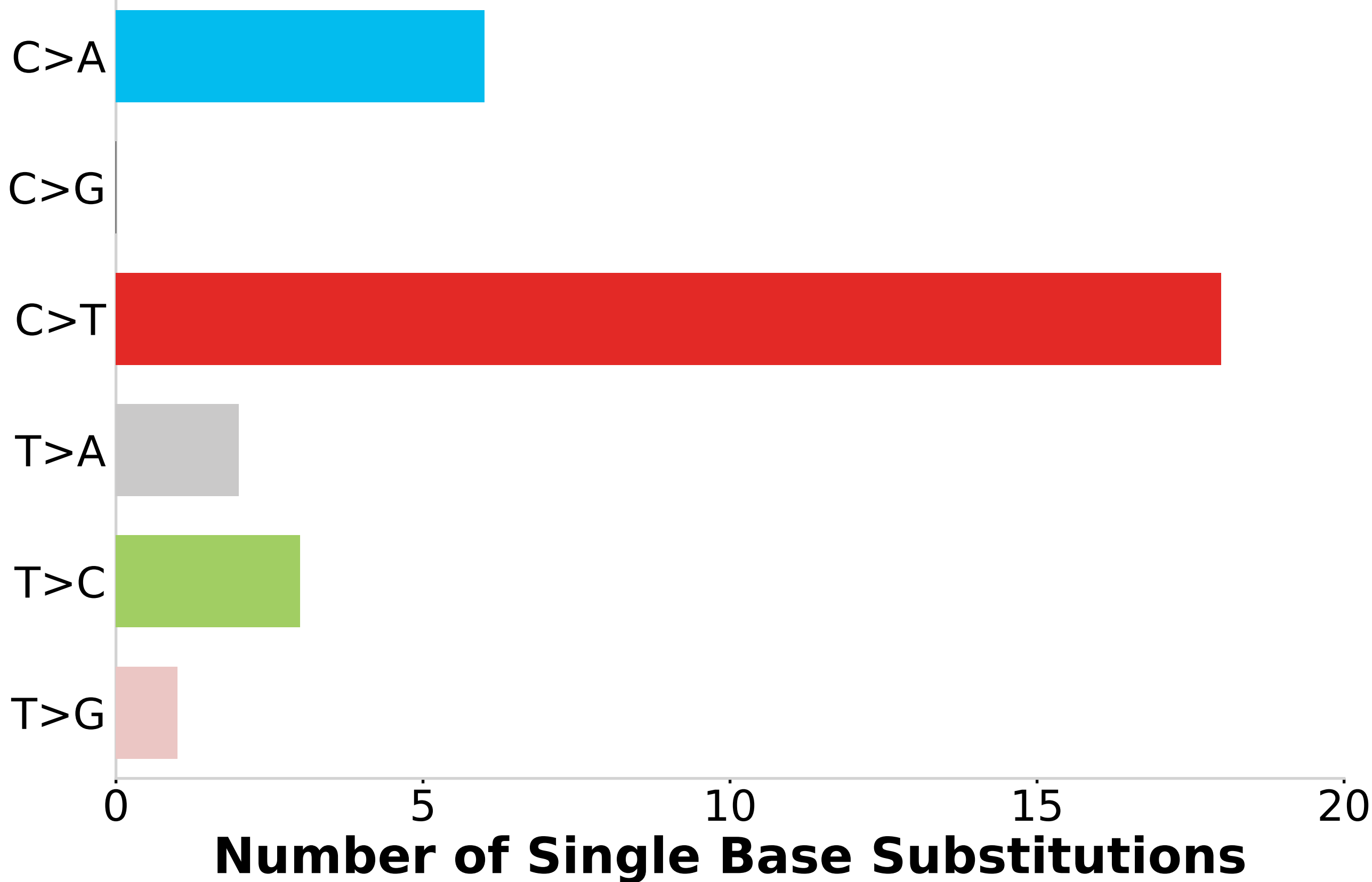
TCGA-CF-A47T-01A-11D-A23U-08: 24 subs



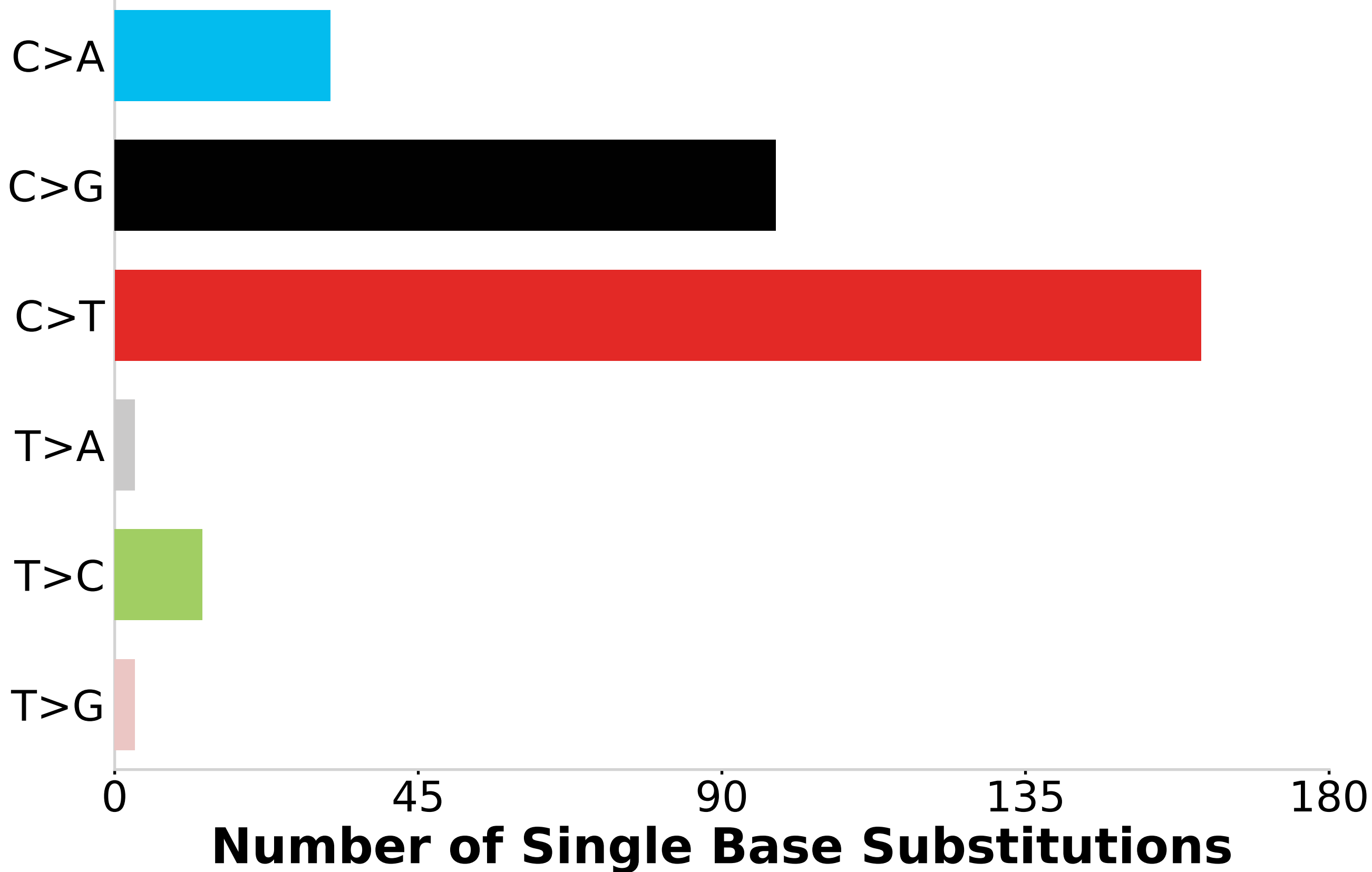
TCGA-CF-A47V-01A-11D-A23U-08: 98 subs



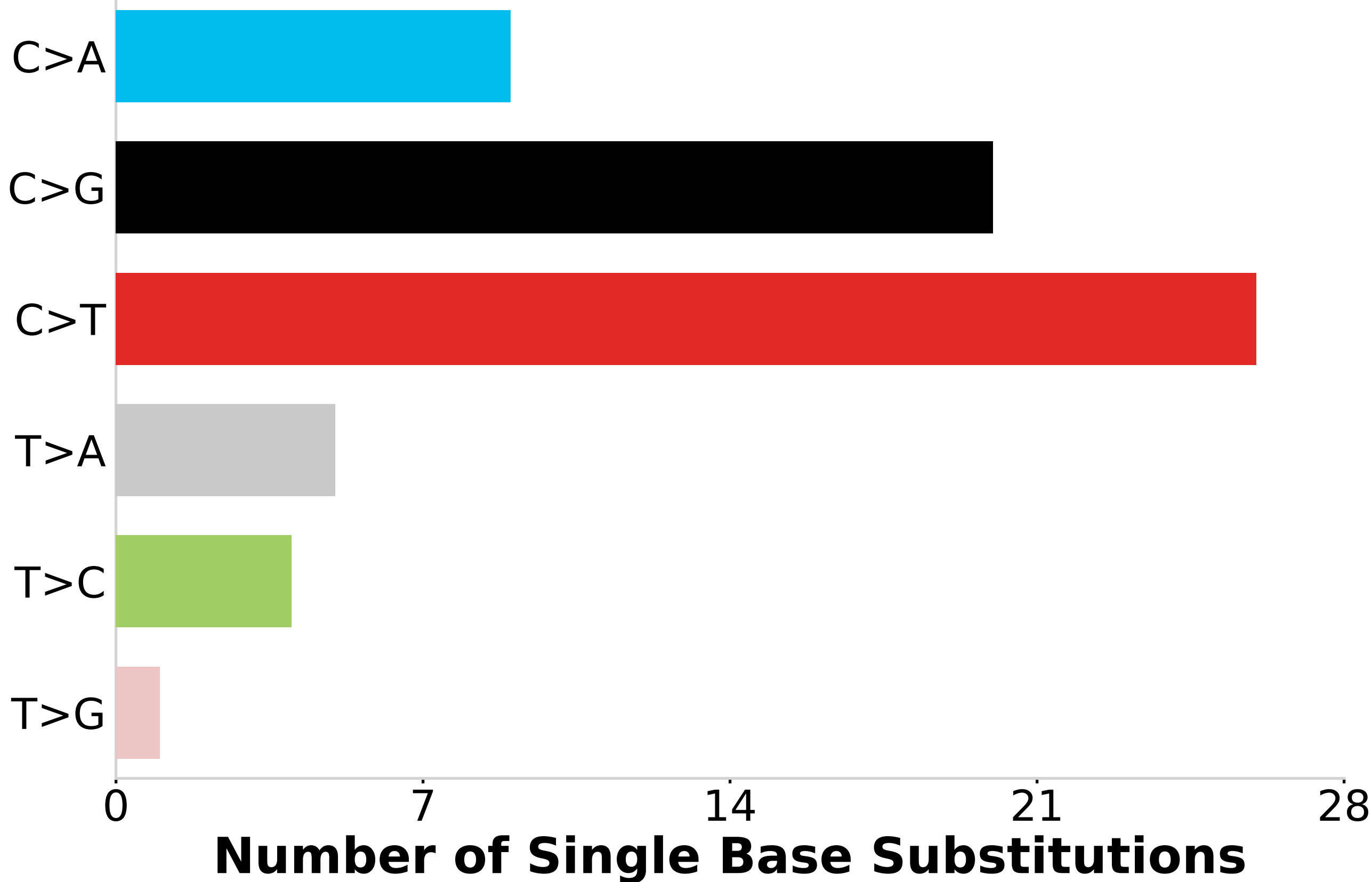
TCGA-CF-A47W-01A-11D-A23U-08: 30 subs



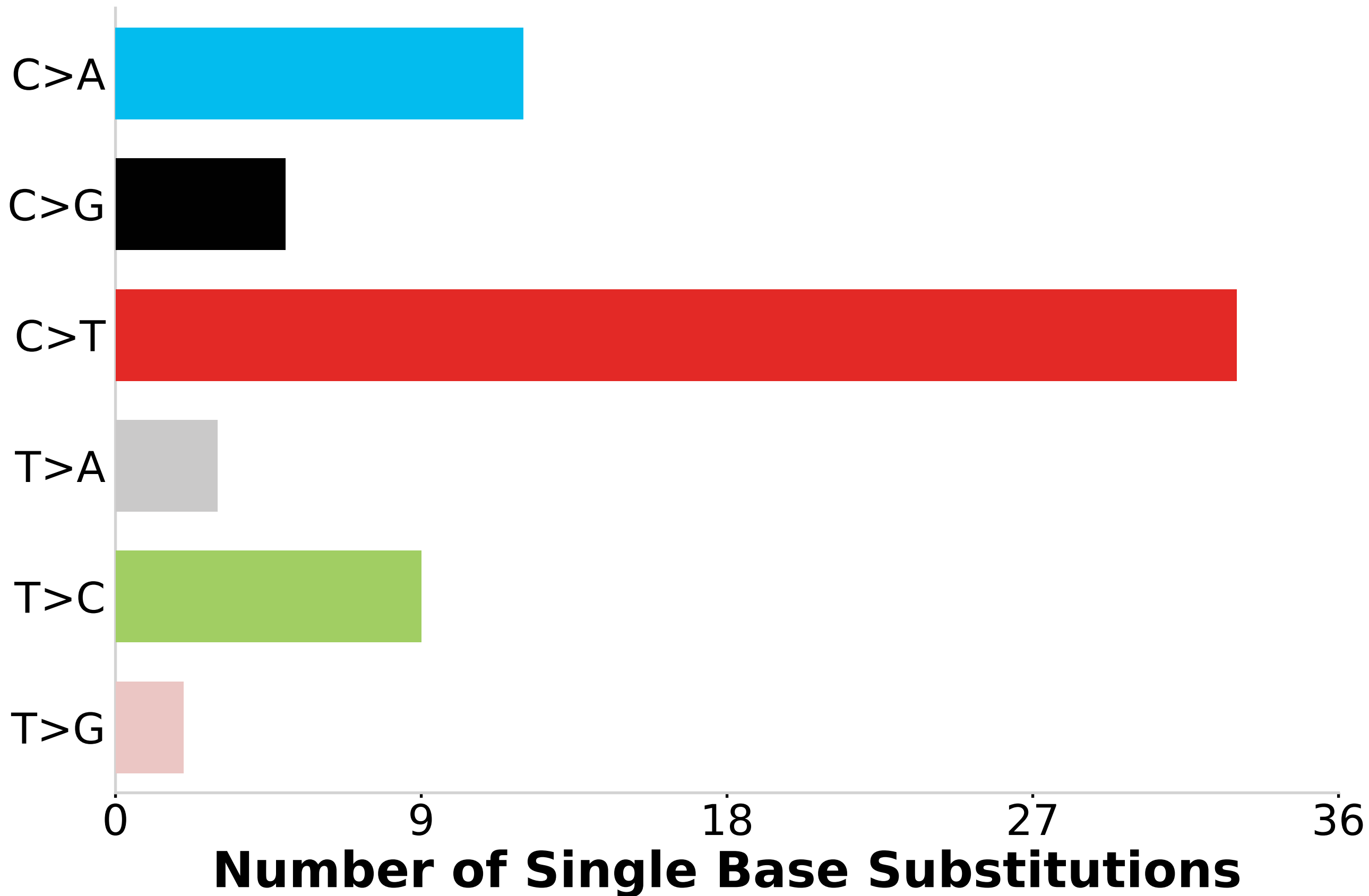
TCGA-CF-A47X-01A-31D-A23U-08: 310 sub



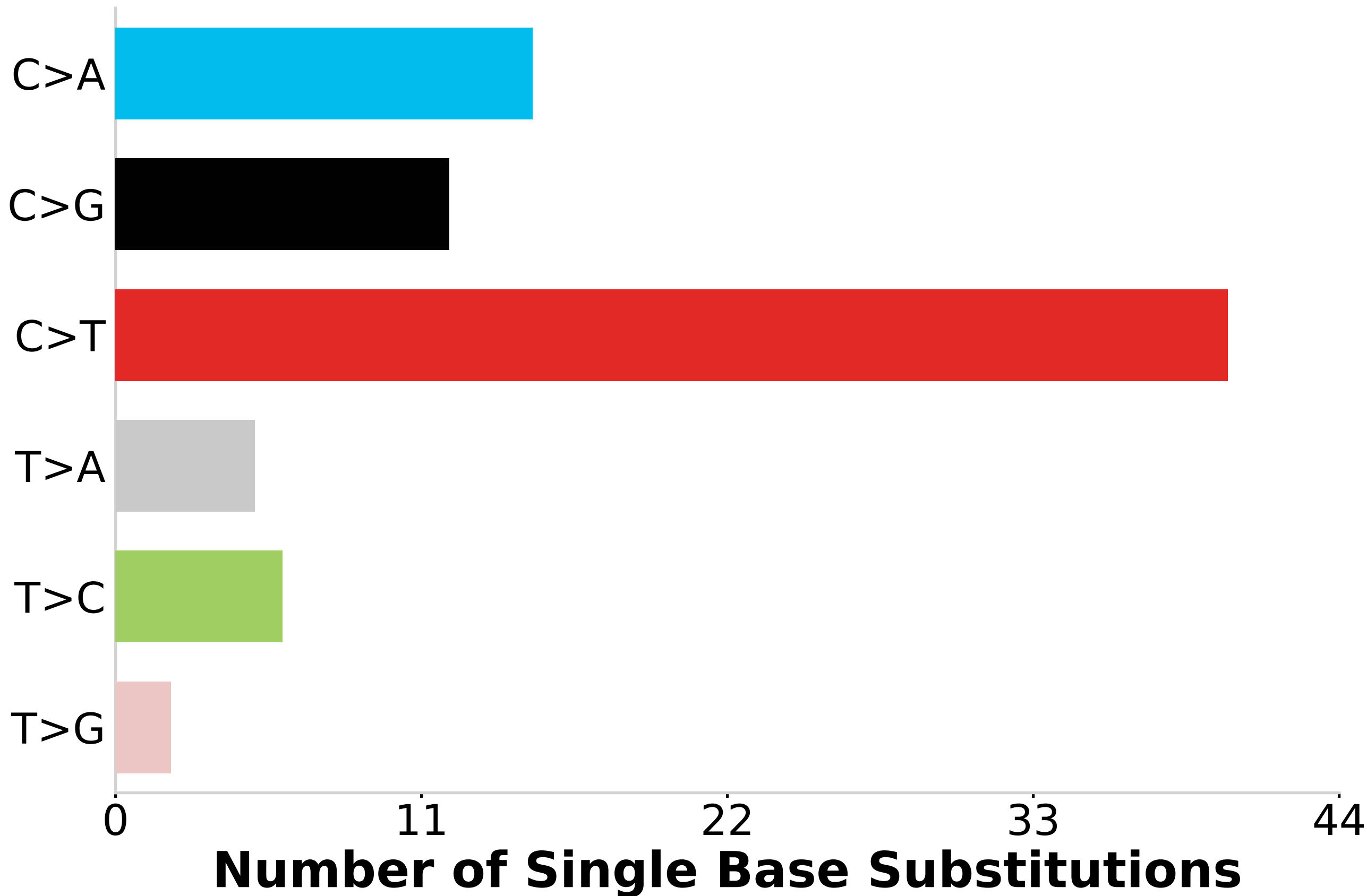
TCGA-CF-A47Y-01A-11D-A23U-08: 65 subs



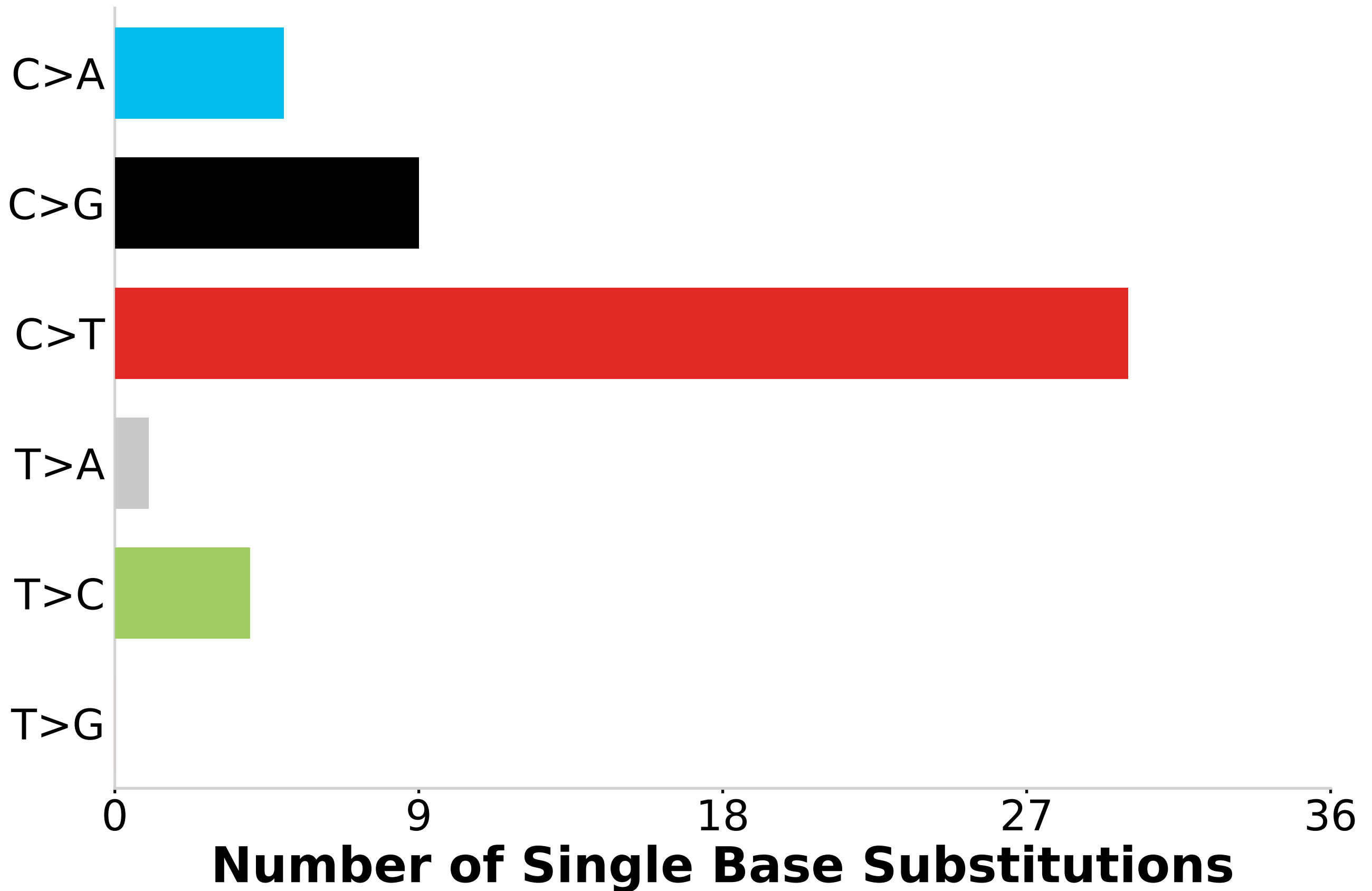
TCGA-CF-A5U8-01A-11D-A289-08: 64 subs



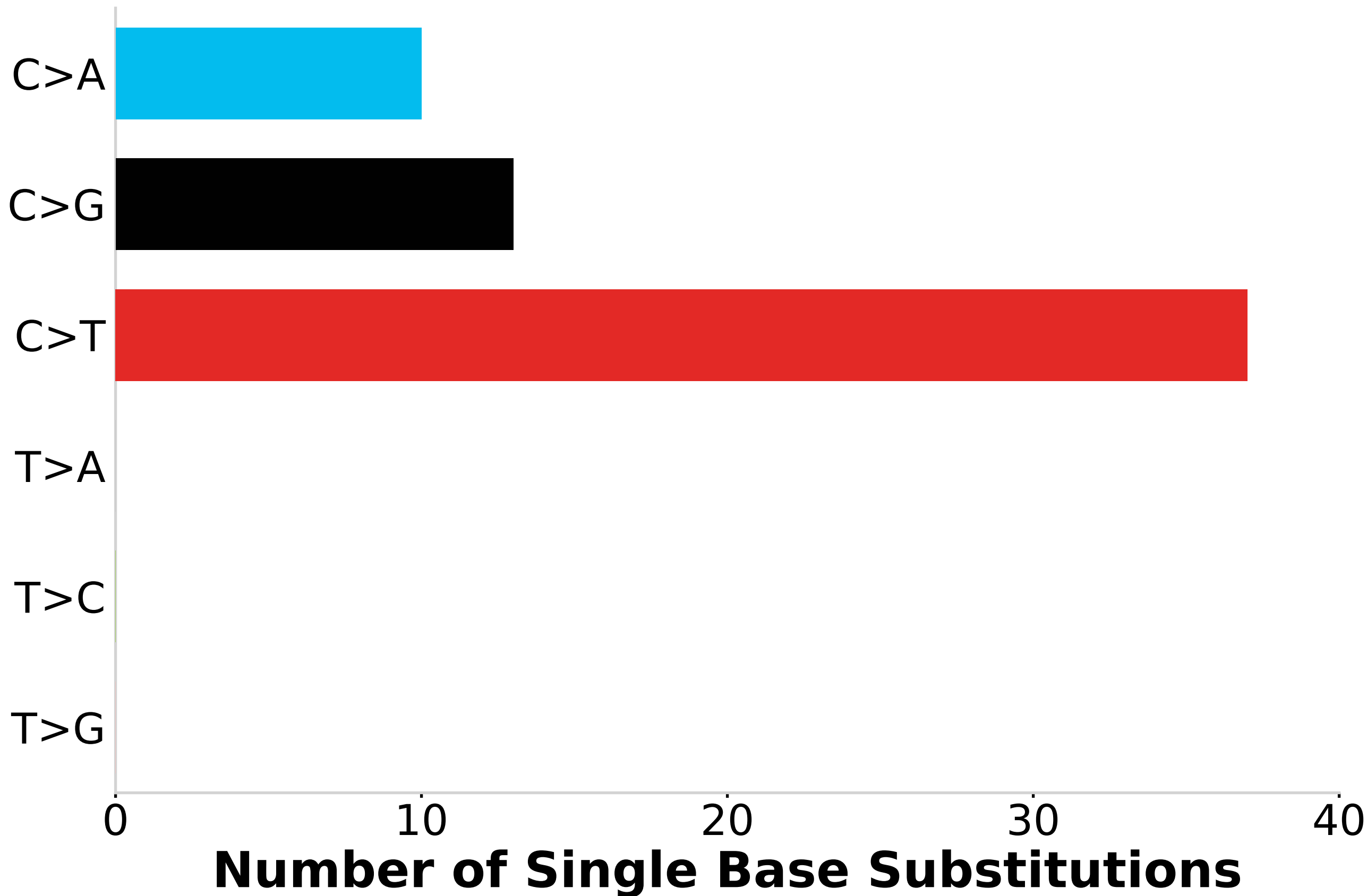
TCGA-CF-A5UA-01A-11D-A289-08: 80 subs



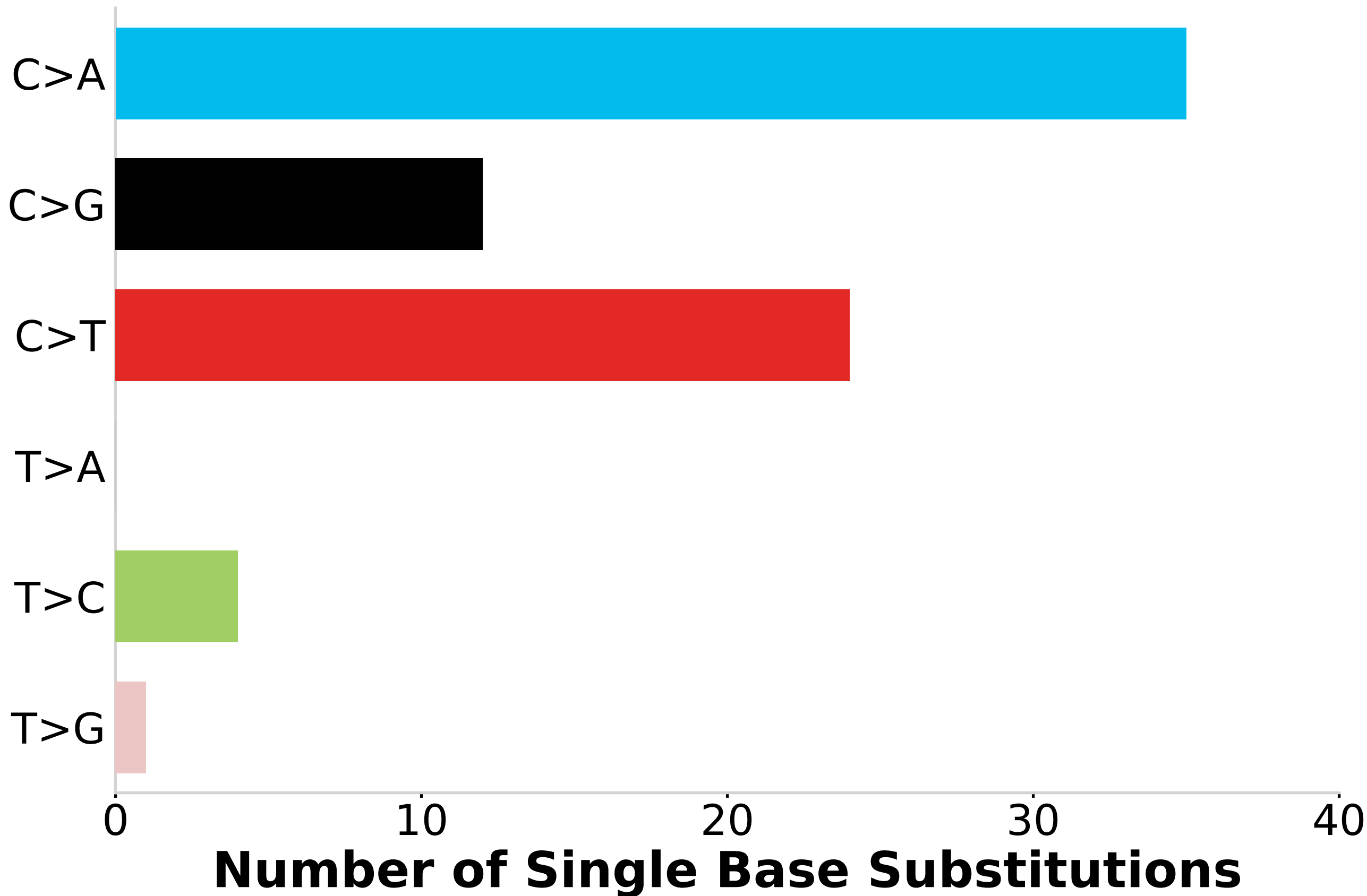
TCGA-CF-A710-01A-22D-A34U-08: 49 subs



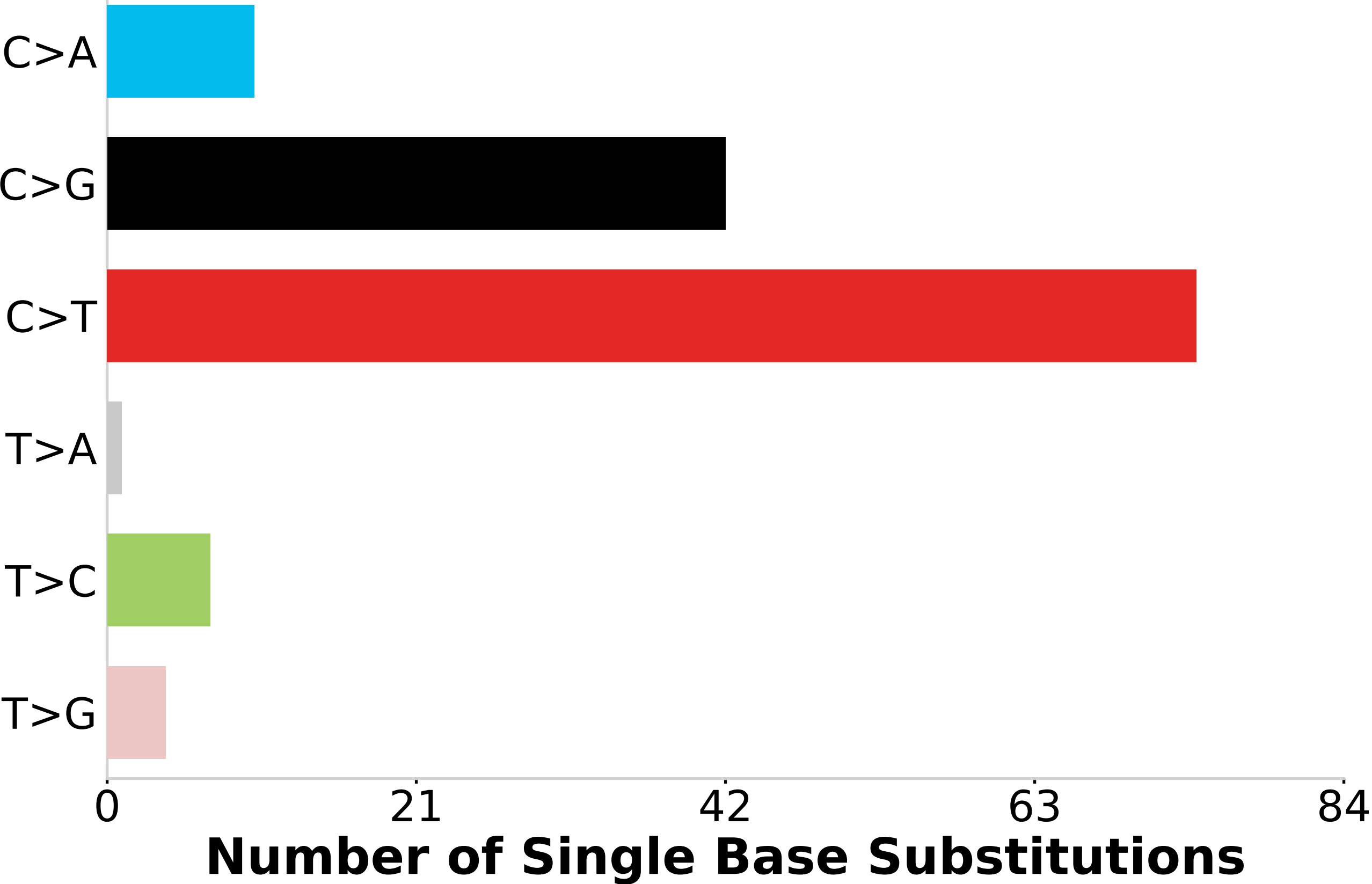
TCGA-CF-A8HX-01A-11D-A364-08: 60 subs



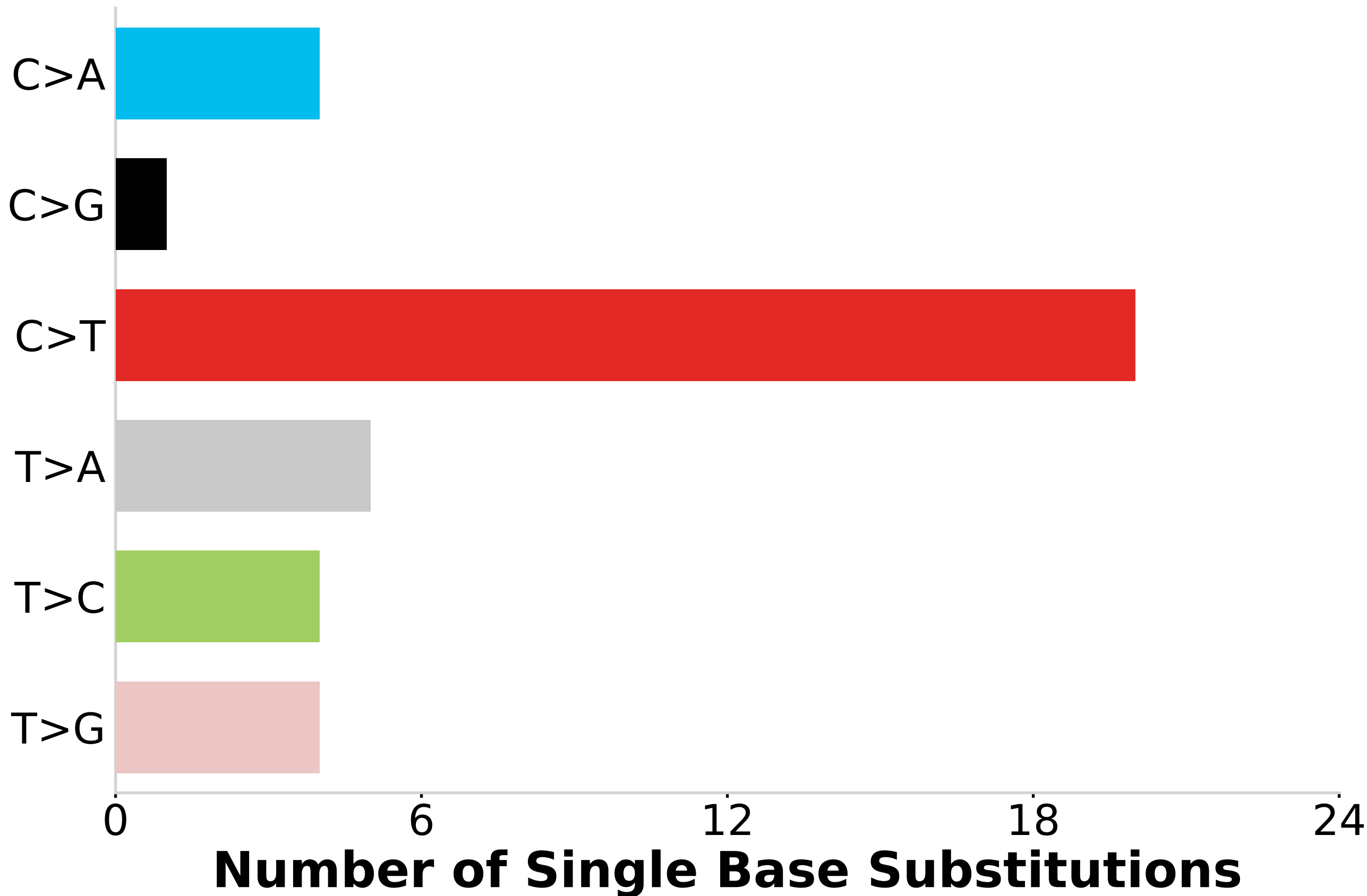
TCGA-CF-A8HY-01A-11D-A364-08: 76 subs



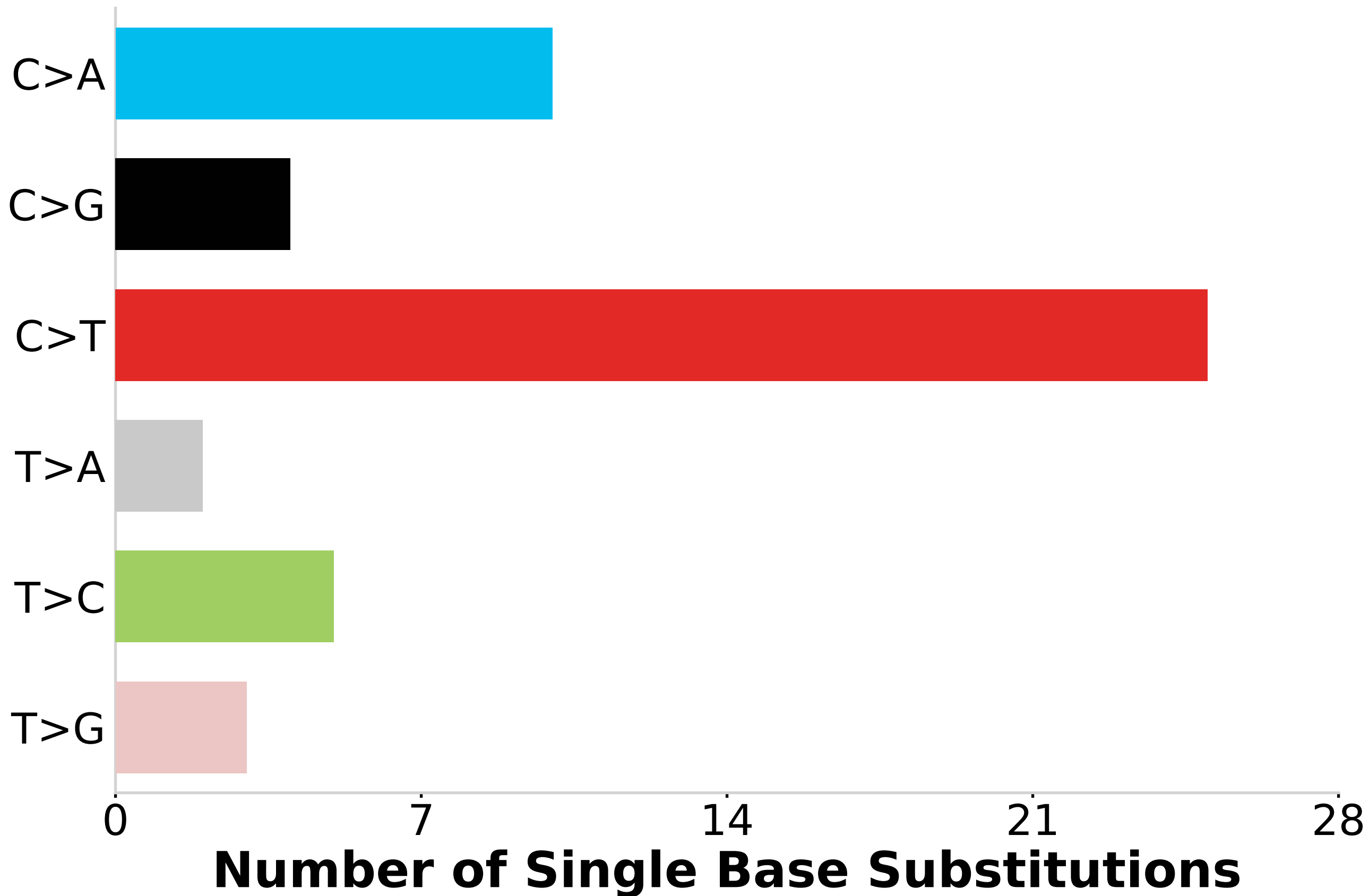
TCGA-CF-A9FF-01A-11D-A38G-08: 138 sub



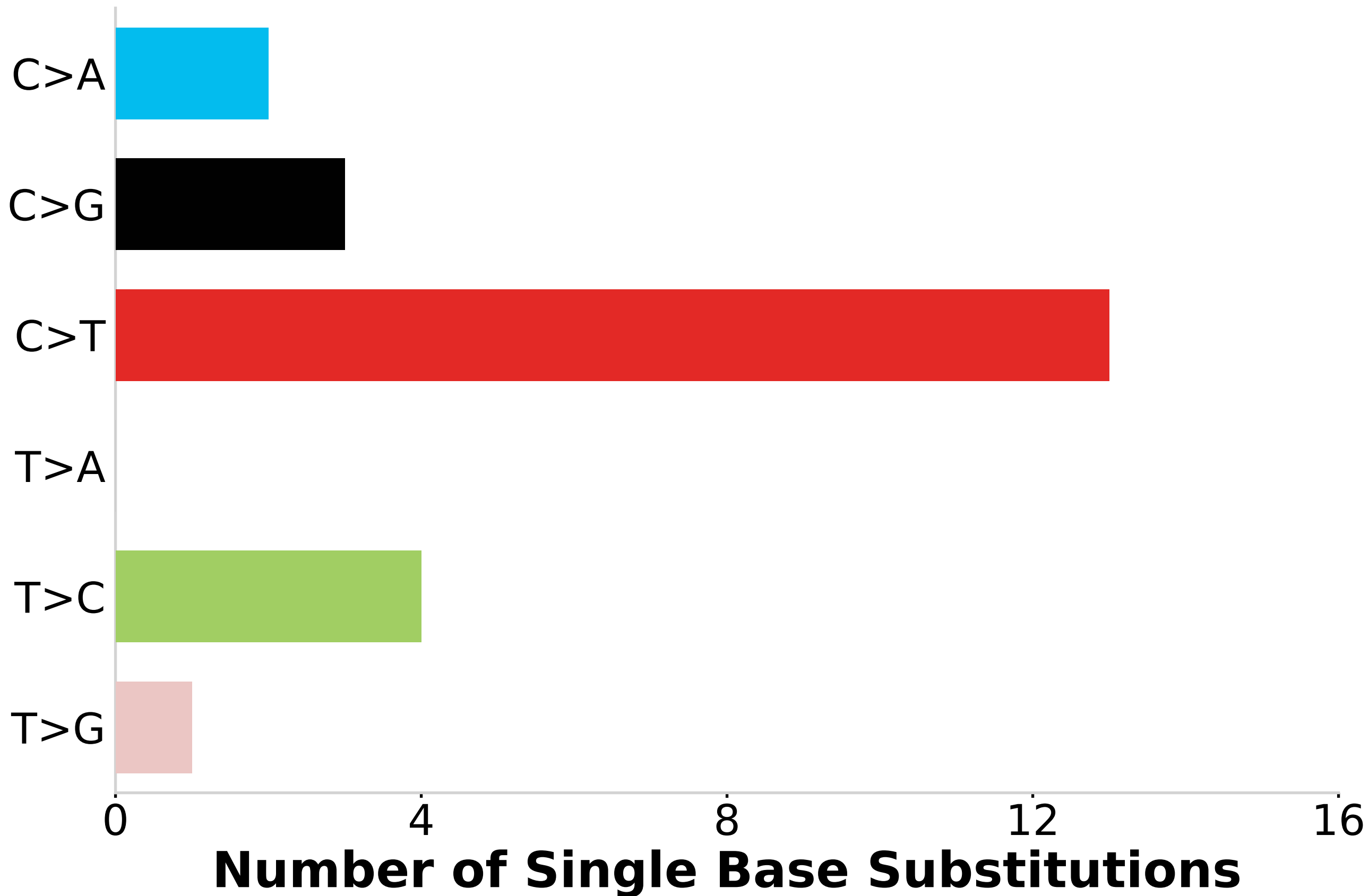
TCGA-CF-A9FH-01A-11D-A38G-08: 38 subs



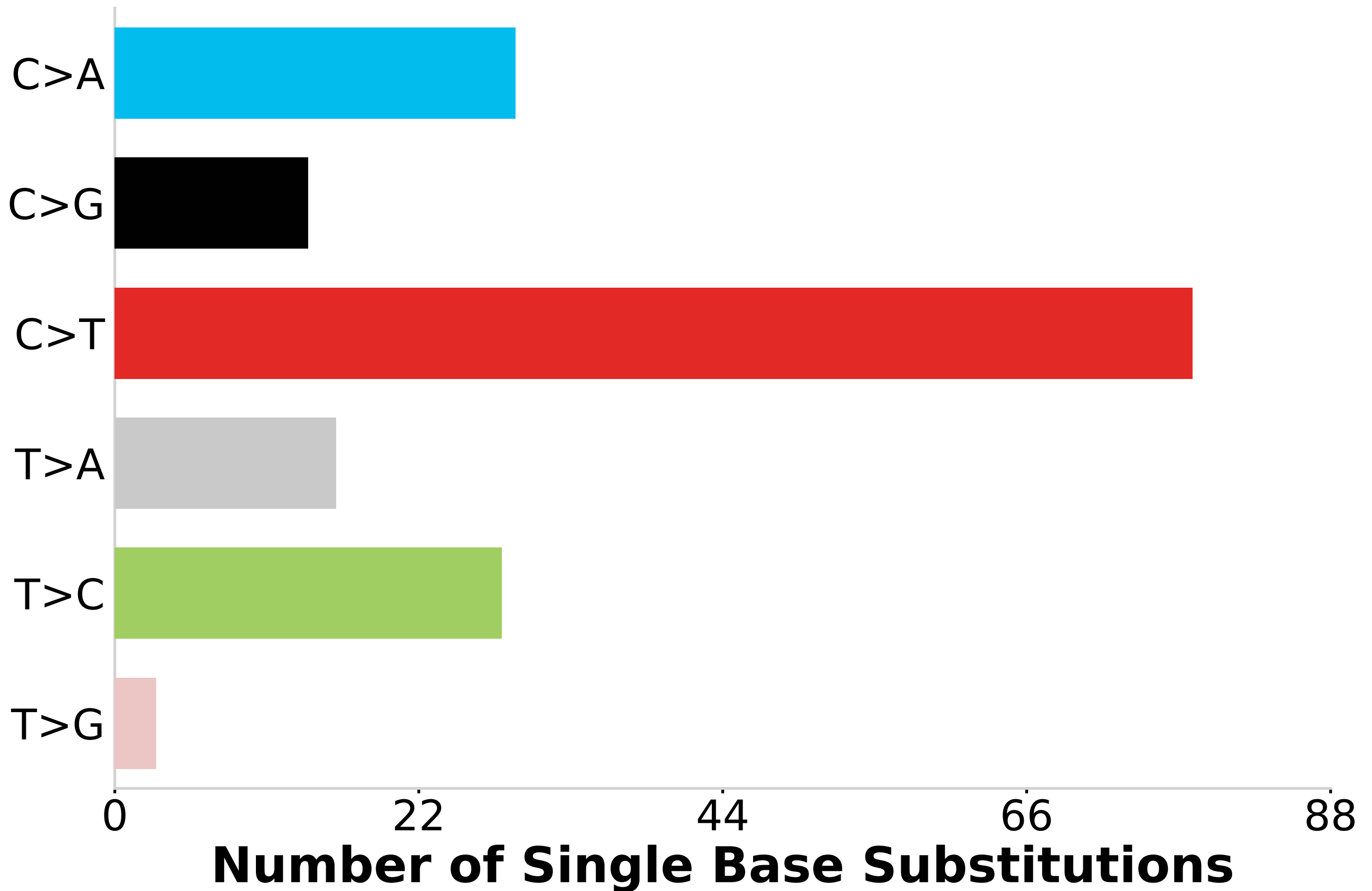
TCGA-CF-A9FL-01A-11D-A38G-08: 49 subs



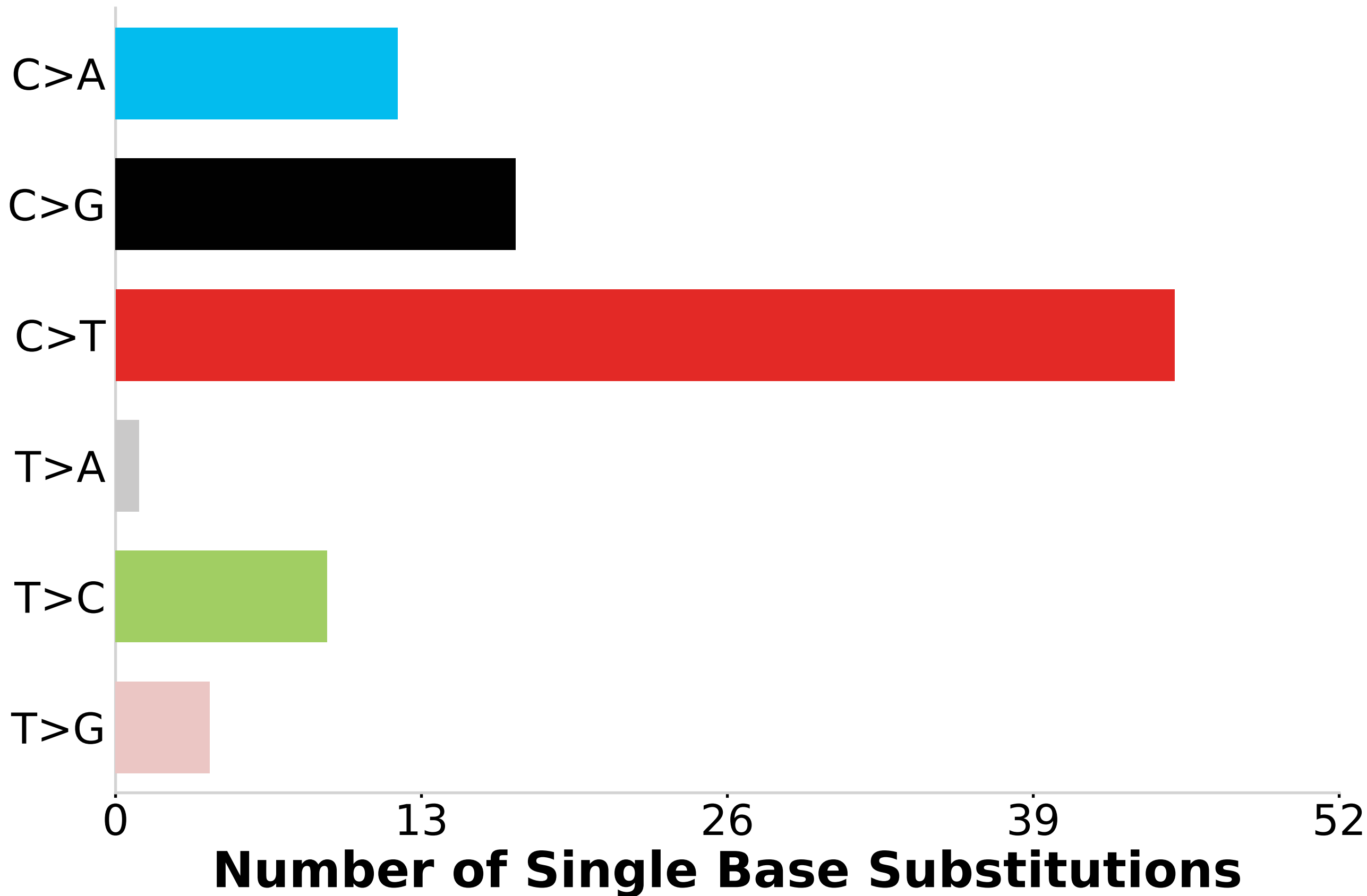
TCGA-CF-A9FM-01A-11D-A38G-08: 23 subs



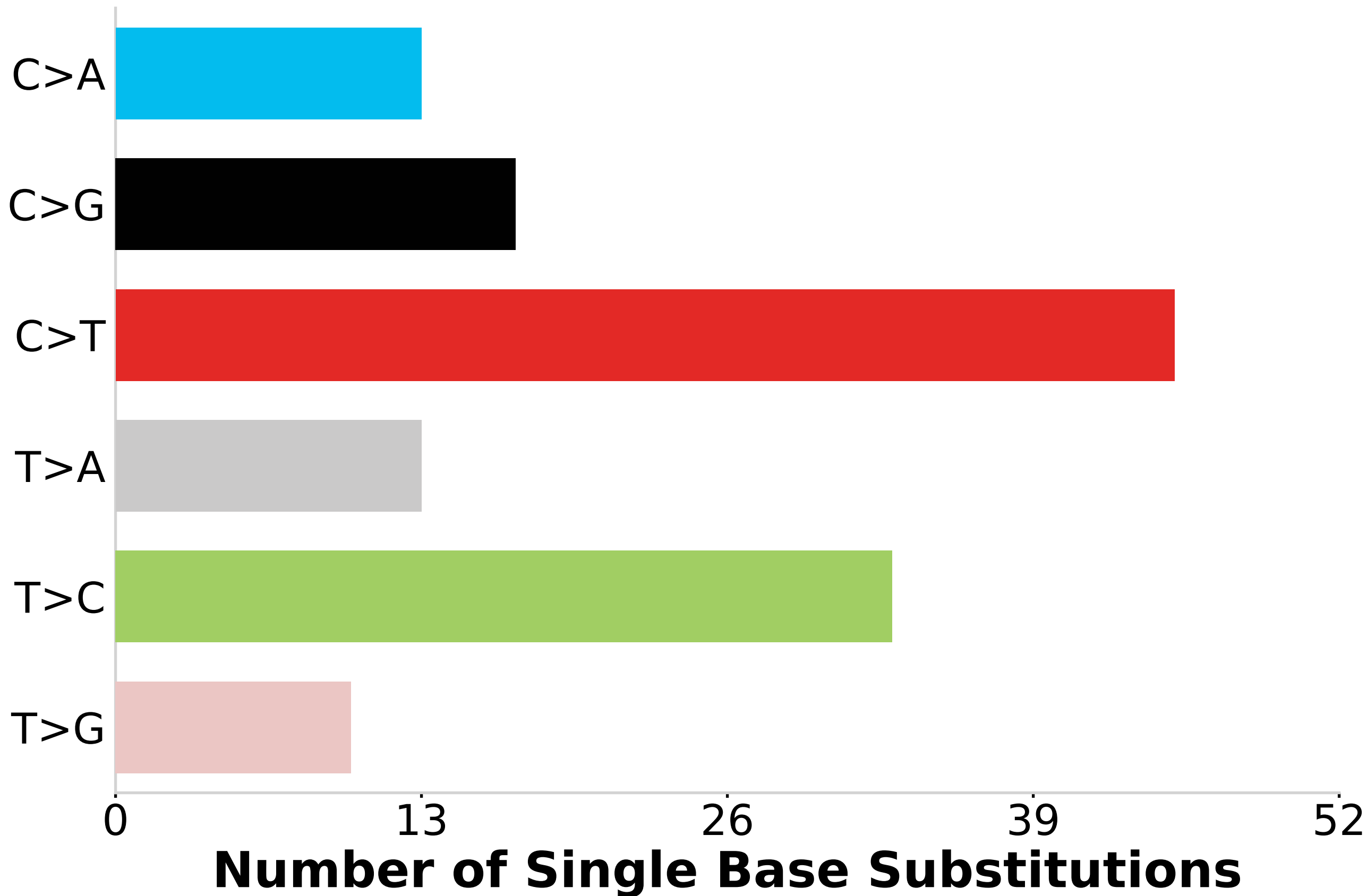
TCGA-CU-A0YN-01A-21D-A10S-08: 168 sub



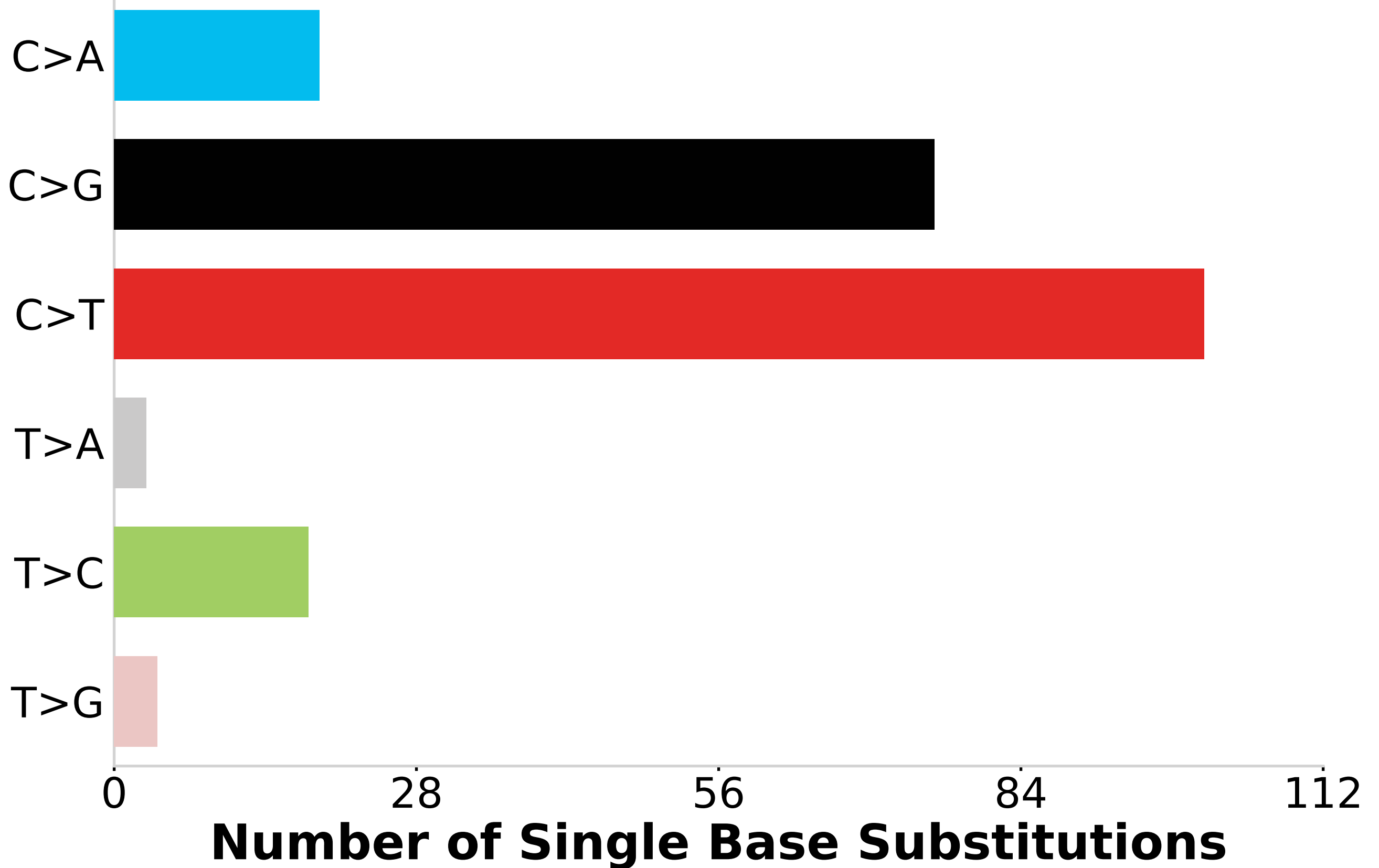
TCGA-CU-A0YO-01A-11D-A10S-08: 88 subs



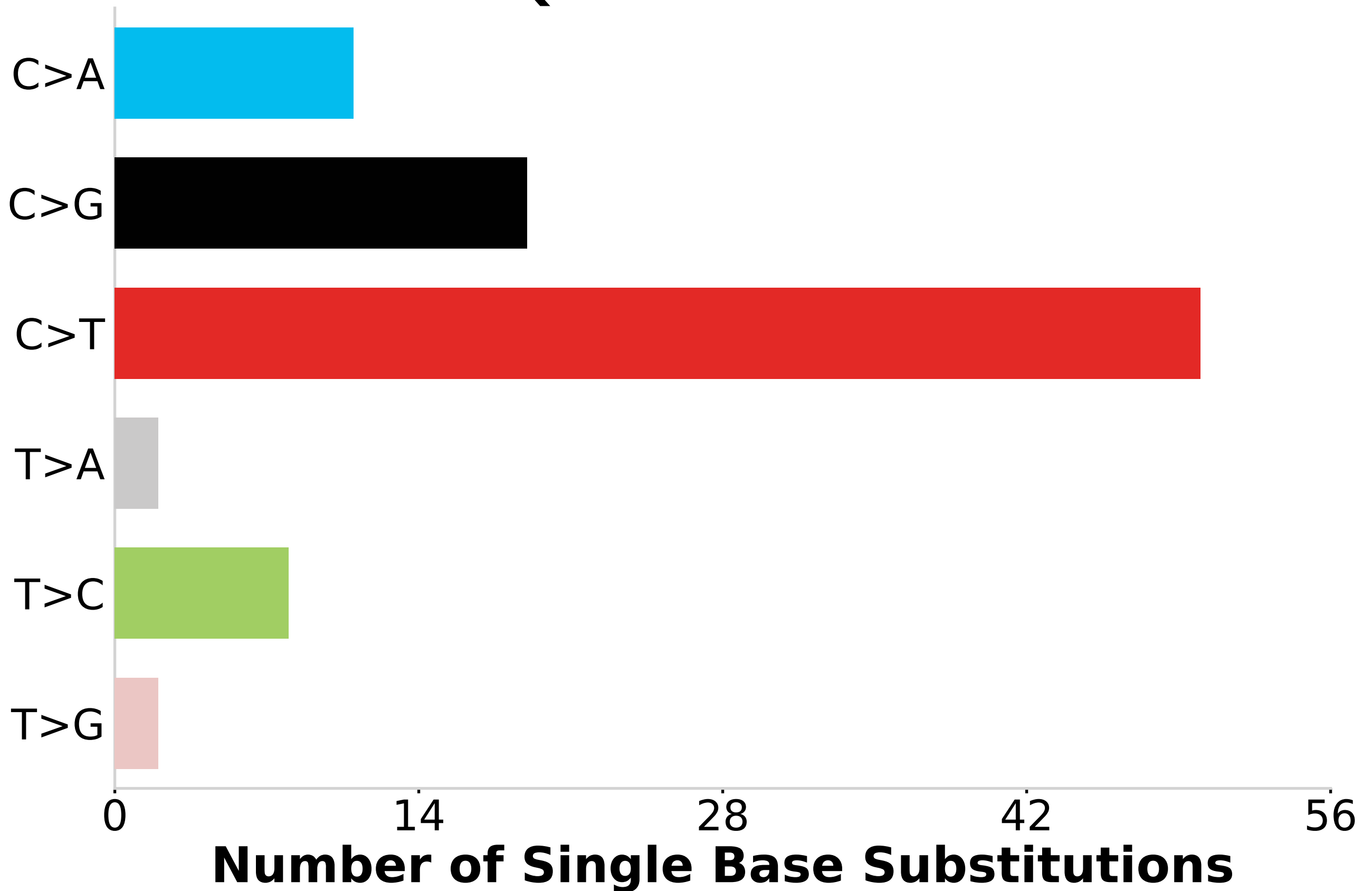
TCGA-CU-A0YR-01A-12D-A10S-08: 131 sub



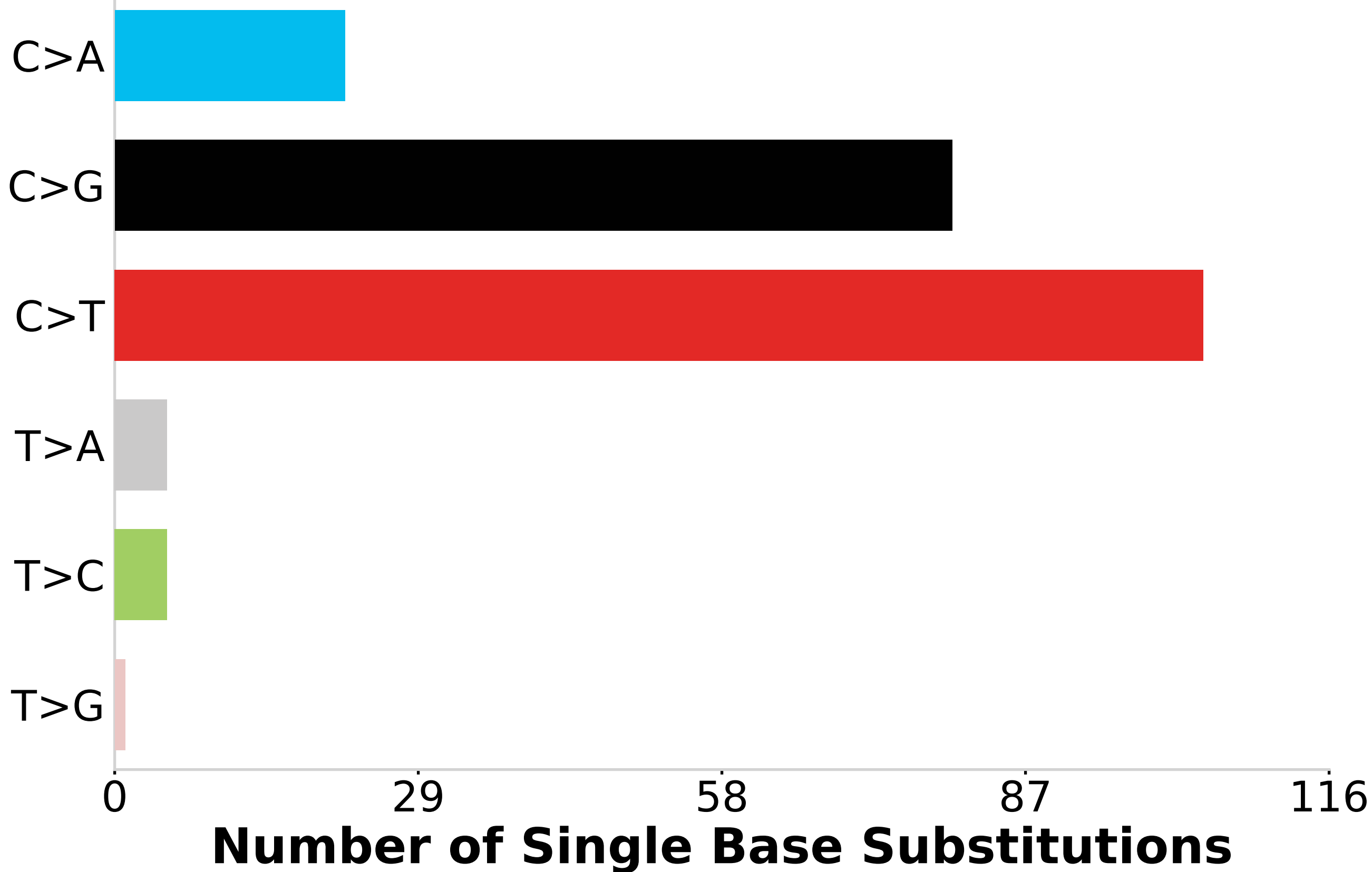
TCGA-CU-A3KJ-01A-11D-A21A-08: 221 sub



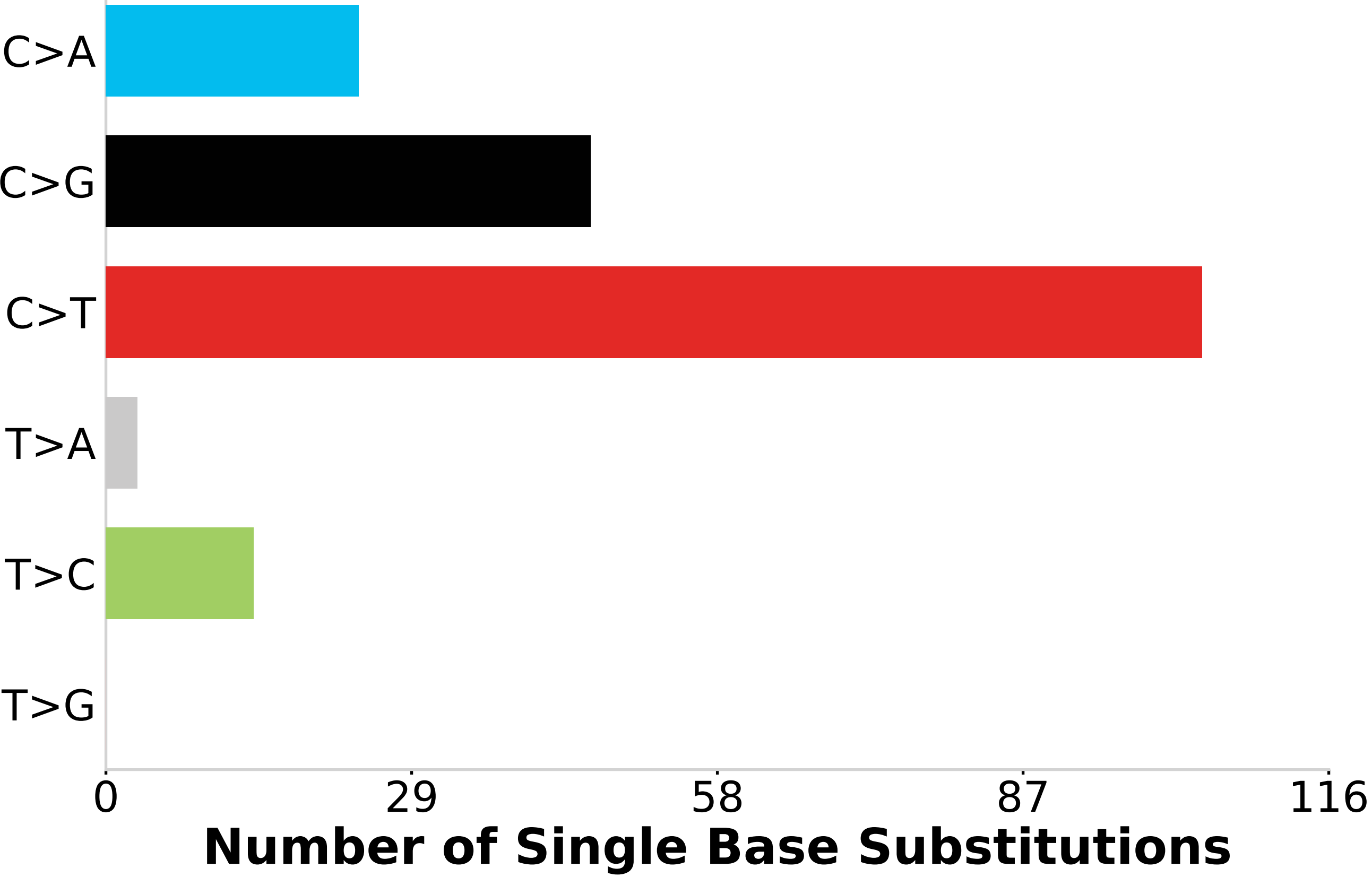
TCGA-CU-A3QU-01A-11D-A22Z-08: 92 subs



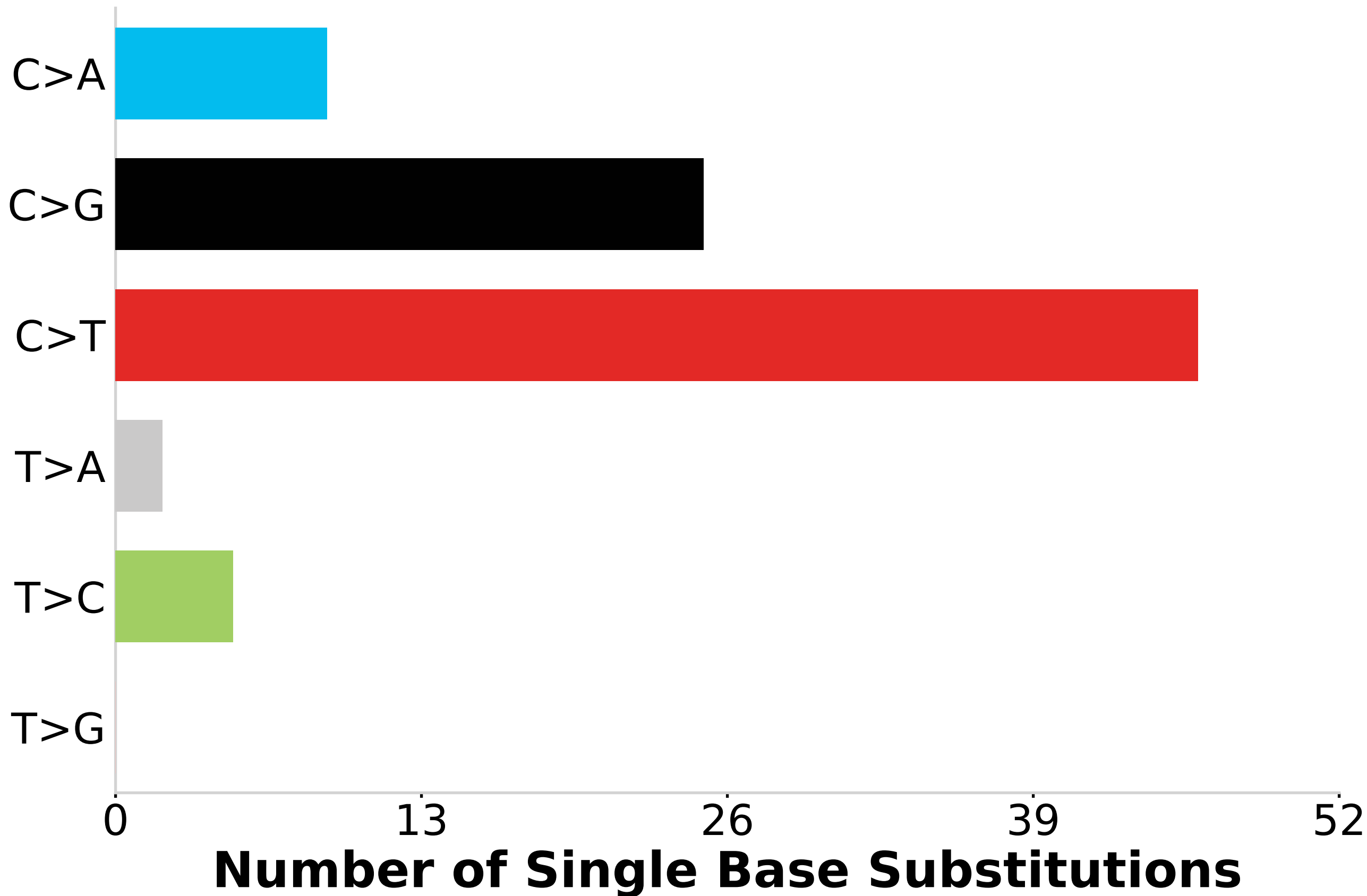
TCGA-CU-A3YL-01A-11D-A22Z-08: 217 sub



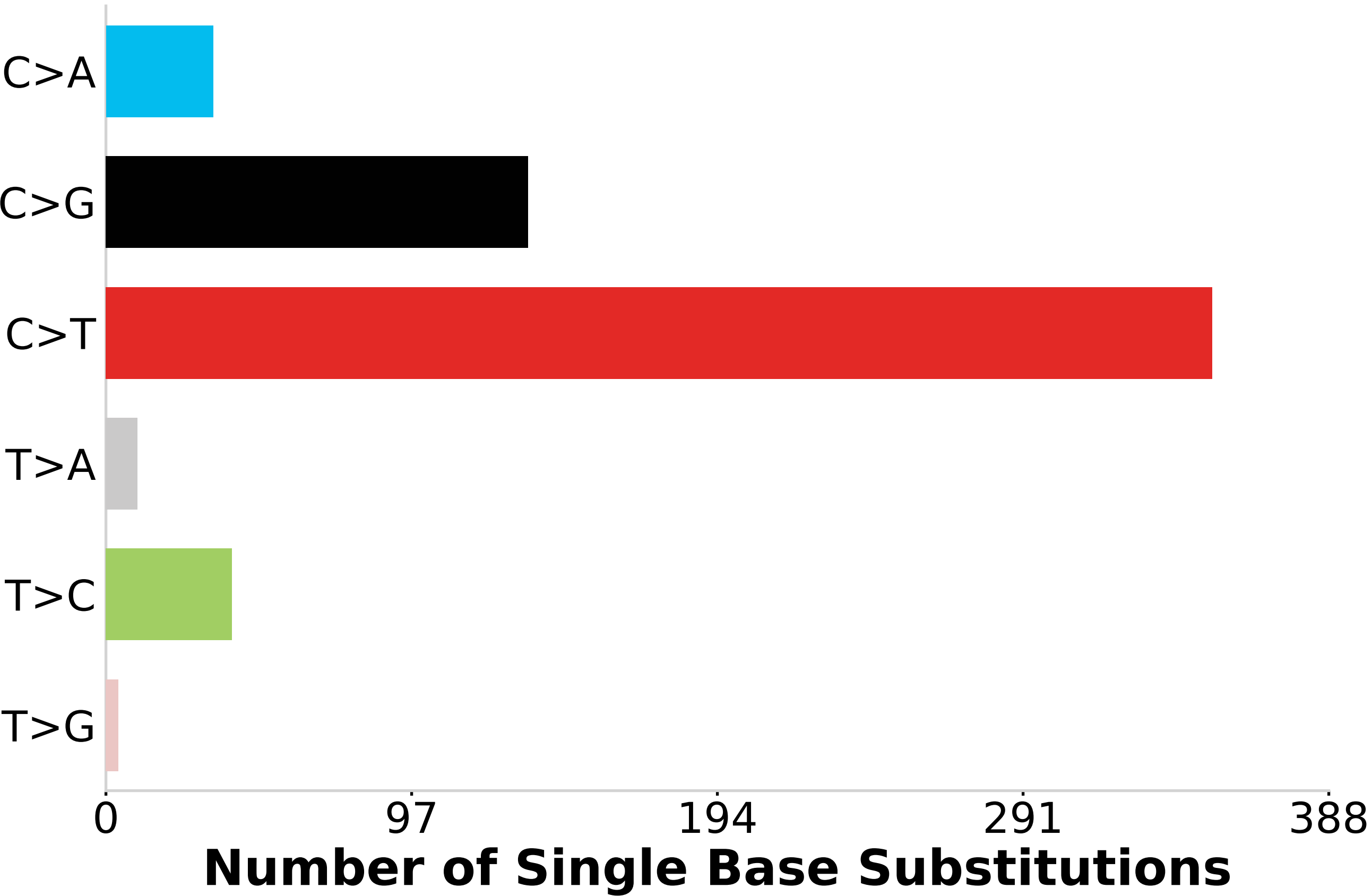
TCGA-CU-A5W6-01A-11D-A289-08: 191 sub



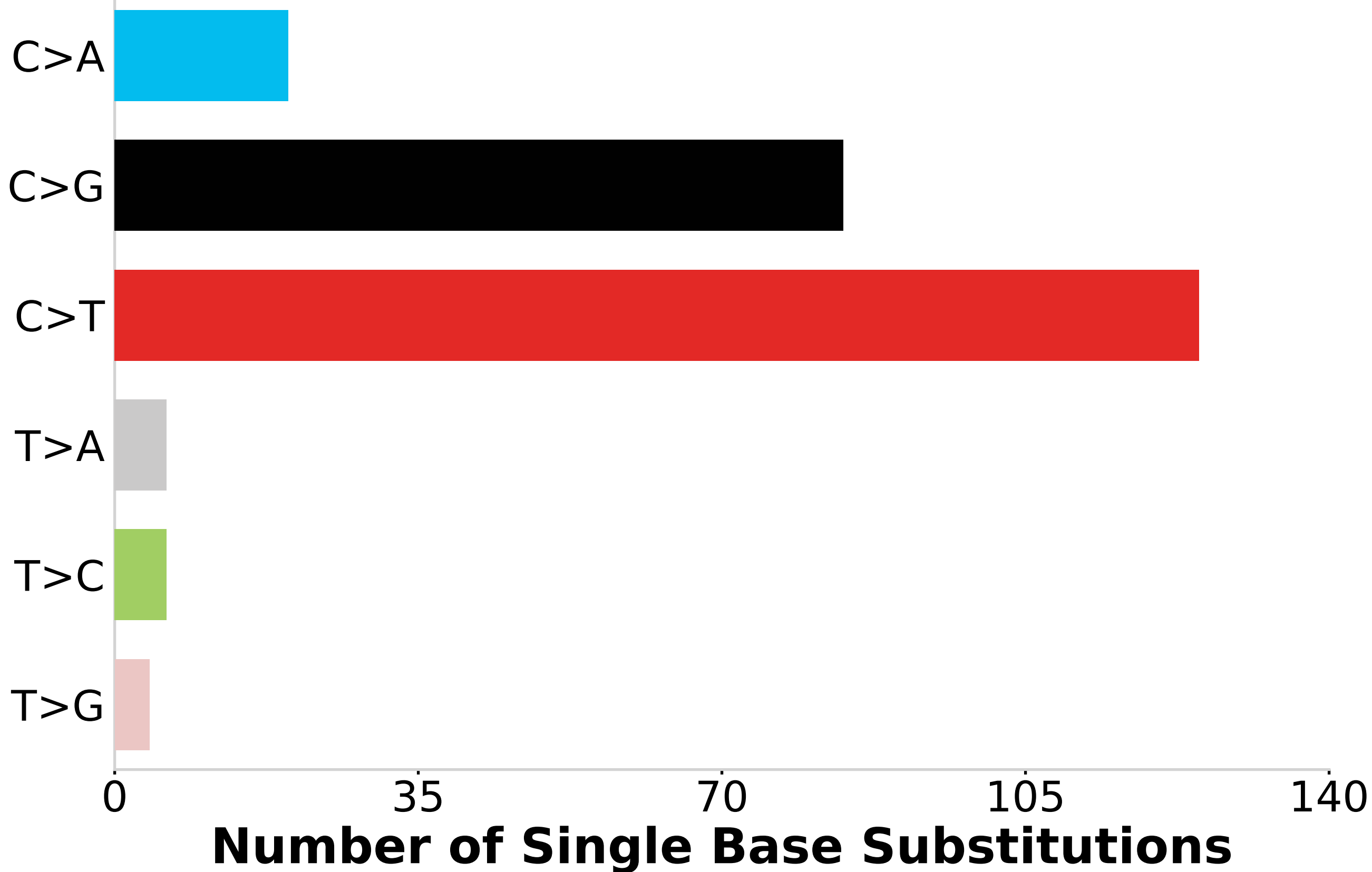
TCGA-CU-A72E-01A-12D-A339-08: 87 subs



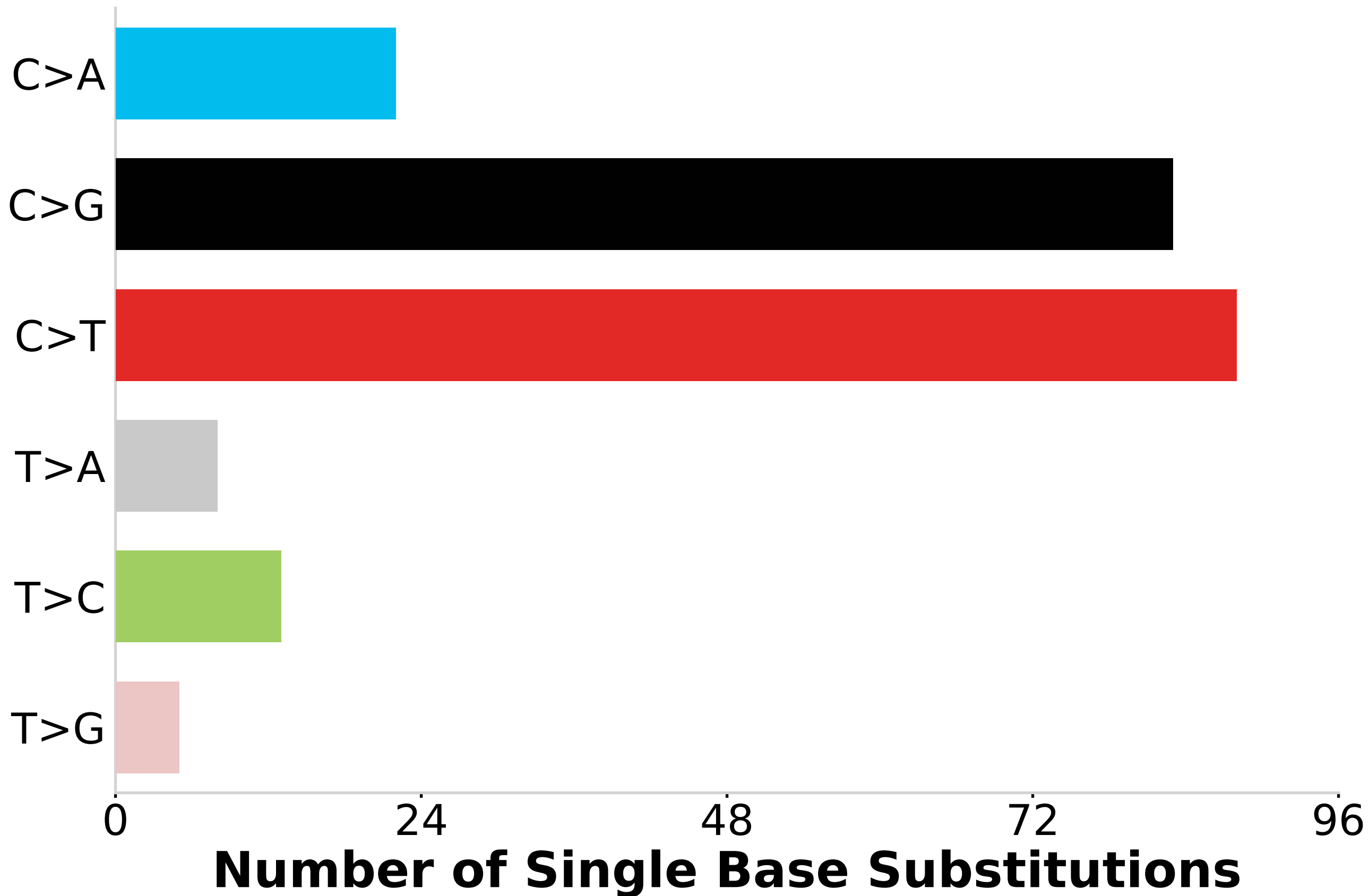
TCGA-DK-A1A3-01A-11D-A13W-08: 573 sub



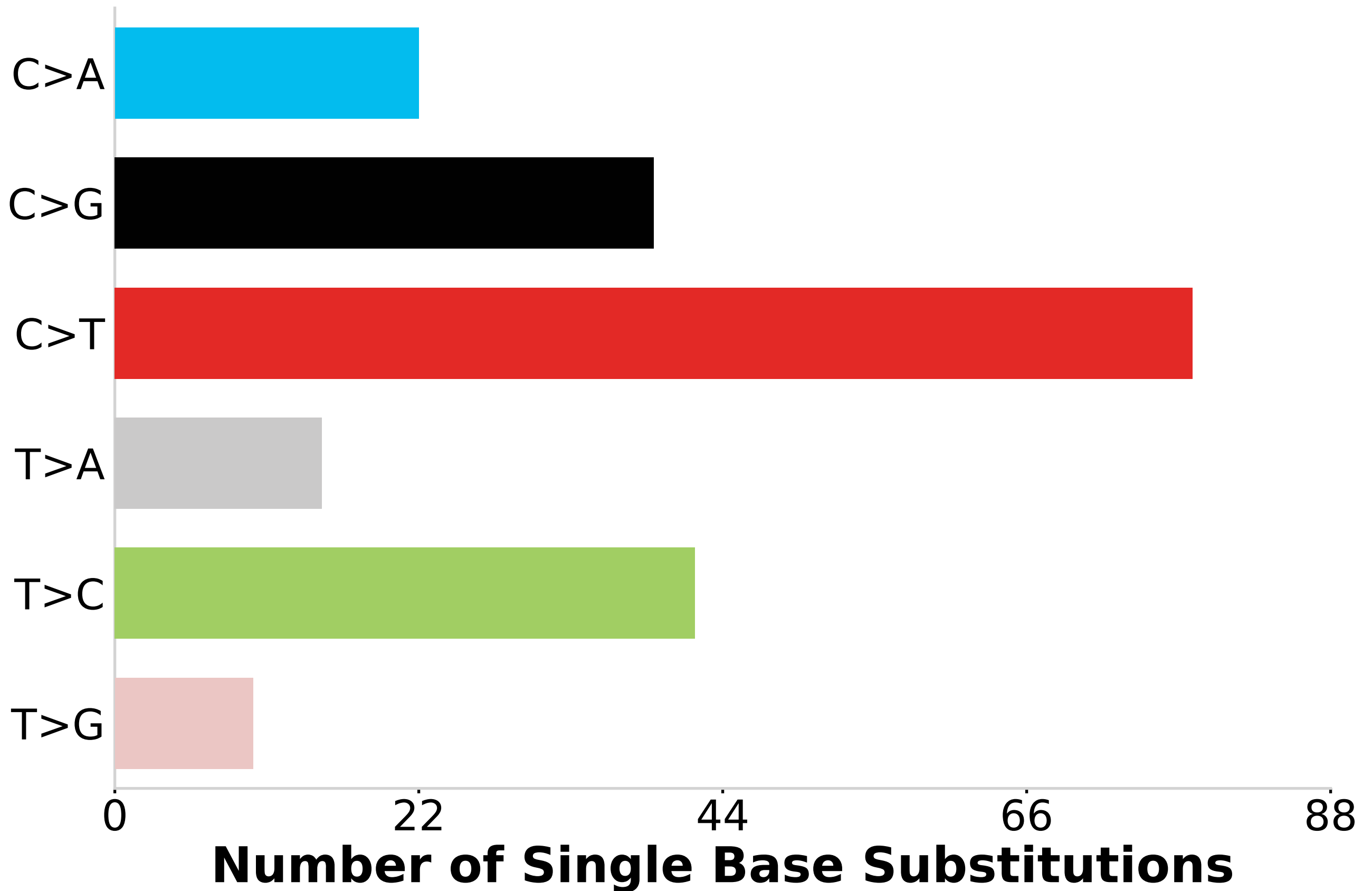
TCGA-DK-A1A5-01A-11D-A13W-08: 245 sub



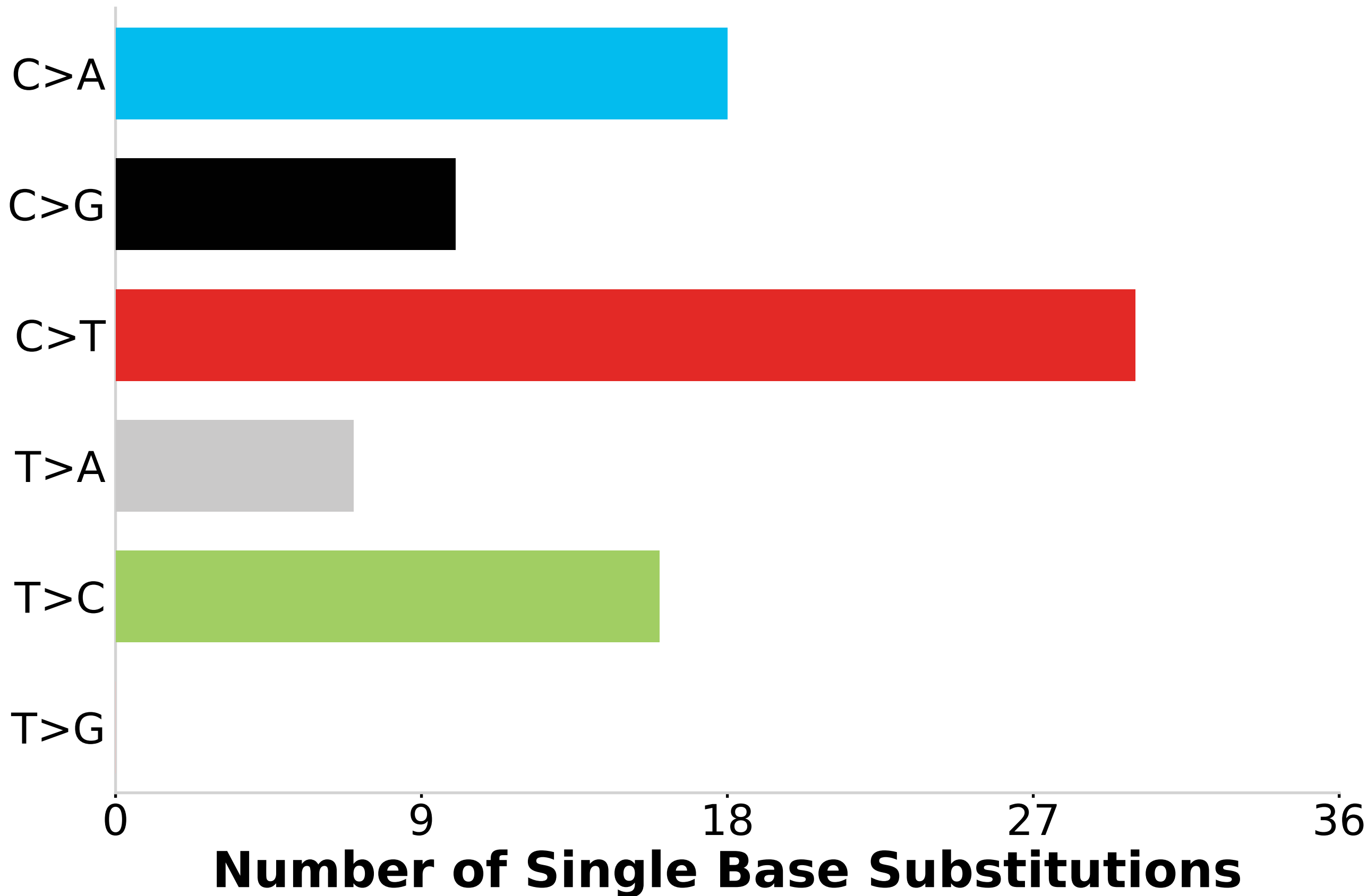
TCGA-DK-A1A6-01A-11D-A13W-08: 219 sub



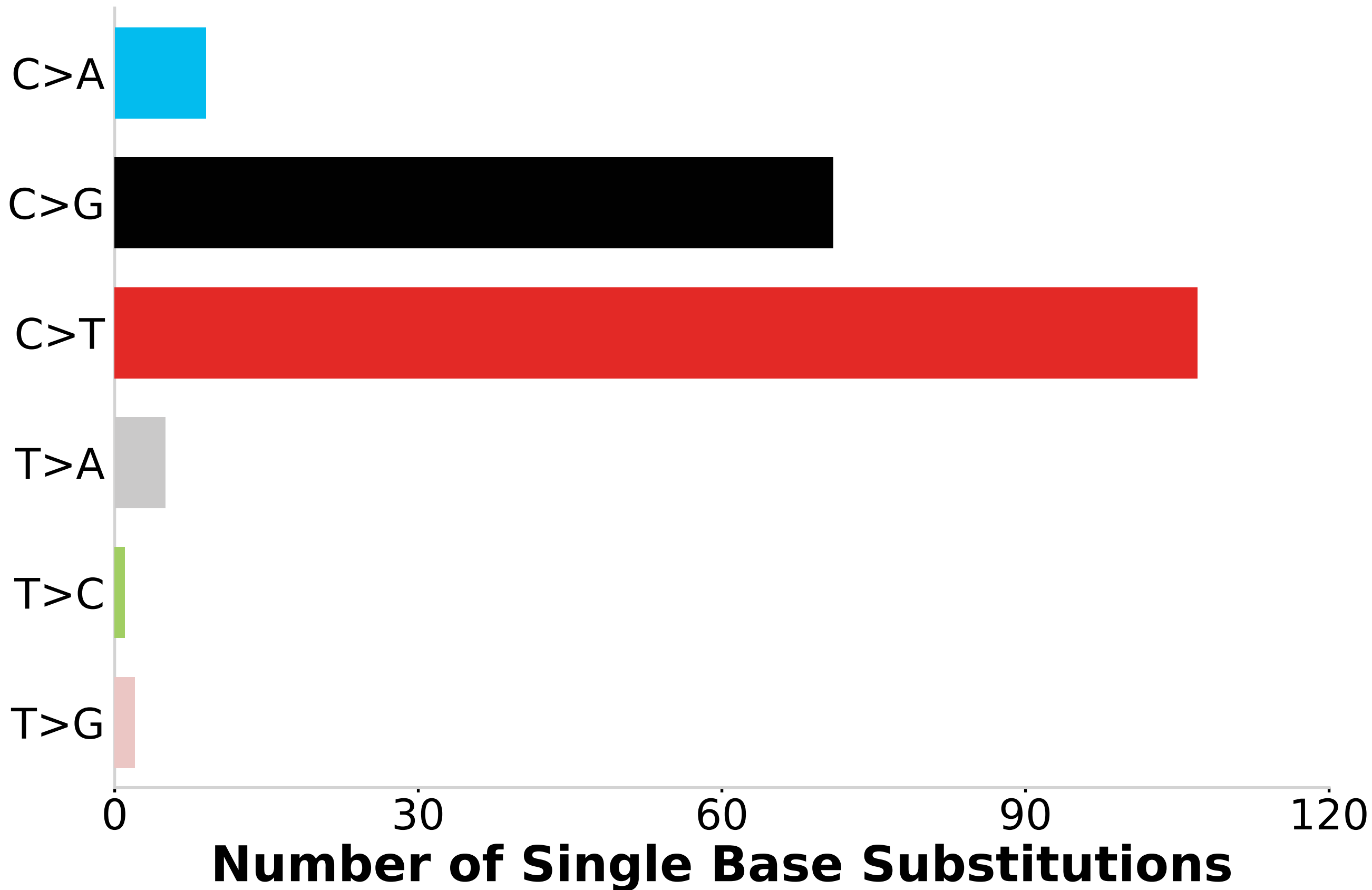
TCGA-DK-A1A7-01A-11D-A13W-08: 206 samples



