

Run Summary

riboHMM Validation Report

Run Timestamp: 2025-07-30T16:06:10.869108

Test Data File: /home/kai/Documents/00_RNA/01_riboHMM_simple_prod/02_Processed_Data/processed_top500_raw_nosplit.npz

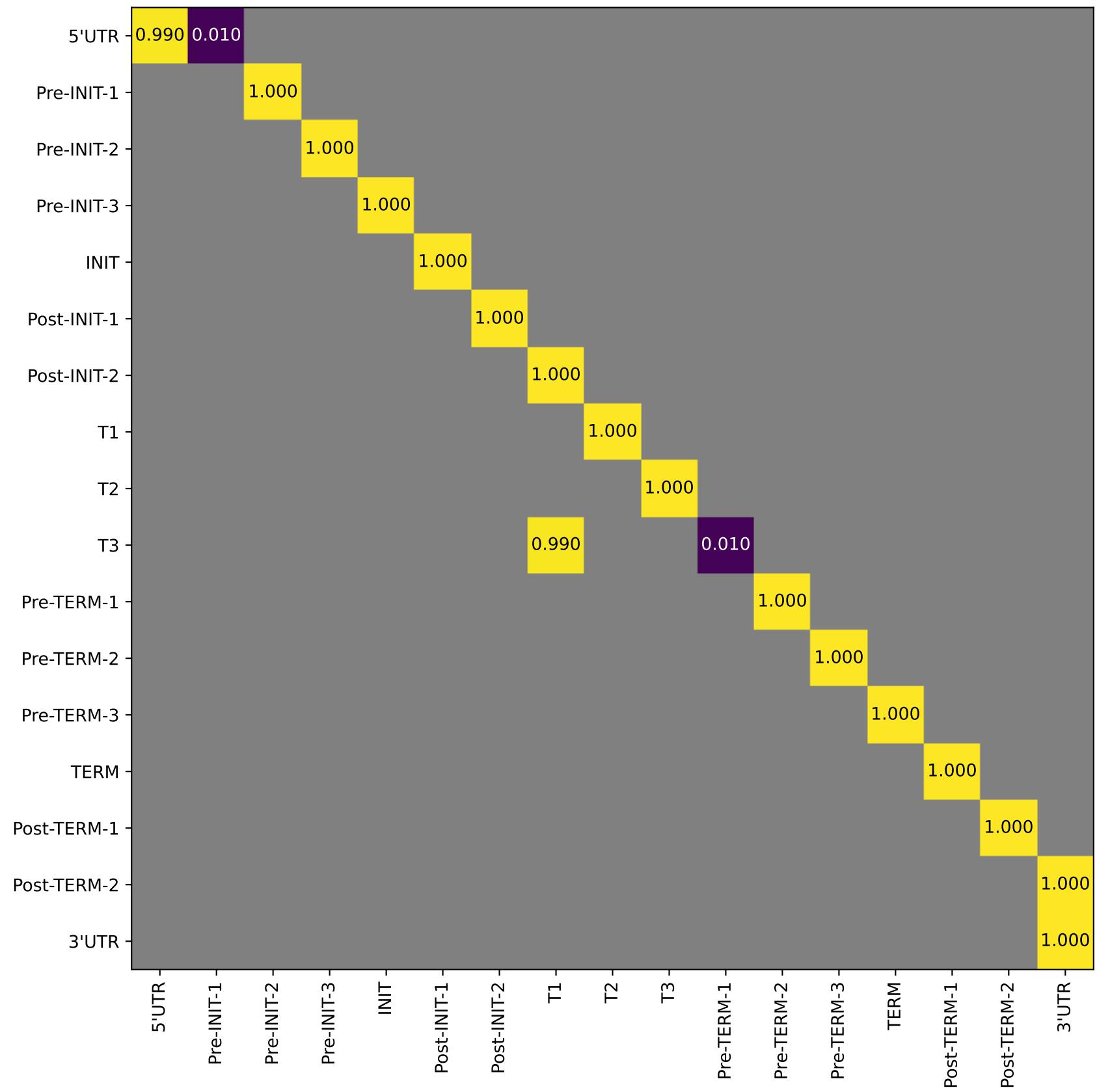
Trained Model File: /home/kai/Documents/00_RNA/01_riboHMM_simple_prod/04_Models/model_top500_raw_nosplit.joblib

Model Config File: /home/kai/Documents/00_RNA/01_riboHMM_simple_prod/model_config.json

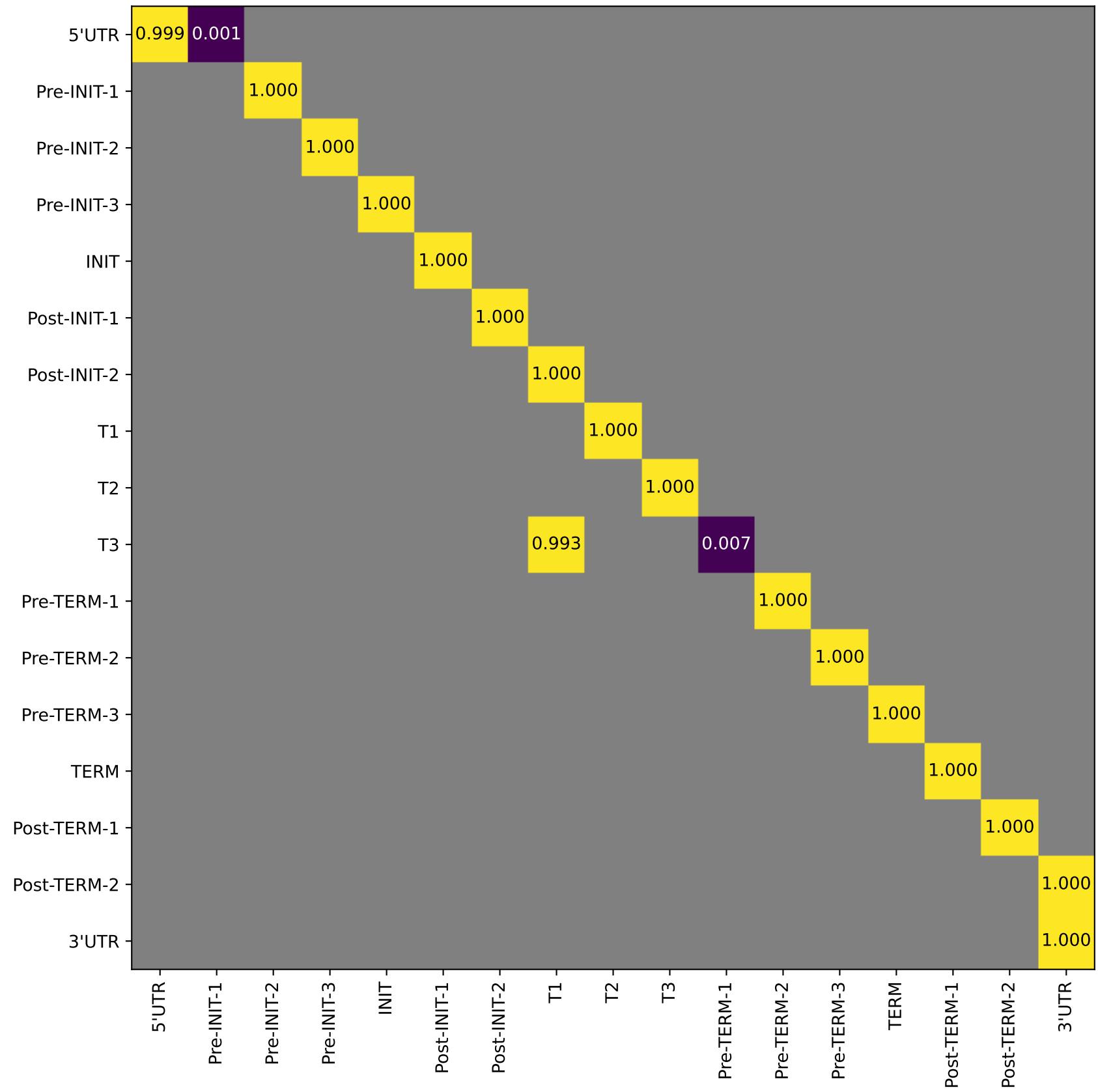
ORF Annotations File: /home/kai/Documents/00_RNA/01_riboHMM_simple_prod/01_Reference_Files/MANE_CDS_coordinates.csv

Number of Transcripts in Test Set: 500

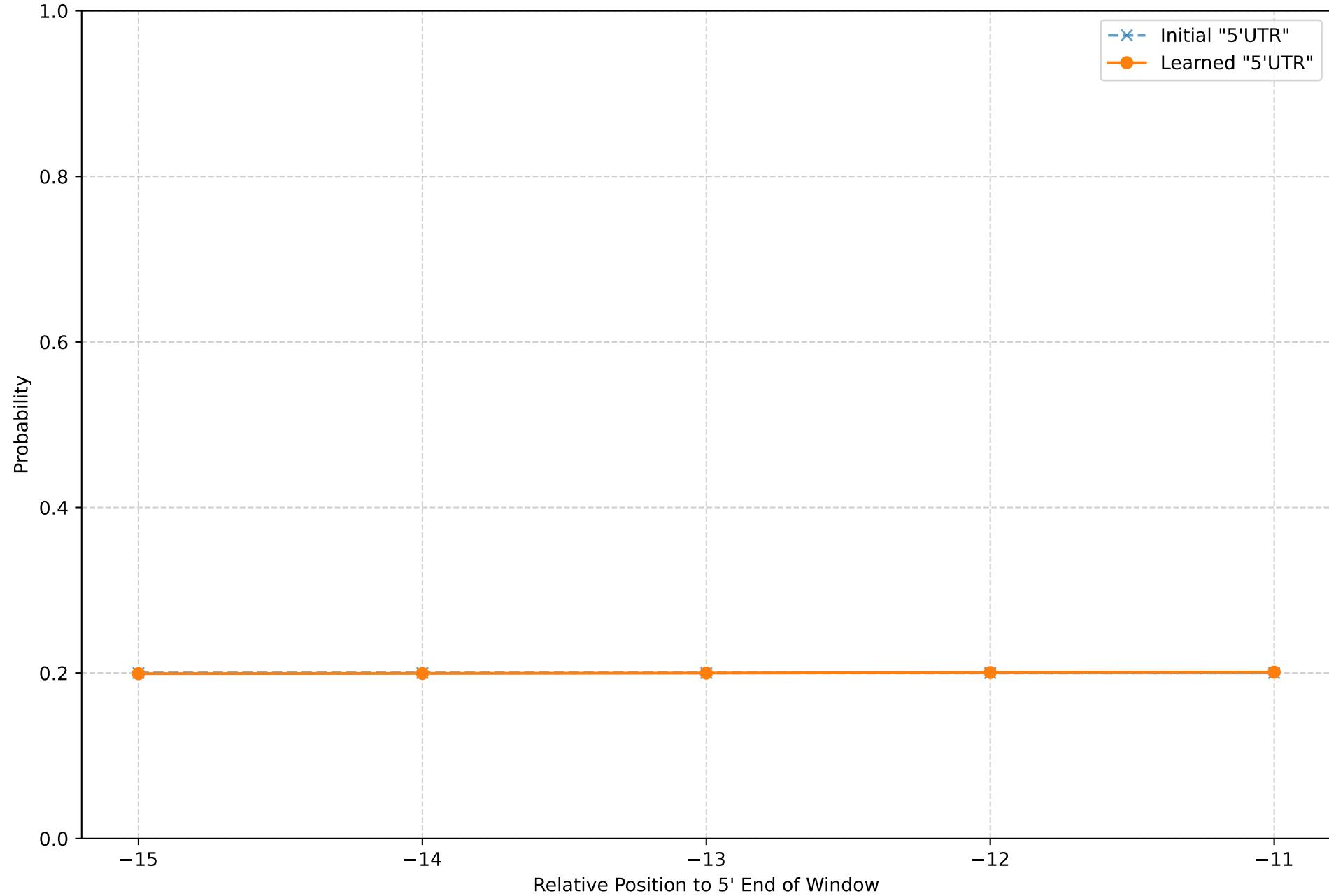
Initial Transition Matrix



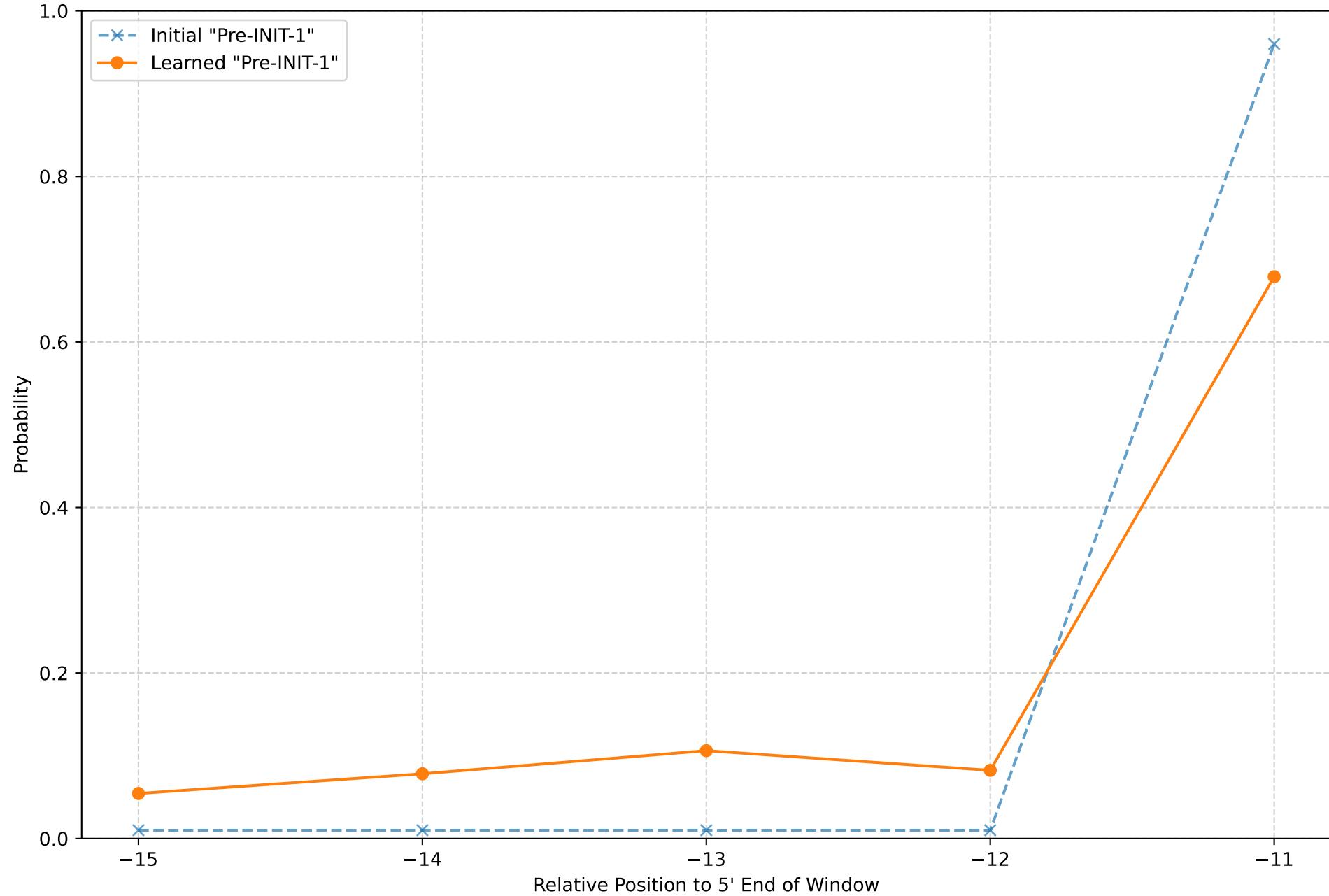
Learned Transition Matrix



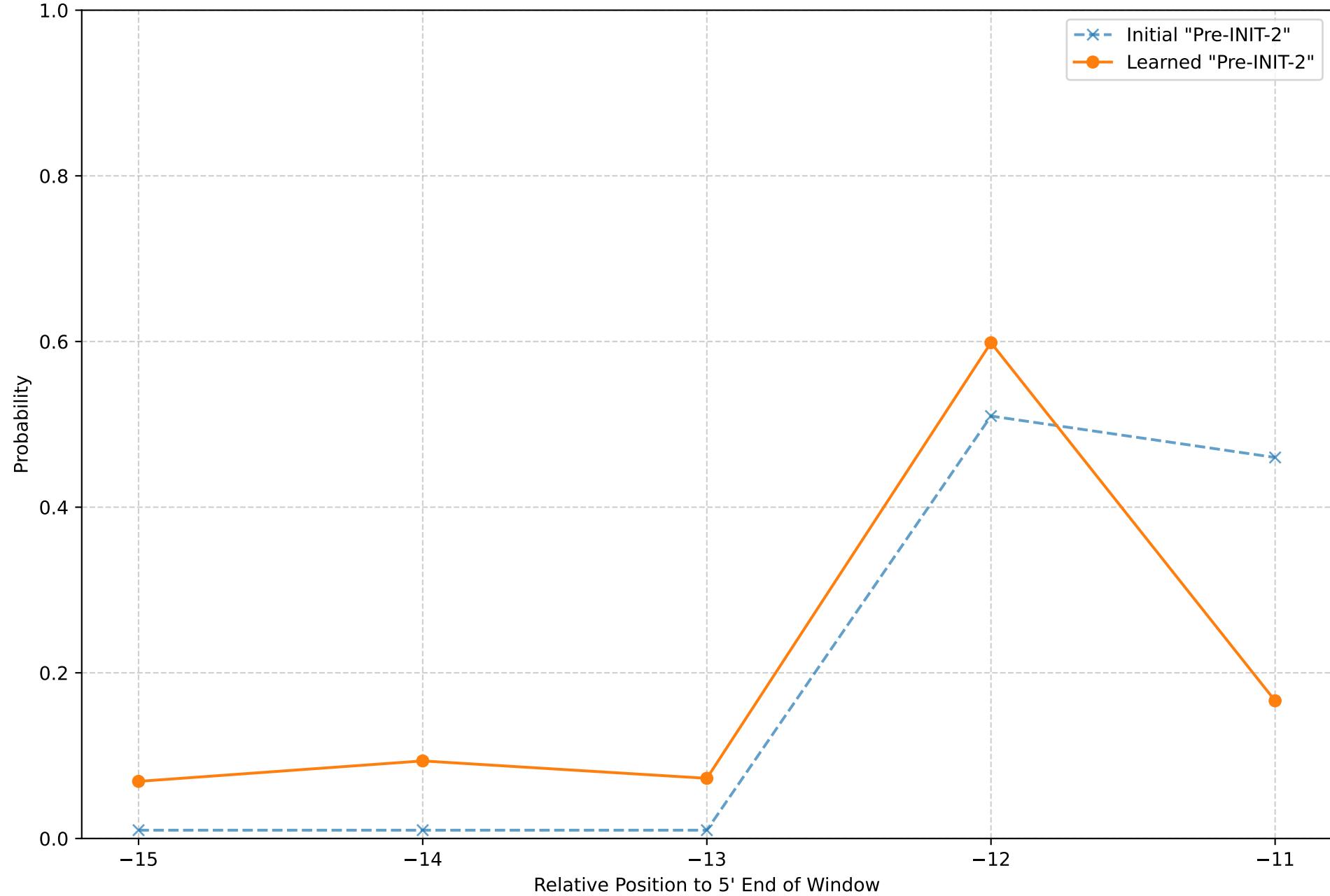
Emission Probabilities: State "5'UTR"



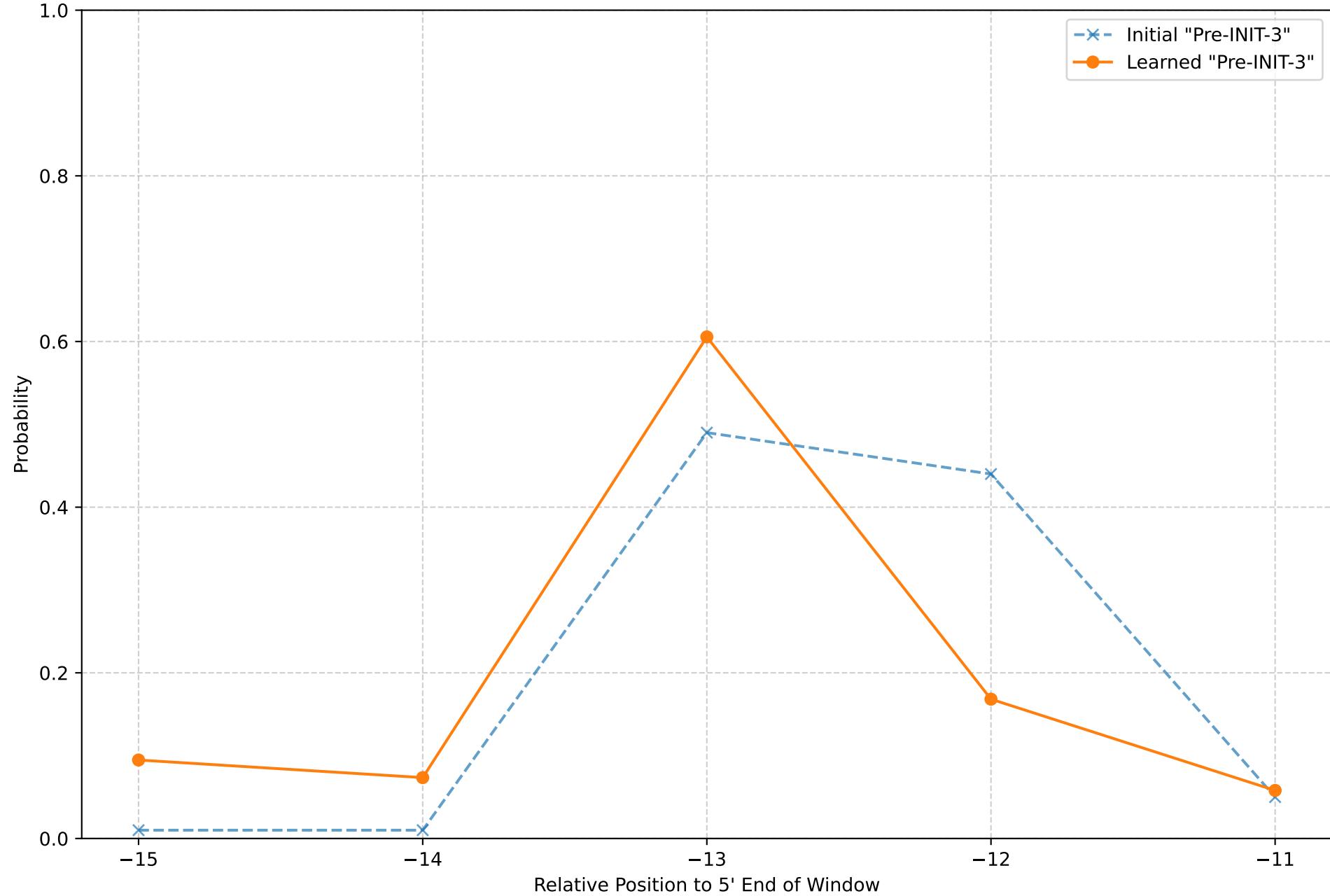
Emission Probabilities: State "Pre-INIT-1"



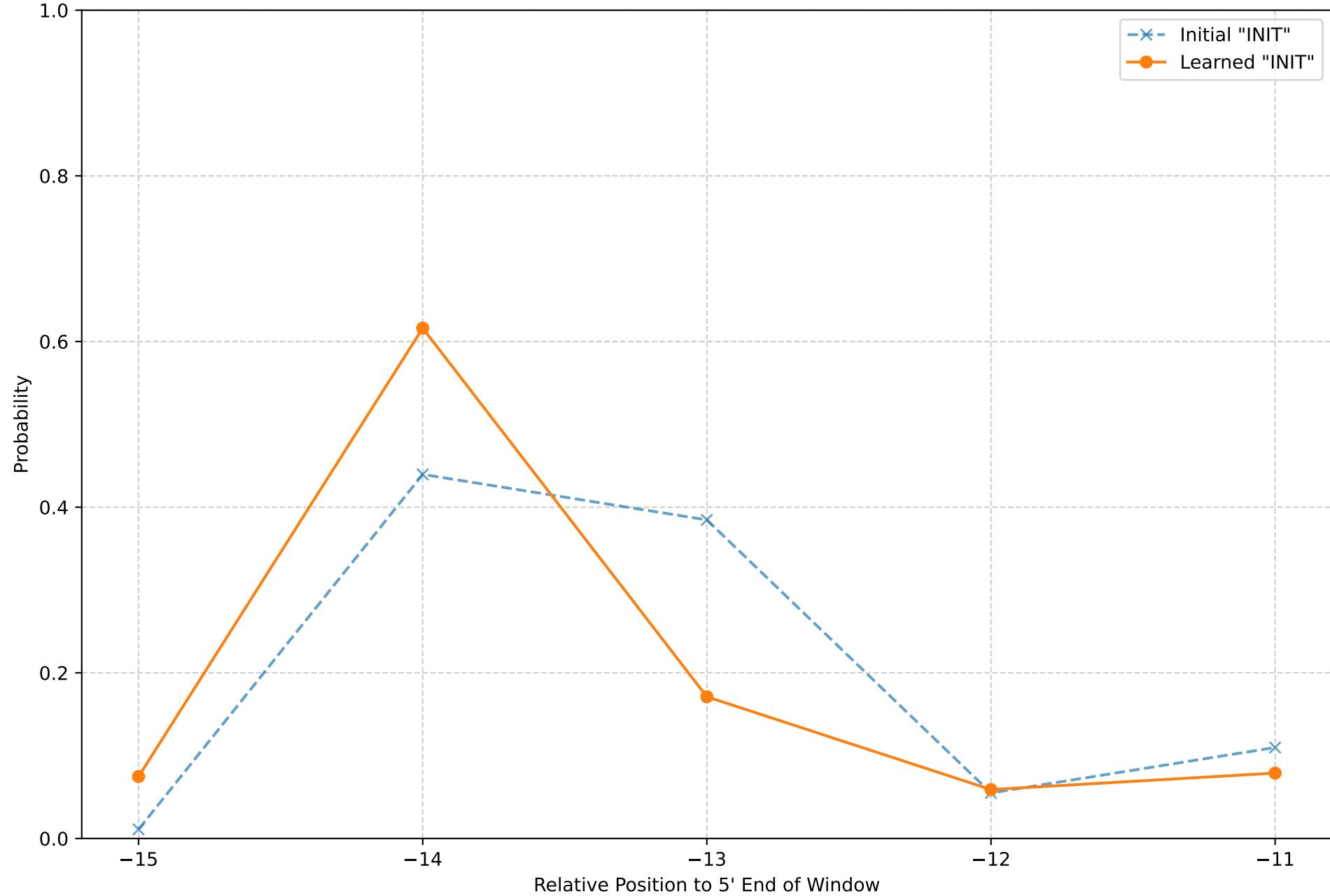
Emission Probabilities: State "Pre-INIT-2"



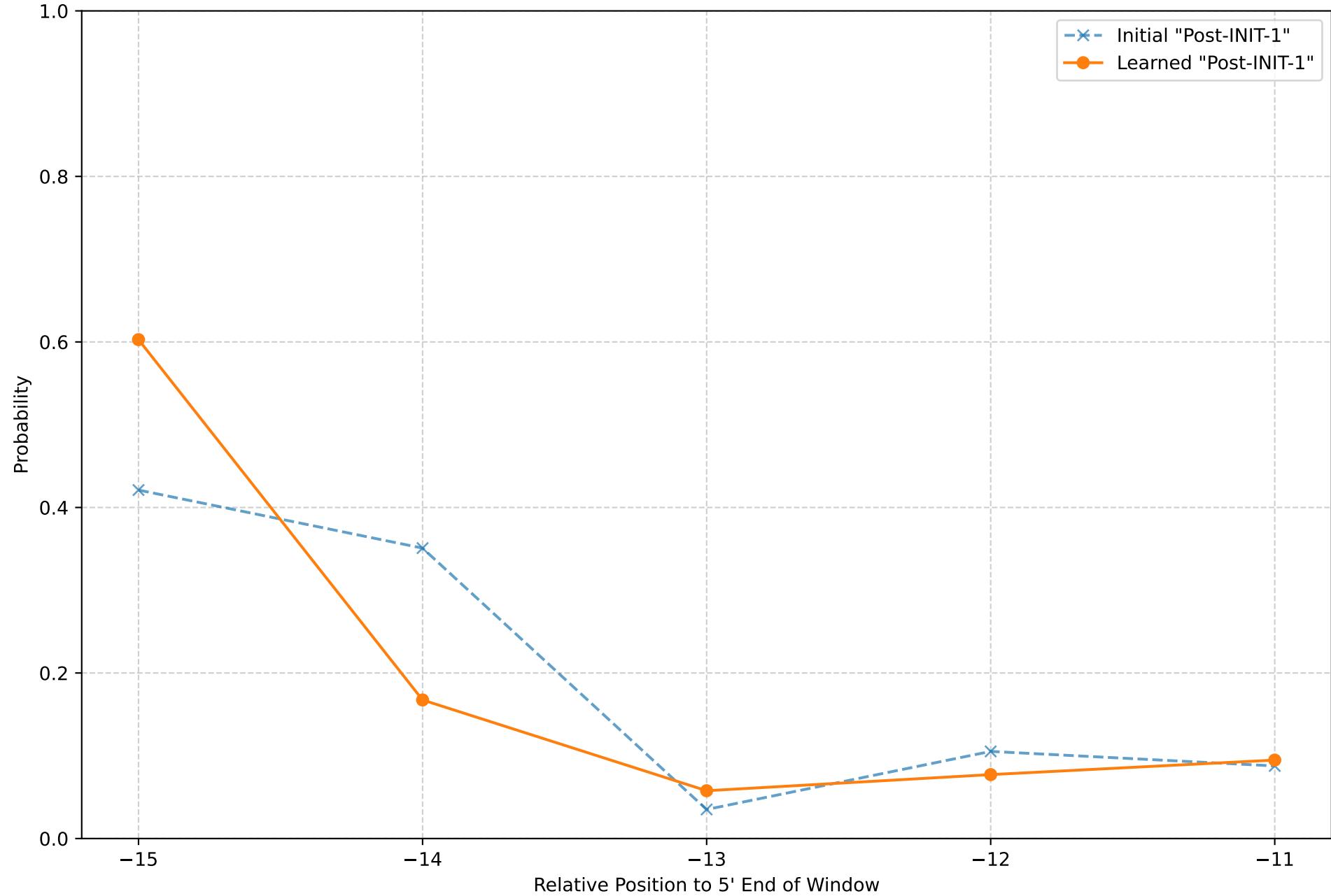
Emission Probabilities: State "Pre-INIT-3"



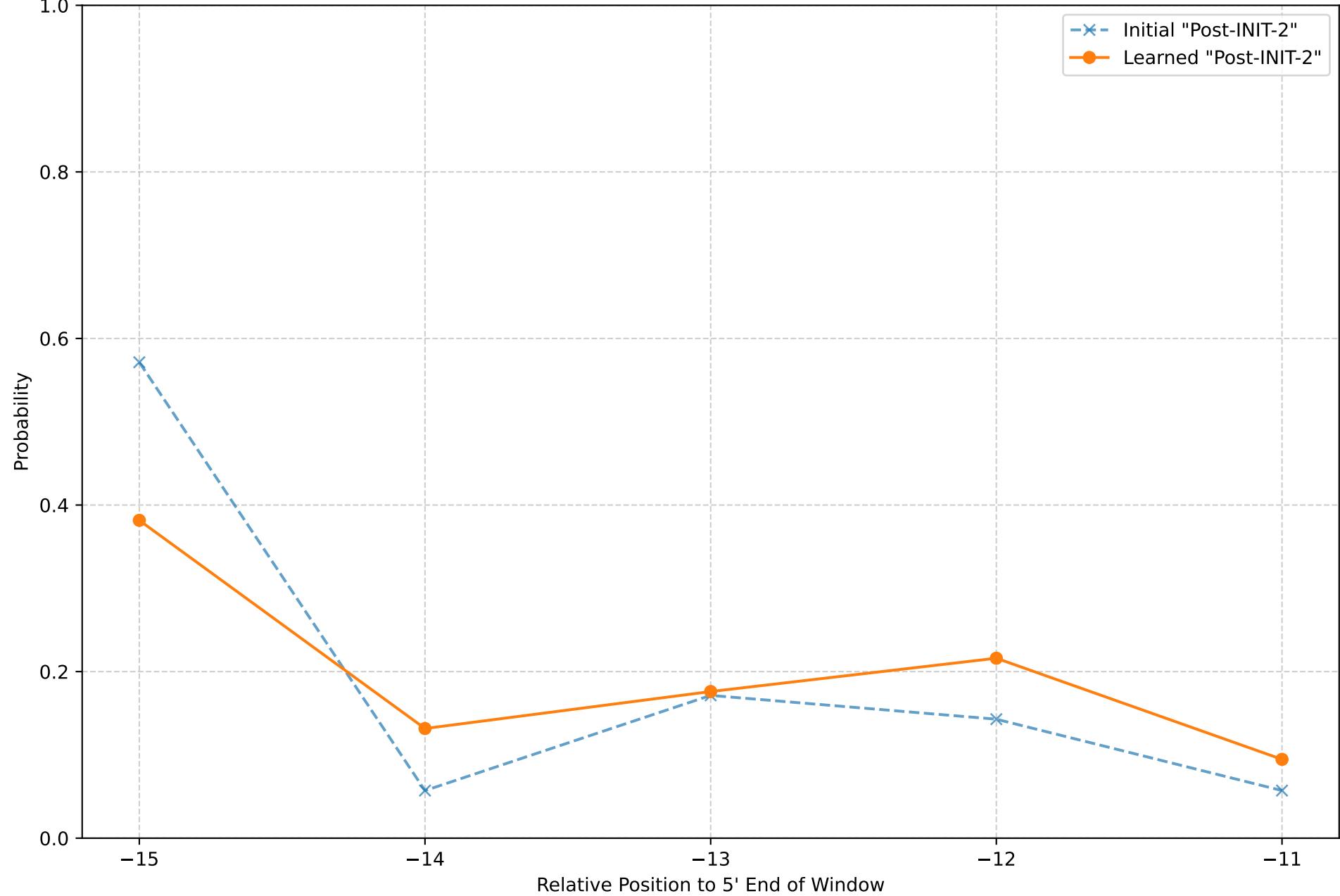
Emission Probabilities: State "INIT"



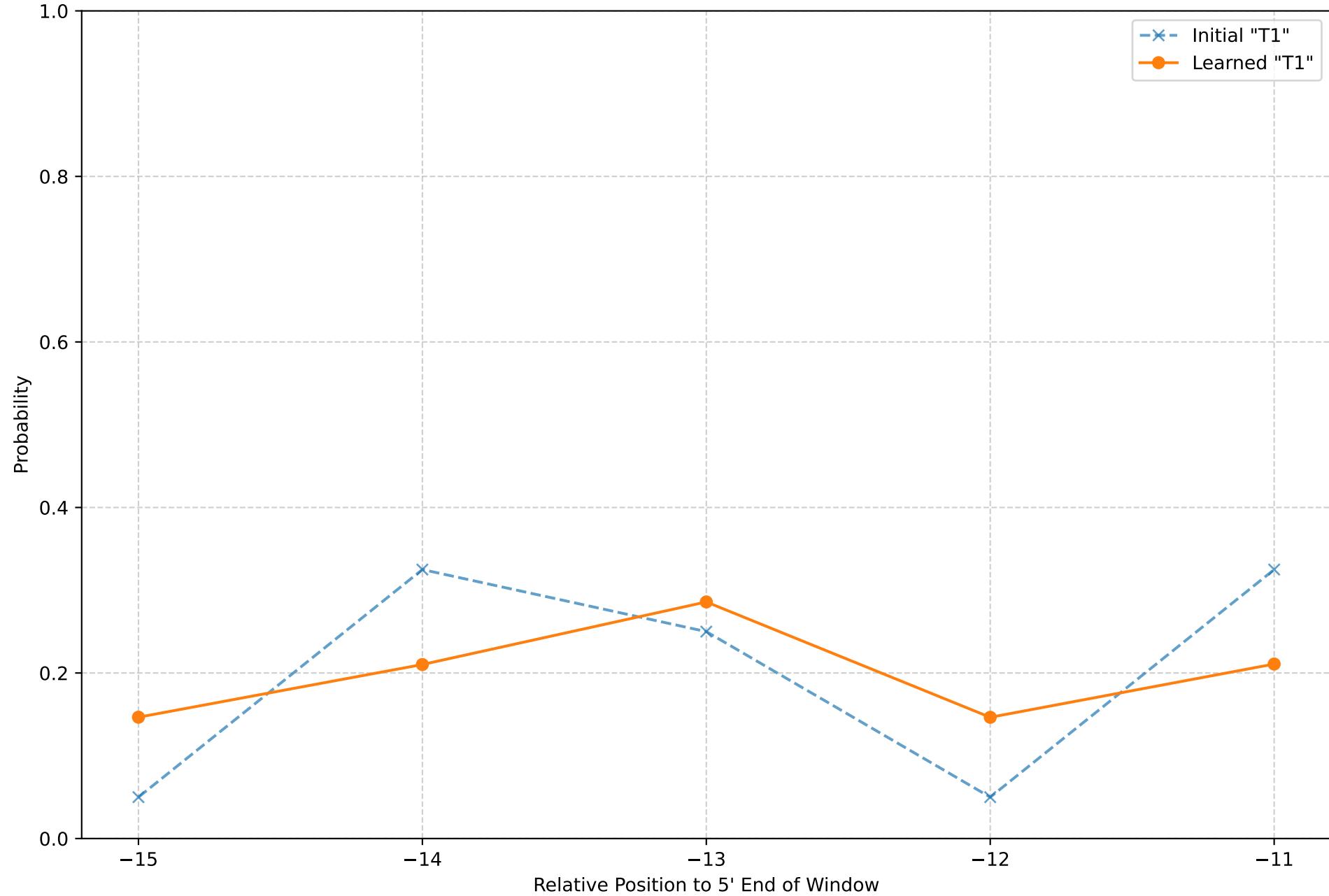
Emission Probabilities: State "Post-INIT-1"



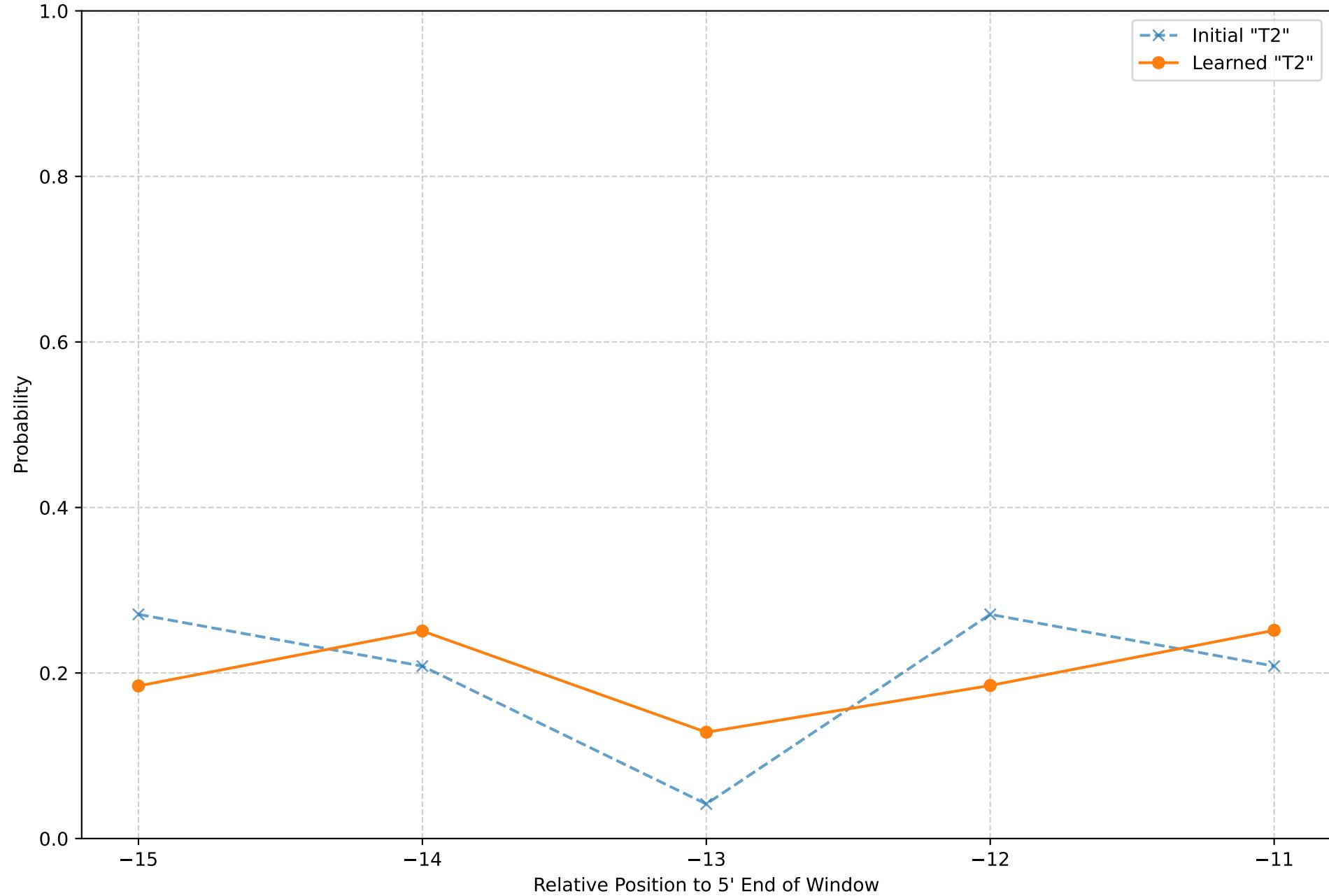
Emission Probabilities: State "Post-INIT-2"



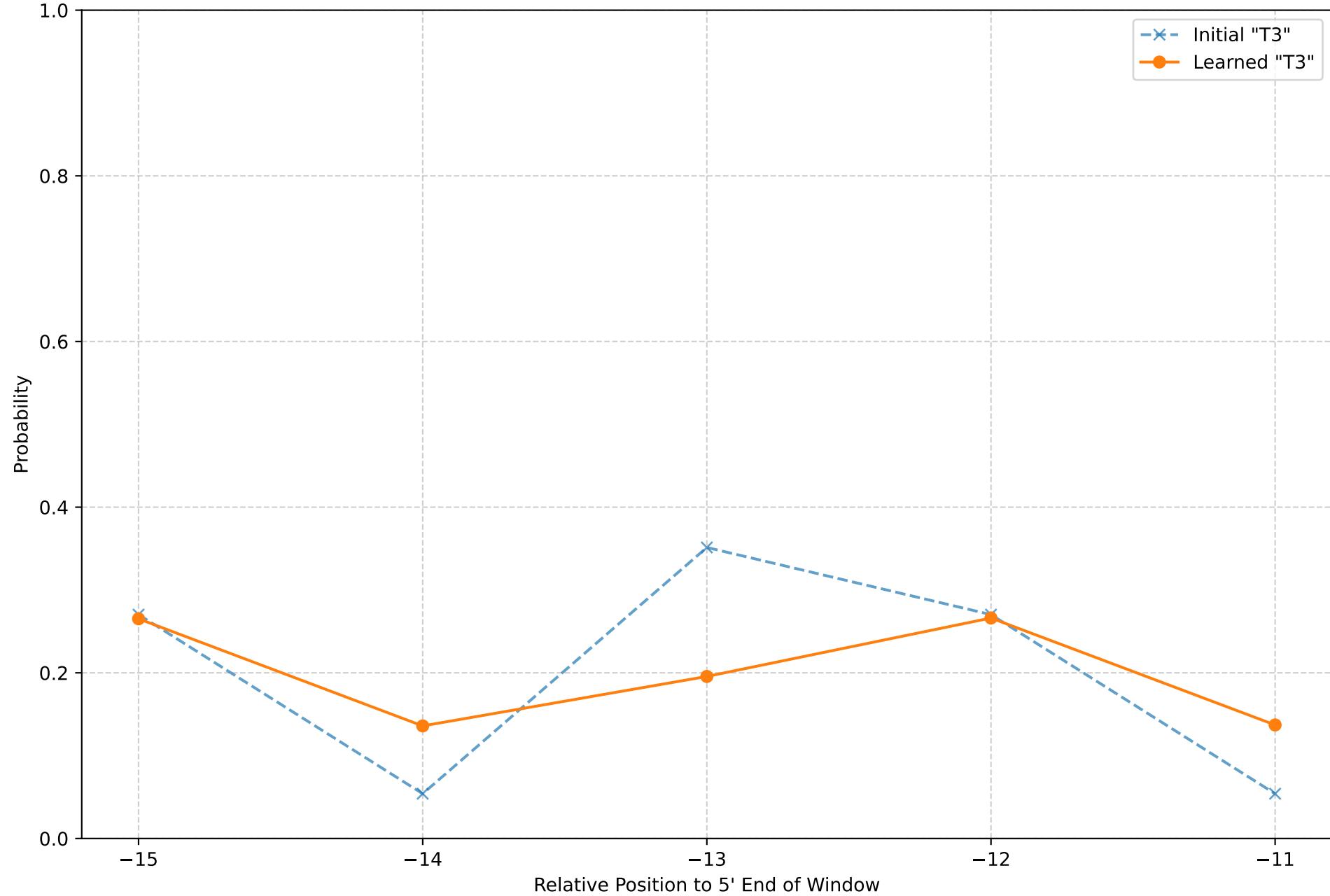
Emission Probabilities: State "T1"



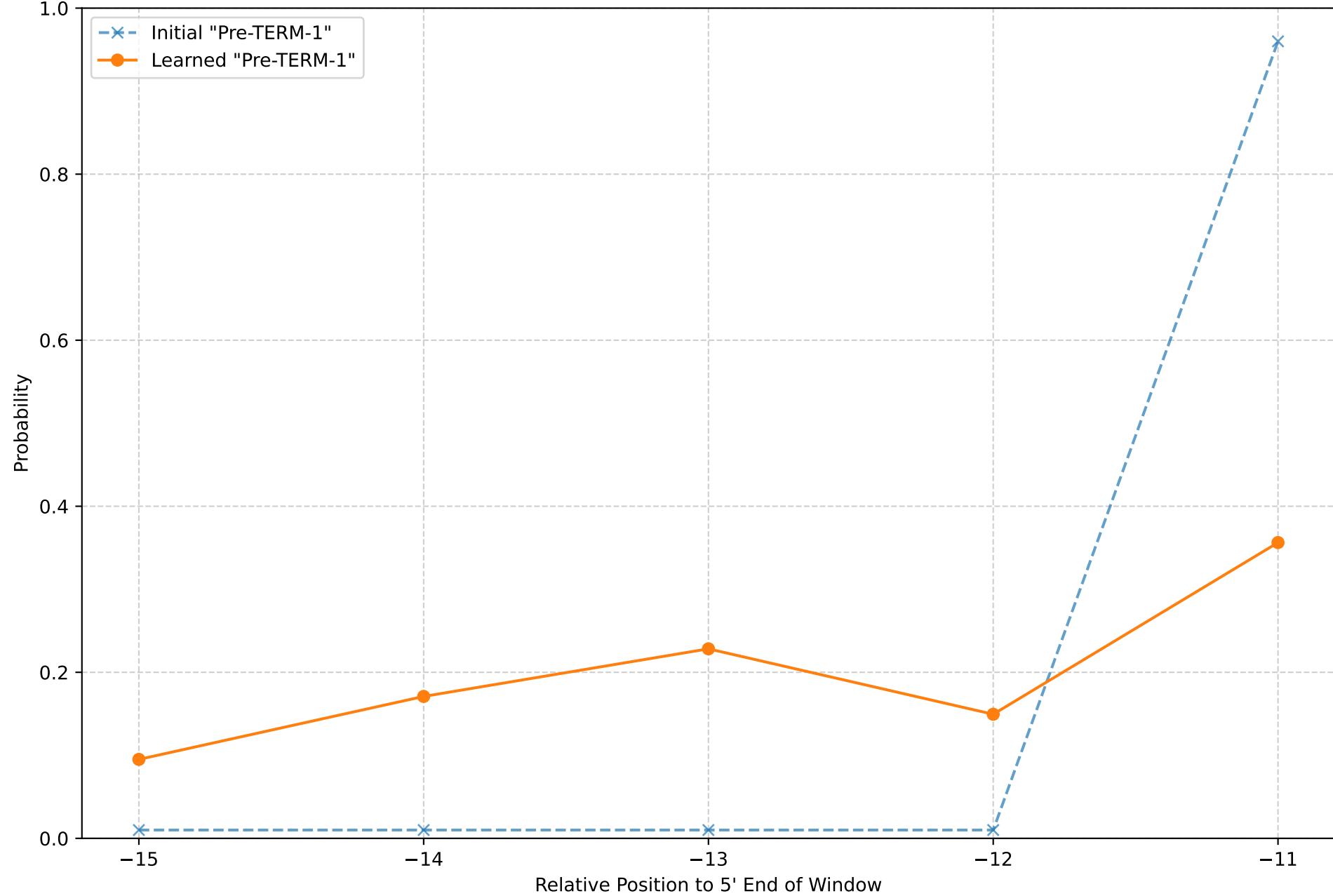
Emission Probabilities: State "T2"