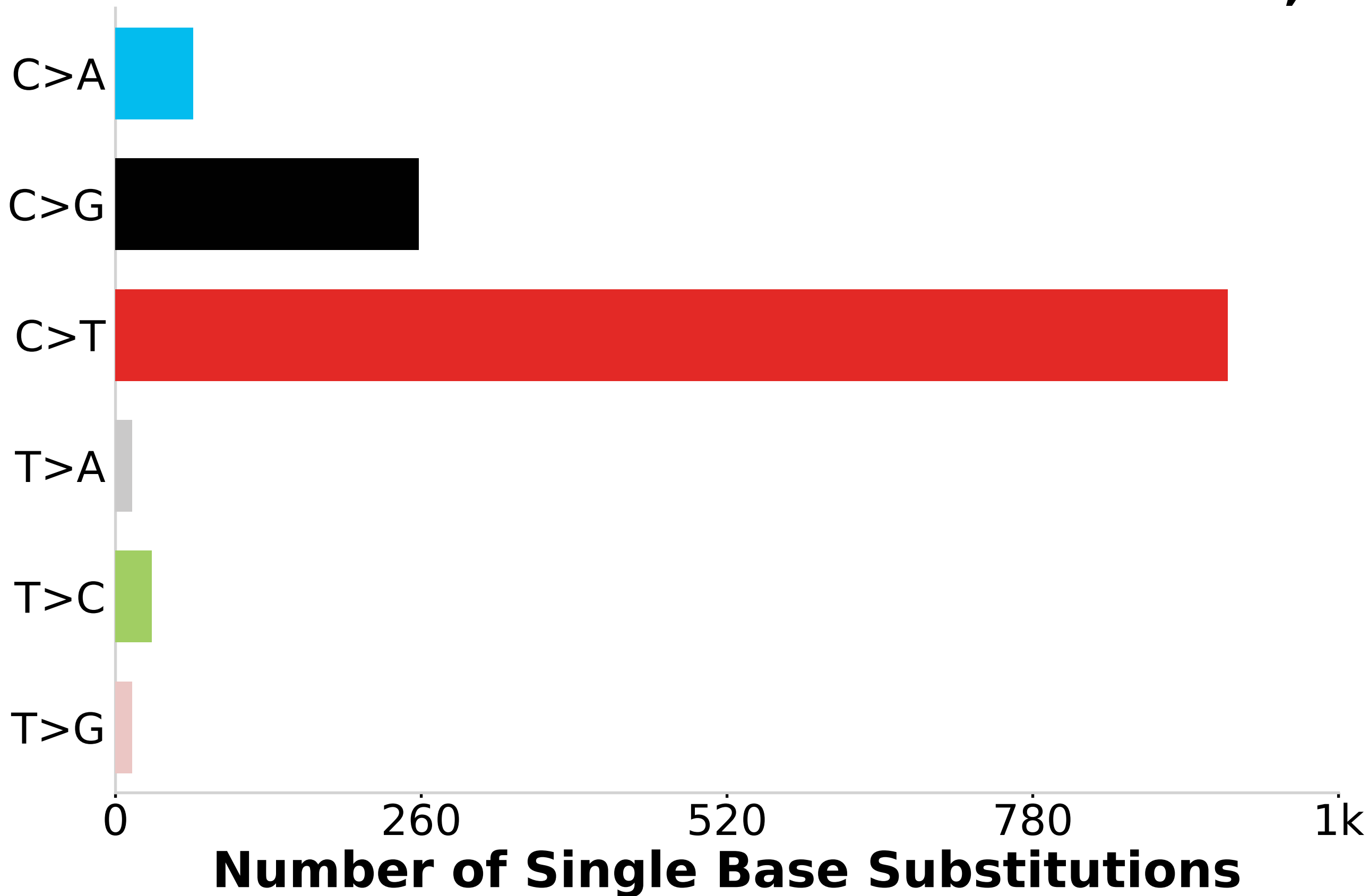
TCGA-DK-A1AA-01A-11D-A13W-08: 81 sub



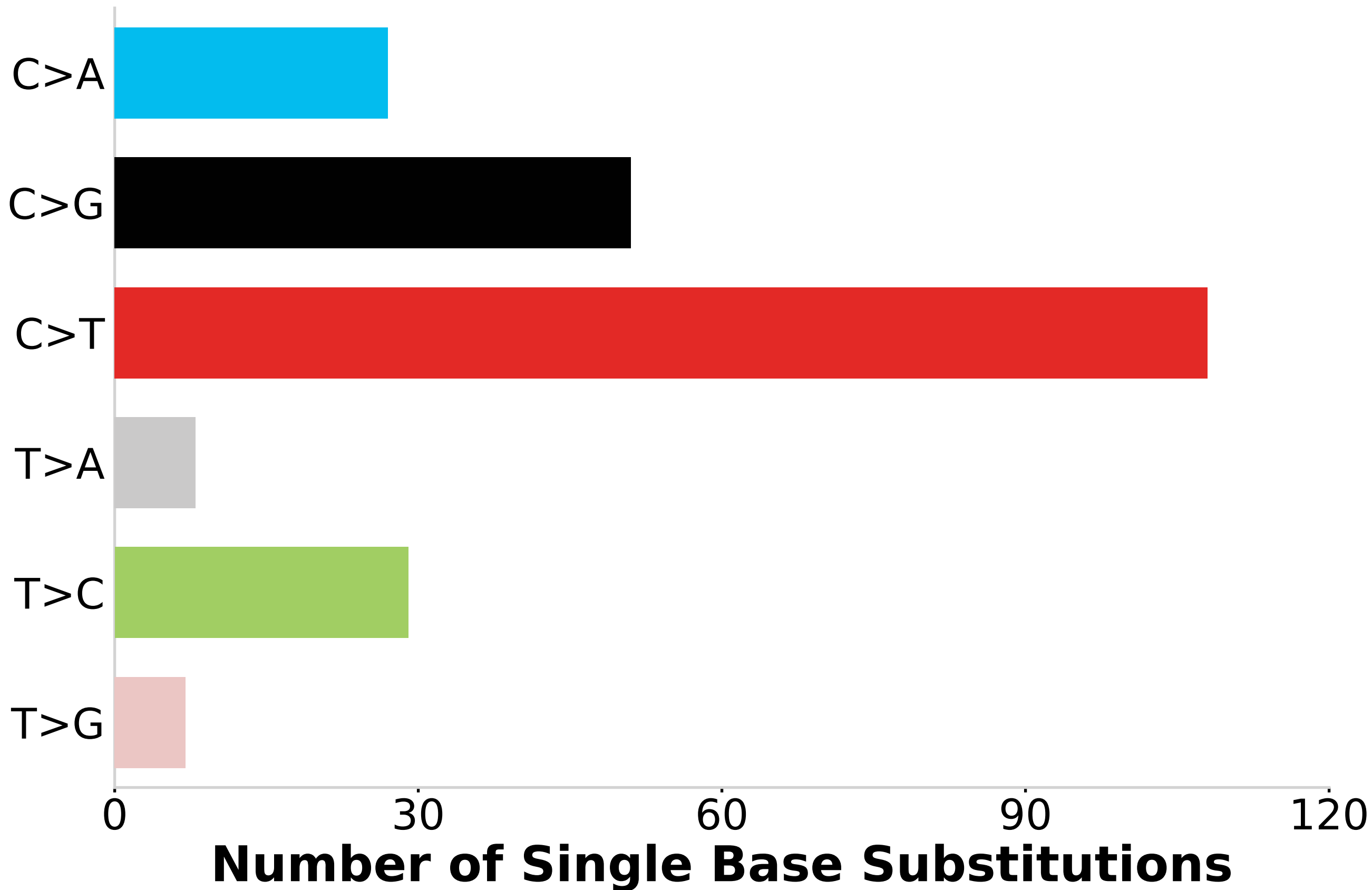
TCGA-DK-A1AB-01A-11D-A13W-08: 195 su



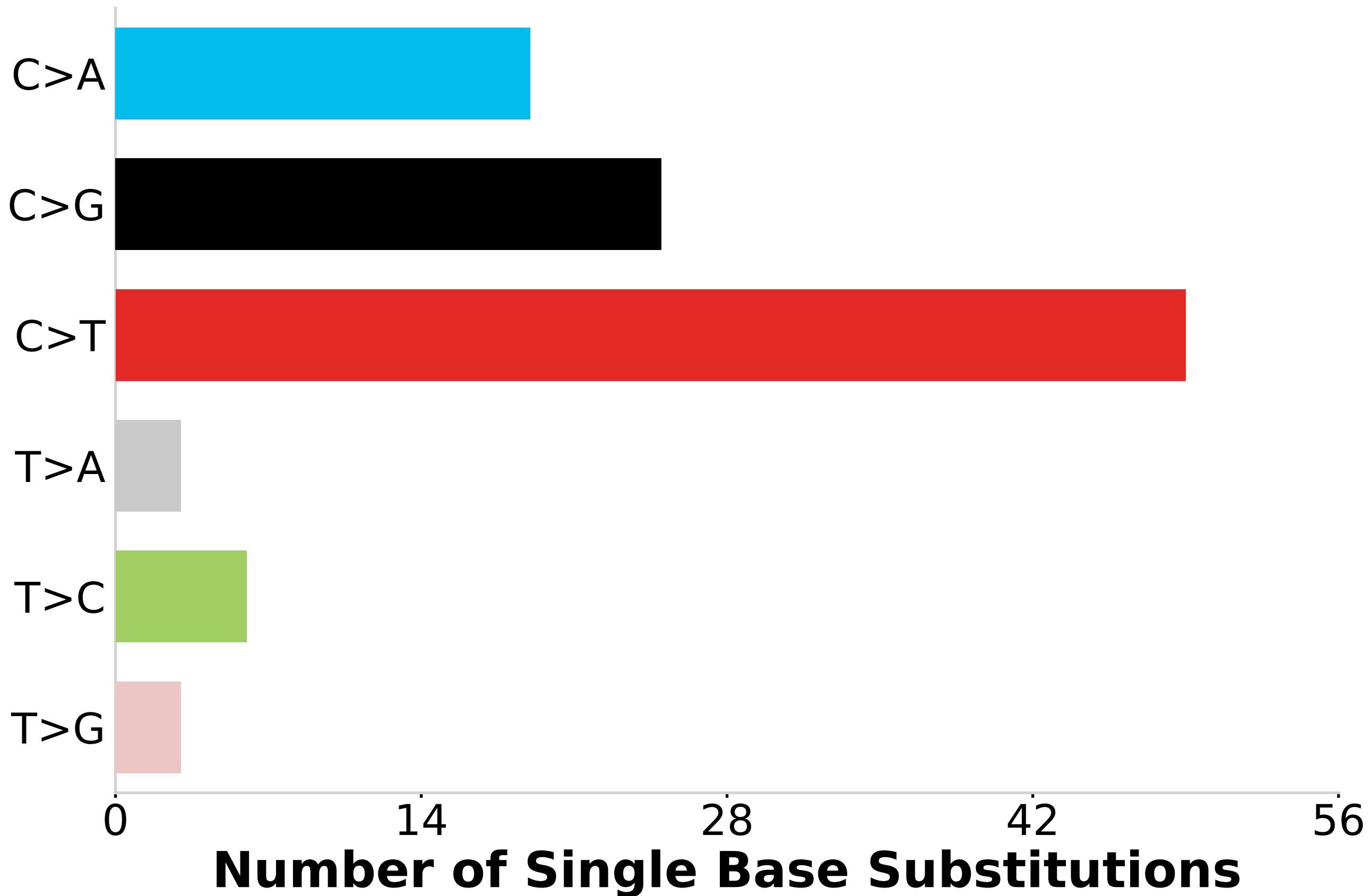
TCGA-DK-A1AC-01A-11D-A13W-08: 1,329 s



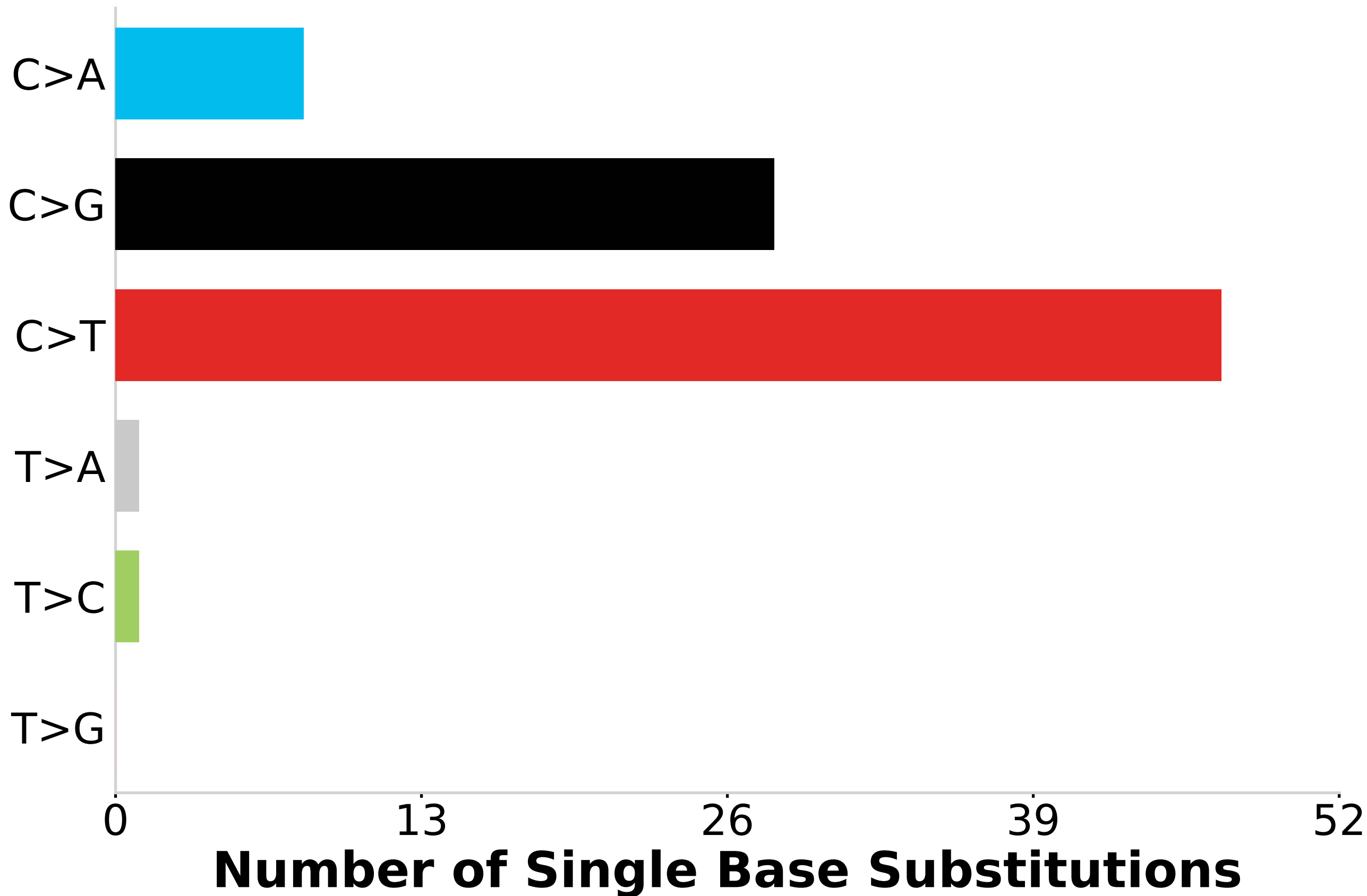
TCGA-DK-A1AD-01A-11D-A13W-08: 230 su



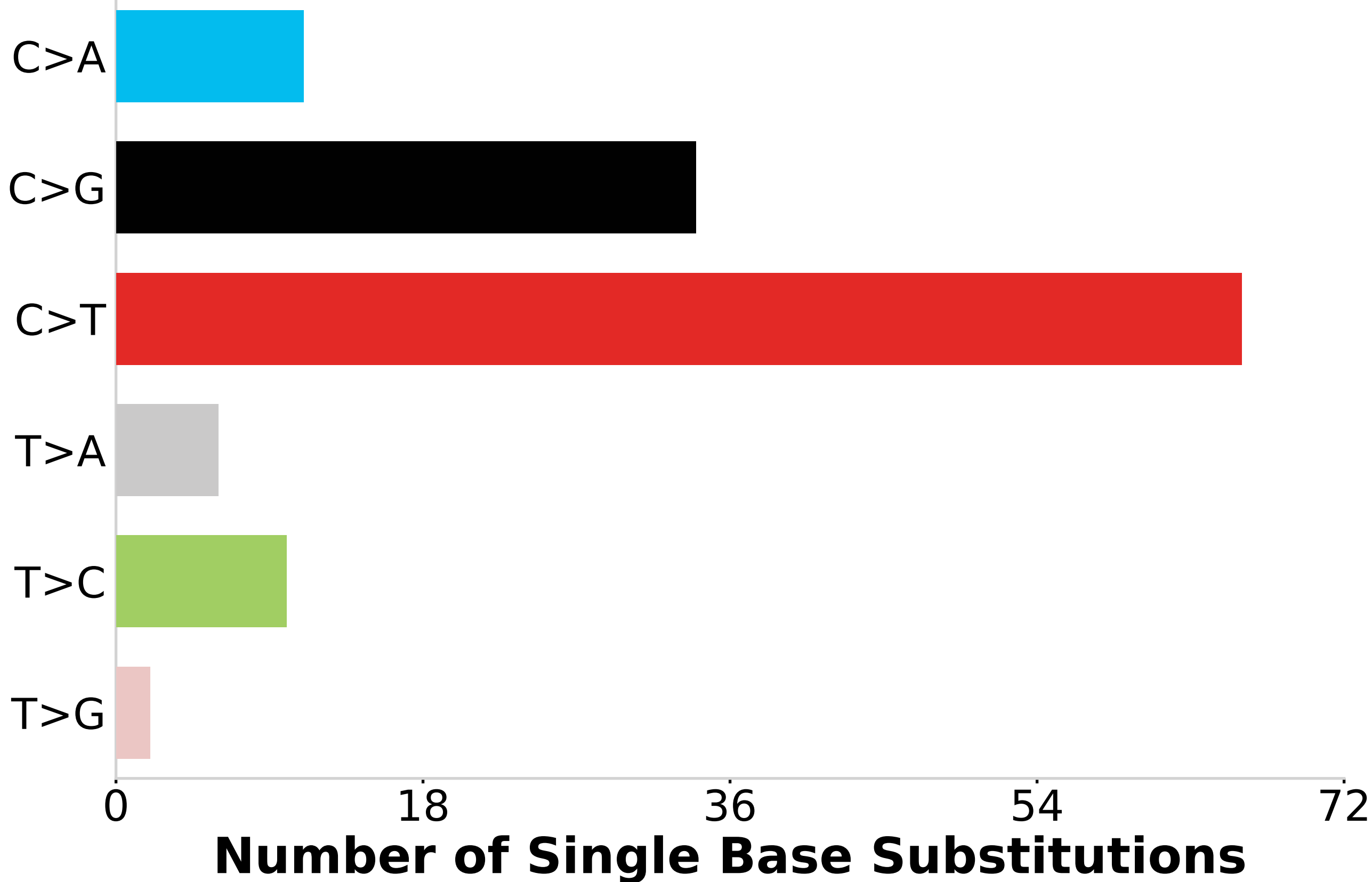
TCGA-DK-A1AE-01A-11D-A13W-08: 105 sub



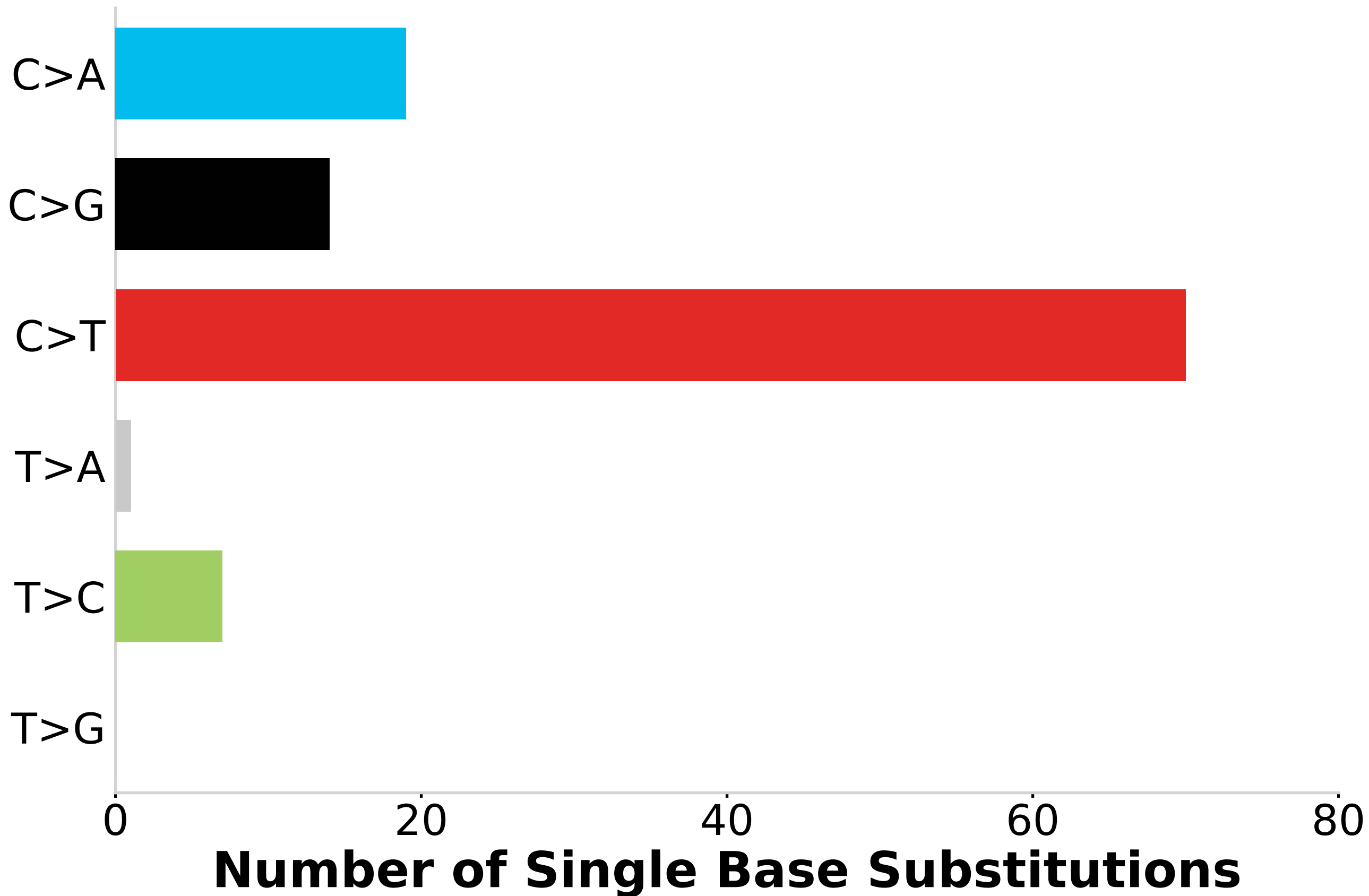
TCGA-DK-A1AF-01A-11D-A13W-08: 85 subs



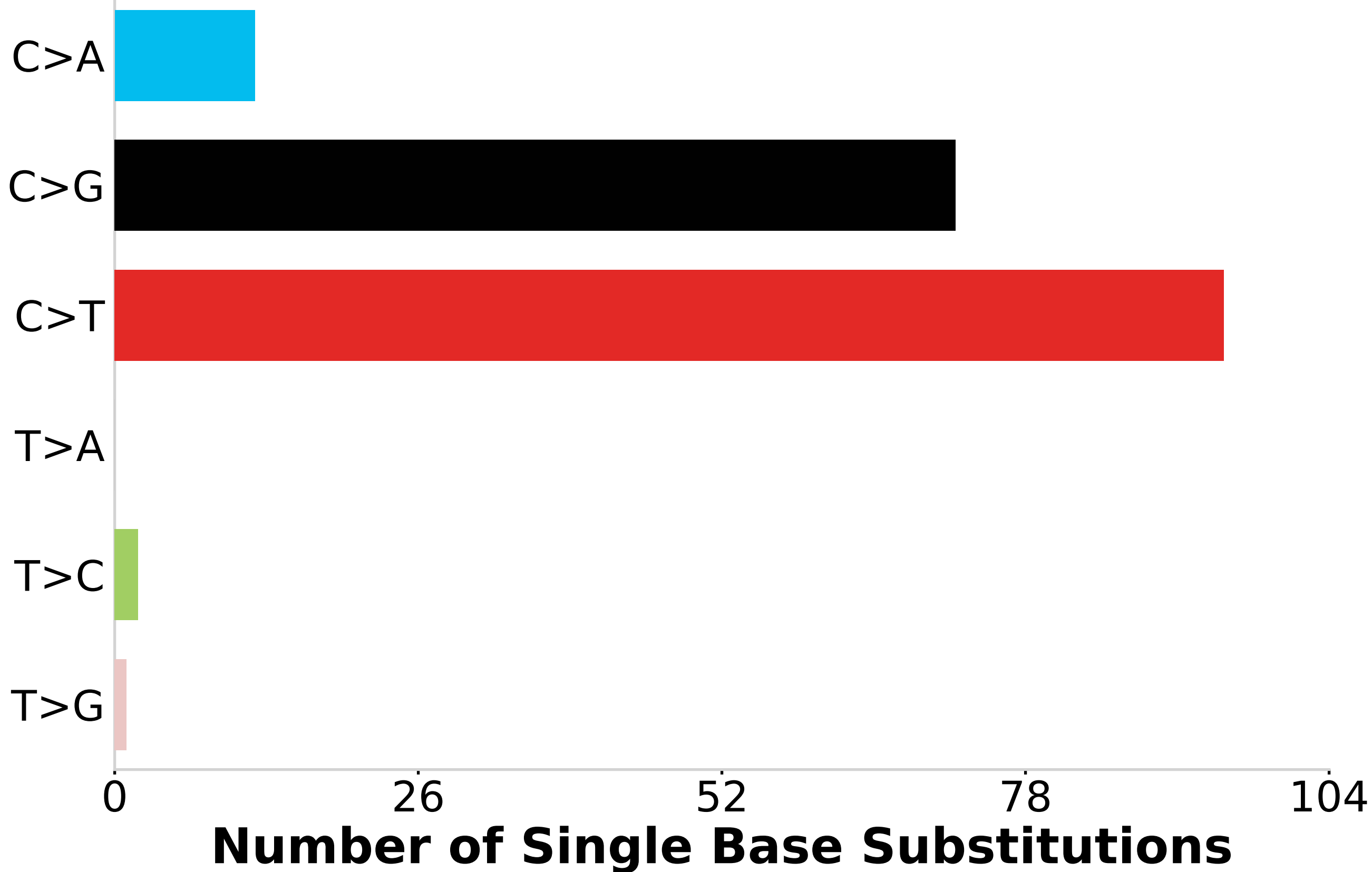
TCGA-DK-A1AG-01A-11D-A13W-08: 129 su



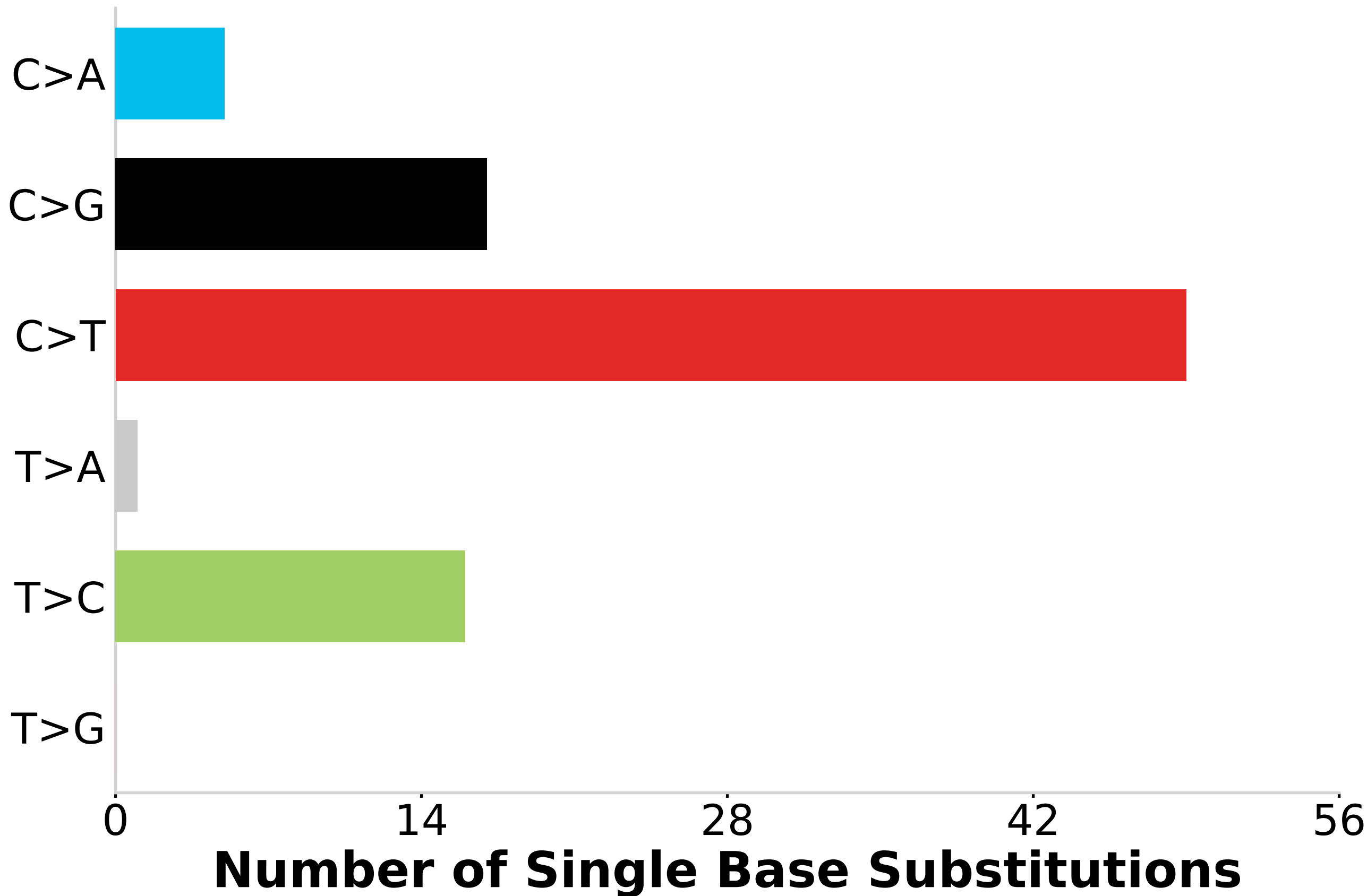
TCGA-DK-A2HX-01A-12D-A18F-08: 111 sub



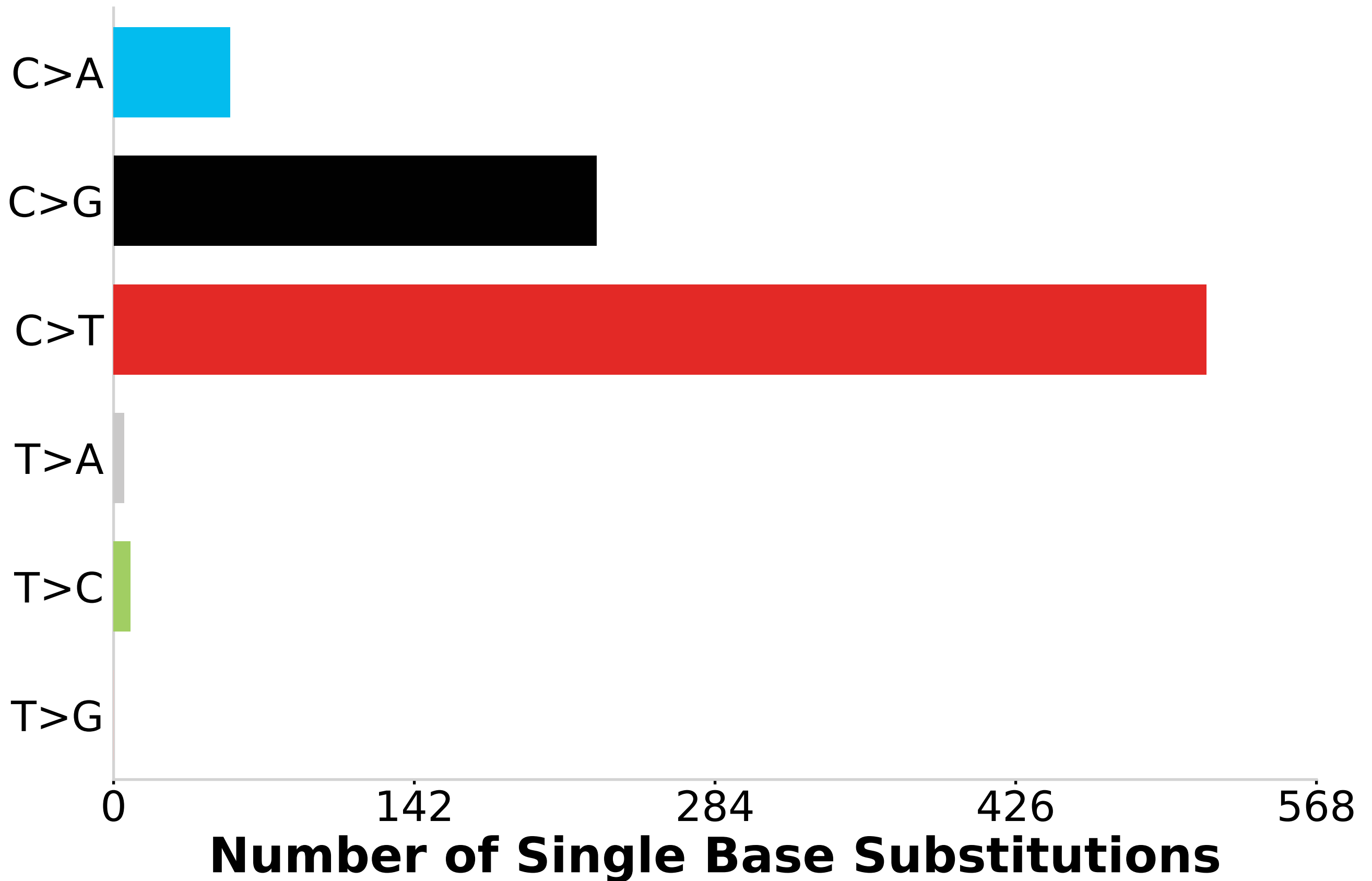
TCGA-DK-A2I1-01A-11D-A17V-08: 182 subs



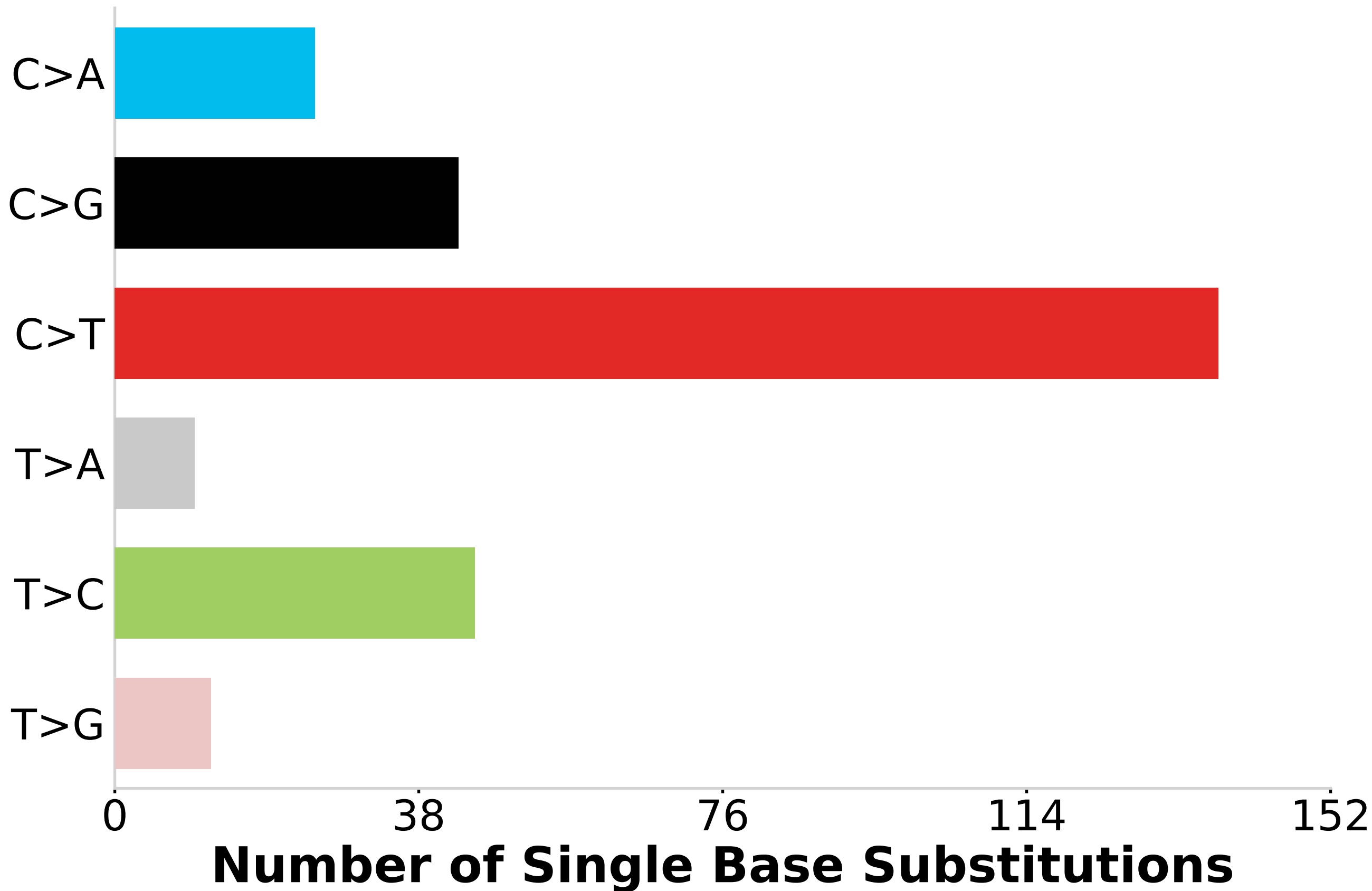
TCGA-DK-A2I2-01A-11D-A17V-08: 88 subs



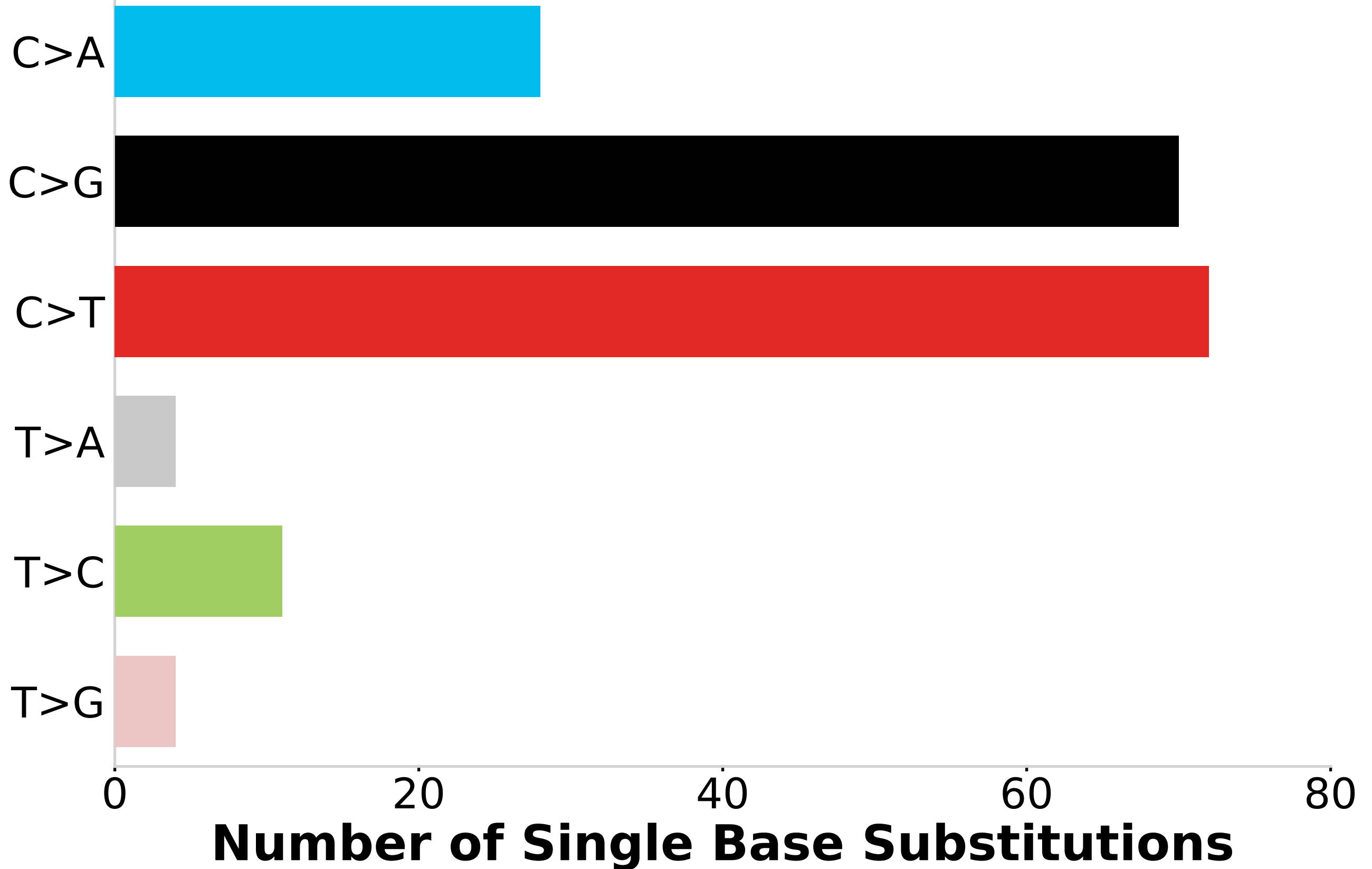
TCGA-DK-A2I4-01A-11D-A21A-08: 812 subs



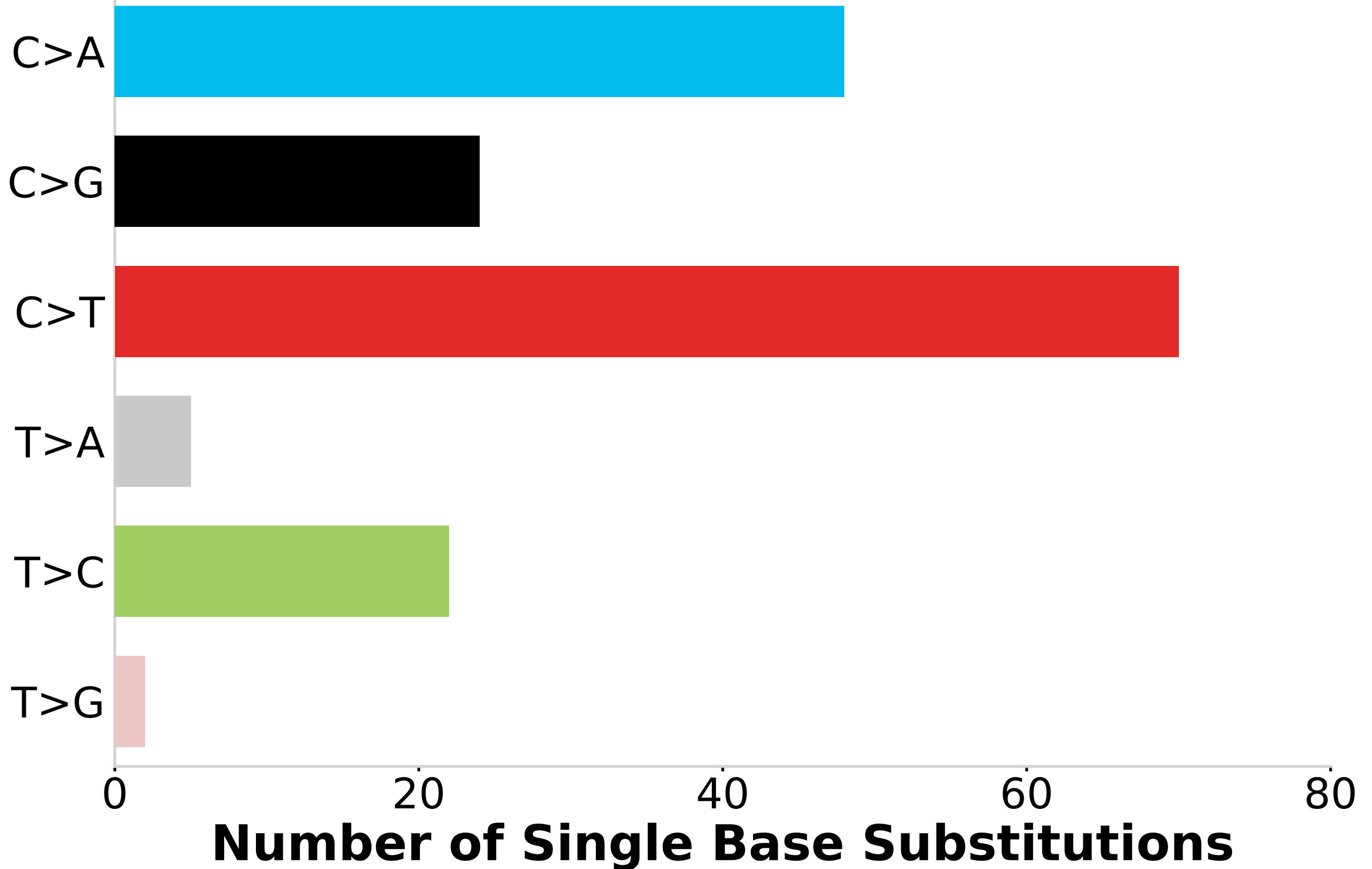
TCGA-DK-A2I6-01A-12D-A18F-08: 273 subs



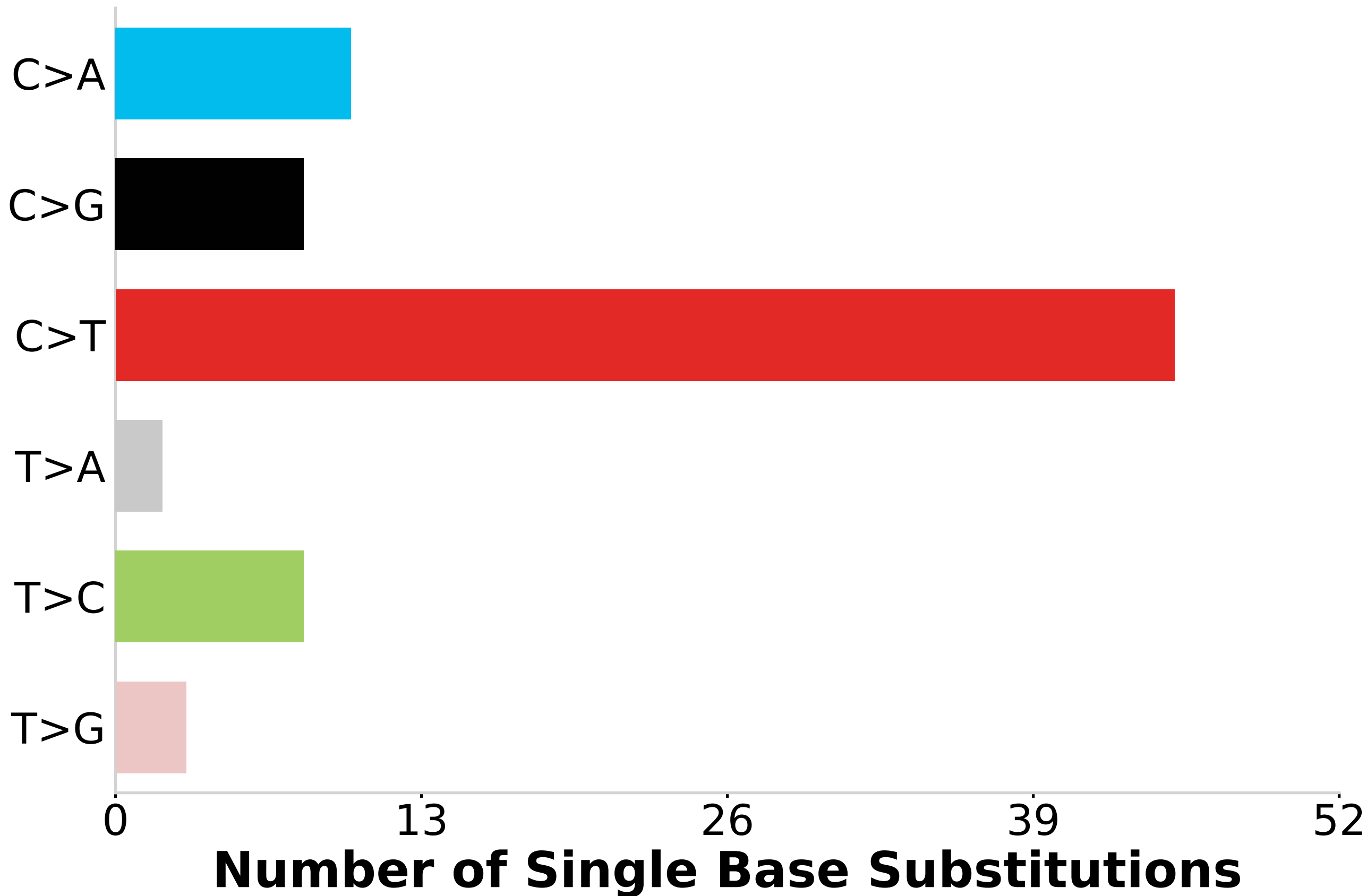
TCGA-DK-A3IK-01A-32D-A21A-08: 189 subs



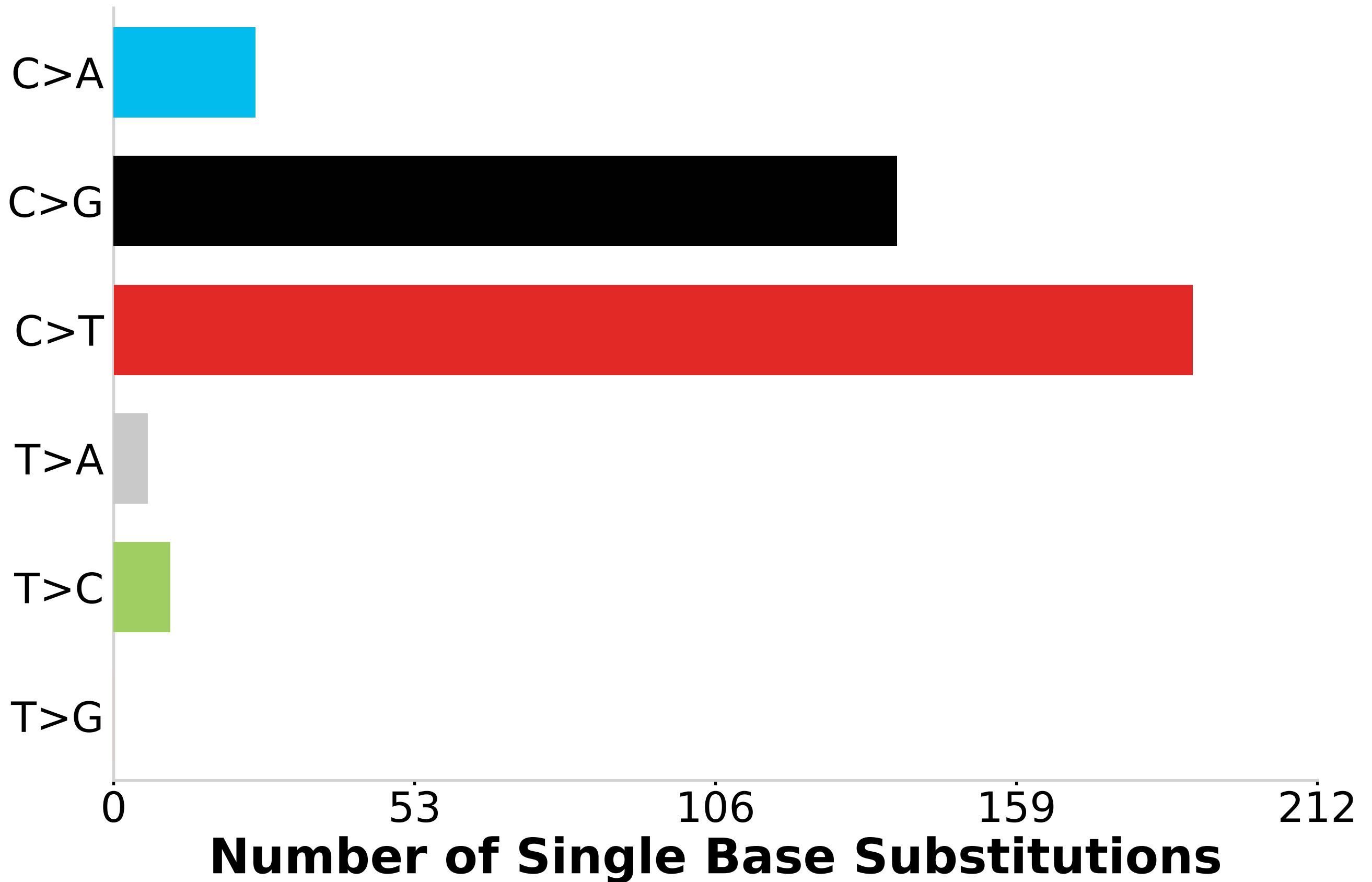
TCGA-DK-A3IL-01A-11D-A20D-08: 171 subs



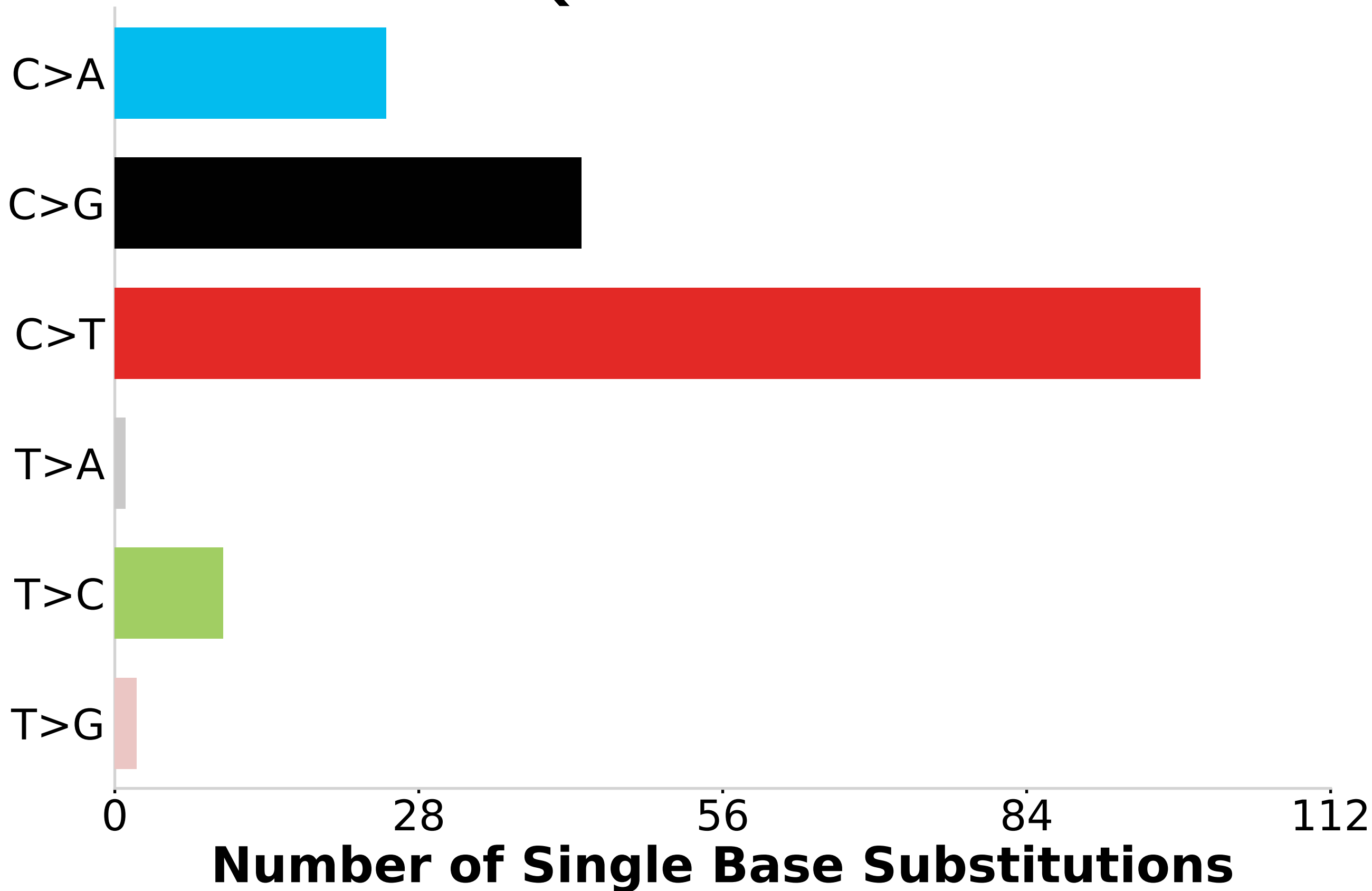
TCGA-DK-A3IM-01A-11D-A20D-08: 76 subs



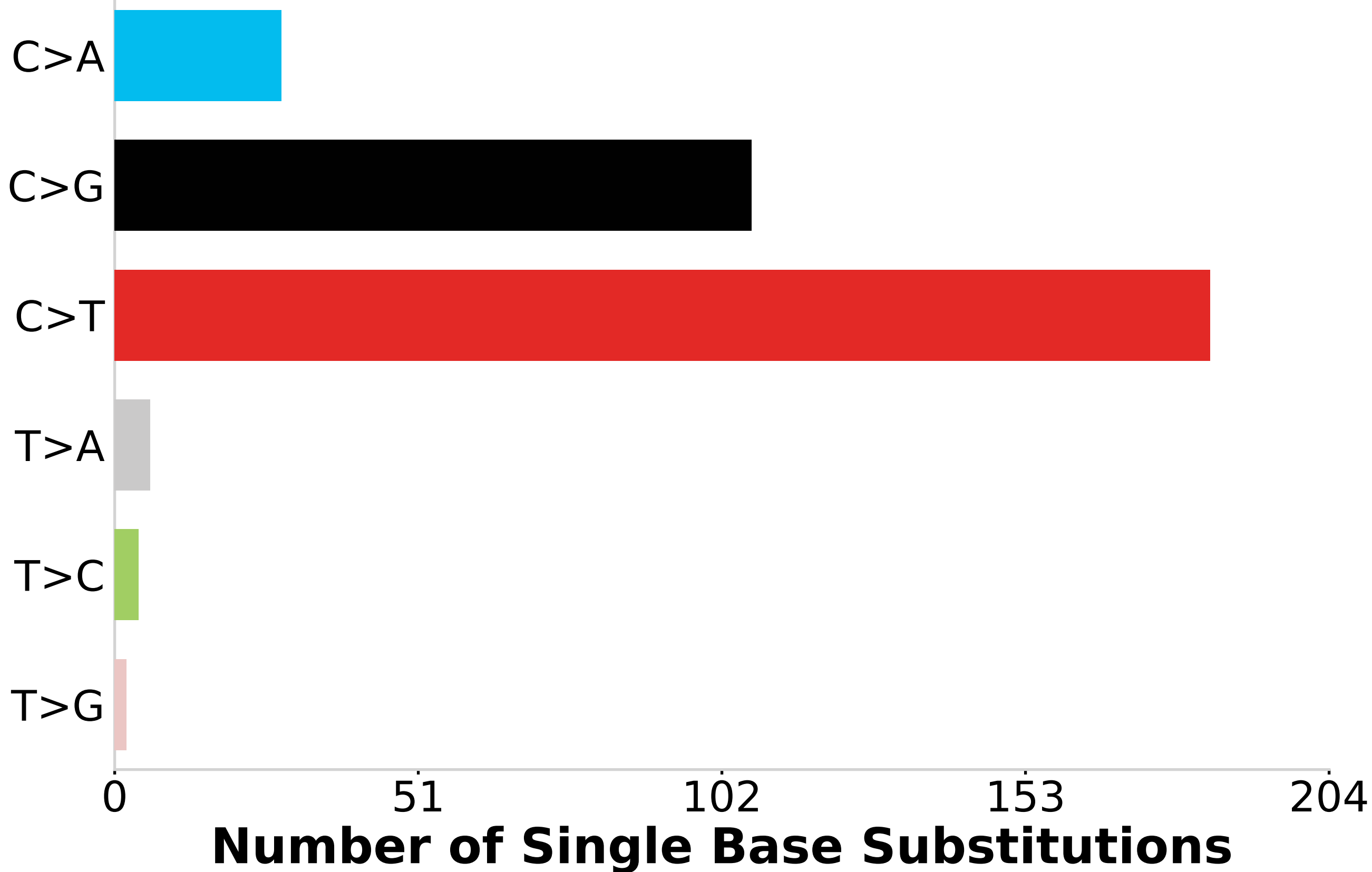
TCGA-DK-A3IN-01A-11D-A20D-08: 369 sub



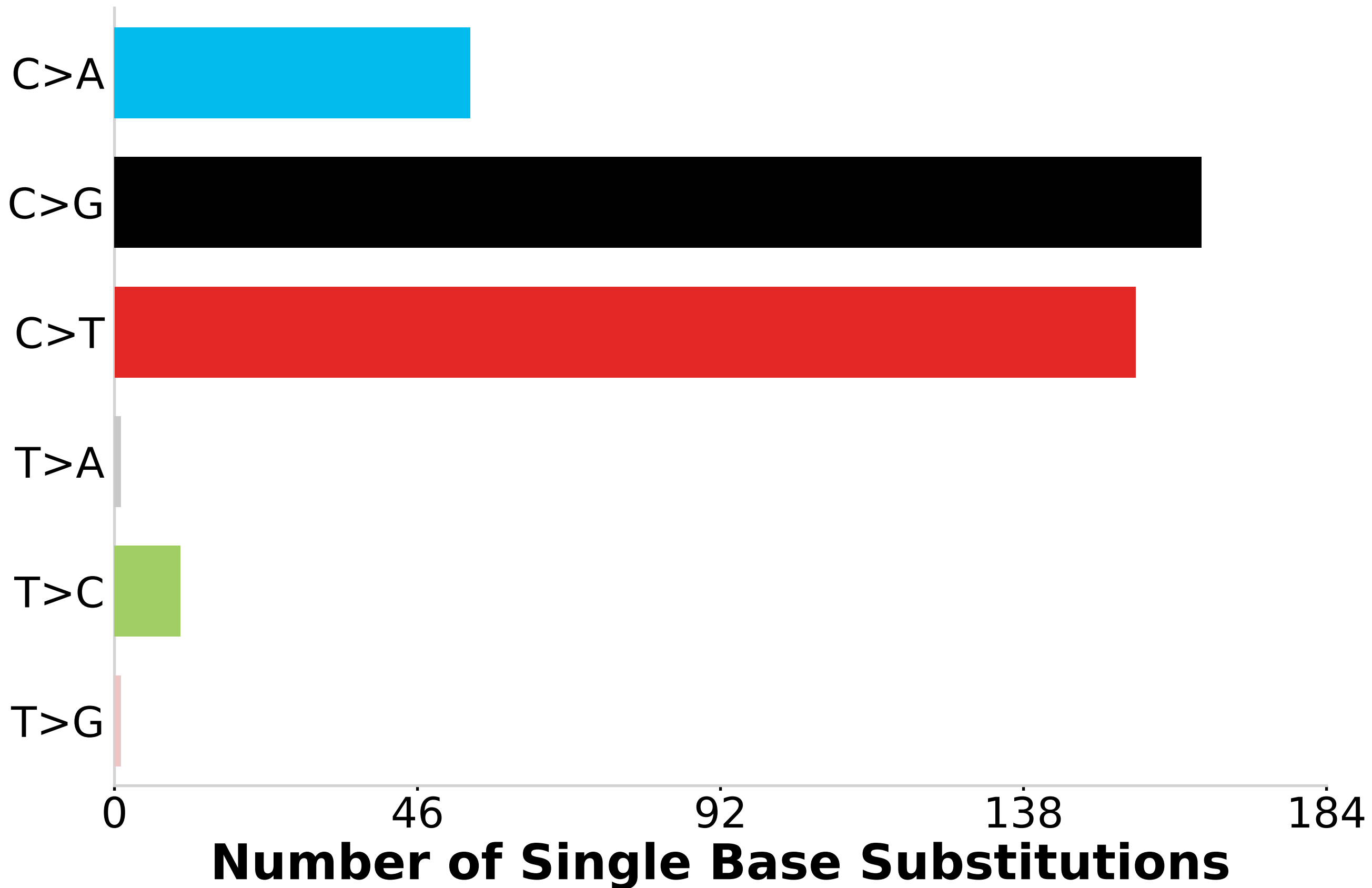
TCGA-DK-A3IQ-01A-31D-A20D-08: 181 sub



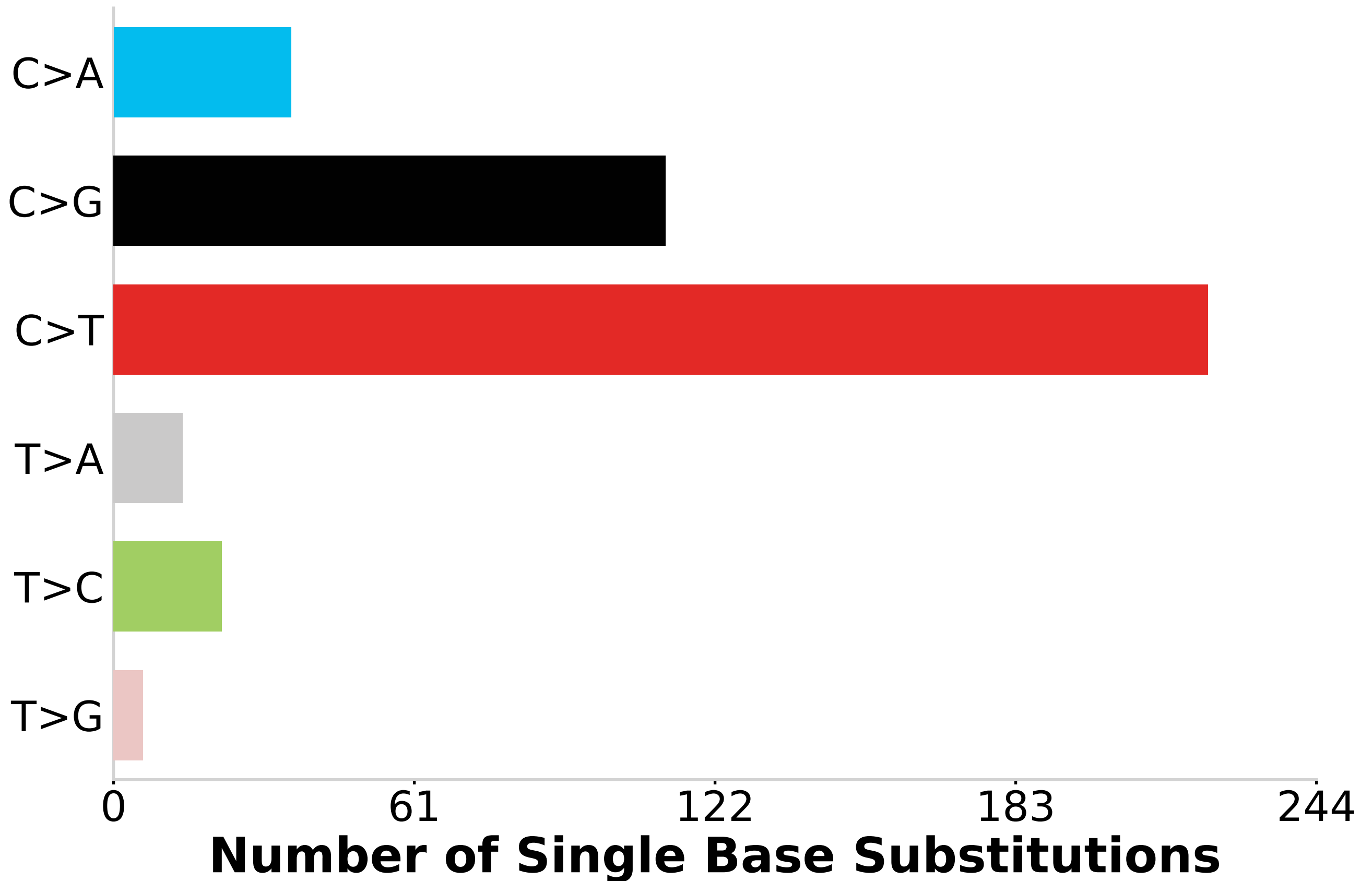
TCGA-DK-A3IS-01A-21D-A21A-08: 331 subs



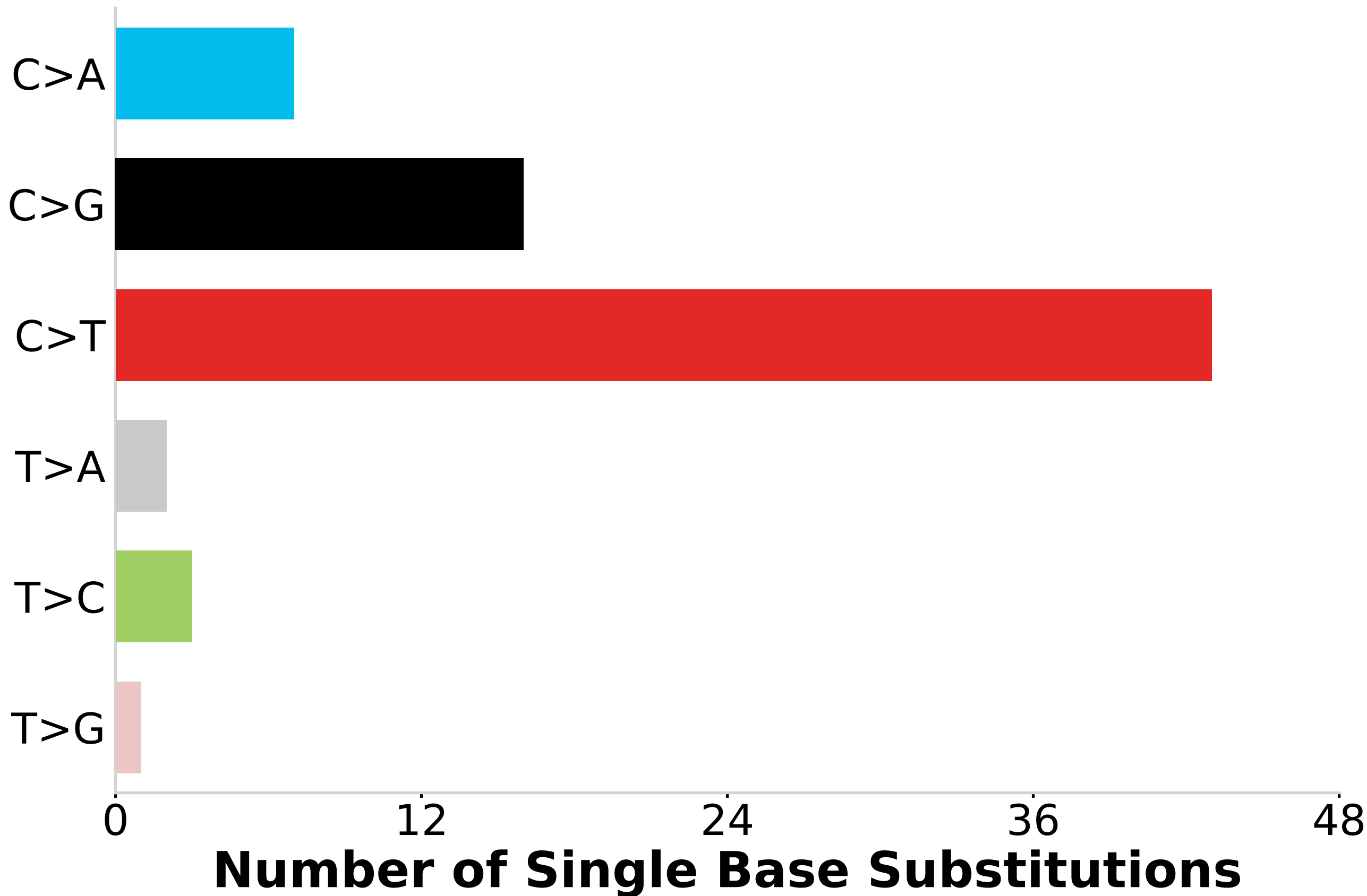
TCGA-DK-A3IT-01A-31D-A20D-08: 386 subs



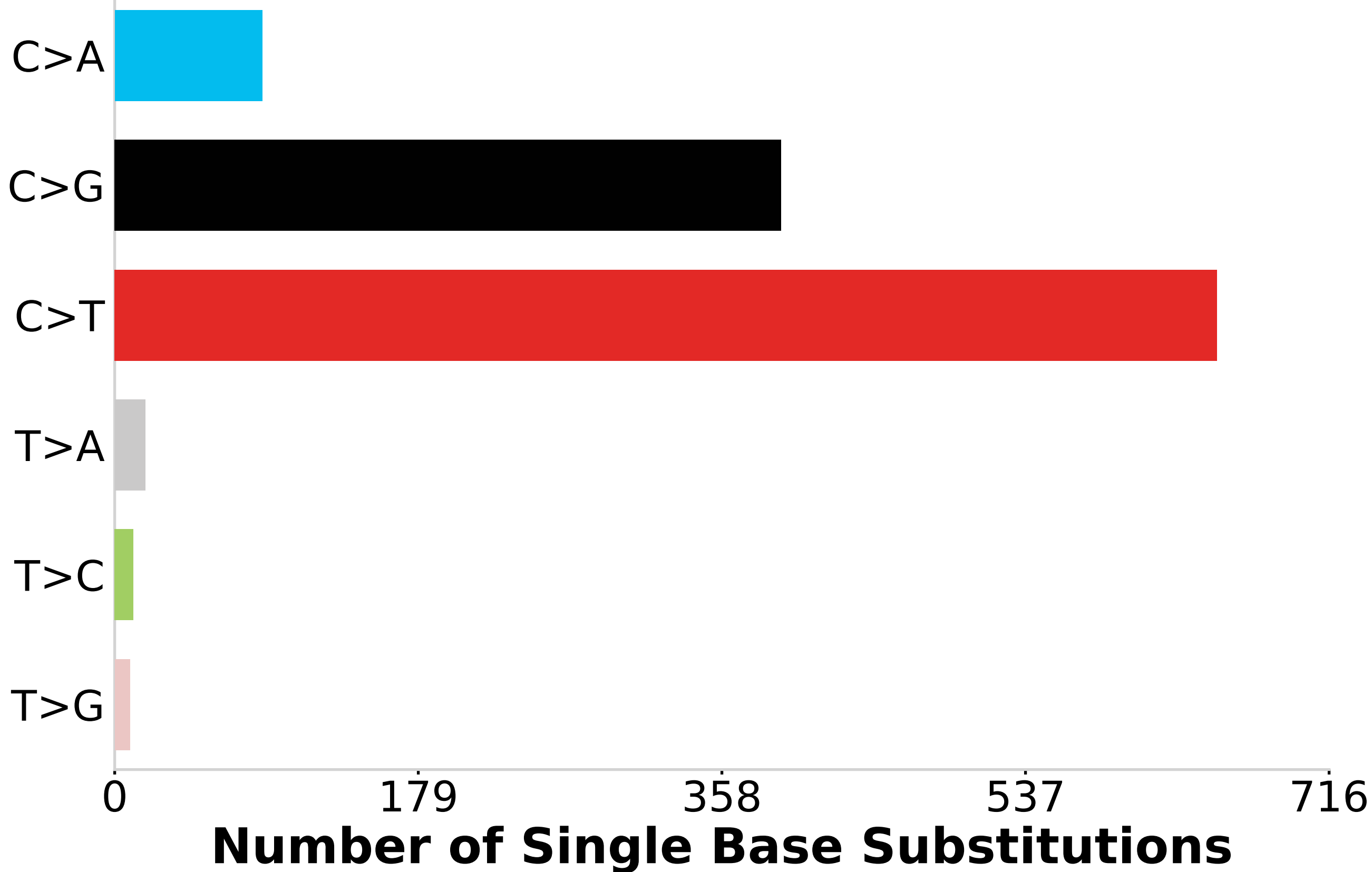
TCGA-DK-A3IU-01A-11D-A20D-08: 412 sub



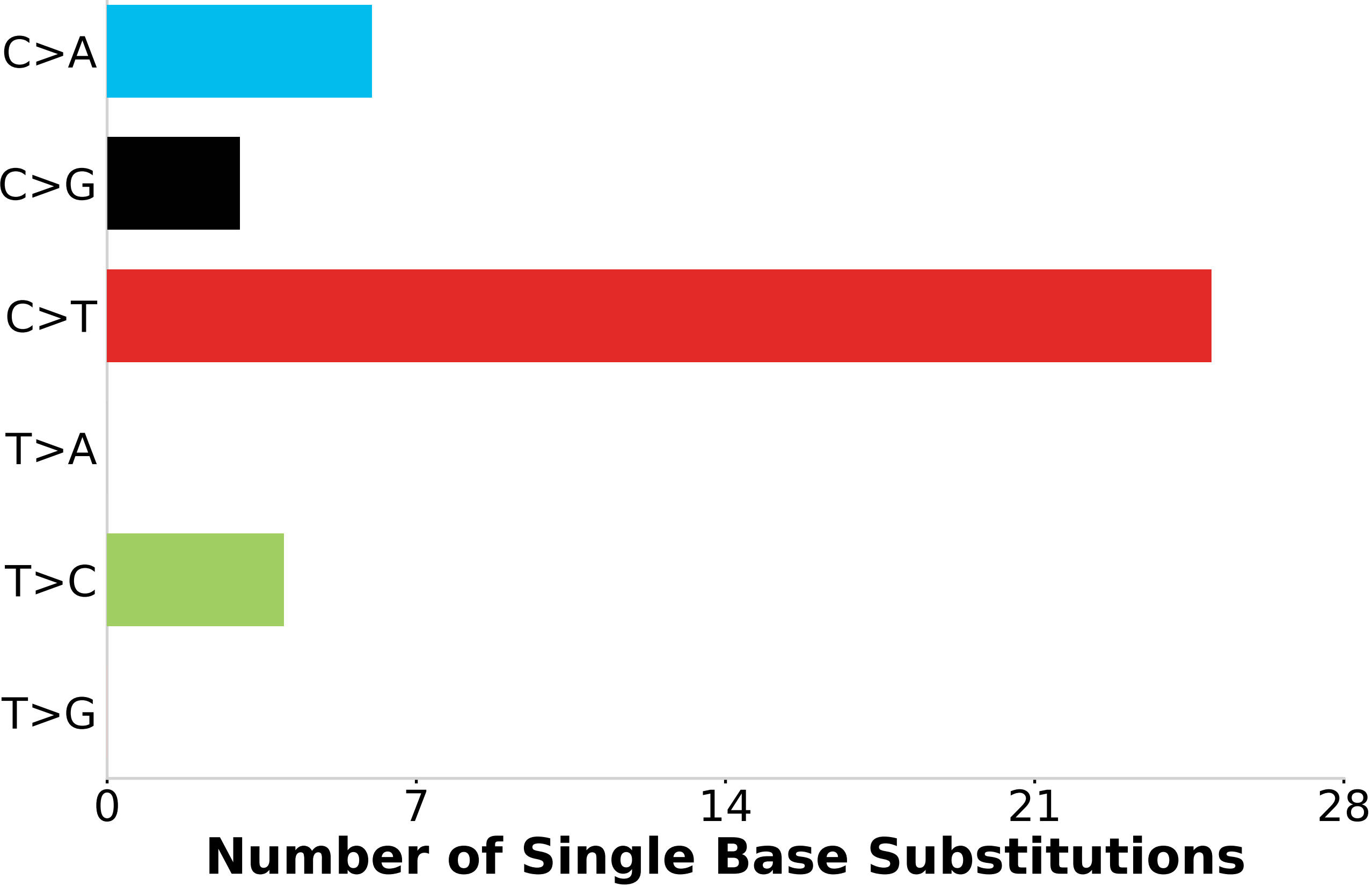
TCGA-DK-A3IV-01A-22D-A21A-08: 72 subs



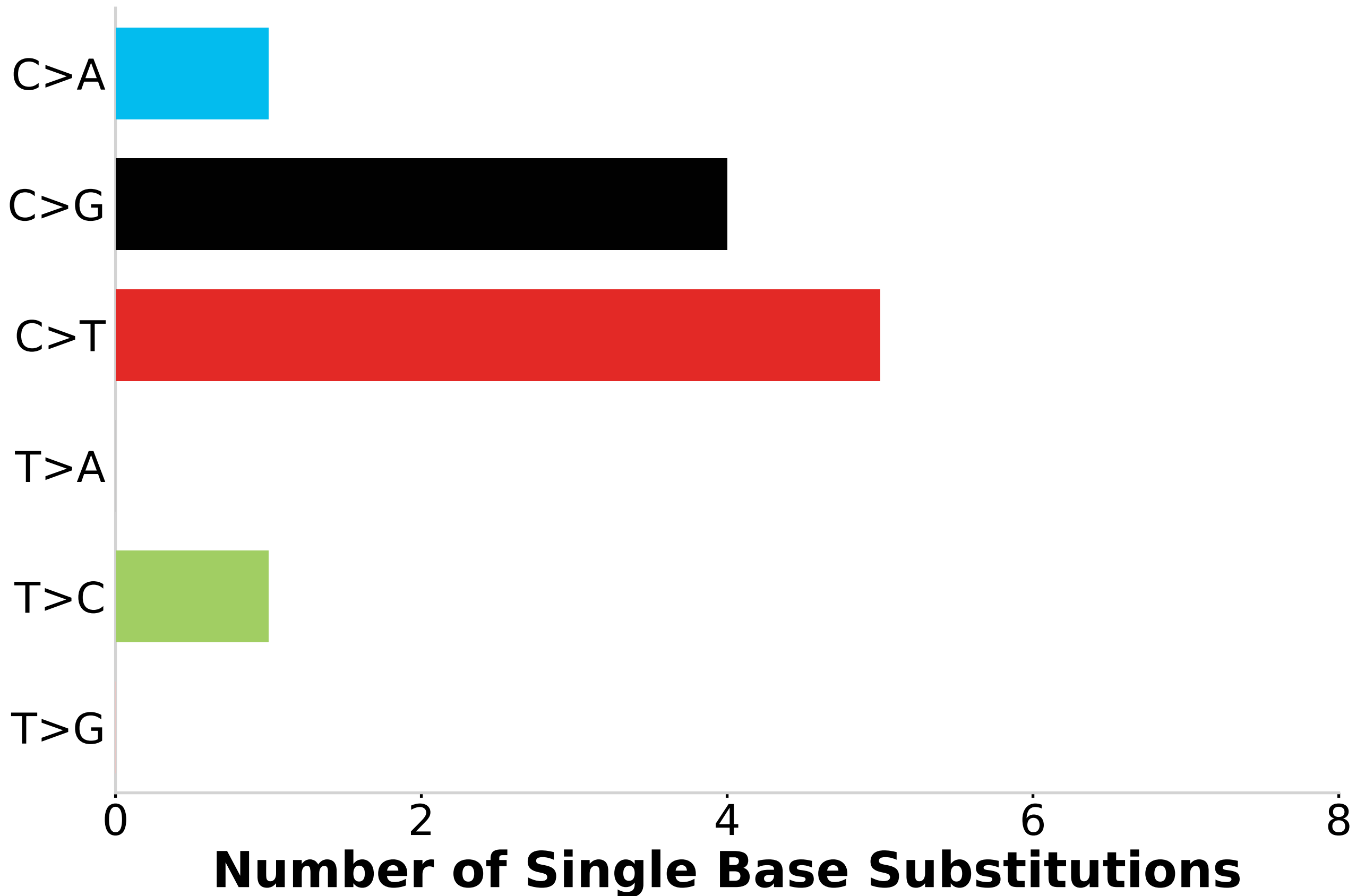
TCGA-DK-A3WW-01A-22D-A23M-08: 1,168



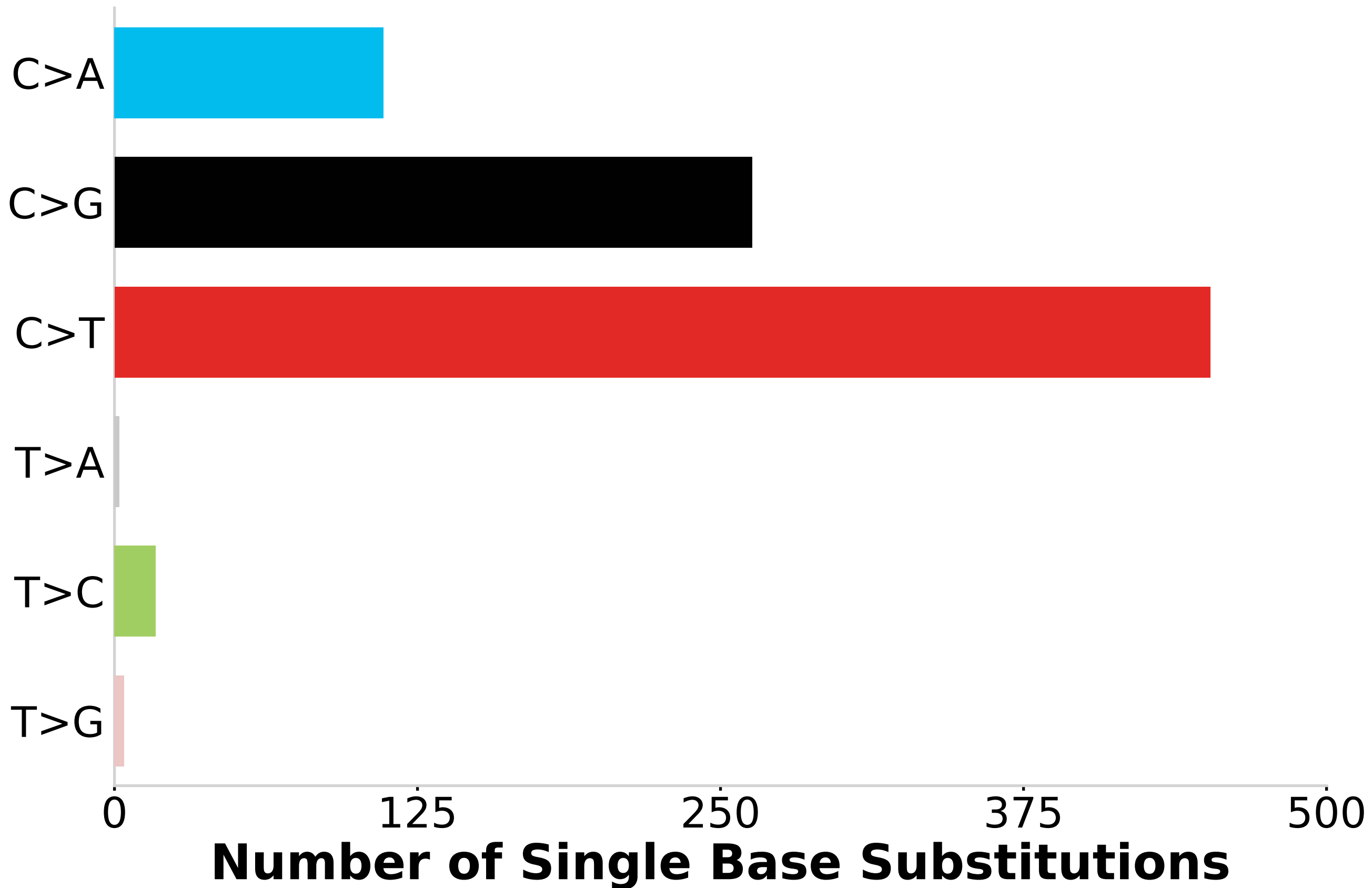
TCGA-DK-A3WX-01A-22D-A22Z-08: 38 subs



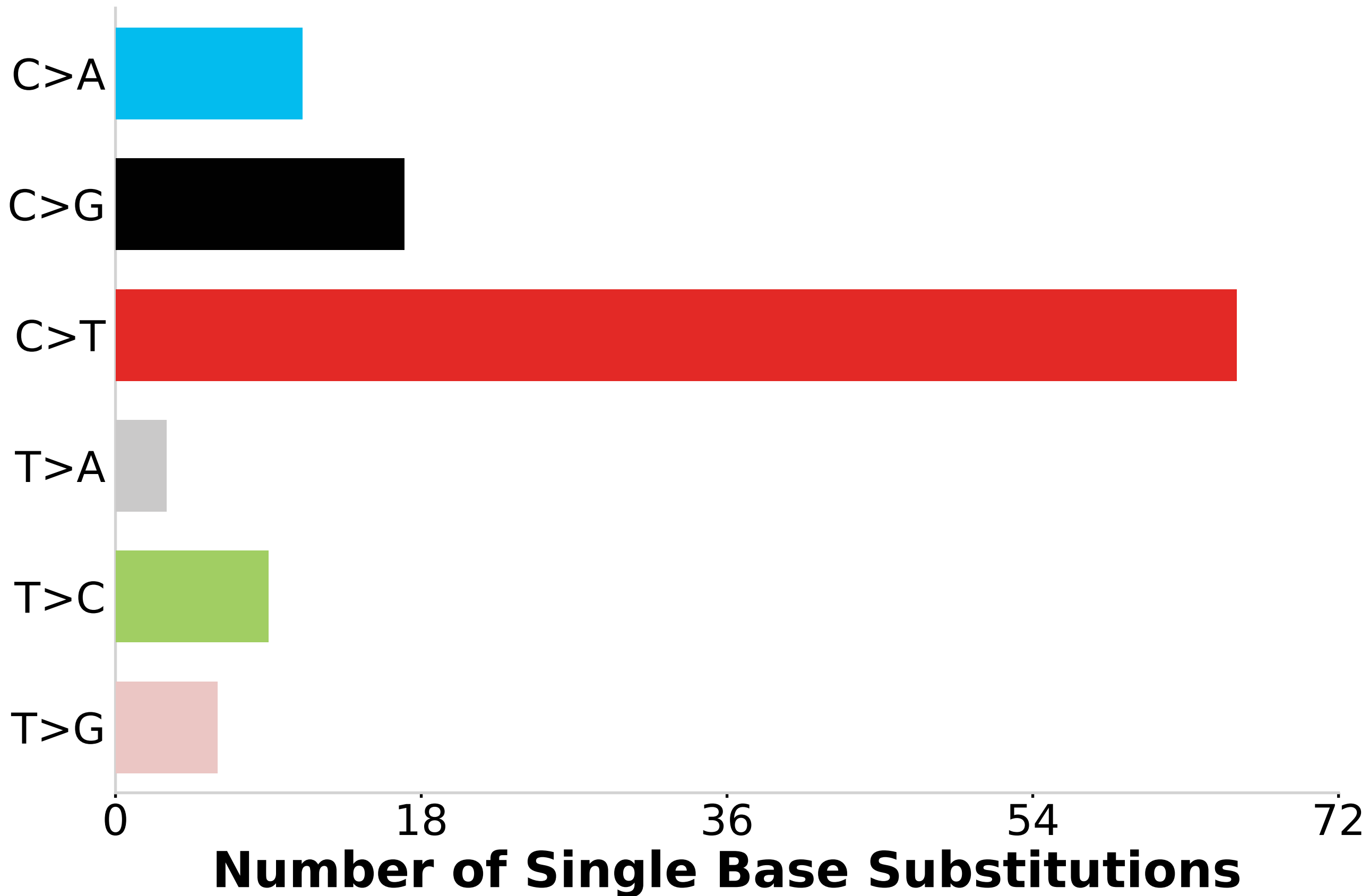
TCGA-DK-A3WY-01A-11D-A22Z-08: 11 subs



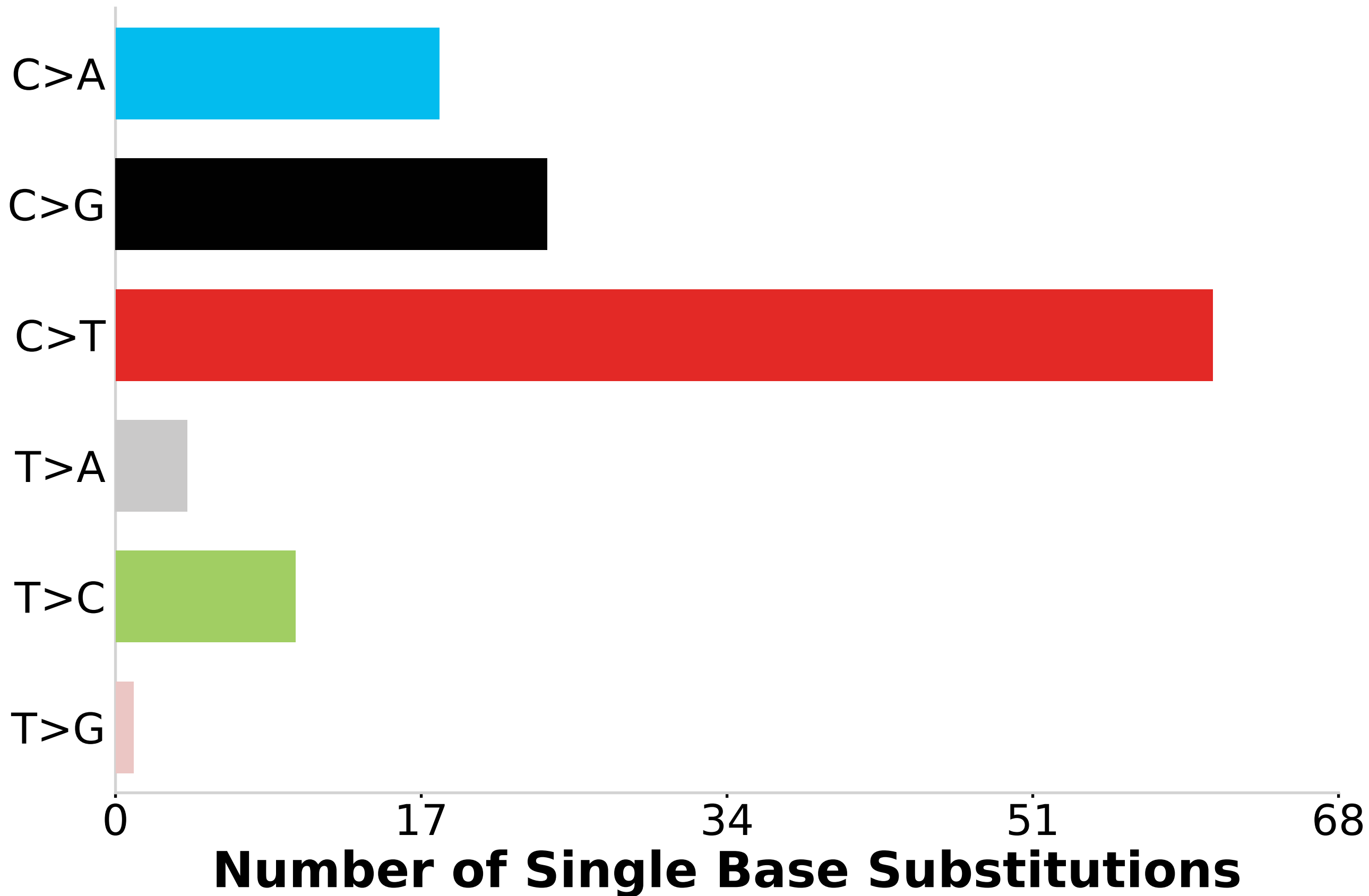
TCGA-DK-A3X1-01A-12D-A22Z-08: 849 sub



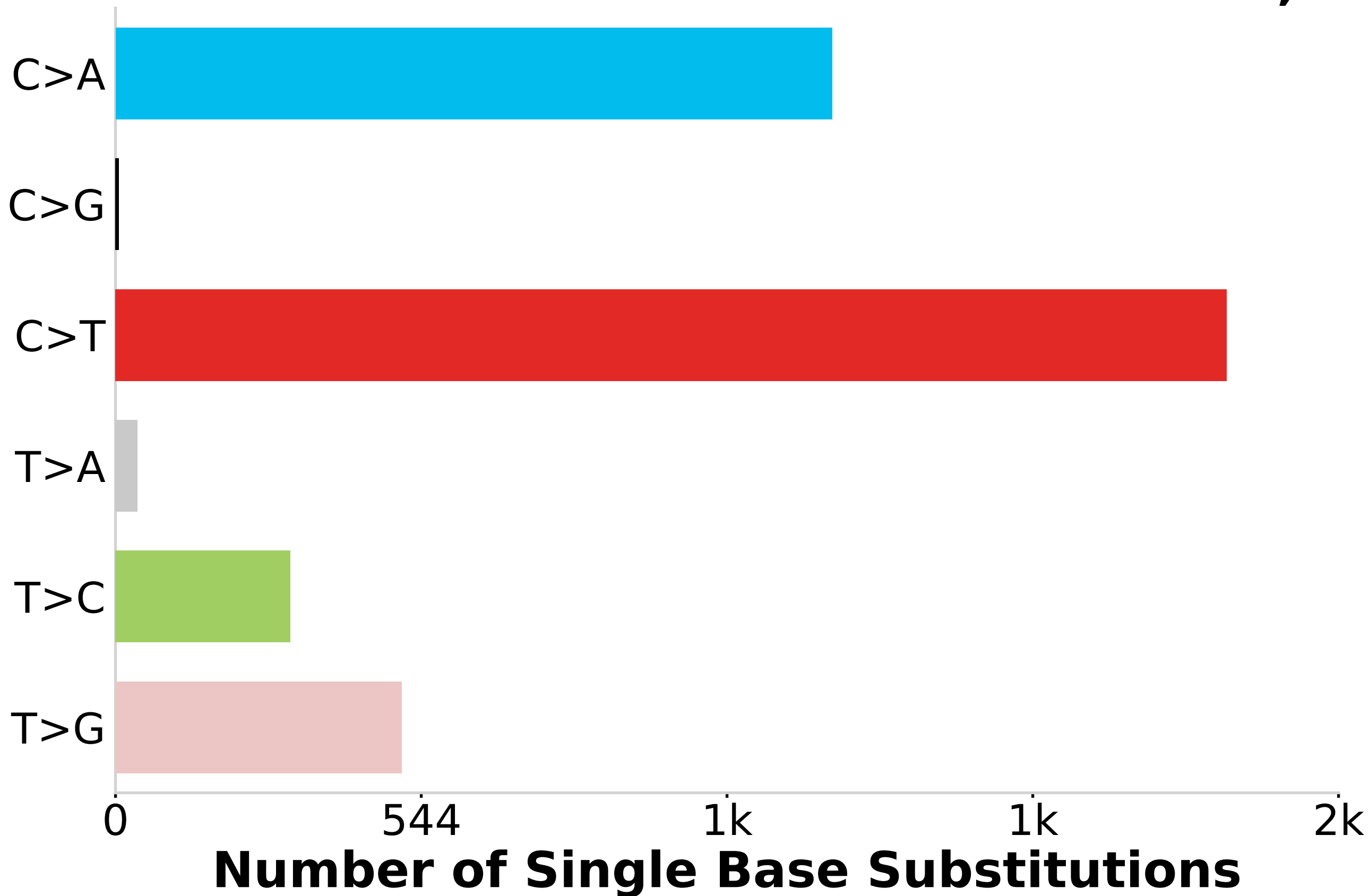
TCGA-DK-A3X2-01A-11D-A22Z-08: 112 sub



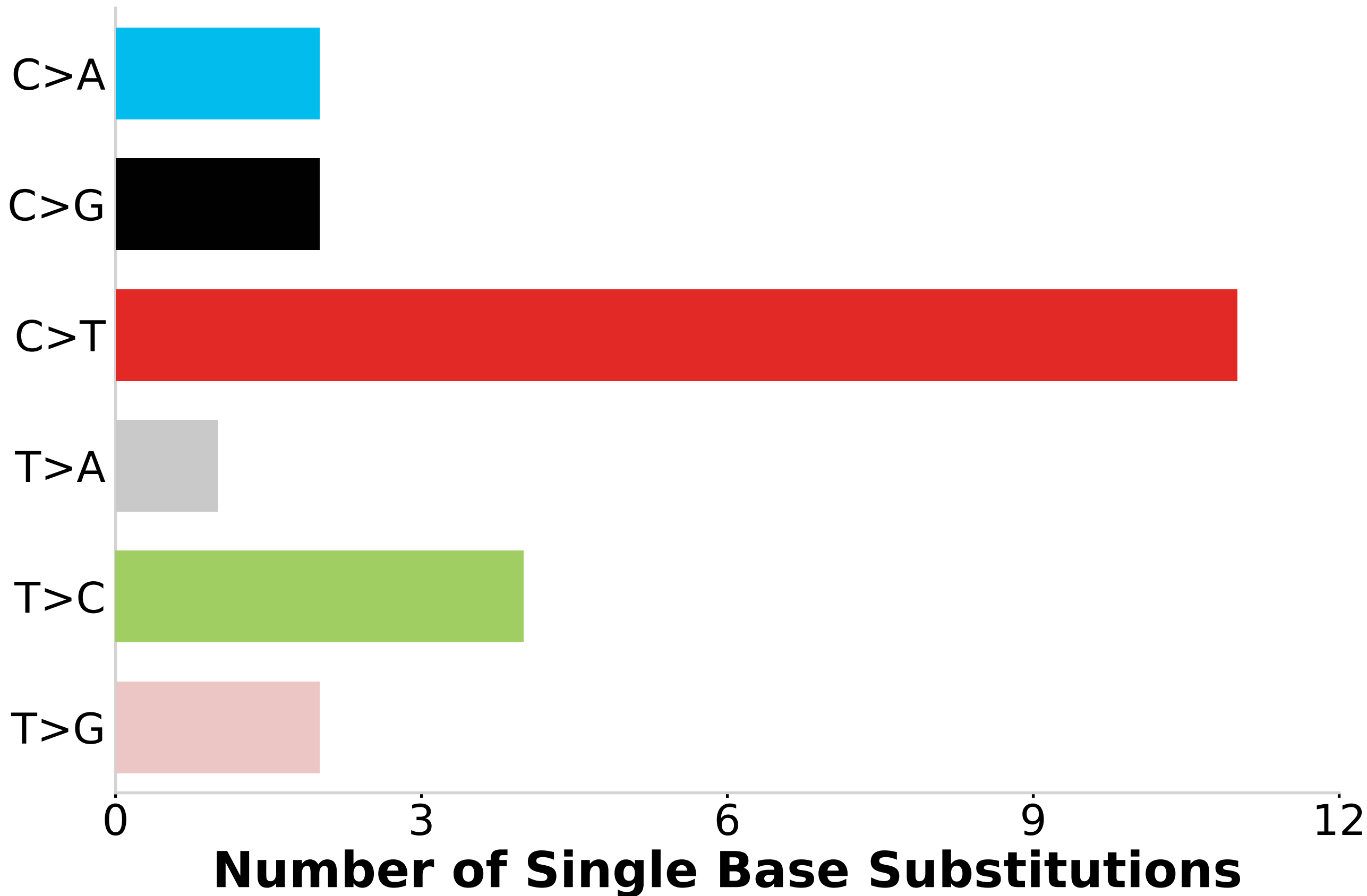
TCGA-DK-A6AV-01A-12D-A30E-08: 118 sub



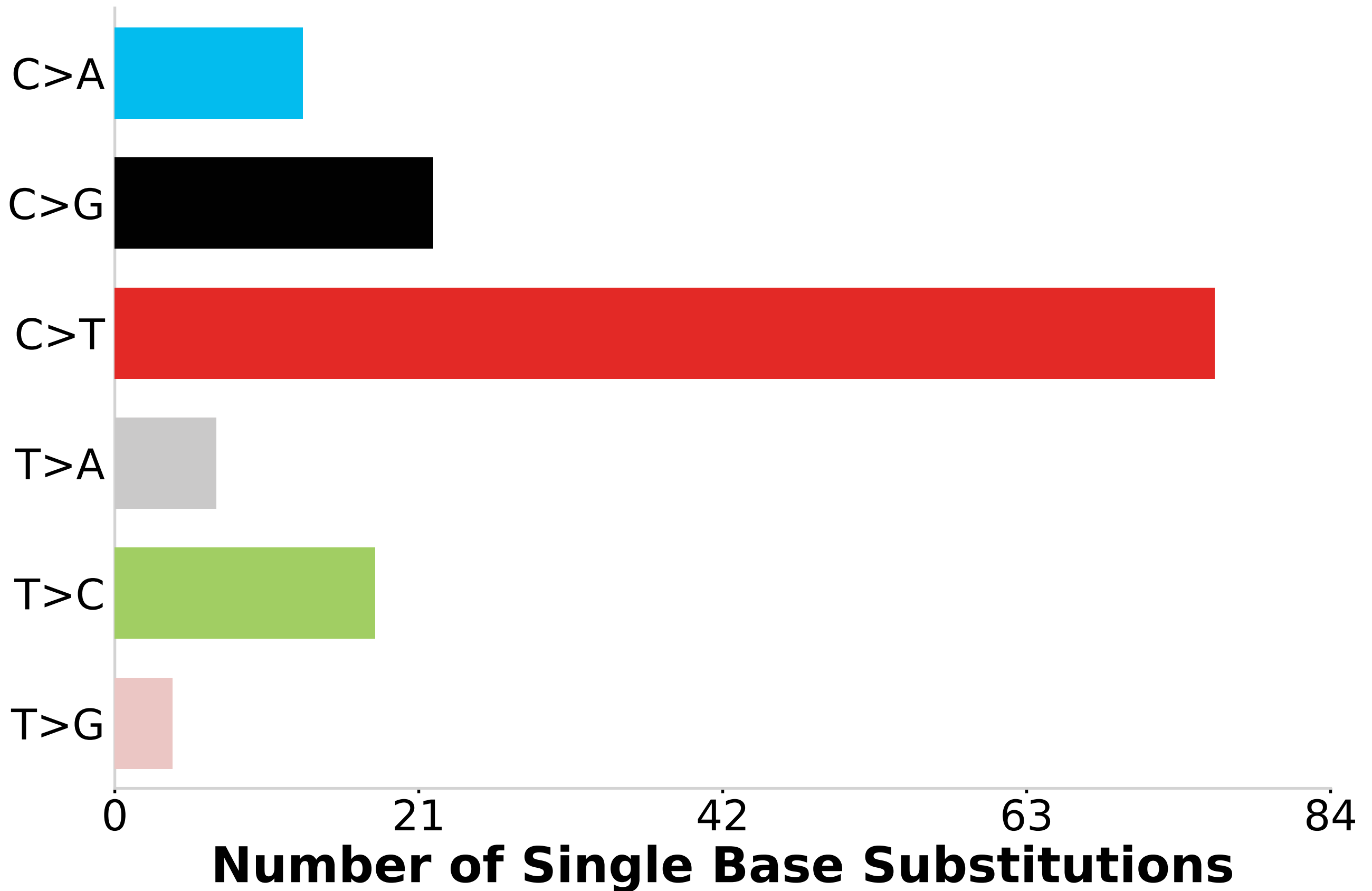
TCGA-DK-A6AW-01A-11D-A30E-08: 4,117 s



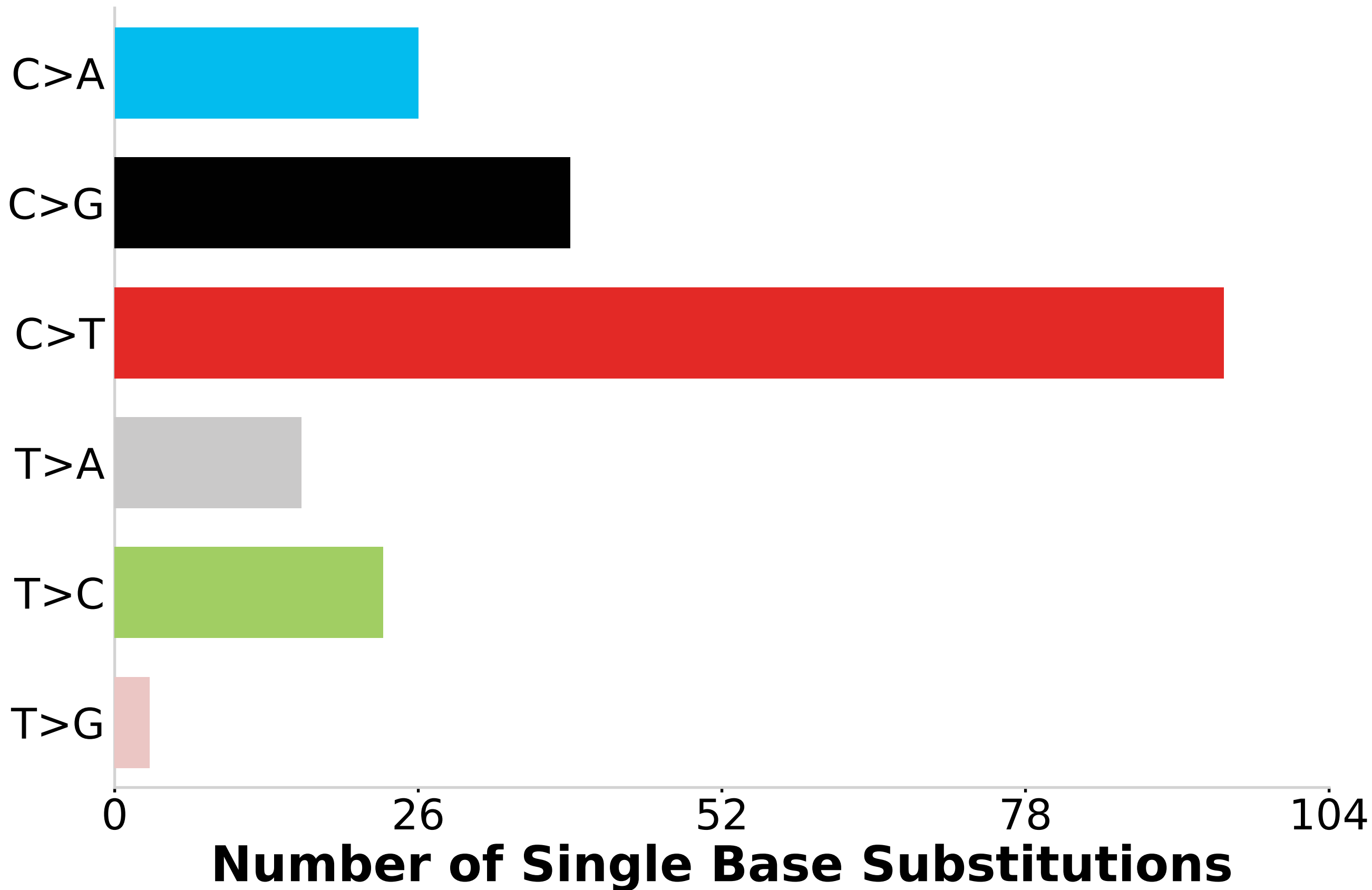
TCGA-DK-A6B0-01A-11D-A31L-08: 22 subs



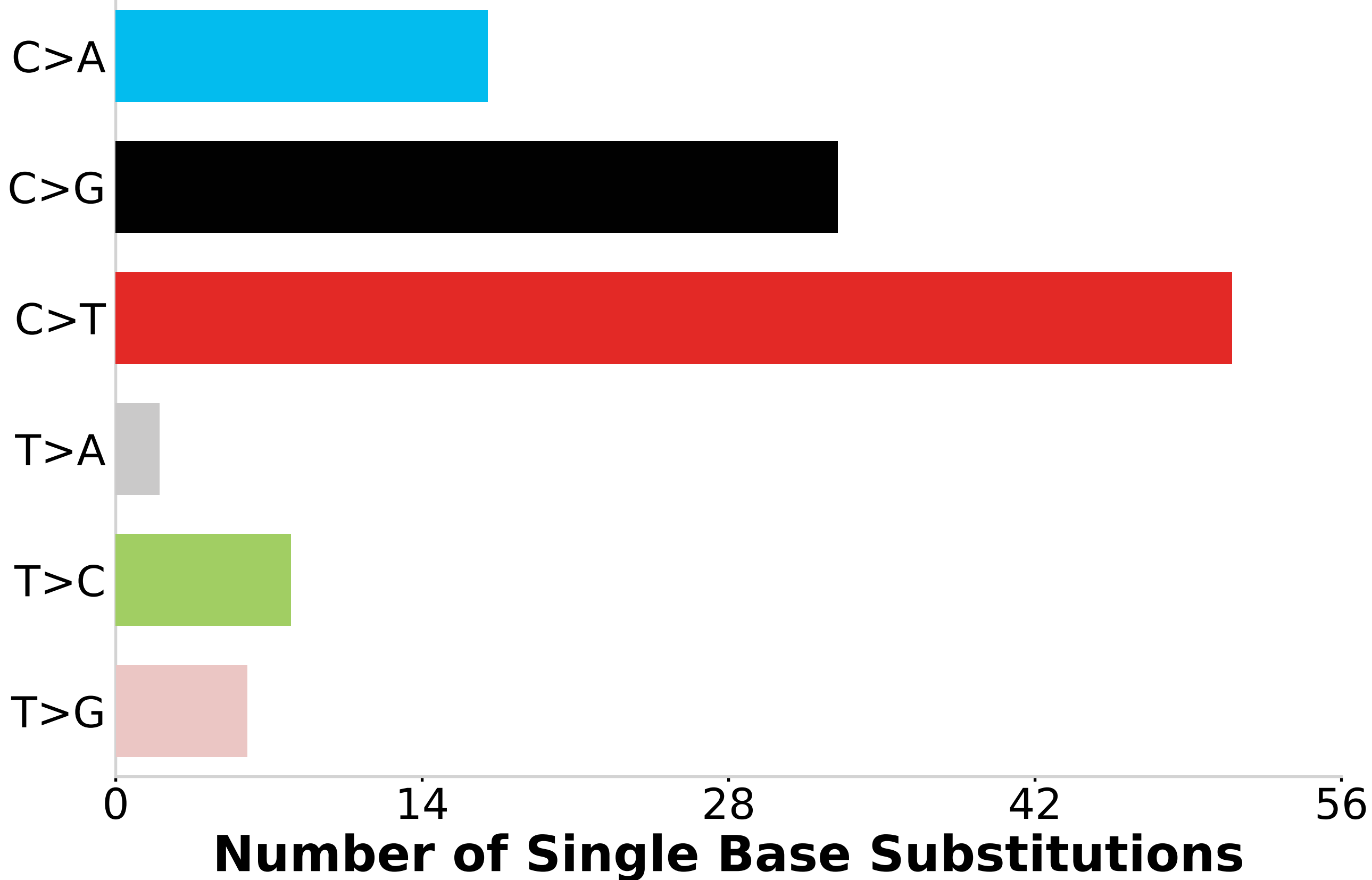
TCGA-DK-A6B1-01A-12D-A30E-08: 140 sub



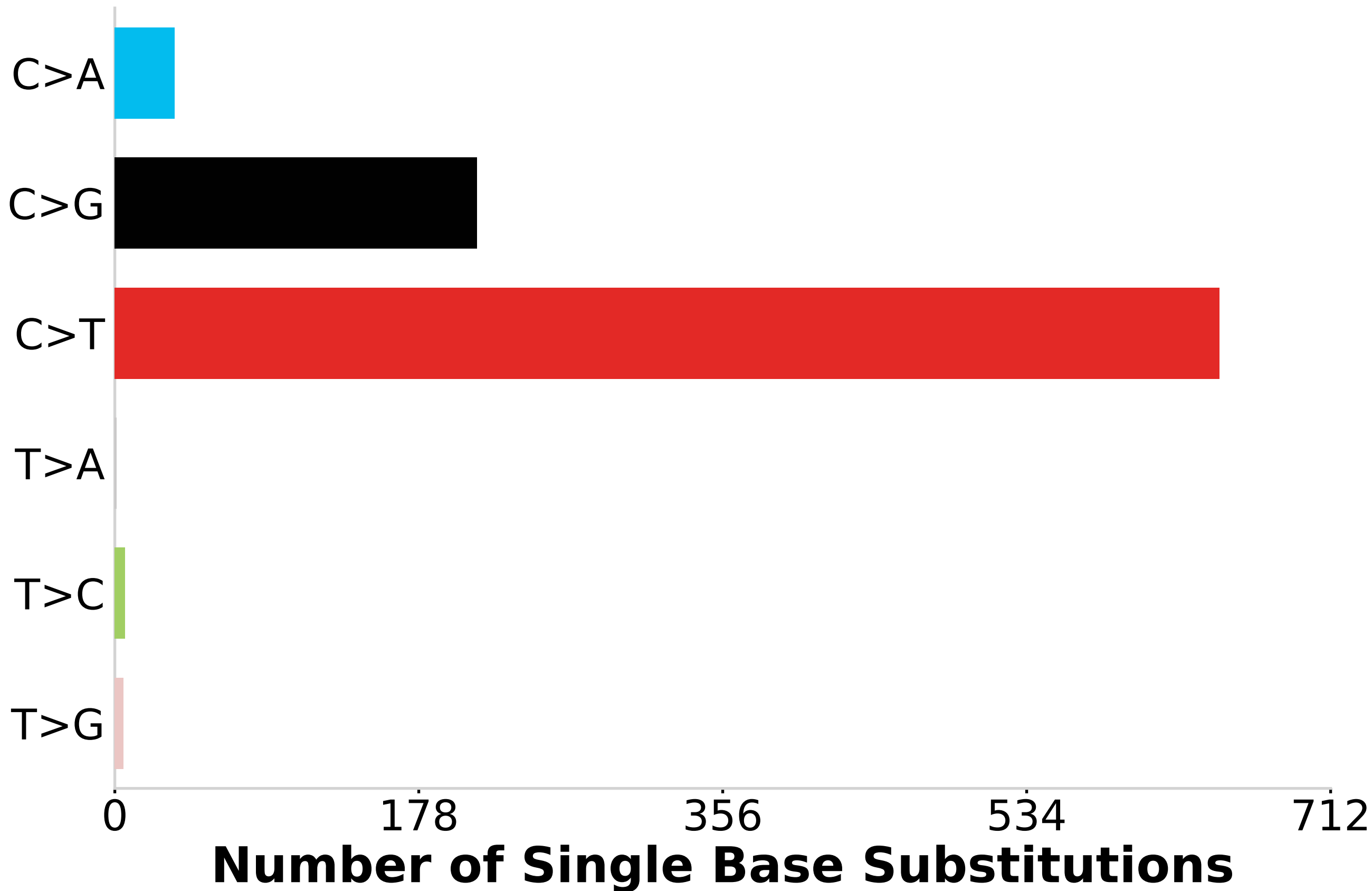
TCGA-DK-A6B2-01A-11D-A30E-08: 202 sub



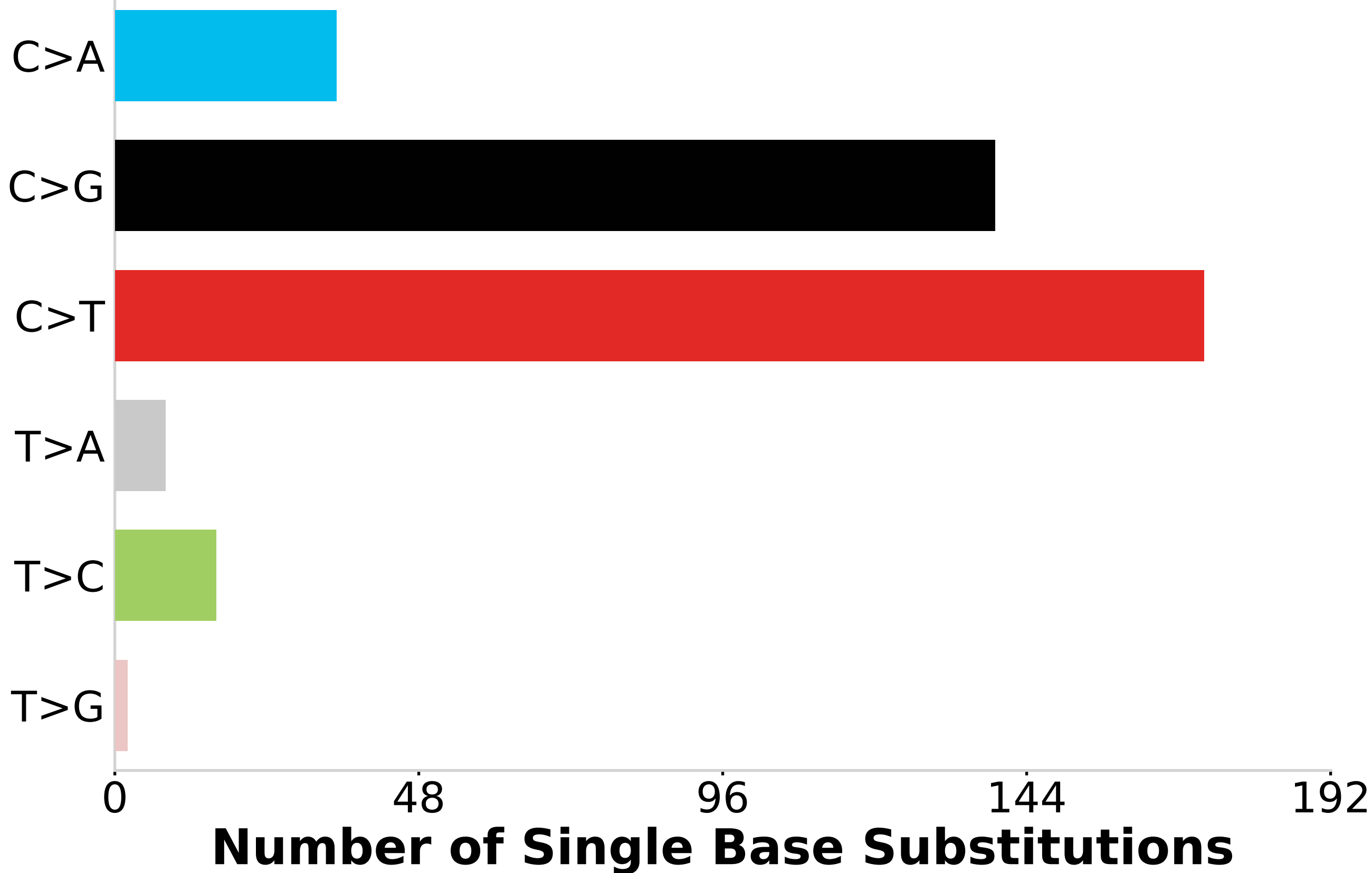
TCGA-DK-A6B5-01A-11D-A31L-08: 117 sub



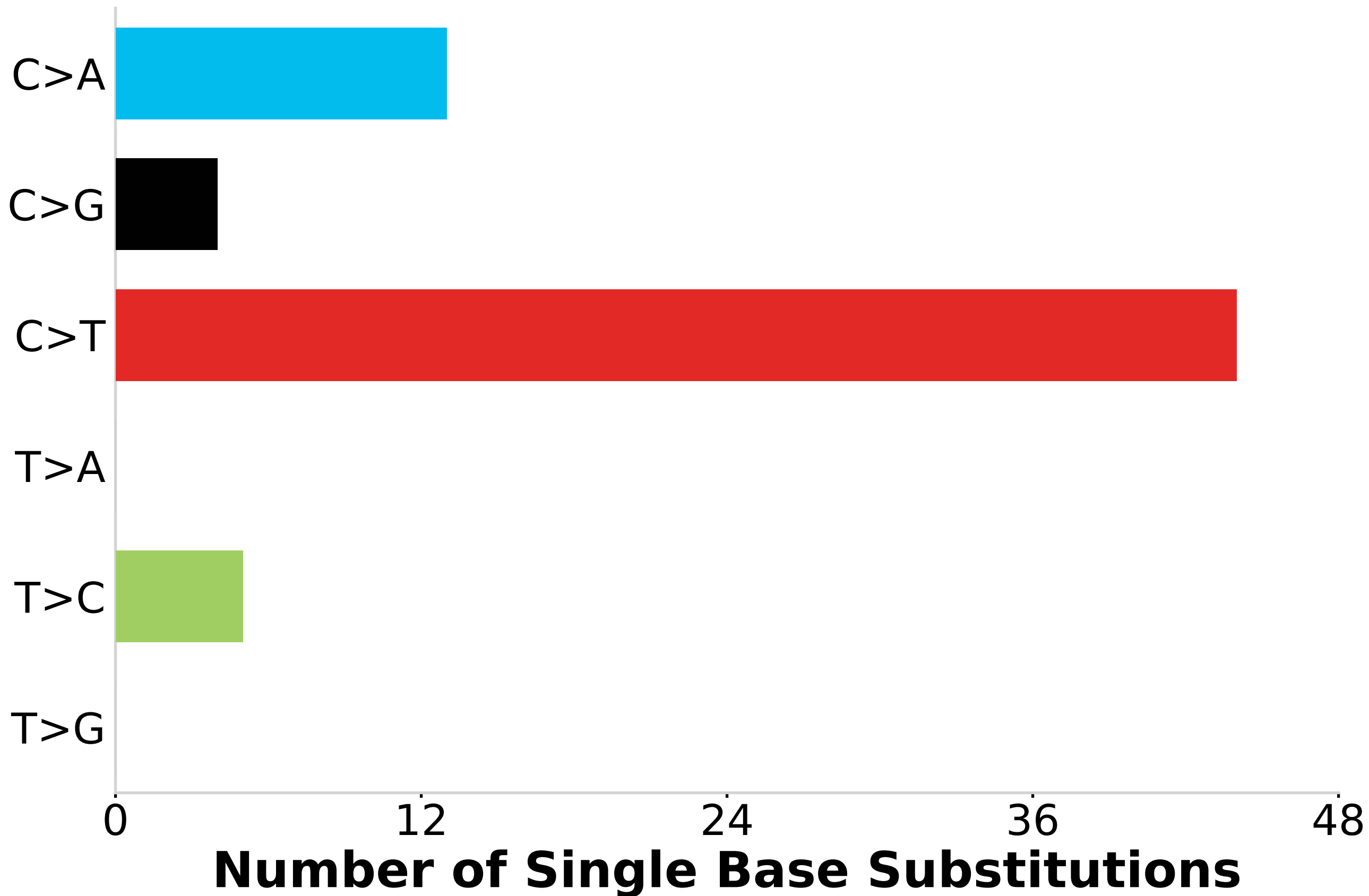
TCGA-DK-A6B6-01A-11D-A30E-08: 906 sub



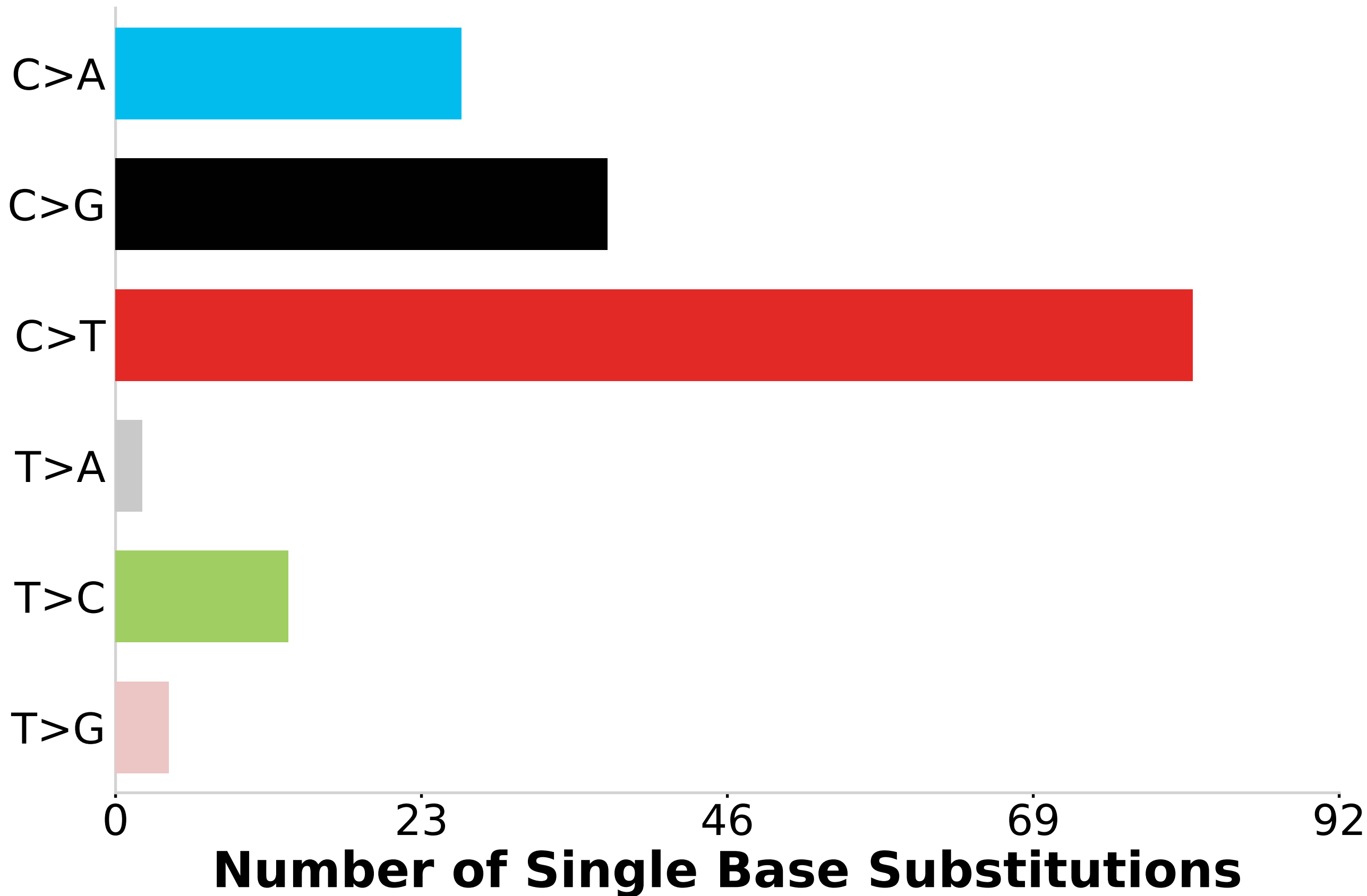
TCGA-DK-AA6L-01A-11D-A391-08: 372 sub



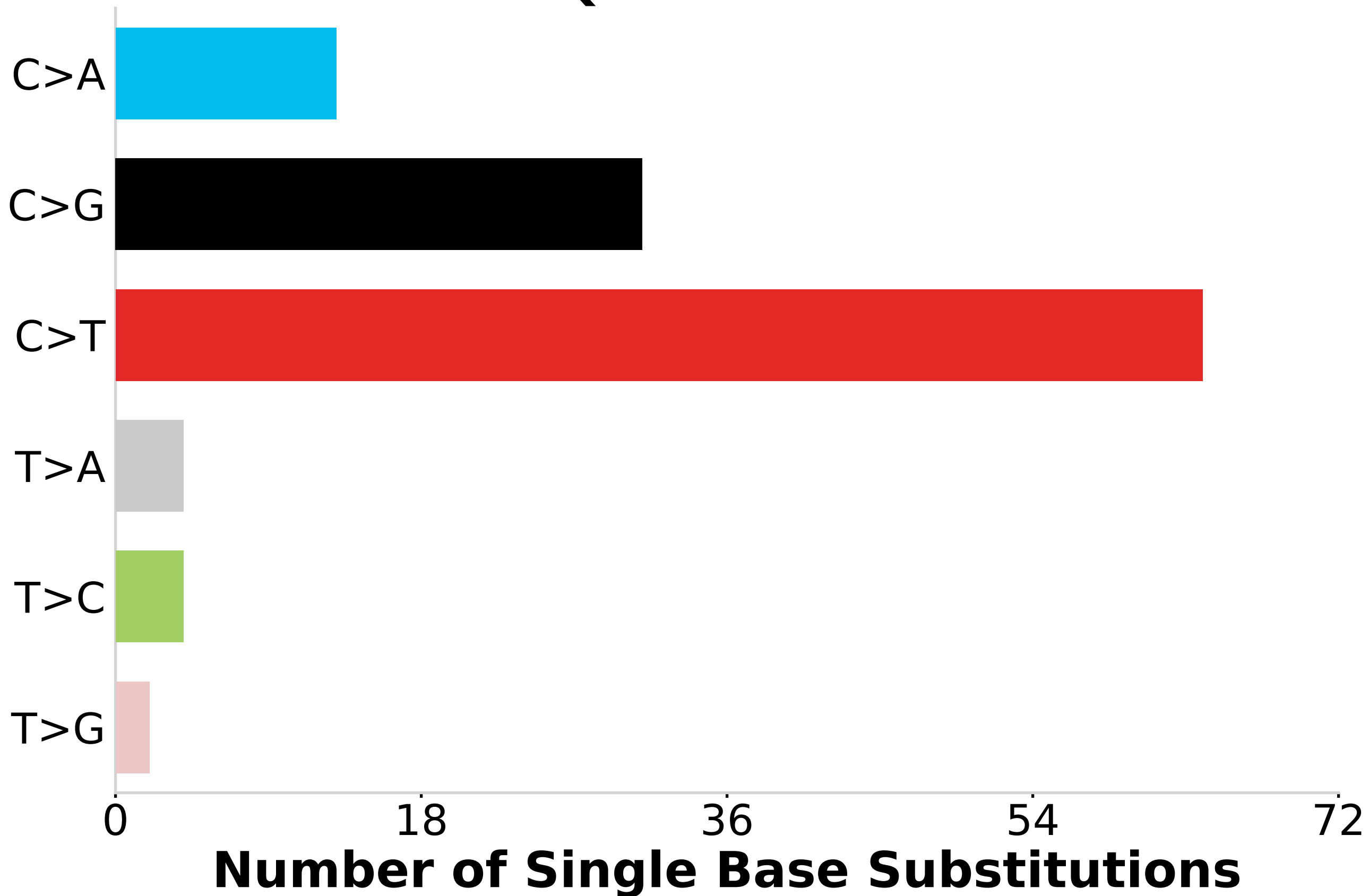
TCGA-DK-AA6M-01A-11D-A391-08: 66 subs



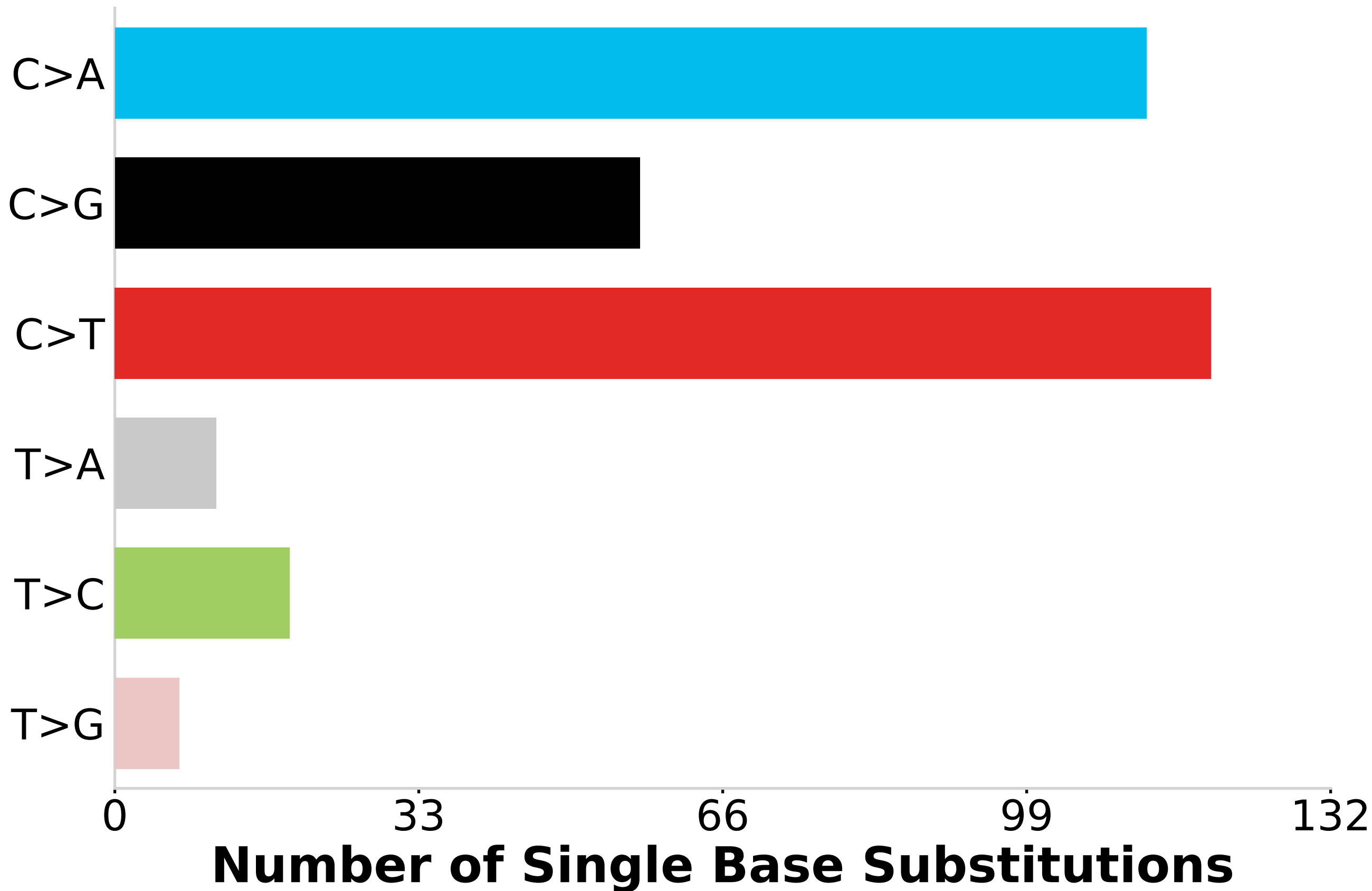
TCGA-DK-AA6P-01A-11D-A391-08: 163 sub



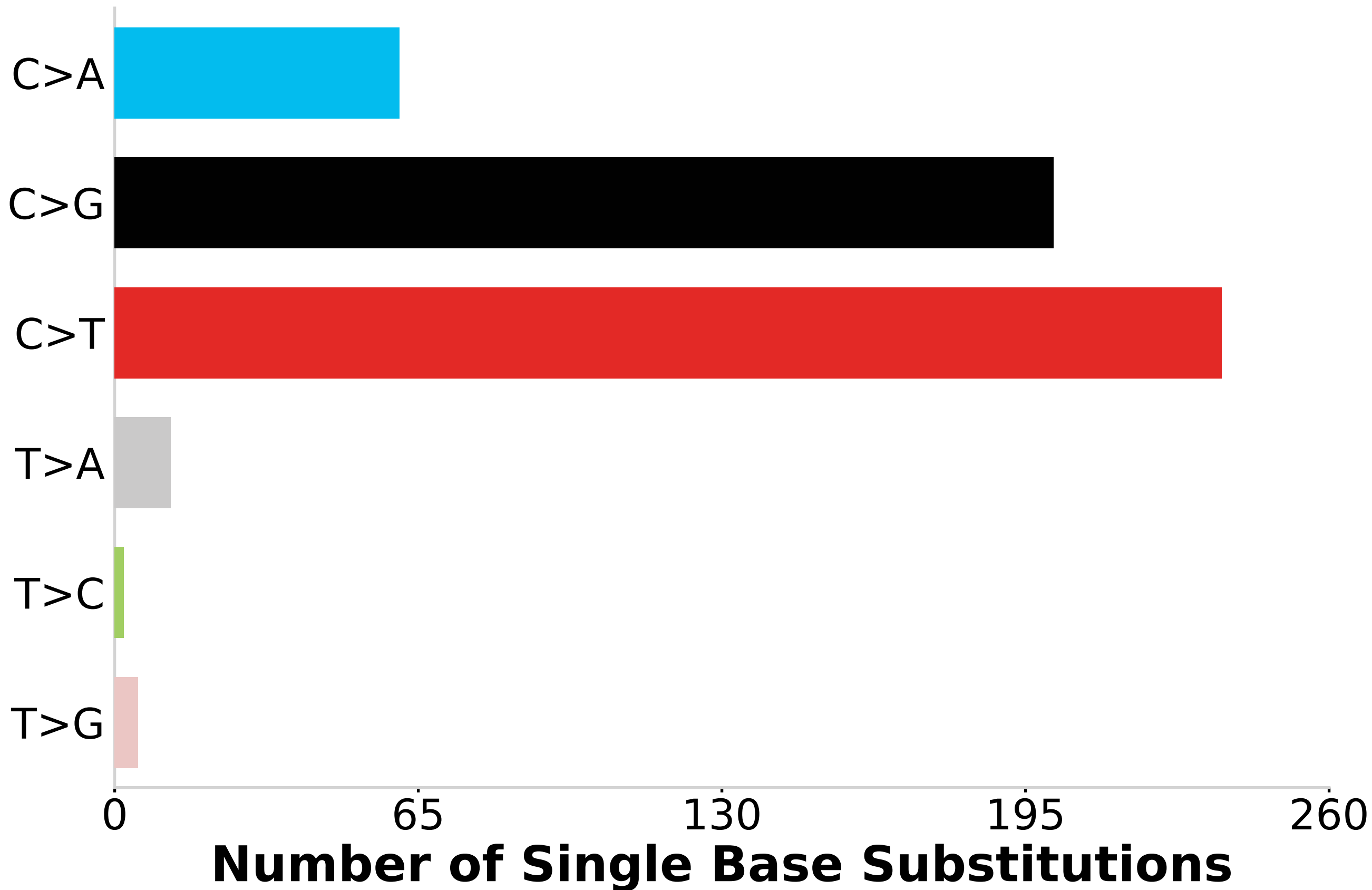
TCGA-DK-AA6Q-01A-11D-A391-08: 118 sub



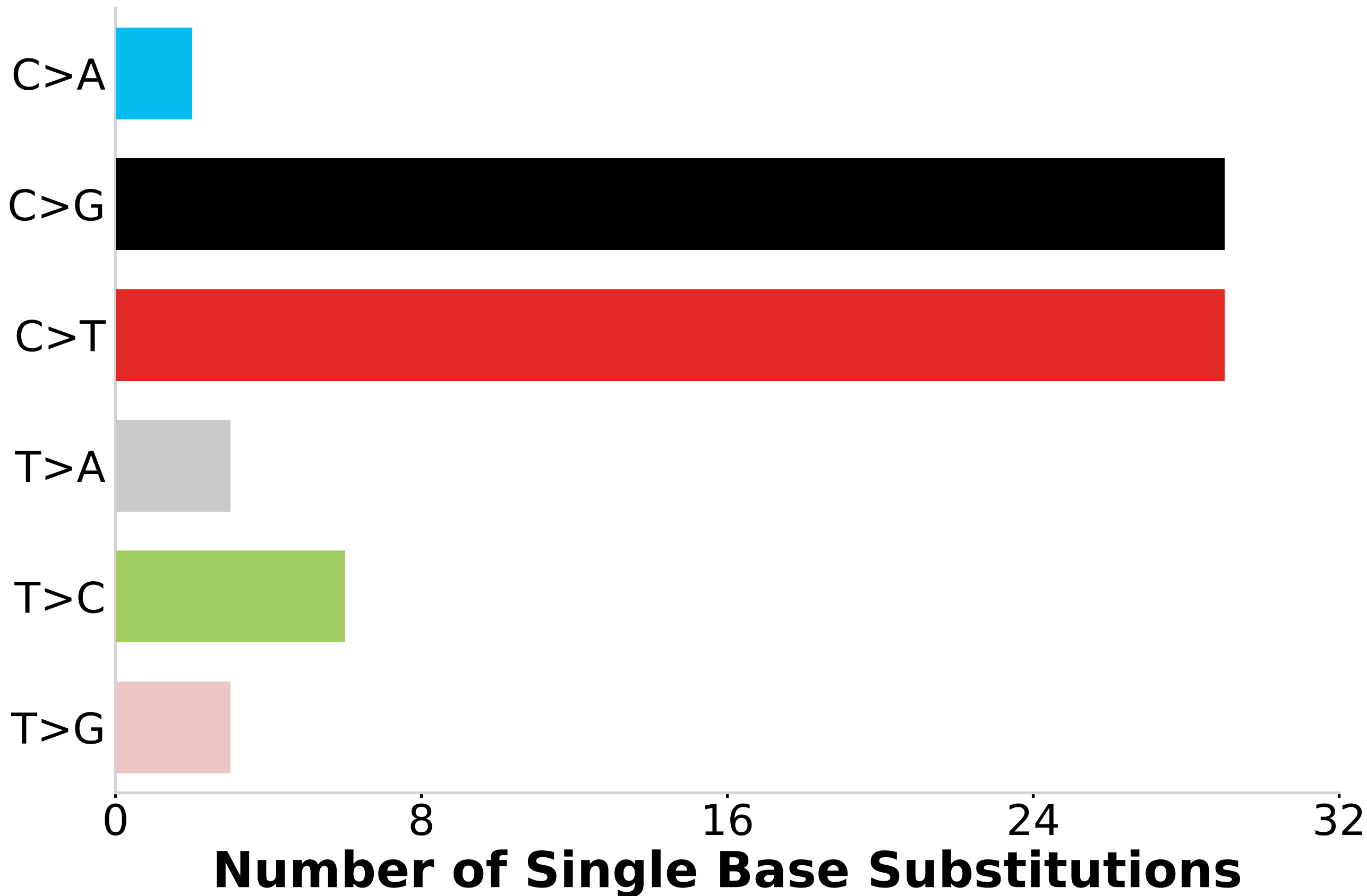
TCGA-DK-AA6R-01A-11D-A42E-08: 325 sub



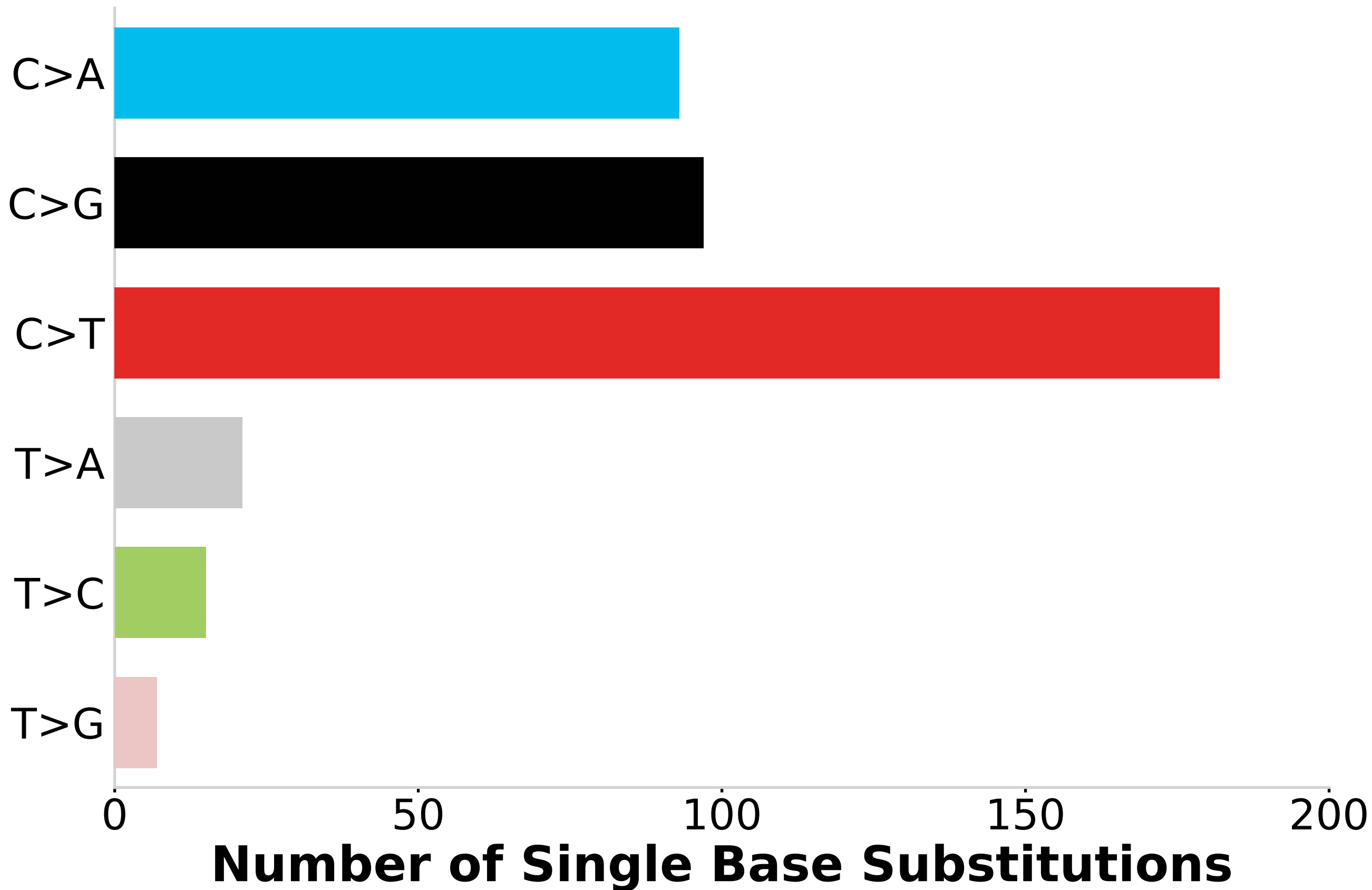
TCGA-DK-AA6S-01A-21D-A391-08: 518 sub



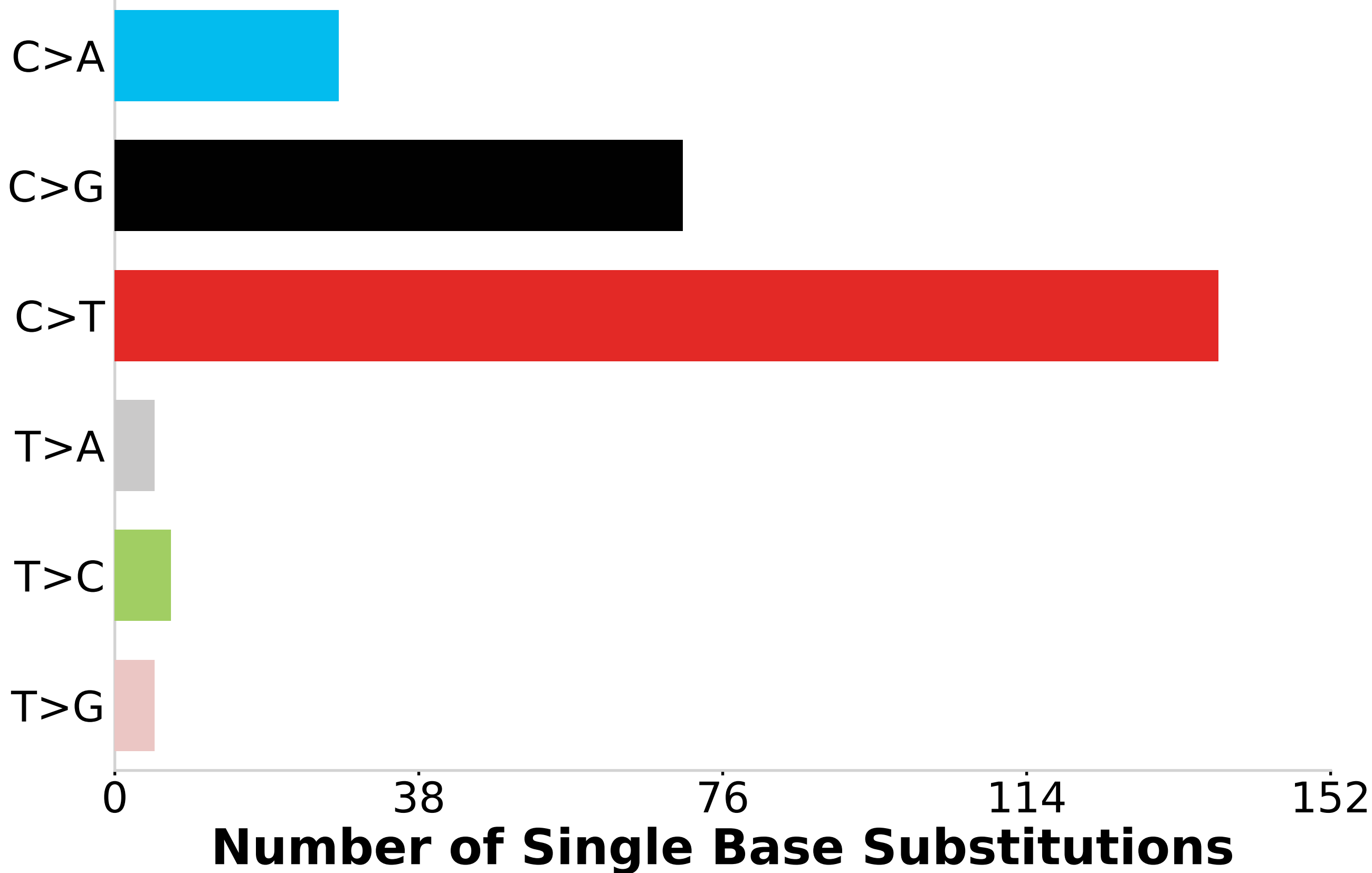
TCGA-DK-AA6T-01A-11D-A391-08: 72 subs



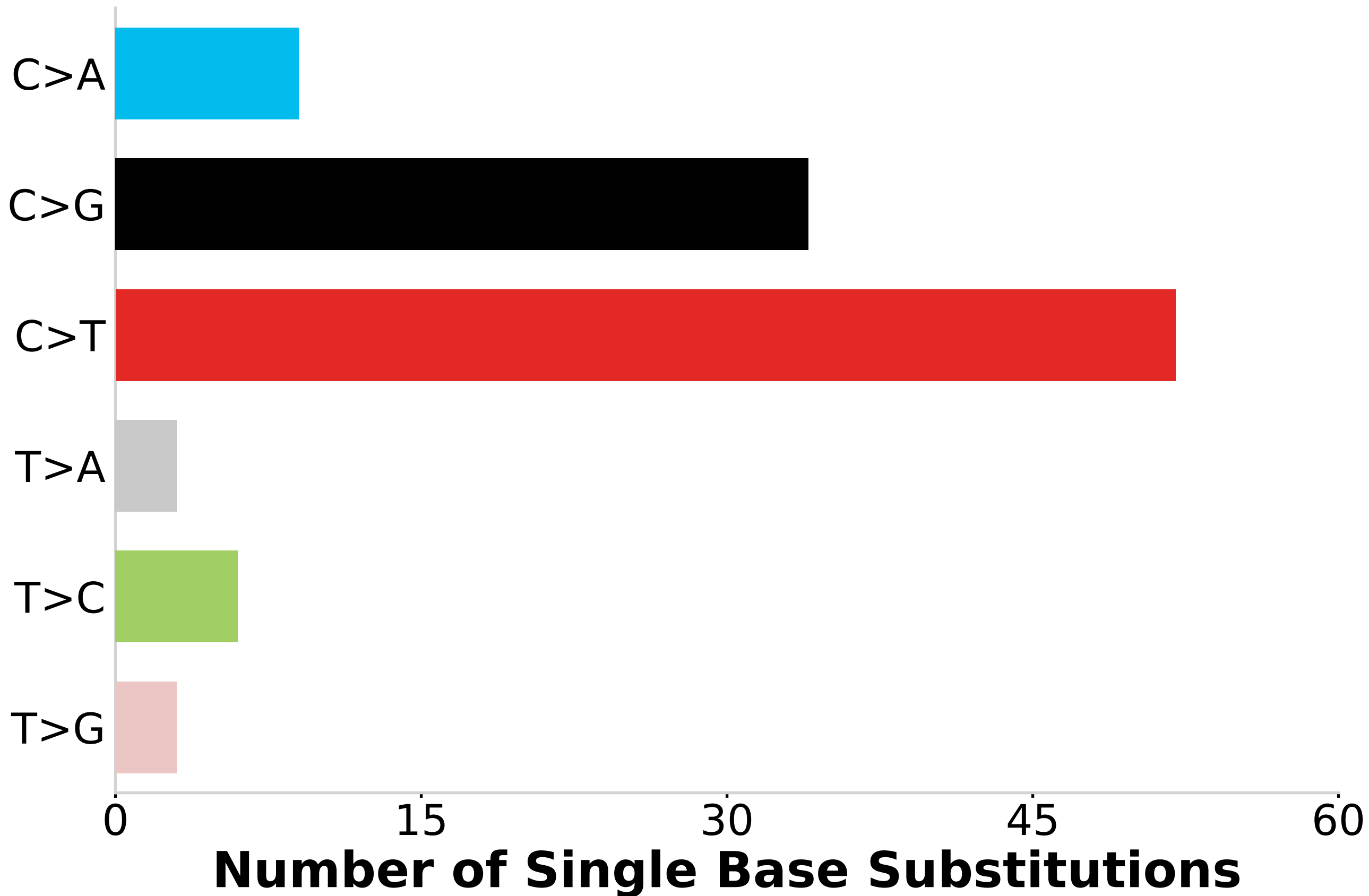
TCGA-DK-AA6U-01A-11D-A391-08: 415 sub



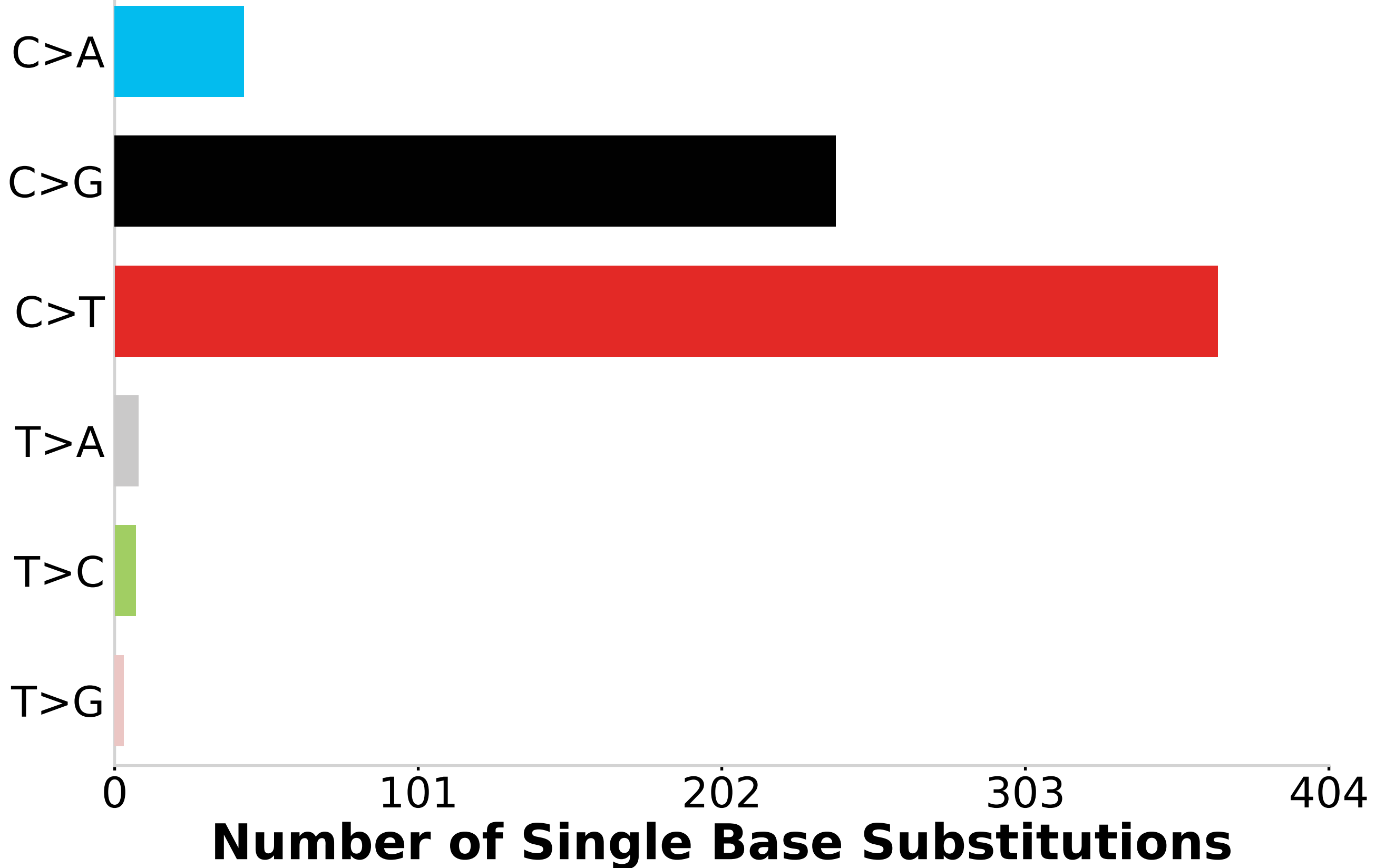
TCGA-DK-AA6W-01A-12D-A391-08: 254 sub



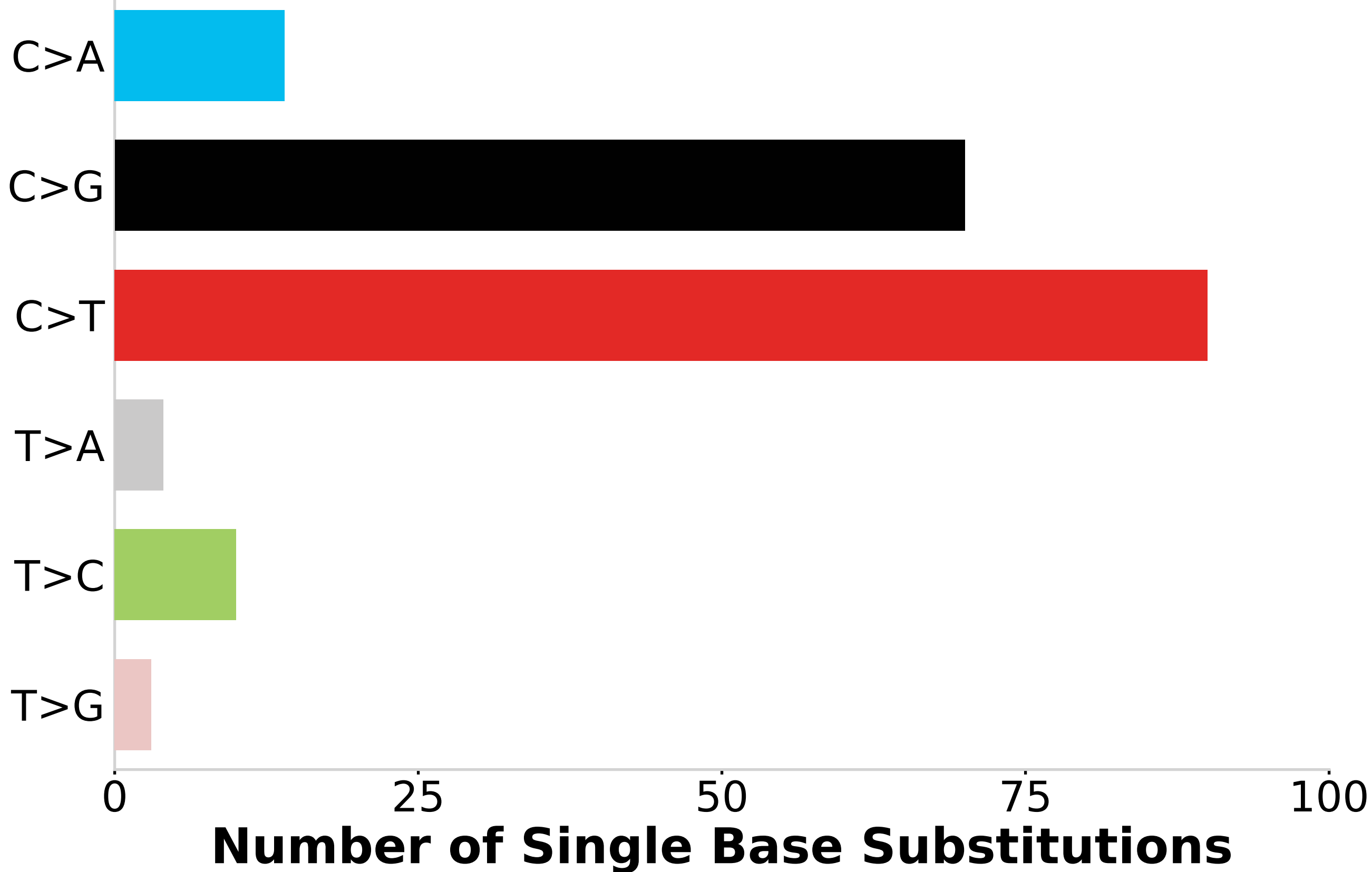
TCGA-DK-AA6X-01A-12D-A42E-08: 107 sub



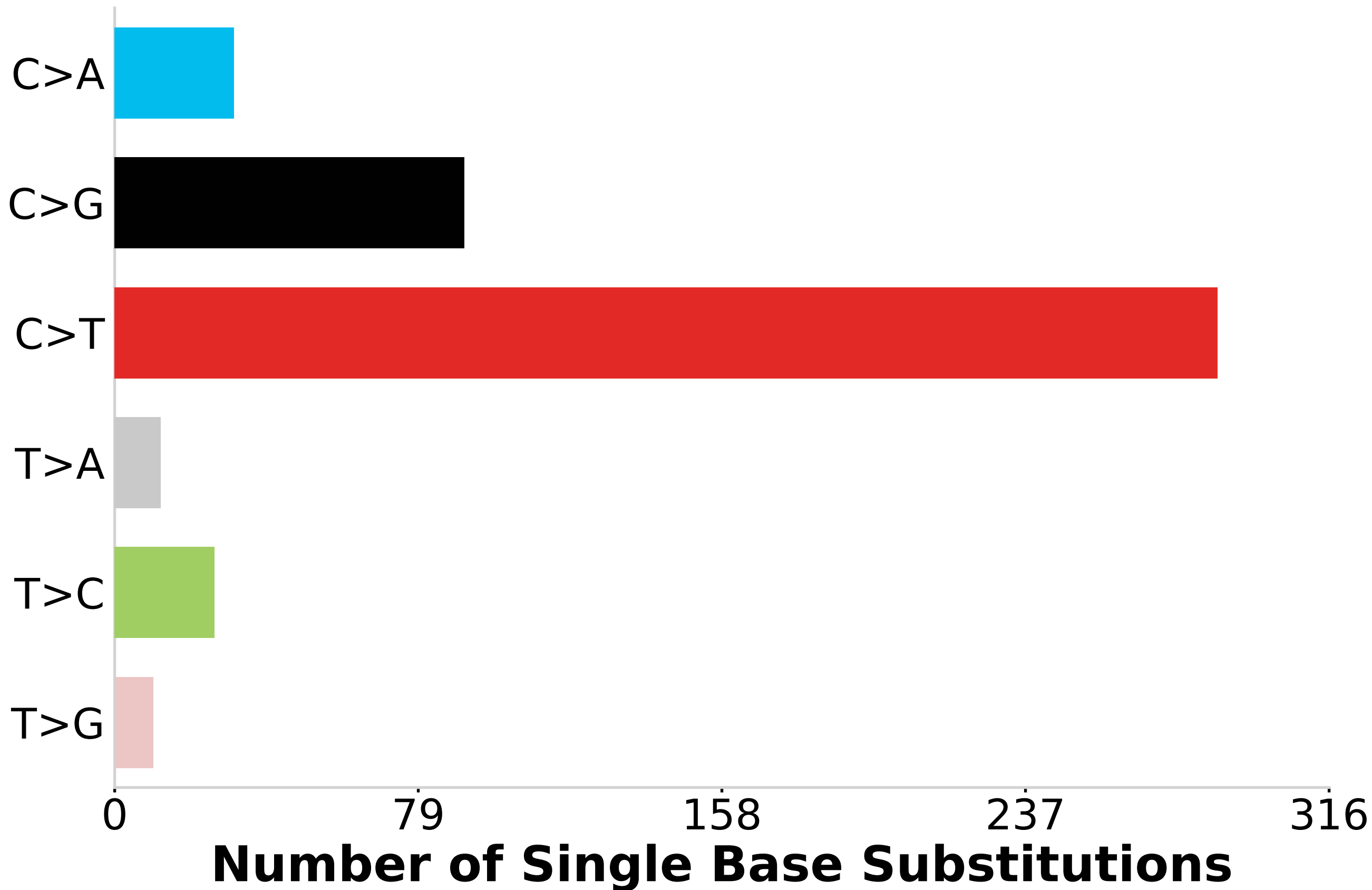
TCGA-DK-AA71-01A-31D-A391-08: 668 sub



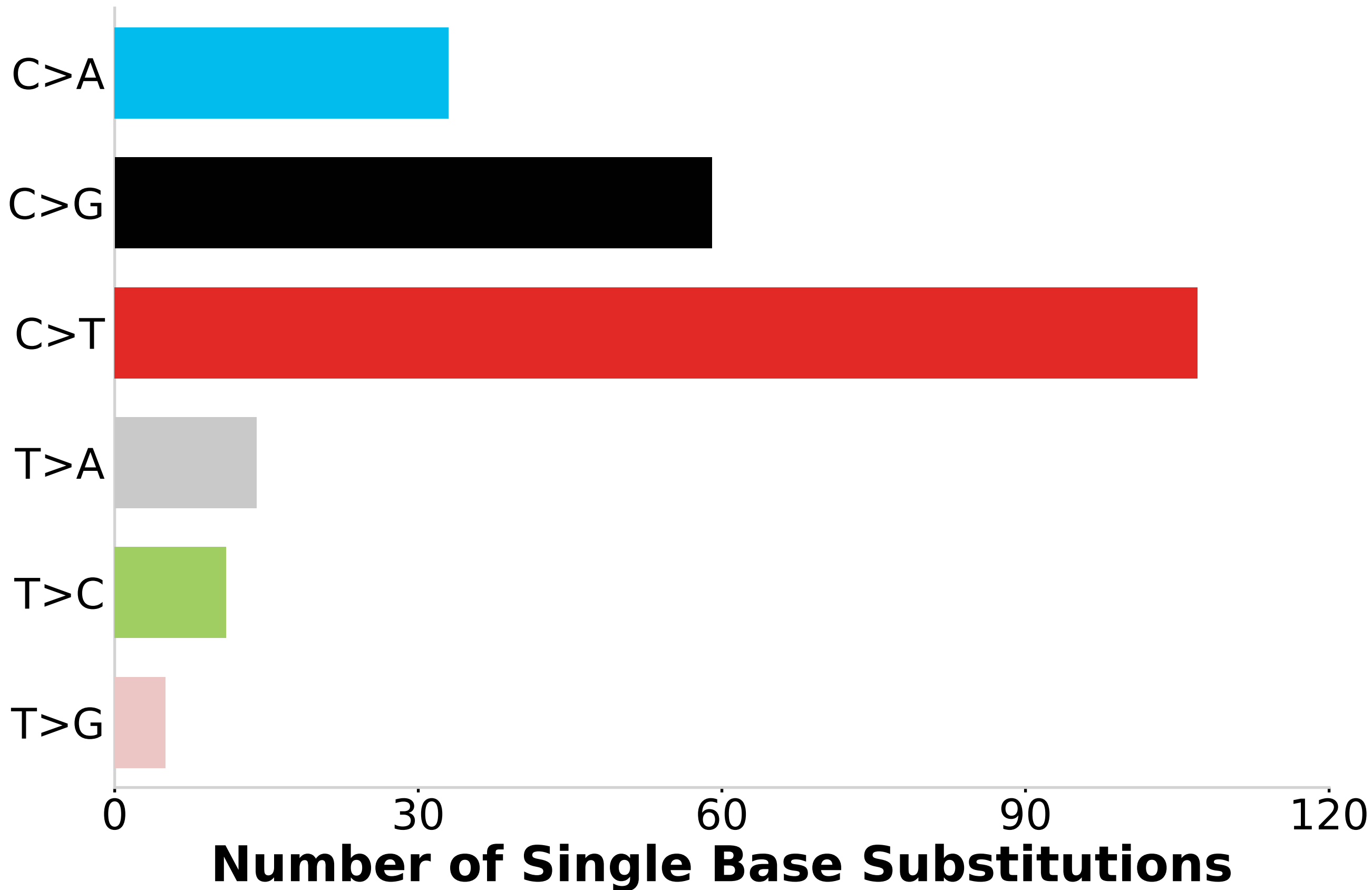
TCGA-DK-AA74-01A-11D-A391-08: 191 sub



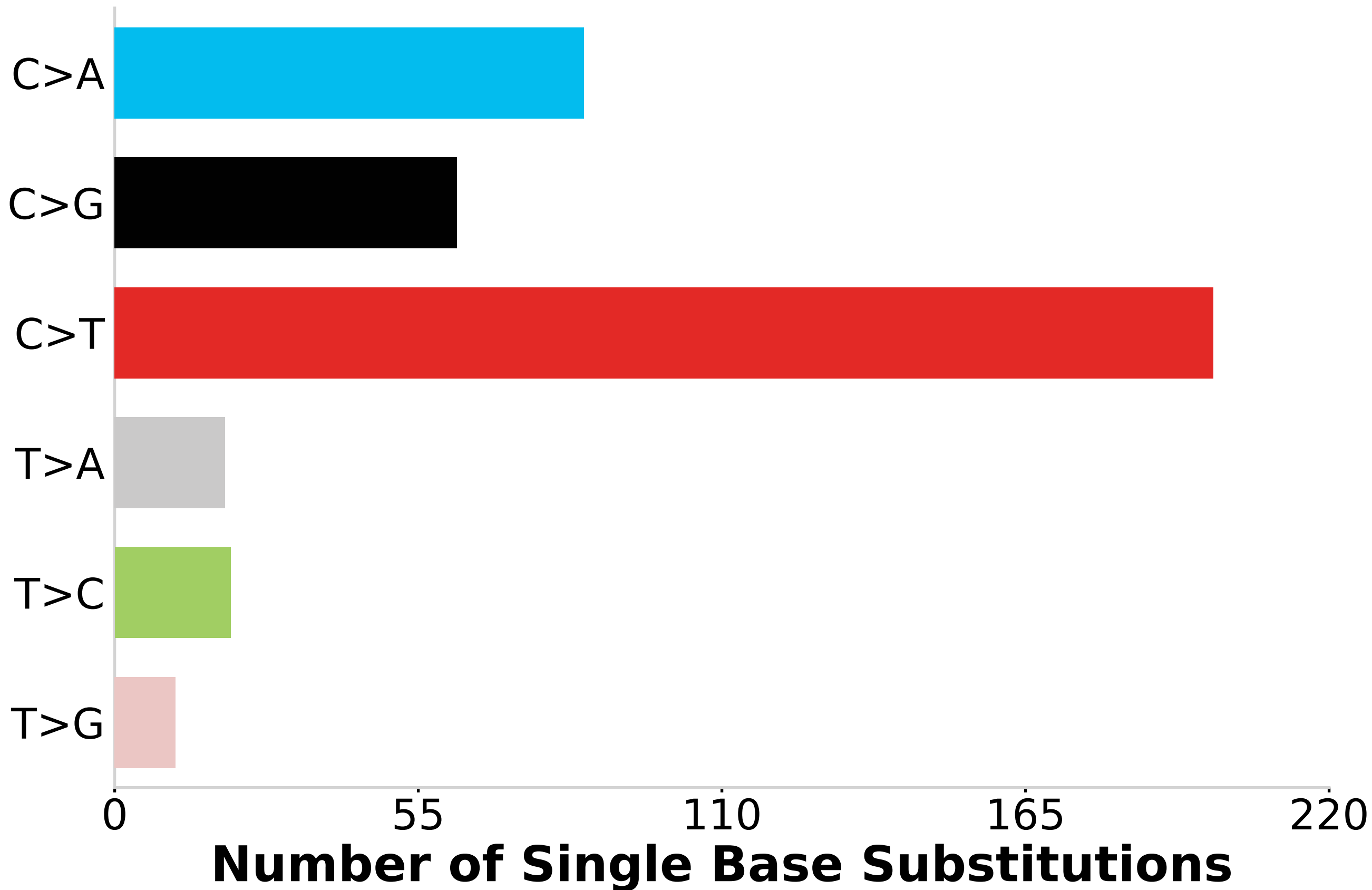
TCGA-DK-AA75-01A-11D-A391-08: 457 sub



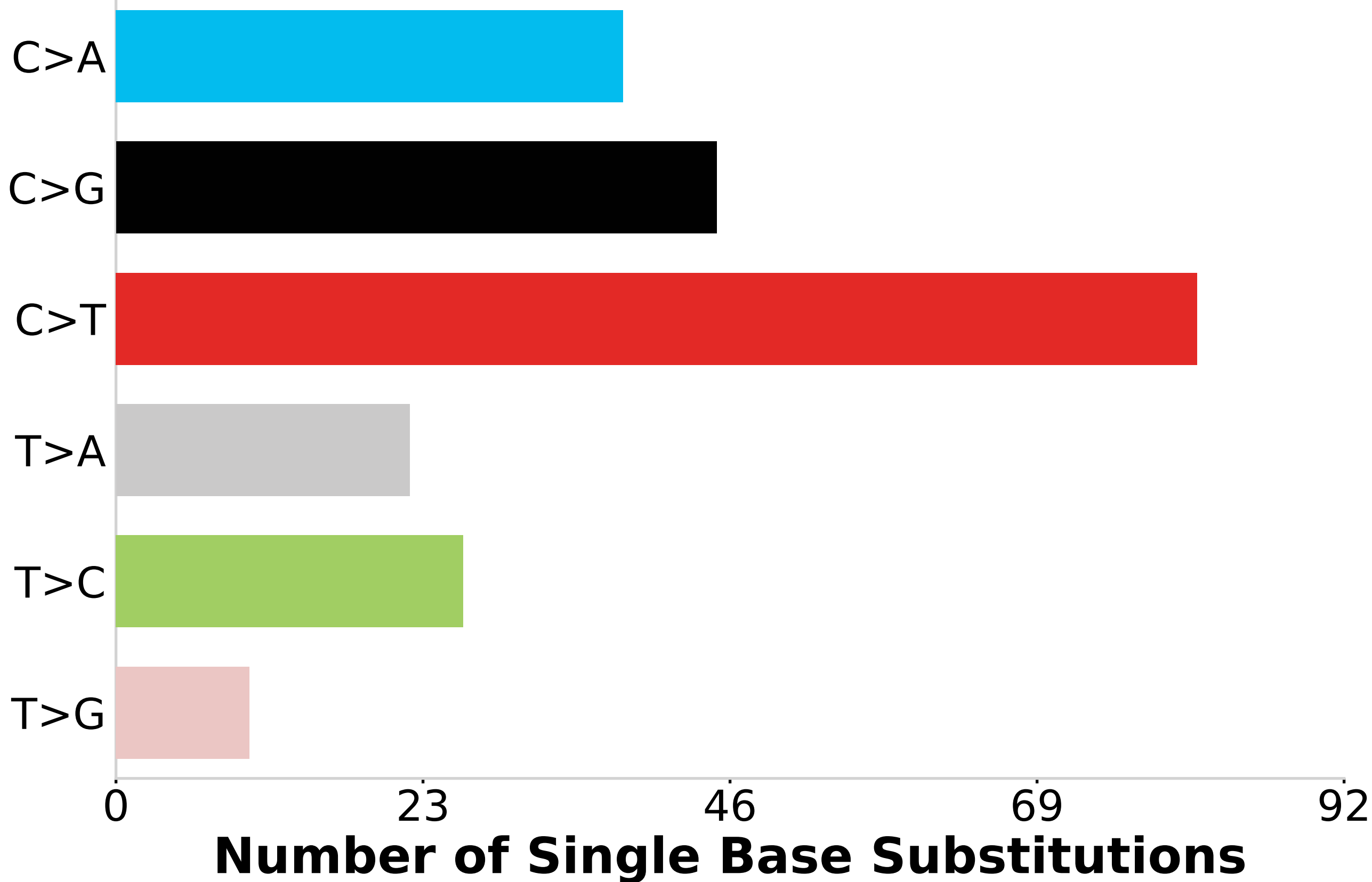
TCGA-DK-AA76-01A-11D-A391-08: 229 sub



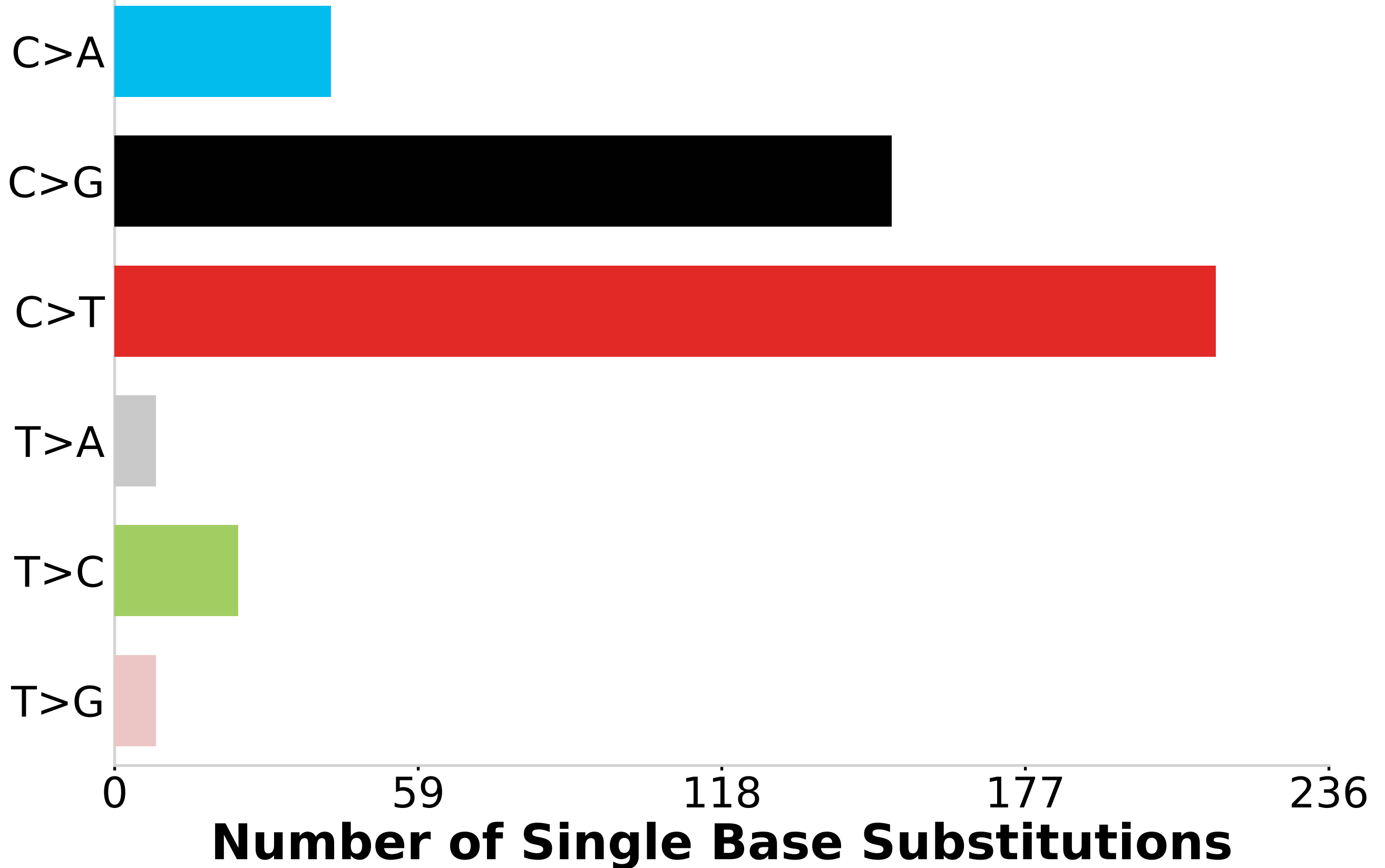
TCGA-DK-AA77-01A-11D-A391-08: 398 sub



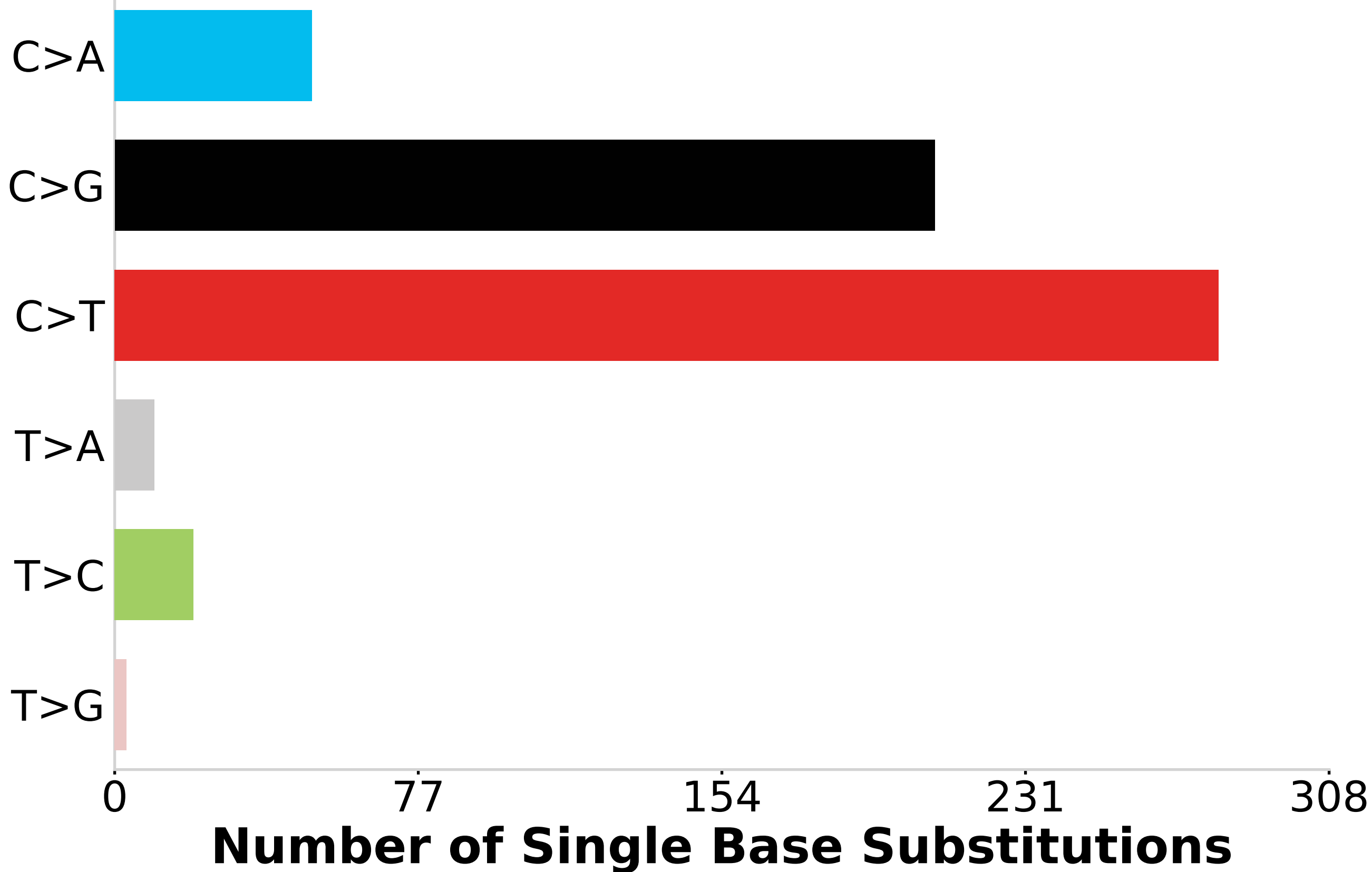
TCGA-E5-A2PC-01A-11D-A202-08: 222 sub



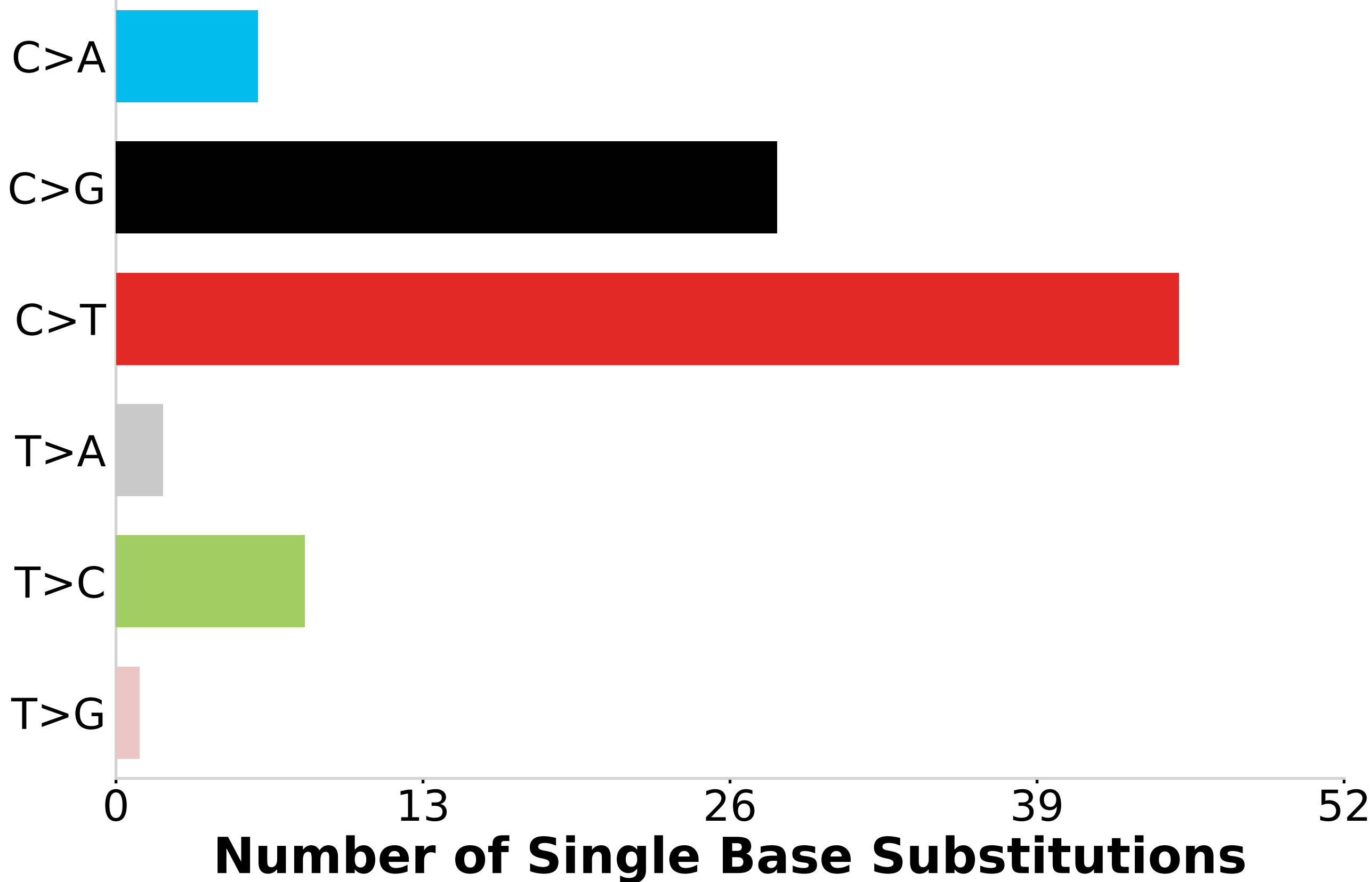
TCGA-E5-A4TZ-01A-11D-A31L-08: 447 sub



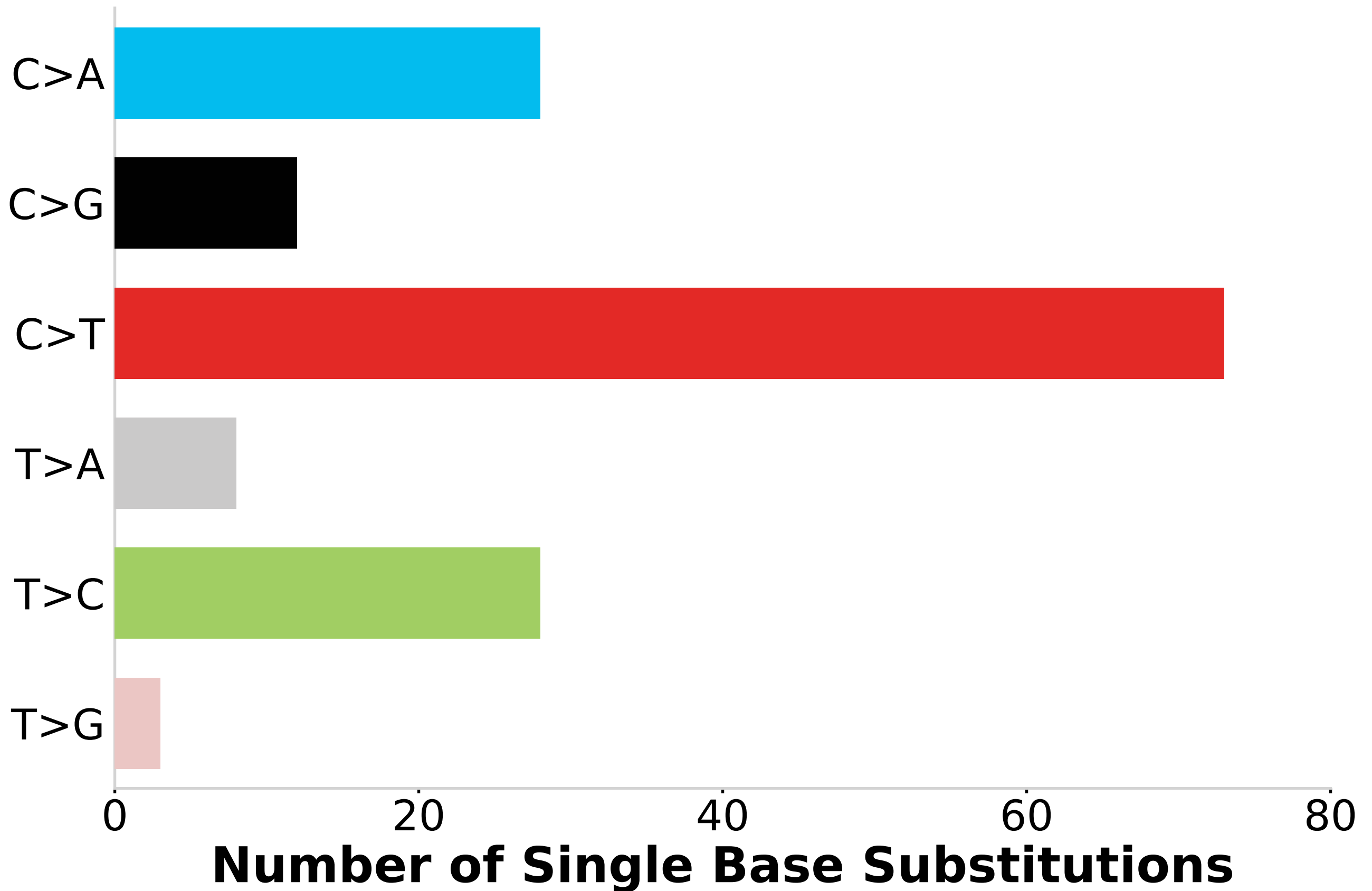
TCGA-E5-A4U1-01A-11D-A31L-08: 571 sub



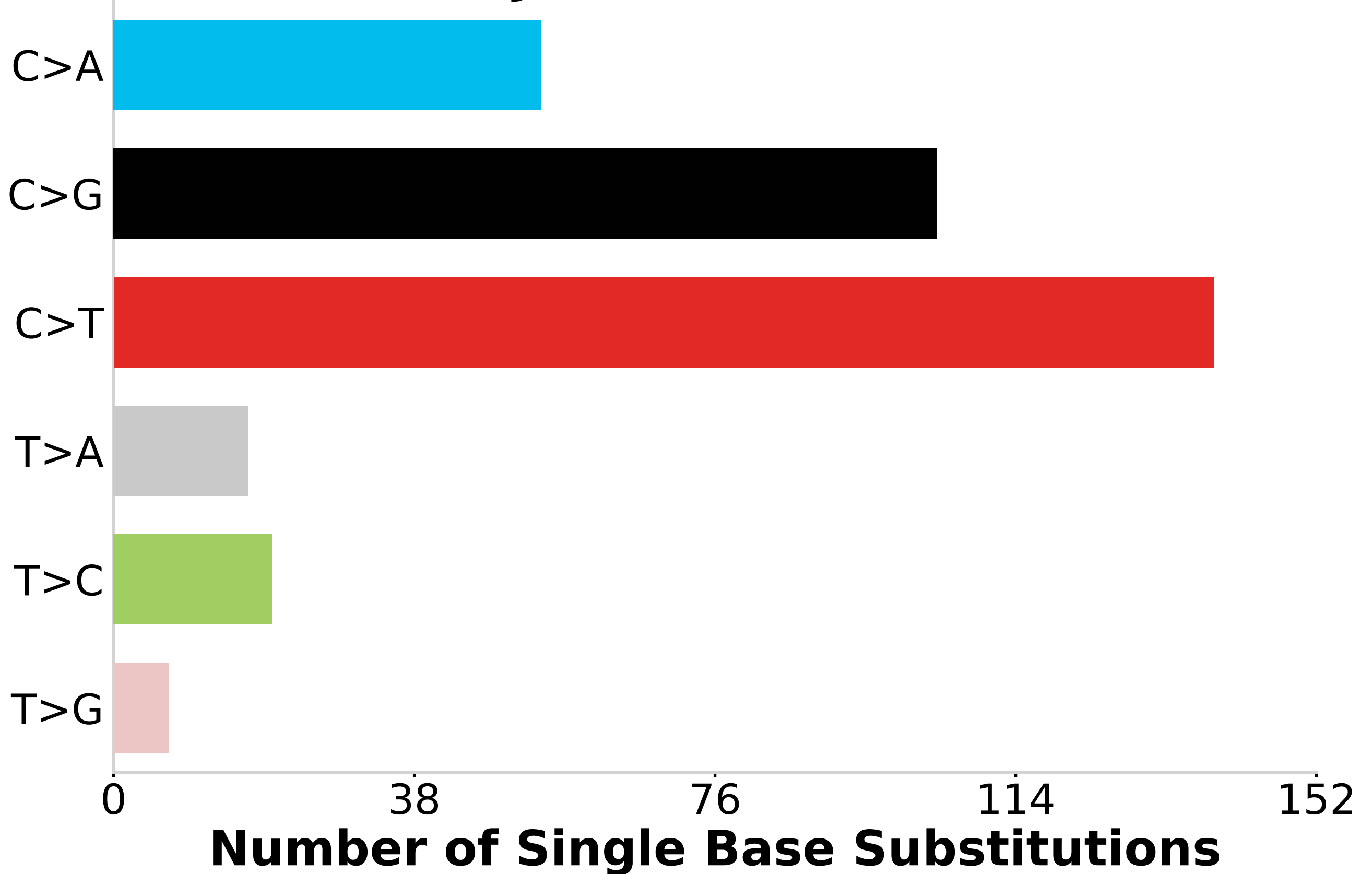
TCGA-E7-A3X6-01A-12D-A22Z-08: 90 subs



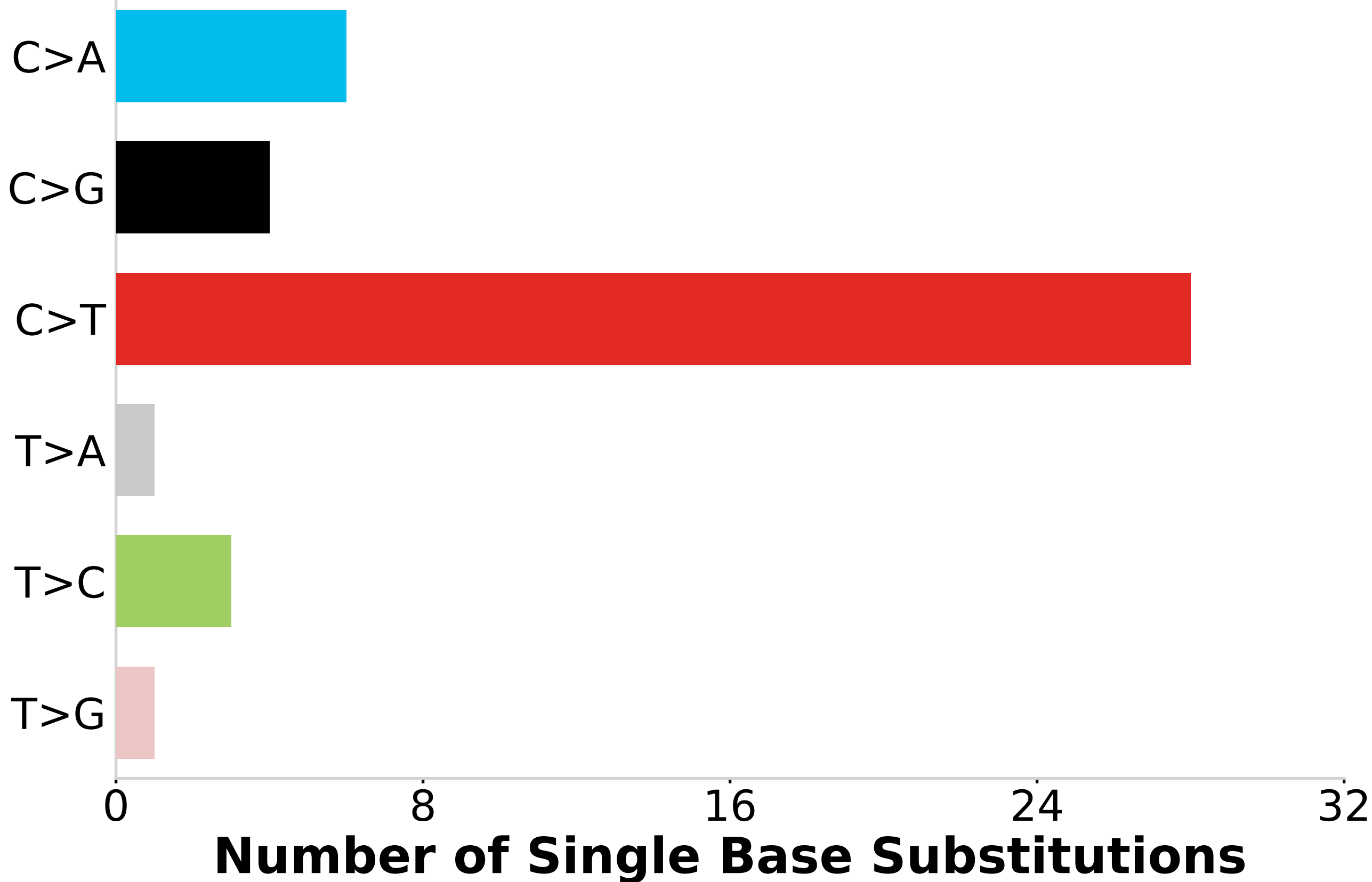
TCGA-E7-A3Y1-01A-11D-A22Z-08: 152 sub



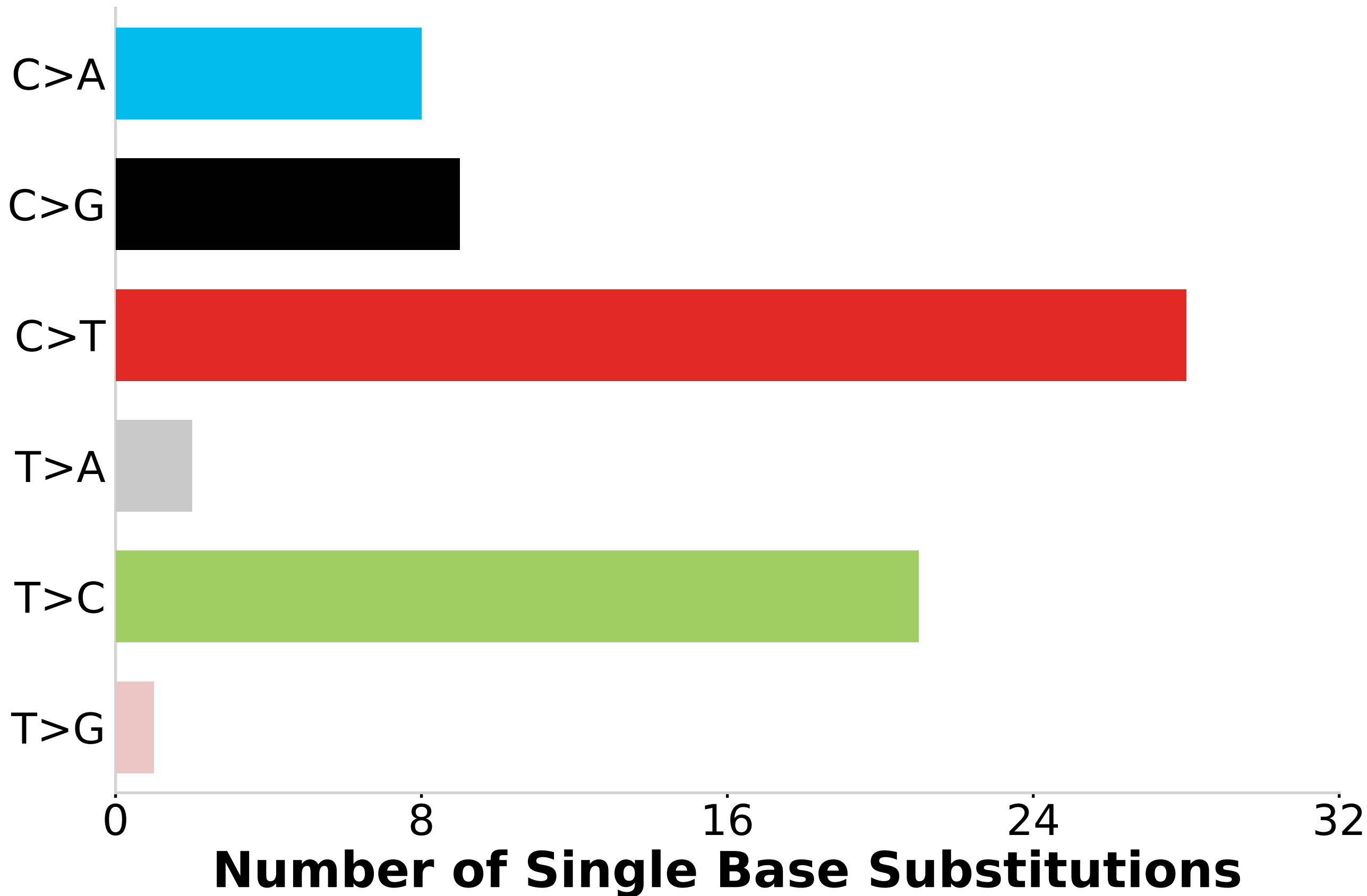
TCGA-E7-A4IJ-01A-31D-A26M-08: 341 subs



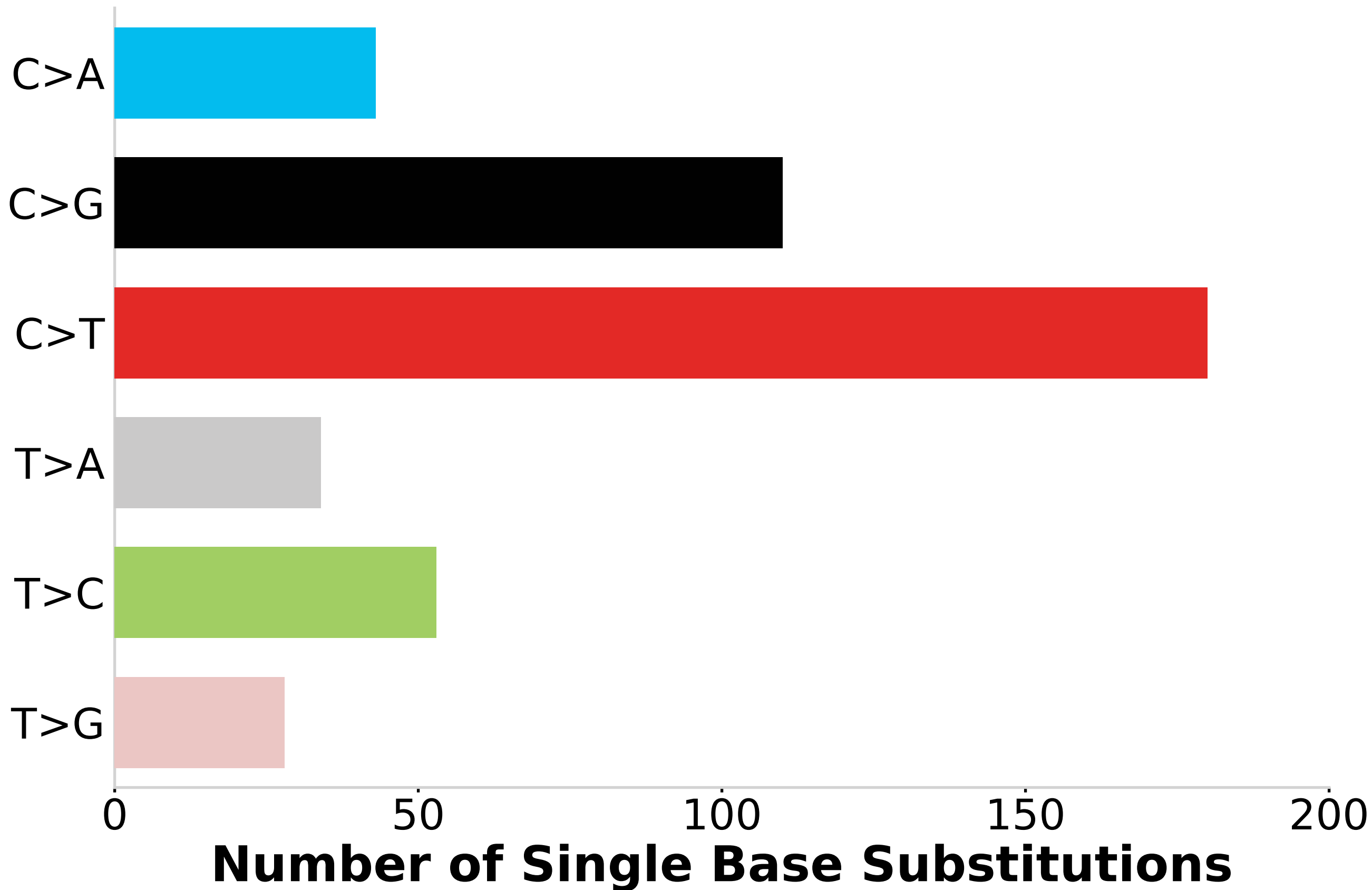
TCGA-E7-A4XJ-01A-11D-A26M-08: 43 subs



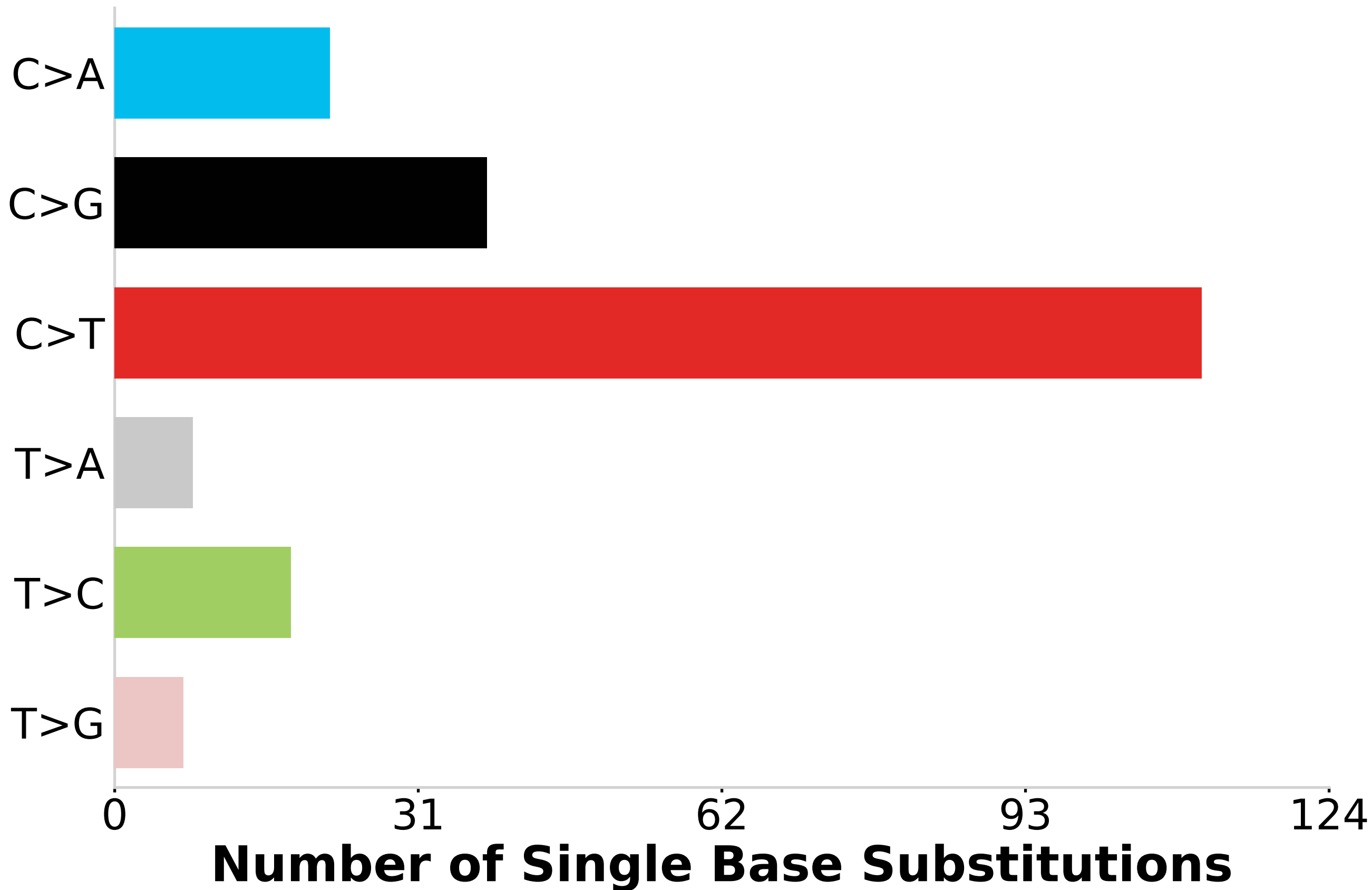
TCGA-E7-A519-01A-11D-A26M-08: 69 subs



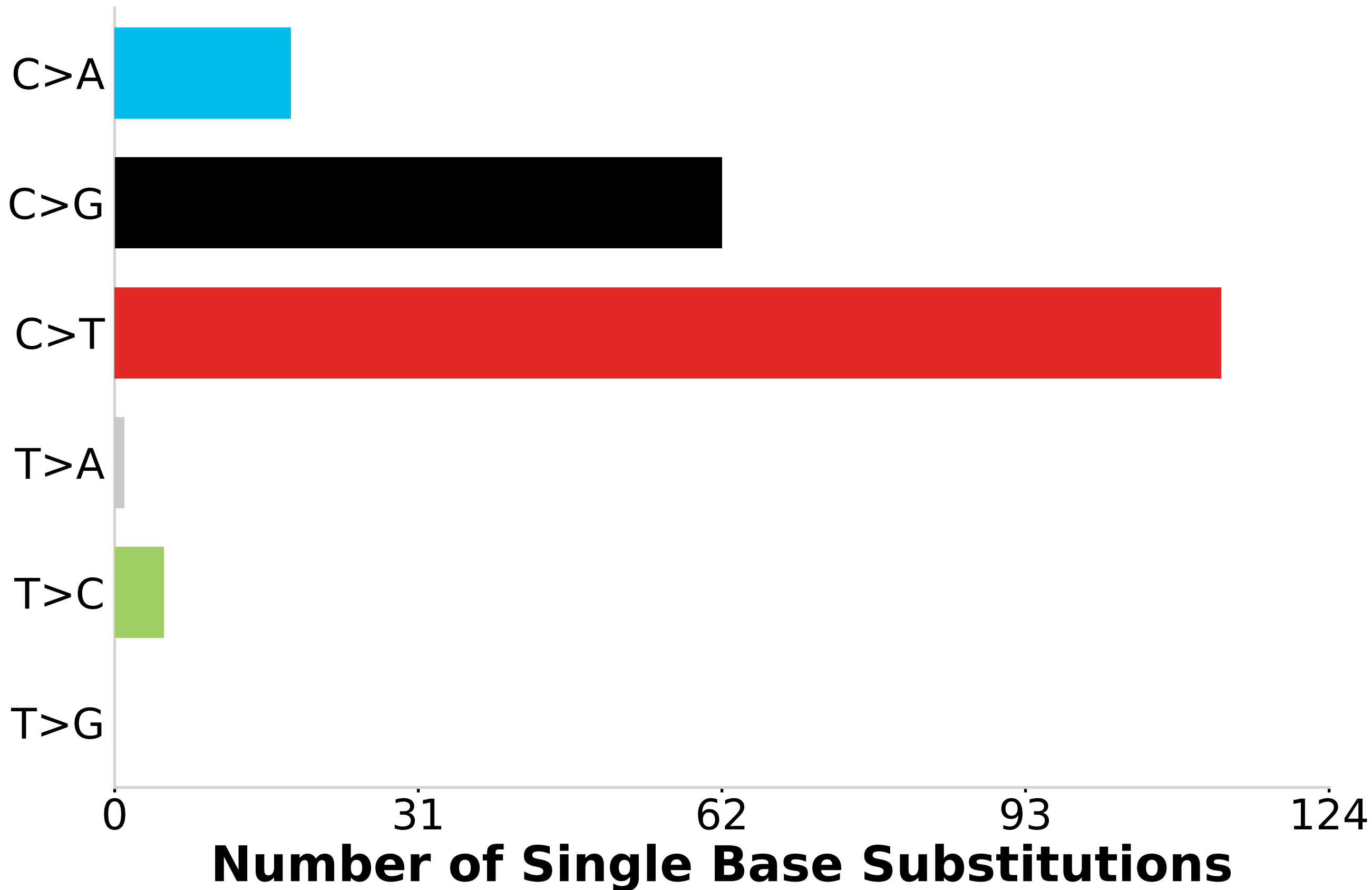
TCGA-E7-A541-01A-11D-A26M-08: 448 sub



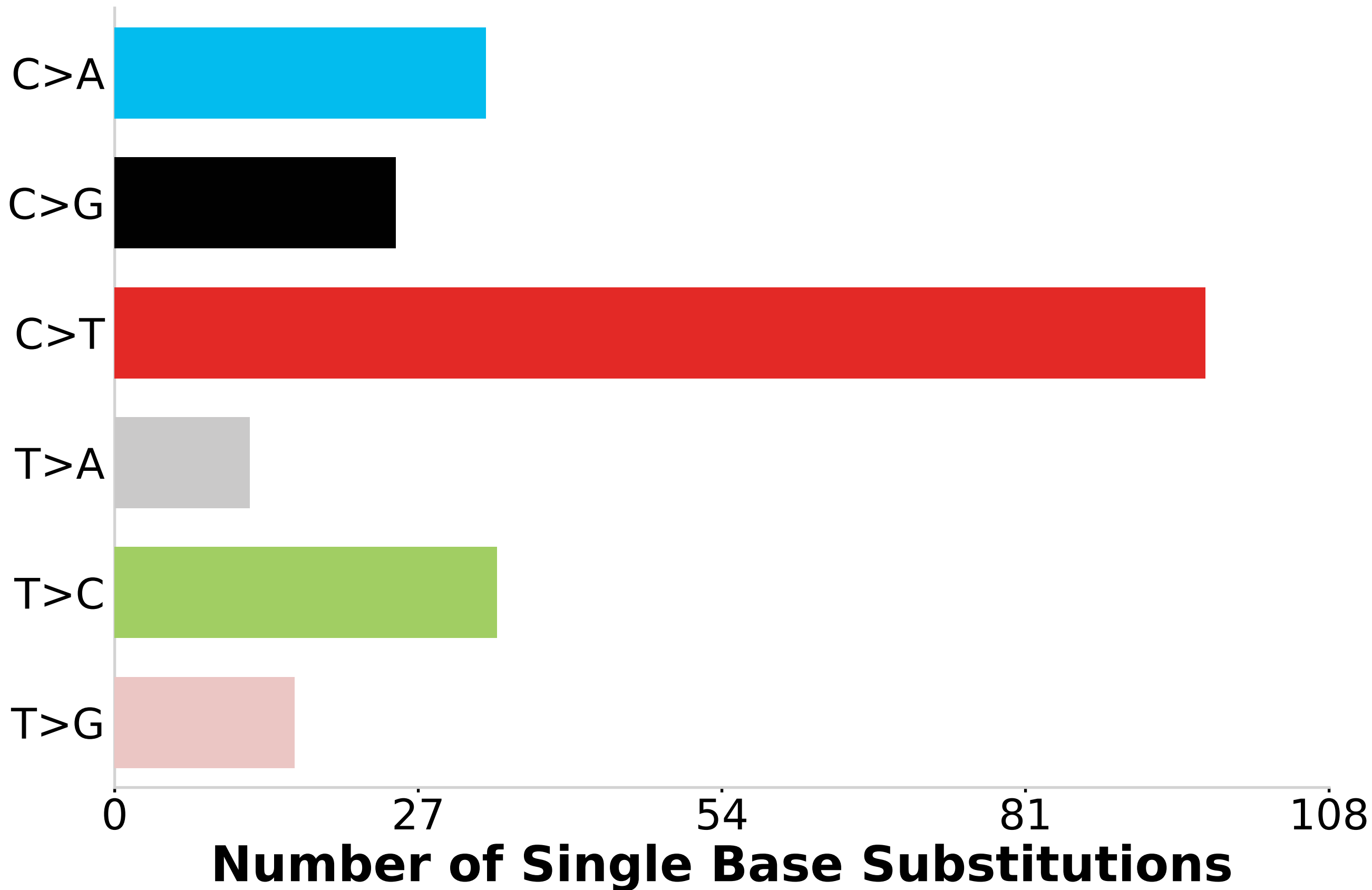
TCGA-E7-A5KE-01A-11D-A289-08: 204 sub



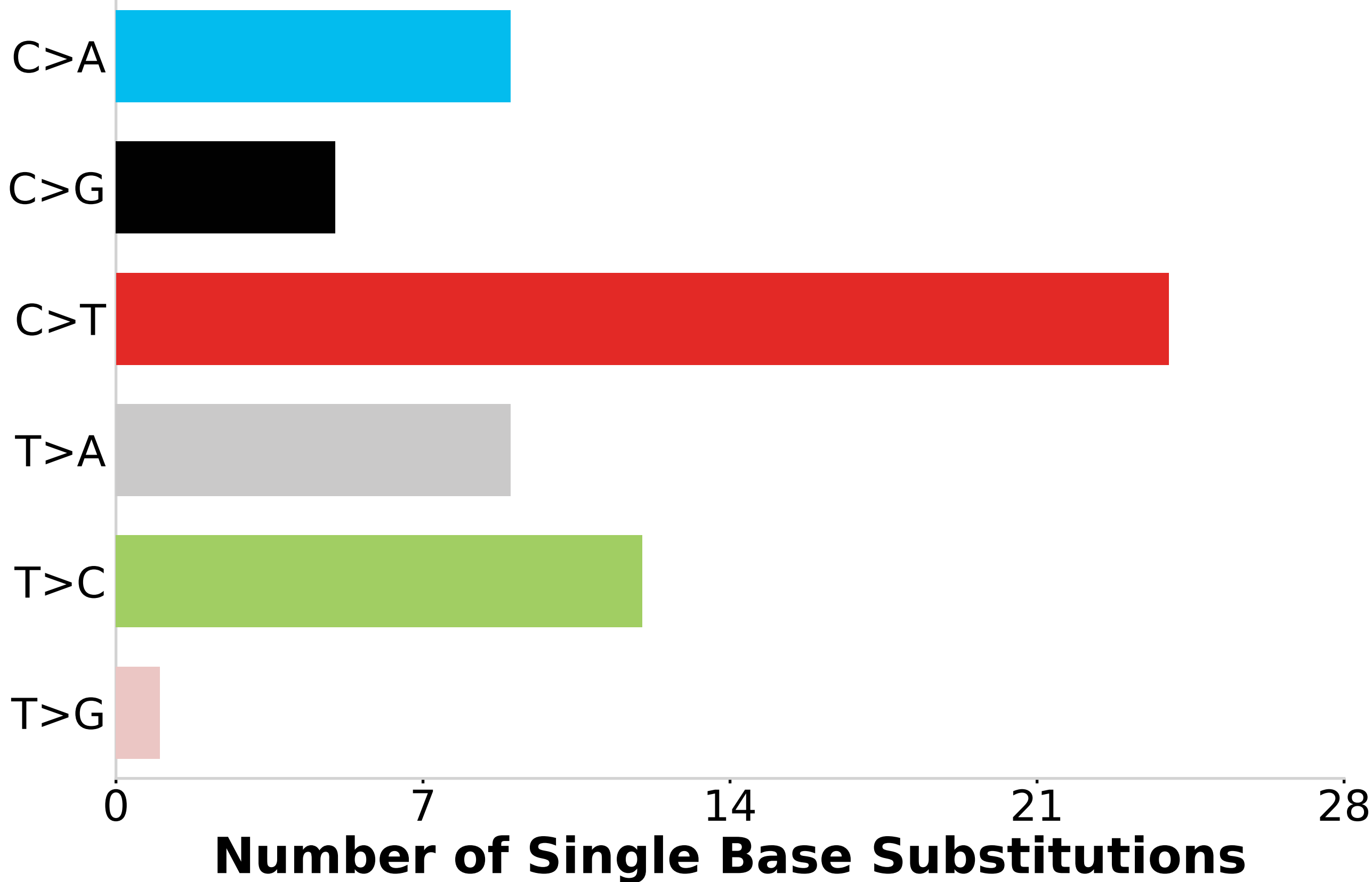
TCGA-E7-A5KF-01A-11D-A289-08: 199 sub



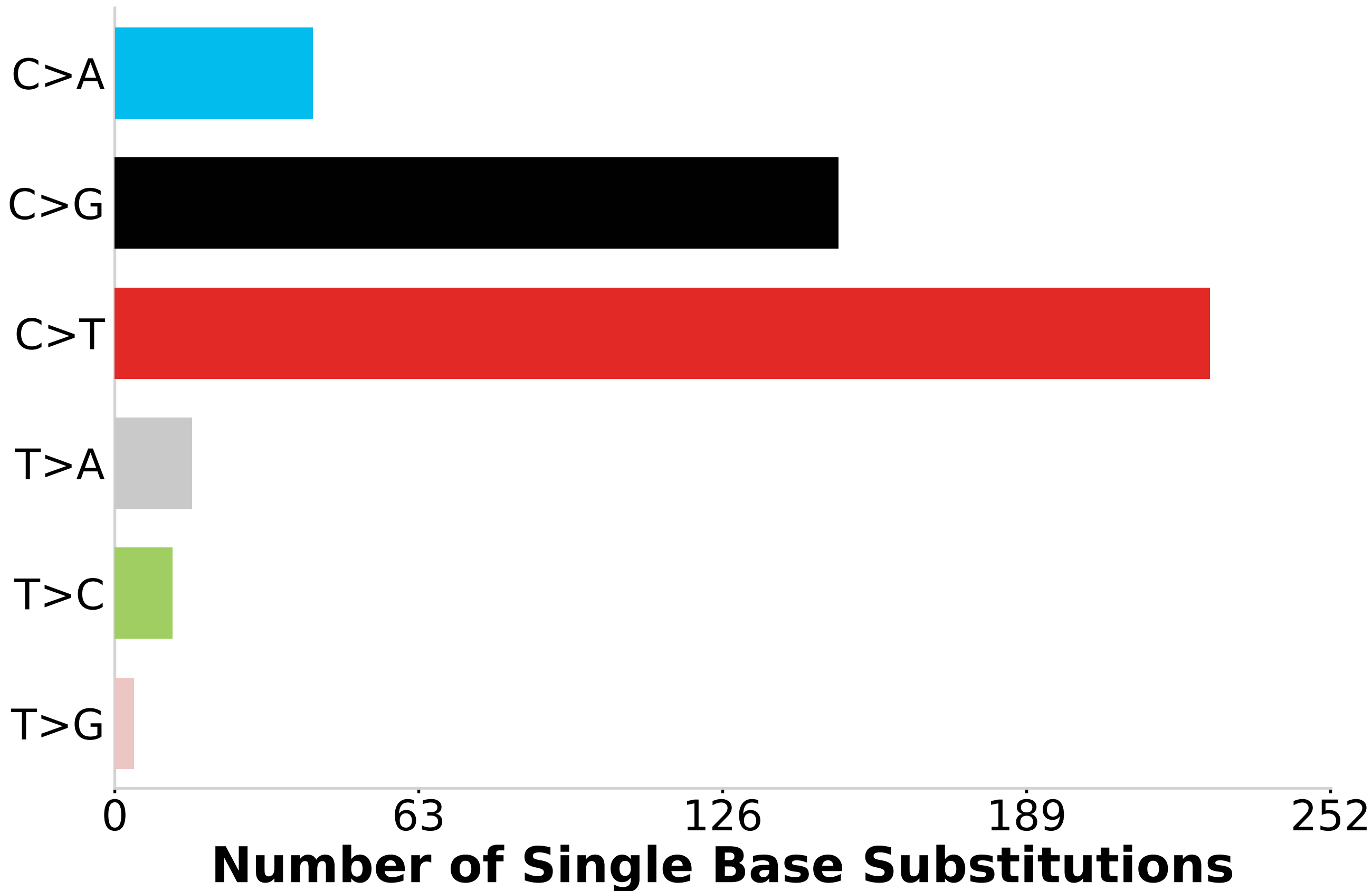
TCGA-E7-A677-01A-11D-A30E-08: 217 sub



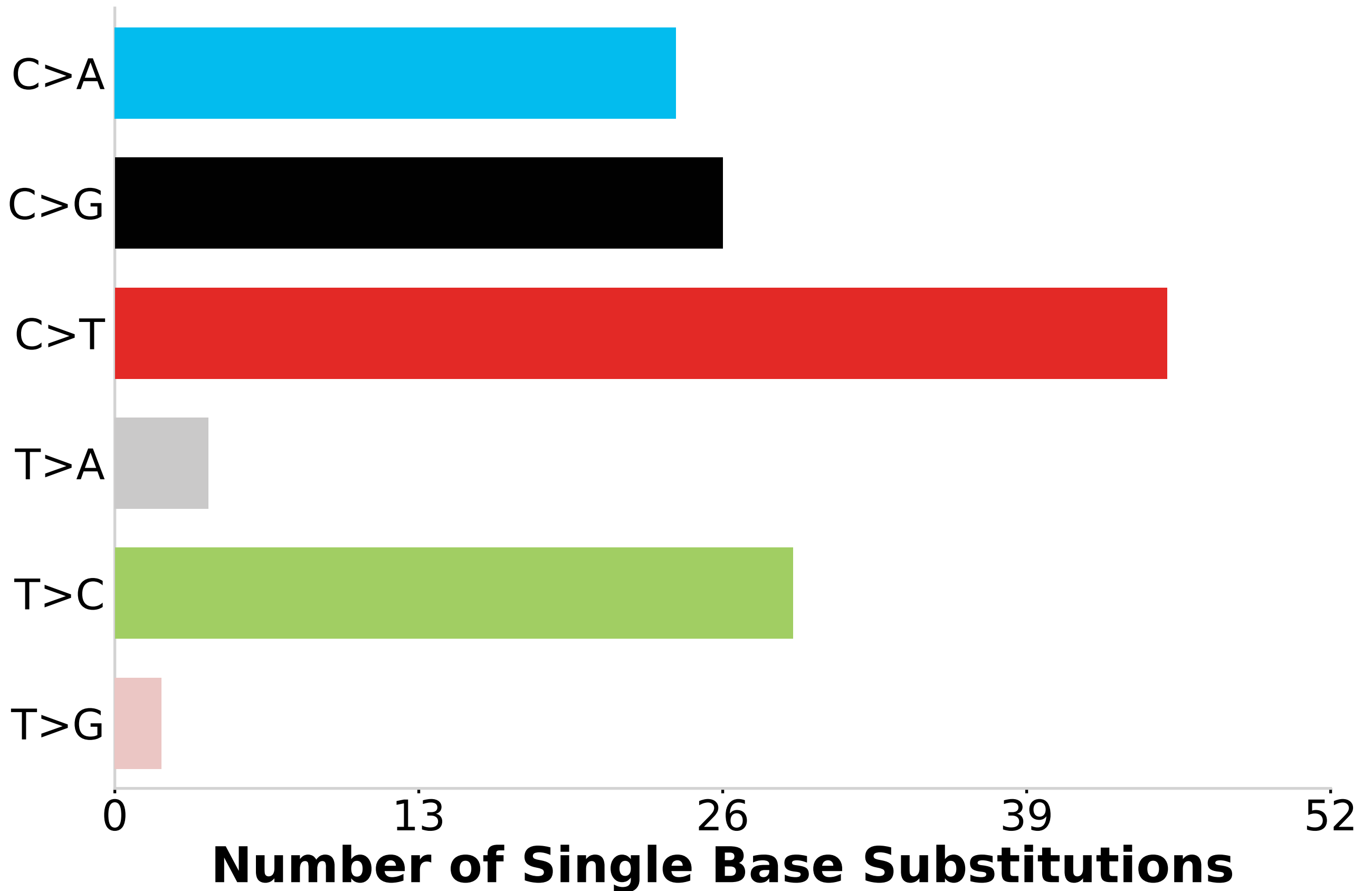
TCGA-E7-A678-01A-11D-A30E-08: 60 subs



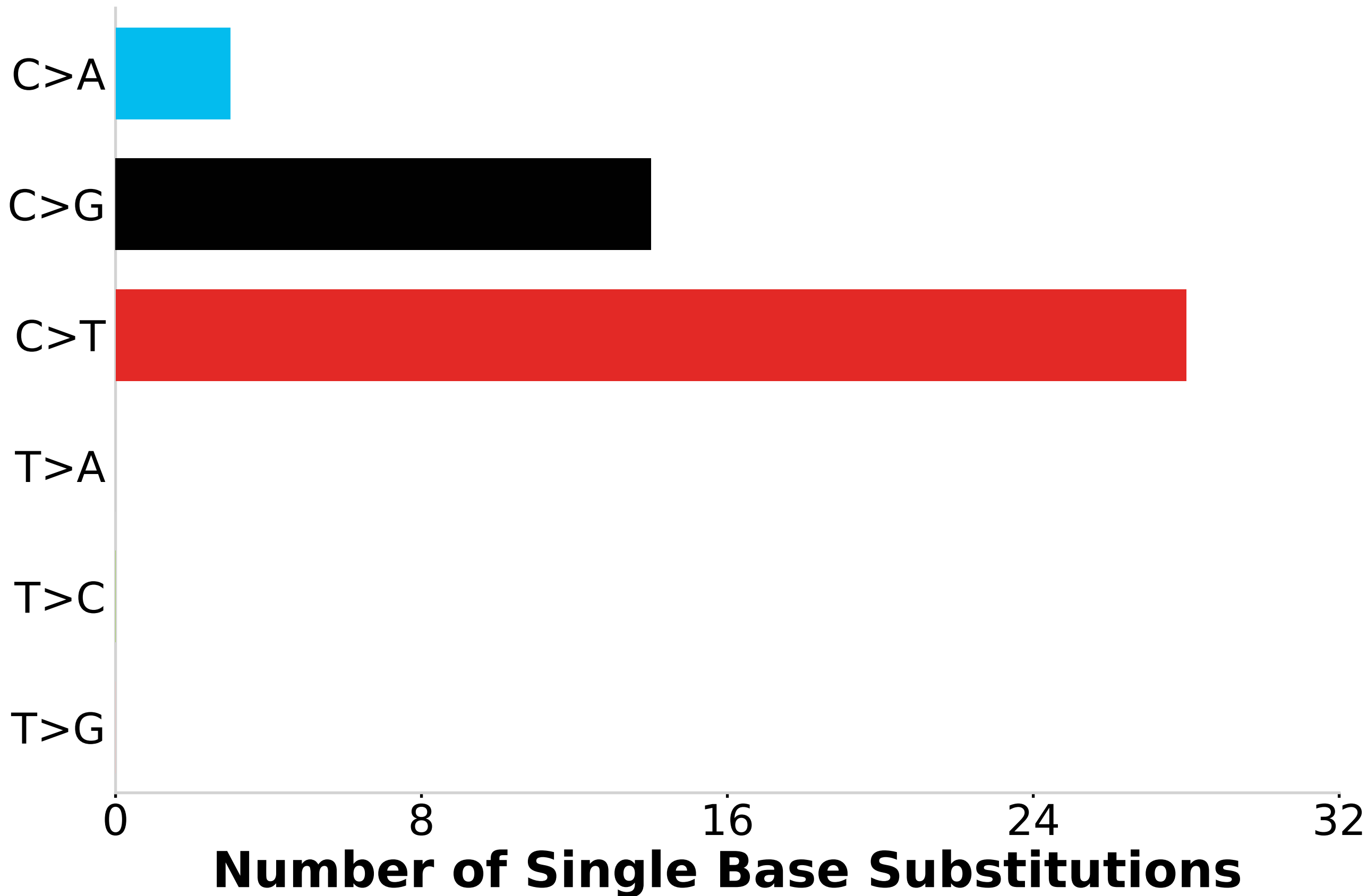
TCGA-E7-A6MD-01A-41D-A34U-08: 450 substitutions



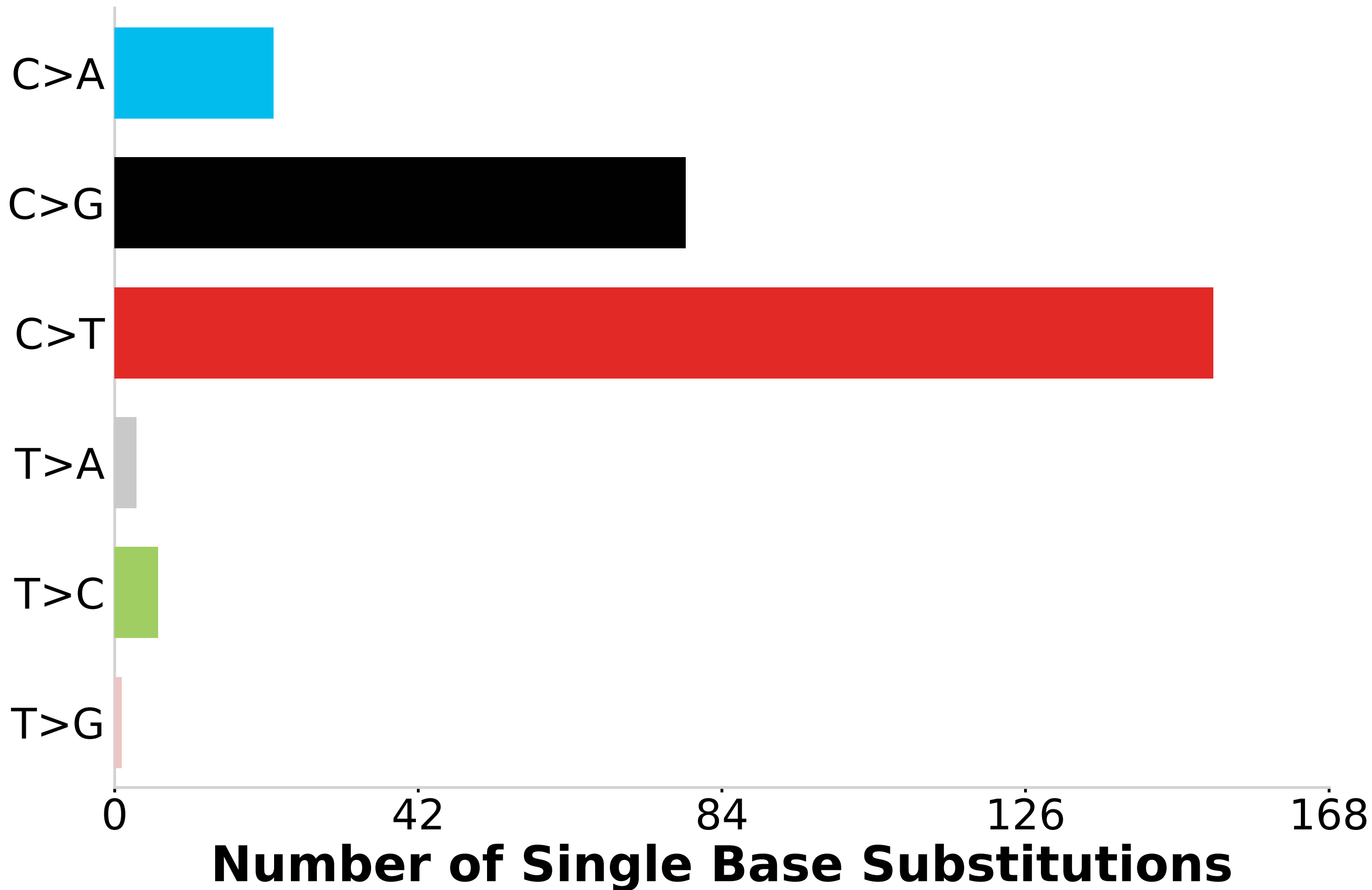
TCGA-E7-A6ME-01A-22D-A32B-08: 130 sub



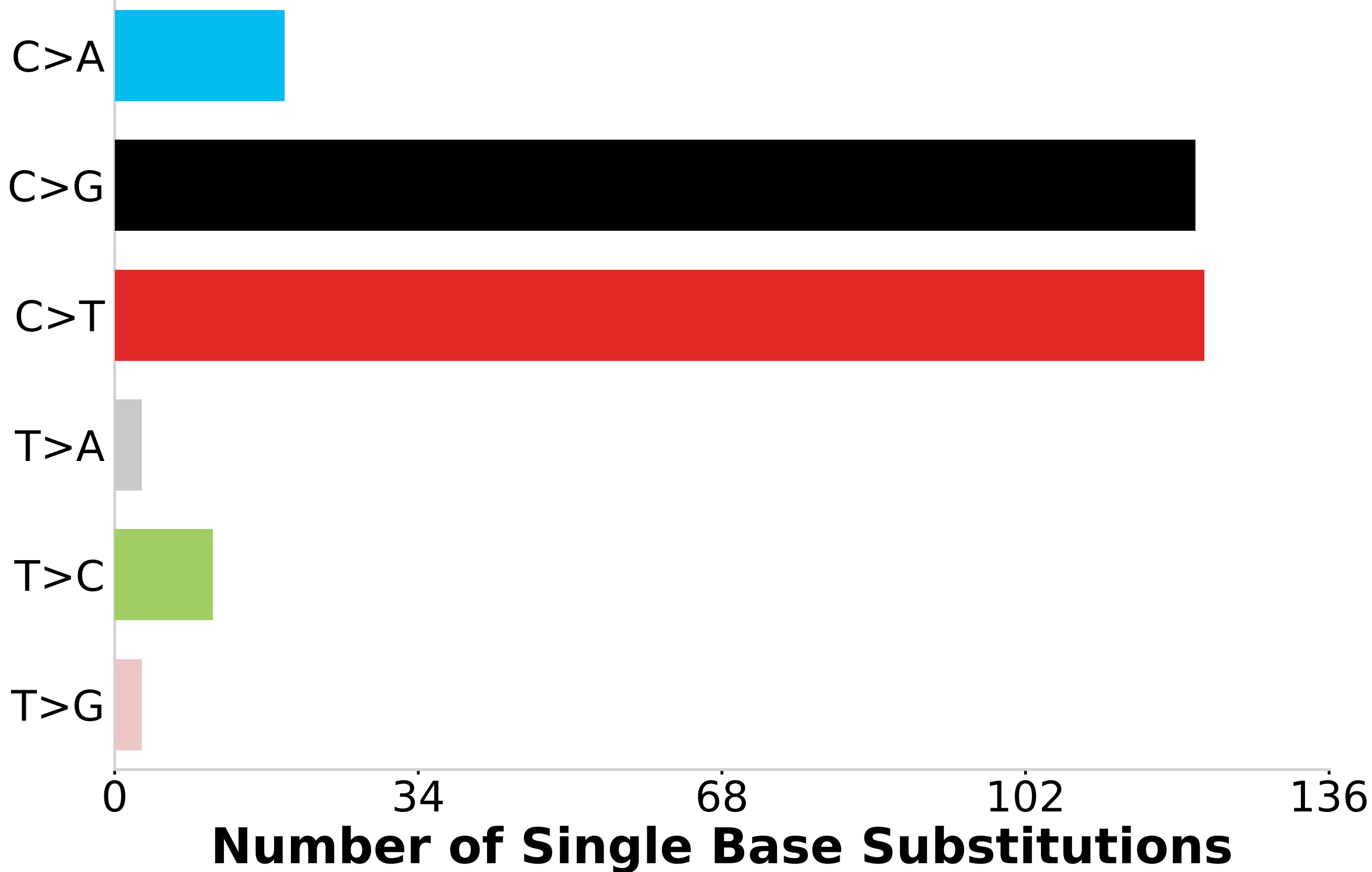
TCGA-E7-A6MF-01A-12D-A32B-08: 45 subs



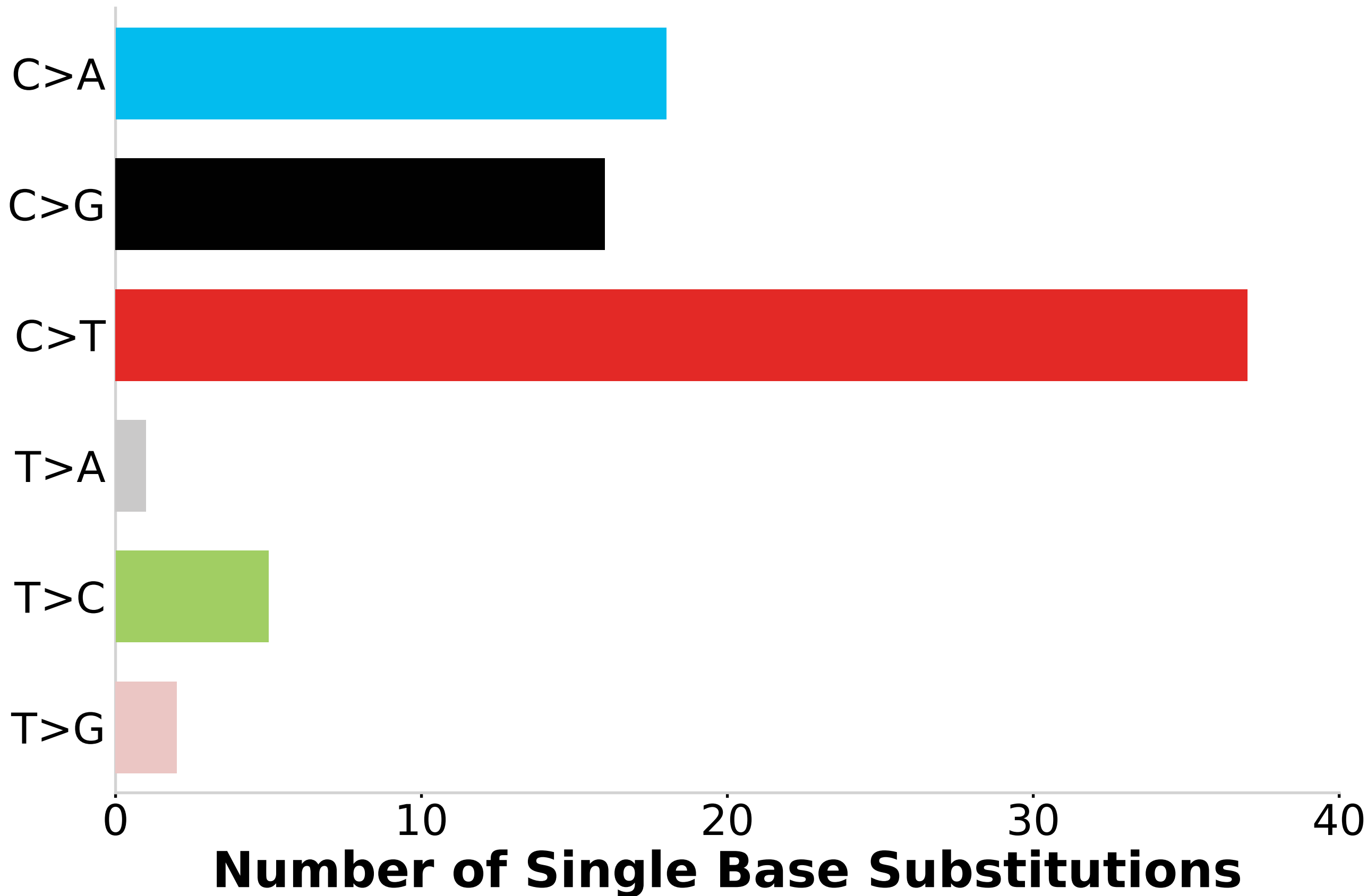
TCGA-E7-A7DU-01A-11D-A32B-08: 263 sub



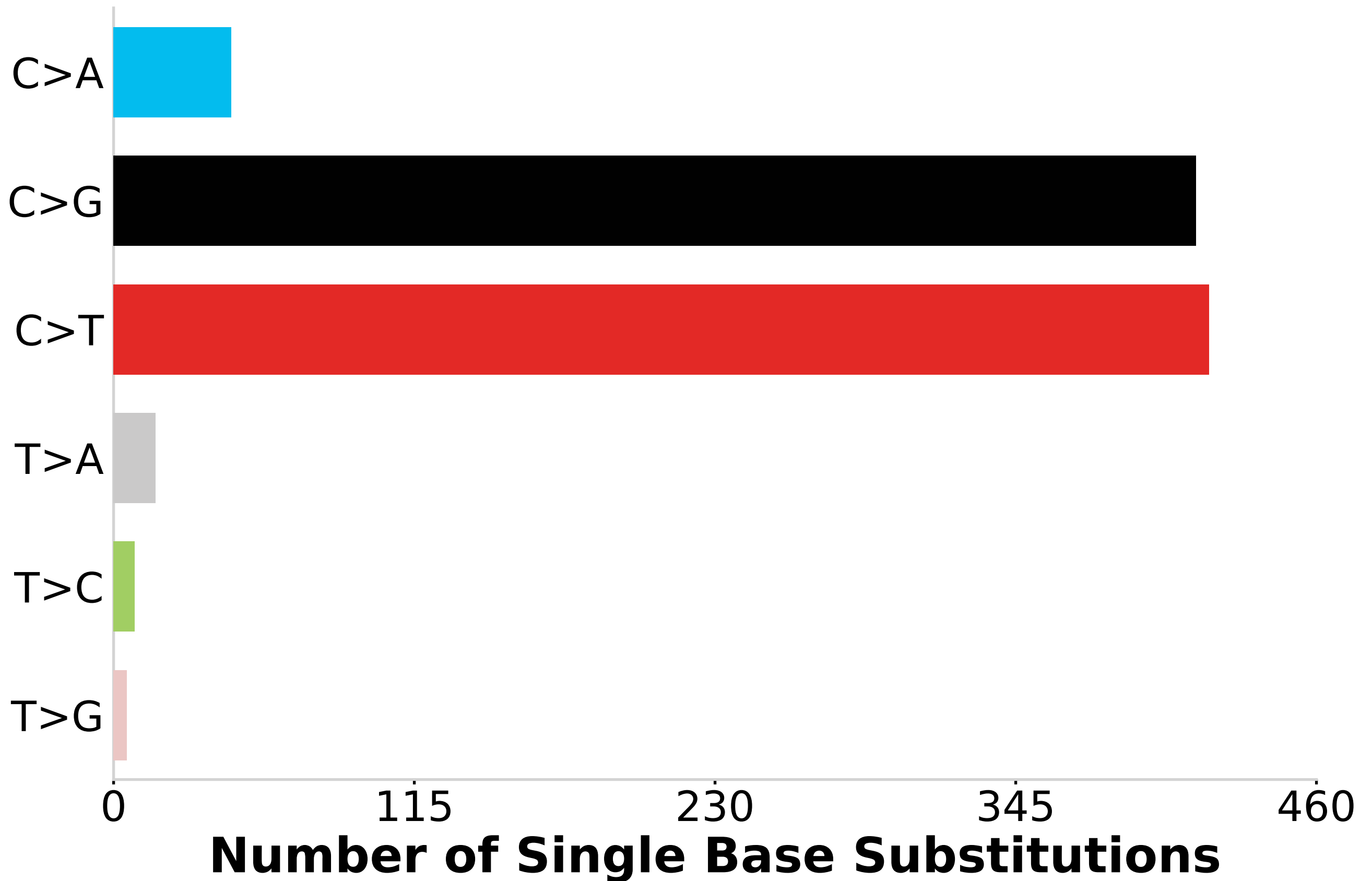
TCGA-E7-A7DV-01A-11D-A339-08: 279 sub



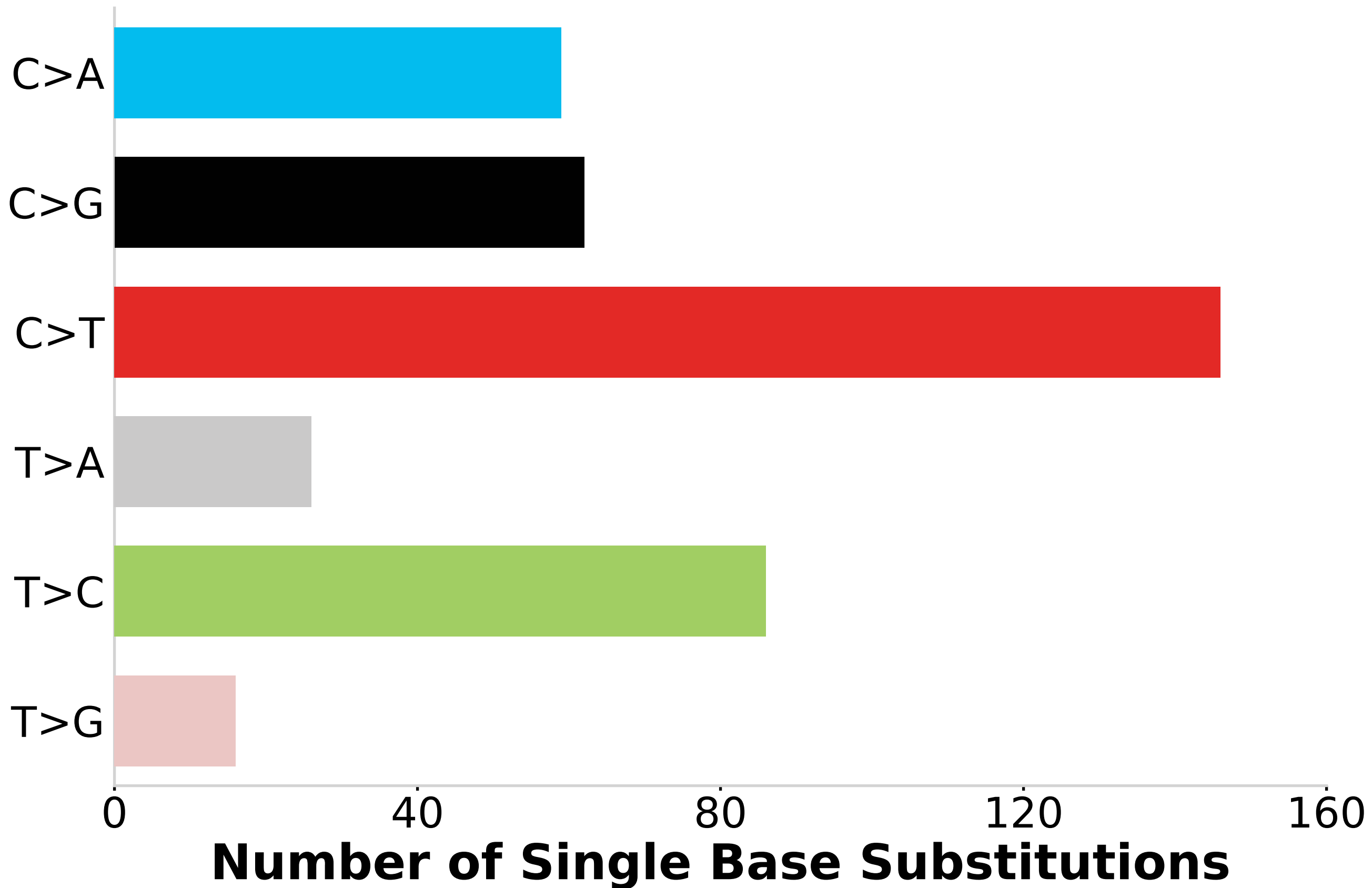
TCGA-E7-A7PW-01A-11D-A34U-08: 79 subs



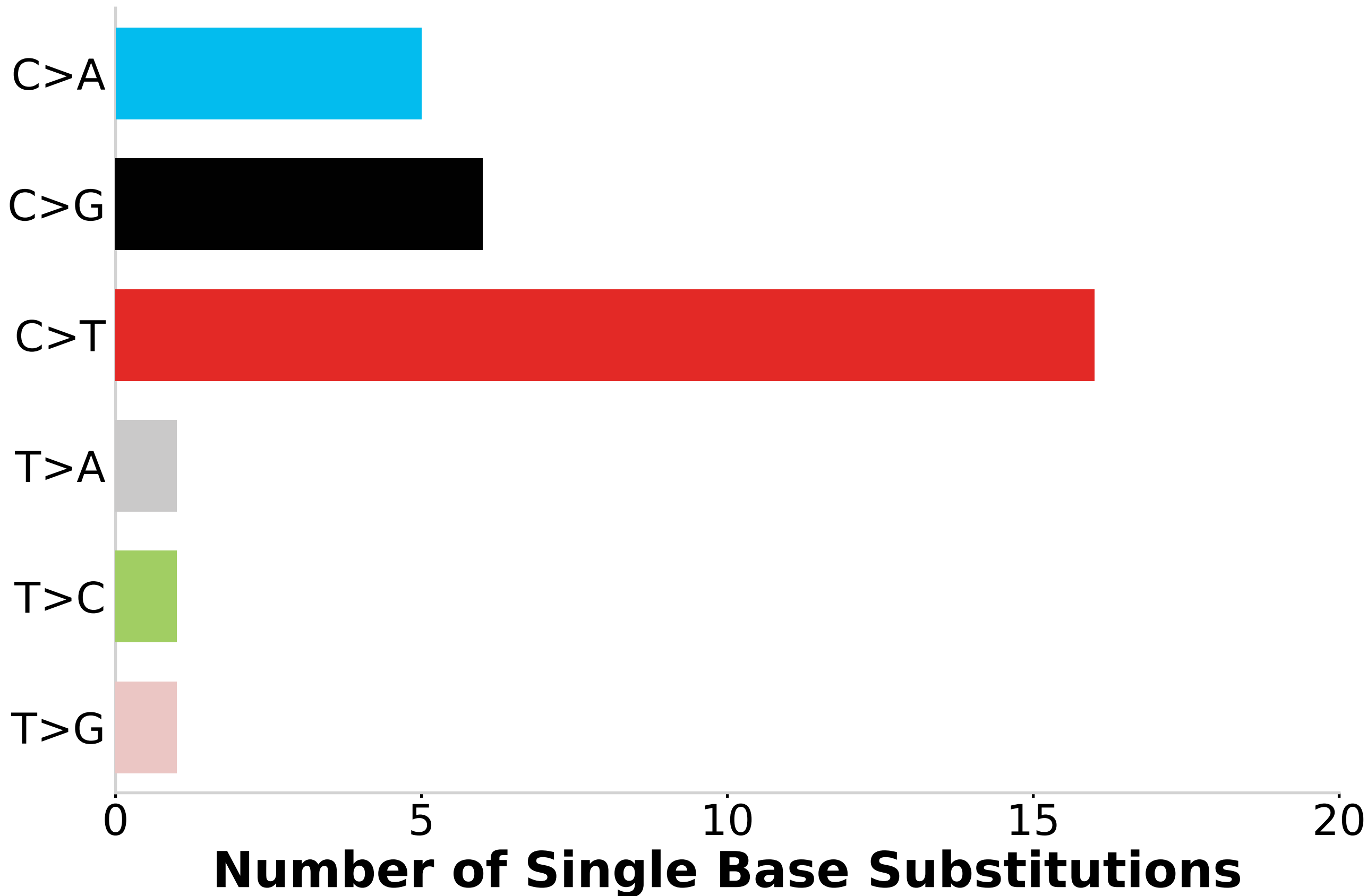
TCGA-E7-A7XN-01A-11D-A34U-08: 907 sub



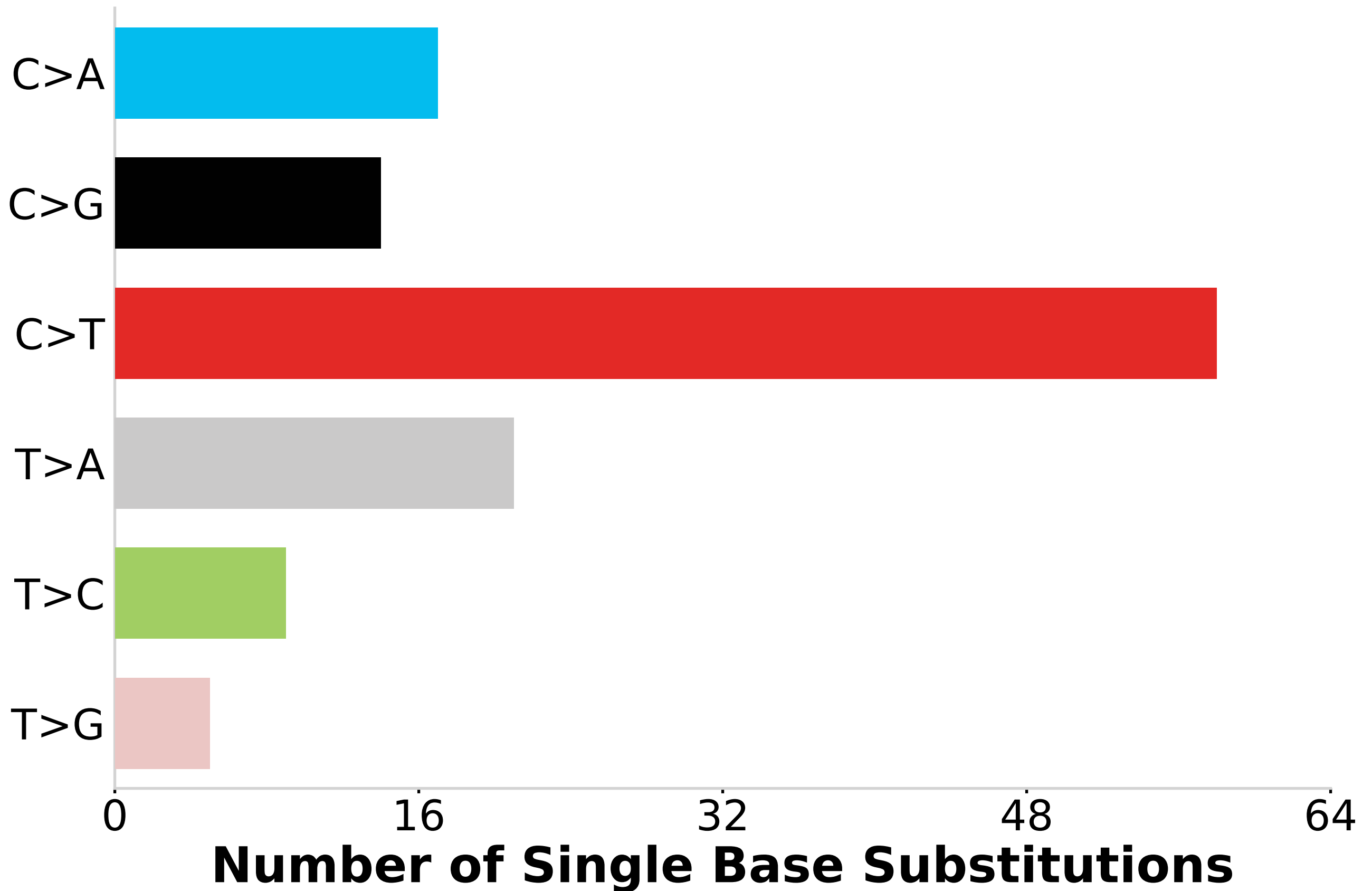
TCGA-E7-A85H-01A-11D-A34U-08: 395 sub



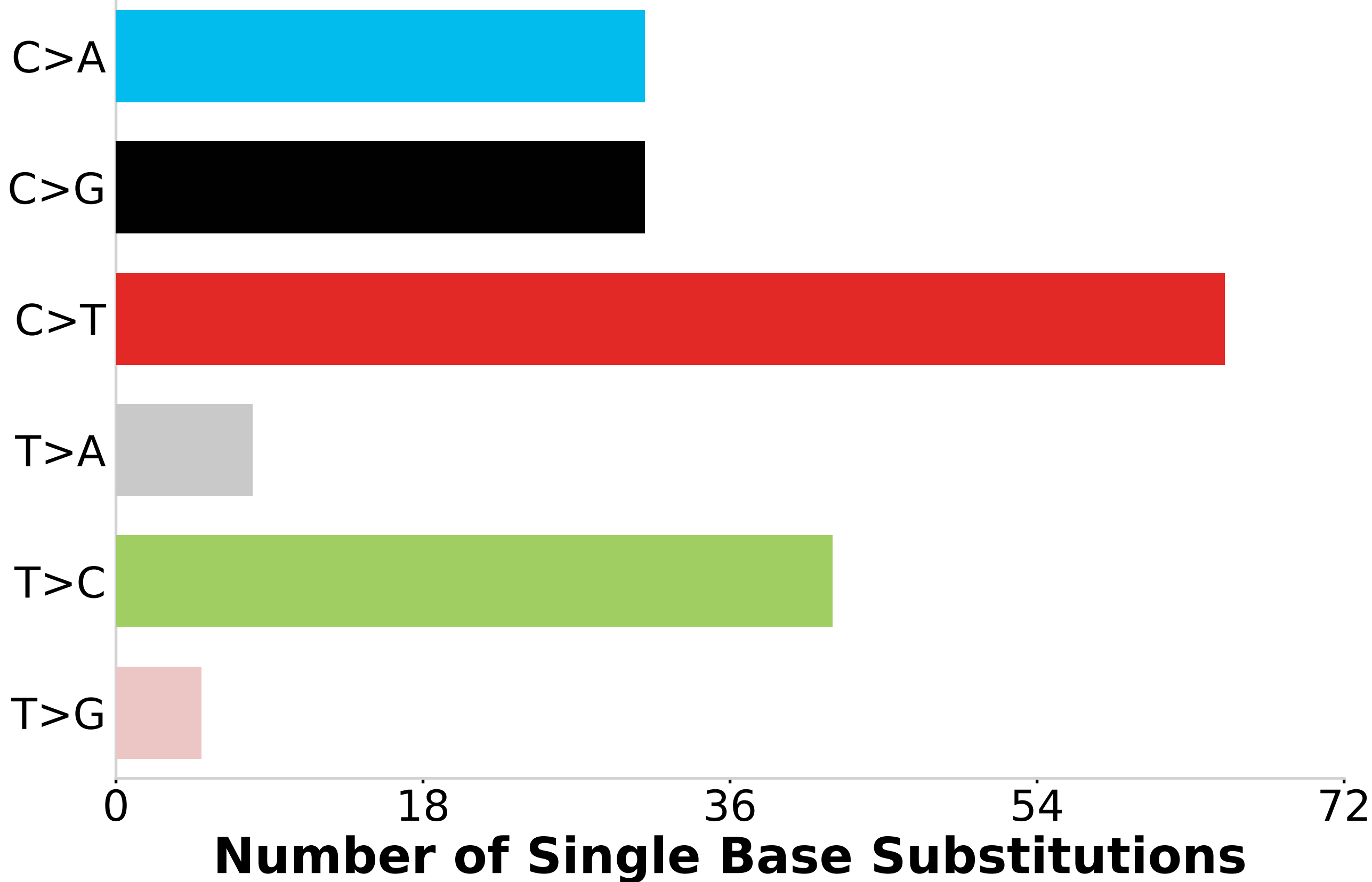
TCGA-E7-A807-01A-11D-A364-08: 30 subs



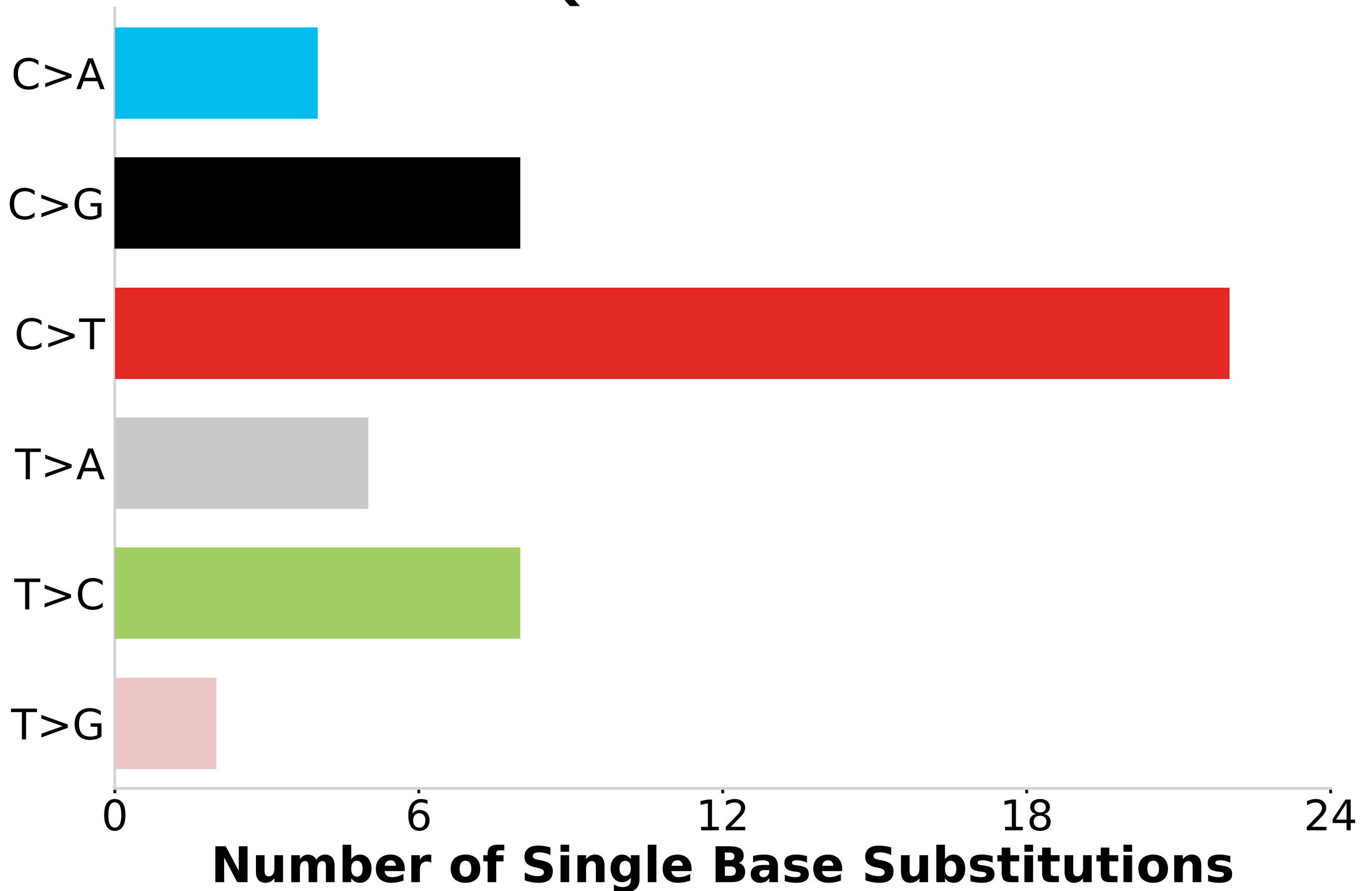
TCGA-E7-A808-01A-11D-A364-08: 124 sub



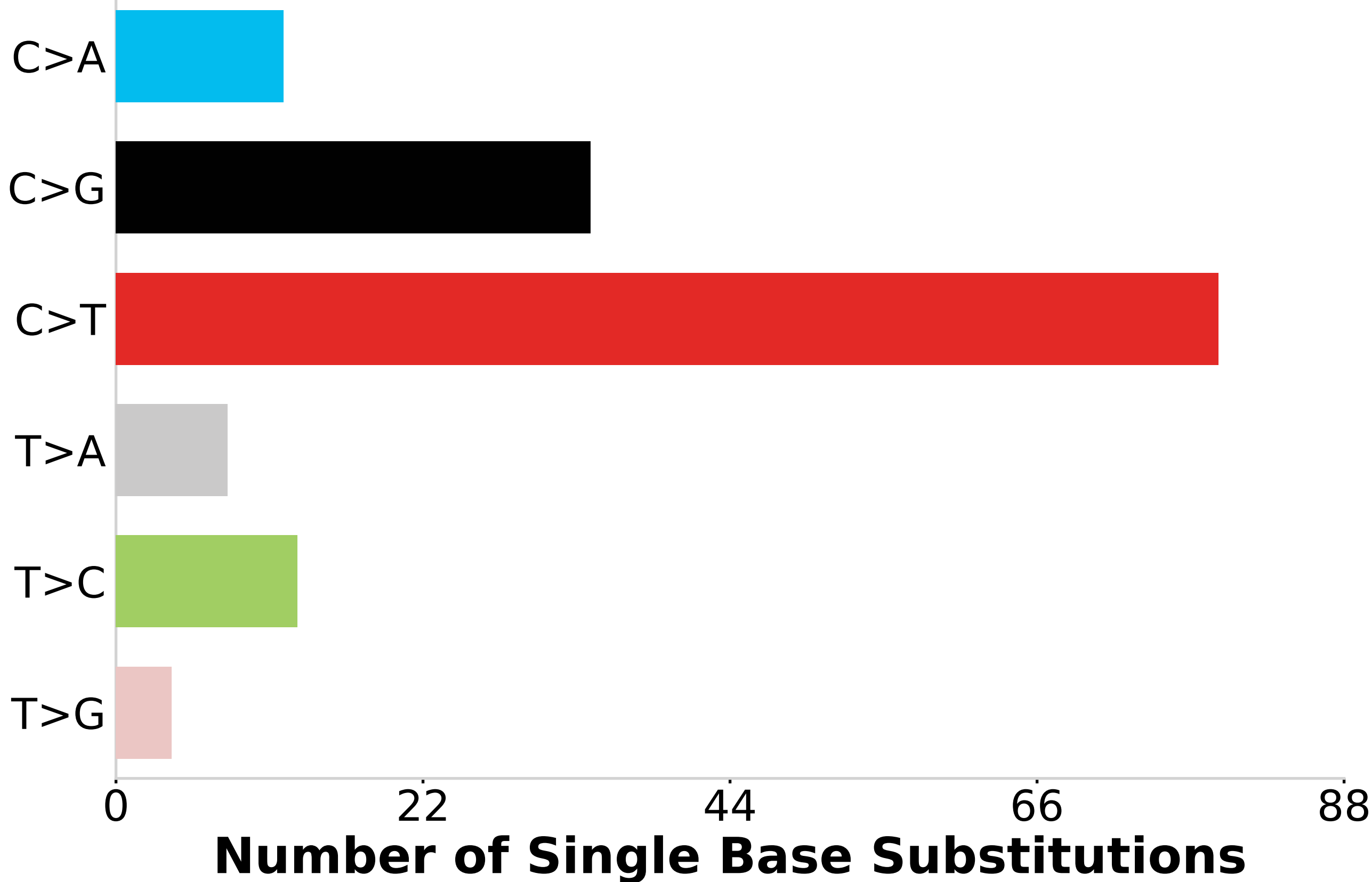
TCGA-E7-A97P-01A-11D-A38G-08: 182 sub



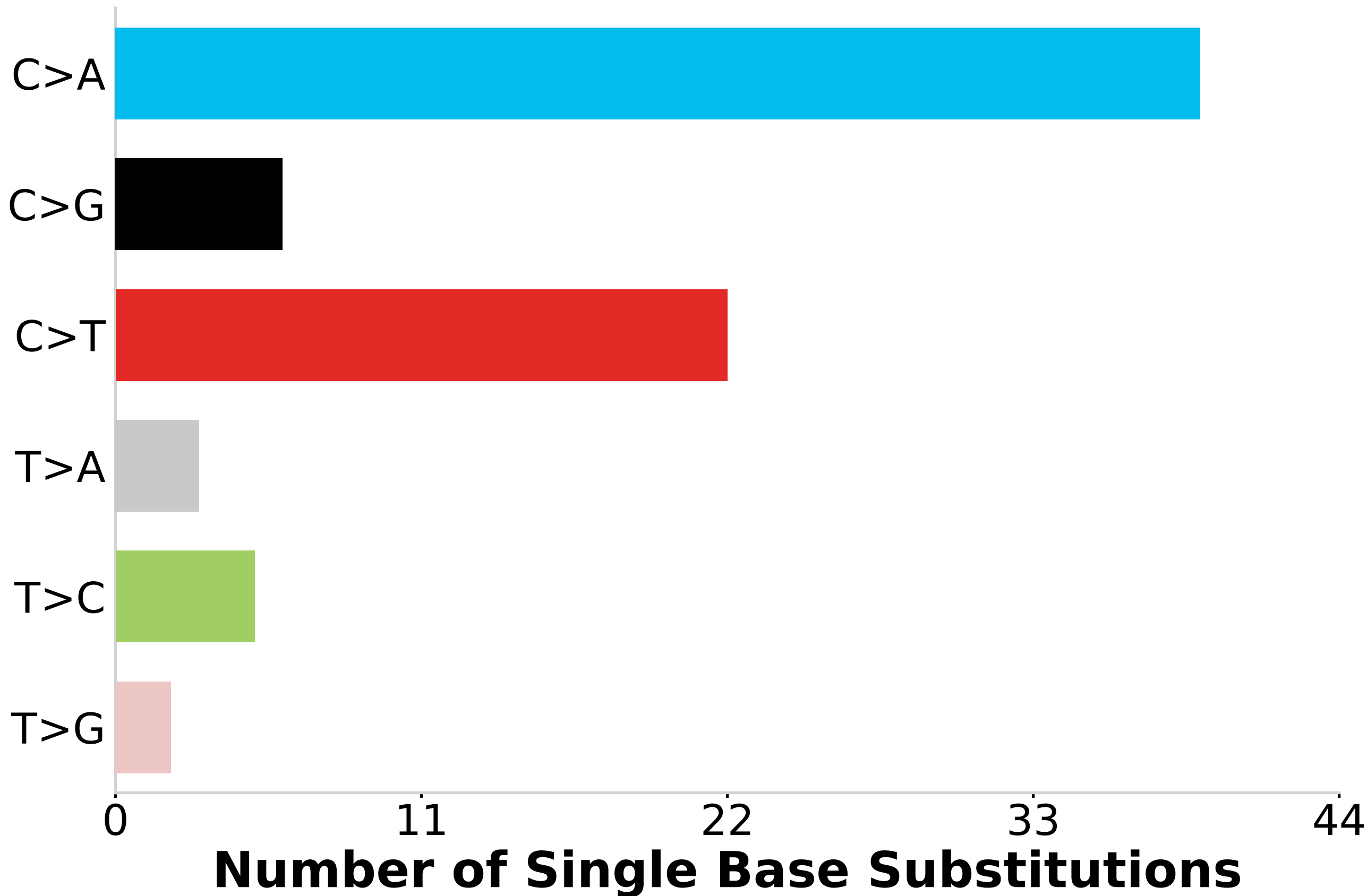
TCGA-E7-A97Q-01A-11D-A38G-08: 49 subs



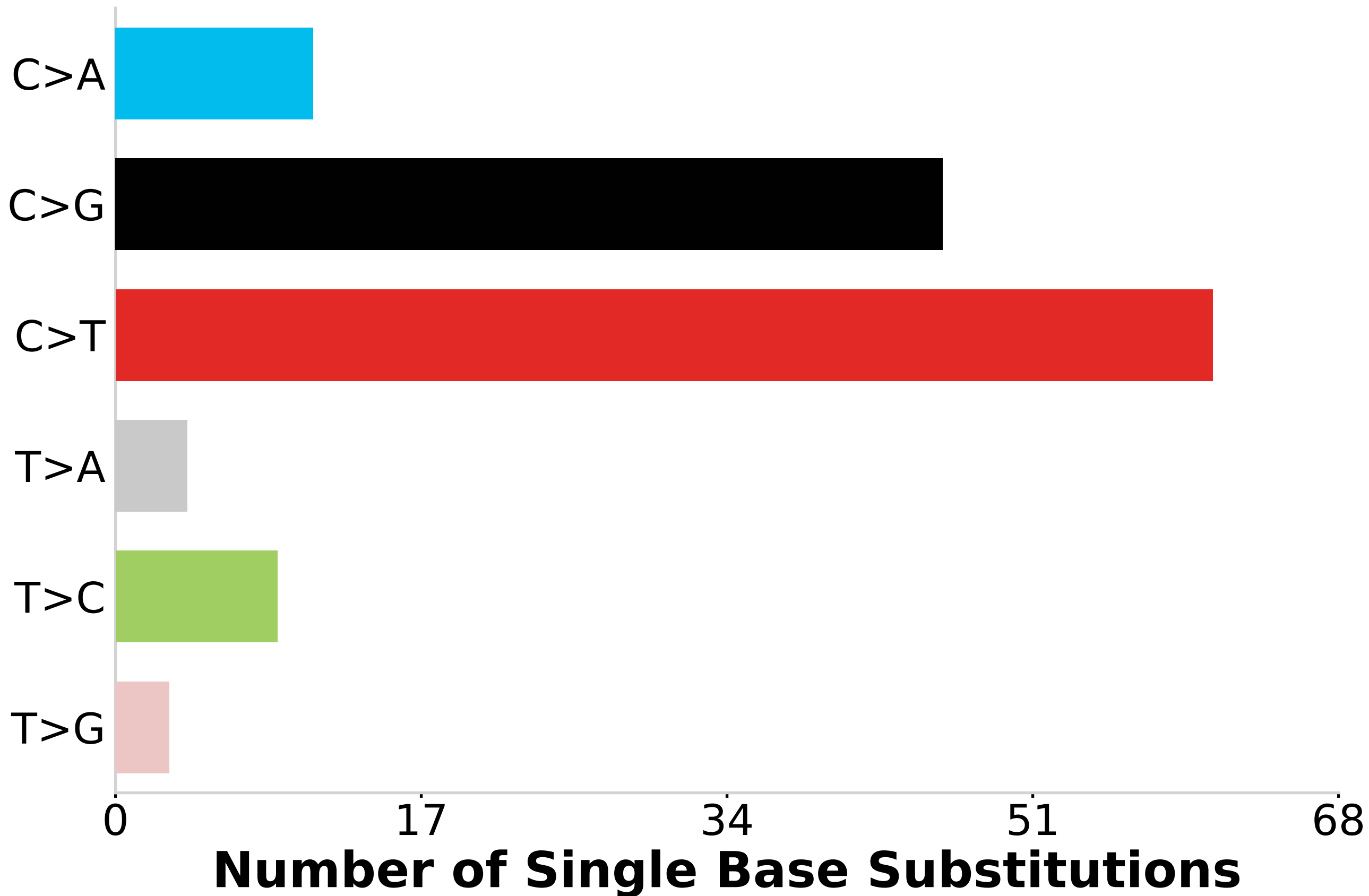
TCGA-FD-A3B3-01A-12D-A202-08: 150 sub



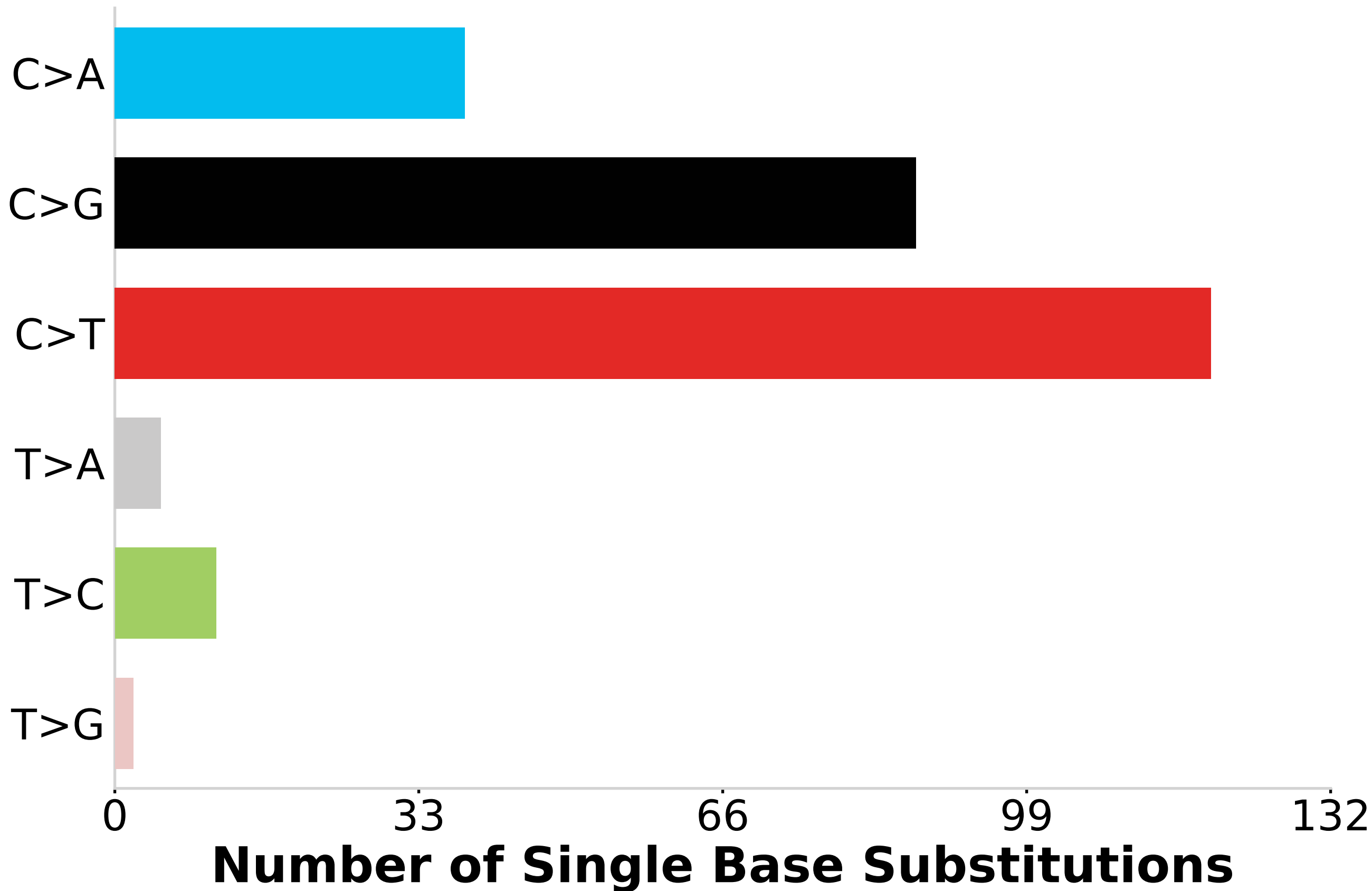
TCGA-FD-A3B4-01A-12D-A202-08: 77 subs



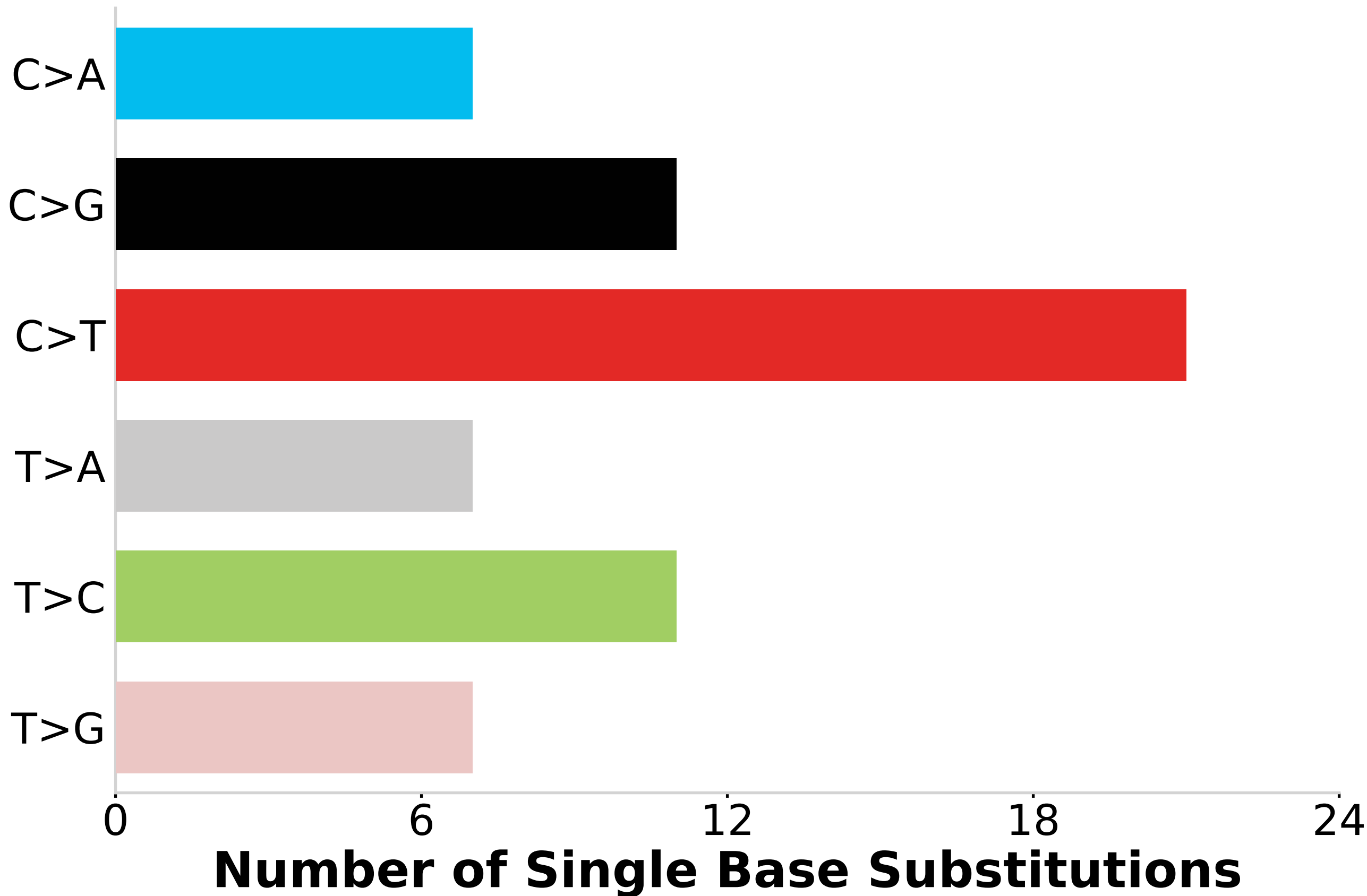
TCGA-FD-A3B5-01A-11D-A20D-08: 134 sub



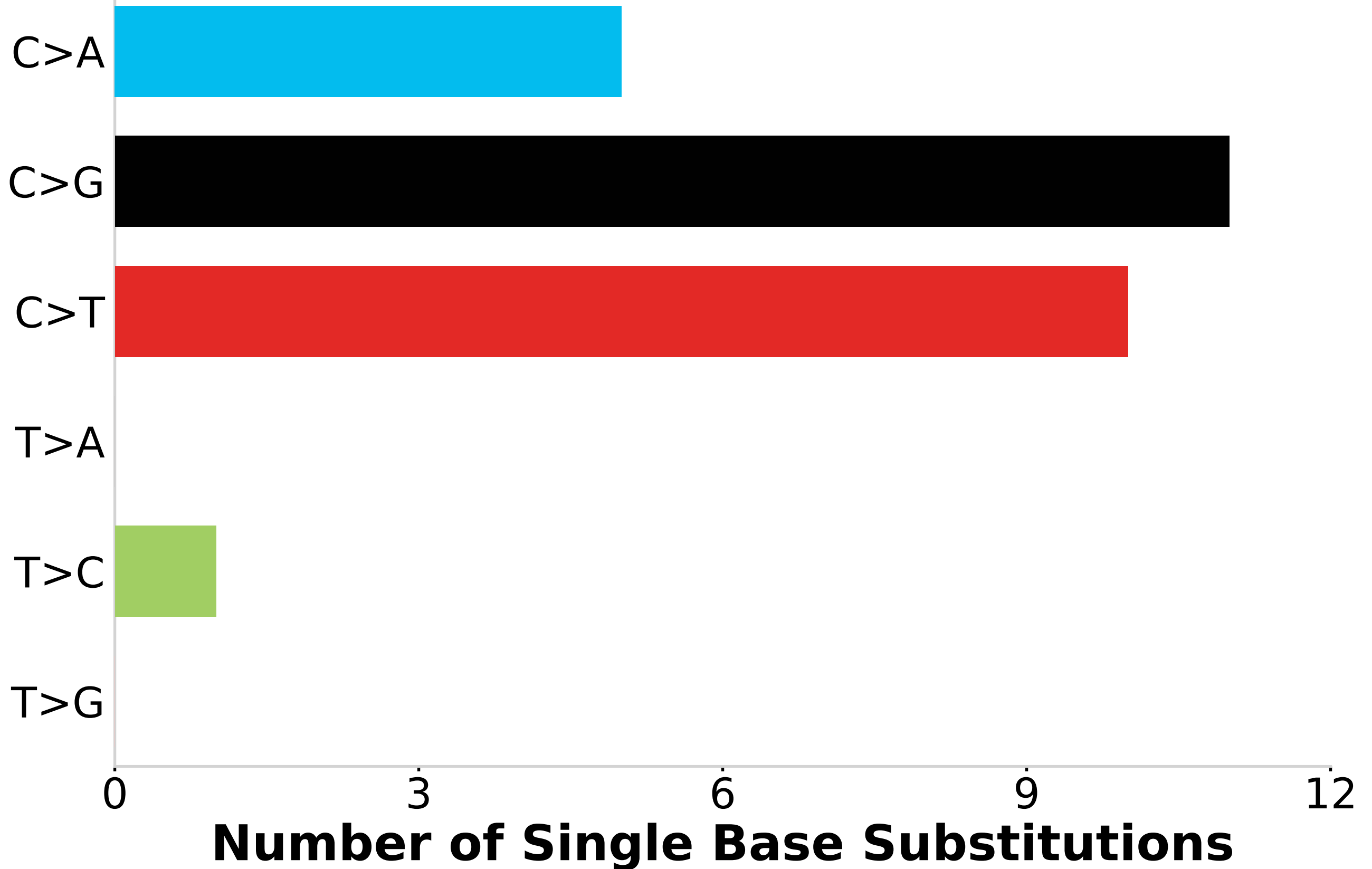
TCGA-FD-A3B6-01A-21D-A20D-08: 262 sub



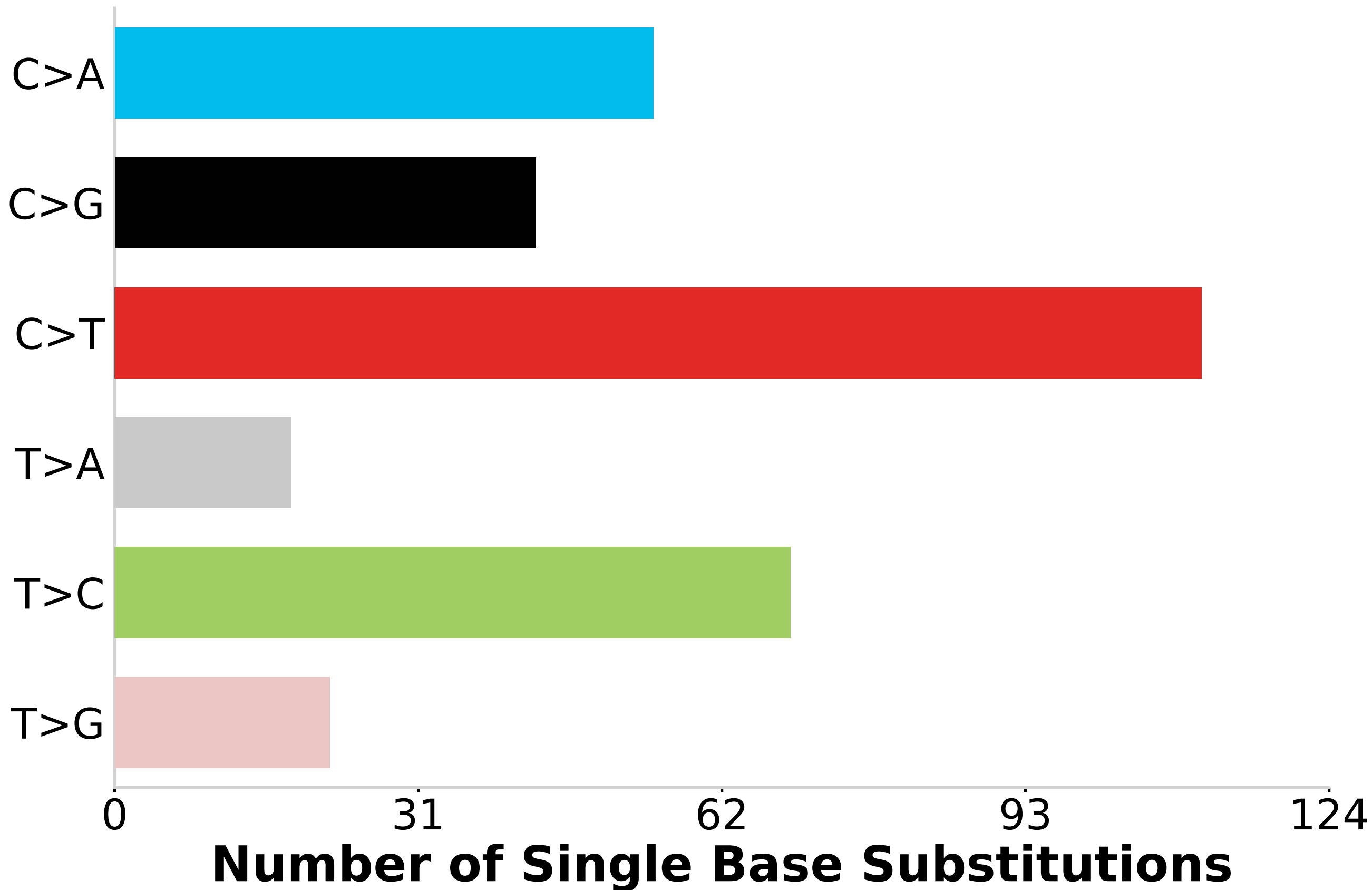
TCGA-FD-A3B7-01A-31D-A20D-08: 64 subs



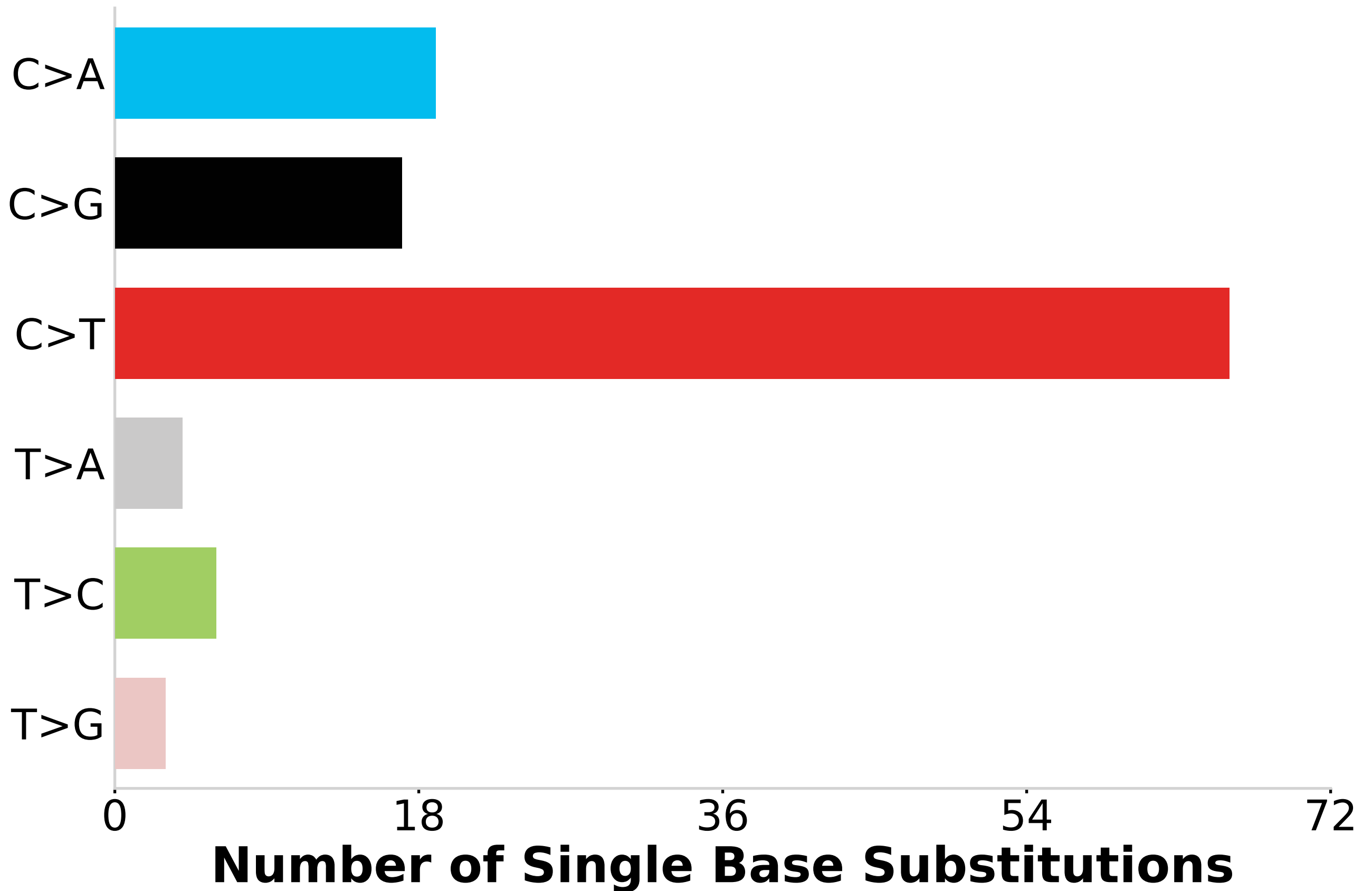
TCGA-FD-A3B8-01A-31D-A20D-08: 27 subs



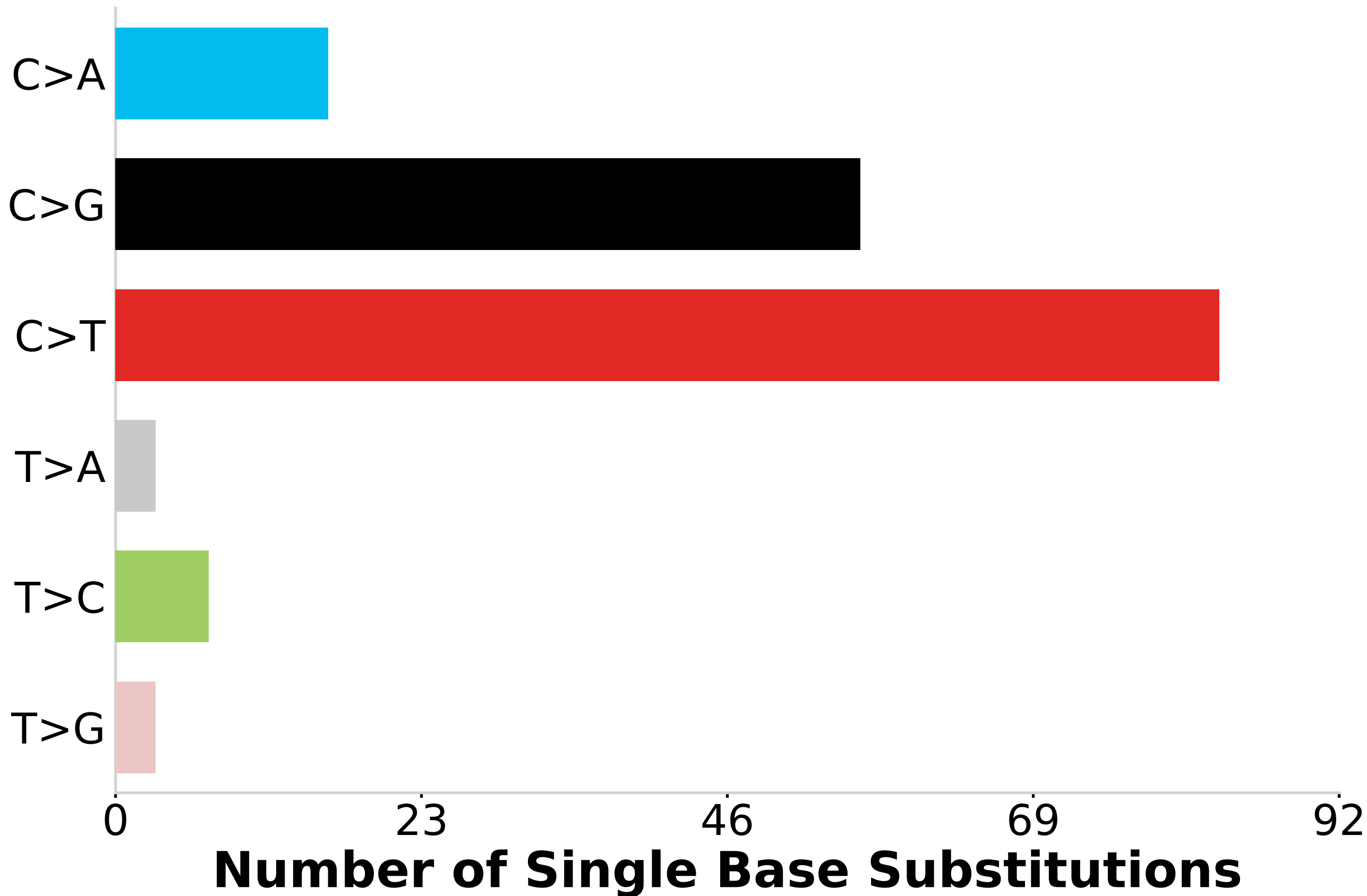
TCGA-FD-A3N5-01A-11D-A21A-08: 318 sub



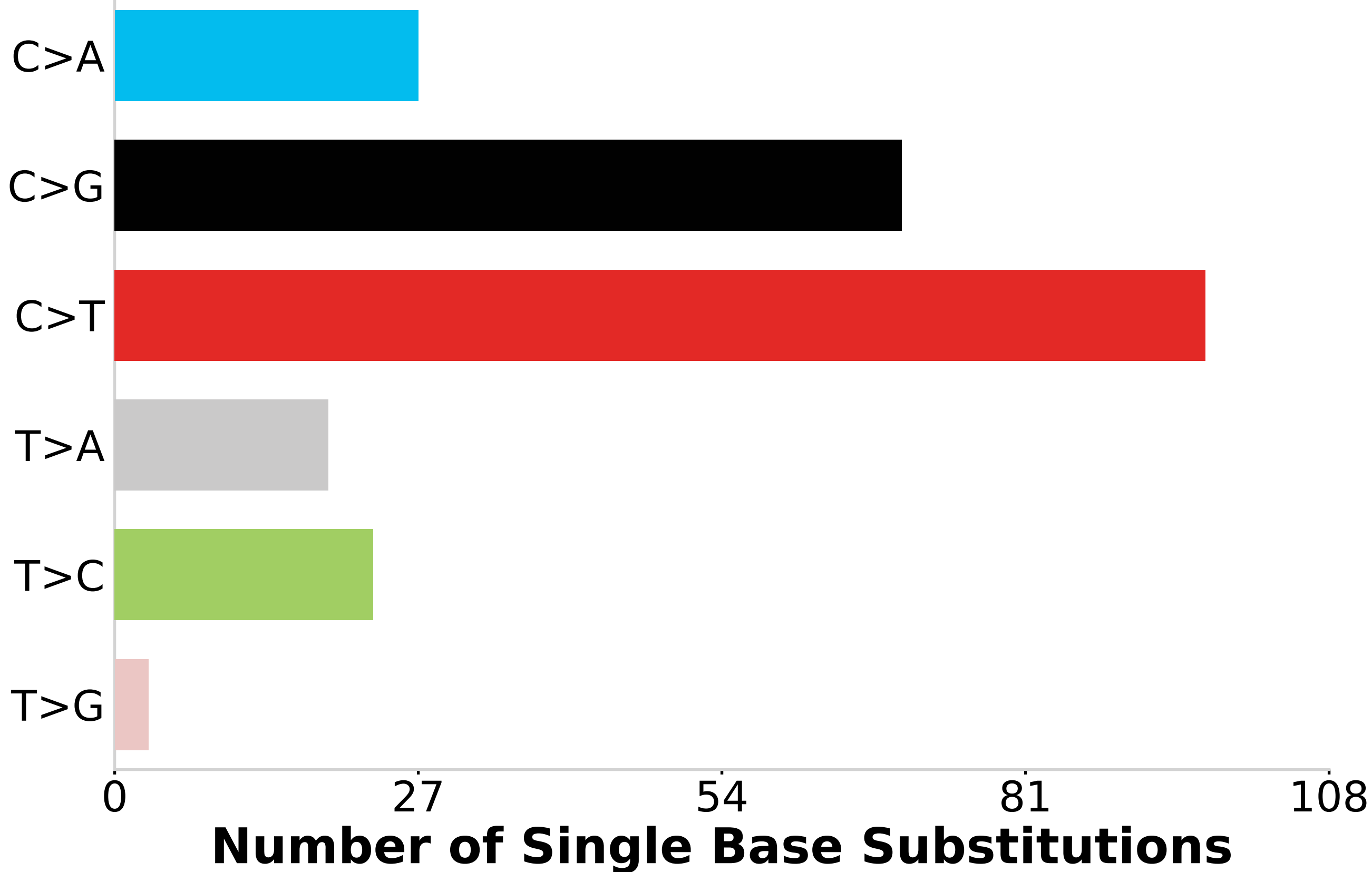
TCGA-FD-A3N6-01A-11D-A21A-08: 115 sub



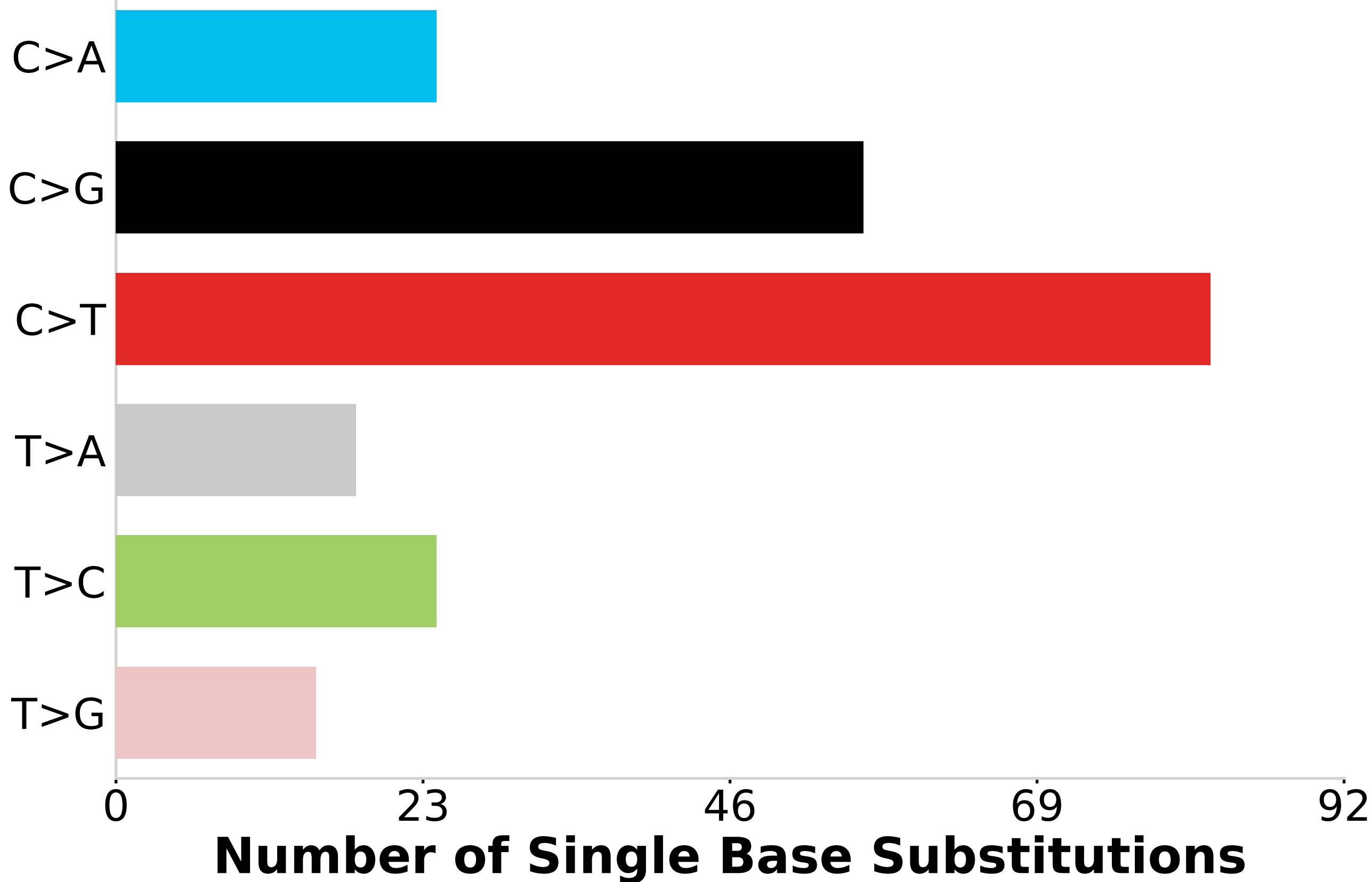
TCGA-FD-A3NA-01A-11D-A21A-08: 168 sub



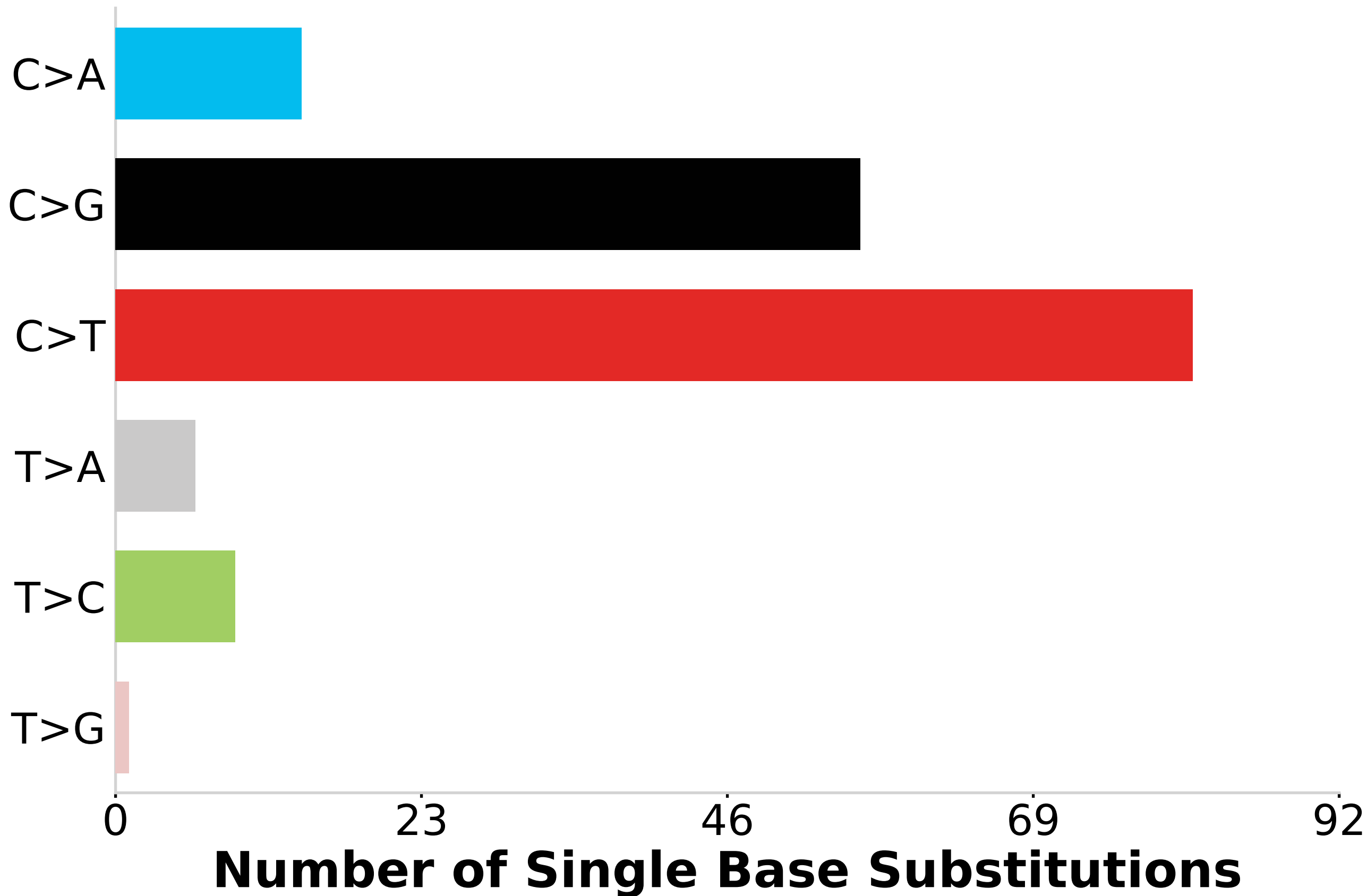
TCGA-FD-A3SJ-01A-12D-A22Z-08: 239 subs



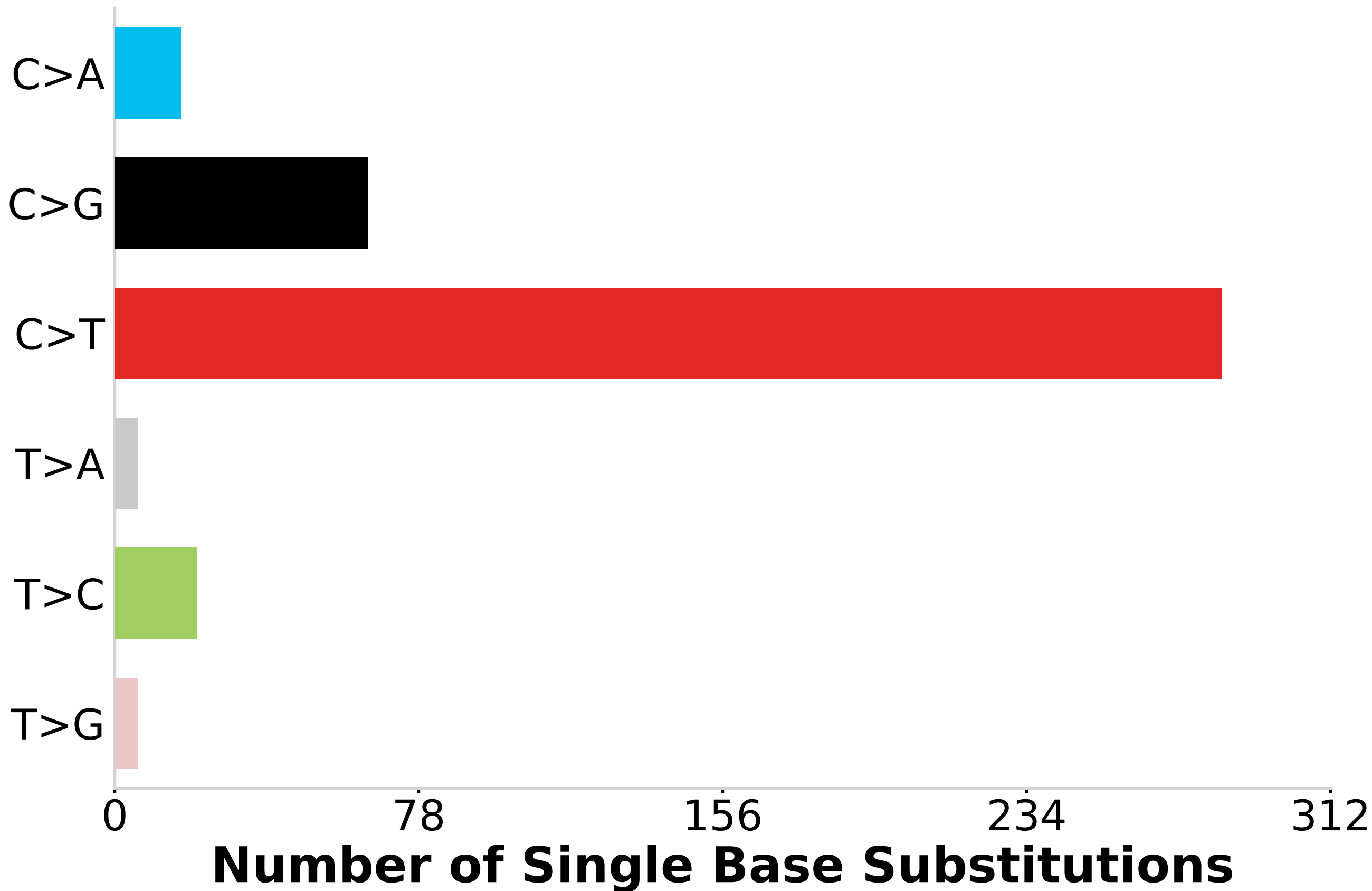
TCGA-FD-A3SL-01A-21D-A22Z-08: 219 sub



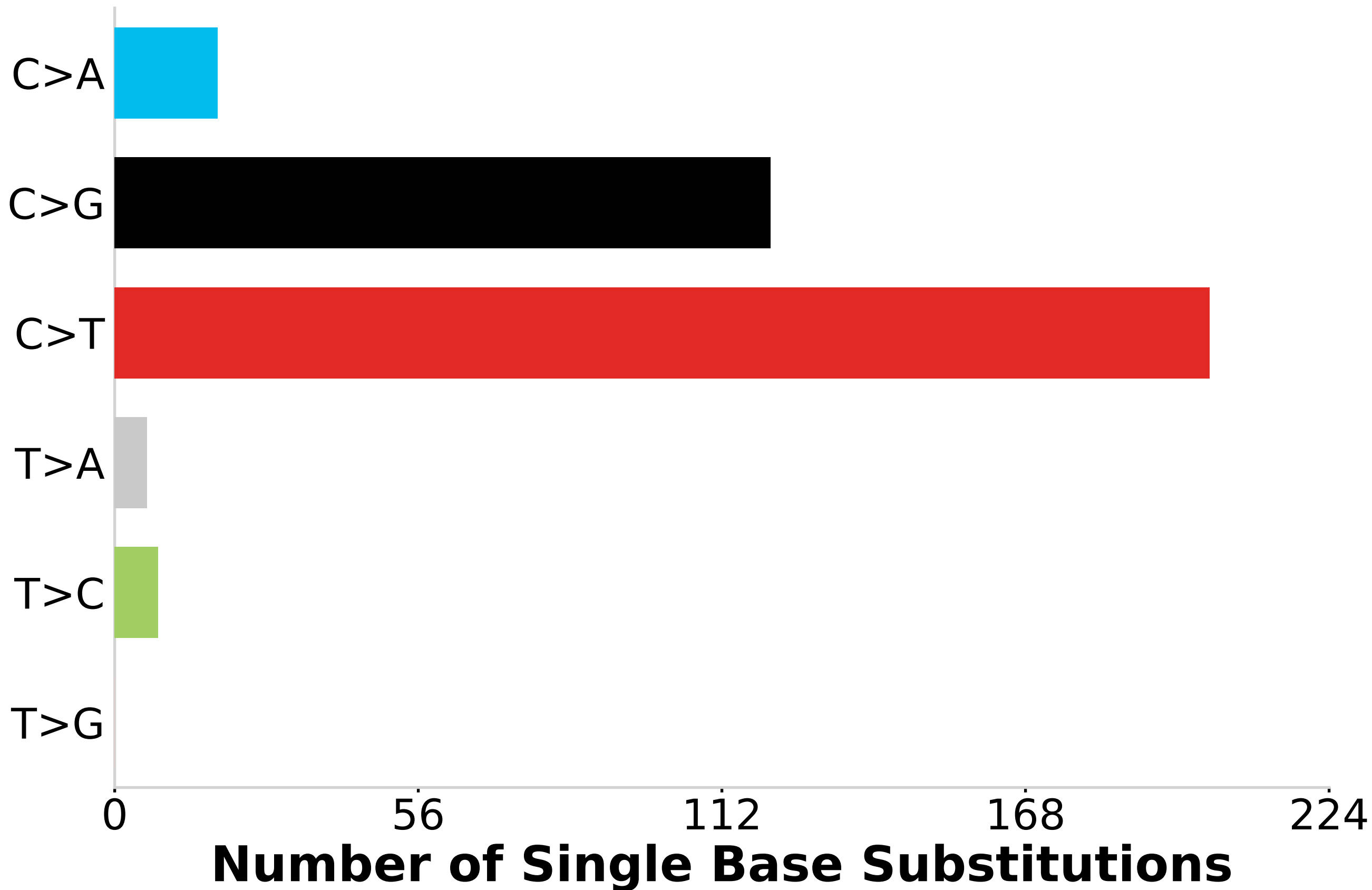
TCGA-FD-A3SM-01A-11D-A22Z-08: 167 substitutions



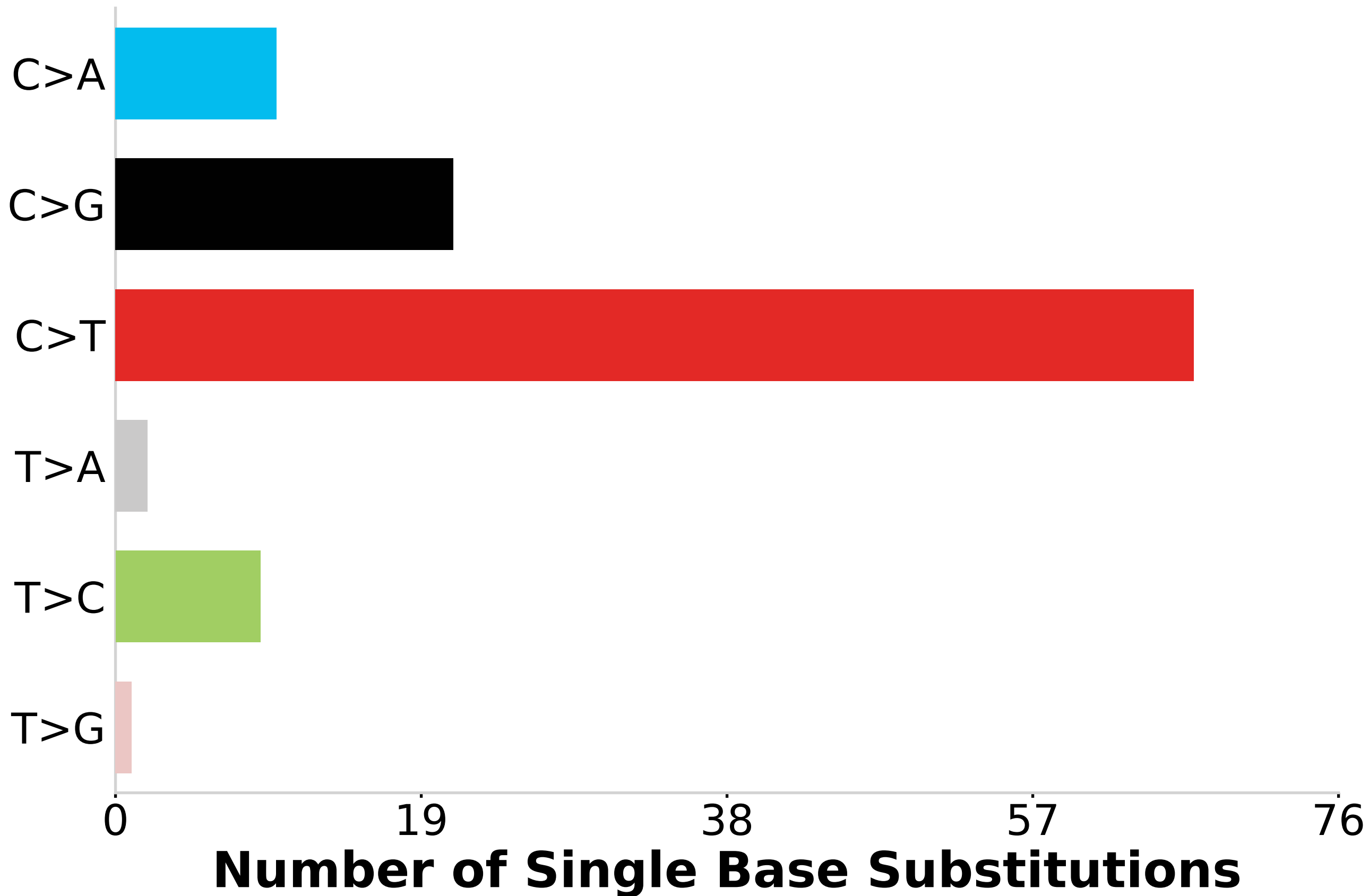
TCGA-FD-A3SN-01A-12D-A22Z-08: 399 sub



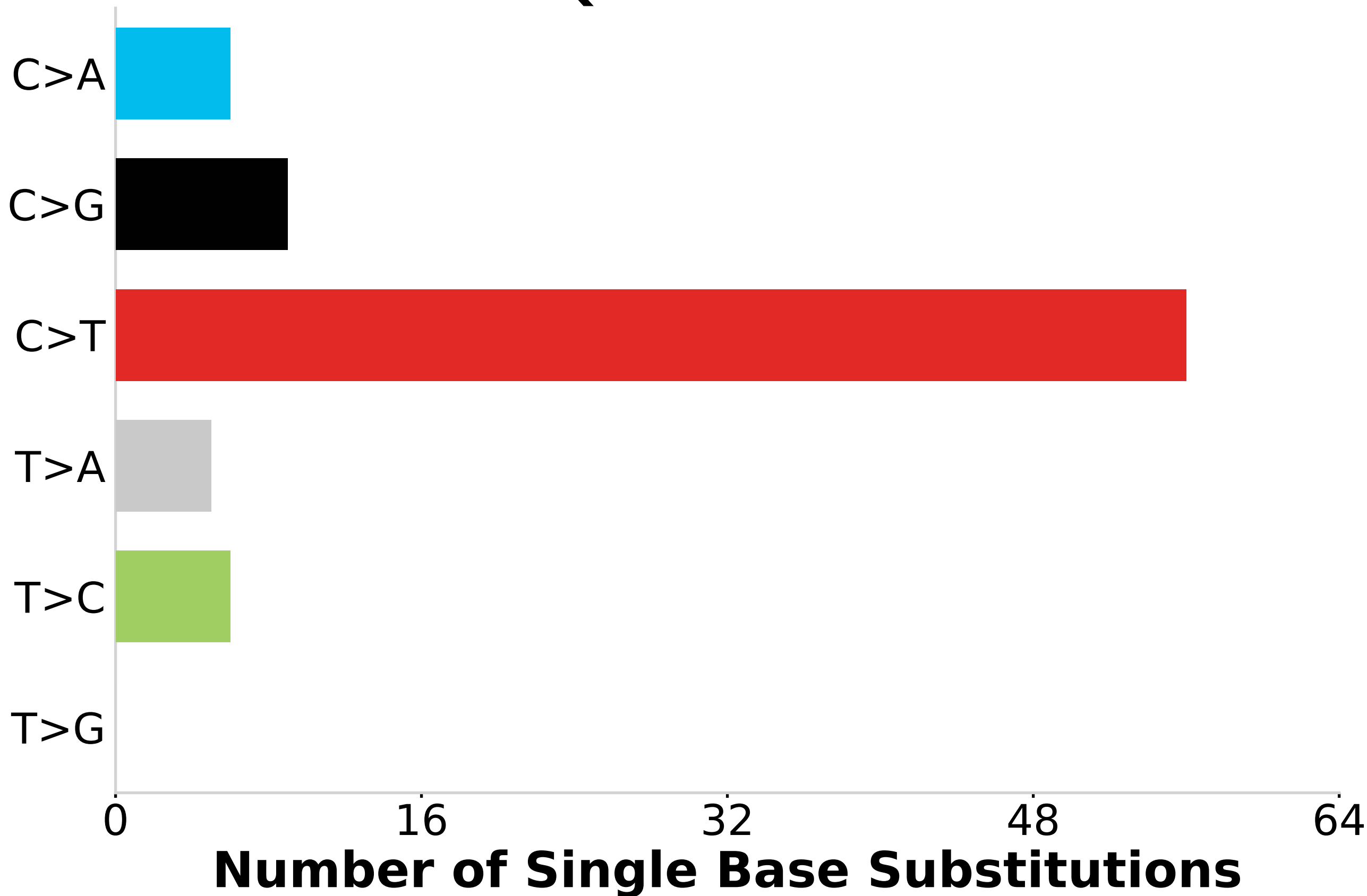
TCGA-FD-A3SO-01A-11D-A22Z-08: 356 sub



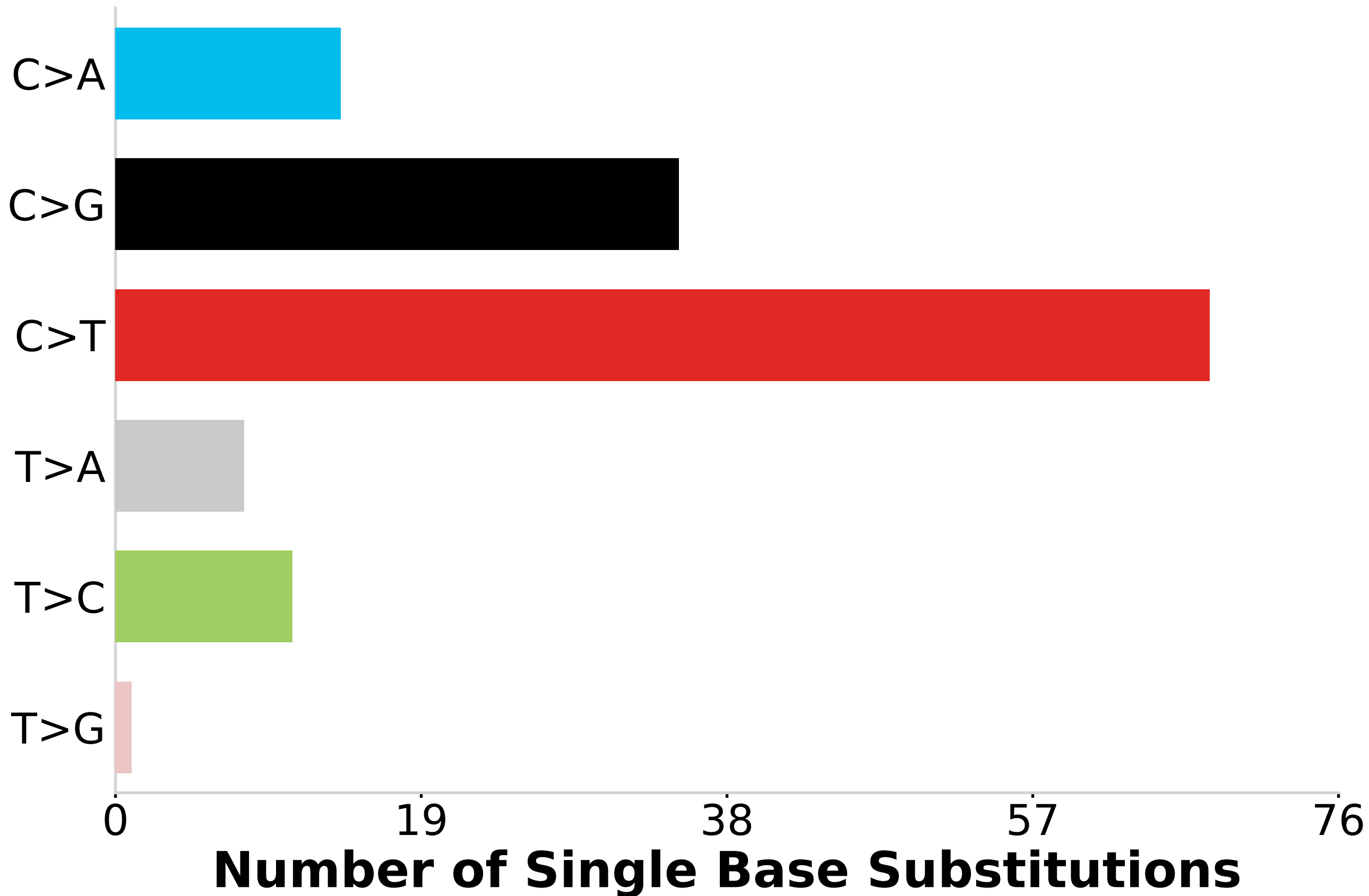
TCGA-FD-A3SP-01A-31D-A22Z-08: 110 sub



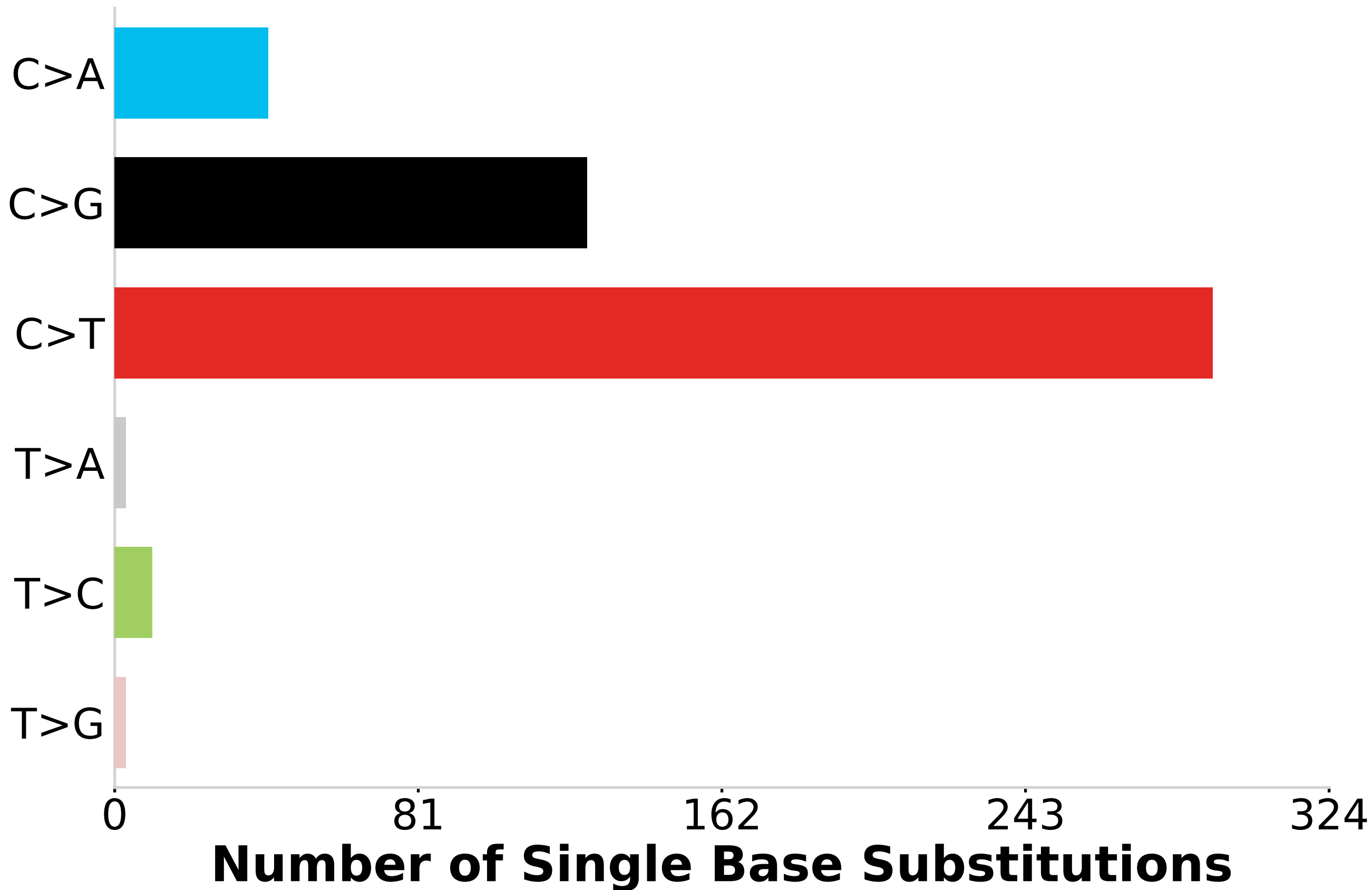
TCGA-FD-A3SQ-01A-21D-A22Z-08: 82 subs



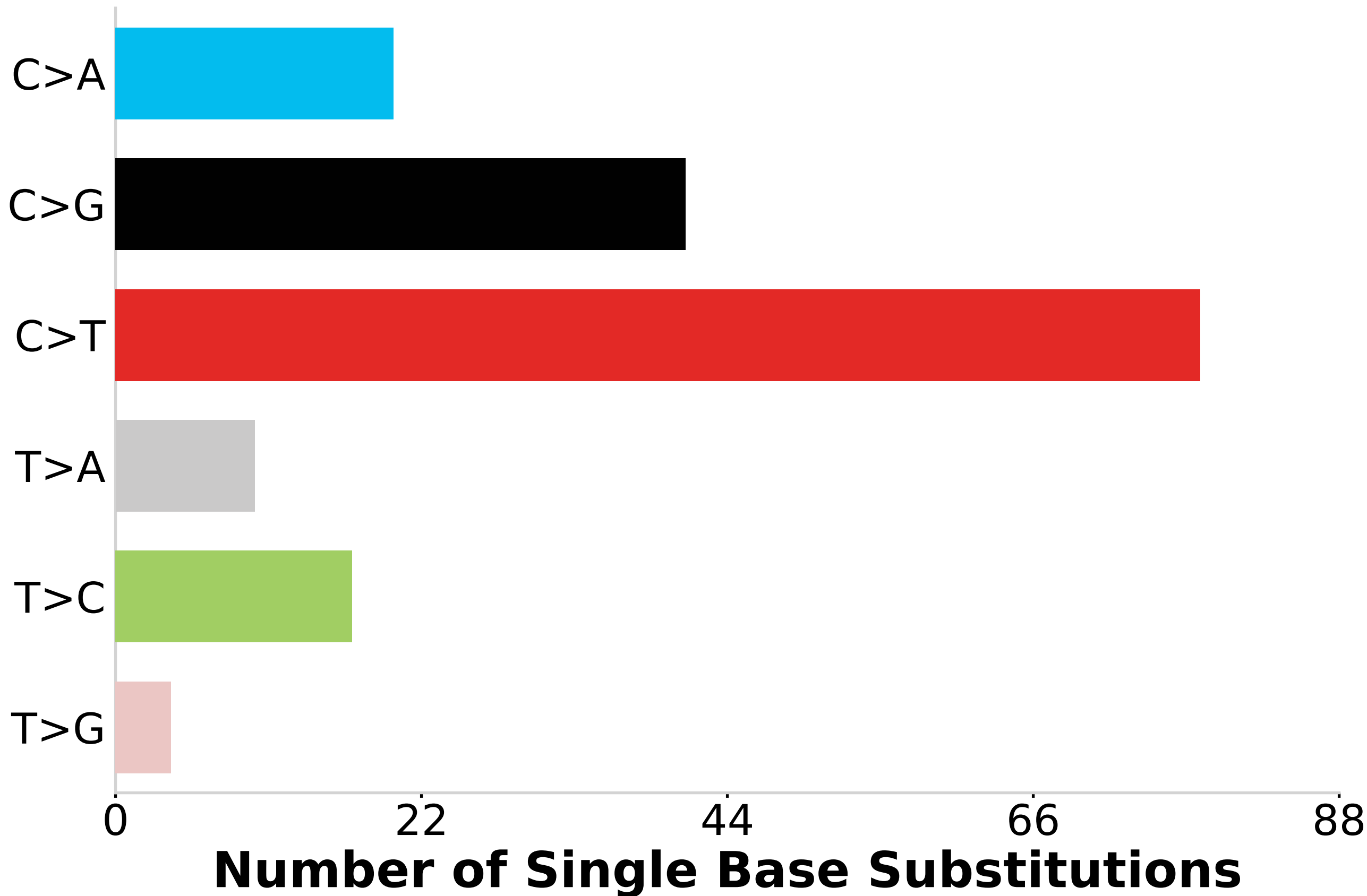
TCGA-FD-A3SR-01A-11D-A22Z-08: 137 sub



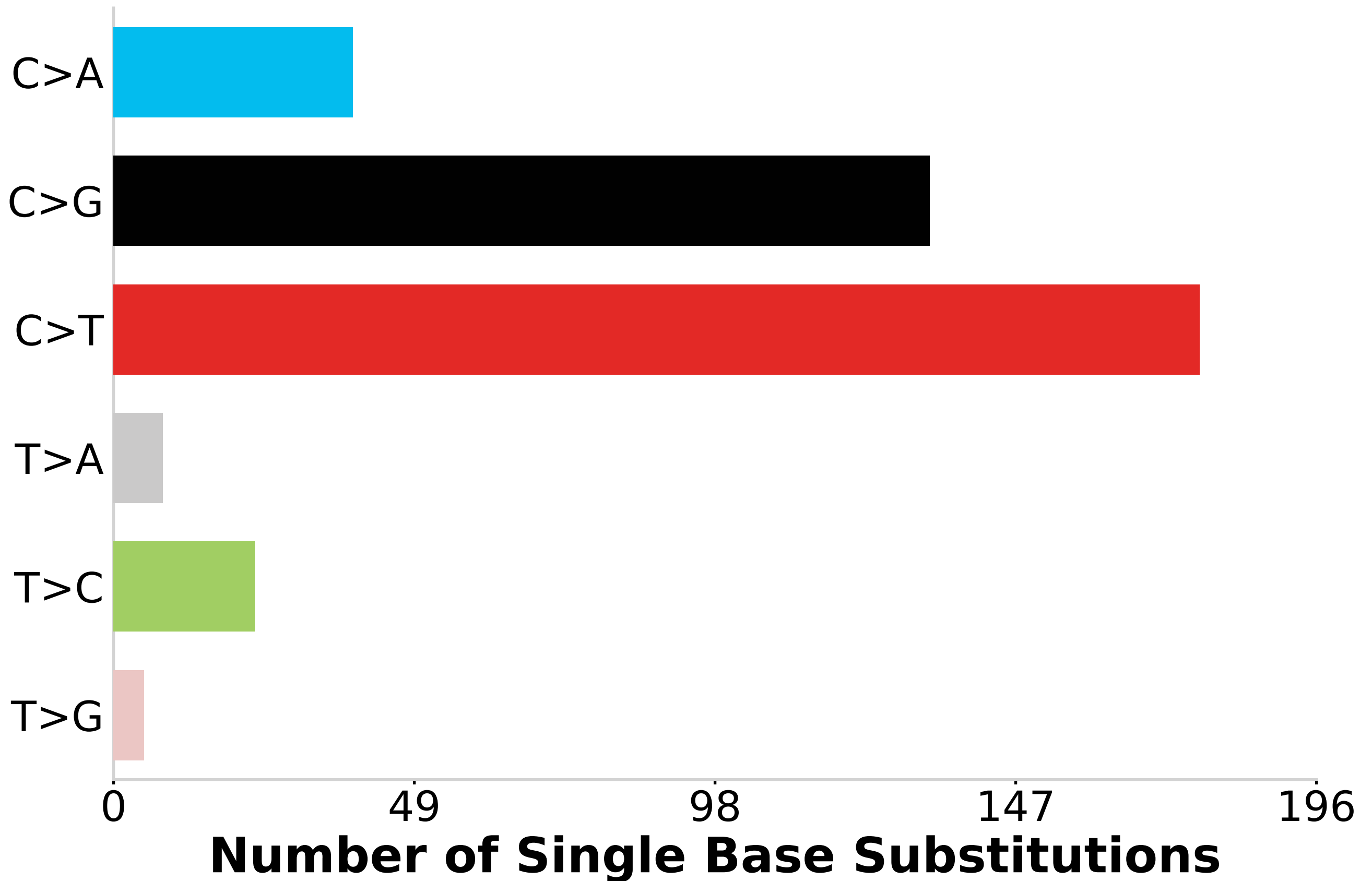
TCGA-FD-A3SS-01A-12D-A22Z-08: 476 sub



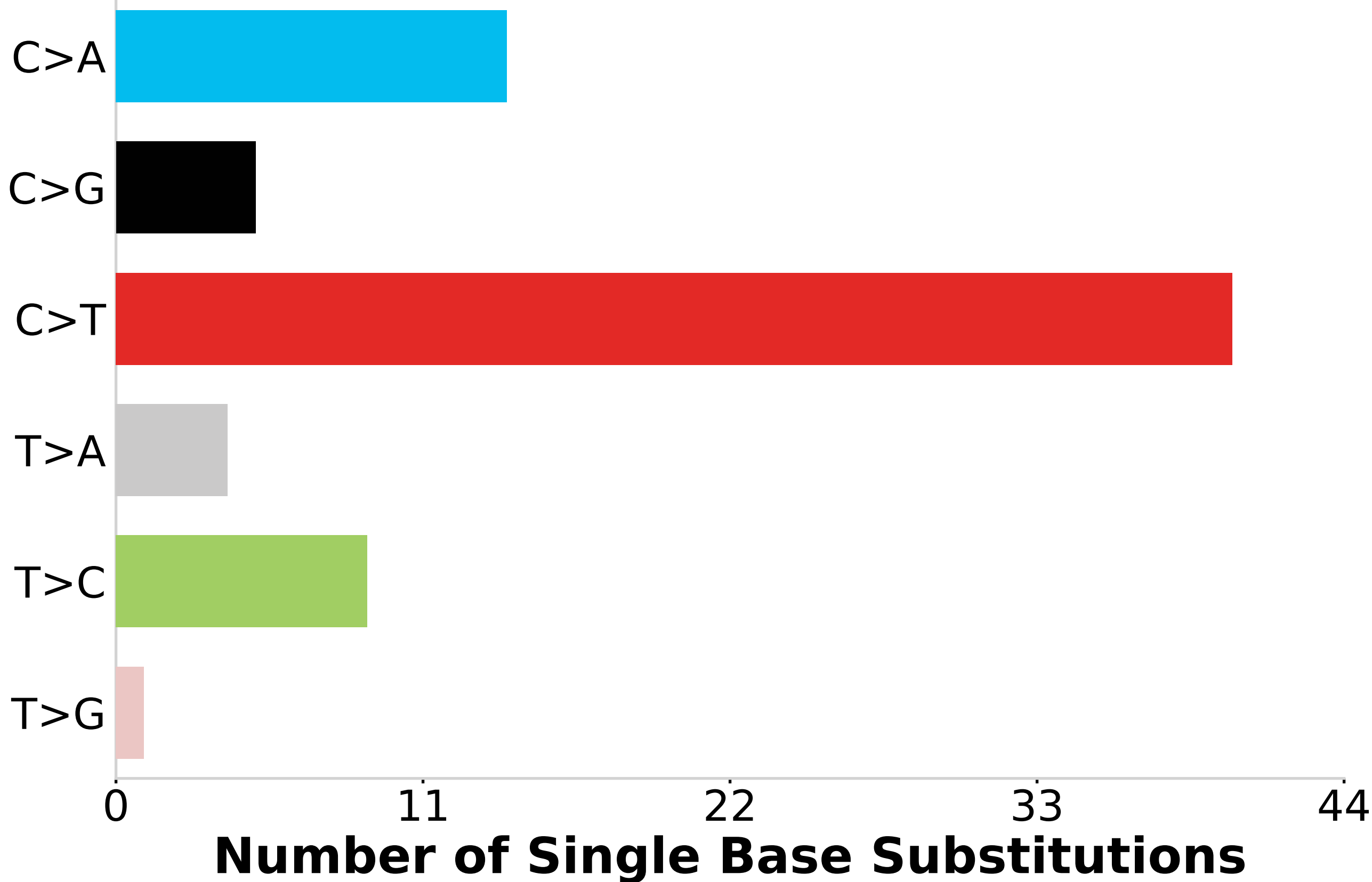
TCGA-FD-A43N-01A-11D-A23U-08: 170 sub



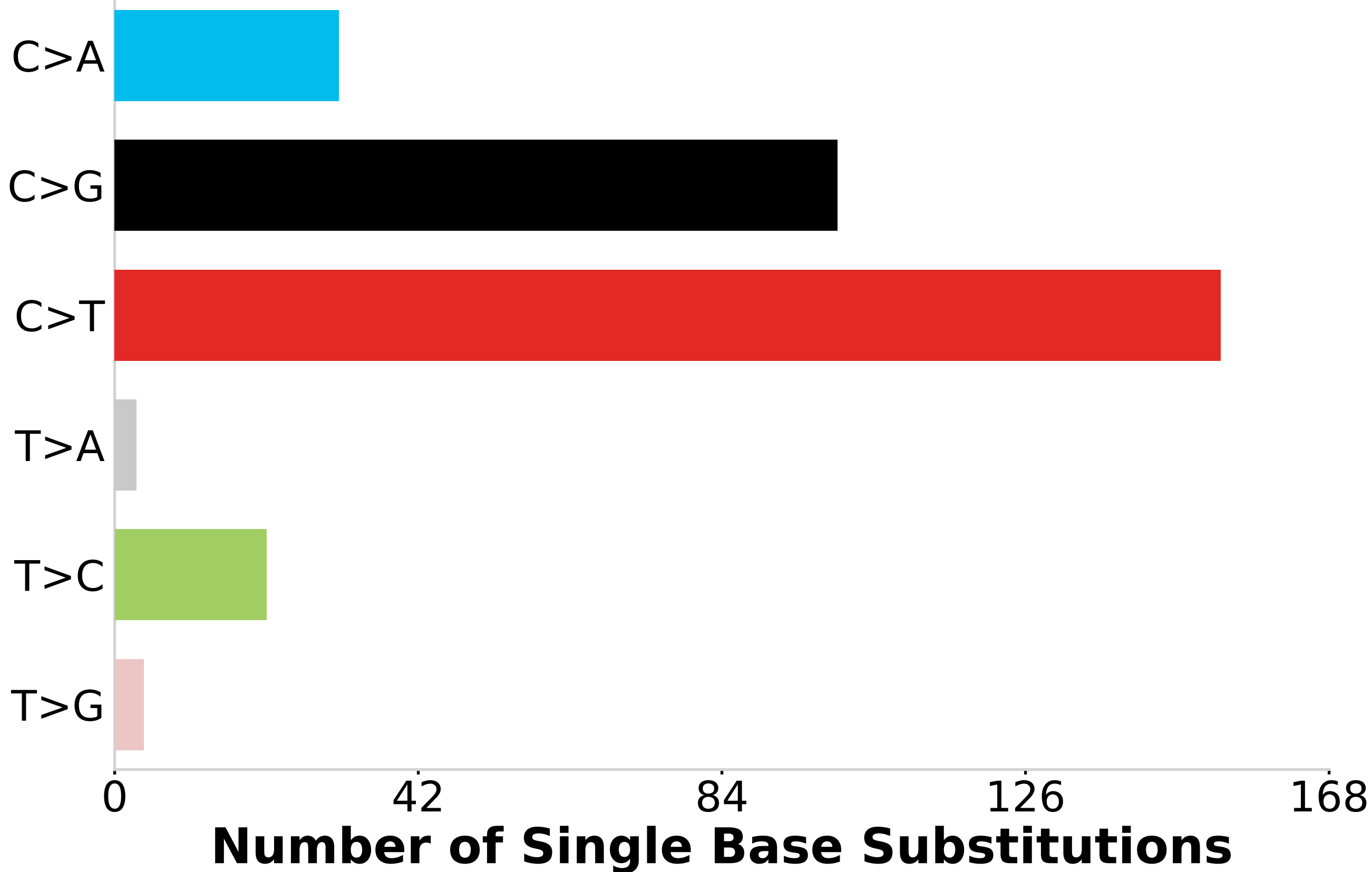
TCGA-FD-A43P-01A-31D-A23U-08: 385 sub



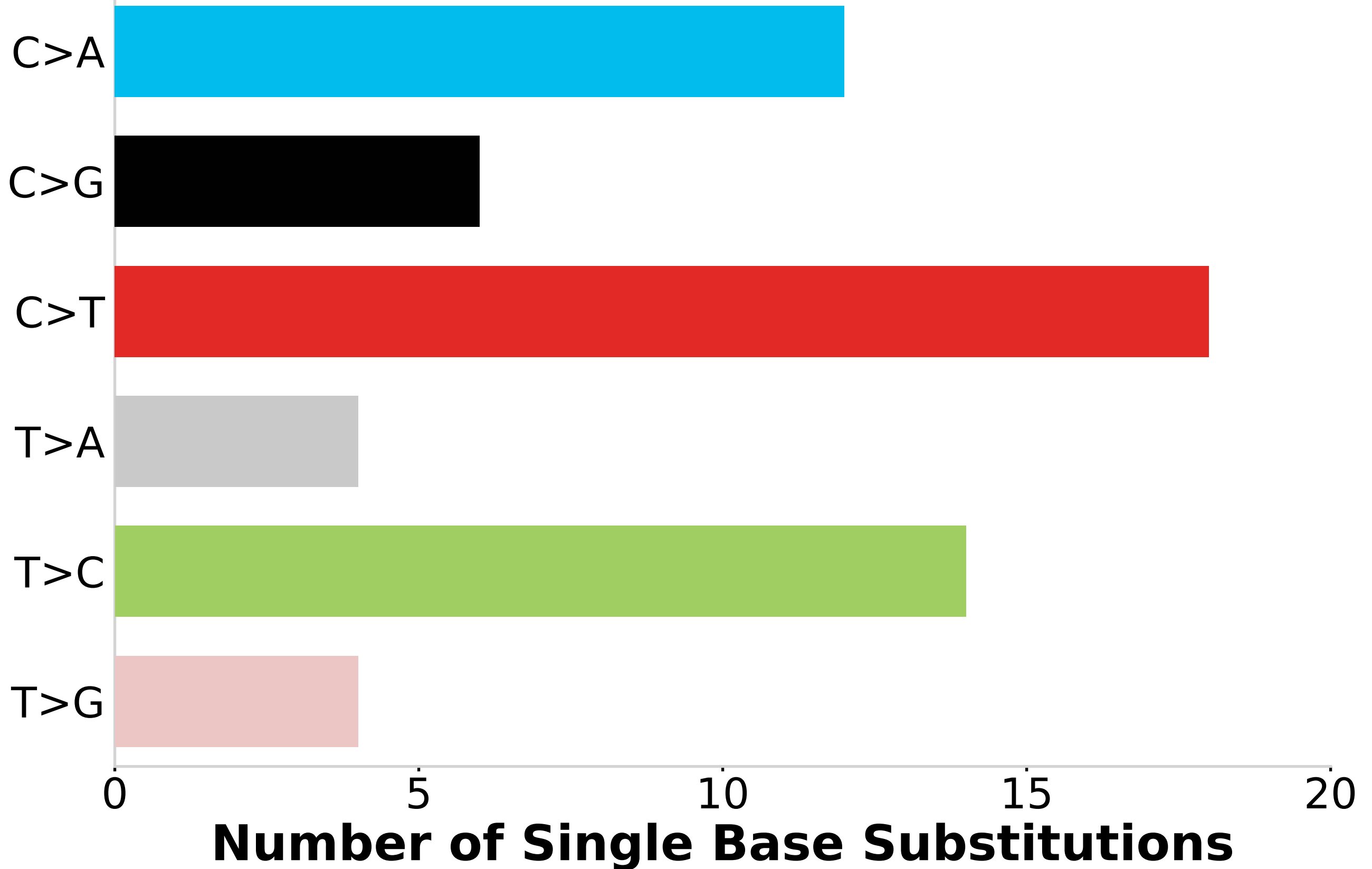
TCGA-FD-A43U-01A-11D-A23U-08: 73 subs



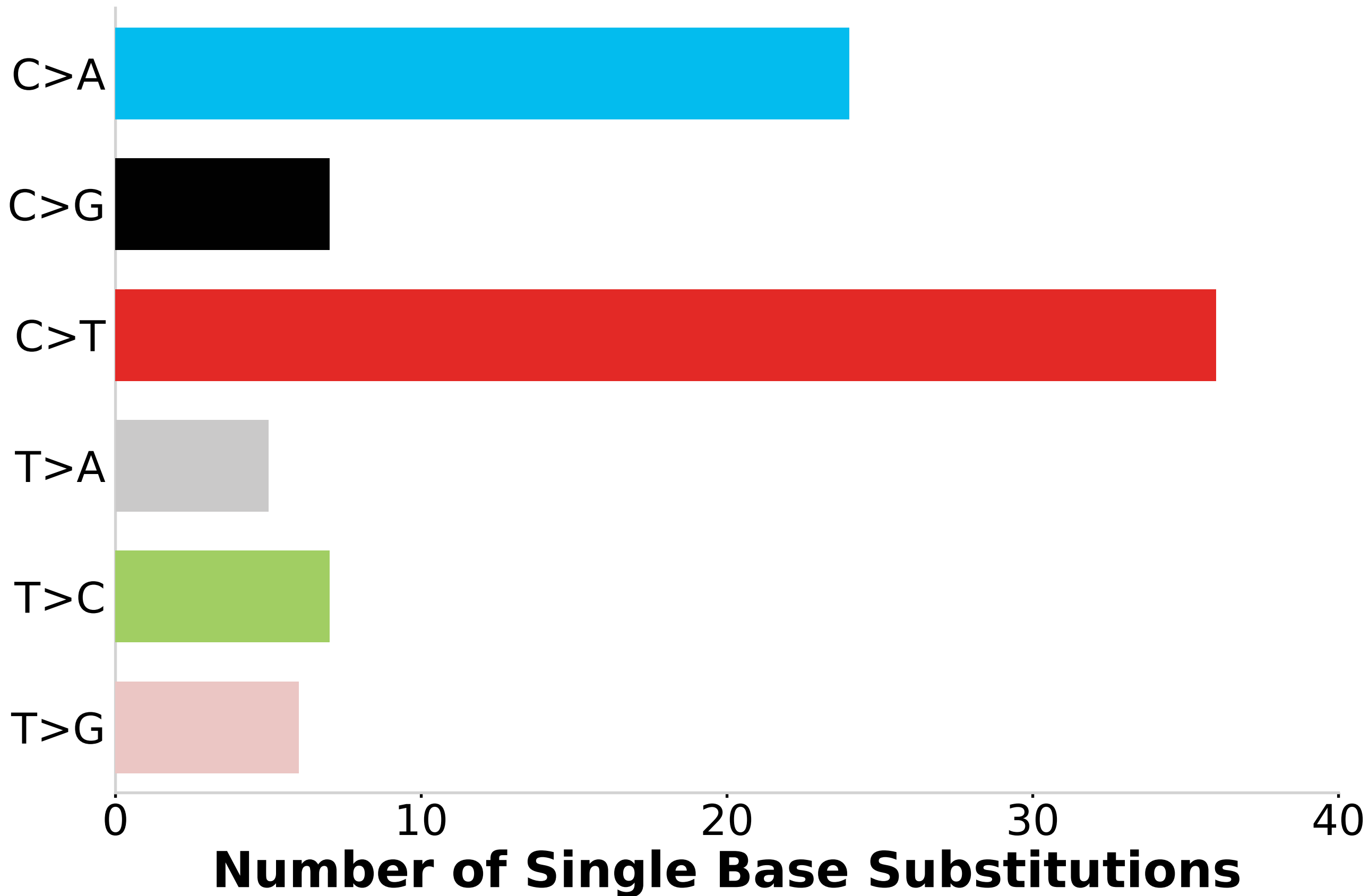
TCGA-FD-A43X-01A-11D-A23U-08: 312 sub



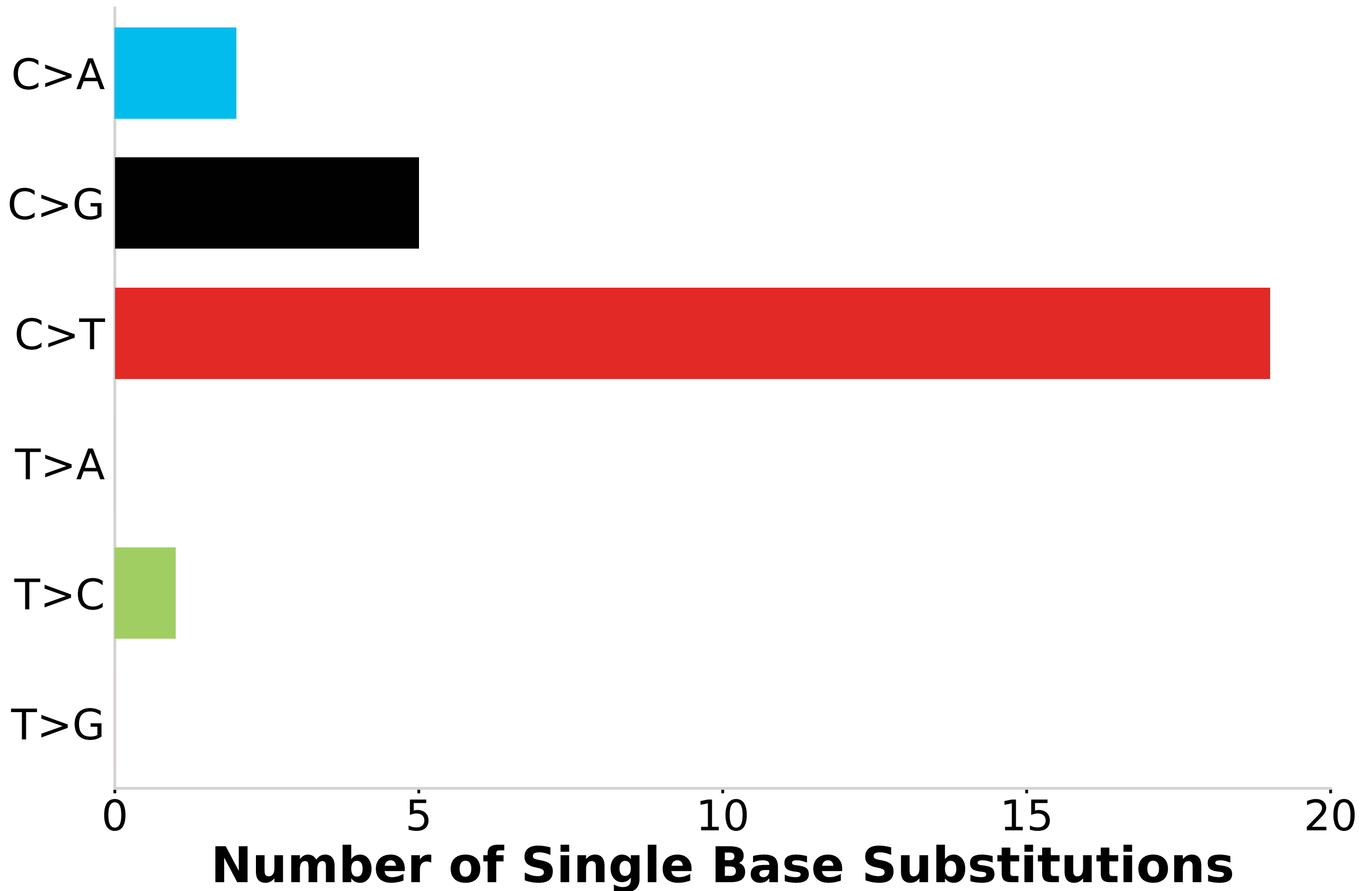
TCGA-FD-A43Y-01A-21D-A26M-08: 58 subs



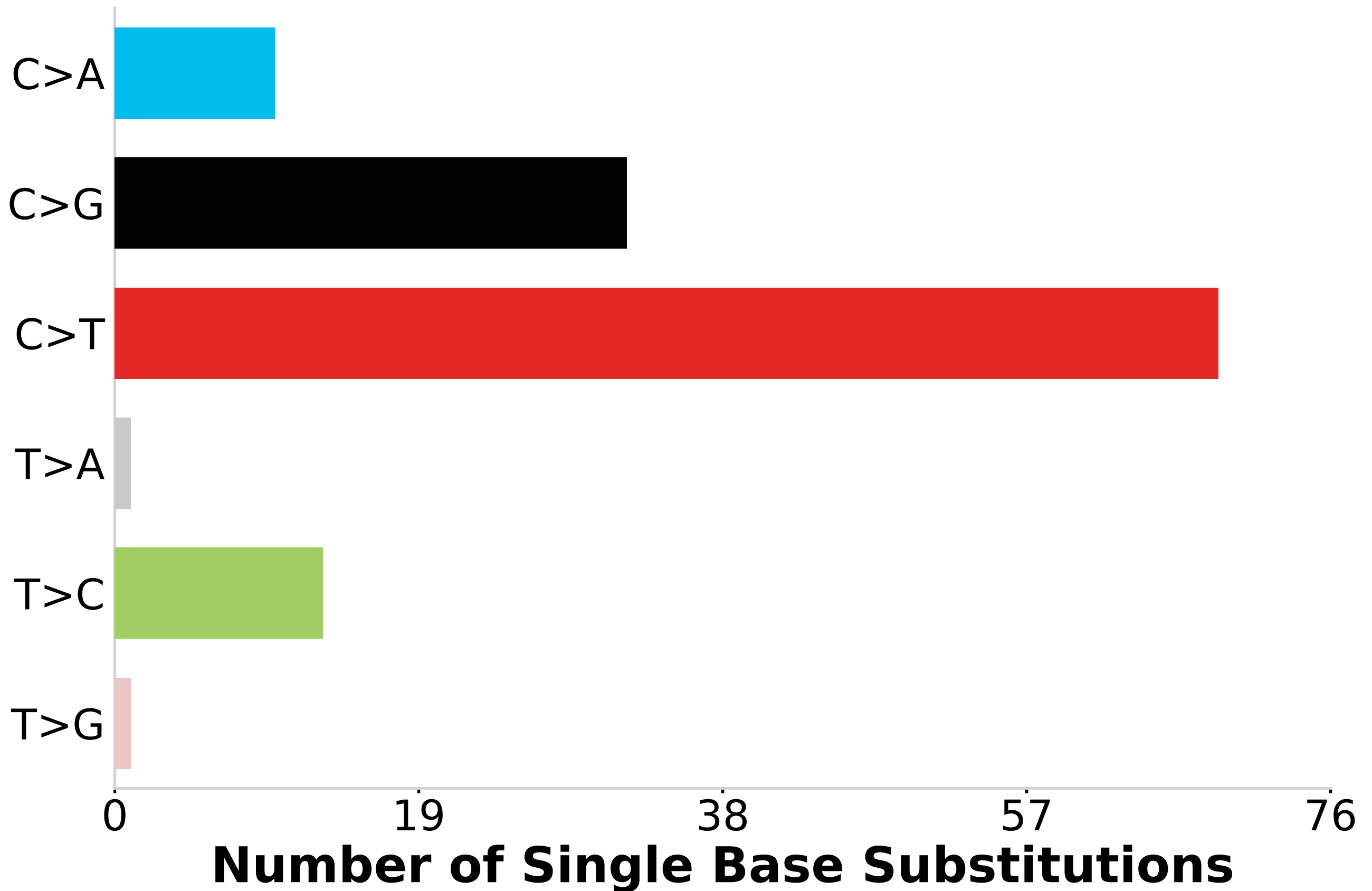
TCGA-FD-A5BR-01A-11D-A26M-08: 85 subs



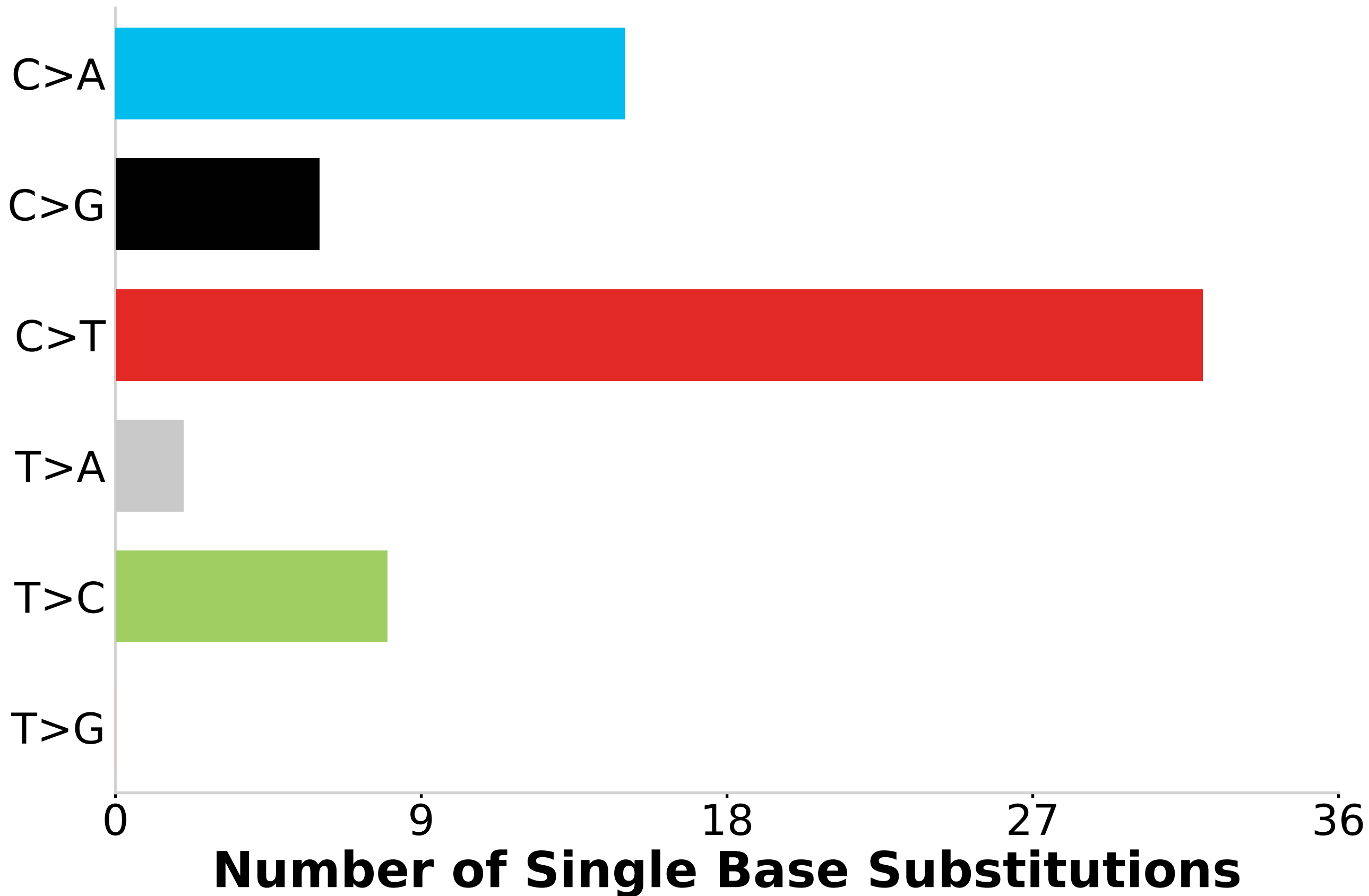
TCGA-FD-A5BS-01A-21D-A26M-08: 27 subs



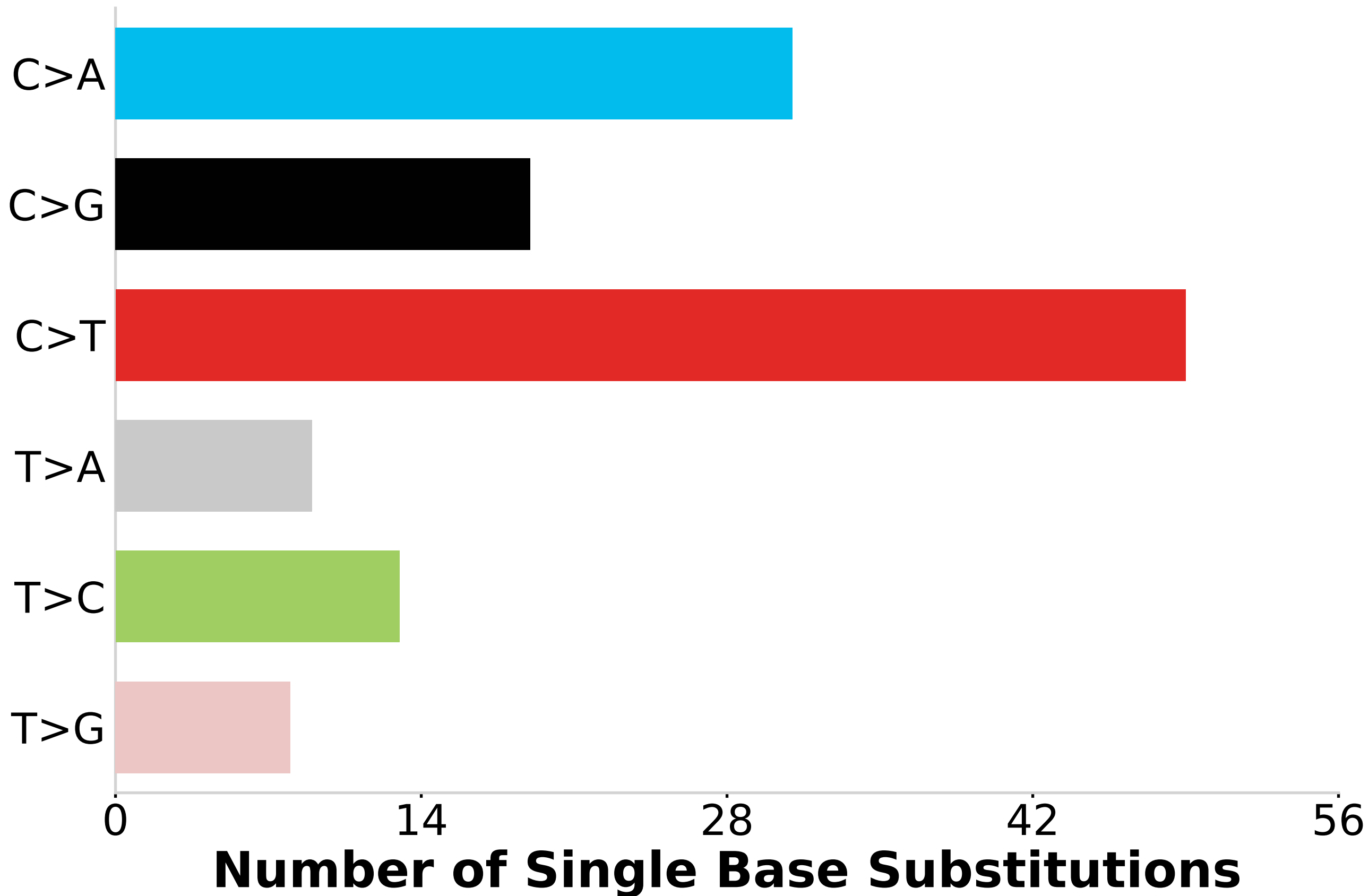
TCGA-FD-A5BT-01A-11D-A26M-08: 126 sub



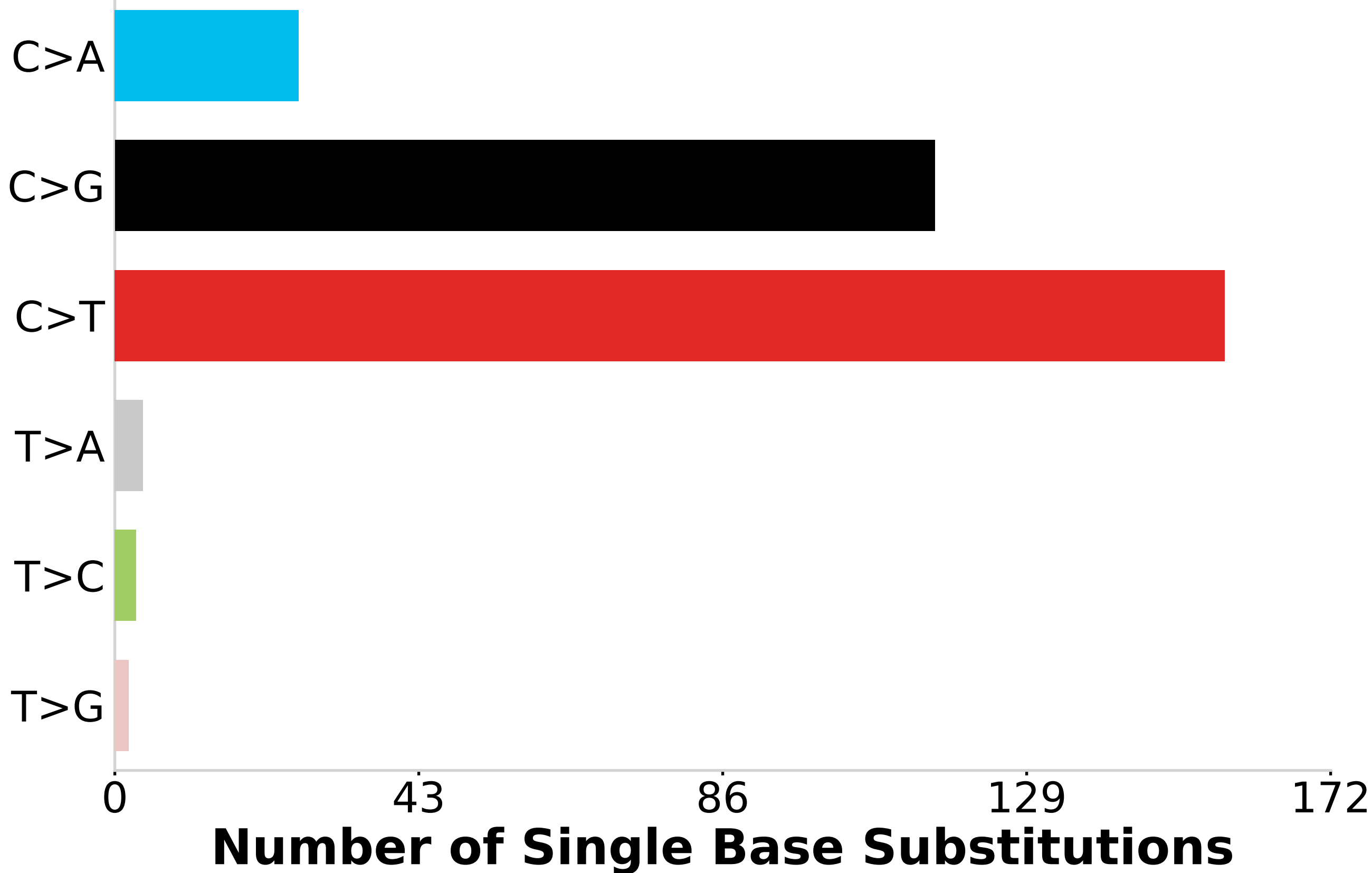
TCGA-FD-A5BU-01A-31D-A26M-08: 63 sub



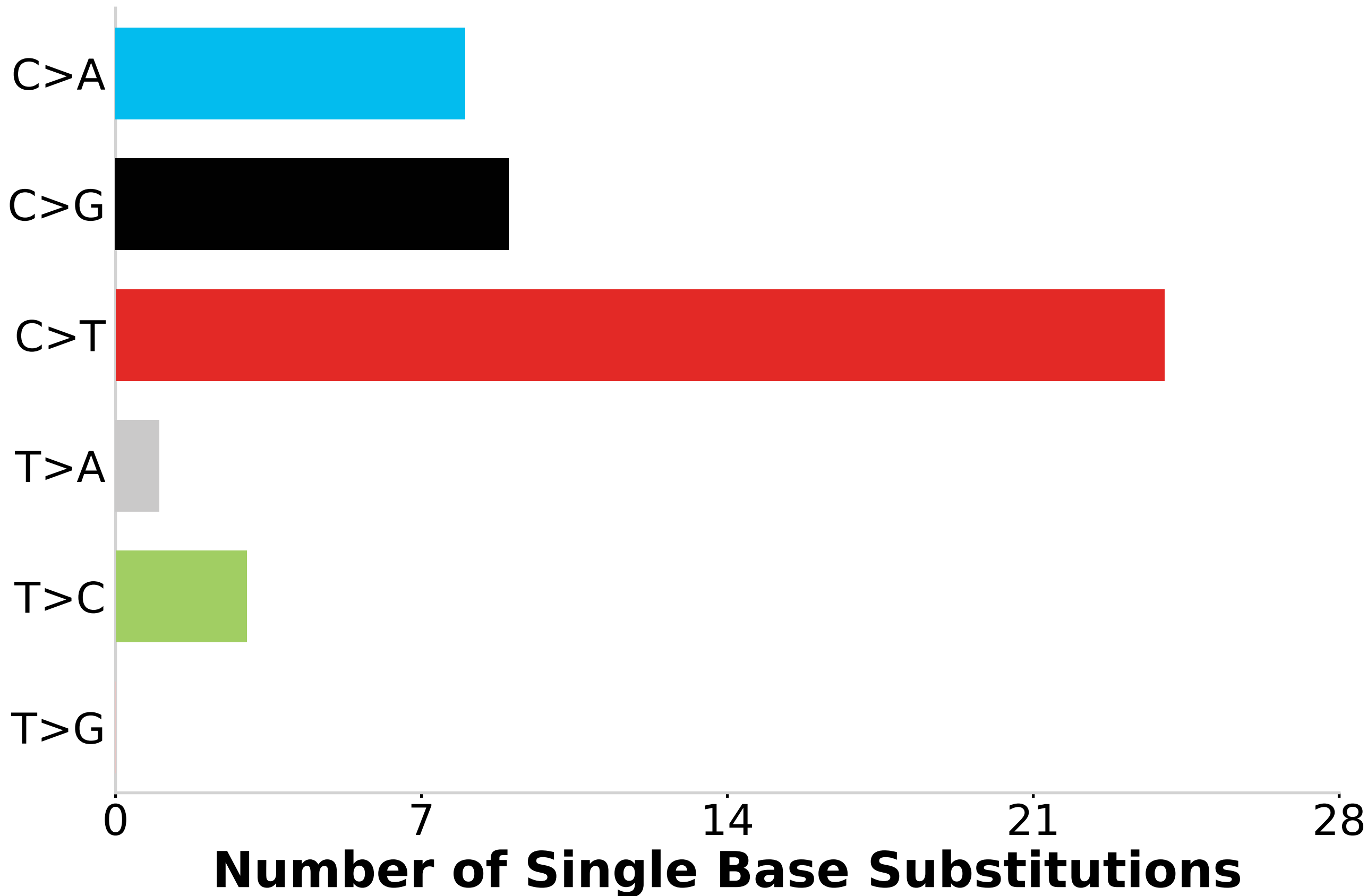
TCGA-FD-A5BV-01A-11D-A26M-08: 129 su



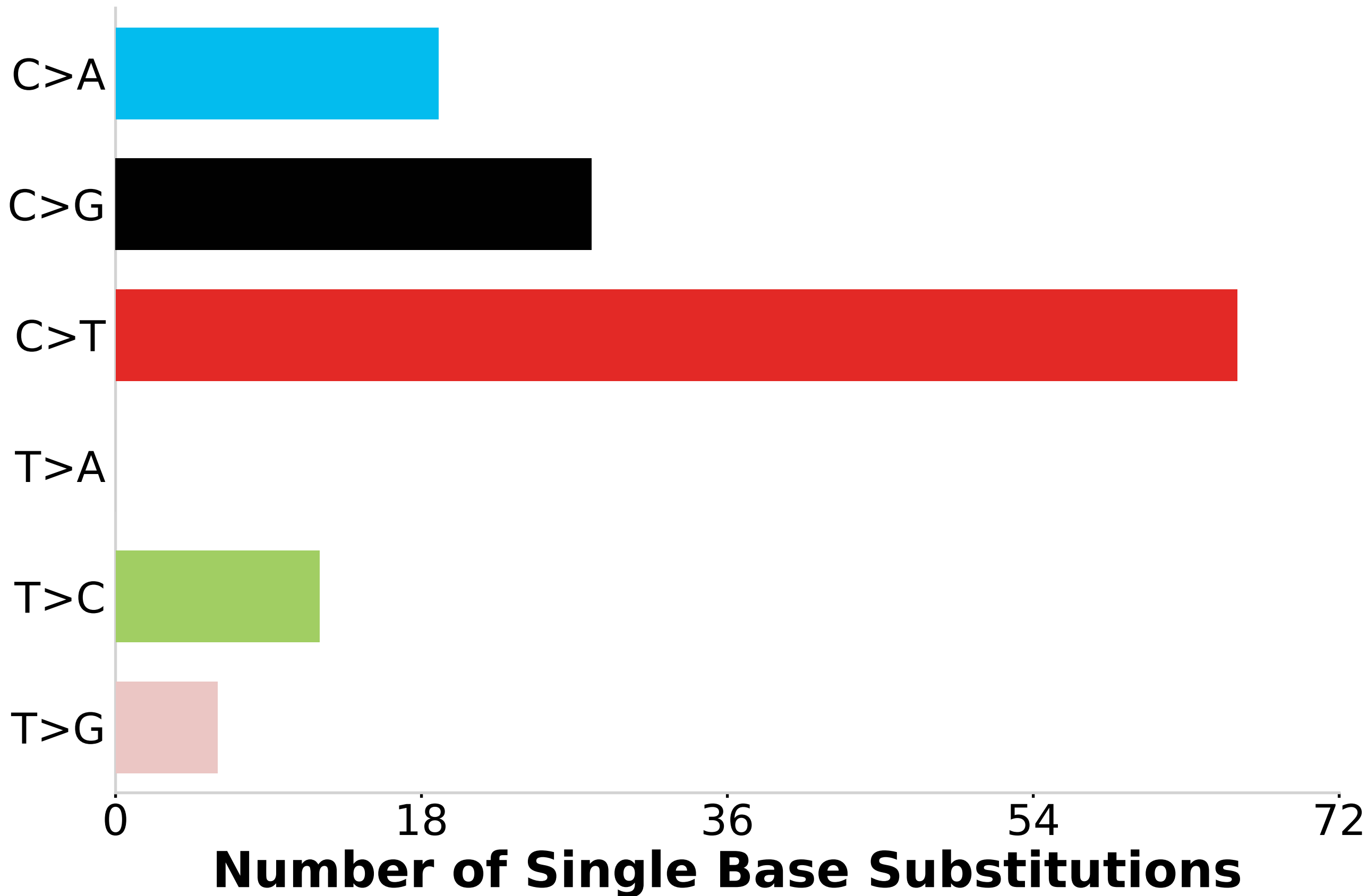
TCGA-FD-A5BX-01A-11D-A26M-08: 308 substitutions