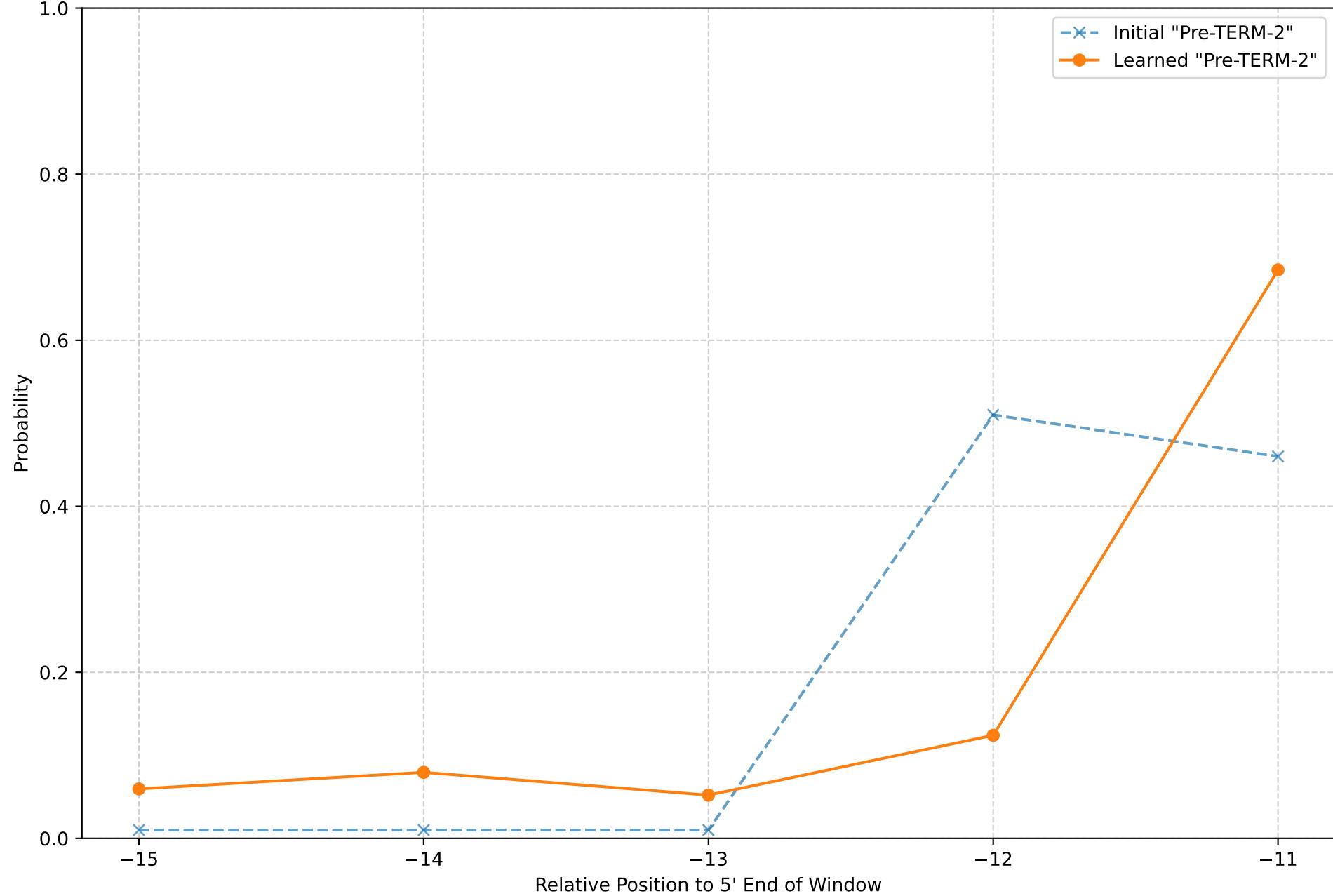
Emission Probabilities: State "T3"



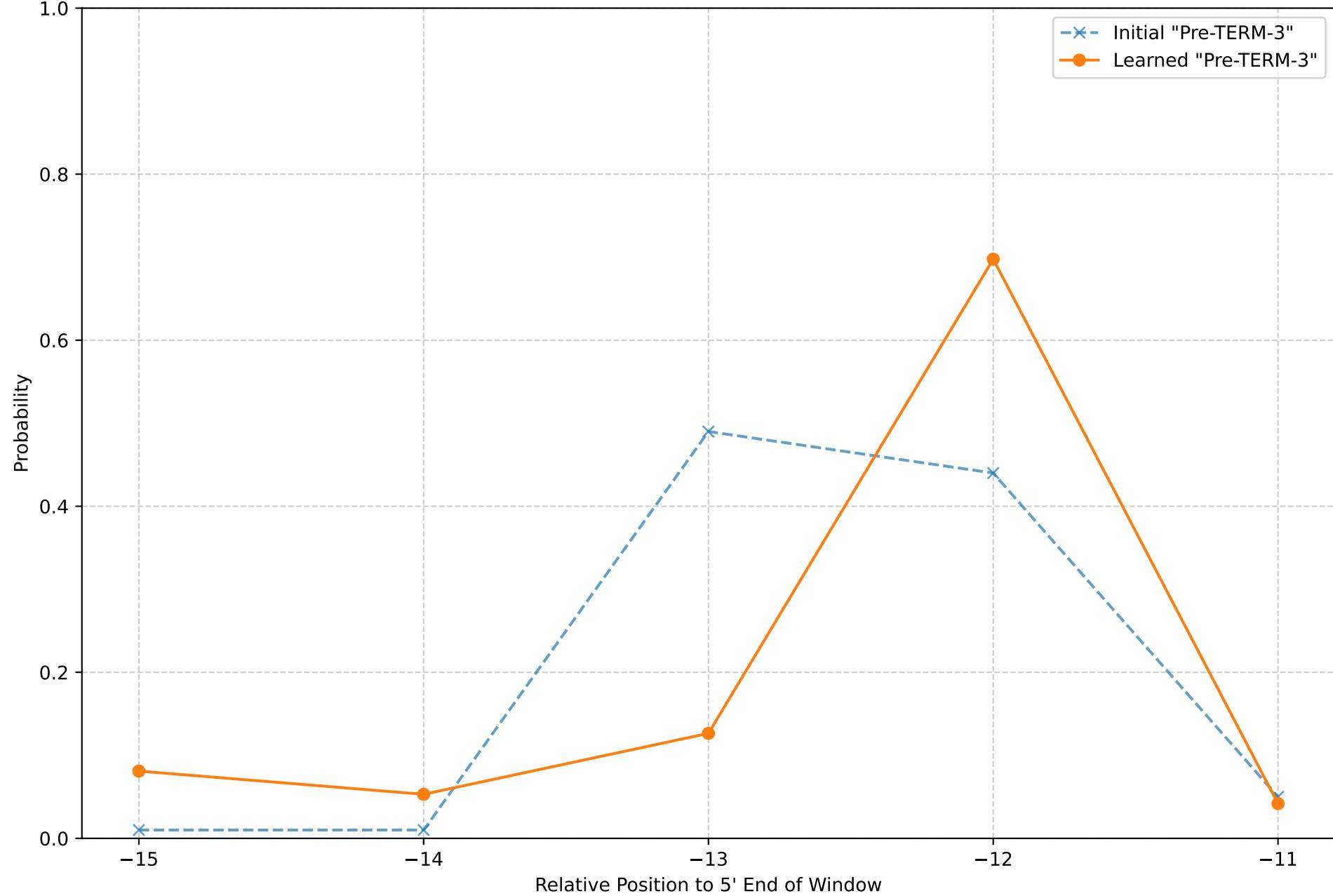
Emission Probabilities: State "Pre-TERM-1"



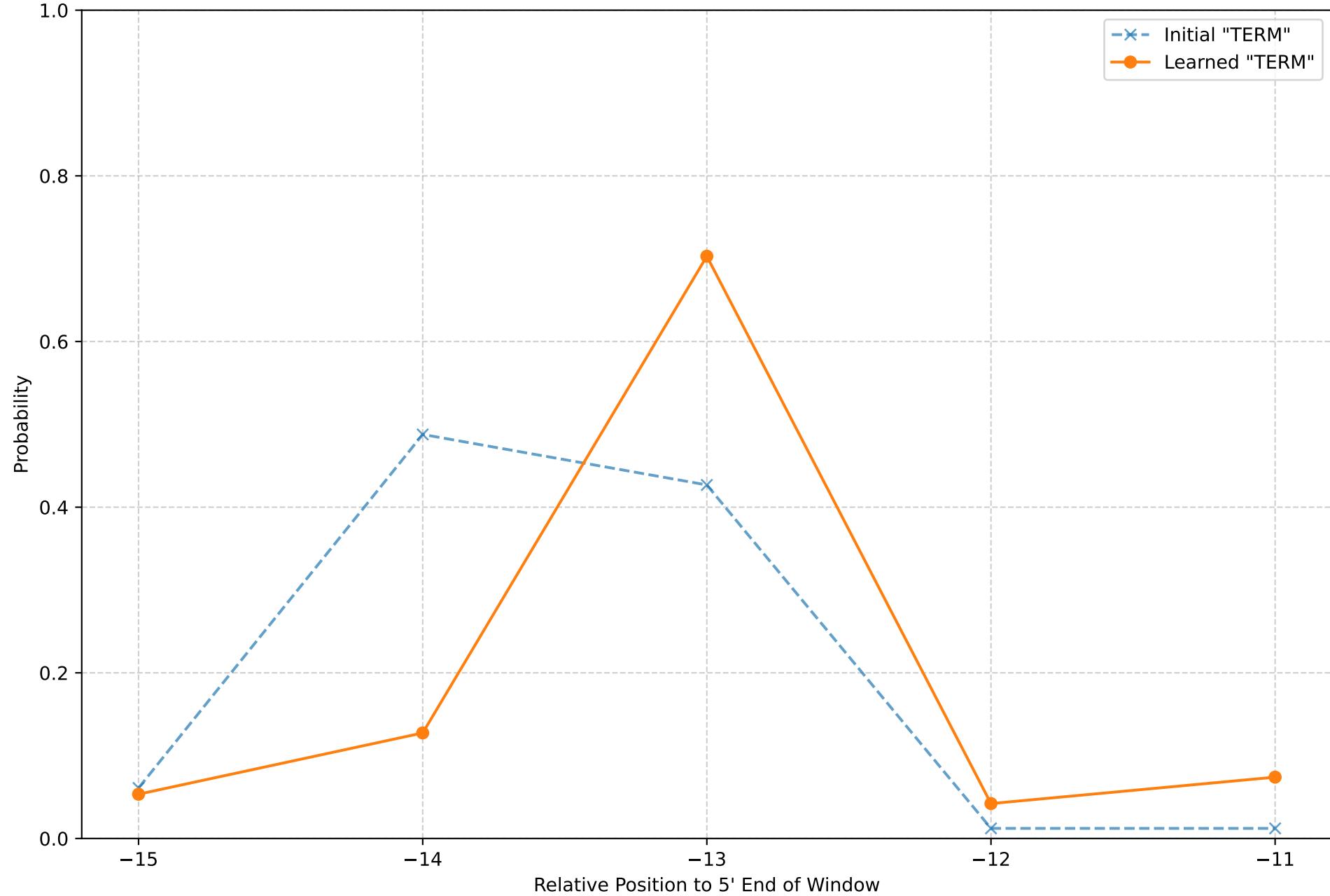
Emission Probabilities: State "Pre-TERM-2"



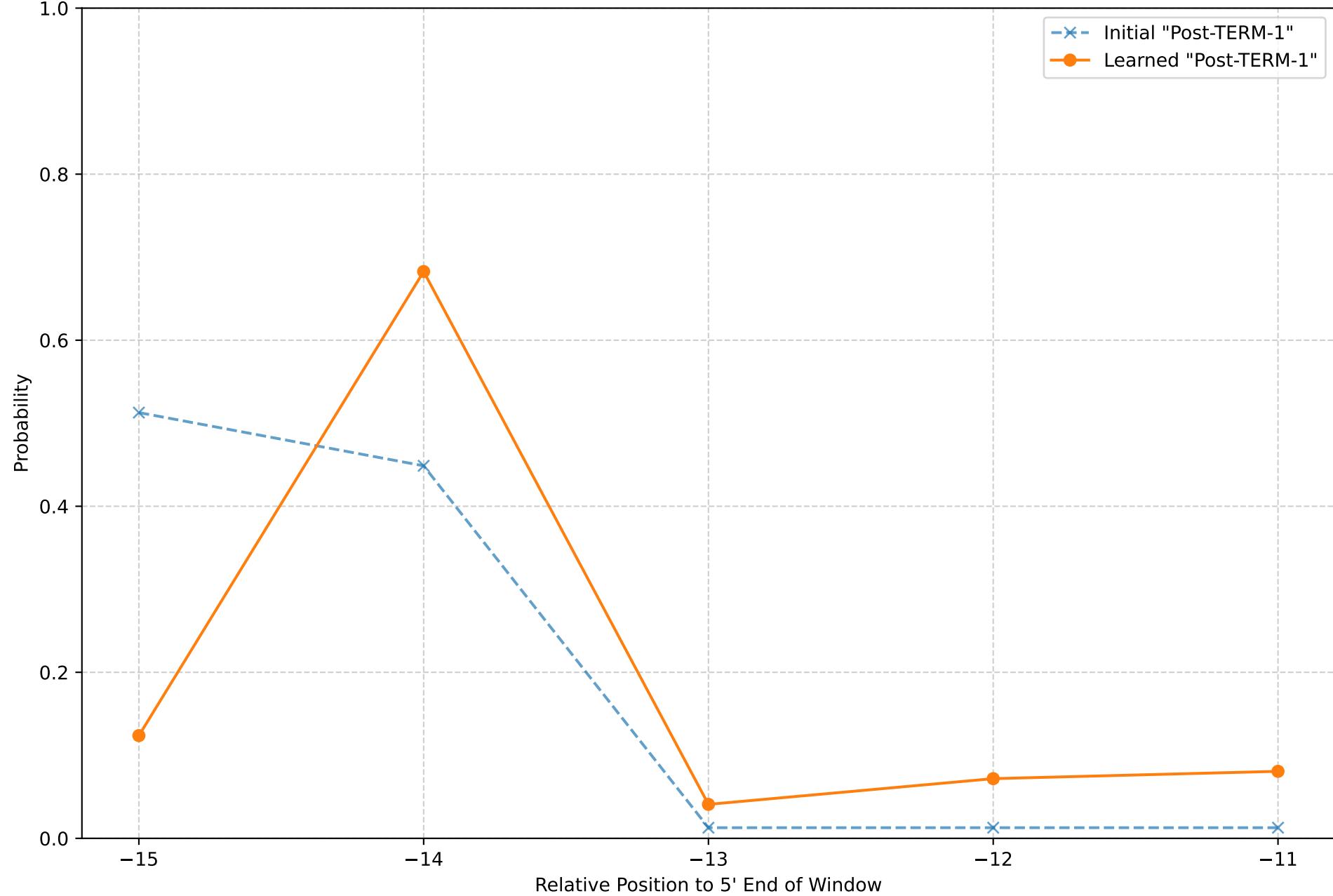
Emission Probabilities: State "Pre-TERM-3"



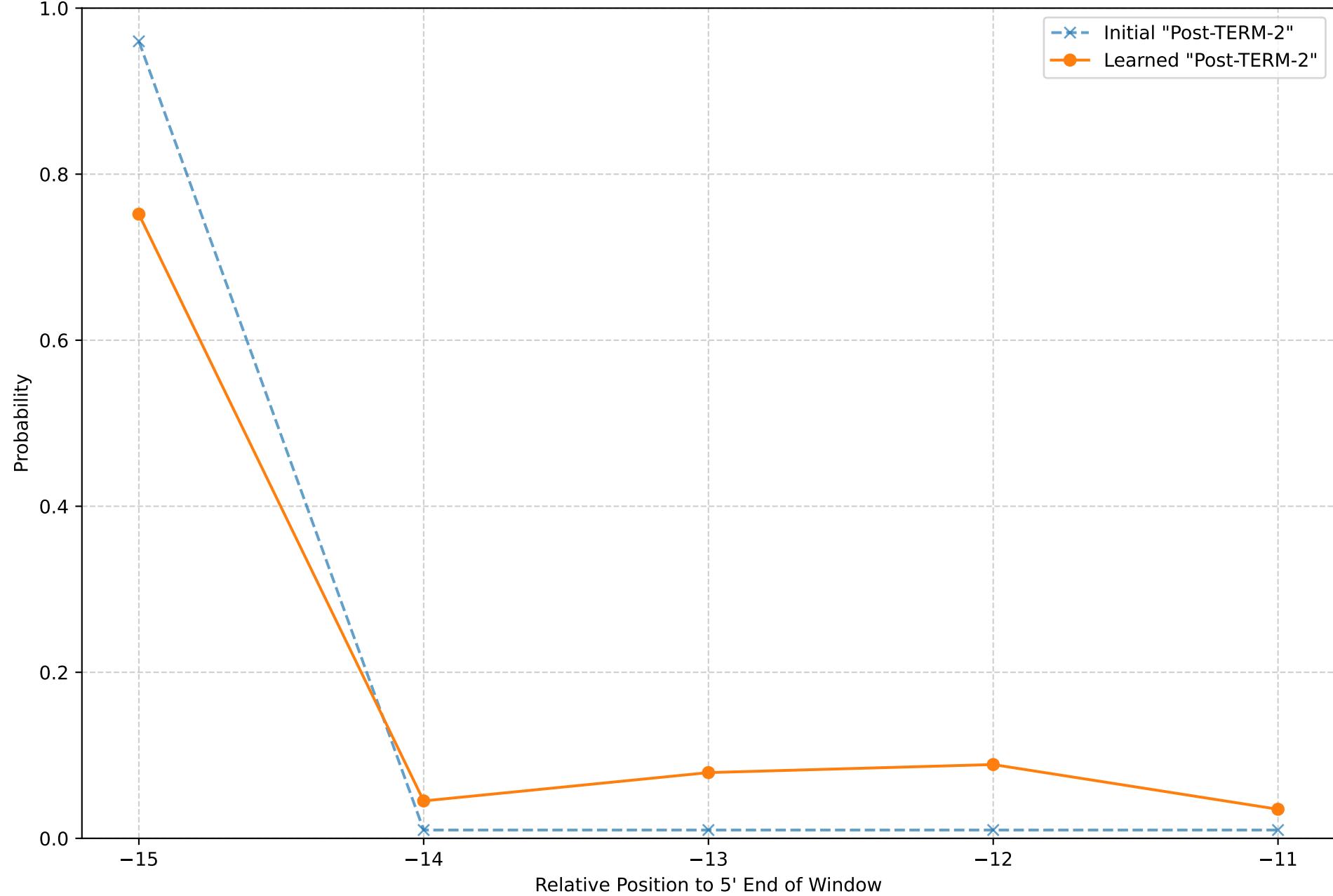
Emission Probabilities: State "TERM"



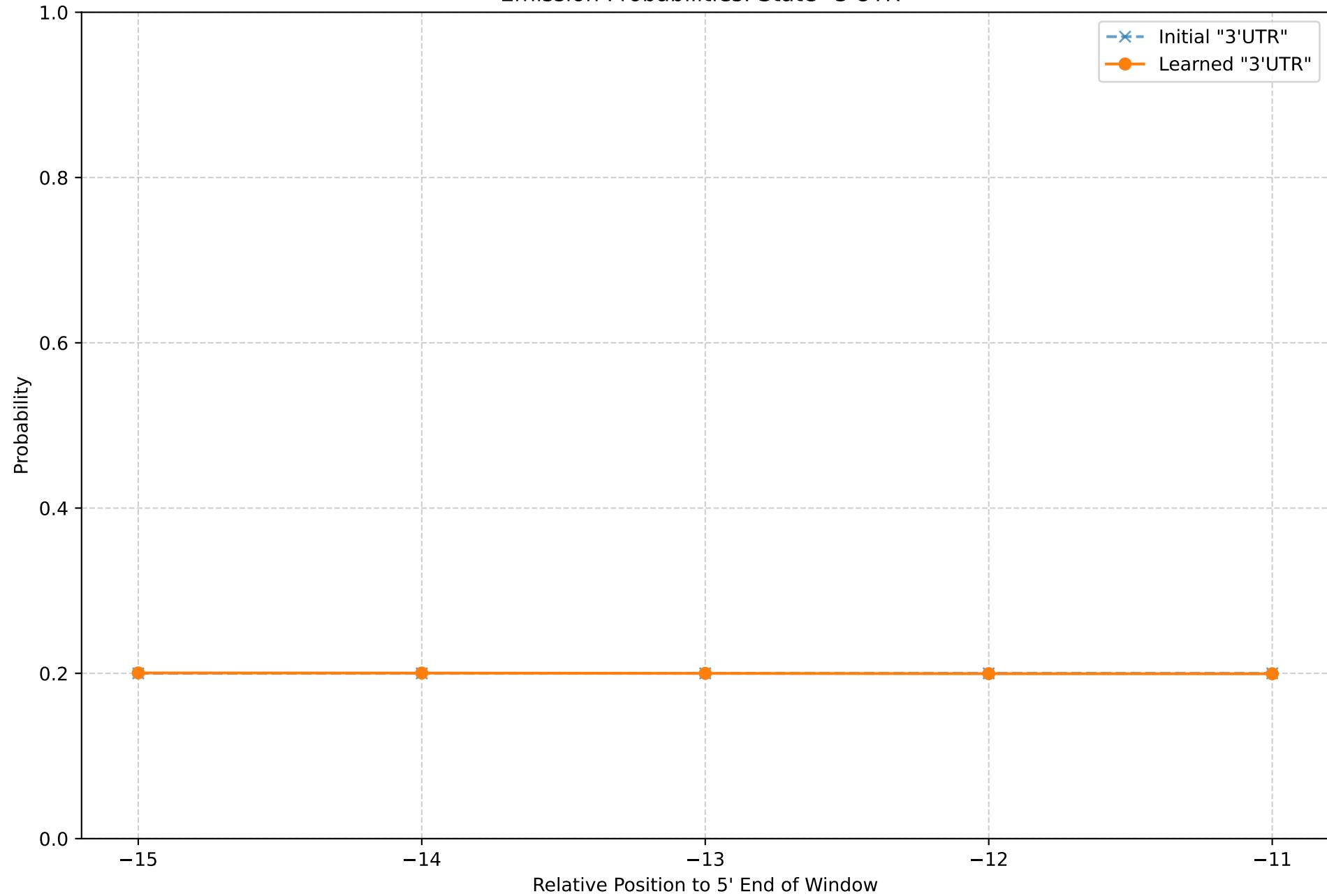
Emission Probabilities: State "Post-TERM-1"



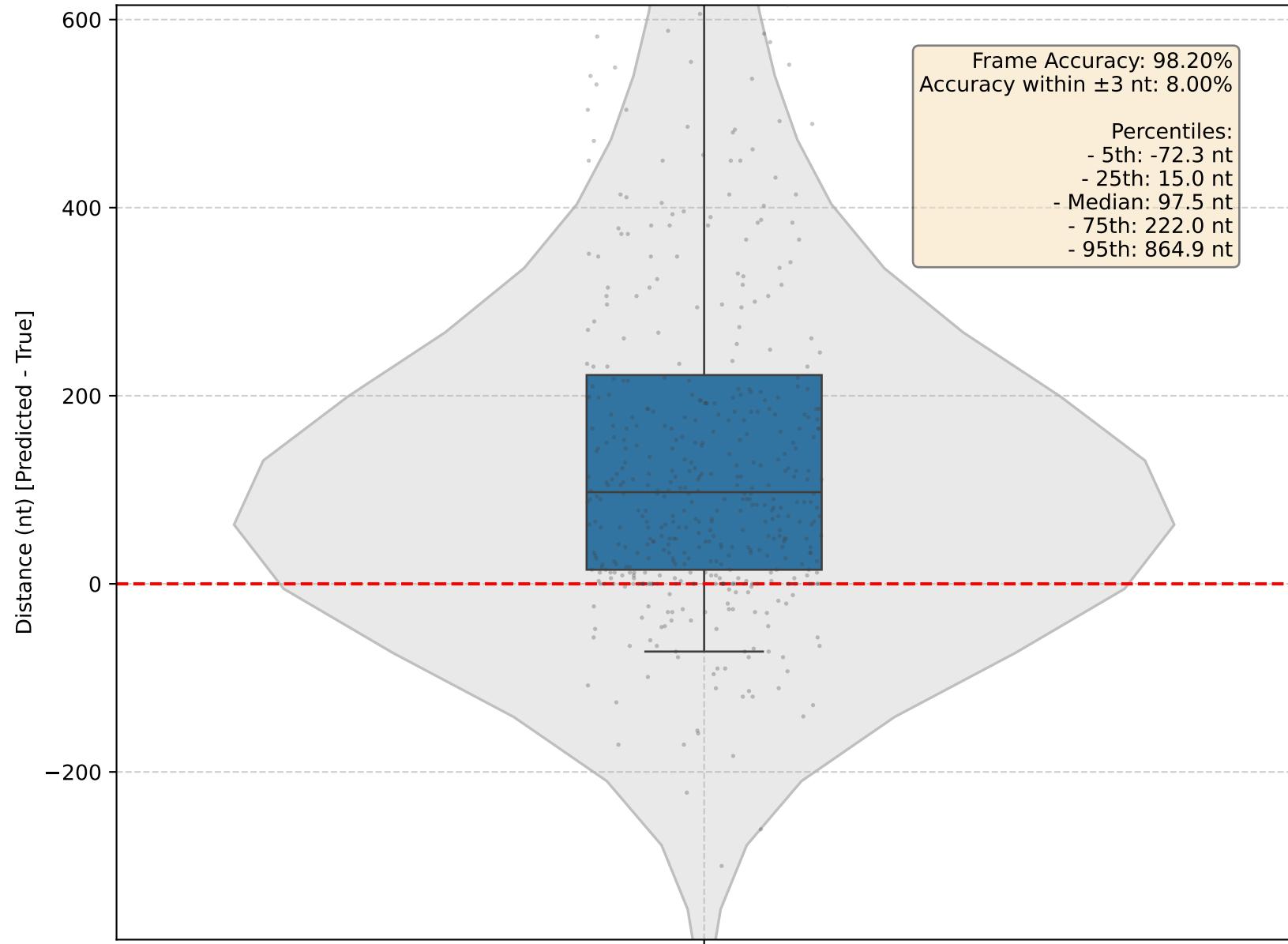
Emission Probabilities: State "Post-TERM-2"



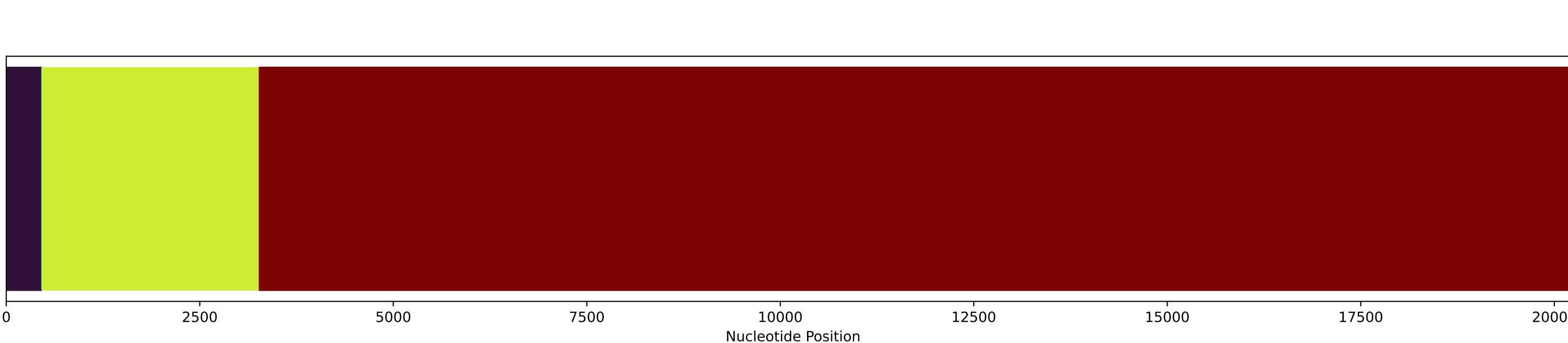
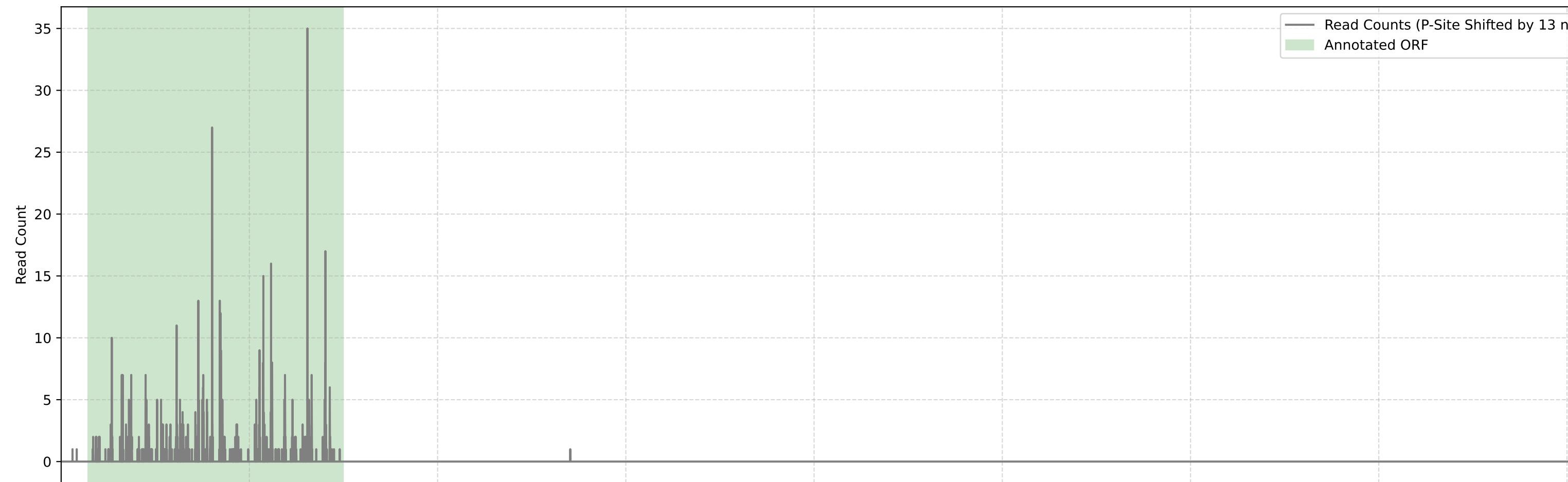
Emission Probabilities: State "3'UTR"



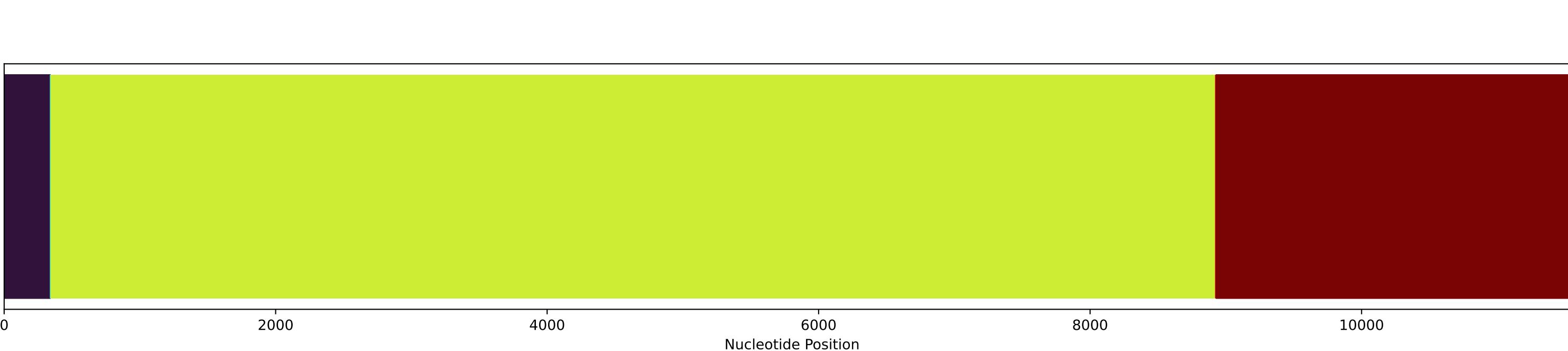
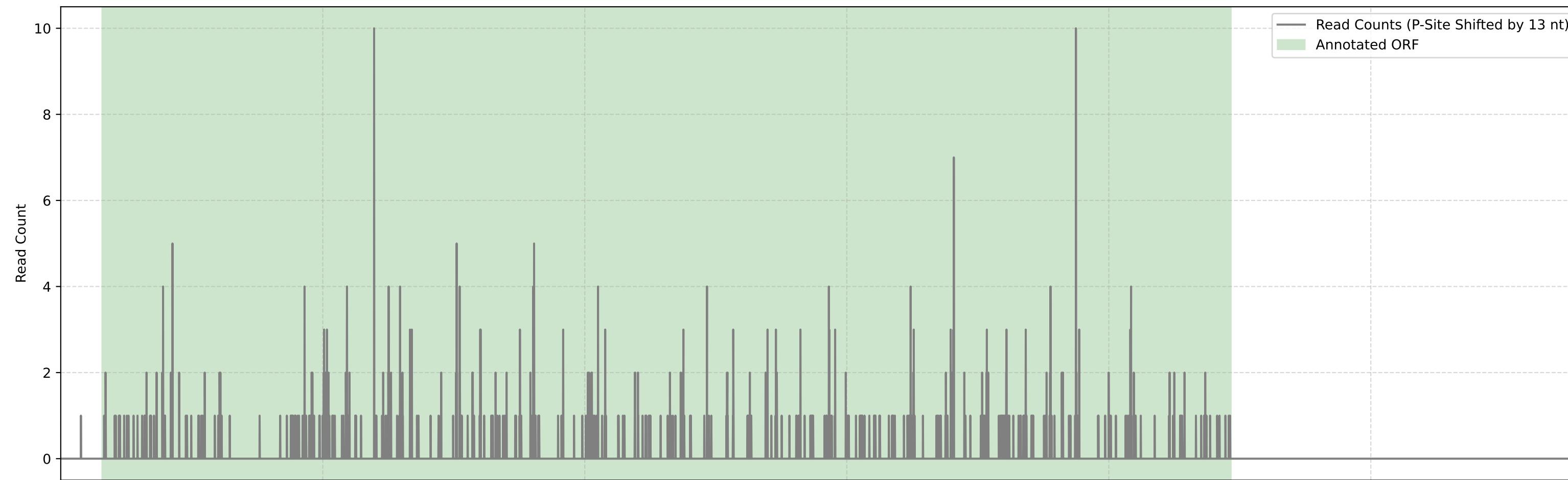
Distance: Predicted INIT State vs. True Start Codon



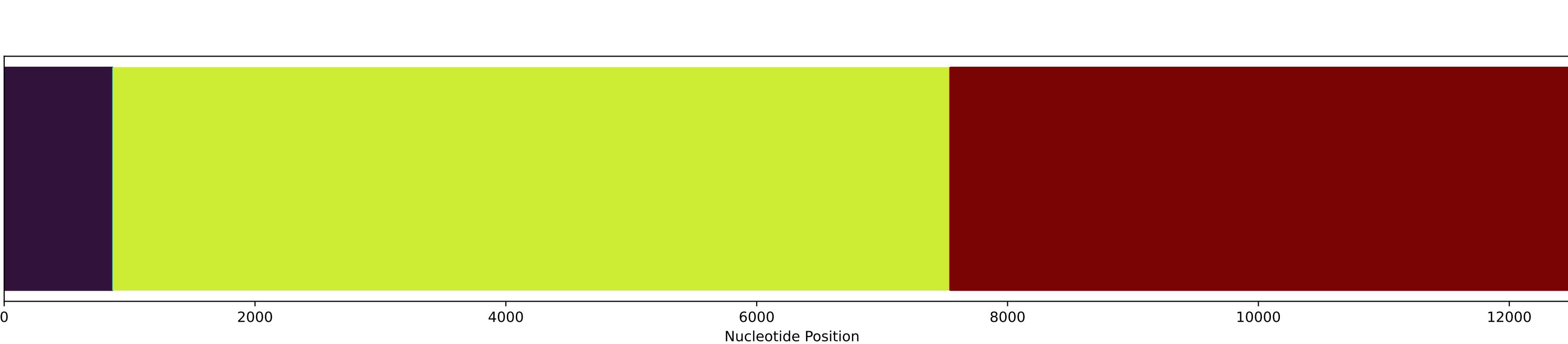
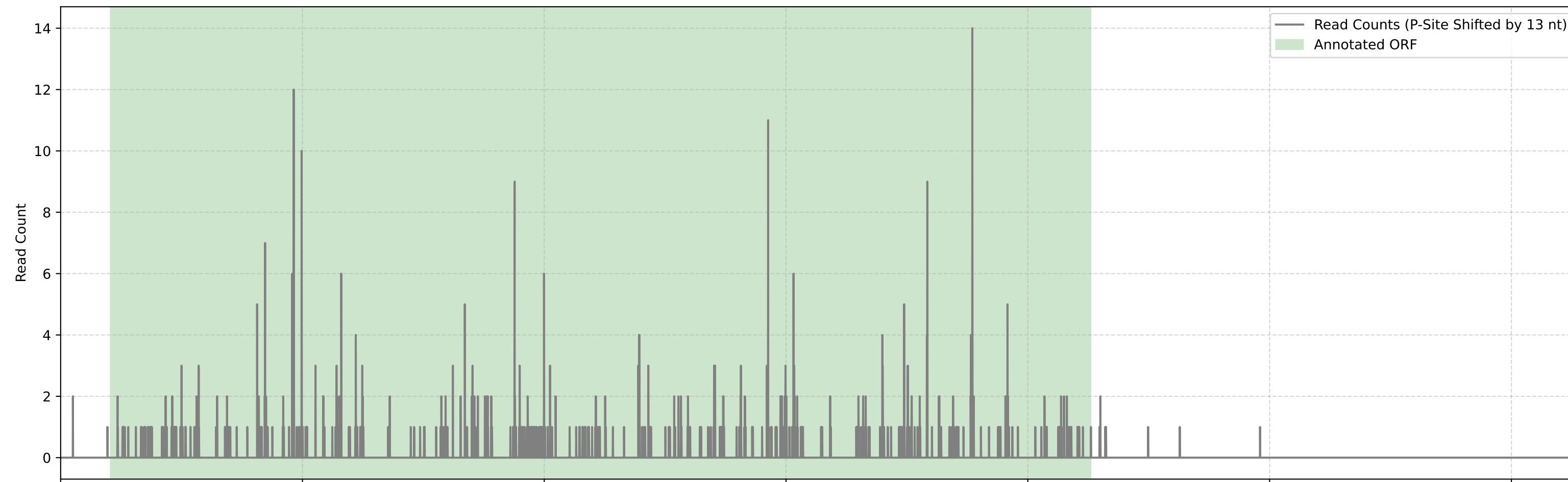
Example: 1th Percentile (by TPM) Transcript (ENST00000361354.9)
Total Reads: 1,057 | TPM: 158.65



Example: 2th Percentile (by TPM) Transcript (ENST00000316623.10)
Total Reads: 740 | TPM: 194.52

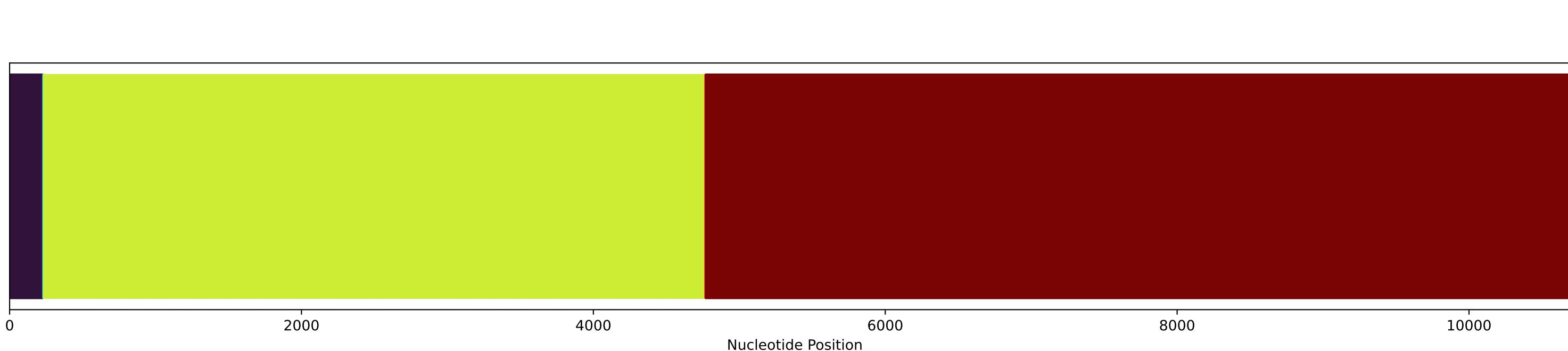
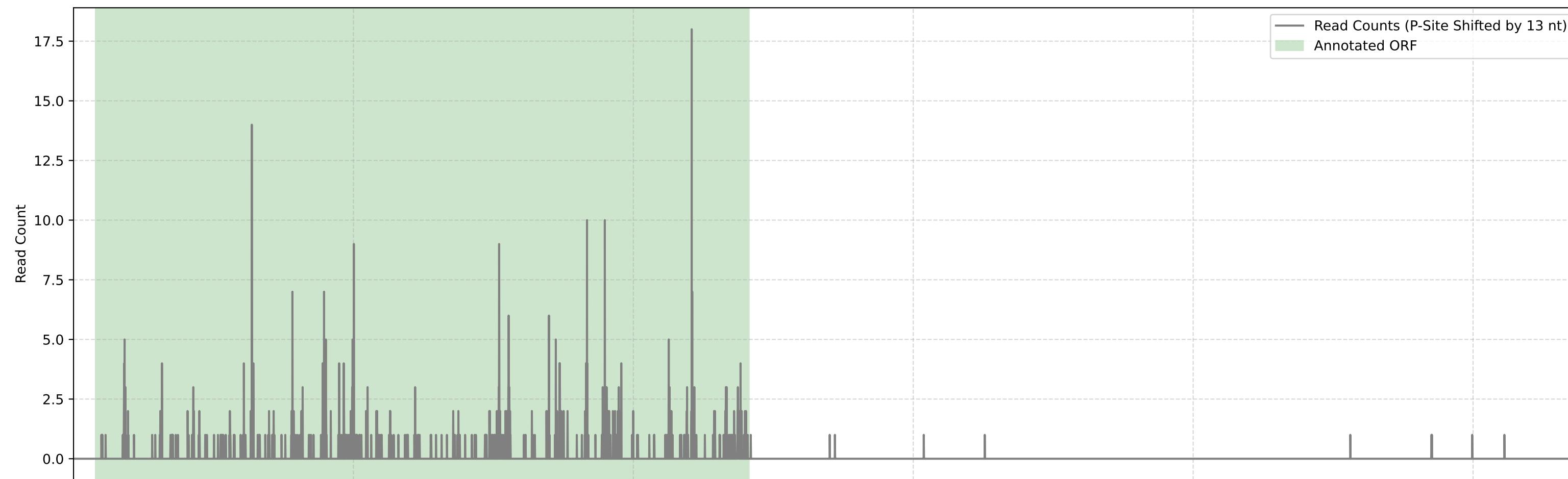


Example: 3th Percentile (by TPM) Transcript (ENST00000381340.8)
Total Reads: 837 | TPM: 203.30



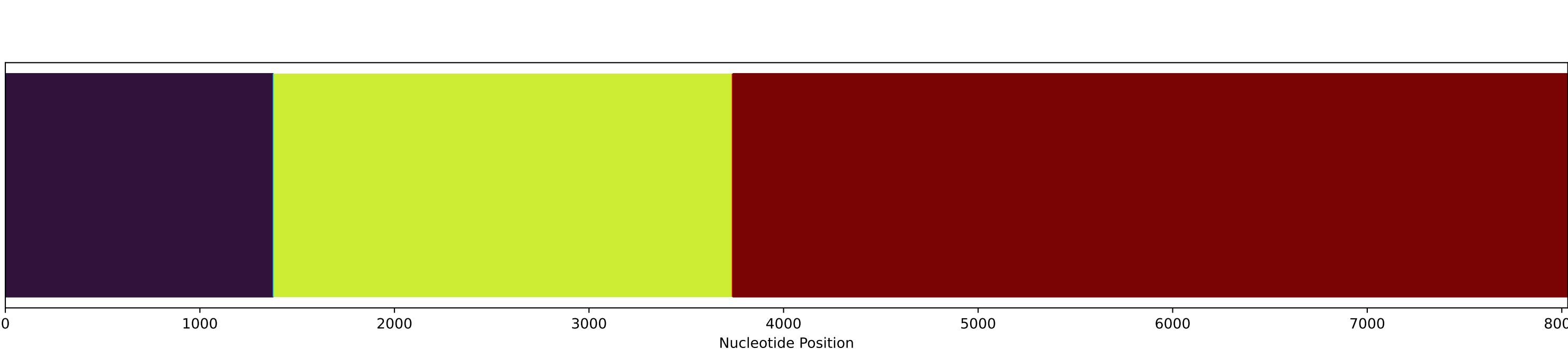
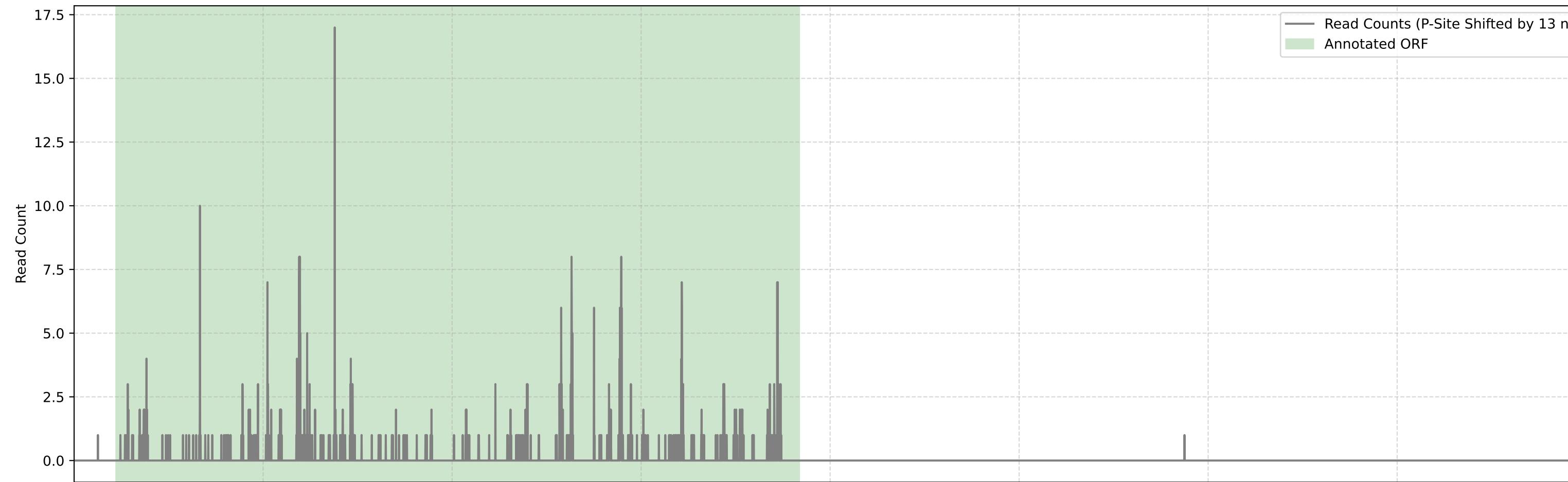
- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

Example: 4th Percentile (by TPM) Transcript (ENST00000259253.11)
Total Reads: 791 | TPM: 224.32

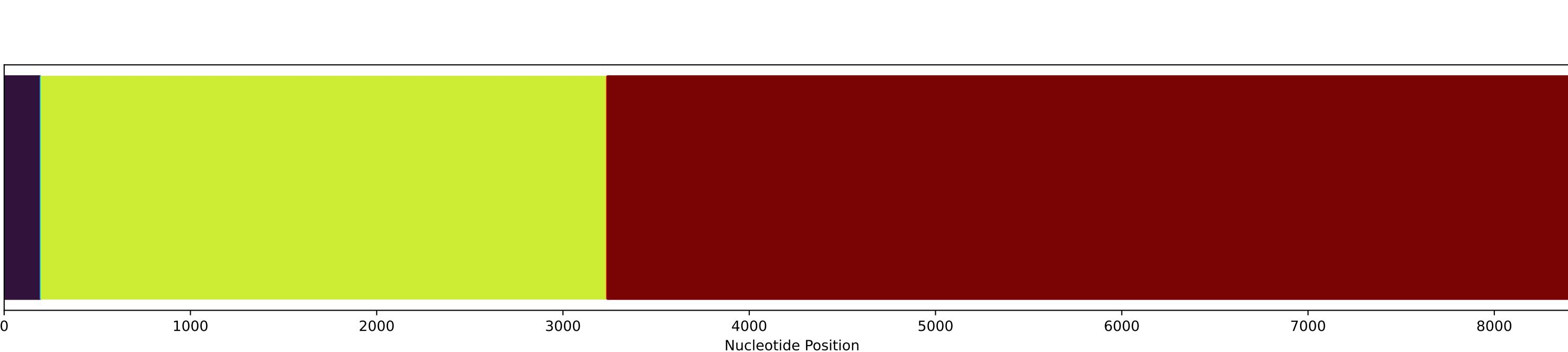
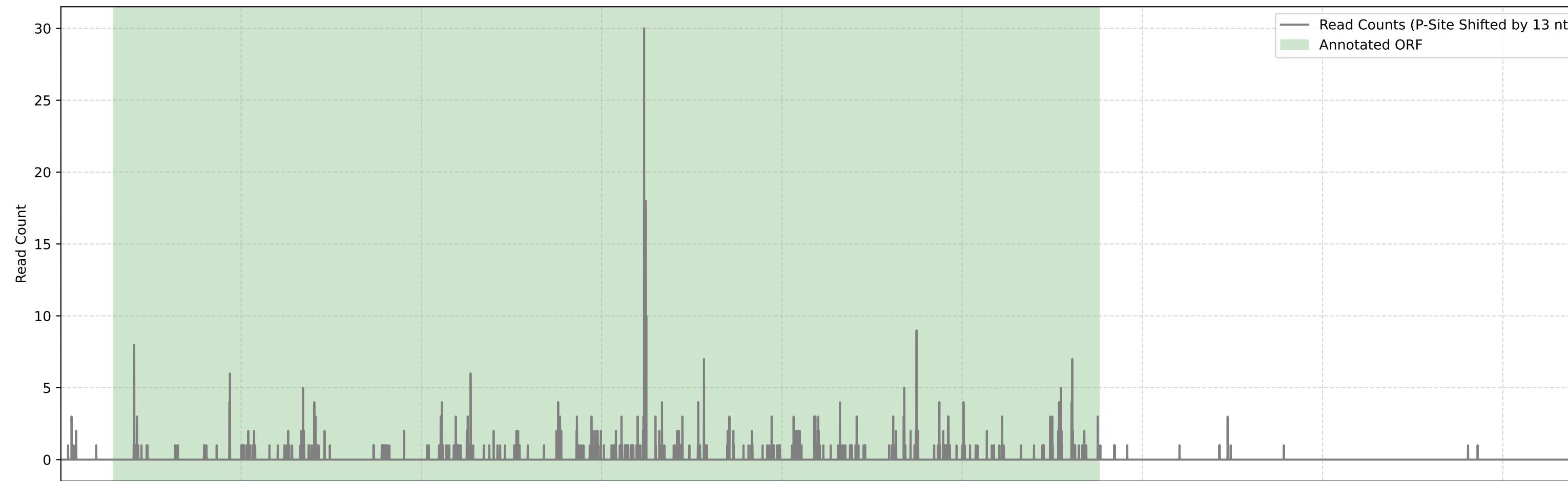


5'UTR
Pre-INIT-1
Pre-INIT-2
Pre-INIT-3
INIT
Post-INIT-1
Post-INIT-2
T1
T2
T3
Pre-TERM-1
Pre-TERM-2
Pre-TERM-3
TERM
Post-TERM-1
Post-TERM-2
3'UTR