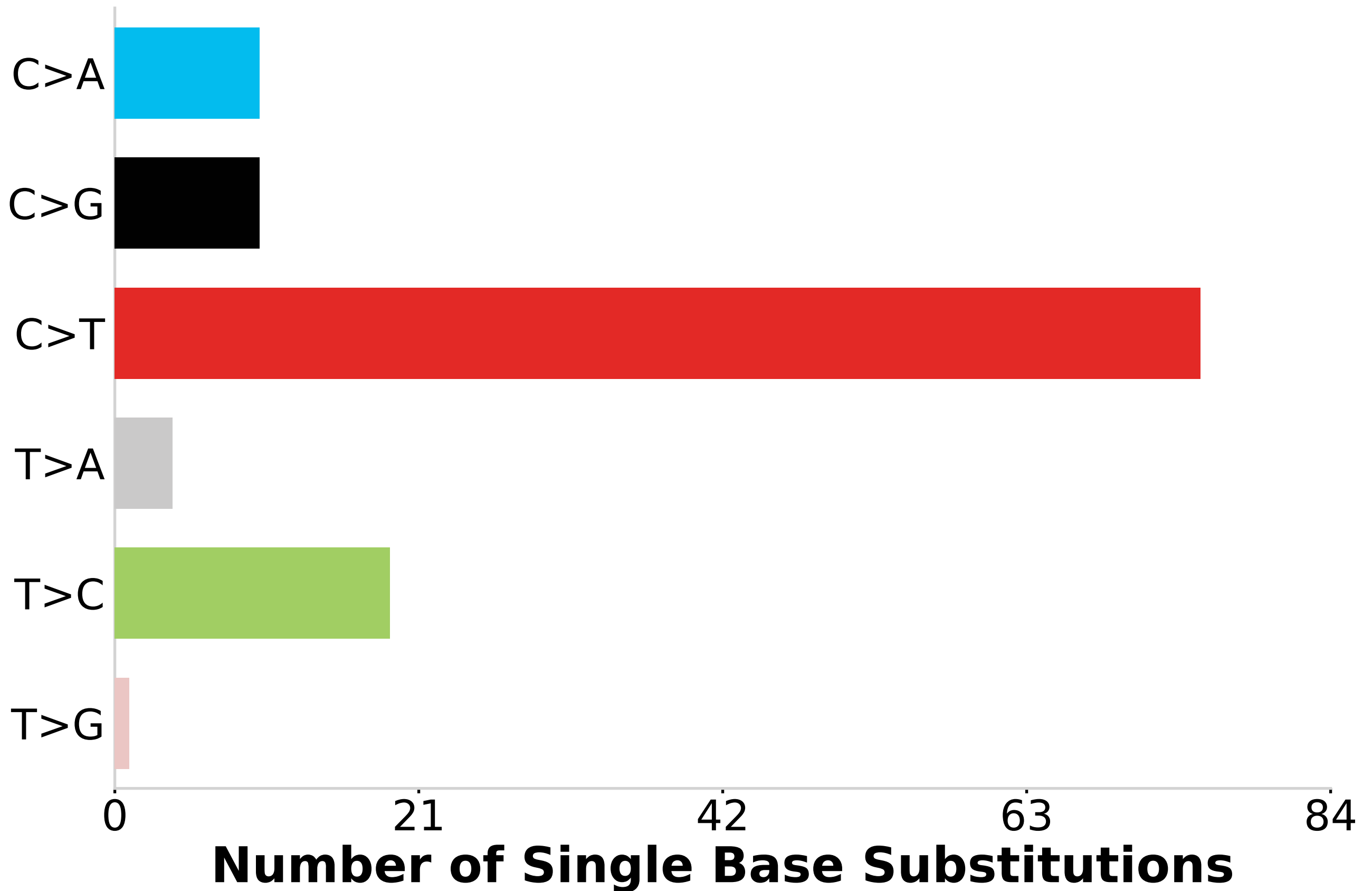
TCGA-FD-A5BY-01A-31D-A289-08: 45 subs



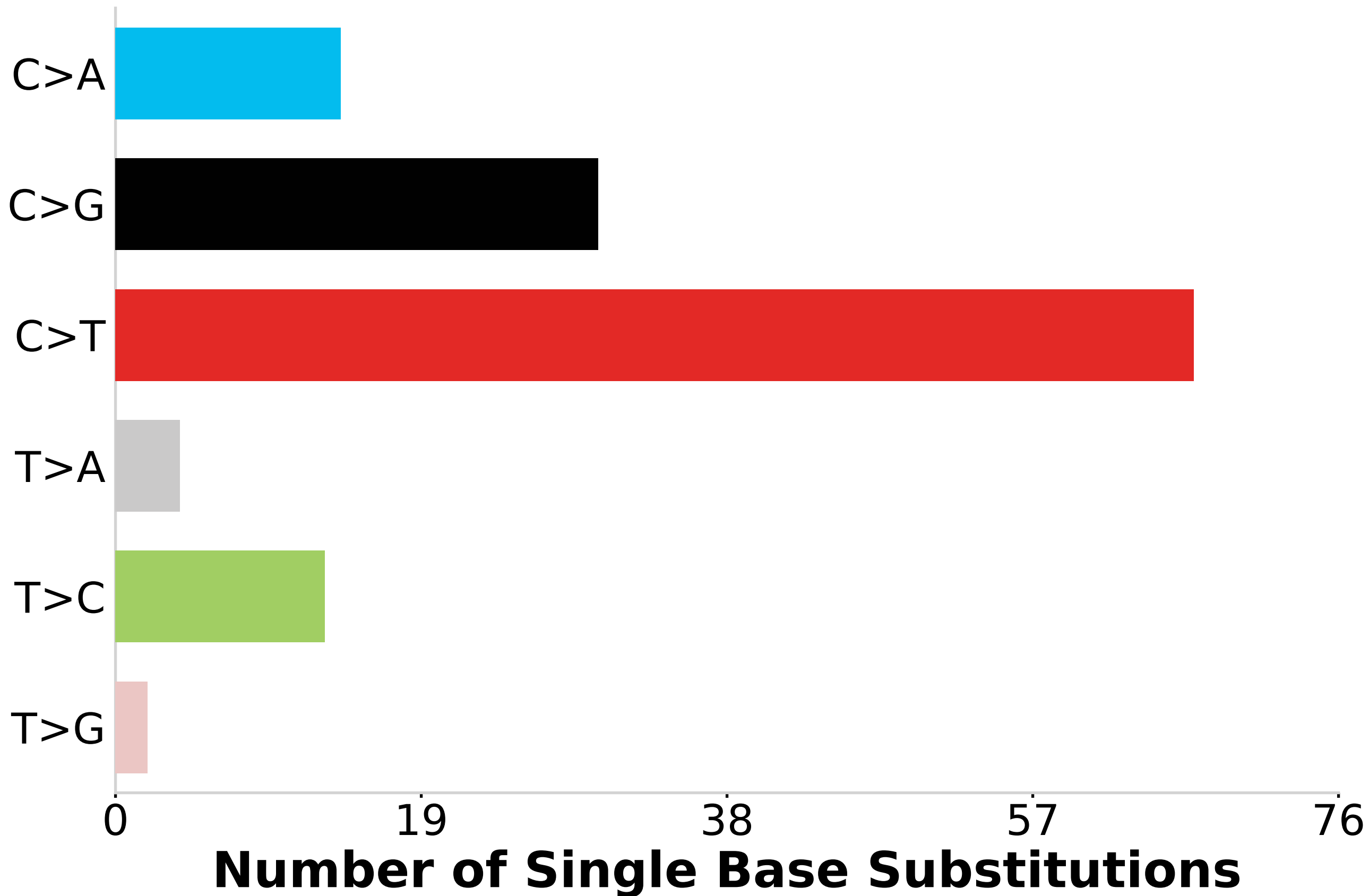
TCGA-FD-A5BZ-01A-11D-A289-08: 131 sub



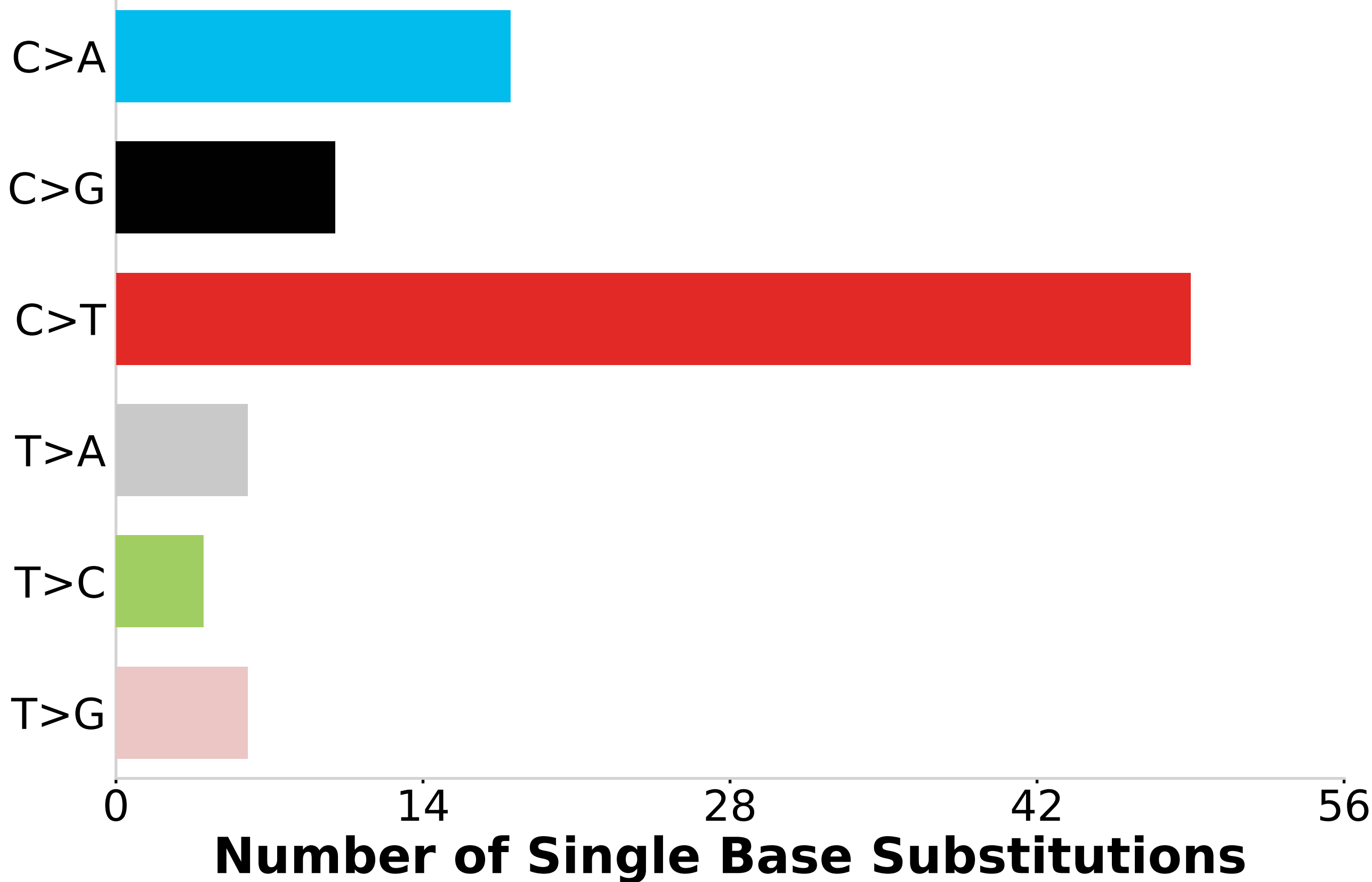
TCGA-FD-A5C0-01A-11D-A289-08: 119 sub



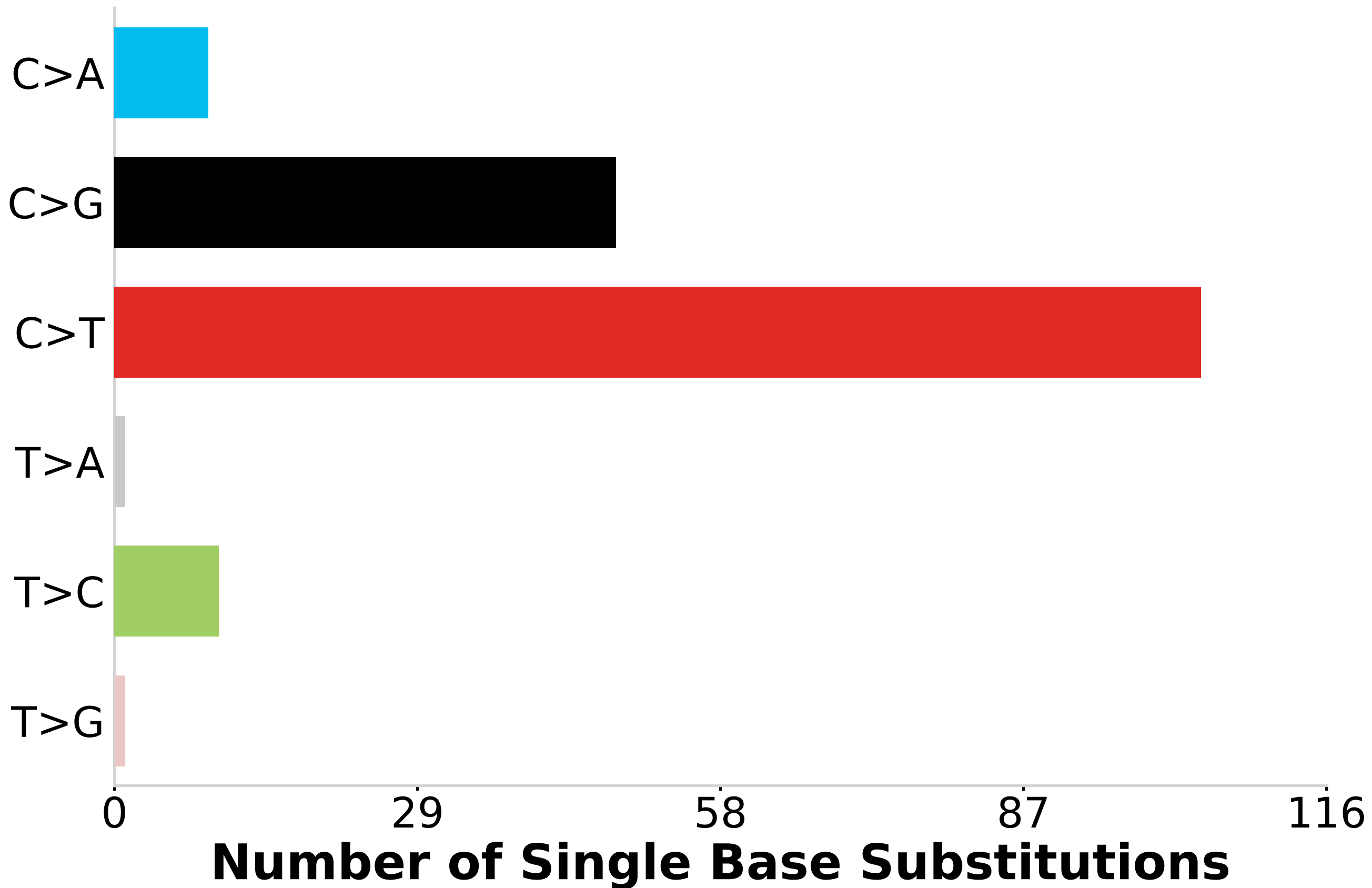
TCGA-FD-A5C1-01A-11D-A289-08: 130 sub



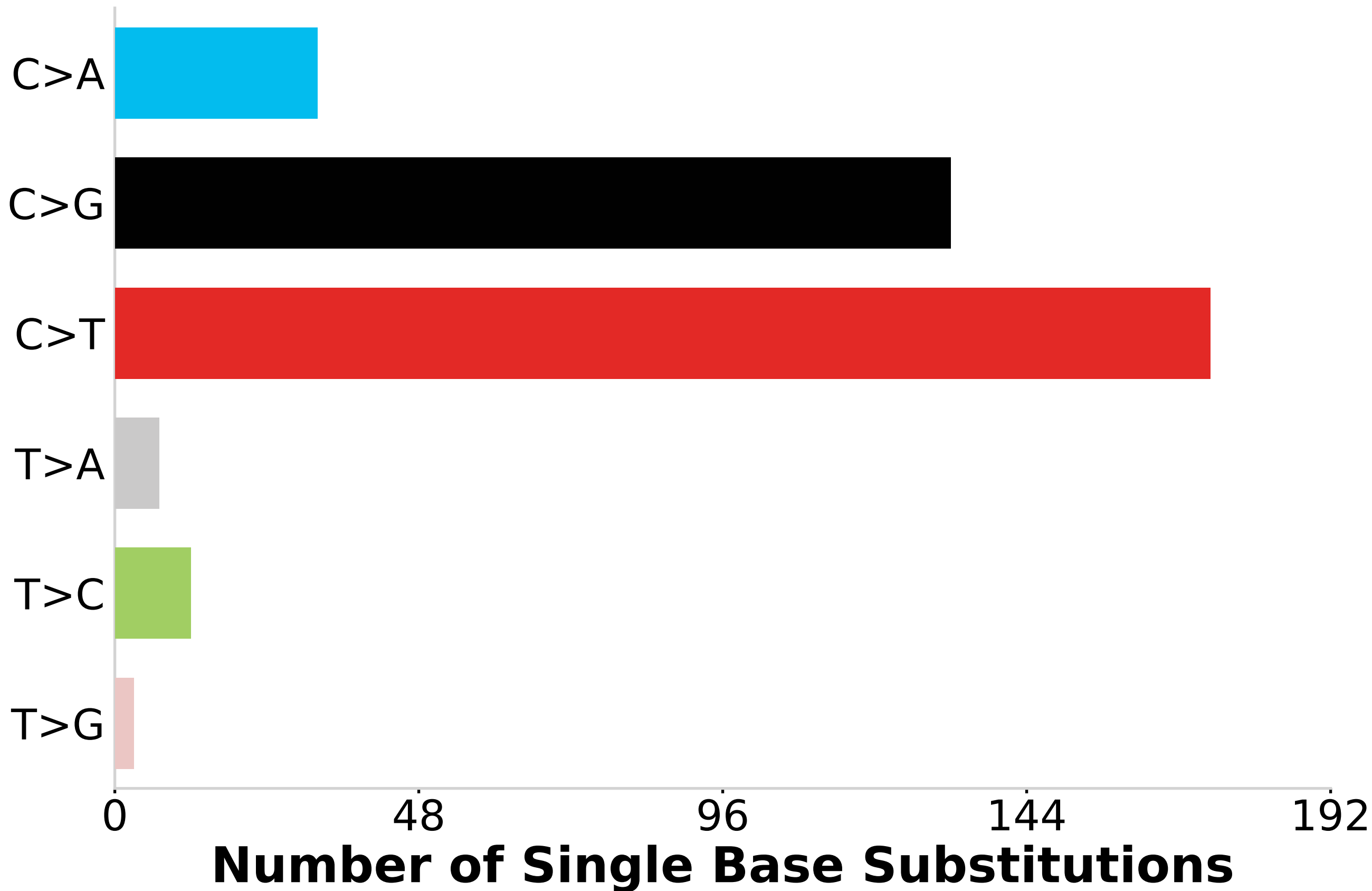
TCGA-FD-A62N-01A-11D-A30E-08: 93 subs



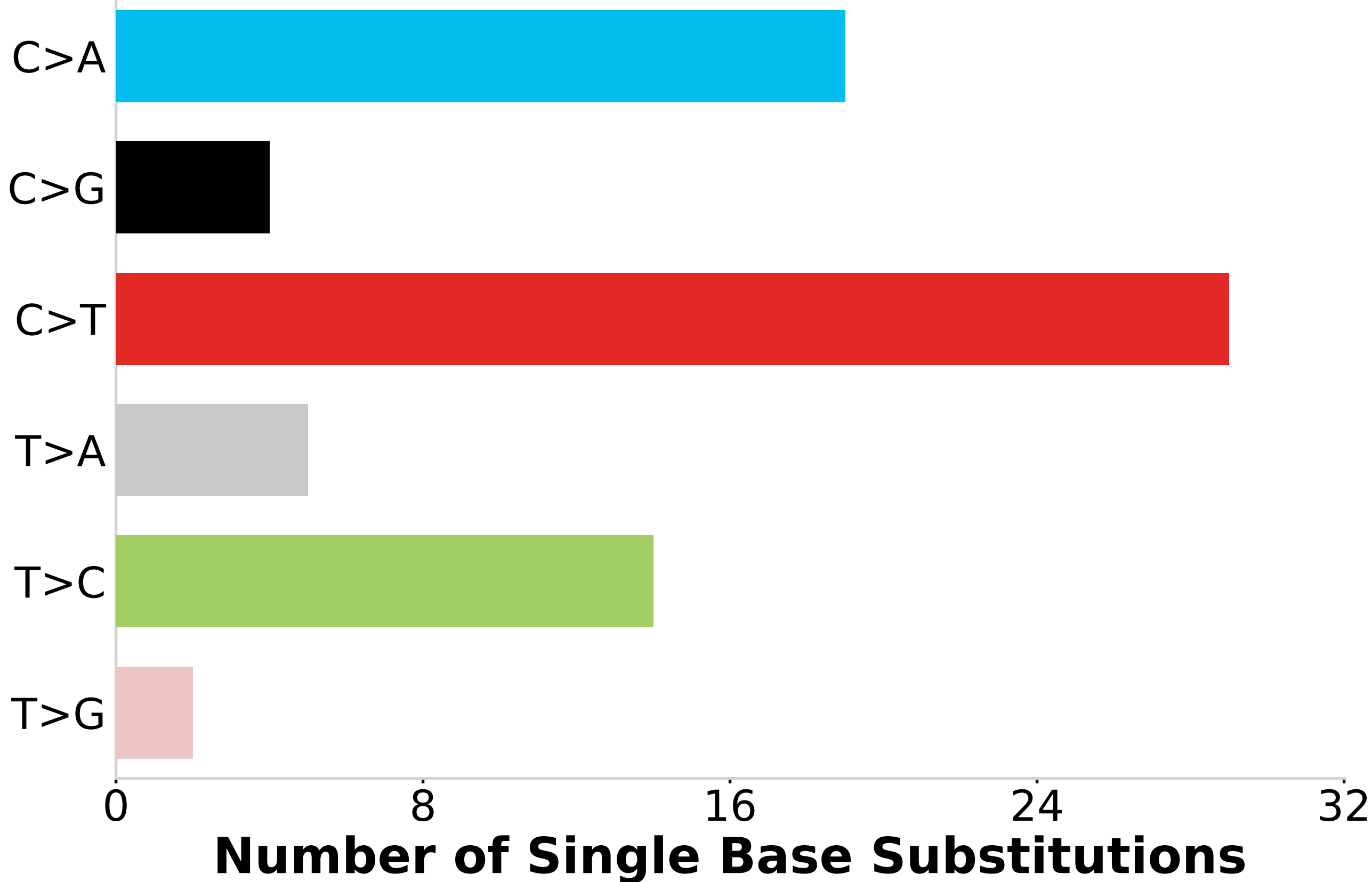
TCGA-FD-A620-01A-11D-A30E-08: 173 sub



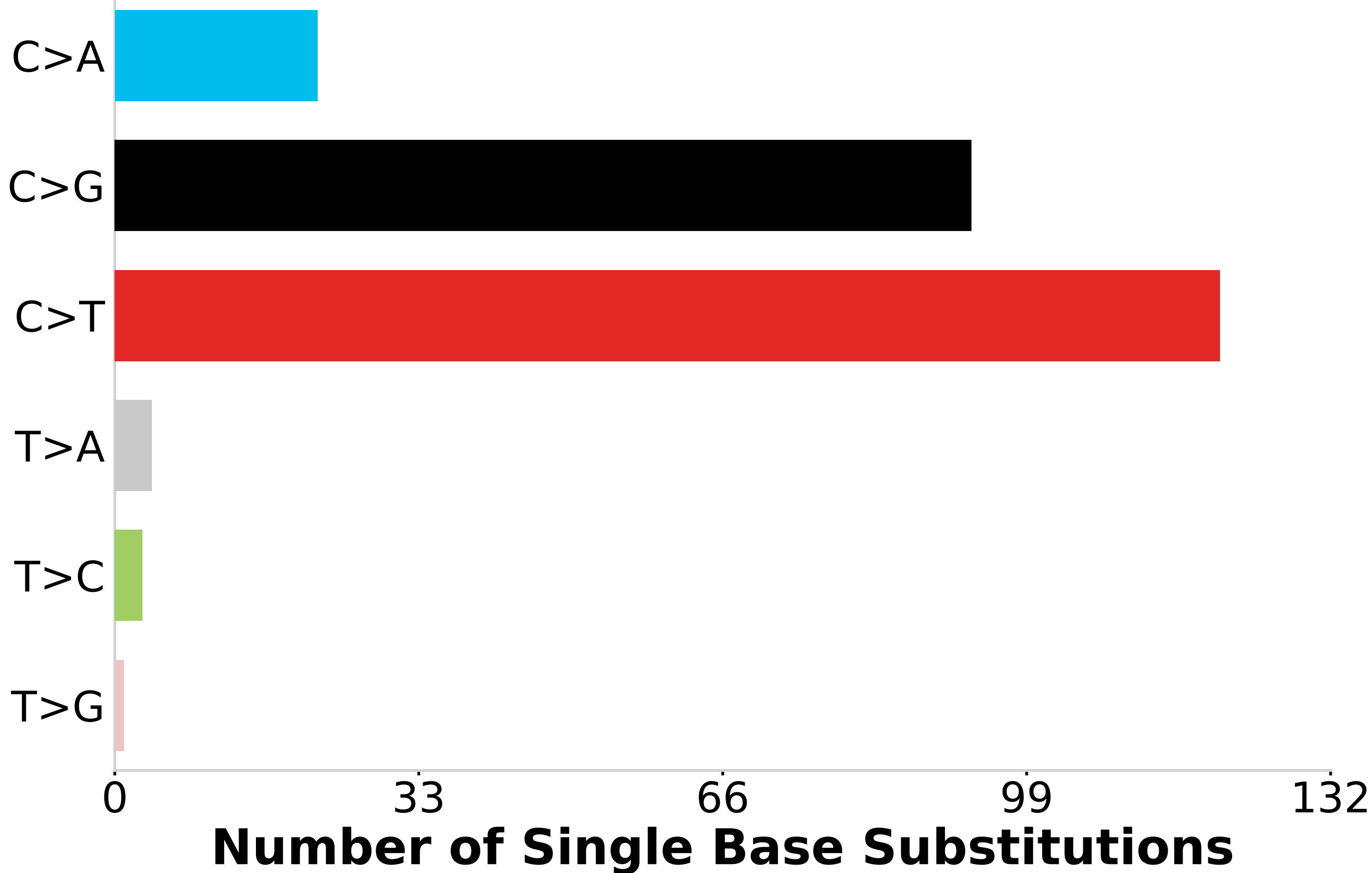
TCGA-FD-A62P-01A-32D-A30E-08: 359 sub



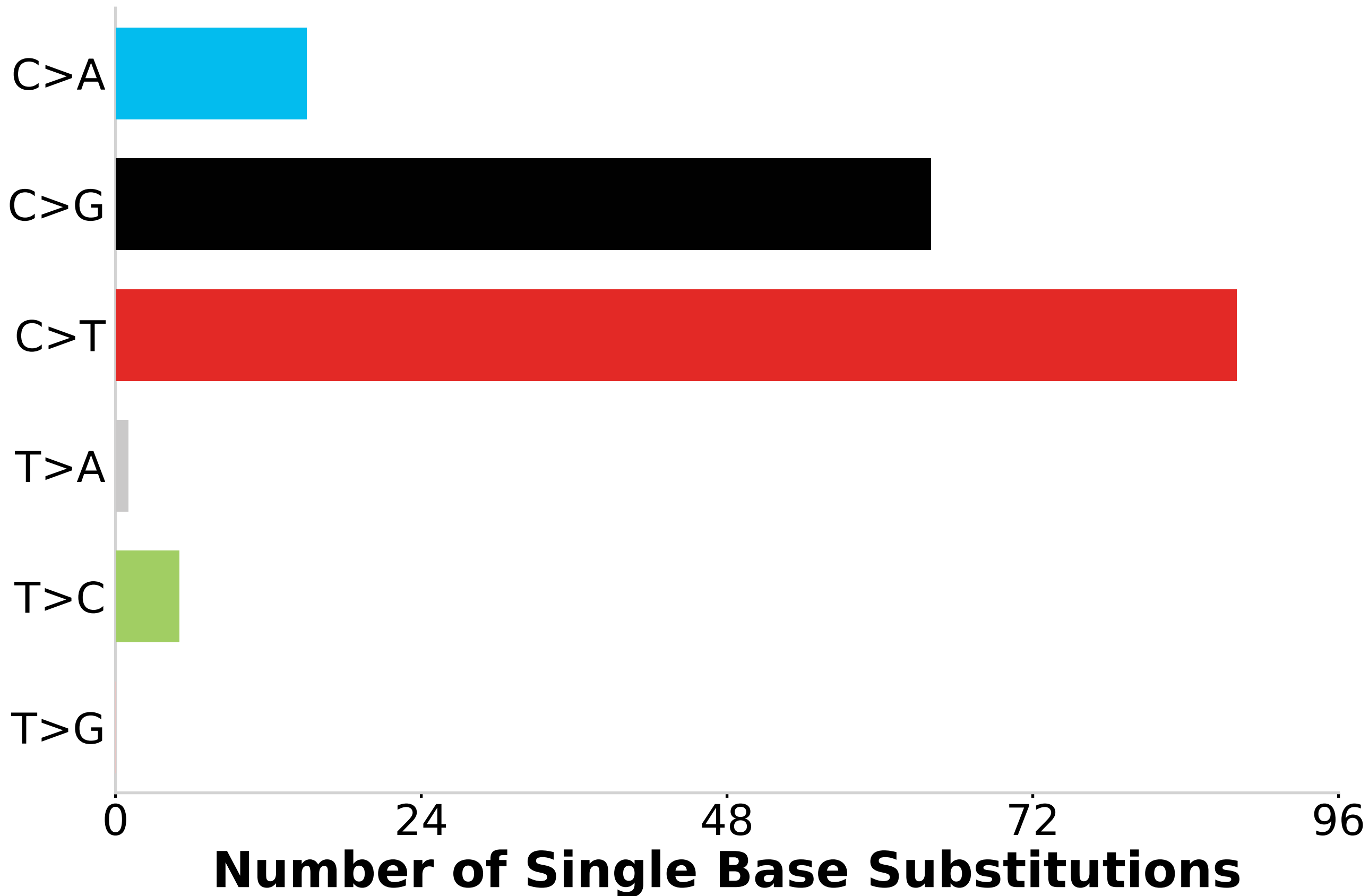
TCGA-FD-A62S-01A-11D-A30E-08: 73 subs



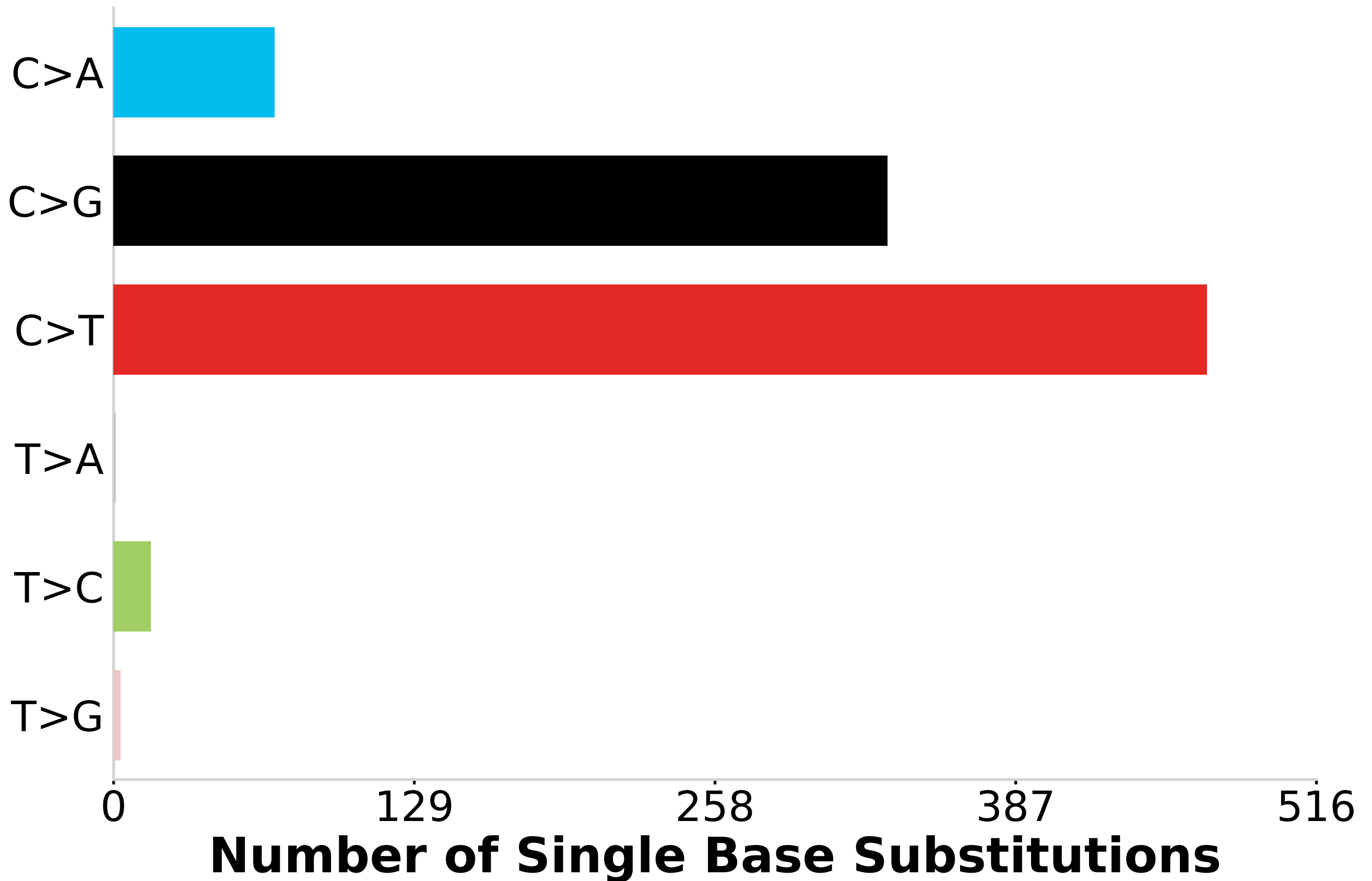
TCGA-FD-A6TA-01A-12D-A339-08: 243 sub



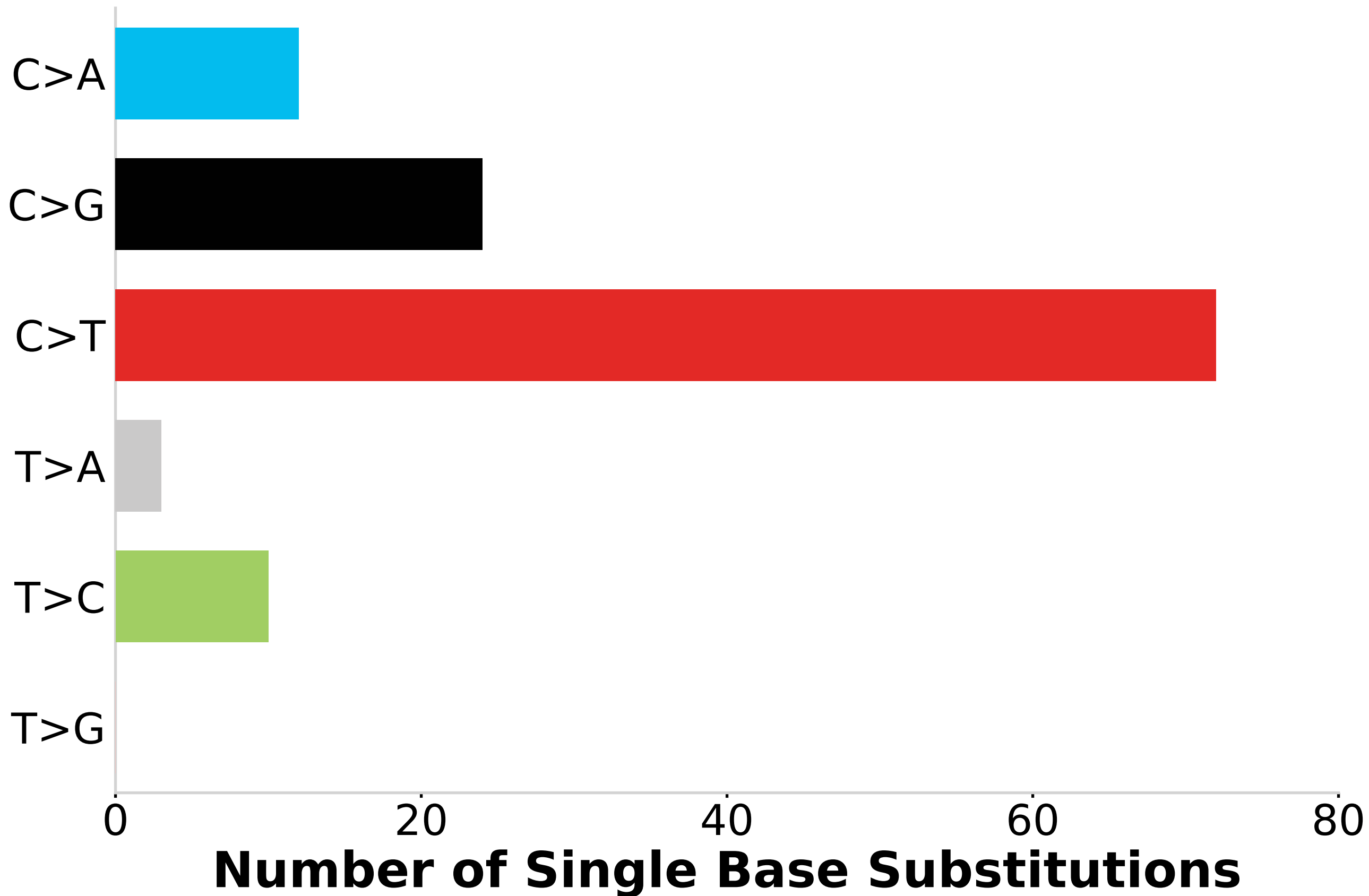
TCGA-FD-A6TB-01A-12D-A339-08: 173 sub



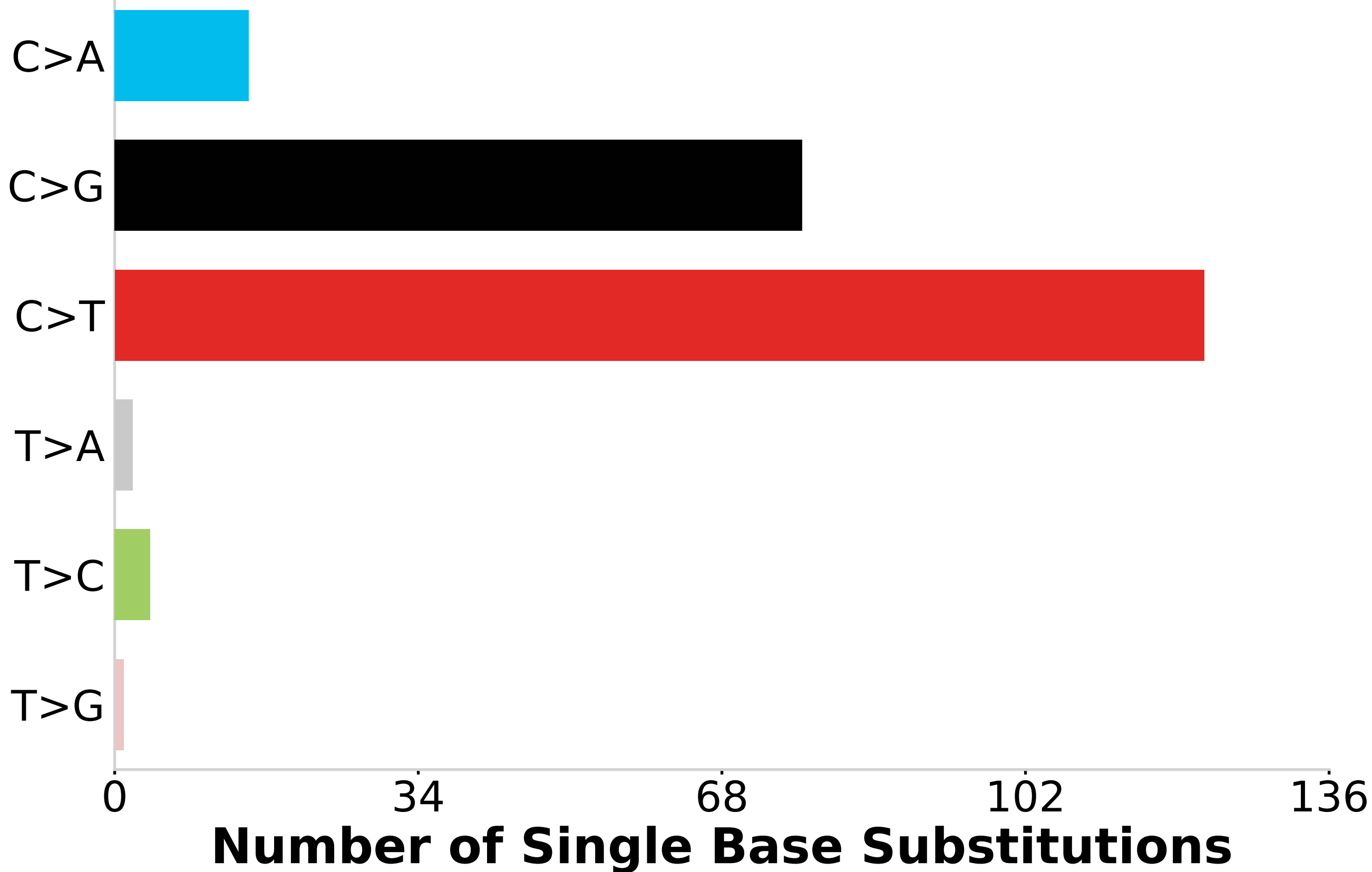
TCGA-FD-A6TC-01A-21D-A339-08: 890 sub



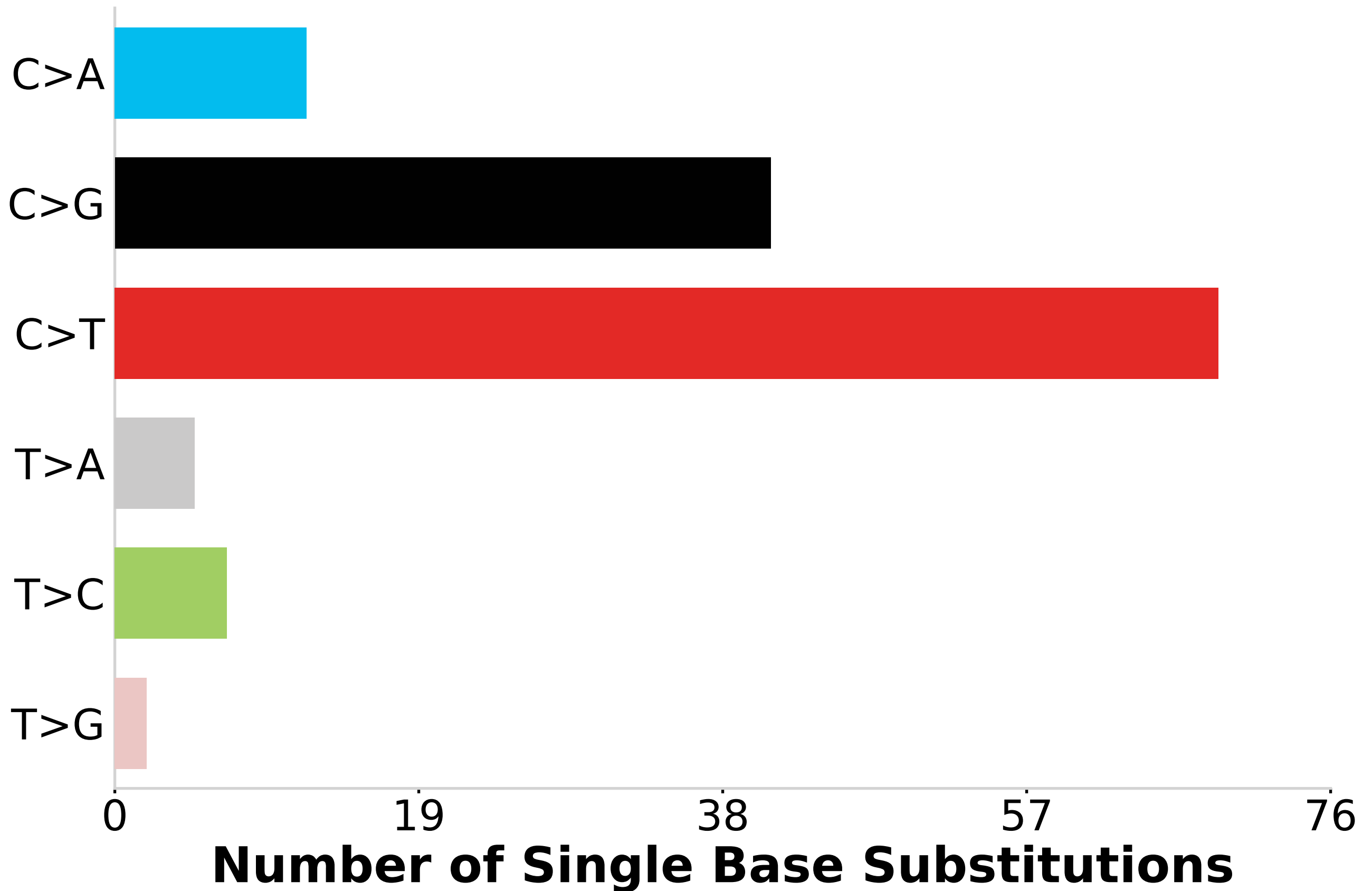
TCGA-FD-A6TD-01A-51D-A339-08: 121 sub



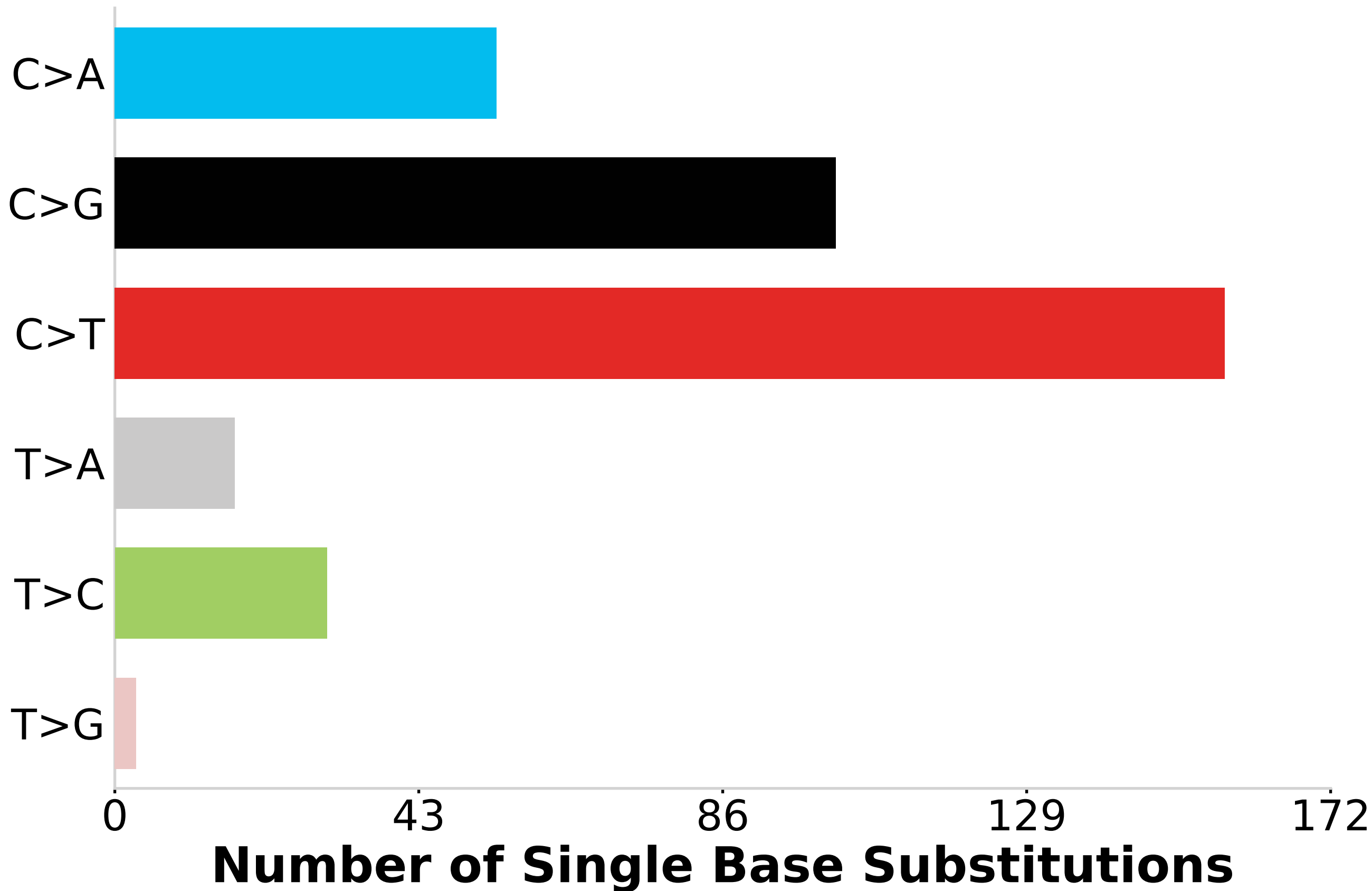
TCGA-FD-A6TE-01A-12D-A339-08: 221 sub



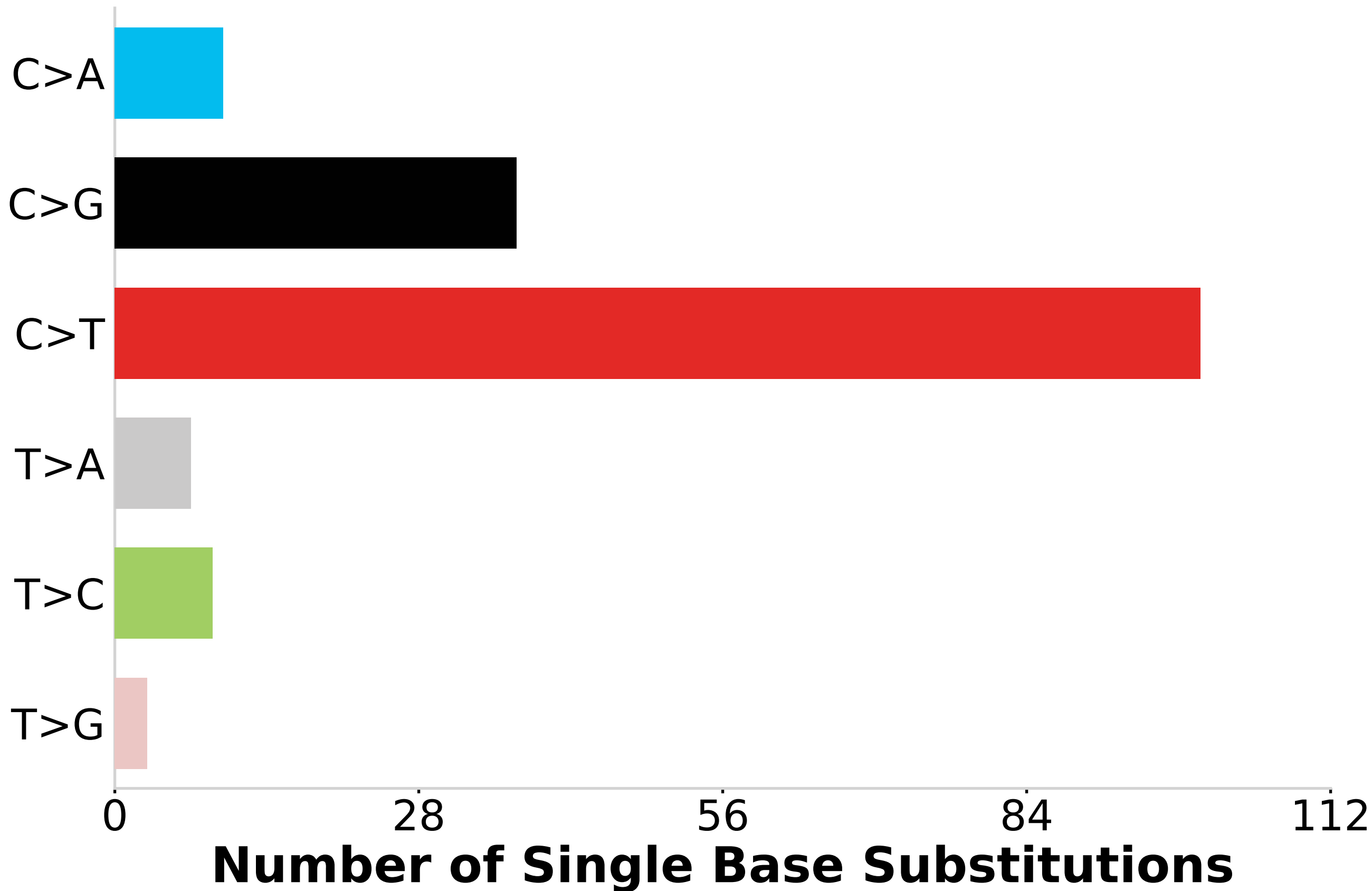
TCGA-FD-A6TF-01A-52D-A32B-08: 136 sub



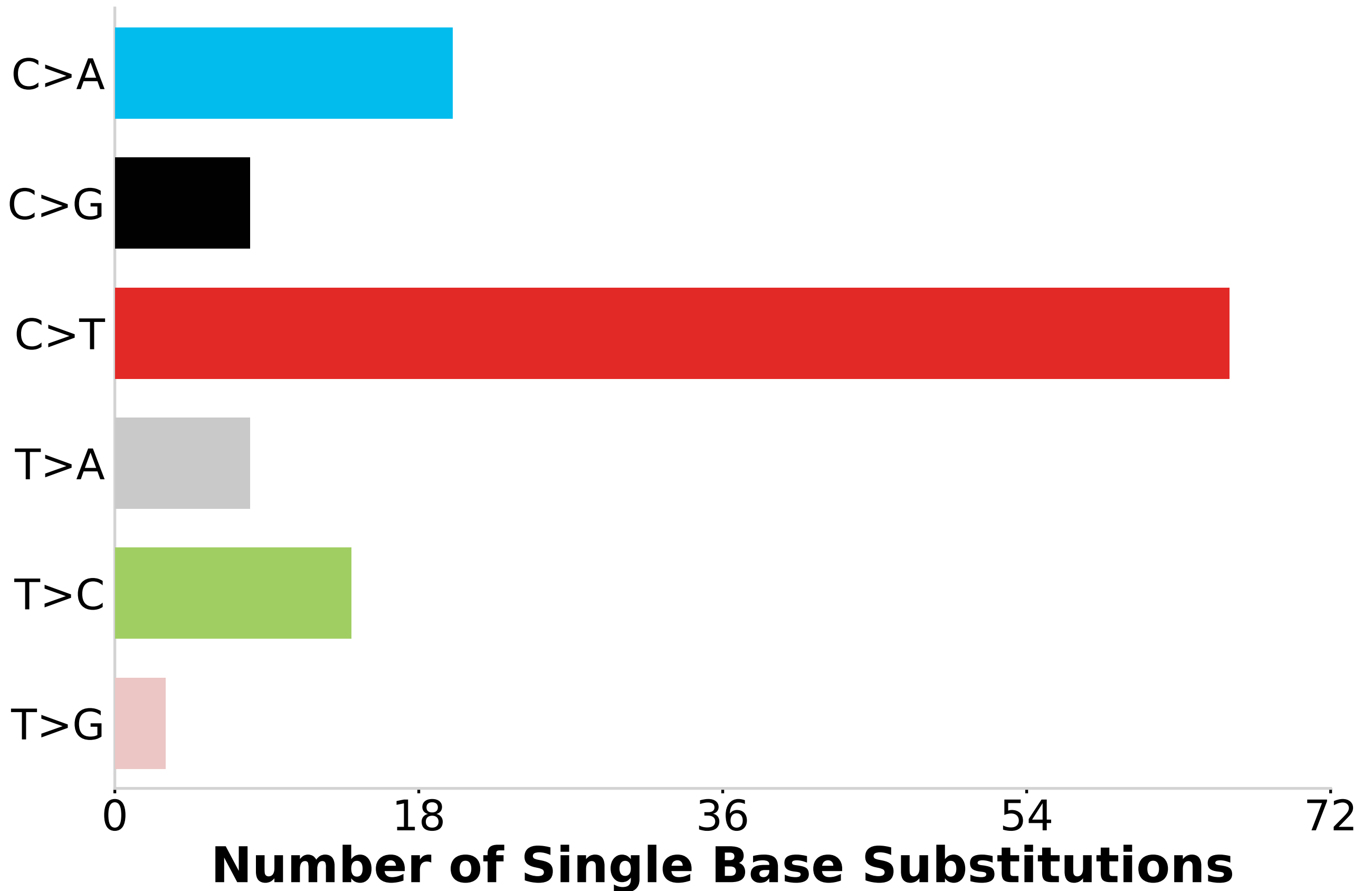
TCGA-FD-A6TG-01A-11D-A32B-08: 363 sub



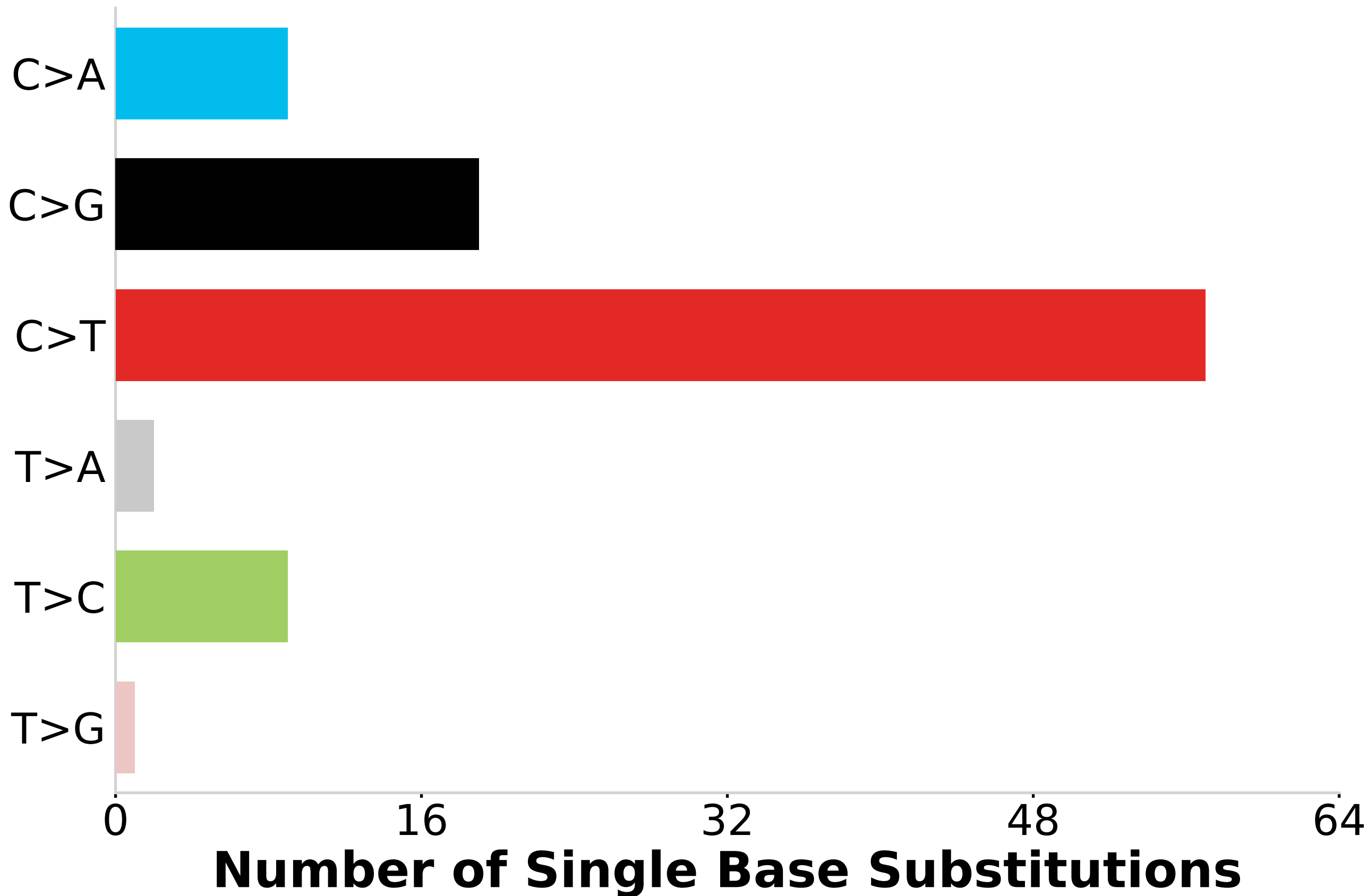
TCGA-FD-A6TH-01A-11D-A32B-08: 166 sub



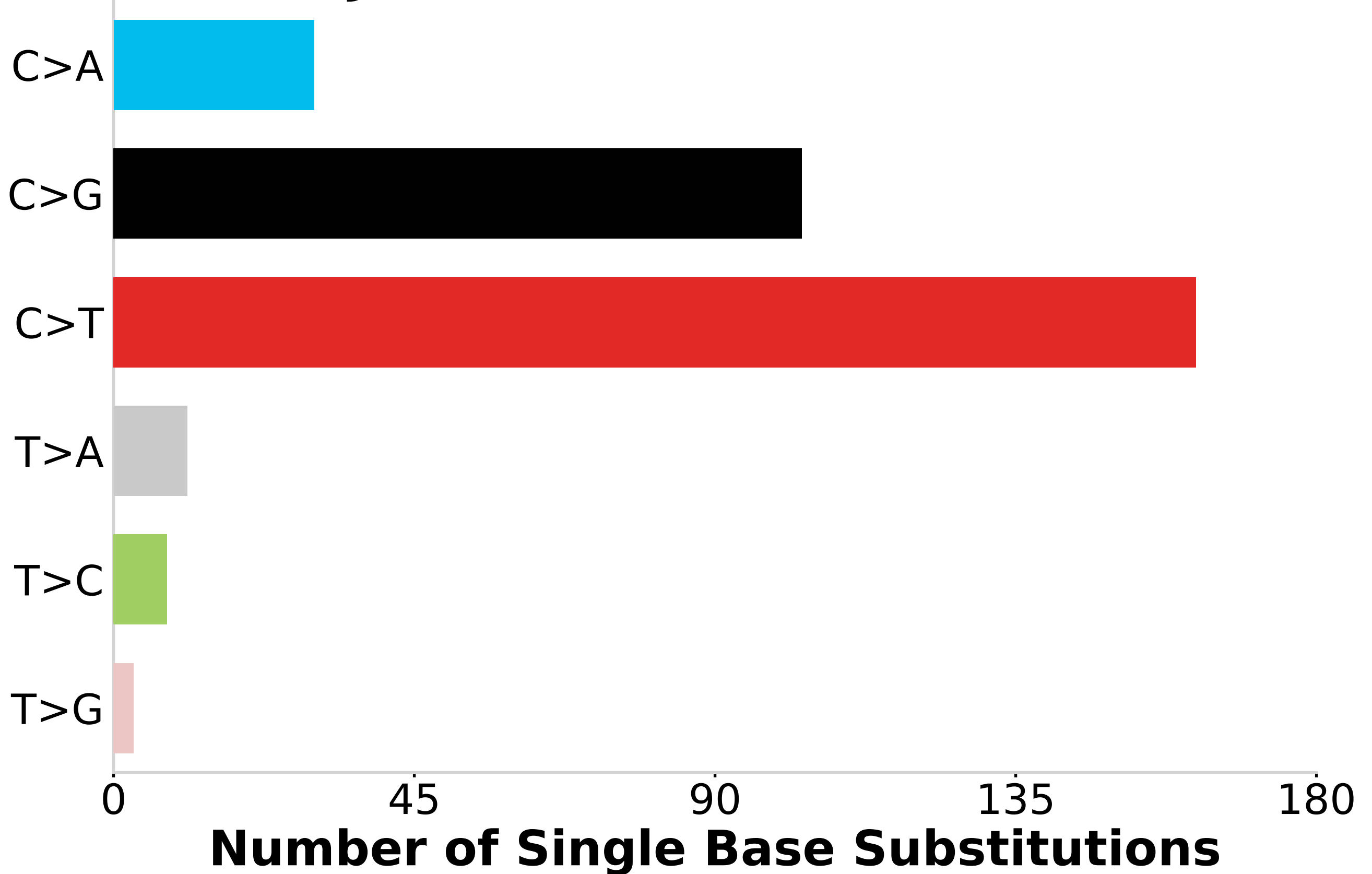
TCGA-FD-A6TI-01A-11D-A32B-08: 119 subs



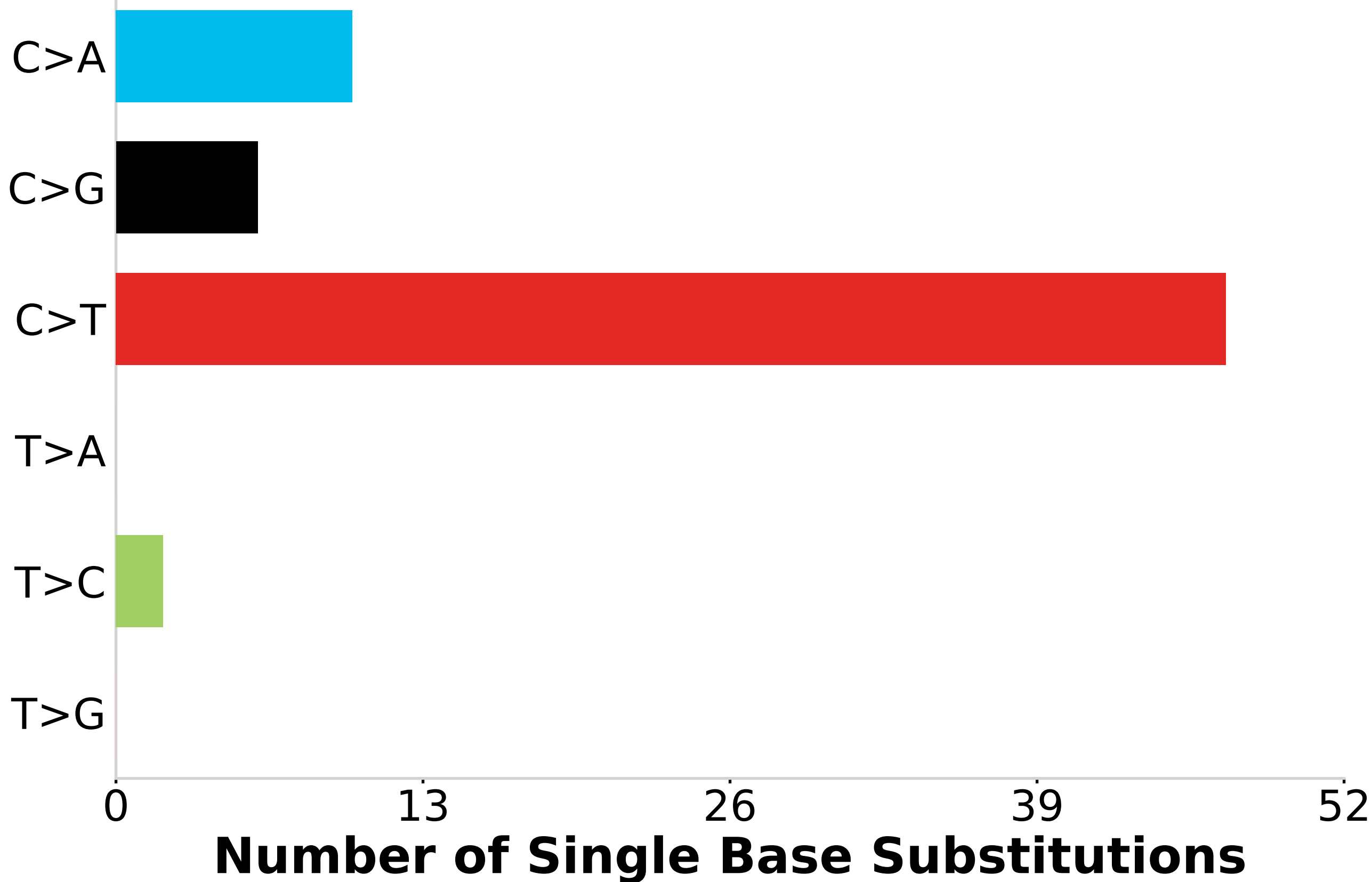
TCGA-FD-A6TK-01A-42D-A339-08: 97 subs



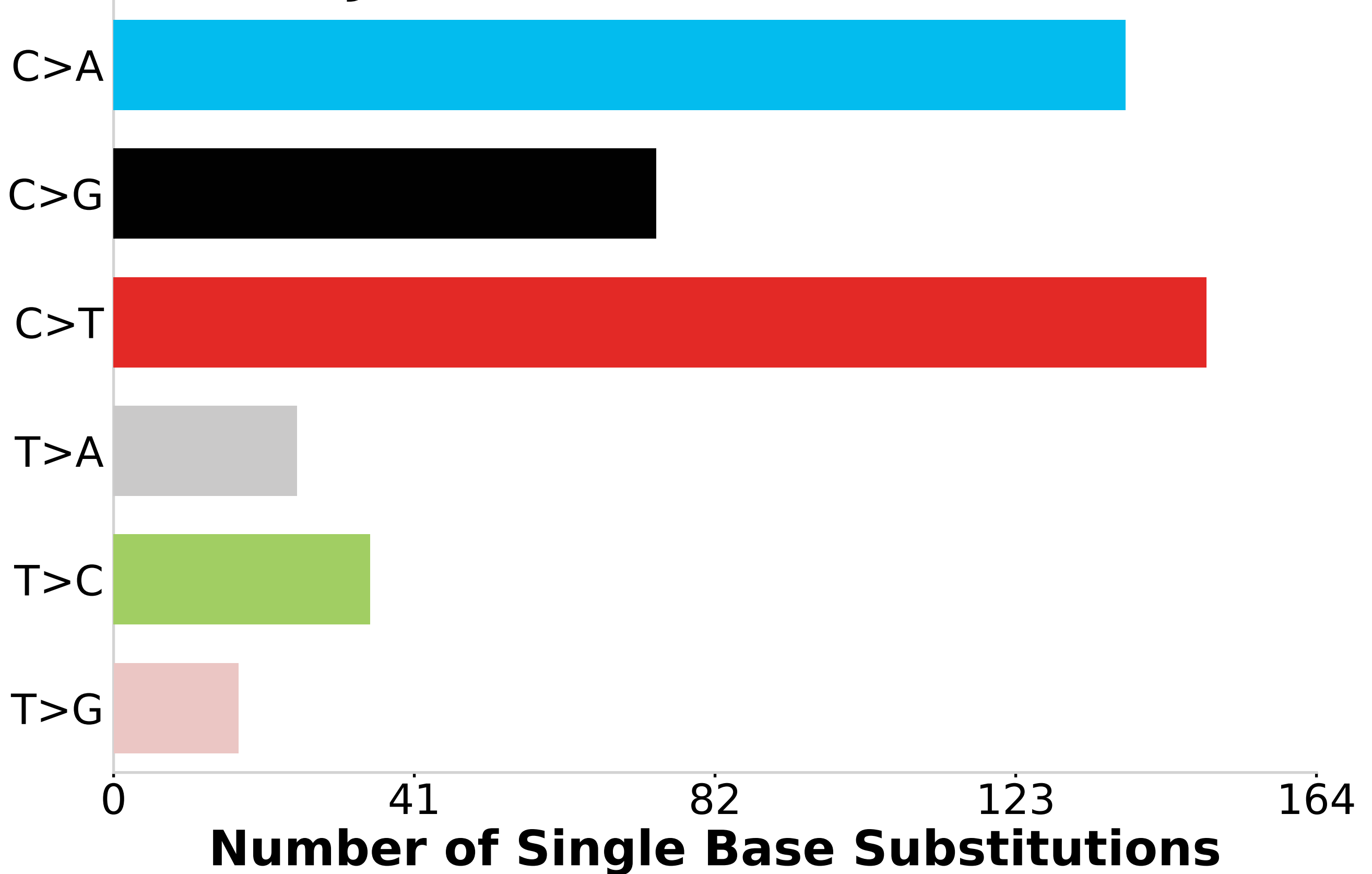
TCGA-FJ-A3Z7-01A-12D-A23M-08: 317 sub



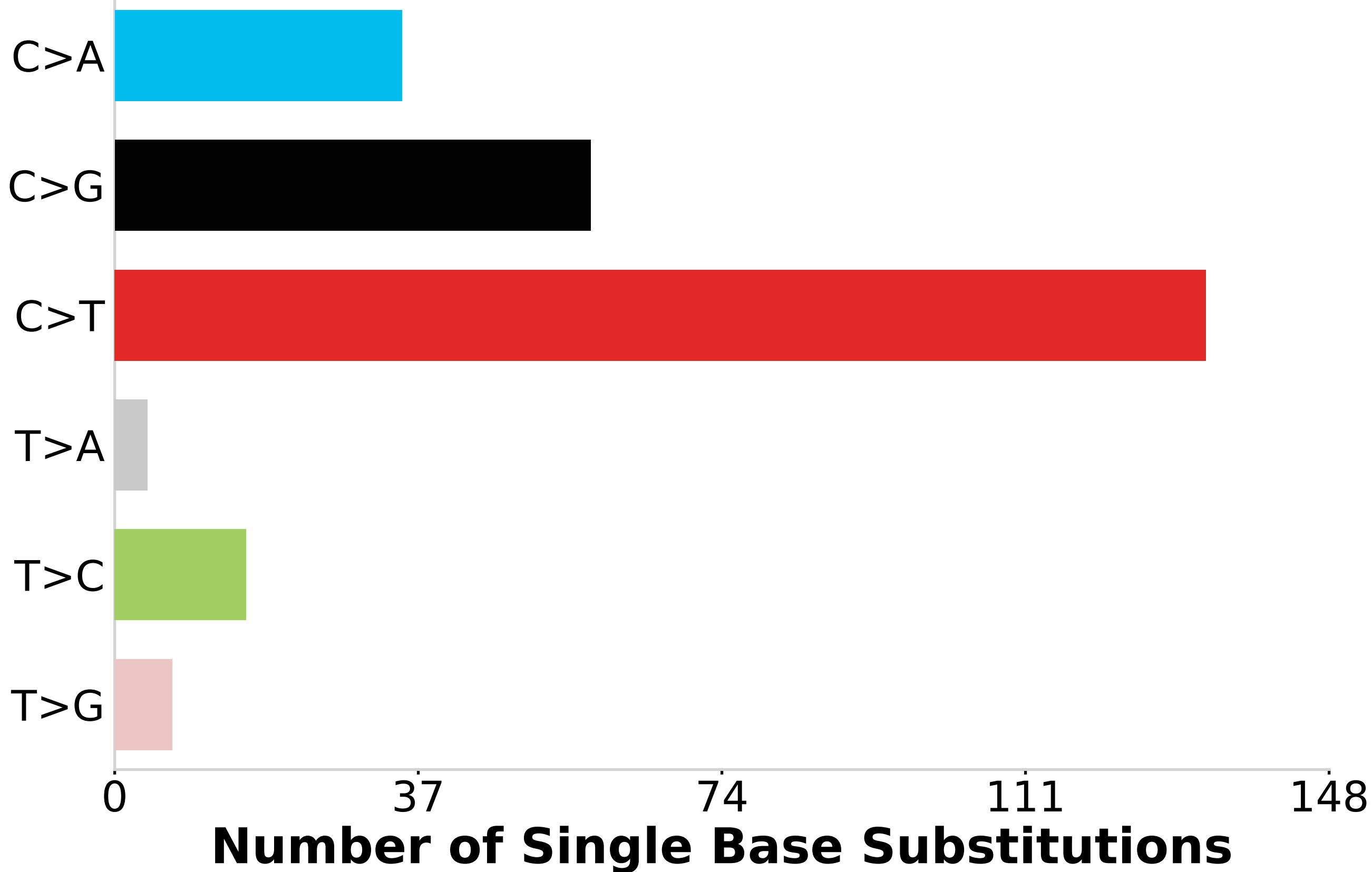
TCGA-FJ-A3Z9-01A-11D-A26M-08: 65 subs



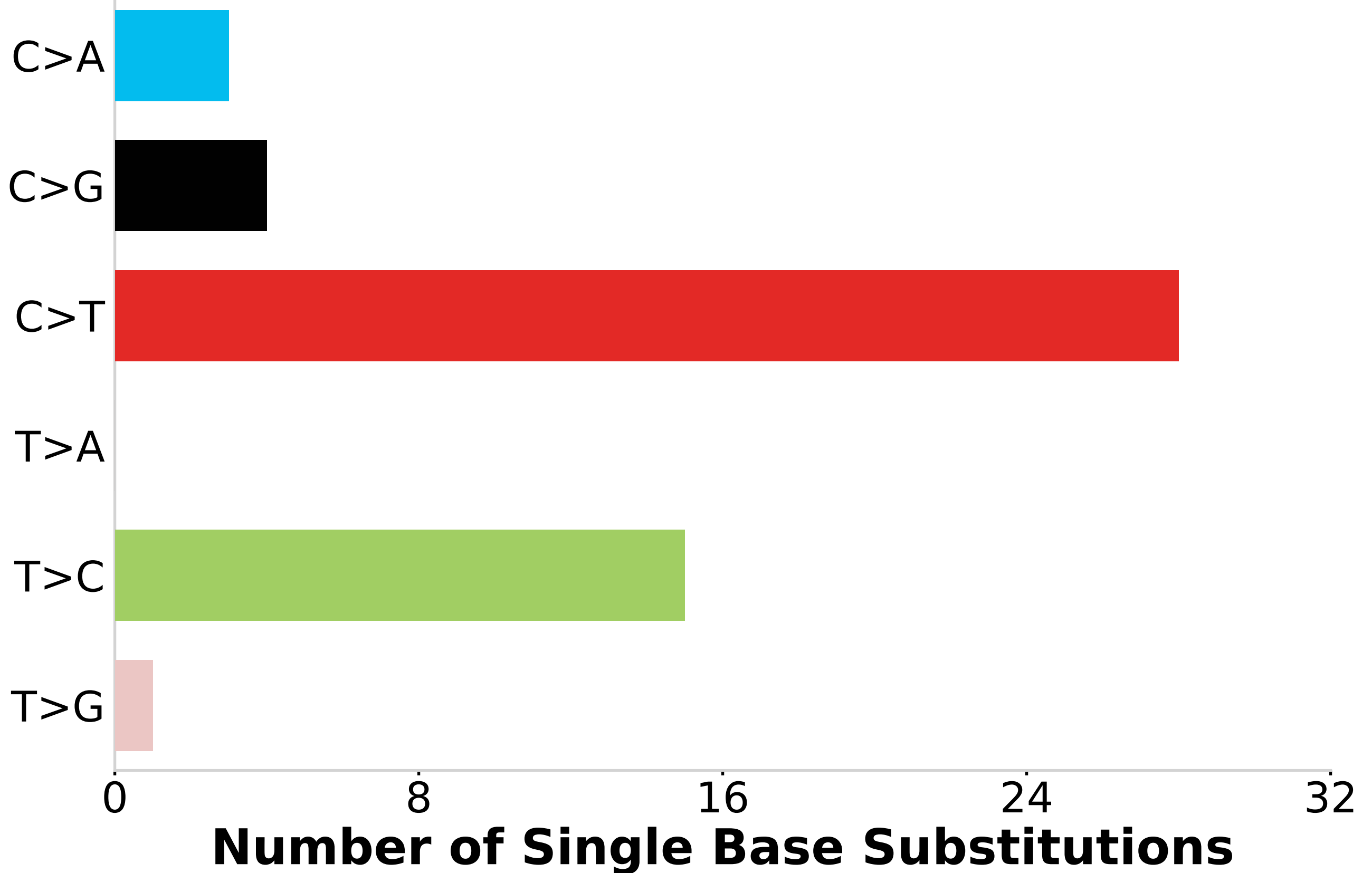
TCGA-FJ-A3ZE-01A-11D-A23M-08: 438 sub



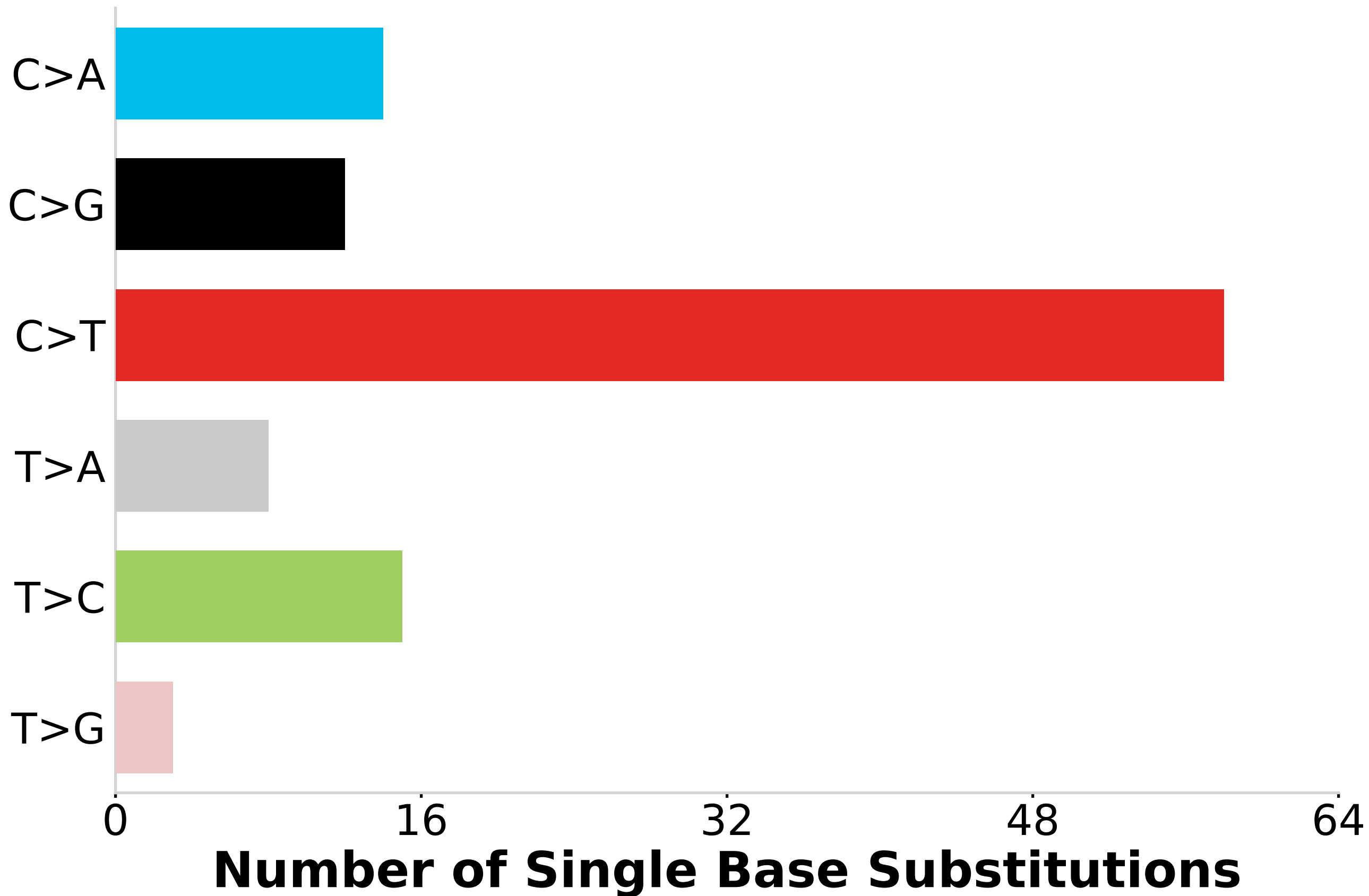
TCGA-FJ-A3ZF-01A-11D-A23M-08: 253 sub



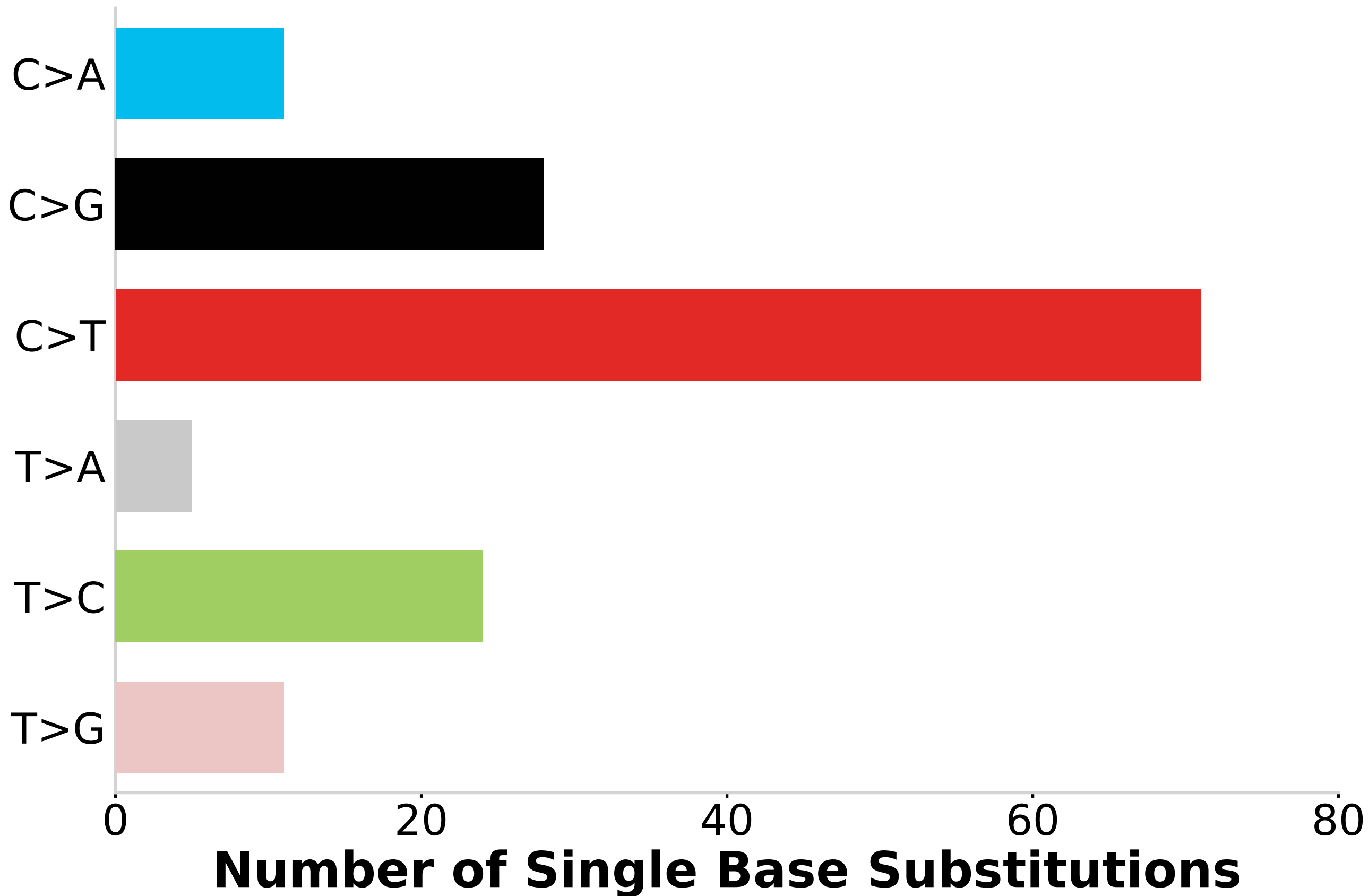
TCGA-FJ-A871-01A-11D-A34U-08: 51 subs



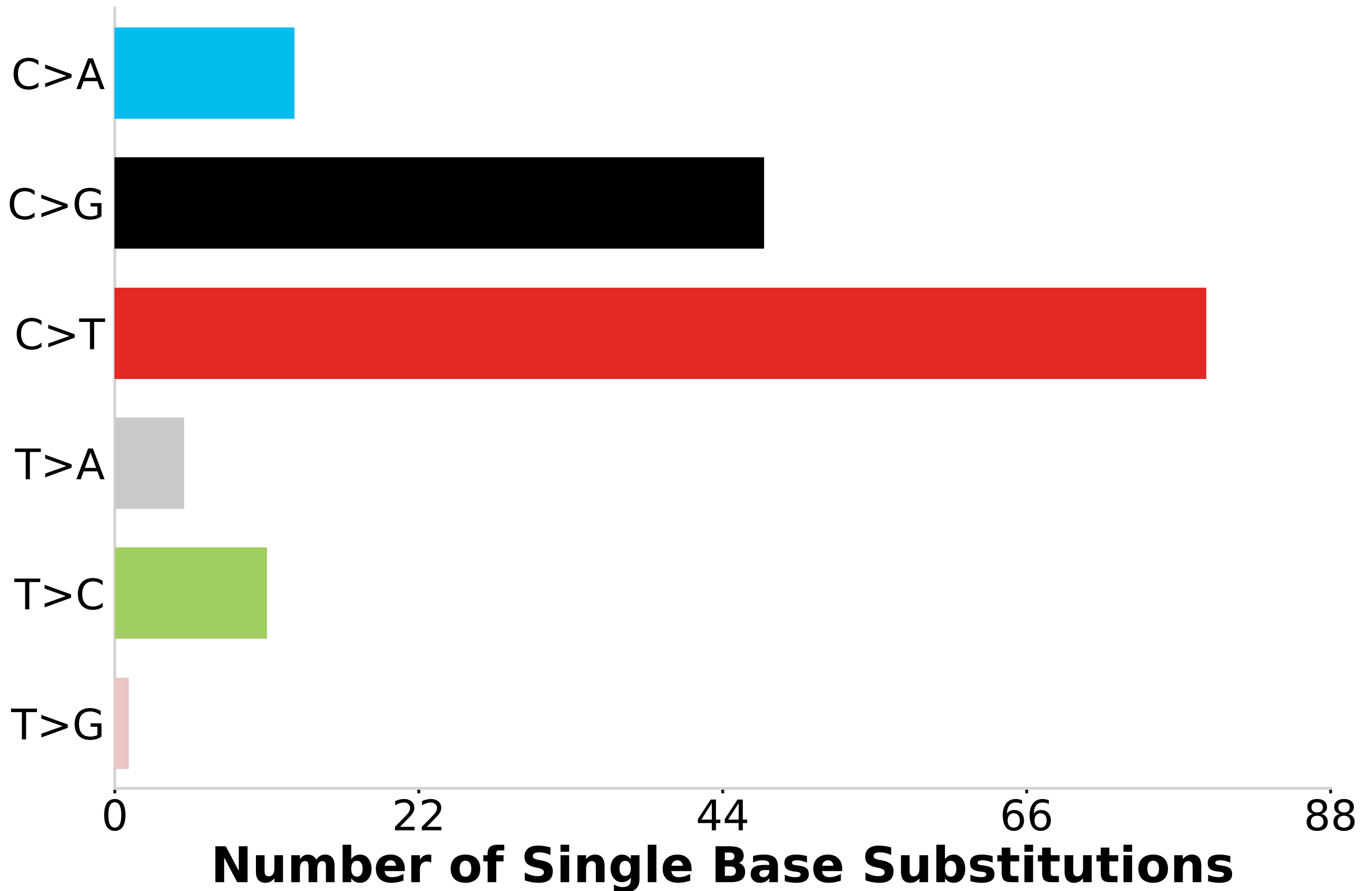
TCGA-FT-A3EE-01A-11D-A202-08: 110 subs



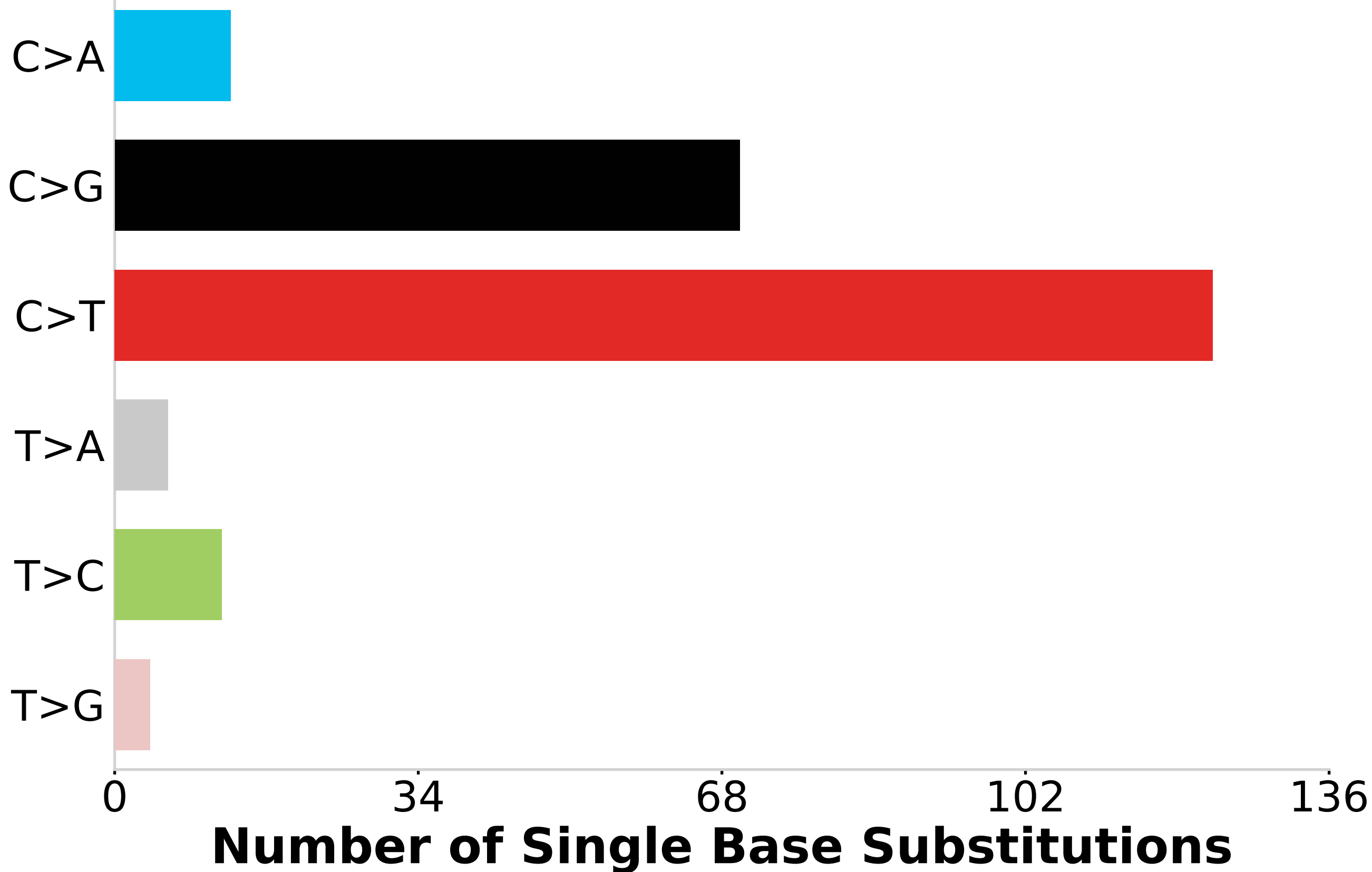
TCGA-FT-A61P-01A-11D-A30E-08: 150 subs



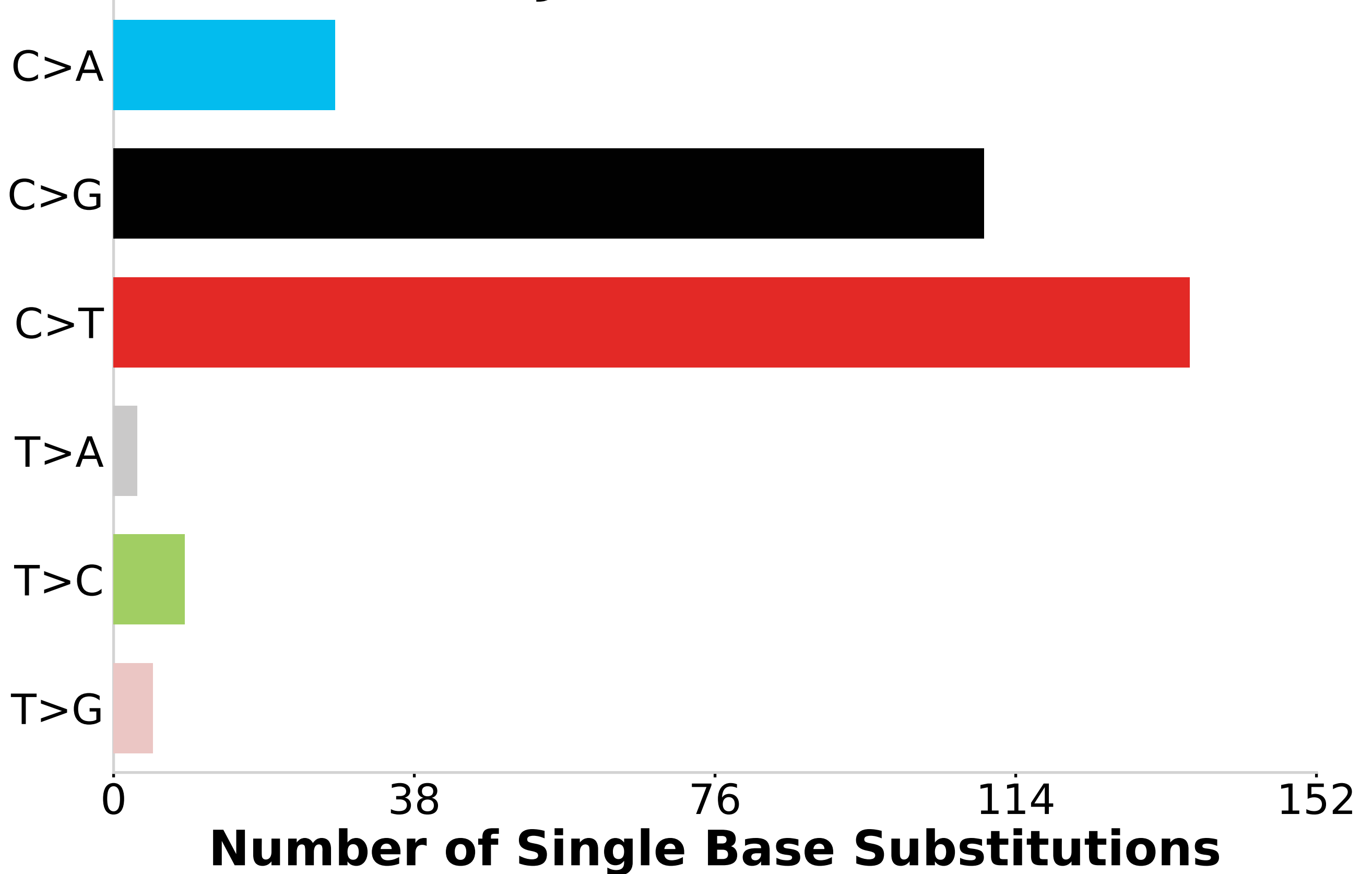
TCGA-G2-A2EC-01A-11D-A17V-08: 156 sub



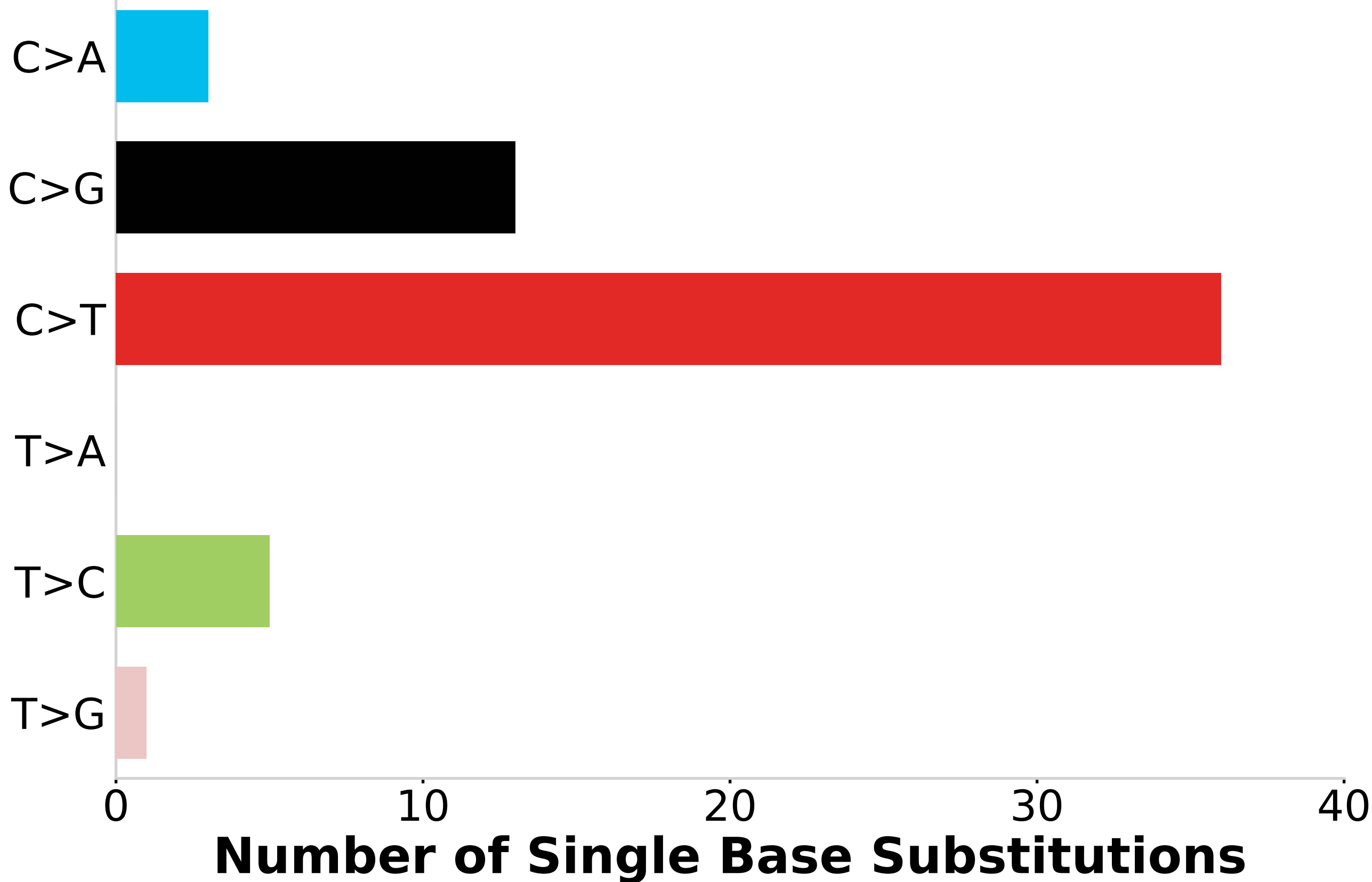
TCGA-G2-A2EF-01A-12D-A18F-08: 228 sub



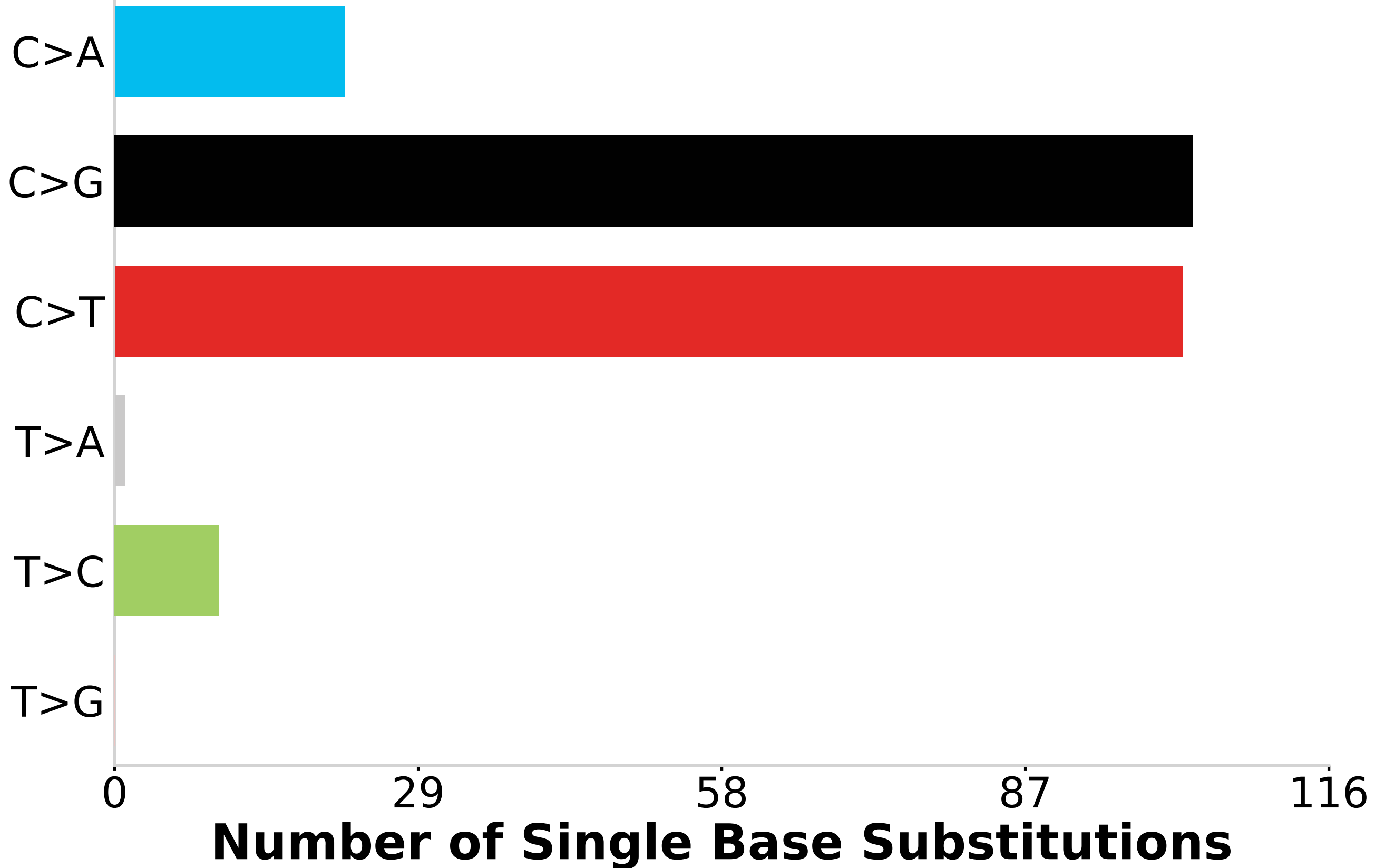
TCGA-G2-A2EJ-01A-11D-A17V-08: 291 subs



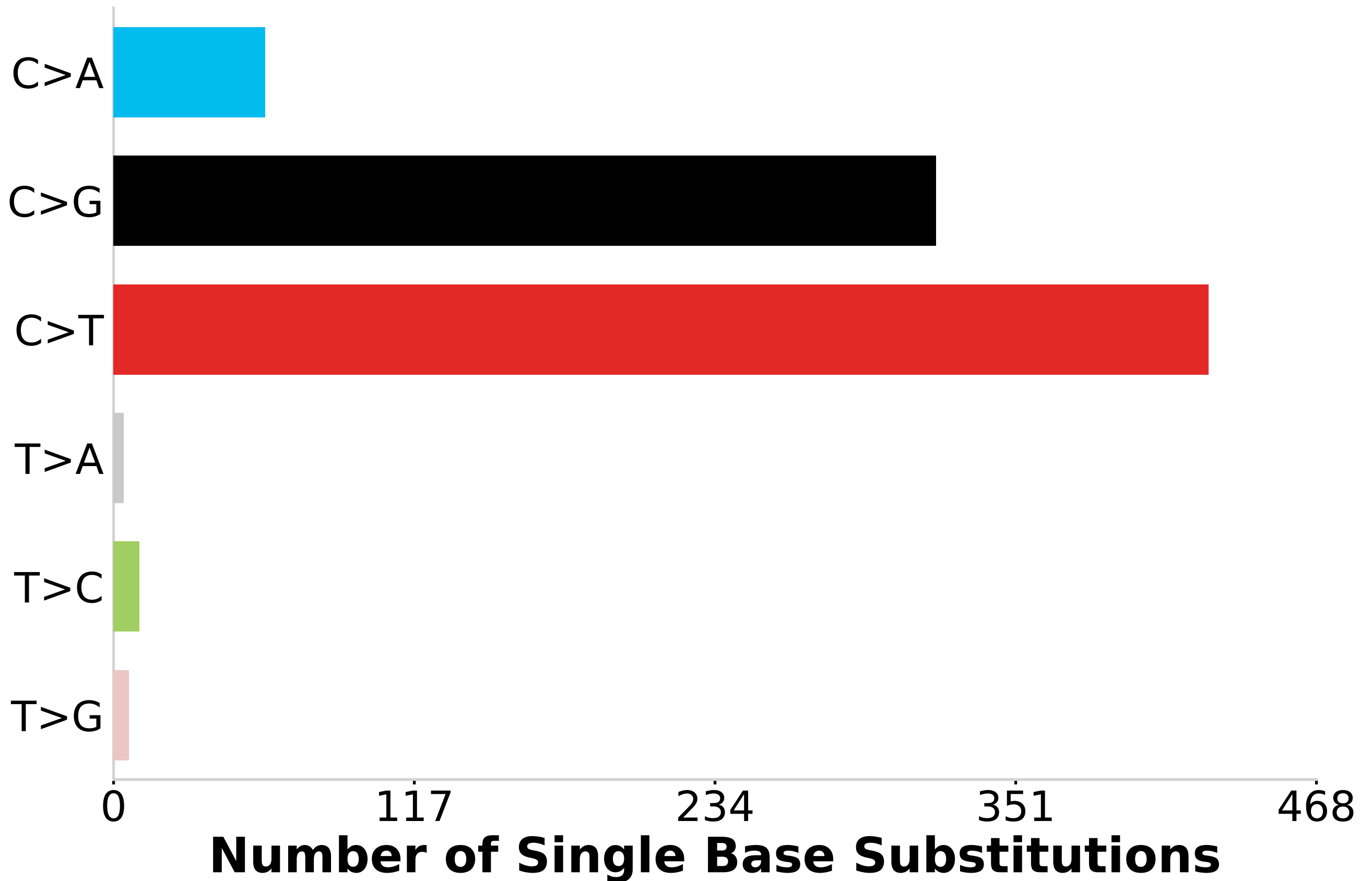
TCGA-G2-A2EK-01A-22D-A18F-08: 58 subs



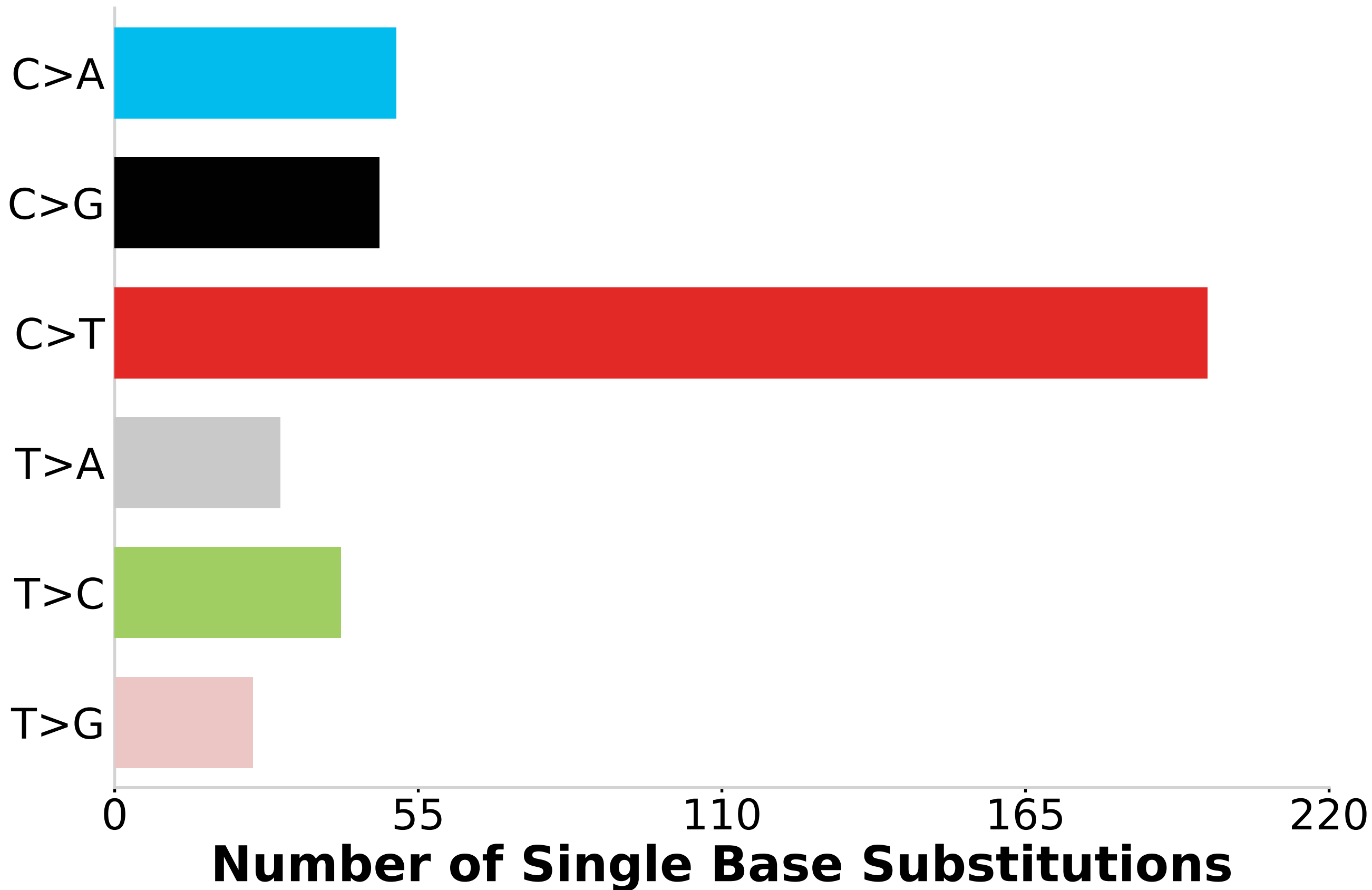
TCGA-G2-A2EL-01A-12D-A18F-08: 238 sub



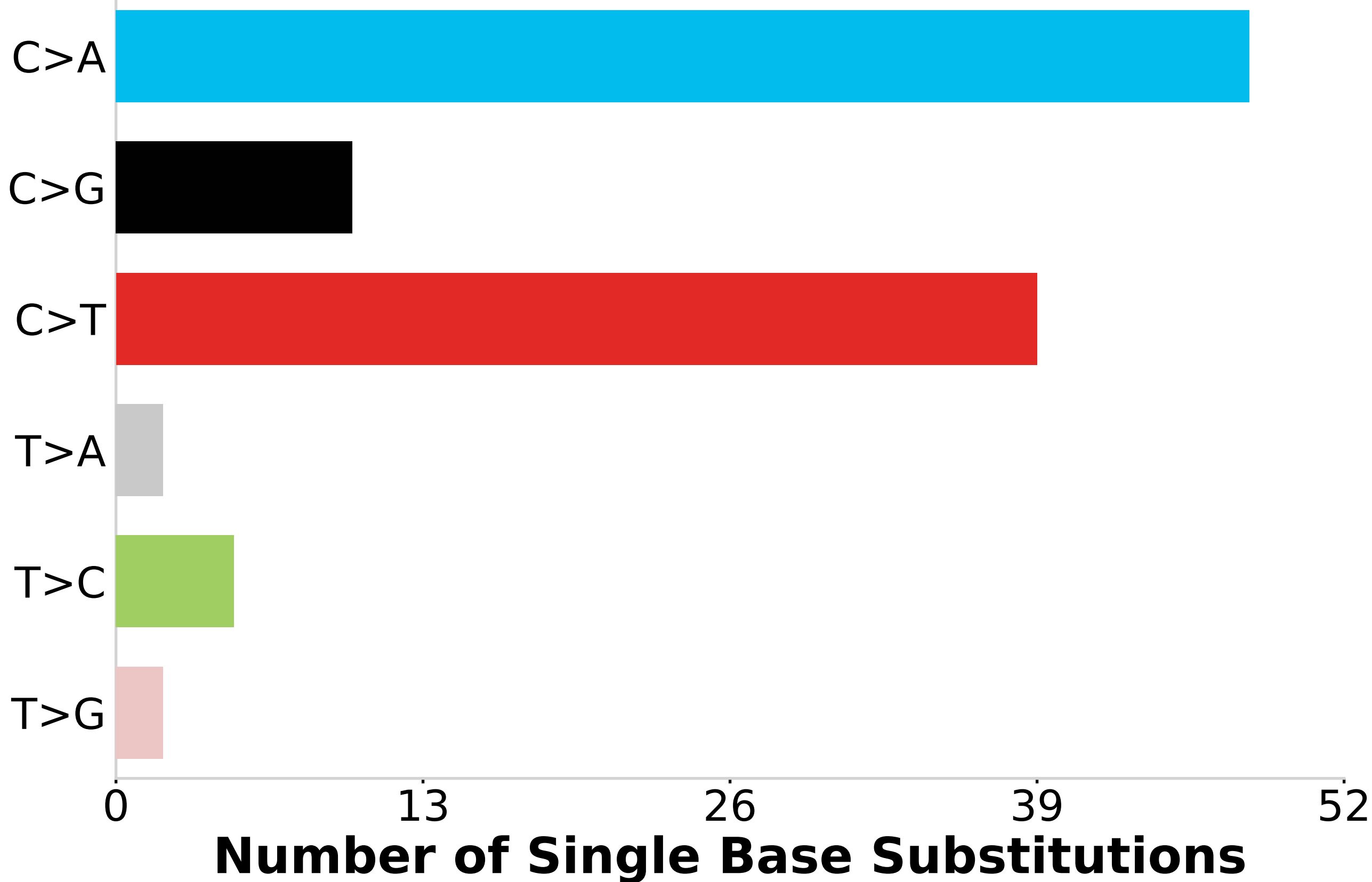
TCGA-G2-A2EO-01A-11D-A17V-08: 825 sub



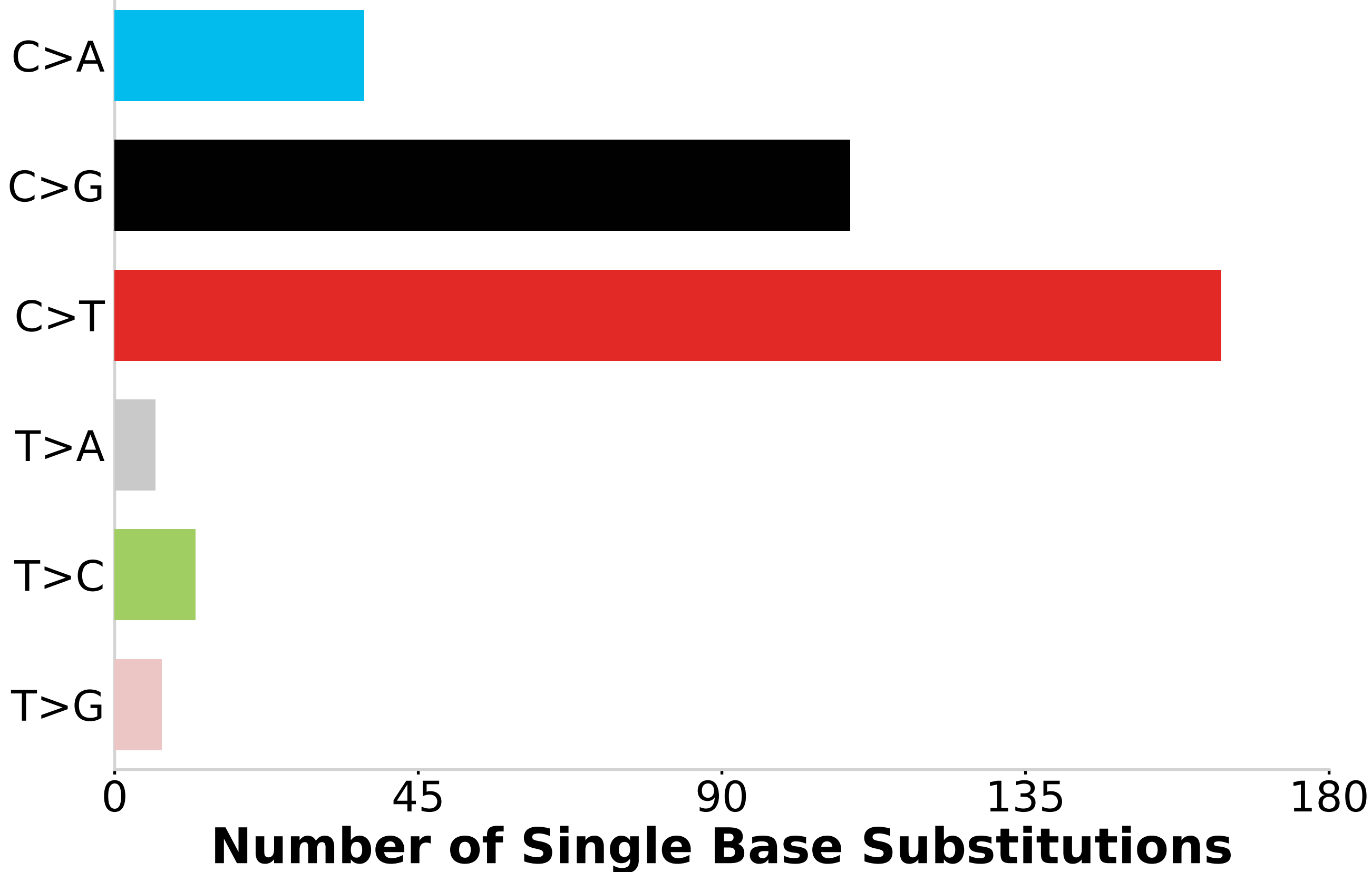
TCGA-G2-A2ES-01A-11D-A17V-08: 393 sub



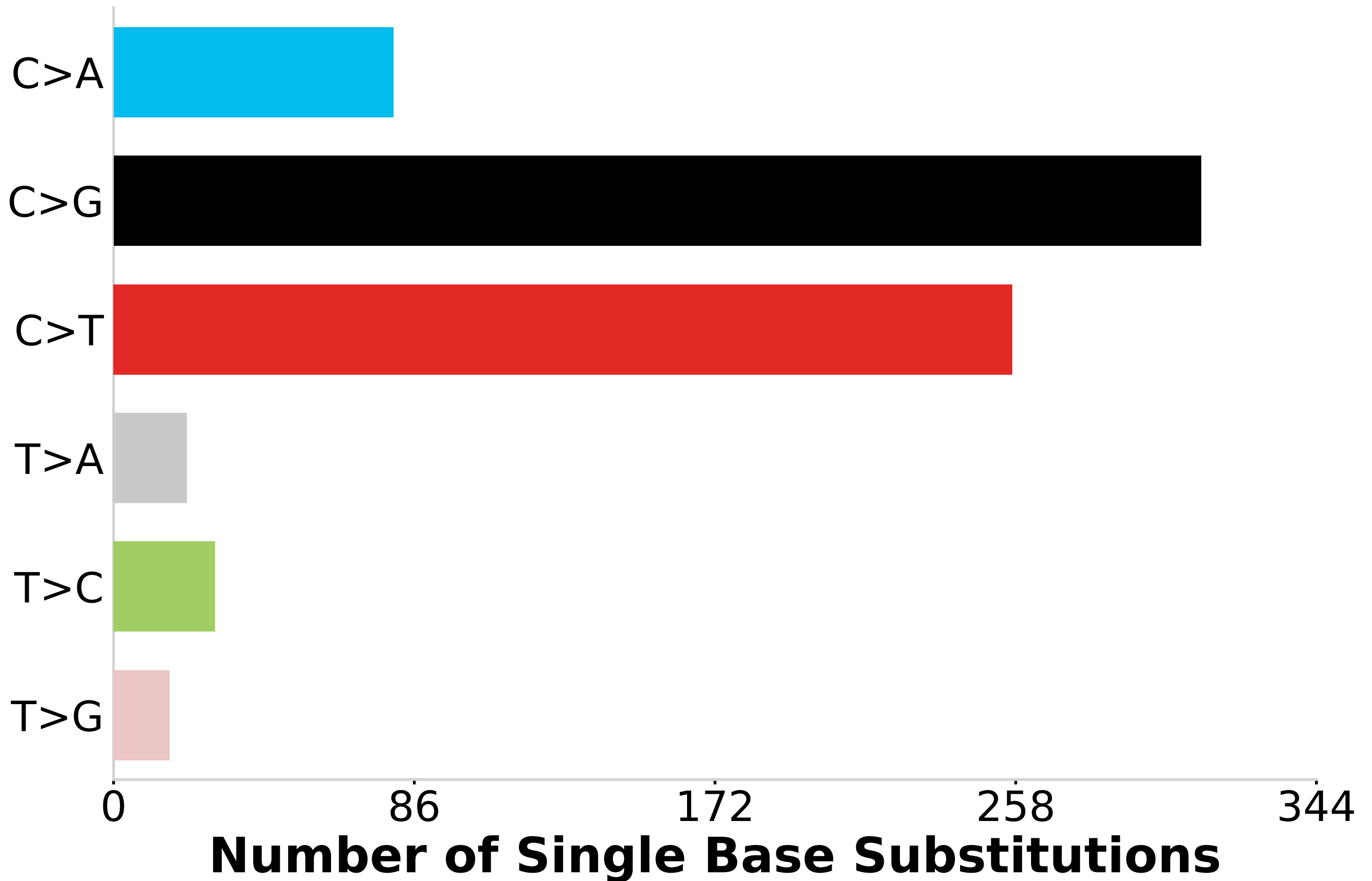
TCGA-G2-A3IB-01A-11D-A20D-08: 106 sub



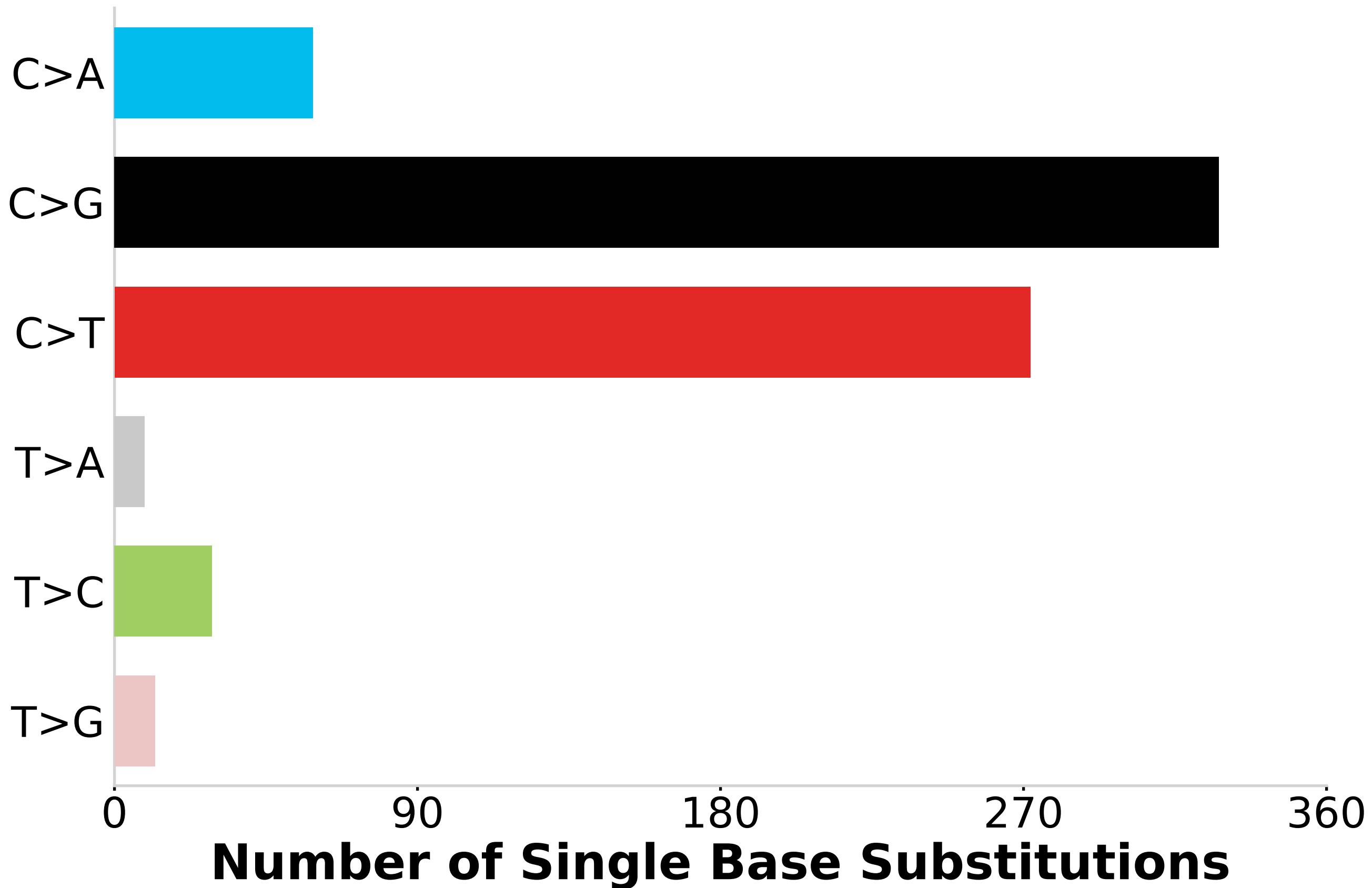
TCGA-G2-A3IE-01A-11D-A20D-08: 335 sub



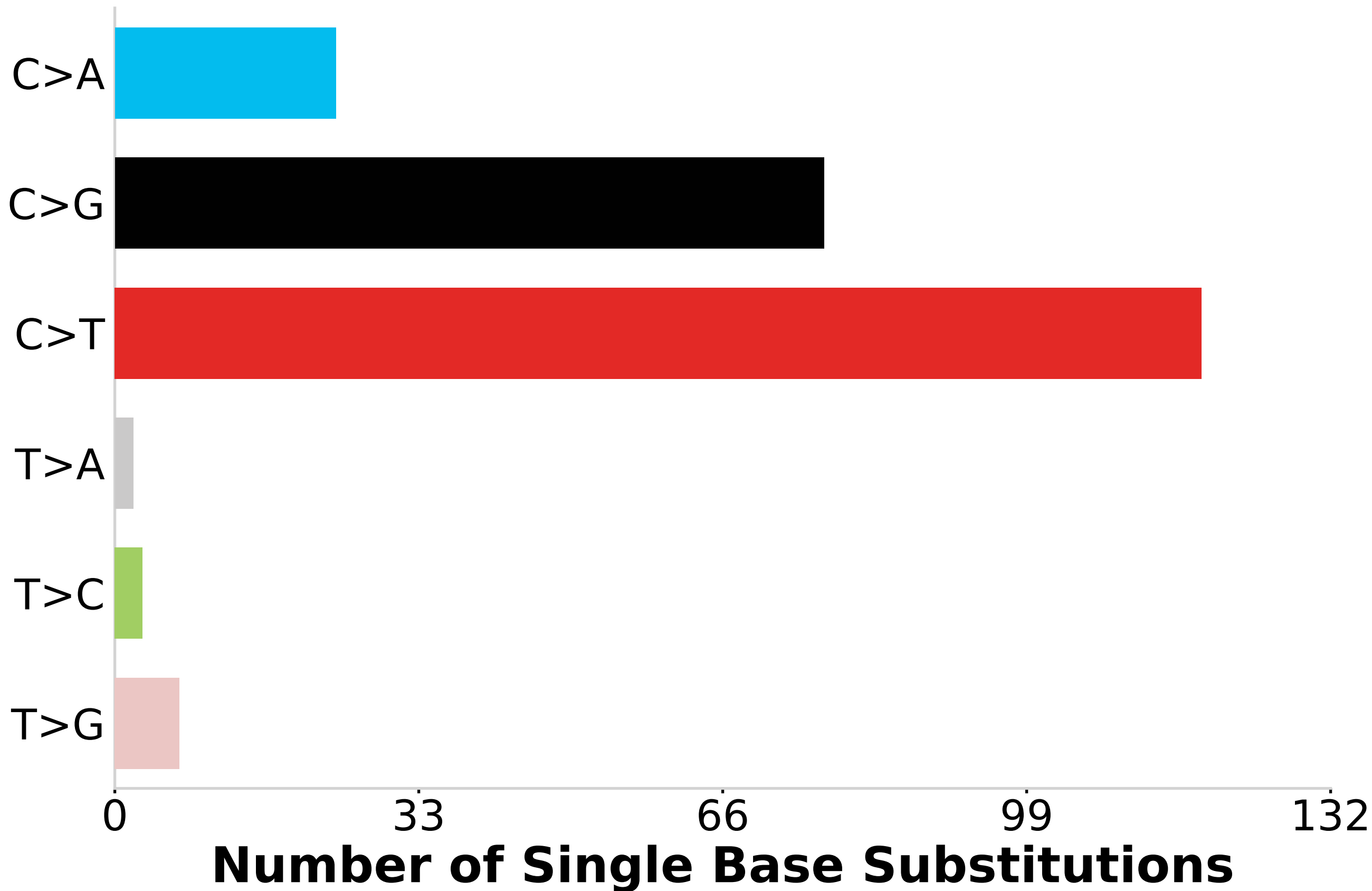
TCGA-G2-A3VY-01A-11D-A22Z-08: 714 sub



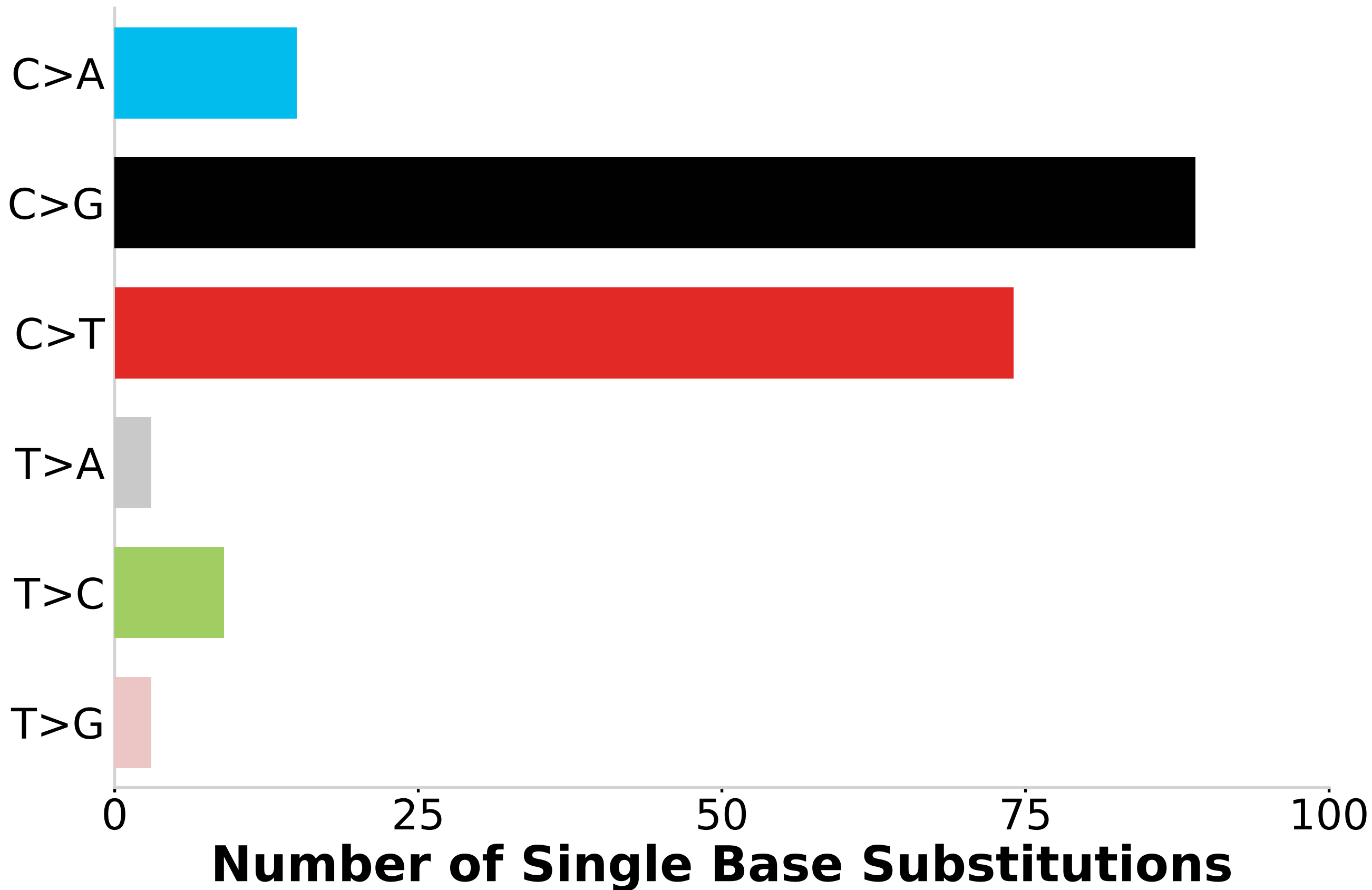
TCGA-G2-AA3B-01A-11D-A391-08: 709 sub



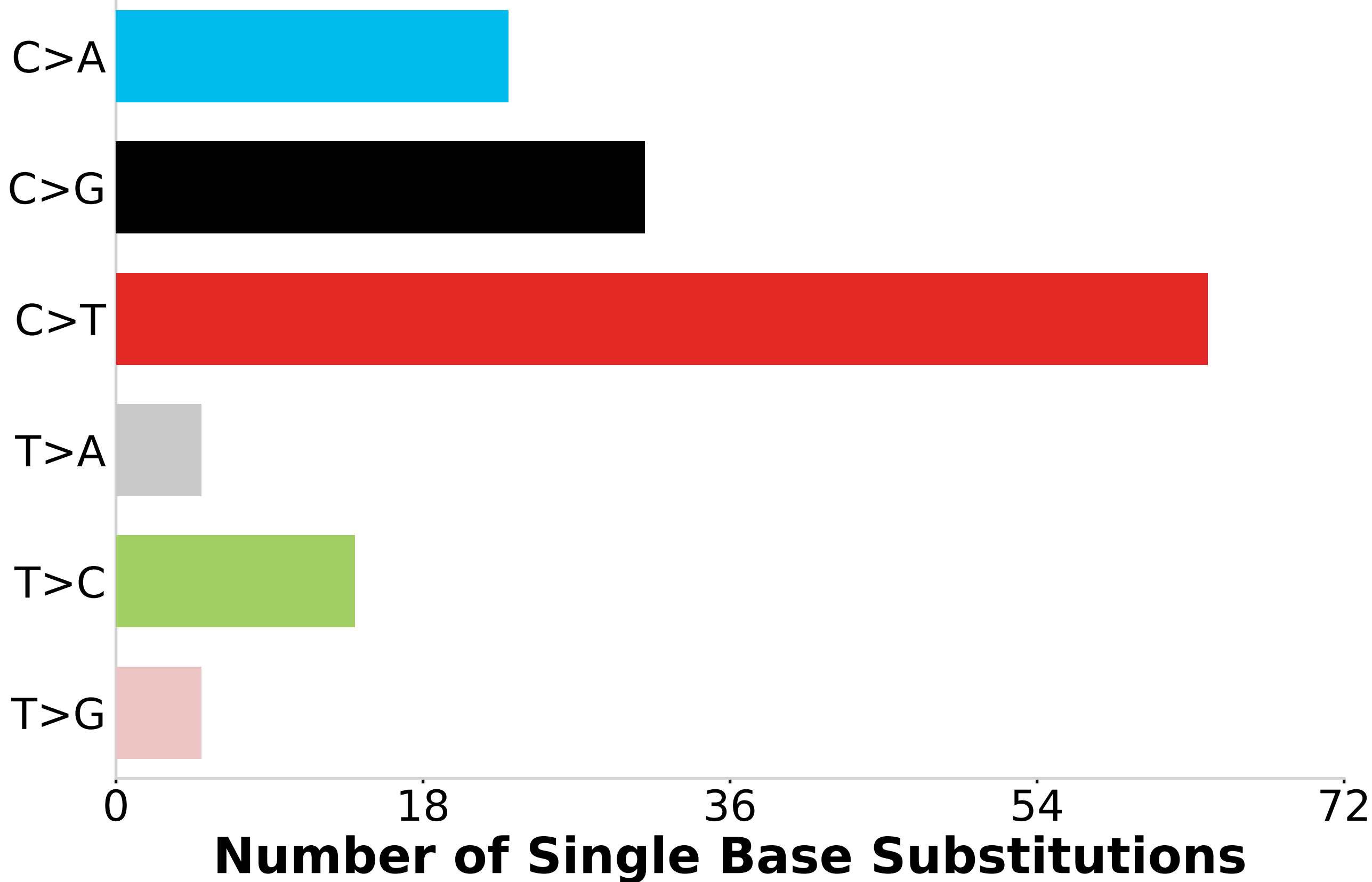
TCGA-G2-AA3C-01A-21D-A391-08: 231 sub



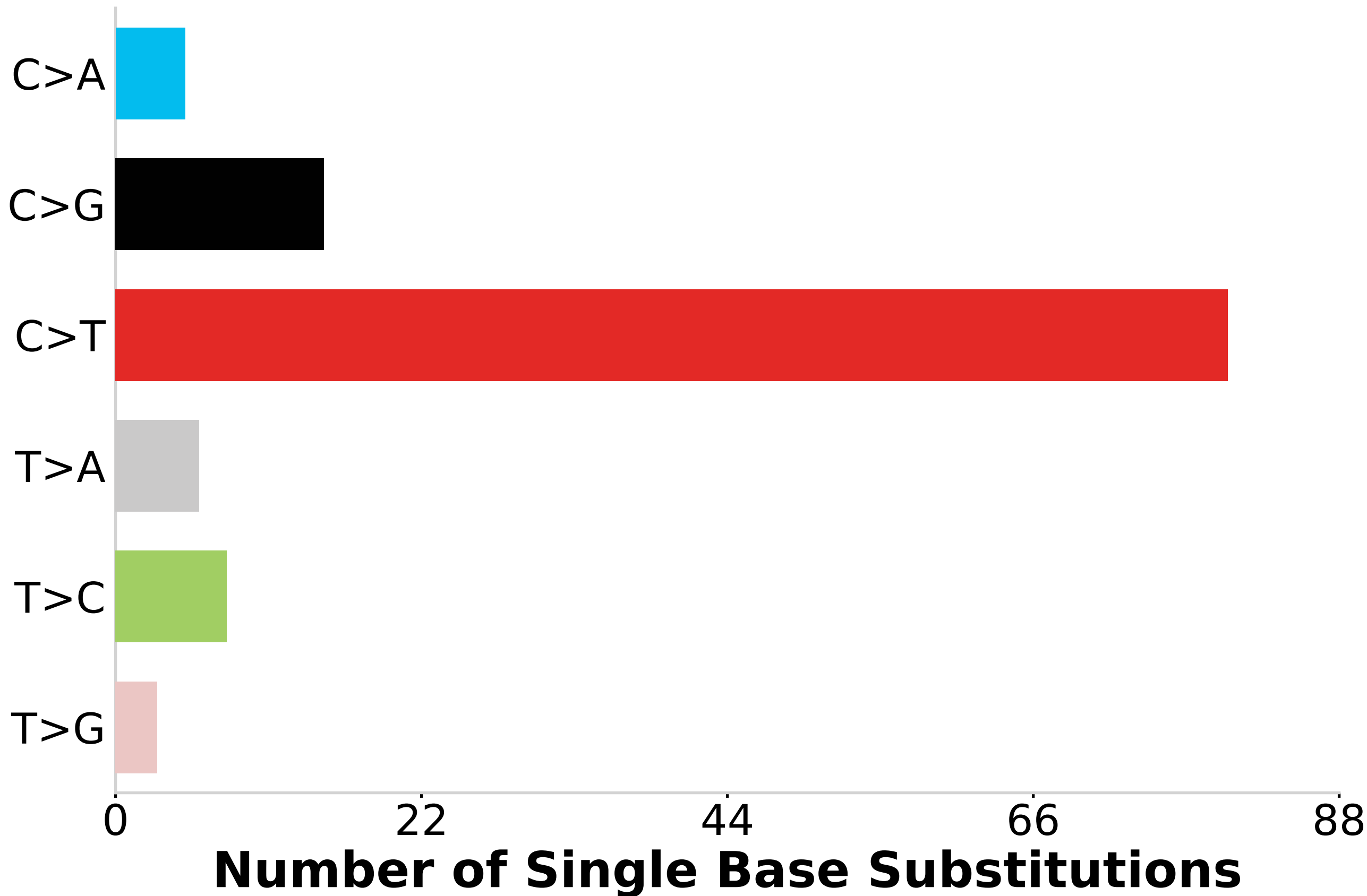
TCGA-G2-AA3D-01A-11D-A391-08: 193 sub



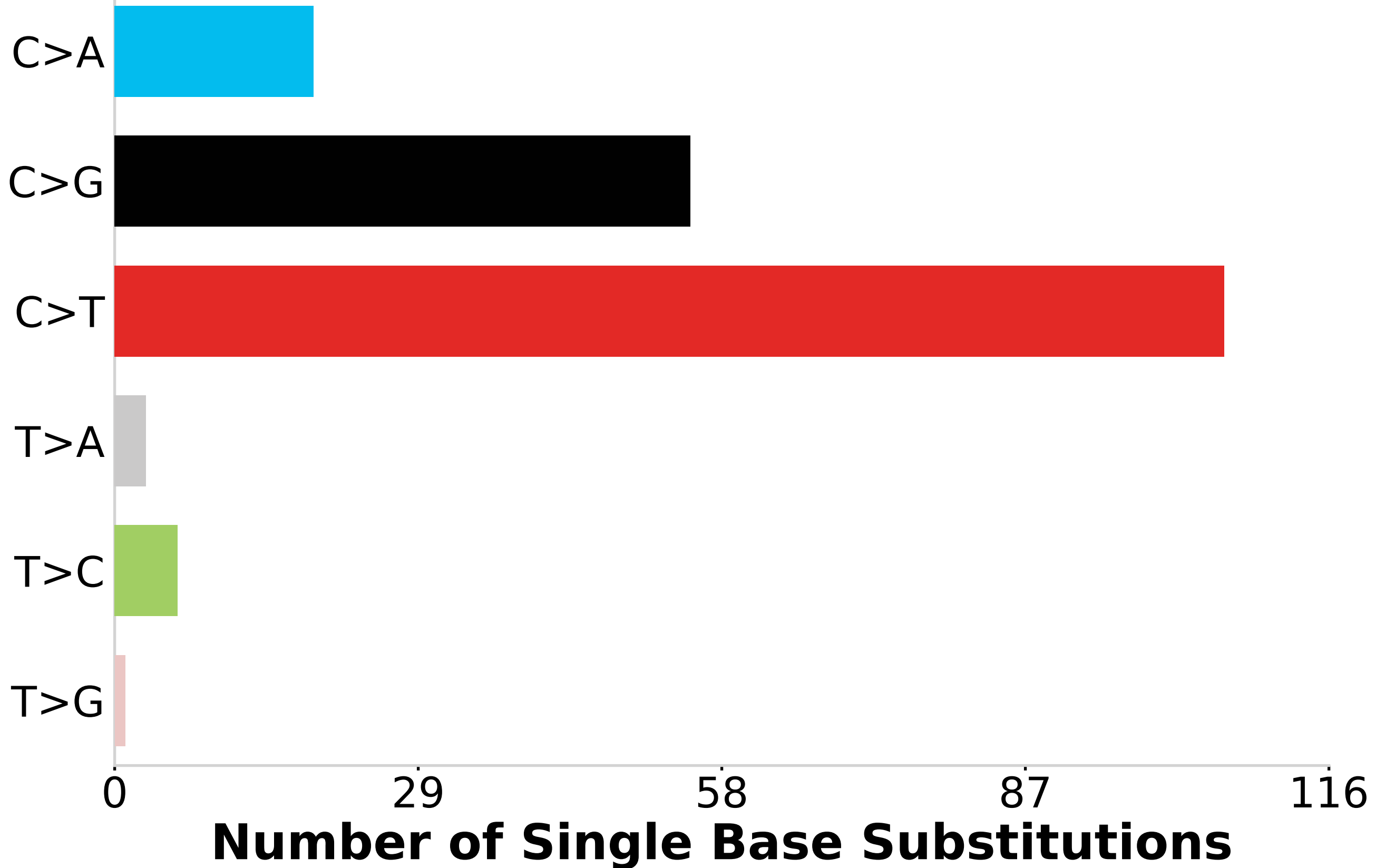
TCGA-G2-AA3F-01A-12D-A42E-08: 142 sub



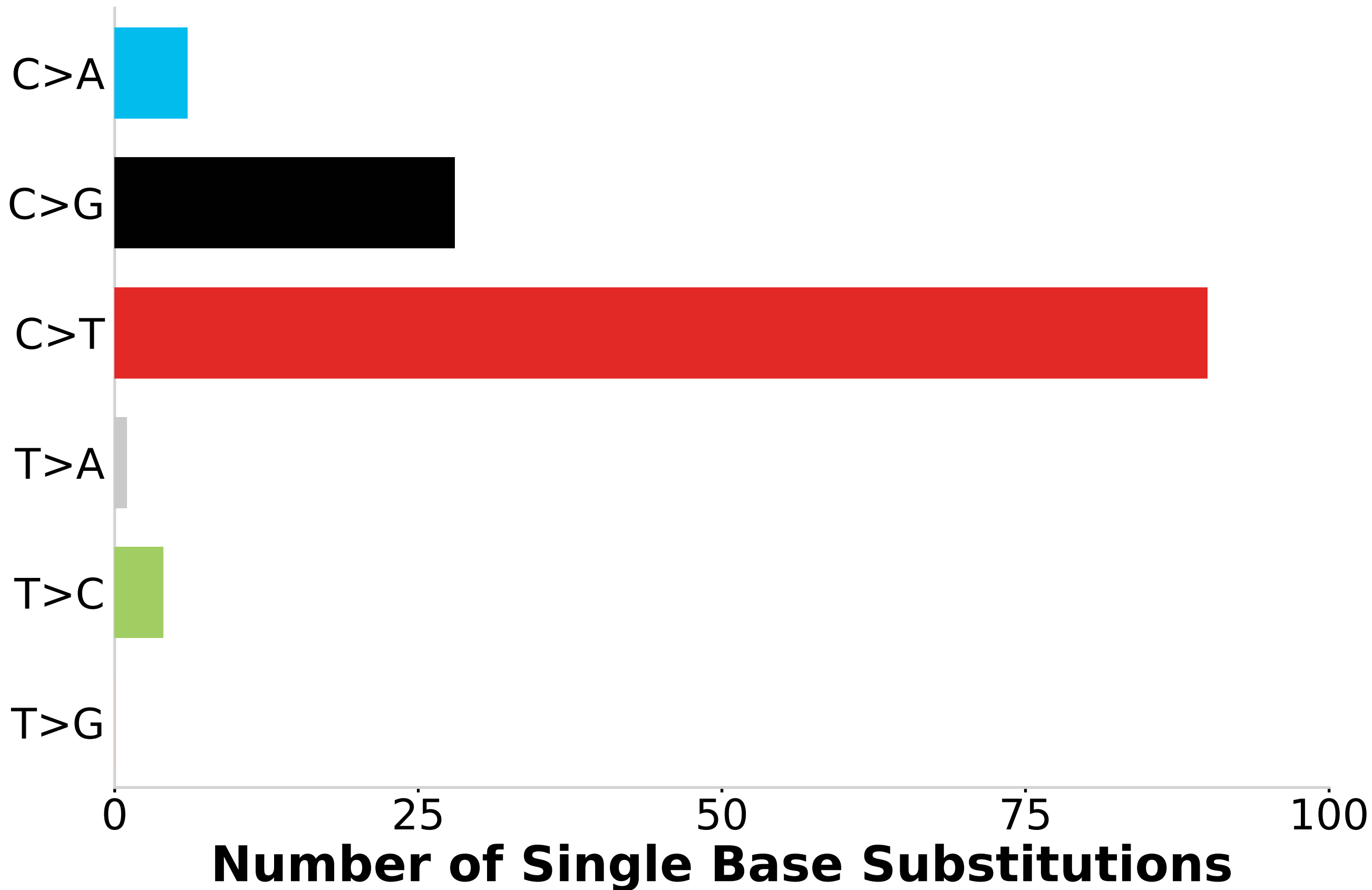
TCGA-GC-A3BM-01A-11D-A22Z-08: 117 sub



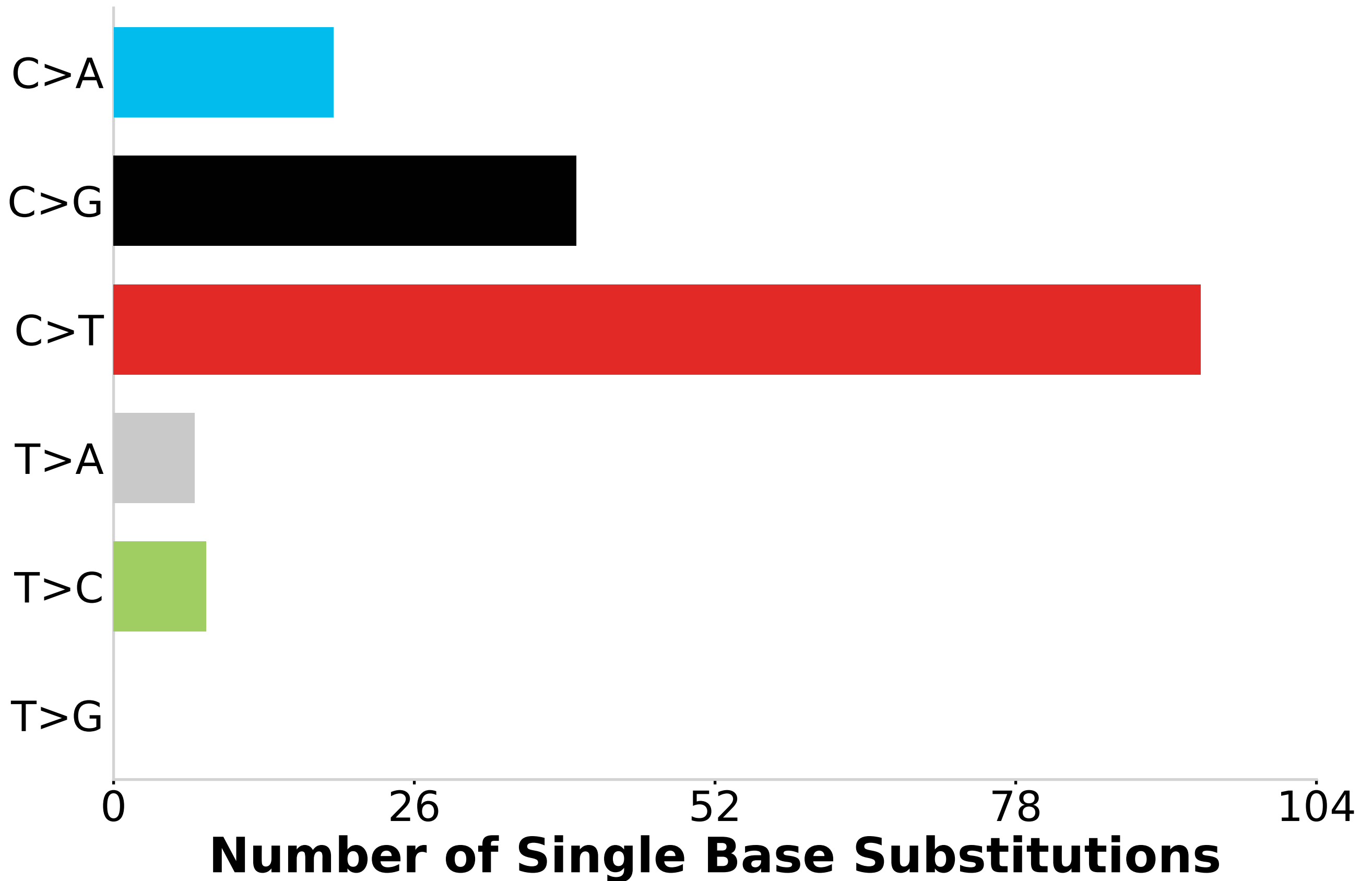
TCGA-GC-A3I6-01A-11D-A20D-08: 190 sub



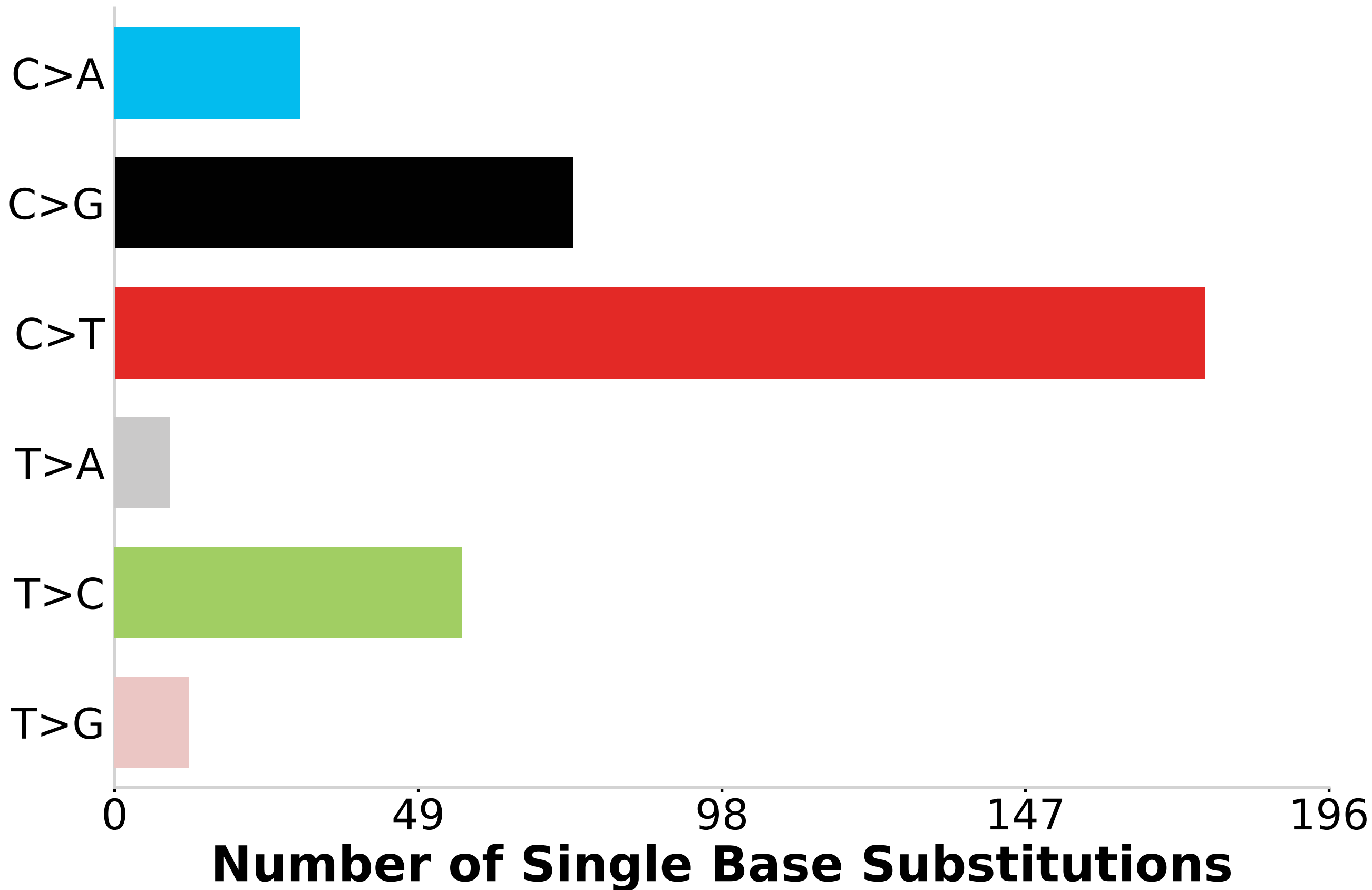
TCGA-GC-A300-01A-11D-A22Z-08: 129 substitutions



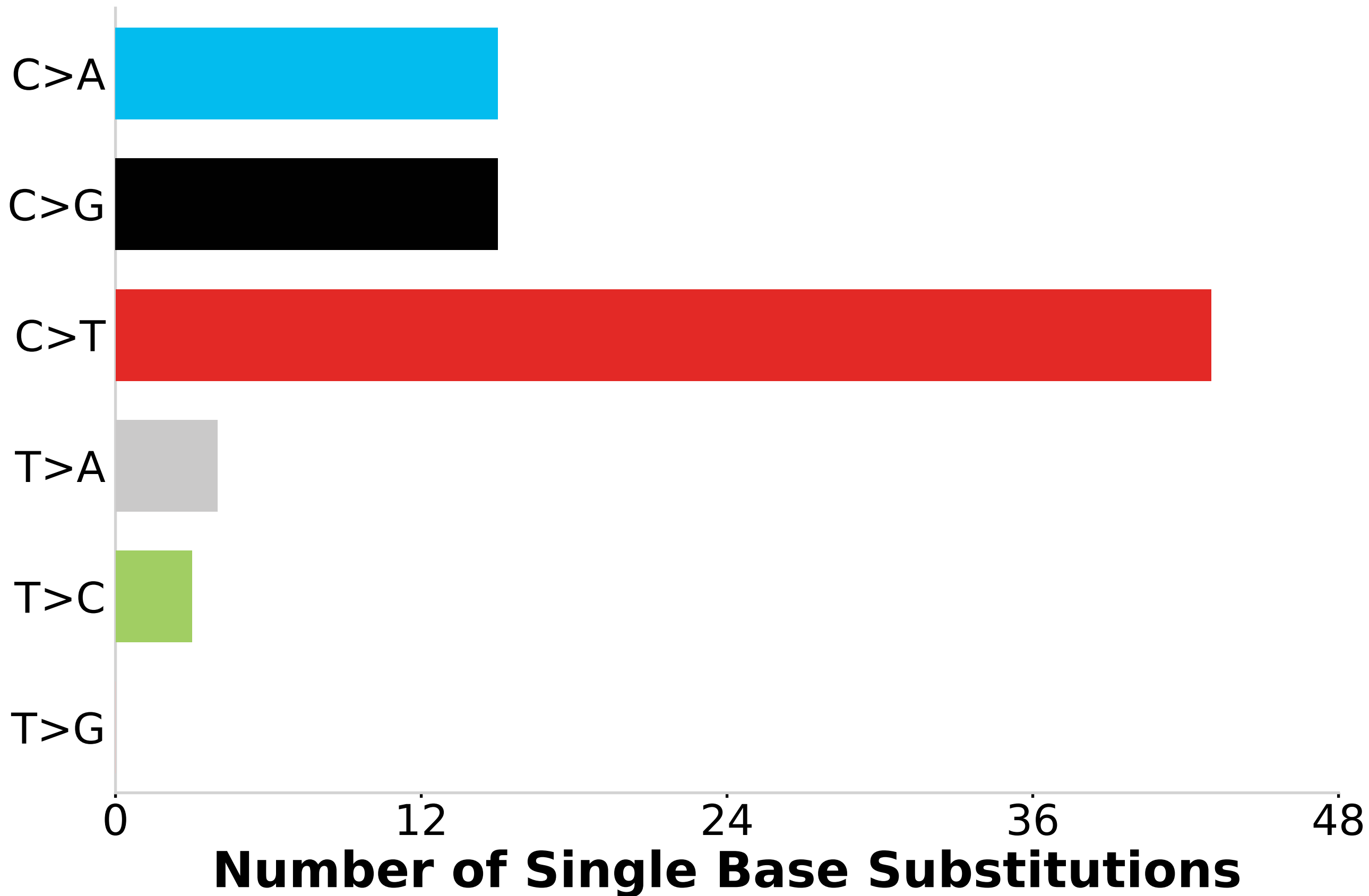
TCGA-GC-A3RB-01A-12D-A21Z-08: 168 sub



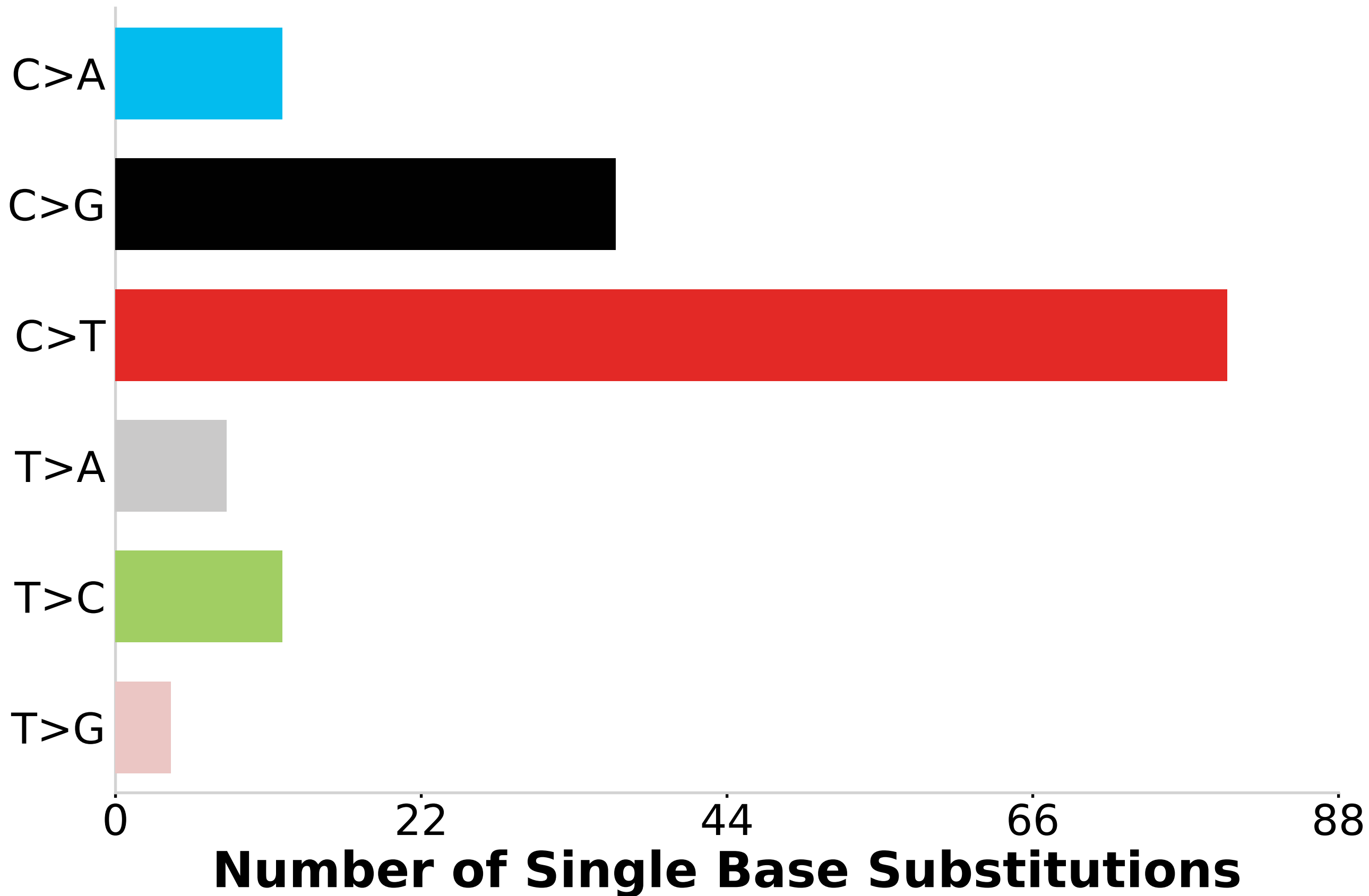
TCGA-GC-A3RC-01A-11D-A22Z-08: 357 sub



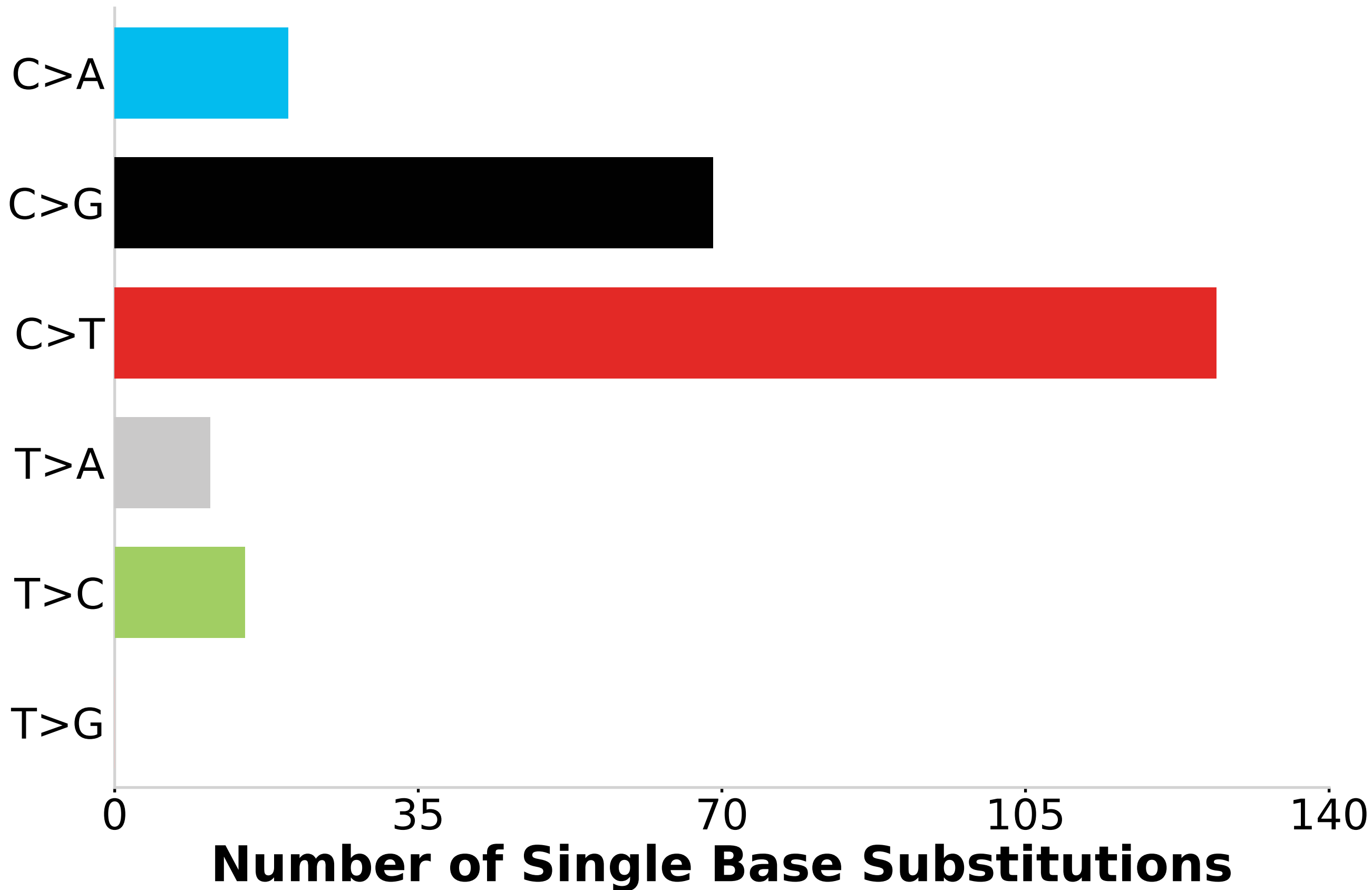
TCGA-GC-A3RD-01A-12D-A22Z-08: 80 subs



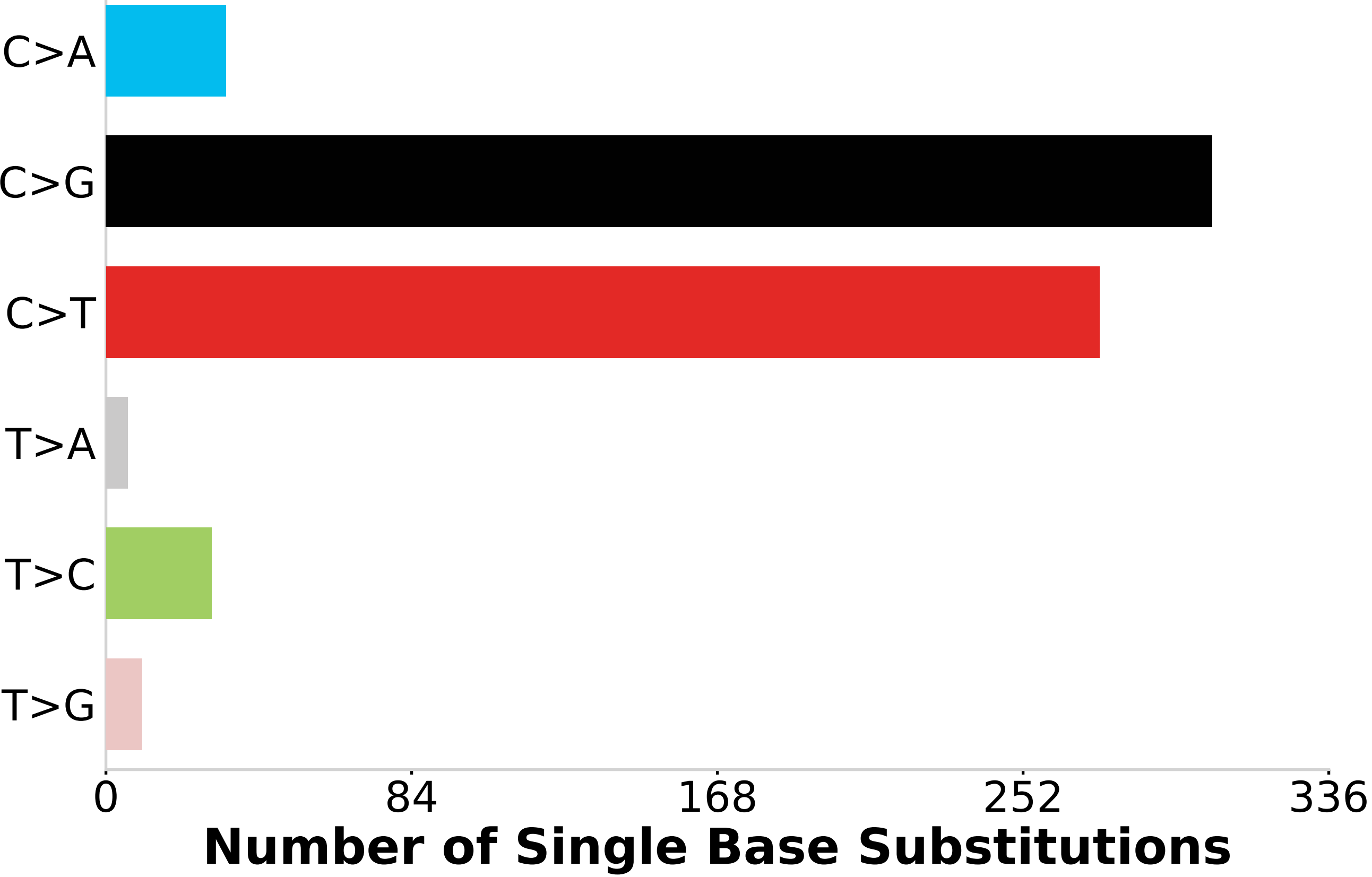
TCGA-GC-A3WC-01A-31D-A22Z-08: 152 su



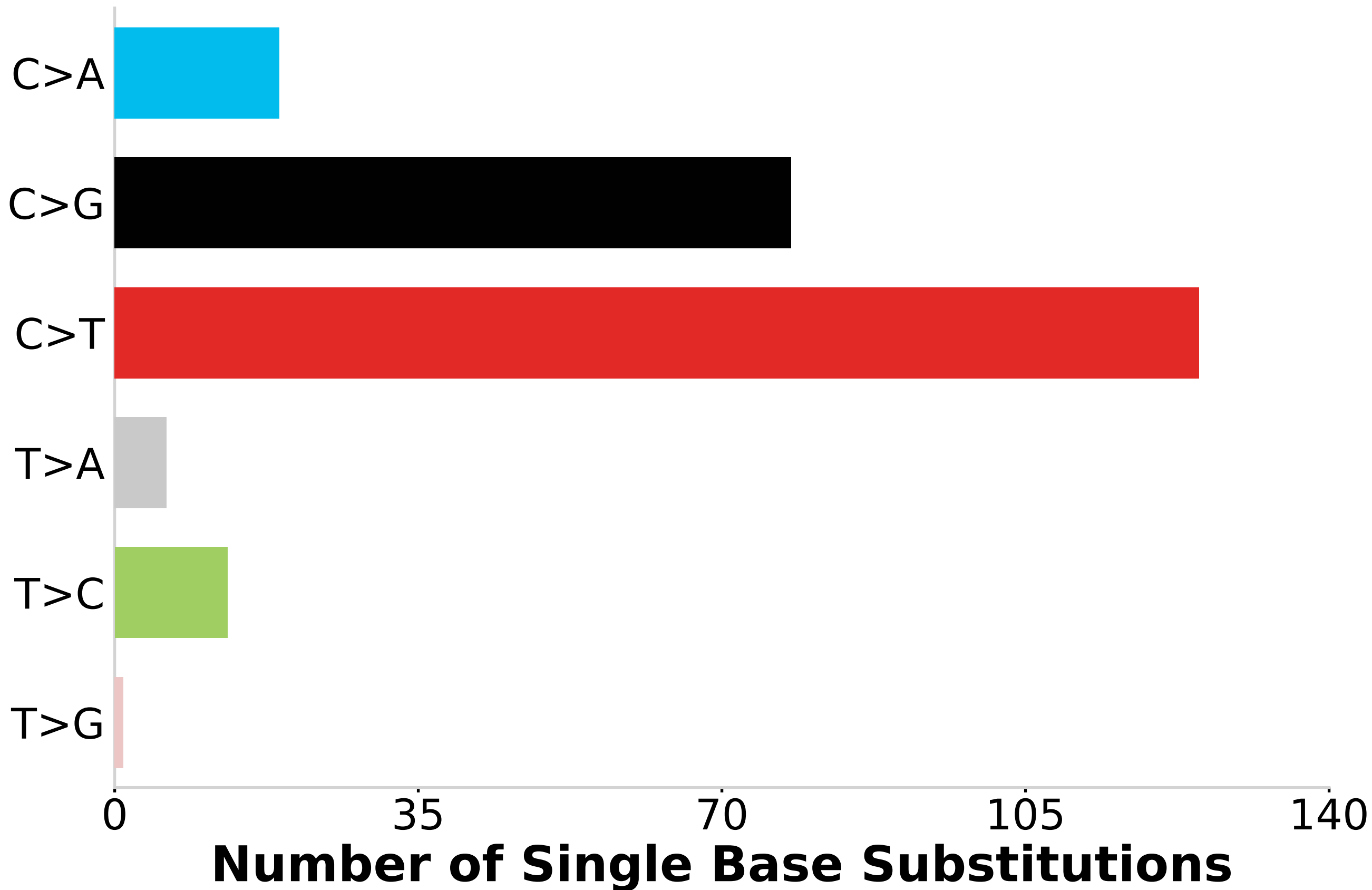
TCGA-GC-A3YS-01A-11D-A23M-08: 242 sub



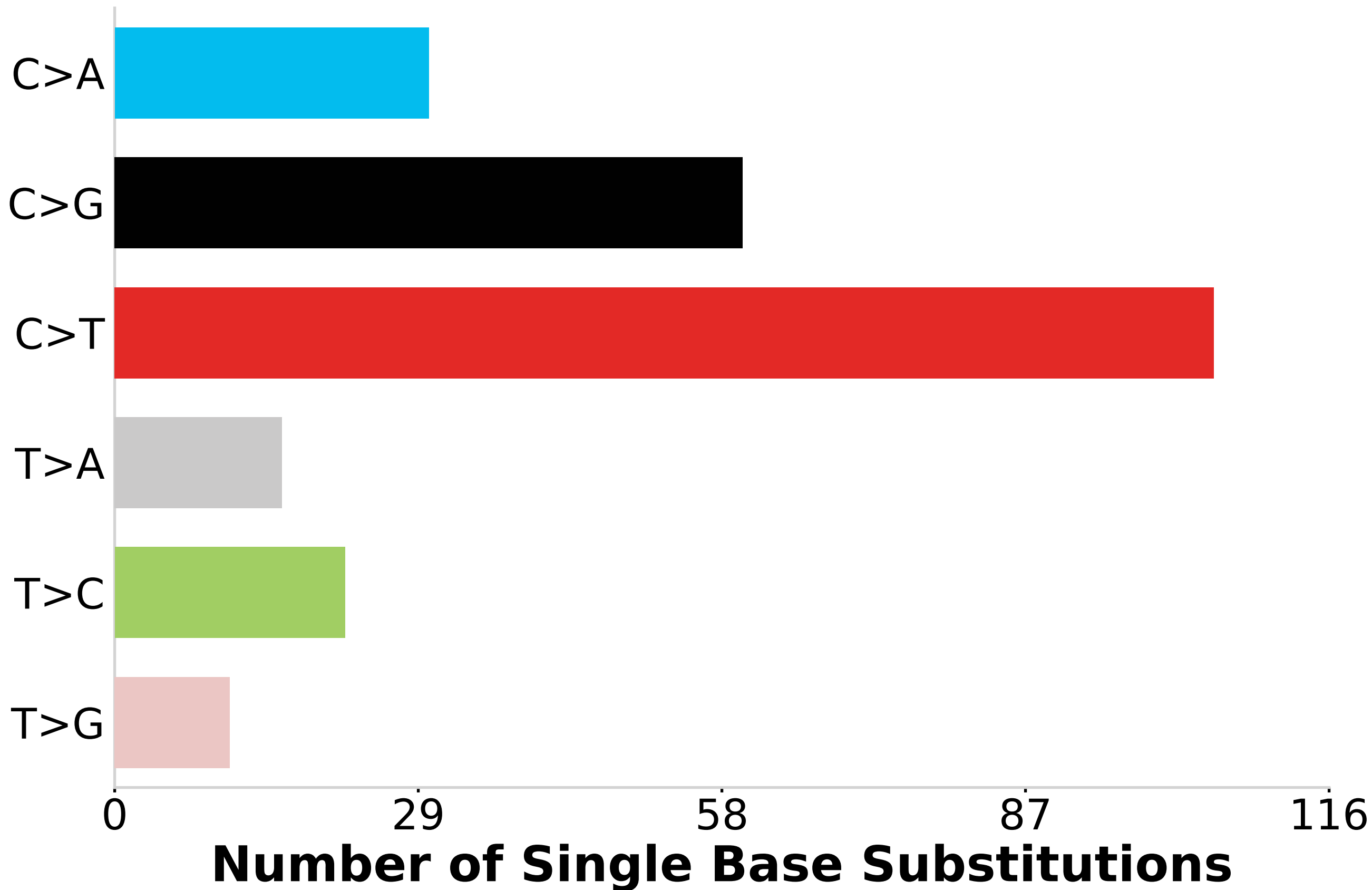
TCGA-GC-A4ZW-01A-11D-A26M-08: 655 su



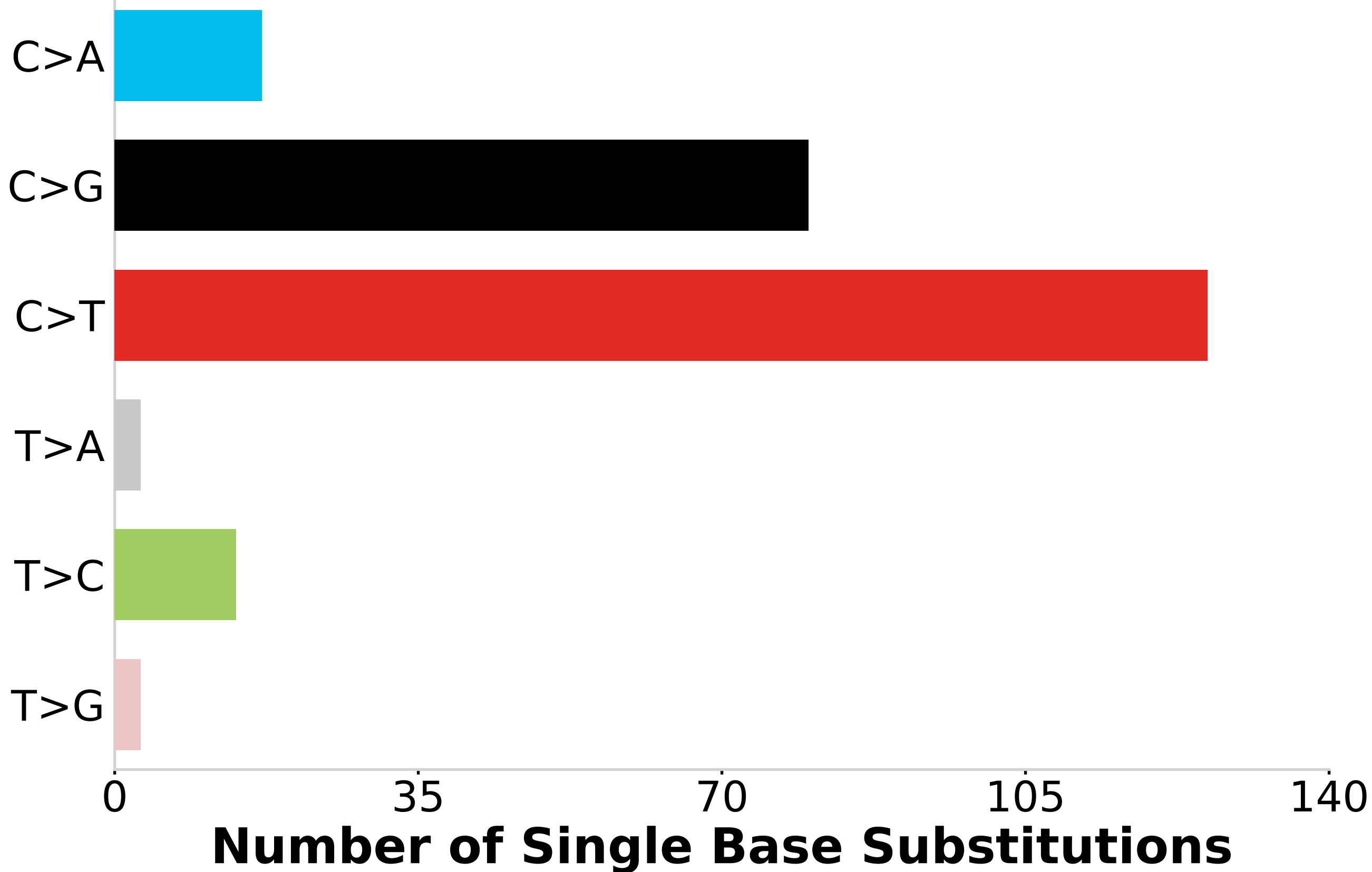
TCGA-GC-A6I1-01A-12D-A31L-08: 242 subs



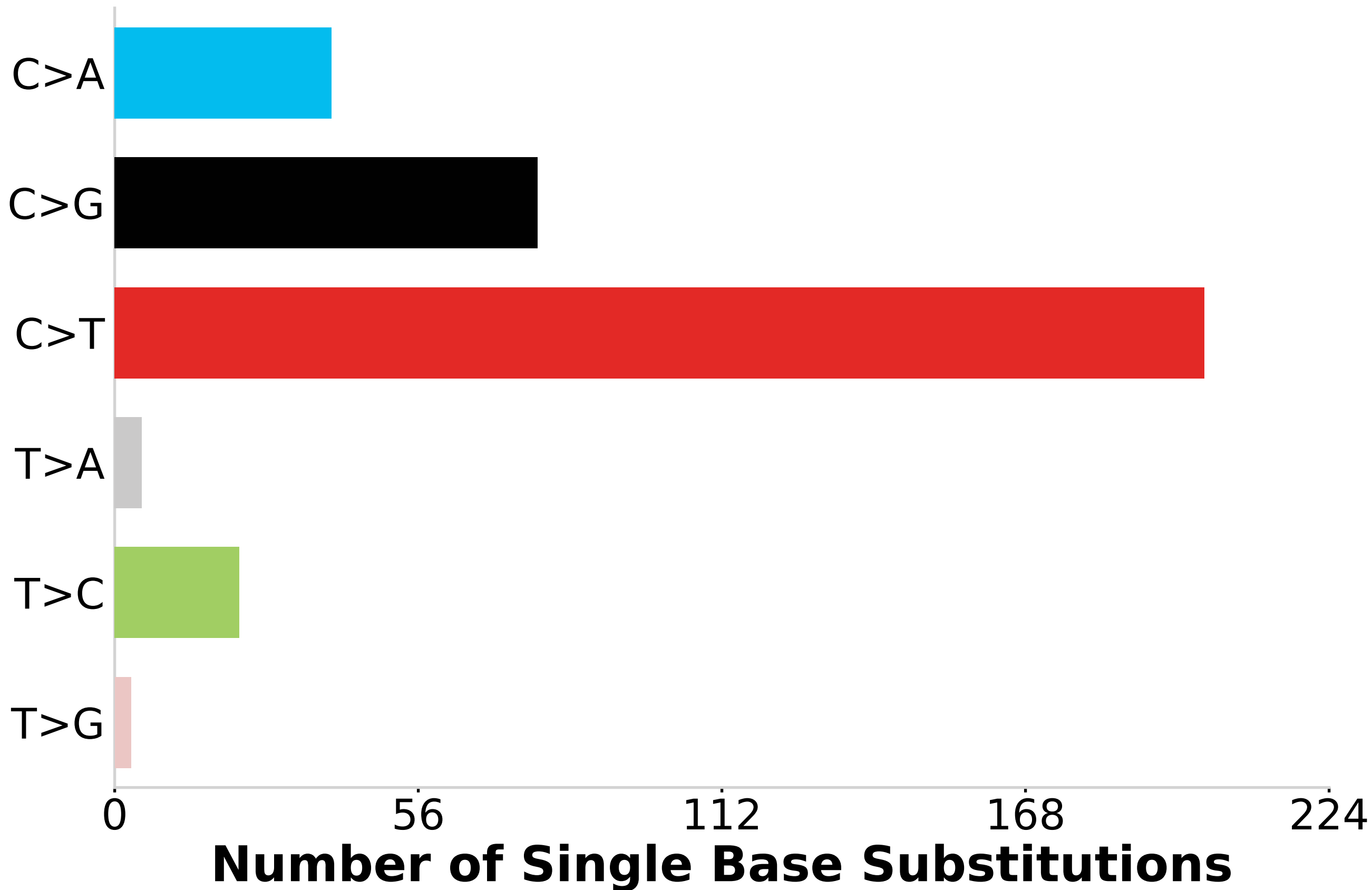
TCGA-GC-A6I3-01A-11D-A31L-08: 244 subs



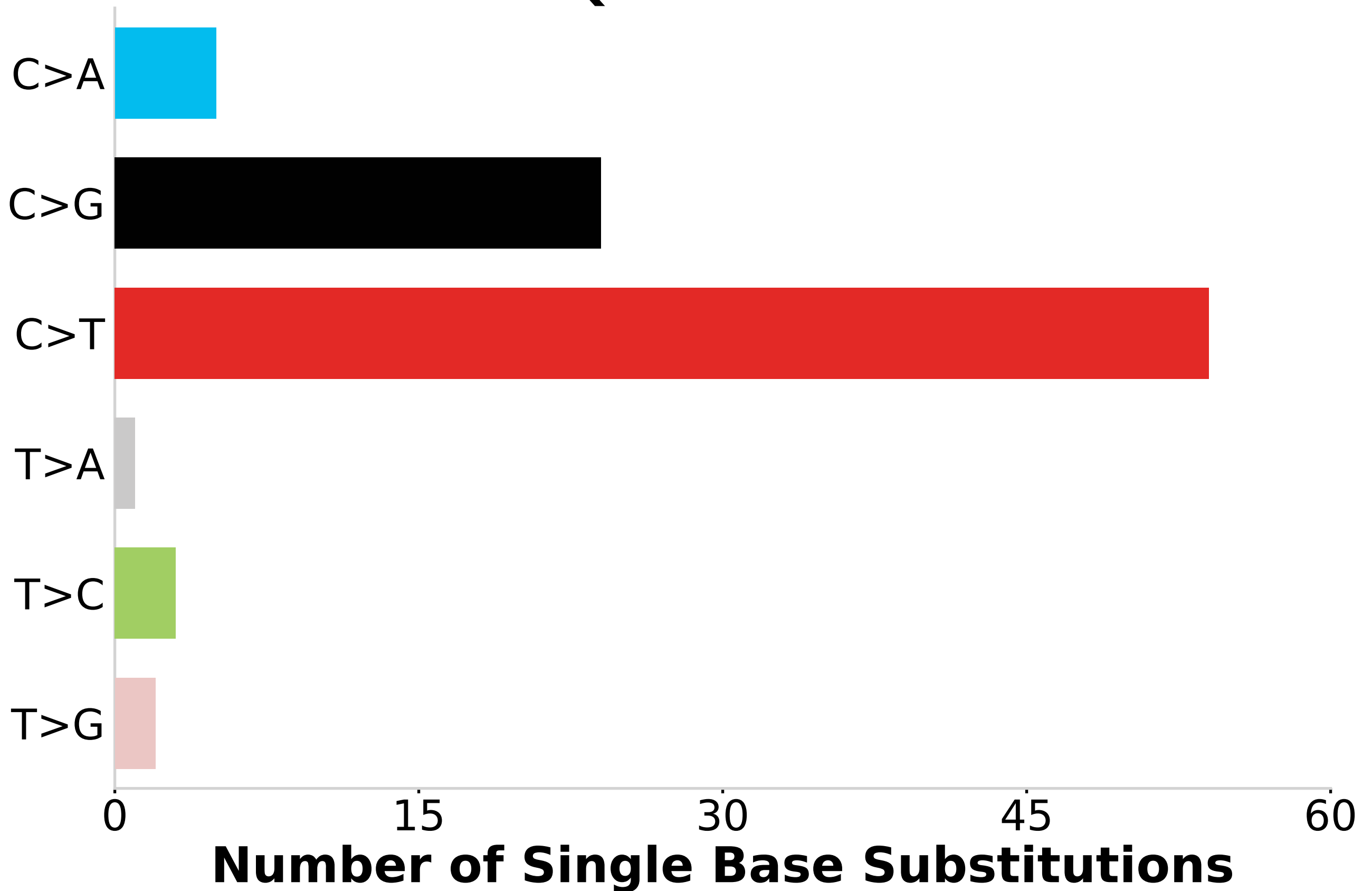
TCGA-GD-A2C5-01A-12D-A17V-08: 243 sub



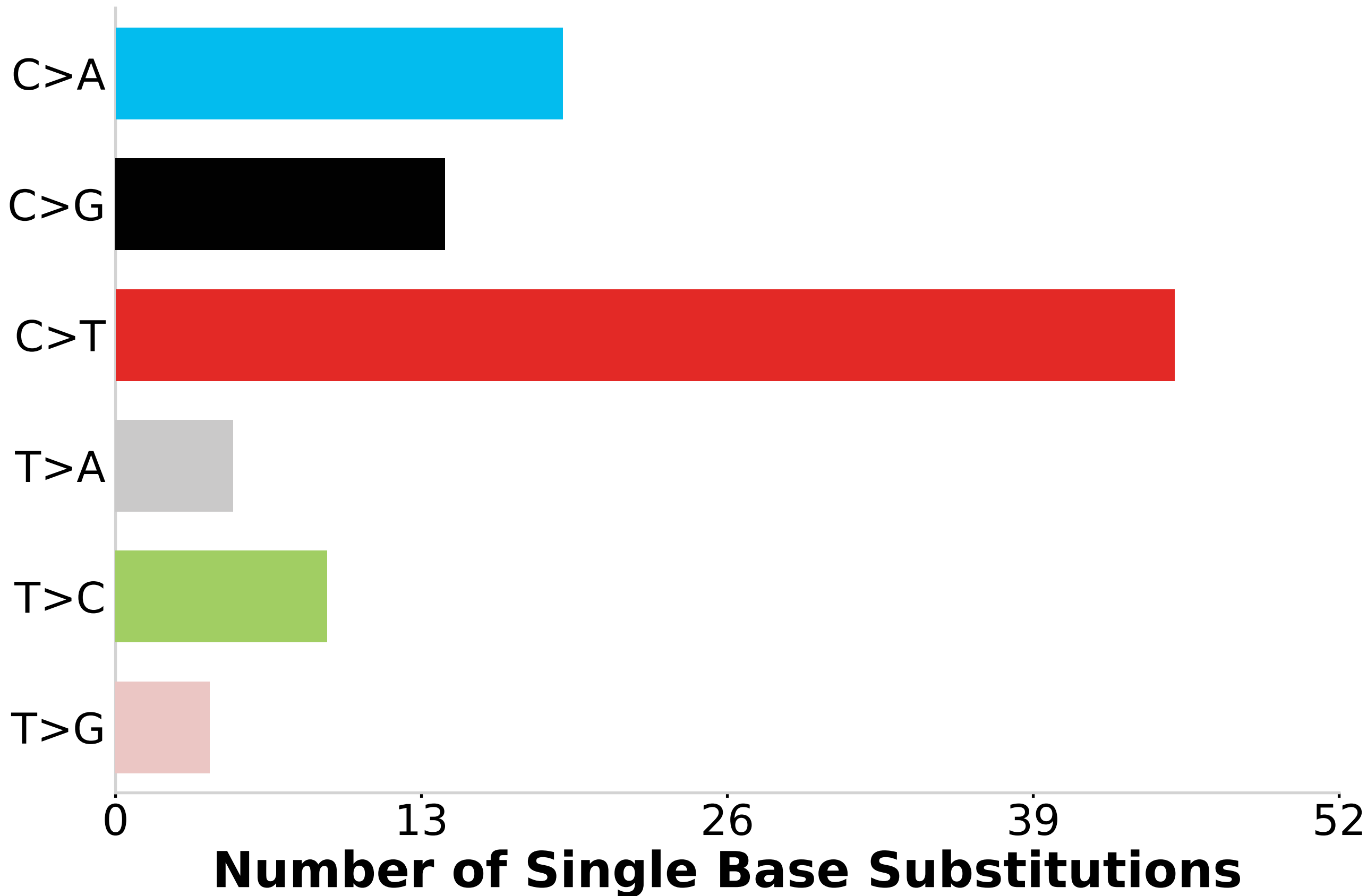
TCGA-GD-A30P-01A-21D-A21Z-08: 350 substitutions



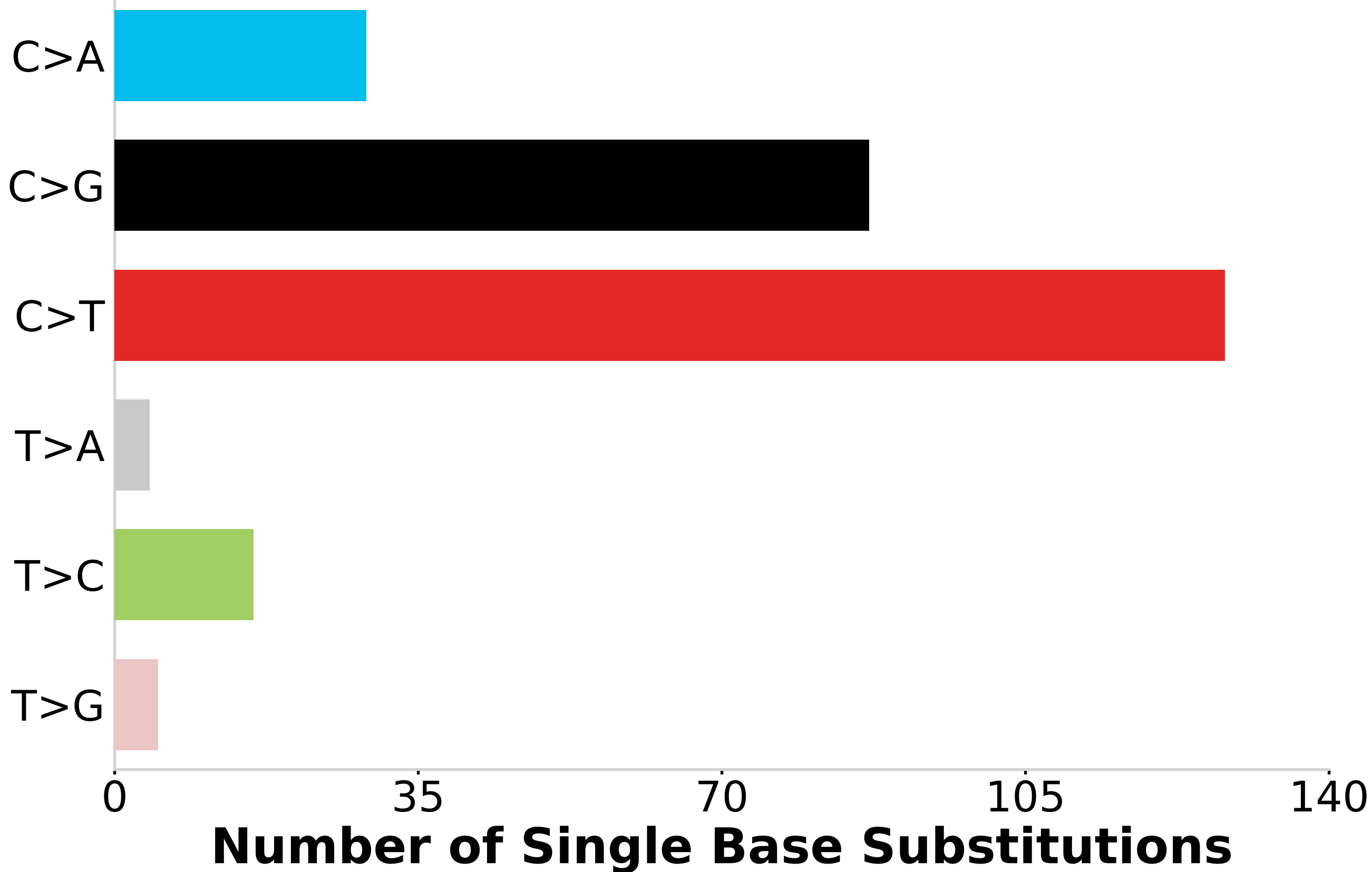
TCGA-GD-A30Q-01A-32D-A21Z-08: 89 sub



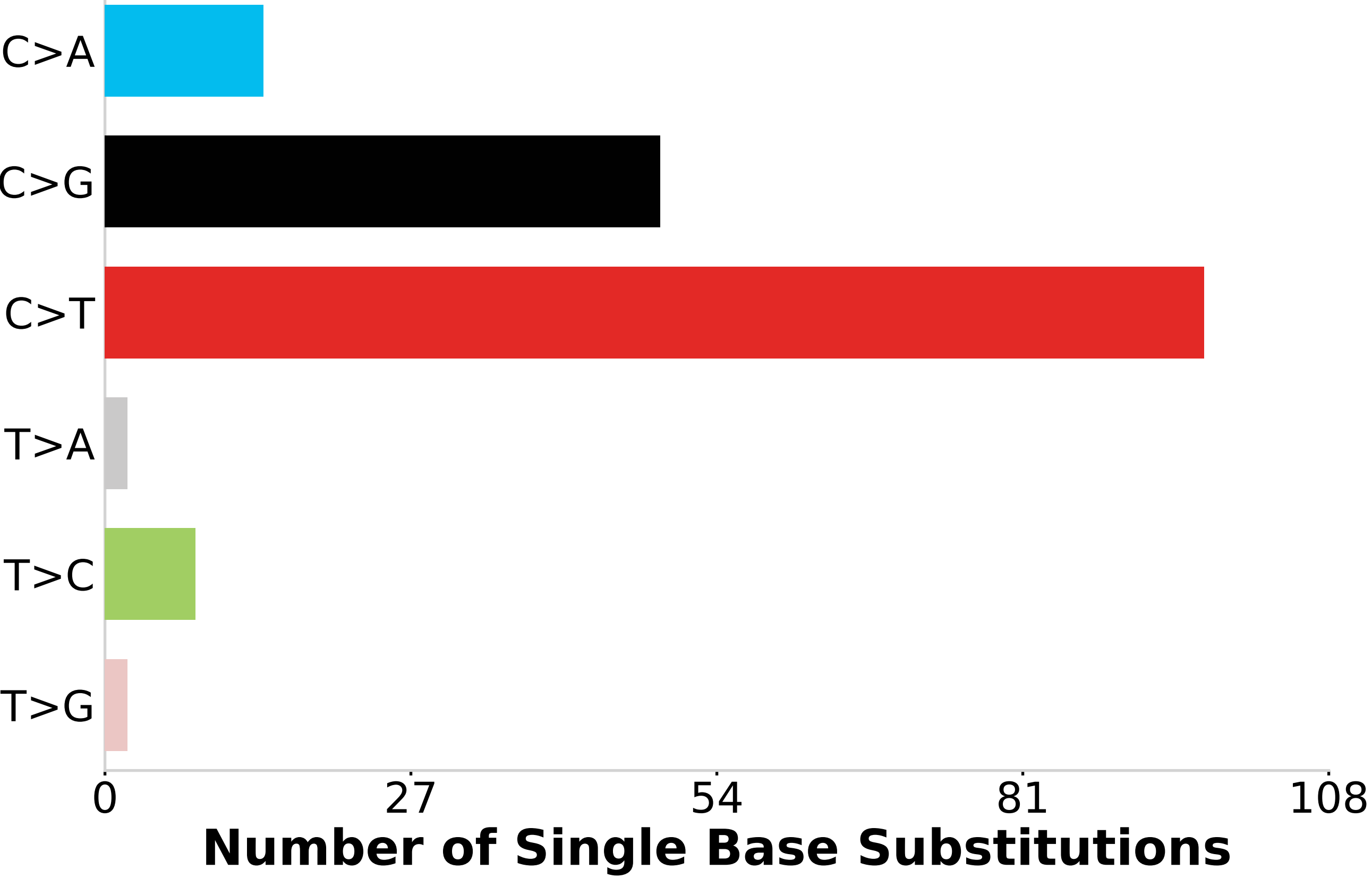
TCGA-GD-A3OS-01A-12D-A21Z-08: 96 subs



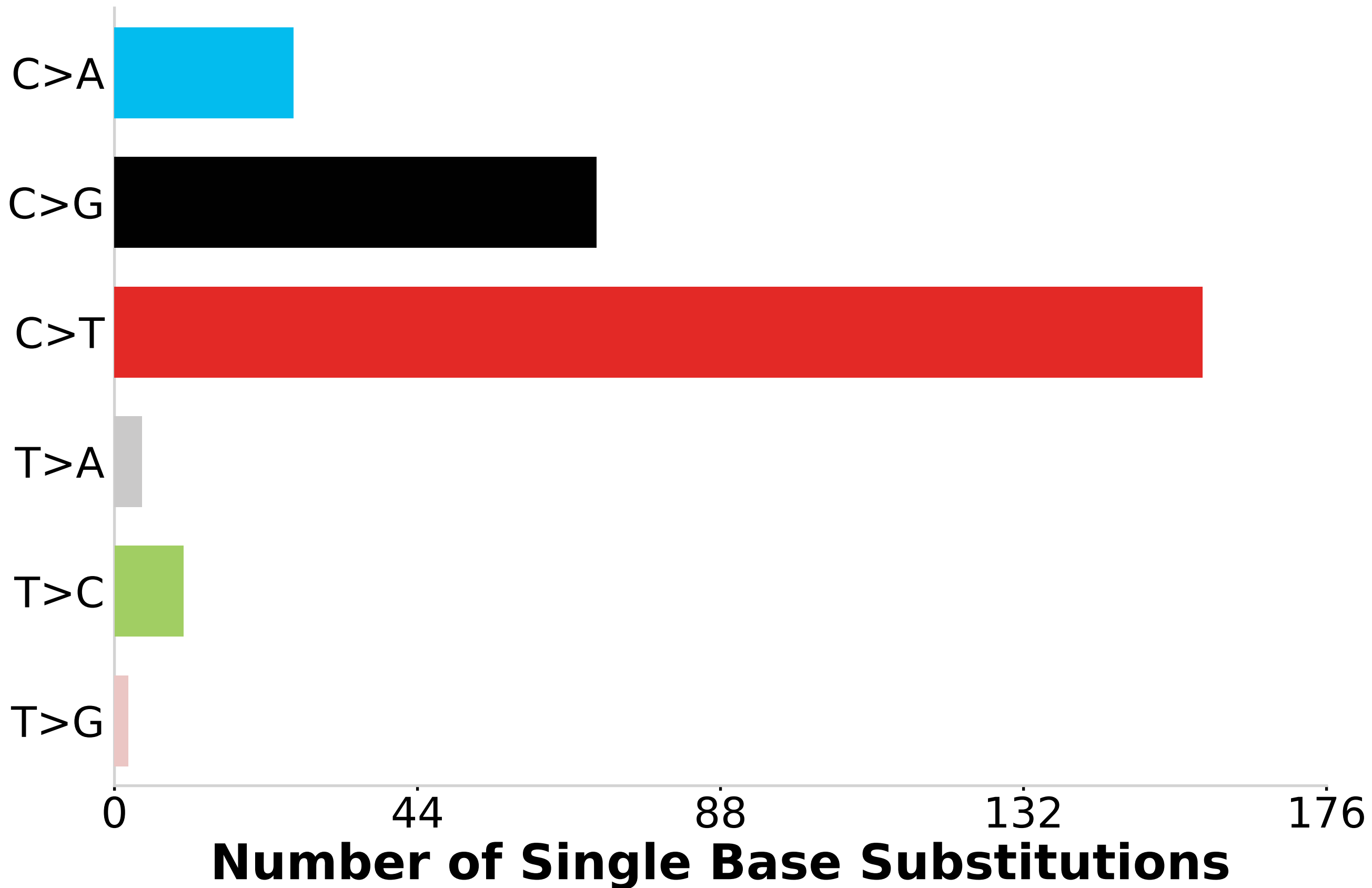
TCGA-GD-A6C6-01A-21D-A31L-08: 269 sub



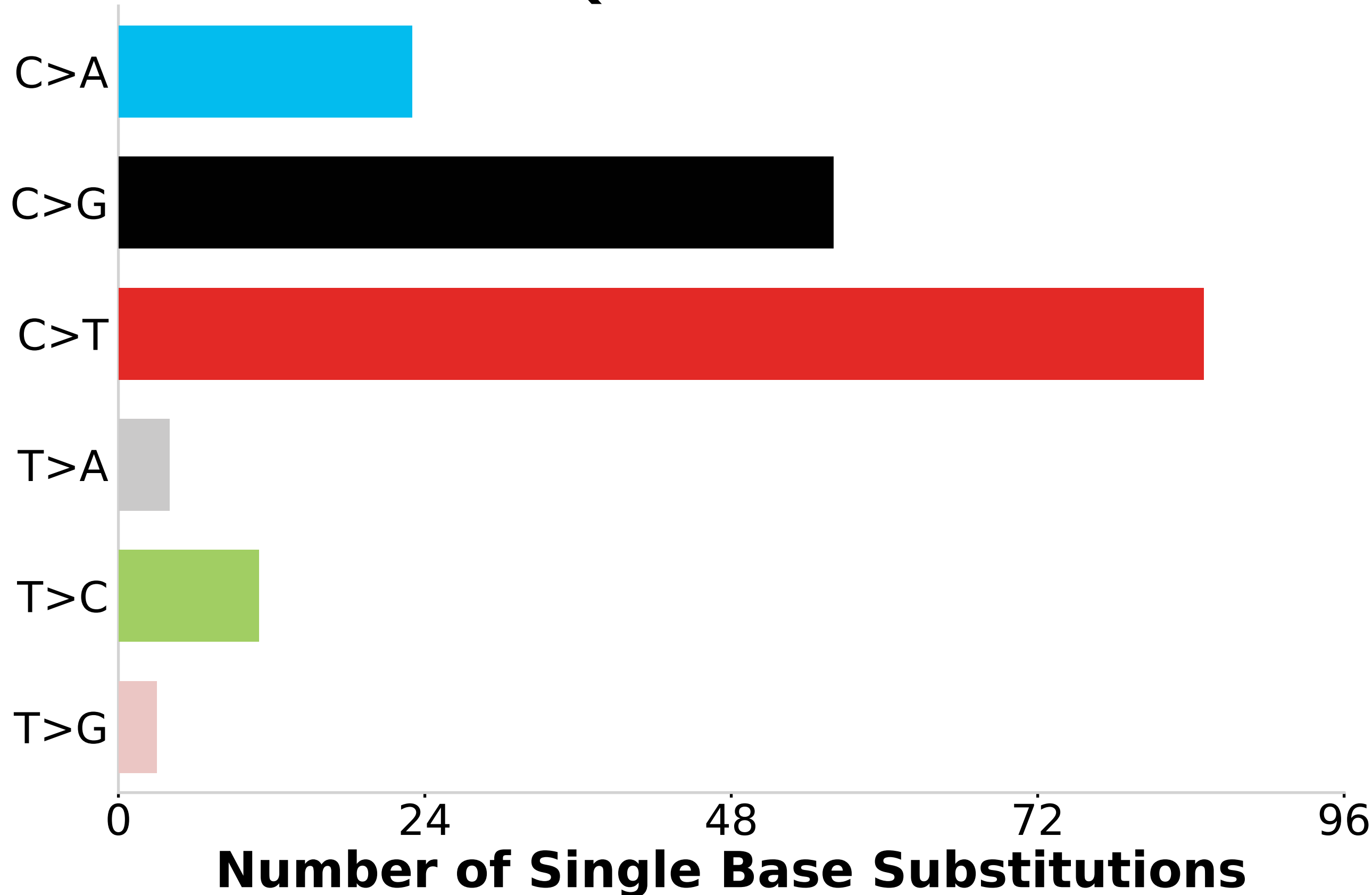
TCGA-GD-A76B-01A-11D-A32B-08: 172 sub



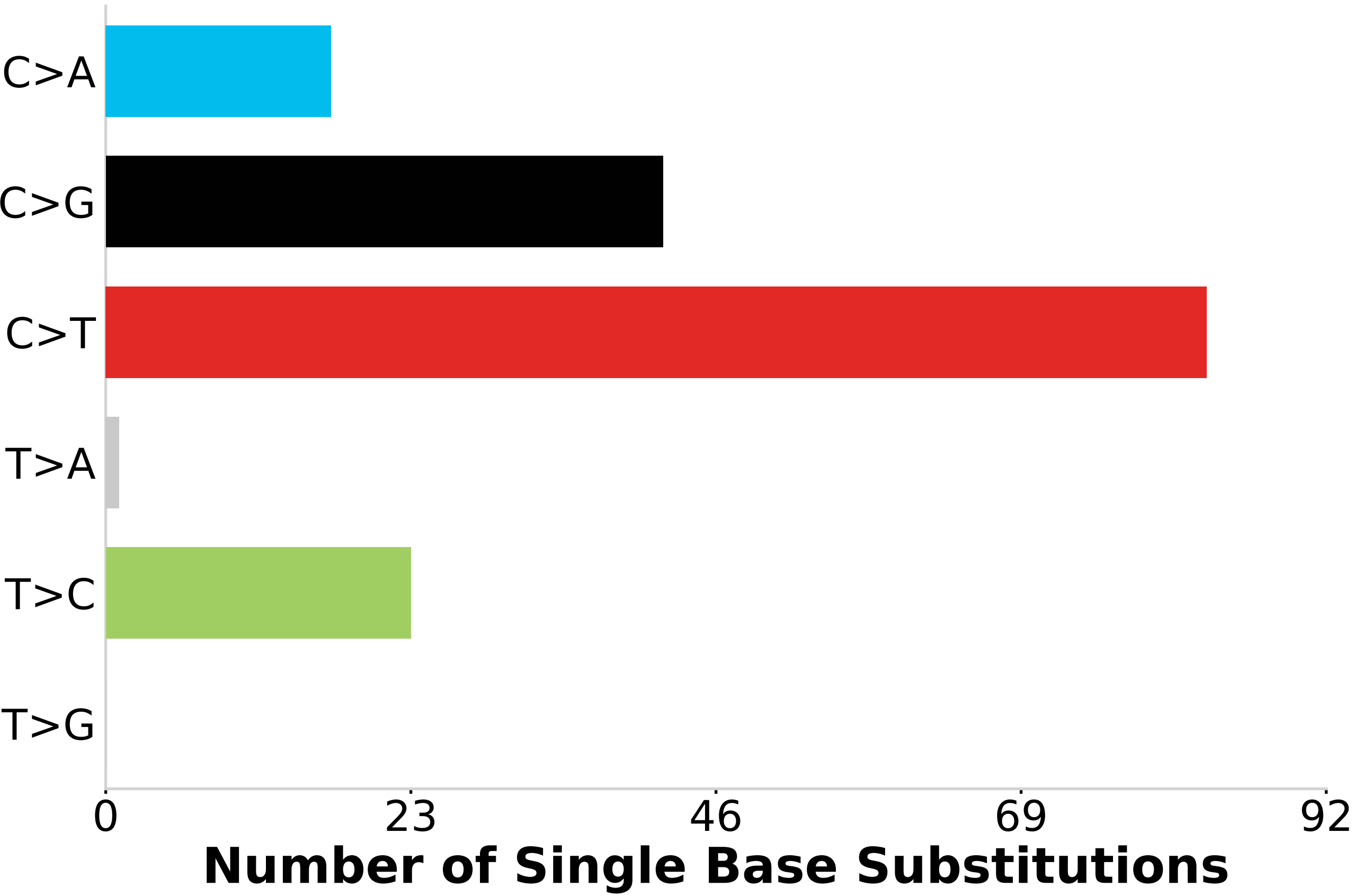
TCGA-GU-A42P-01A-11D-A23U-08: 270 sub



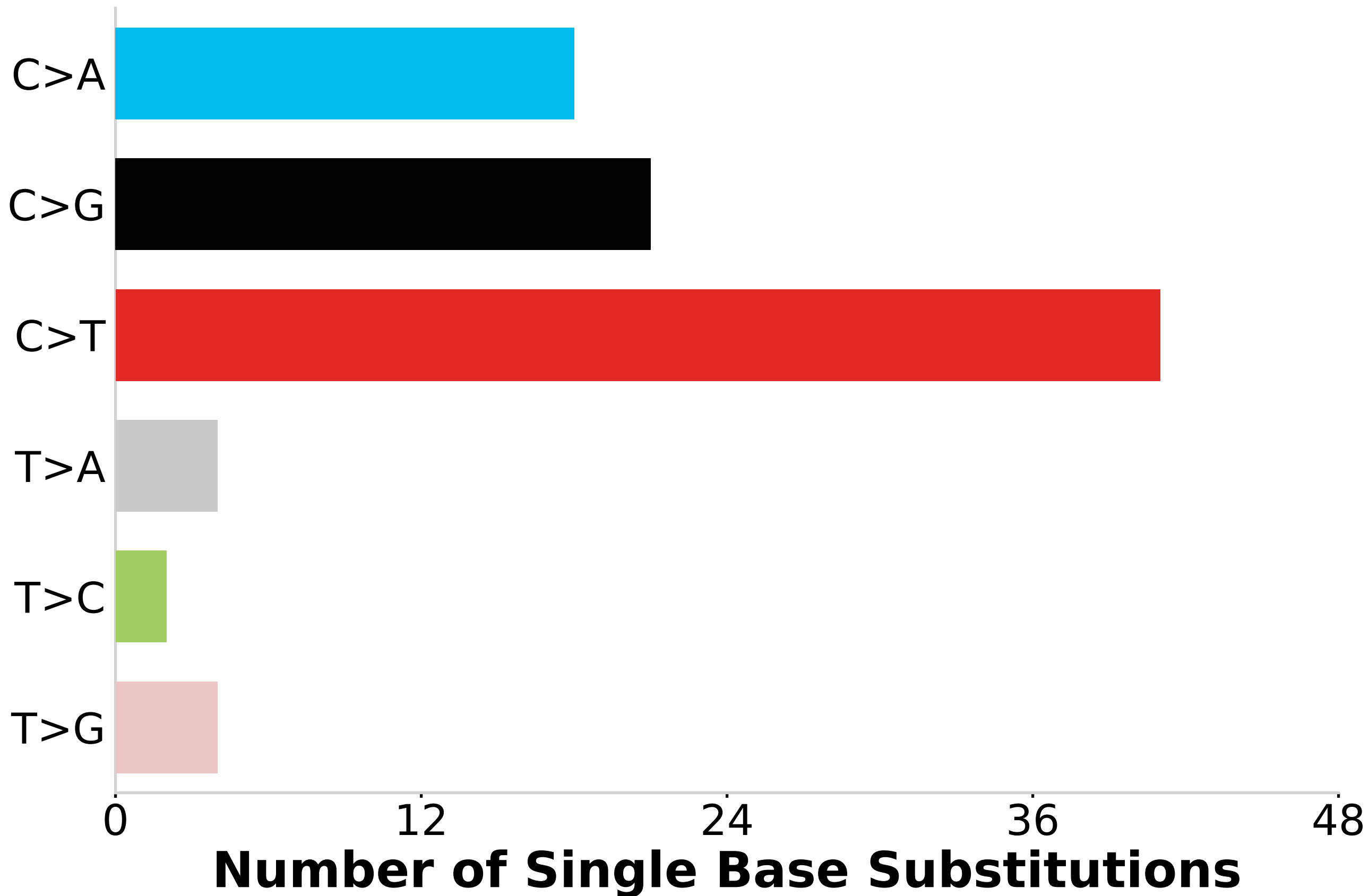
TCGA-GU-A42Q-01A-11D-A23U-08: 182 sub



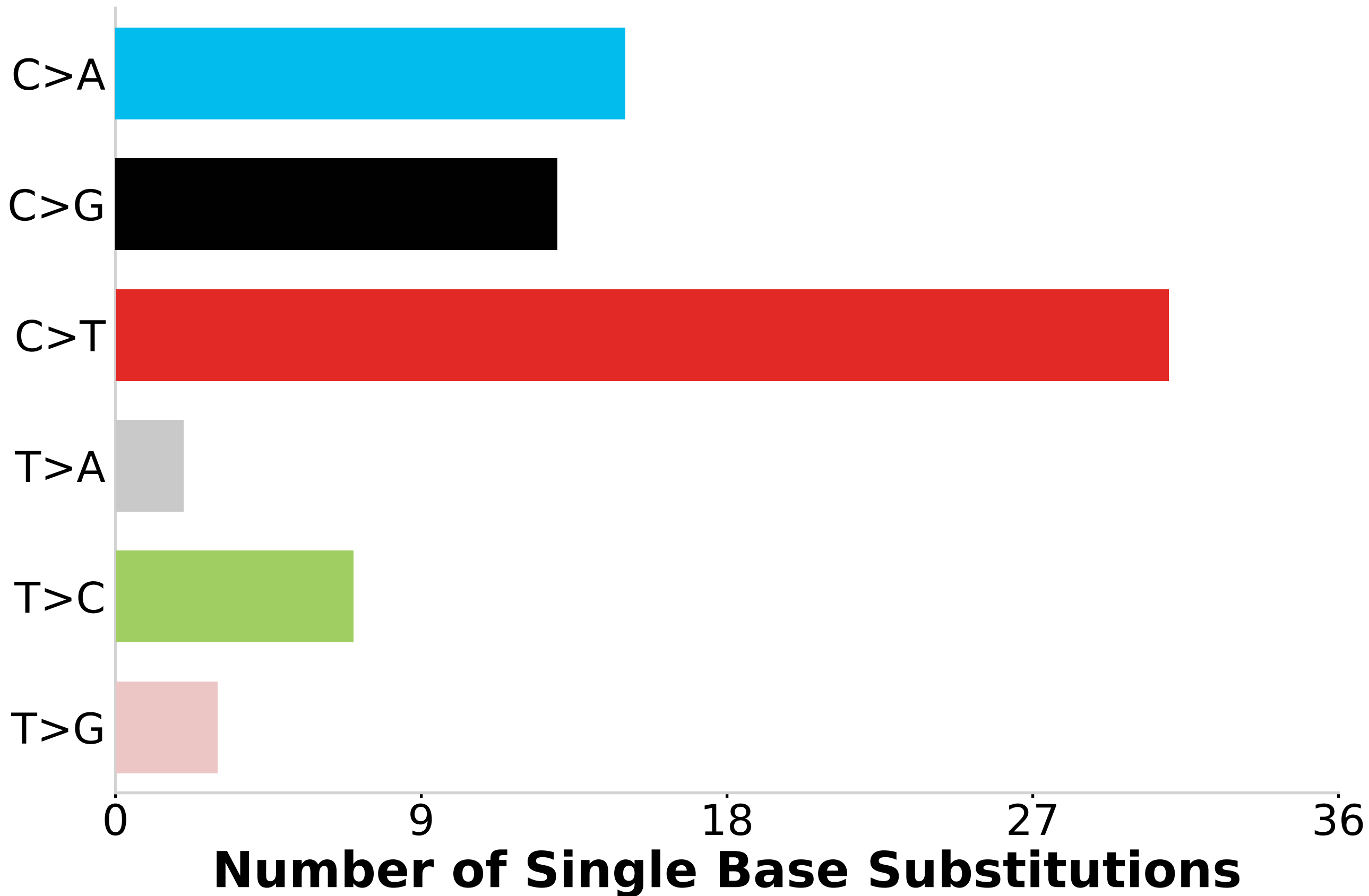
TCGA-GU-A42R-01A-11D-A23M-08: 166 su



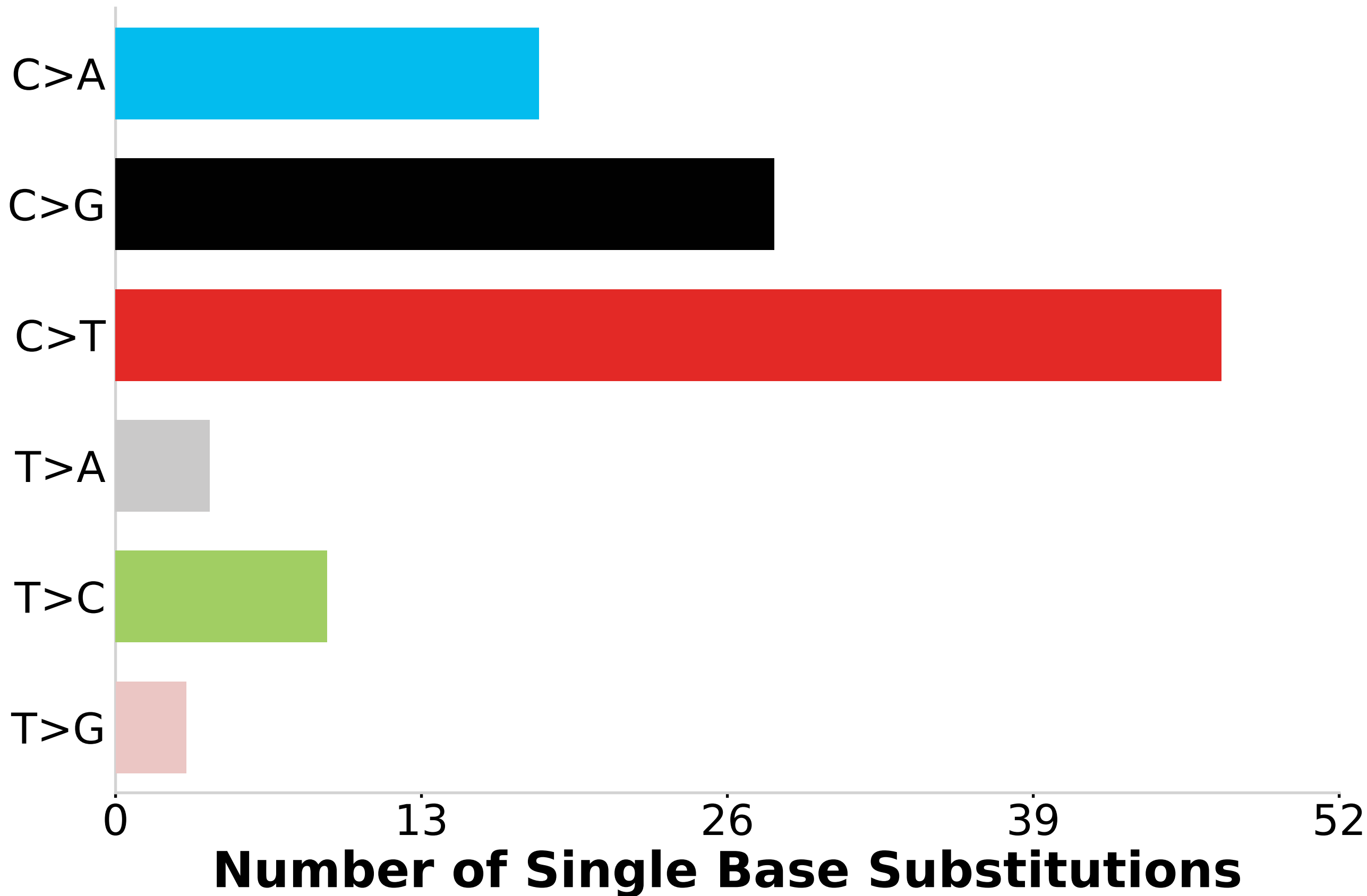
TCGA-GU-A762-01A-11D-A339-08: 90 subs



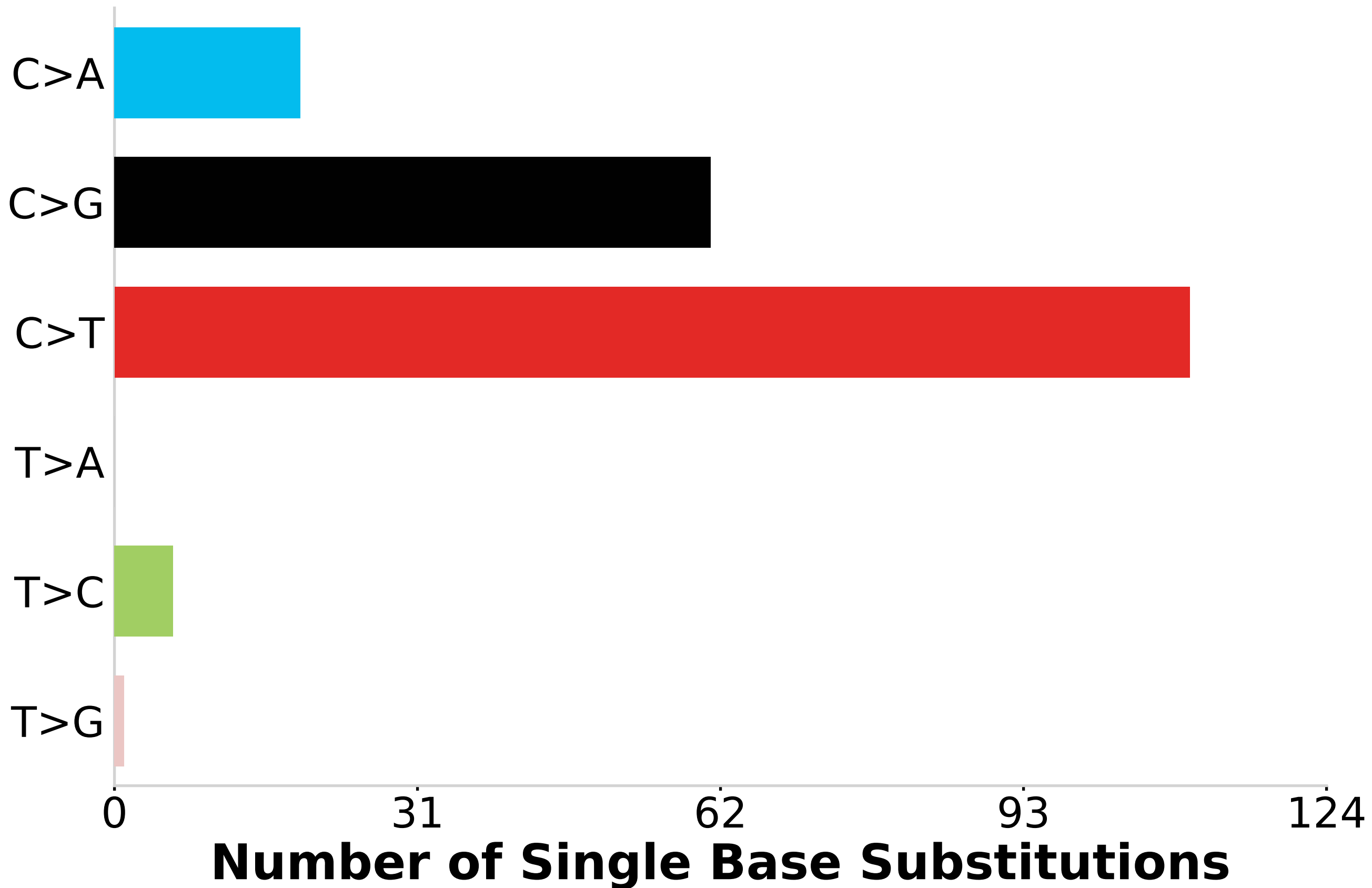
TCGA-GU-A763-01A-11D-A32B-08: 71 subs



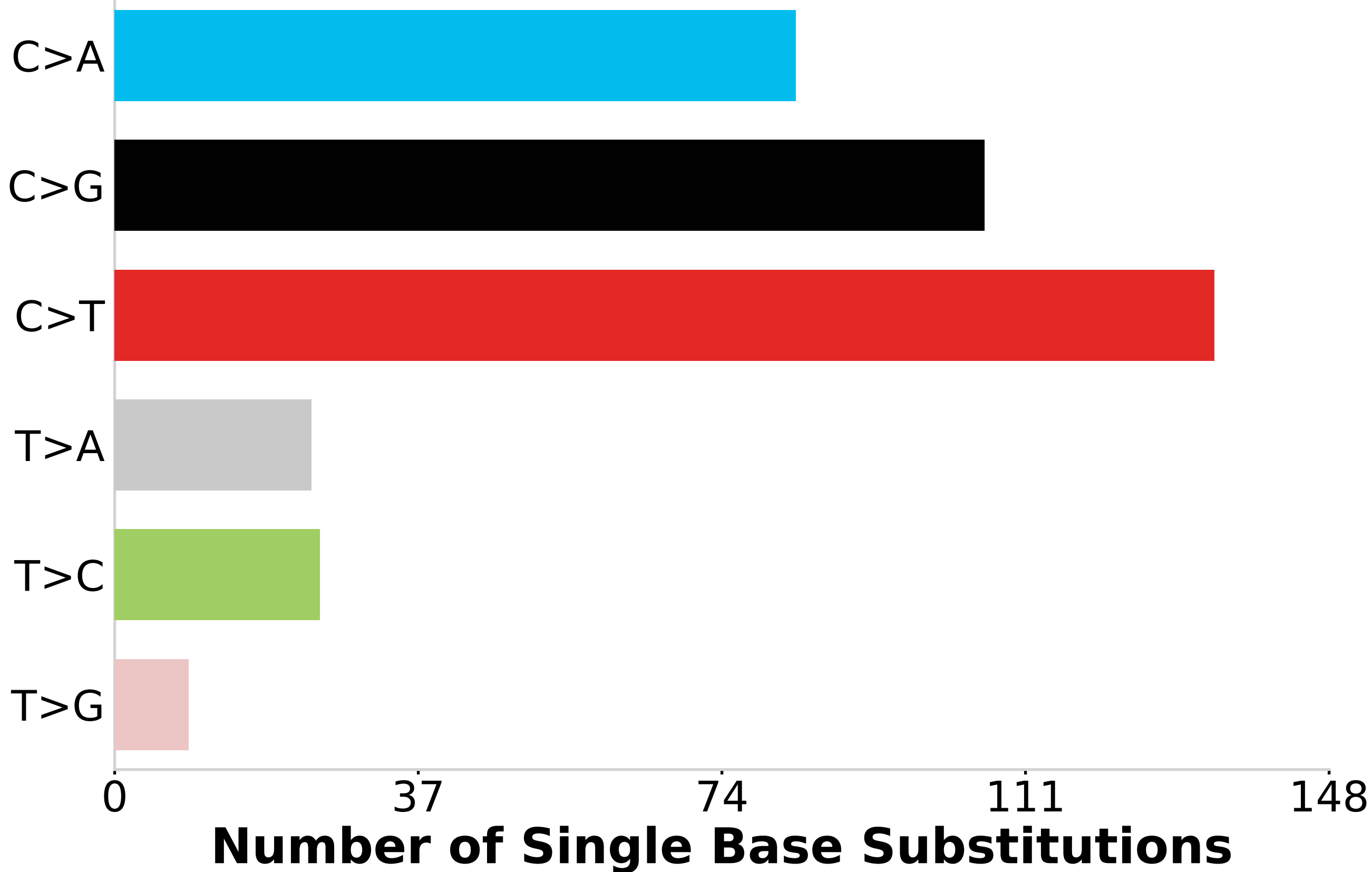
TCGA-GU-A764-01A-11D-A34U-08: 109 sub



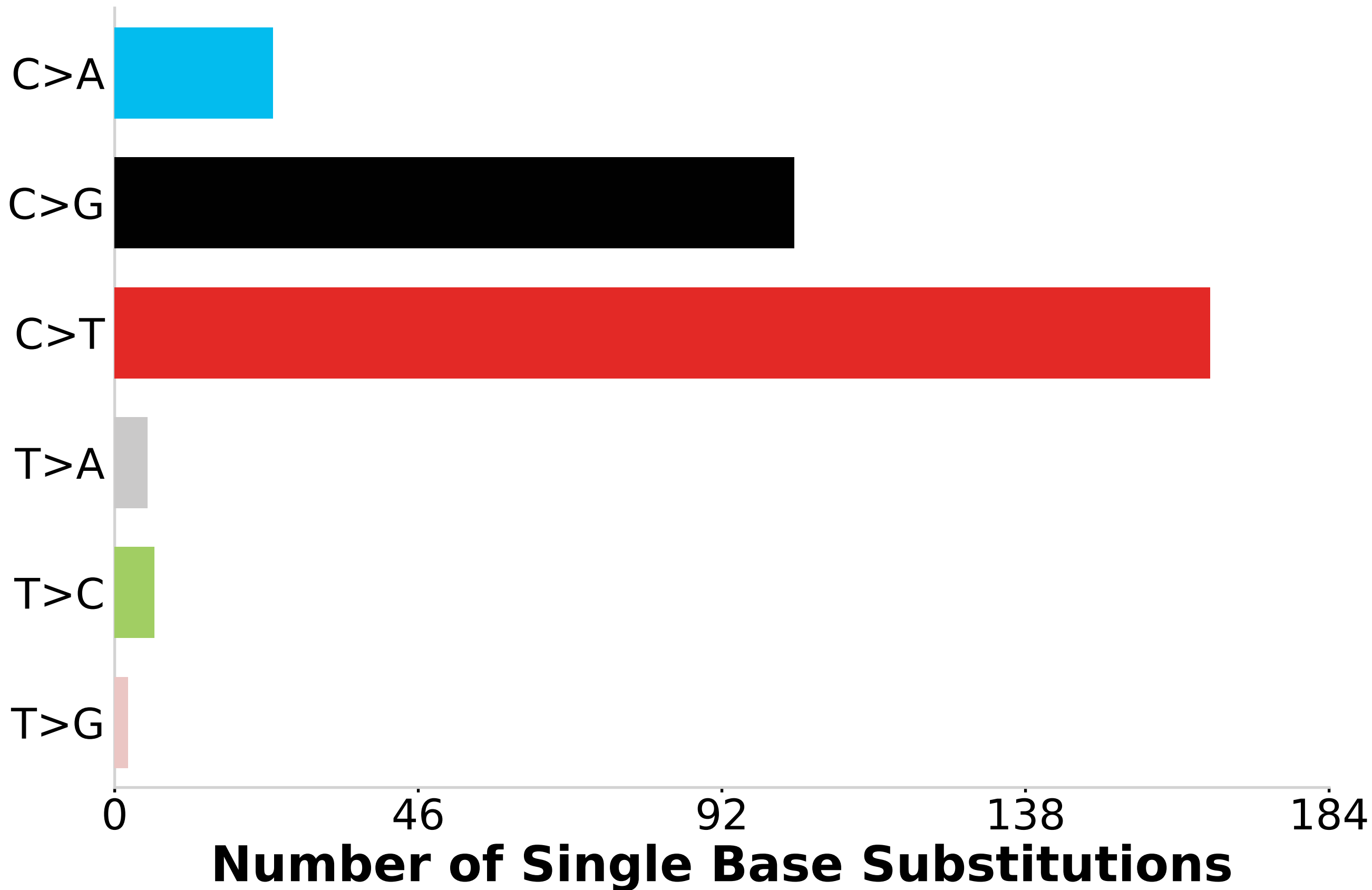
TCGA-GU-A766-01A-11D-A32B-08: 197 sub



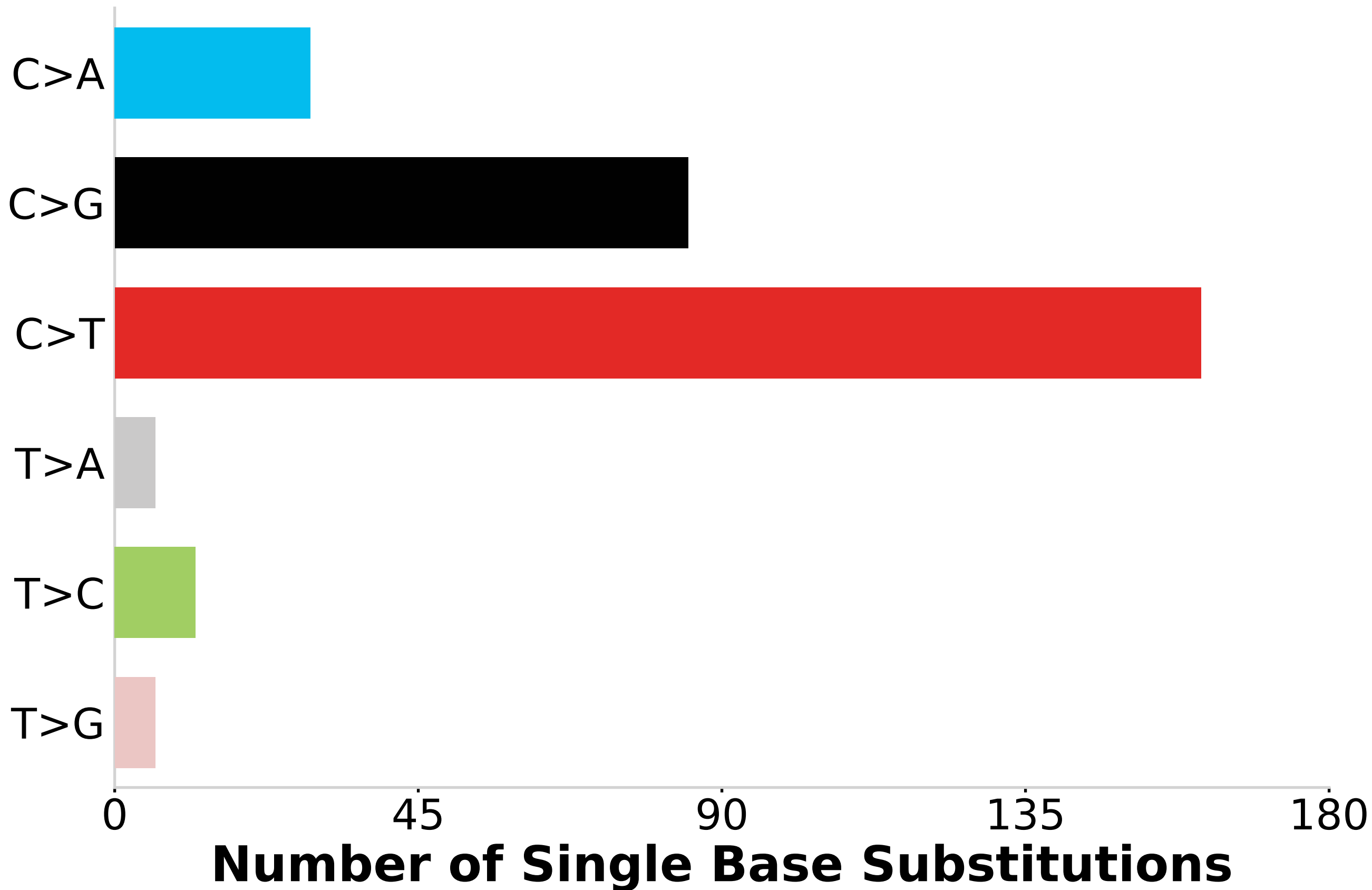
TCGA-GU-A767-01A-11D-A32B-08: 381 sub



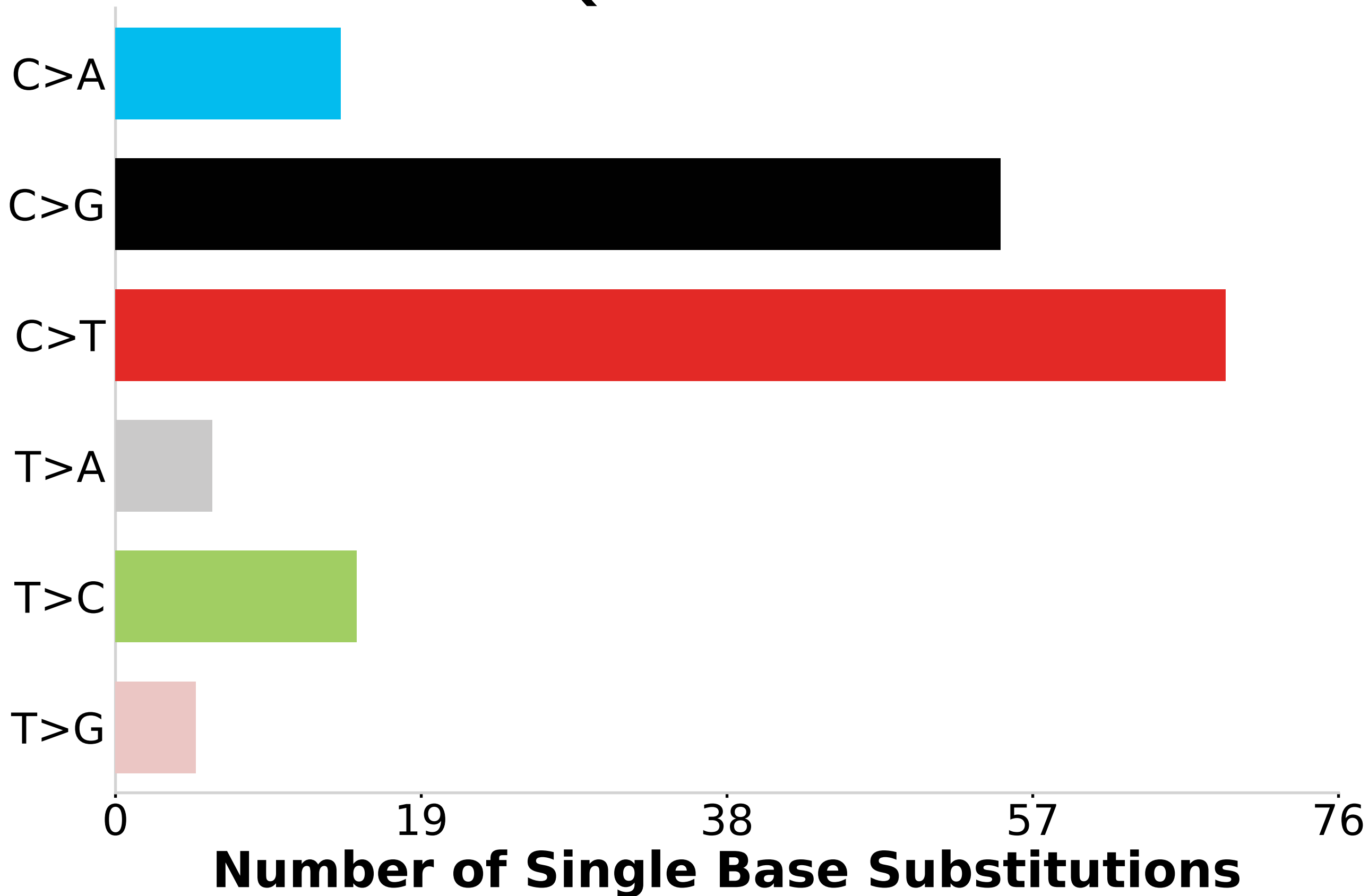
TCGA-GU-AATO-01A-11D-A391-08: 306 substitutions



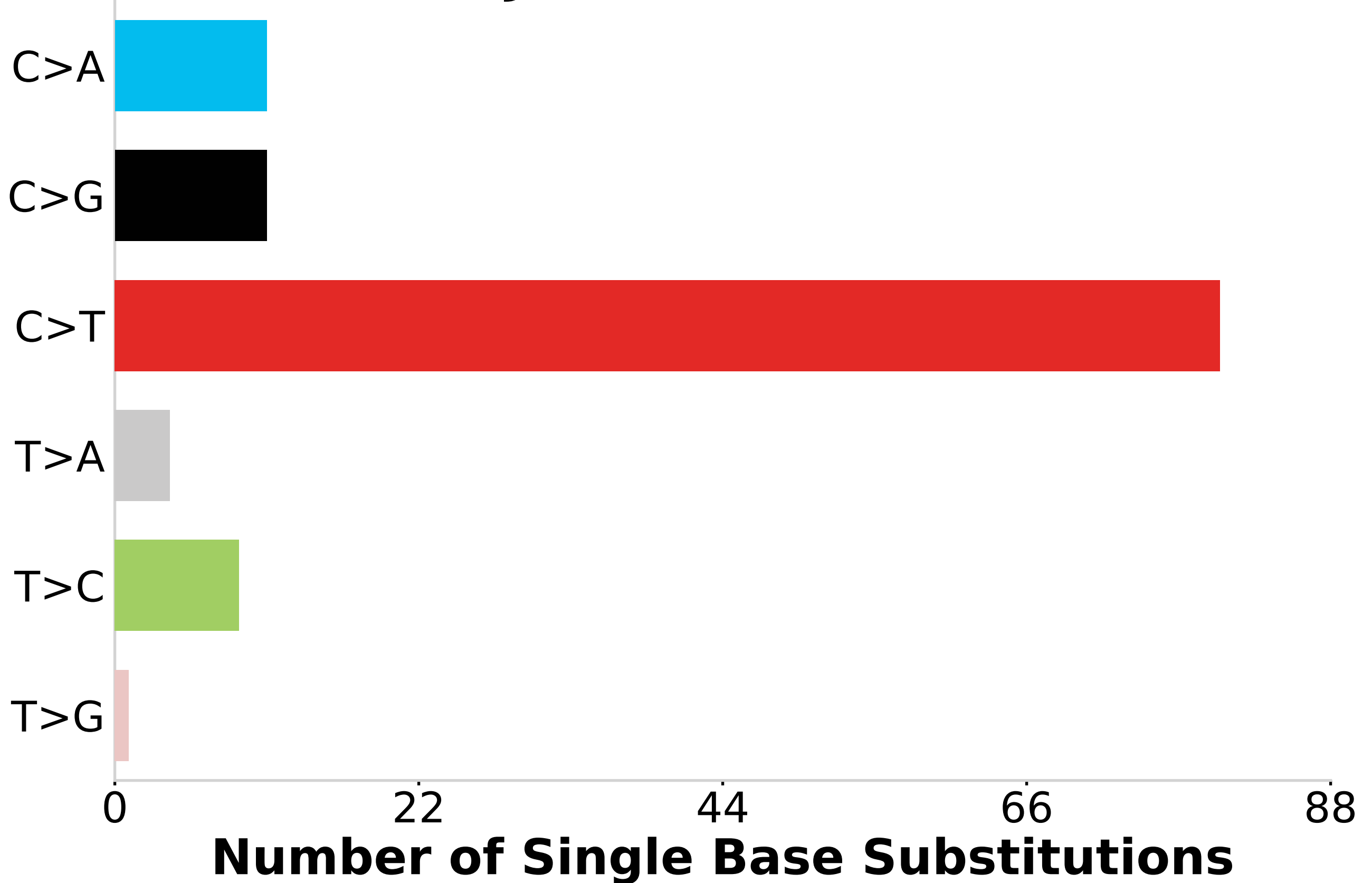
TCGA-GU-AATP-01A-11D-A391-08: 299 sub



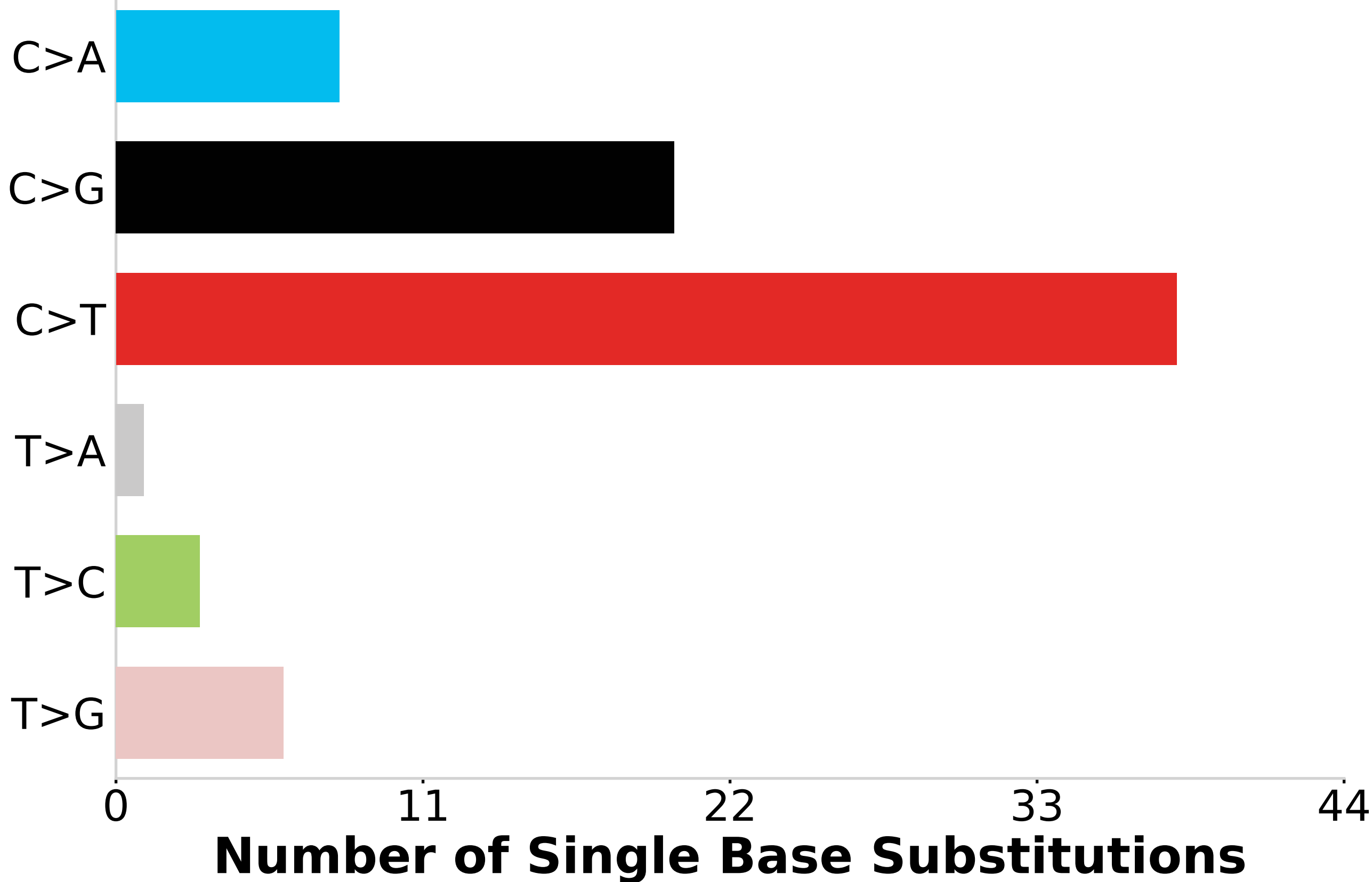
TCGA-GU-AATQ-01A-11D-A391-08: 164 sub



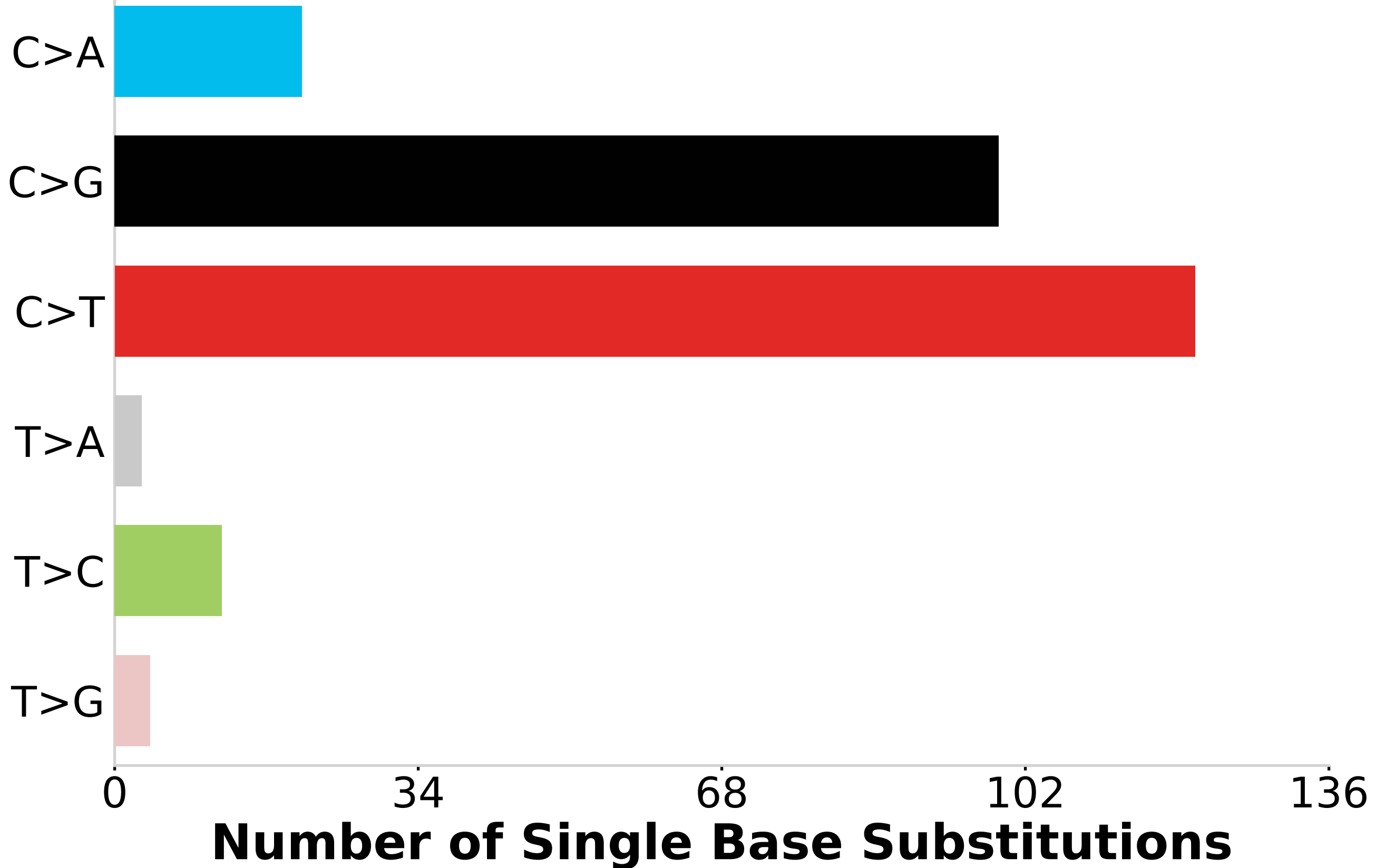
TCGA-GV-A3JV-01A-11D-A21Z-08: 116 subs



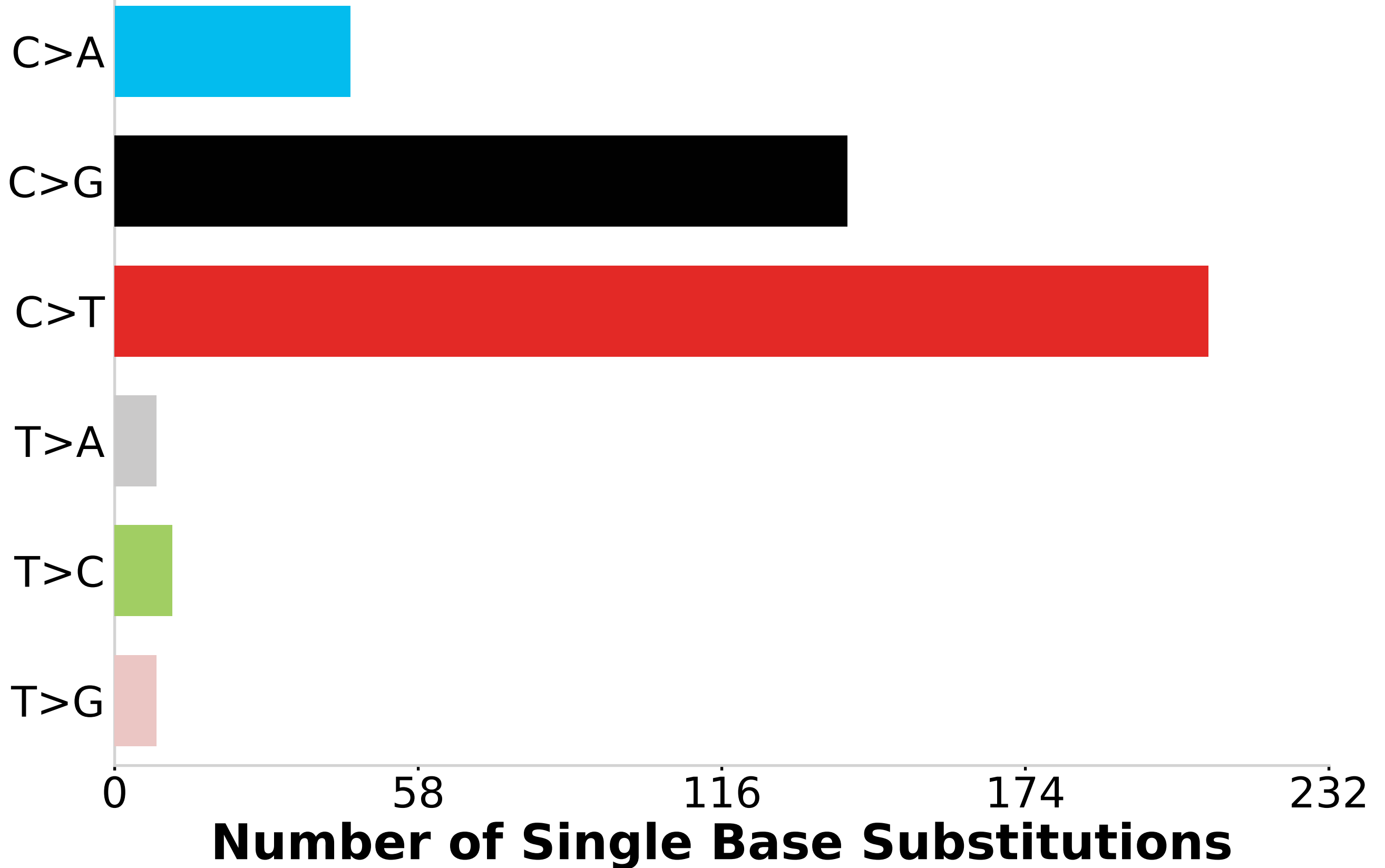
TCGA-GV-A3JW-01A-11D-A20D-08: 76 subs



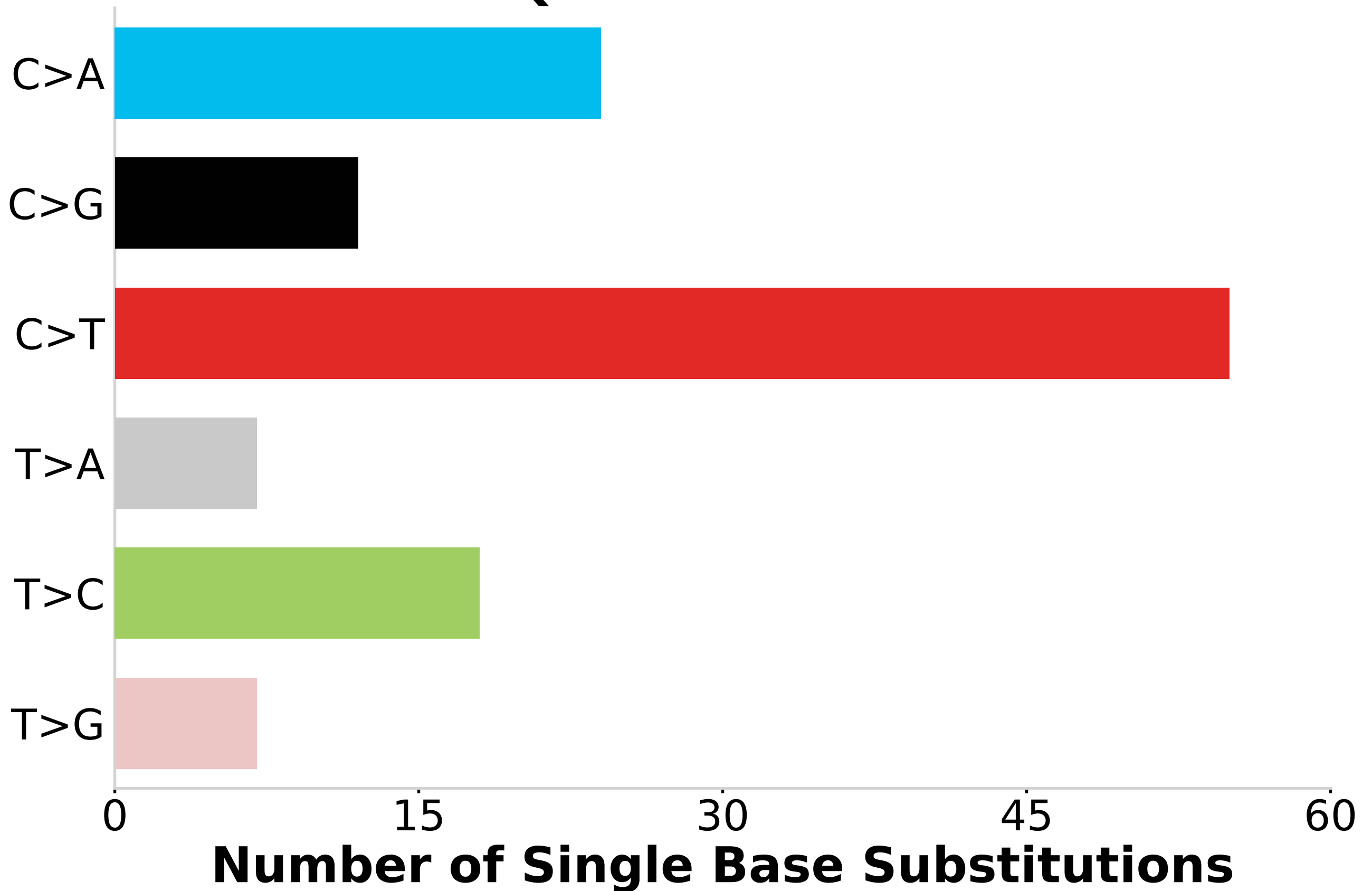
TCGA-GV-A3JX-01A-11D-A20D-08: 260 sub



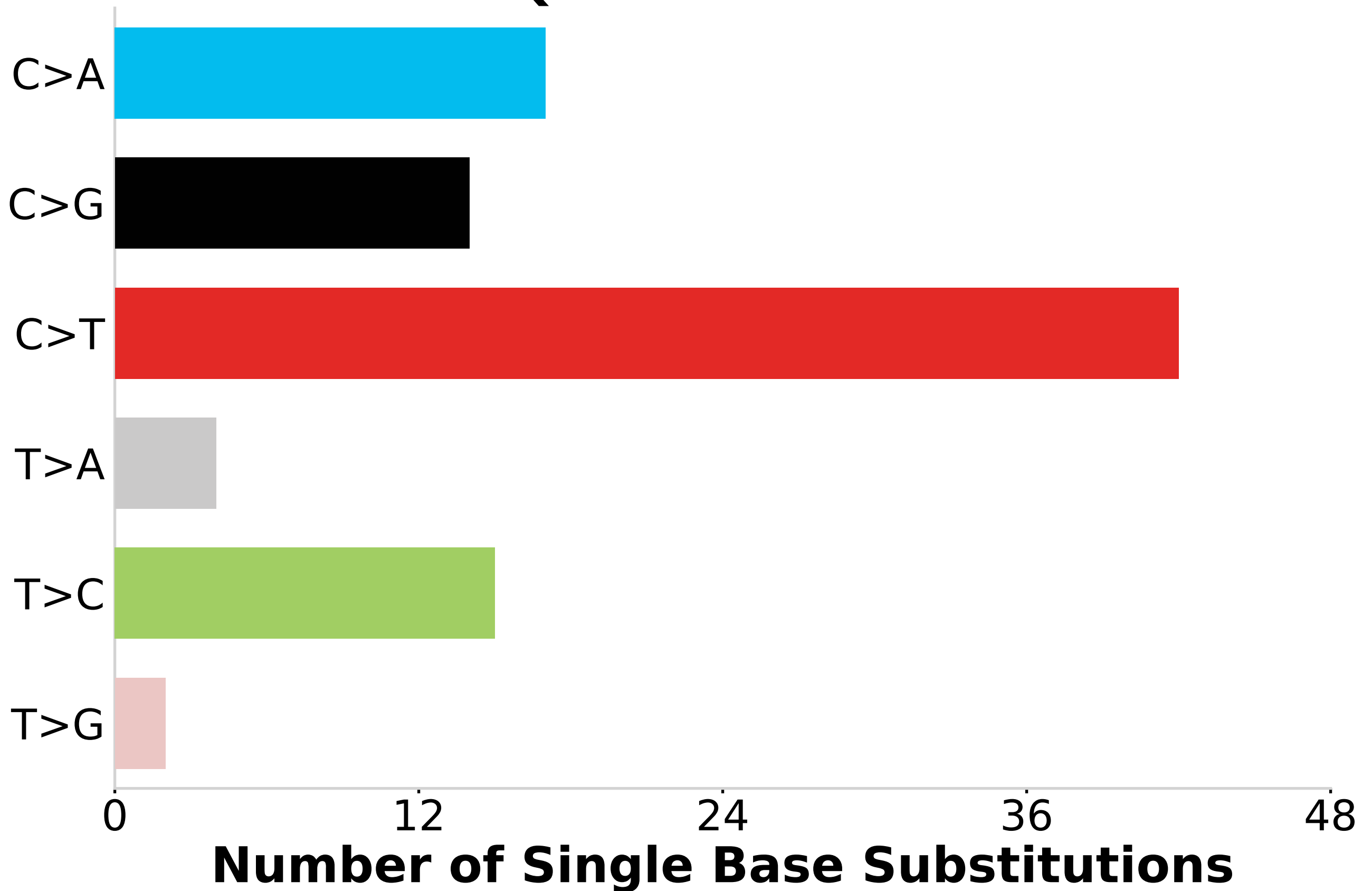
TCGA-GV-A3JZ-01A-11D-A21A-08: 421 subs



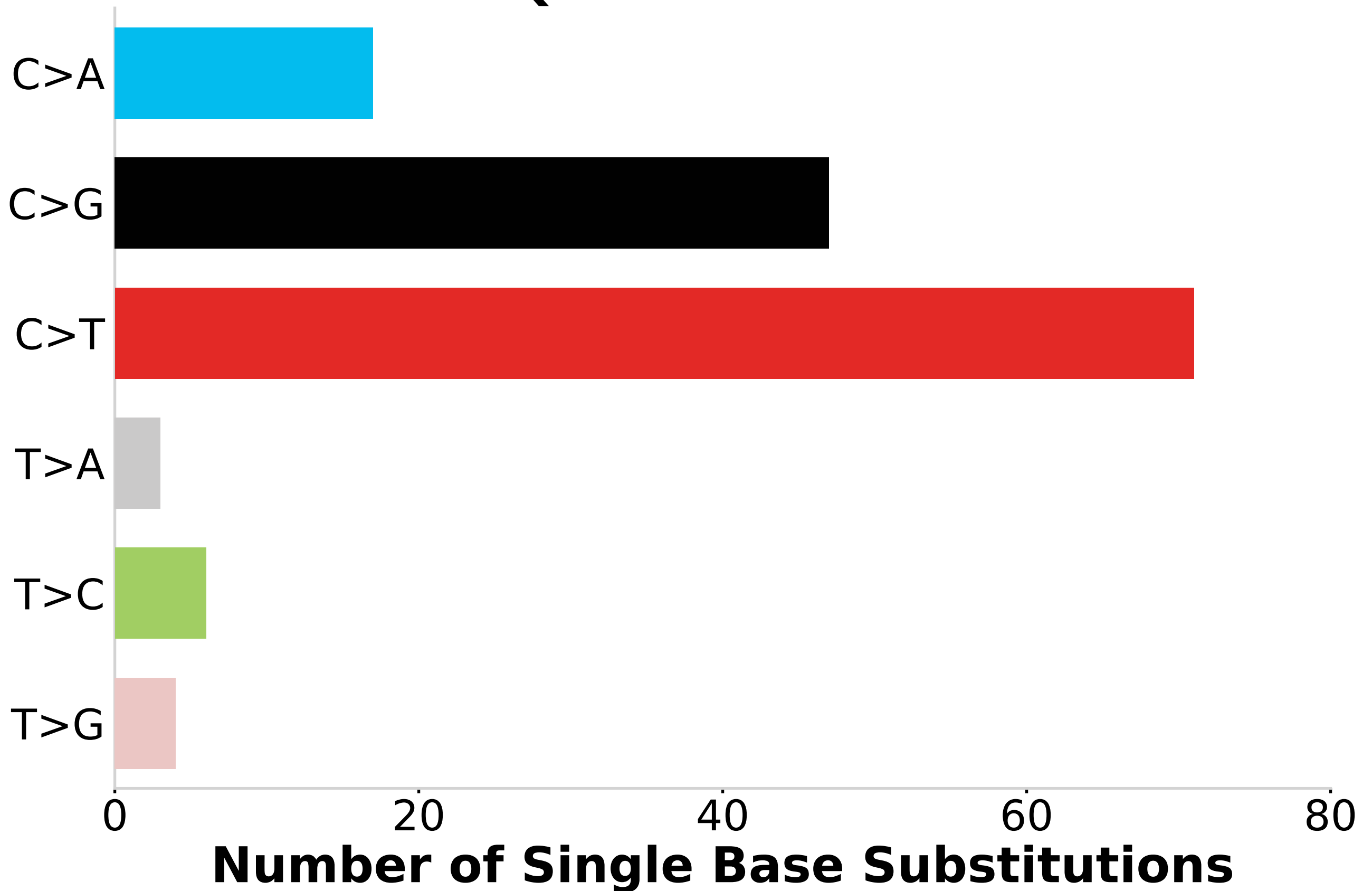
TCGA-GV-A3QF-01A-31D-A22Z-08: 123 sub



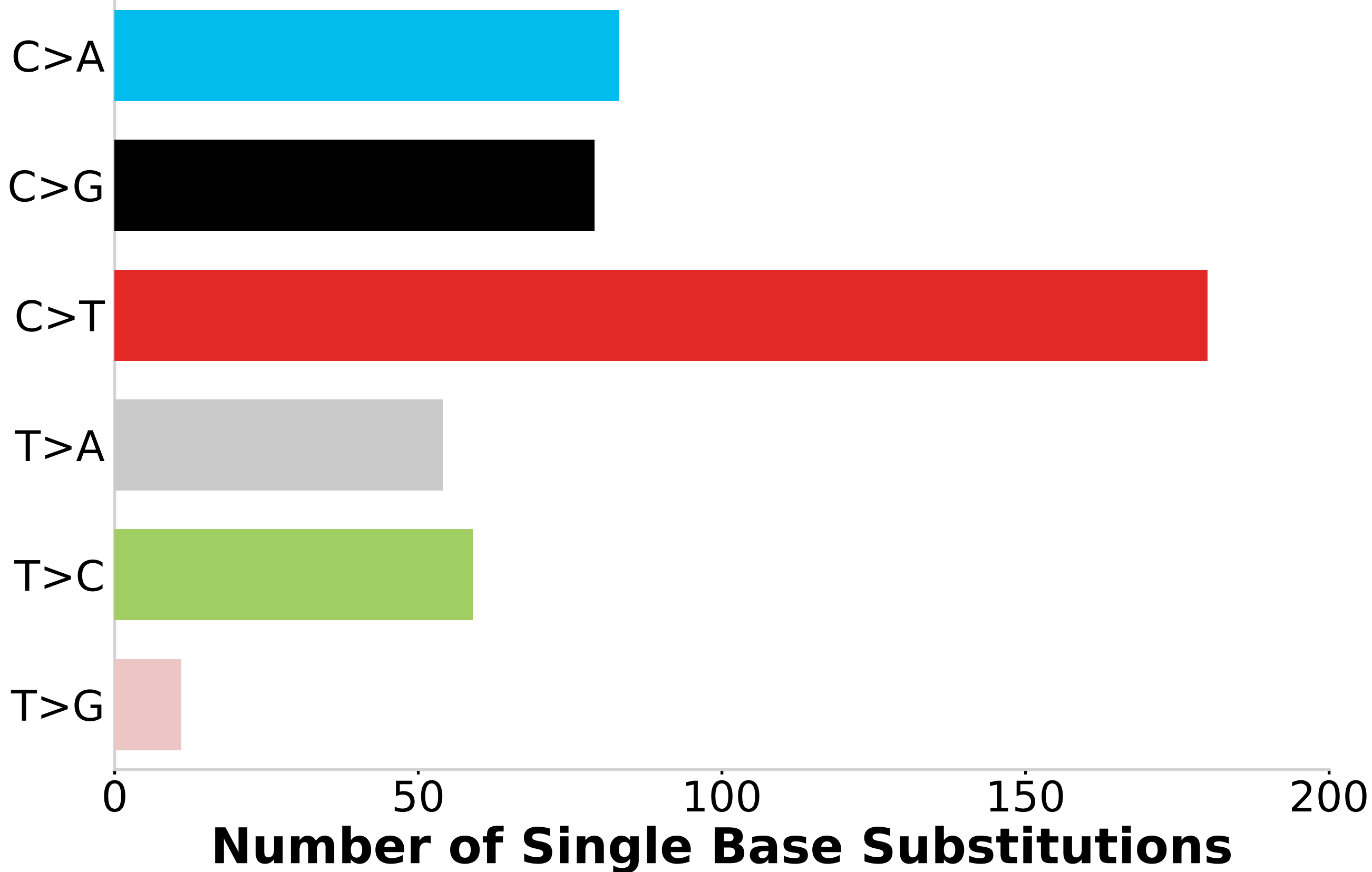
TCGA-GV-A3QG-01A-11D-A21Z-08: 94 subs



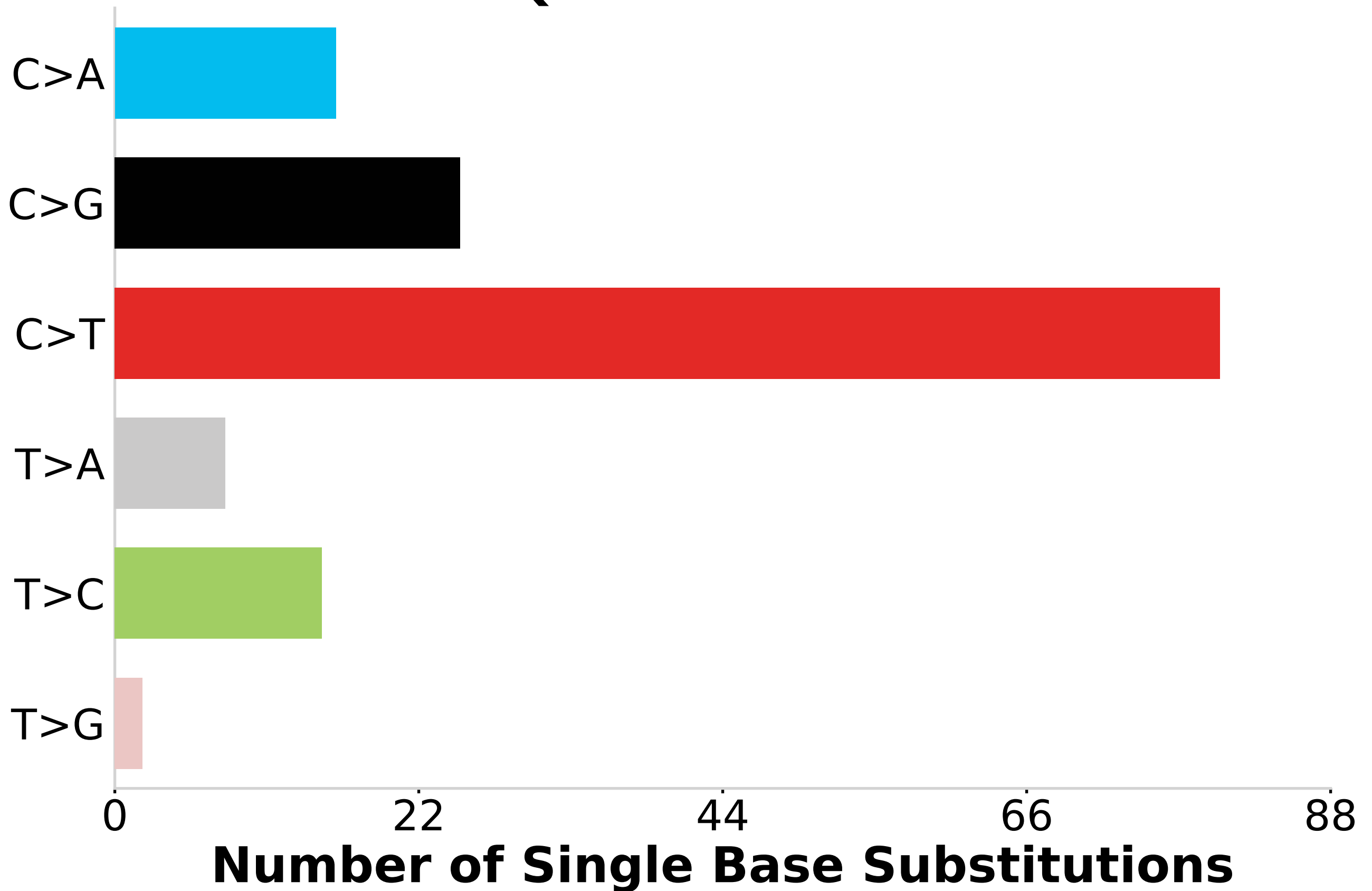
TCGA-GV-A3QH-01A-11D-A21Z-08: 148 sub



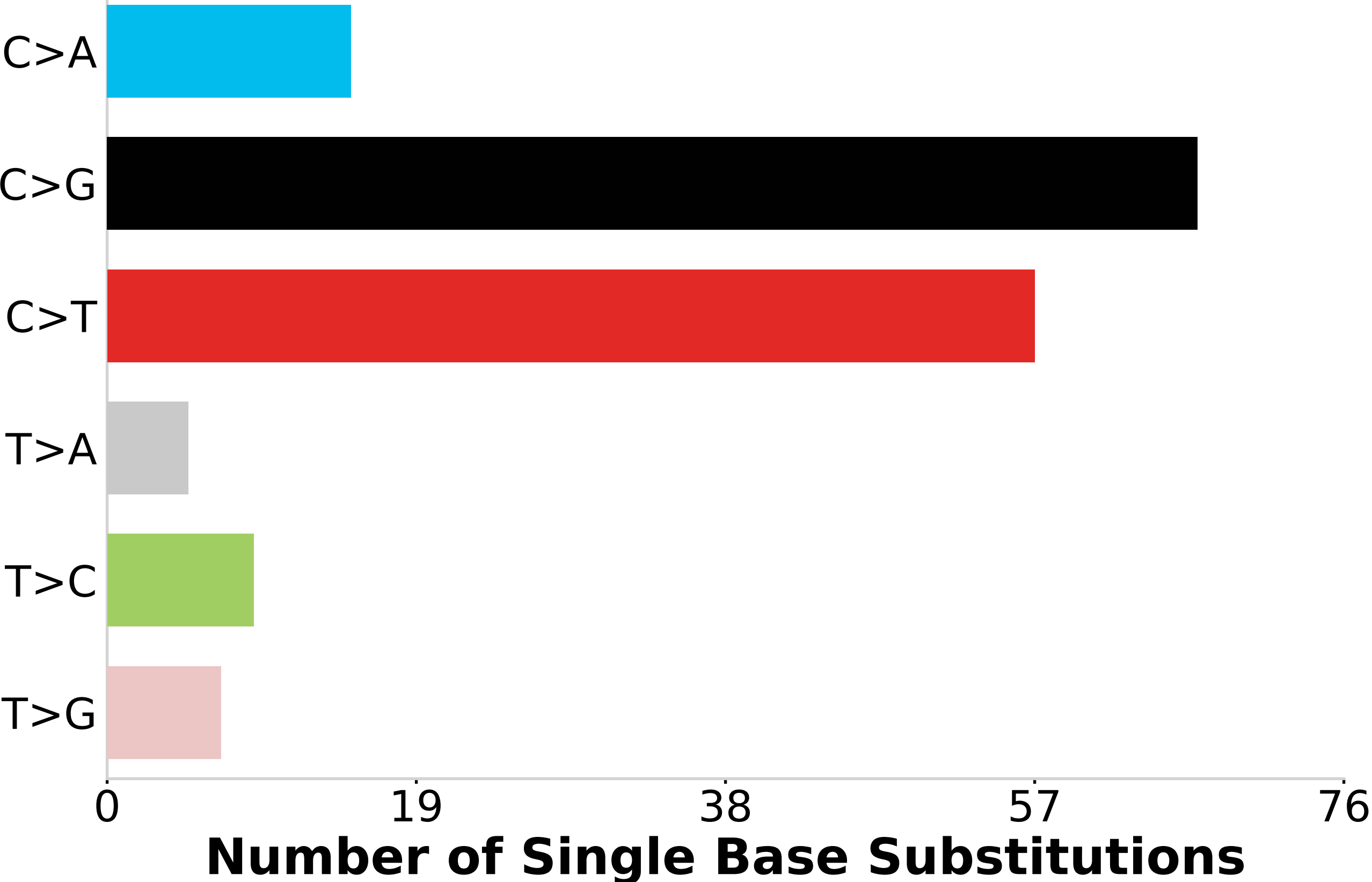
TCGA-GV-A3QI-01A-11D-A21Z-08: 466 sub



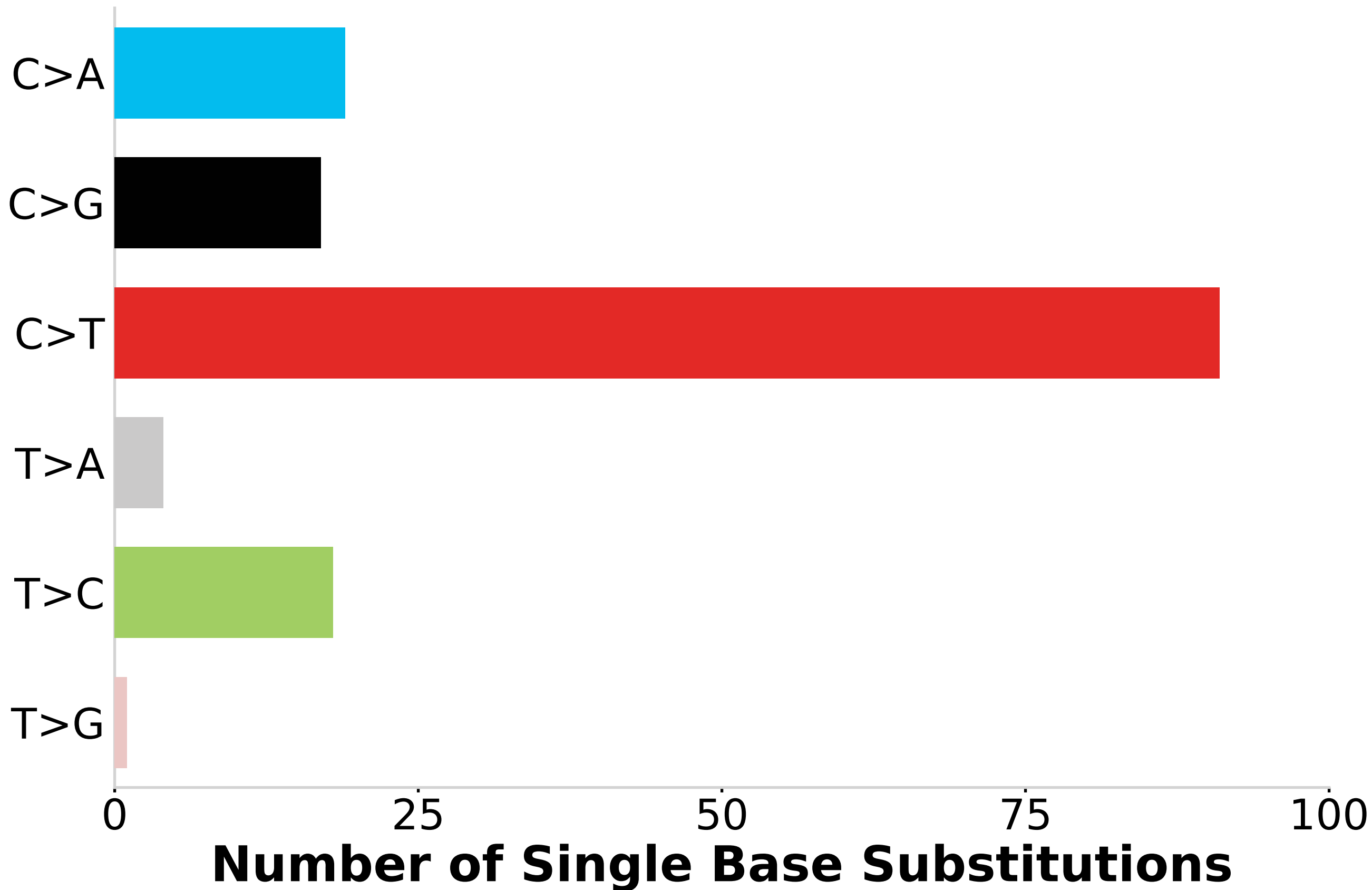
TCGA-GV-A3QK-01B-11D-A23M-08: 146 sub



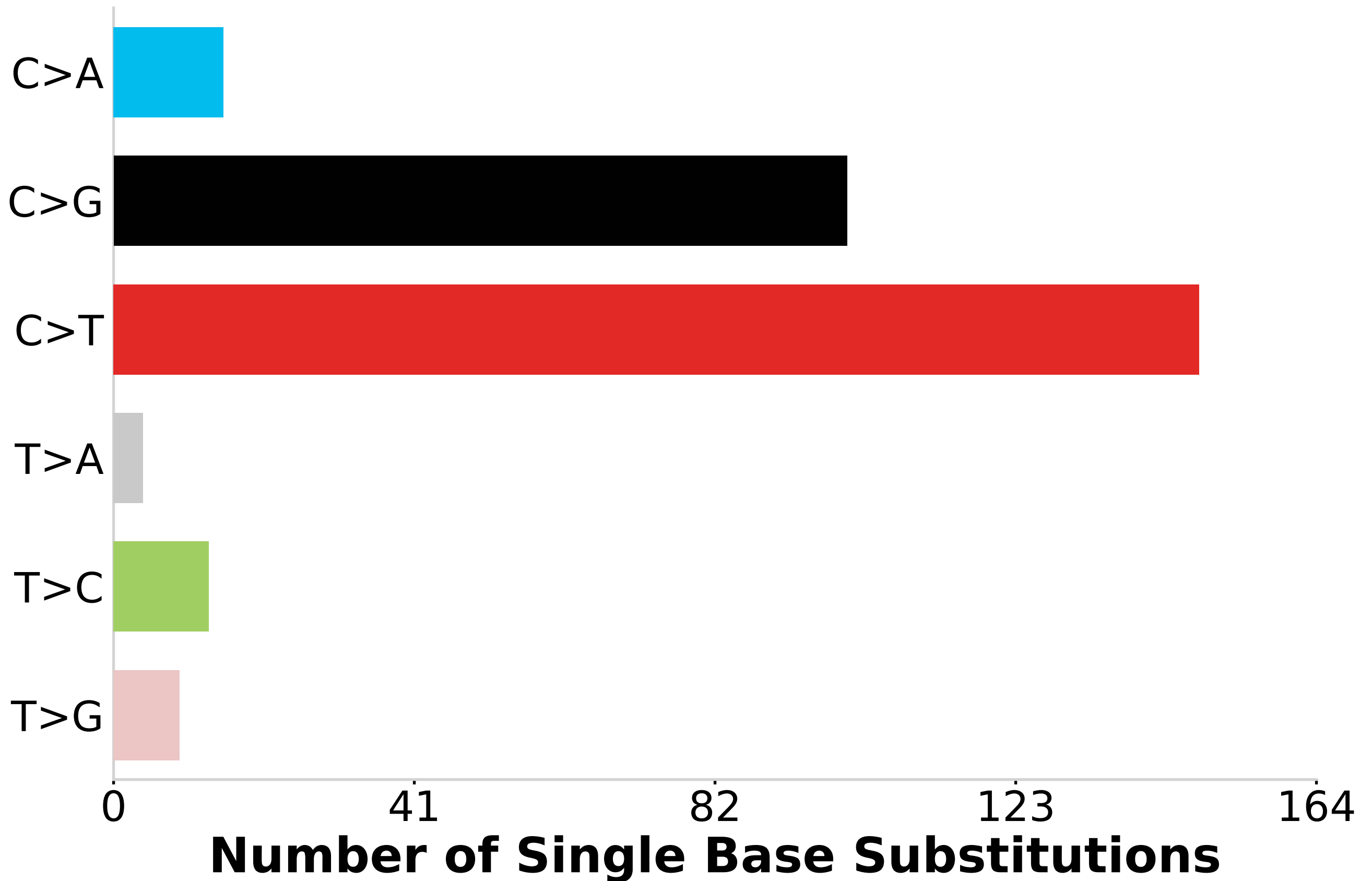
TCGA-GV-A40E-01A-12D-A23M-08: 160 sub



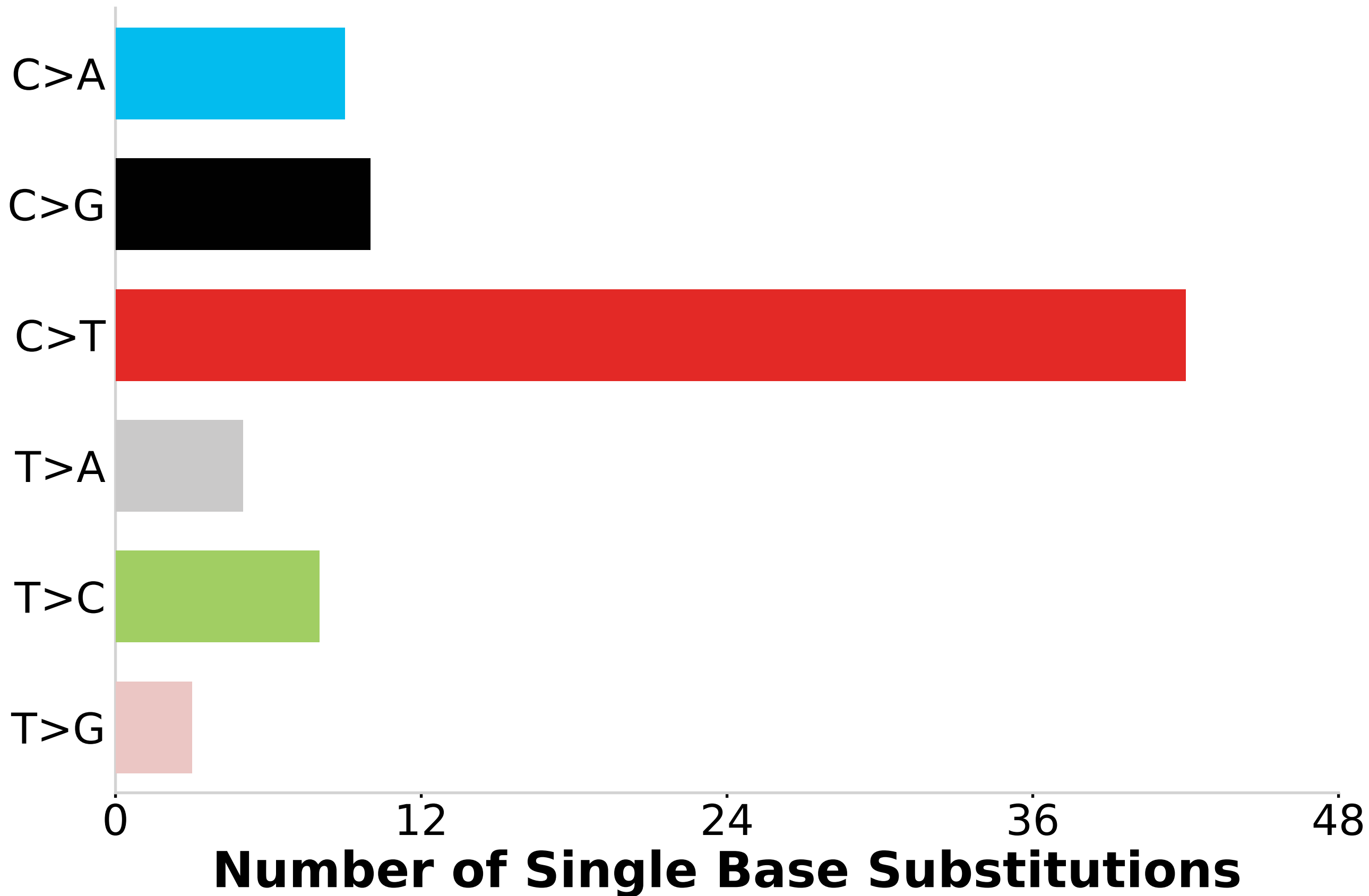
TCGA-GV-A40G-01A-11D-A23M-08: 150 sub



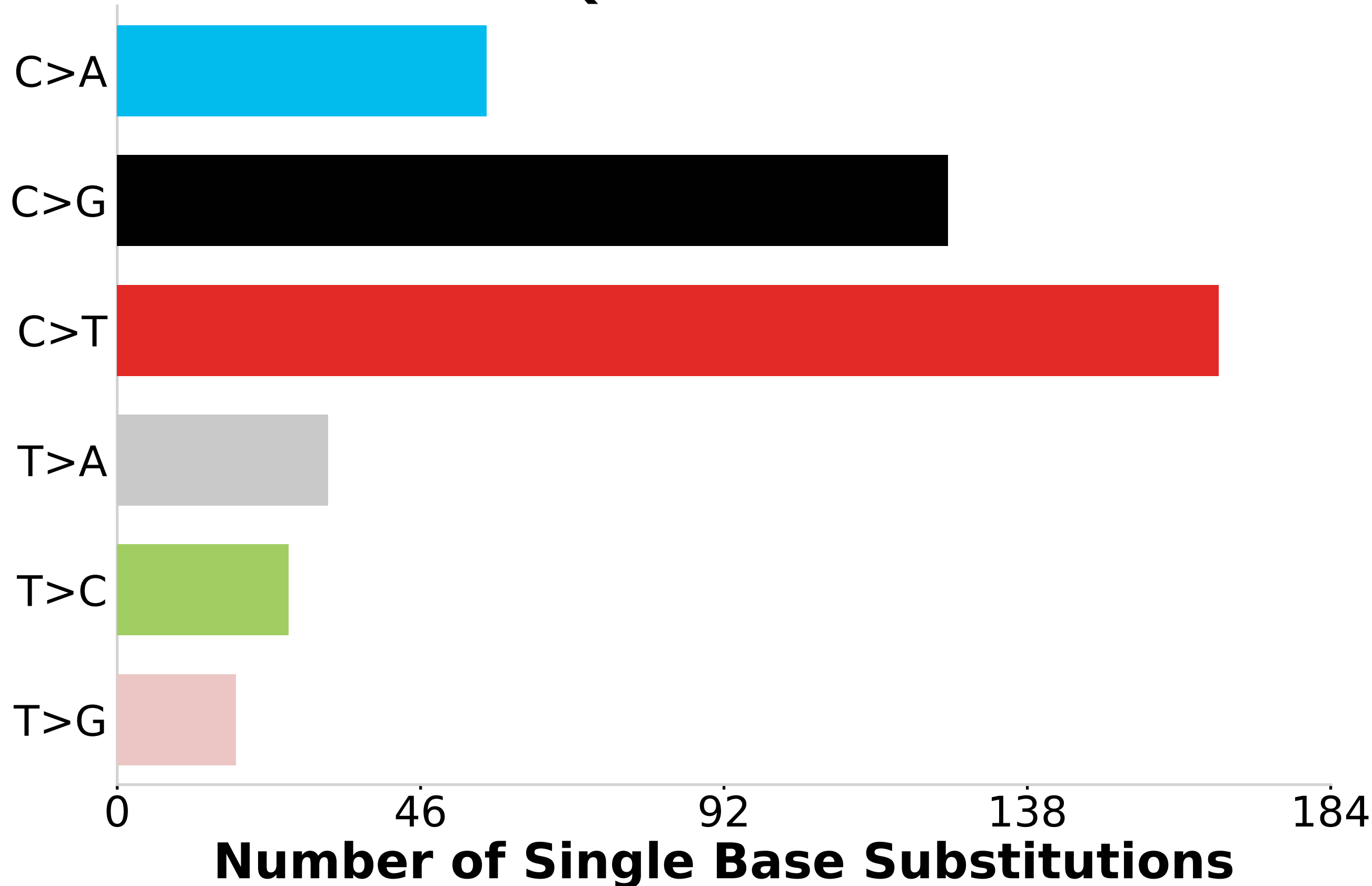
TCGA-GV-A6ZA-01A-12D-A339-08: 289 sub



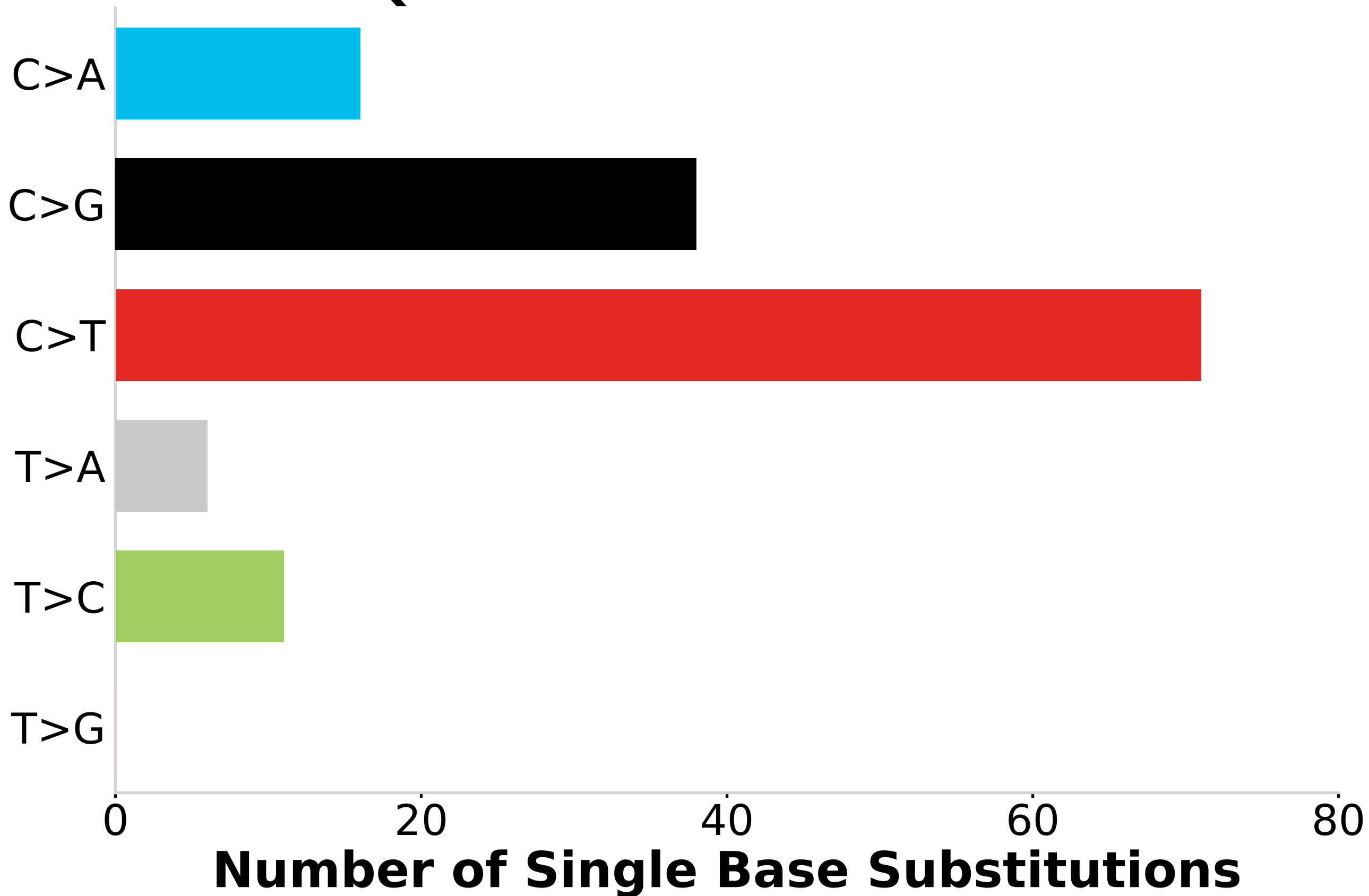
TCGA-H4-A2HO-01A-11D-A17V-08: 77 subs



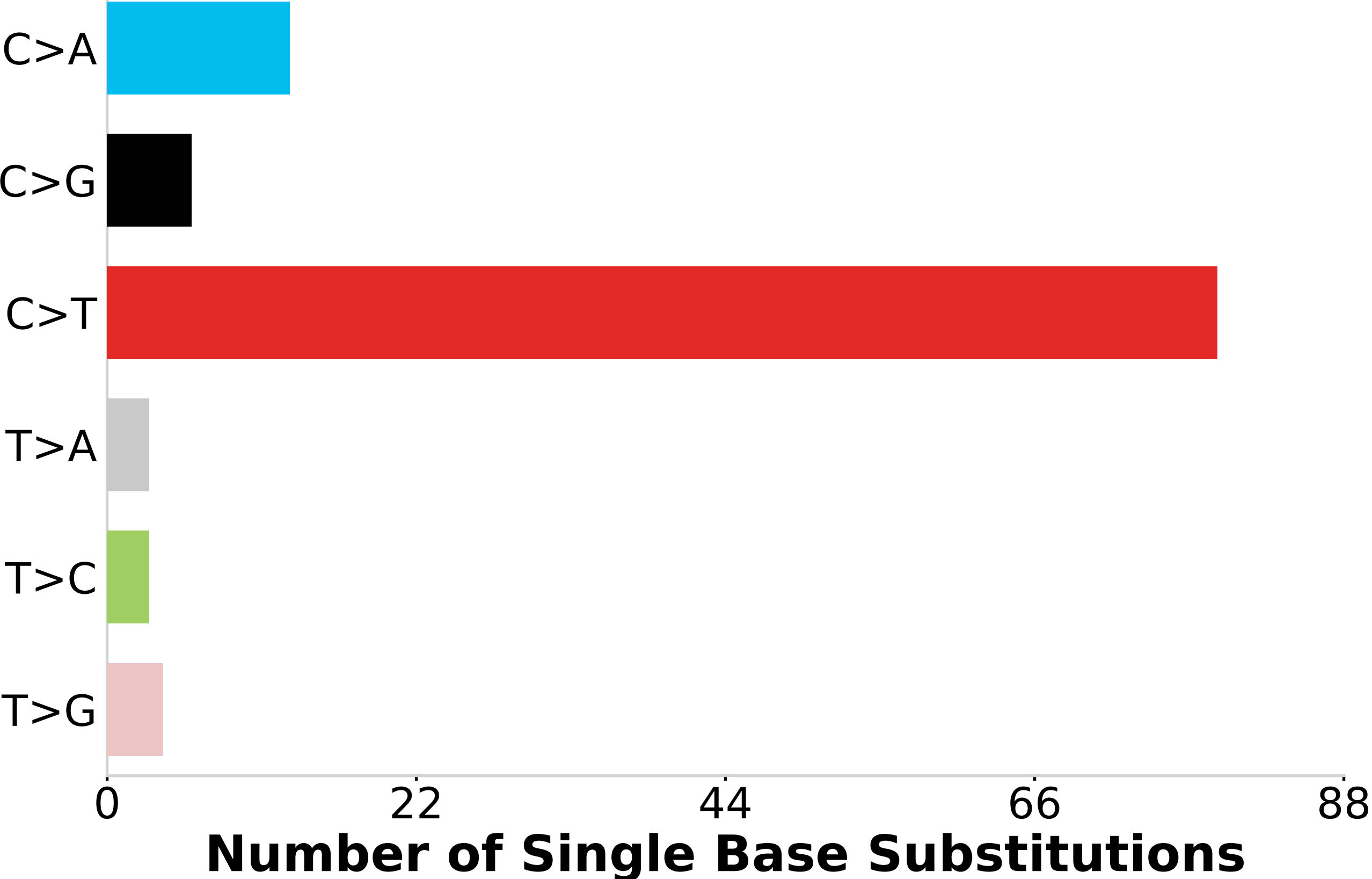
TCGA-H4-A2HQ-01A-11D-A17V-08: 425 substitutions