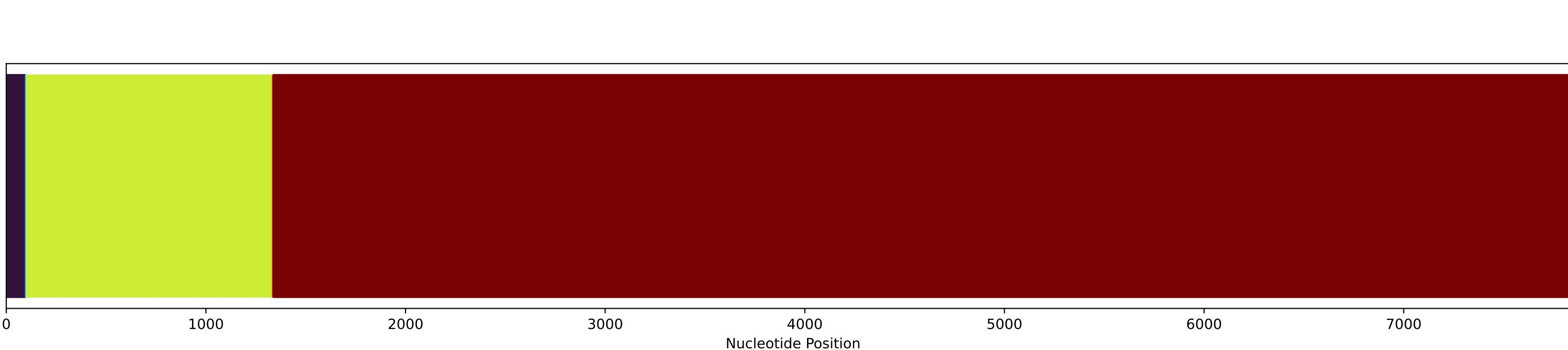
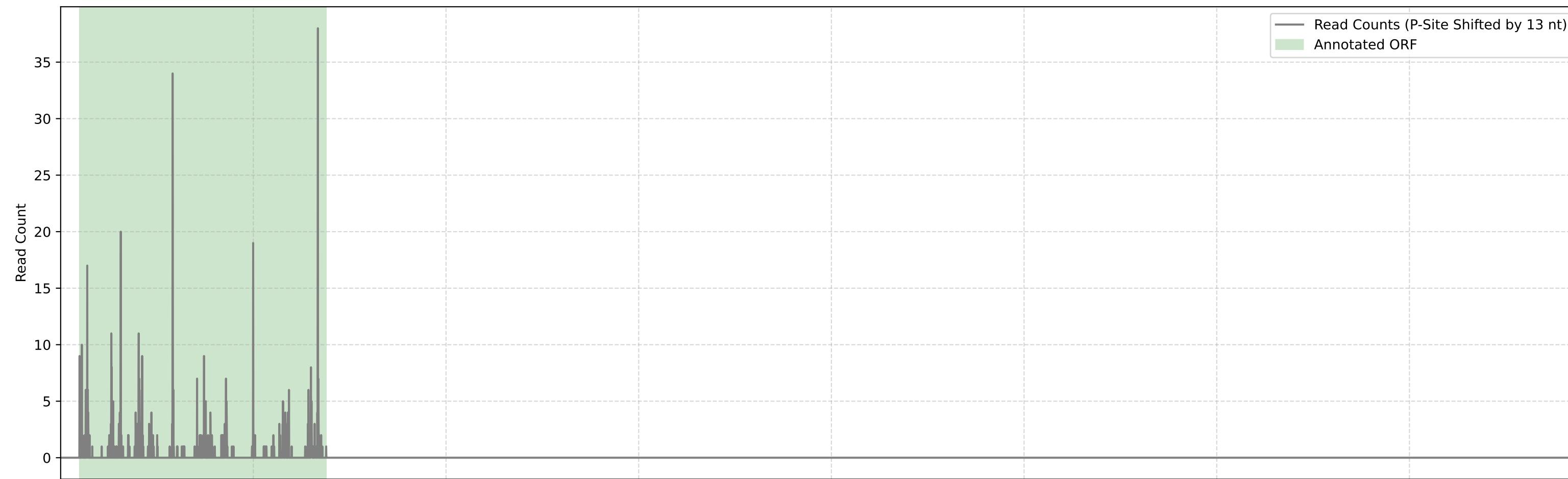
Example: 5th Percentile (by TPM) Transcript (ENST00000415807.7)
Total Reads: 648 | TPM: 246.23



Example: 6th Percentile (by TPM) Transcript (ENST00000261978.9)
Total Reads: 732 | TPM: 264.04

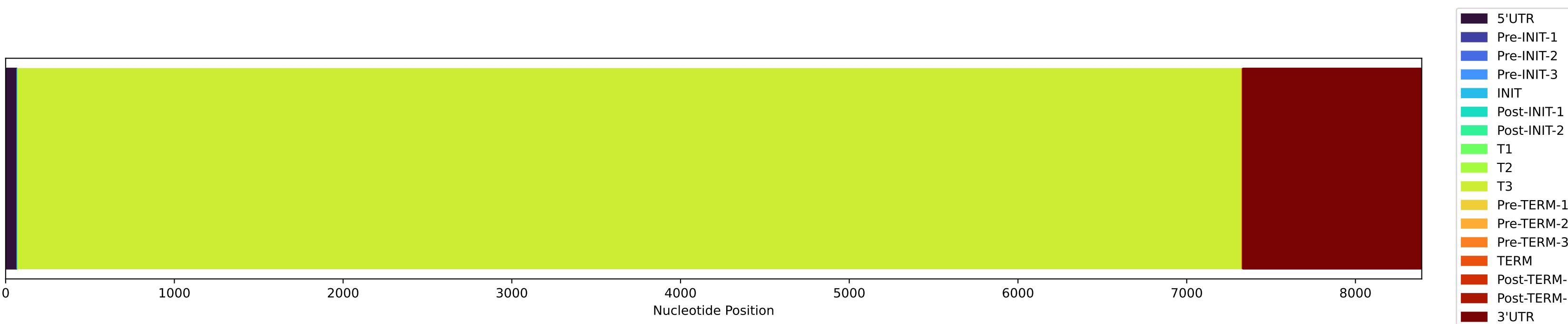
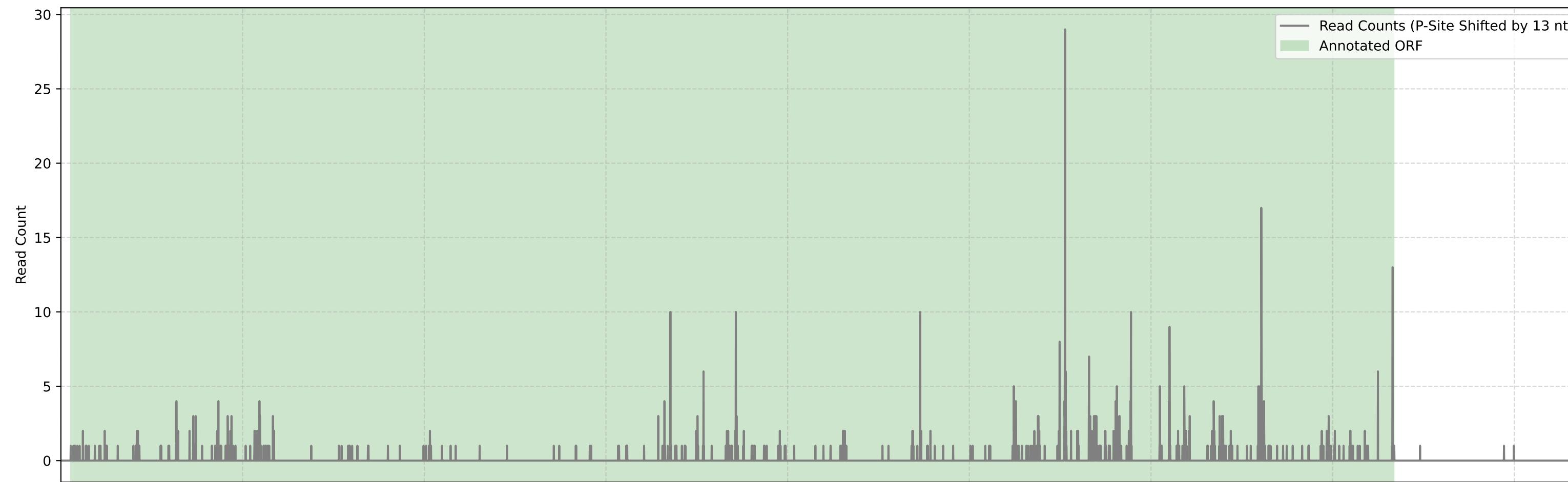


Example: 7th Percentile (by TPM) Transcript (ENST00000373493.10)
Total Reads: 703 | TPM: 272.15

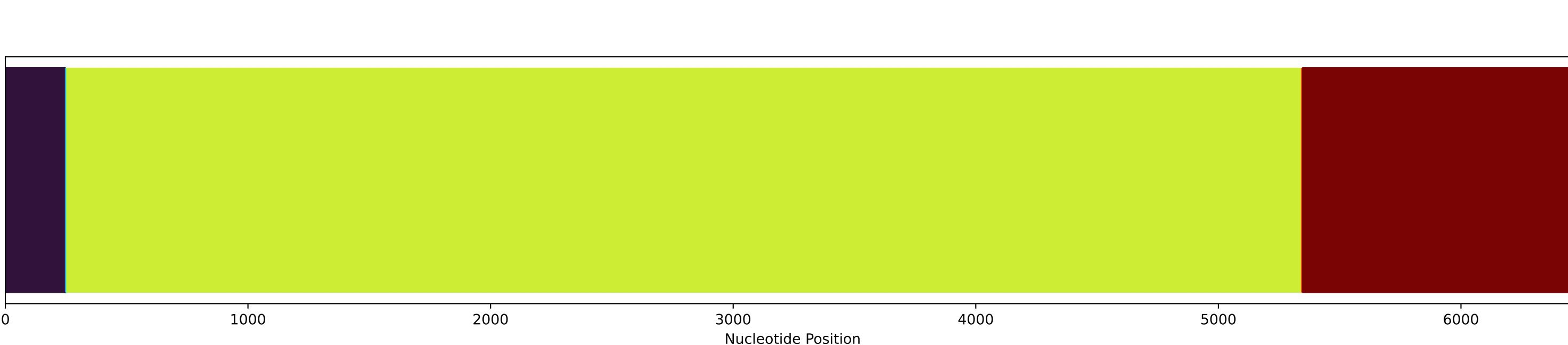
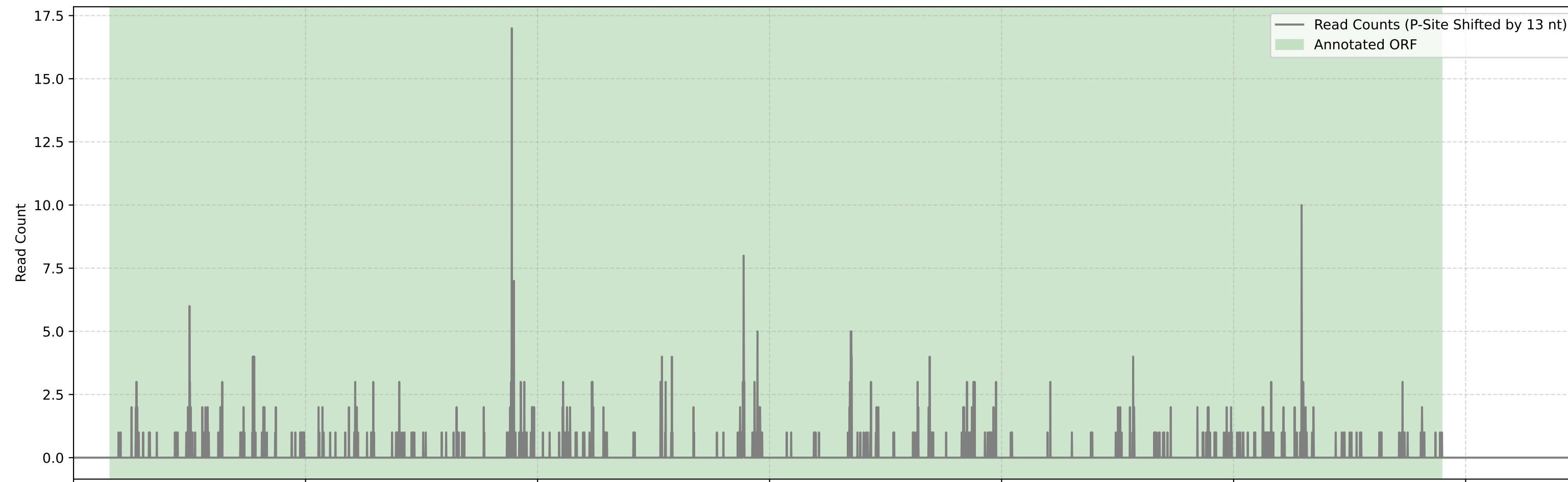


- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

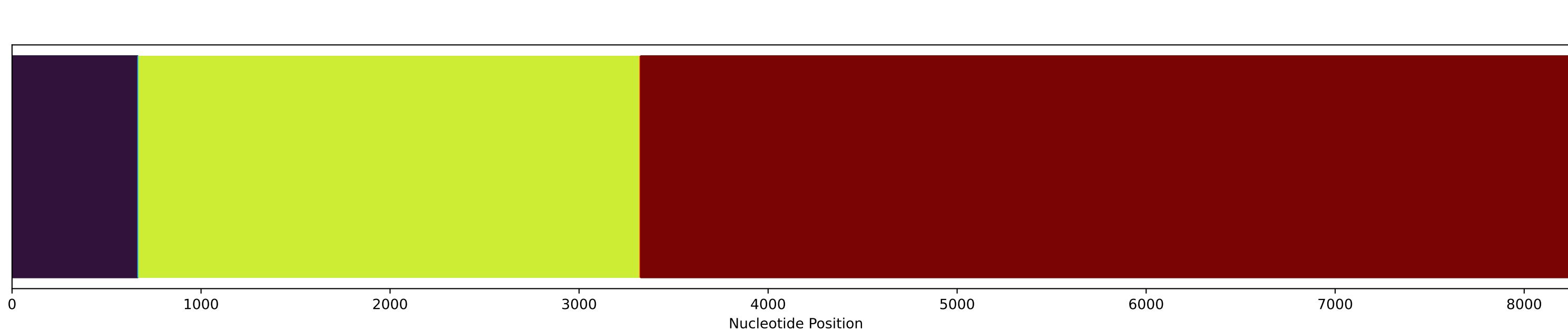
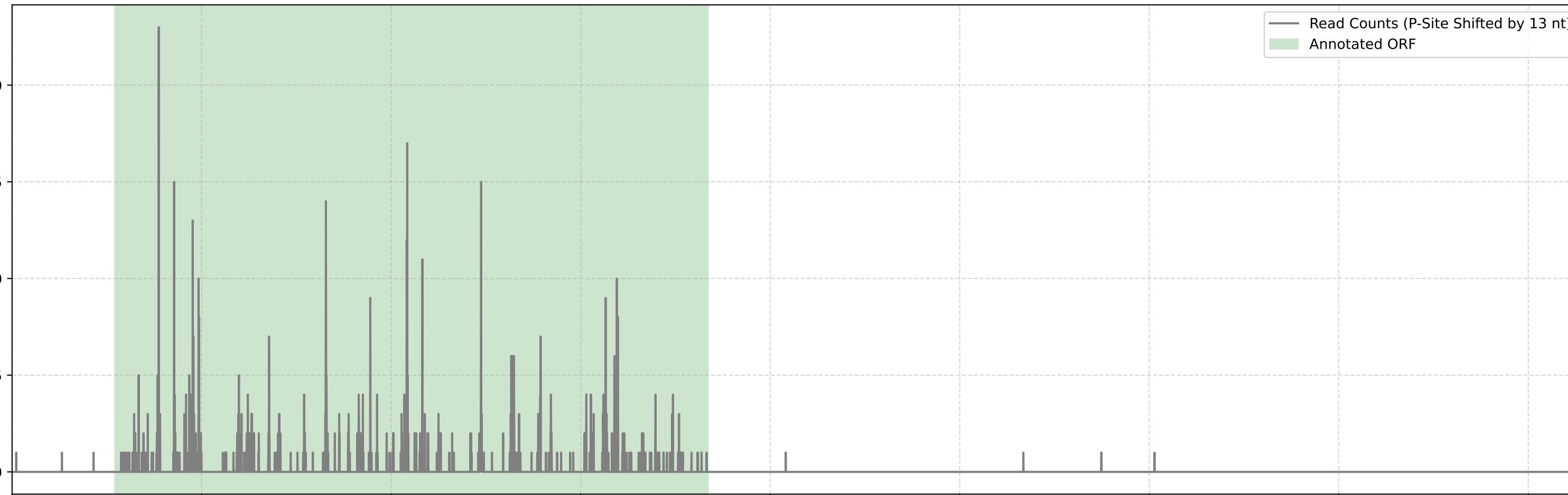
Example: 8th Percentile (by TPM) Transcript (ENST00000356577.10)
Total Reads: 822 | TPM: 298.88



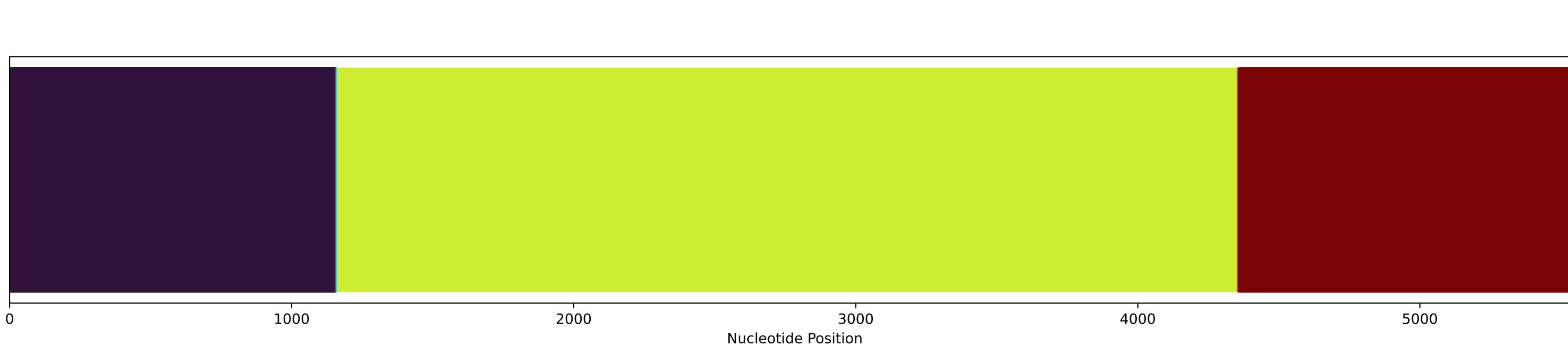
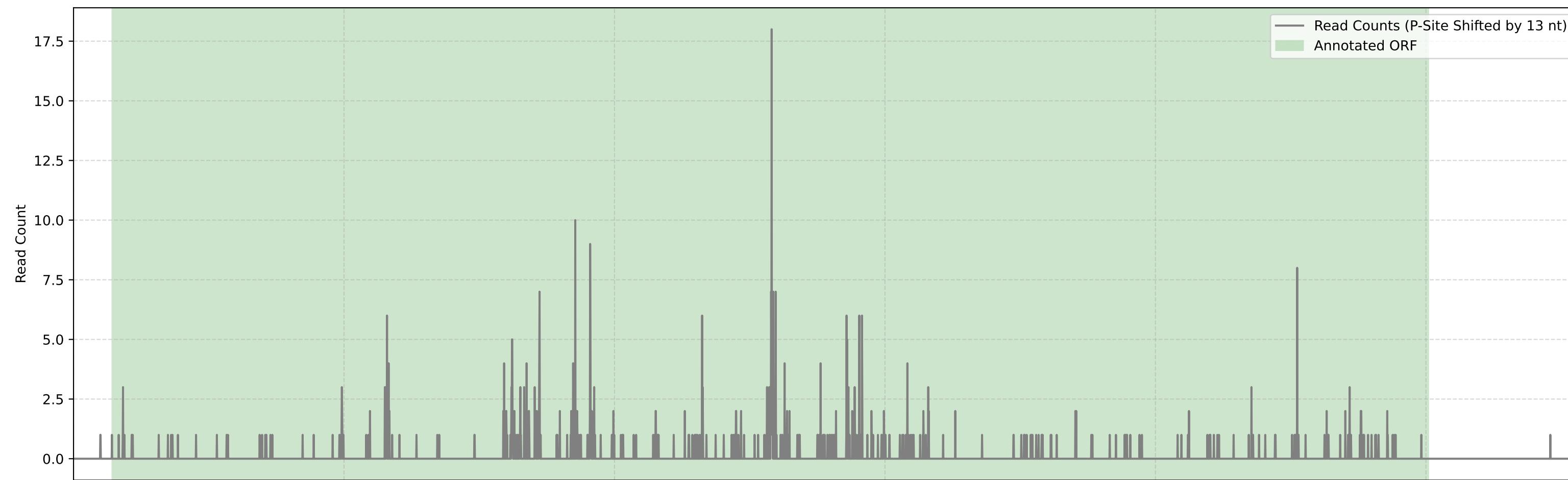
Example: 9th Percentile (by TPM) Transcript (ENST00000544040.7)
Total Reads: 678 | TPM: 318.75



Example: 10th Percentile (by TPM) Transcript (ENST00000539276.7)
Total Reads: 909 | TPM: 334.41

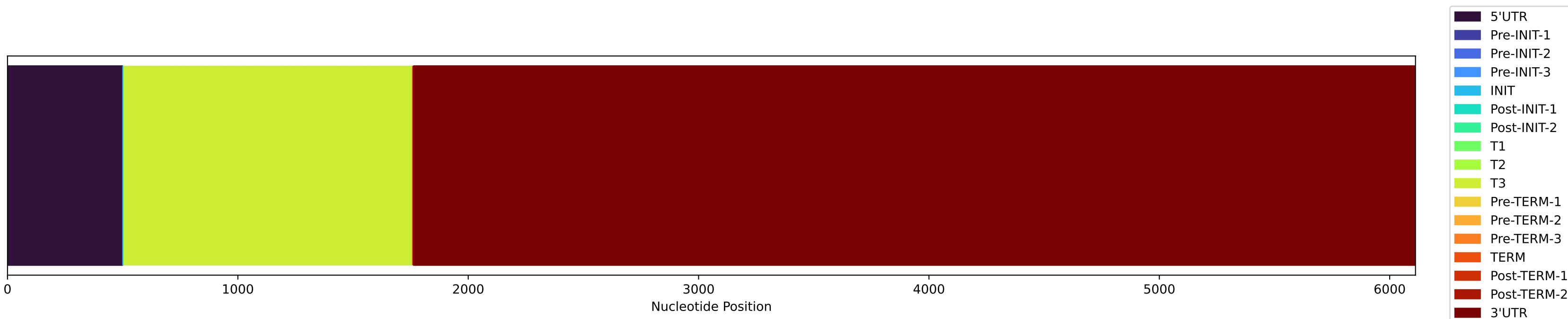
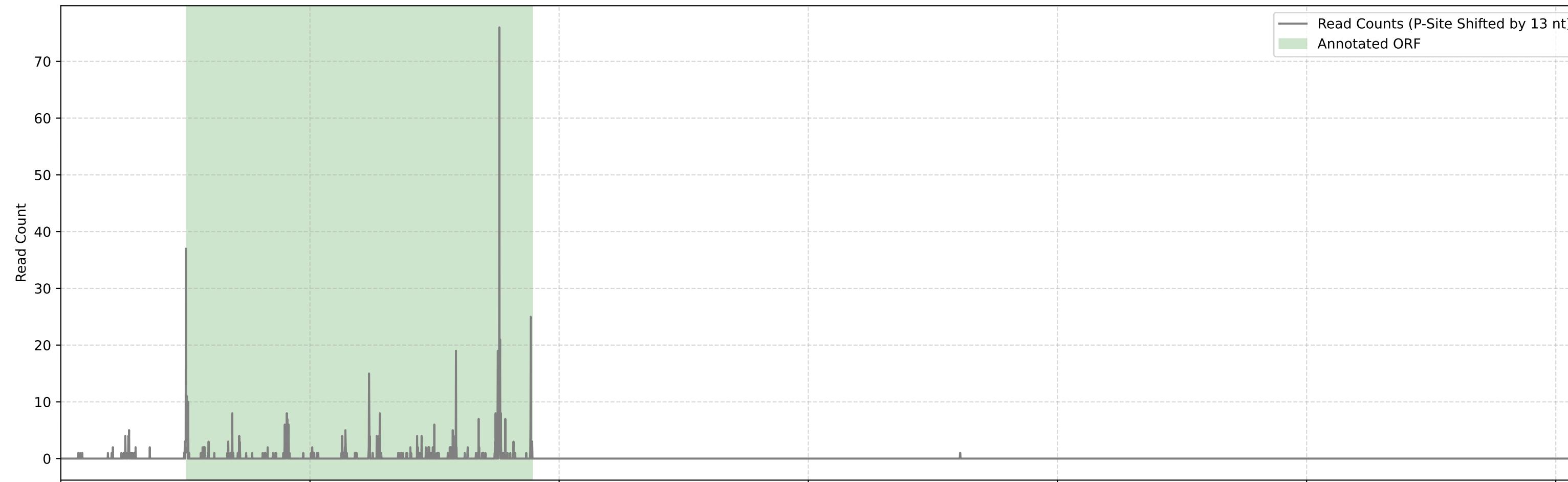


Example: 11th Percentile (by TPM) Transcript (ENST00000368223.4)
Total Reads: 630 | TPM: 345.29

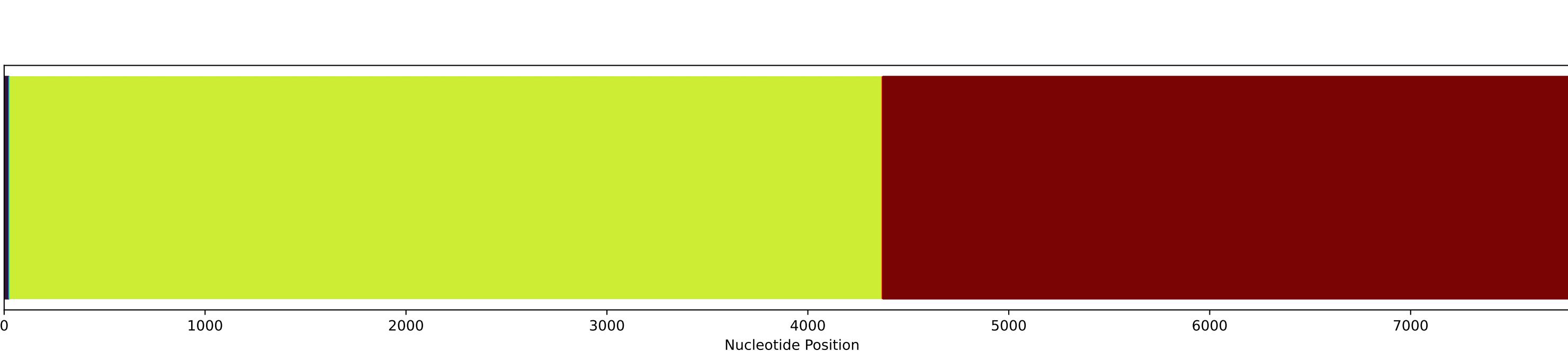
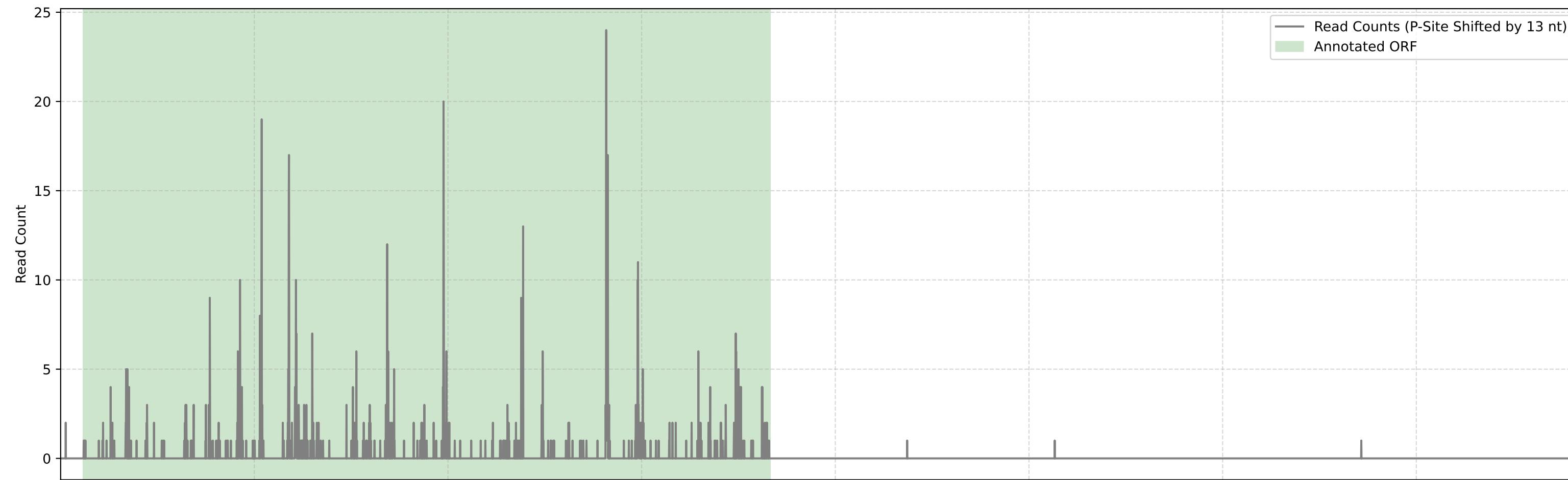


- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

Example: 12th Percentile (by TPM) Transcript (ENST00000392370.8)
Total Reads: 723 | TPM: 360.99

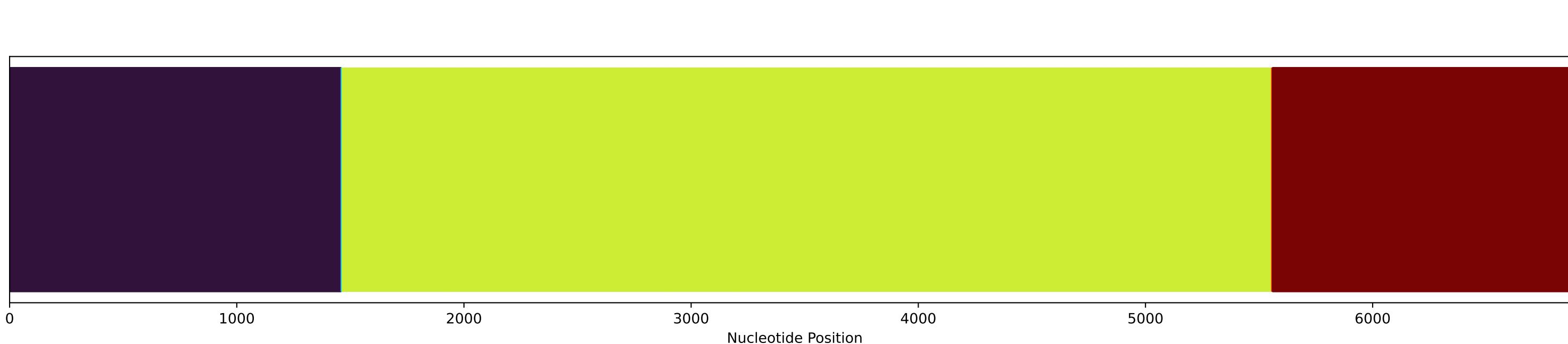
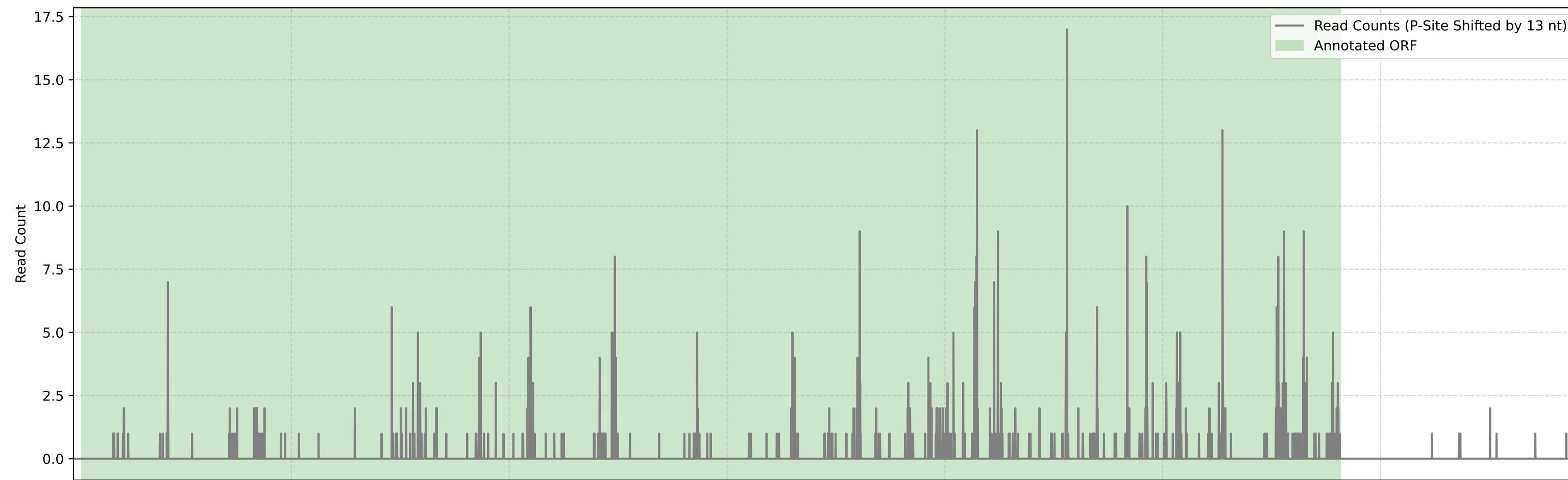


Example: 13th Percentile (by TPM) Transcript (ENST00000296585.10)
Total Reads: 984 | TPM: 382.87

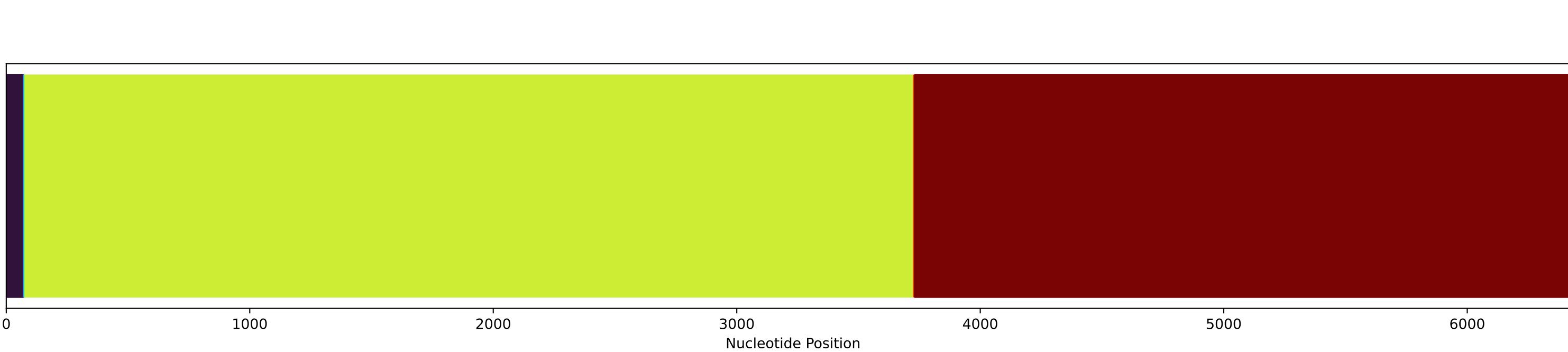
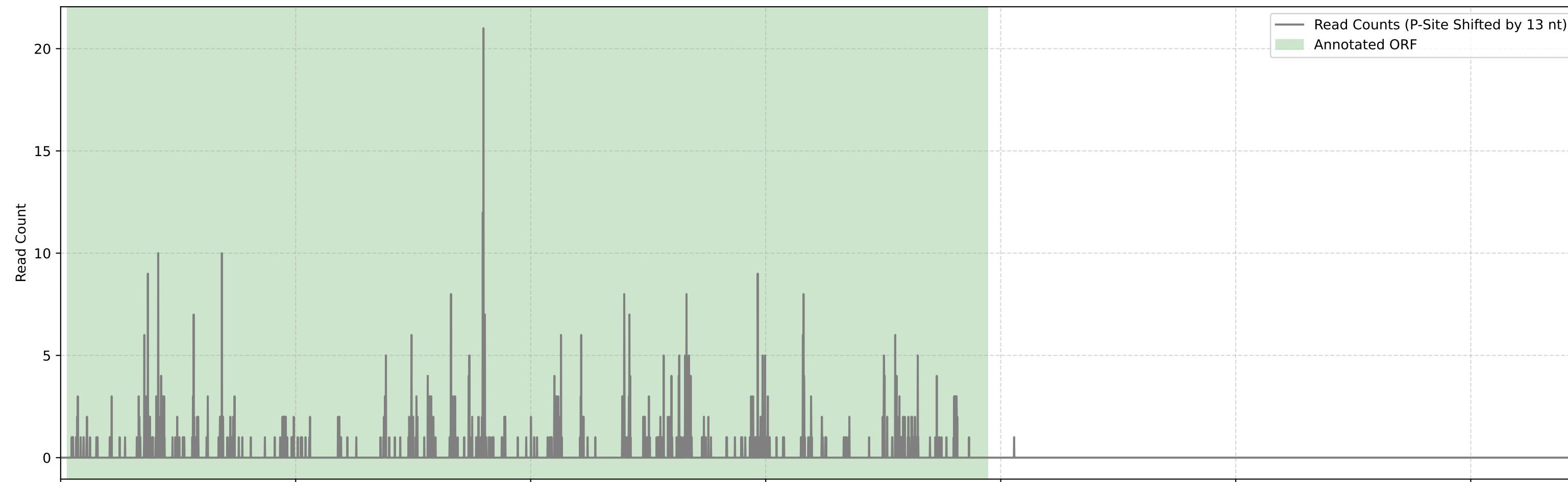


5'UTR
Pre-INIT-1
Pre-INIT-2
Pre-INIT-3
INIT
Post-INIT-1
Post-INIT-2
T1
T2
T3
Pre-TERM-1
Pre-TERM-2
Pre-TERM-3
TERM
Post-TERM-1
Post-TERM-2
3'UTR

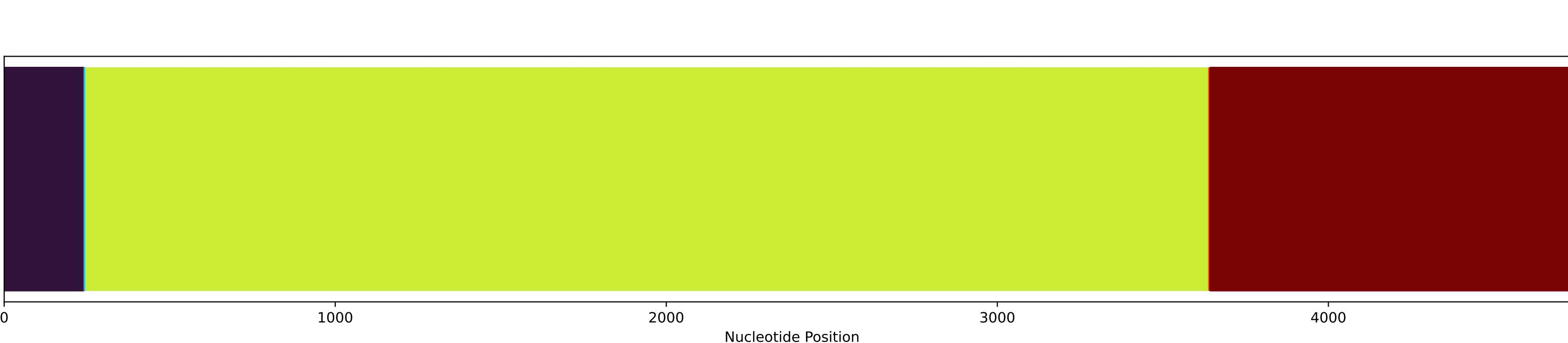
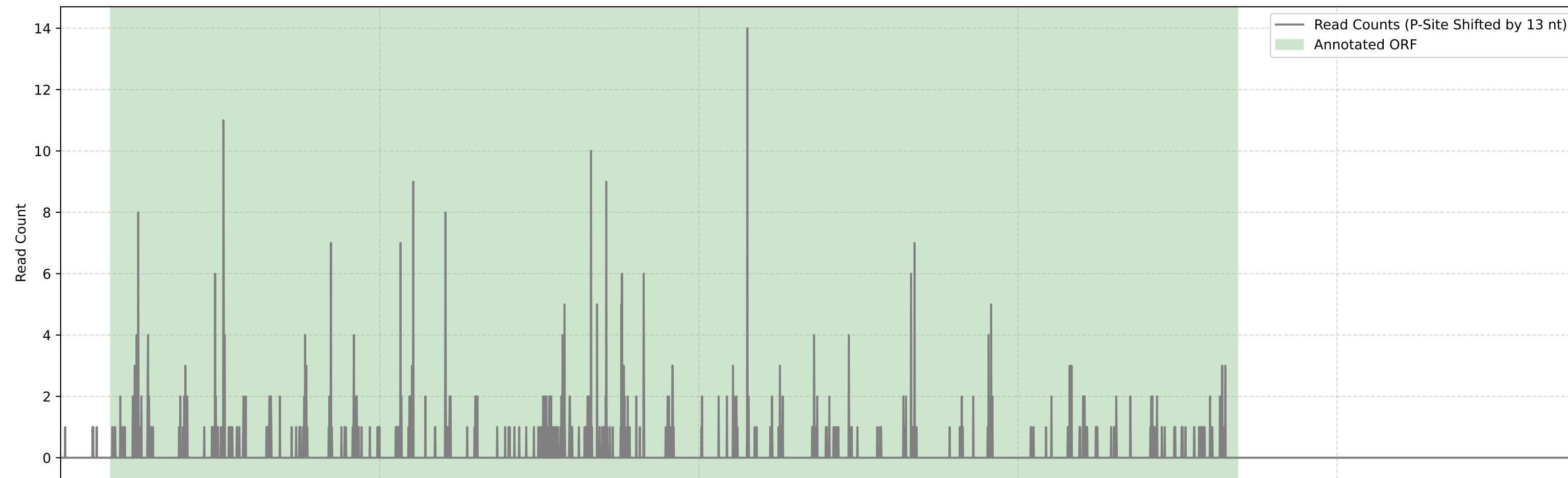
Example: 14th Percentile (by TPM) Transcript (ENST00000324093.9)
Total Reads: 900 | TPM: 397.29



Example: 15th Percentile (by TPM) Transcript (ENST00000335508.11)
Total Reads: 870 | TPM: 410.79

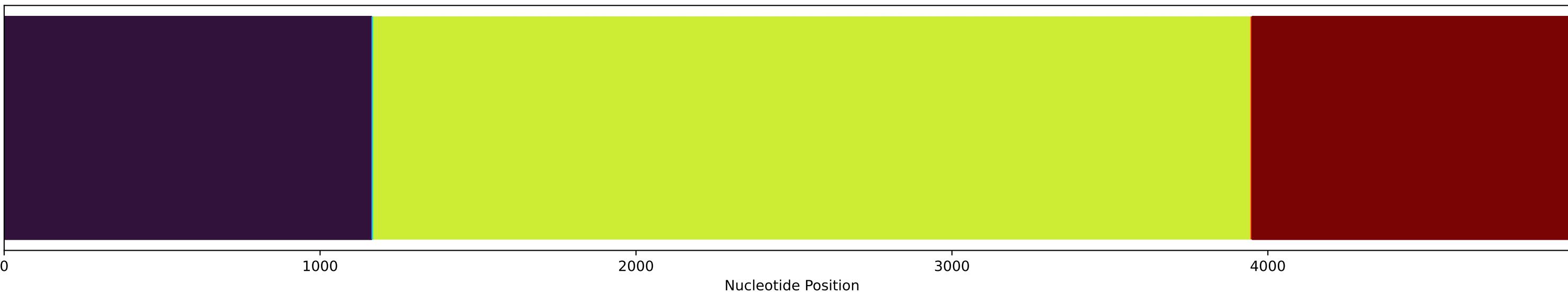
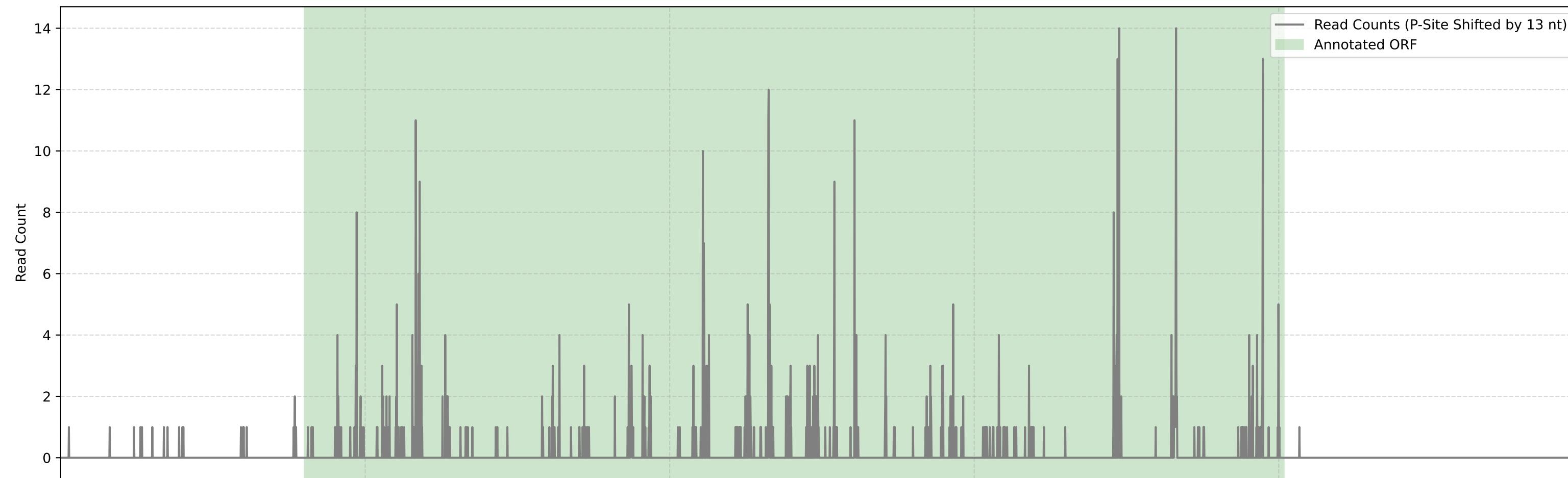


Example: 16th Percentile (by TPM) Transcript (ENST00000394434.7)
Total Reads: 653 | TPM: 418.64



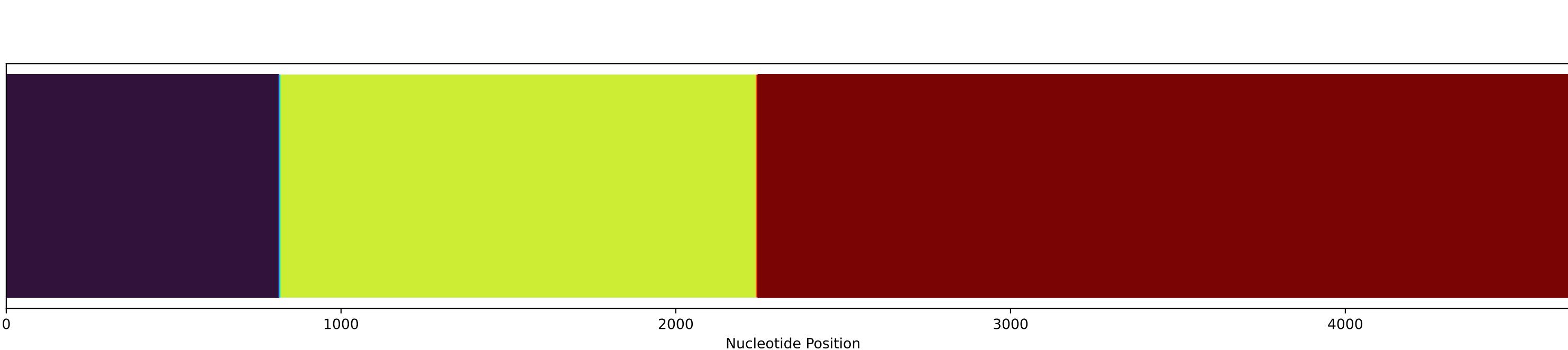
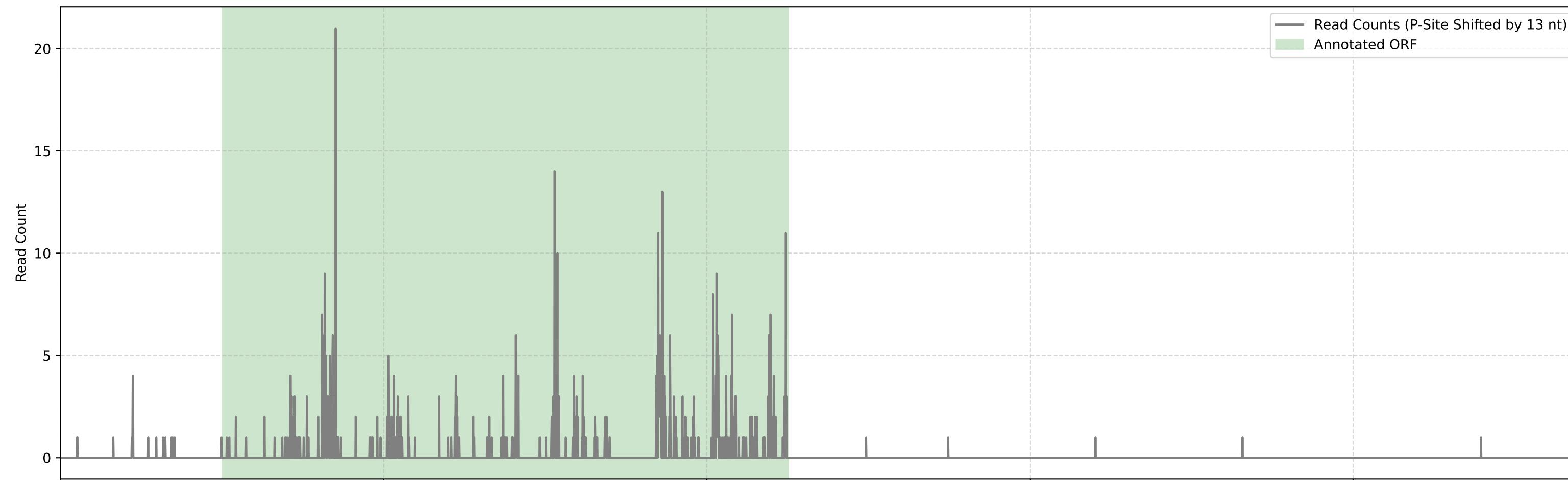
- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

Example: 17th Percentile (by TPM) Transcript (ENST00000401558.7)
Total Reads: 727 | TPM: 444.78



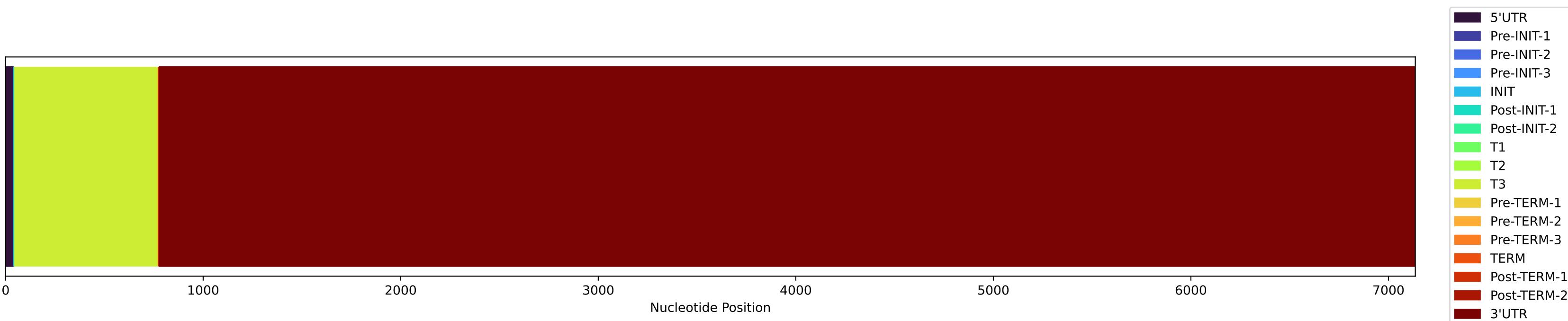
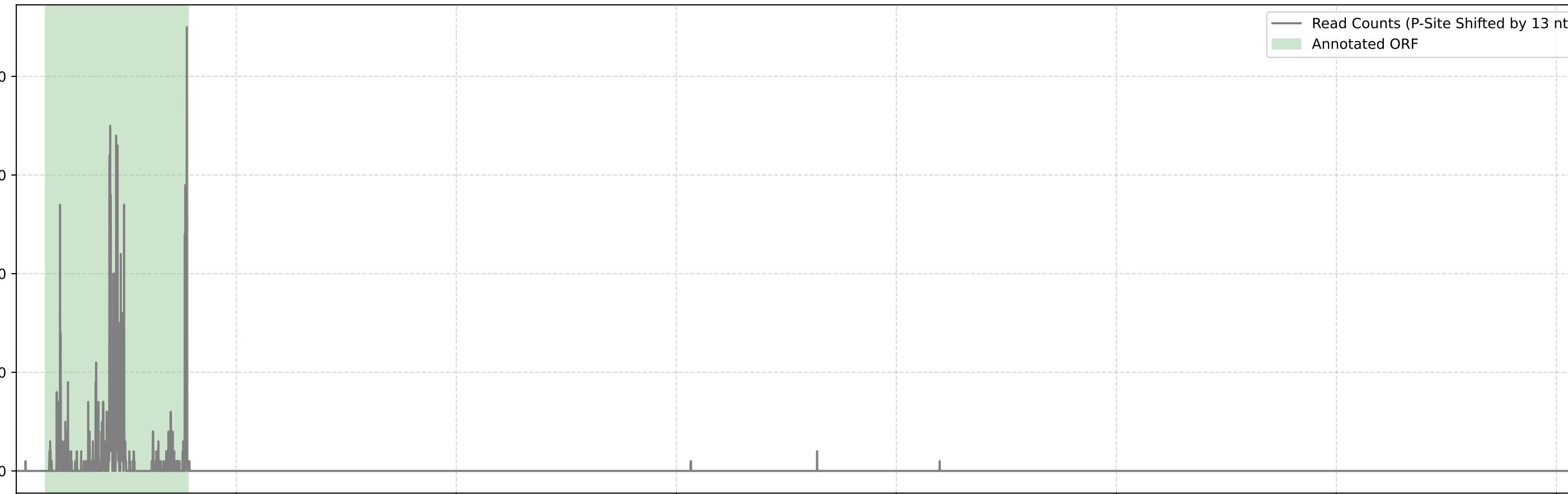
5'UTR
Pre-INIT-1
Pre-INIT-2
Pre-INIT-3
INIT
Post-INIT-1
Post-INIT-2
T1
T2
T3
Pre-TERM-1
Pre-TERM-2
Pre-TERM-3
TERM
Post-TERM-1
Post-TERM-2
3'UTR

Example: 18th Percentile (by TPM) Transcript (ENST00000306107.9)
Total Reads: 706 | TPM: 458.30

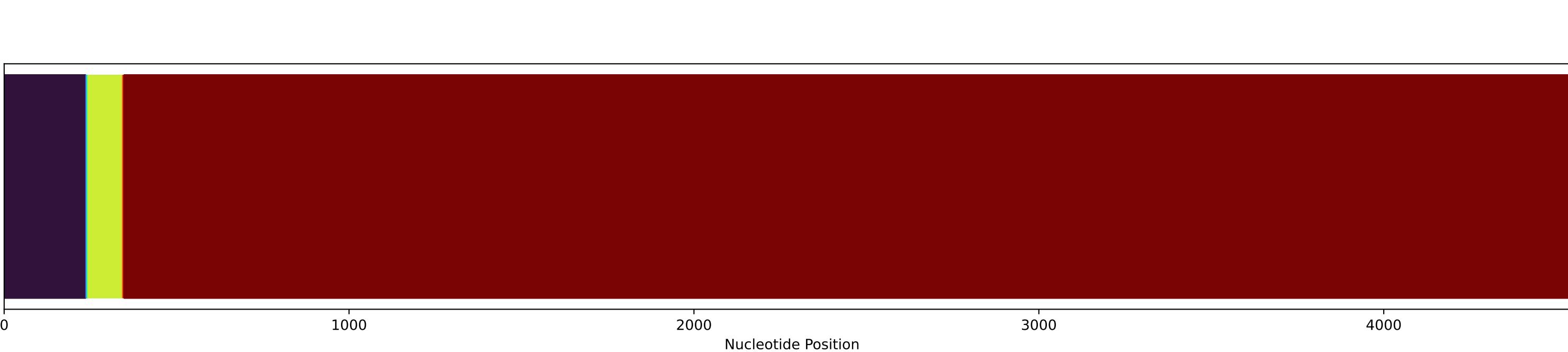
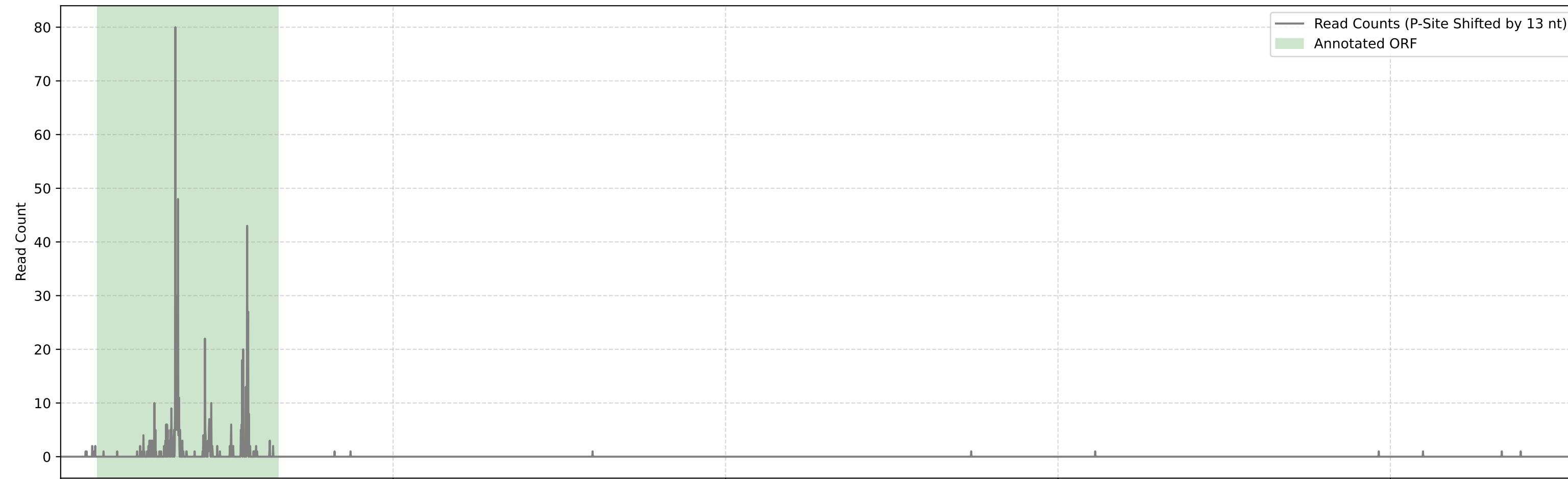


- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

Example: 19th Percentile (by TPM) Transcript (ENST00000396203.7)
Total Reads: 1,102 | TPM: 471.26

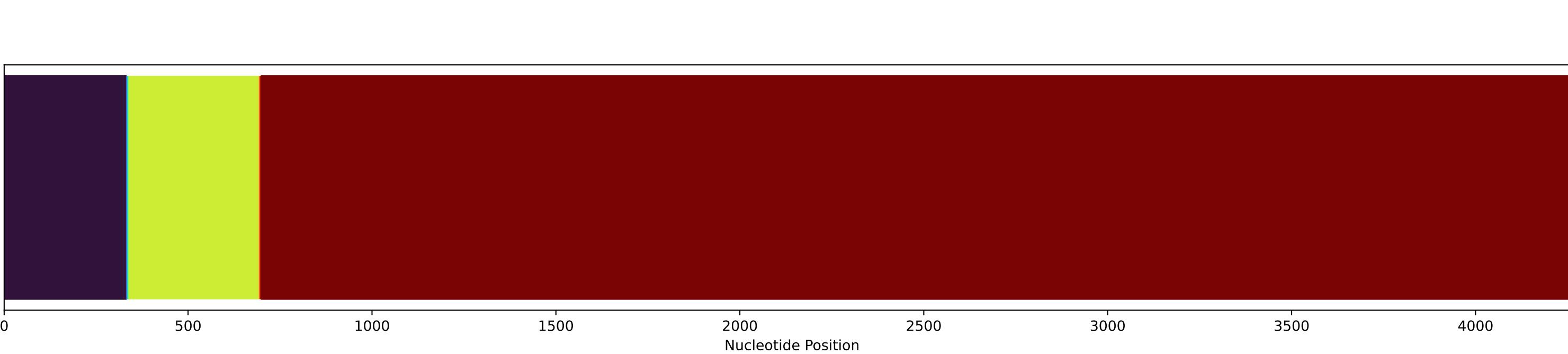
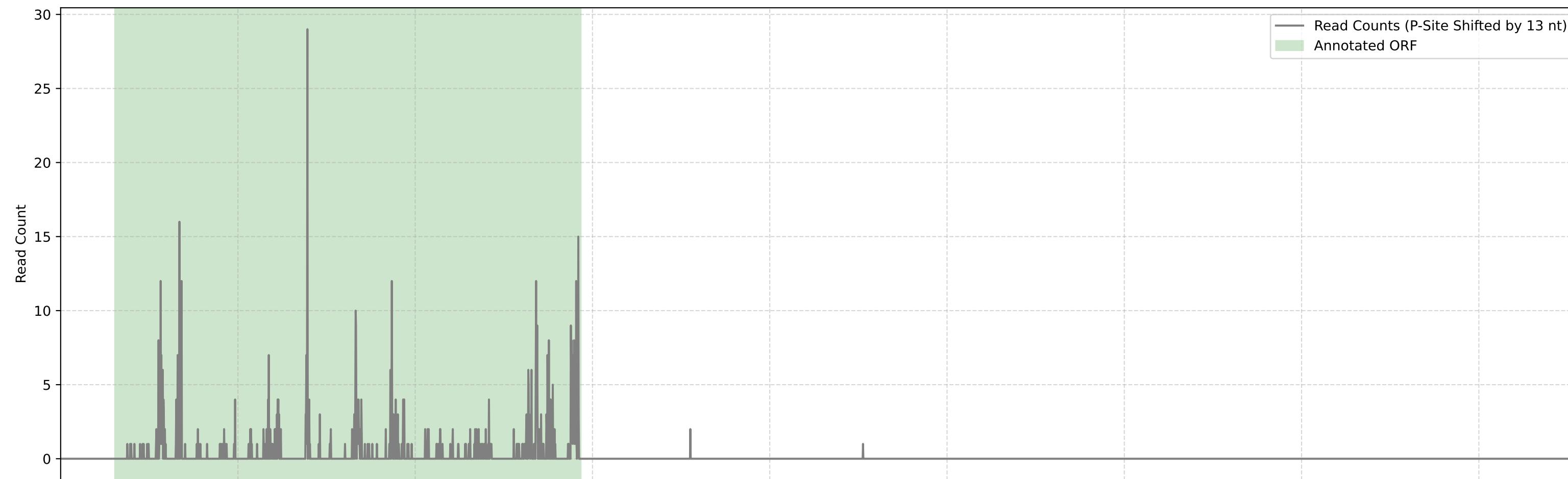


Example: 20th Percentile (by TPM) Transcript (ENST00000503362.2)
Total Reads: 731 | TPM: 488.24

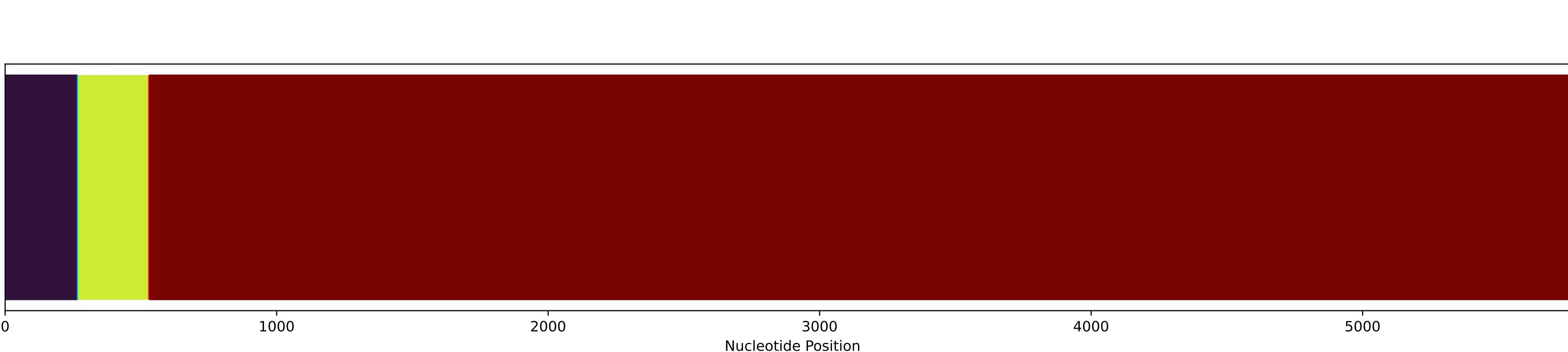
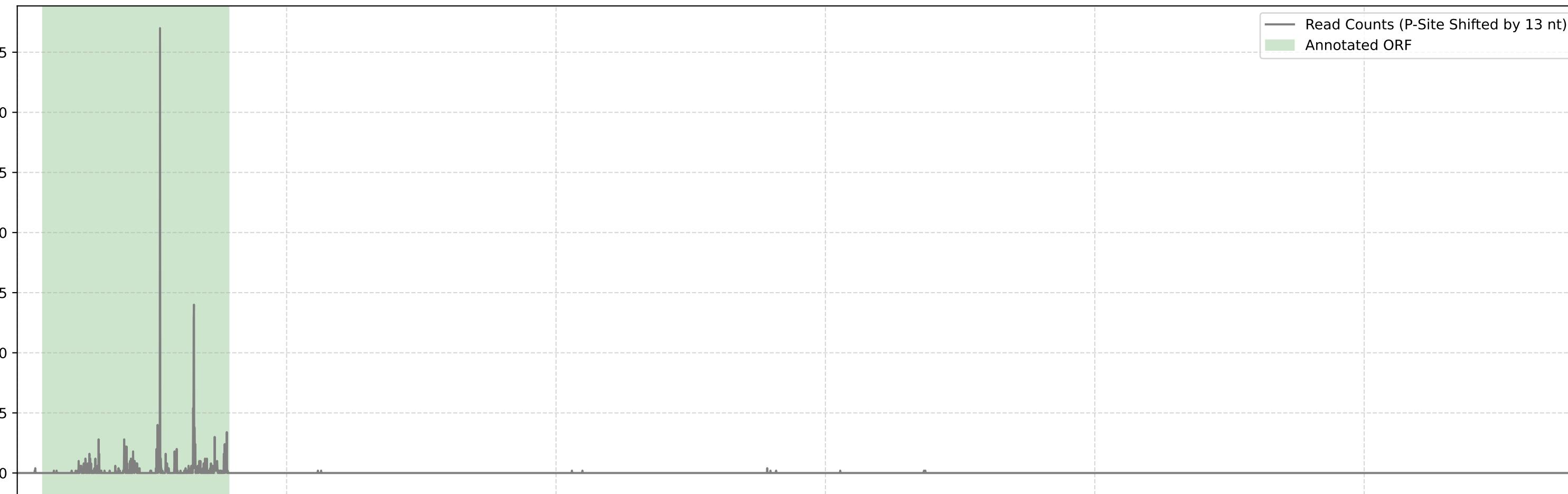


5'UTR
Pre-INIT-1
Pre-INIT-2
Pre-INIT-3
INIT
Post-INIT-1
Post-INIT-2
T1
T2
T3
Pre-TERM-1
Pre-TERM-2
Pre-TERM-3
TERM
Post-TERM-1
Post-TERM-2
3'UTR

Example: 21th Percentile (by TPM) Transcript (ENST00000350320.11)
Total Reads: 711 | TPM: 506.47

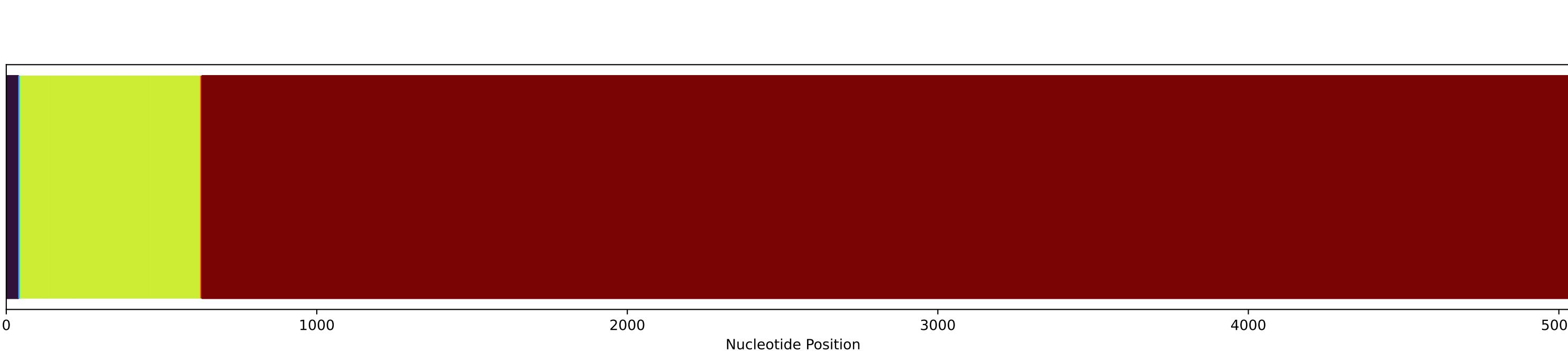
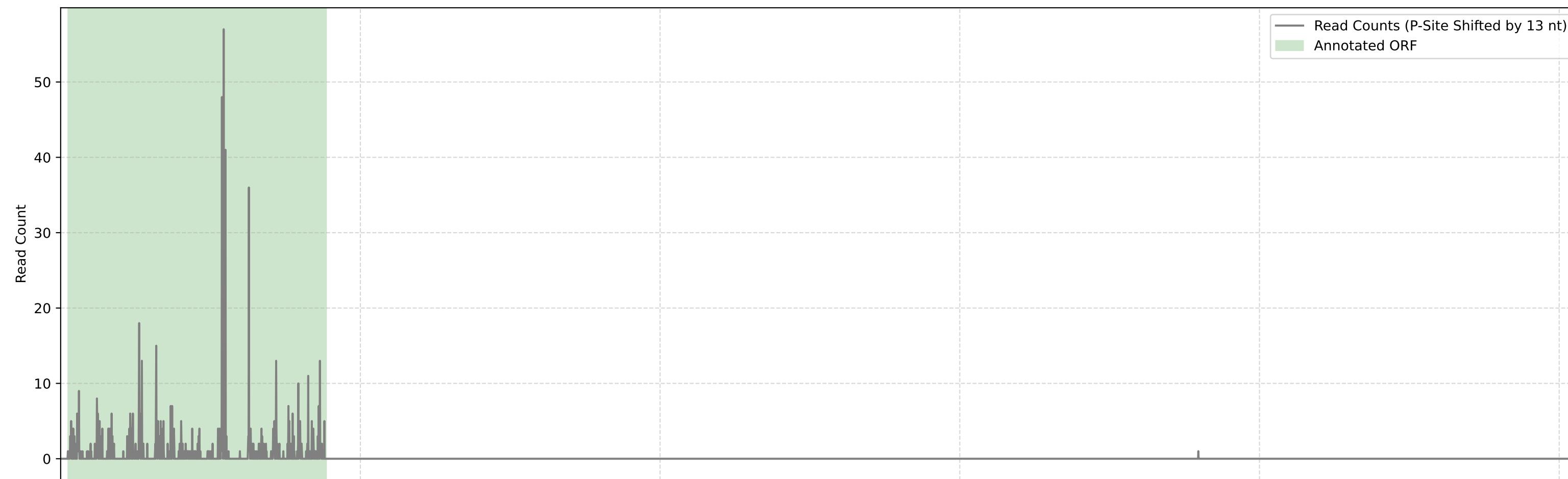


Example: 22th Percentile (by TPM) Transcript (ENST00000606162.6)
Total Reads: 1,033 | TPM: 543.42



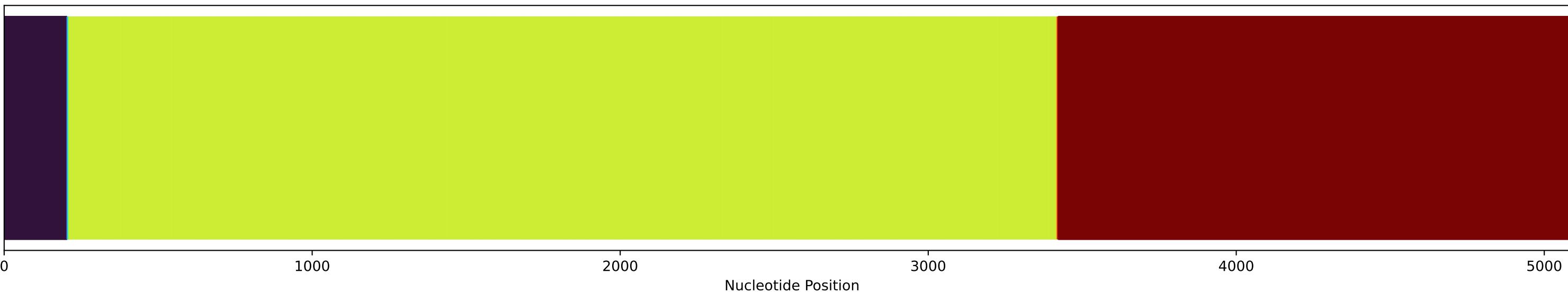
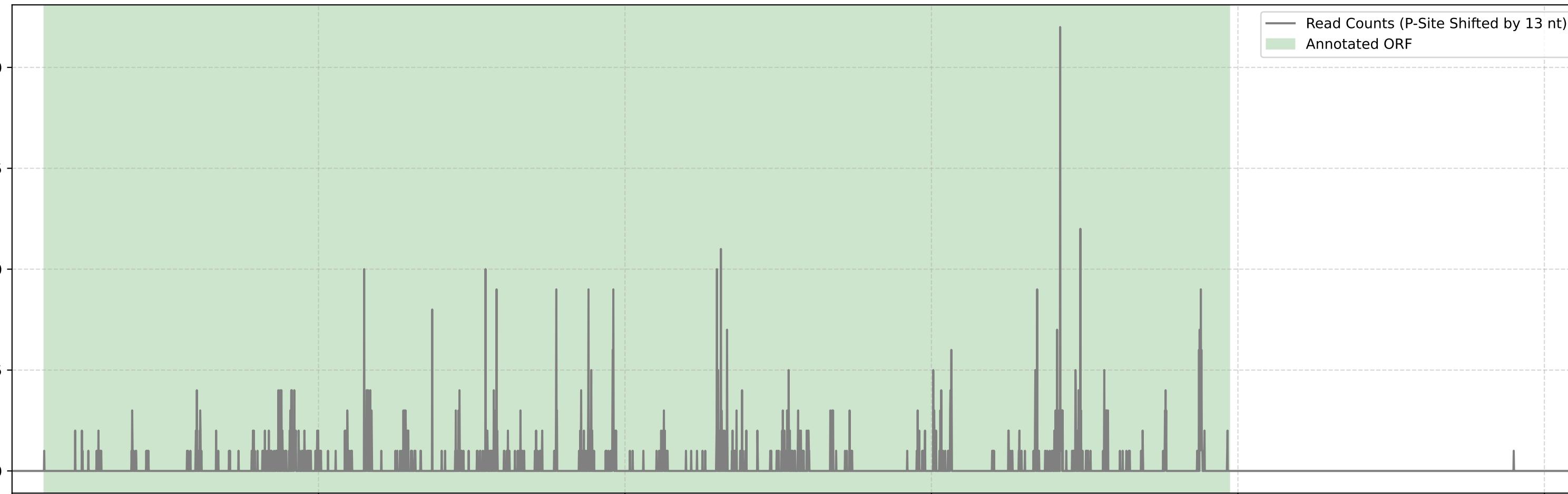
- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

Example: 23th Percentile (by TPM) Transcript (ENST00000361183.8)
Total Reads: 930 | TPM: 559.99

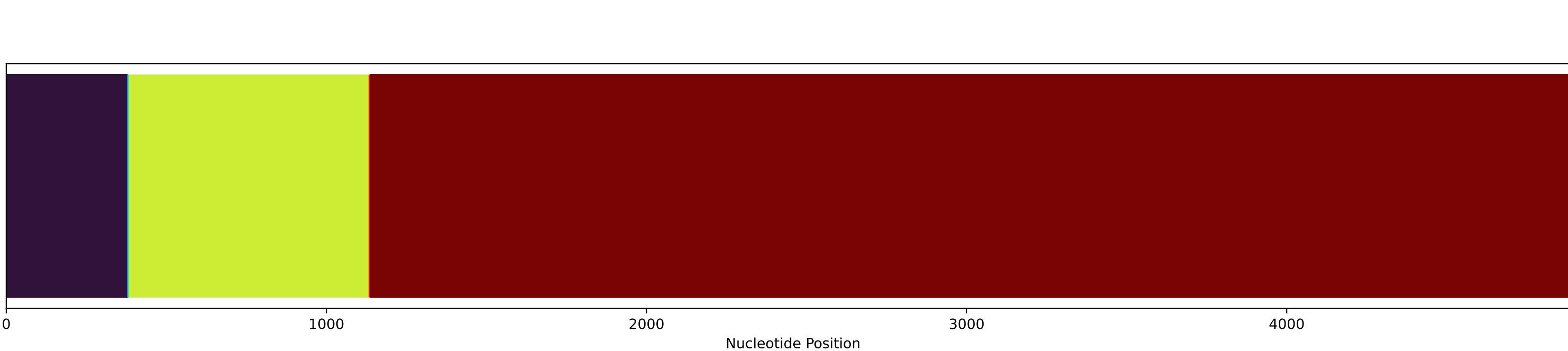
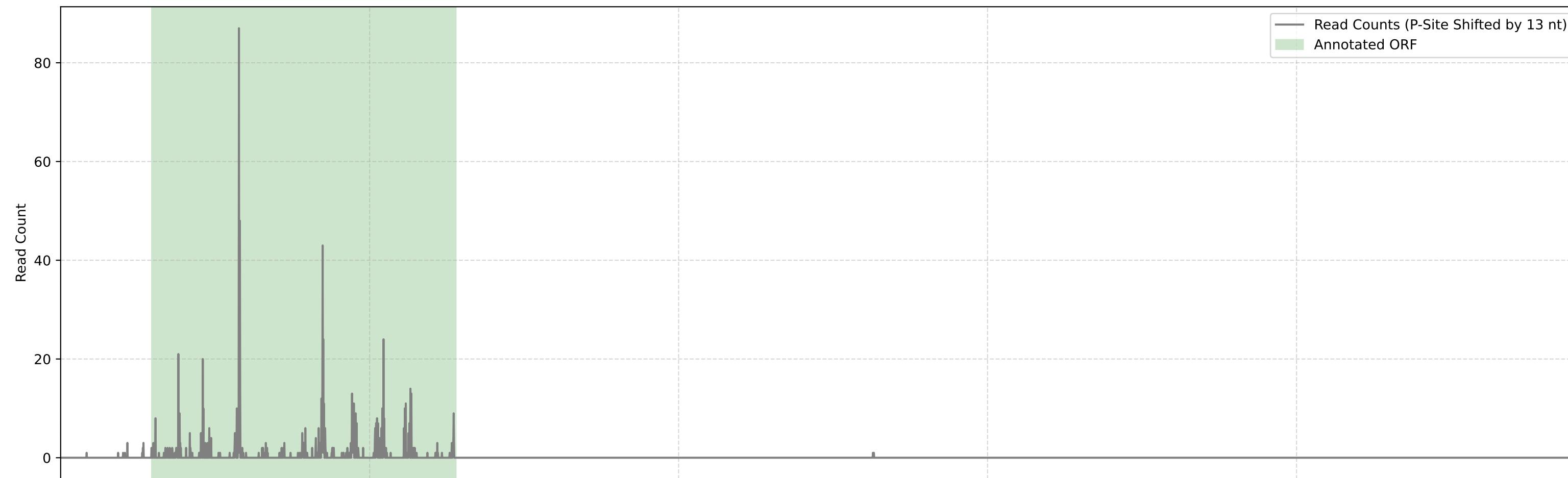


5'UTR
Pre-INIT-1
Pre-INIT-2
Pre-INIT-3
INIT
Post-INIT-1
Post-INIT-2
T1
T2
T3
Pre-TERM-1
Pre-TERM-2
Pre-TERM-3
TERM
Post-TERM-1
Post-TERM-2
3'UTR

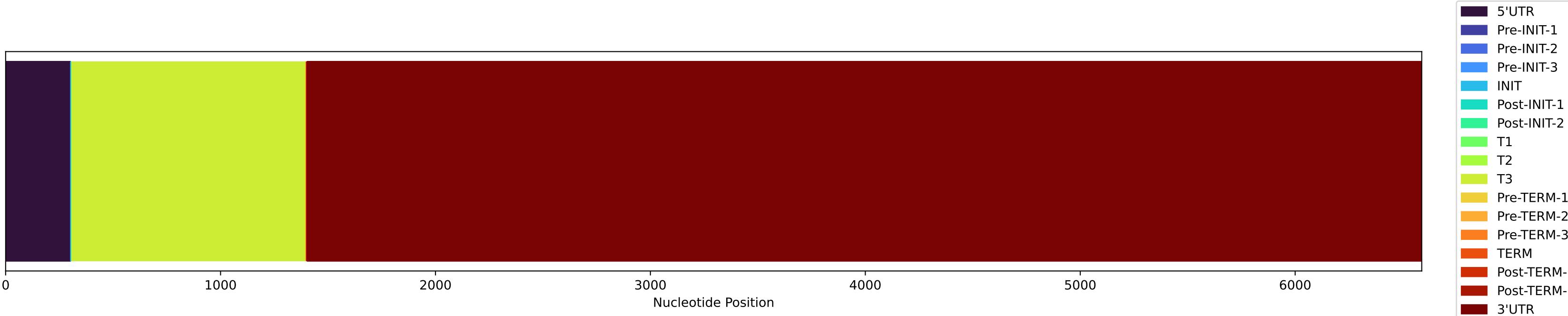
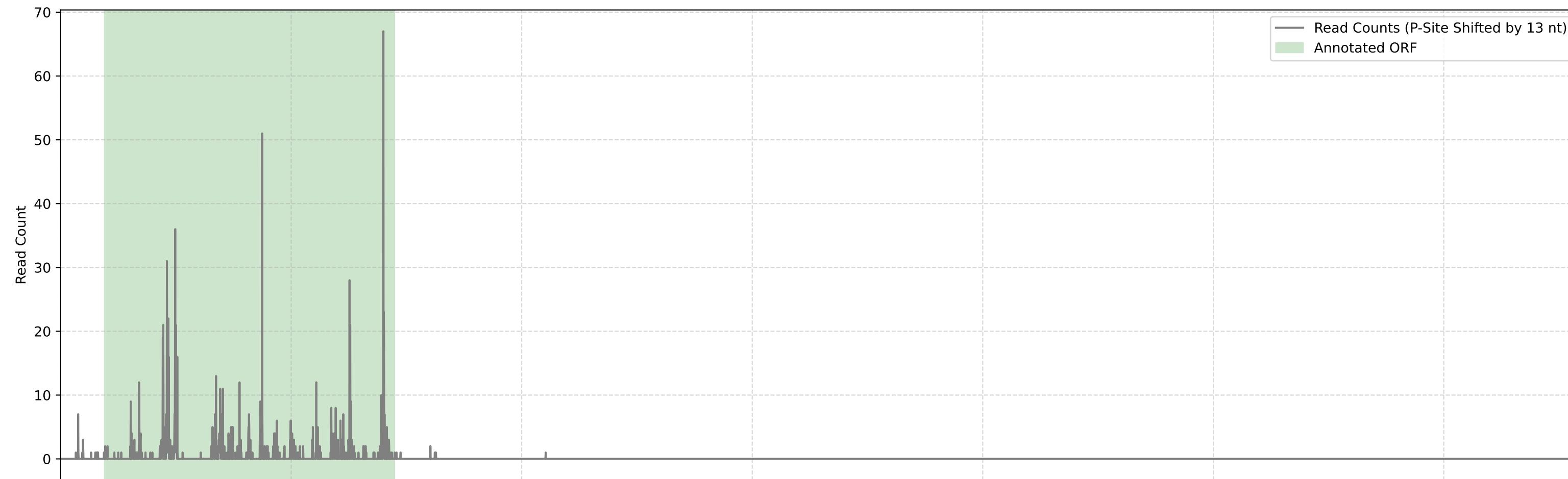
Example: 24th Percentile (by TPM) Transcript (ENST00000357388.8)
Total Reads: 956 | TPM: 570.25



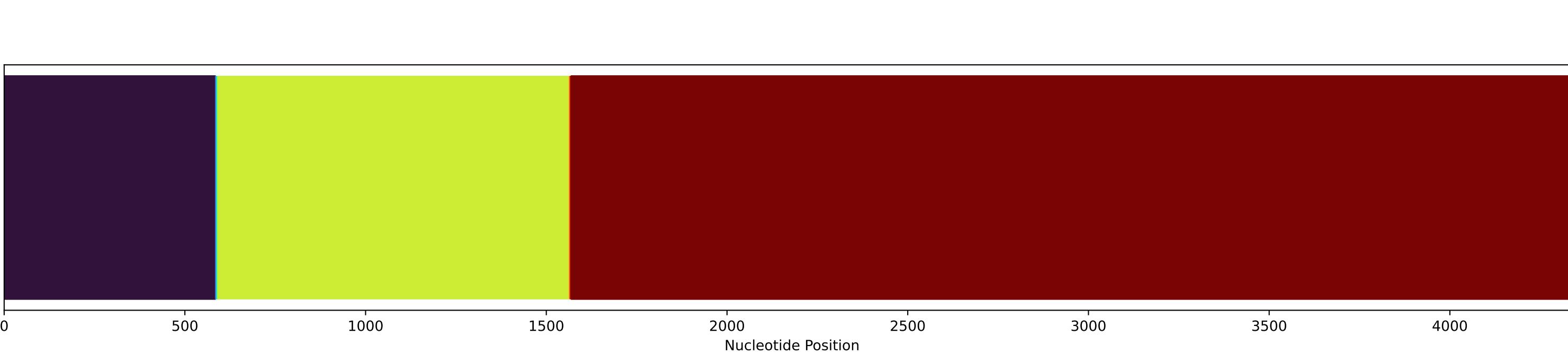
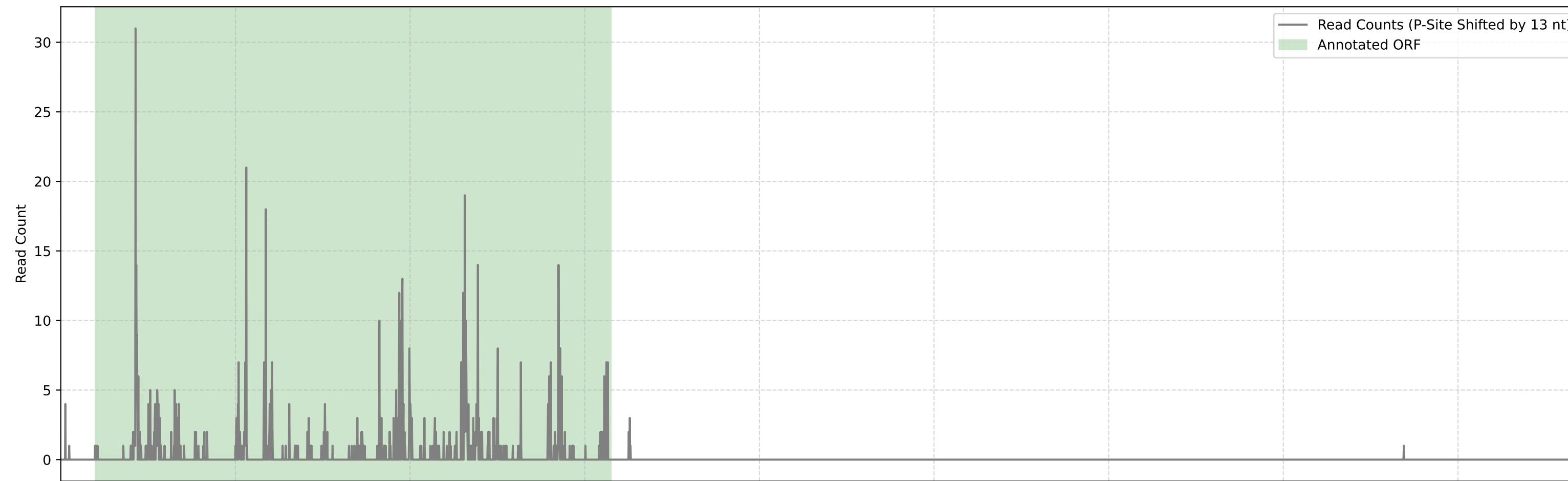
Example: 25th Percentile (by TPM) Transcript (ENST00000395366.3)
Total Reads: 942 | TPM: 584.76



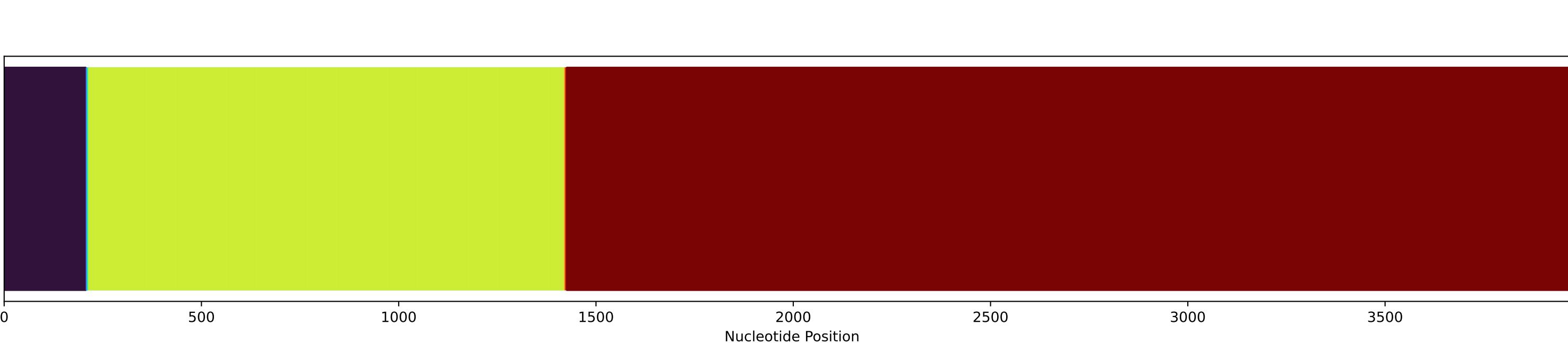
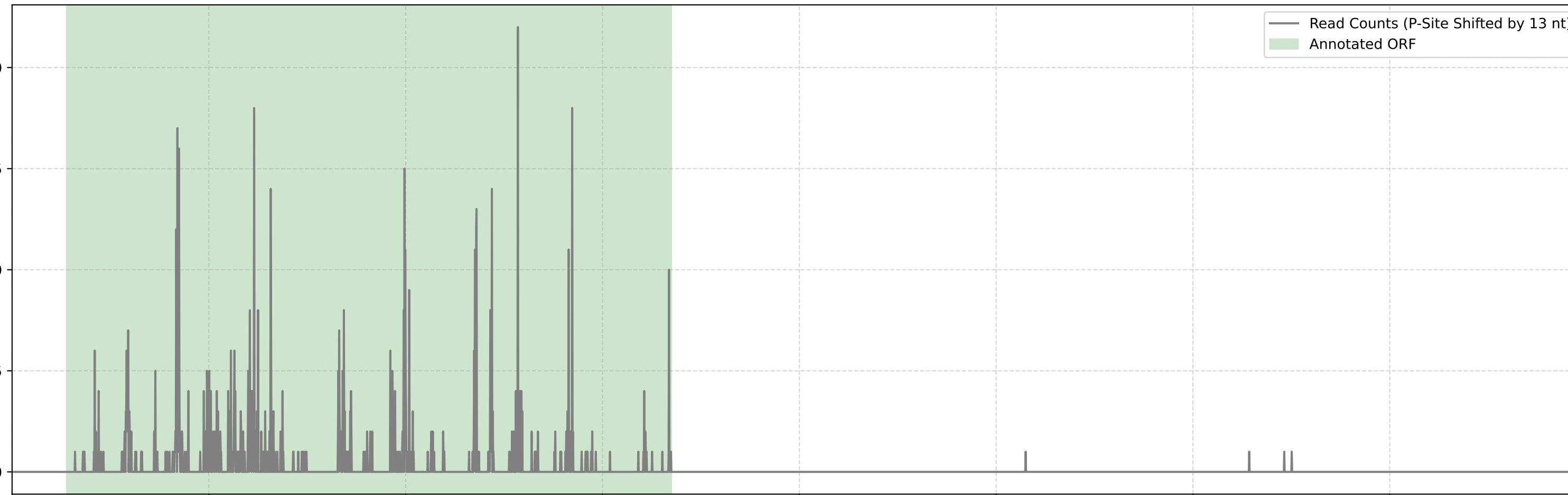
Example: 26th Percentile (by TPM) Transcript (ENST00000263238.7)
Total Reads: 1,272 | TPM: 589.12



Example: 27th Percentile (by TPM) Transcript (ENST00000222553.8)
Total Reads: 875 | TPM: 612.43

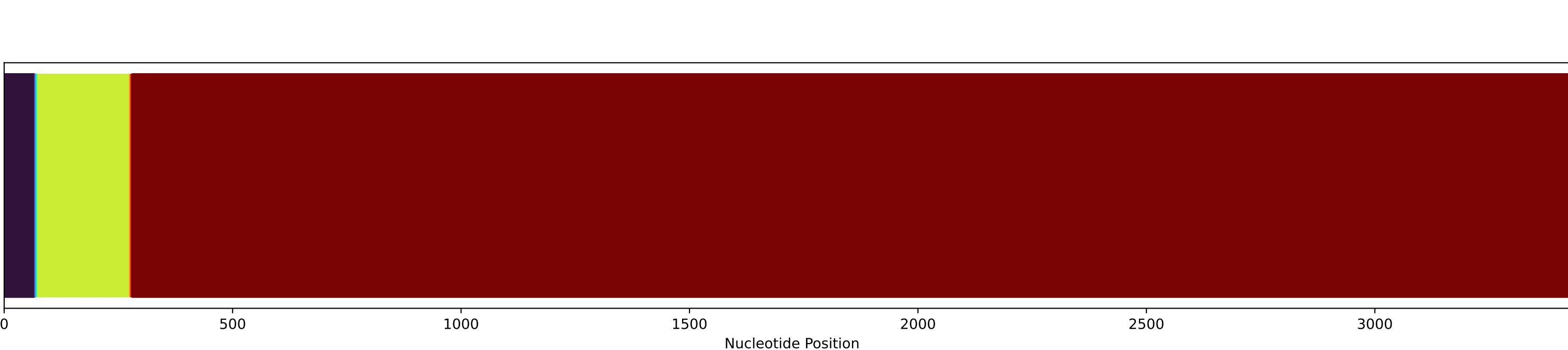
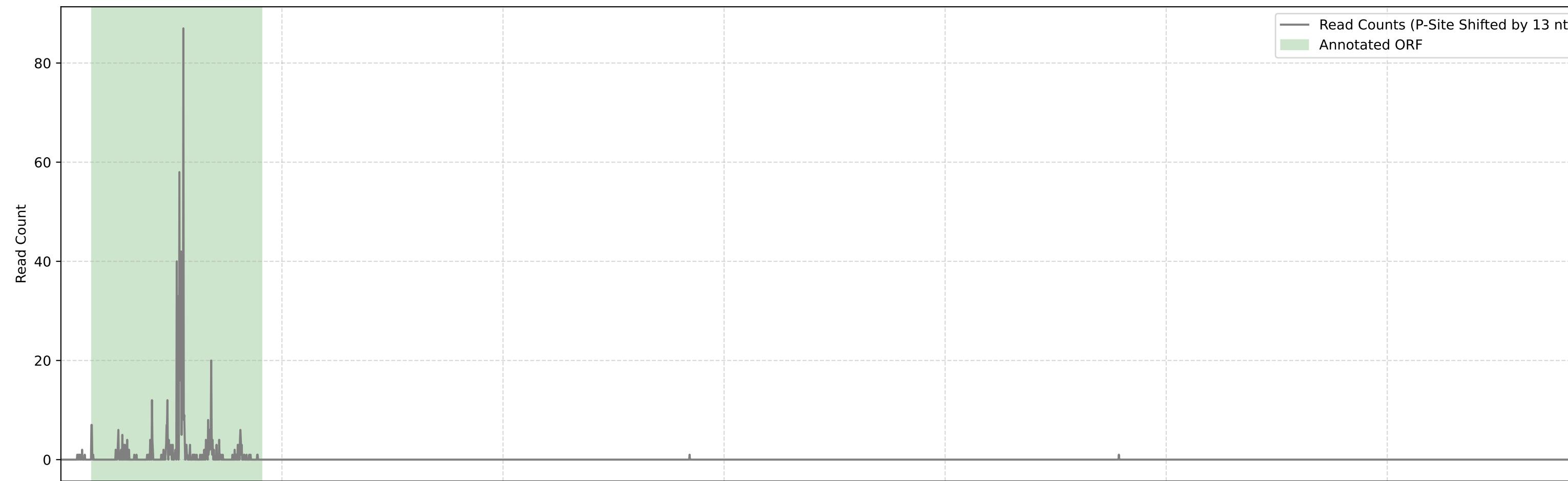


Example: 28th Percentile (by TPM) Transcript (ENST00000264028.5)
Total Reads: 807 | TPM: 616.60



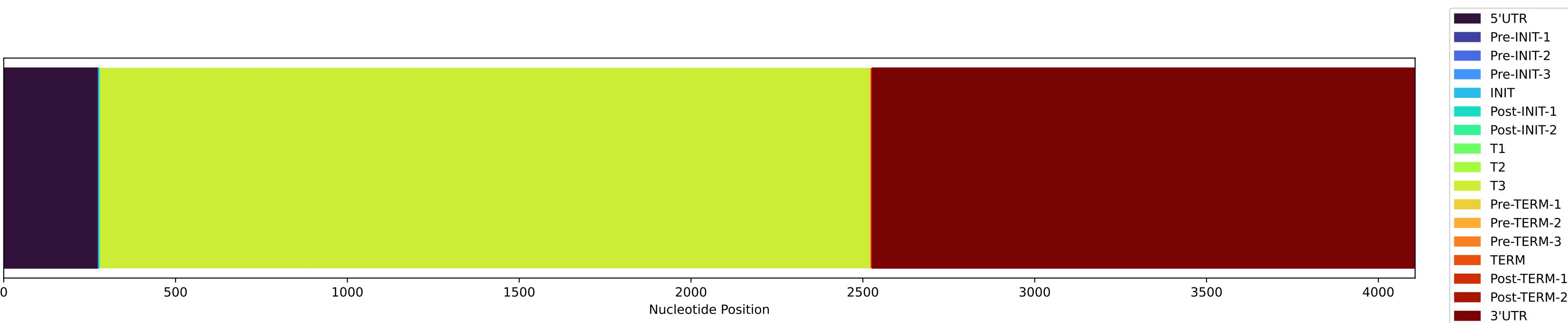
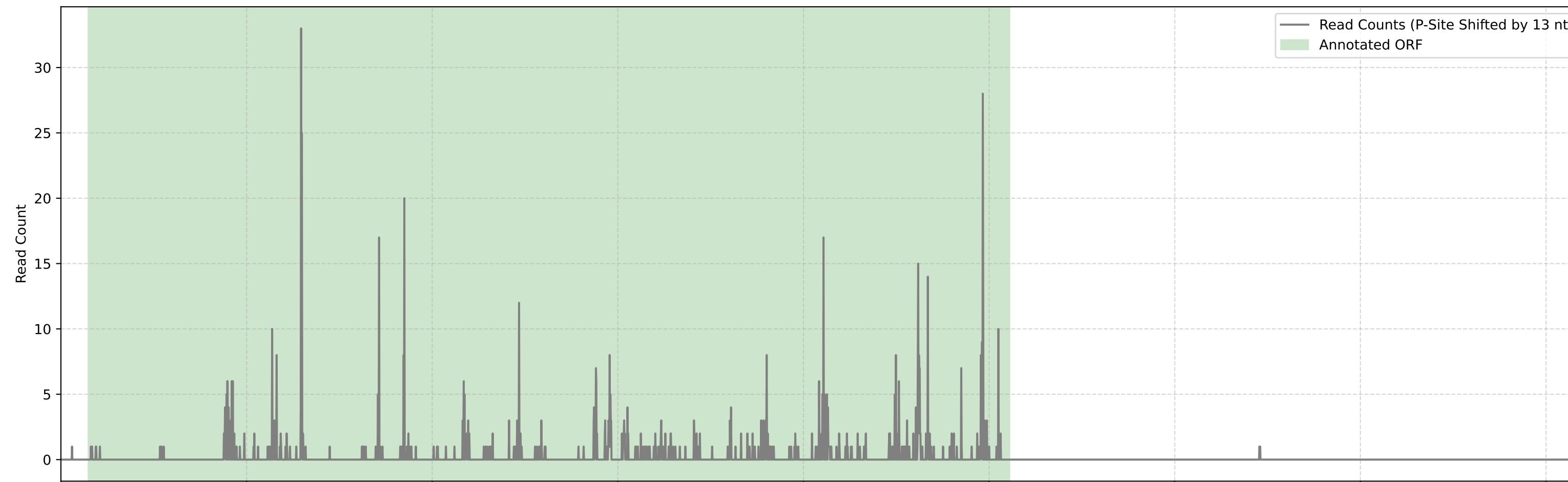
- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