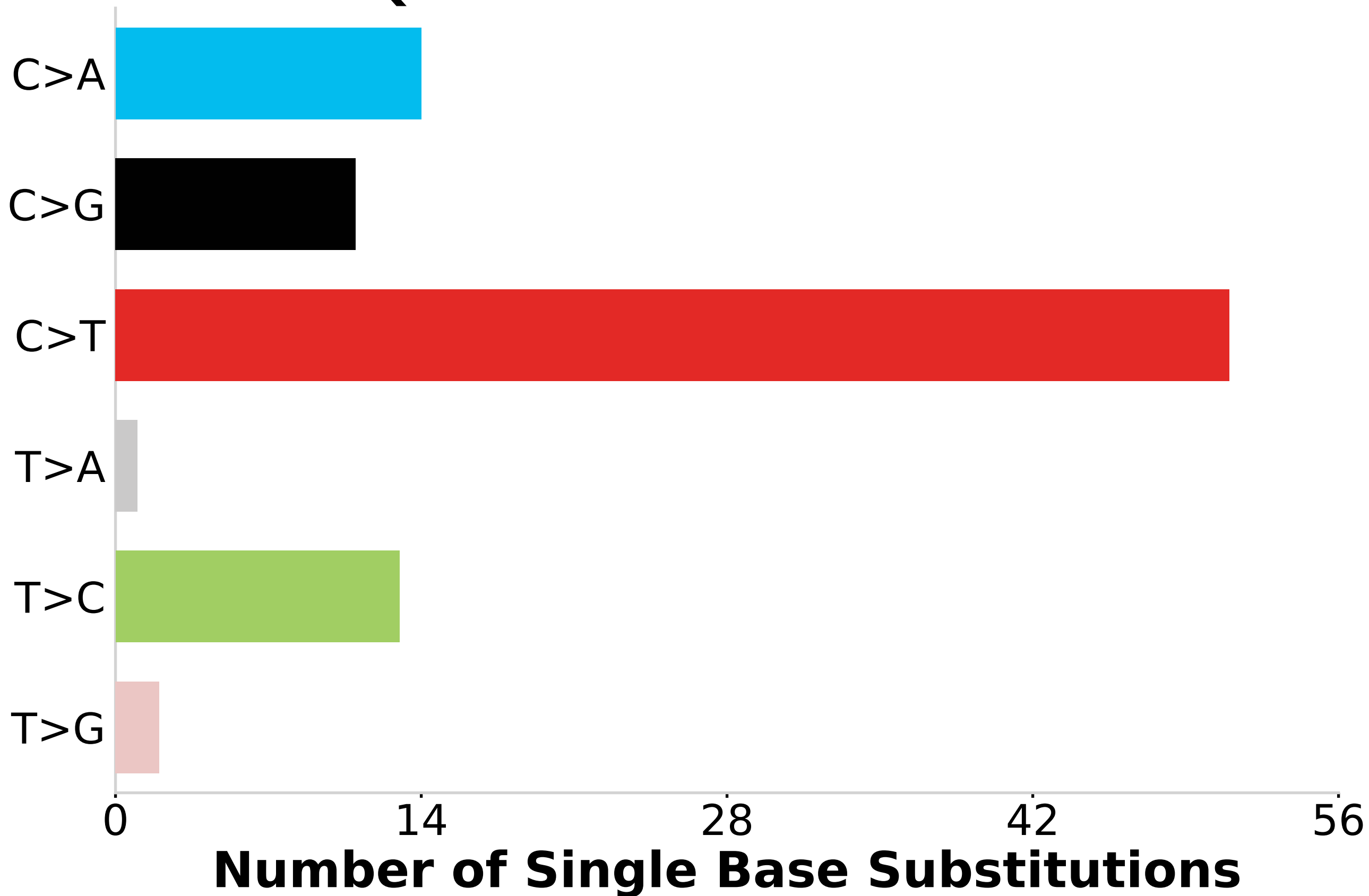
TCGA-HQ-A20E-01A-11D-A202-08: 142 sub



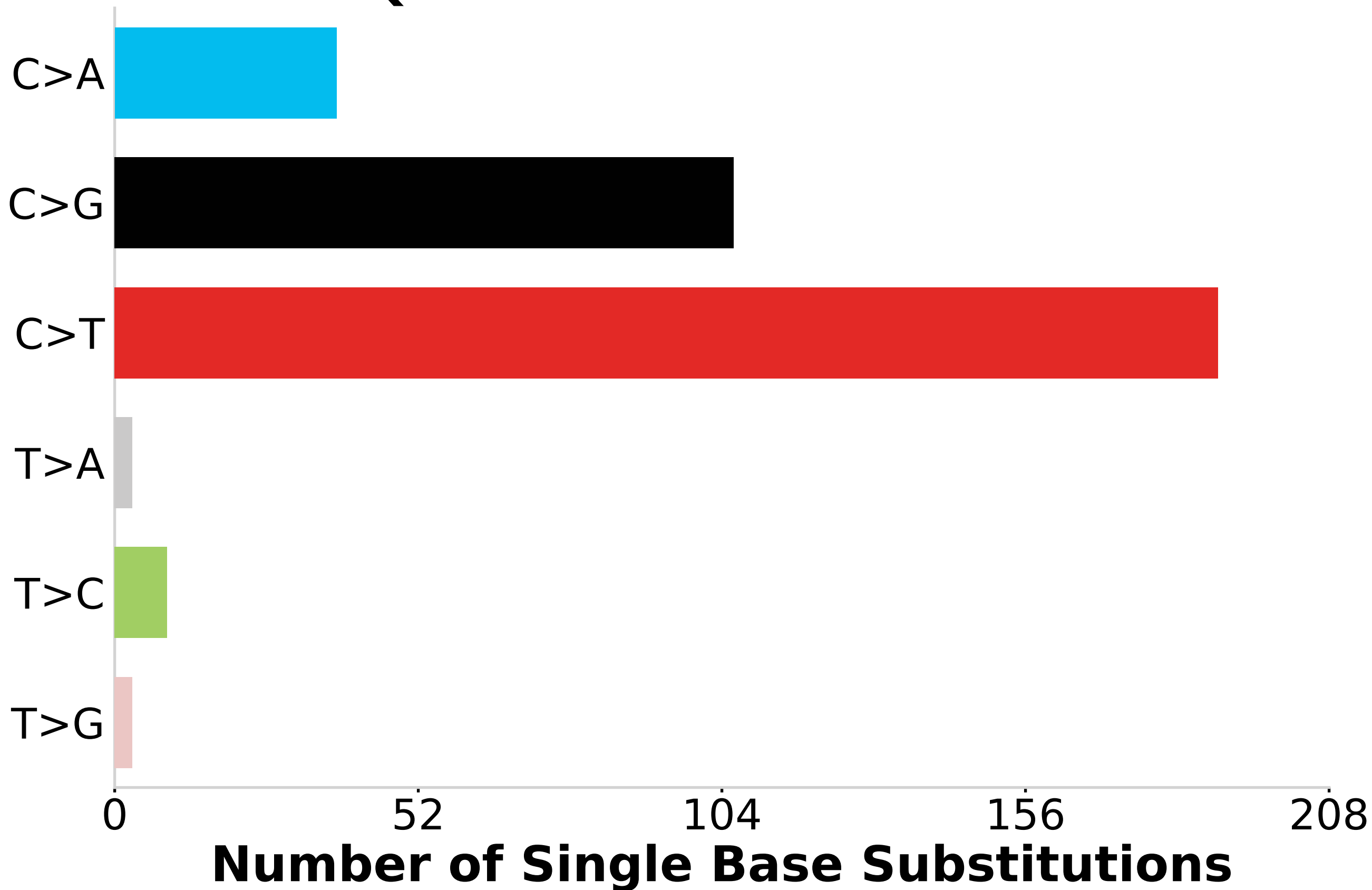
TCGA-HQ-A20F-01A-11D-A26M-08: 108 su



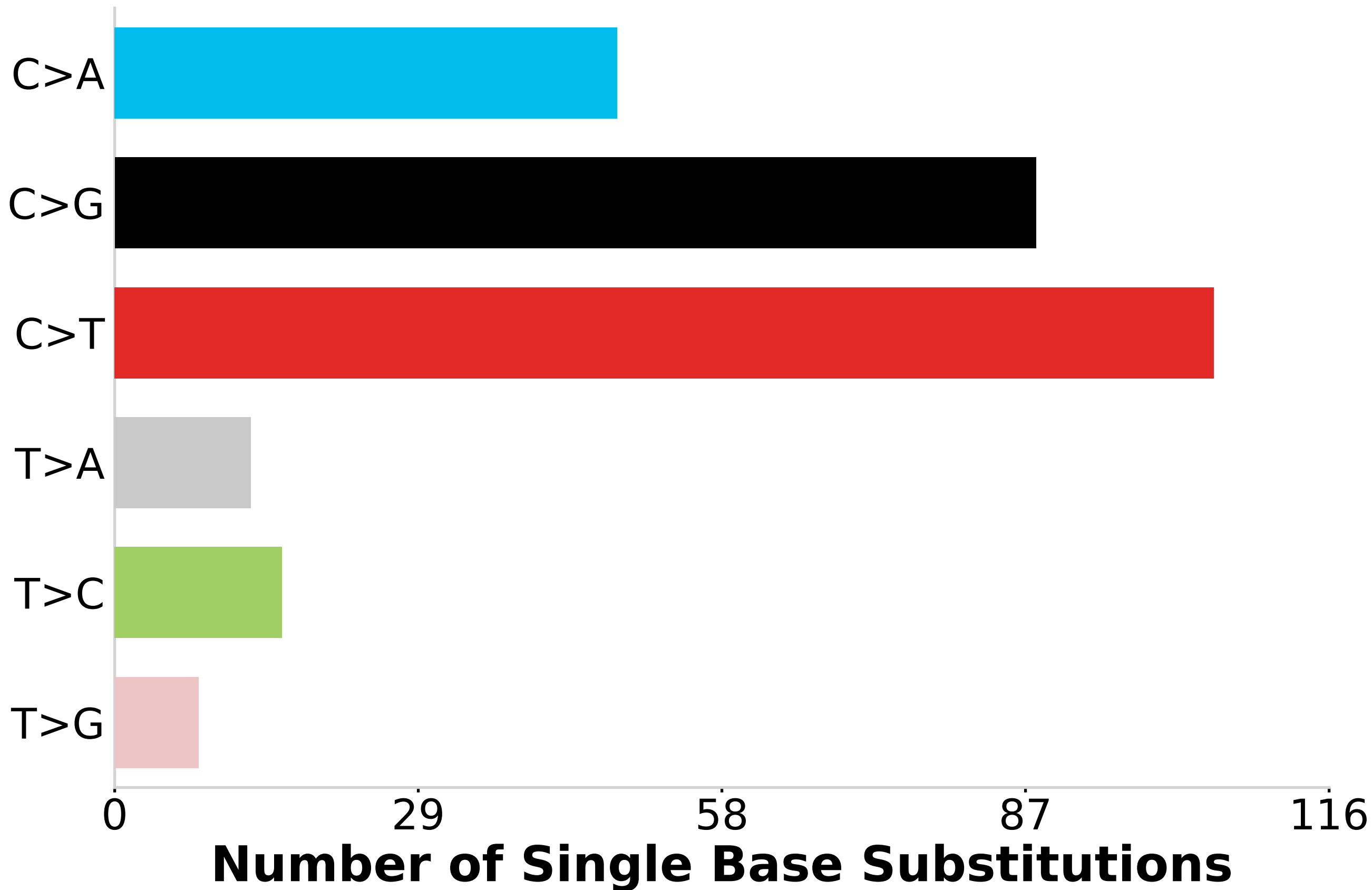
TCGA-HQ-A5ND-01A-11D-A26M-08: 92 sub



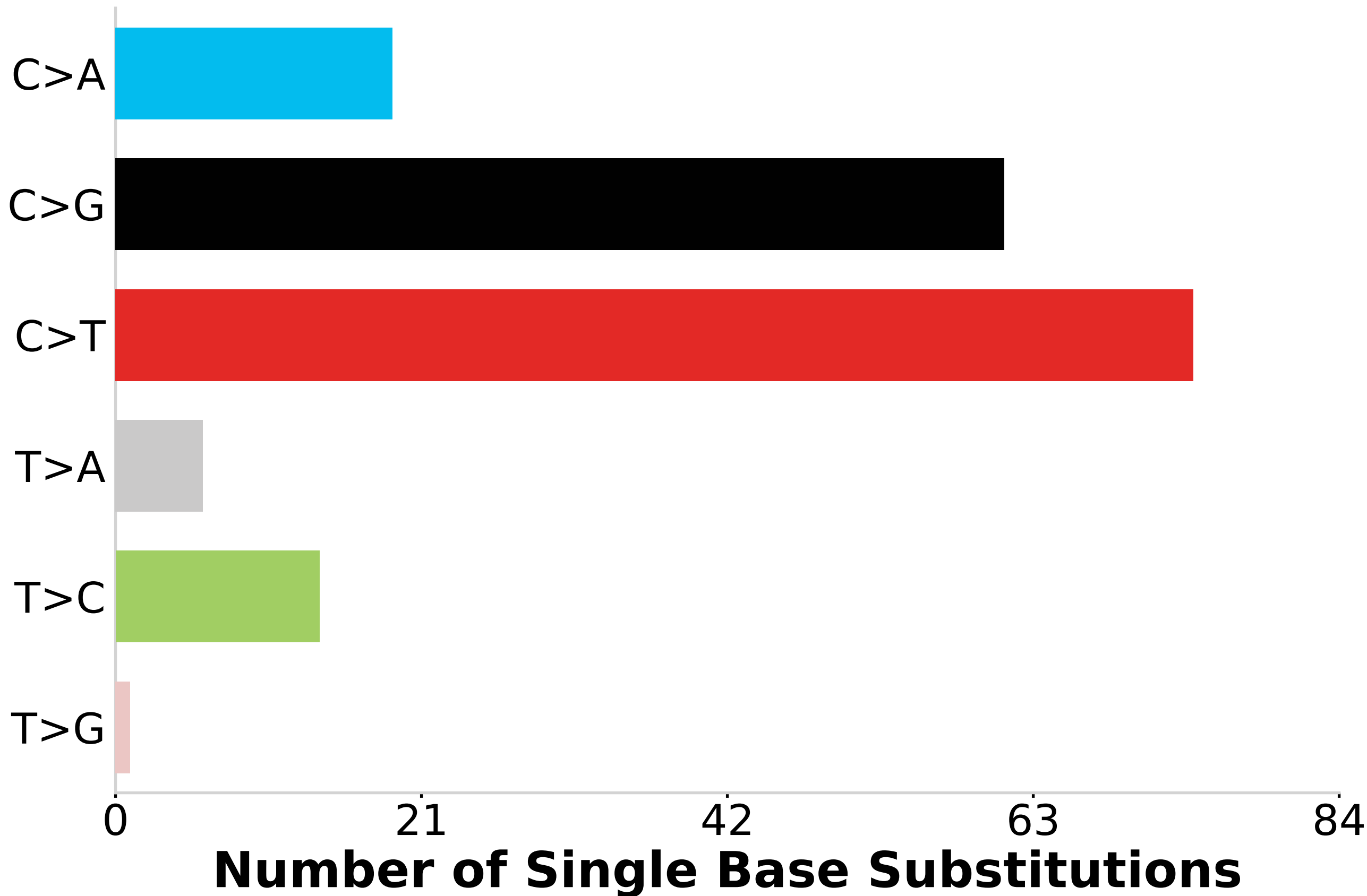
TCGA-HQ-A5NE-01A-12D-A289-08: 348 sub



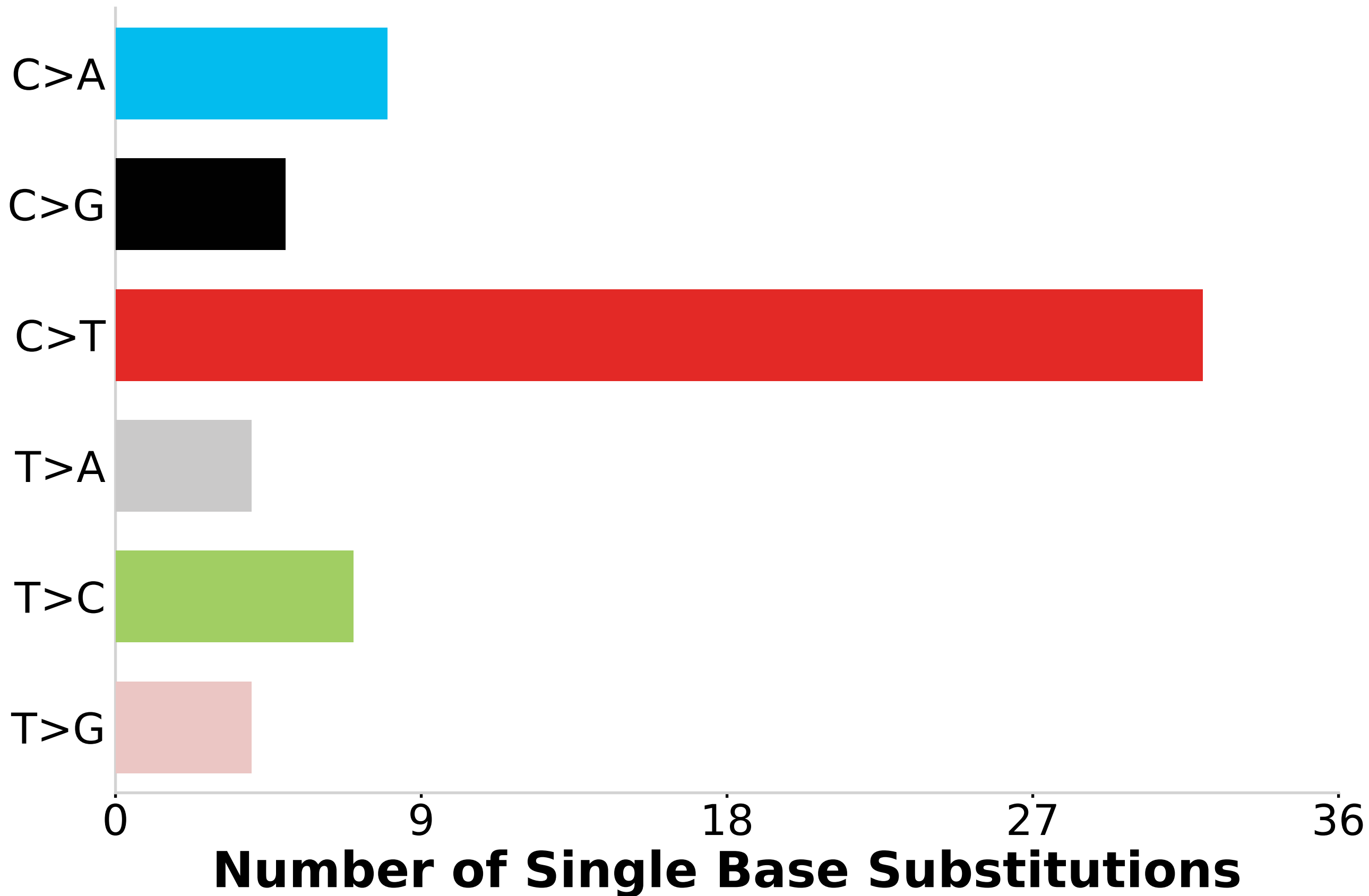
TCGA-K4-A3WS-01A-11D-A22Z-08: 278 sub



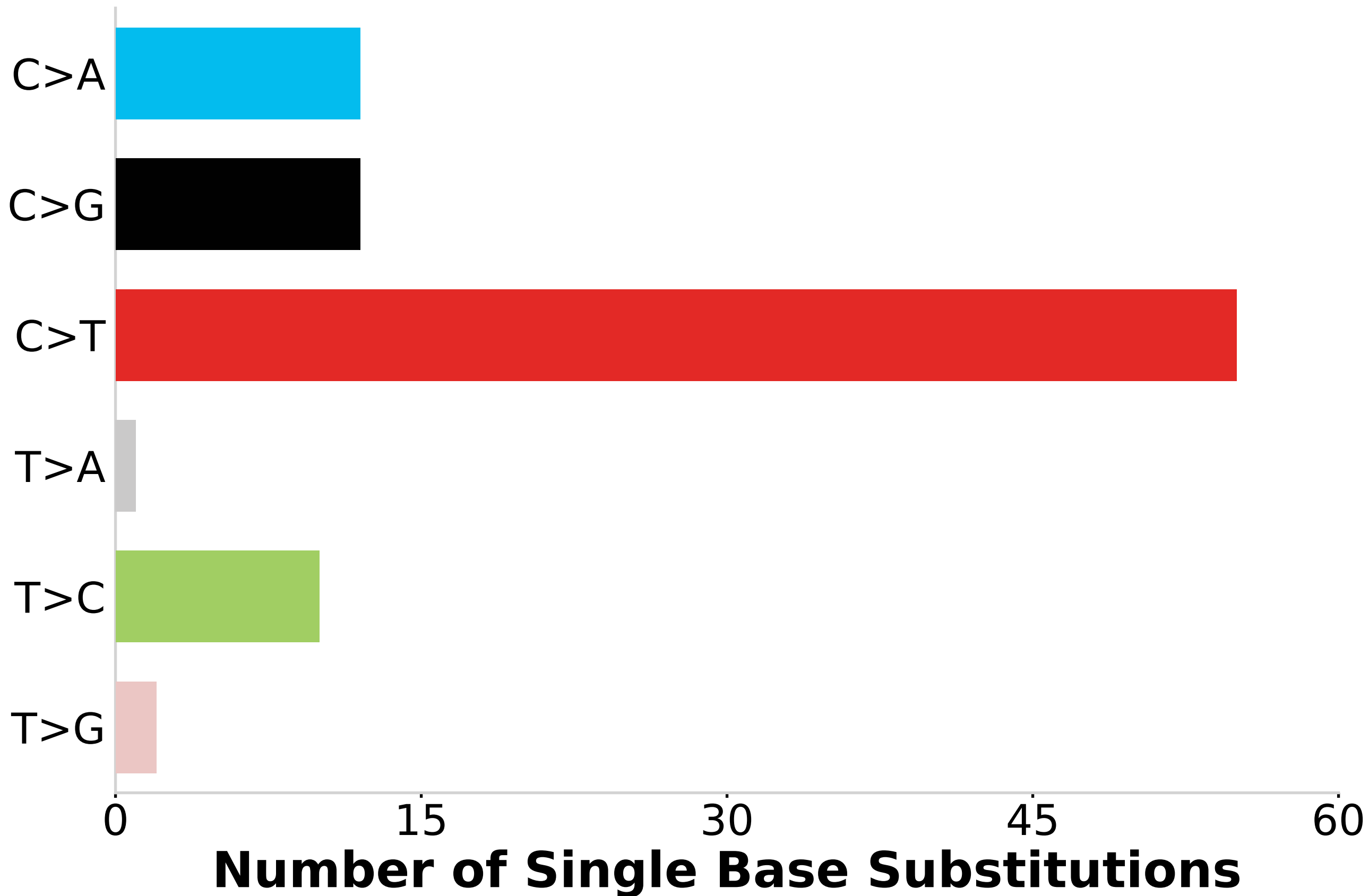
TCGA-K4-A3WU-01B-11D-A23M-08: 175 su



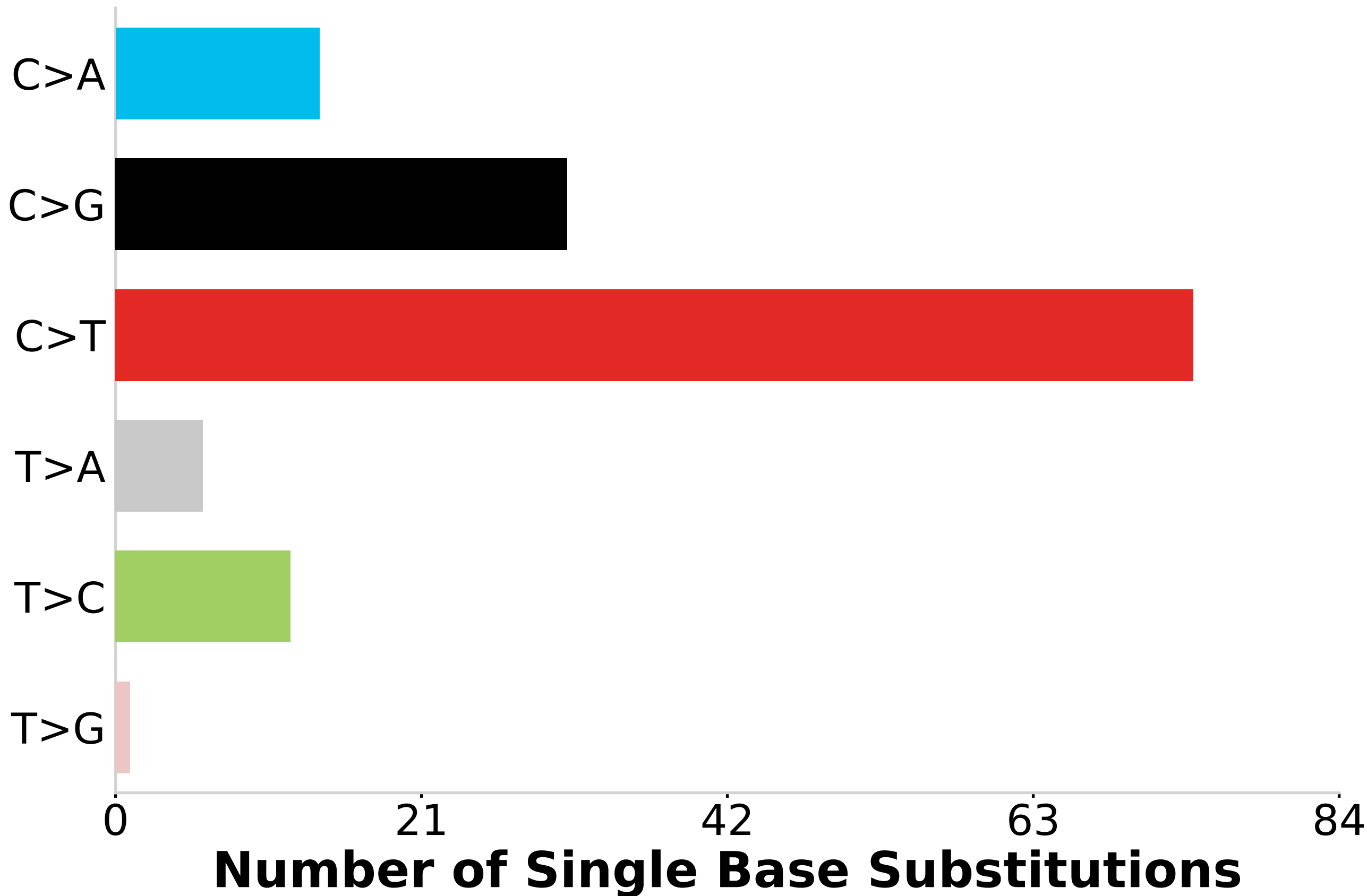
TCGA-K4-A3WV-01A-11D-A22Z-08: 60 subs



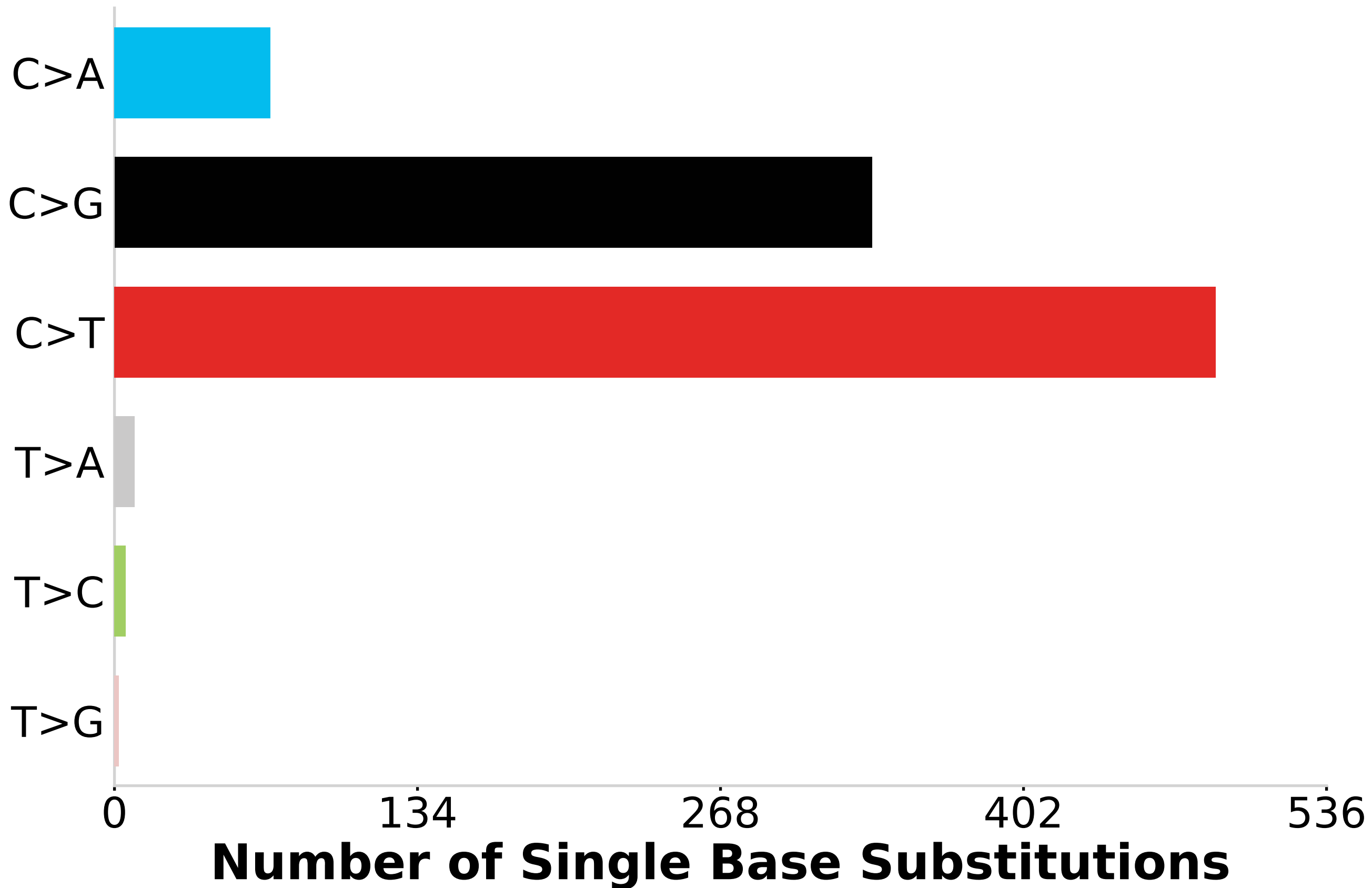
TCGA-K4-A4AB-01B-12D-A289-08: 92 subs



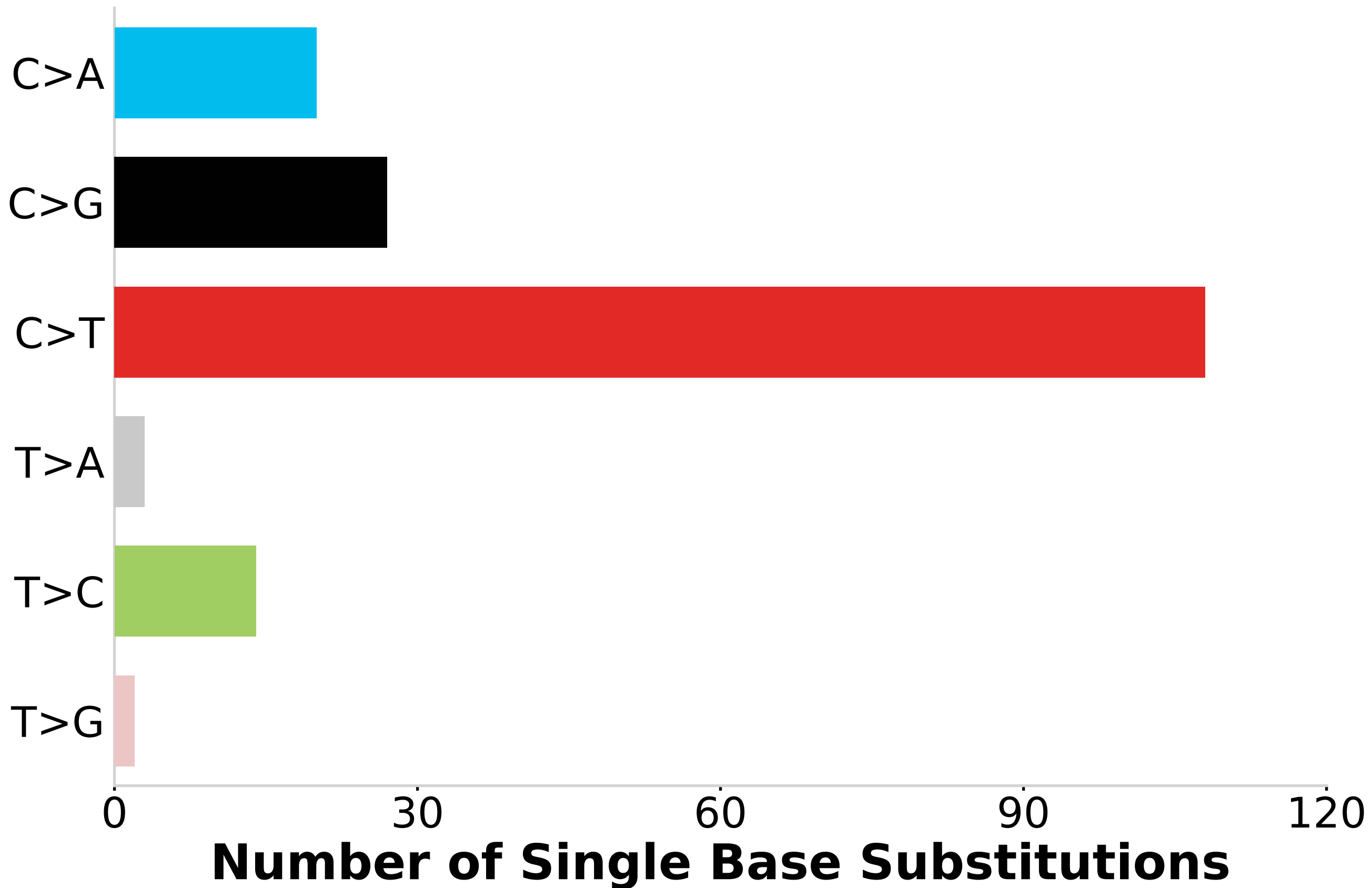
TCGA-K4-A4AC-01A-21D-A26M-08: 138 su



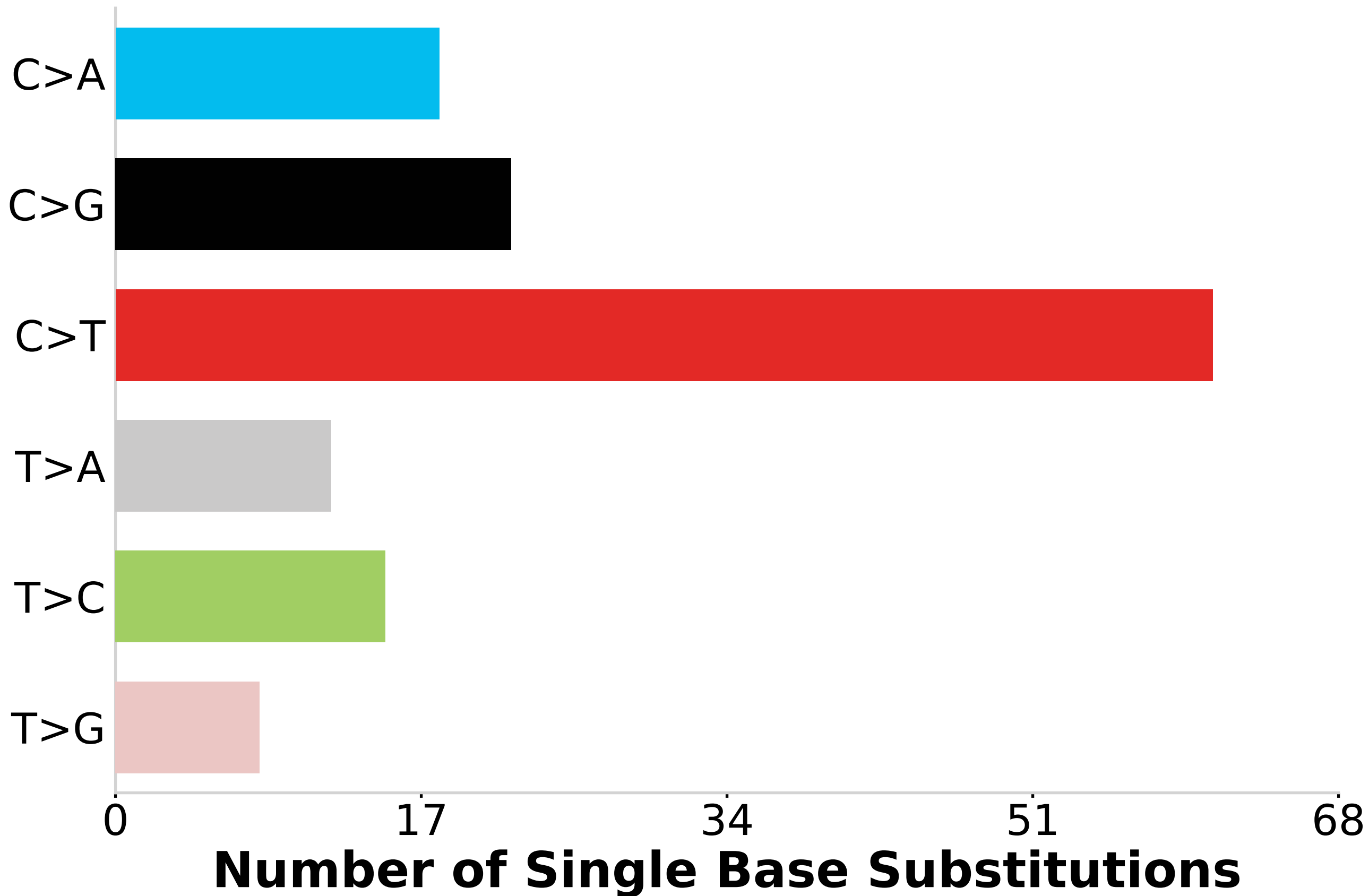
TCGA-K4-A54R-01A-11D-A26M-08: 907 sub



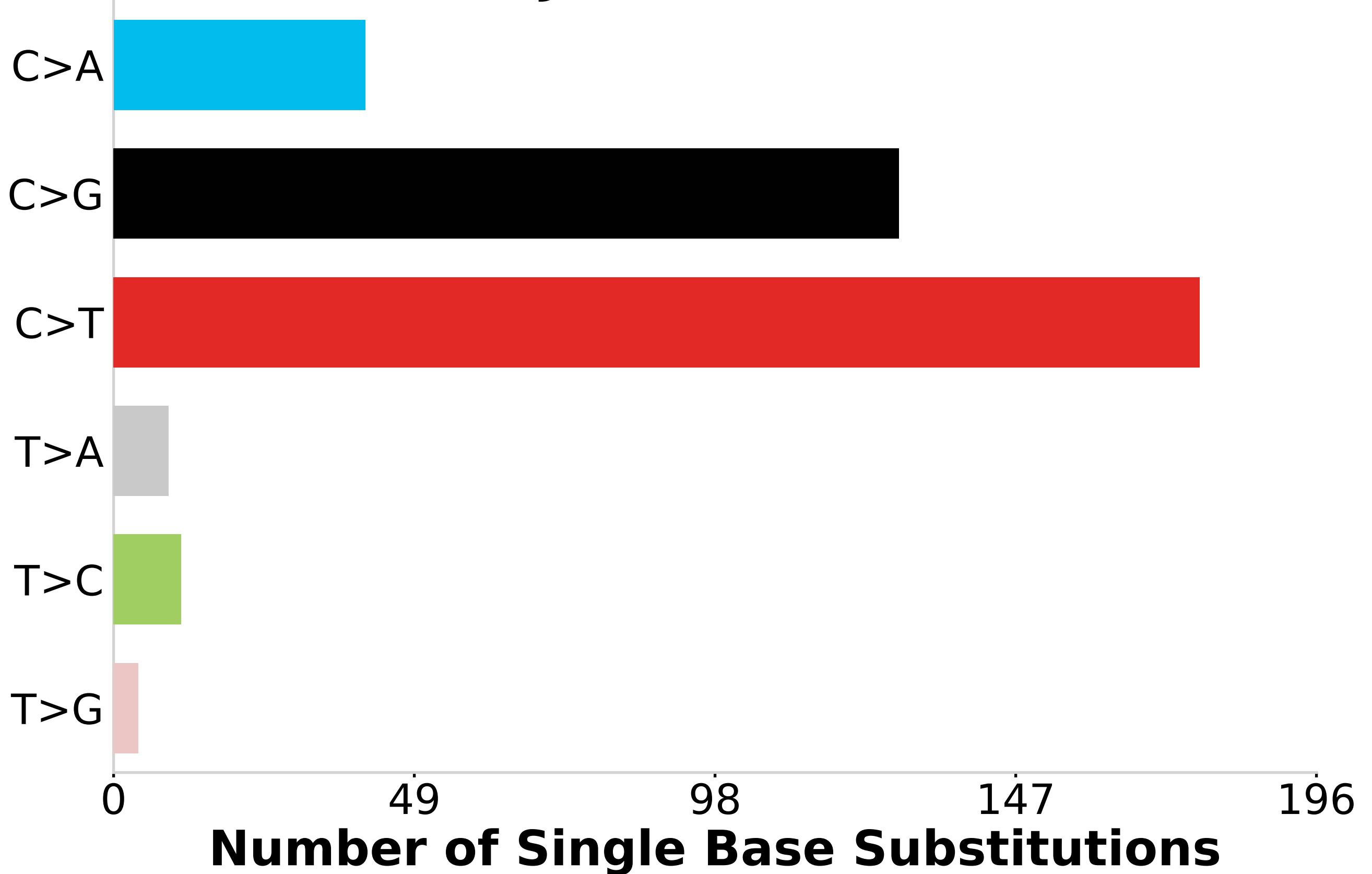
TCGA-K4-A5RH-01A-11D-A30E-08: 174 sub



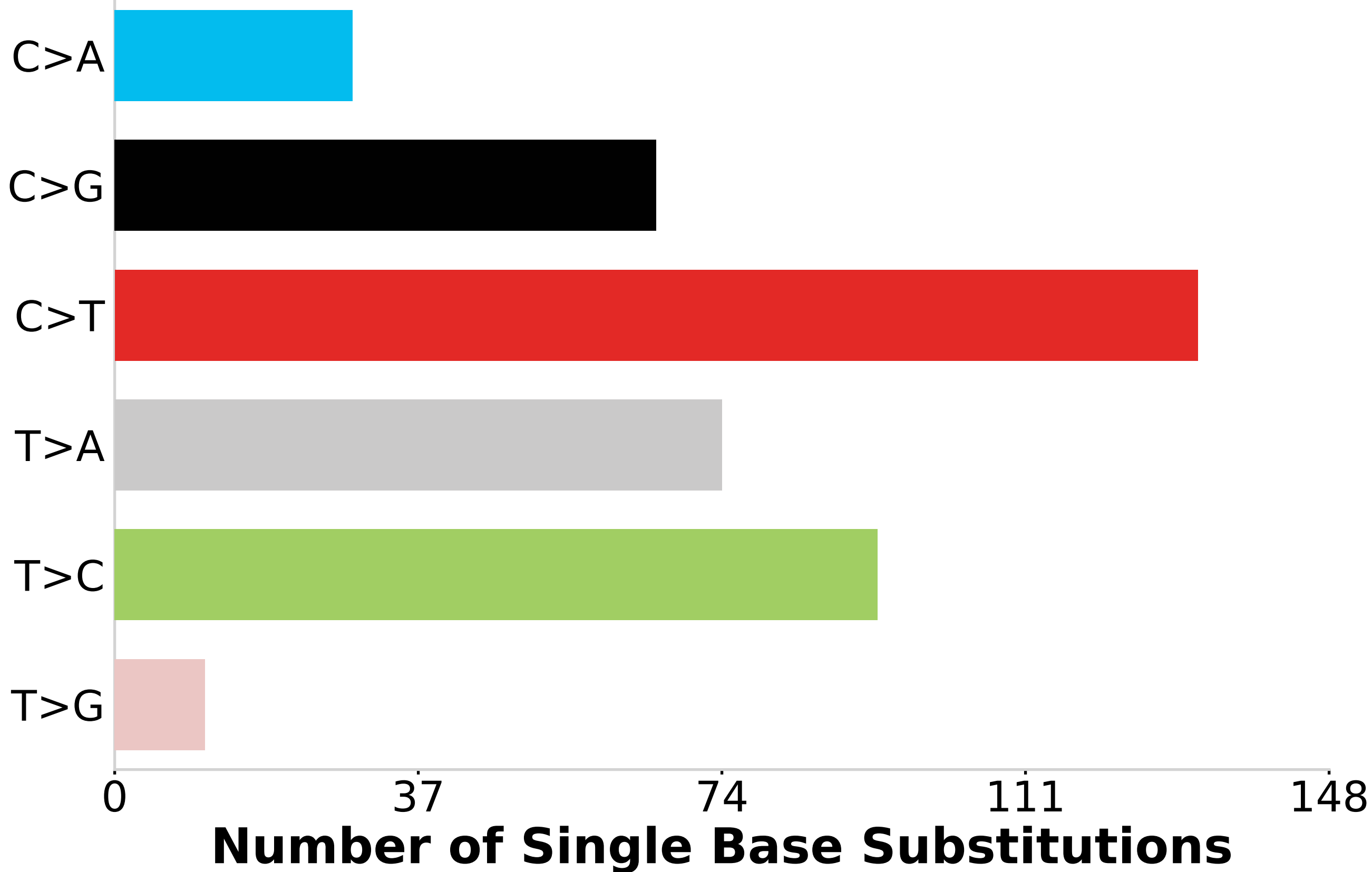
TCGA-K4-A5RI-01A-11D-A289-08: 136 subs



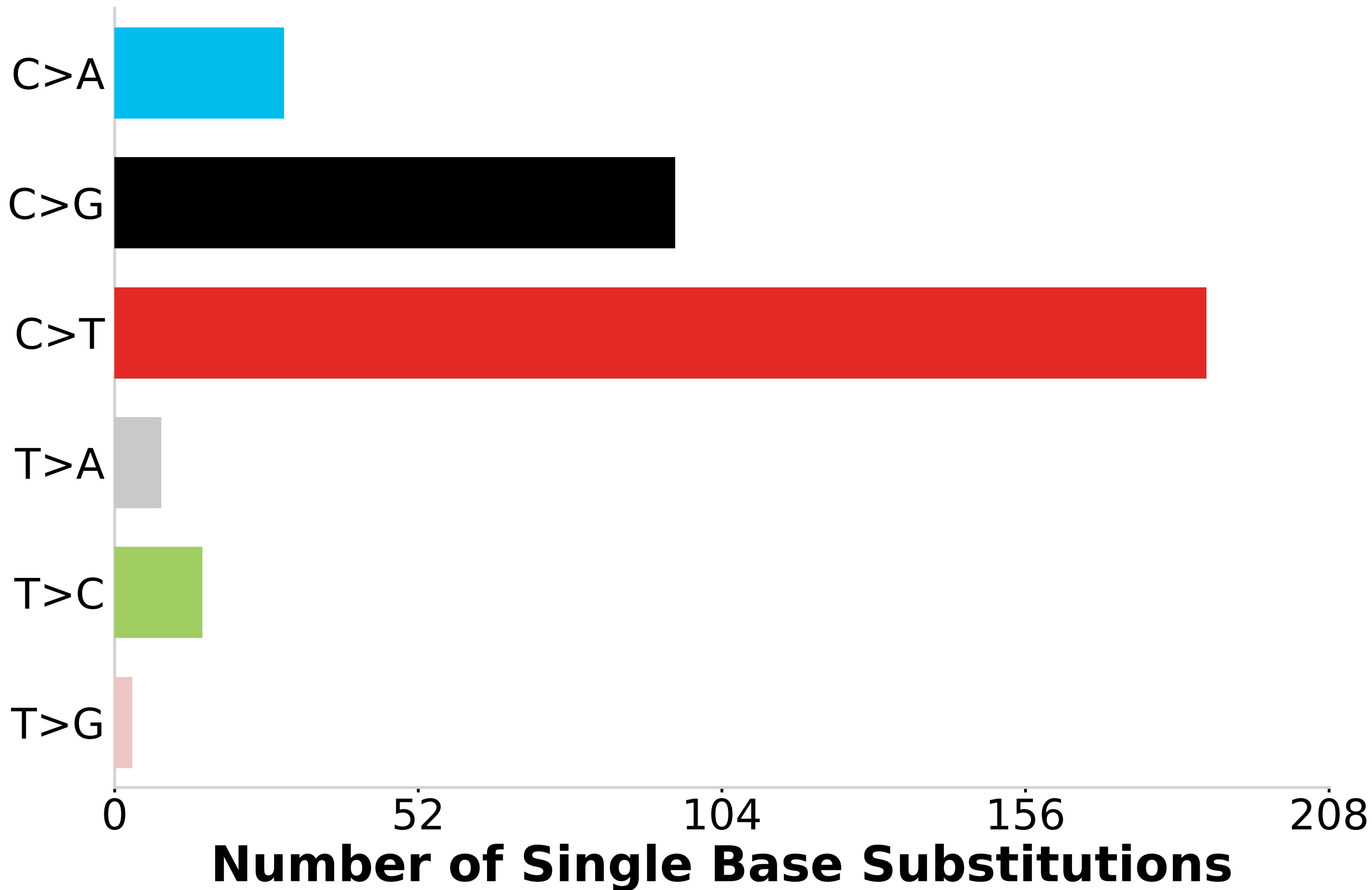
TCGA-K4-A5RJ-01A-11D-A289-08: 370 subs



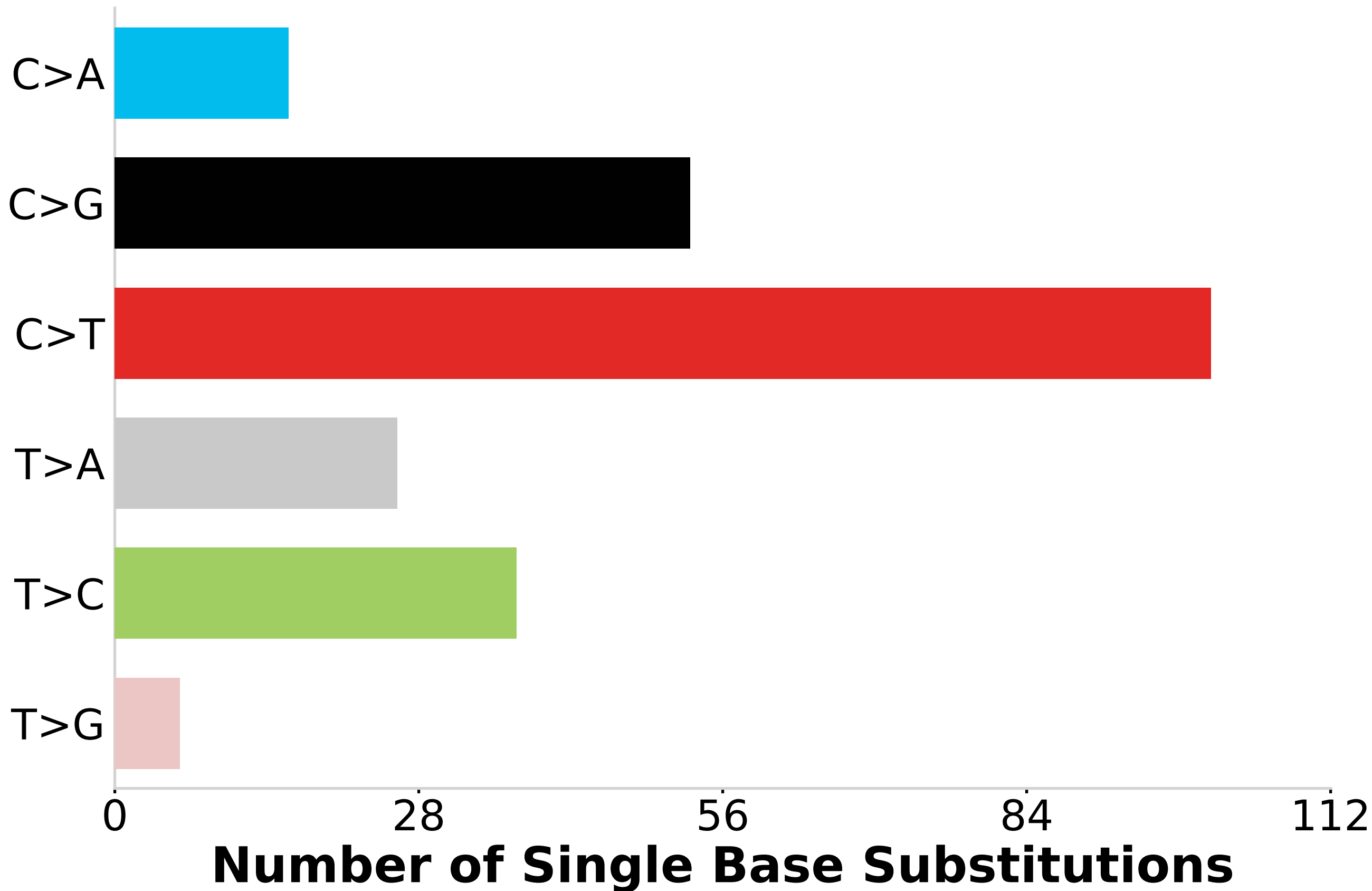
TCGA-K4-A6FZ-01A-11D-A31L-08: 405 sub



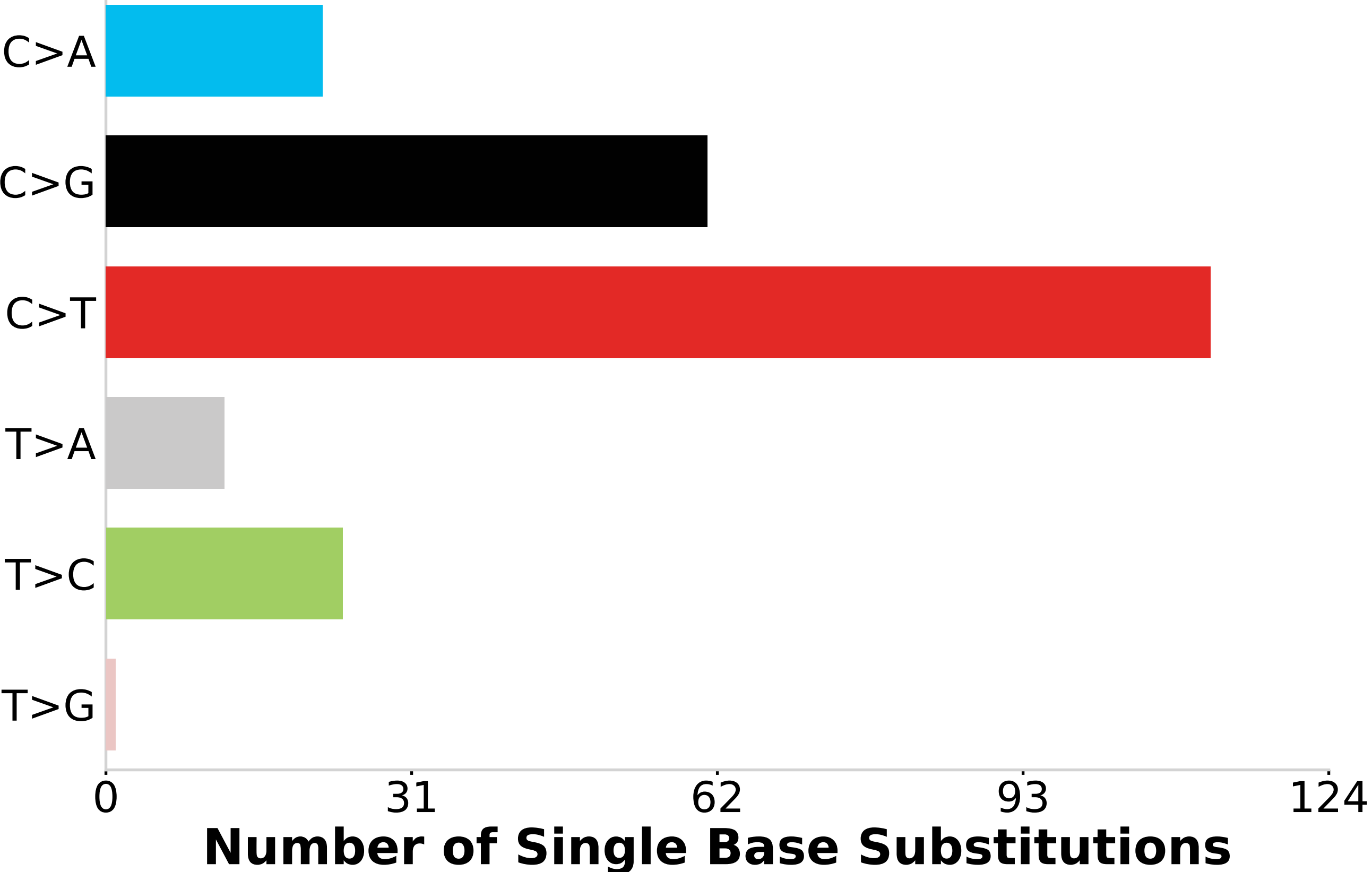
TCGA-K4-A6MB-01A-11D-A31L-08: 338 sub



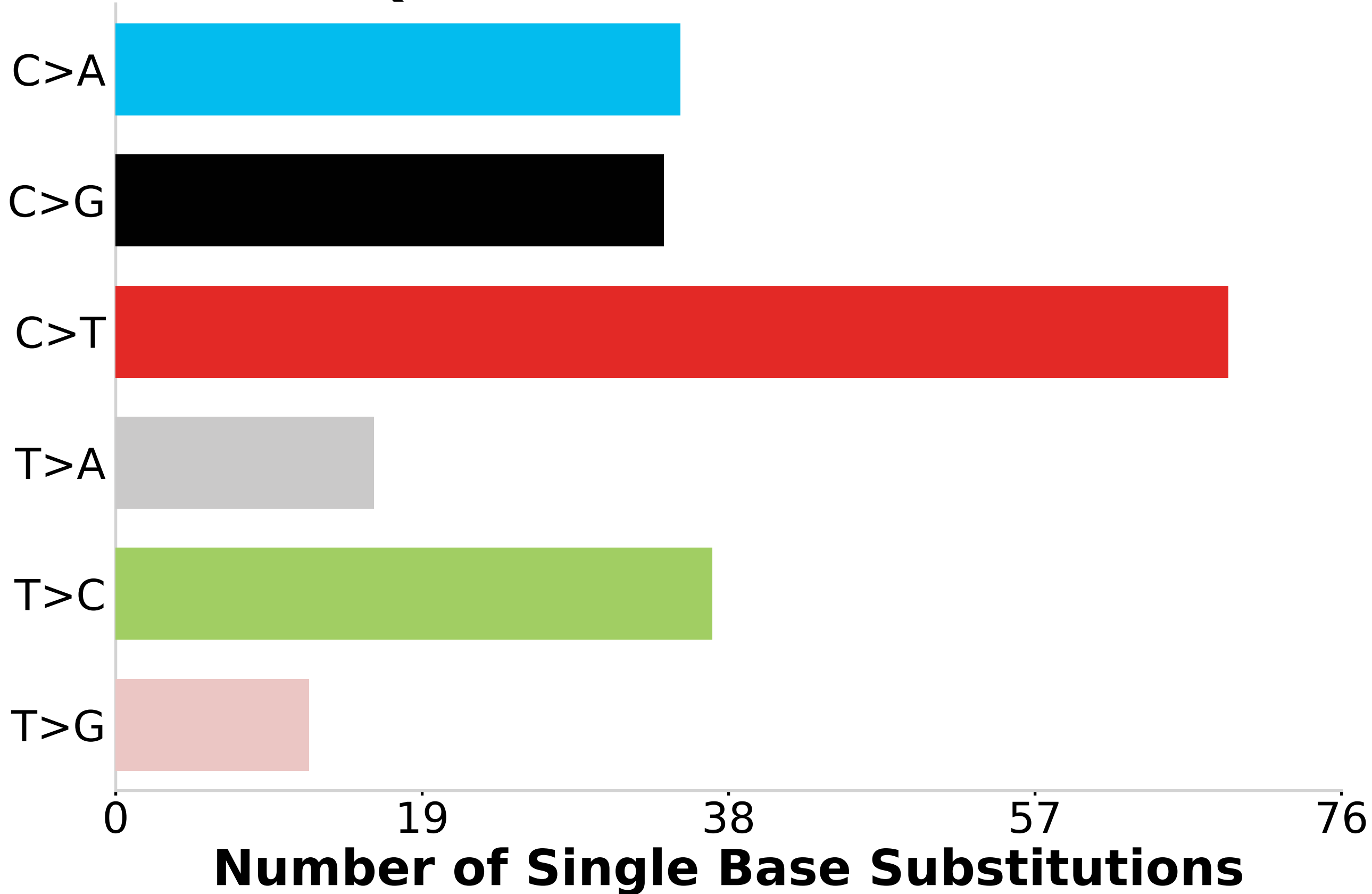
TCGA-K4-A83P-01A-11D-A34U-08: 239 sub



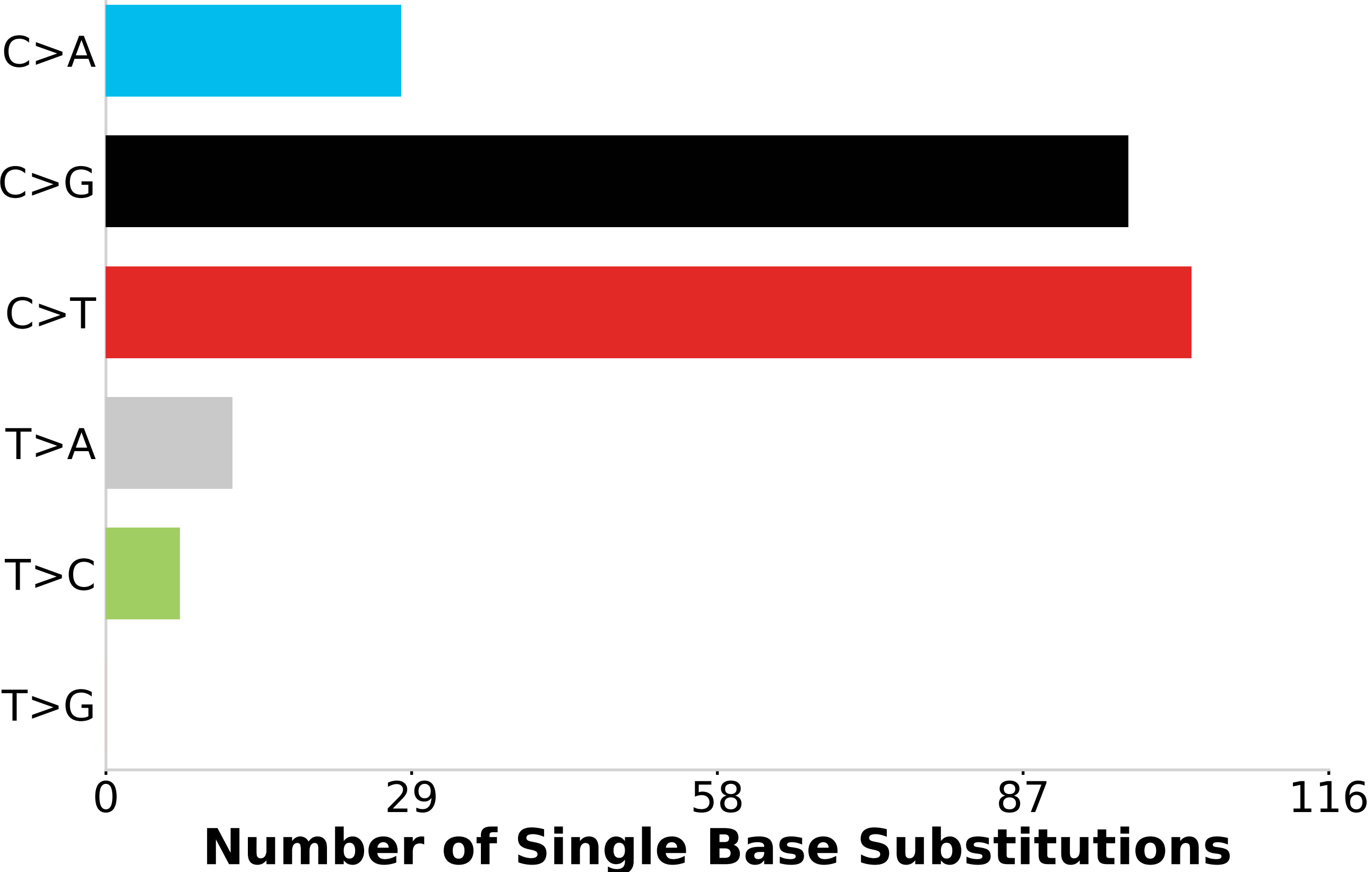
TCGA-K4-AAQO-01A-11D-A38G-08: 232 su



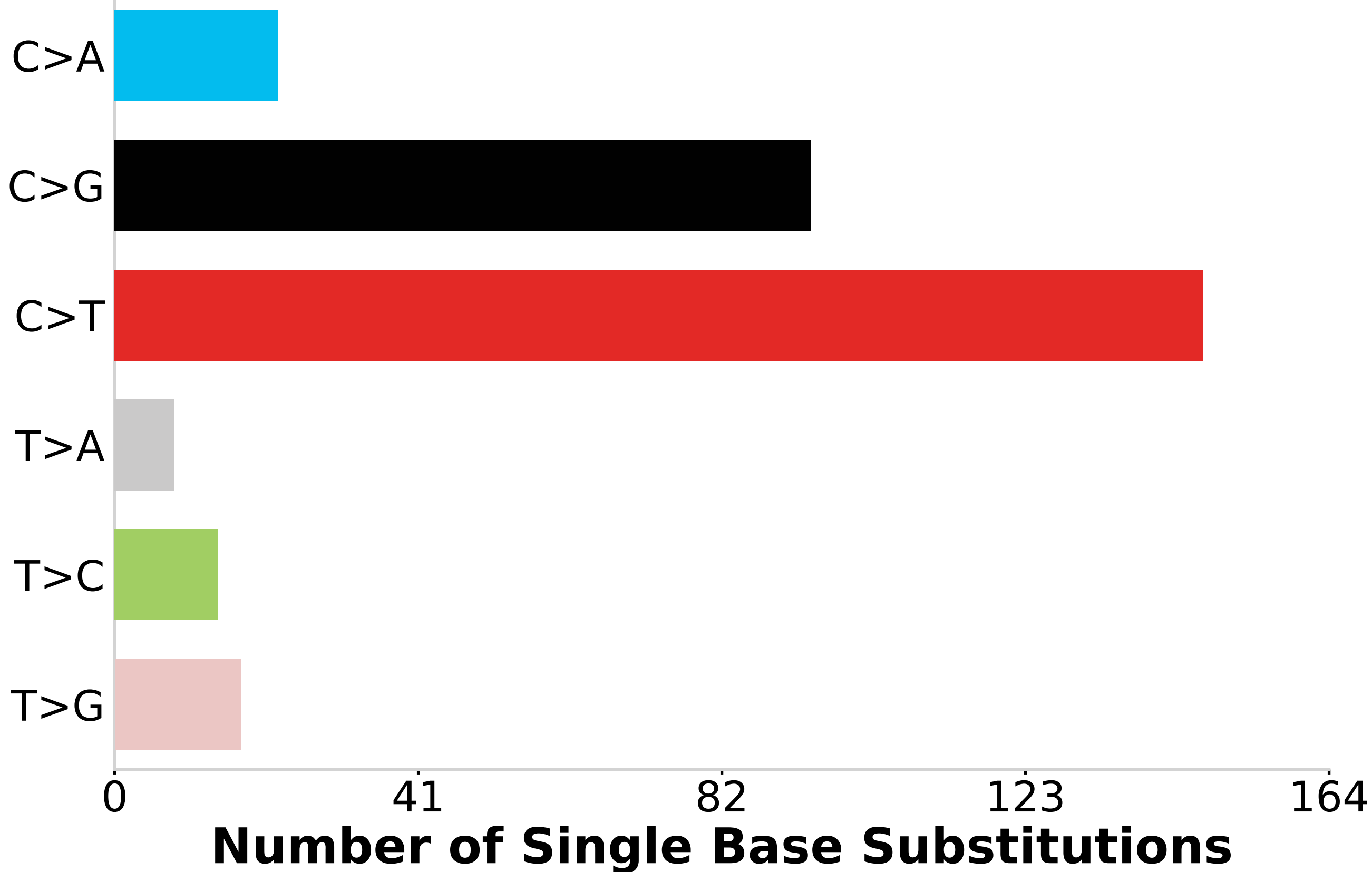
TCGA-KQ-A41N-01A-11D-A339-08: 203 sub



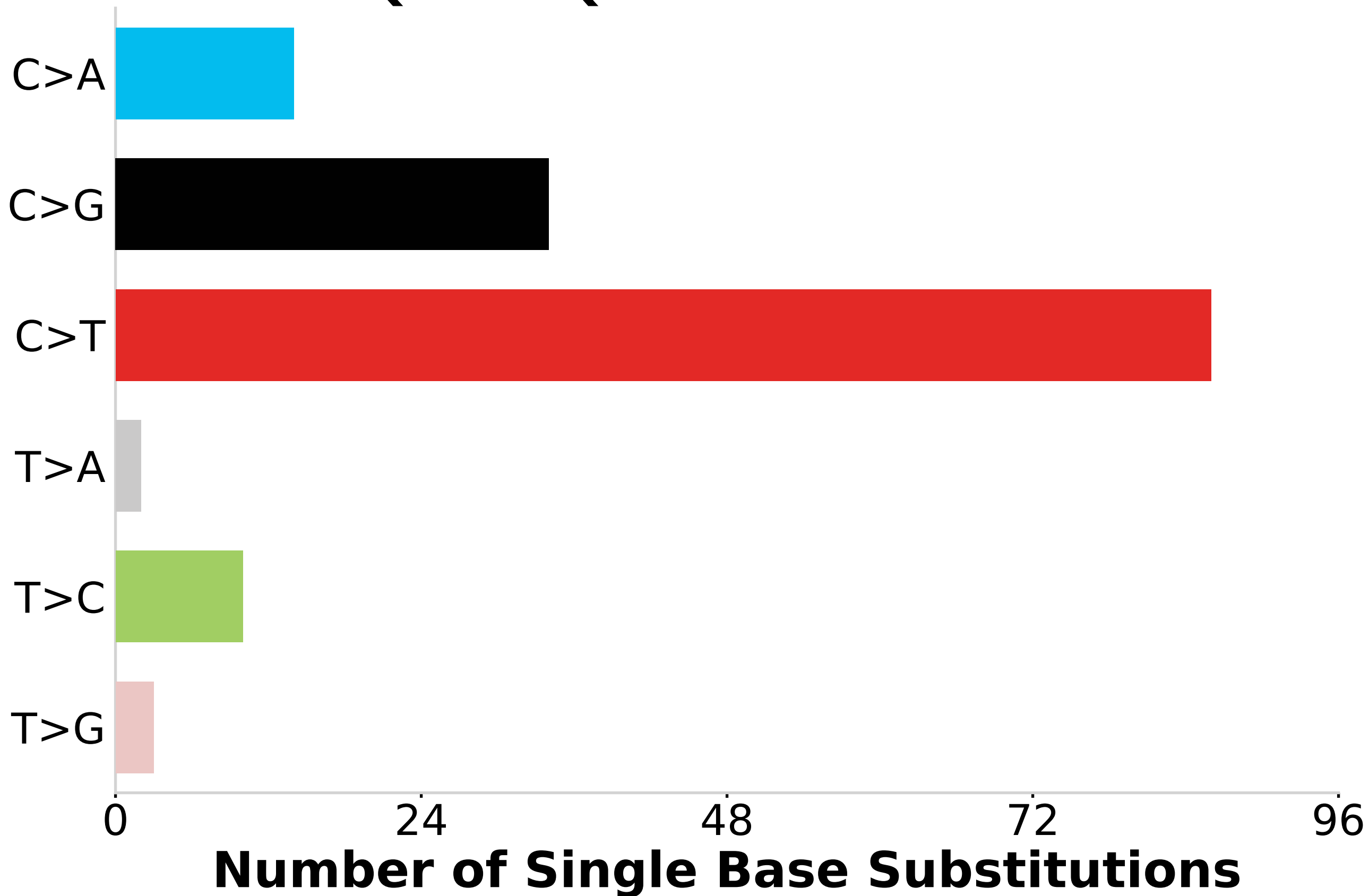
TCGA-KQ-A410-01A-12D-A34U-08: 247 substitutions



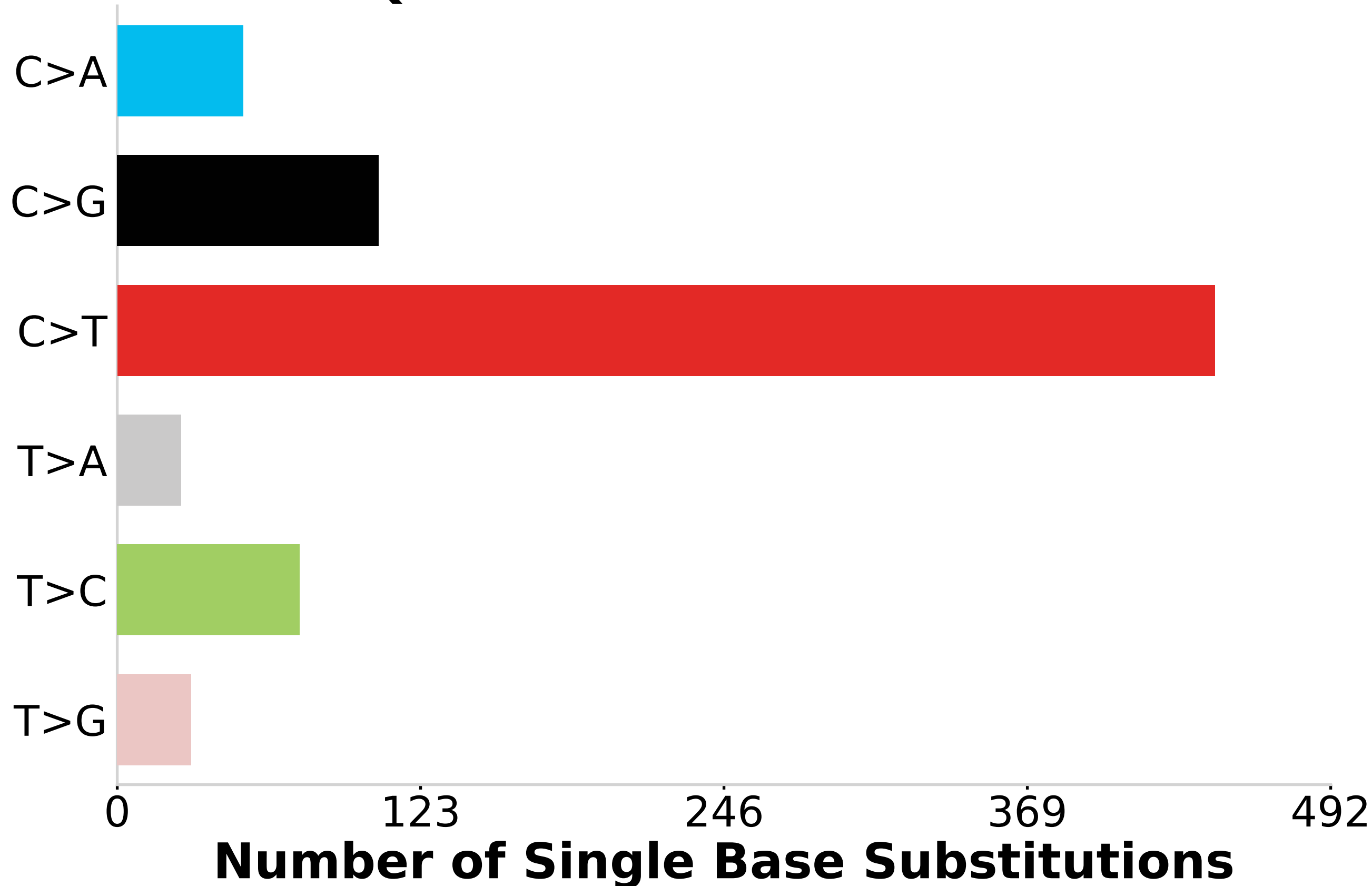
TCGA-KQ-A41P-01A-12D-A339-08: 302 sub



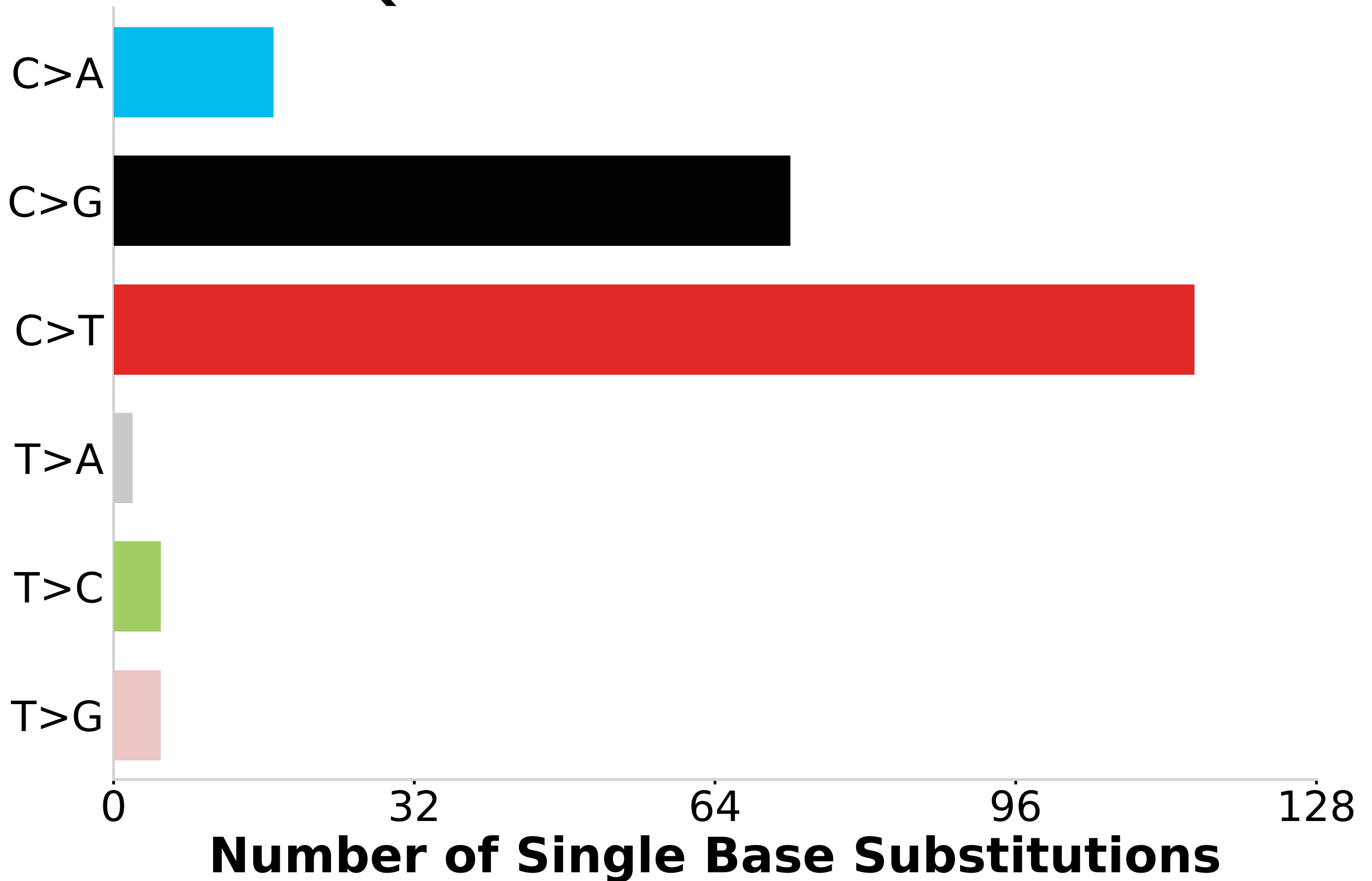
TCGA-KQ-A41Q-01A-11D-A339-08: 149 substitutions



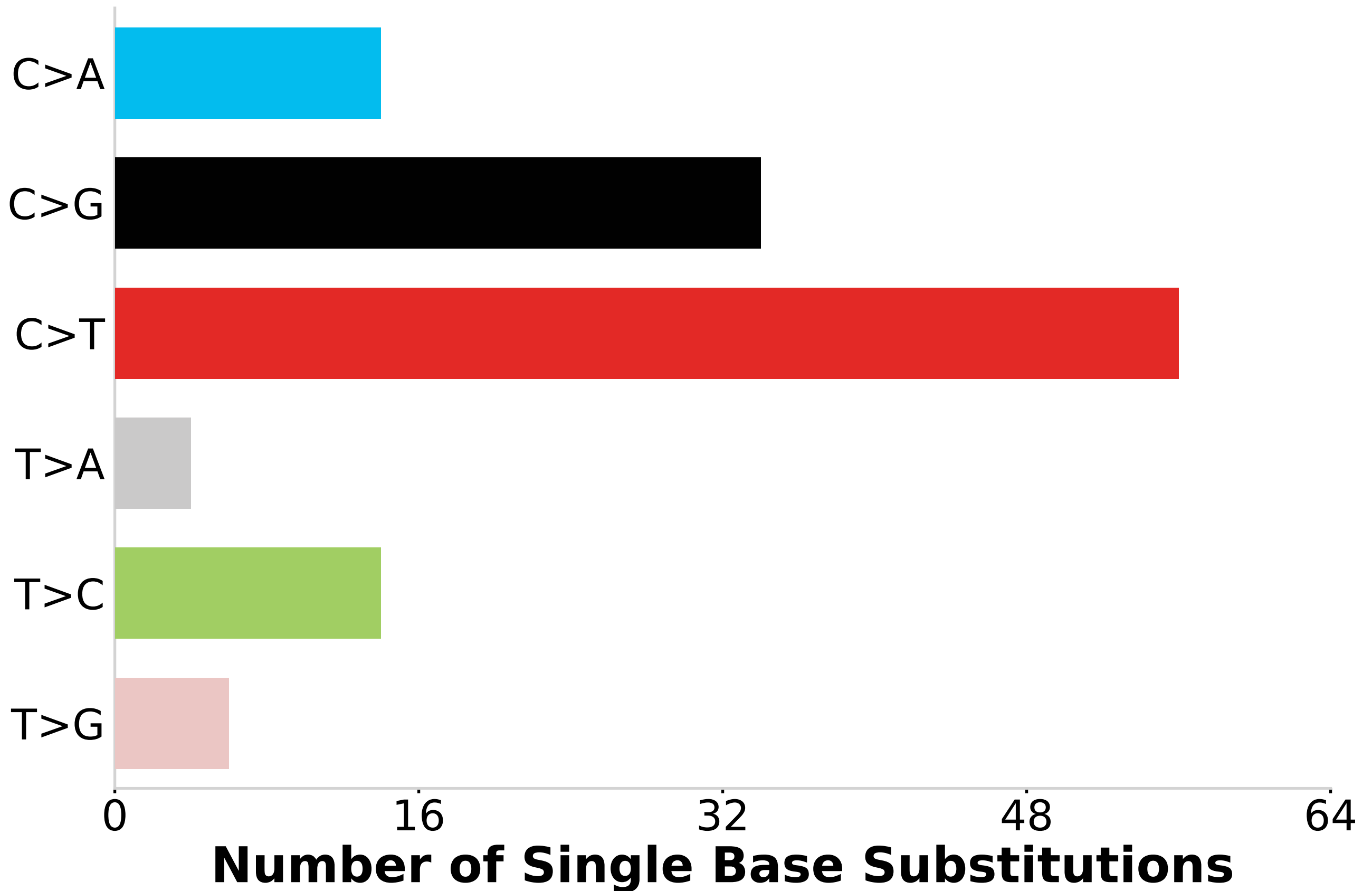
TCGA-KQ-A41R-01A-21D-A34U-08: 732 sub



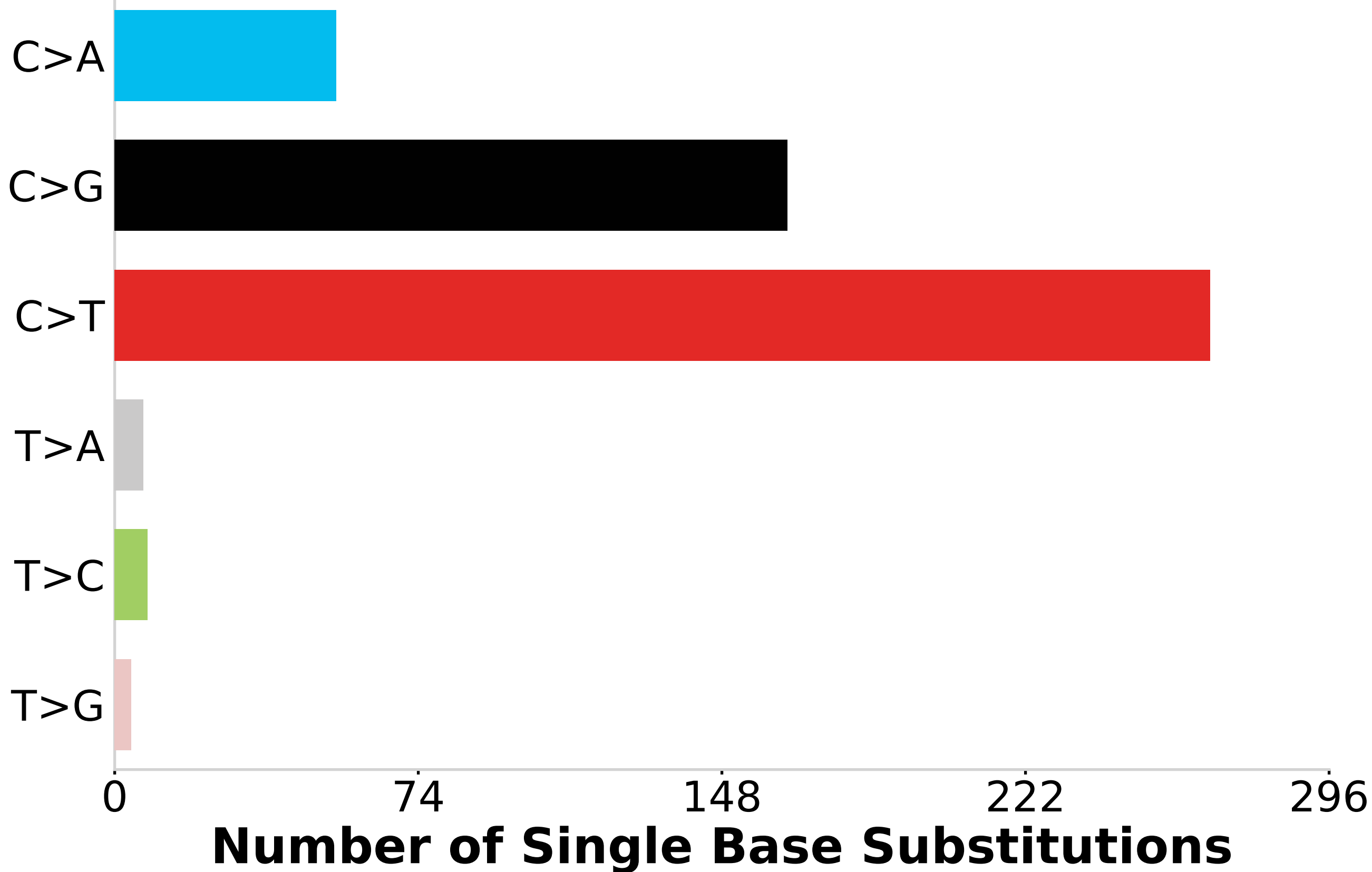
TCGA-KQ-A41S-01A-12D-A339-08: 216 sub



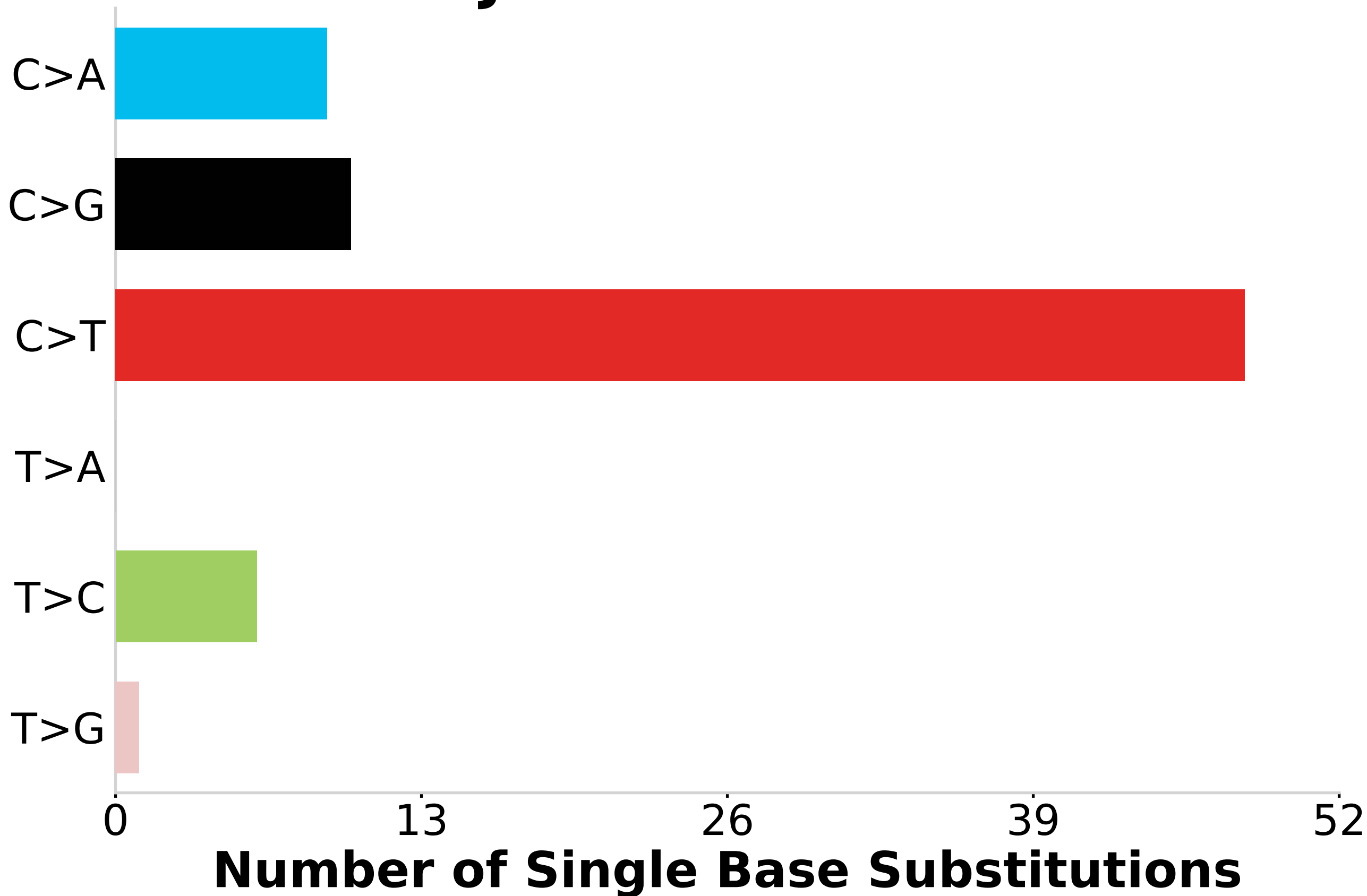
TCGA-LC-A66R-01A-41D-A30E-08: 128 sub



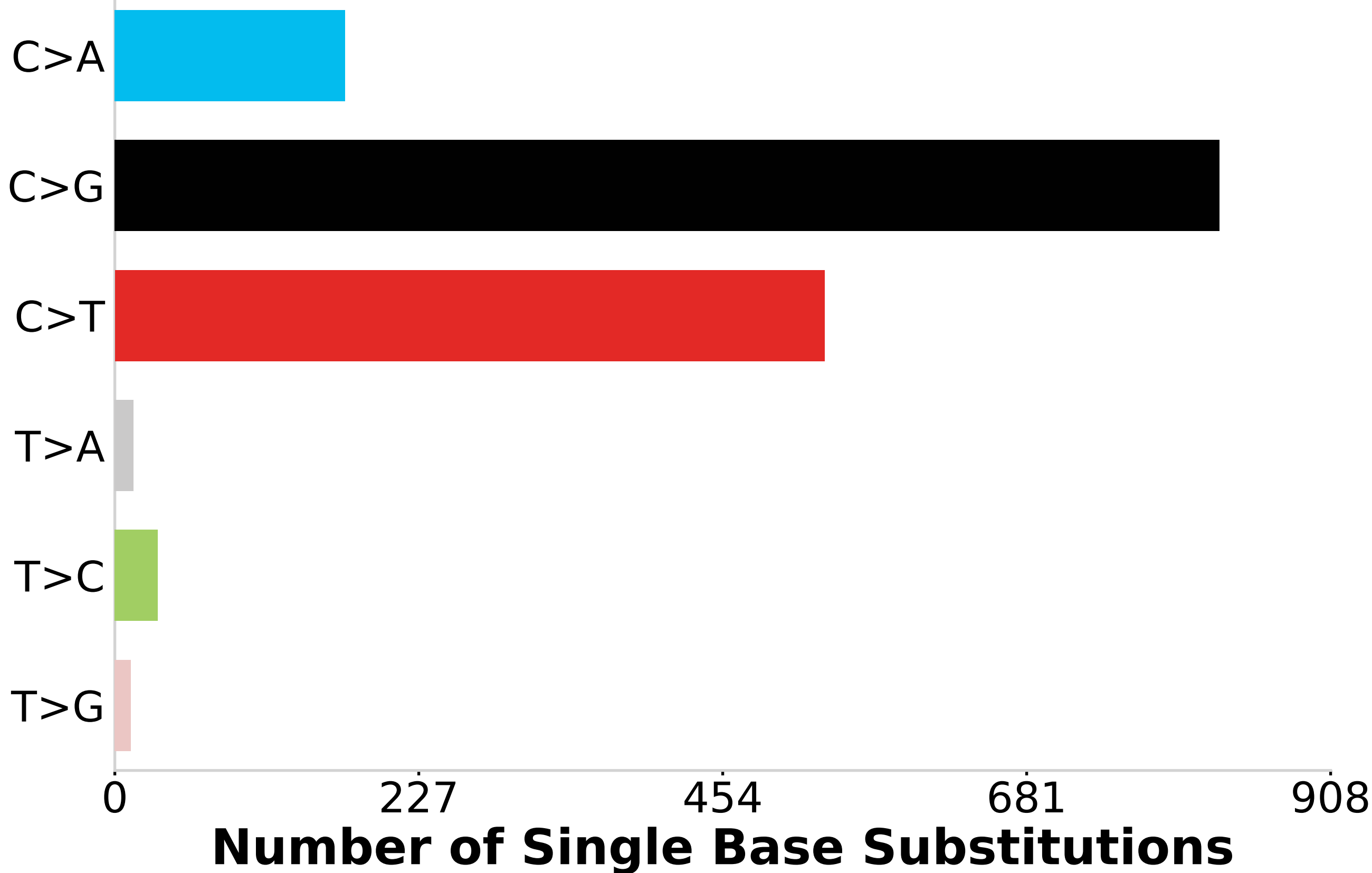
TCGA-LT-A5Z6-01A-11D-A289-08: 504 subs



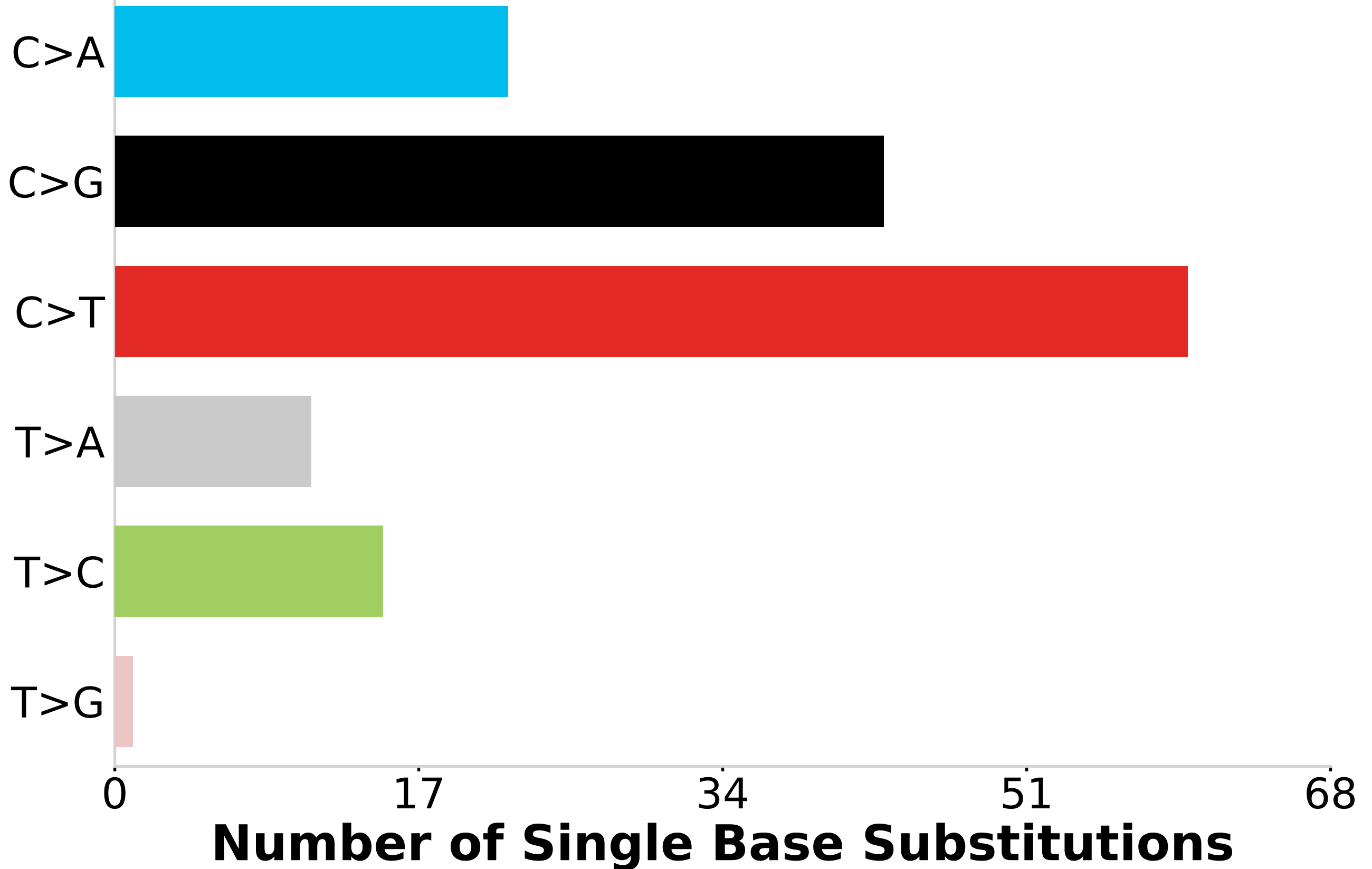
TCGA-LT-A8JT-01A-11D-A364-08: 74 subs



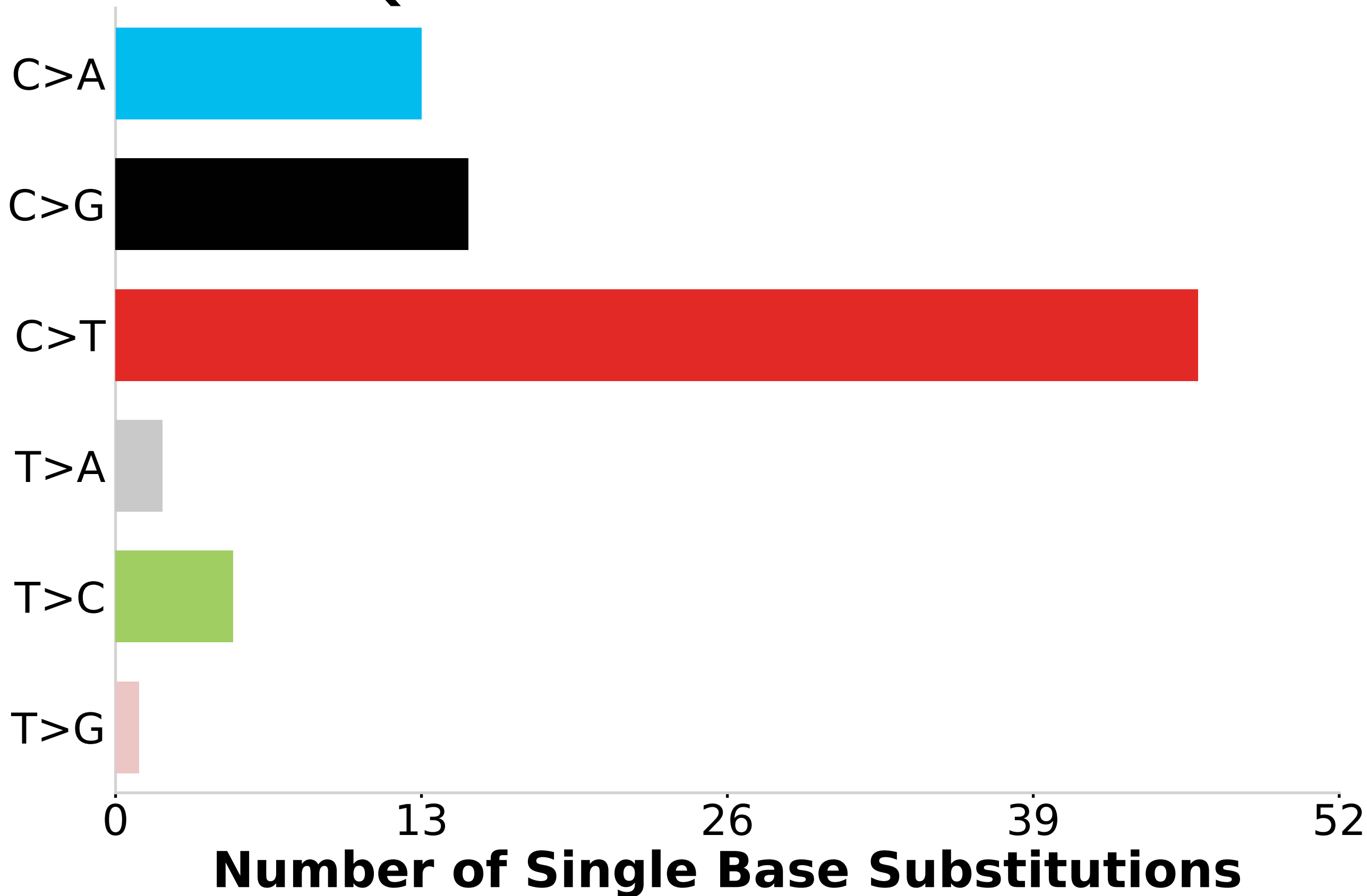
TCGA-MV-A51V-01A-11D-A26M-08: 1,585 s



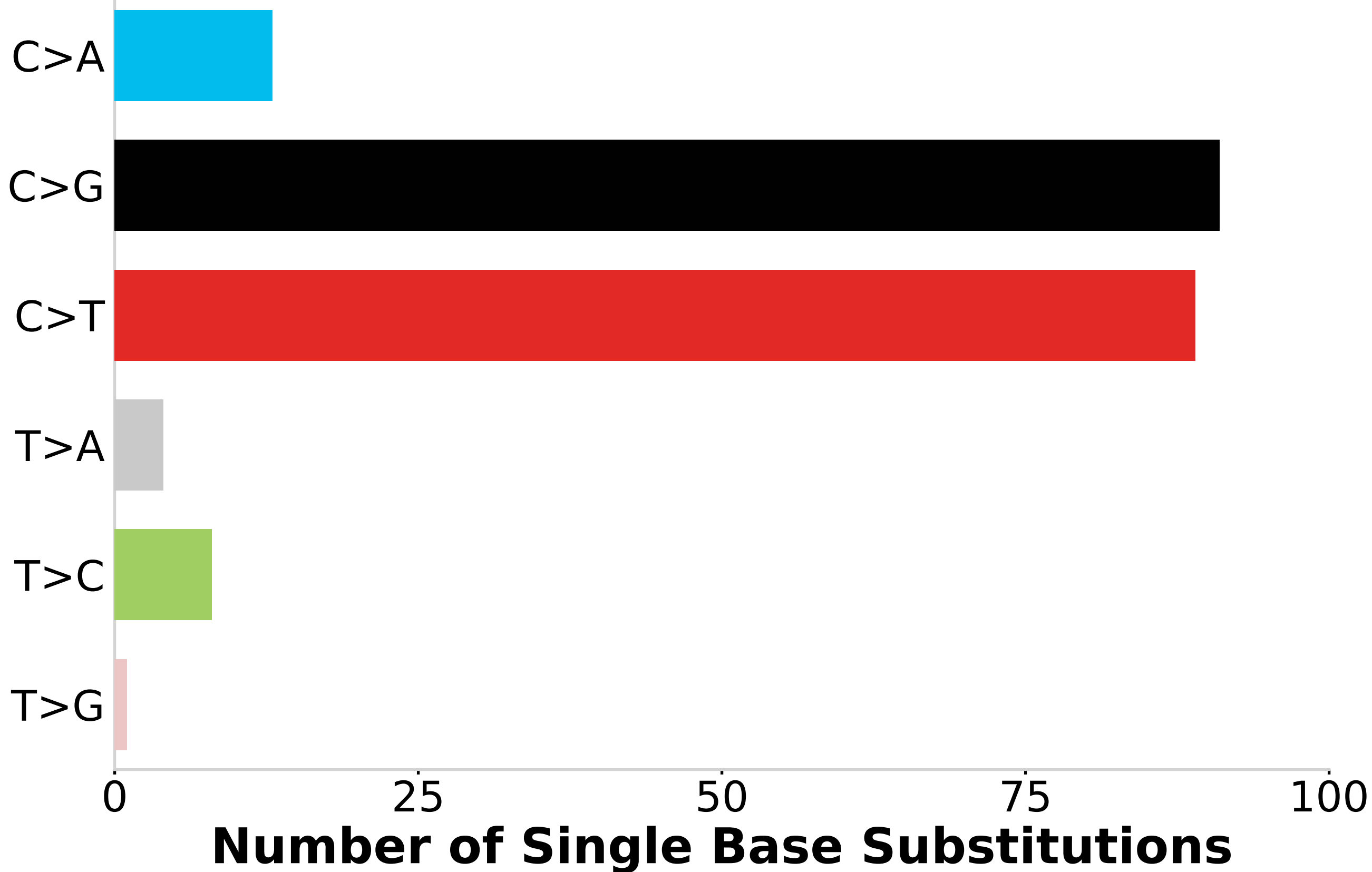
TCGA-PQ-A6FI-01A-11D-A31L-08: 152 subs



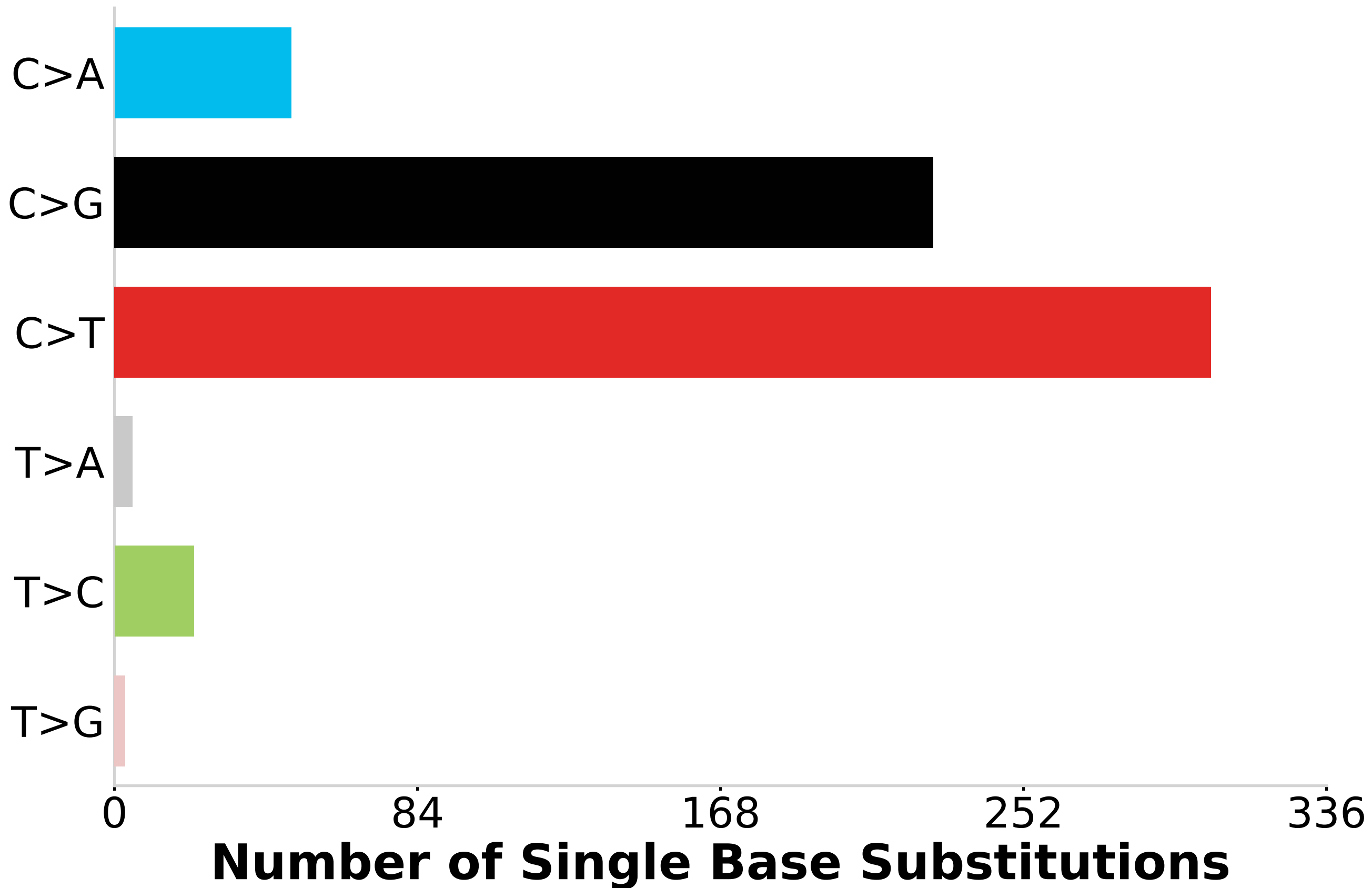
TCGA-PQ-A6FN-01A-11D-A31L-08: 82 subs



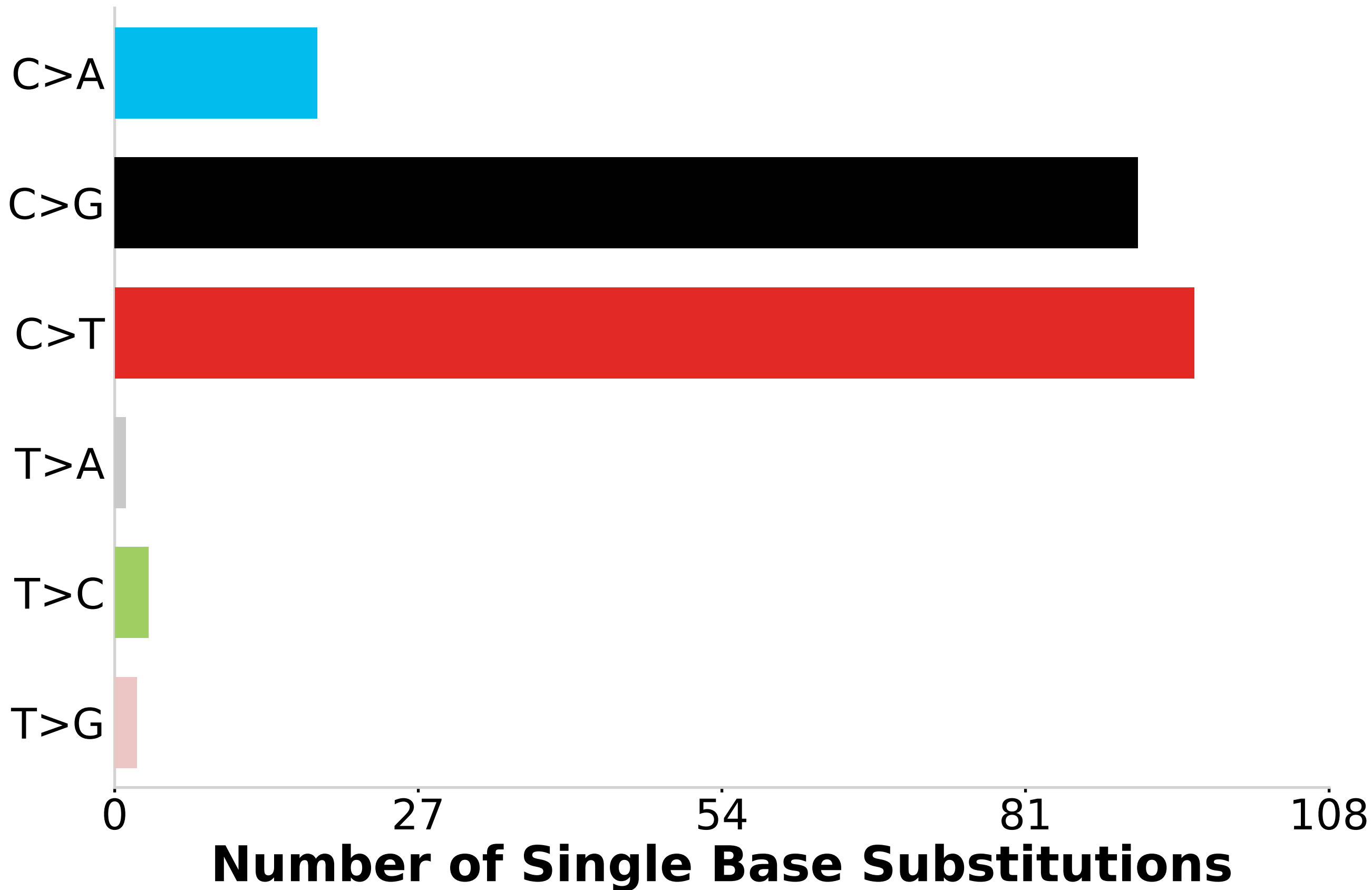
TCGA-R3-A69X-01A-22D-A30E-08: 206 sub



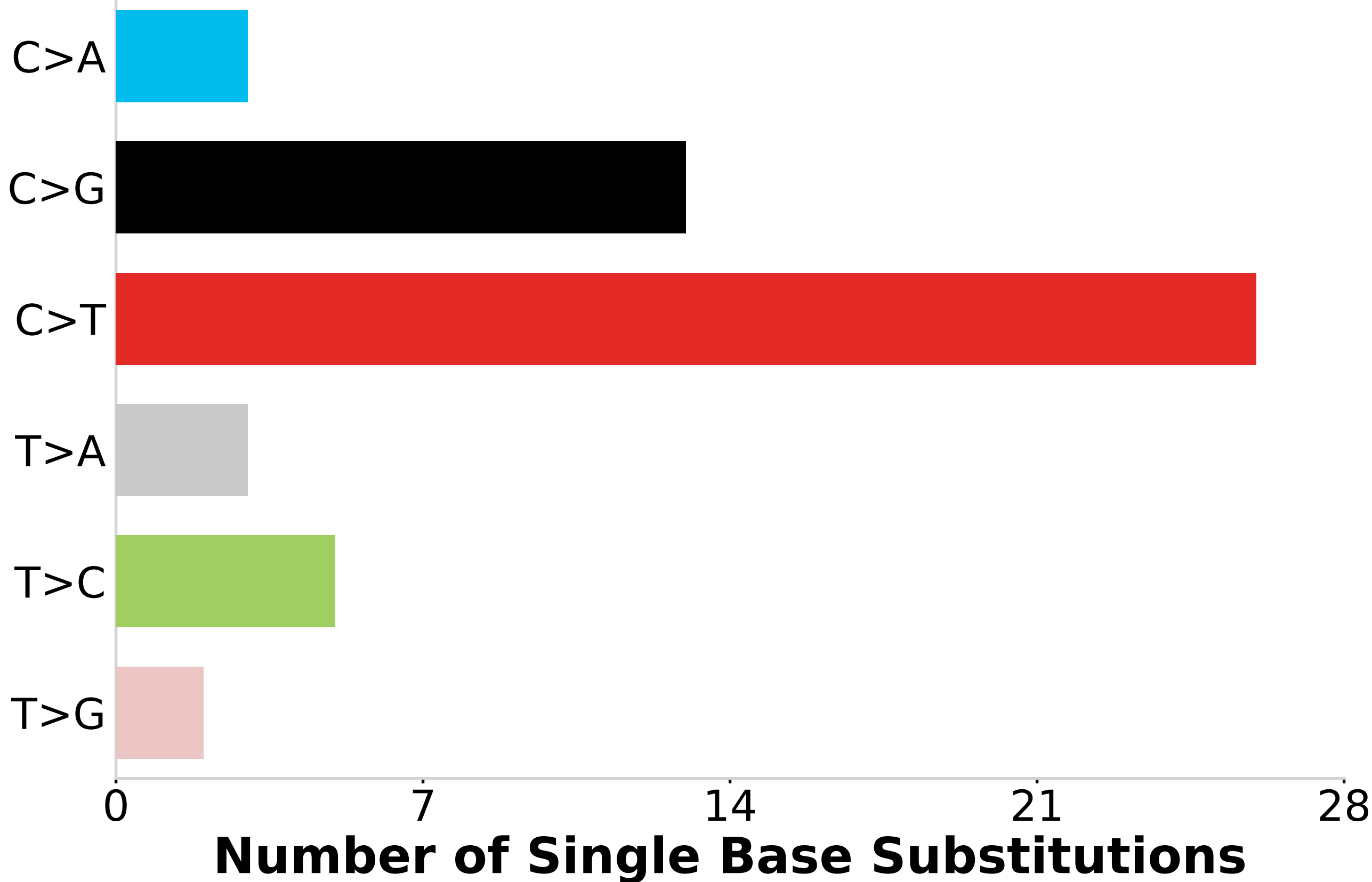
TCGA-S5-A6DX-01A-11D-A31L-08: 610 sub



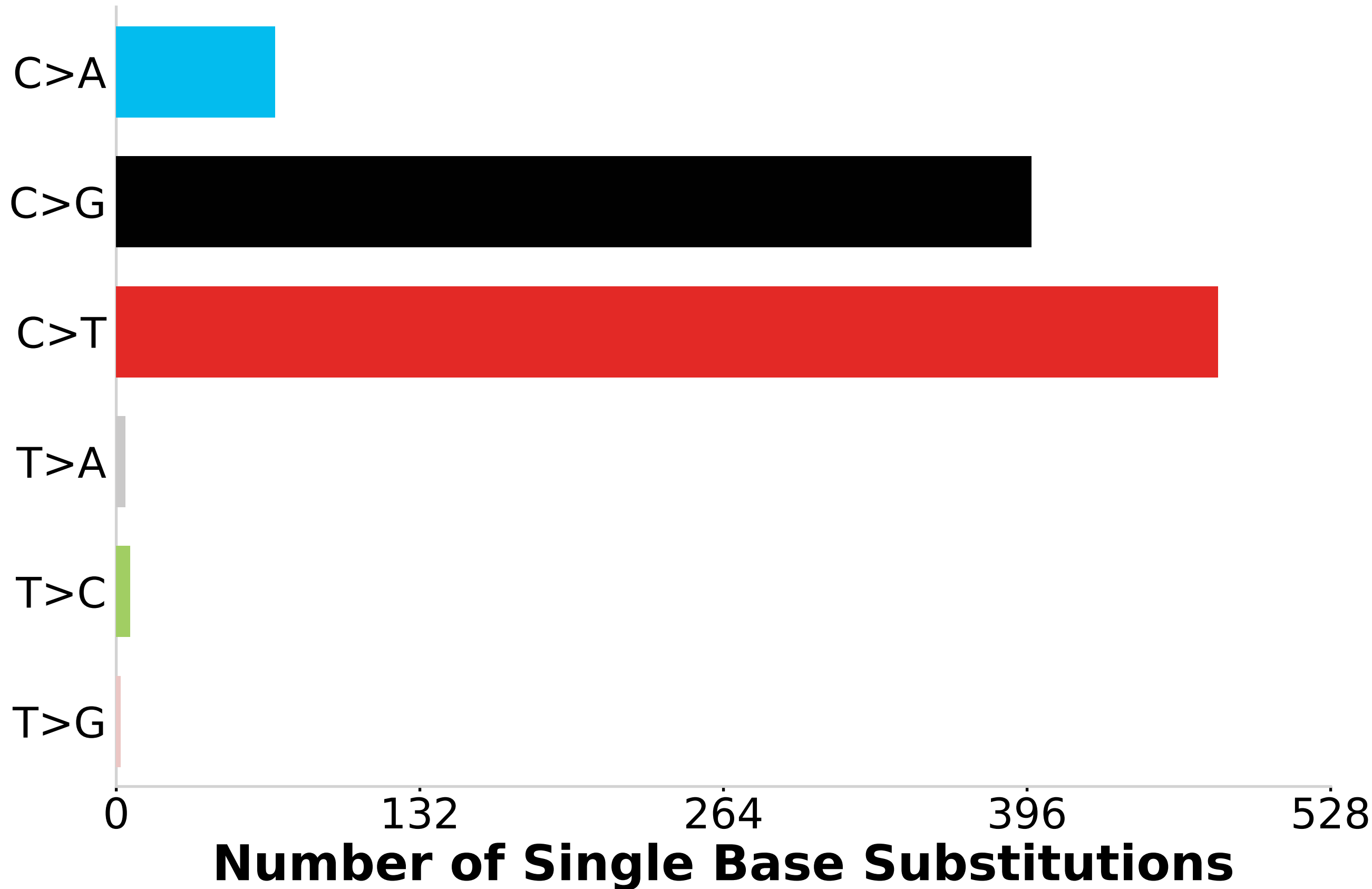
TCGA-S5-AA26-01A-11D-A38G-08: 211 sub



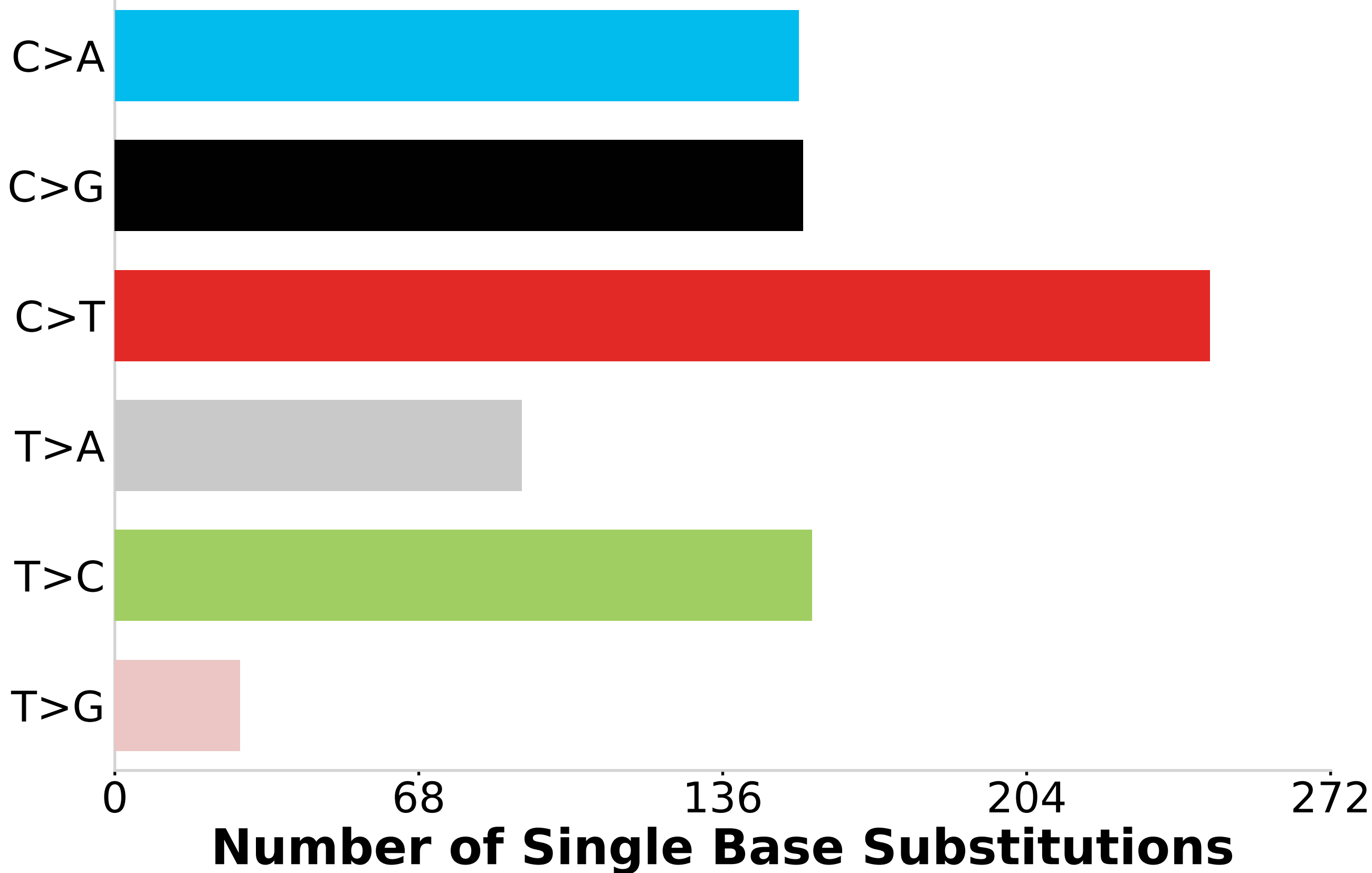
TCGA-SY-A9G0-01A-12D-A38G-08: 52 subs



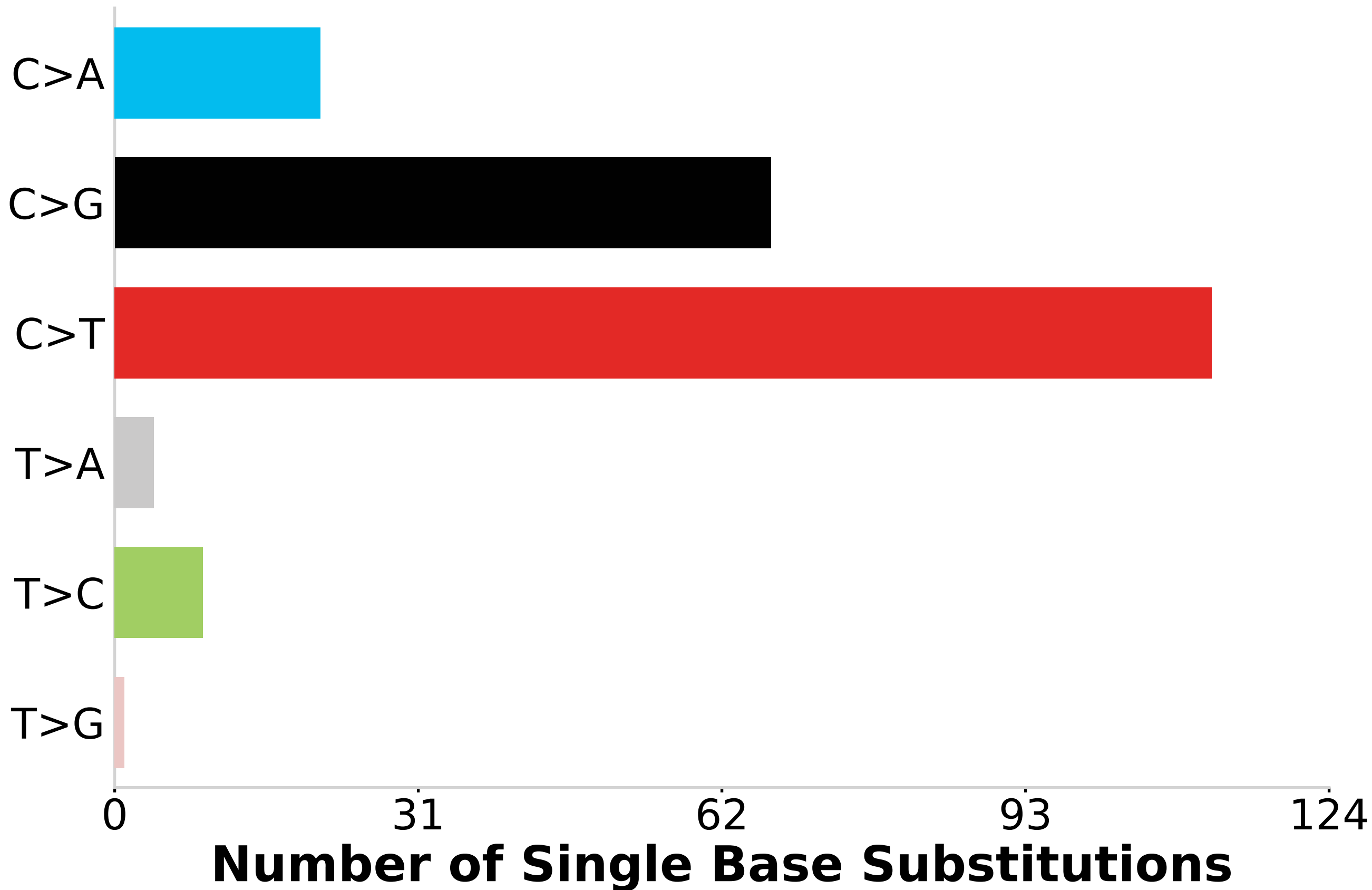
TCGA-SY-A9G5-01A-11D-A38G-08: 958 sub



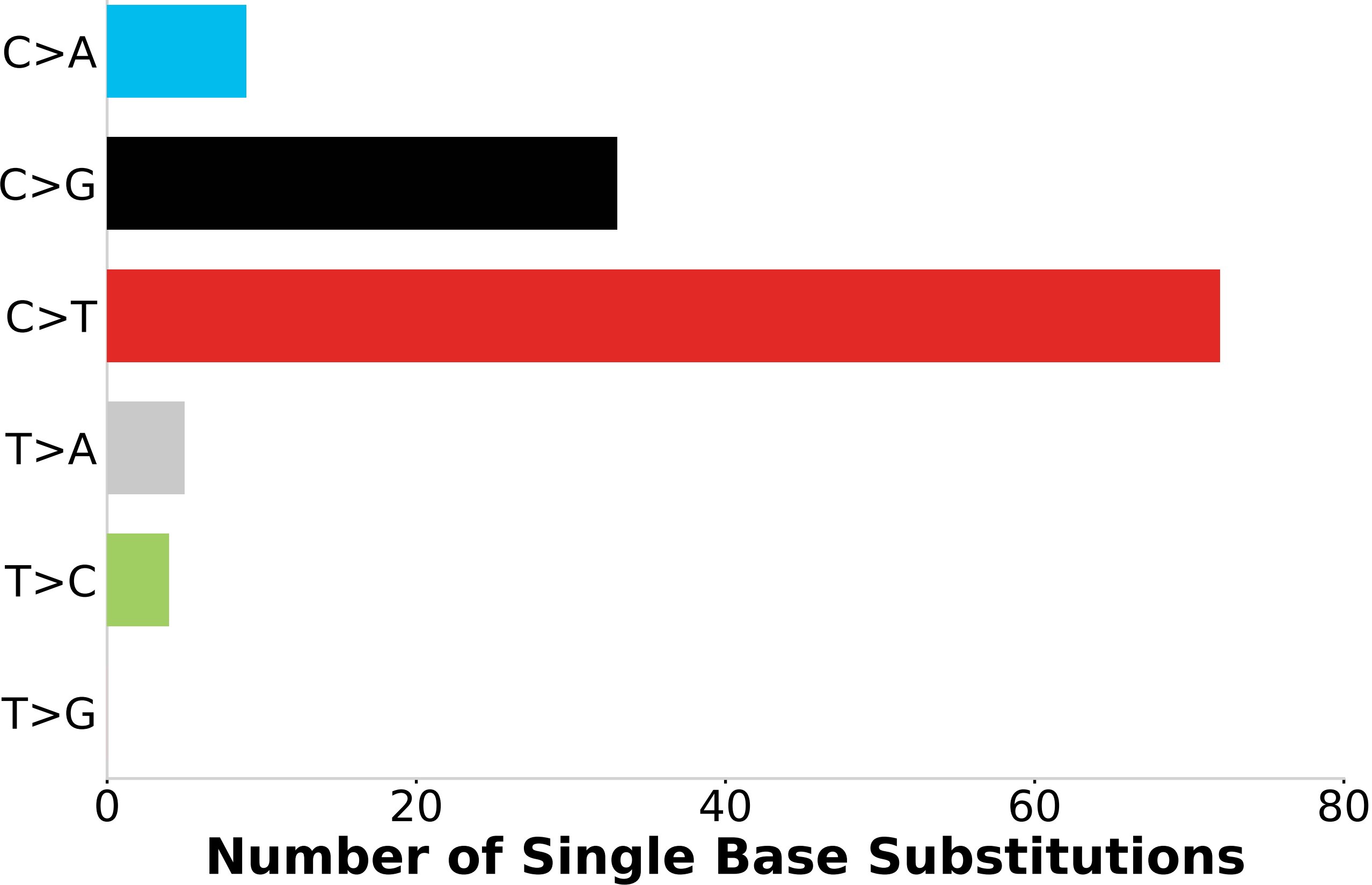
TCGA-UY-A78K-01A-11D-A339-08: 827 sub



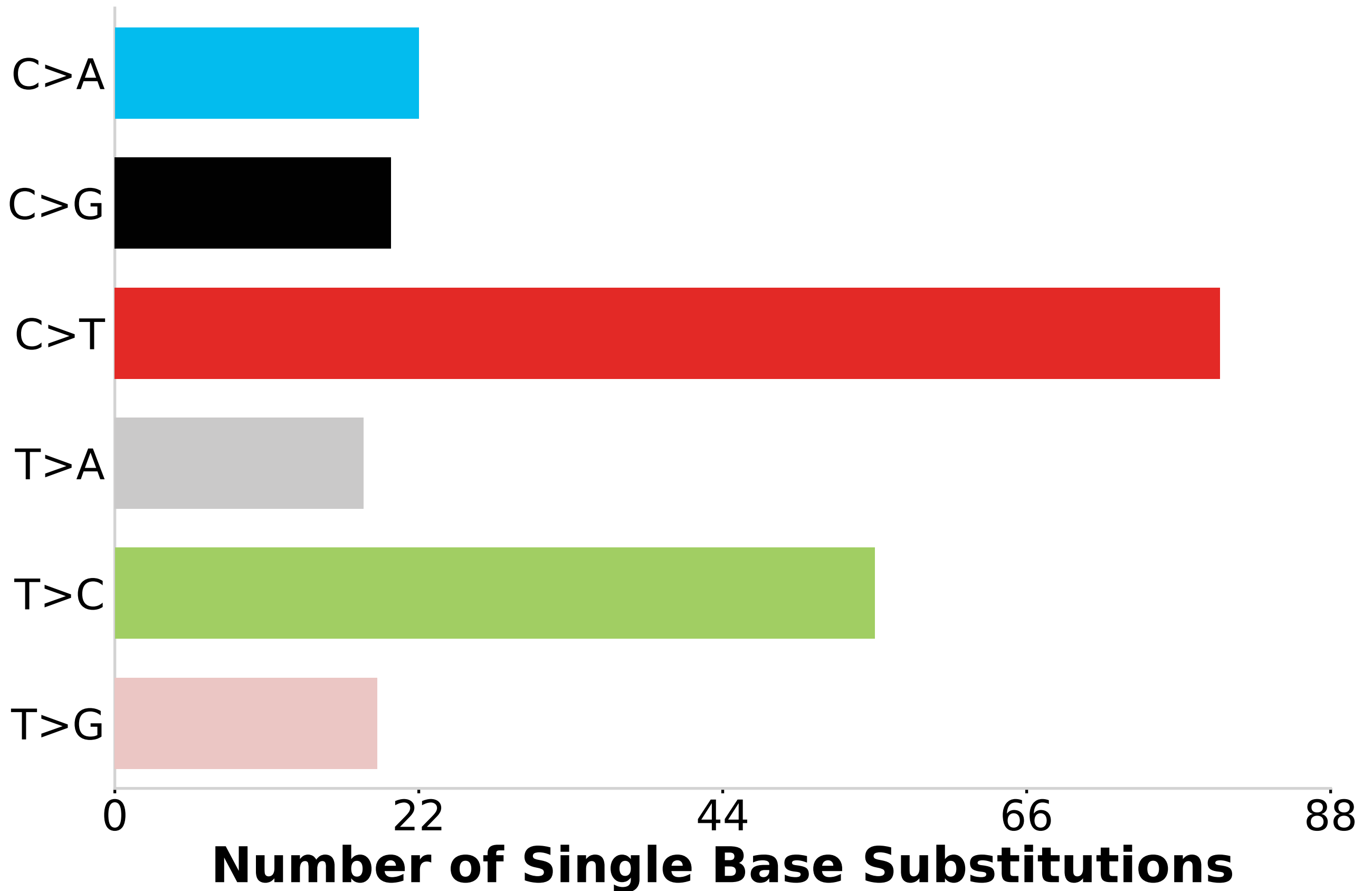
TCGA-UY-A78L-01A-12D-A339-08: 214 sub



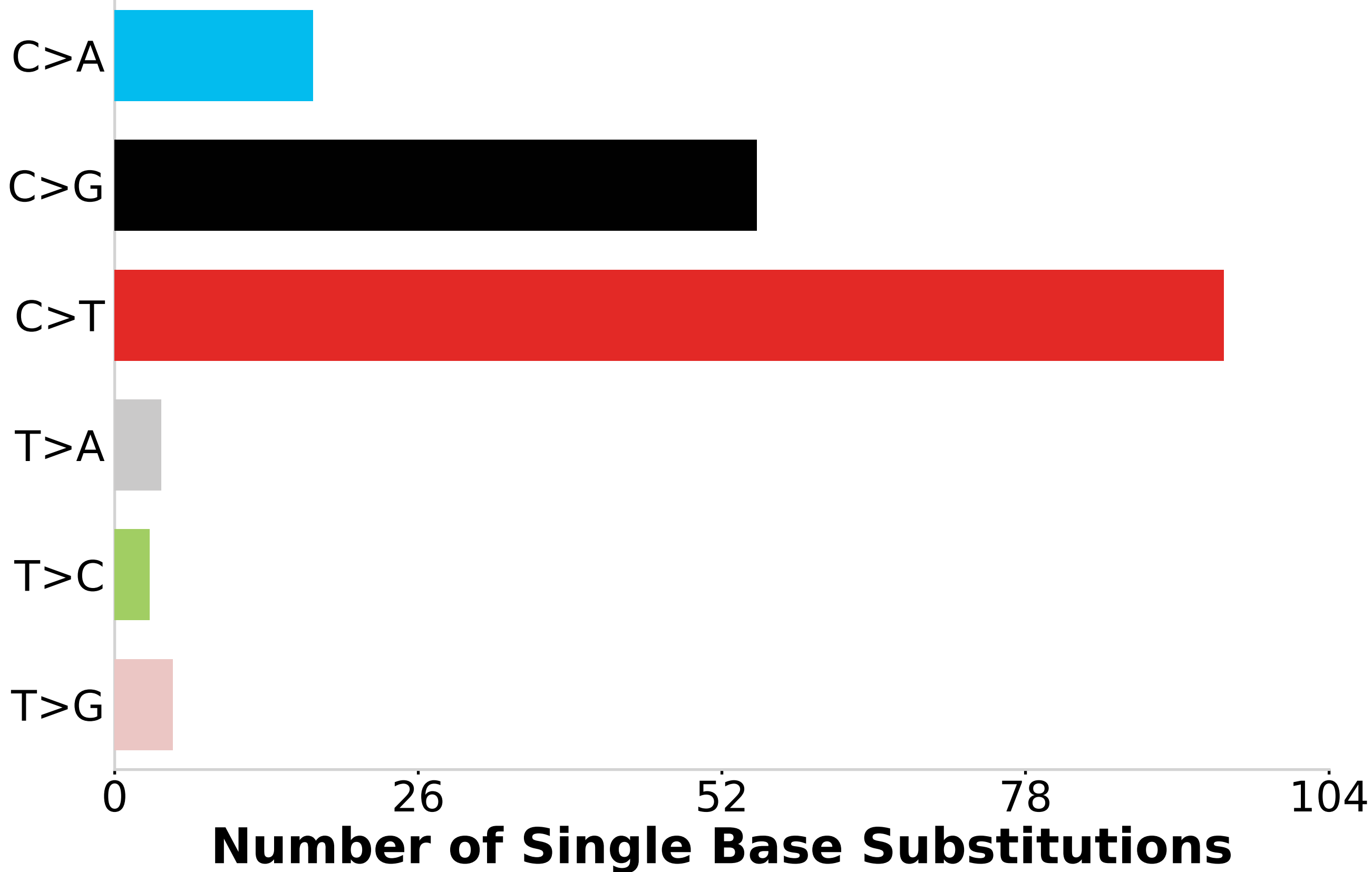
TCGA-UY-A78M-01A-21D-A34U-08: 123 substitutions