Example: 29th Percentile (by TPM) Transcript (ENST00000265073.9)
Total Reads: 713 | TPM: 630.86

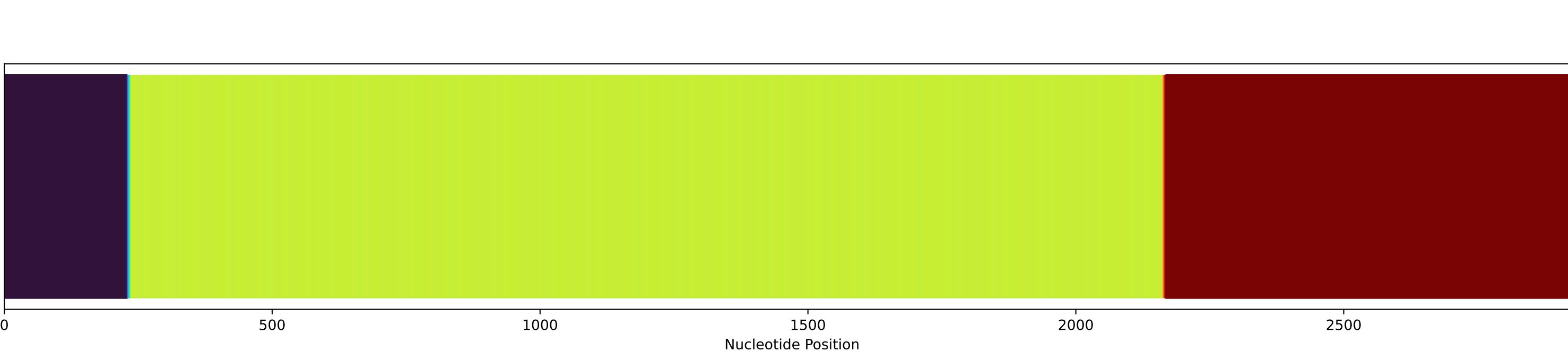
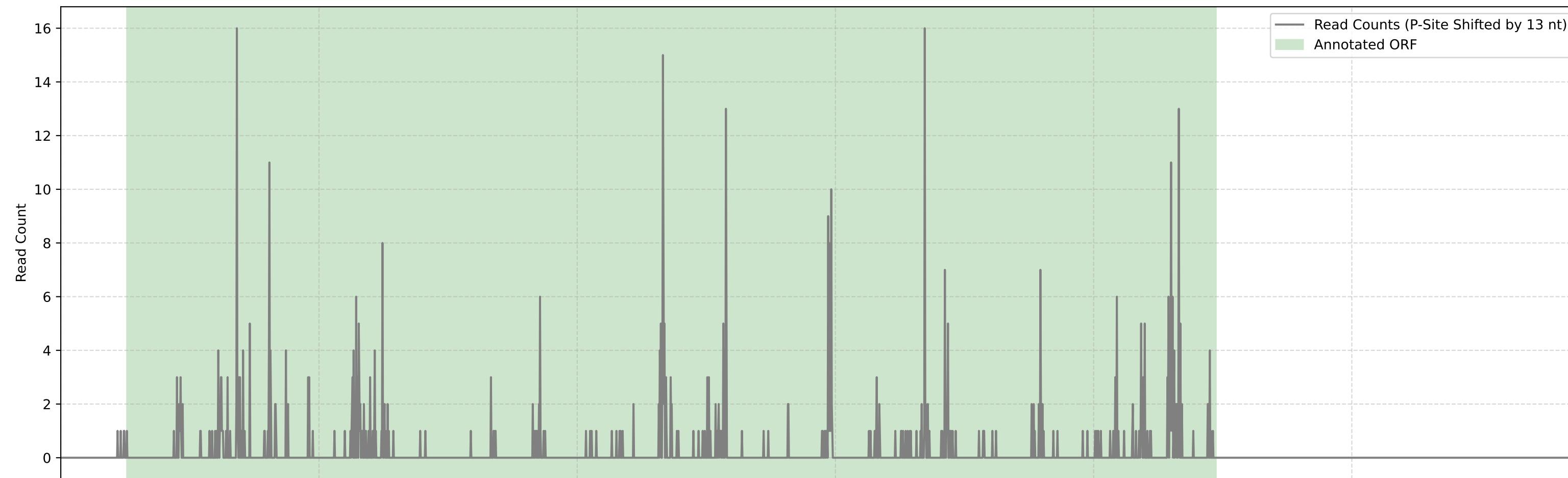


5'UTR
Pre-INIT-1
Pre-INIT-2
Pre-INIT-3
INIT
Post-INIT-1
Post-INIT-2
T1
T2
T3
Pre-TERM-1
Pre-TERM-2
Pre-TERM-3
TERM
Post-TERM-1
Post-TERM-2
3'UTR

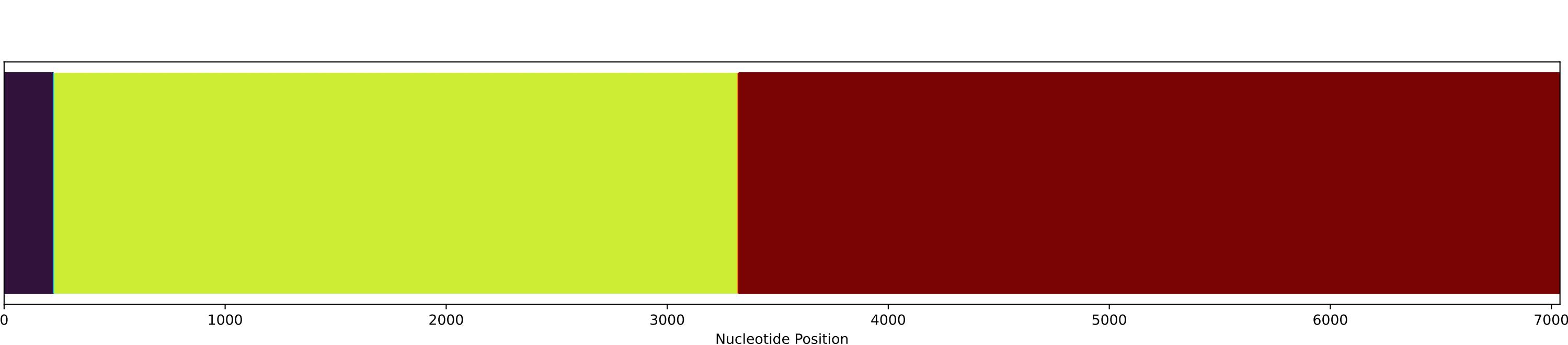
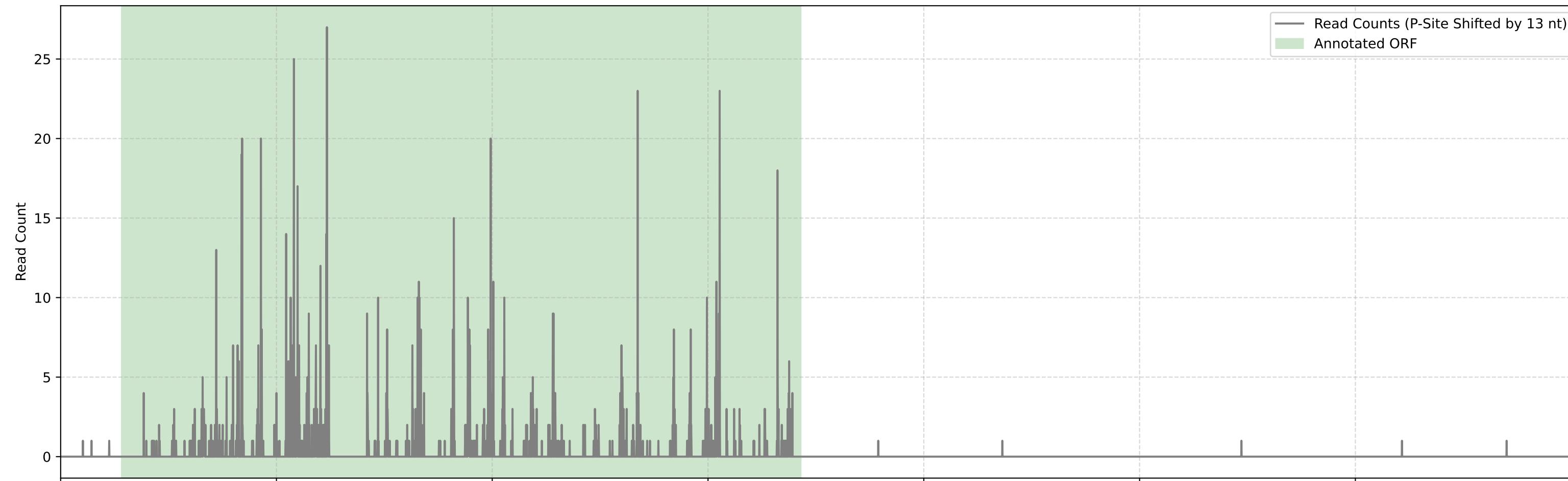
Example: 30th Percentile (by TPM) Transcript (ENST00000295770.4)
Total Reads: 864 | TPM: 641.99



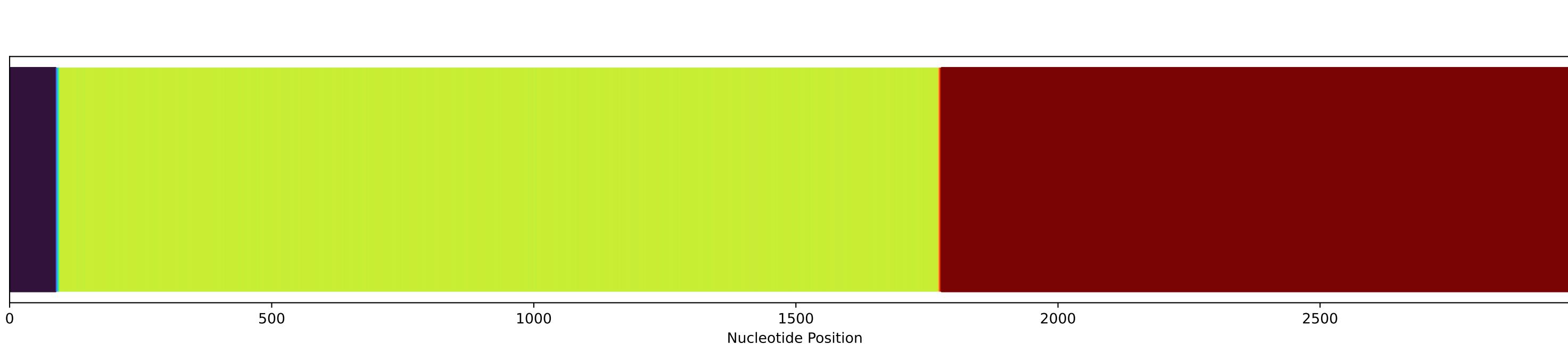
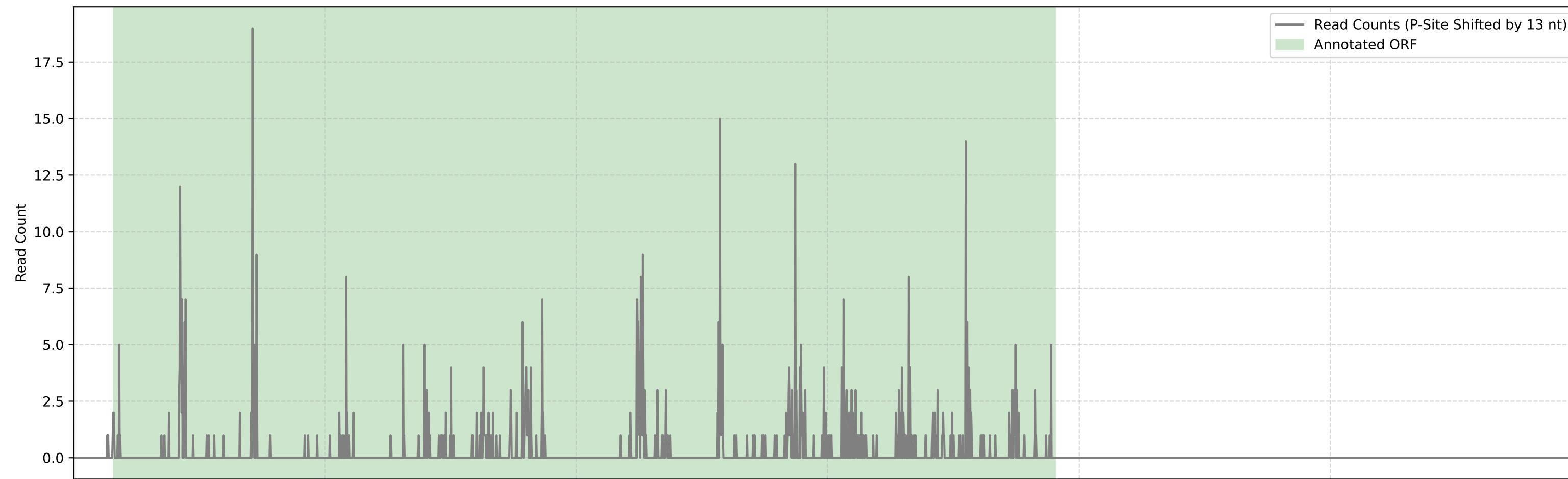
Example: 31th Percentile (by TPM) Transcript (ENST00000429644.7)
Total Reads: 626 | TPM: 649.56



Example: 32th Percentile (by TPM) Transcript (ENST00000261023.8)
Total Reads: 1,524 | TPM: 660.71

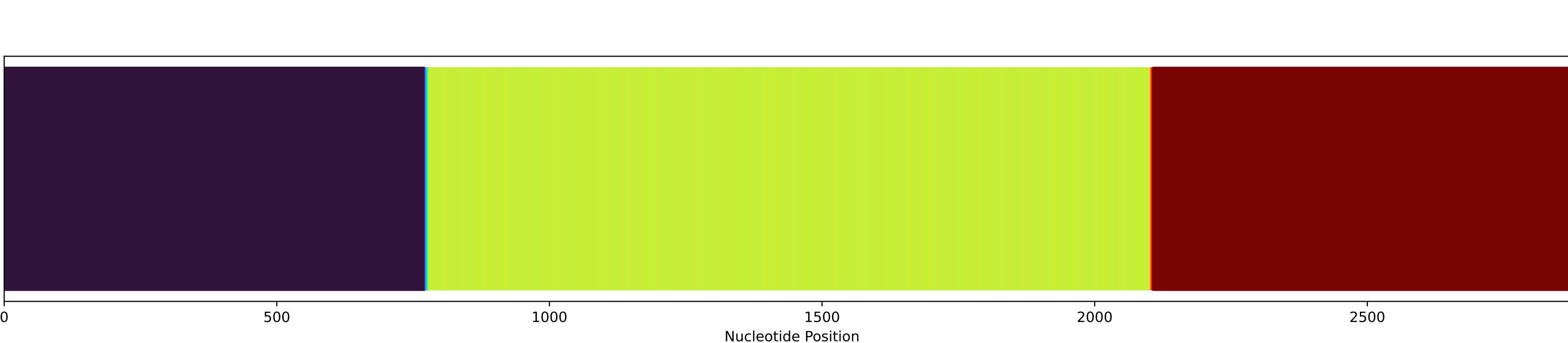
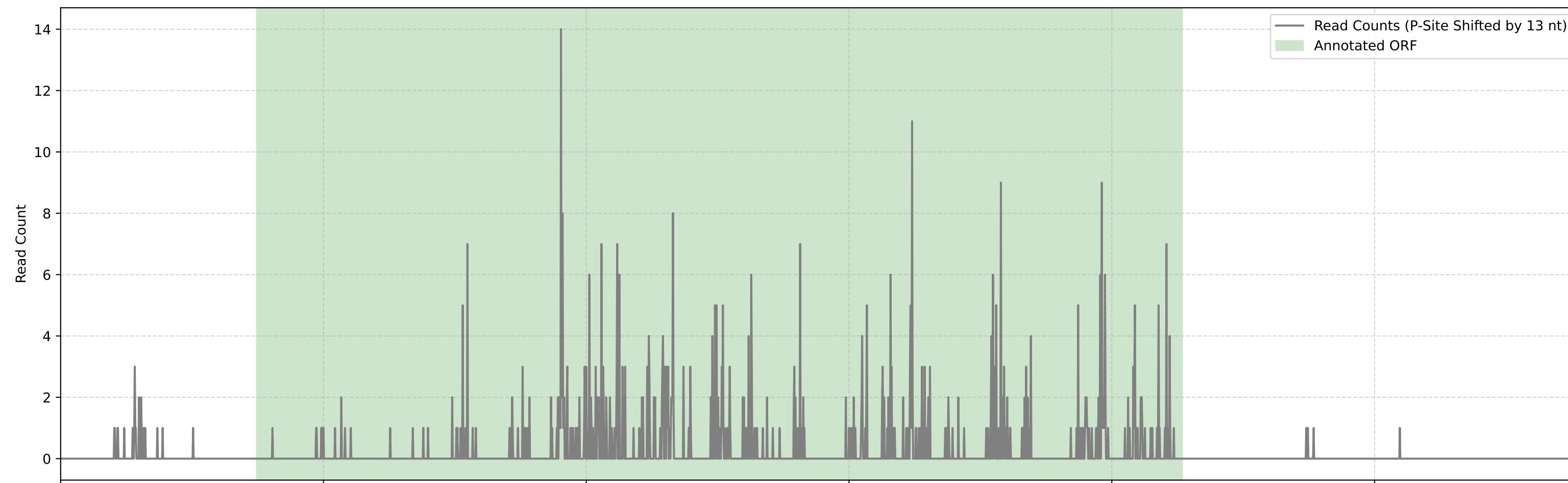


Example: 33th Percentile (by TPM) Transcript (ENST00000462138.6)
Total Reads: 678 | TPM: 690.60



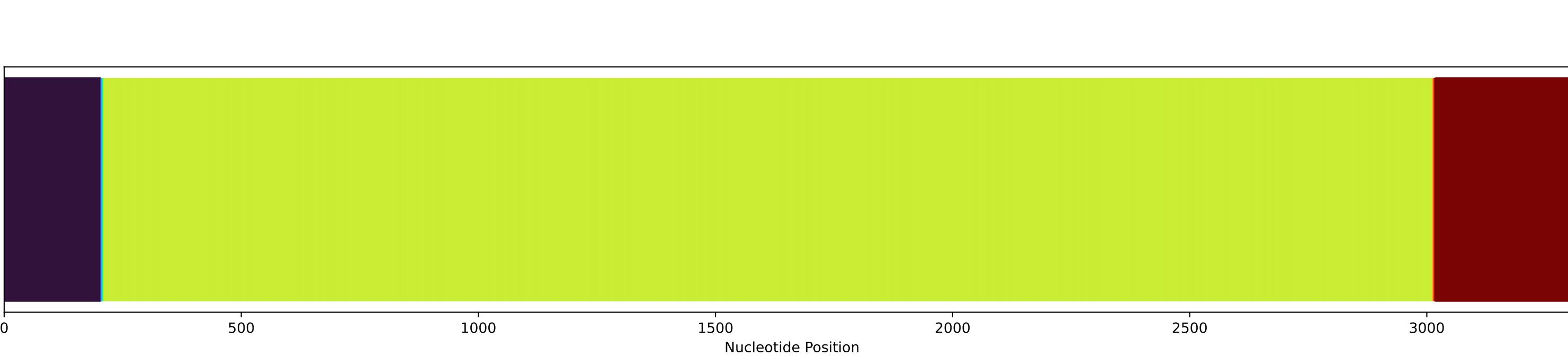
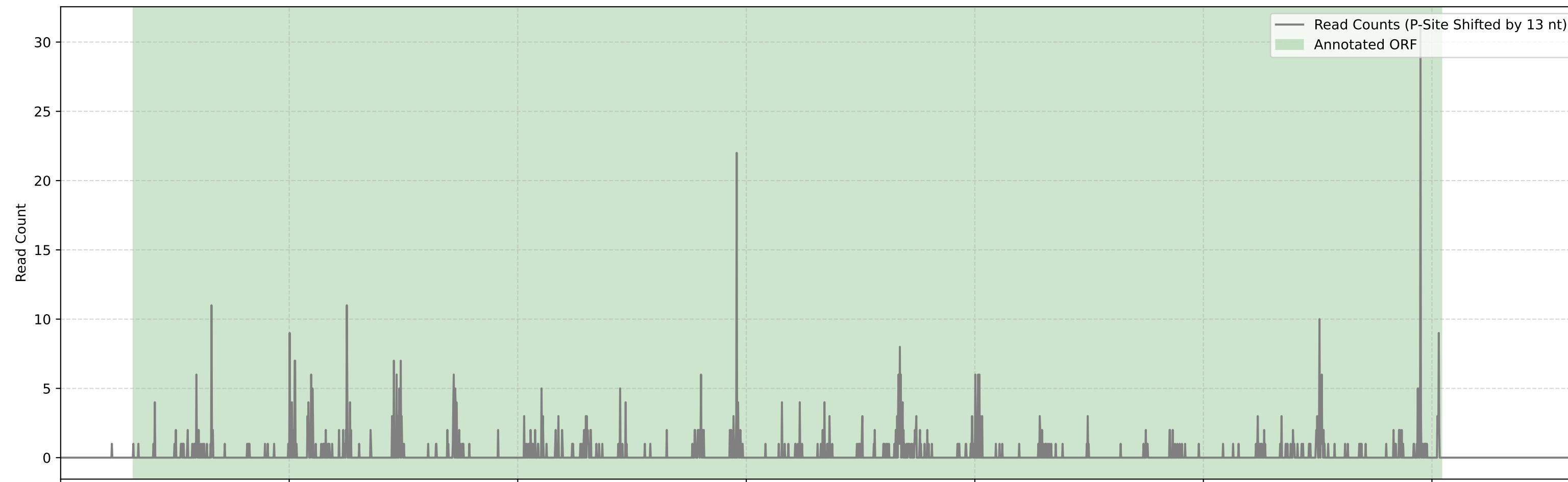
- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

Example: 34th Percentile (by TPM) Transcript (ENST00000261366.10)
Total Reads: 671 | TPM: 708.54



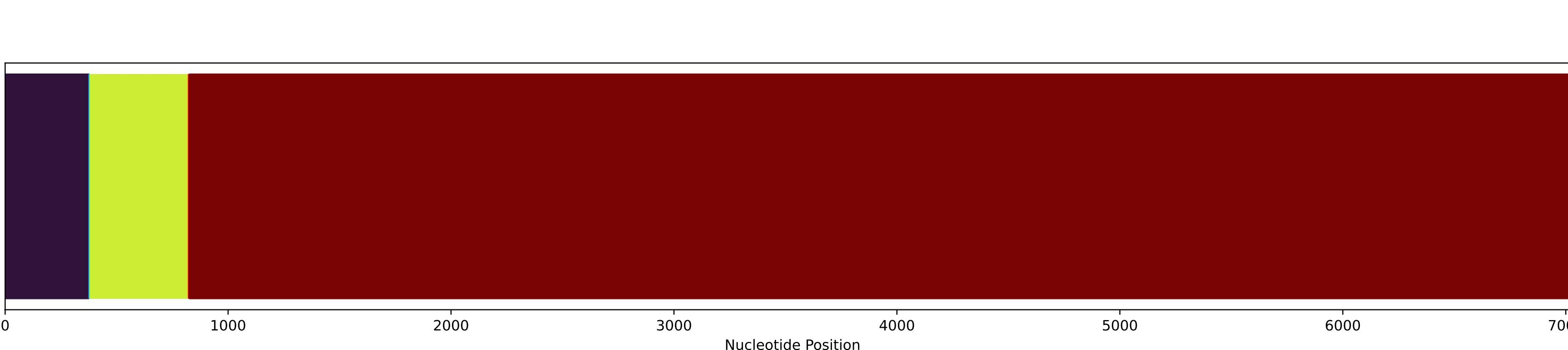
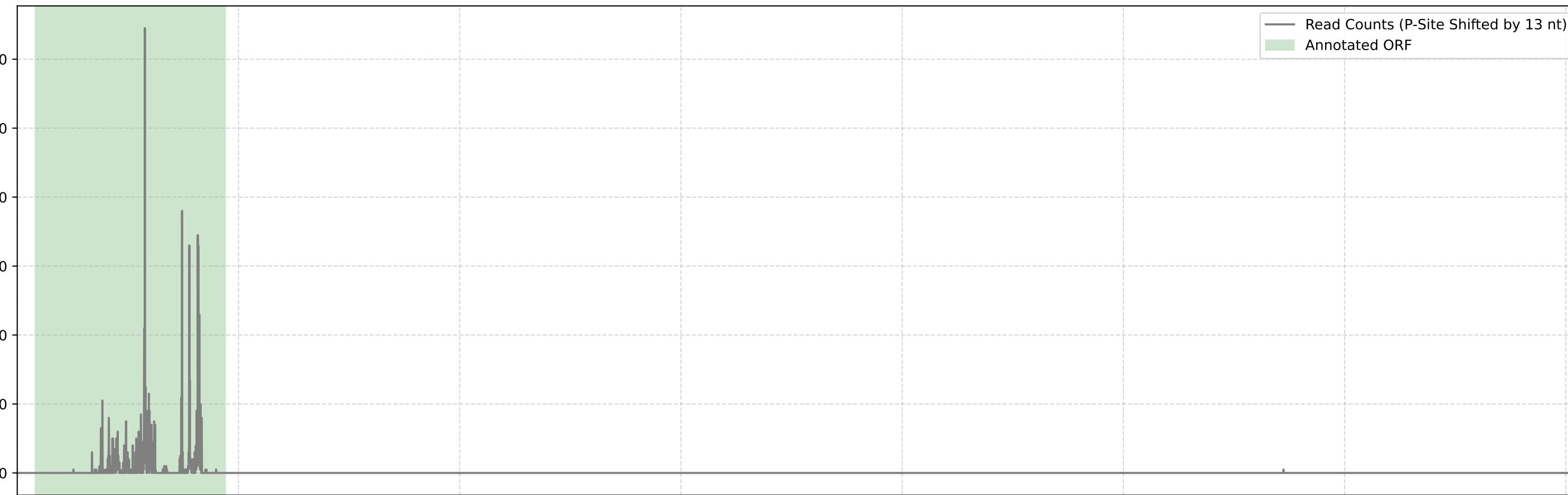
- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

Example: 35th Percentile (by TPM) Transcript (ENST00000308696.11)
Total Reads: 794 | TPM: 729.17

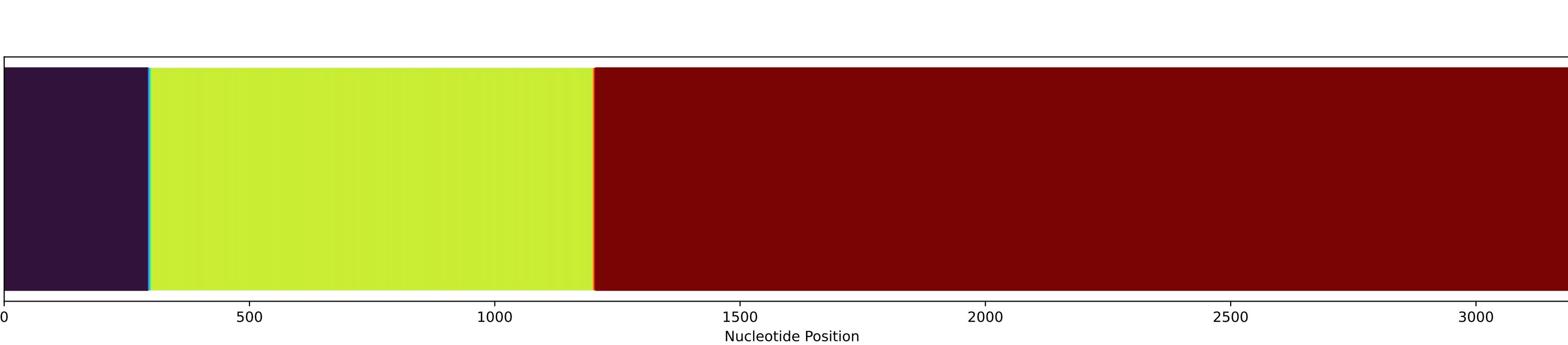
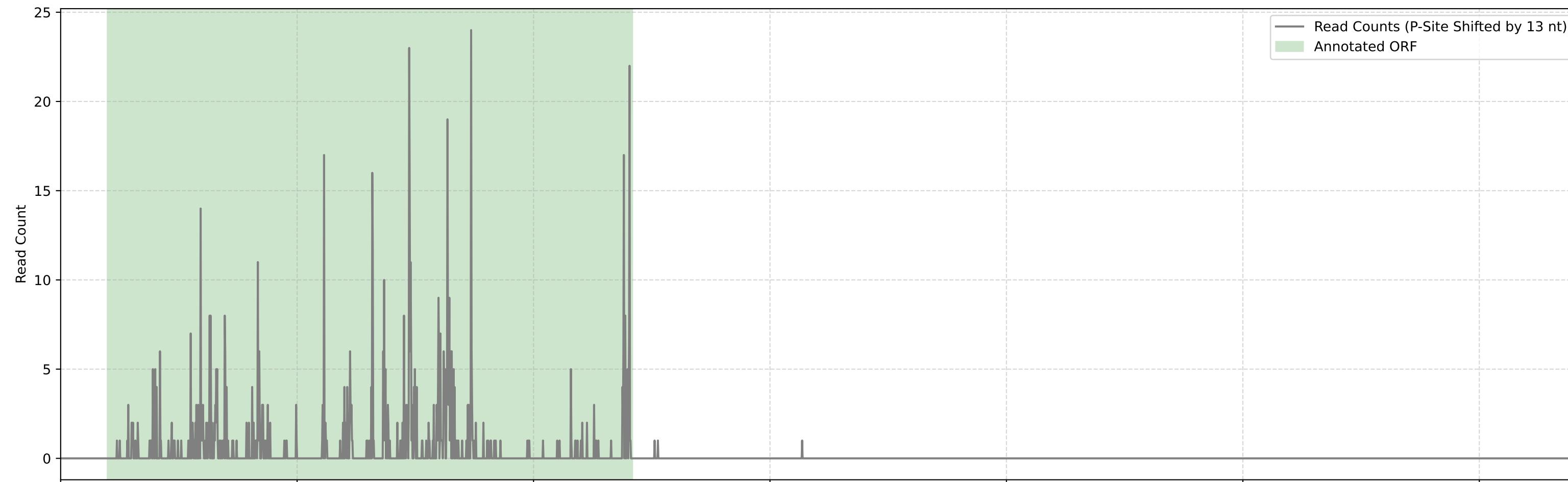


5'UTR
Pre-INIT-1
Pre-INIT-2
Pre-INIT-3
INIT
Post-INIT-1
Post-INIT-2
T1
T2
T3
Pre-TERM-1
Pre-TERM-2
Pre-TERM-3
TERM
Post-TERM-1
Post-TERM-2
3'UTR

Example: 36th Percentile (by TPM) Transcript (ENST00000651641.1)
Total Reads: 1,717 | TPM: 741.75

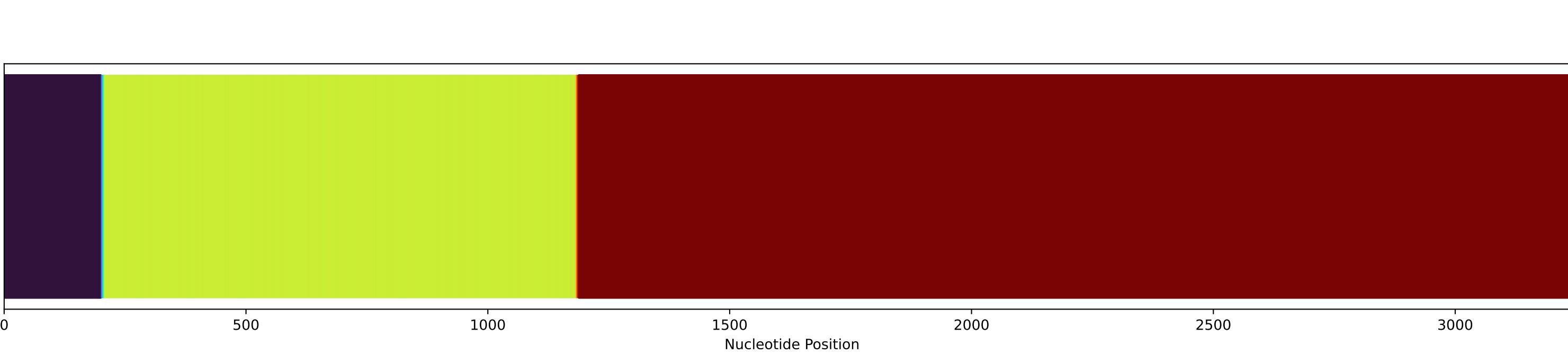
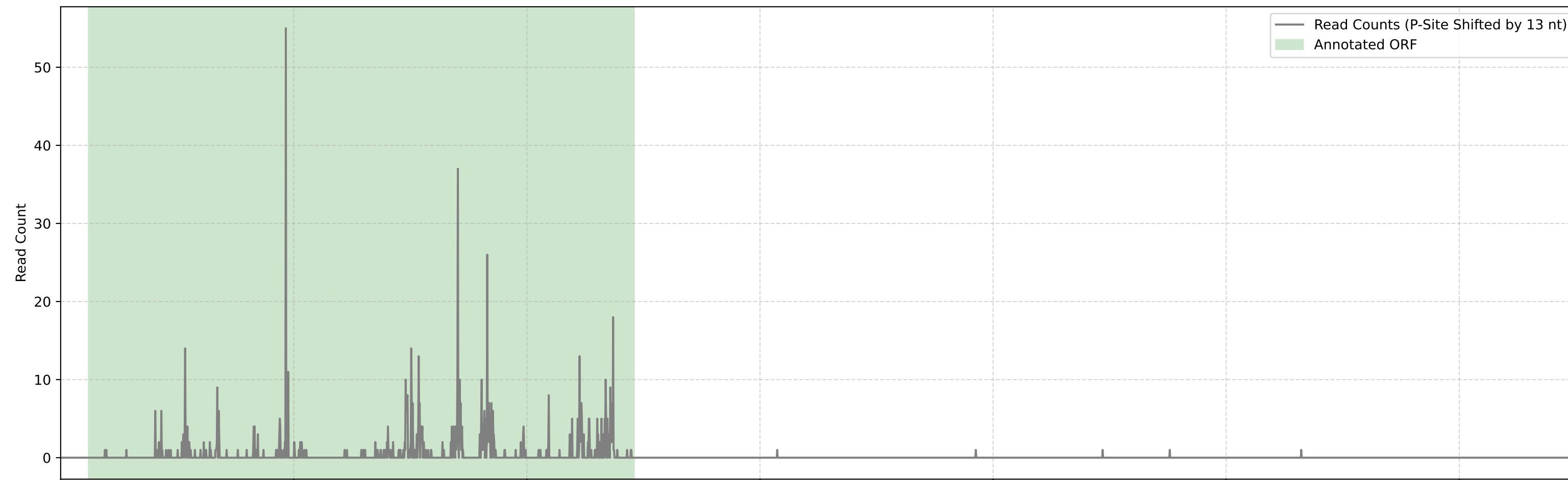


Example: 37th Percentile (by TPM) Transcript (ENST00000216218.8)
Total Reads: 810 | TPM: 769.57

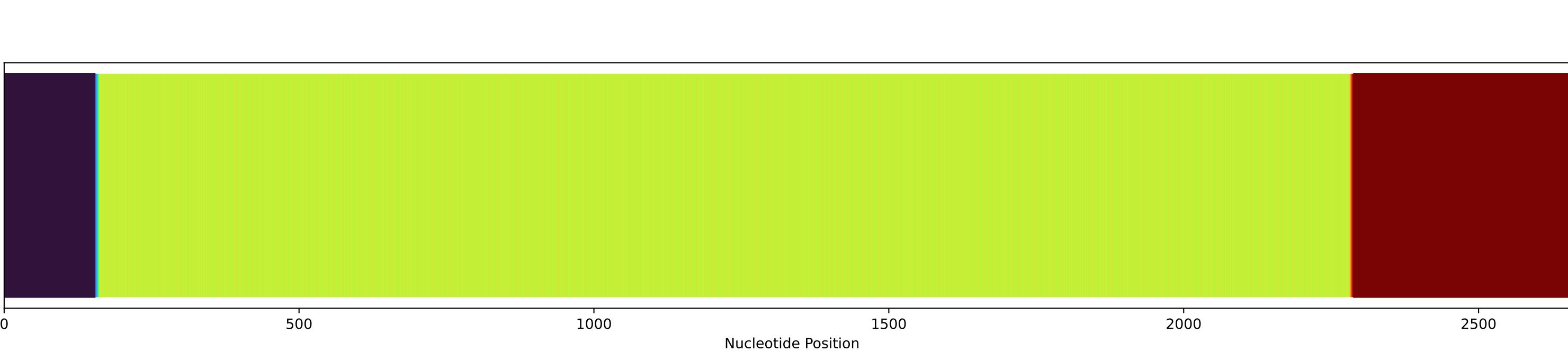
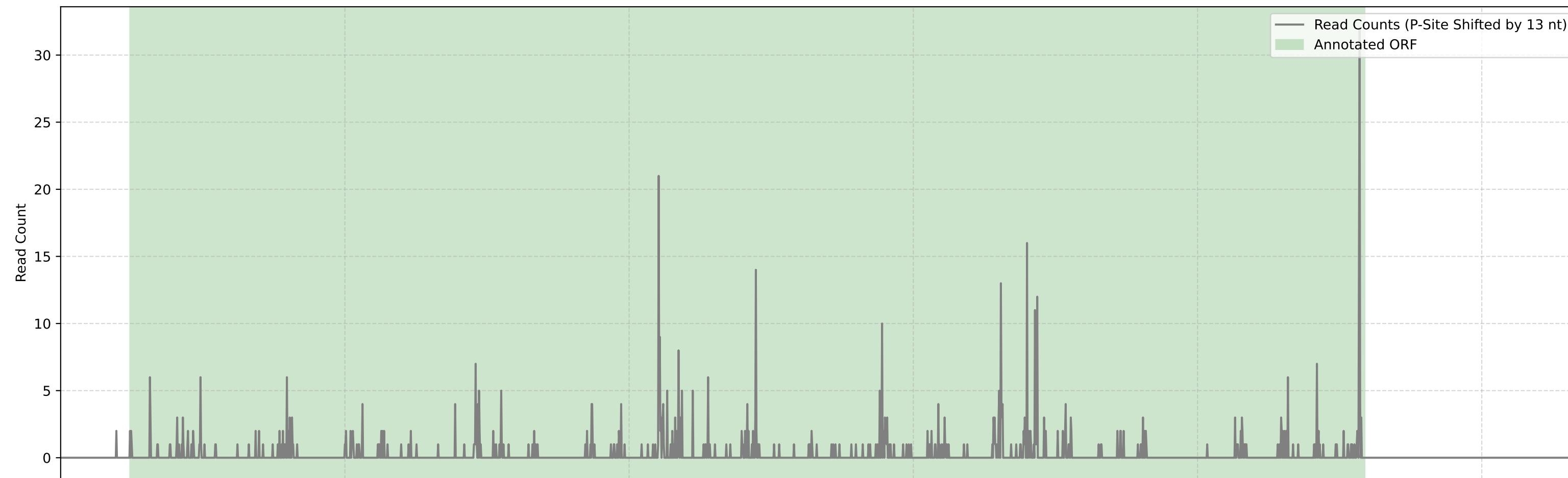


- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

Example: 38th Percentile (by TPM) Transcript (ENST00000304567.10)
Total Reads: 834 | TPM: 781.18

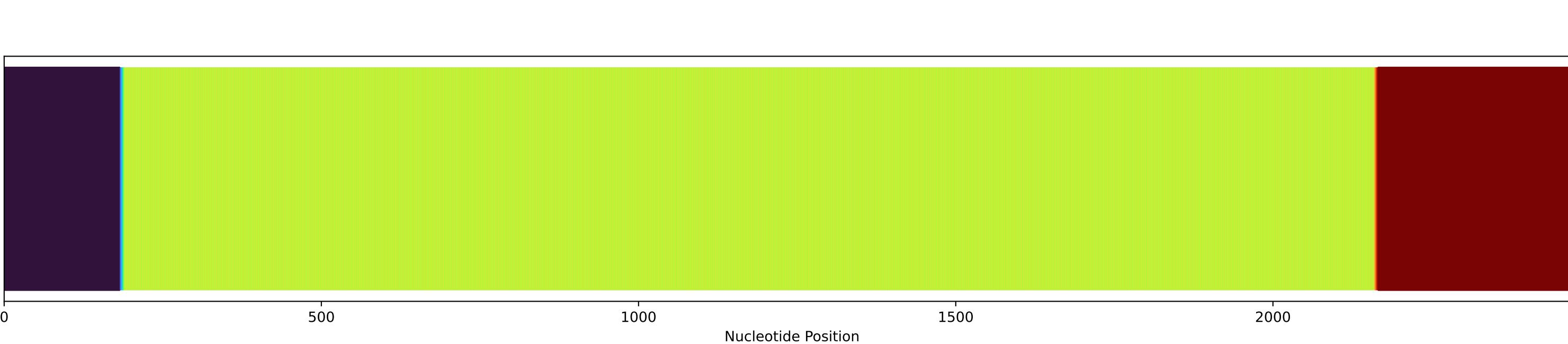
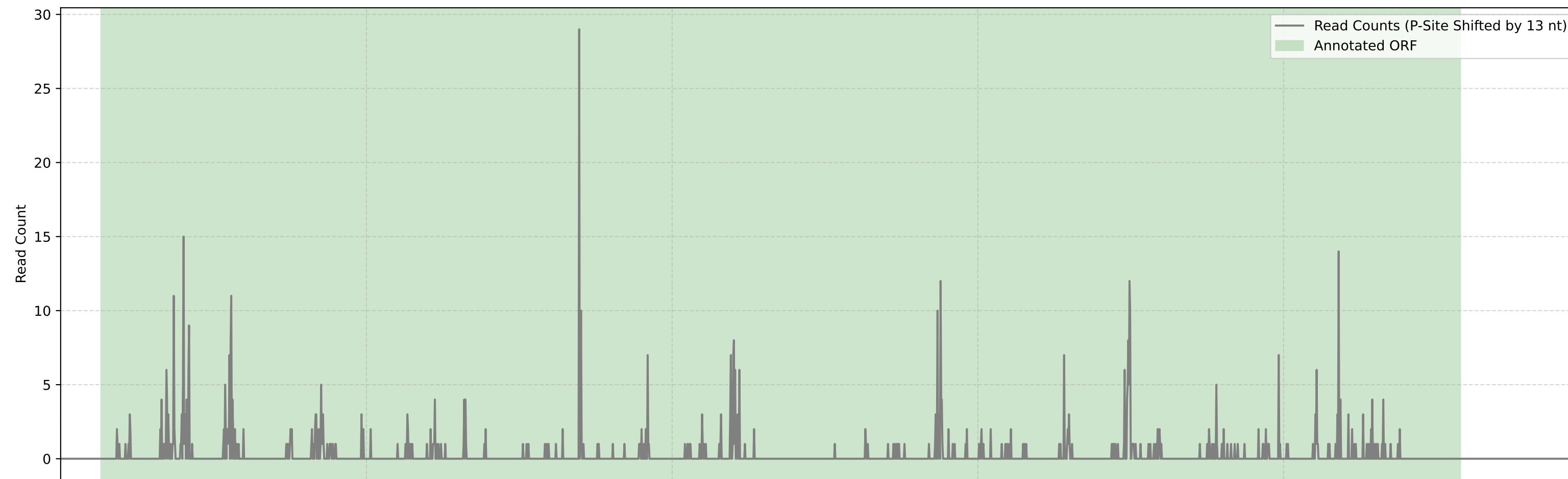


Example: 39th Percentile (by TPM) Transcript (ENST00000265112.8)
Total Reads: 699 | TPM: 798.32

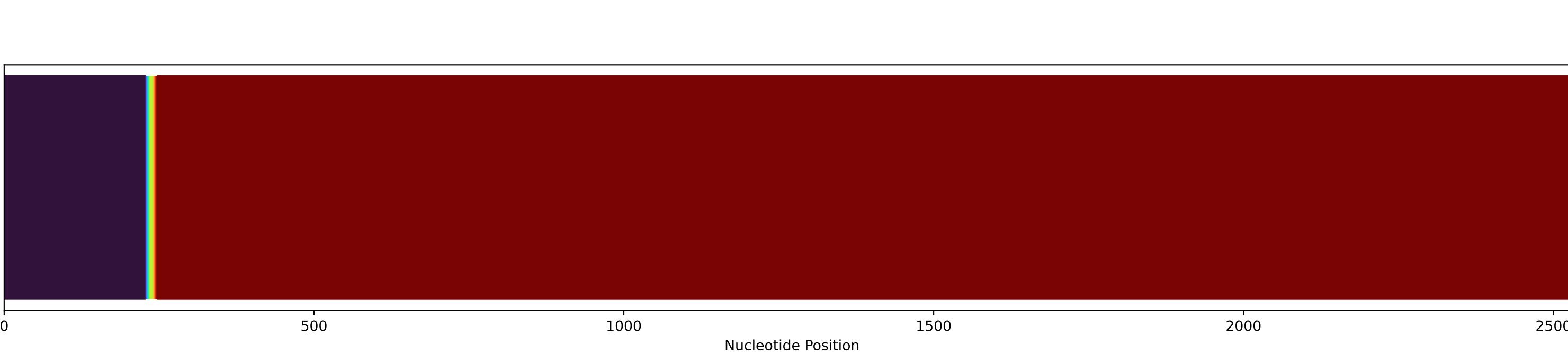
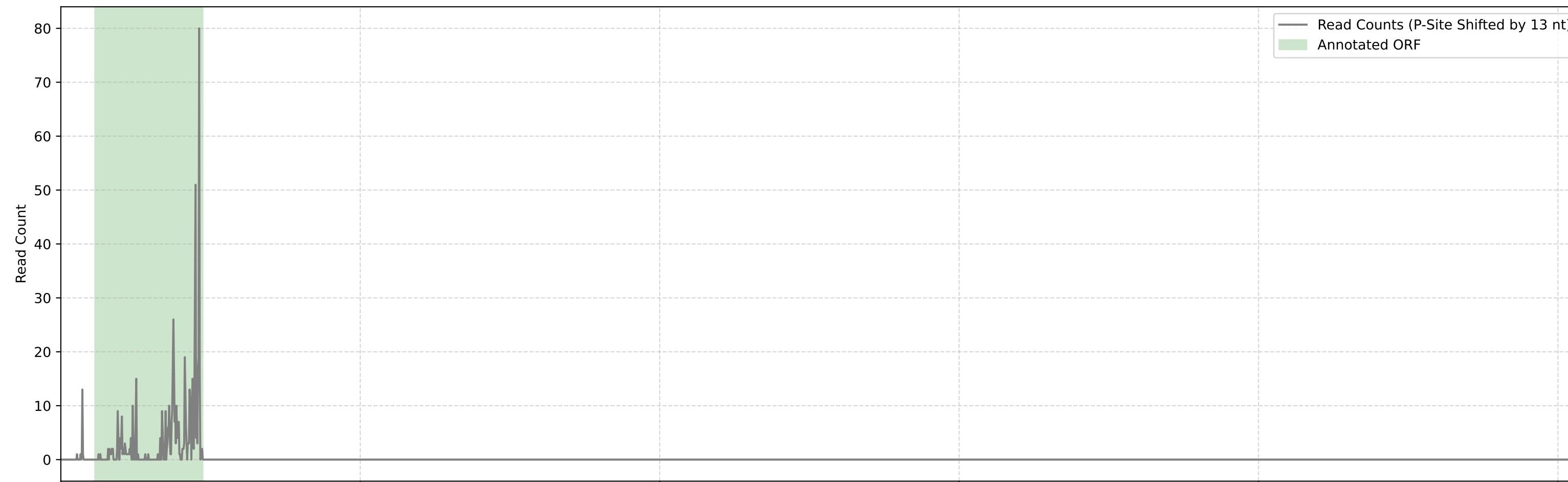


5'UTR
Pre-INIT-1
Pre-INIT-2
Pre-INIT-3
INIT
Post-INIT-1
Post-INIT-2
T1
T2
T3
Pre-TERM-1
Pre-TERM-2
Pre-TERM-3
TERM
Post-TERM-1
Post-TERM-2
3'UTR

Example: 40th Percentile (by TPM) Transcript (ENST00000233084.8)
Total Reads: 665 | TPM: 816.97