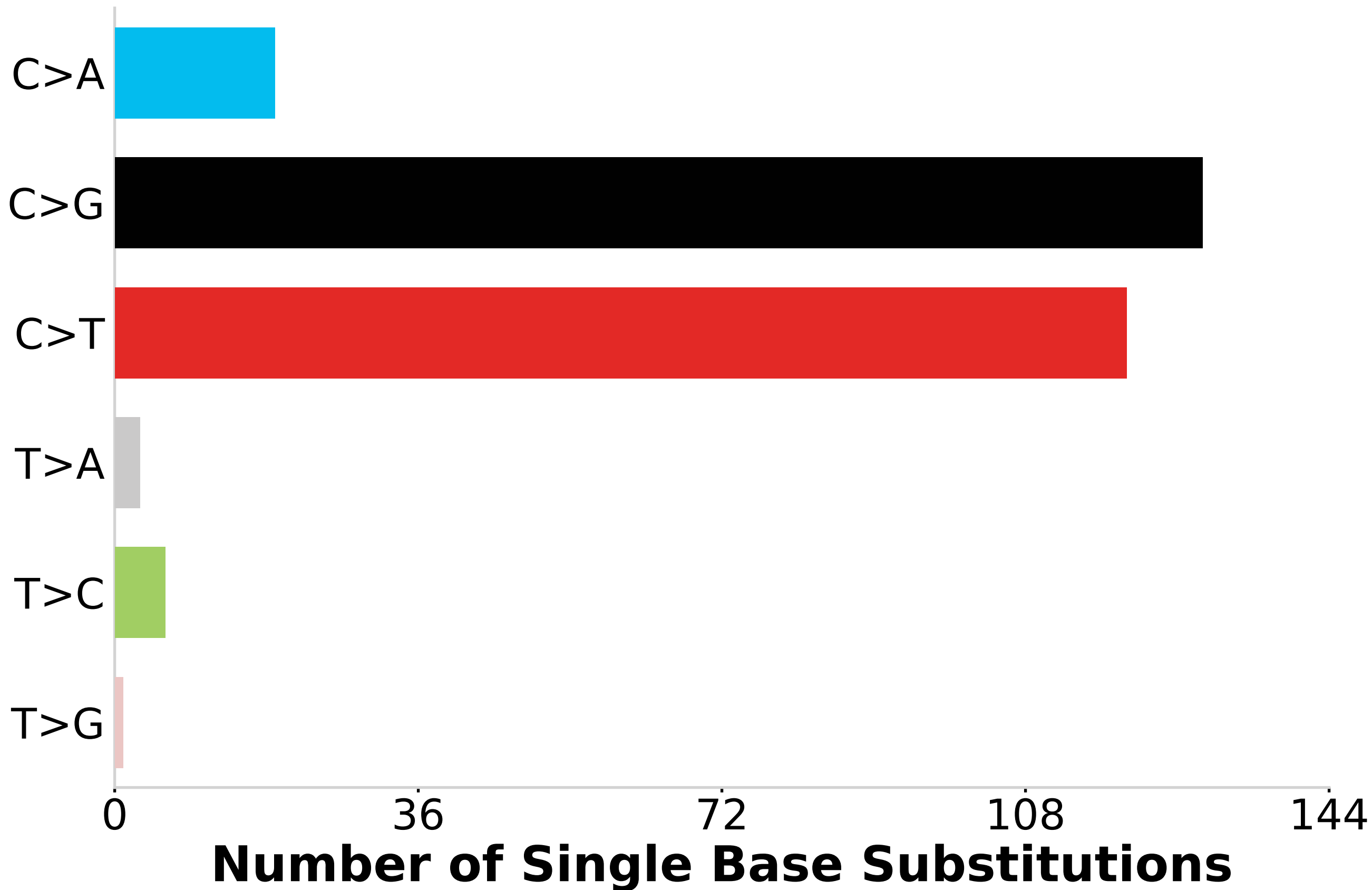
TCGA-UY-A78N-01A-12D-A339-08: 214 sub



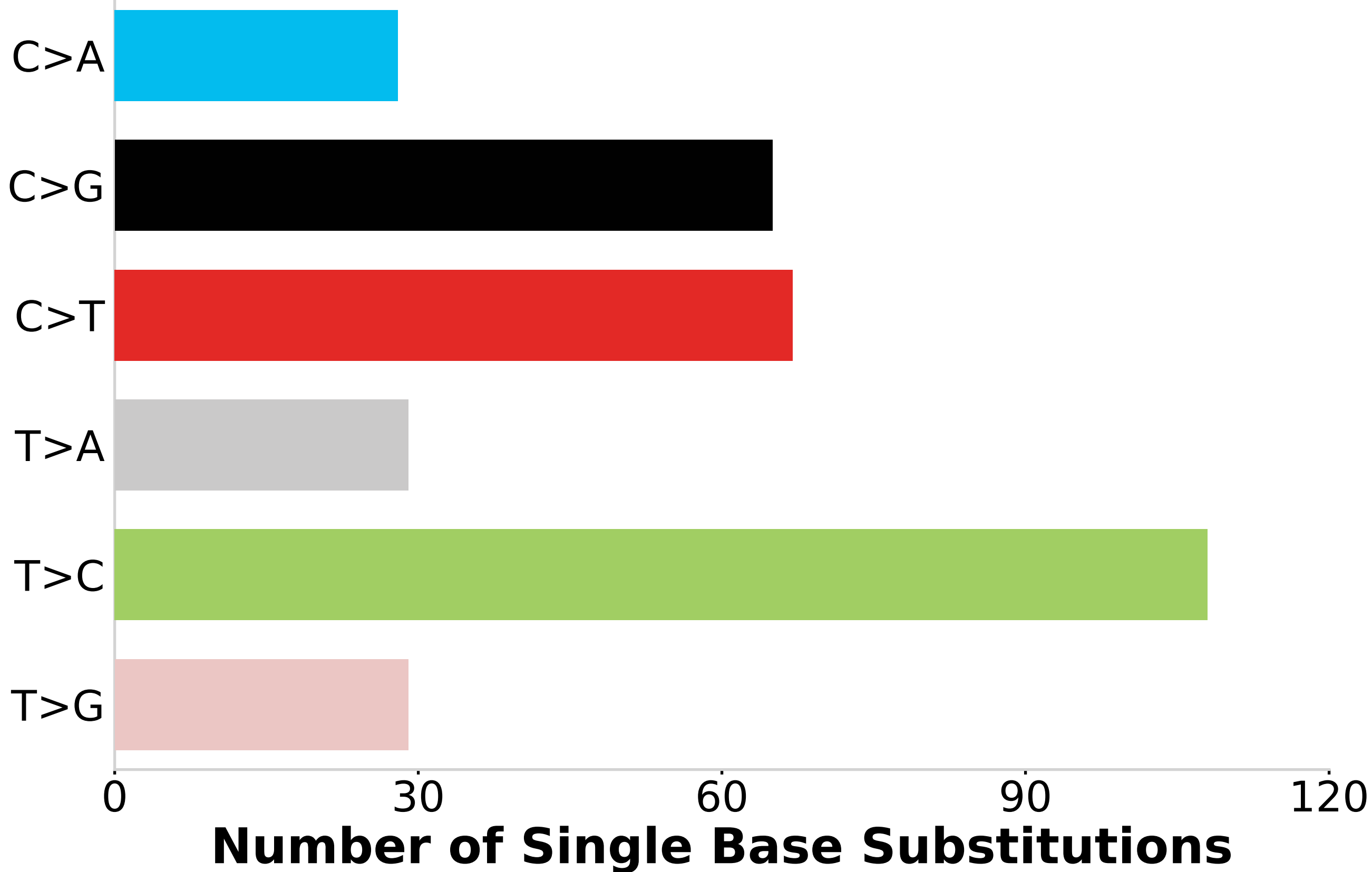
TCGA-UY-A780-01A-12D-A339-08: 179 sub



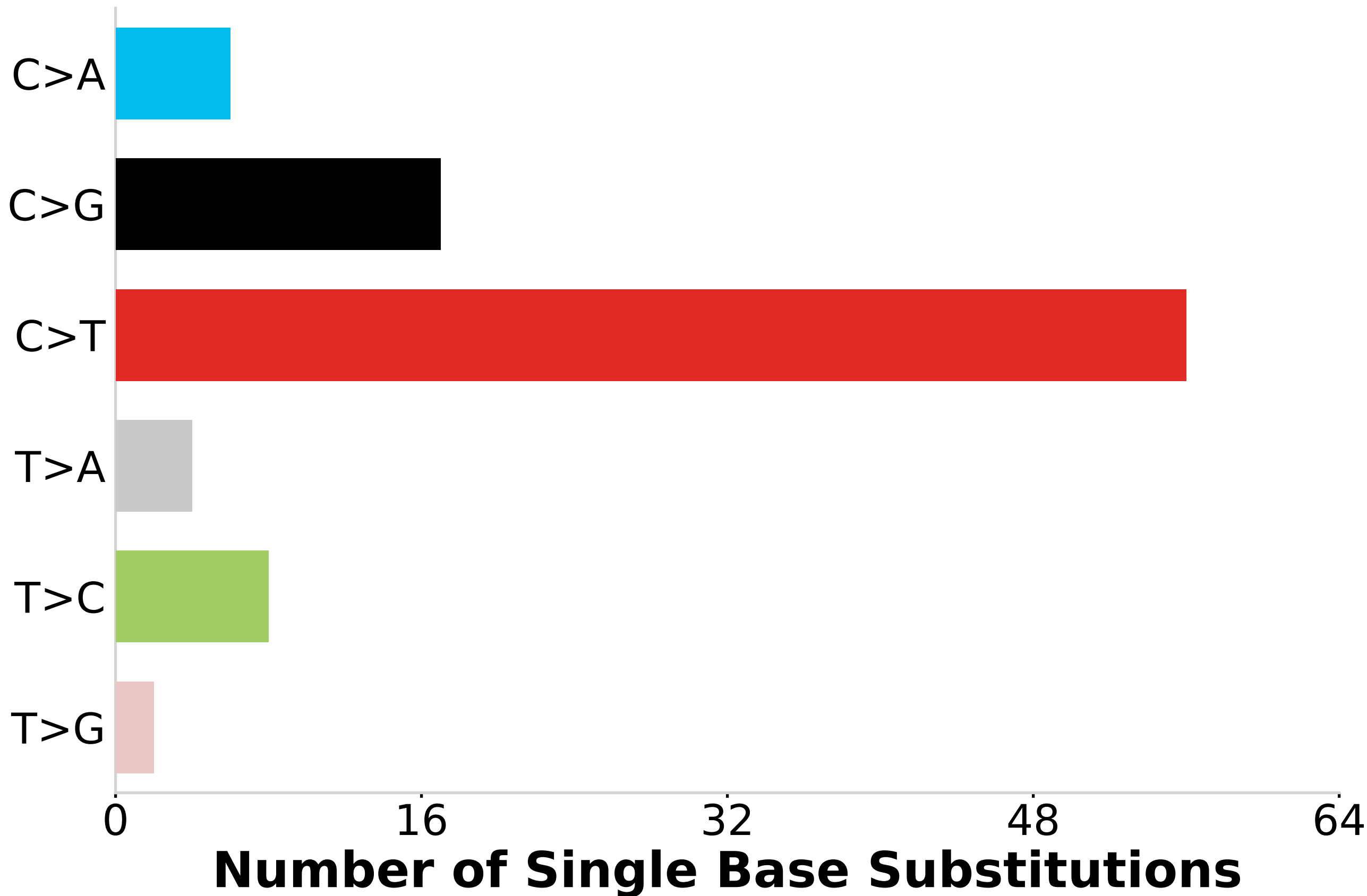
TCGA-UY-A78P-01A-12D-A364-08: 278 sub



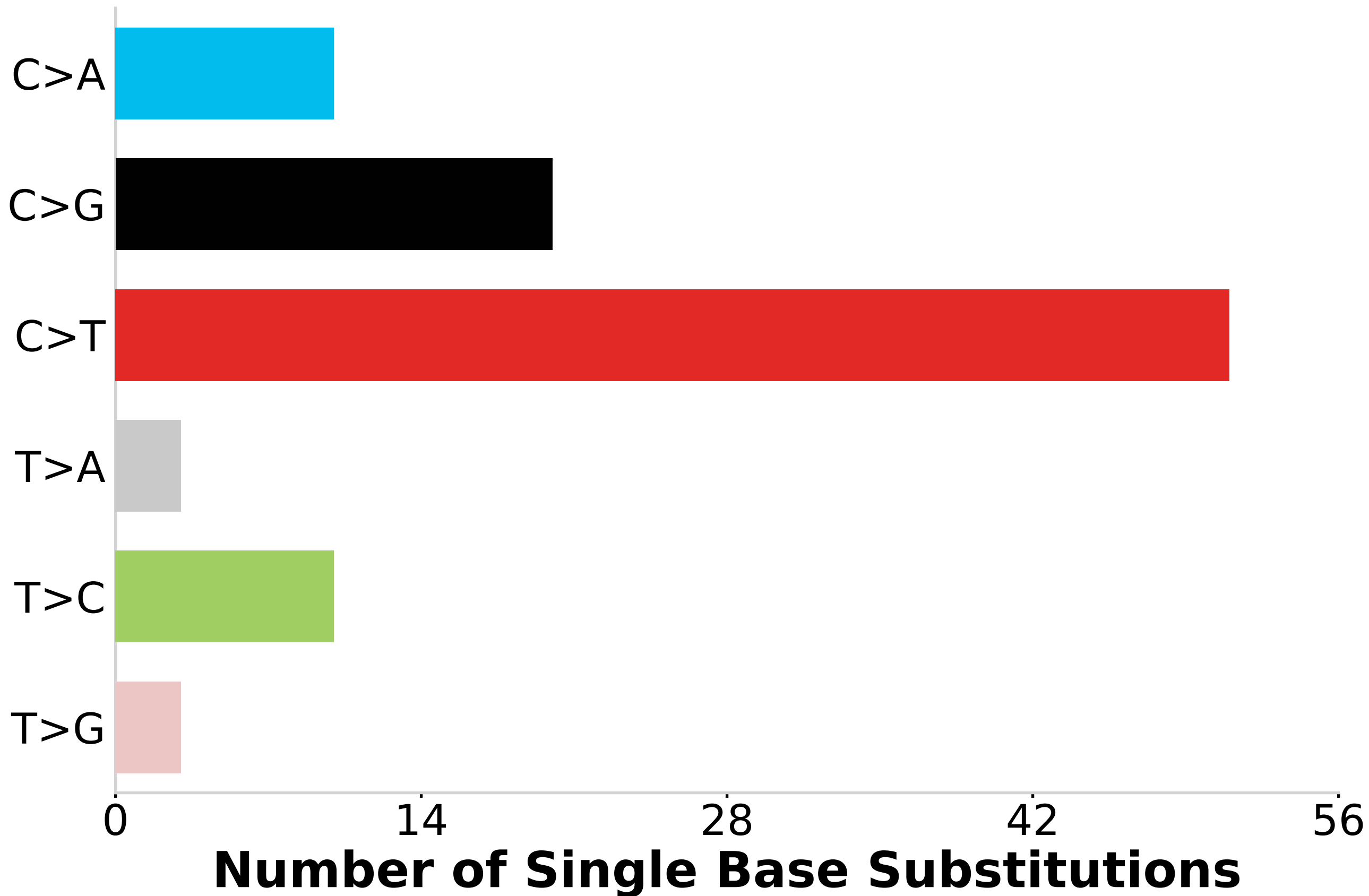
TCGA-UY-A80B-01A-12D-A42E-08: 326 sub



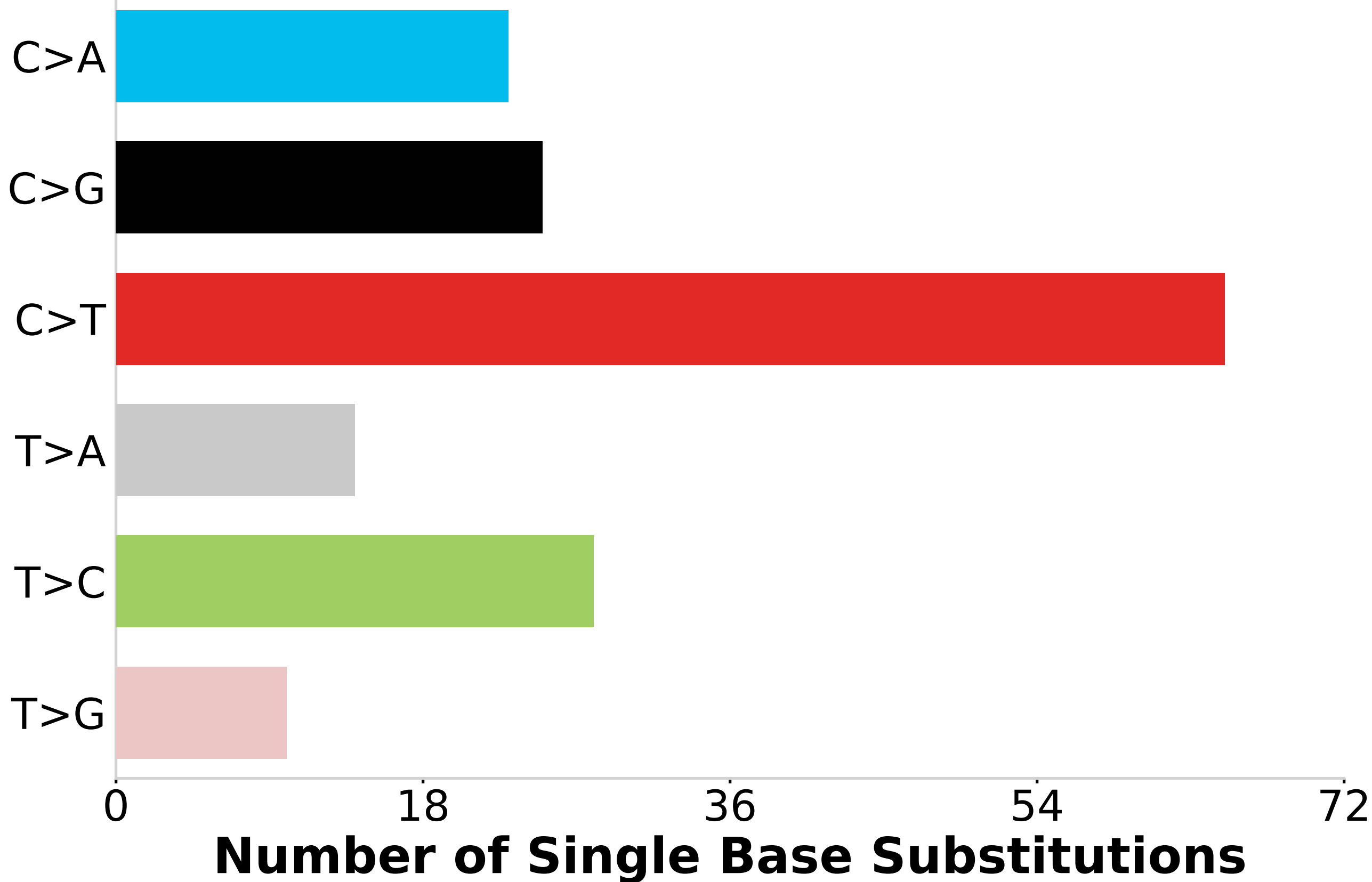
TCGA-UY-A80C-01A-11D-A364-08: 93 subs



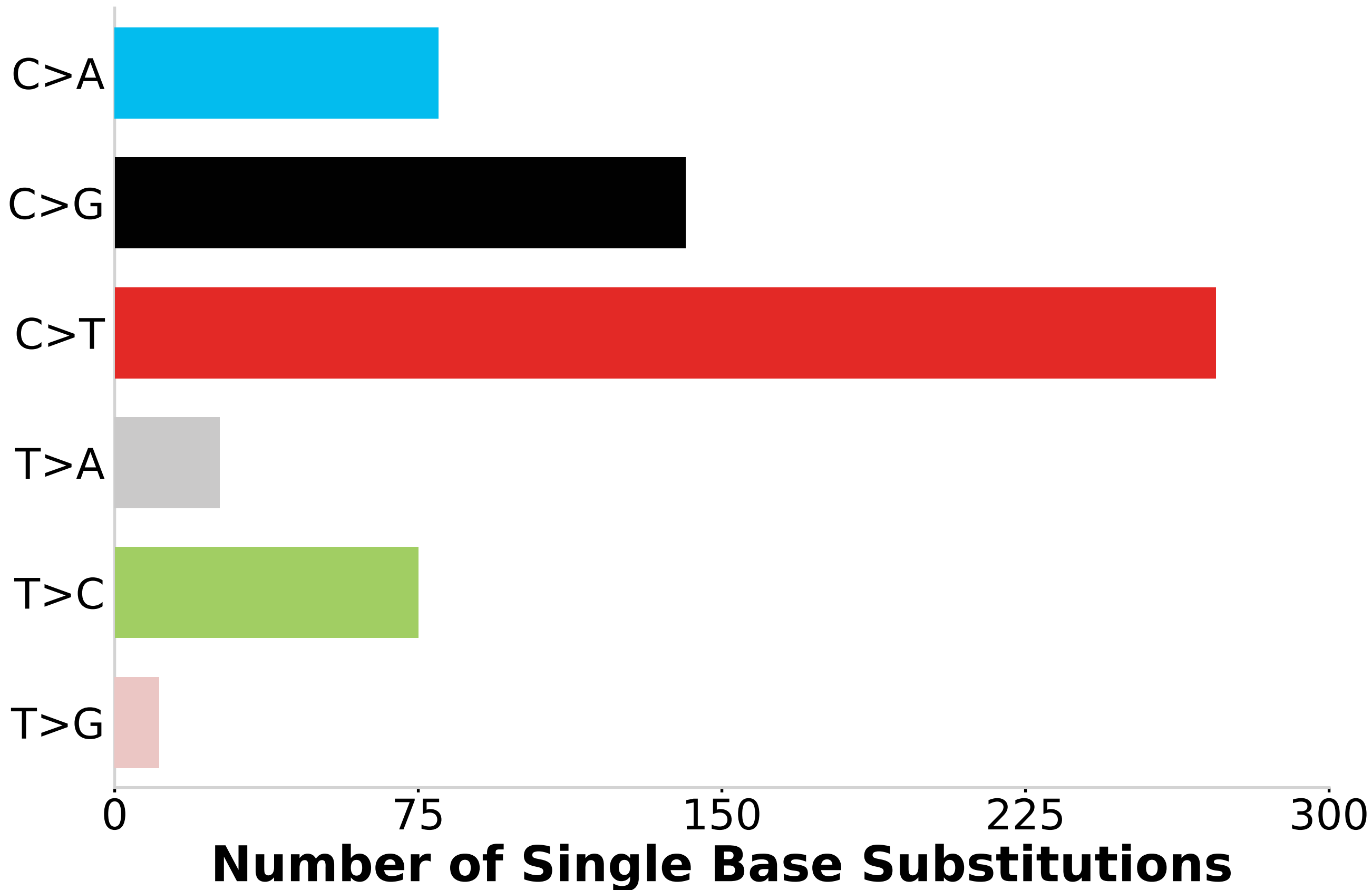
TCGA-UY-A80D-01A-11D-A364-08: 97 subs



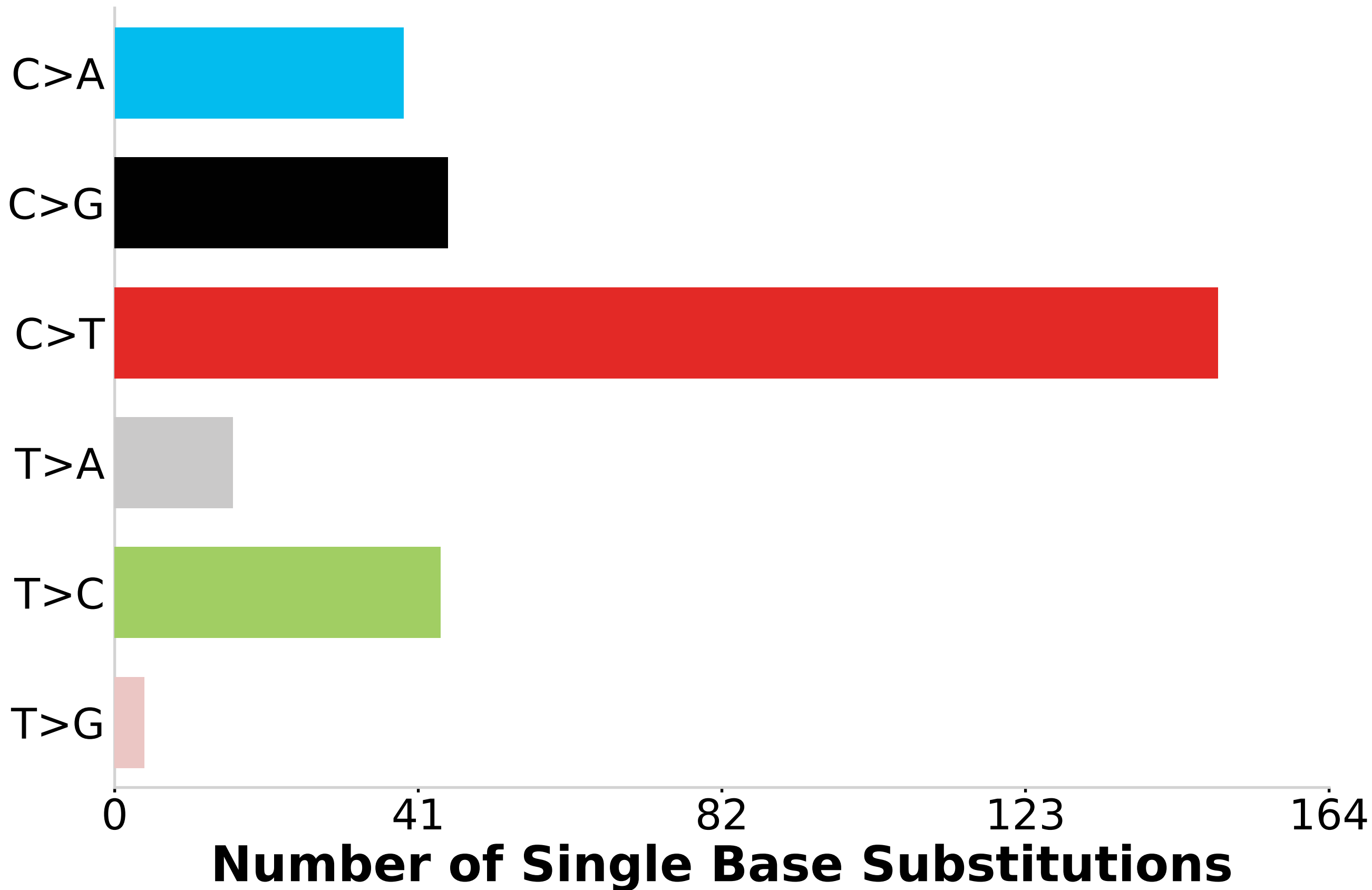
TCGA-UY-A9PA-01A-11D-A38G-08: 165 sub



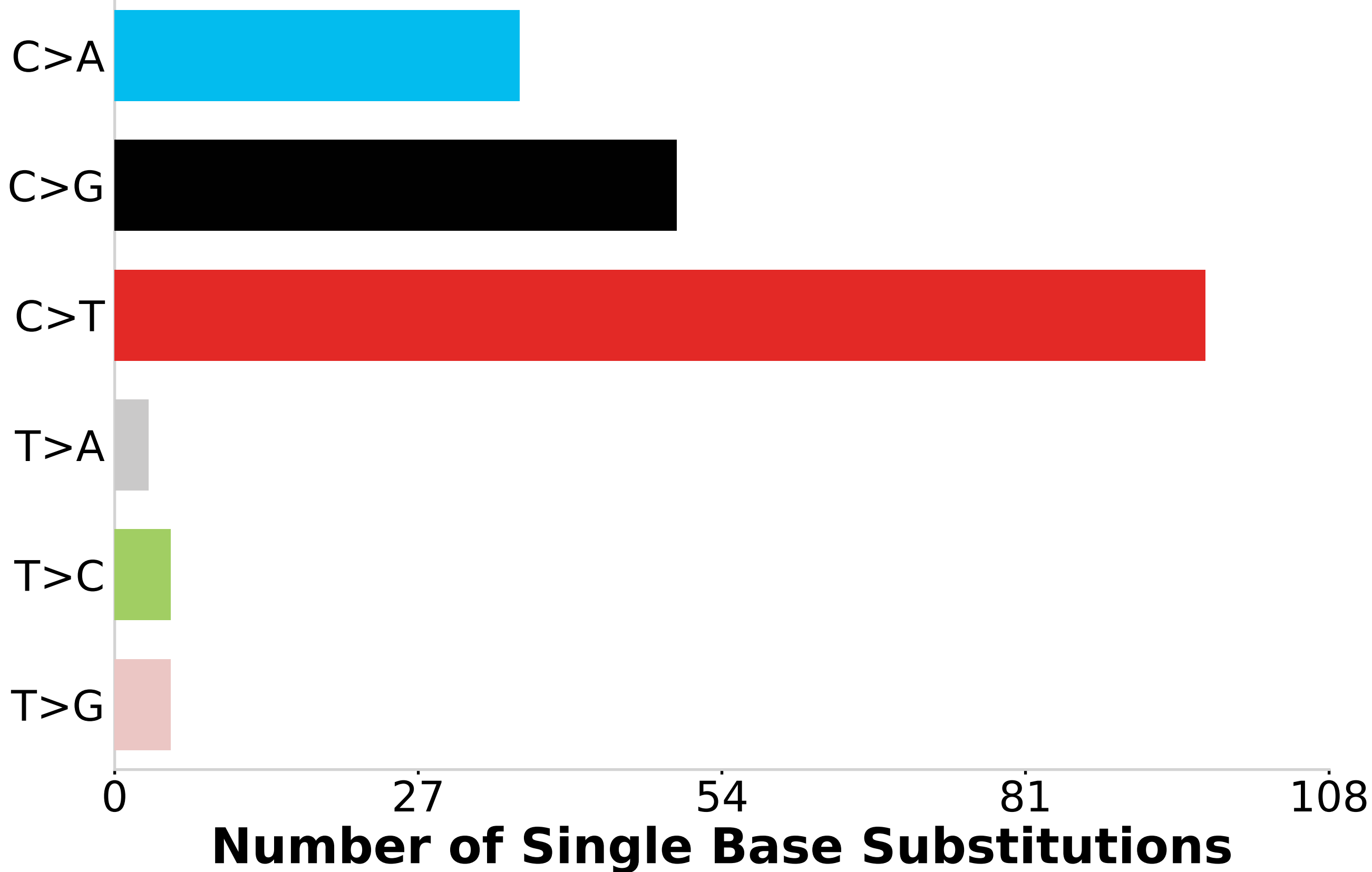
TCGA-UY-A9PB-01A-11D-A38G-08: 605 sub



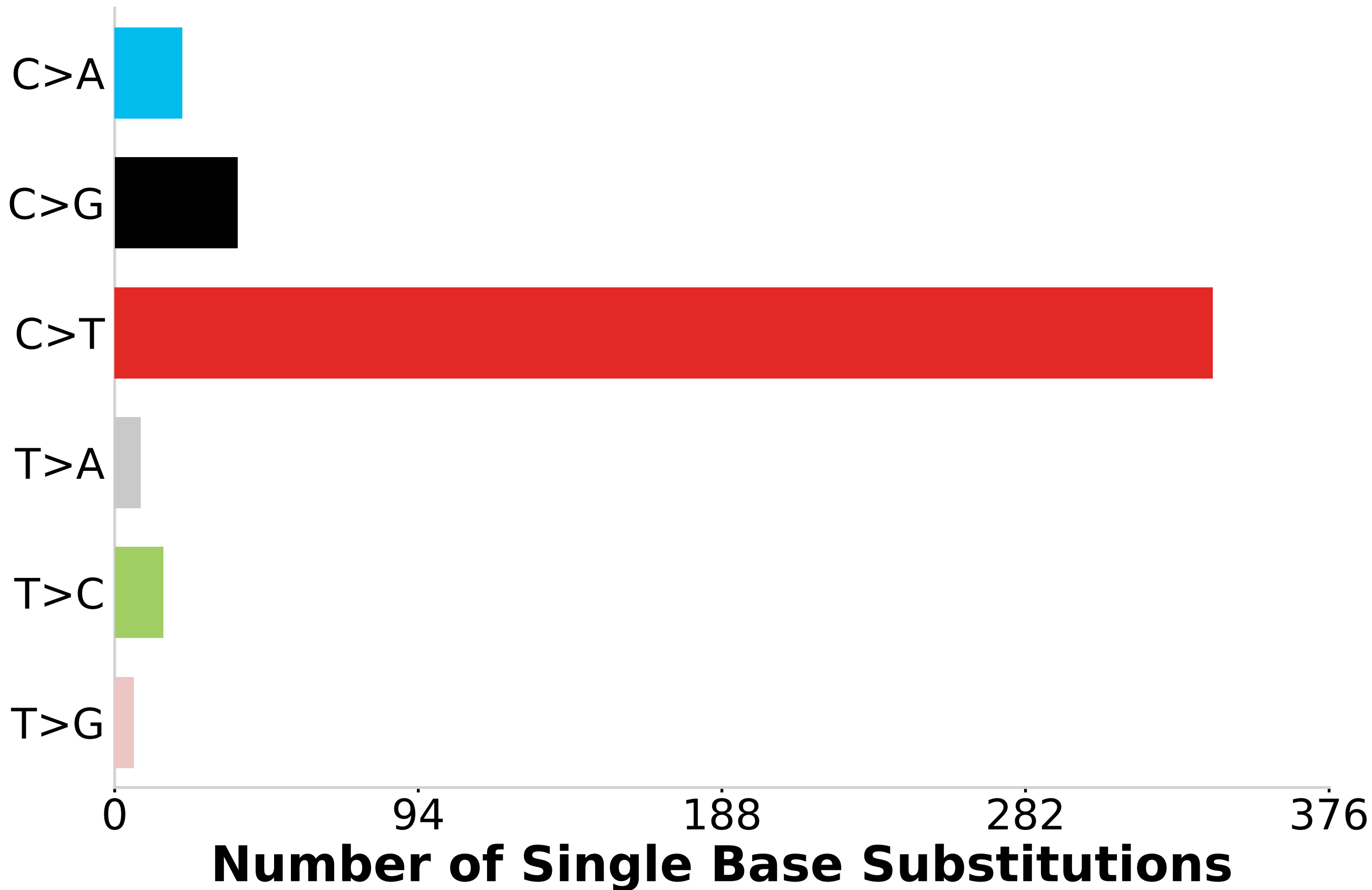
TCGA-UY-A9PD-01A-11D-A38G-08: 297 sub



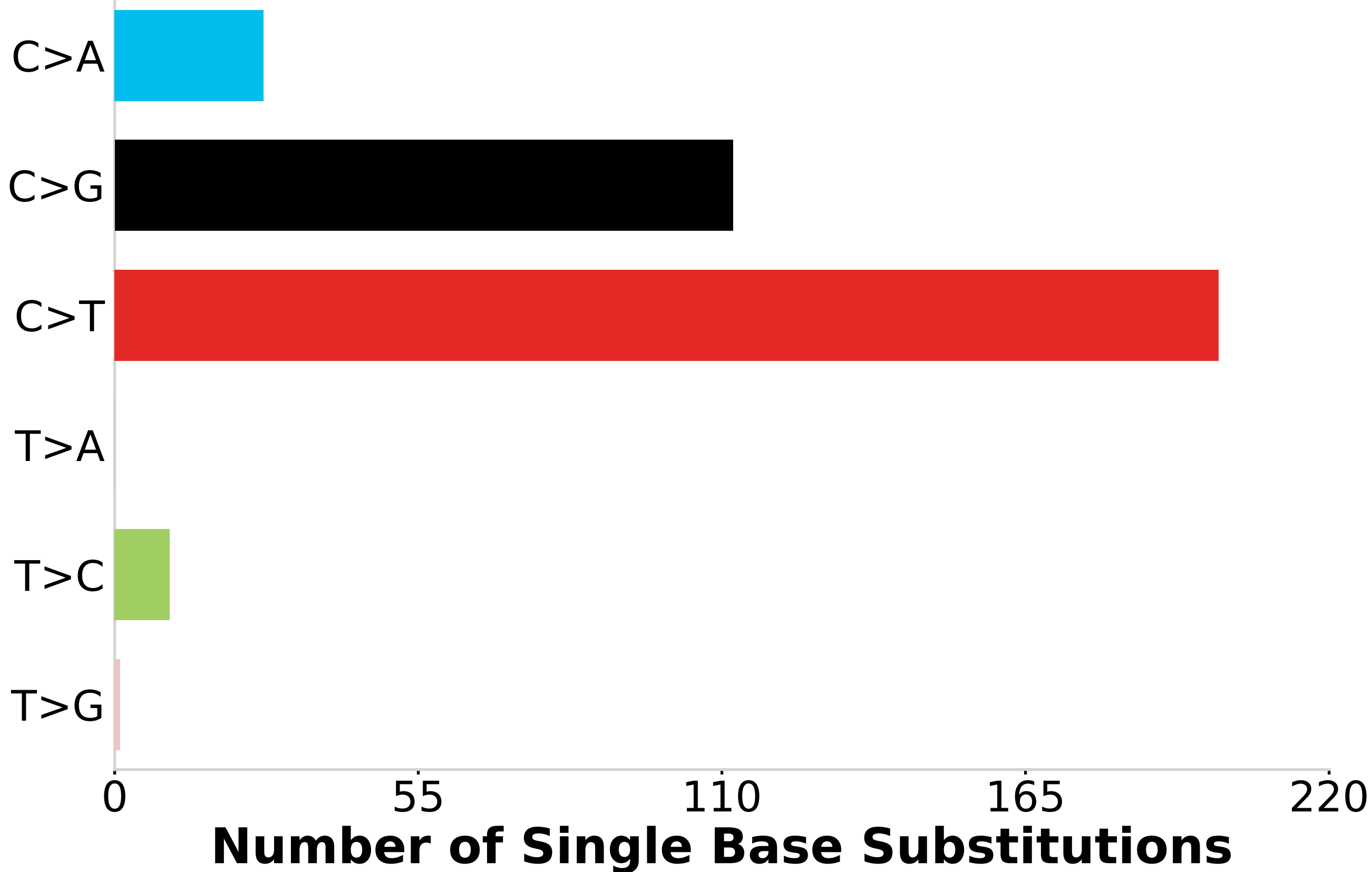
TCGA-UY-A9PE-01A-11D-A38G-08: 196 sub



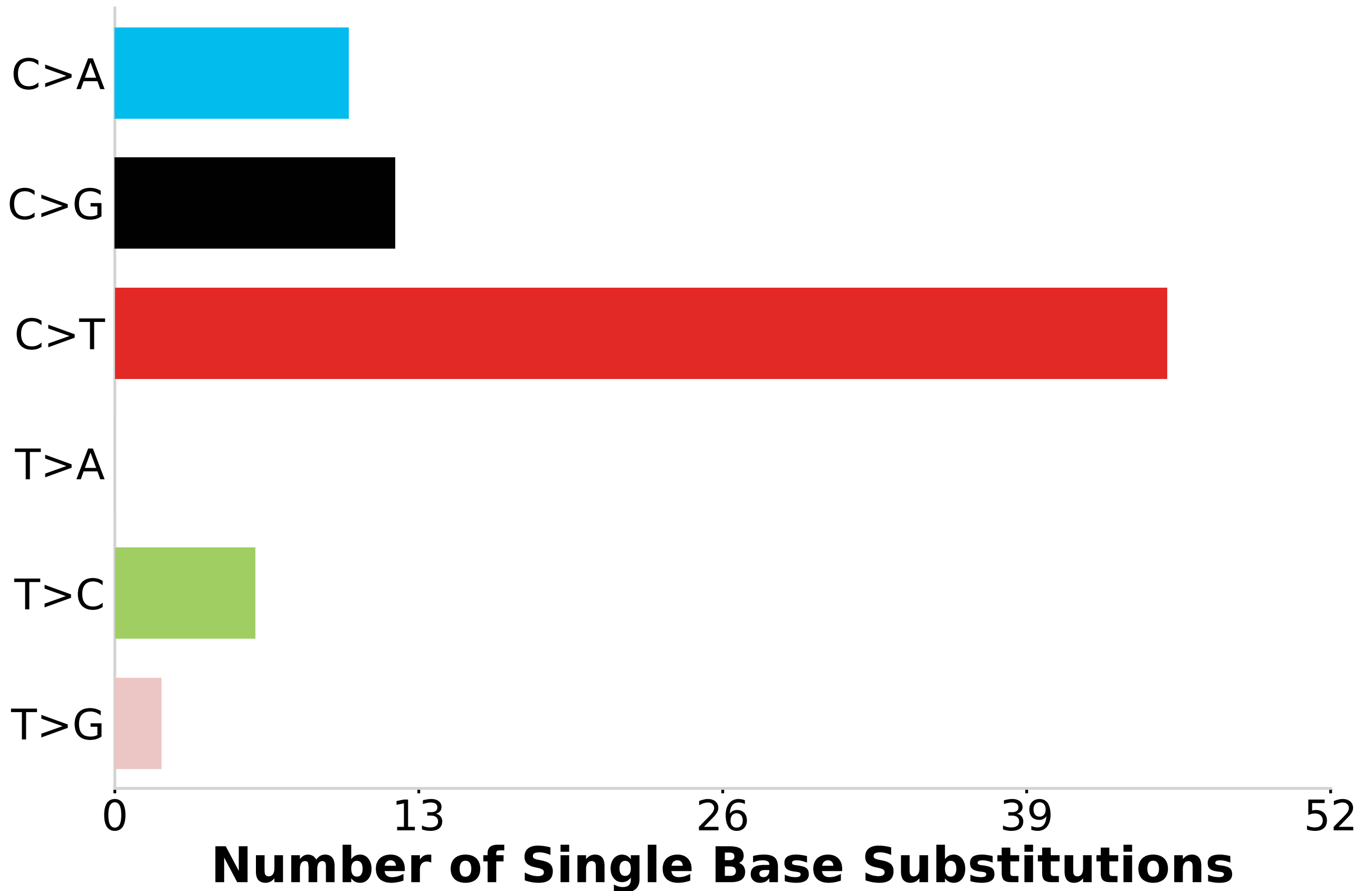
TCGA-UY-A9PF-01A-11D-A38G-08: 428 sub



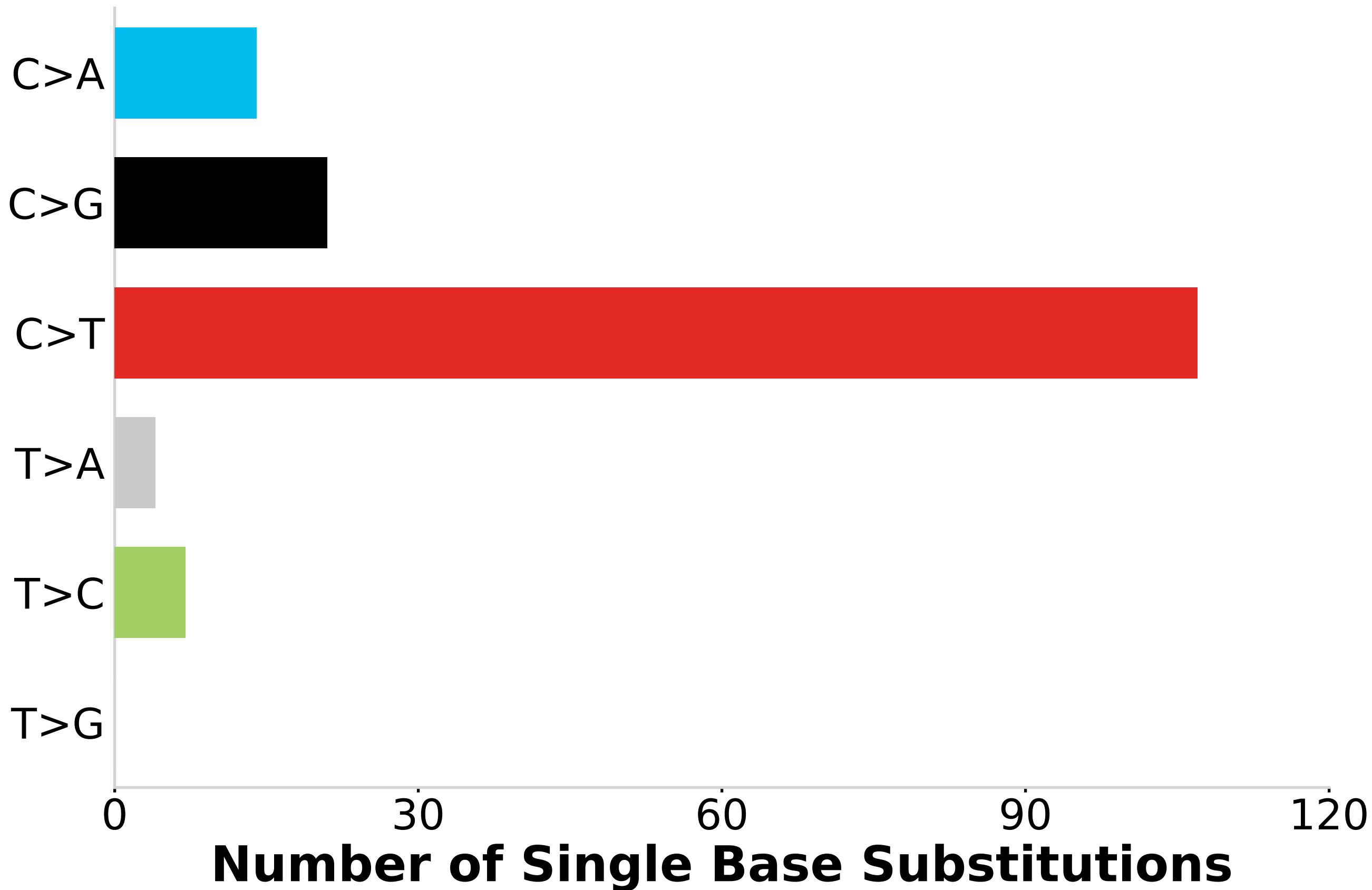
TCGA-UY-A9PH-01A-11D-A38G-08: 350 sub



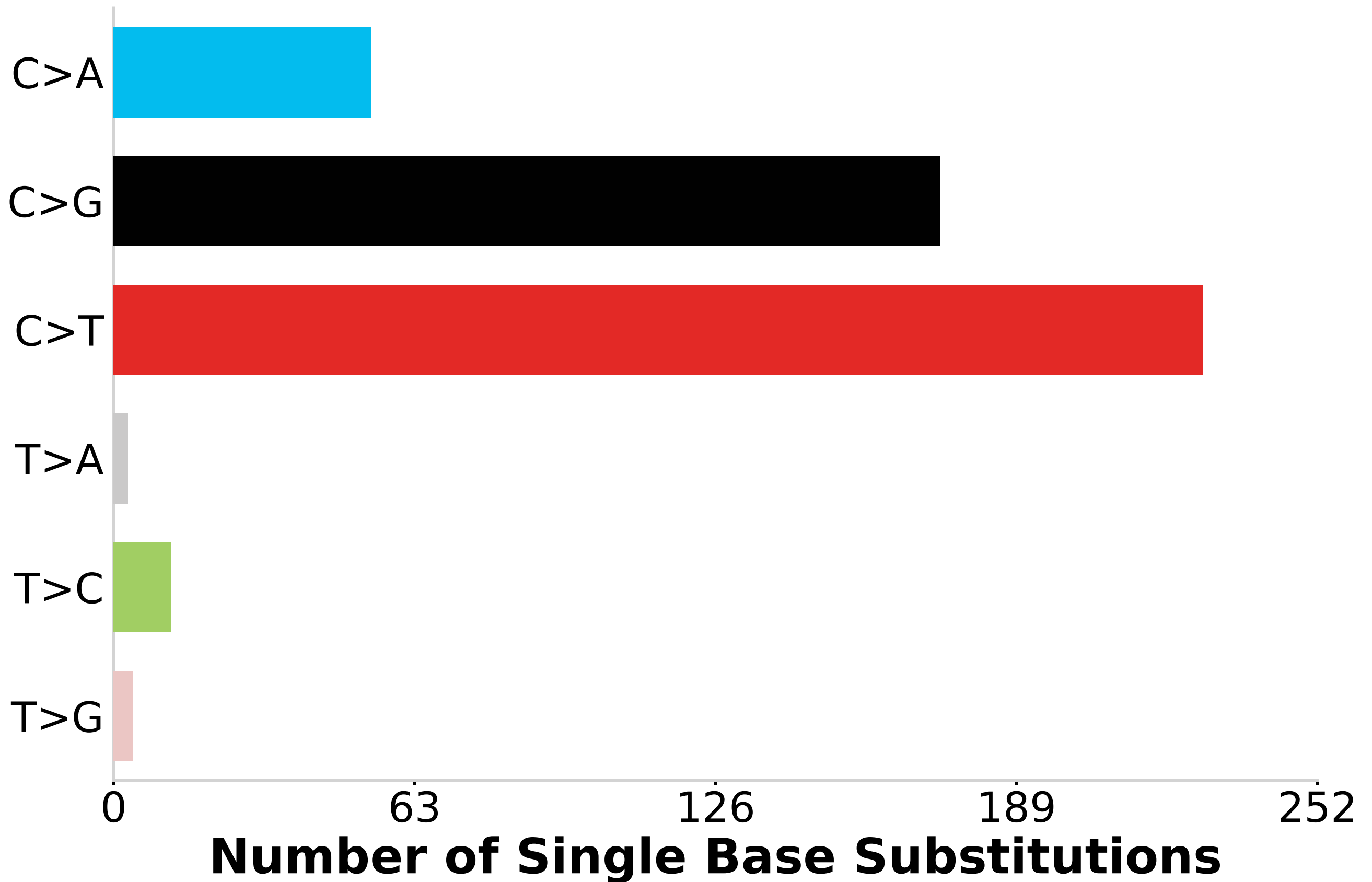
TCGA-XF-A8HB-01A-11D-A364-08: 75 subs



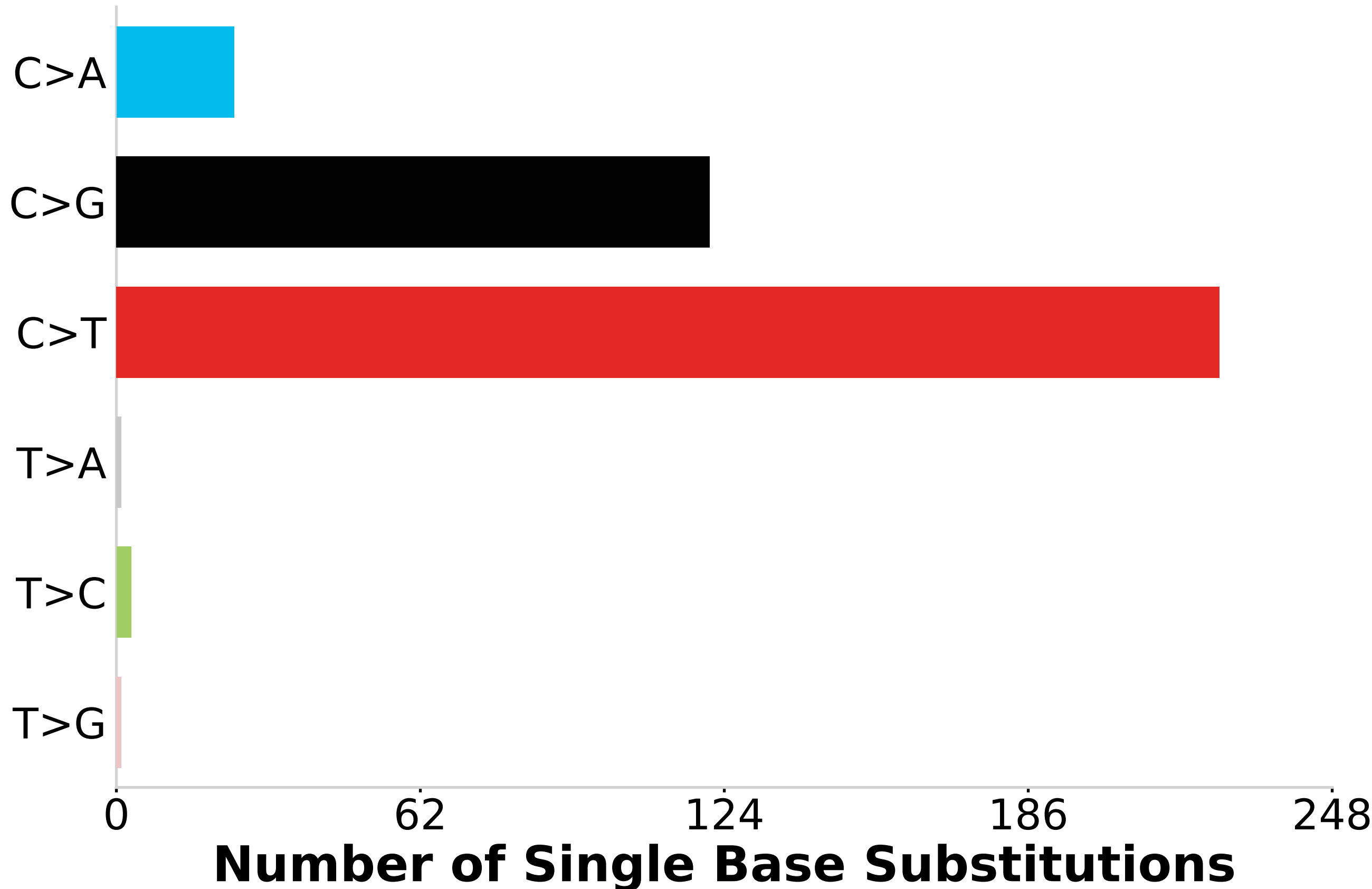
TCGA-XF-A8HC-01A-11D-A364-08: 153 sub



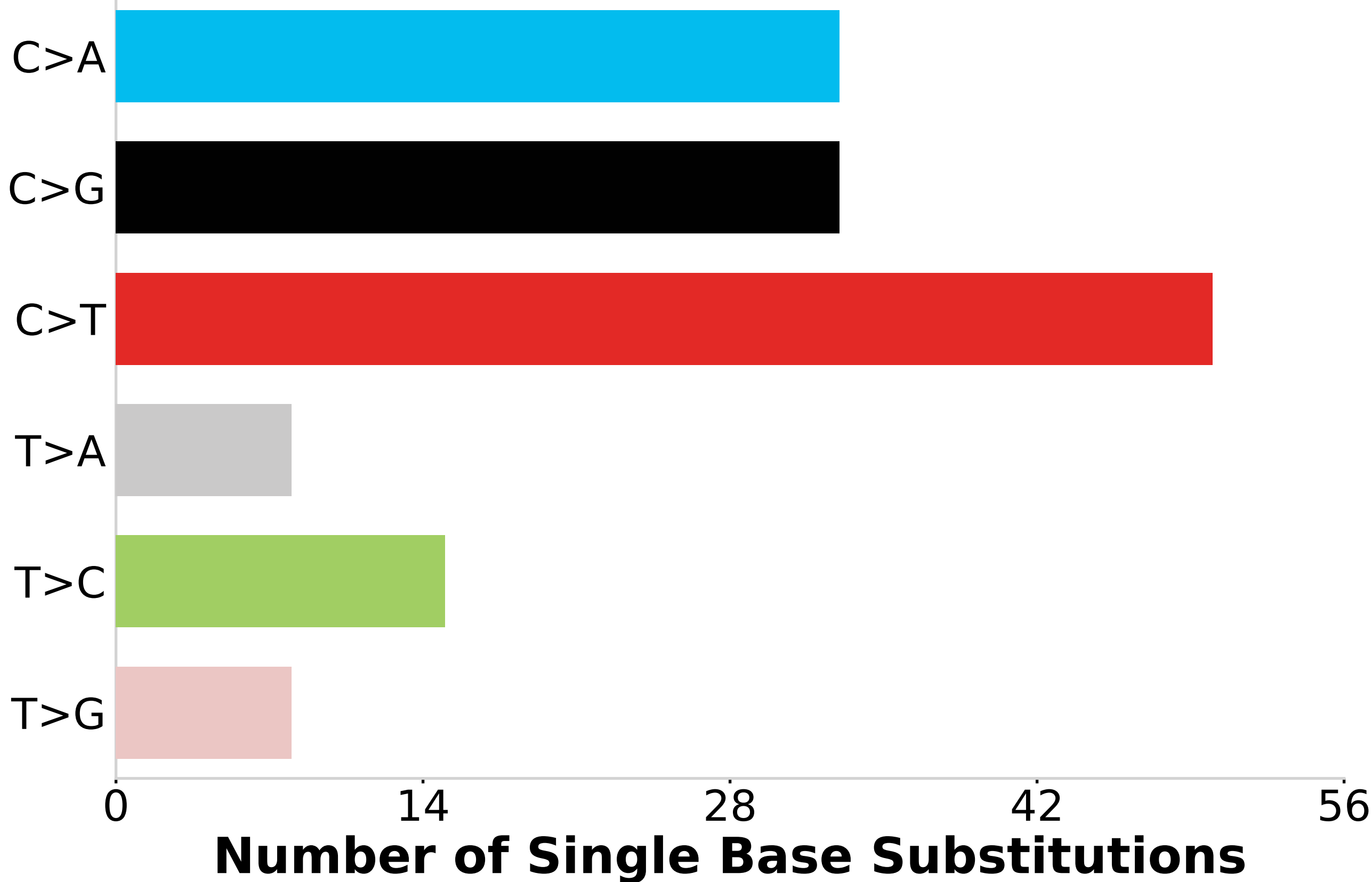
TCGA-XF-A8HD-01A-11D-A364-08: 474 sub



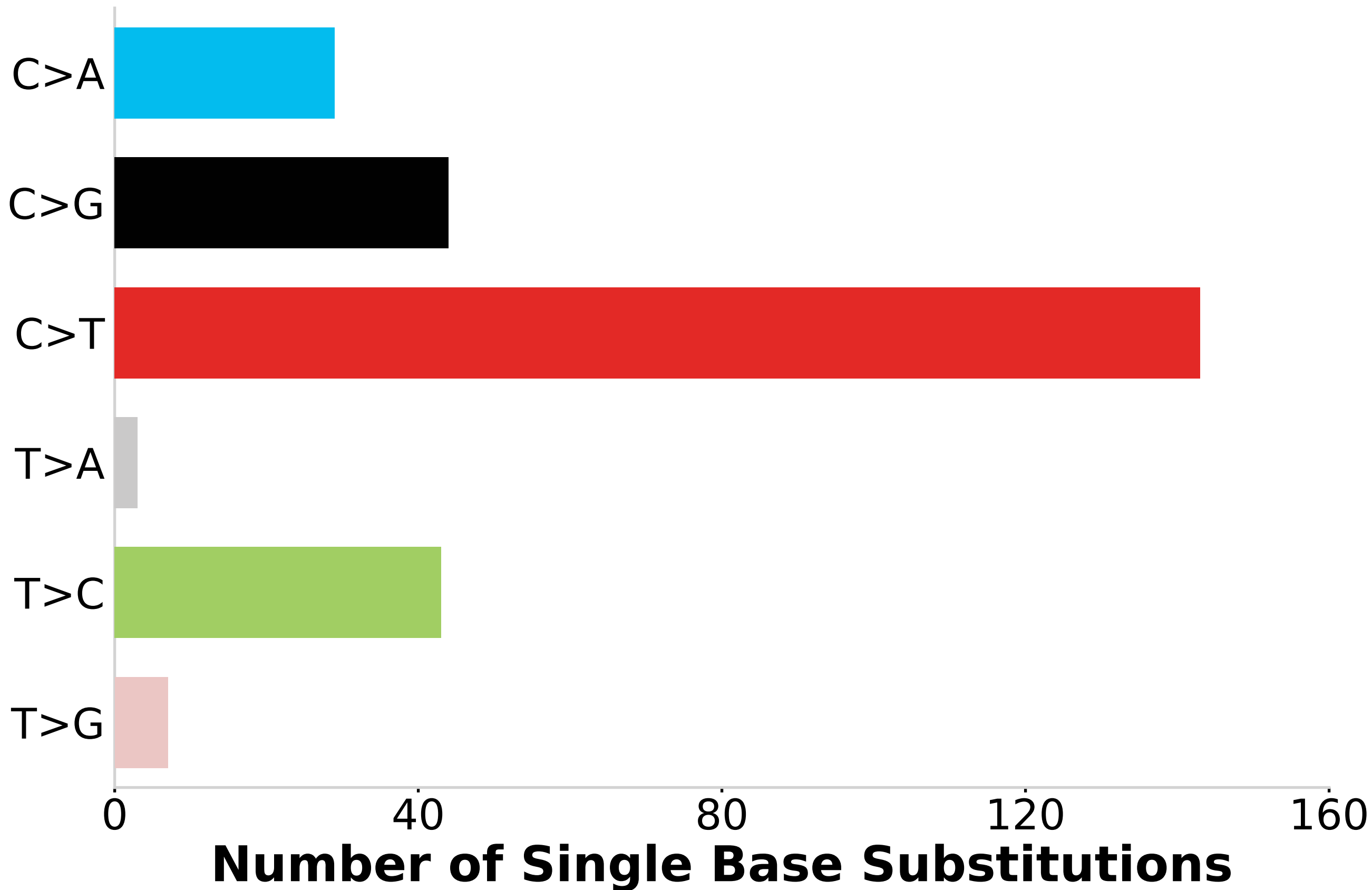
TCGA-XF-A8HE-01A-11D-A364-08: 375 sub



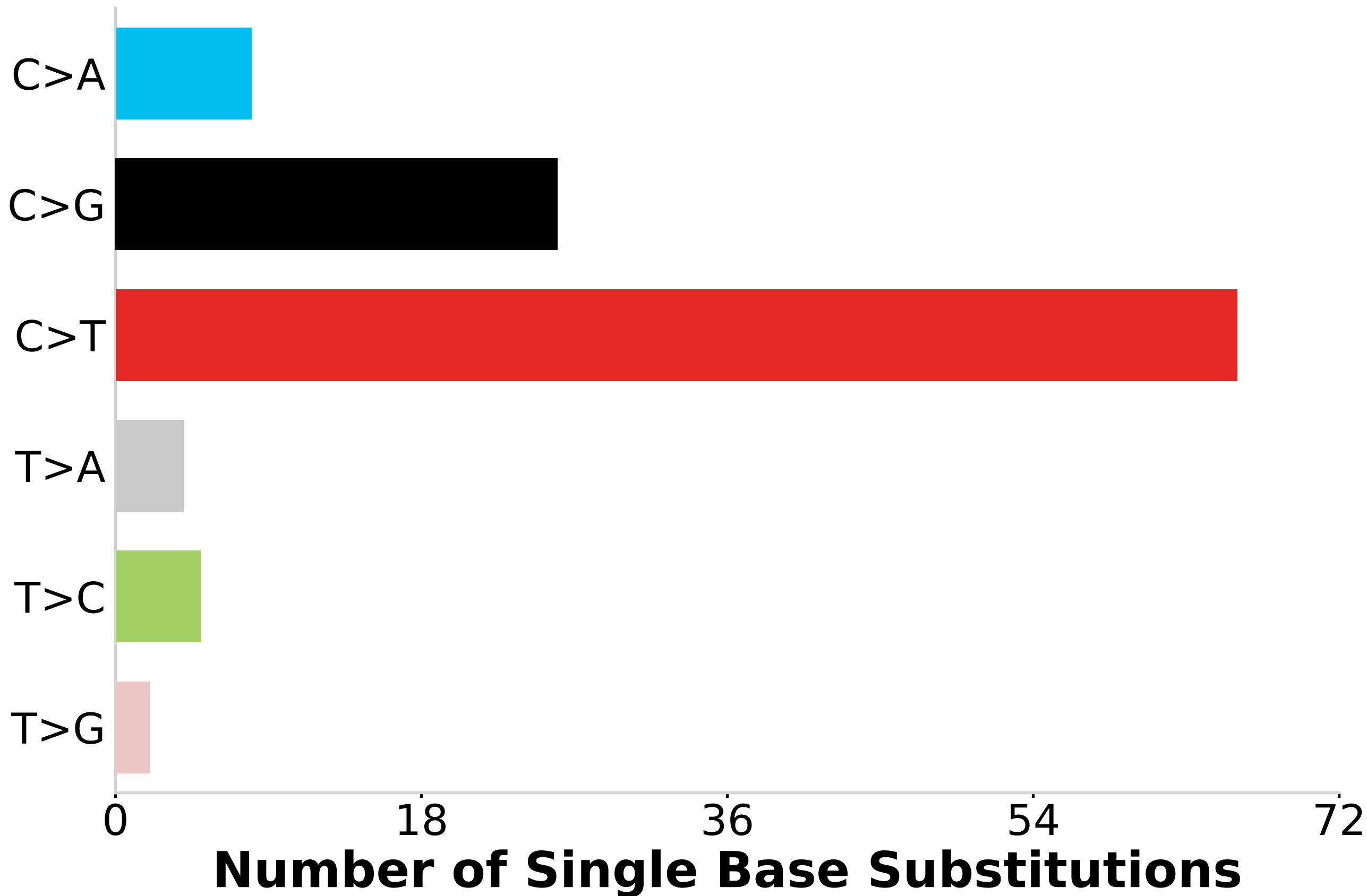
TCGA-XF-A8HF-01A-11D-A364-08: 147 sub



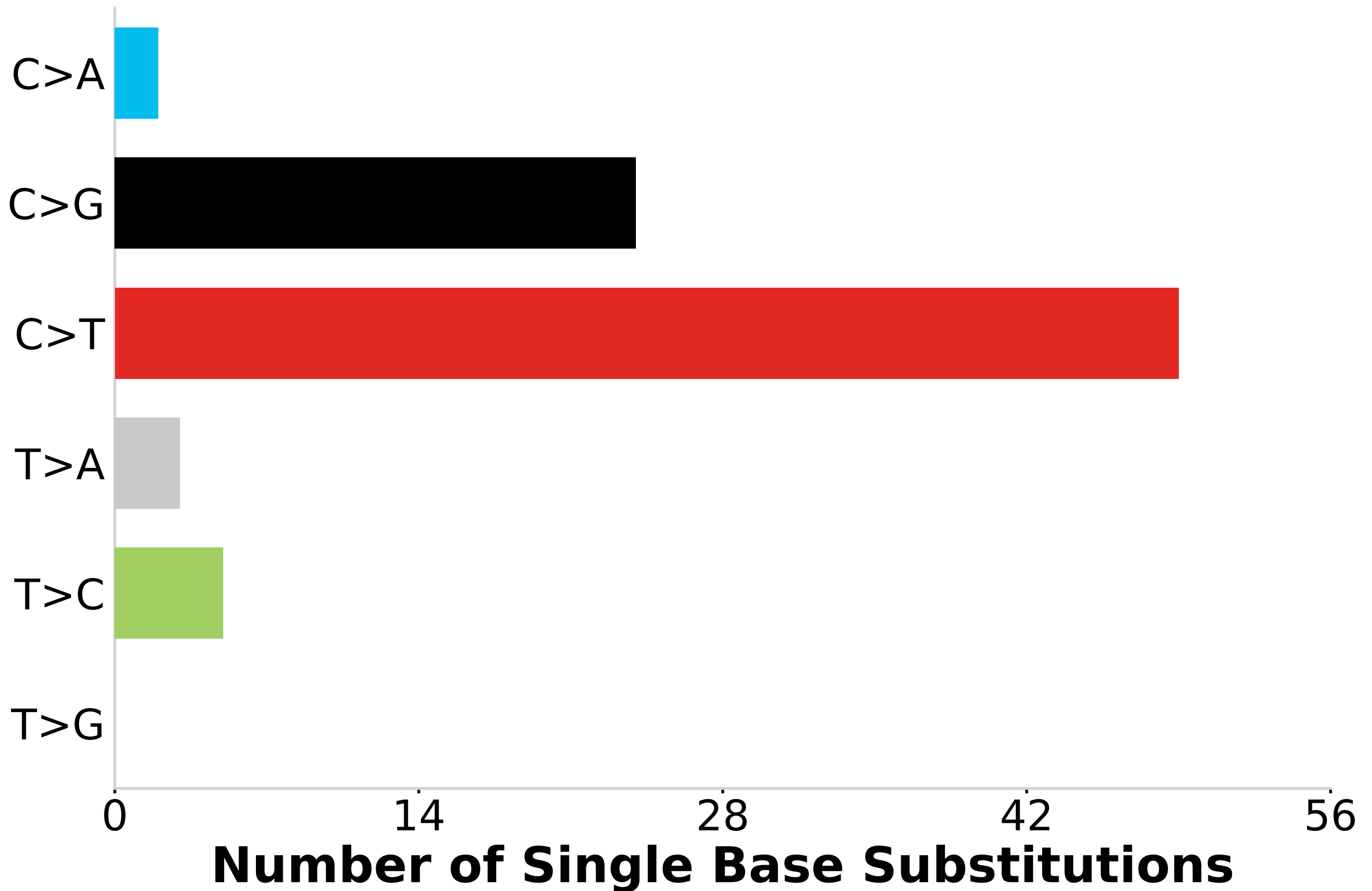
TCGA-XF-A8HG-01A-11D-A364-08: 269 sub



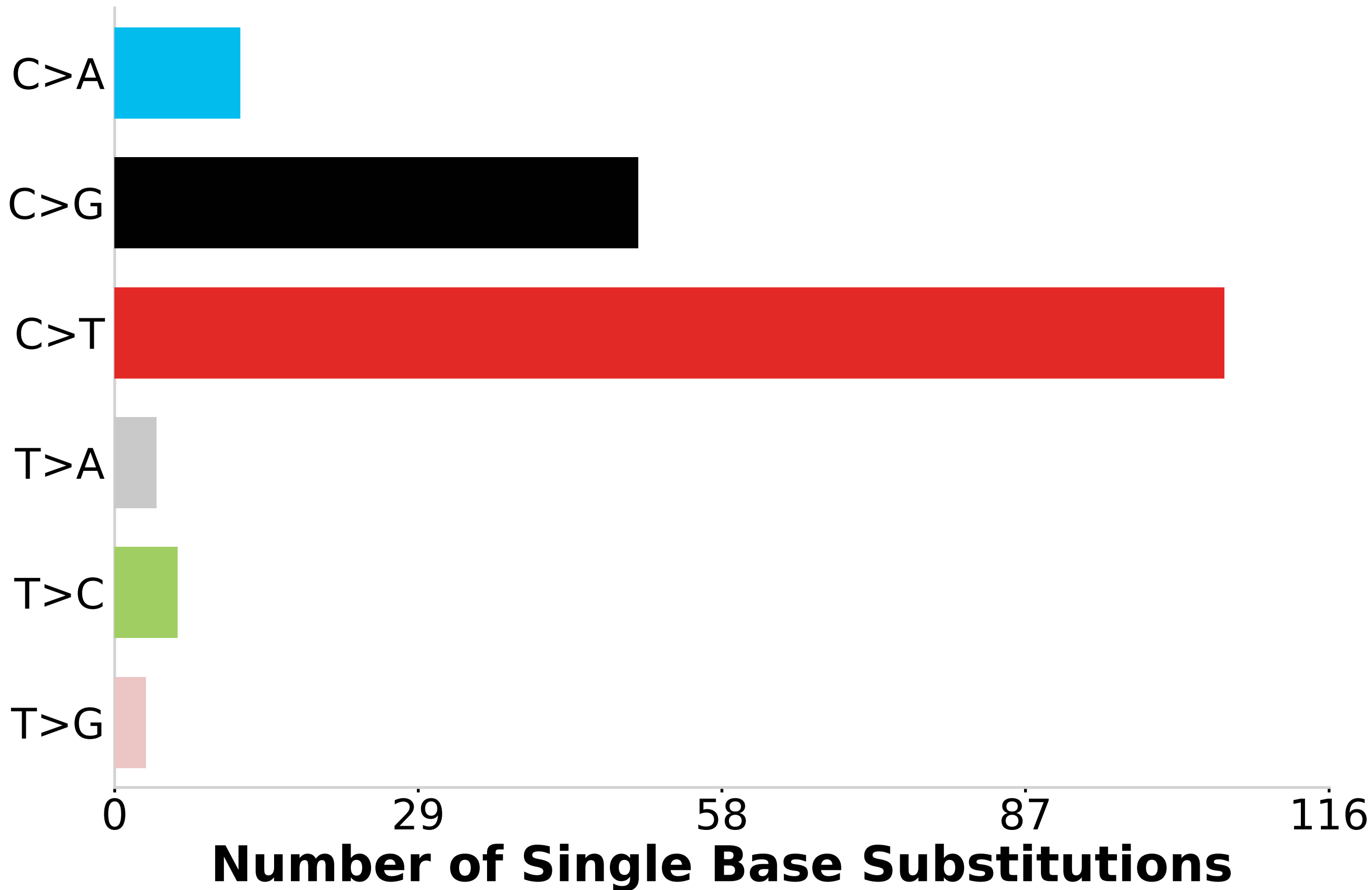
TCGA-XF-A8HH-01A-11D-A38G-08: 111 sub



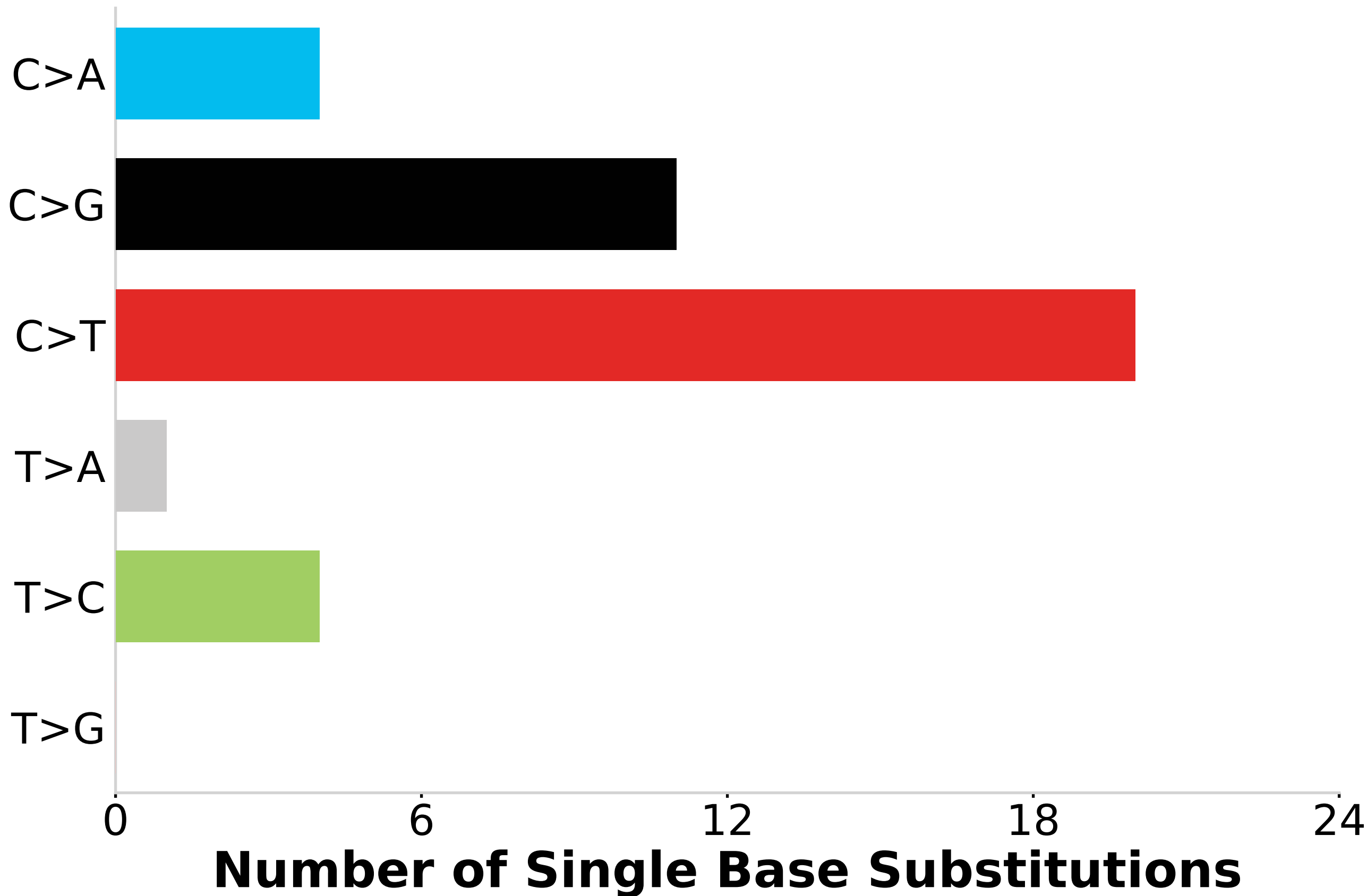
TCGA-XF-A8HI-01A-11D-A38G-08: 83 subs



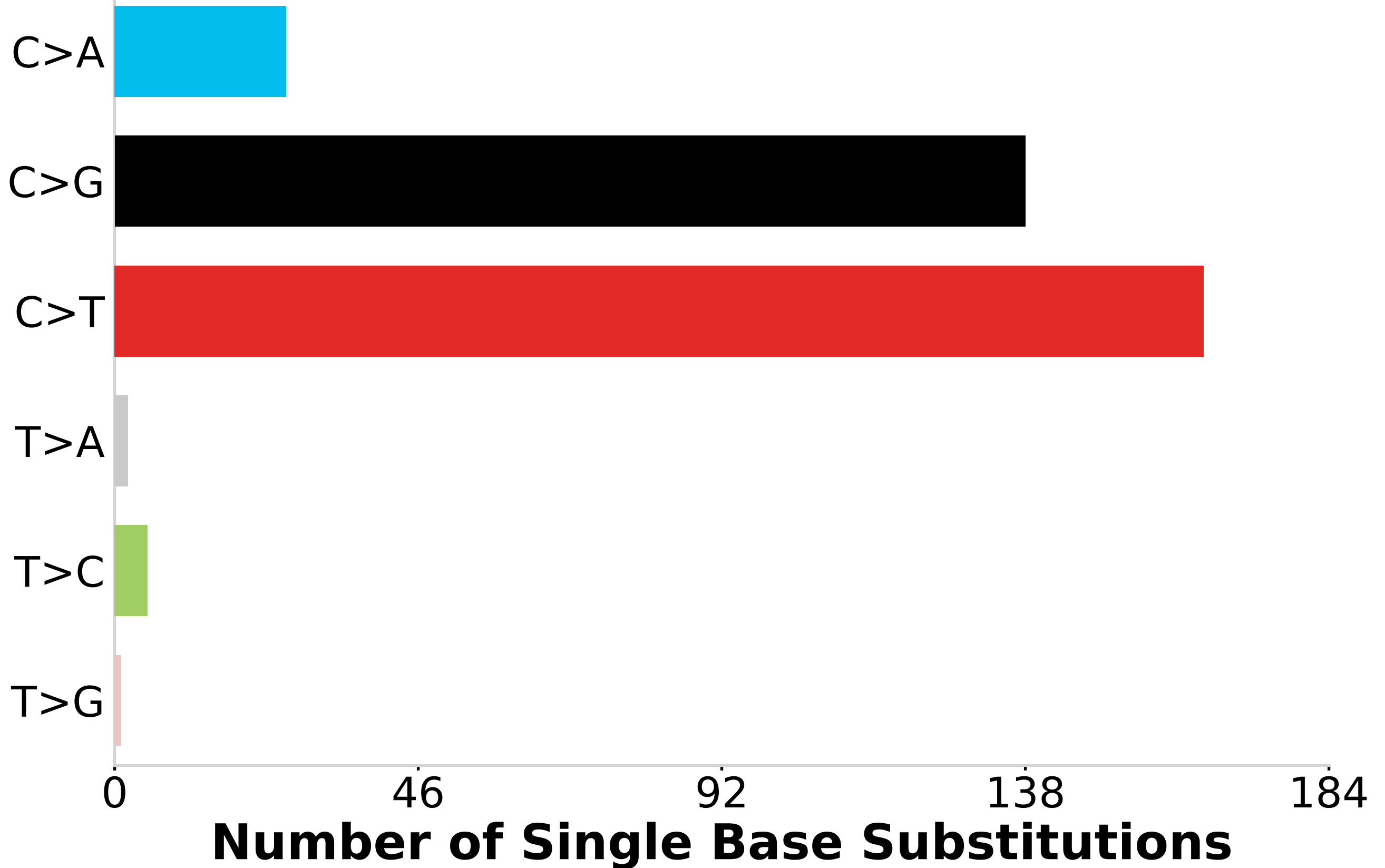
TCGA-XF-A9SG-01A-12D-A42E-08: 181 sub



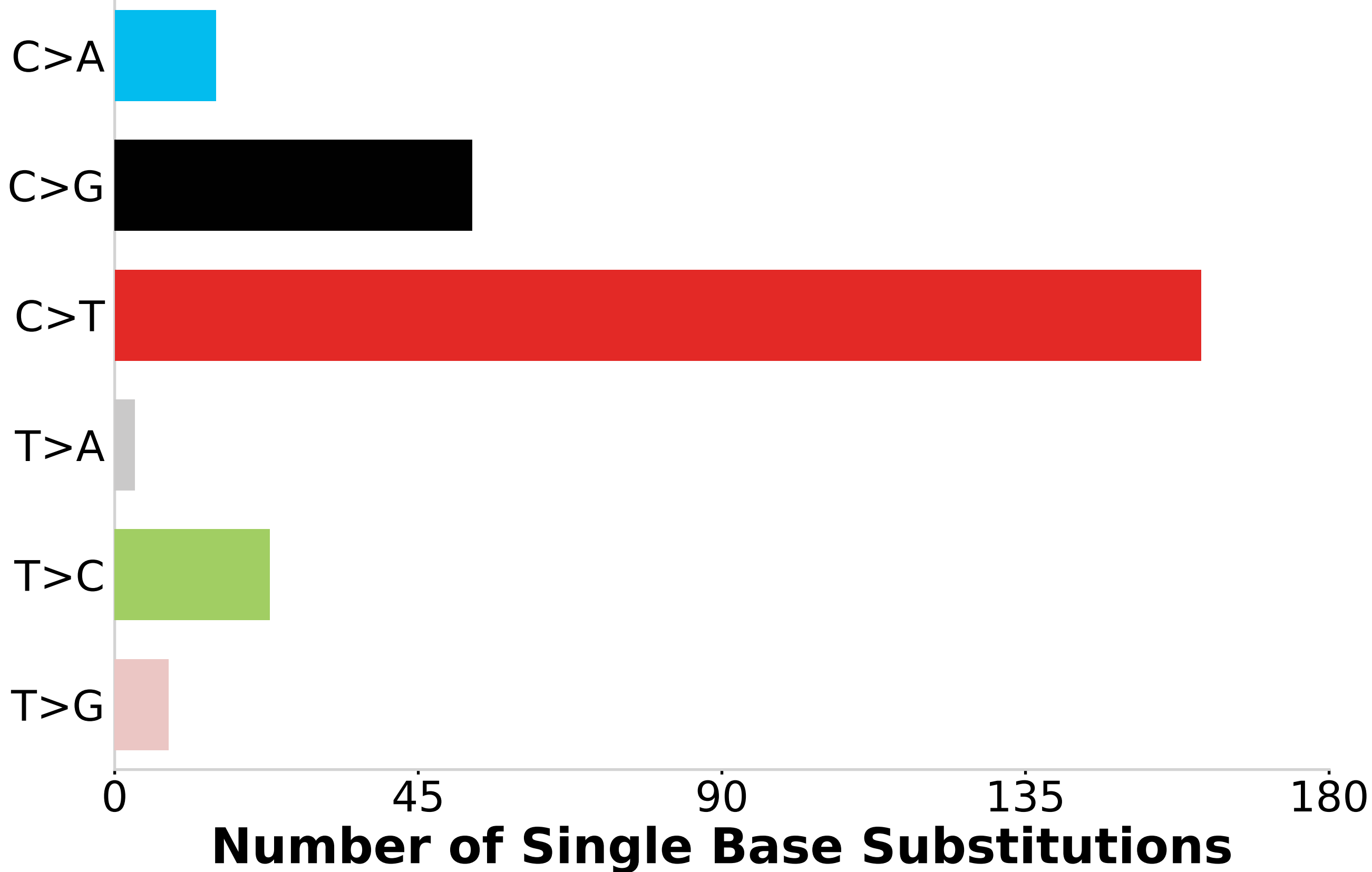
TCGA-XF-A9SH-01A-11D-A391-08: 40 subs



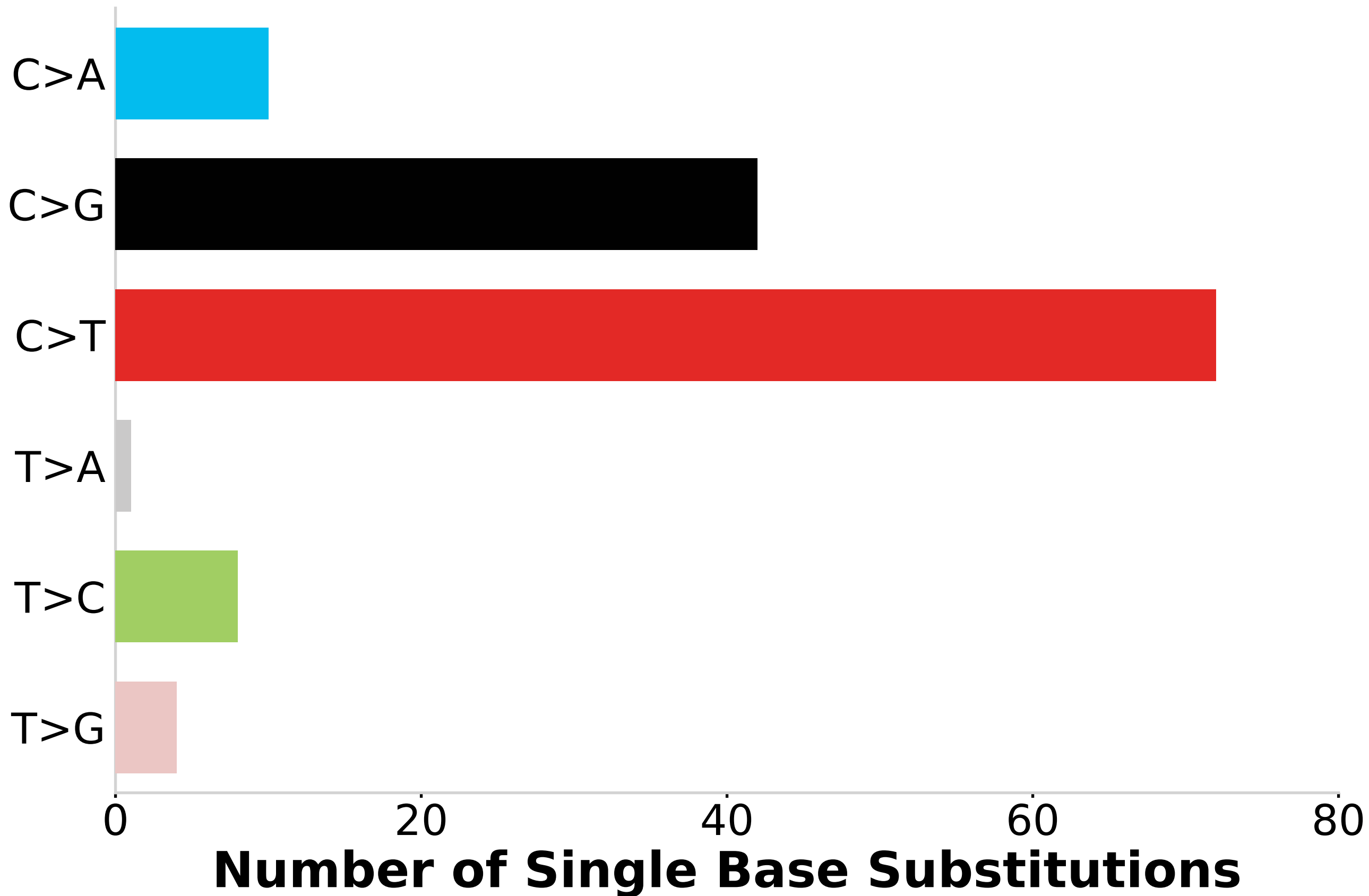
TCGA-XF-A9SI-01A-11D-A391-08: 337 subs



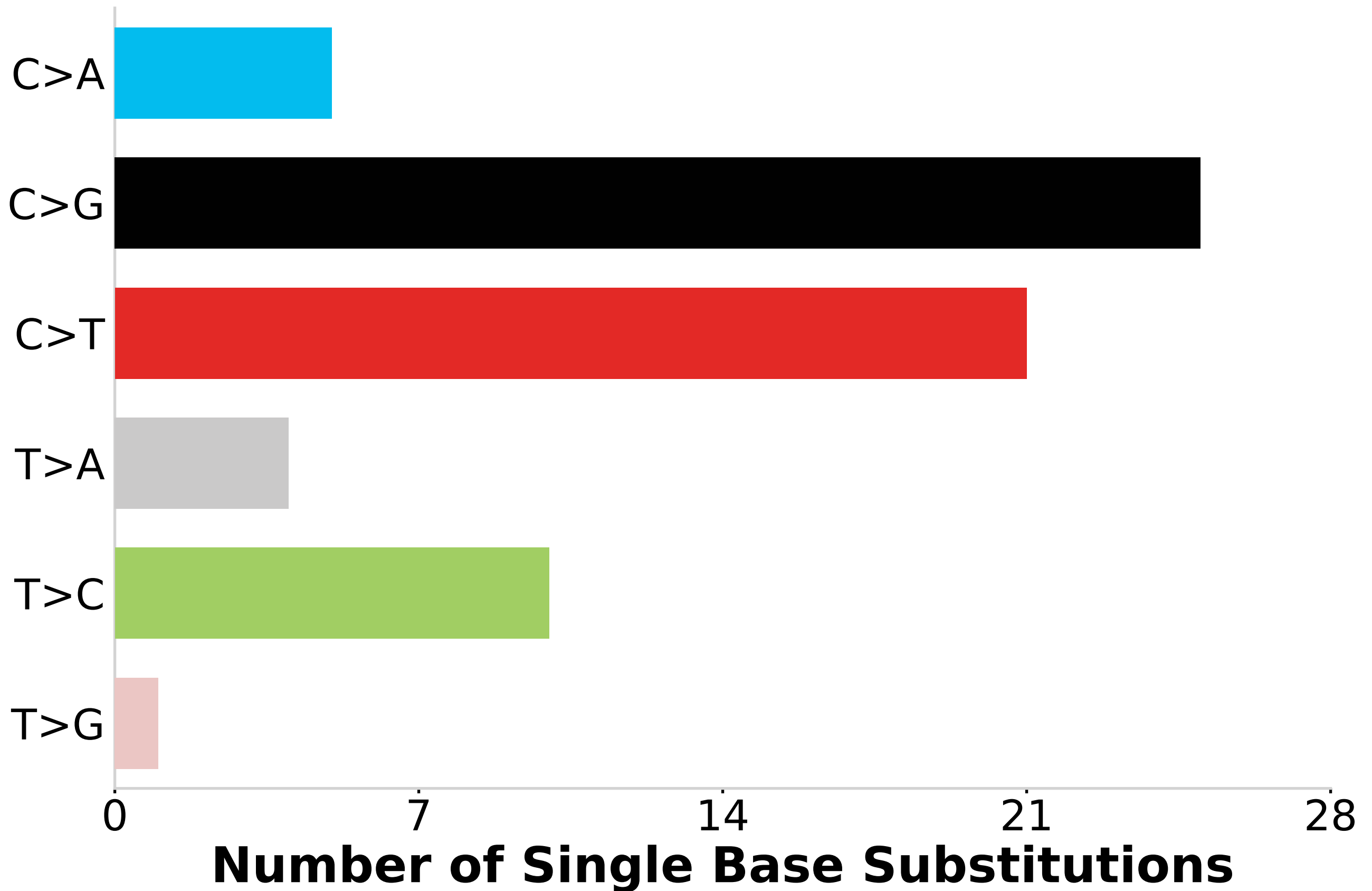
TCGA-XF-A9SJ-01A-11D-A391-08: 263 subs



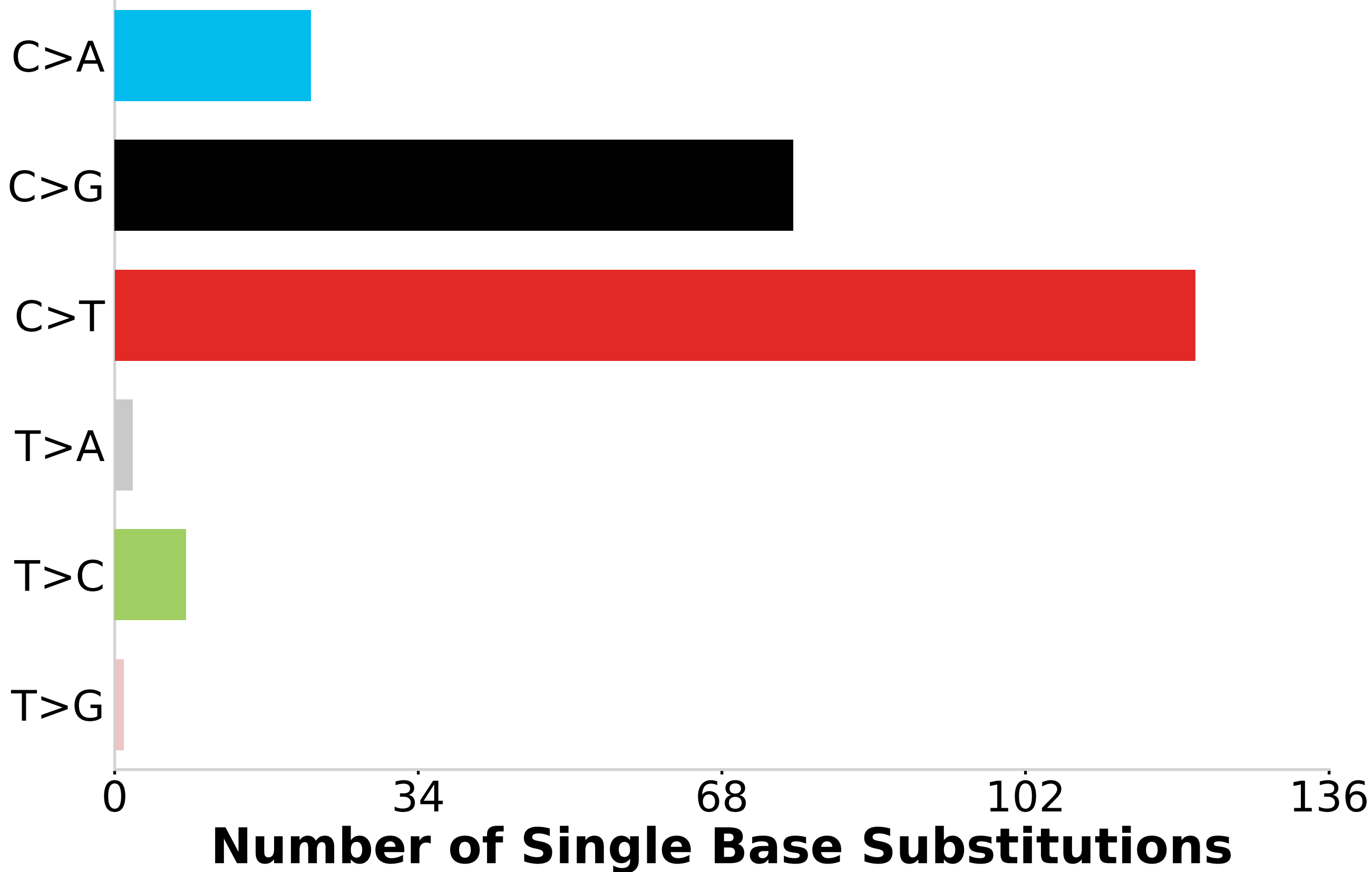
TCGA-XF-A9SK-01A-11D-A42E-08: 137 sub



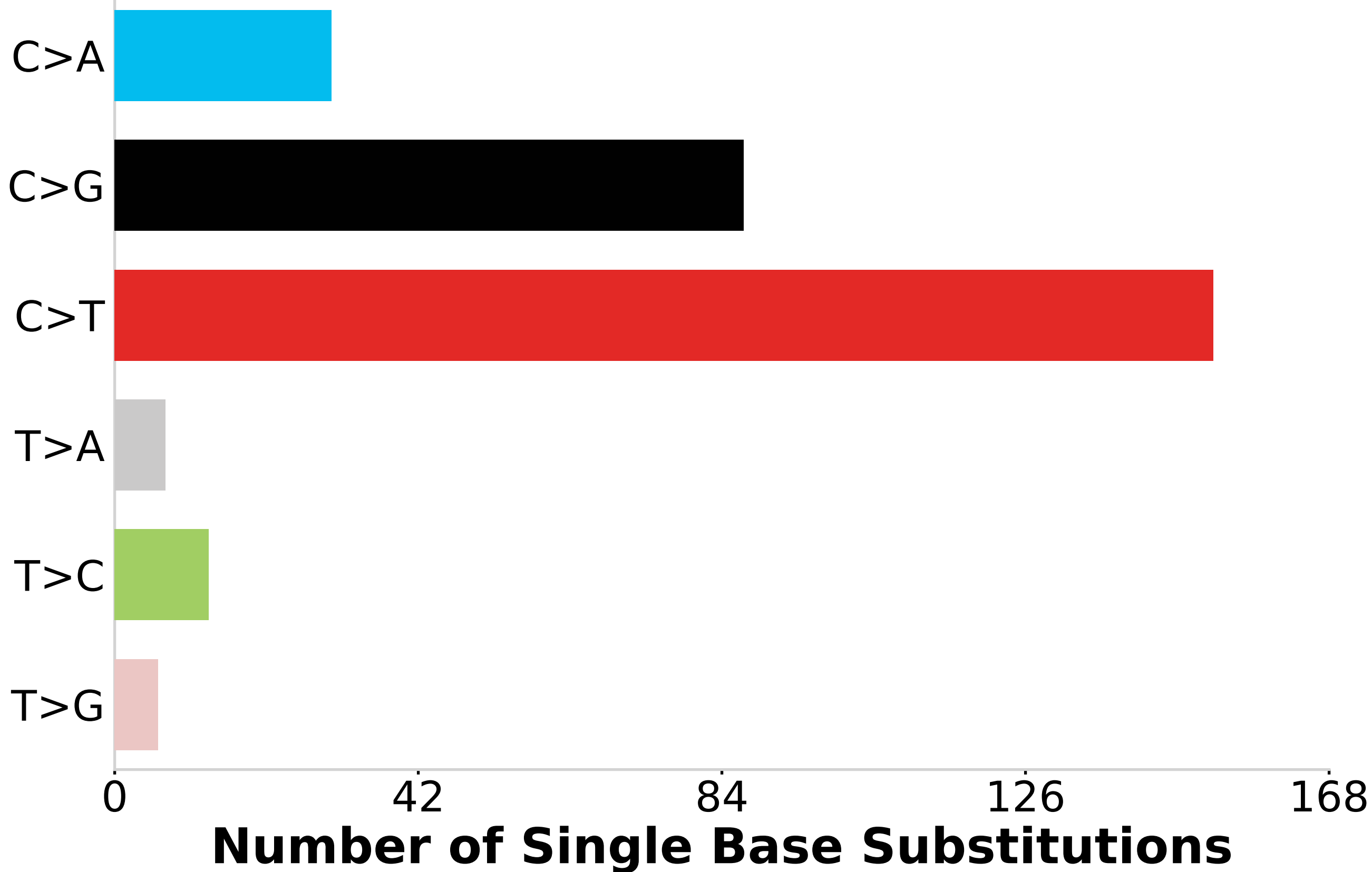
TCGA-XF-A9SL-01A-11D-A391-08: 66 subs



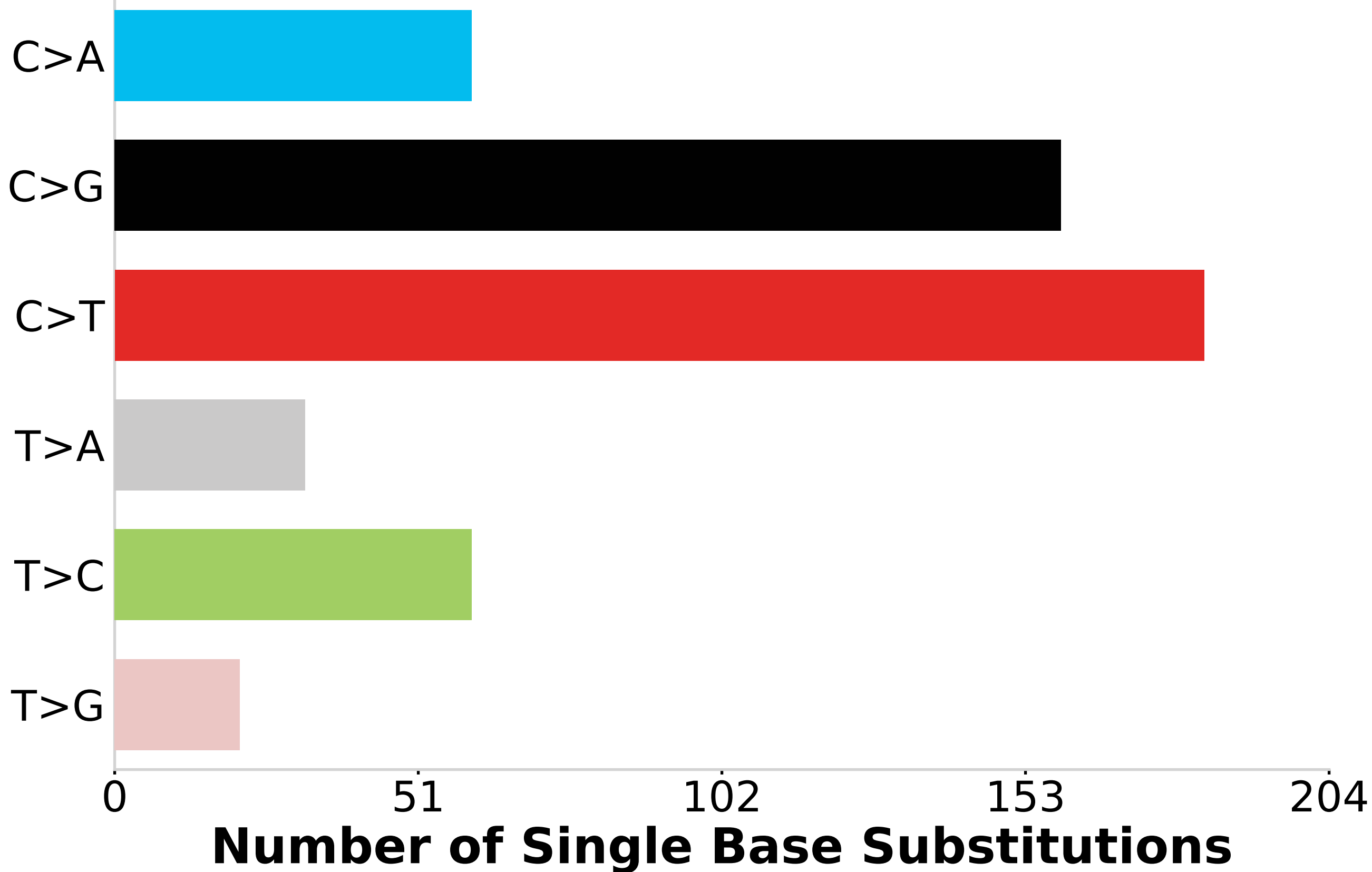
TCGA-XF-A9SM-01A-11D-A42E-08: 230 sub



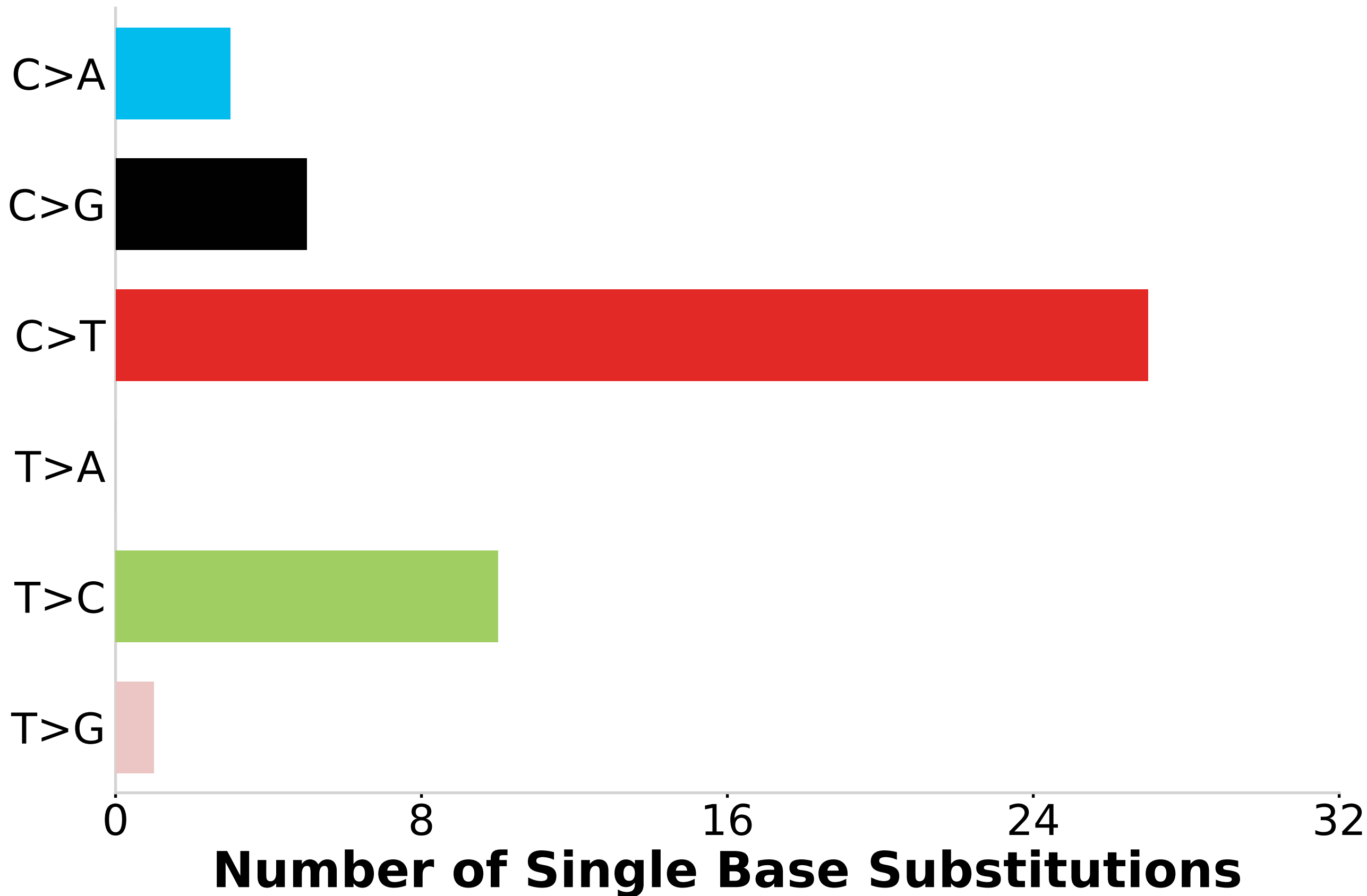
TCGA-XF-A9SP-01A-11D-A391-08: 295 sub



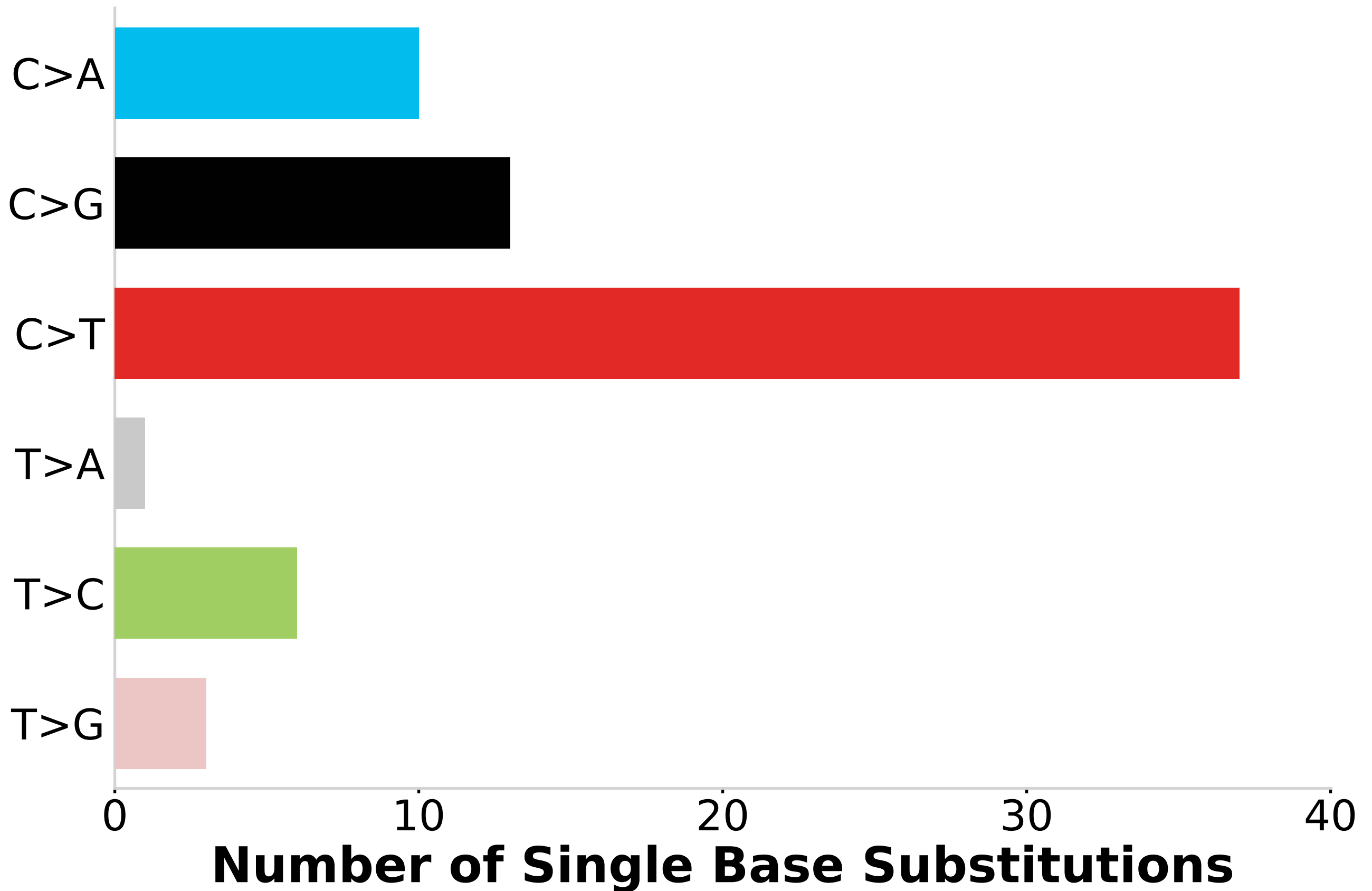
TCGA-XF-A9ST-01A-11D-A42E-08: 515 subs



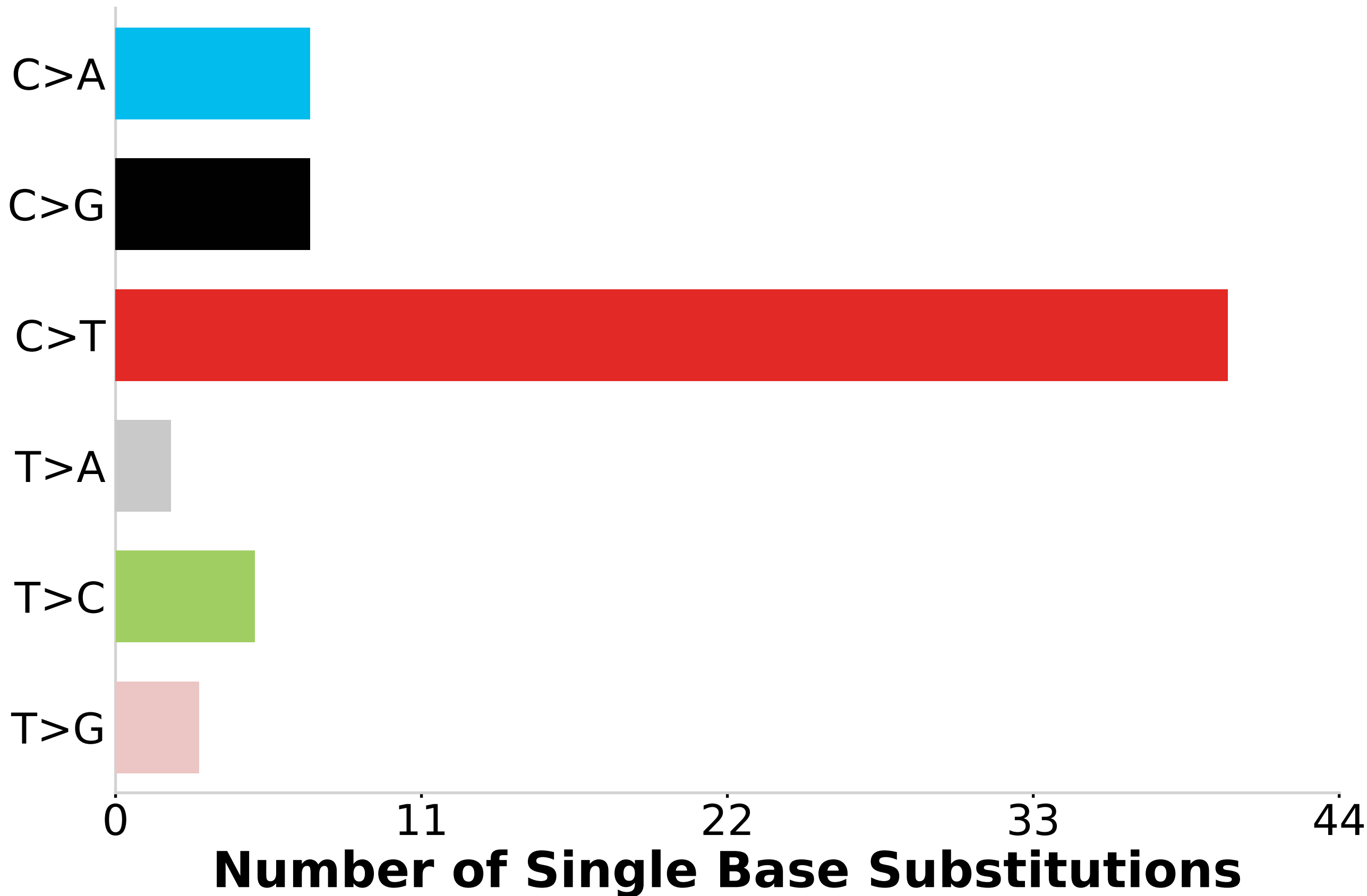
TCGA-XF-A9SU-01A-31D-A391-08: 46 subs



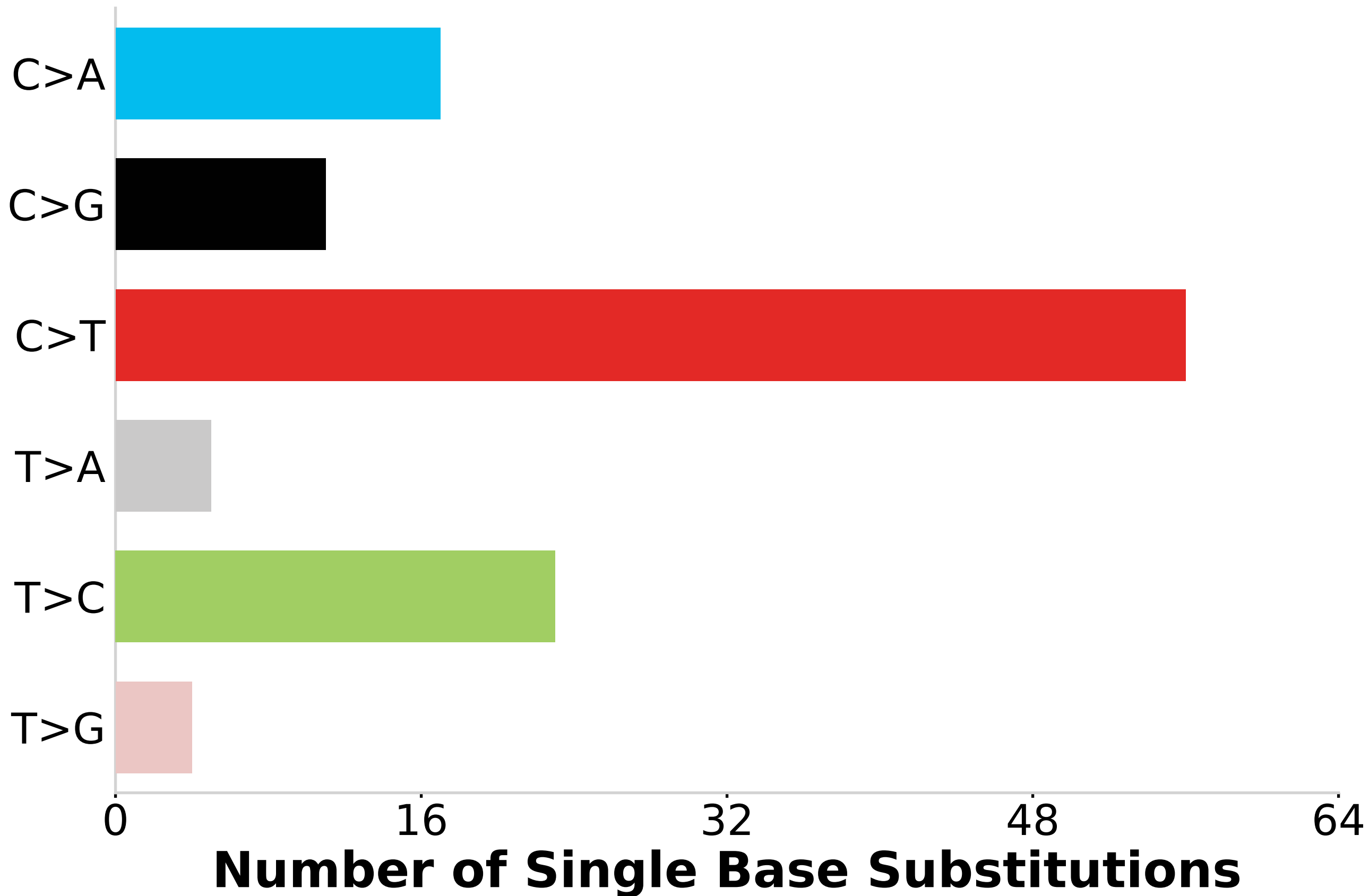
TCGA-XF-A9SV-01A-21D-A42E-08: 70 subs



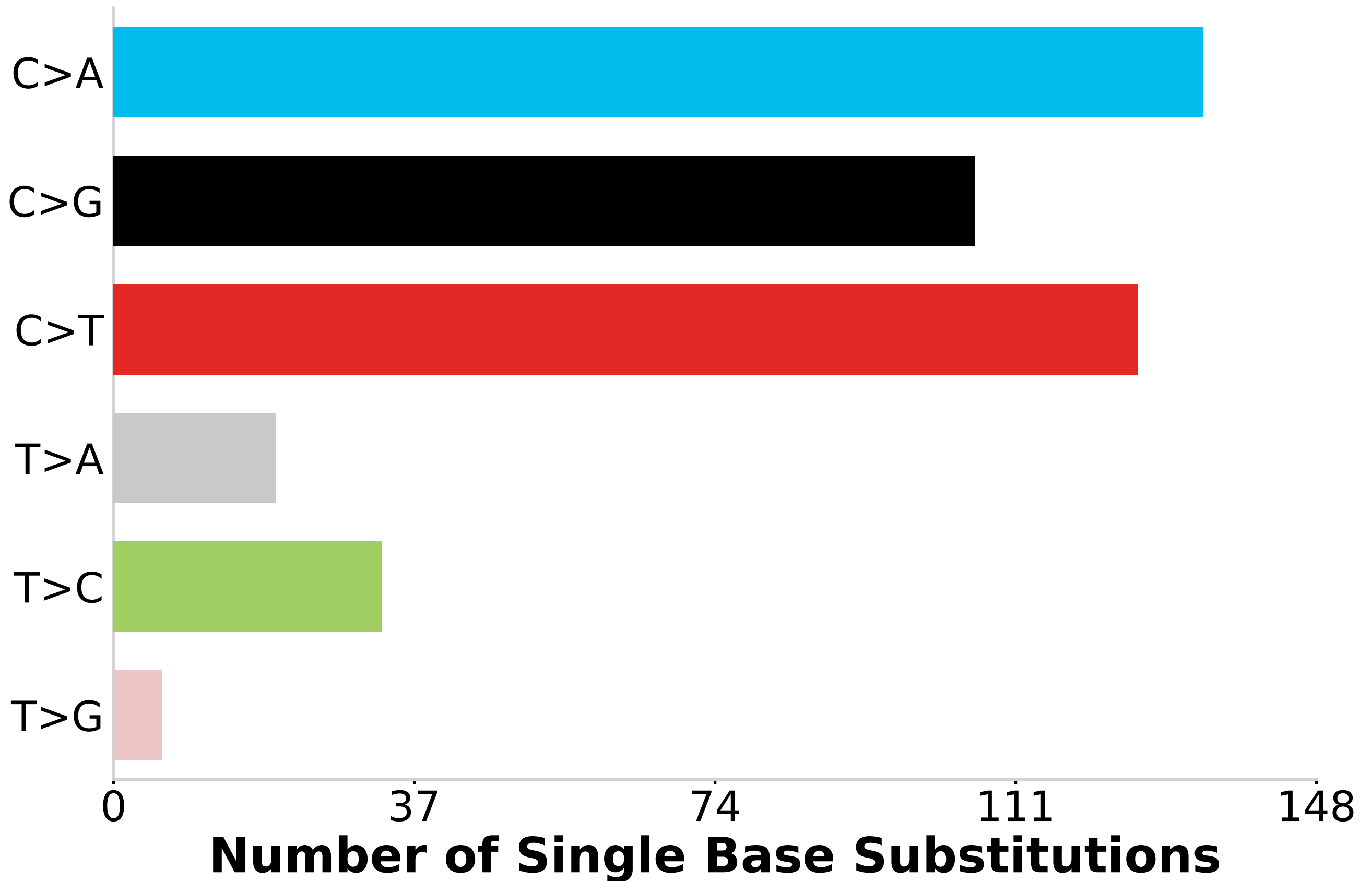
TCGA-XF-A9SW-01A-11D-A42E-08: 64 subs



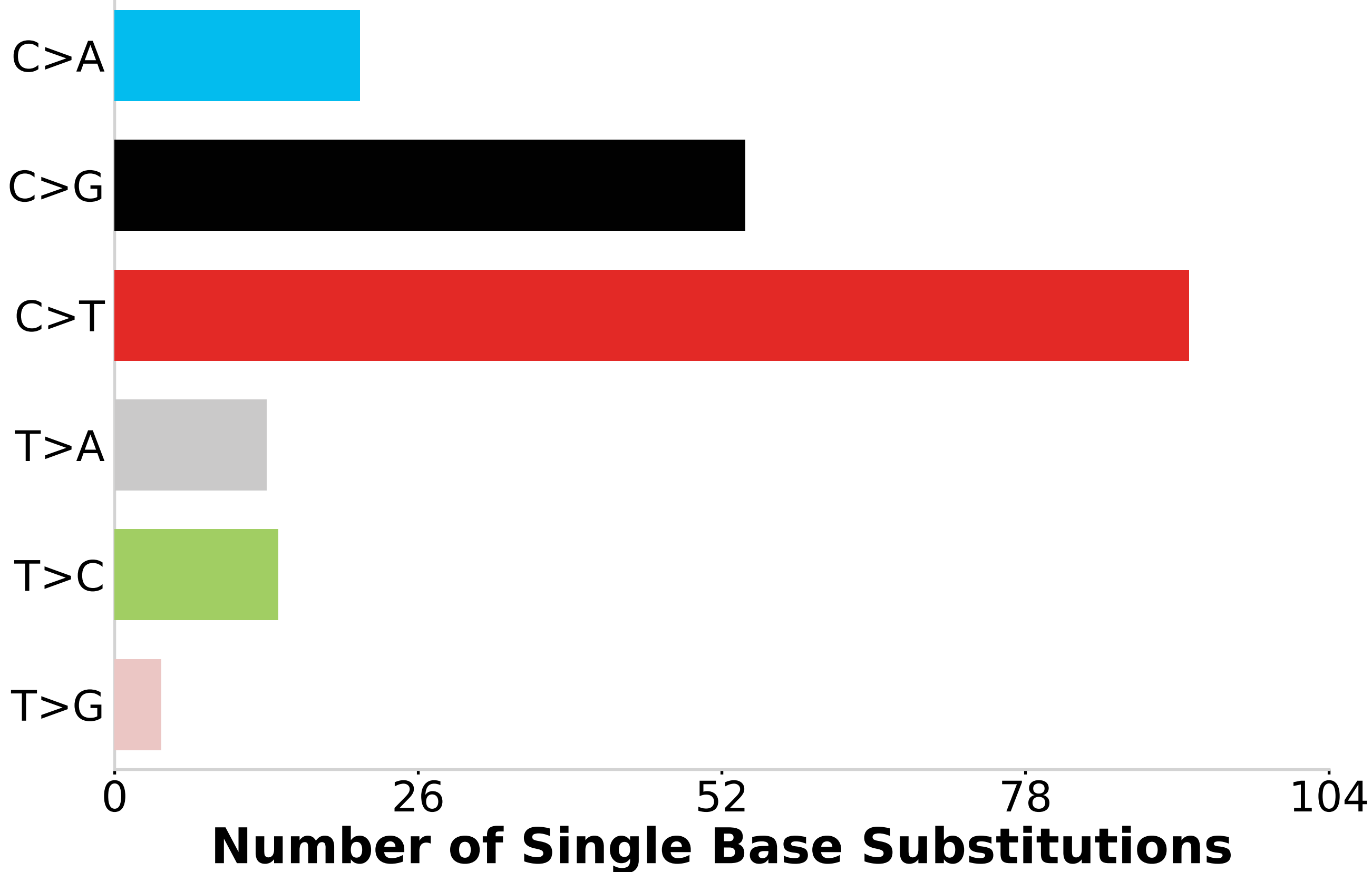
TCGA-XF-A9SX-01A-21D-A391-08: 116 sub



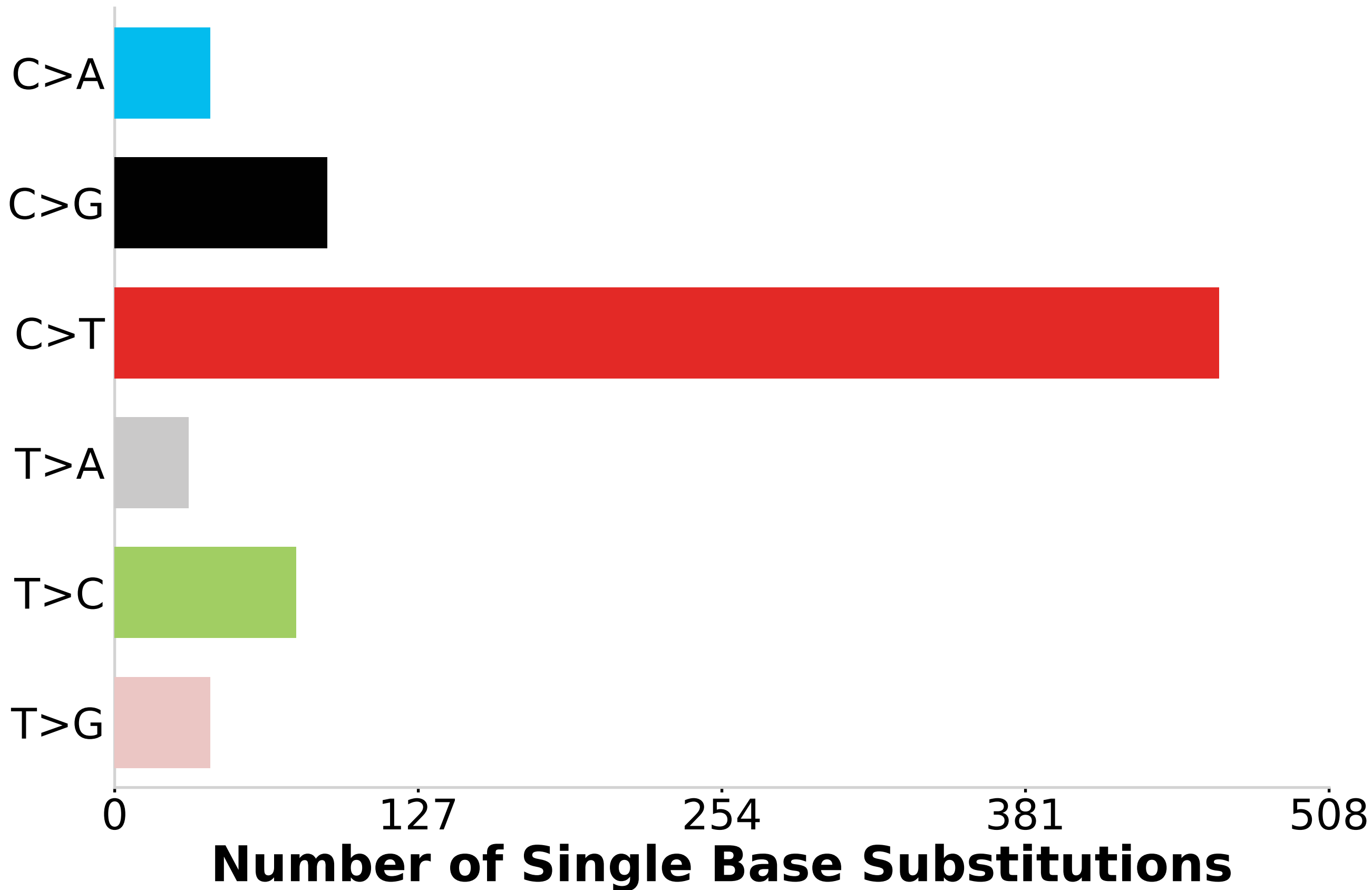
TCGA-XF-A9SY-01A-21D-A42E-08: 425 subs



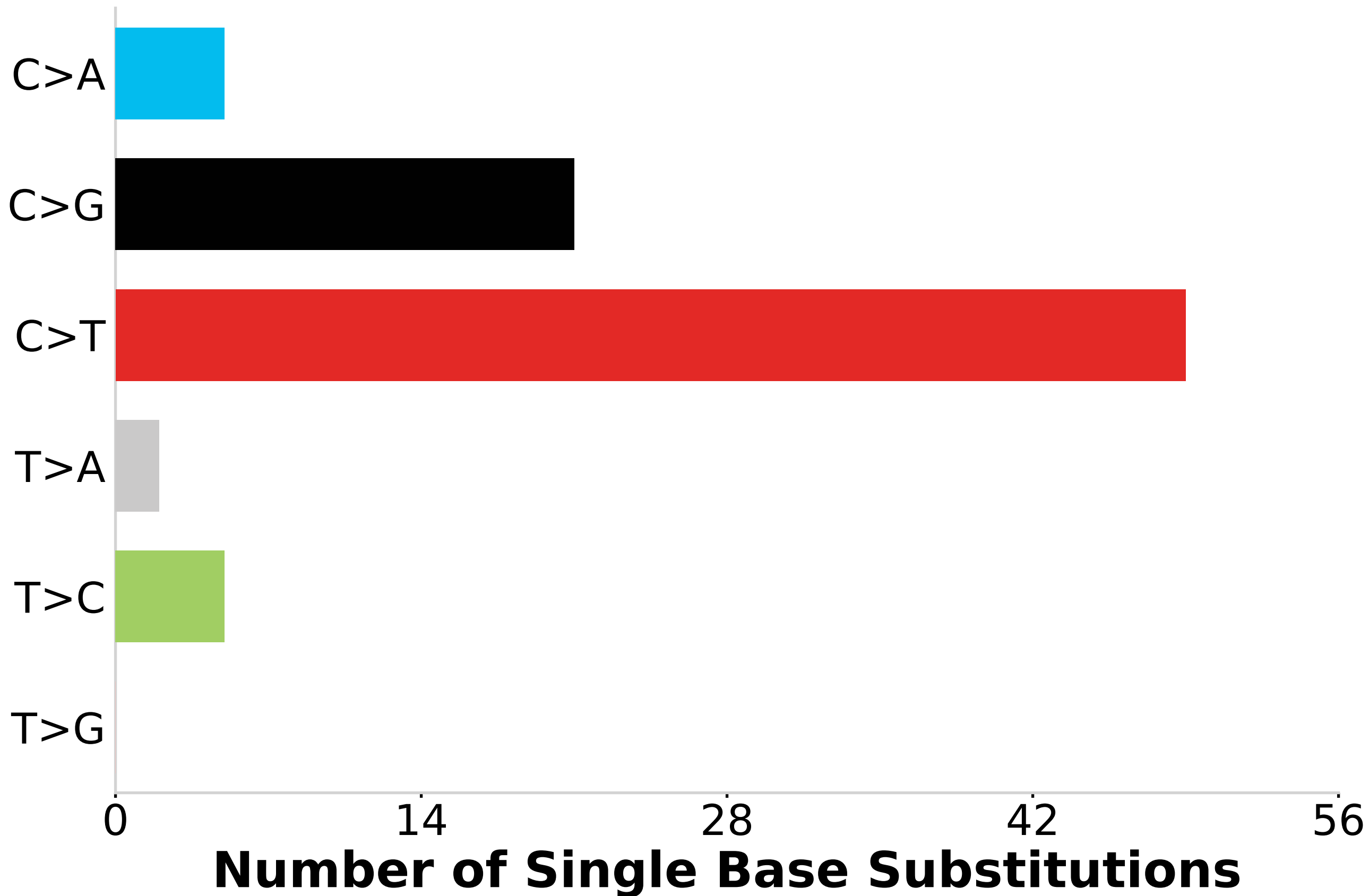
TCGA-XF-A9SZ-01A-11D-A391-08: 198 sub



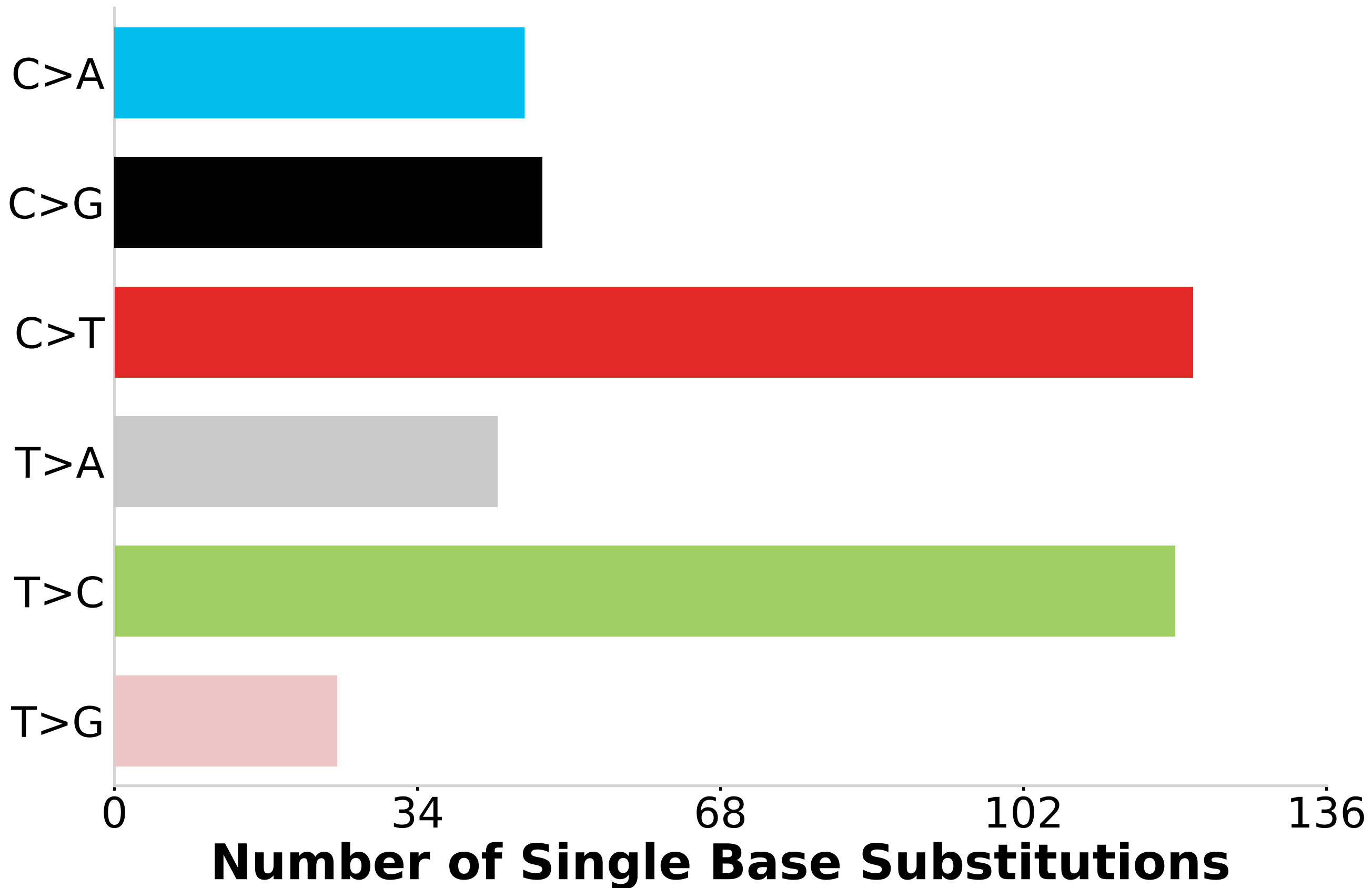
TCGA-XF-A9T0-01A-11D-A391-08: 738 sub



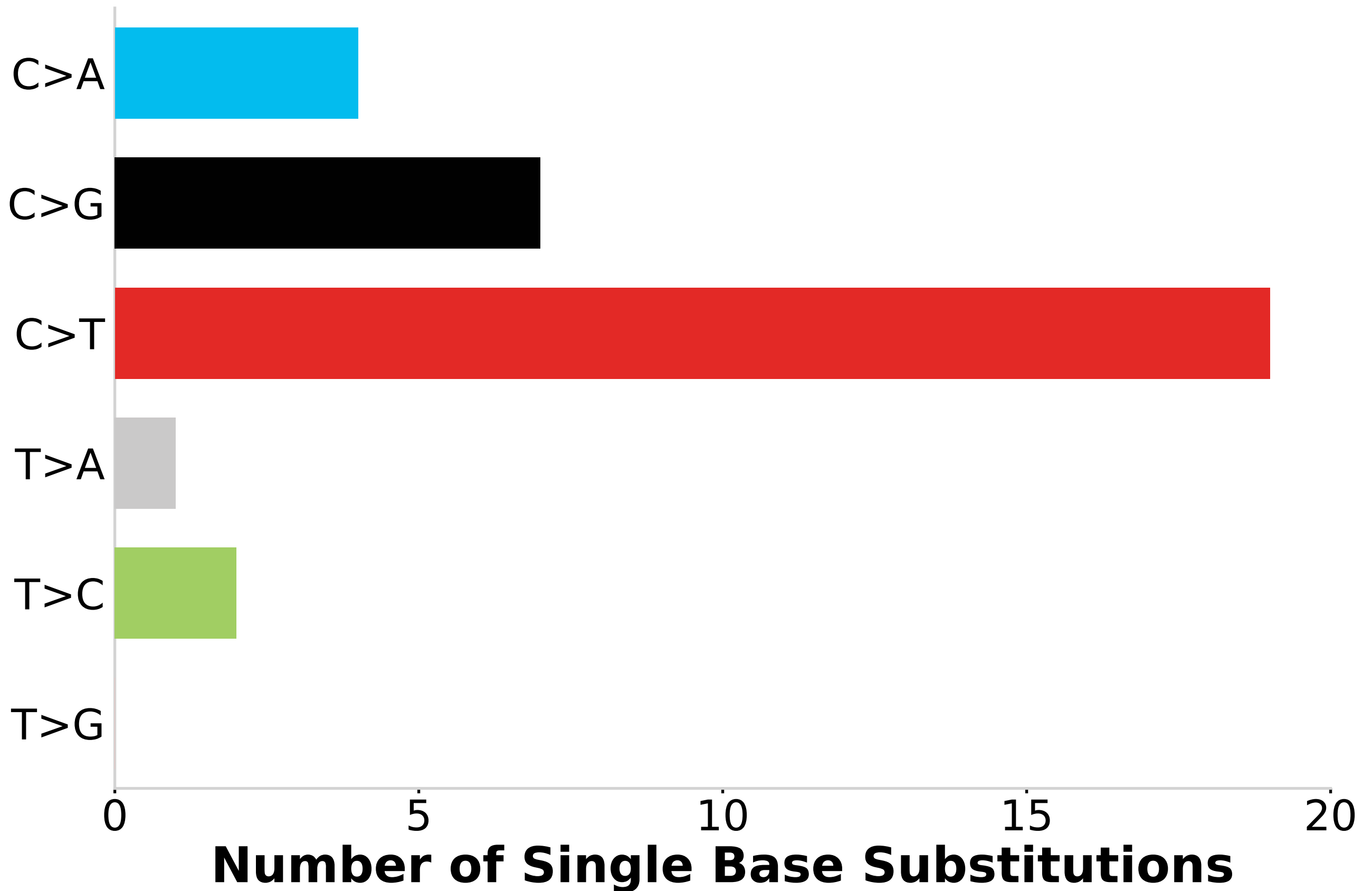
TCGA-XF-A9T2-01A-11D-A42E-08: 82 subs



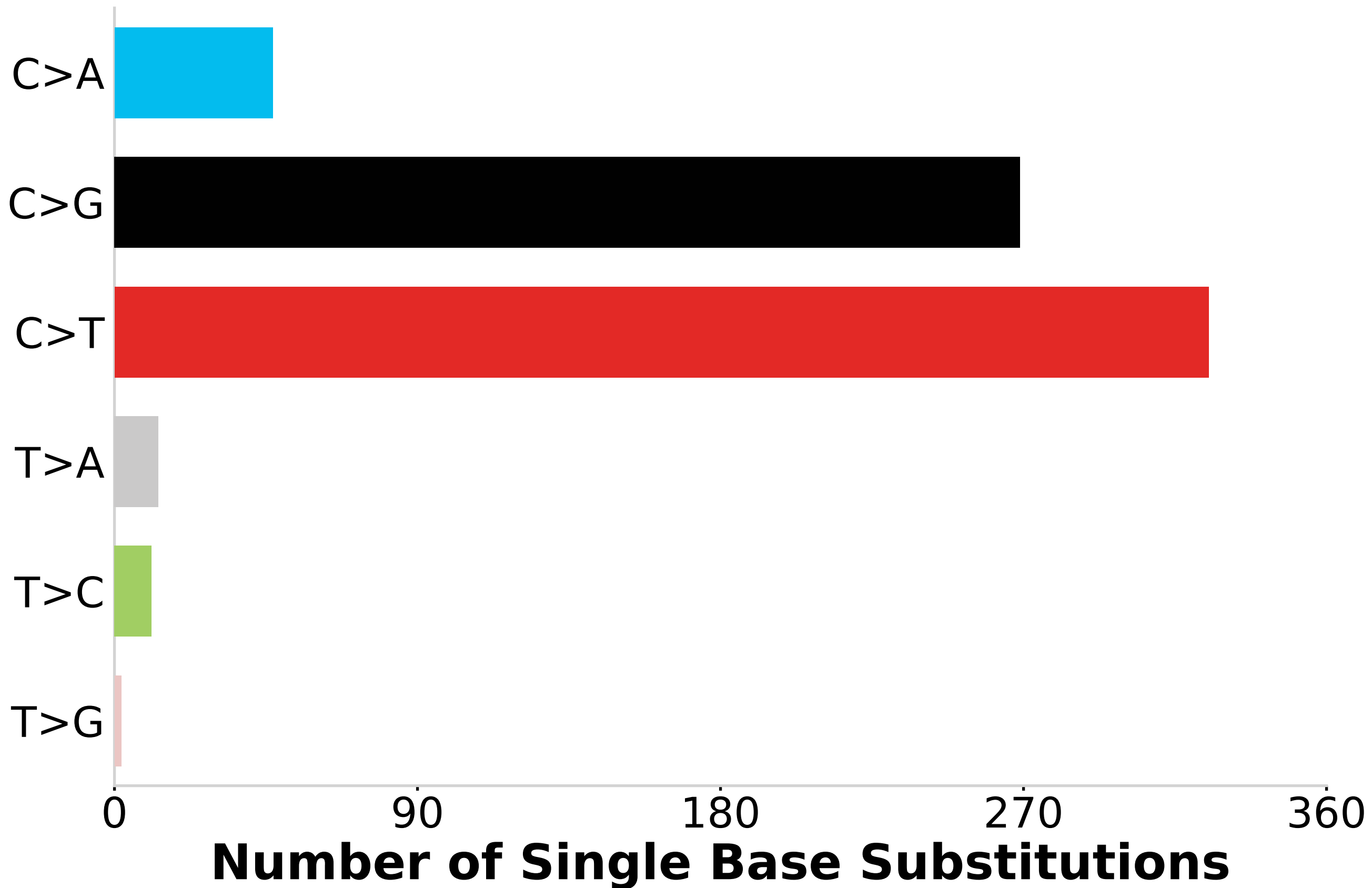
TCGA-XF-A9T3-01A-11D-A42E-08: 402 sub



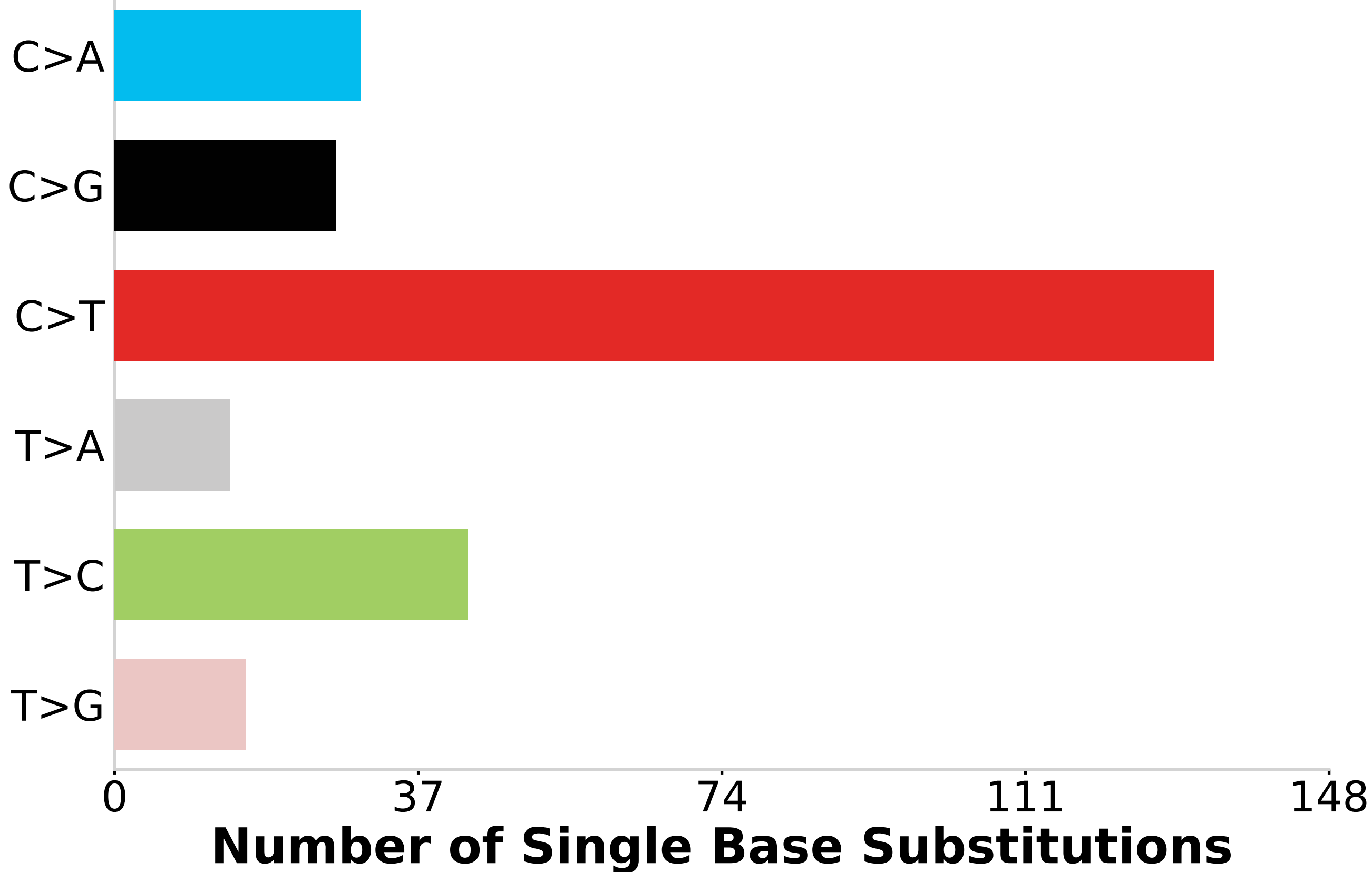
TCGA-XF-A9T4-01A-11D-A391-08: 33 subs



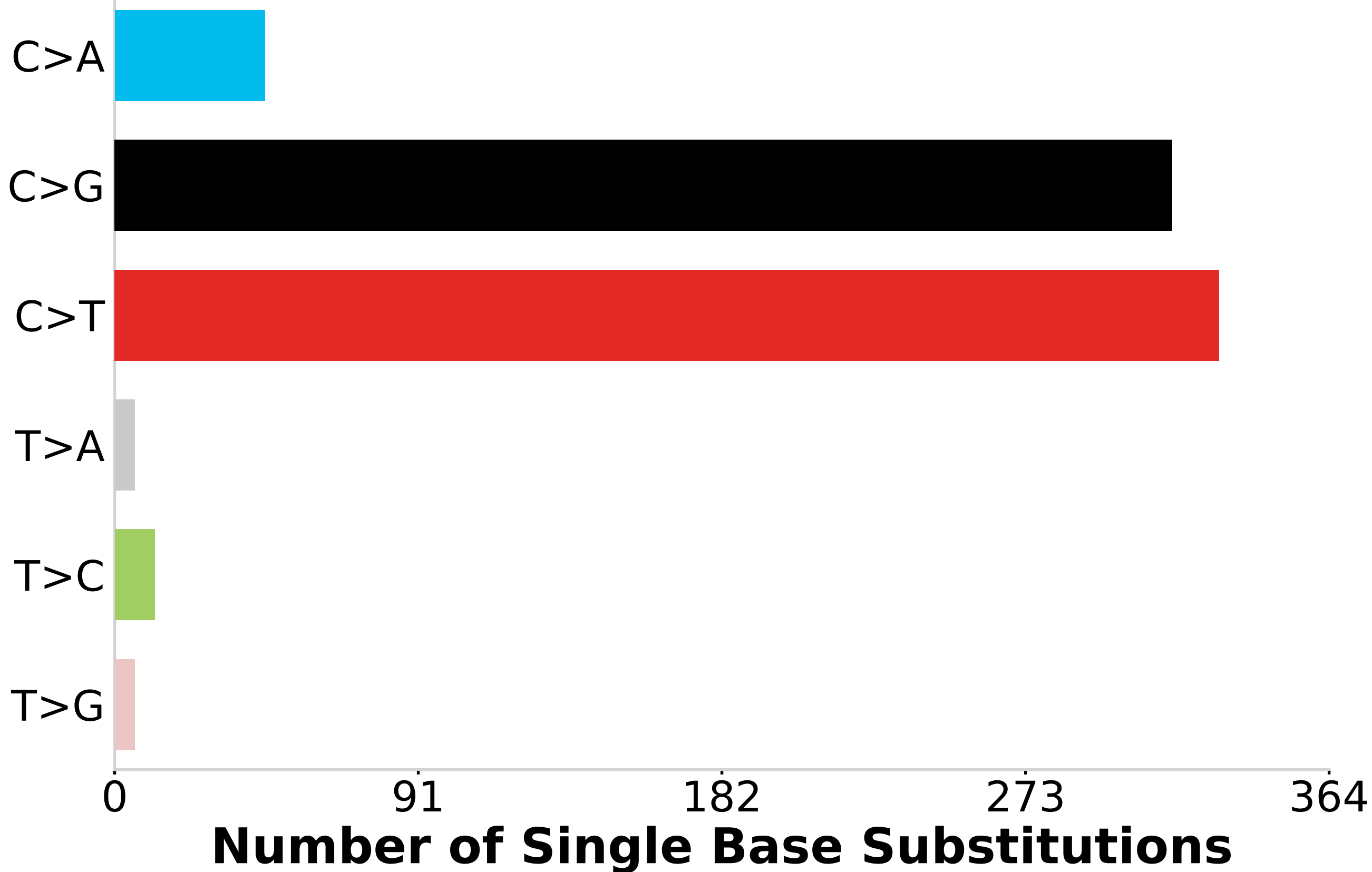
TCGA-XF-A9T5-01A-11D-A42E-08: 667 substitutions



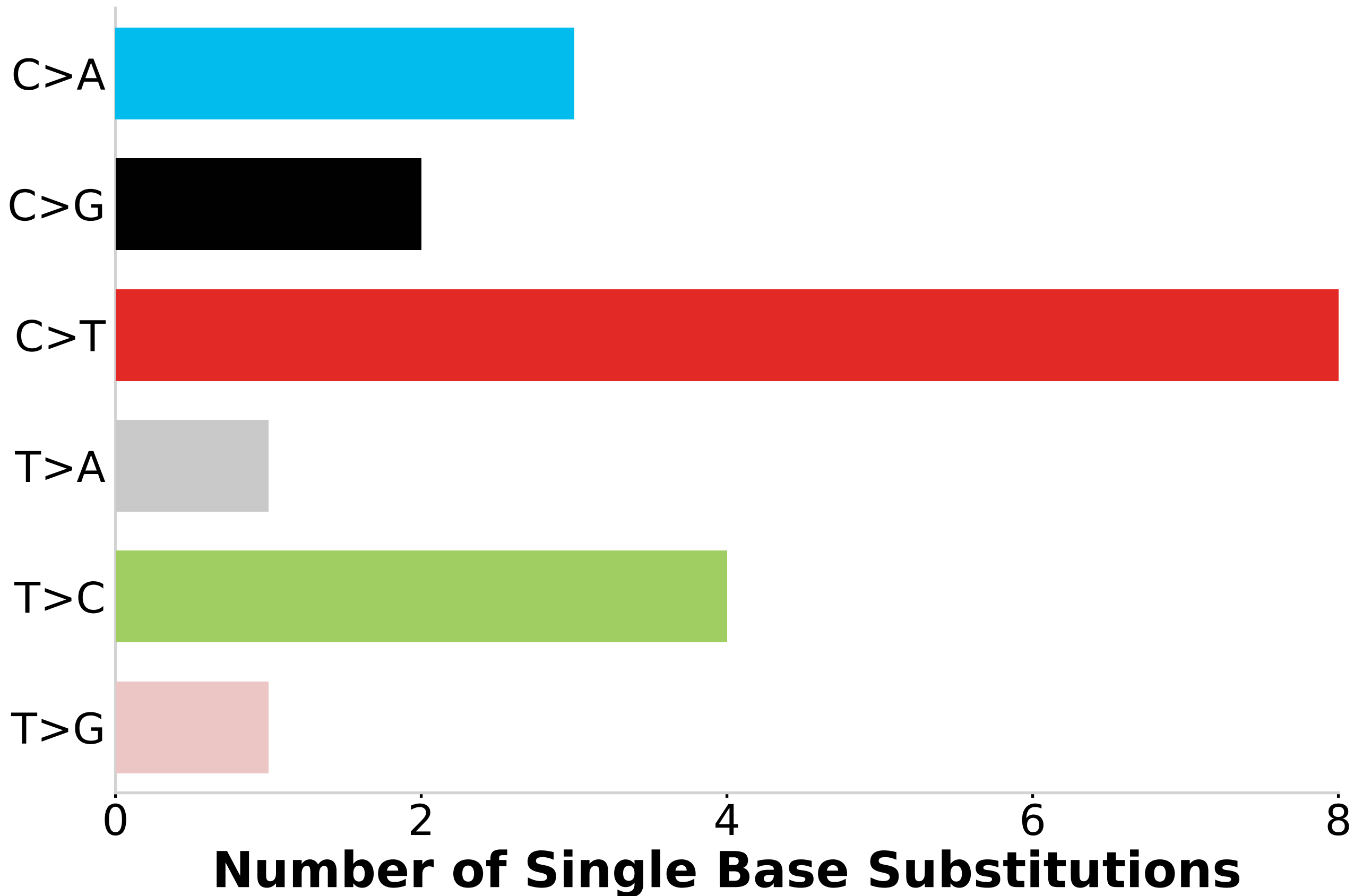
TCGA-XF-A9T6-01A-11D-A42E-08: 264 sub



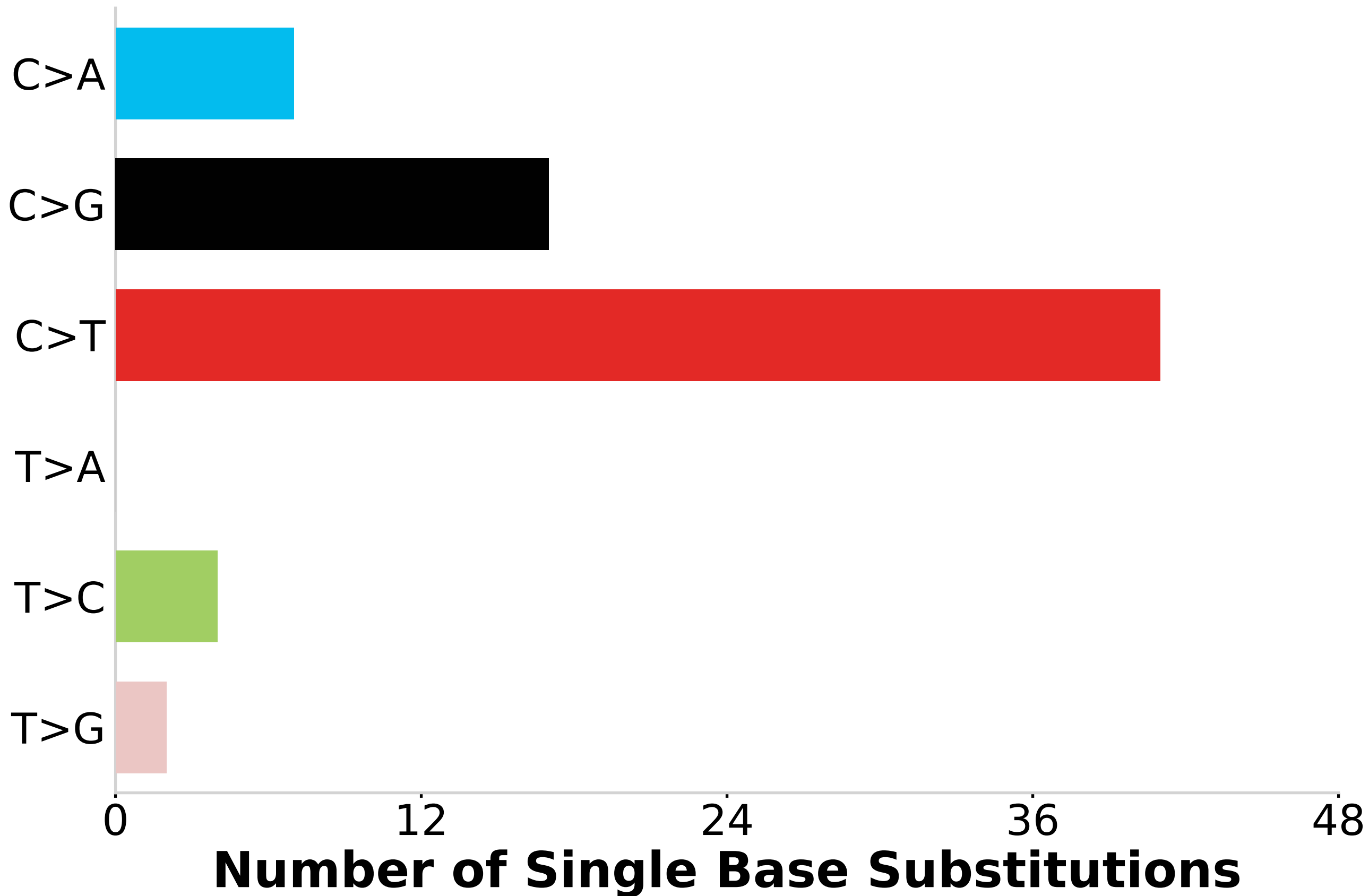
TCGA-XF-A9T8-01A-11D-A391-08: 717 sub



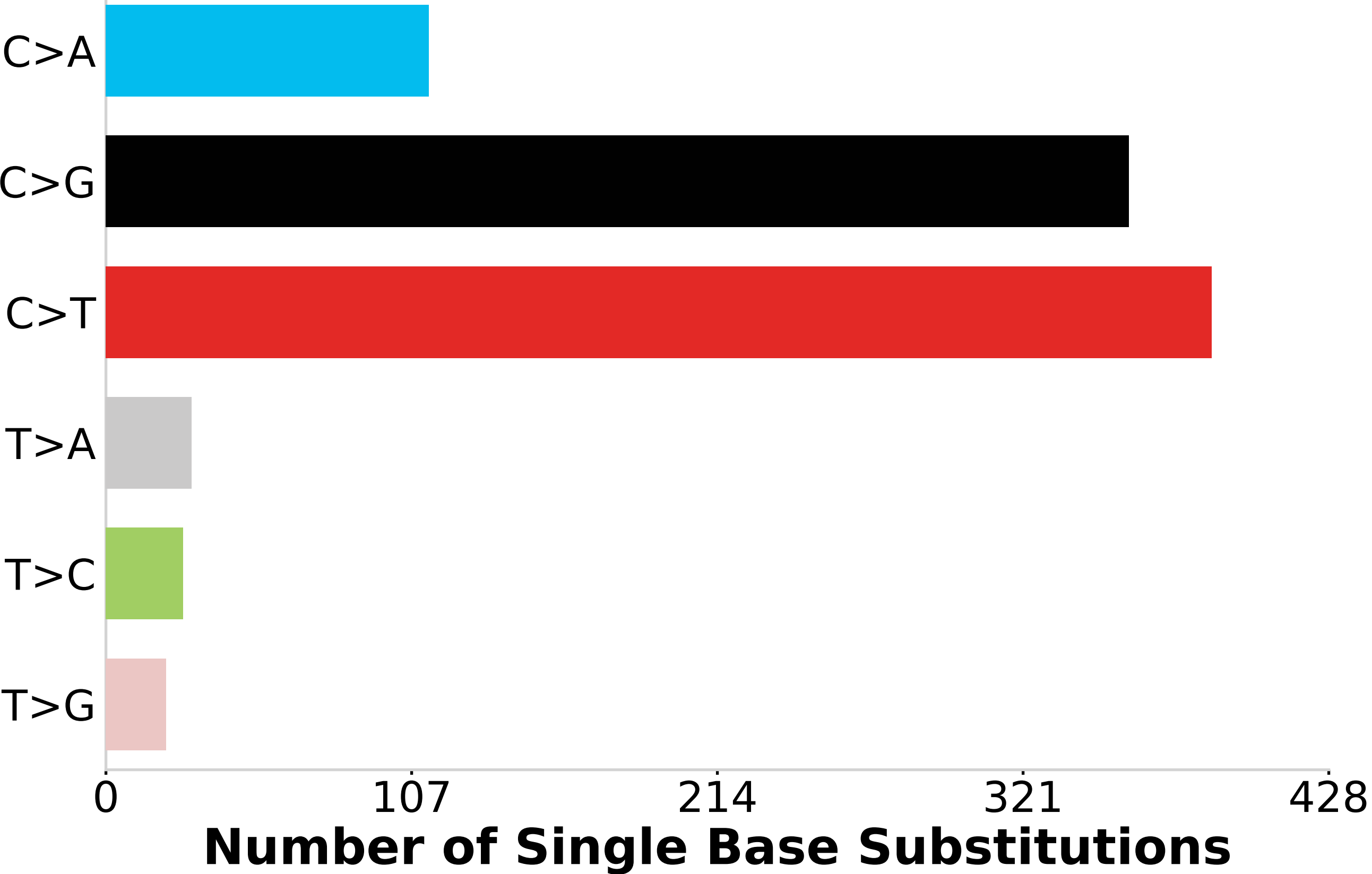
TCGA-XF-AAME-01A-12D-A42E-08: 19 subs



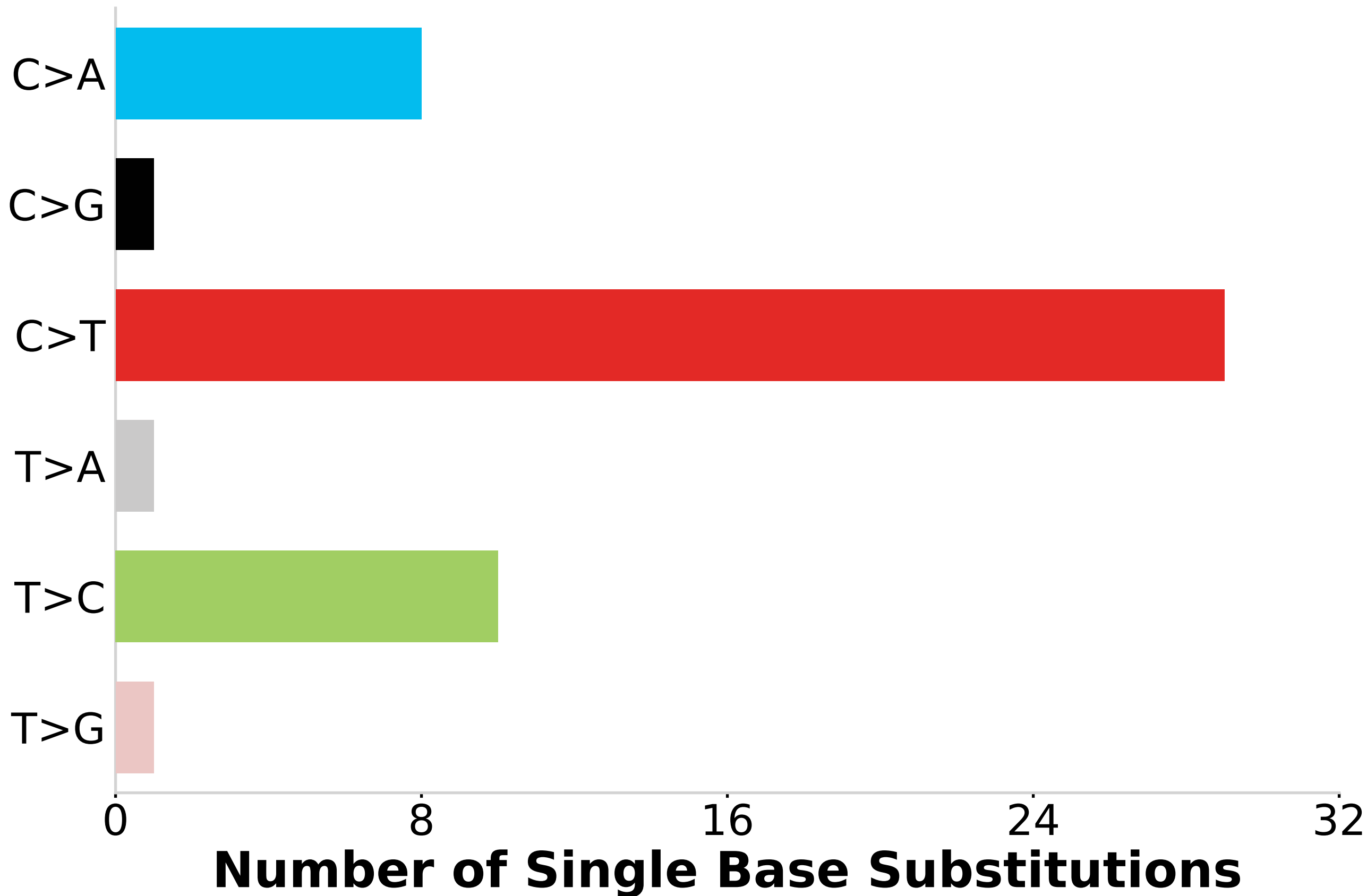
TCGA-XF-AAMF-01A-21D-A42E-08: 71 subs



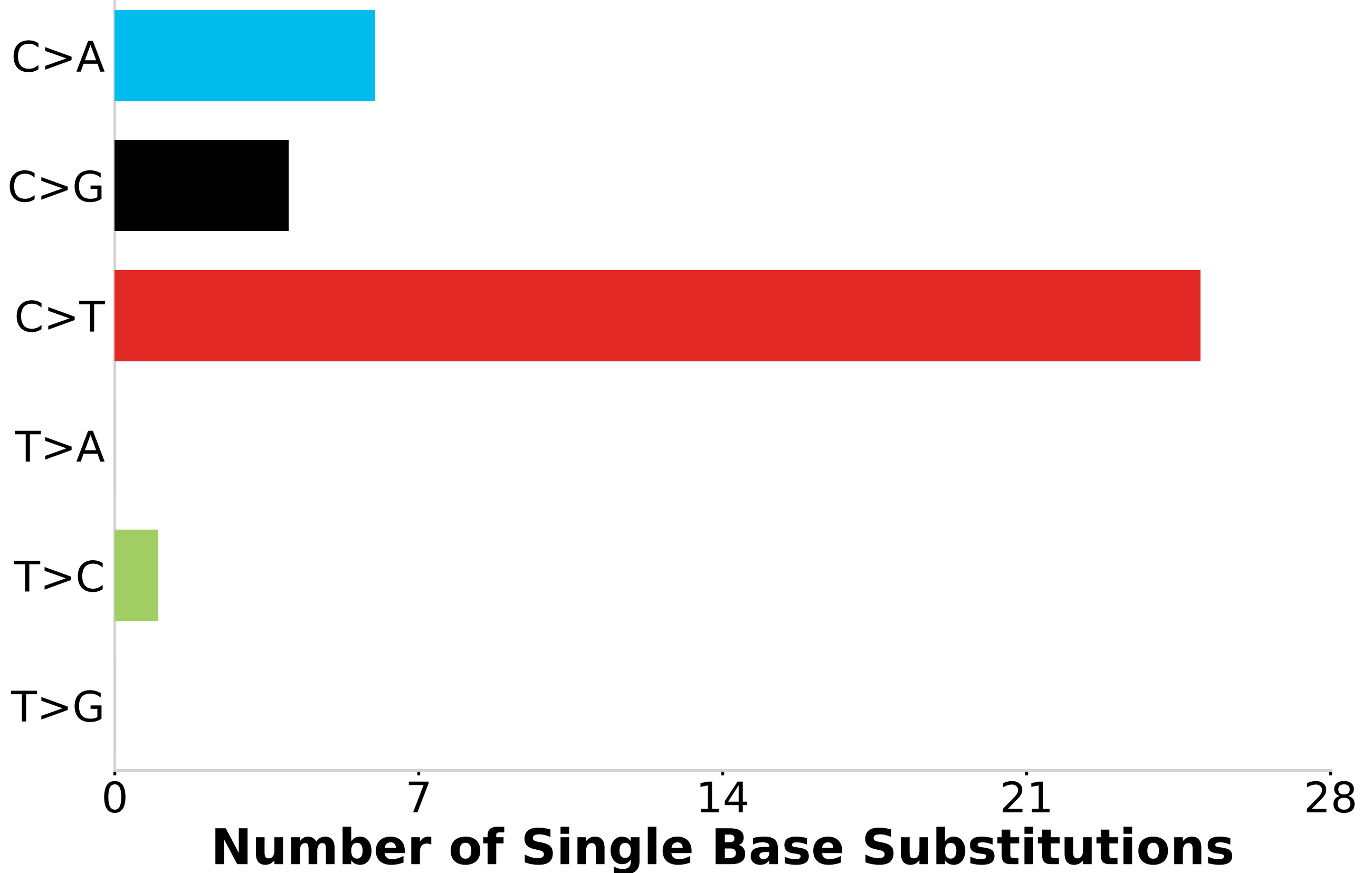
TCGA-XF-AAMG-01A-11D-A42E-08: 936 sub



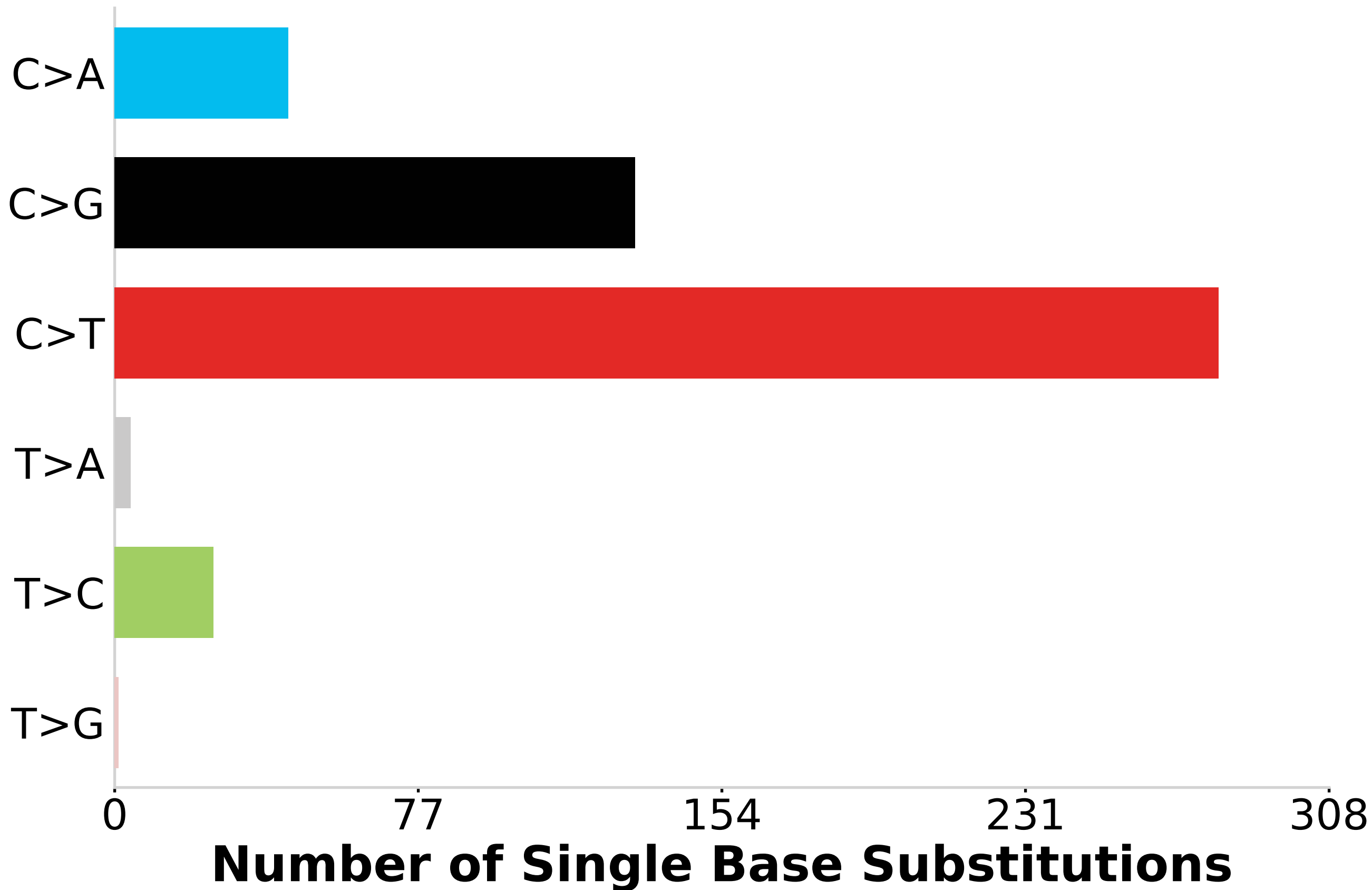
TCGA-XF-AAMH-01A-11D-A42E-08: 50 subs



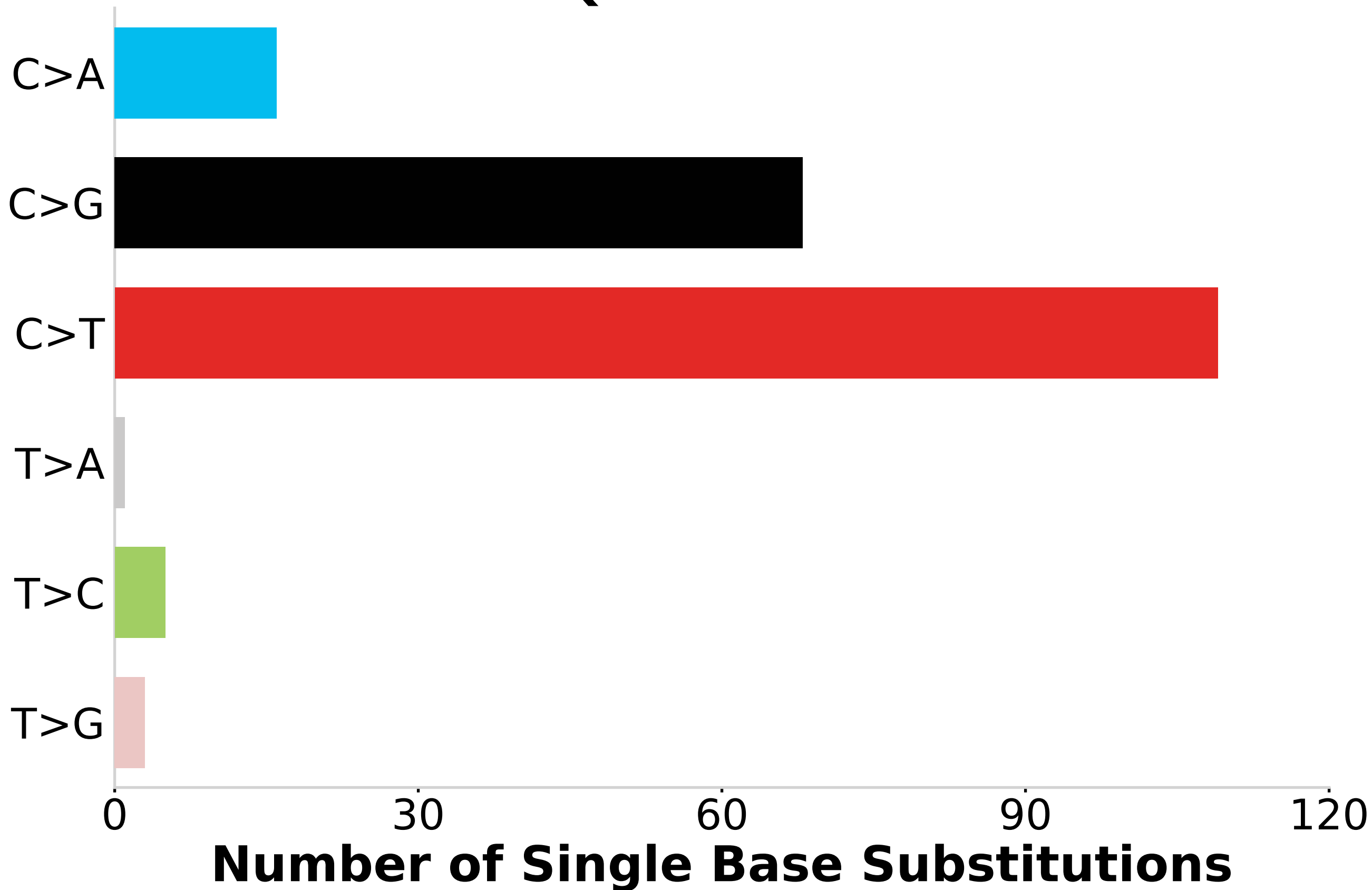
TCGA-XF-AAMJ-01A-11D-A42E-08: 36 subs



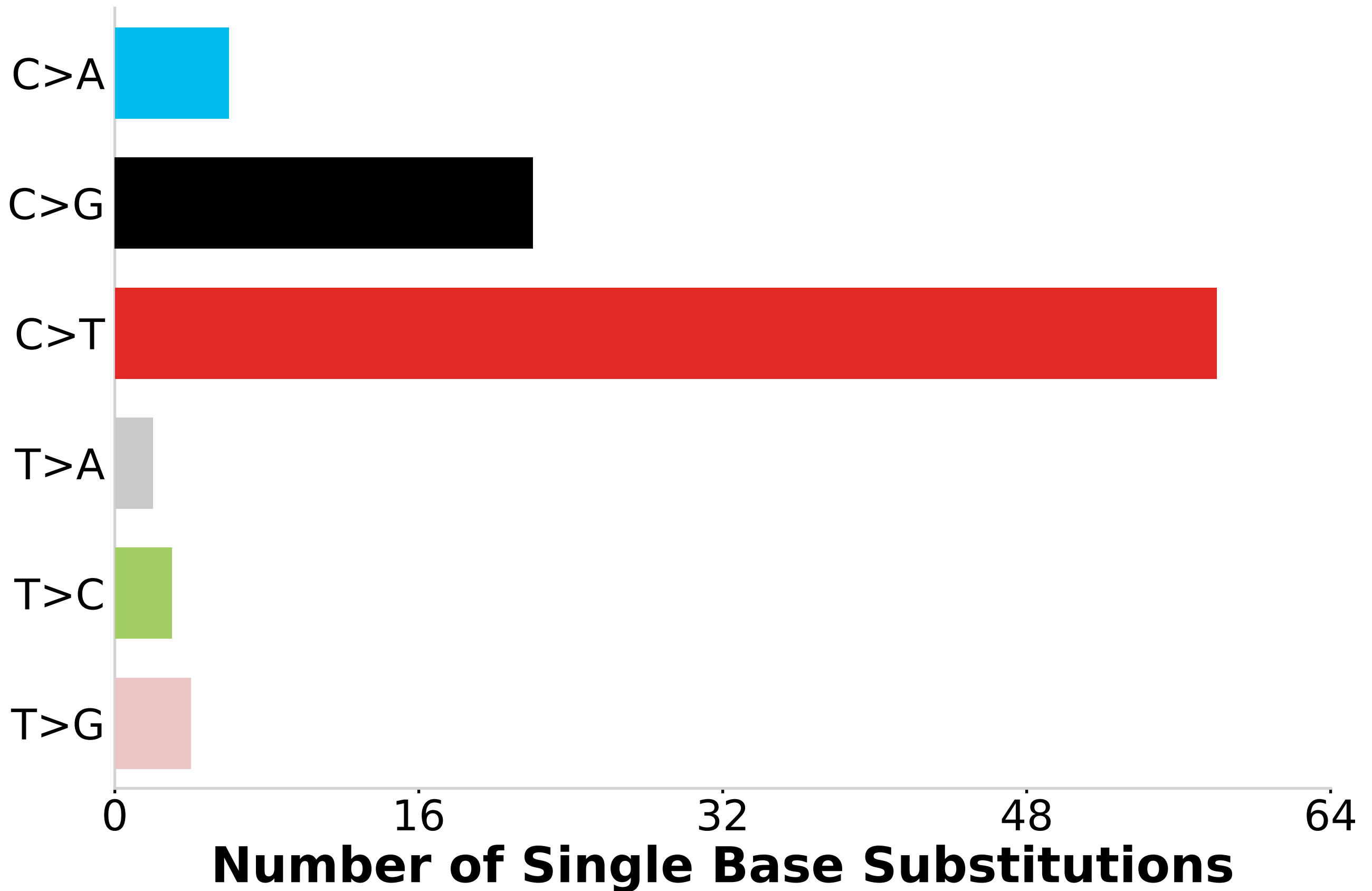
TCGA-XF-AAML-01A-11D-A42E-08: 486 sub



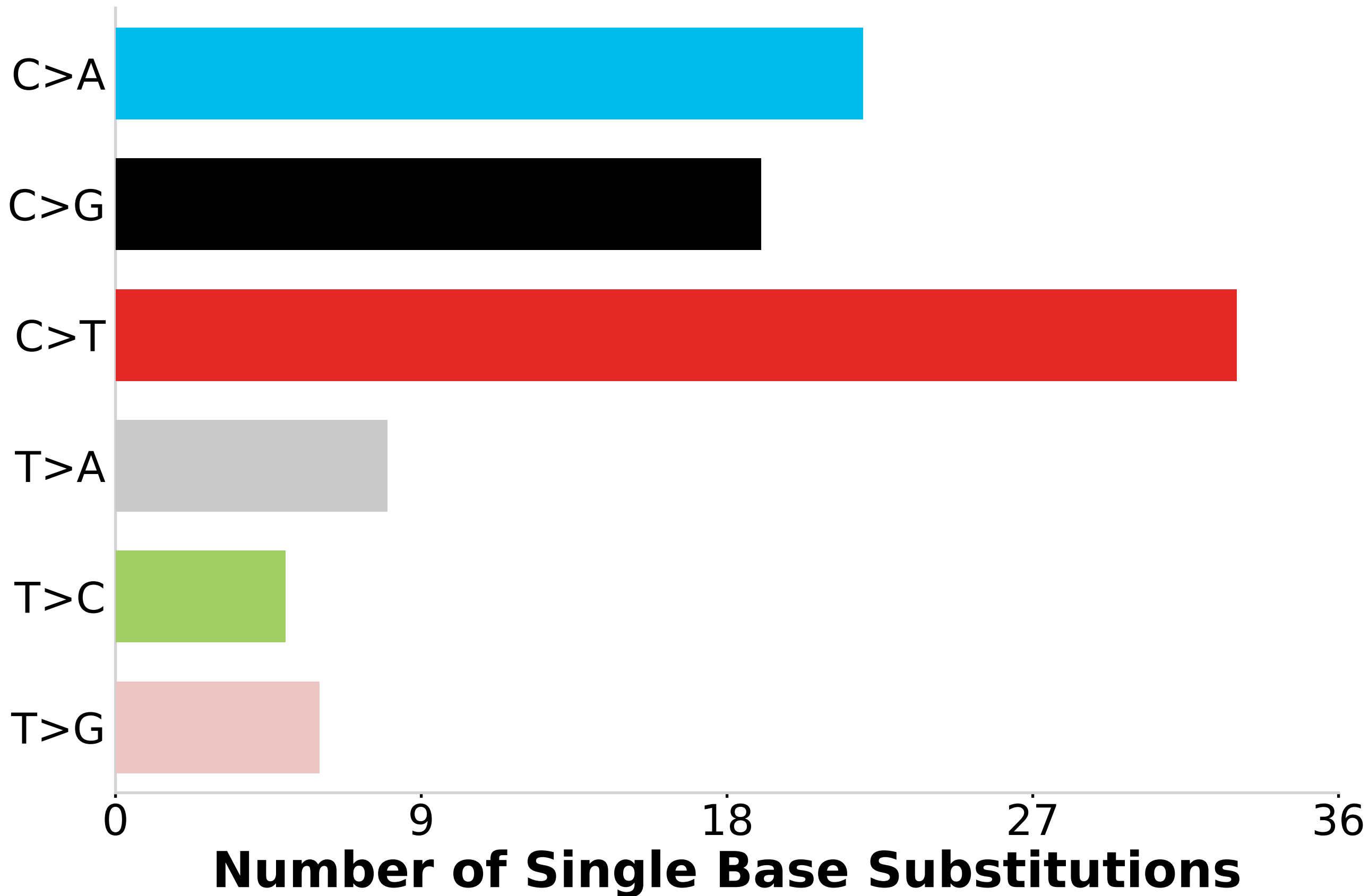
TCGA-XF-AAMQ-01A-11D-A42E-08: 202 substitutions