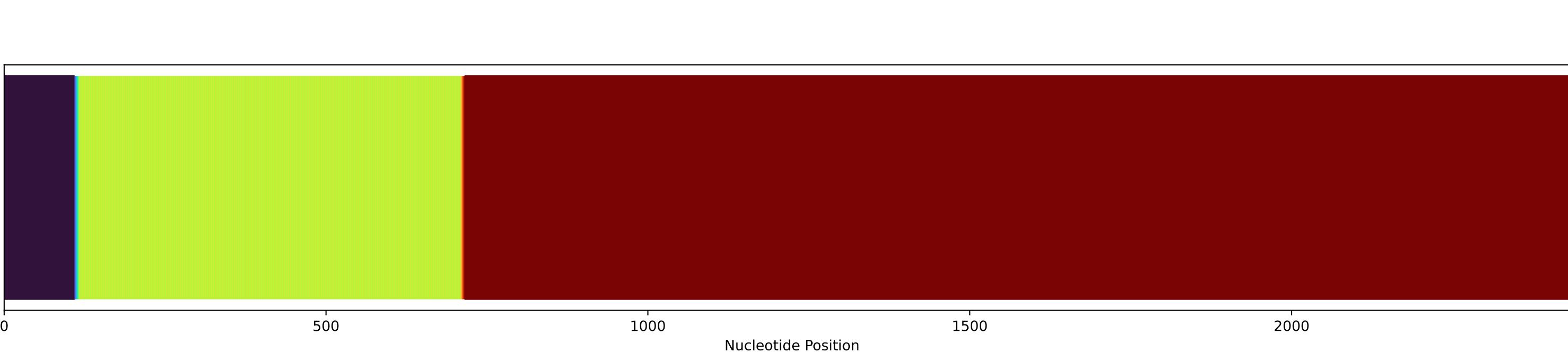
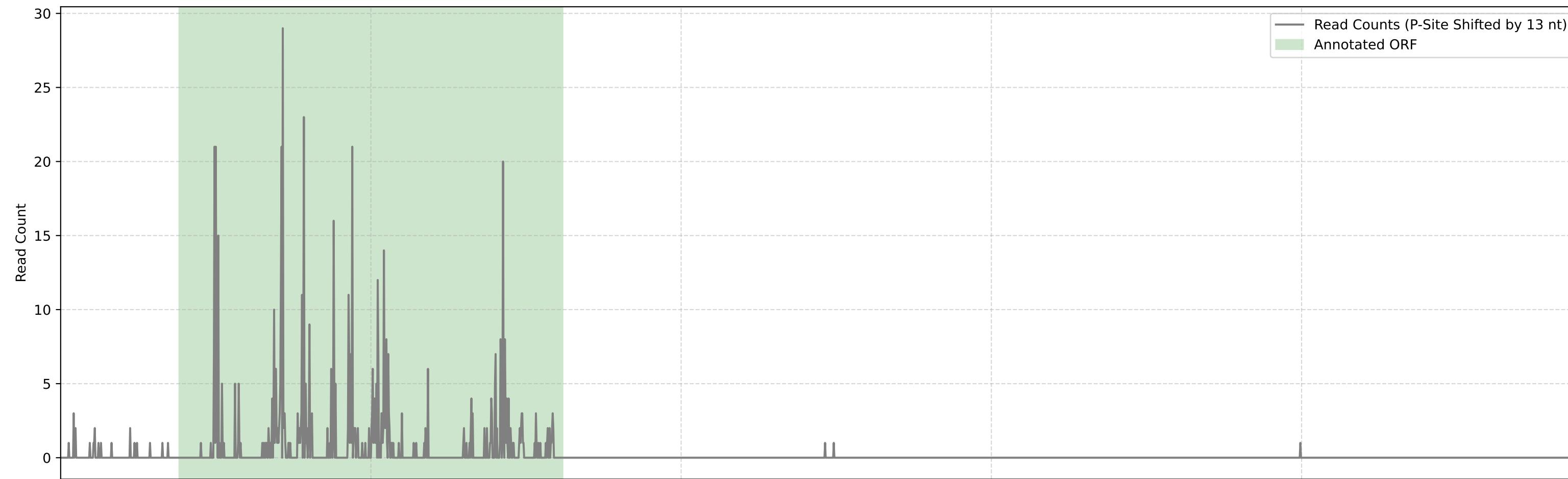


Example: 41th Percentile (by TPM) Transcript (ENST00000249786.9)
Total Reads: 699 | TPM: 838.82



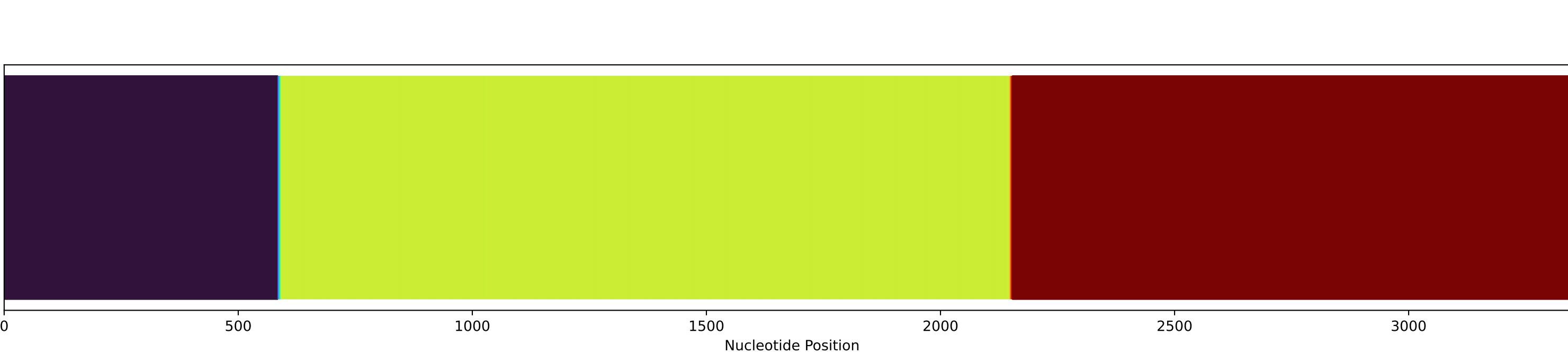
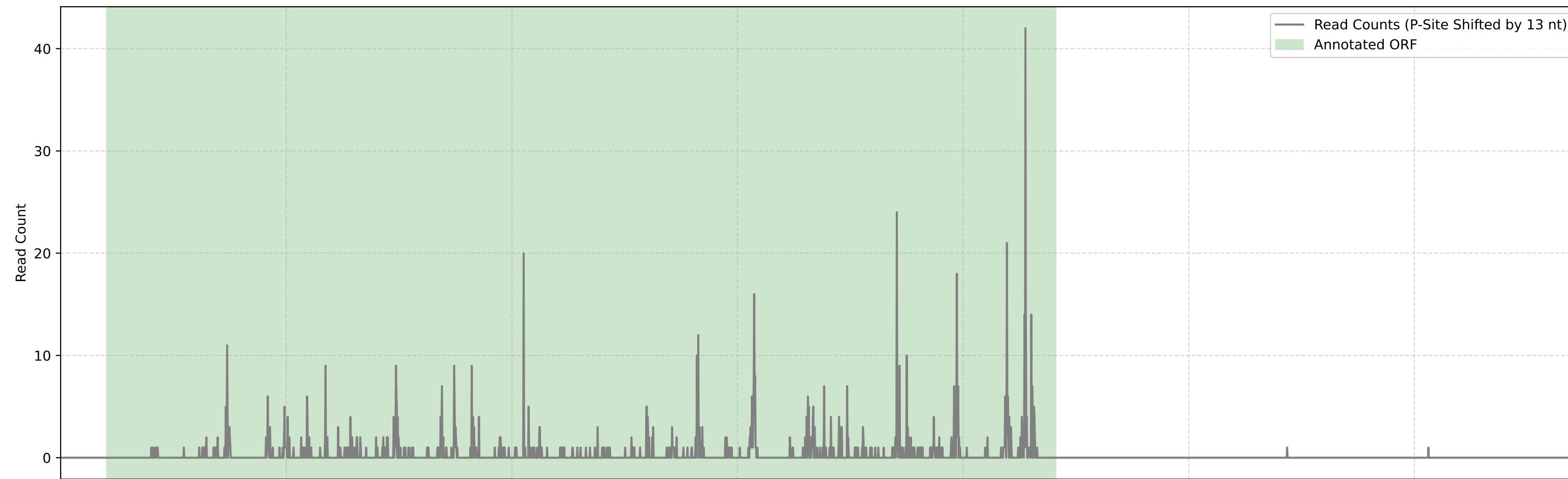
- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

Example: 42th Percentile (by TPM) Transcript (ENST00000409784.8)
Total Reads: 697 | TPM: 868.88

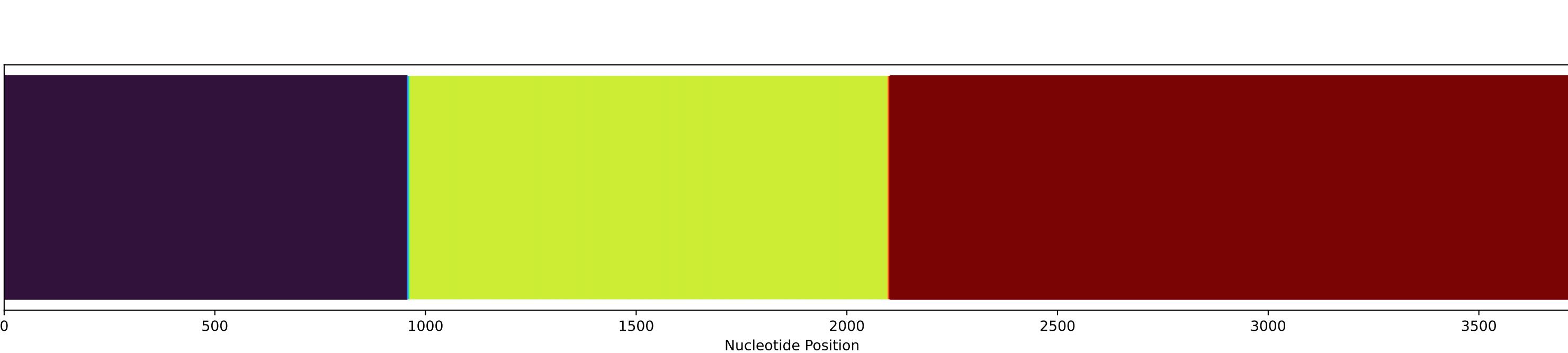
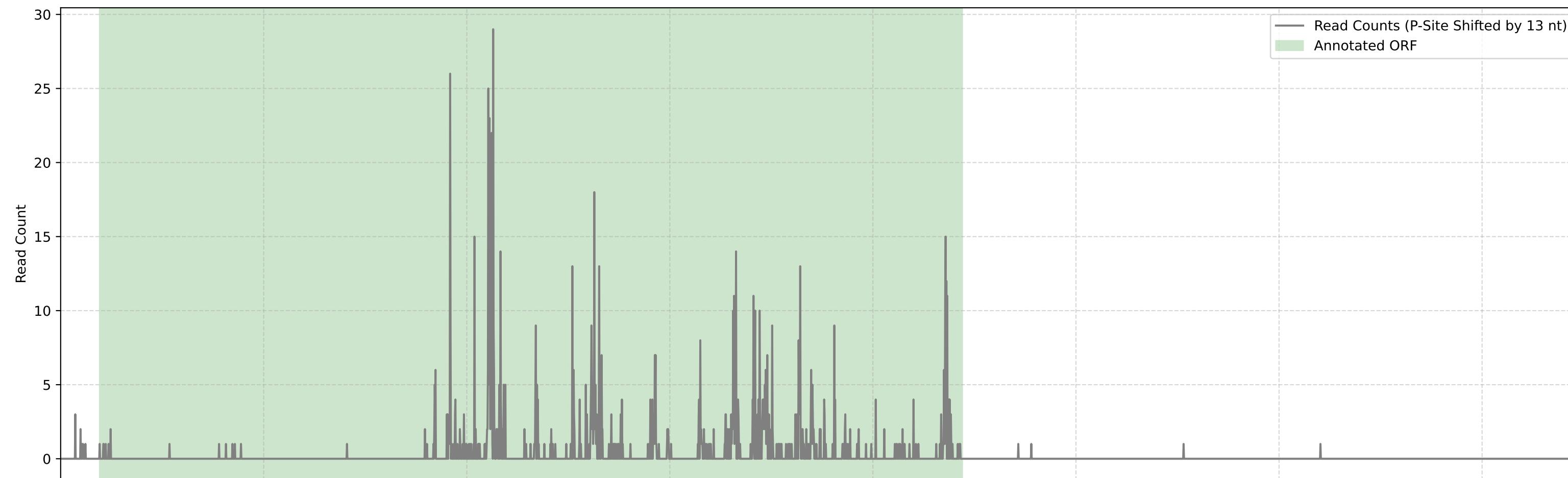


- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

Example: 43th Percentile (by TPM) Transcript (ENST00000295006.6)
Total Reads: 992 | TPM: 899.36

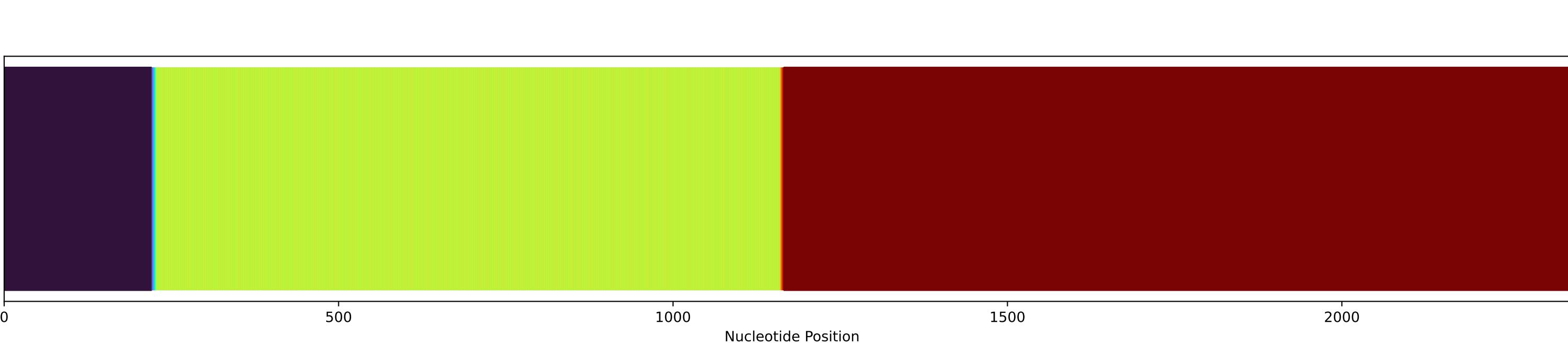
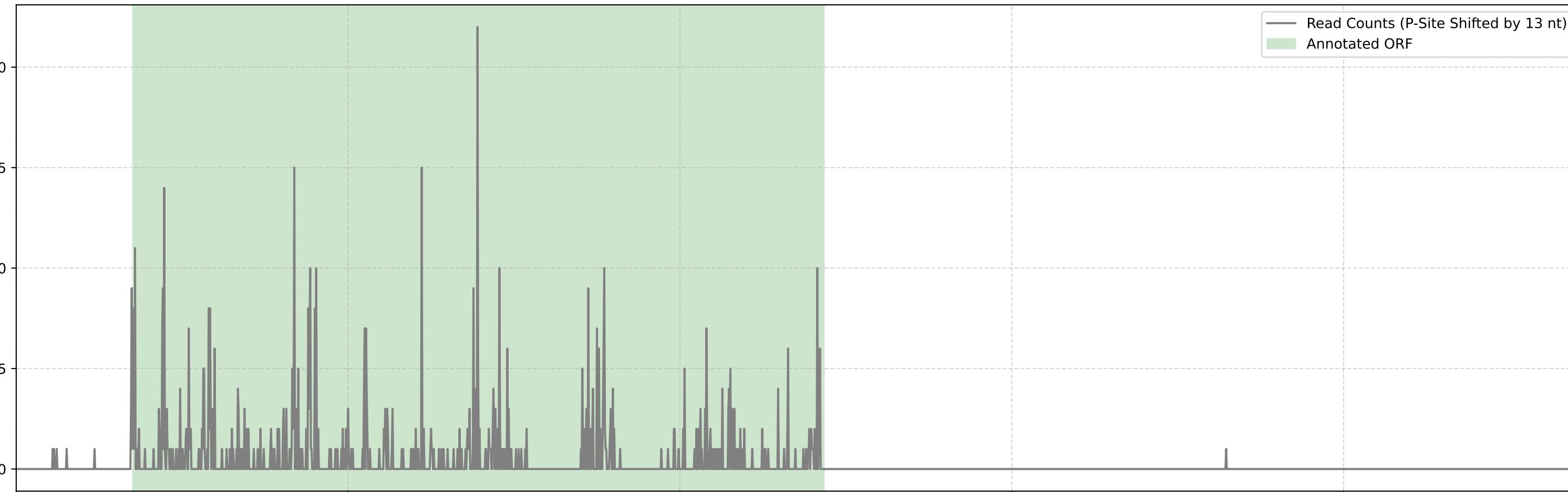


Example: 44th Percentile (by TPM) Transcript (ENST00000357214.6)
Total Reads: 1,138 | TPM: 928.55



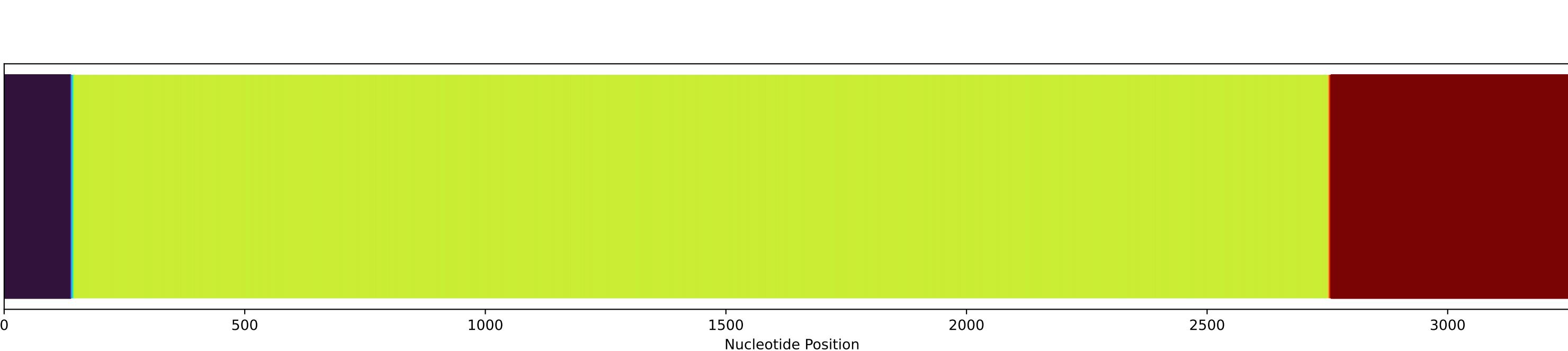
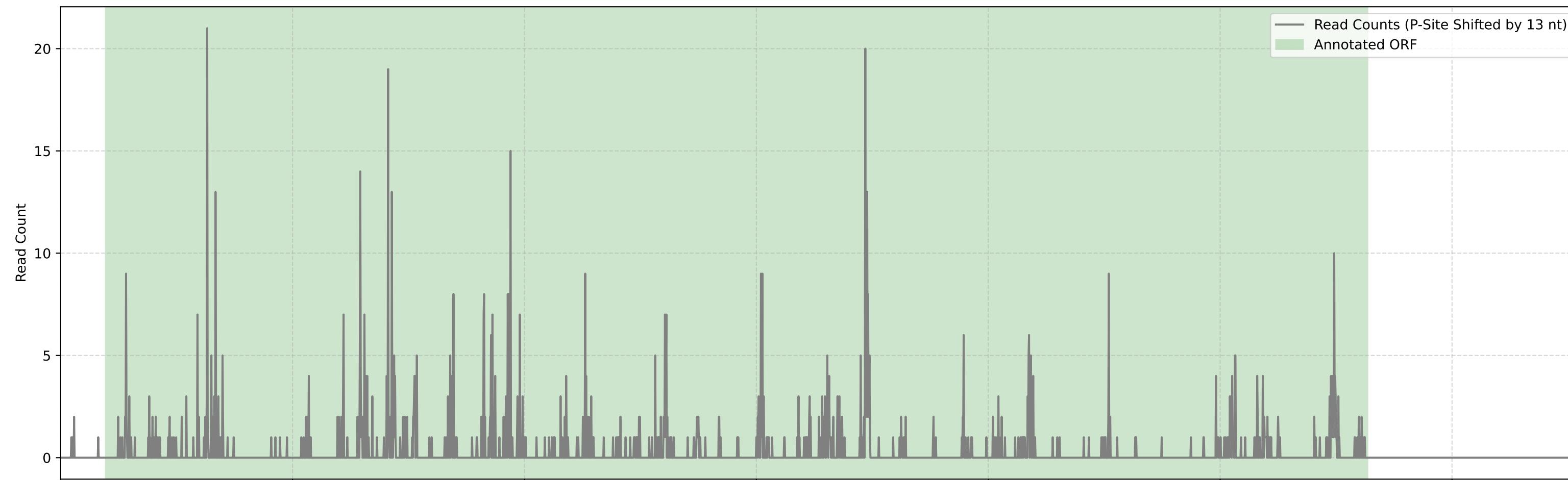
- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

Example: 45th Percentile (by TPM) Transcript (ENST00000265866.12)
Total Reads: 732 | TPM: 948.14

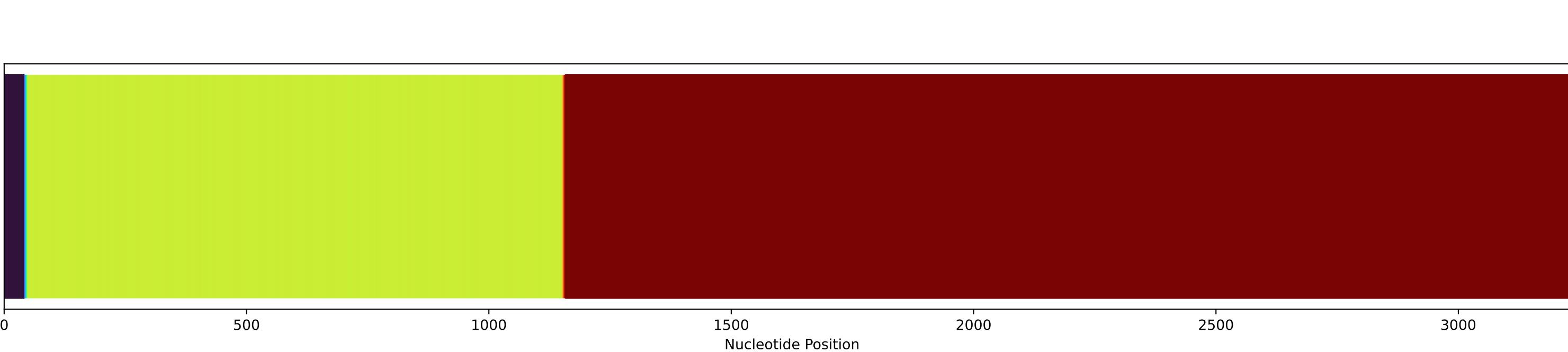
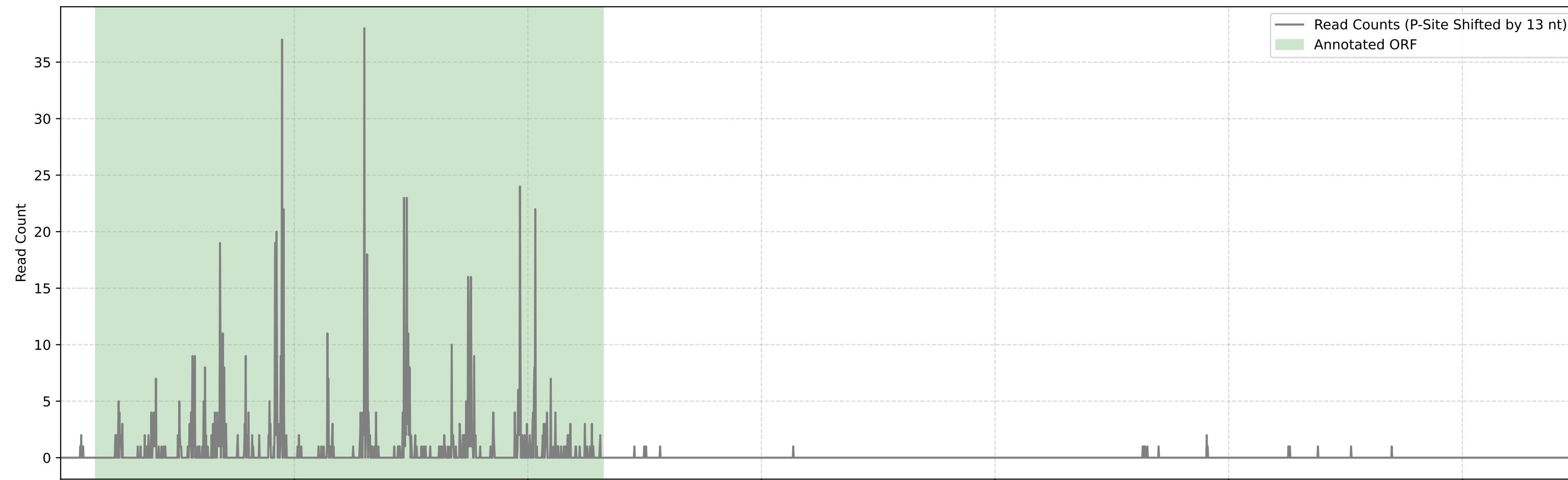


- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

Example: 46th Percentile (by TPM) Transcript (ENST00000333188.10)
Total Reads: 1,058 | TPM: 985.85

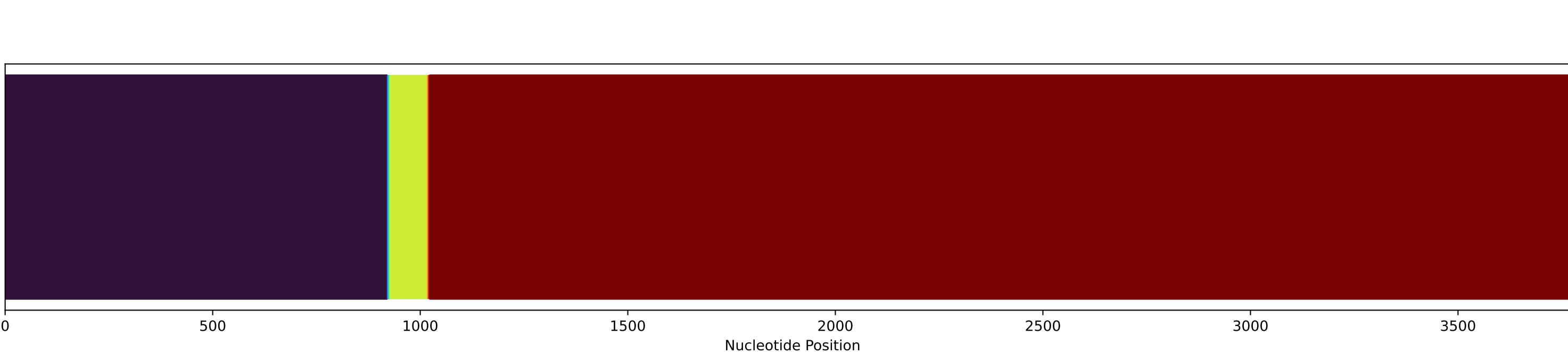
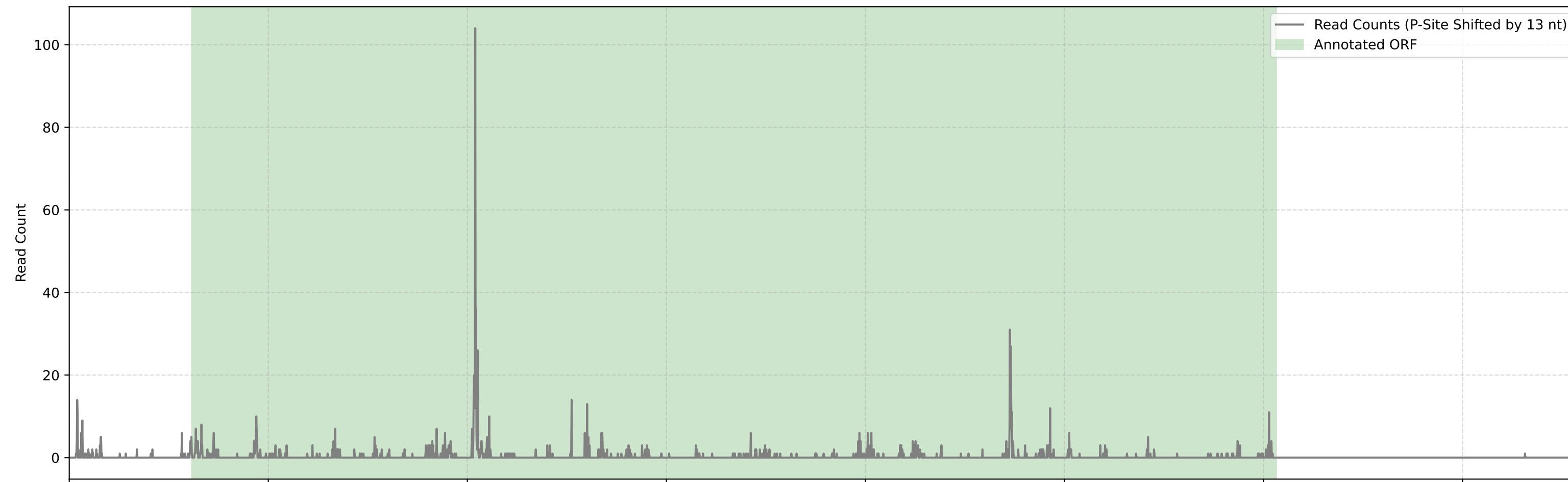


Example: 47th Percentile (by TPM) Transcript (ENST00000391971.7)
Total Reads: 1,075 | TPM: 1009.09

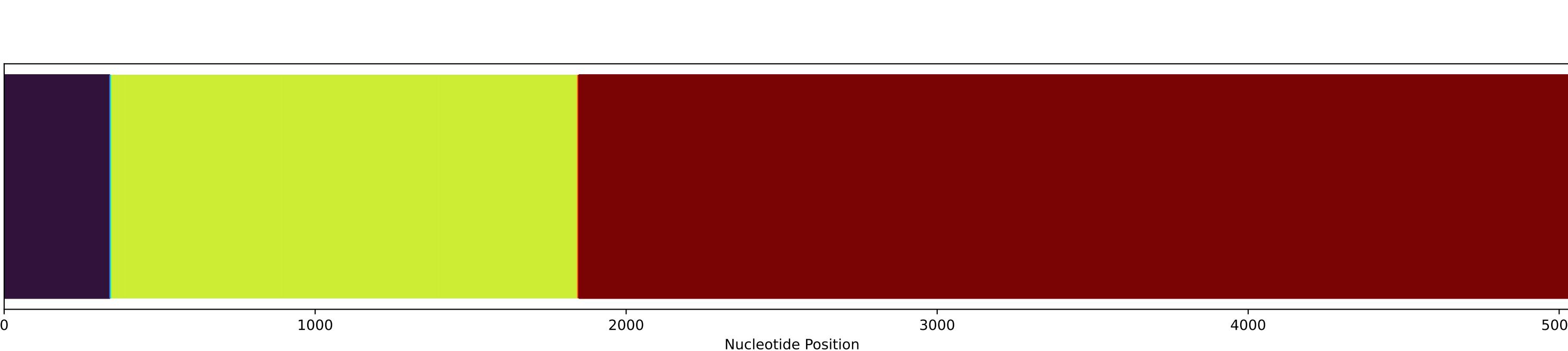
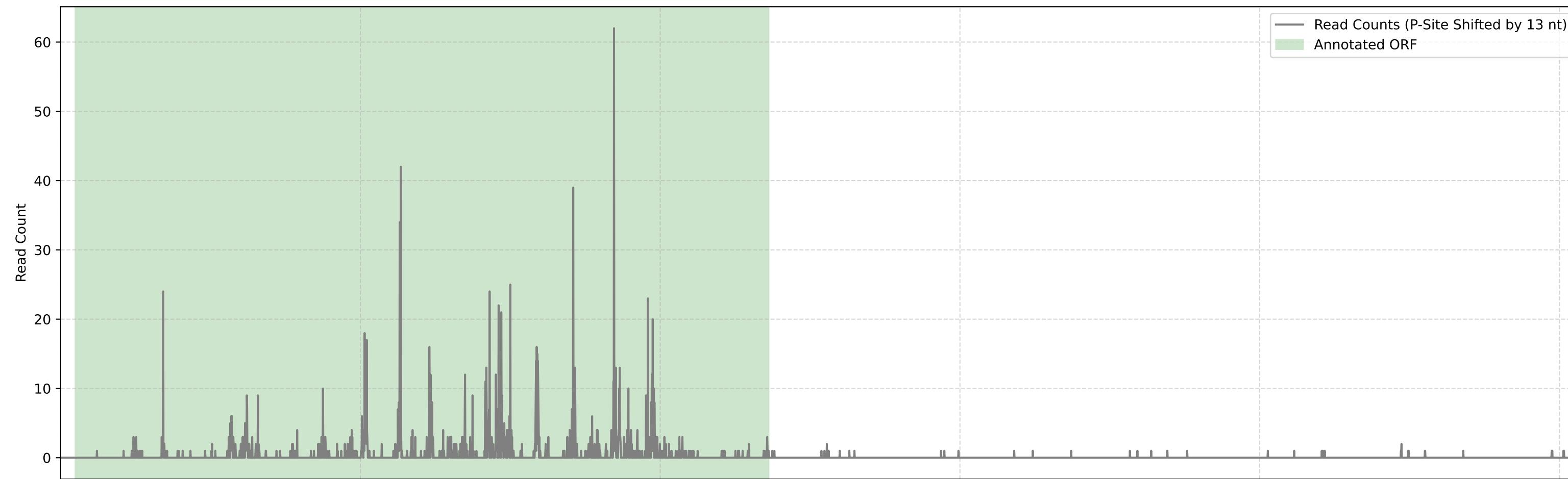


- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

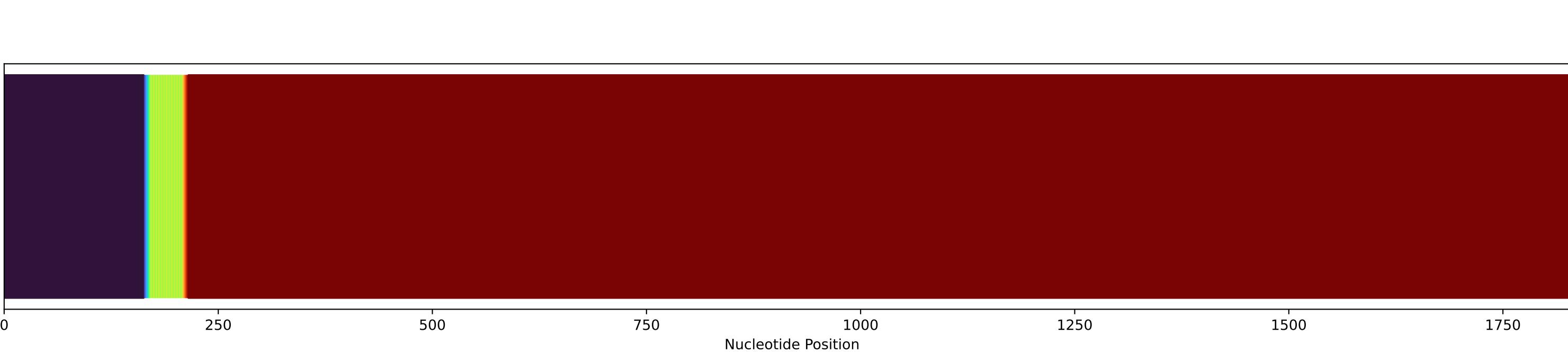
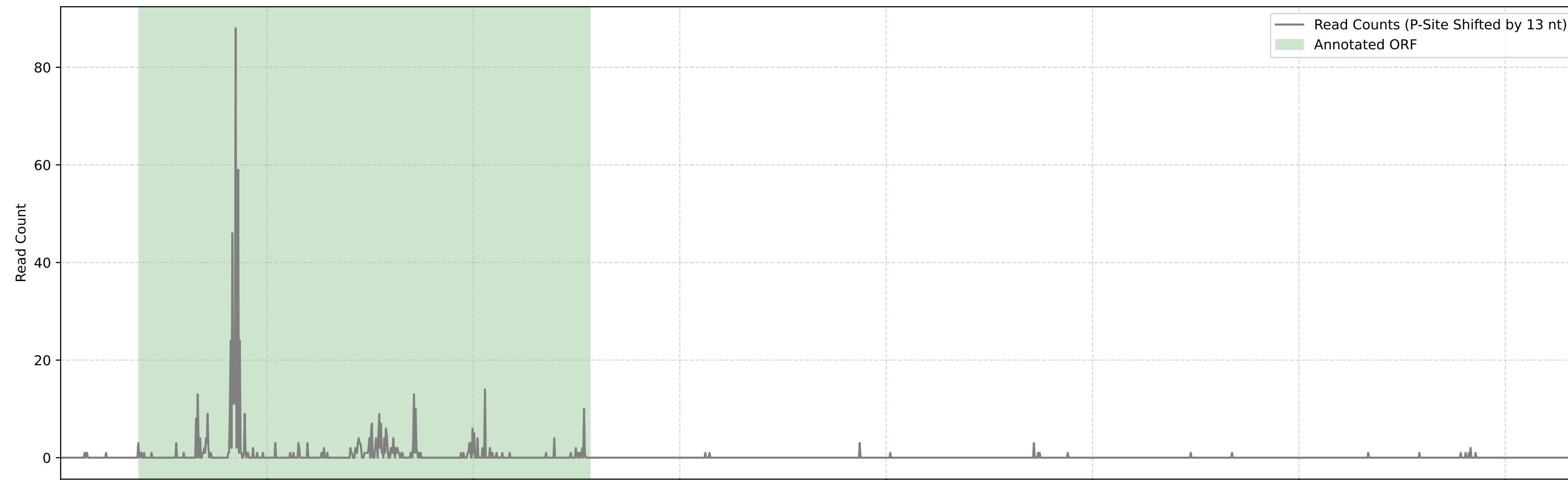
Example: 48th Percentile (by TPM) Transcript (ENST00000339995.11)
Total Reads: 1,292 | TPM: 1039.21



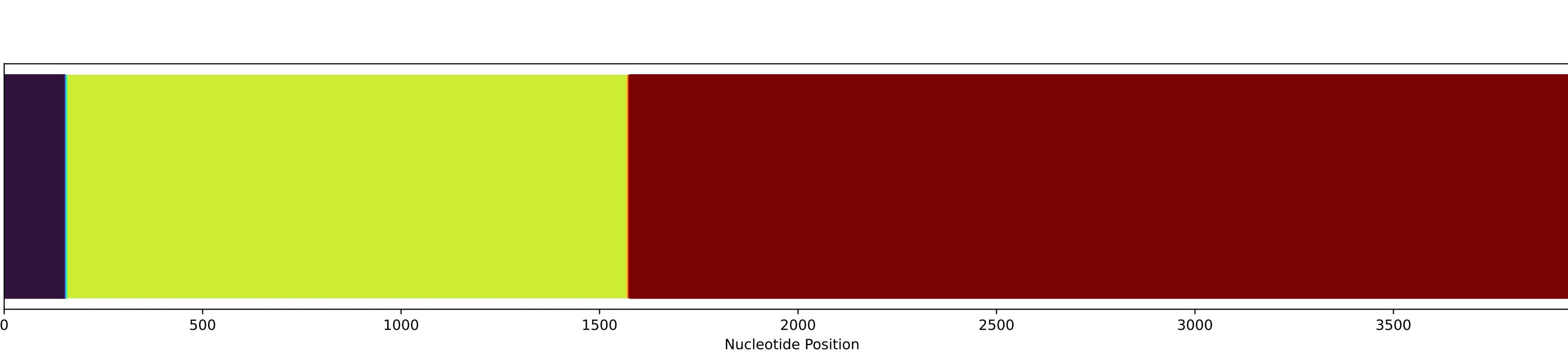
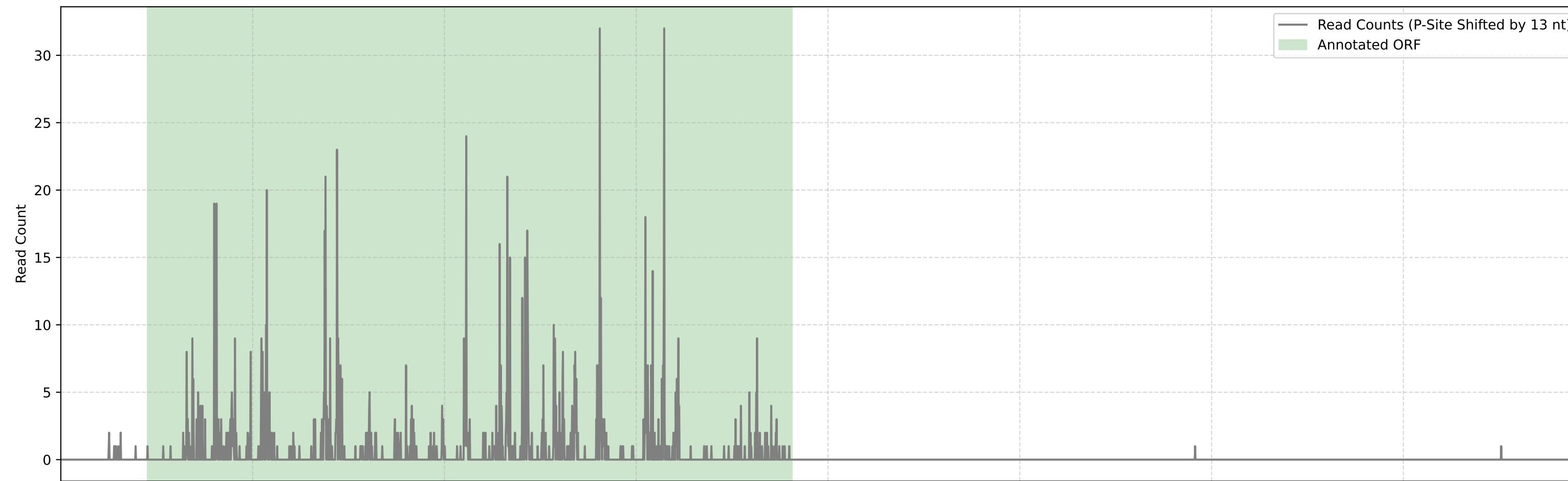
Example: 49th Percentile (by TPM) Transcript (ENST00000374893.11)
Total Reads: 1,769 | TPM: 1065.40



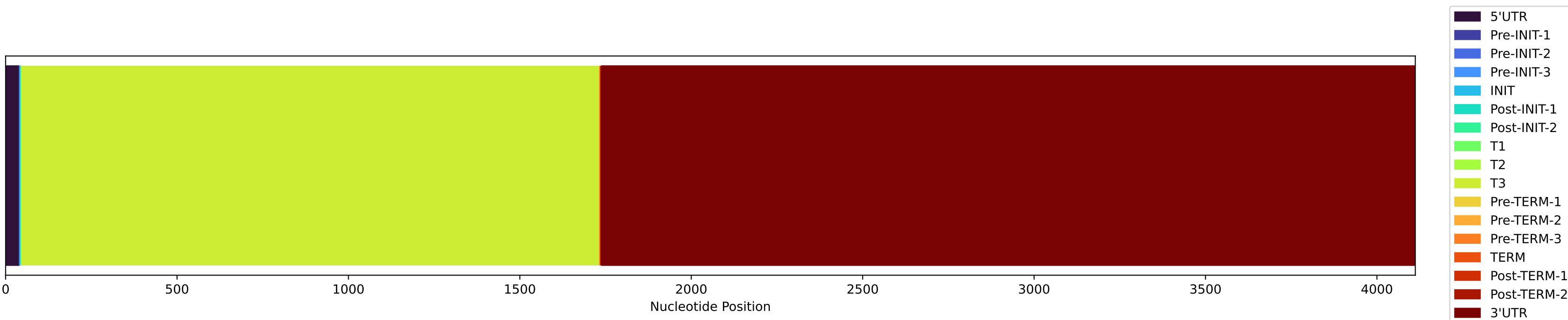
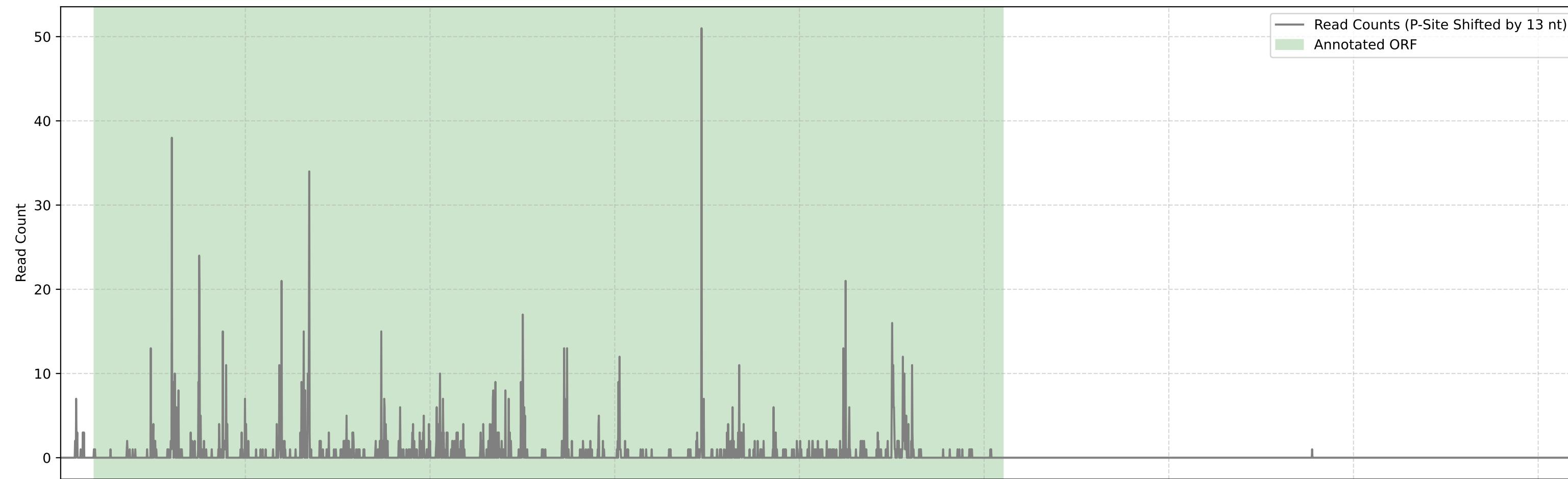
Example: 50th Percentile (by TPM) Transcript (ENST00000272102.10)
Total Reads: 650 | TPM: 1078.03



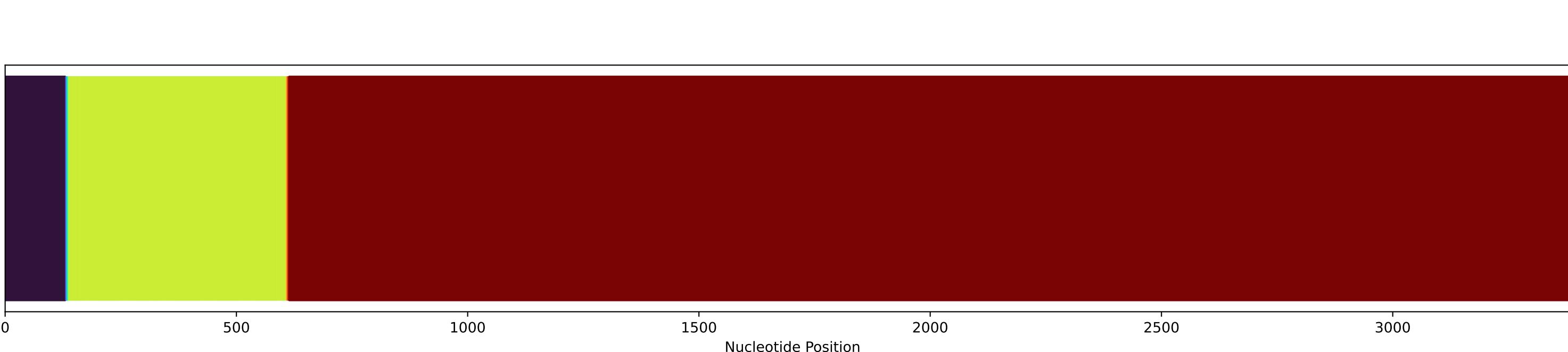
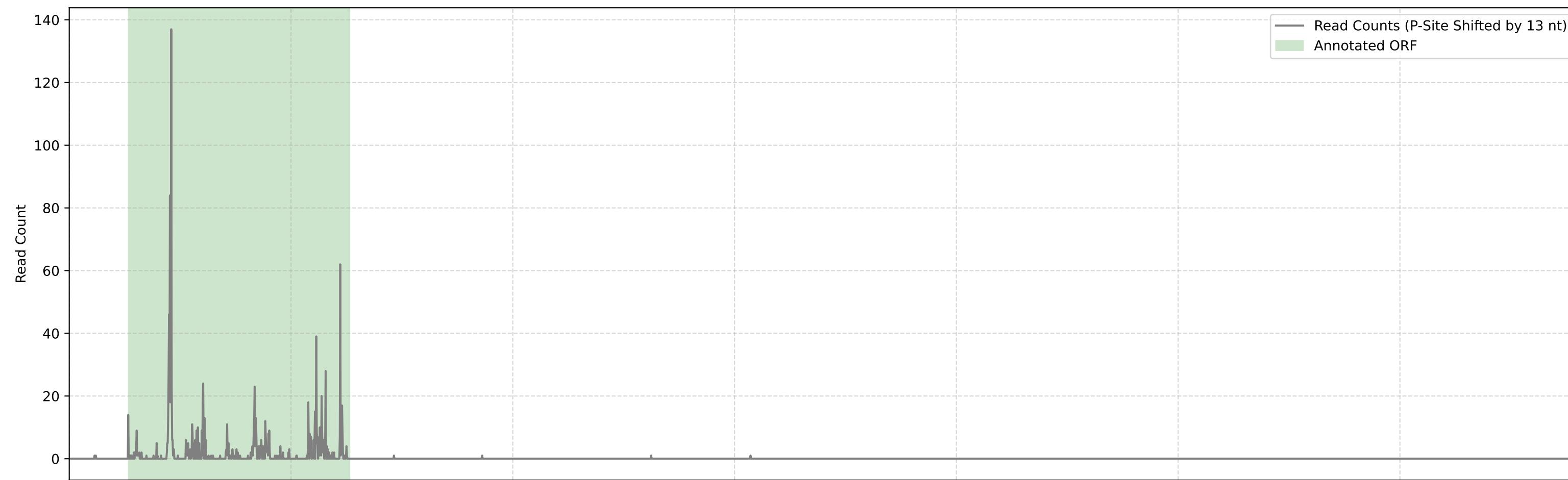
Example: 51th Percentile (by TPM) Transcript (ENST00000269195.6)
Total Reads: 1,421 | TPM: 1092.30