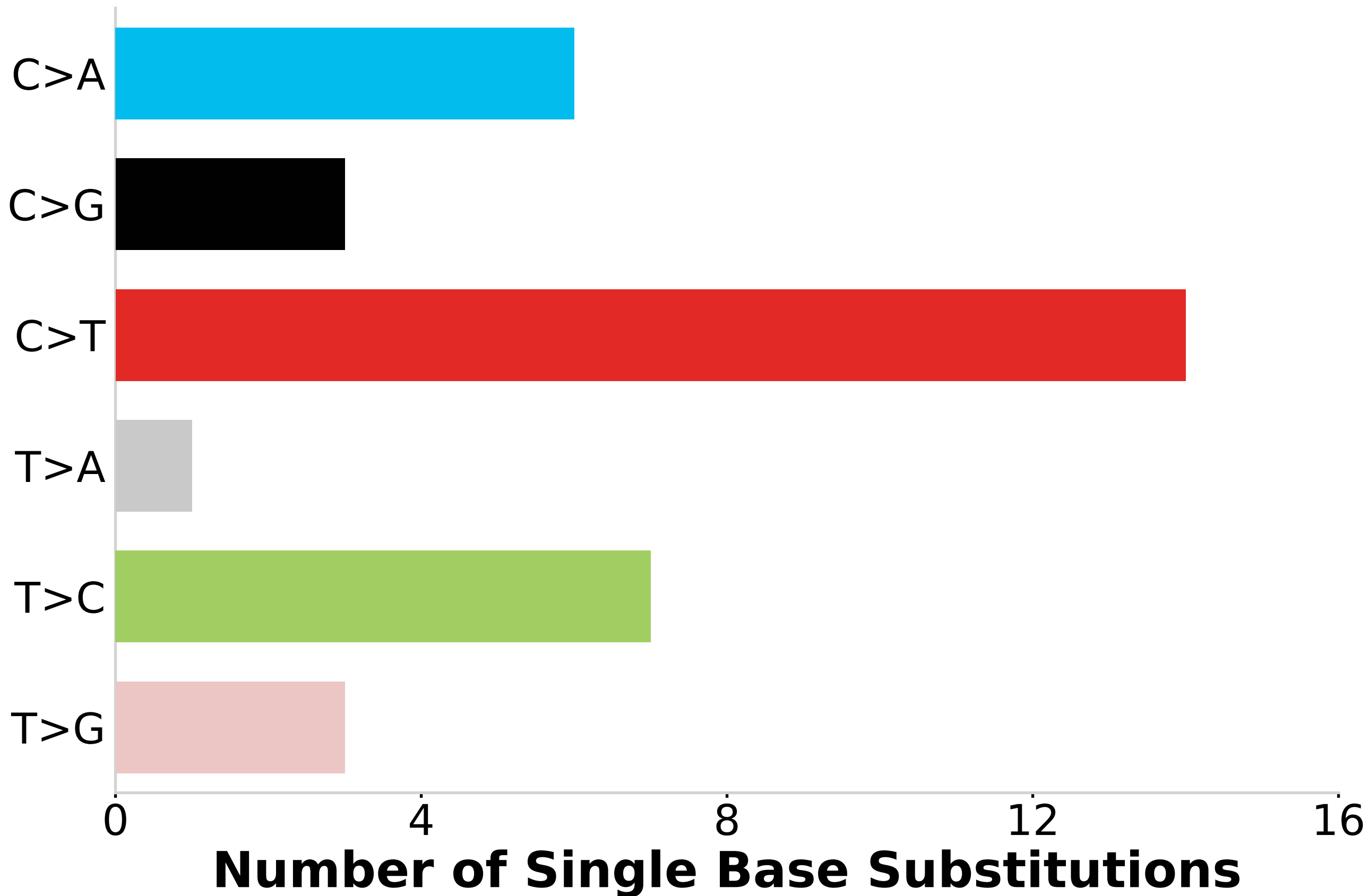
TCGA-XF-AAMR-01A-31D-A42E-08: 95 subs



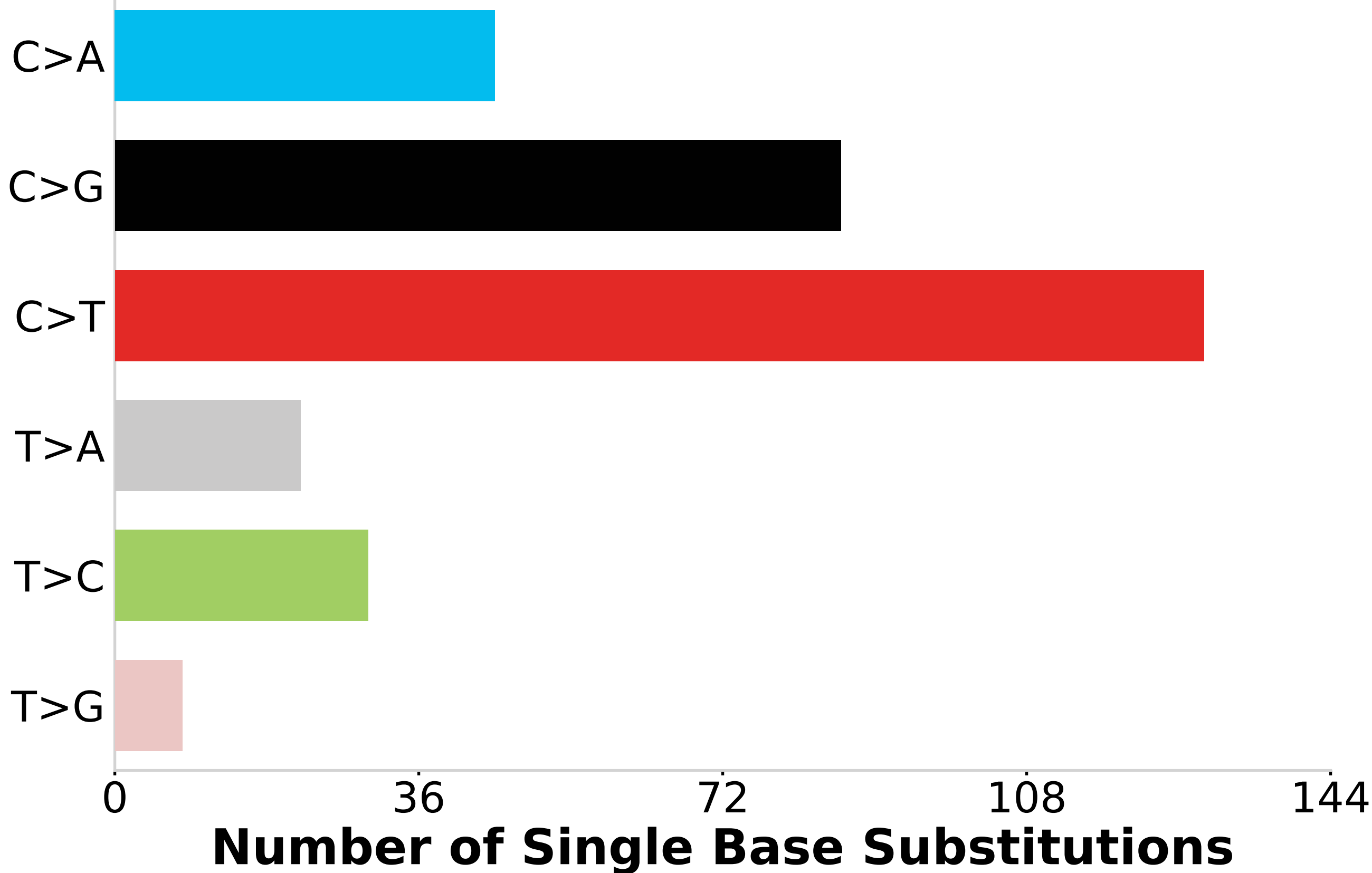
TCGA-XF-AAMT-01A-11D-A42E-08: 93 subs



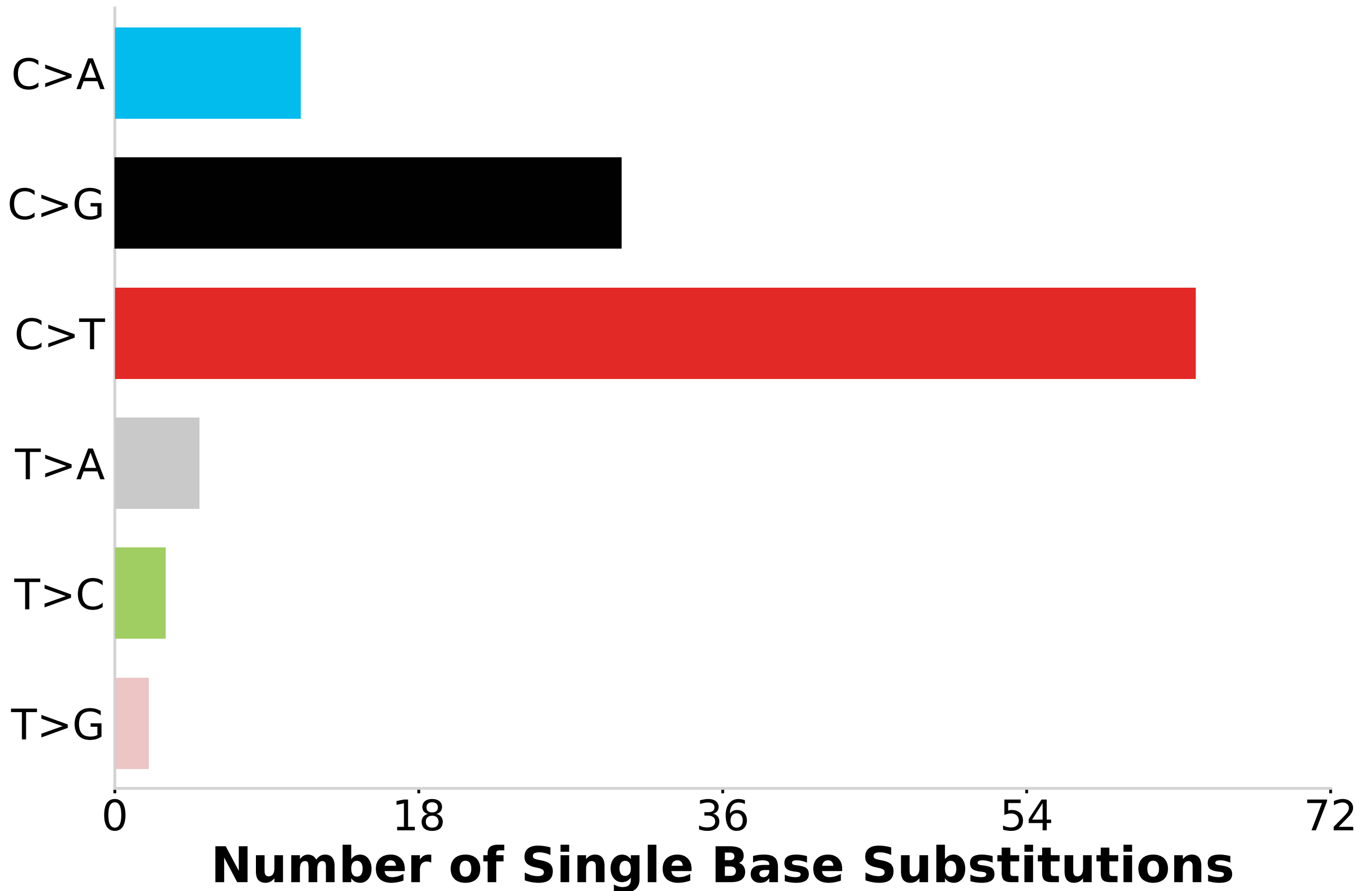
TCGA-XF-AAMW-01A-11D-A42E-08: 34 sub



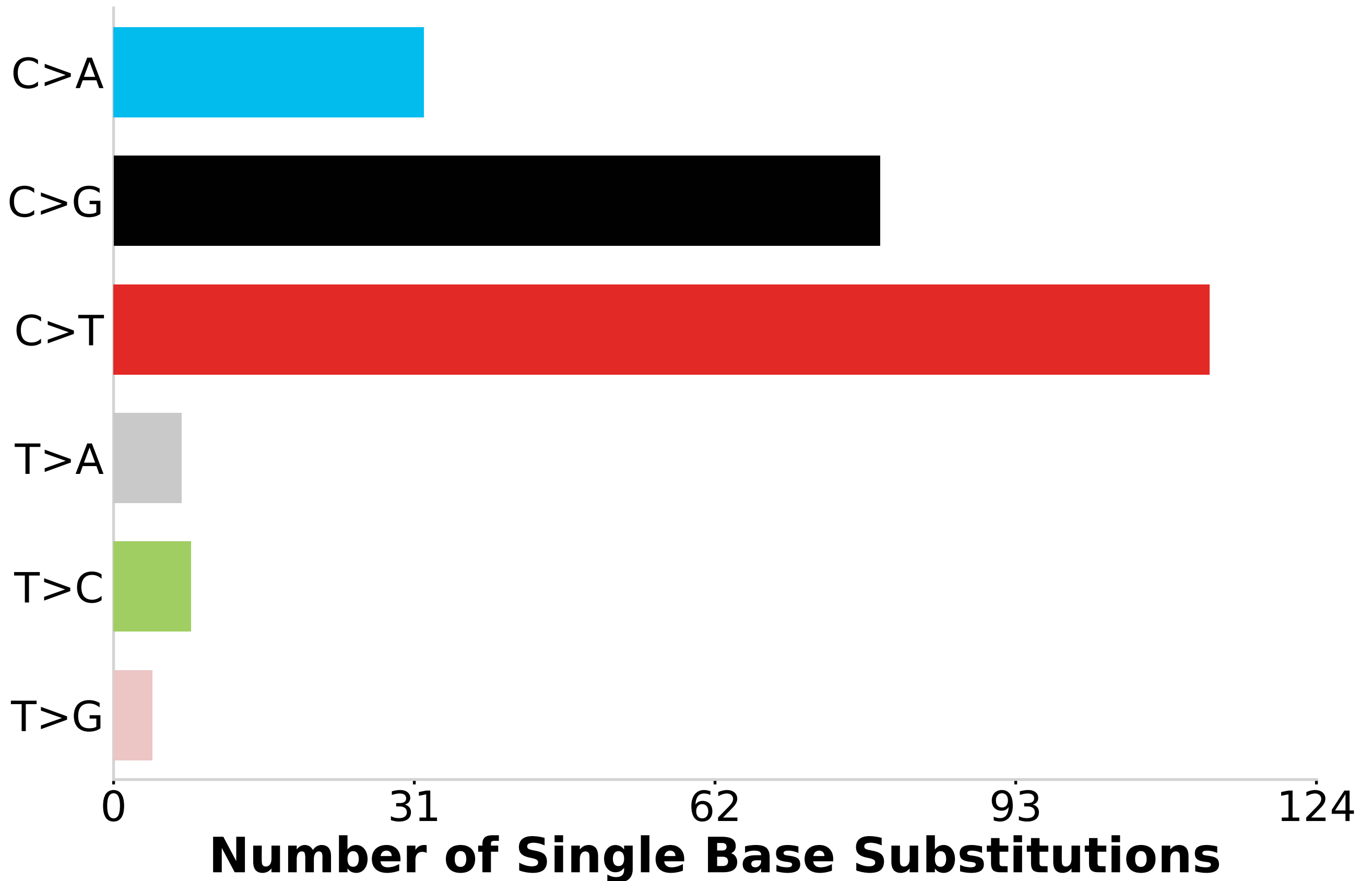
TCGA-XF-AAMX-01A-11D-A42E-08: 320 sub



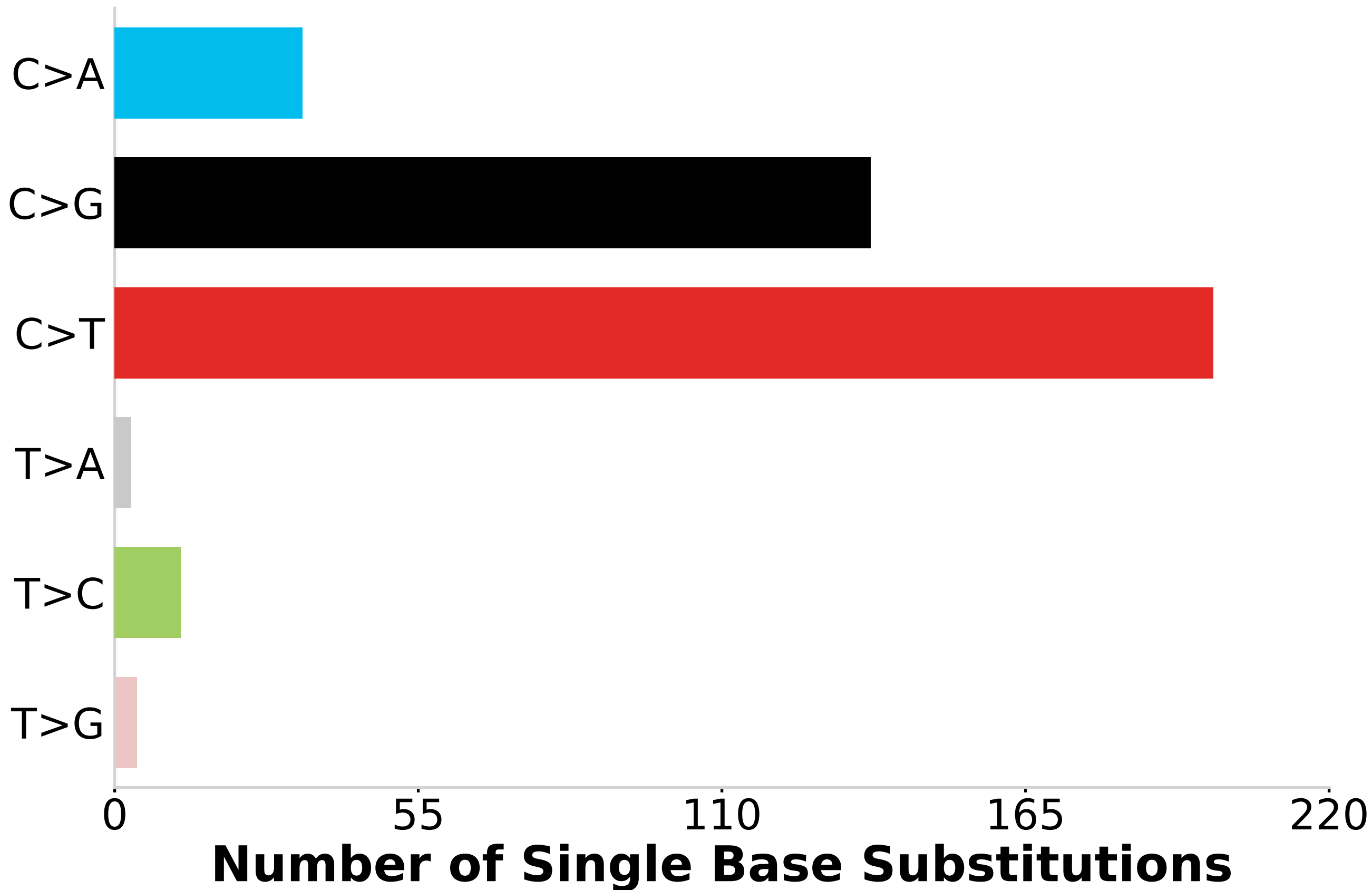
TCGA-XF-AAMY-01A-11D-A42E-08: 115 sub



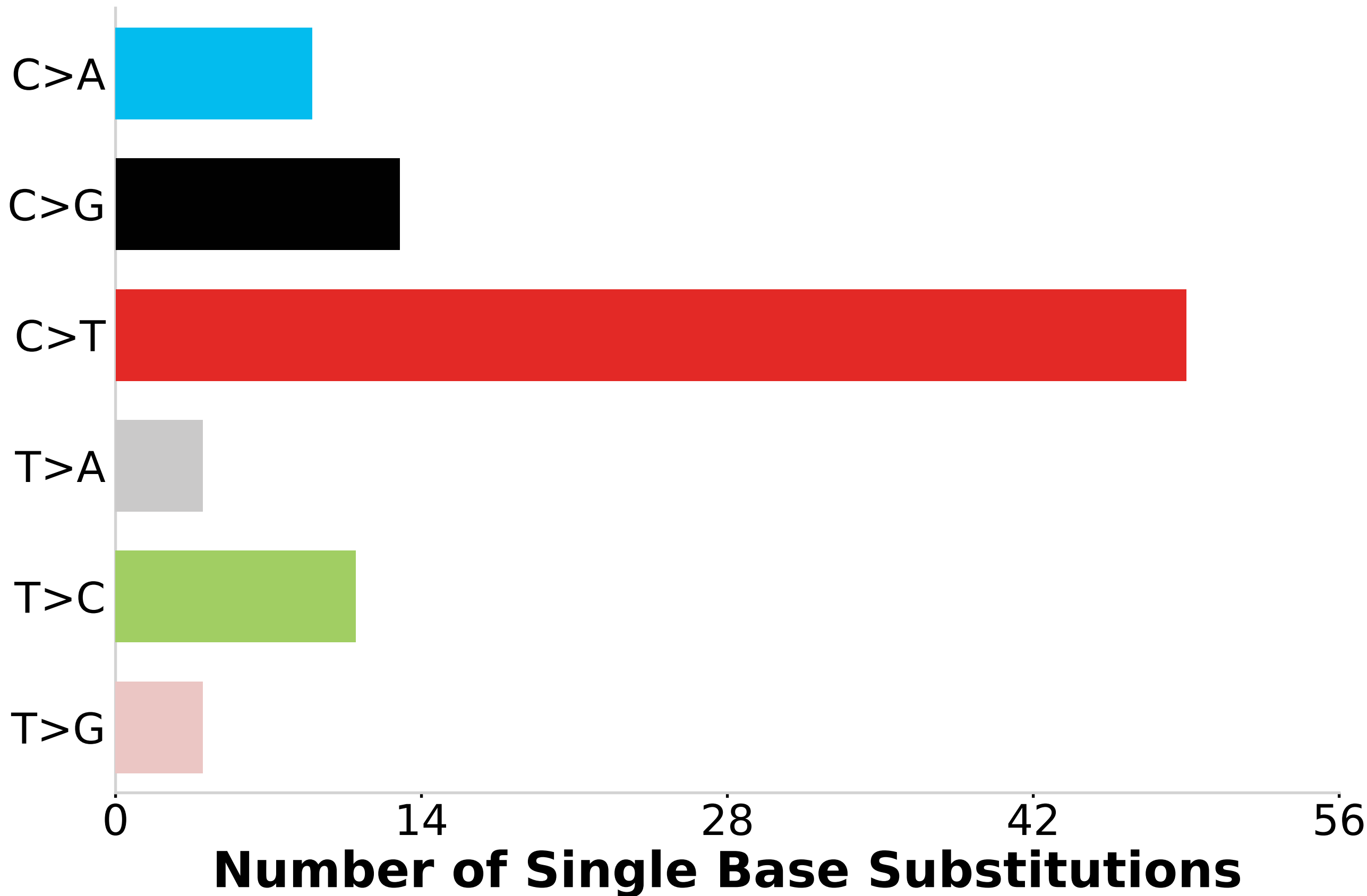
TCGA-XF-AAMZ-01A-11D-A42E-08: 243 sub



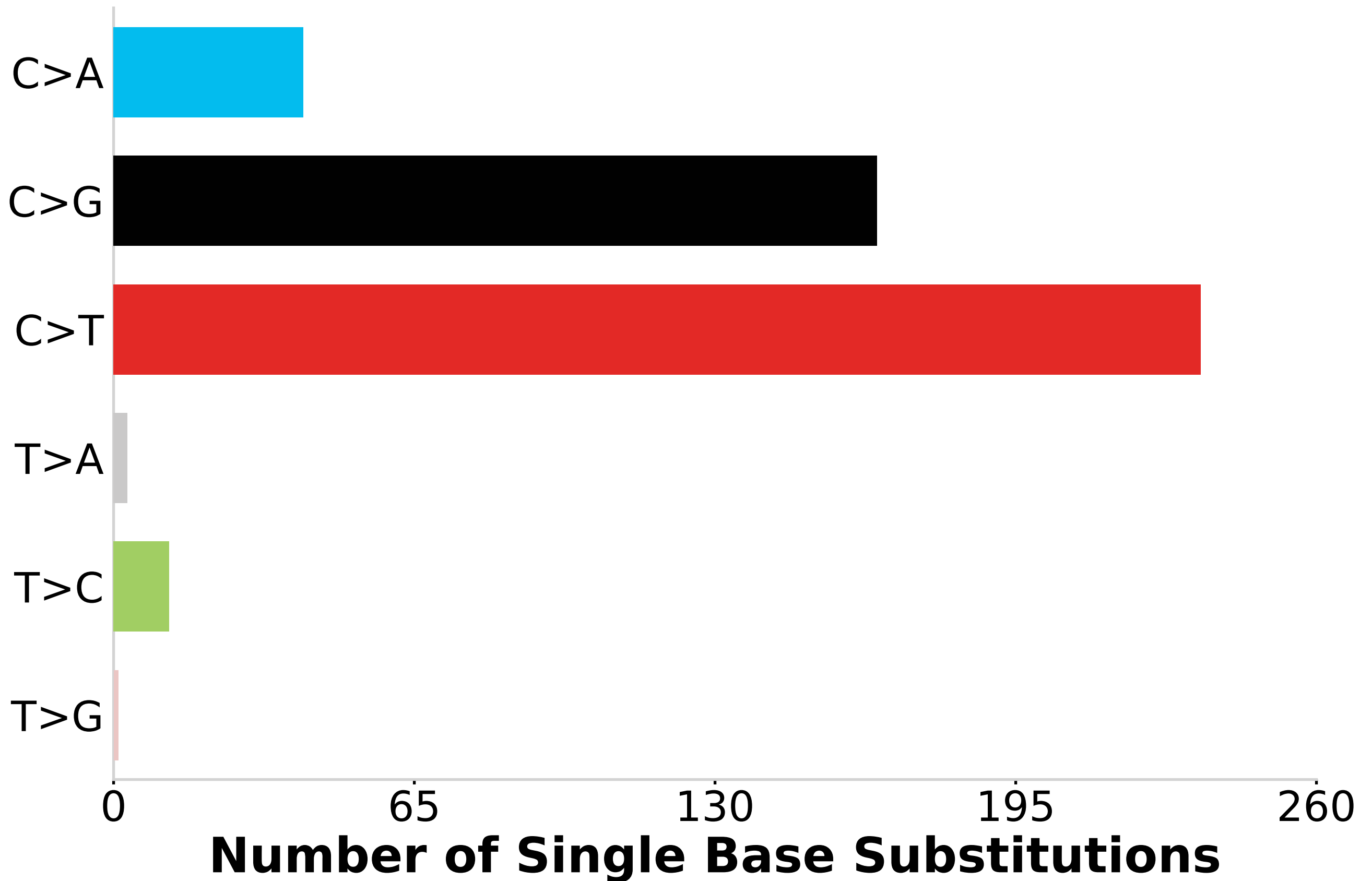
TCGA-XF-AAN0-01A-11D-A42E-08: 389 sub



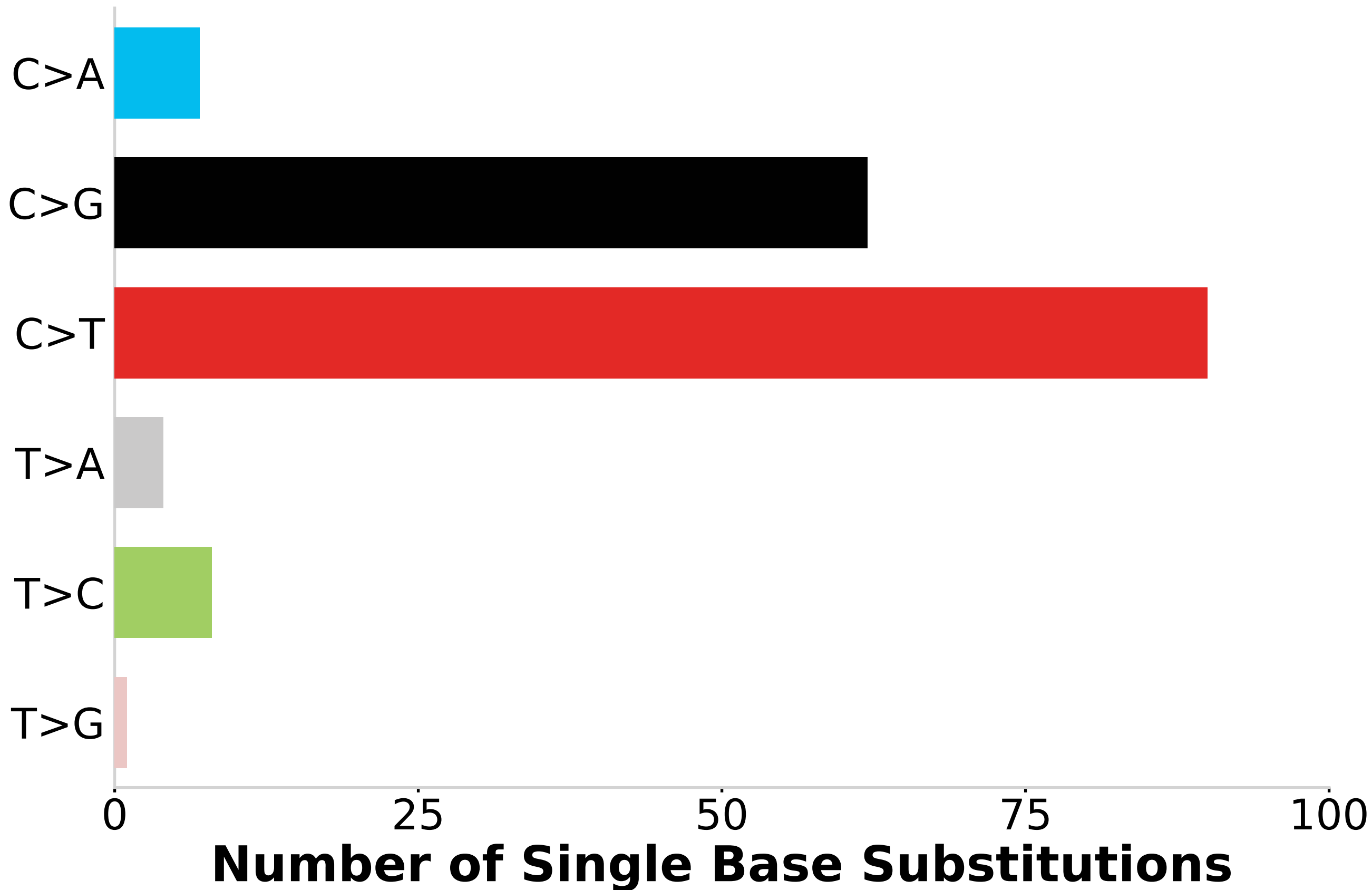
TCGA-XF-AAN1-01A-31D-A42E-08: 90 subs



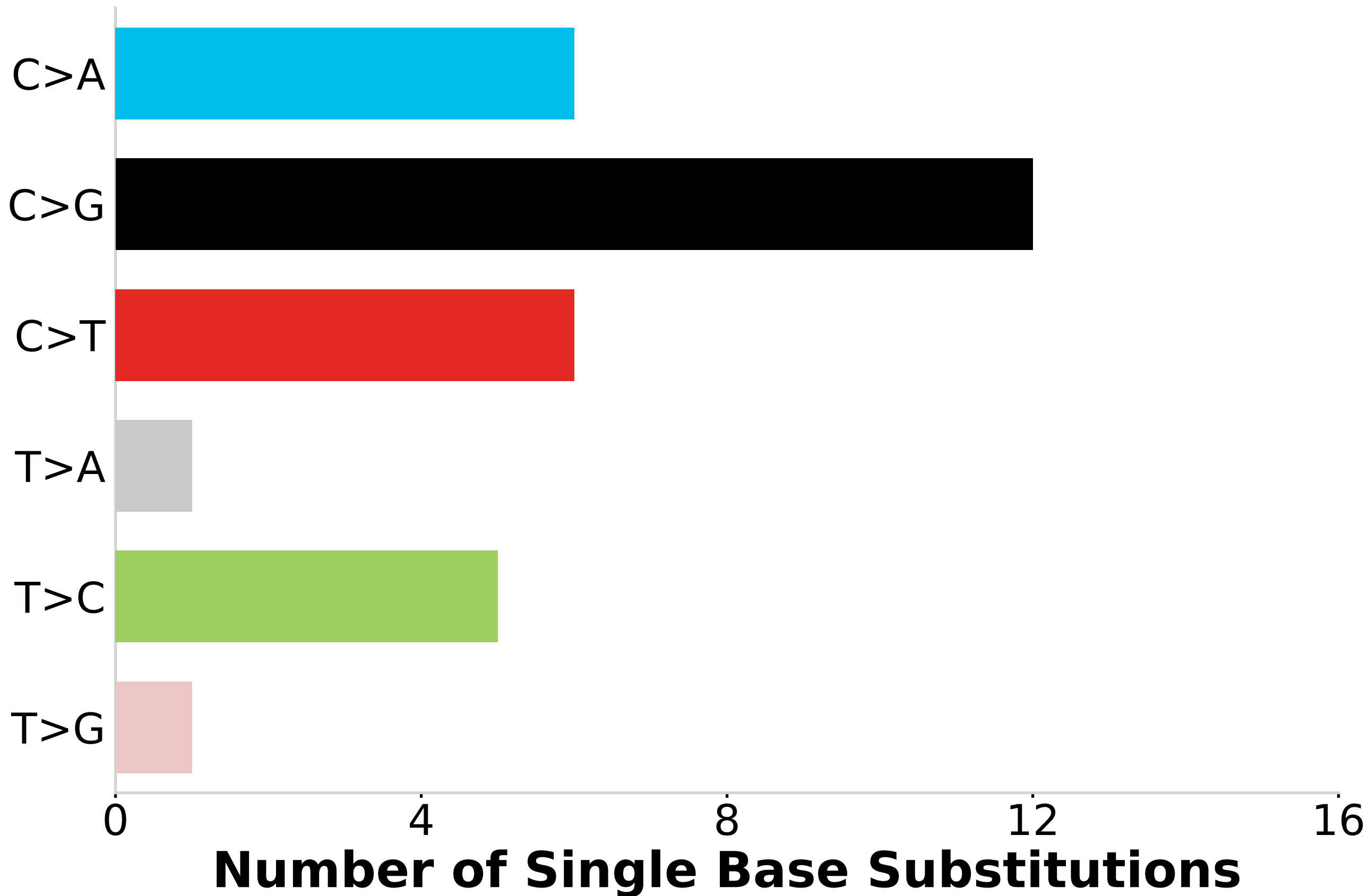
TCGA-XF-AAN2-01A-11D-A42E-08: 457 sub



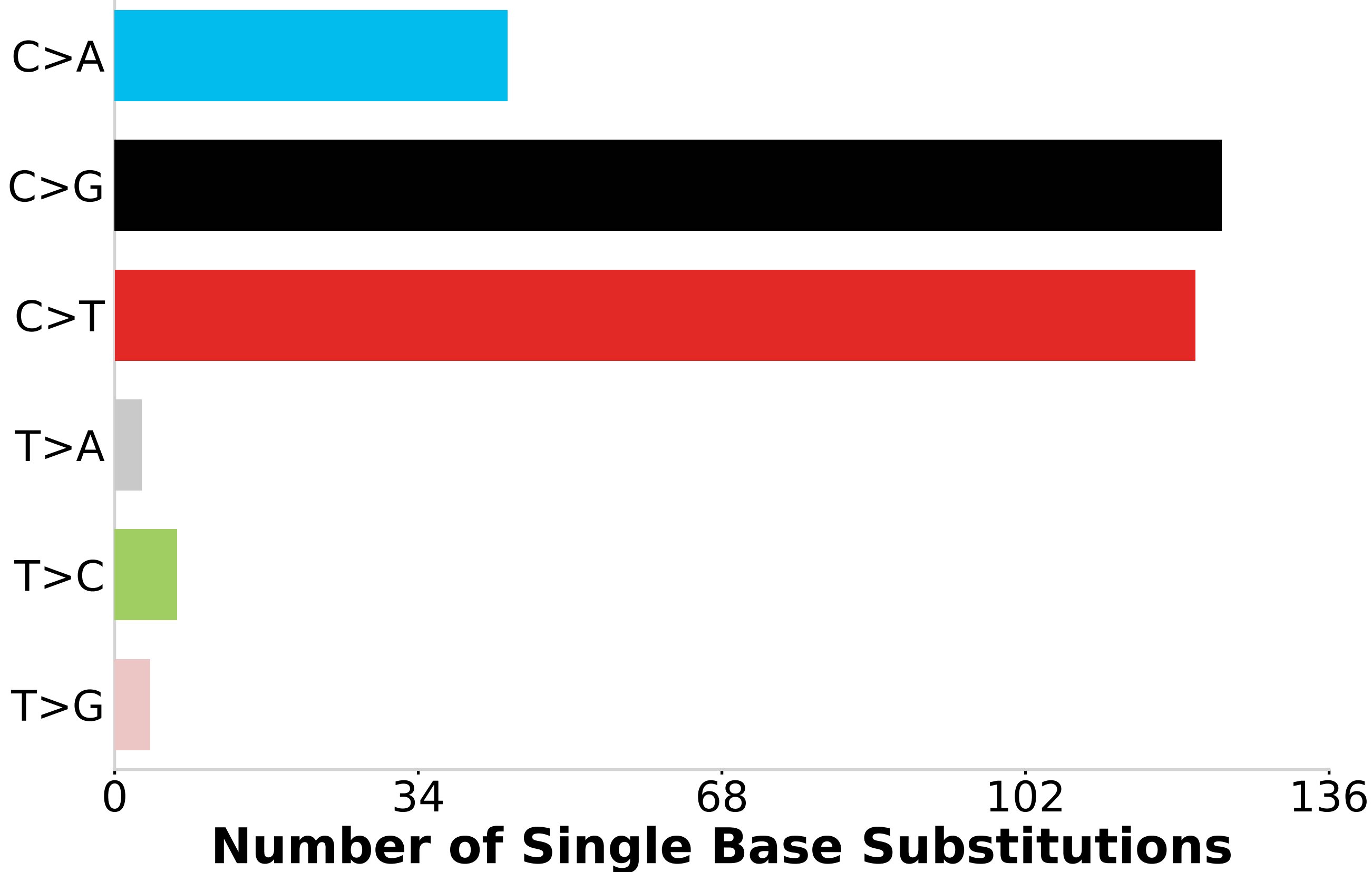
TCGA-XF-AAN3-01A-11D-A42E-08: 172 sub



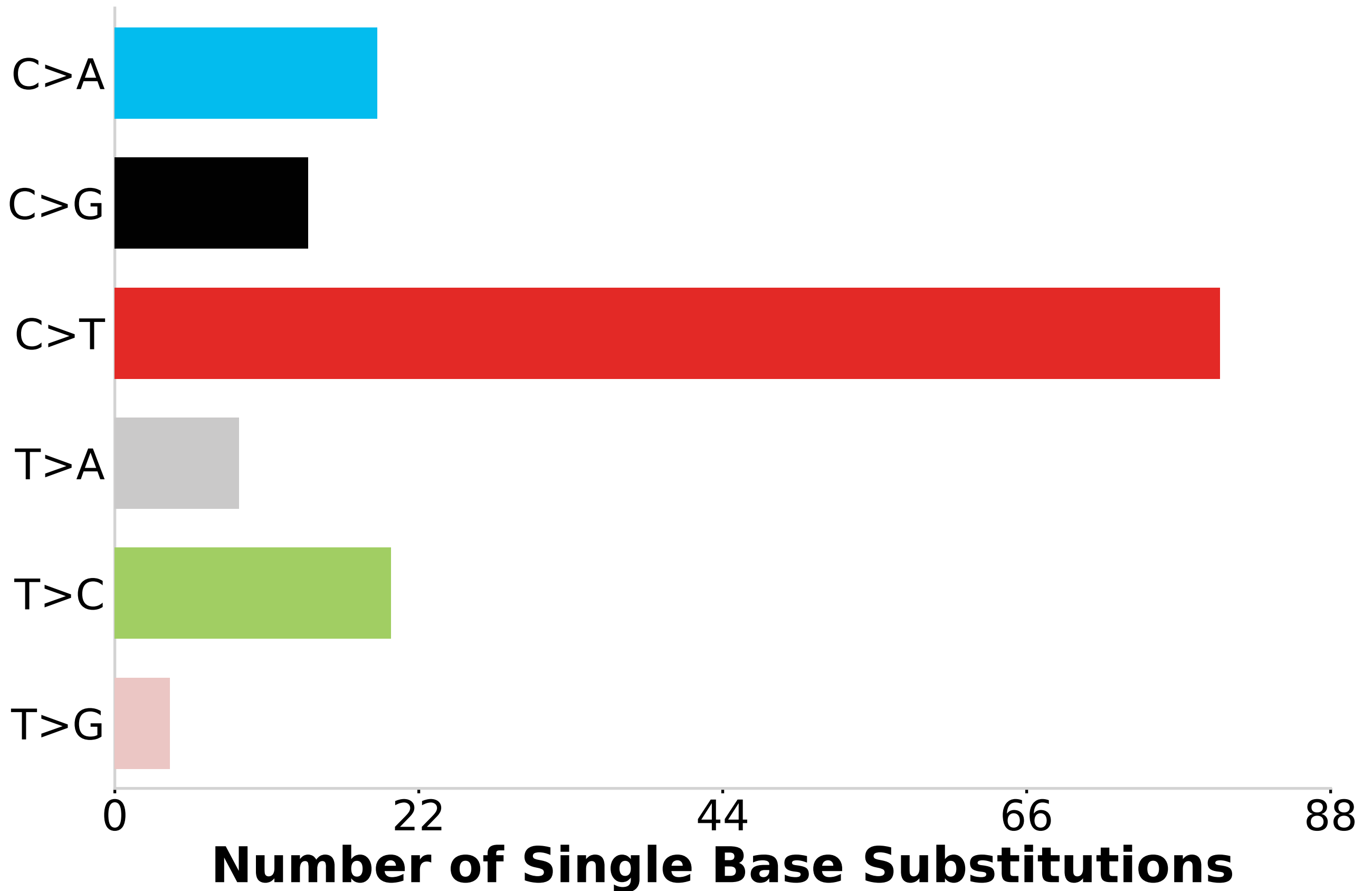
TCGA-XF-AAN4-01A-11D-A42E-08: 31 subs



TCGA-XF-AAN5-01A-11D-A42E-08: 303 sub



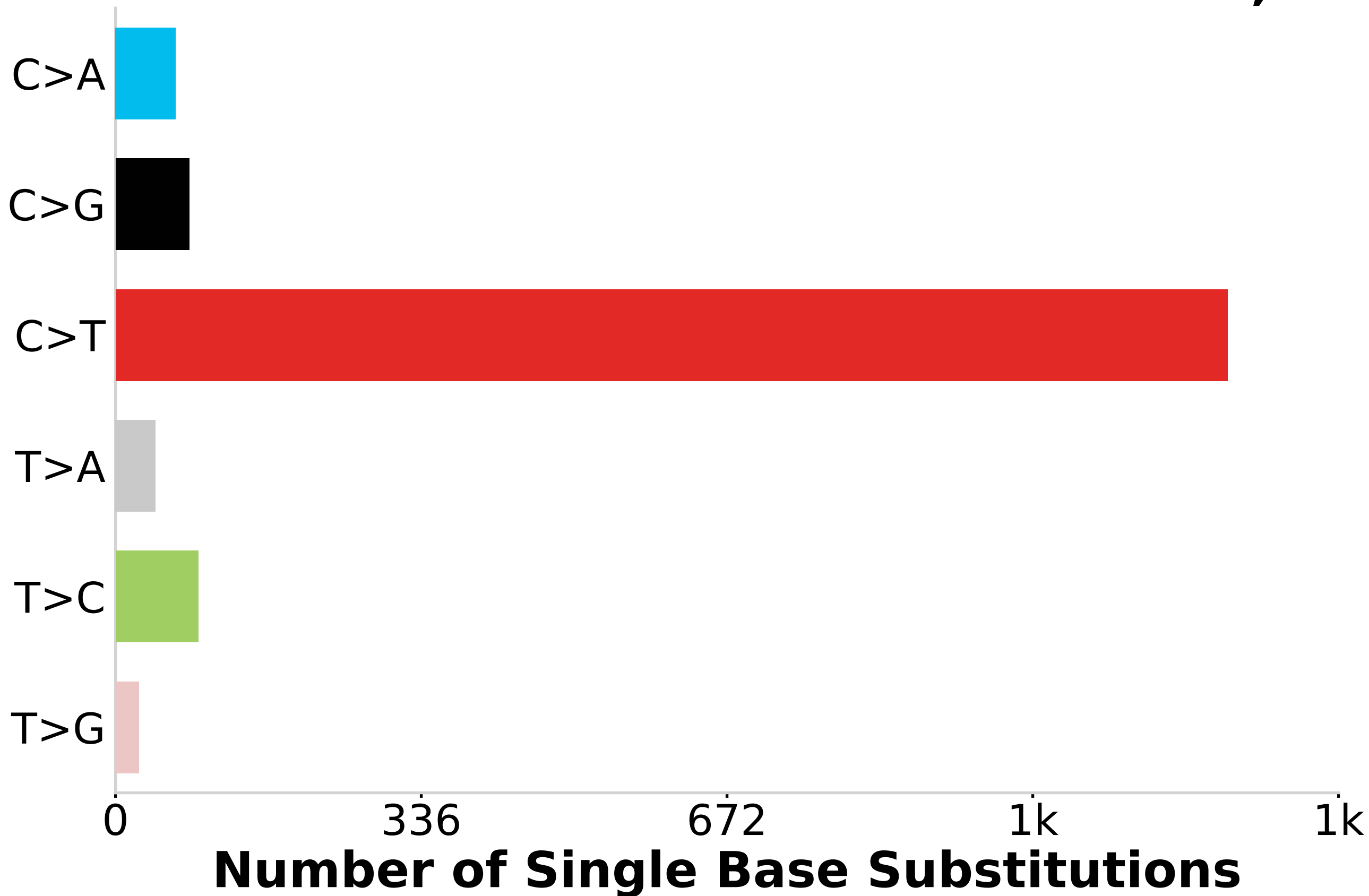
TCGA-XF-AAN7-01A-11D-A42E-08: 146 sub



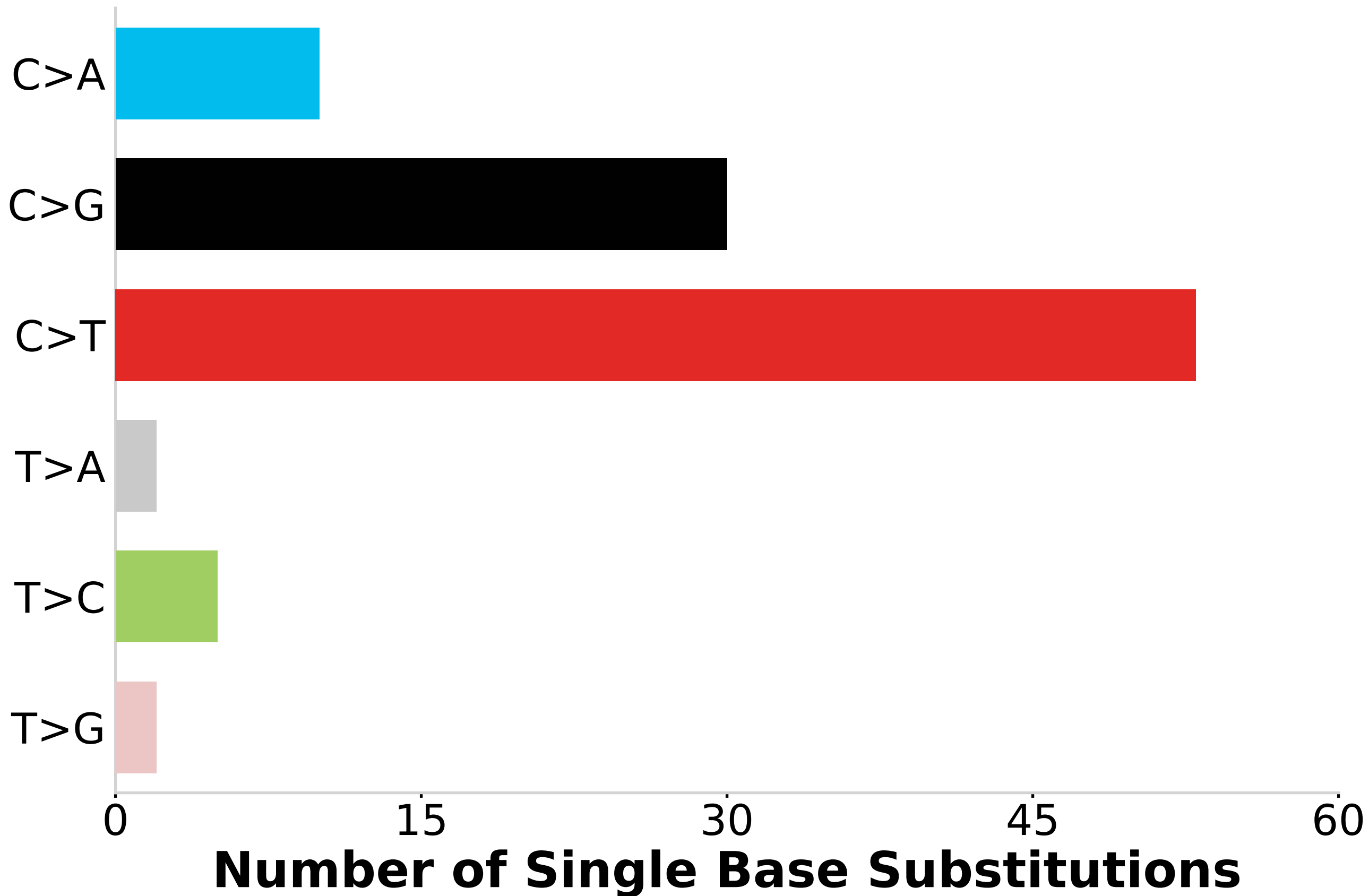
TCGA-XF-AAN8-01A-11D-A42E-08: 1 subs



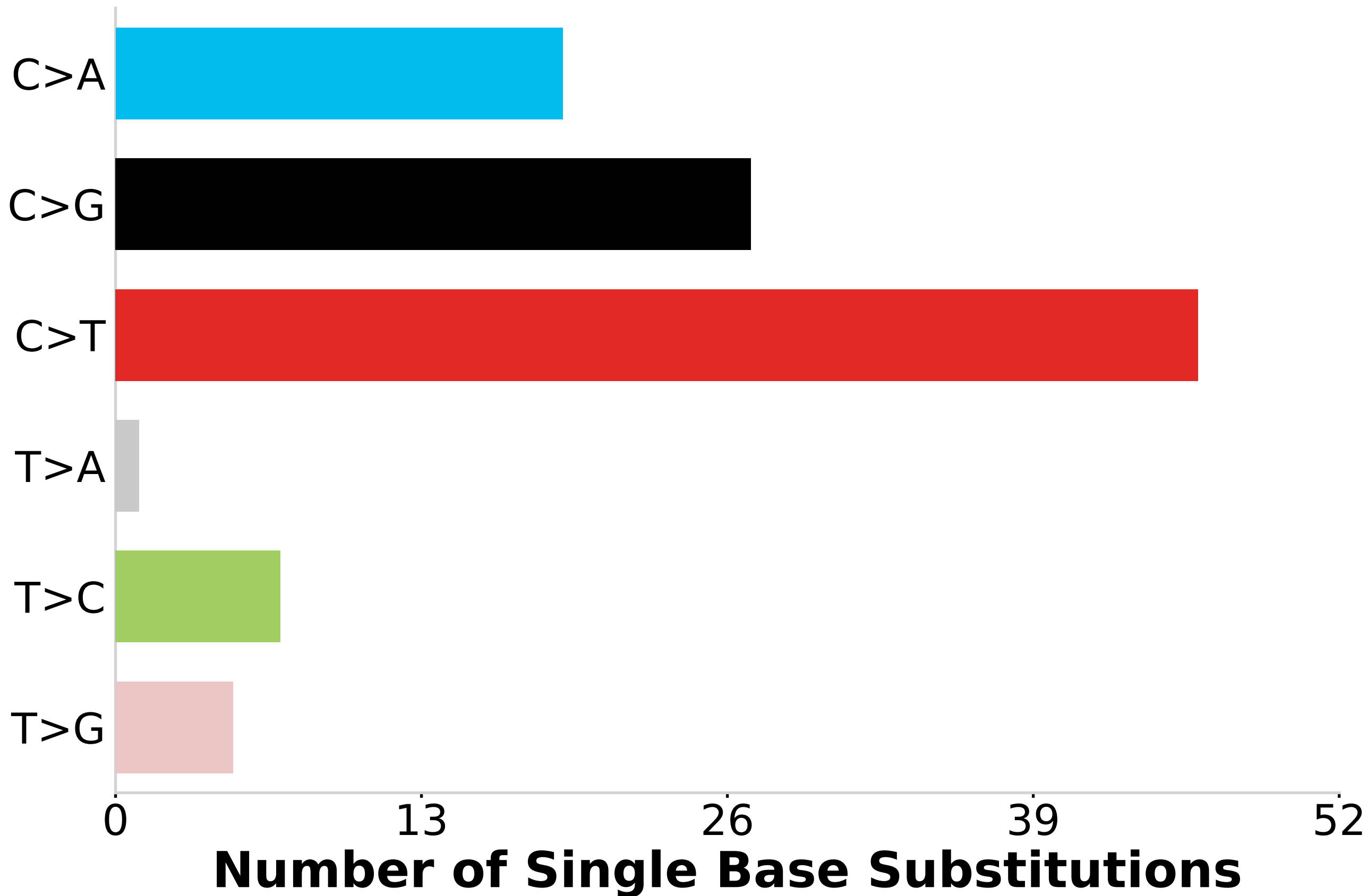
TCGA-YC-A89H-01A-11D-A364-08: 1,530 su



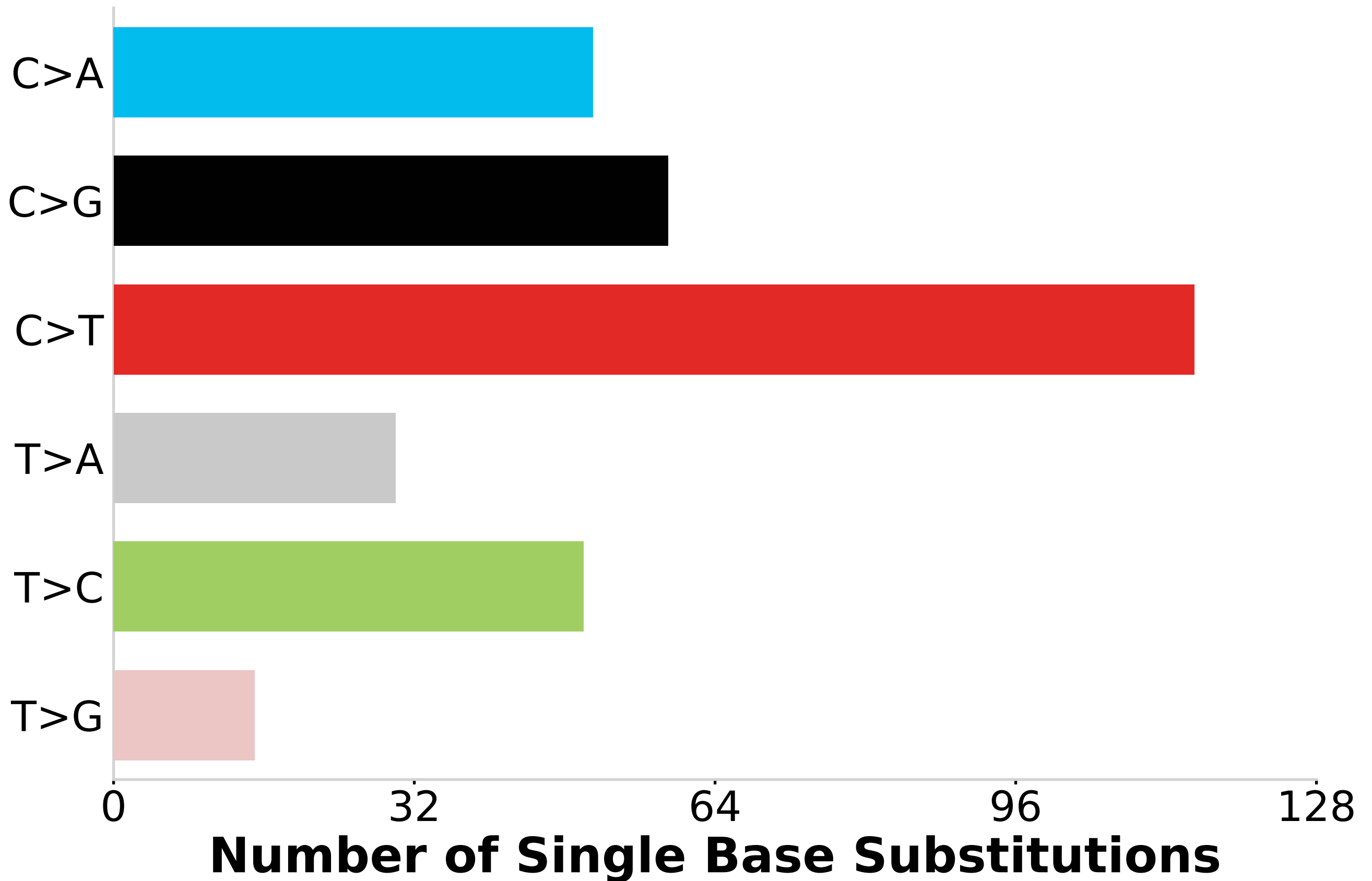
TCGA-YC-A8S6-01A-31D-A38G-08: 102 sub



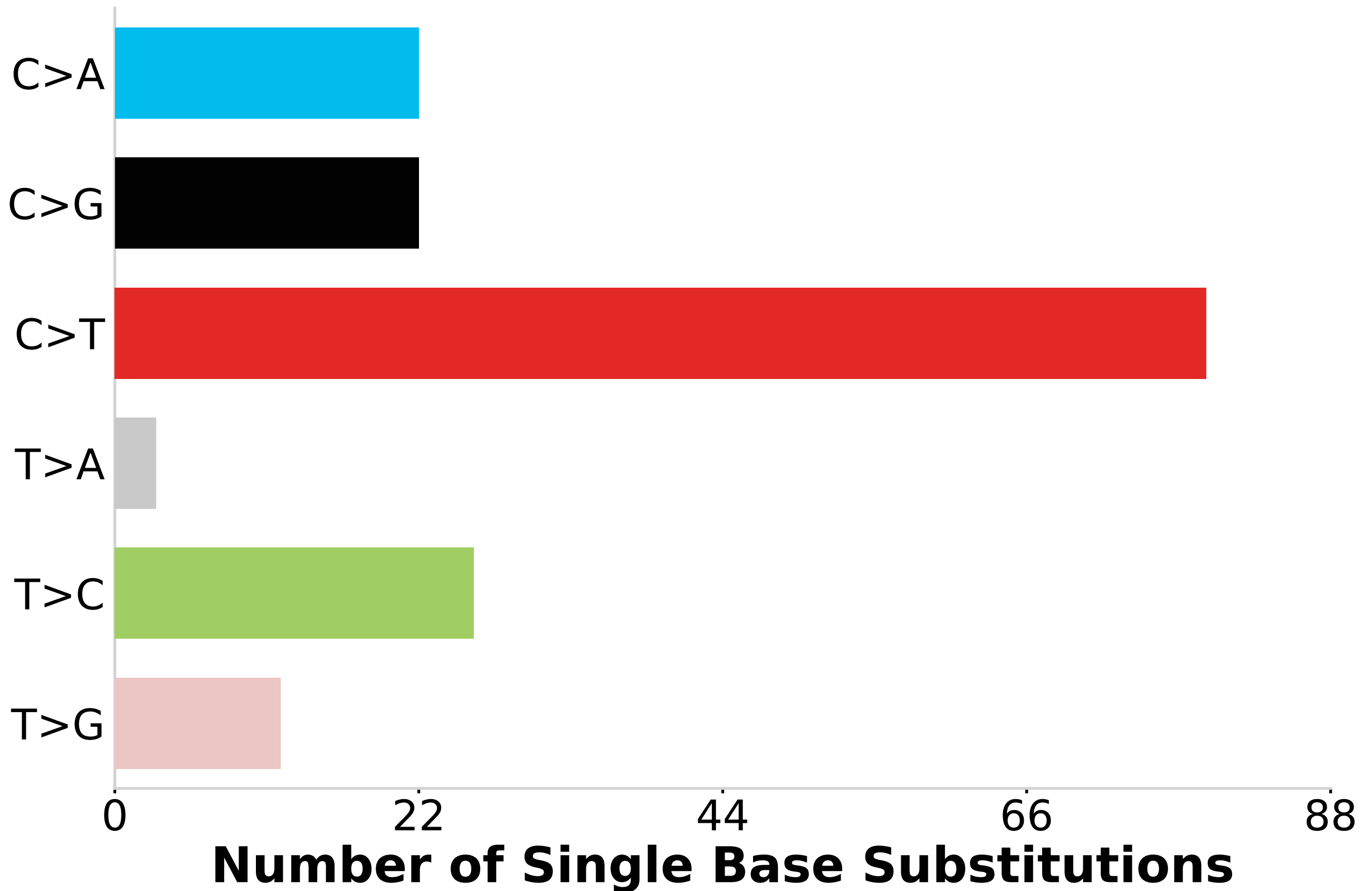
TCGA-YC-A9TC-01A-22D-A391-08: 105 sub



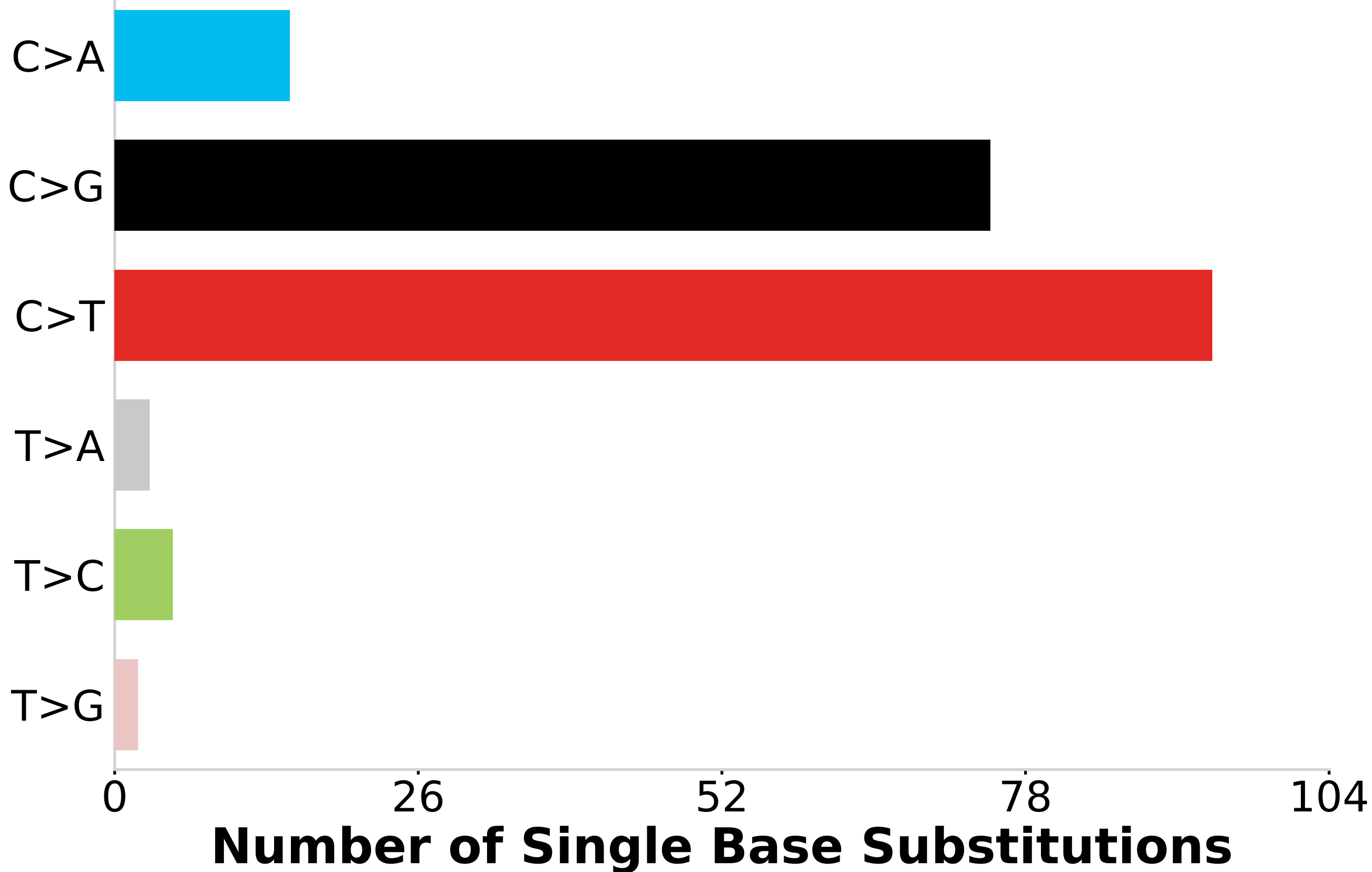
TCGA-YF-AA3L-01A-11D-A38G-08: 320 sub



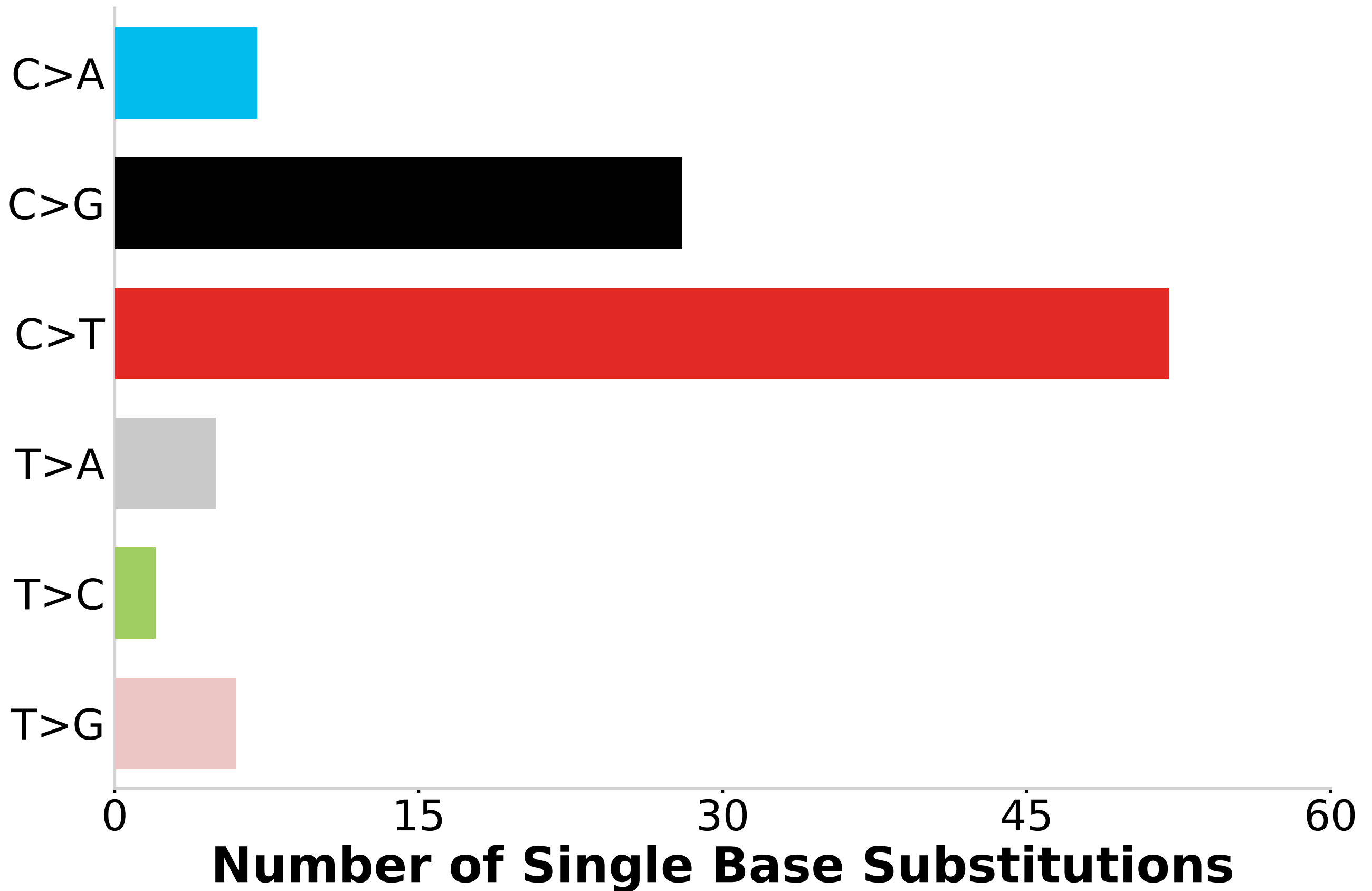
TCGA-YF-AA3M-01A-11D-A42E-08: 164 sub



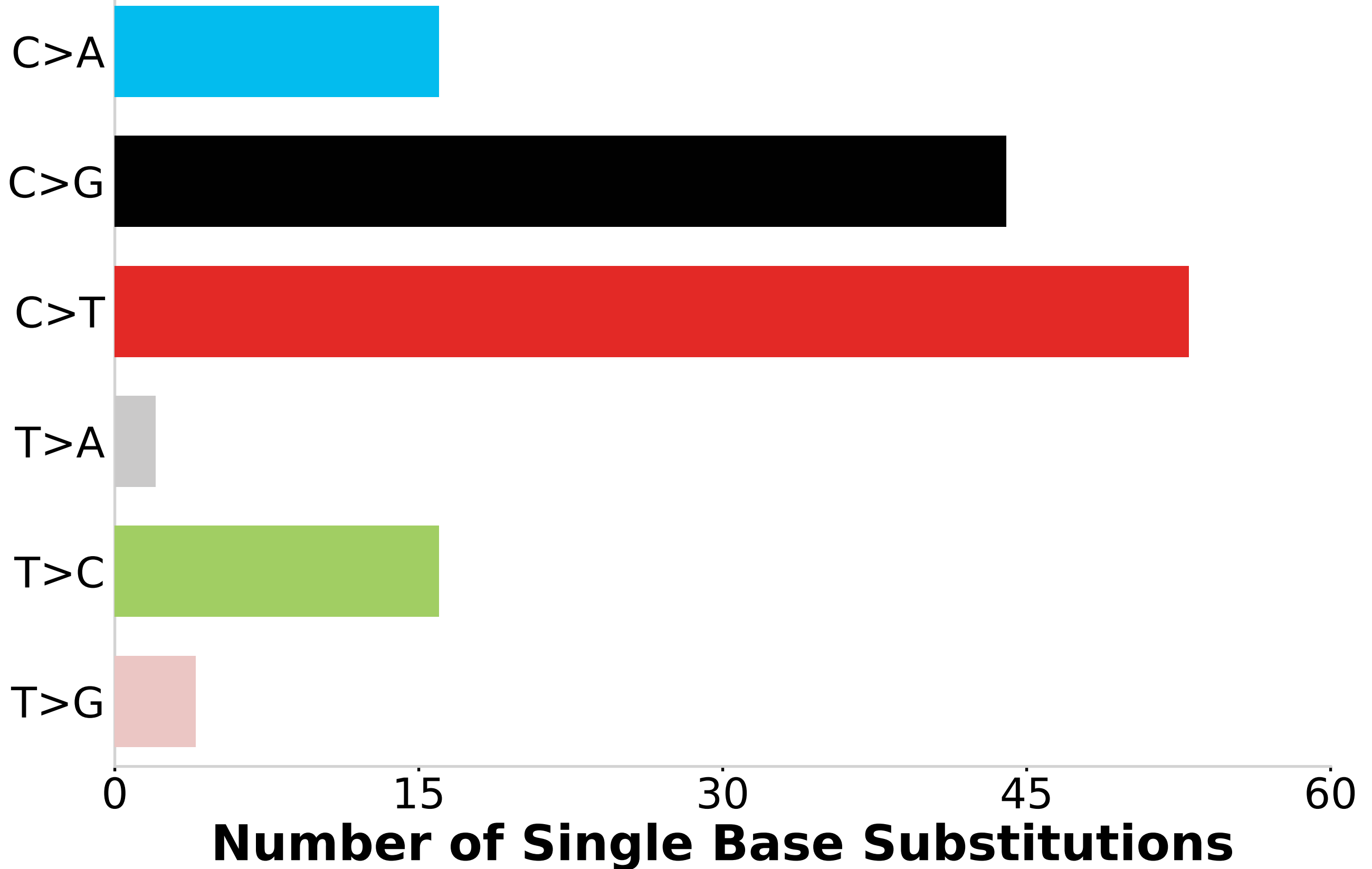
TCGA-ZF-A9R0-01A-11D-A38G-08: 194 sub



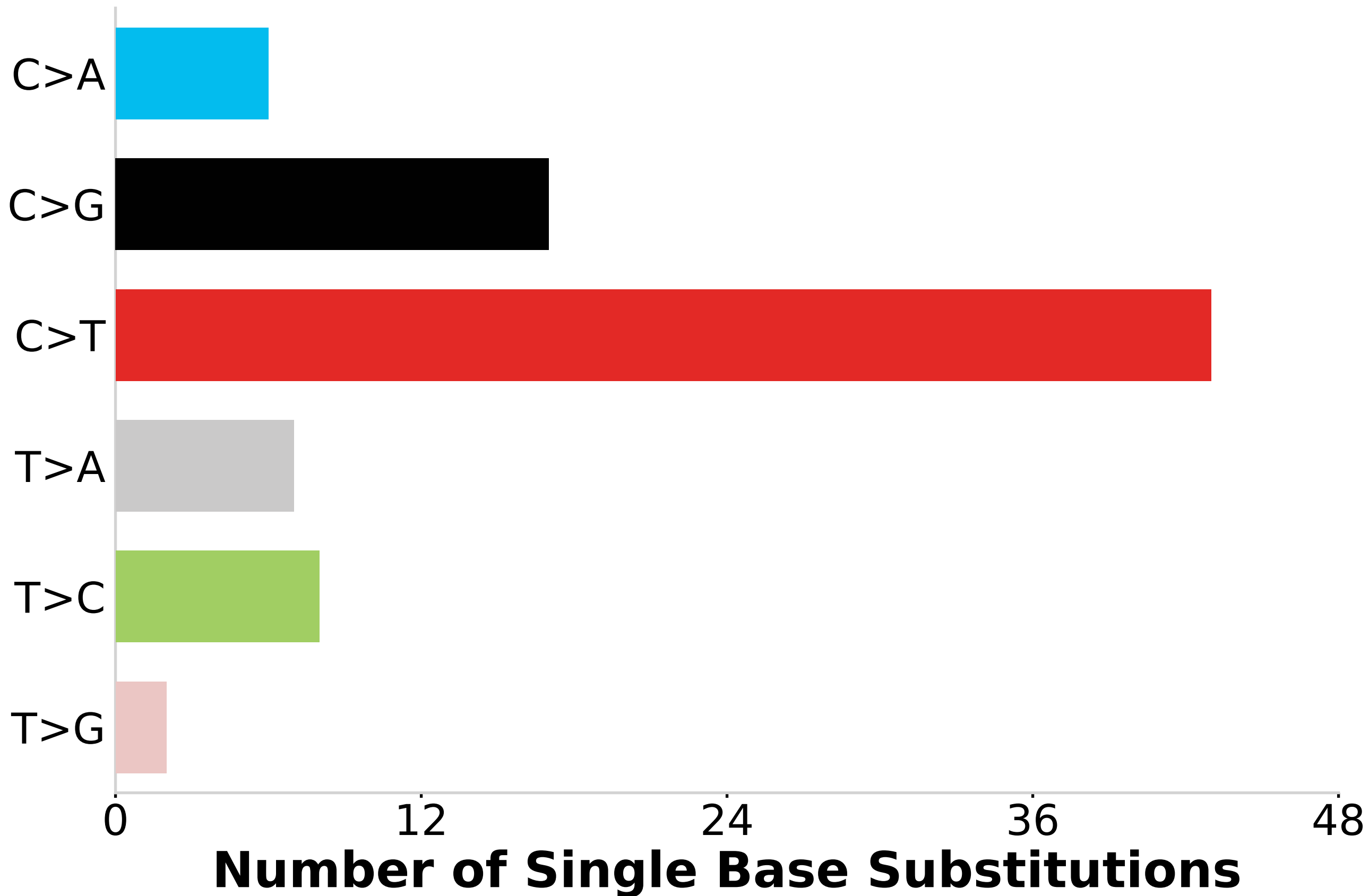
TCGA-ZF-A9R1-01A-11D-A391-08: 100 sub



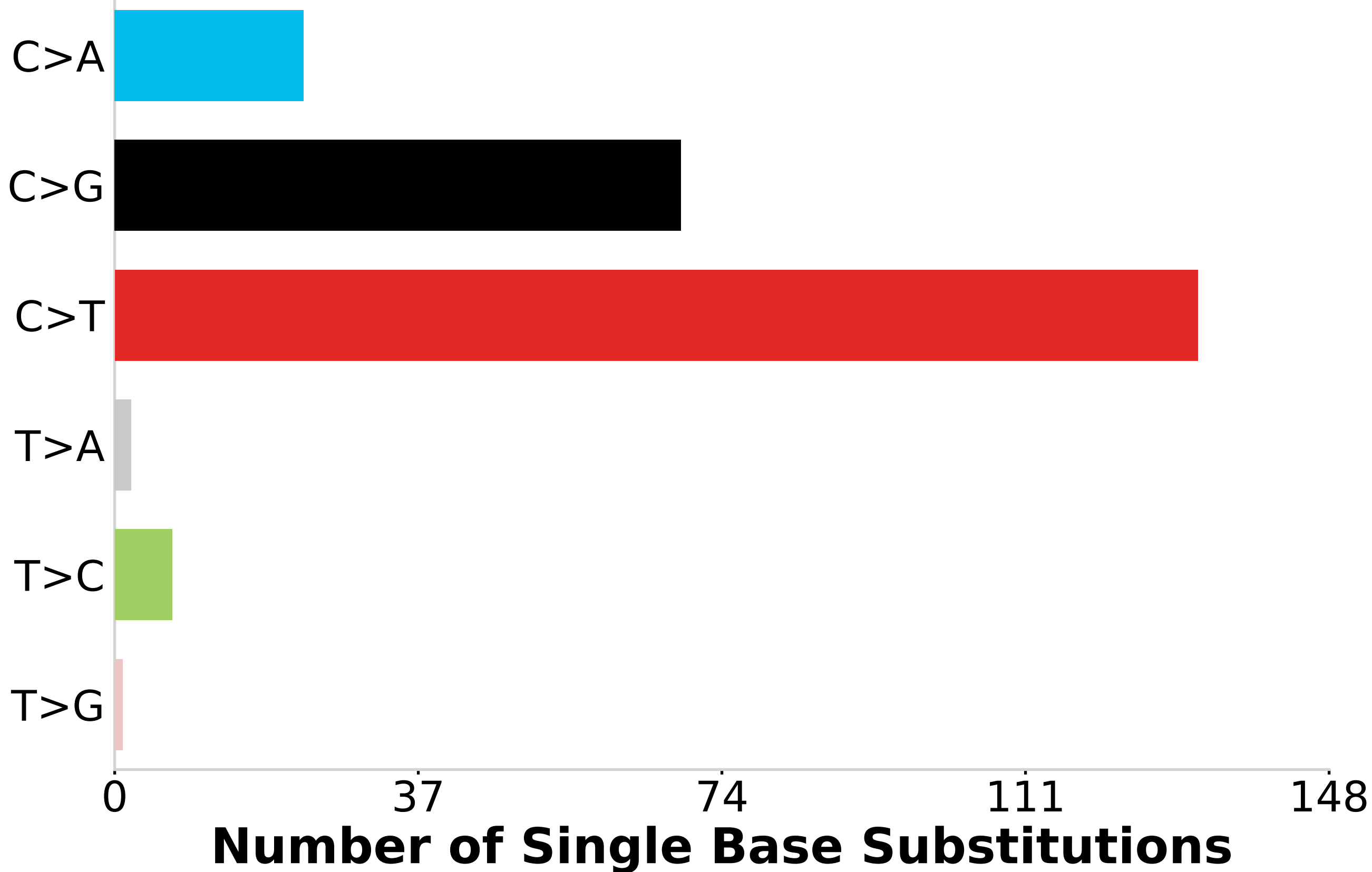
TCGA-ZF-A9R2-01A-11D-A391-08: 135 sub



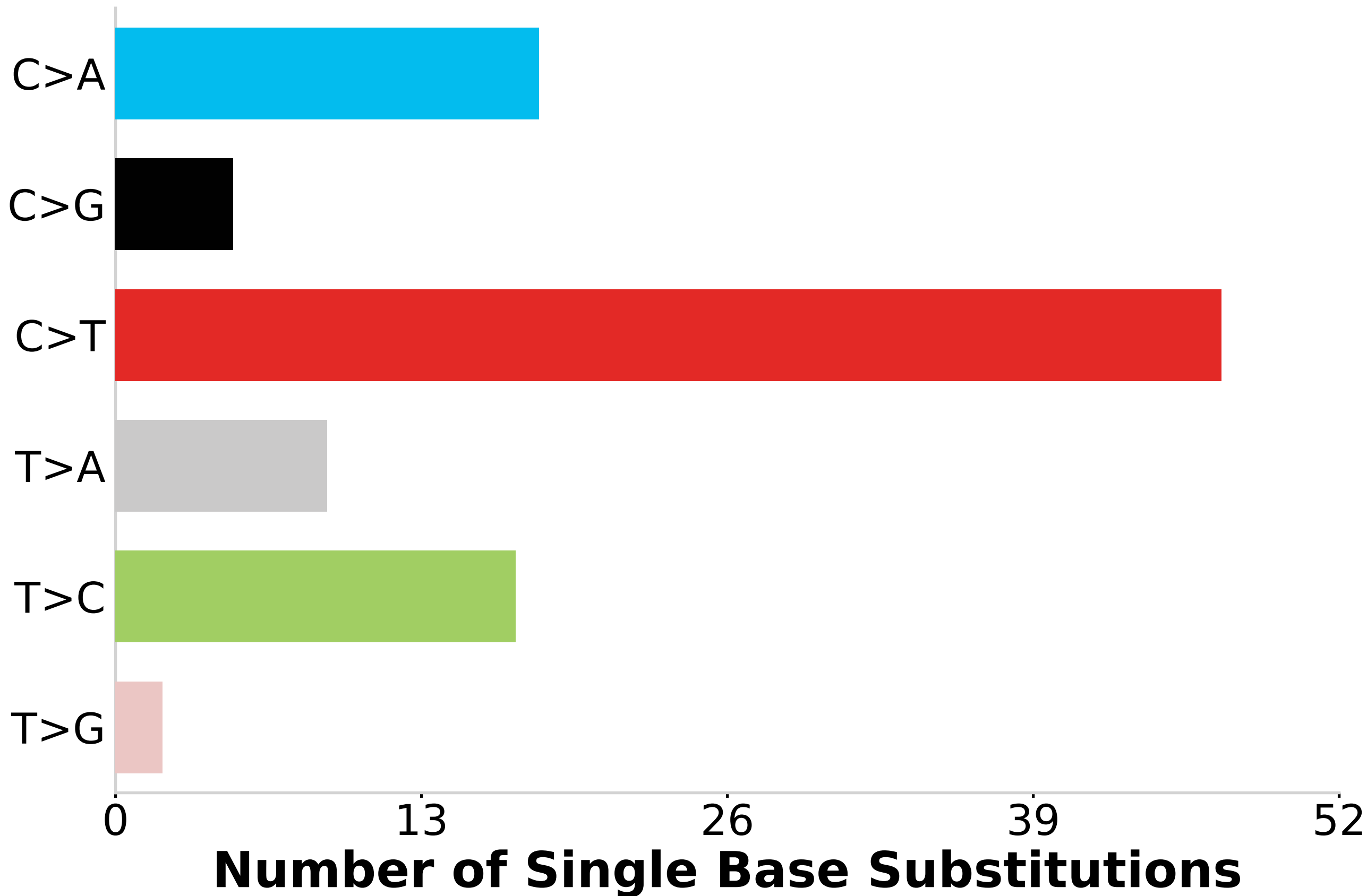
TCGA-ZF-A9R3-01A-11D-A38G-08: 83 subs



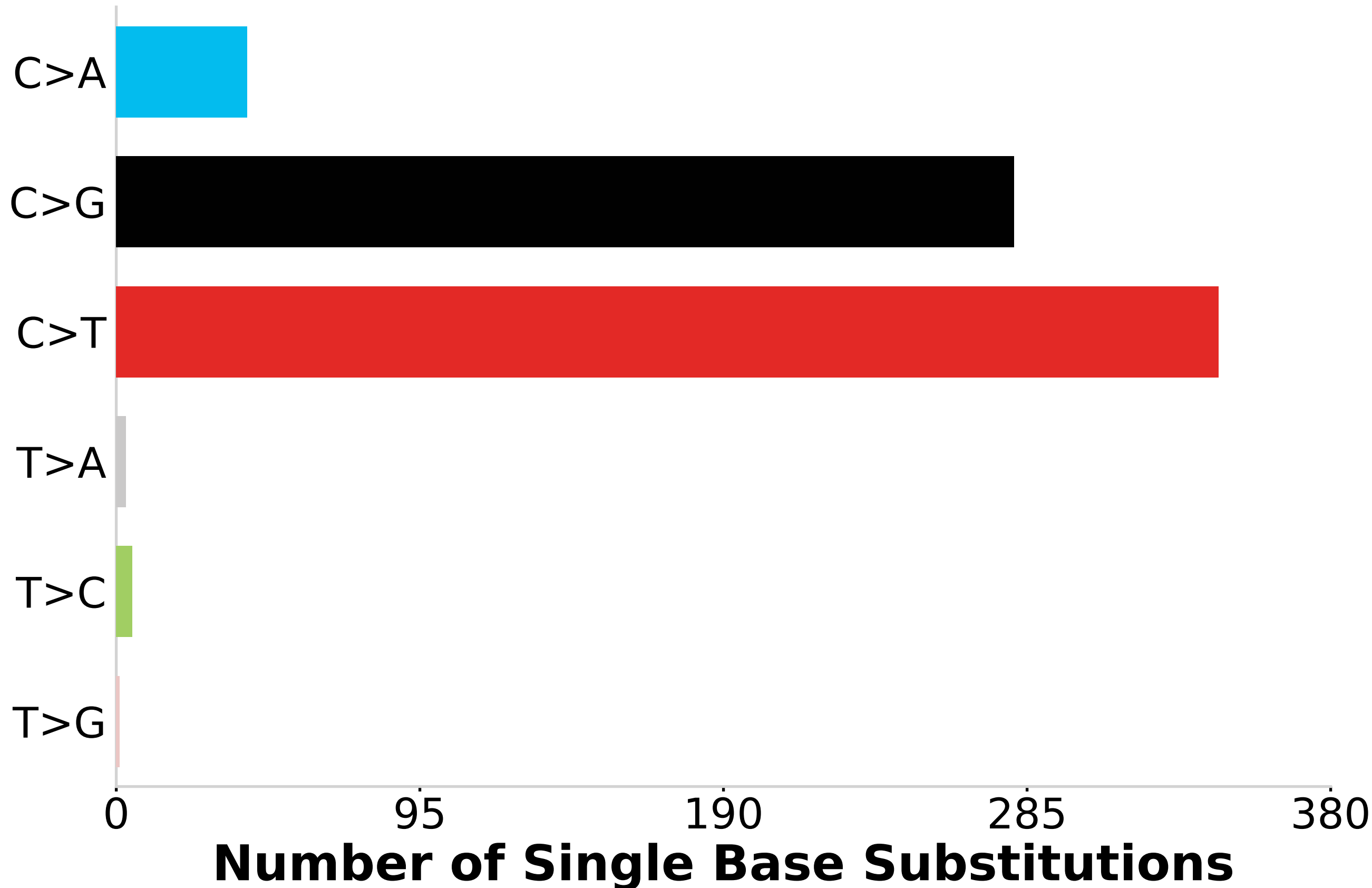
TCGA-ZF-A9R4-01A-11D-A38G-08: 234 sub



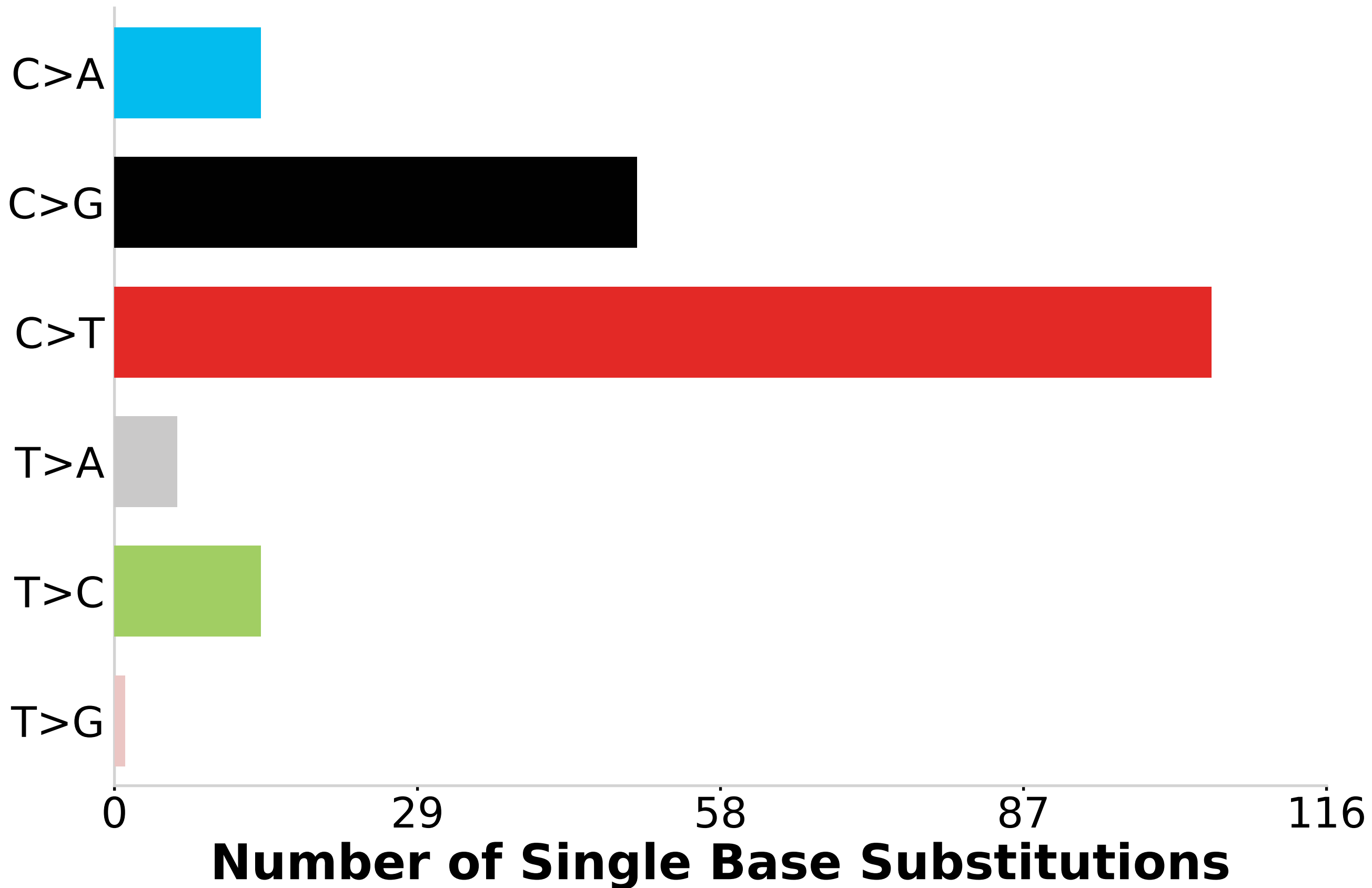
TCGA-ZF-A9R5-01A-12D-A42E-08: 98 subs



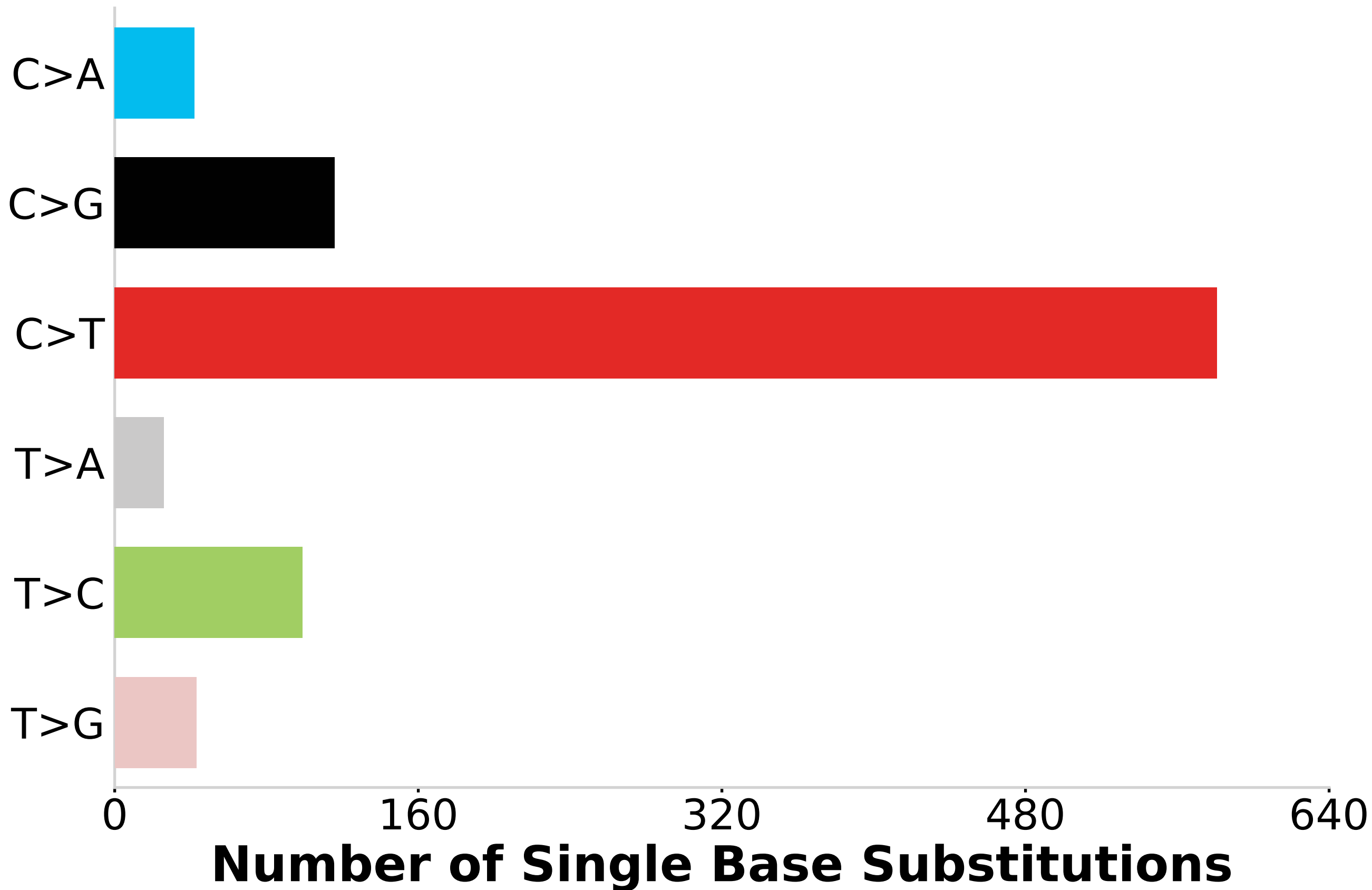
TCGA-ZF-A9R7-01A-11D-A38G-08: 676 sub



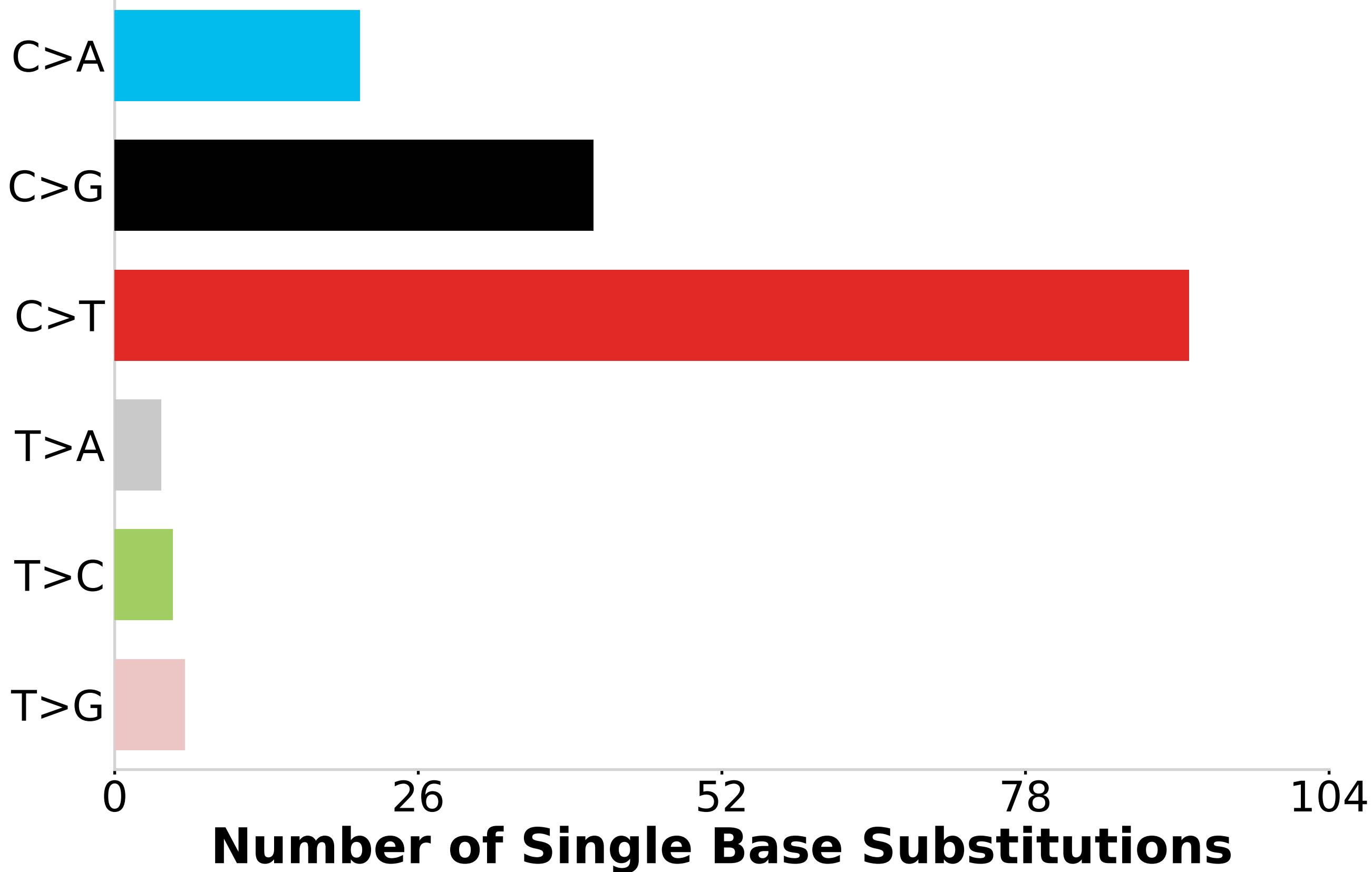
TCGA-ZF-A9R9-01A-11D-A38G-08: 190 sub



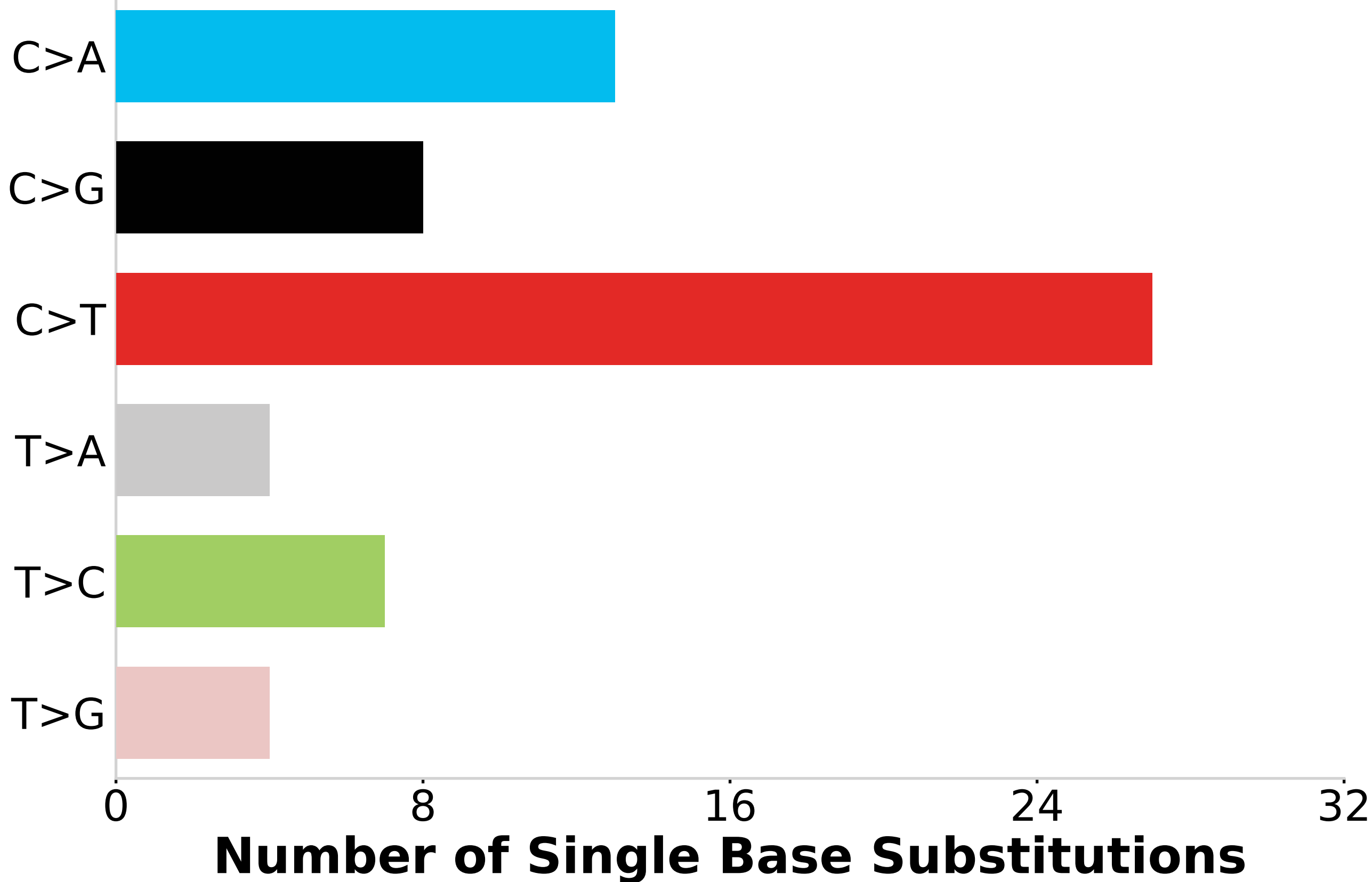
TCGA-ZF-A9RC-01A-11D-A38G-08: 907 sub



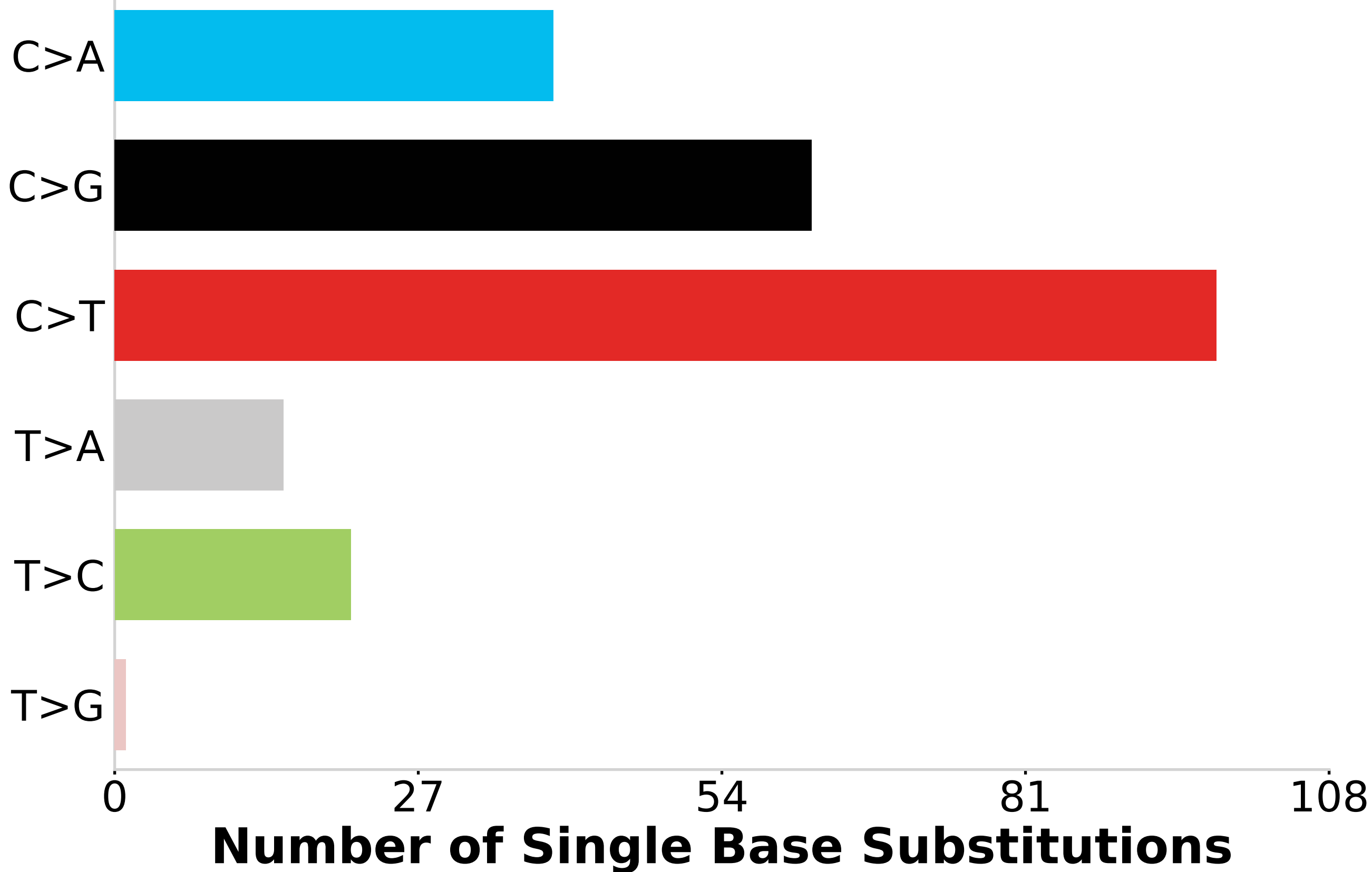
TCGA-ZF-A9RD-01A-11D-A42E-08: 169 sub



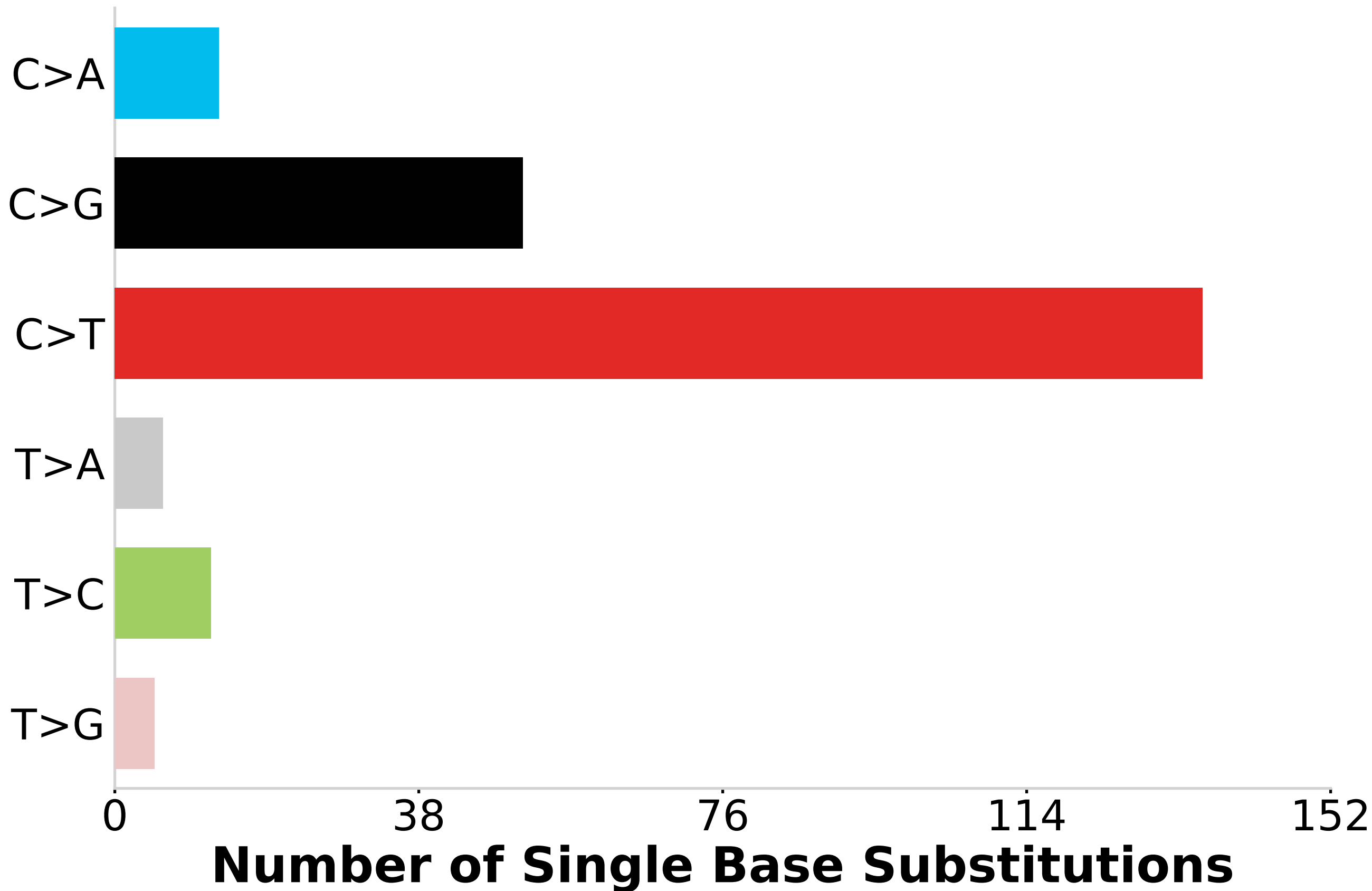
TCGA-ZF-A9RE-01A-11D-A38G-08: 63 subs



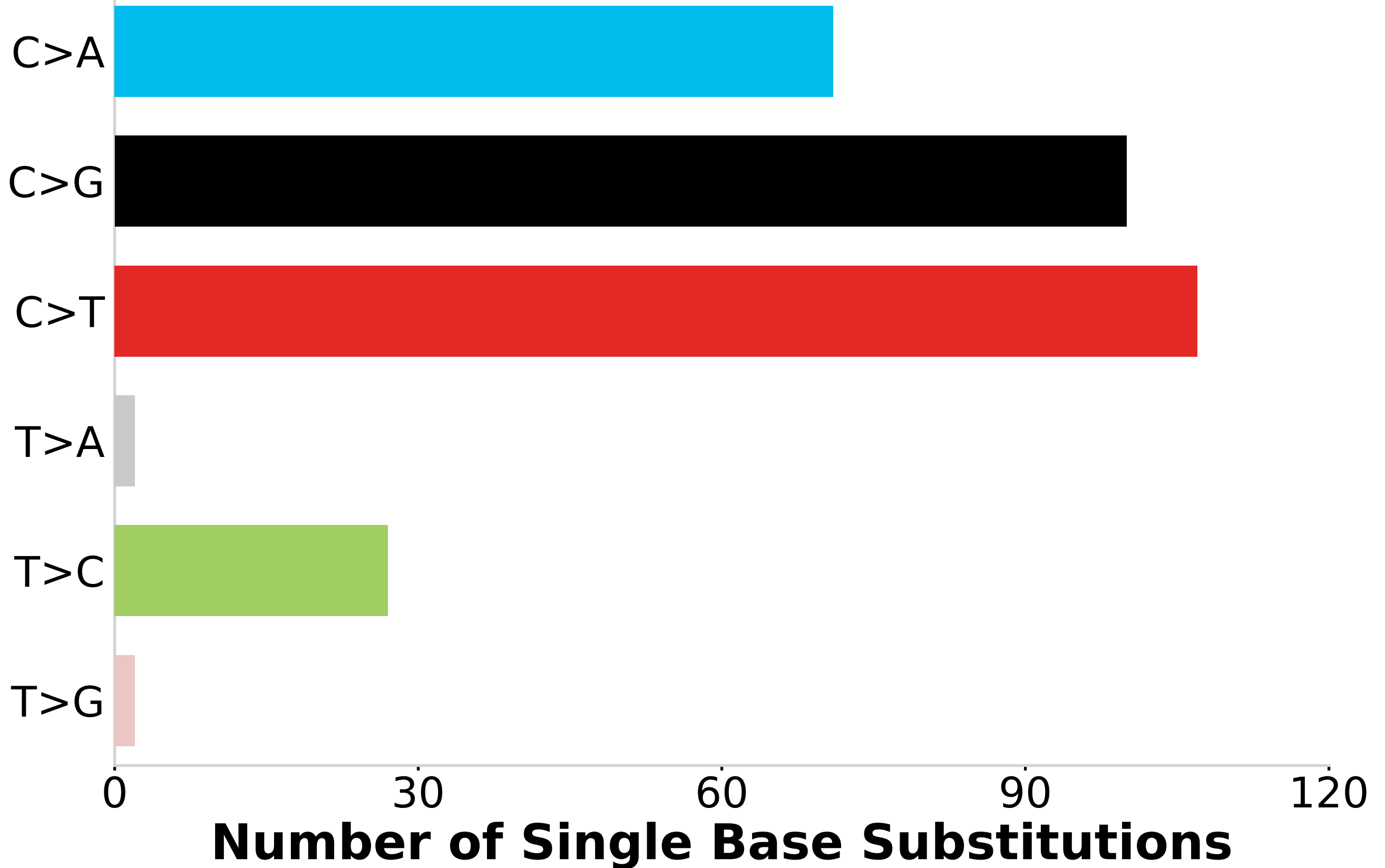
TCGA-ZF-A9RF-01A-11D-A38G-08: 236 sub



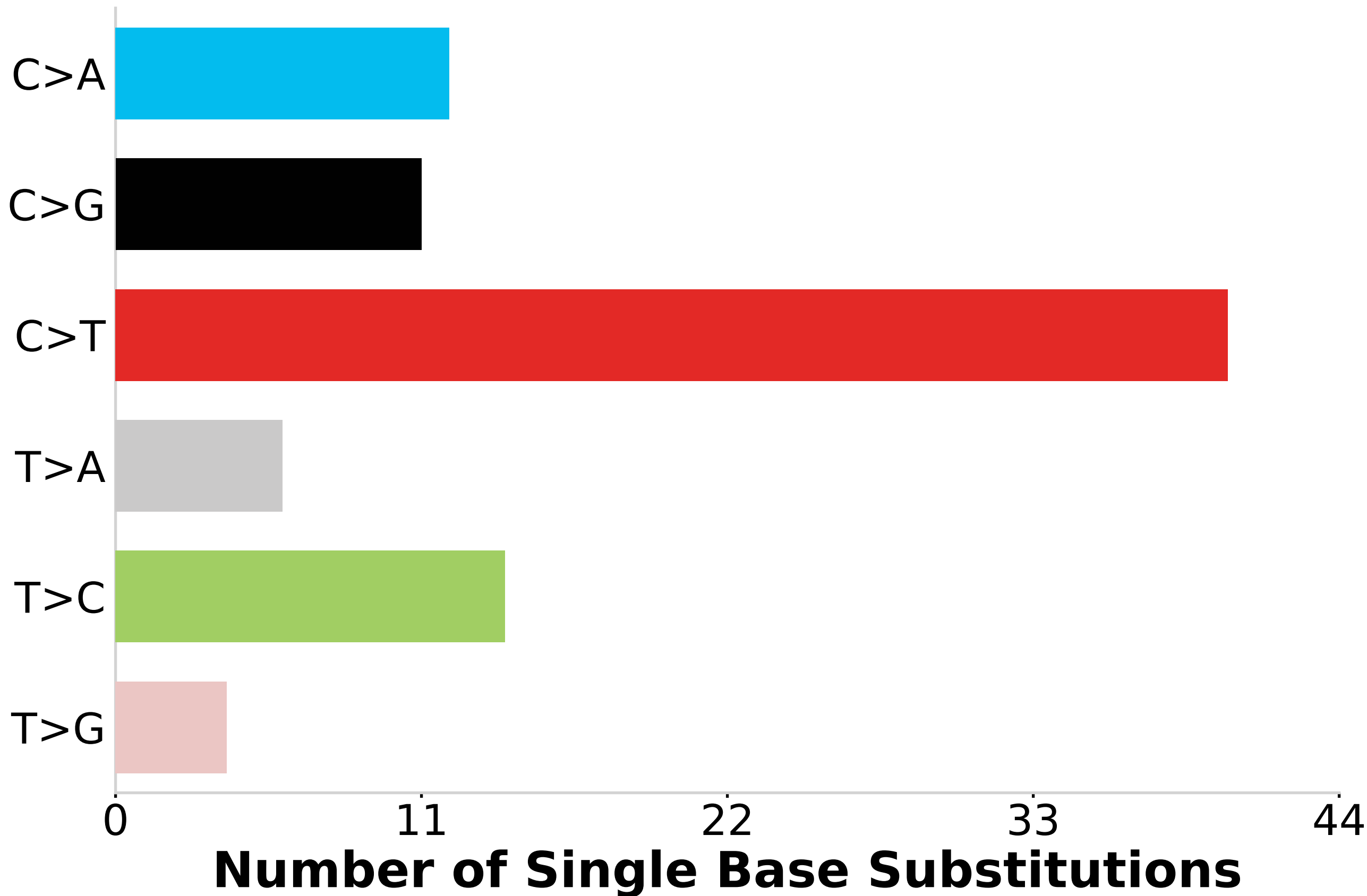
TCGA-ZF-A9RG-01A-21D-A42E-08: 223 sub



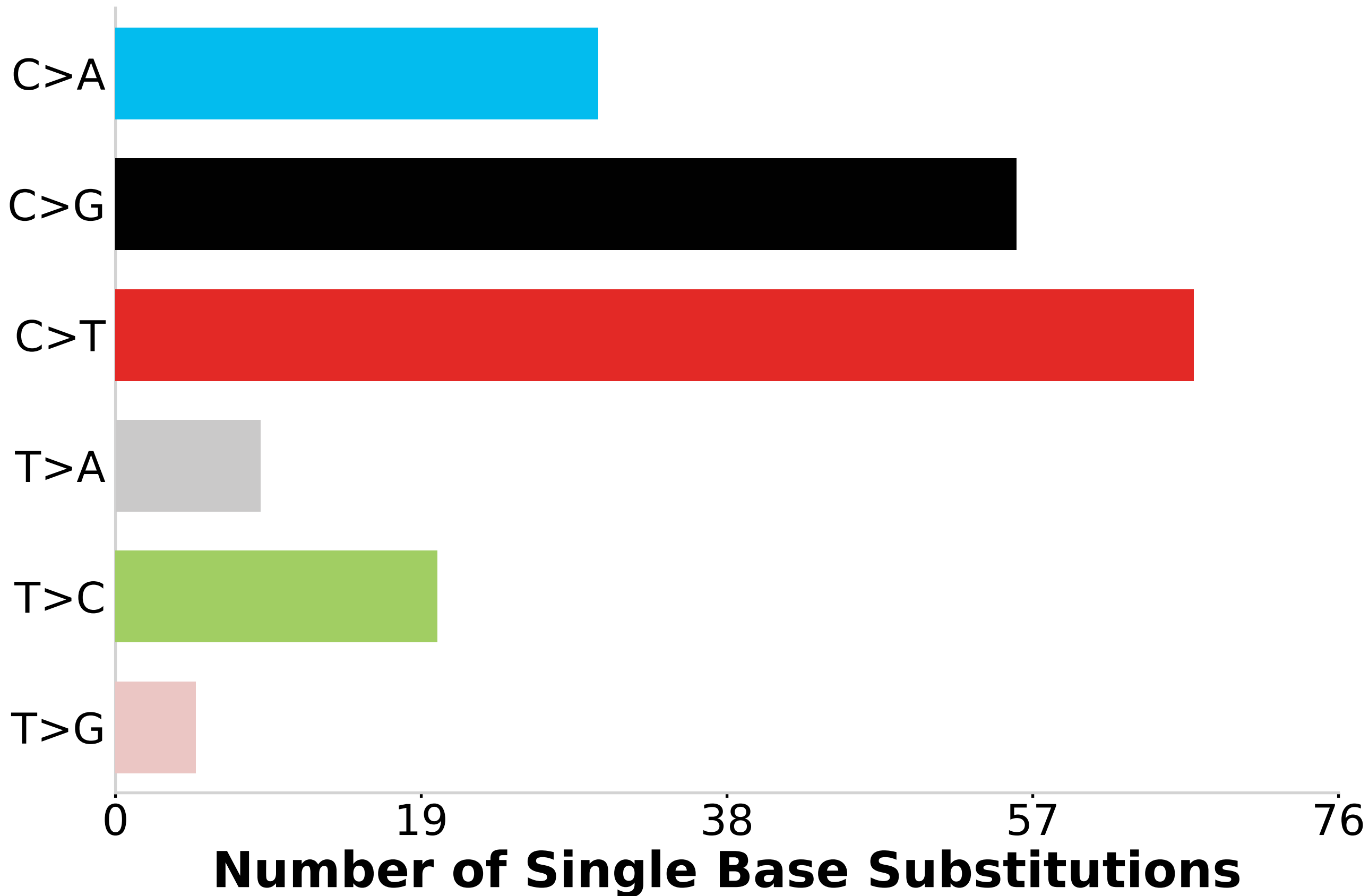
TCGA-ZF-A9RL-01A-11D-A38G-08: 309 sub



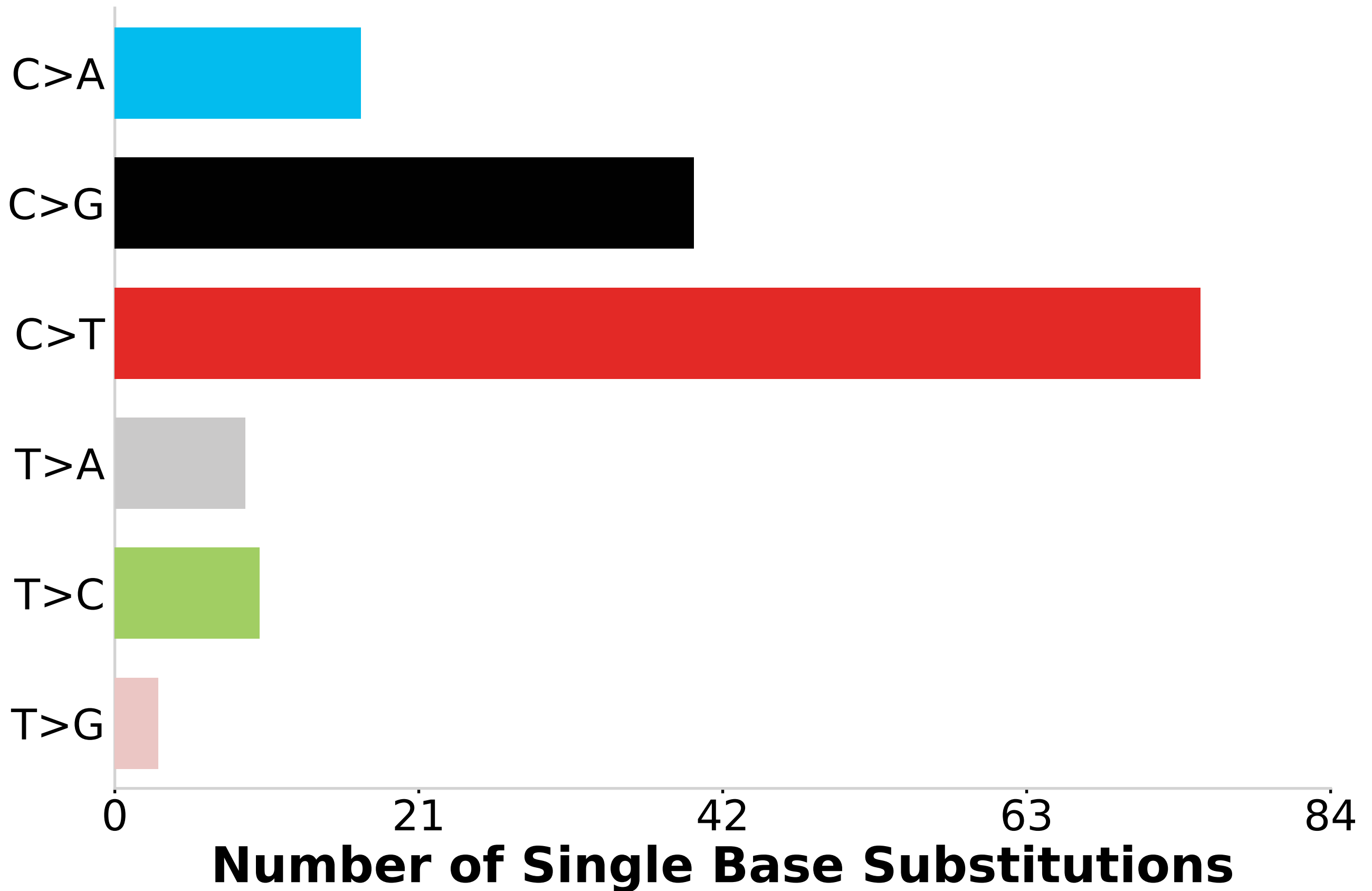
TCGA-ZF-A9RM-01A-11D-A38G-08: 87 subs



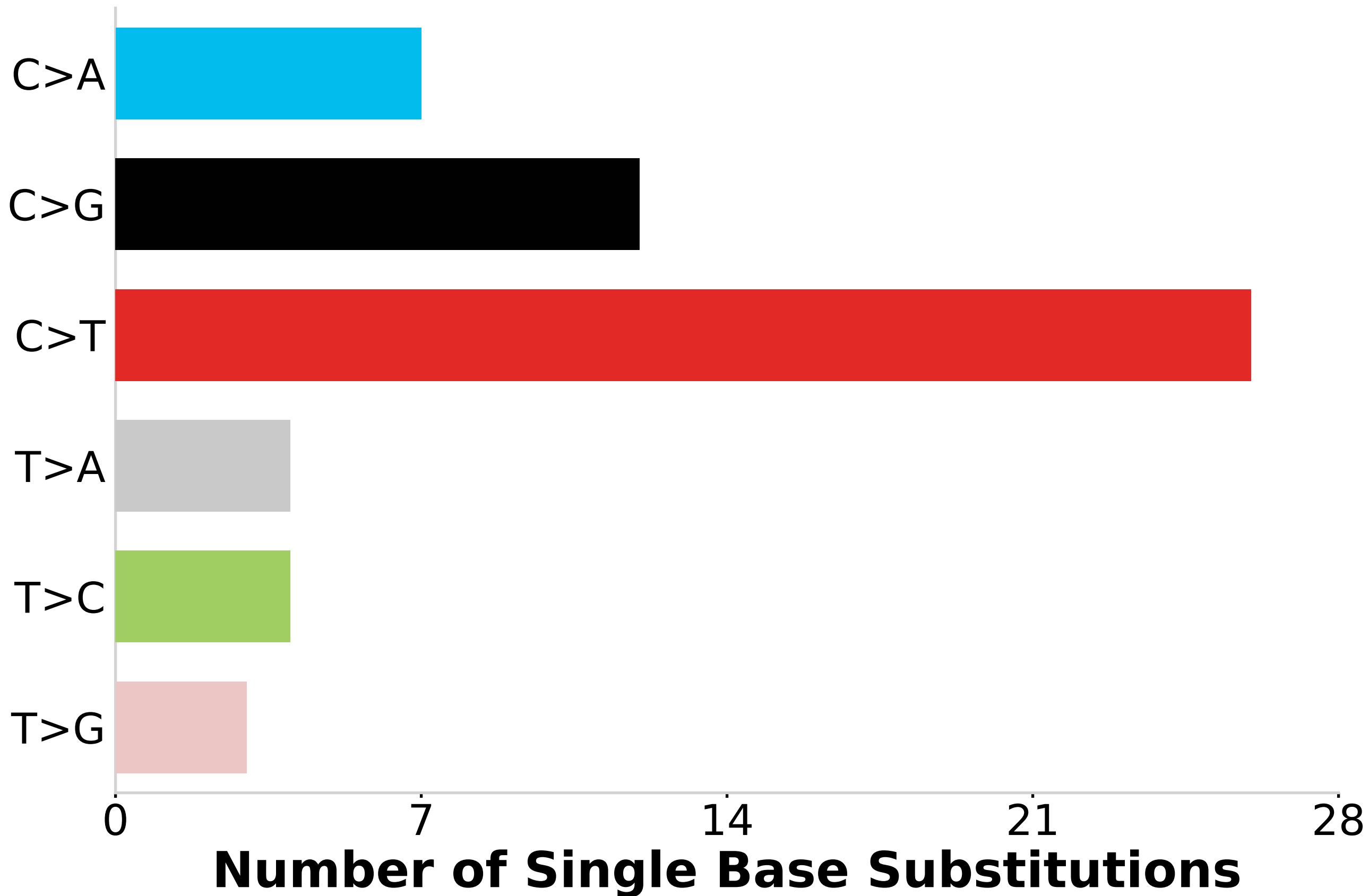
TCGA-ZF-A9RN-01A-11D-A42E-08: 187 sub



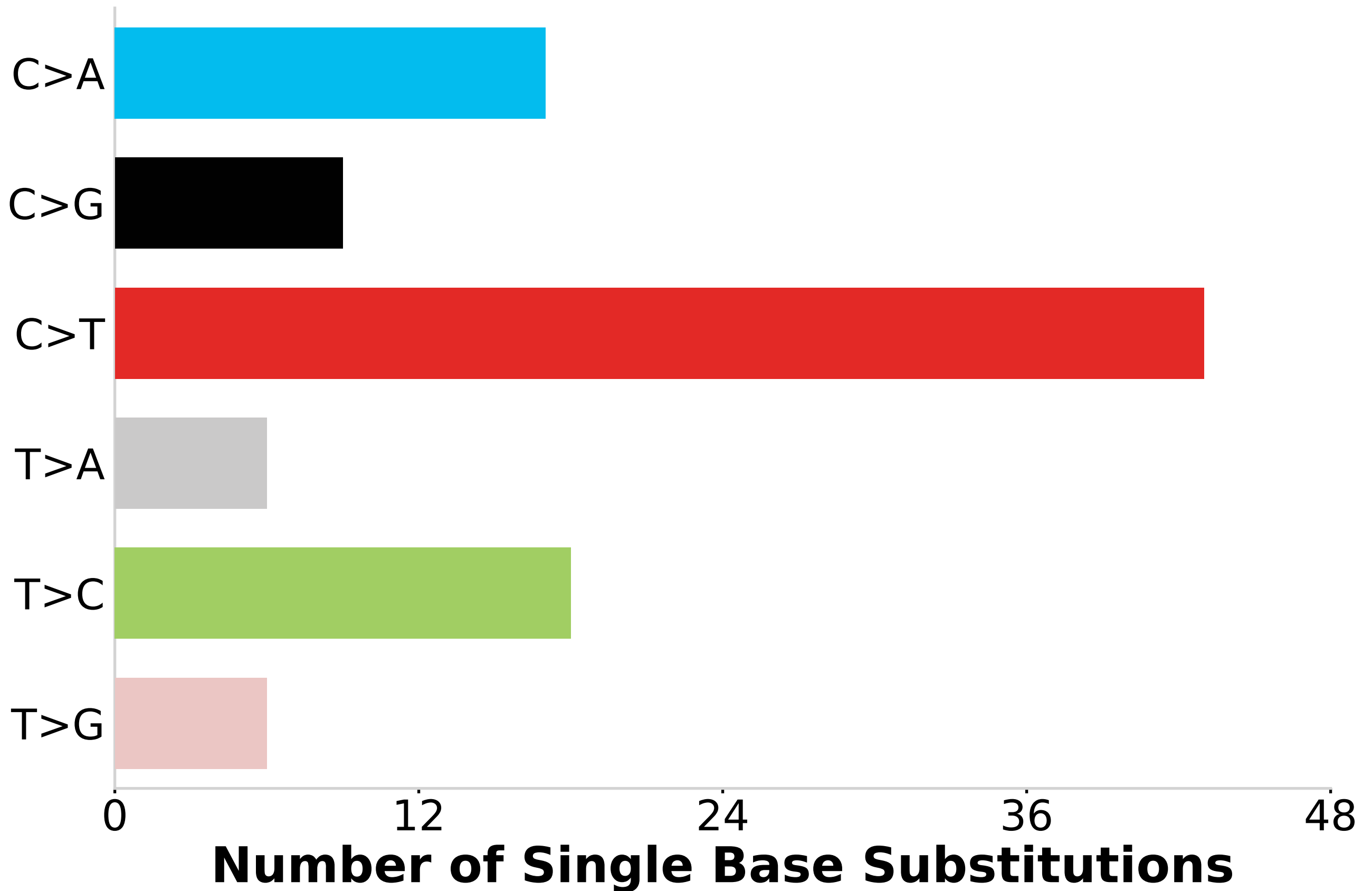
TCGA-ZF-AA4N-01A-11D-A38G-08: 154 sub



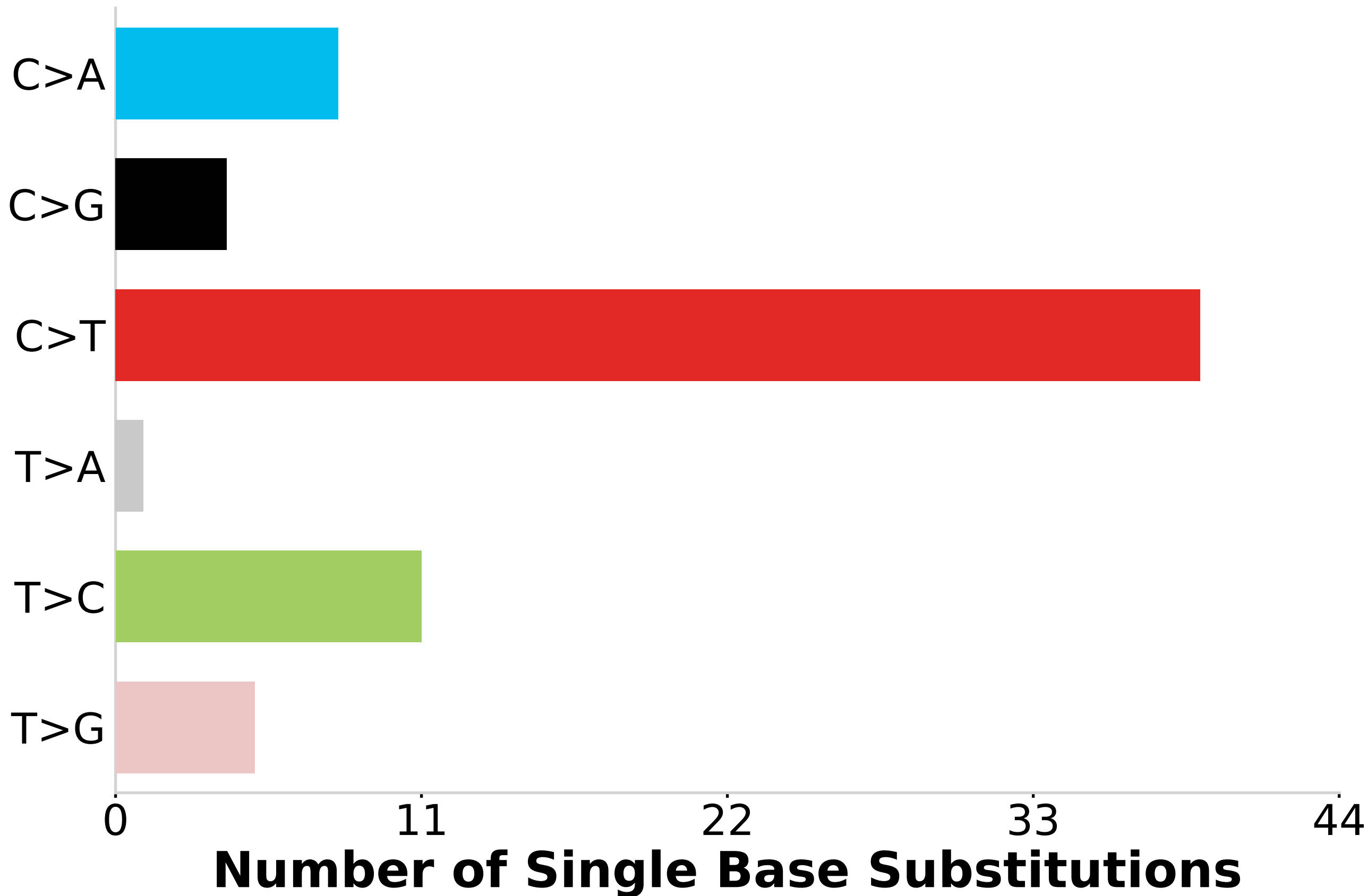
TCGA-ZF-AA4R-01A-11D-A38G-08: 56 subs



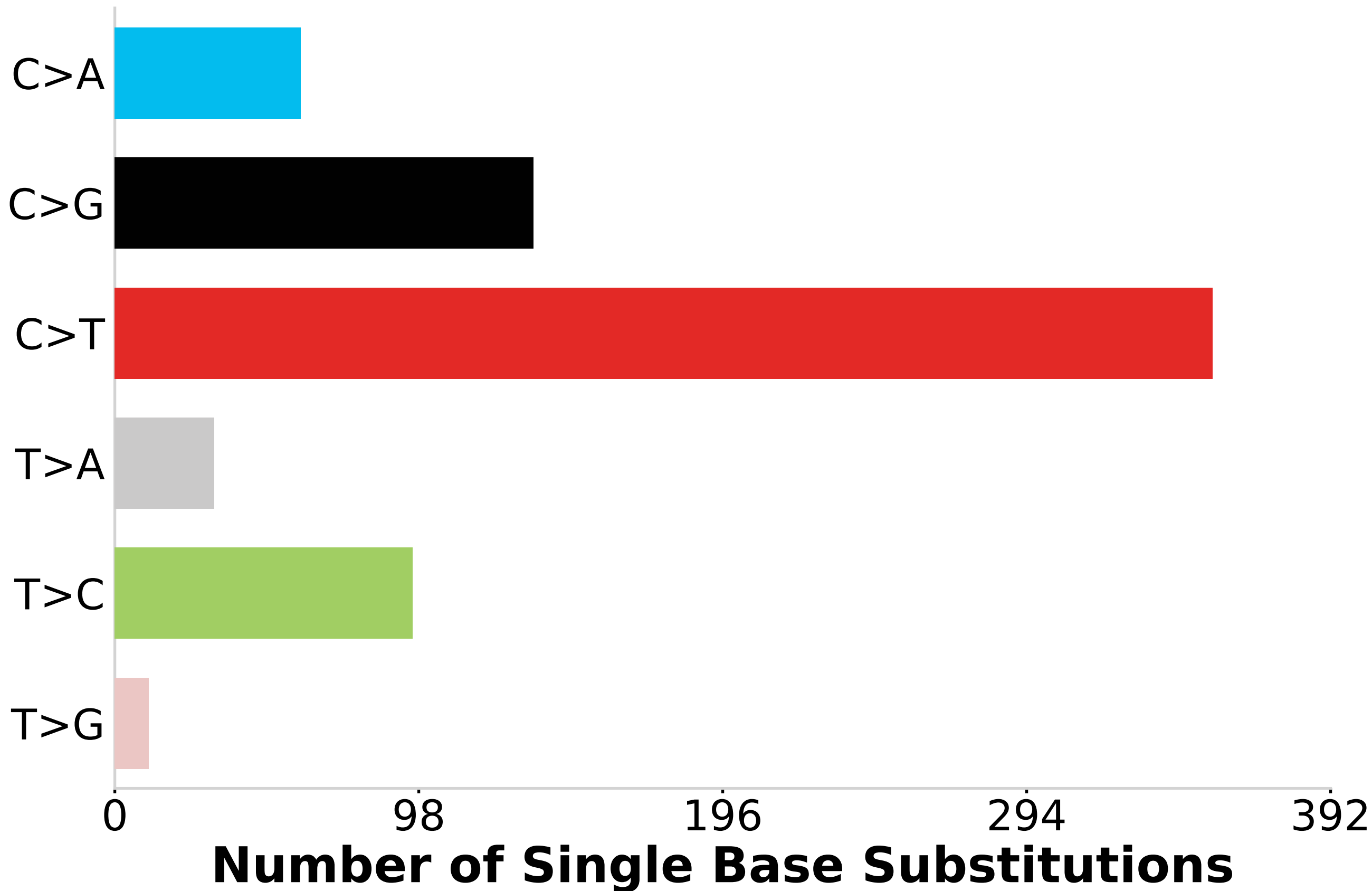
TCGA-ZF-AA4T-01A-11D-A38G-08: 99 subs



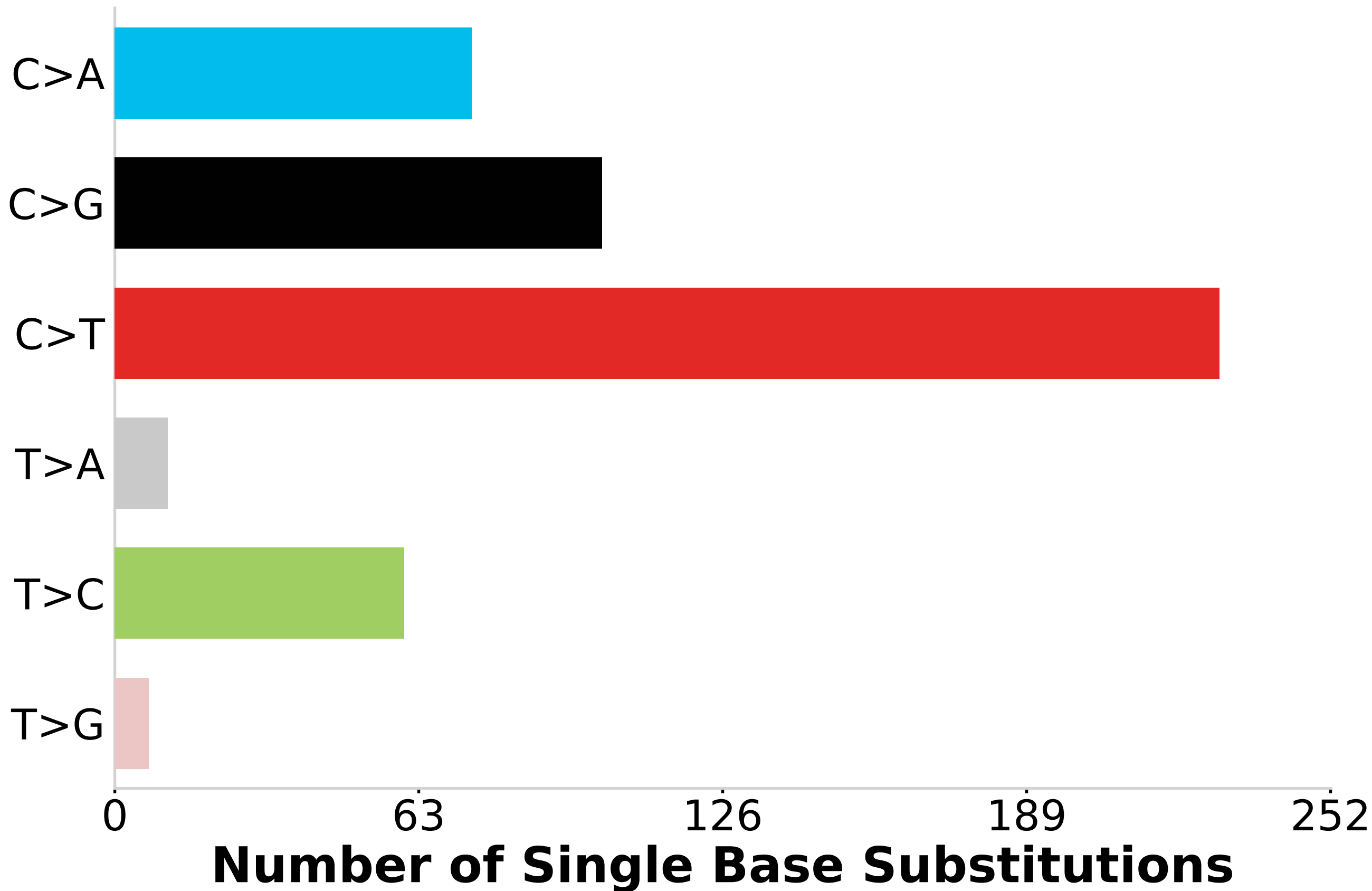
TCGA-ZF-AA4U-01A-11D-A38G-08: 68 subs



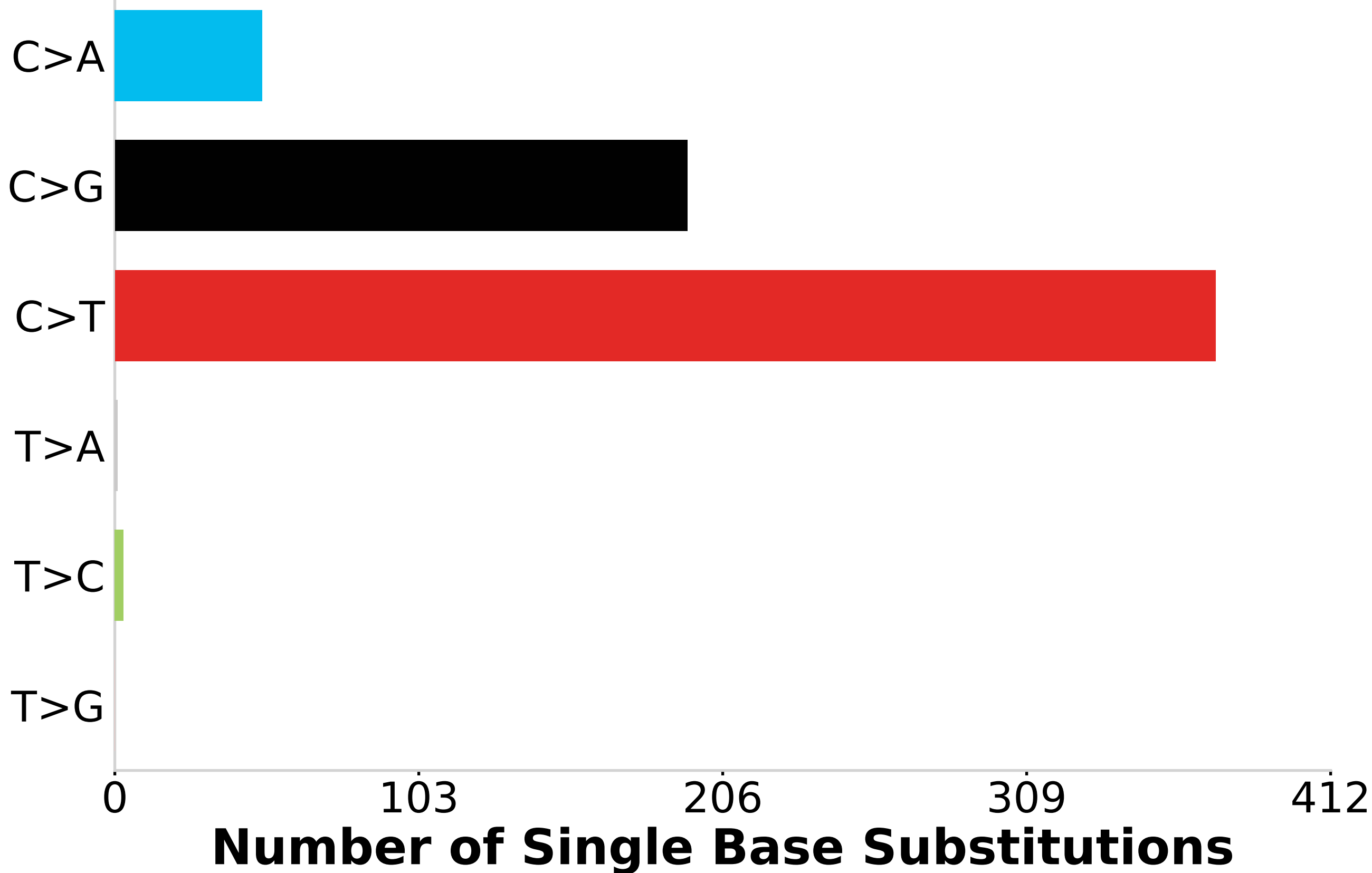
TCGA-ZF-AA4V-01A-11D-A38G-08: 688 sub



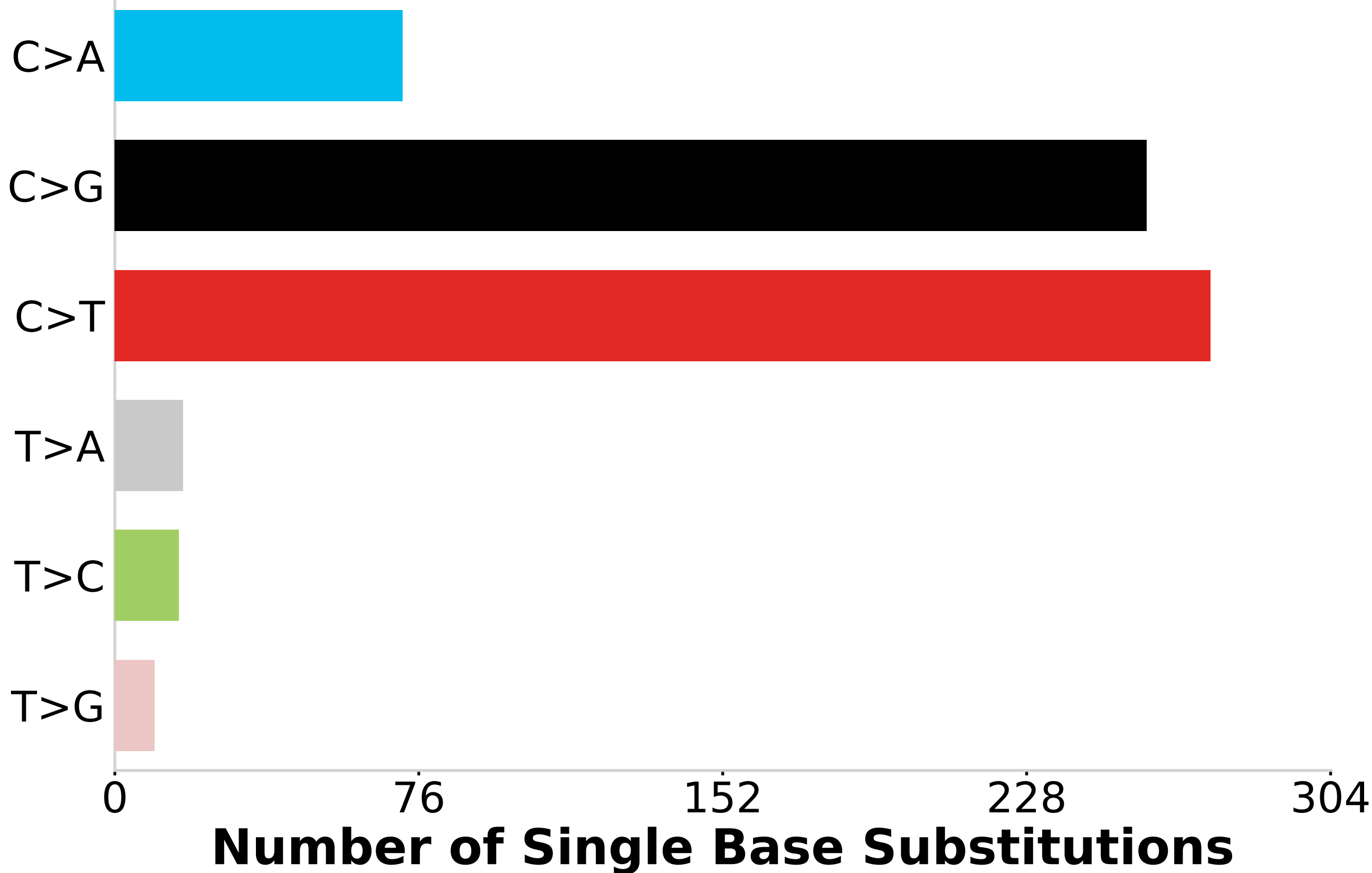
TCGA-ZF-AA4W-01A-12D-A38G-08: 482 su



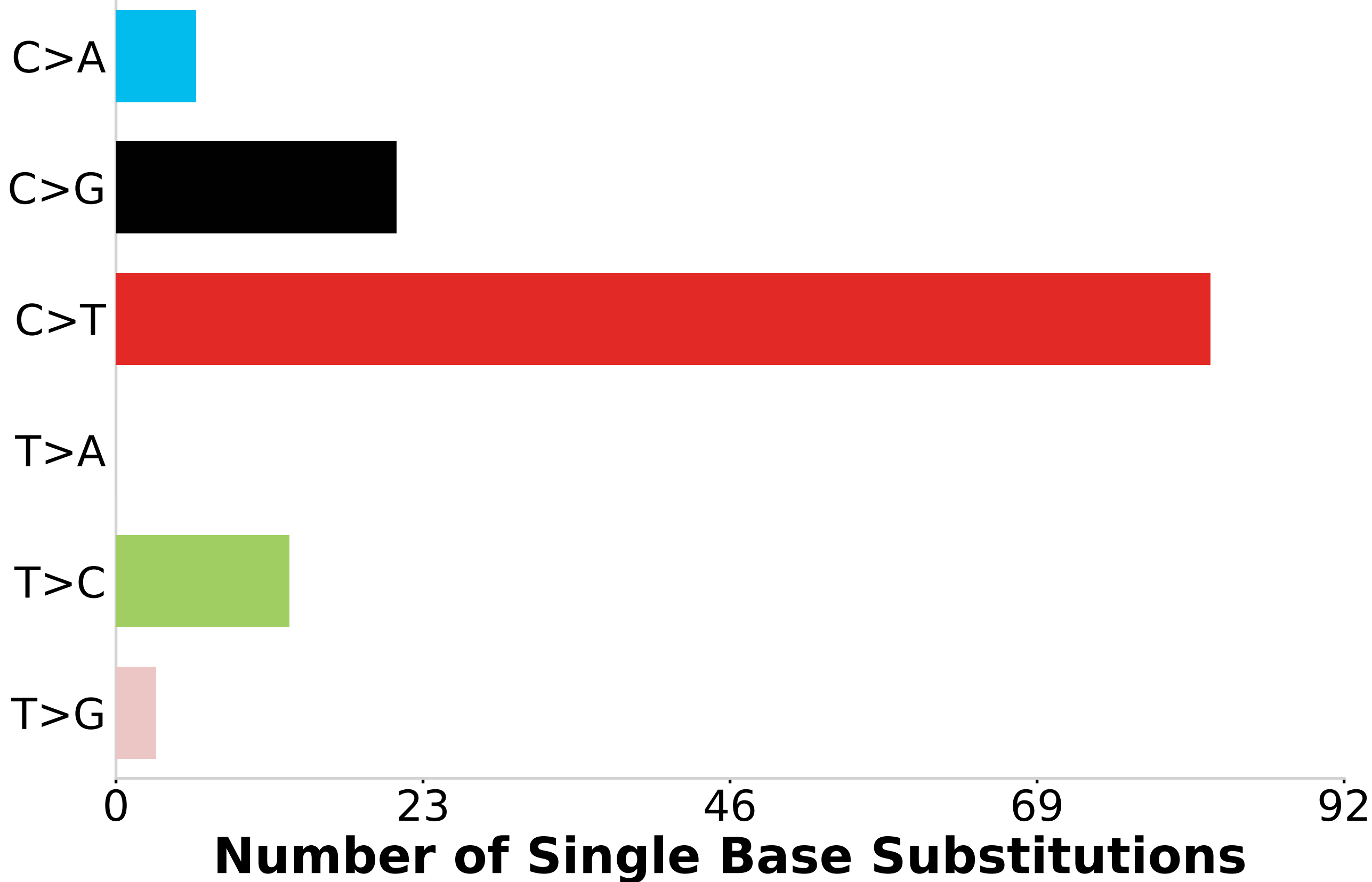
TCGA-ZF-AA4X-01A-11D-A38G-08: 621 sub



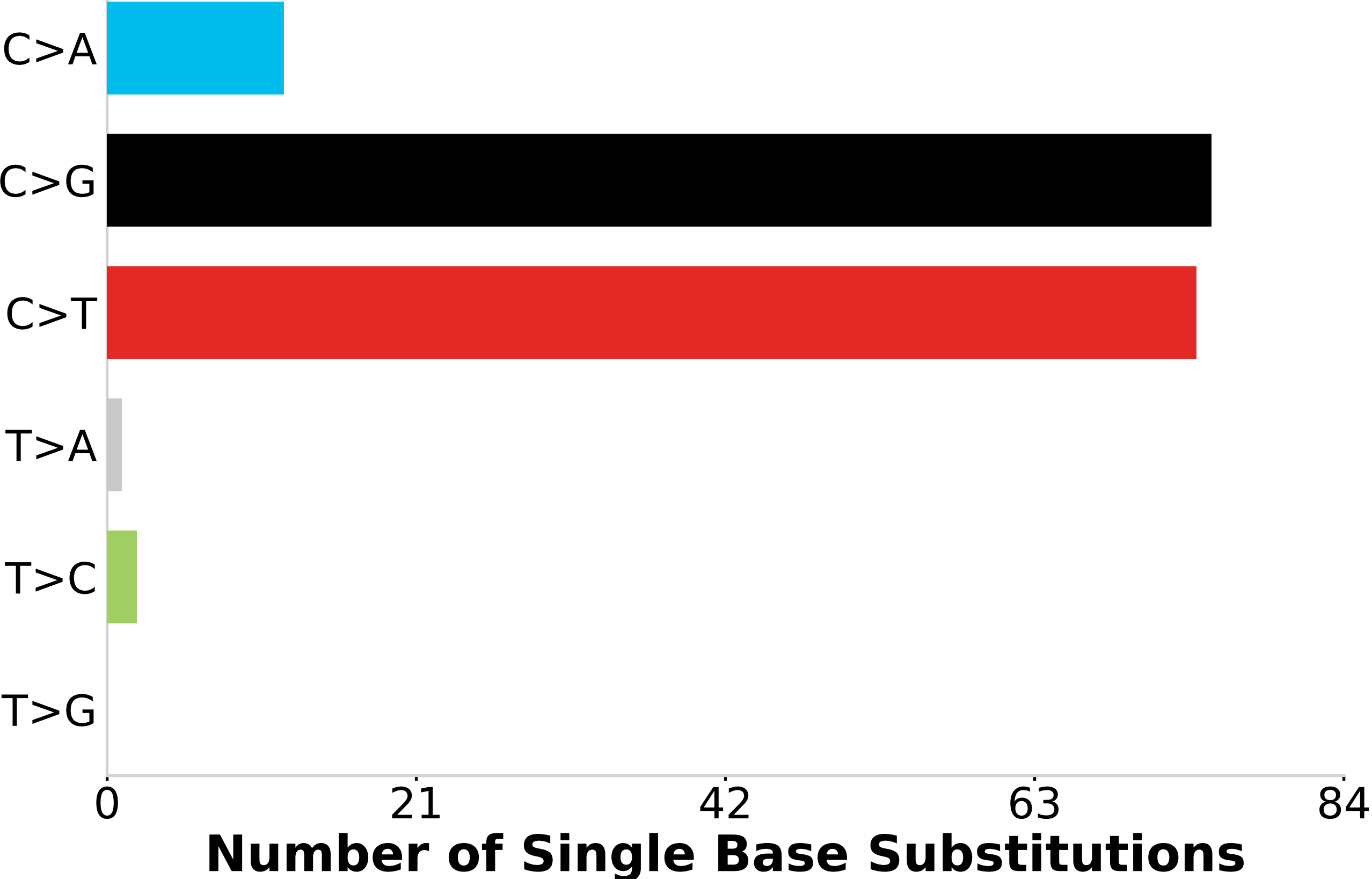
TCGA-ZF-AA51-01A-21D-A391-08: 647 sub



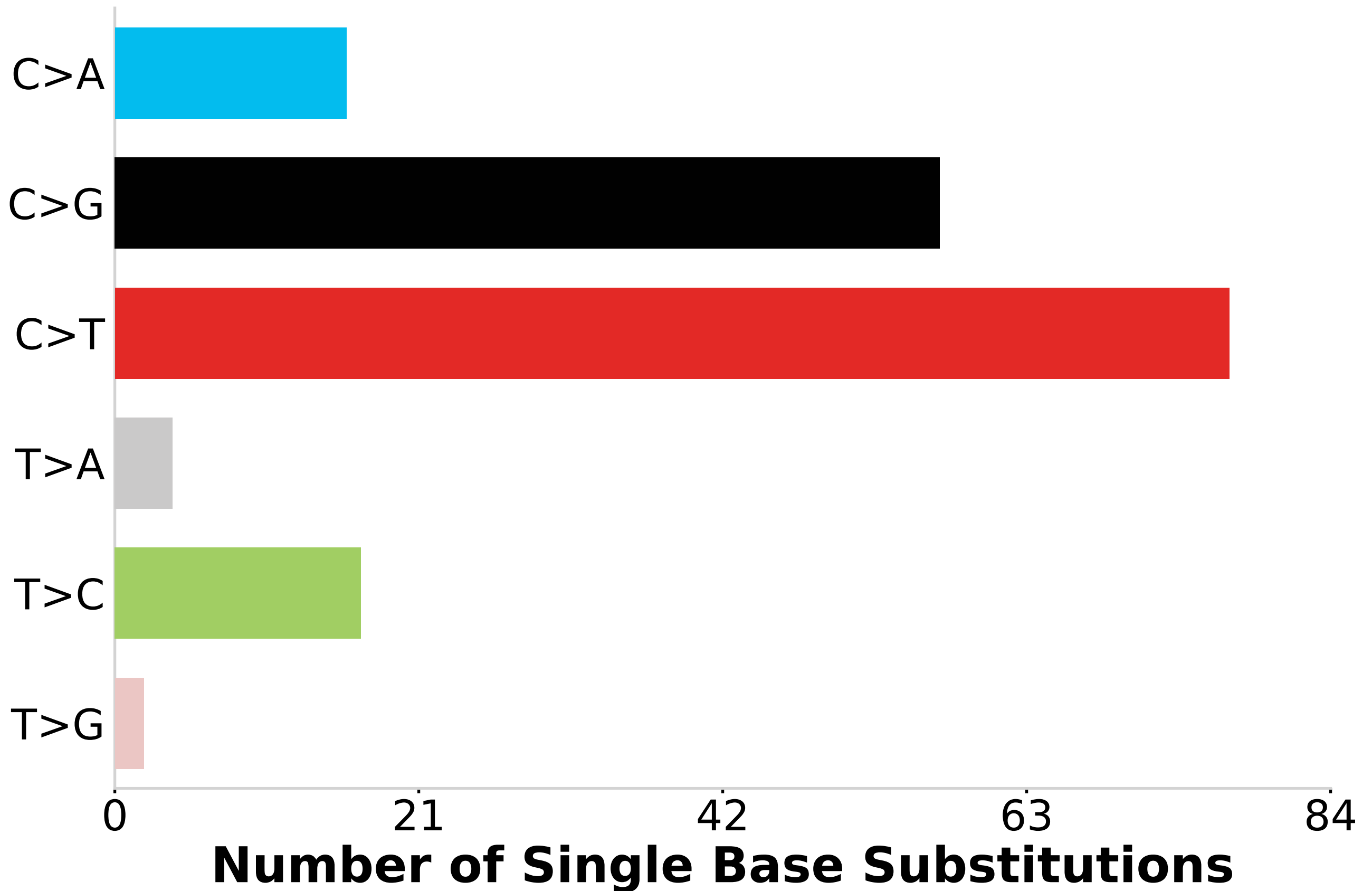
TCGA-ZF-AA52-01A-12D-A391-08: 125 sub



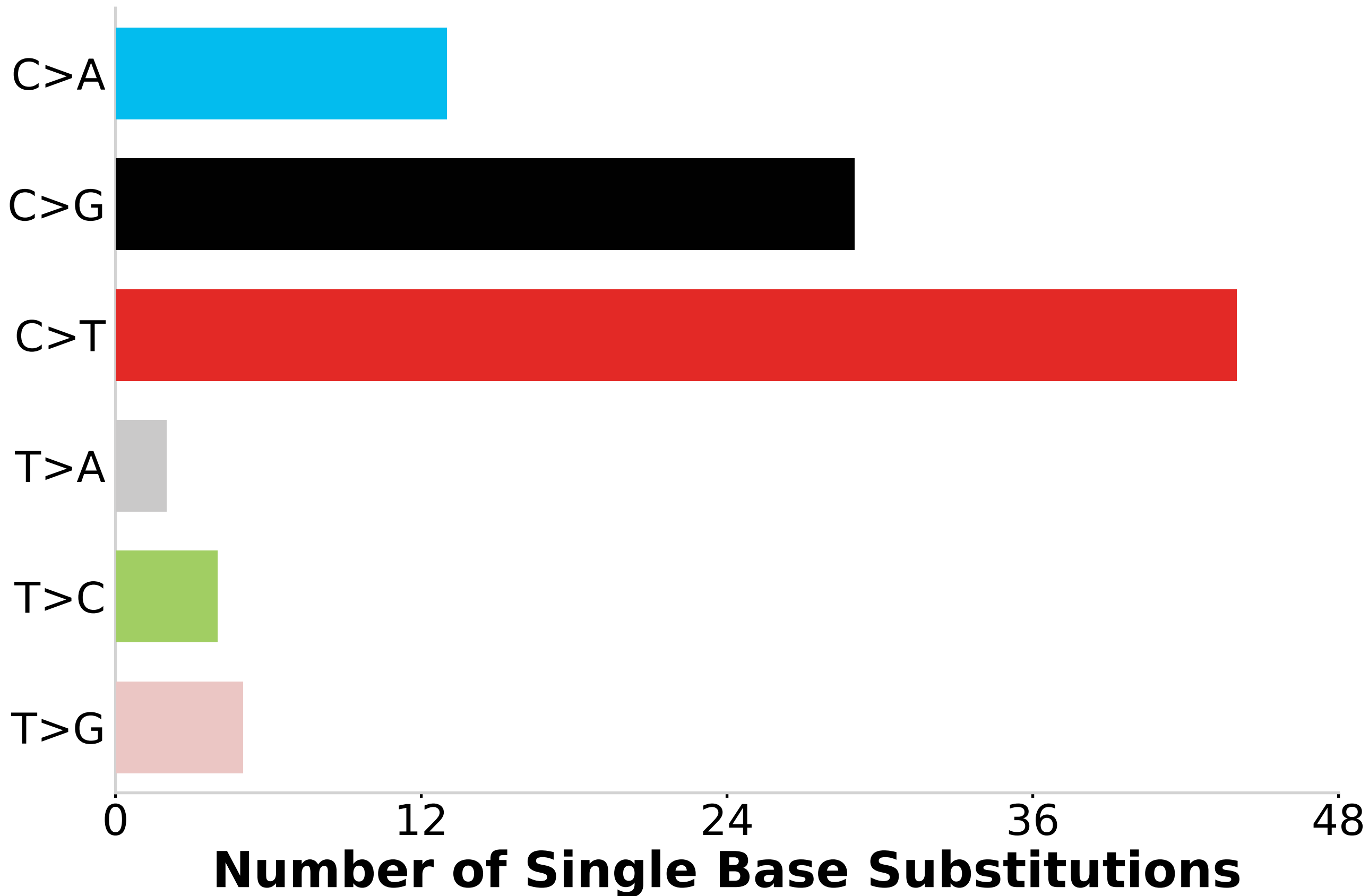
TCGA-ZF-AA53-01A-11D-A391-08: 164 sub



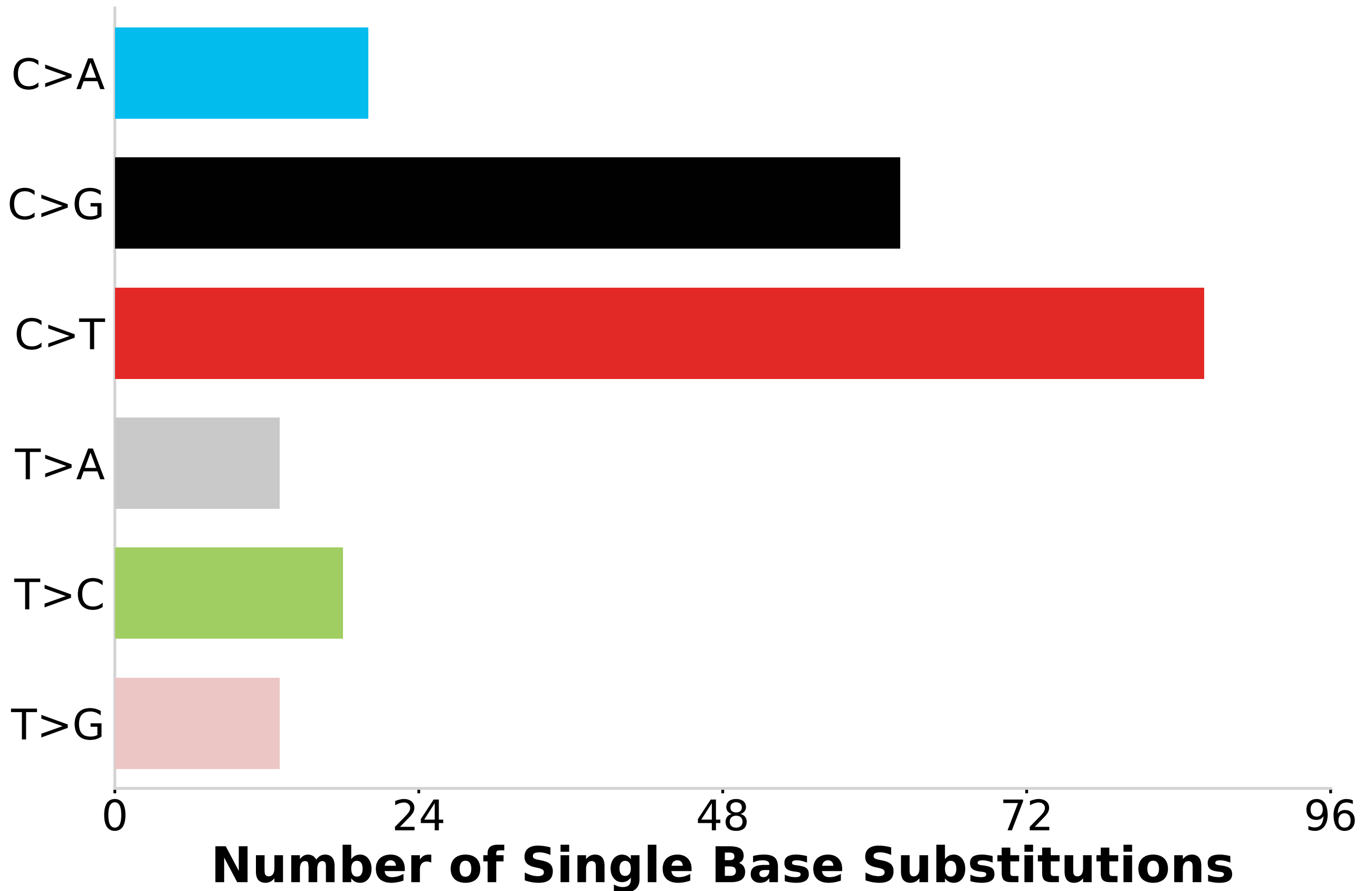
TCGA-ZF-AA54-01A-11D-A391-08: 173 sub



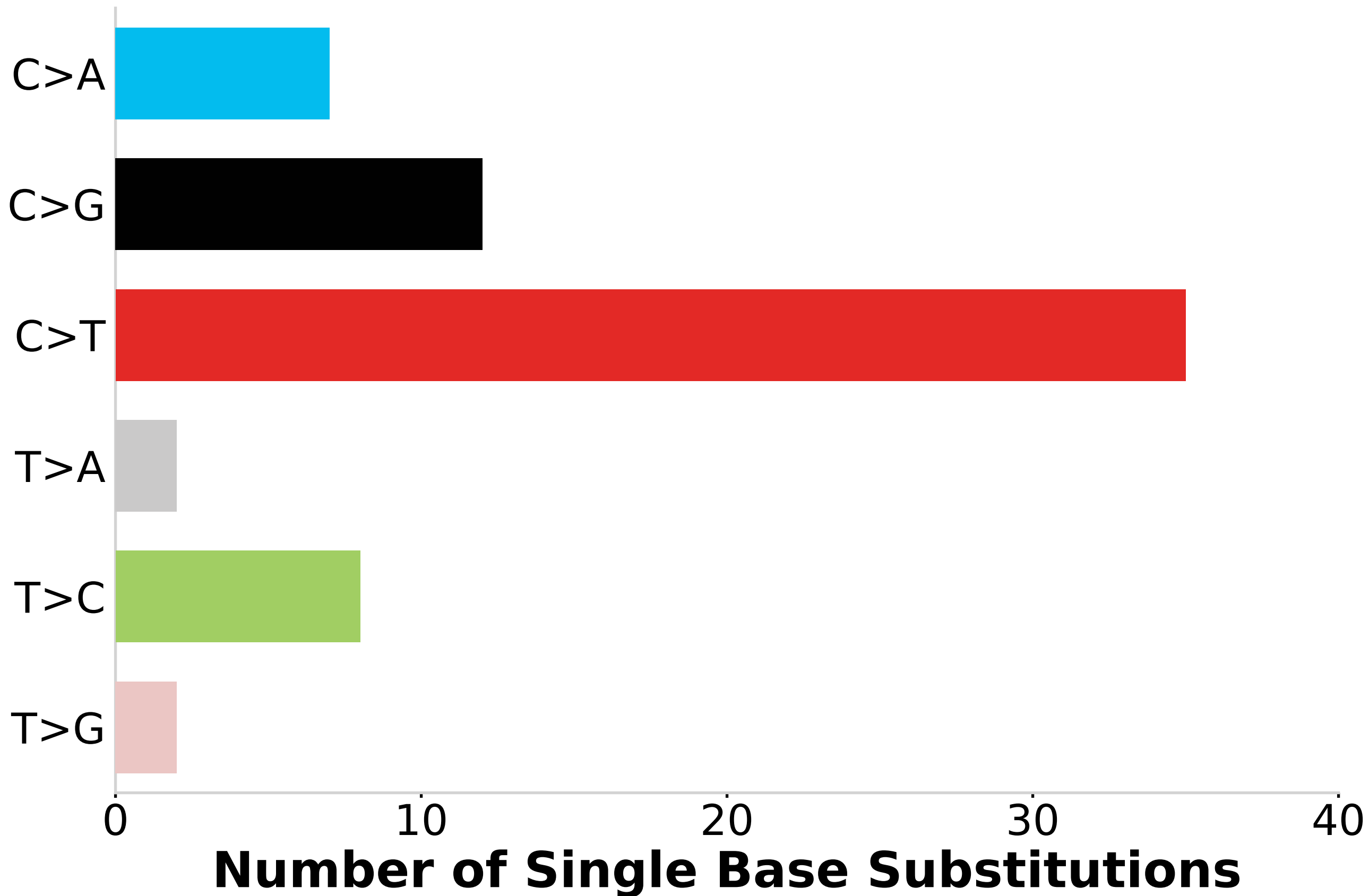
TCGA-ZF-AA56-01A-31D-A391-08: 97 subs



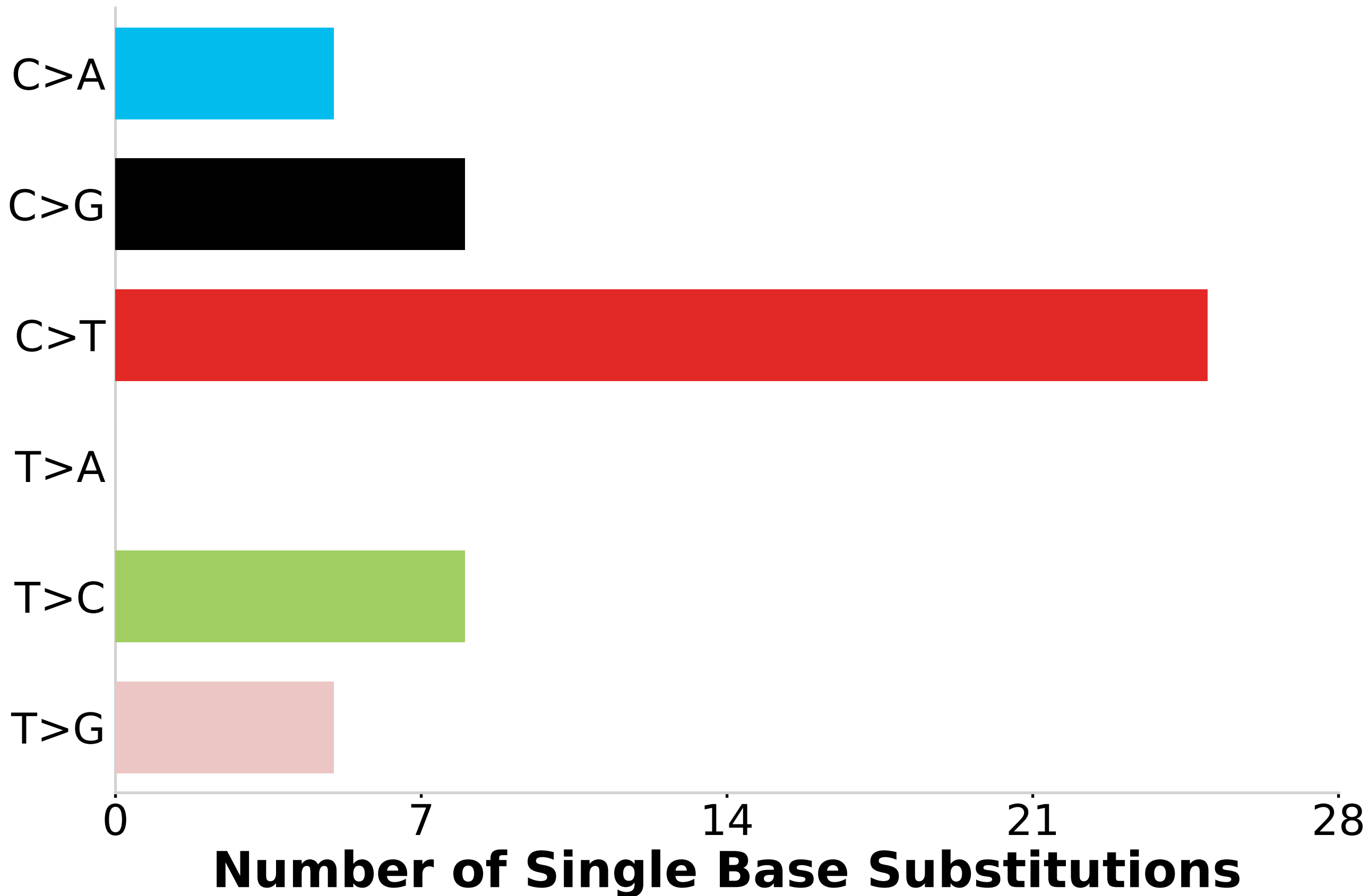
TCGA-ZF-AA58-01A-12D-A42E-08: 212 sub



TCGA-ZF-AA5H-01A-11D-A391-08: 66 subs



TCGA-ZF-AA5N-01A-11D-A42E-08: 51 subs



TCGA-ZF-AA5P-01A-11D-A391-08: 45 subs