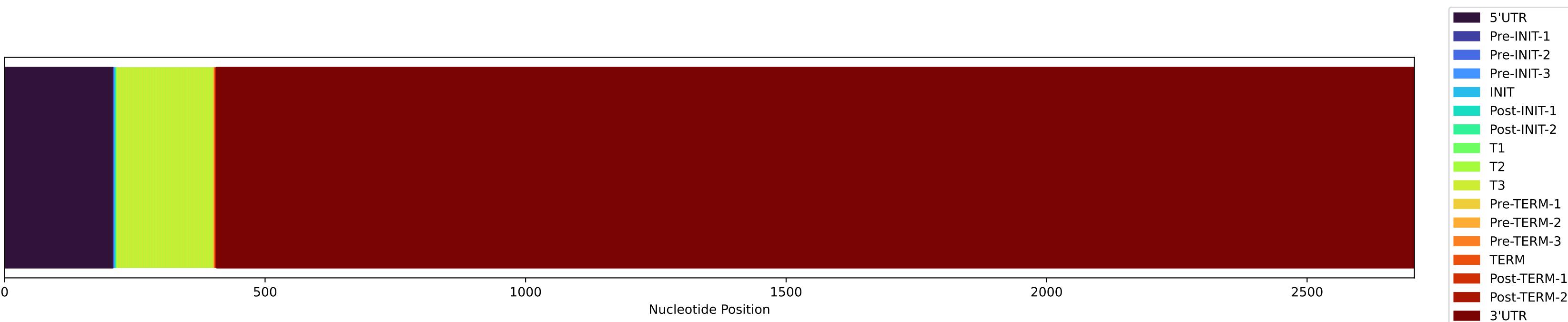
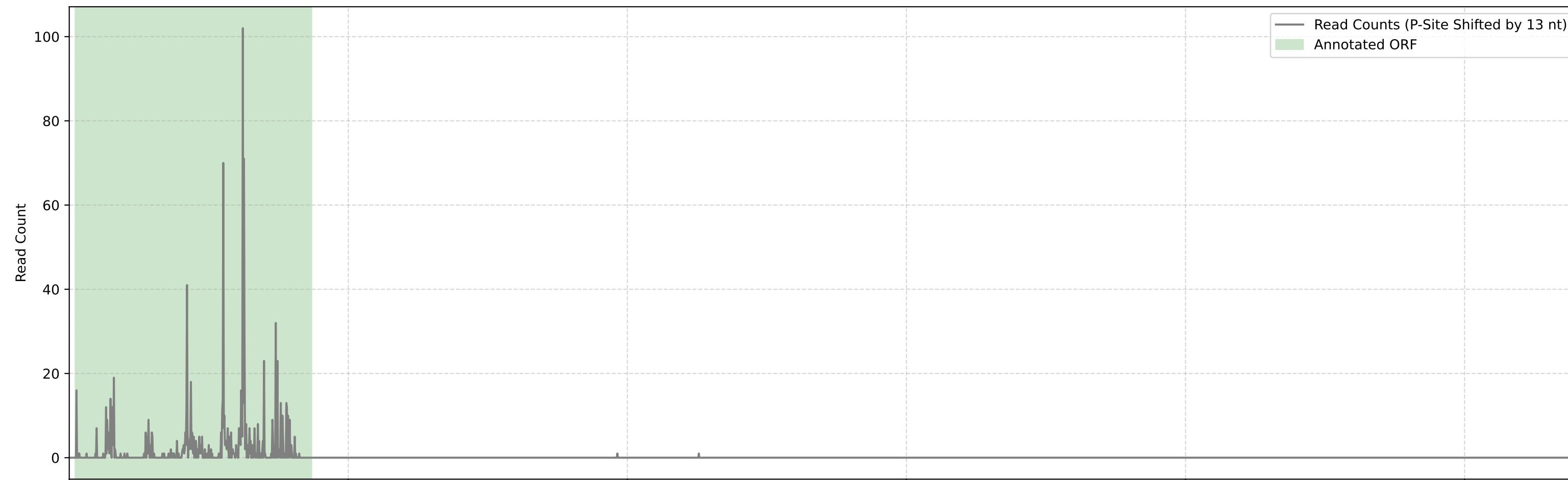
Example: 52th Percentile (by TPM) Transcript (ENST00000487273.7)
Total Reads: 1,494 | TPM: 1108.75



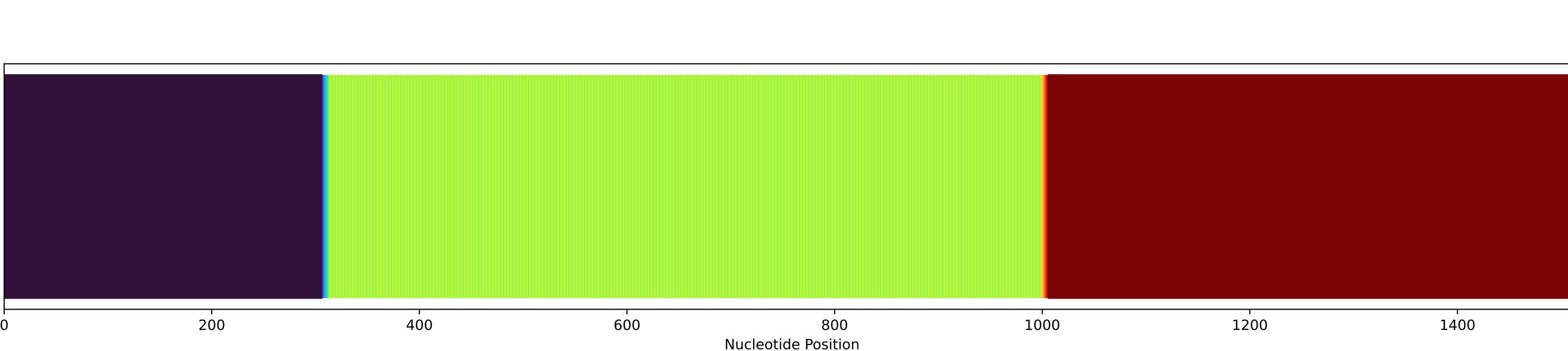
Example: 53th Percentile (by TPM) Transcript (ENST00000246069.12)
Total Reads: 1,291 | TPM: 1157.03



Example: 54th Percentile (by TPM) Transcript (ENST00000479035.7)
Total Reads: 1,051 | TPM: 1185.26

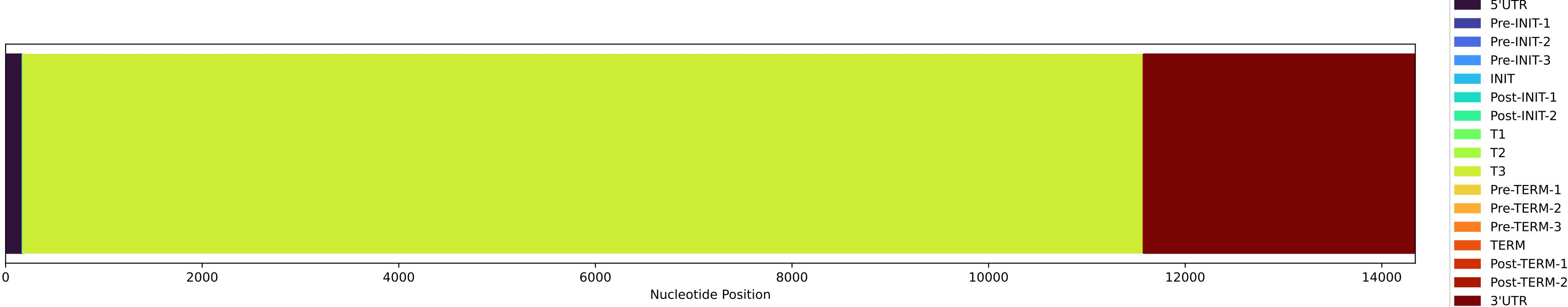
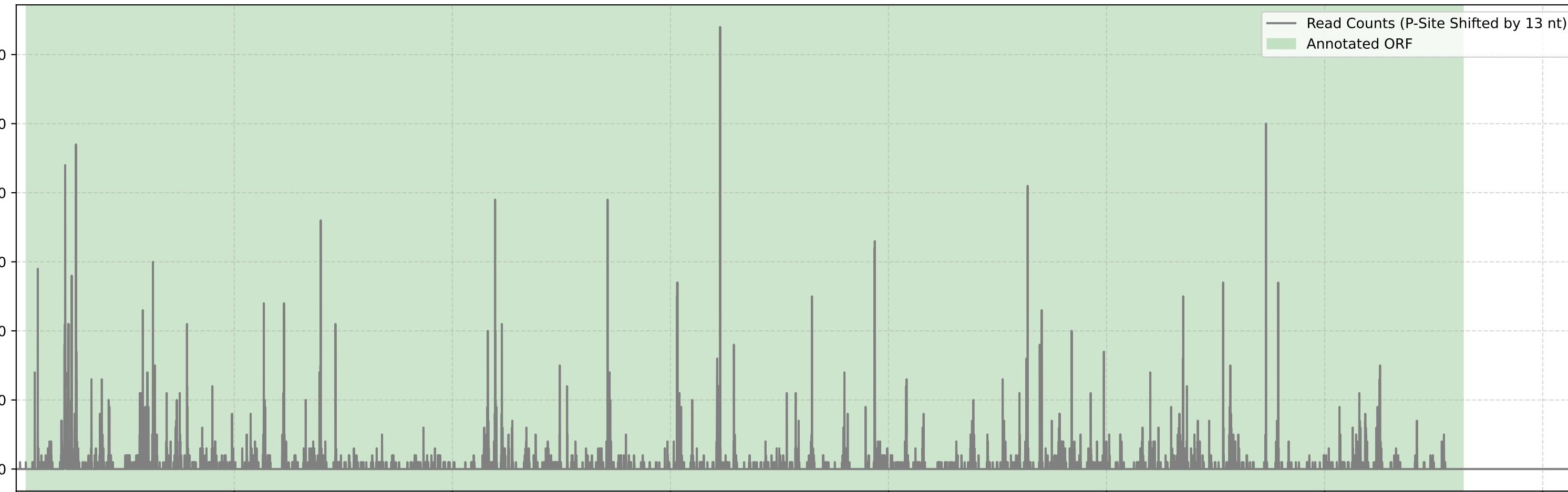


Example: 55th Percentile (by TPM) Transcript (ENST00000215071.9)
Total Reads: 613 | TPM: 1232.33

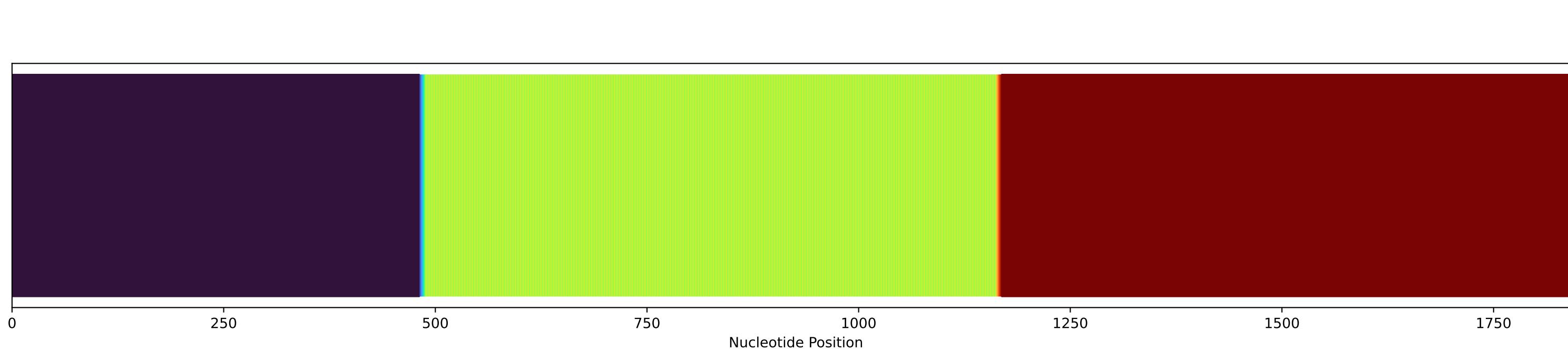
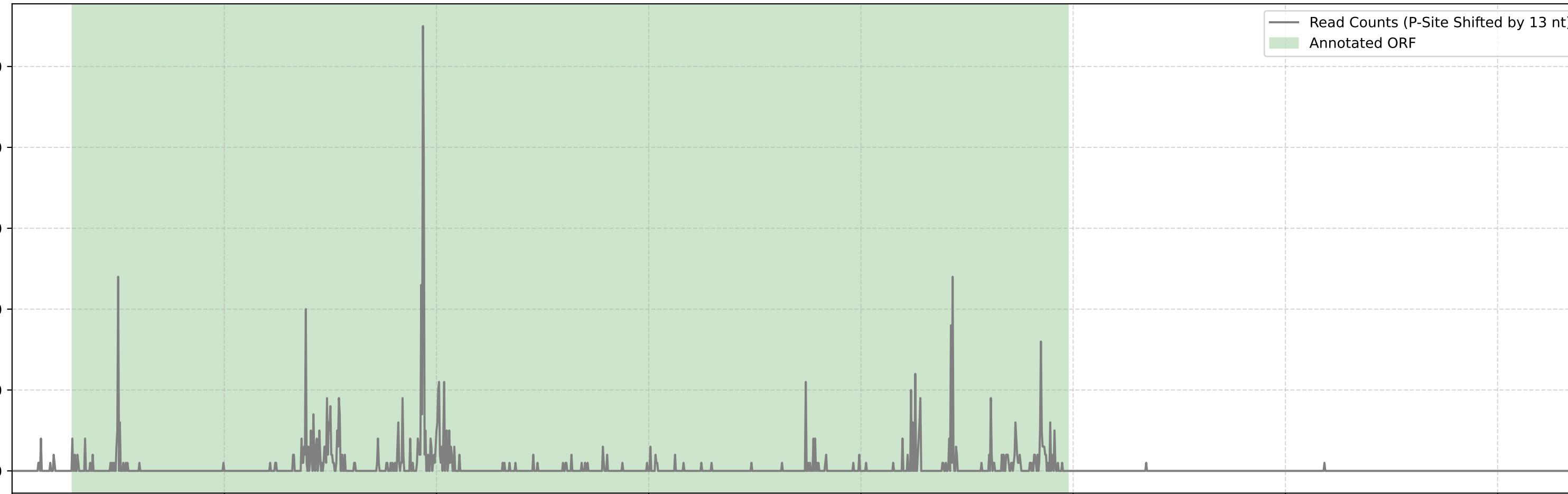


- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

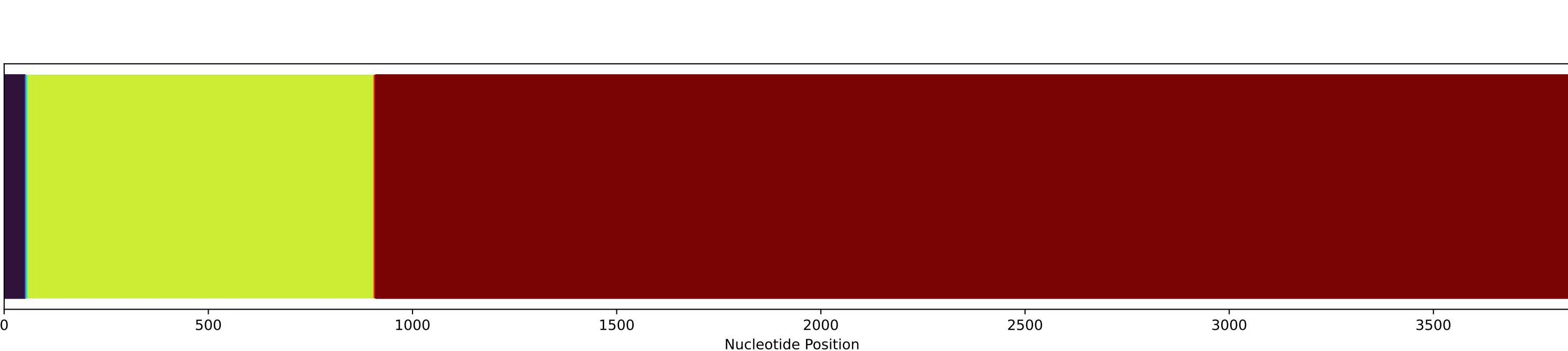
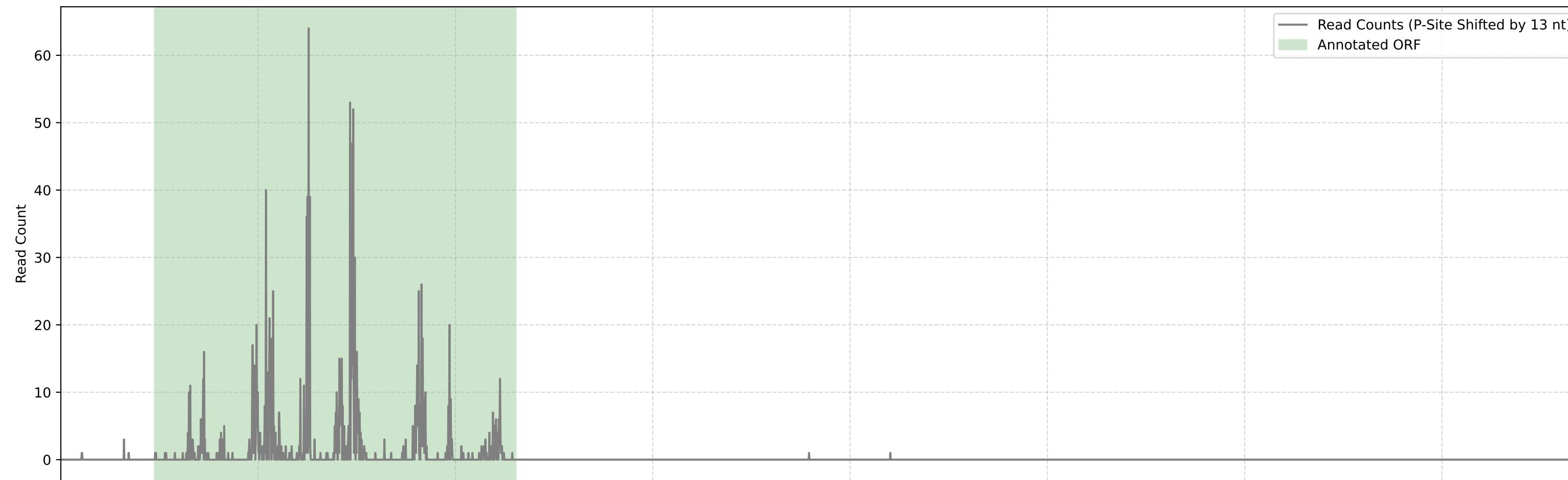
Example: 56th Percentile (by TPM) Transcript (ENST00000374695.8)
Total Reads: 5,901 | TPM: 1255.69



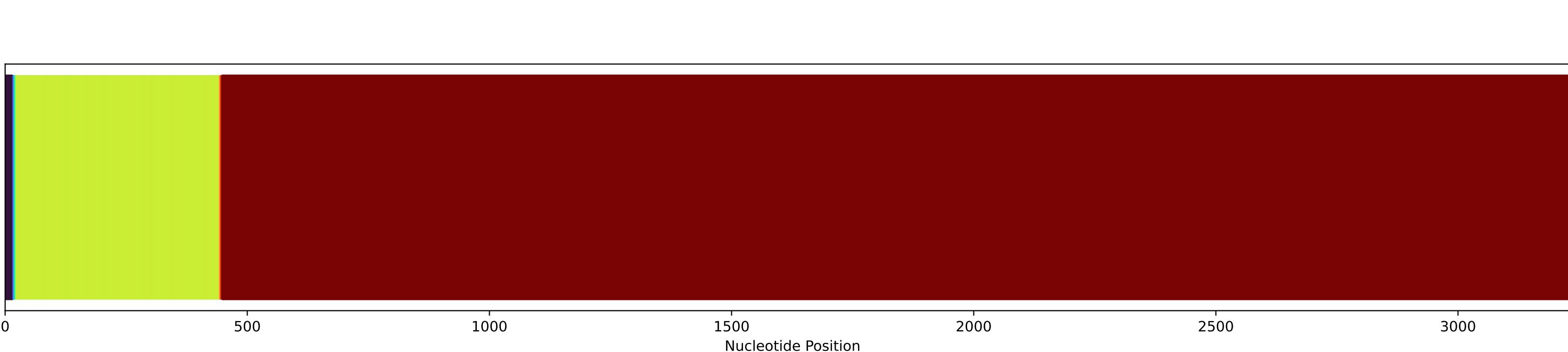
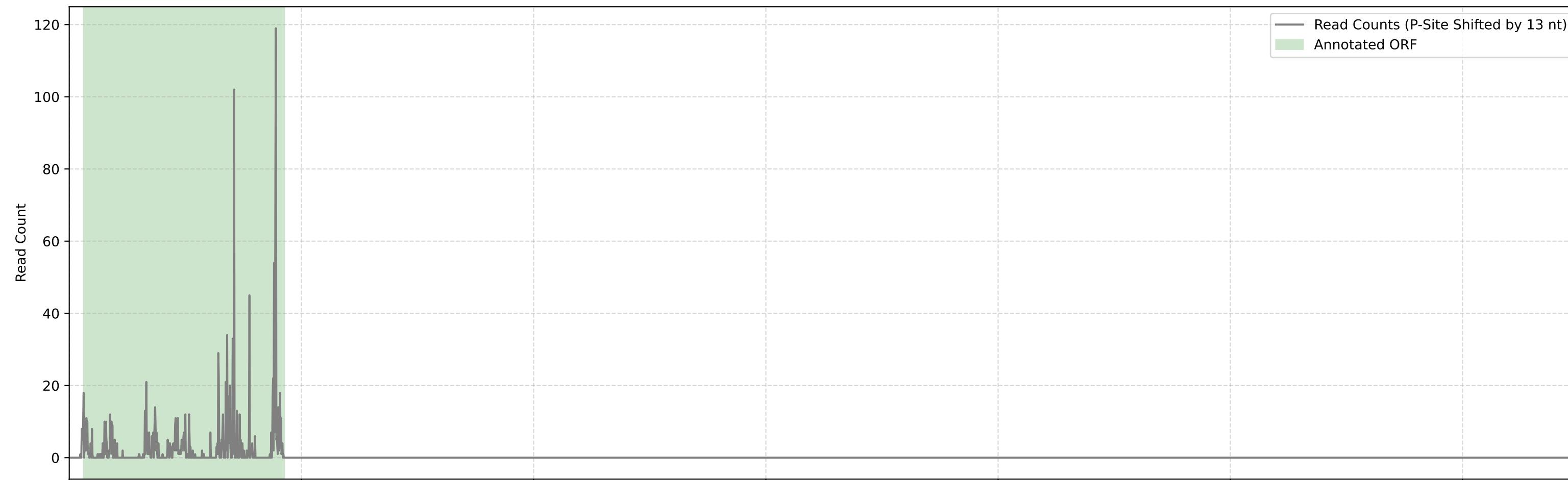
Example: 57th Percentile (by TPM) Transcript (ENST00000361891.9)
Total Reads: 799 | TPM: 1316.57



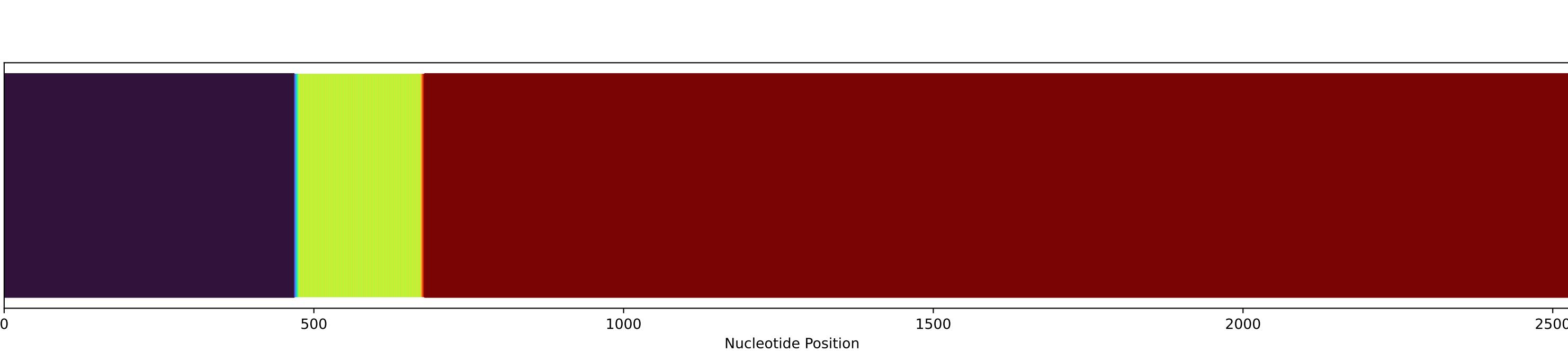
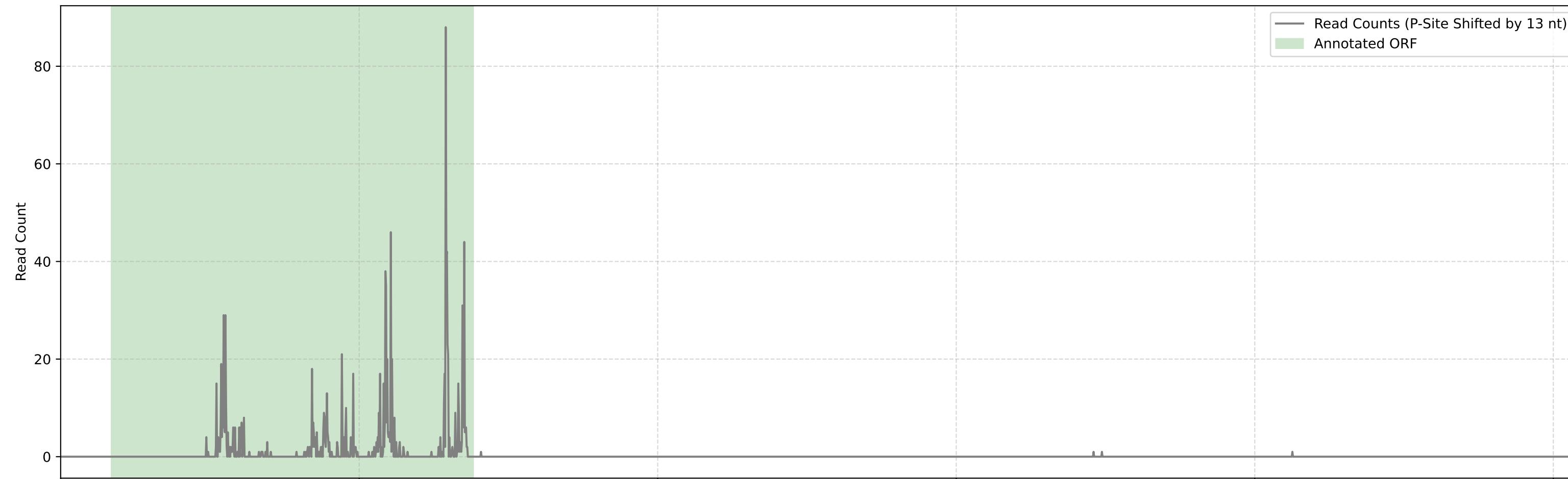
Example: 58th Percentile (by TPM) Transcript (ENST00000233156.9)
Total Reads: 1,715 | TPM: 1356.21



Example: 59th Percentile (by TPM) Transcript (ENST00000296674.13)
Total Reads: 1,476 | TPM: 1385.07

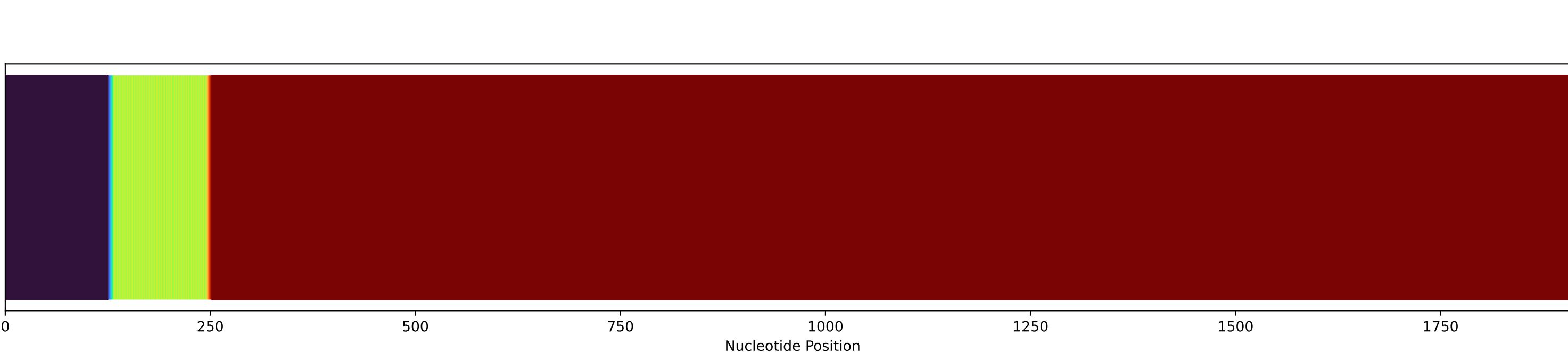
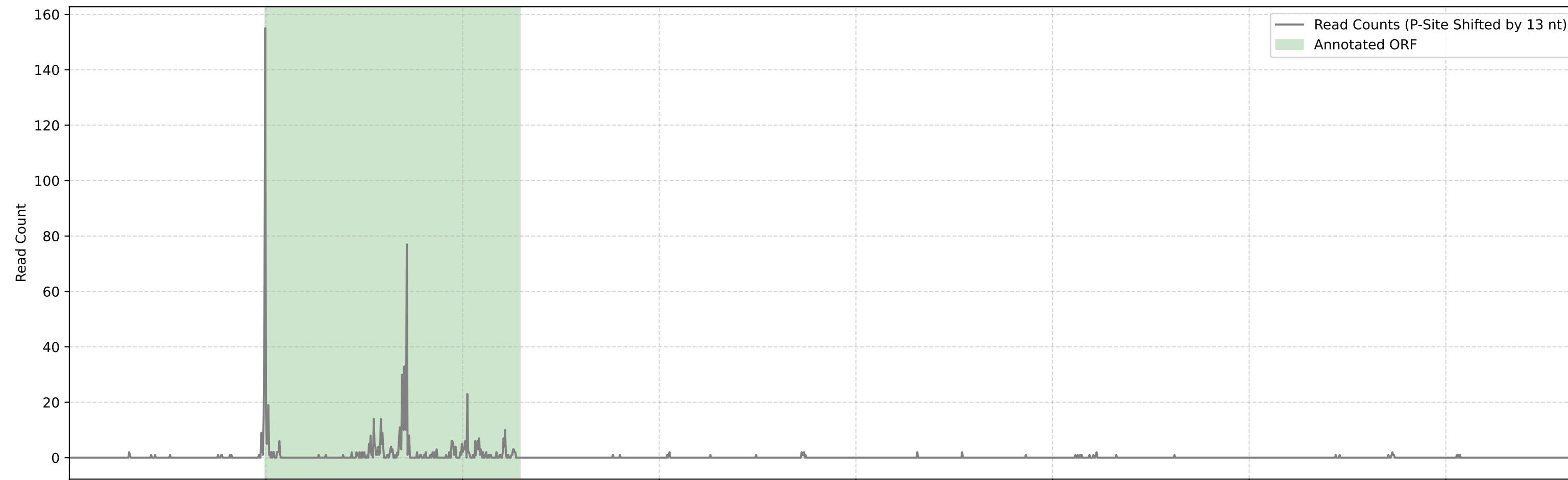


Example: 60th Percentile (by TPM) Transcript (ENST00000262225.8)
Total Reads: 1,173 | TPM: 1407.08



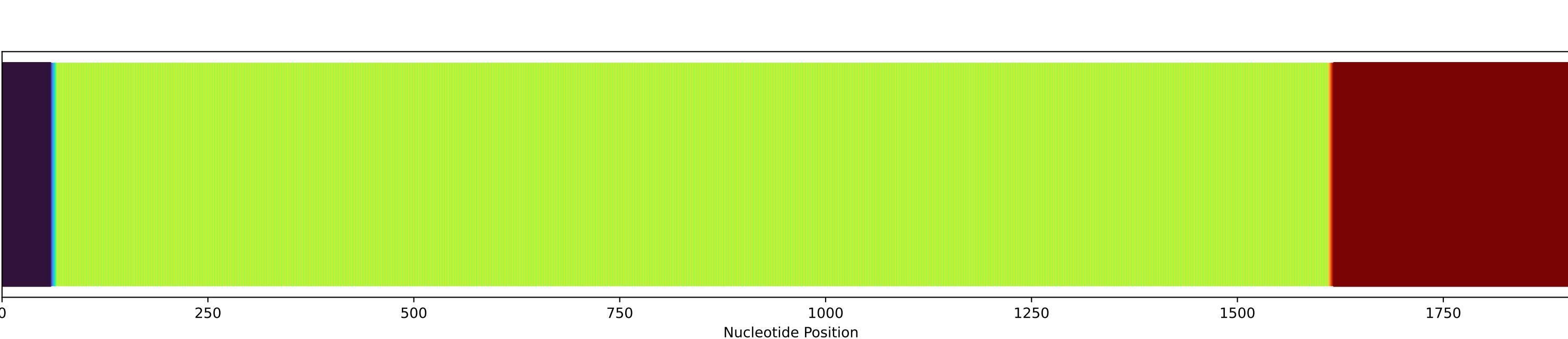
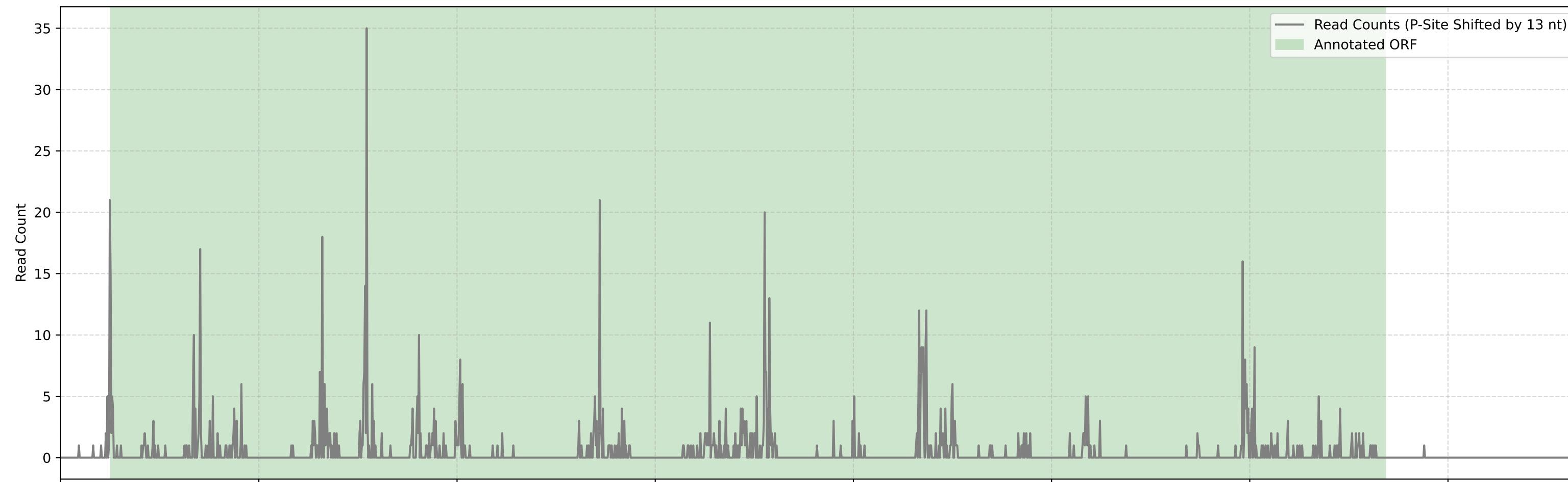
5'UTR
Pre-INIT-1
Pre-INIT-2
Pre-INIT-3
INIT
Post-INIT-1
Post-INIT-2
T1
T2
T3
Pre-TERM-1
Pre-TERM-2
Pre-TERM-3
TERM
Post-TERM-1
Post-TERM-2
3'UTR

Example: 61th Percentile (by TPM) Transcript (ENST00000311487.9)
Total Reads: 897 | TPM: 1425.70



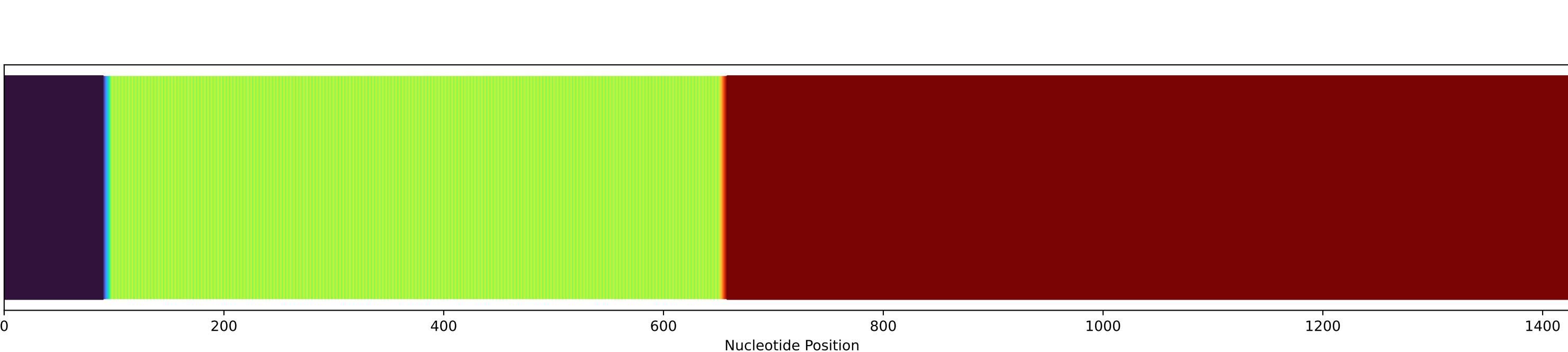
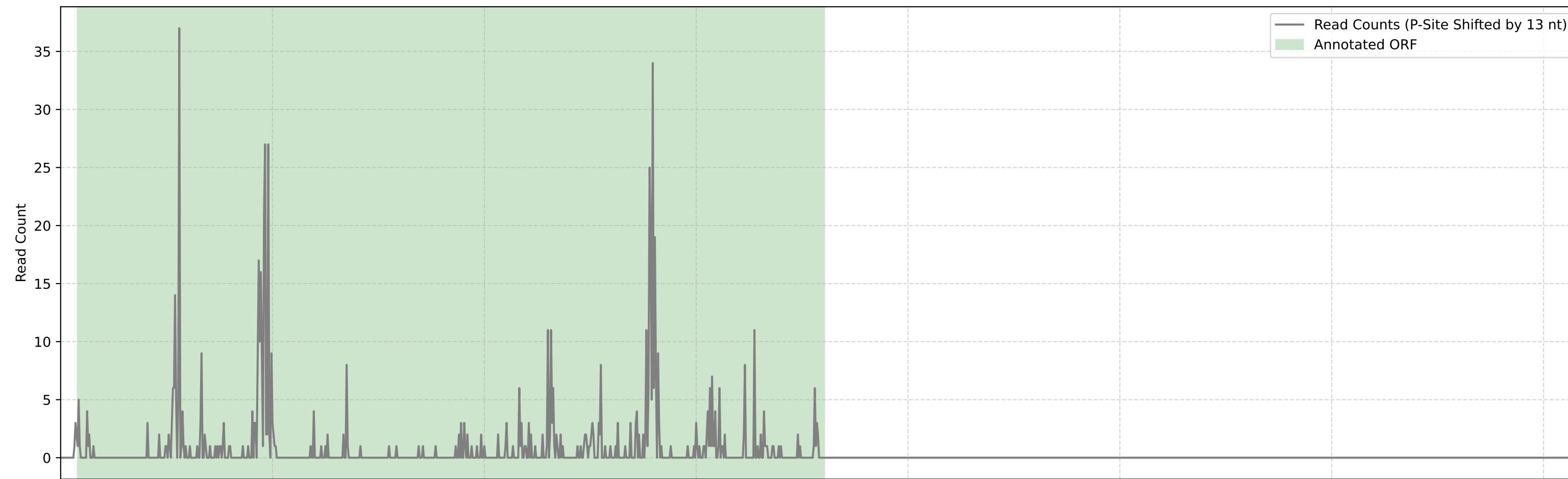
- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

Example: 62th Percentile (by TPM) Transcript (ENST00000299300.11)
Total Reads: 939 | TPM: 1495.57



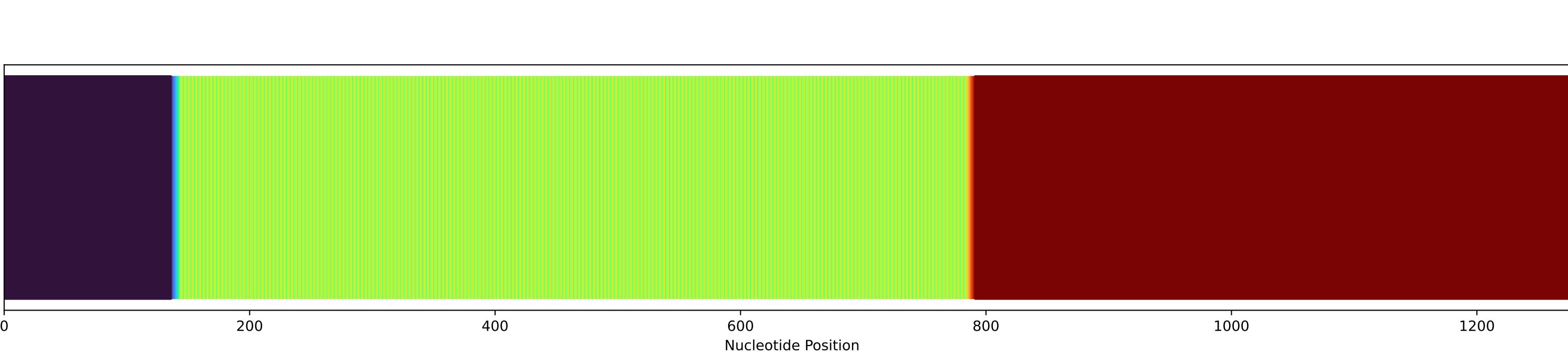
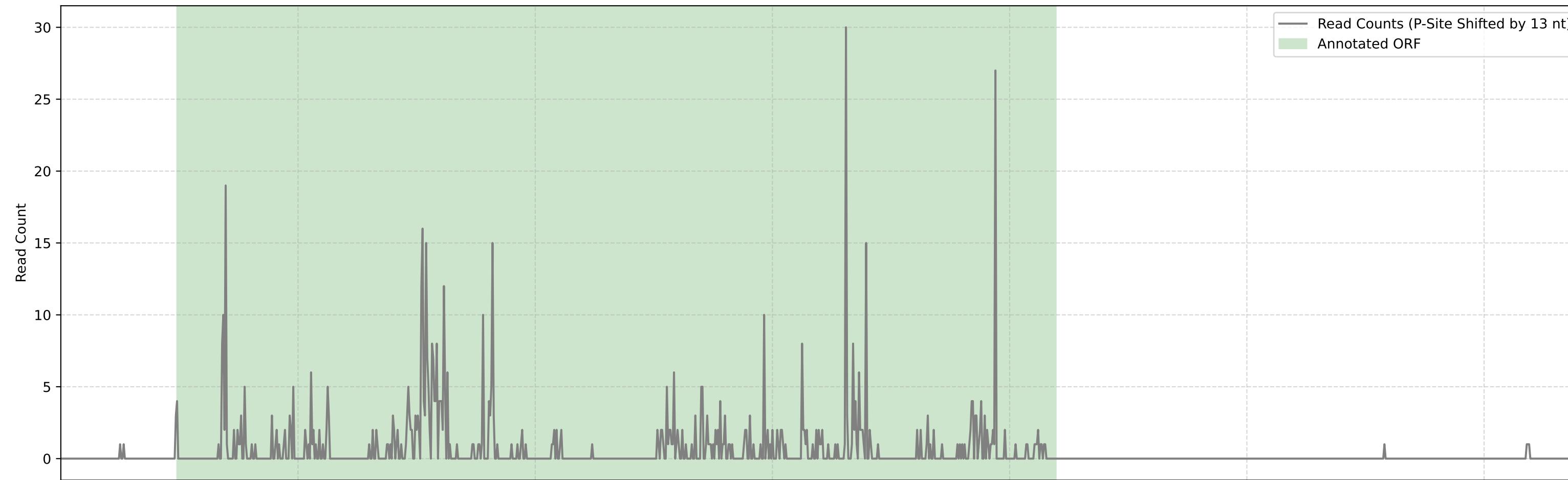
- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

Example: 63th Percentile (by TPM) Transcript (ENST00000223321.9)
Total Reads: 721 | TPM: 1534.34

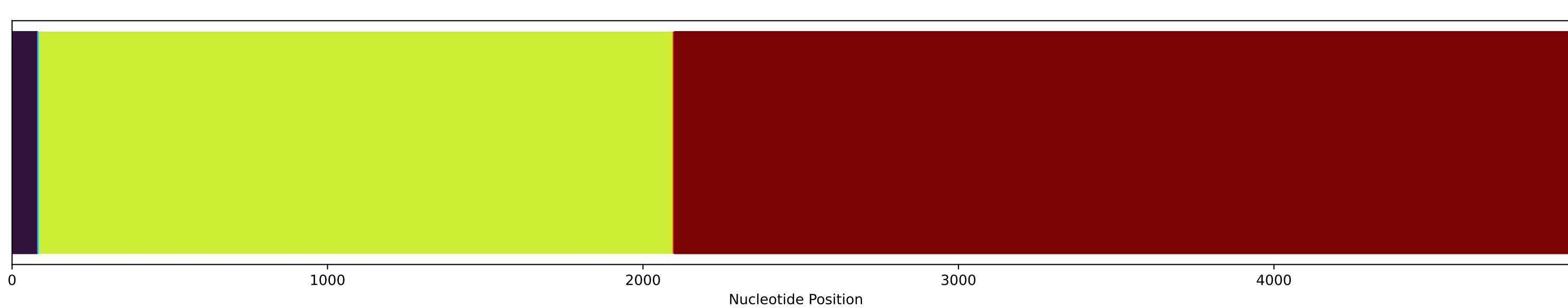
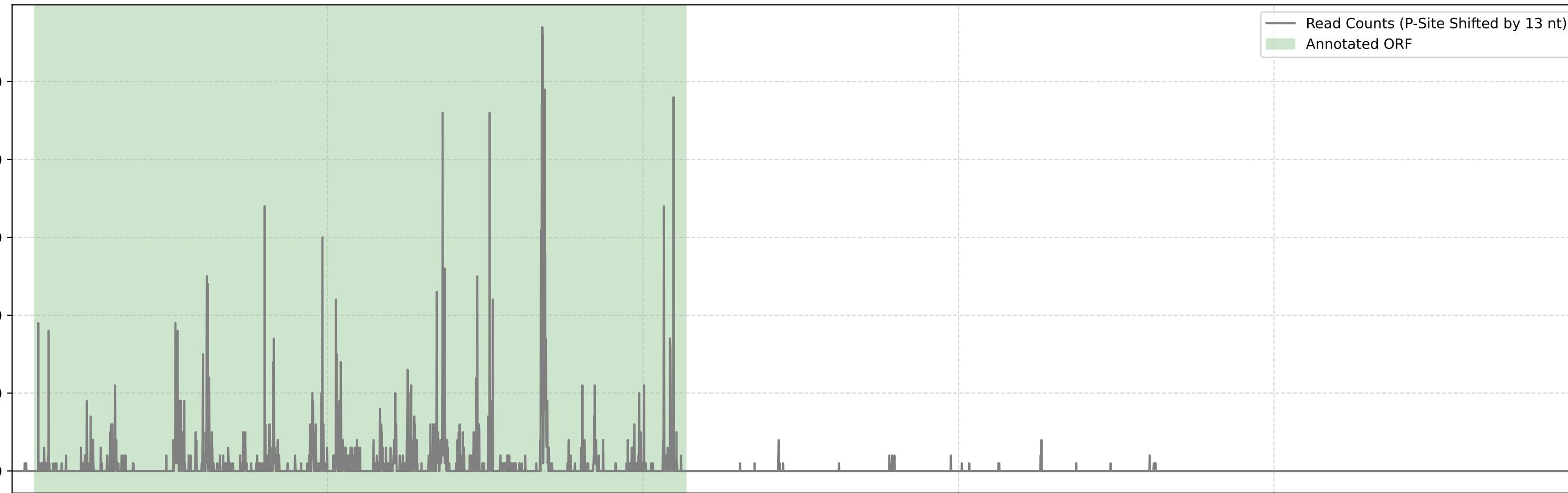


- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

Example: 64th Percentile (by TPM) Transcript (ENST00000345046.12)
Total Reads: 666 | TPM: 1582.87

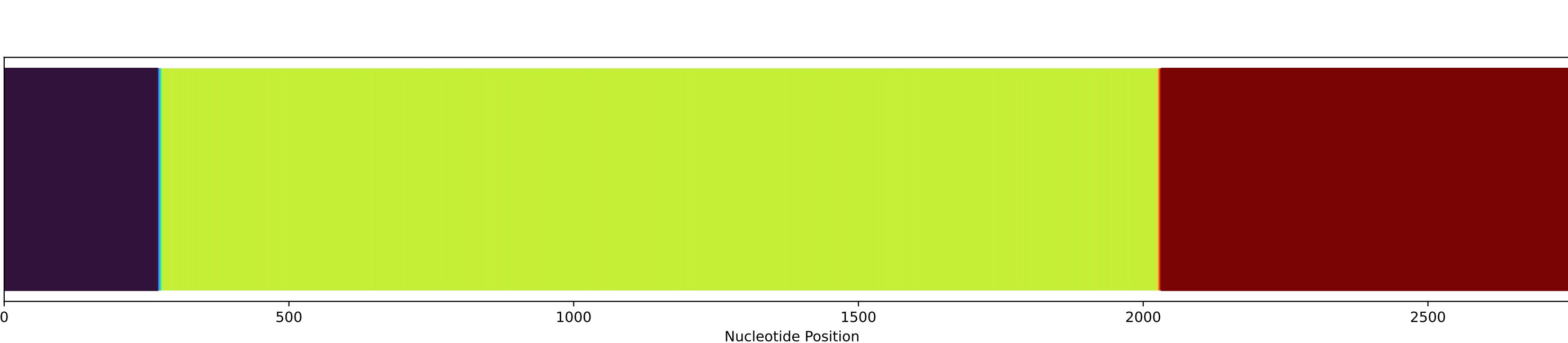
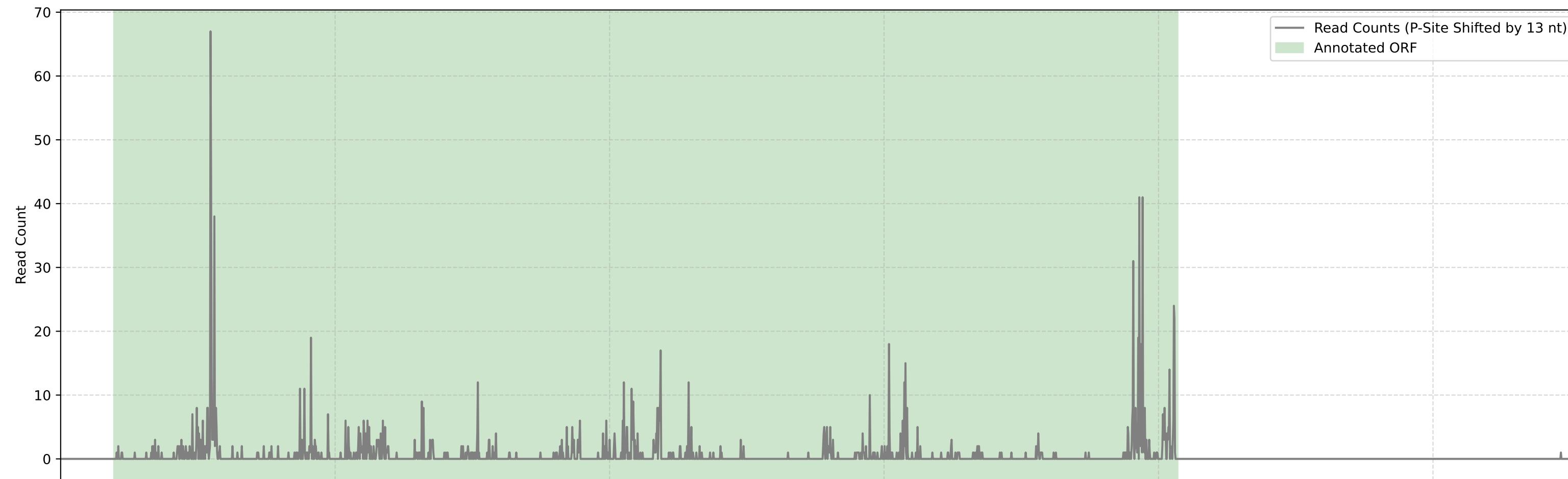


Example: 65th Percentile (by TPM) Transcript (ENST00000361475.7)
Total Reads: 2,608 | TPM: 1601.36



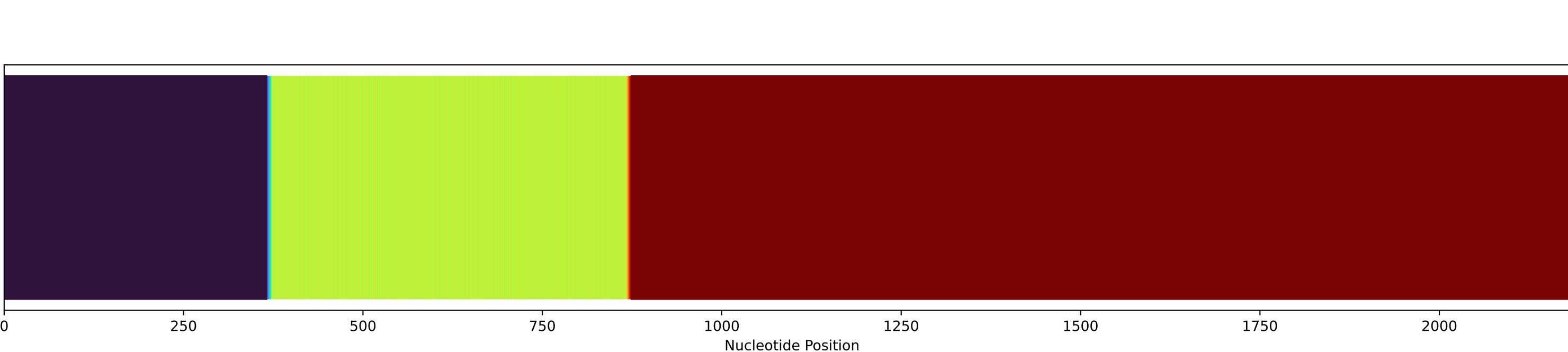
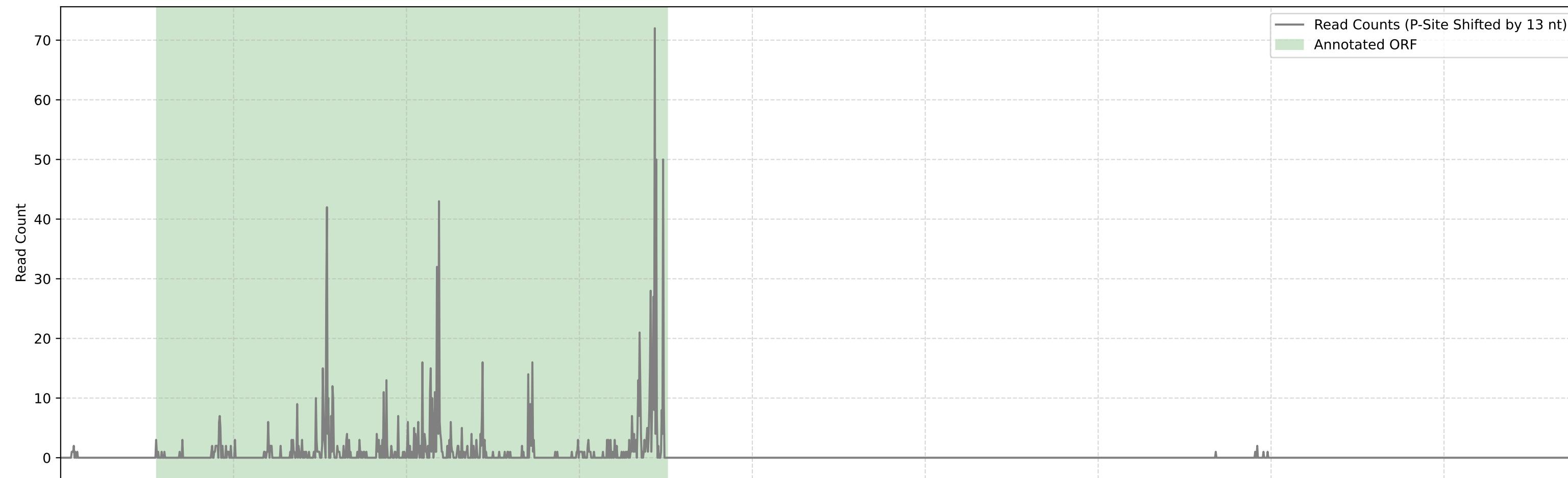
- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

Example: 66th Percentile (by TPM) Transcript (ENST00000652332.1)
Total Reads: 1,482 | TPM: 1634.47

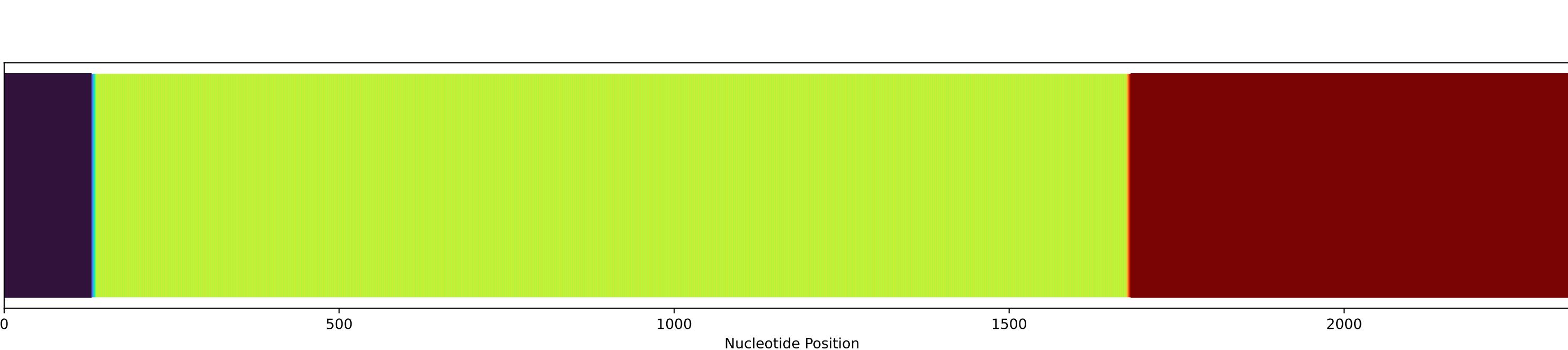
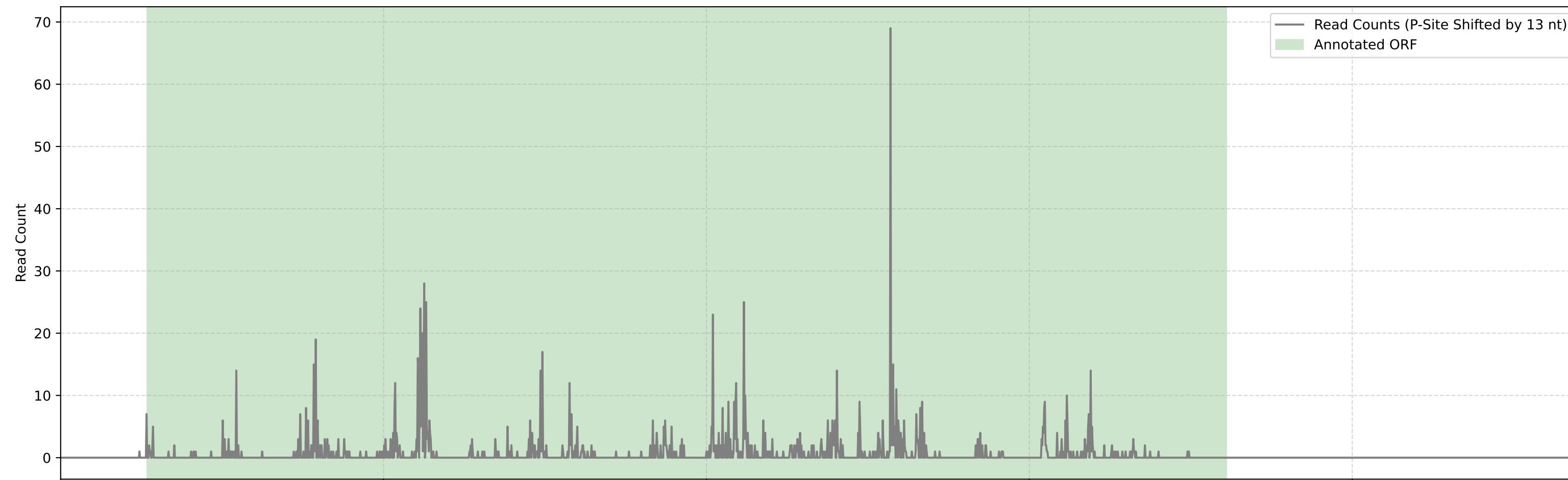


- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

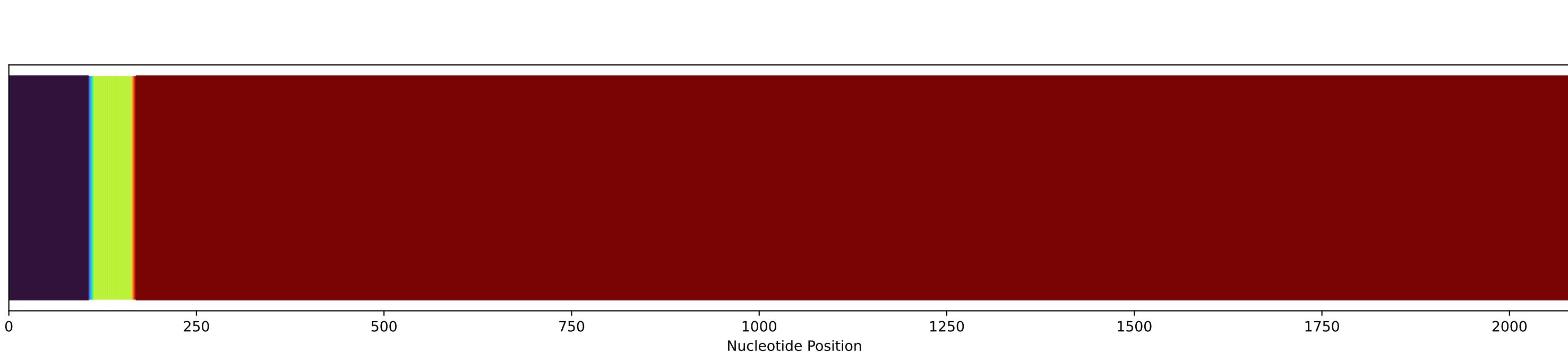
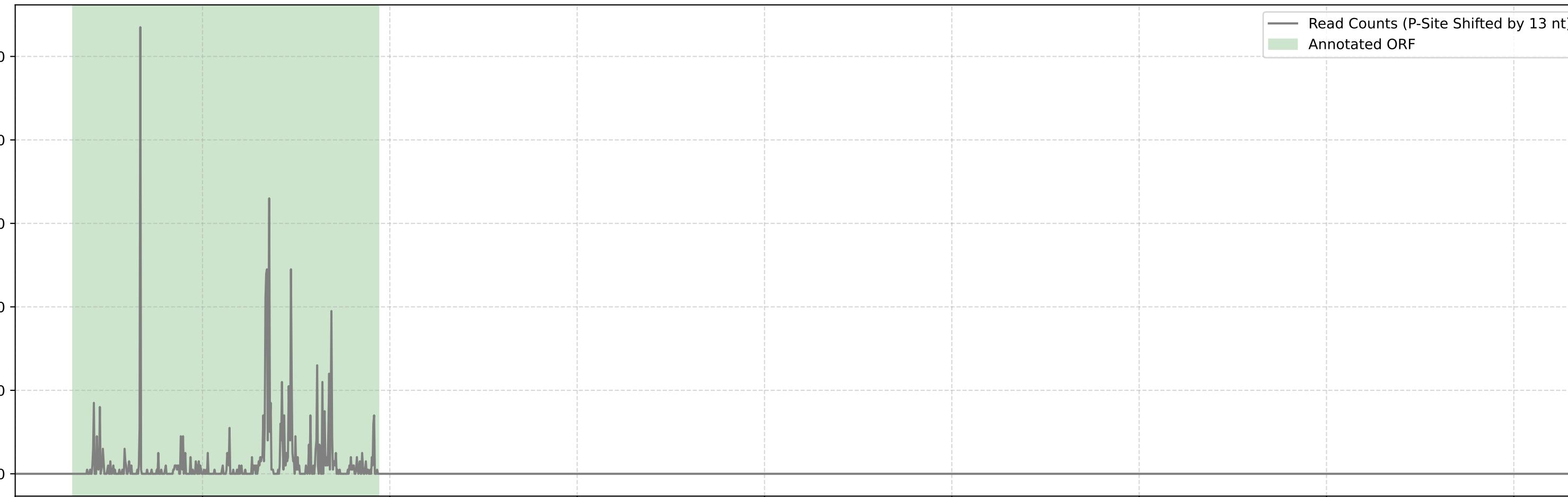
Example: 67th Percentile (by TPM) Transcript (ENST00000238081.8)
Total Reads: 1,206 | TPM: 1675.91



Example: 68th Percentile (by TPM) Transcript (ENST00000321394.12)
Total Reads: 1,347 | TPM: 1747.70

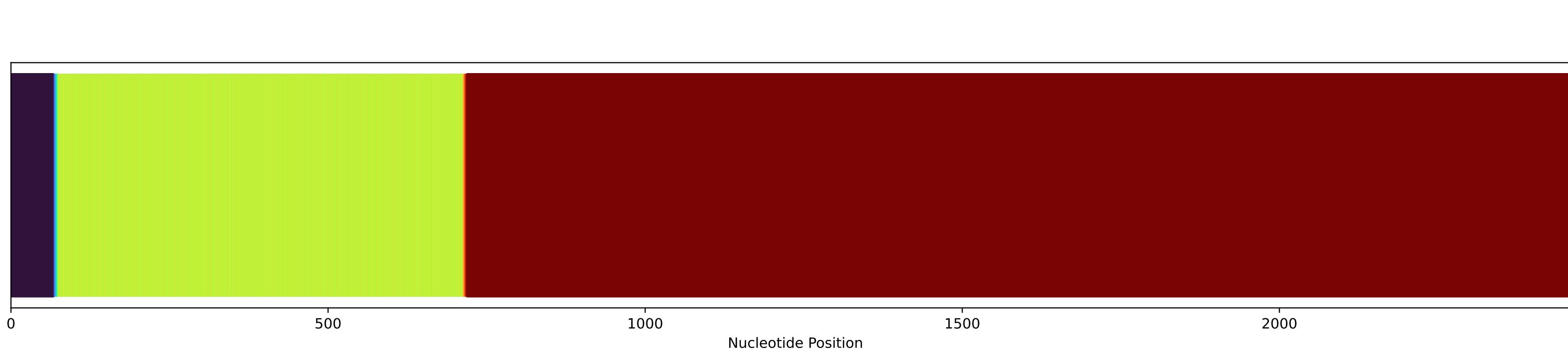
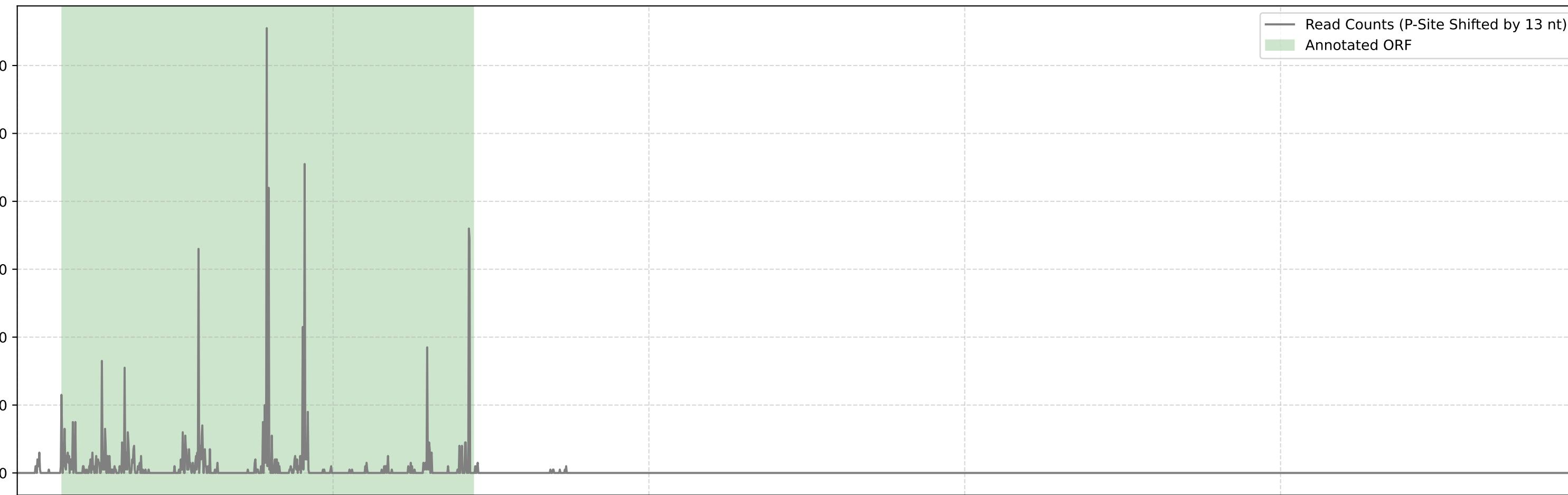


Example: 69th Percentile (by TPM) Transcript (ENST00000429711.7)
Total Reads: 1,223 | TPM: 1782.32



- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

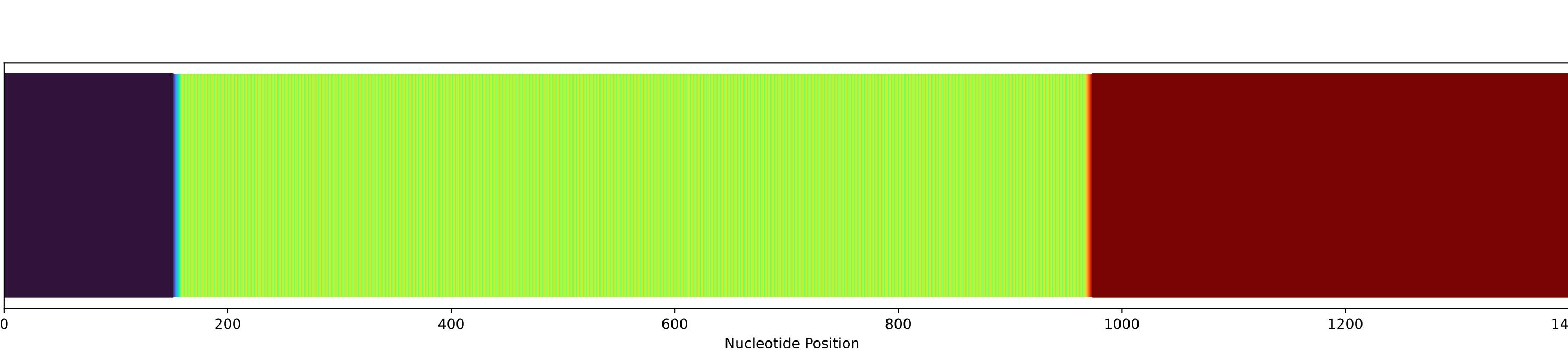
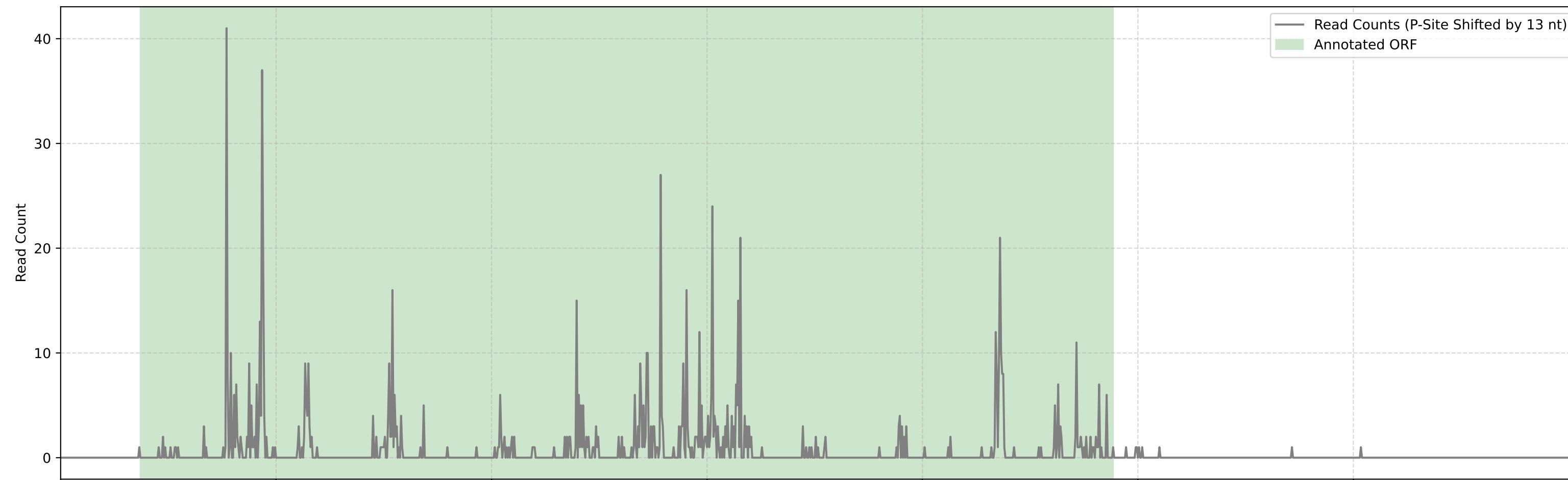
Example: 70th Percentile (by TPM) Transcript (ENST00000543796.6)
Total Reads: 1,515 | TPM: 1868.74



Legend:

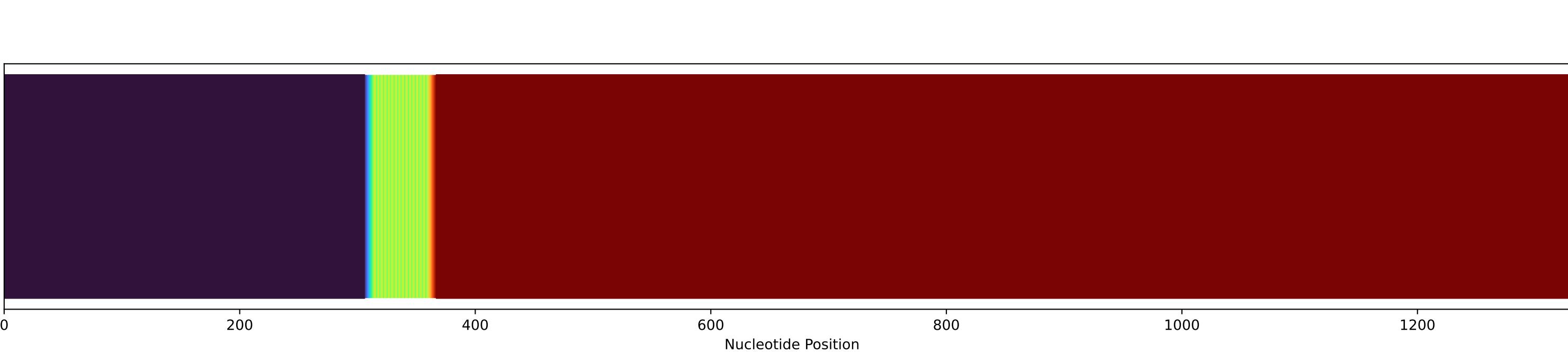
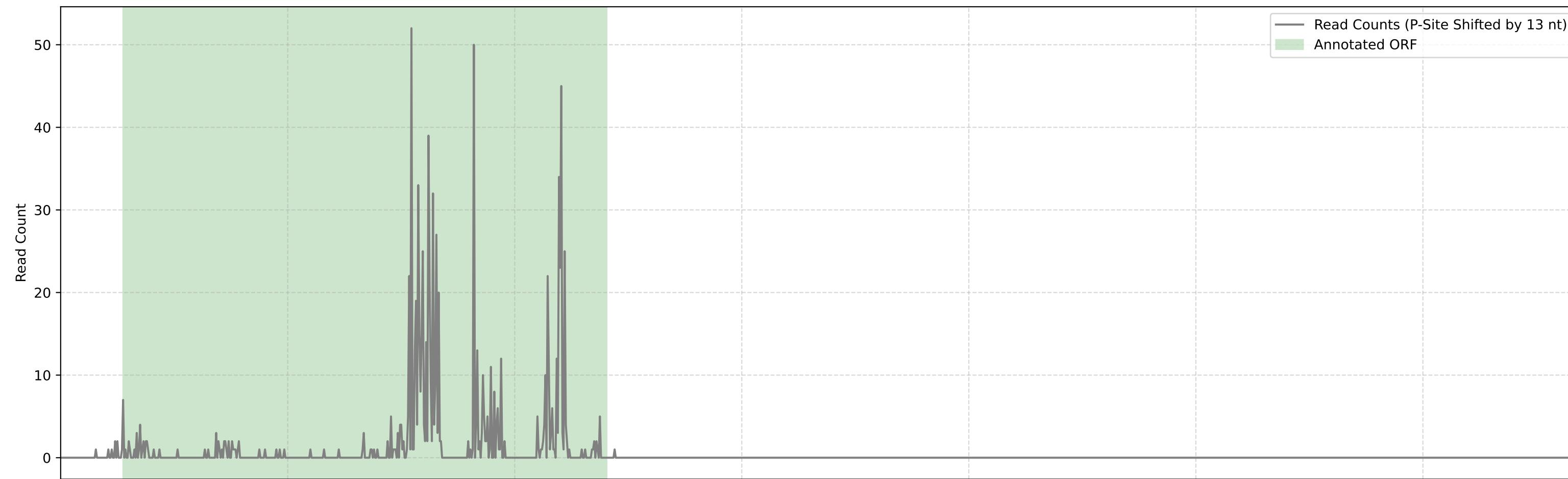
- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

Example: 71th Percentile (by TPM) Transcript (ENST00000315717.10)
Total Reads: 904 | TPM: 1956.53

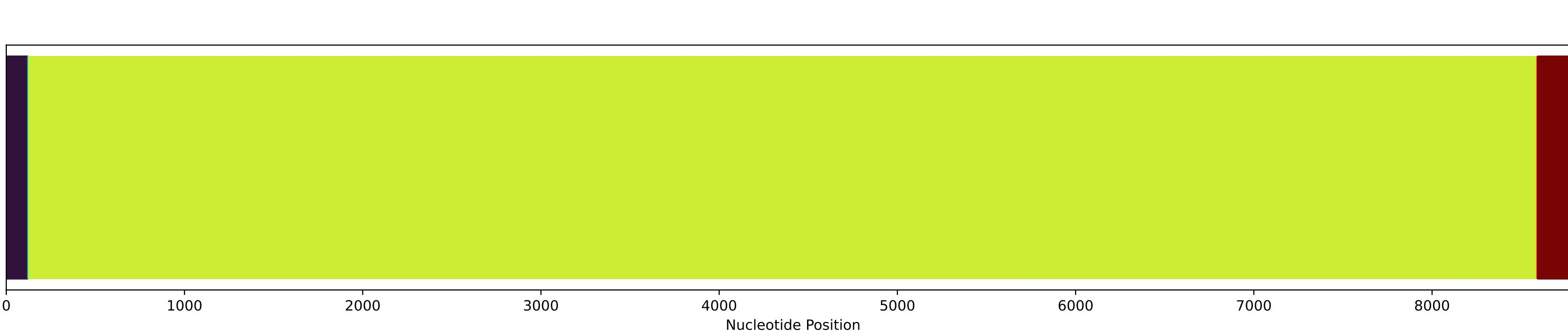
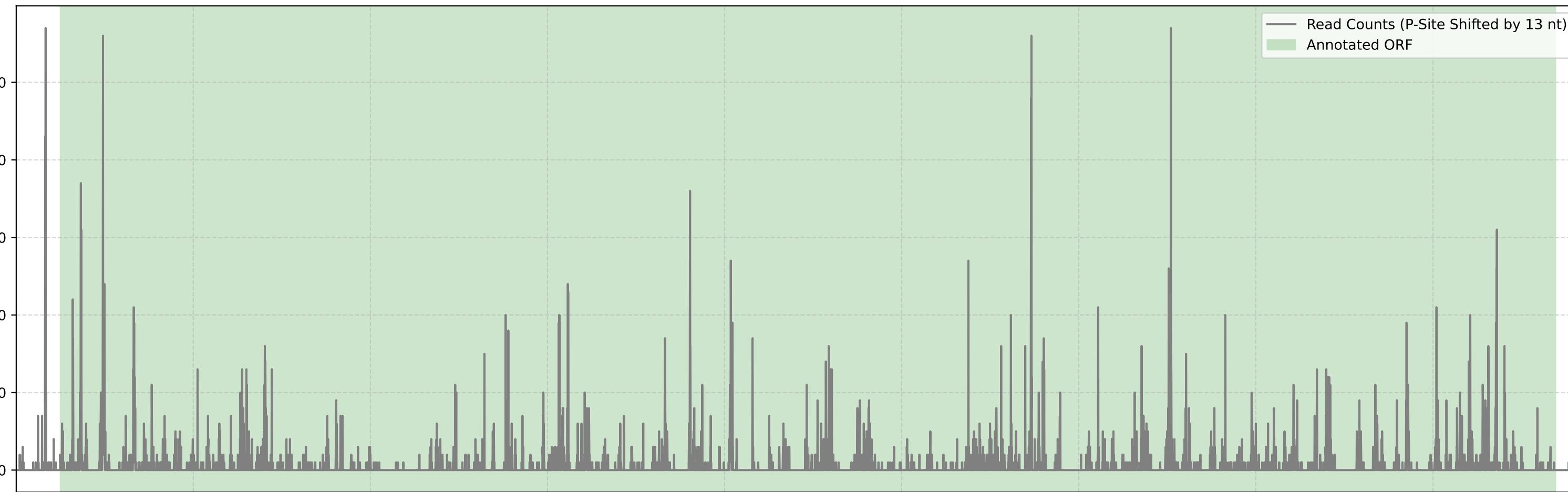


- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

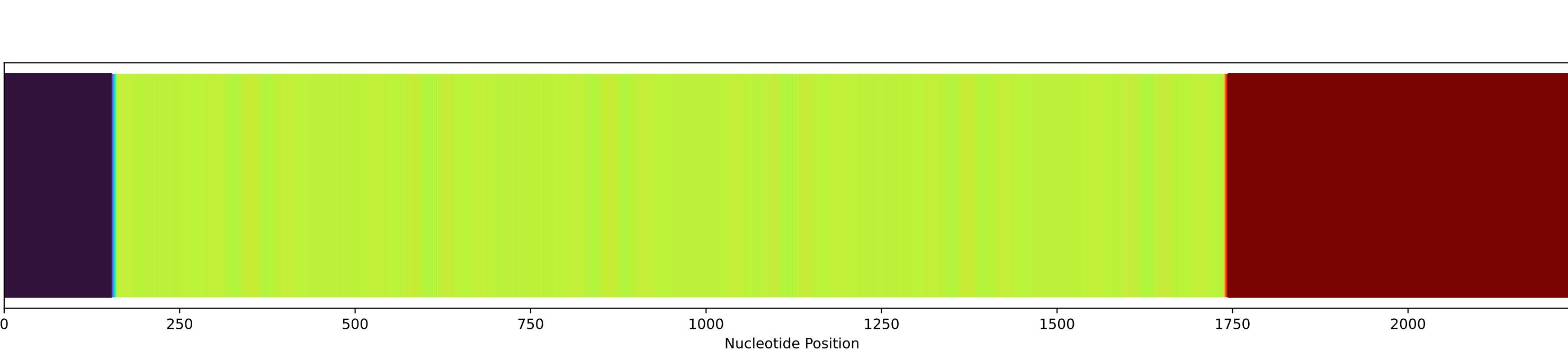
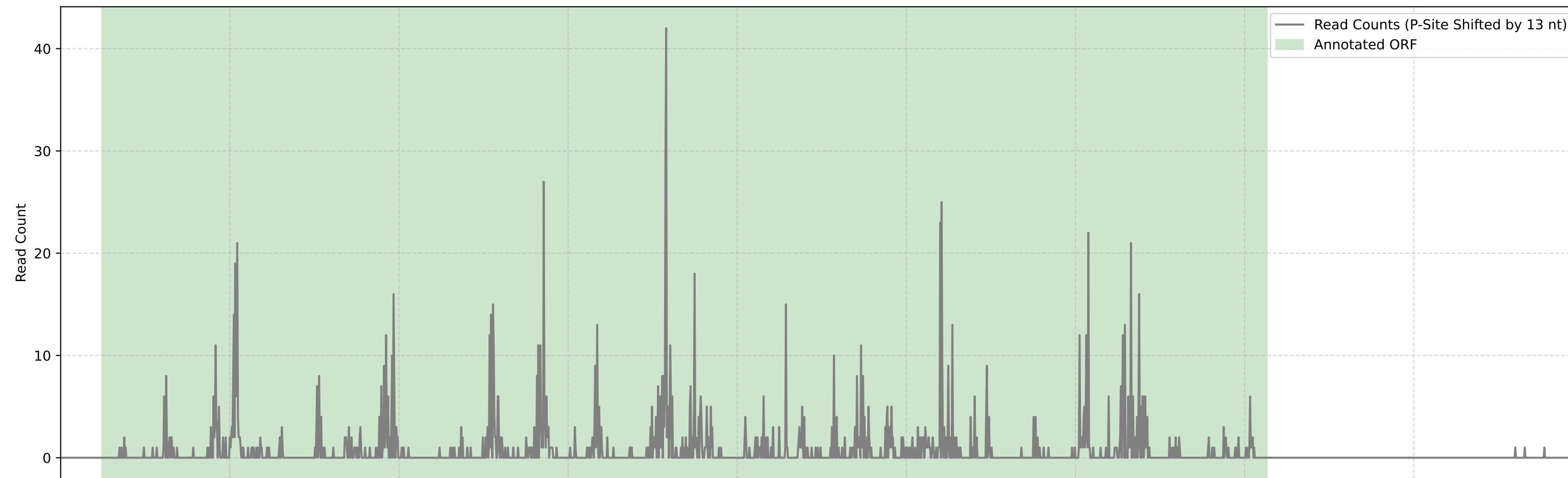
Example: 72th Percentile (by TPM) Transcript (ENST00000380842.5)
Total Reads: 895 | TPM: 2041.29



Example: 73th Percentile (by TPM) Transcript (ENST00000261405.10)
Total Reads: 6,039 | TPM: 2087.09

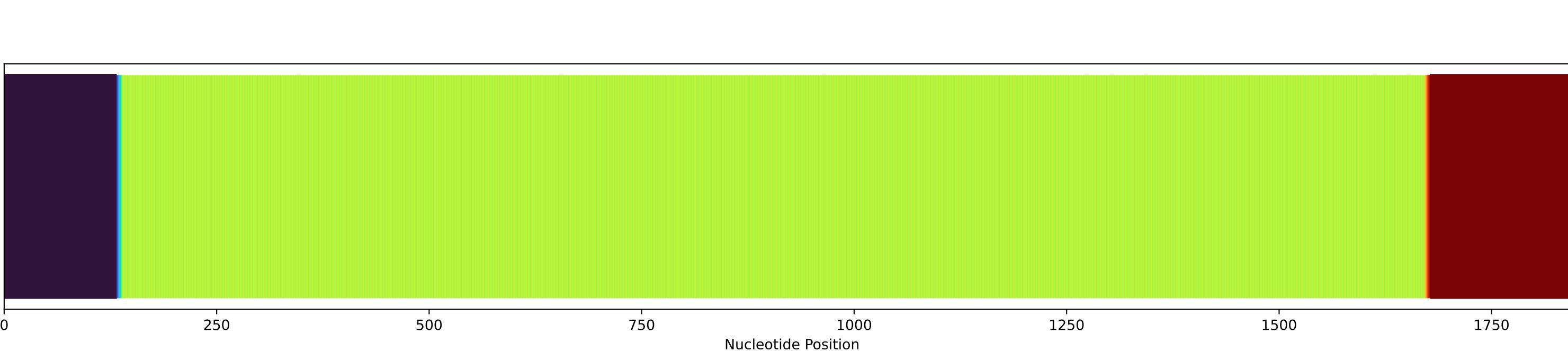
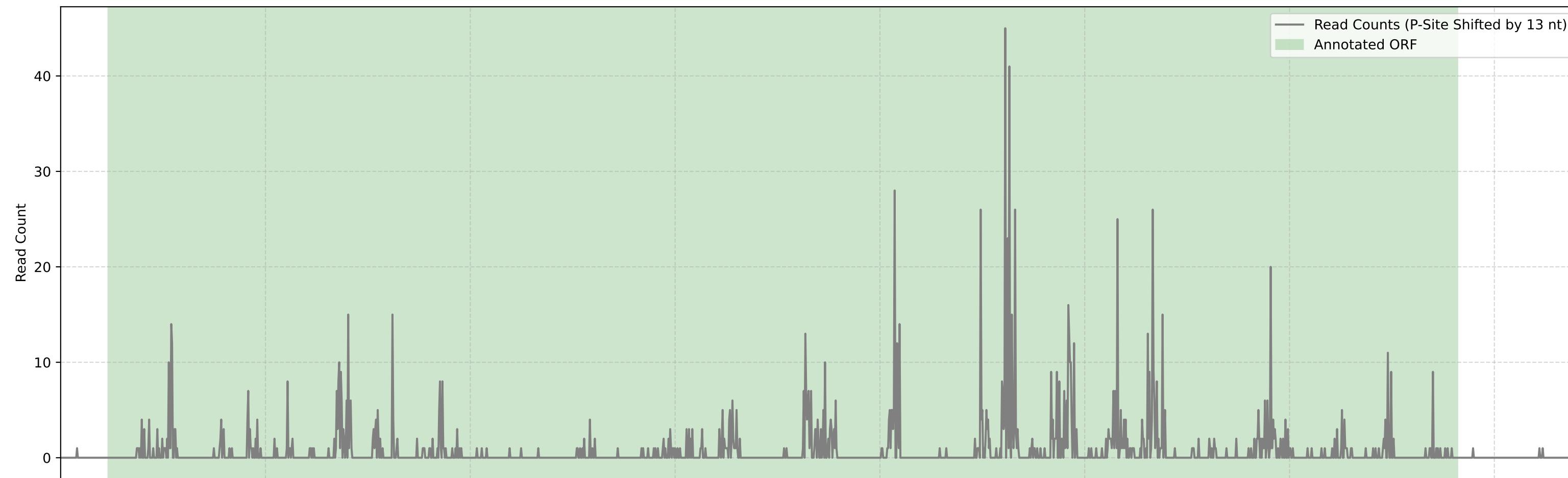


Example: 74th Percentile (by TPM) Transcript (ENST00000388968.8)
Total Reads: 1,612 | TPM: 2191.22

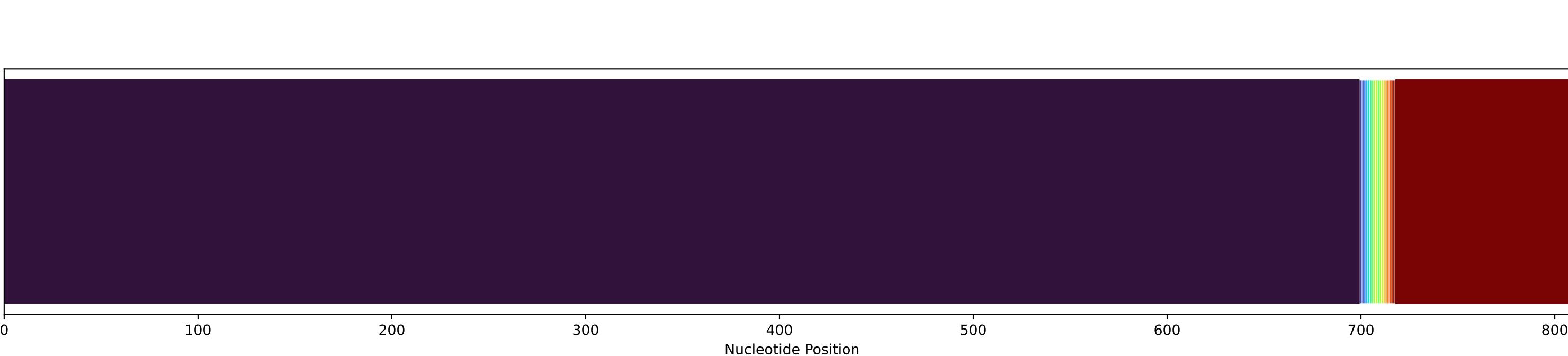
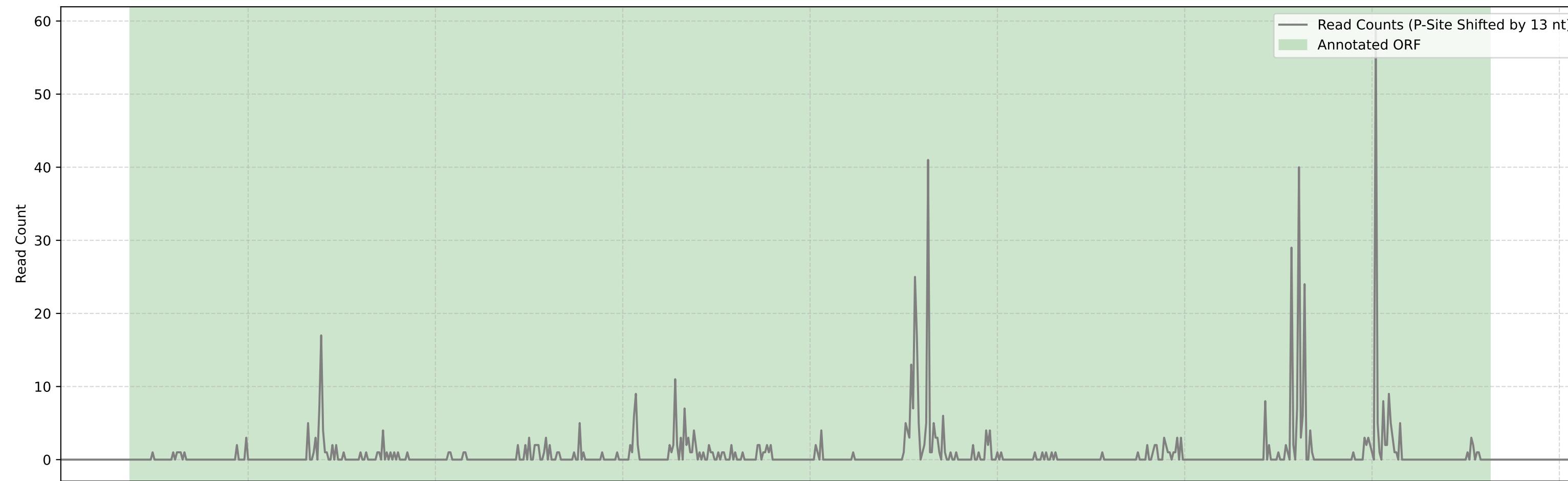


5'UTR
Pre-INIT-1
Pre-INIT-2
Pre-INIT-3
INIT
Post-INIT-1
Post-INIT-2
T1
T2
T3
Pre-TERM-1
Pre-TERM-2
Pre-TERM-3
TERM
Post-TERM-1
Post-TERM-2
3'UTR

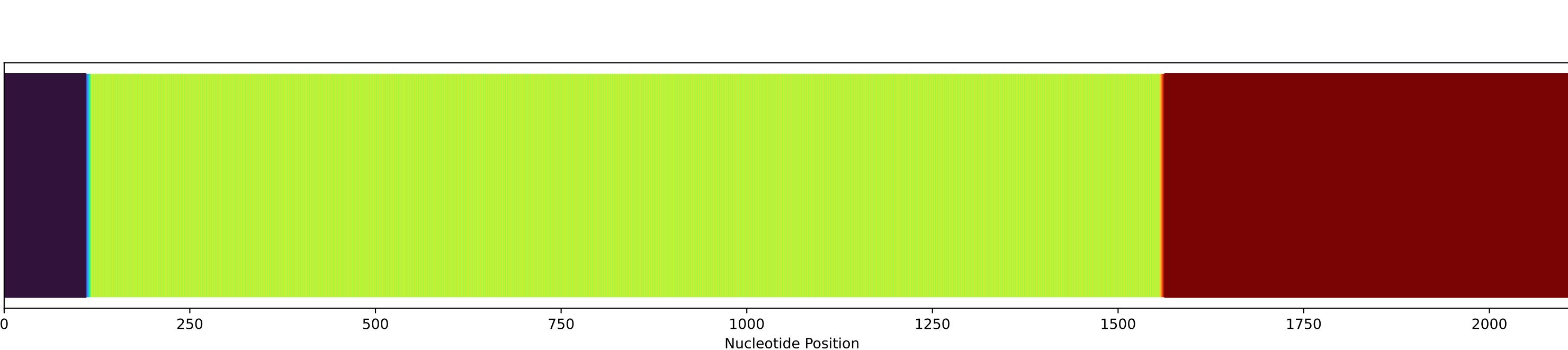
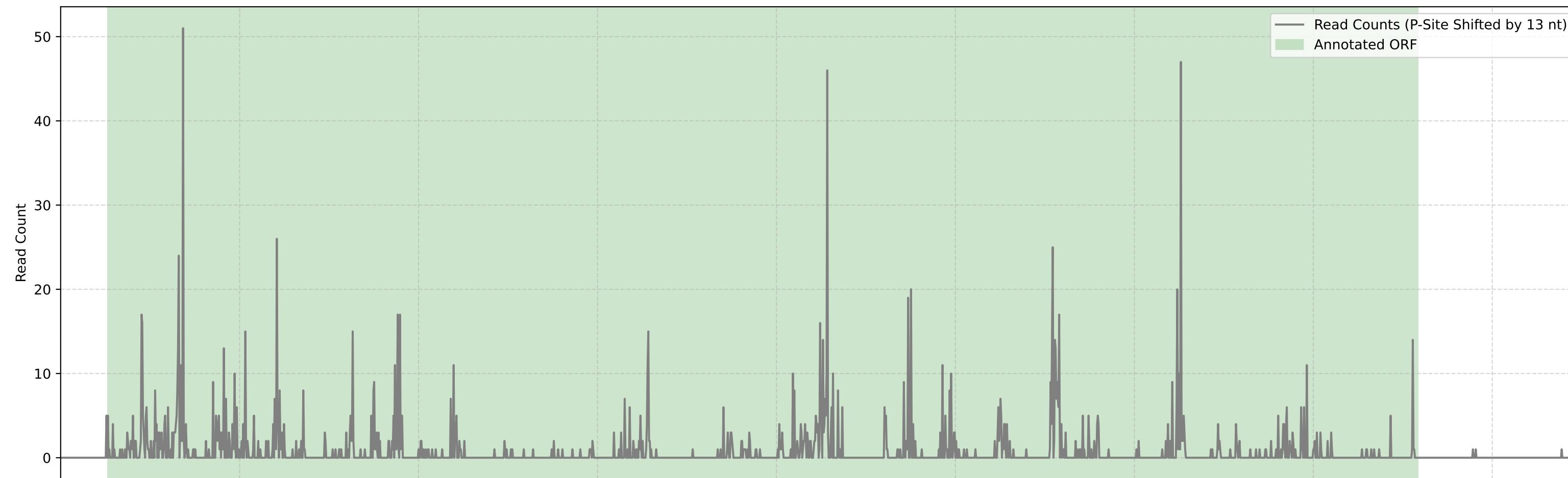
Example: 75th Percentile (by TPM) Transcript (ENST00000286788.9)
Total Reads: 1,411 | TPM: 2322.49



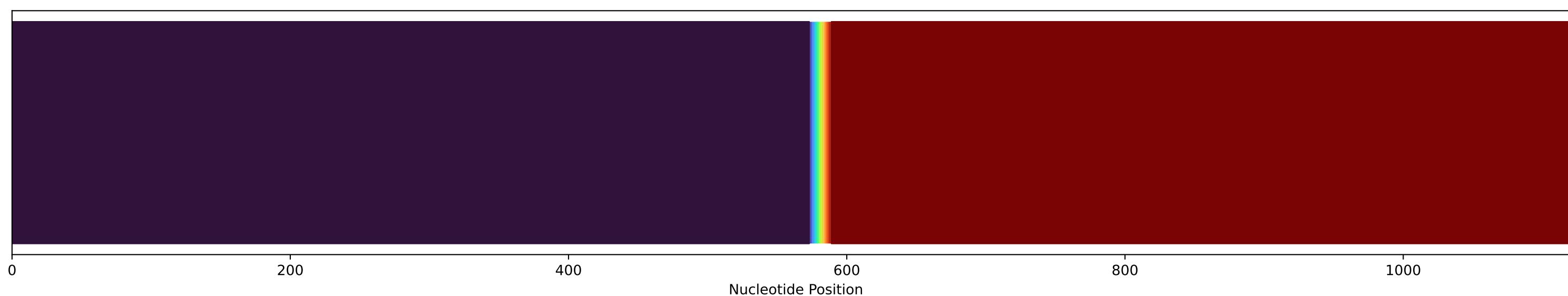
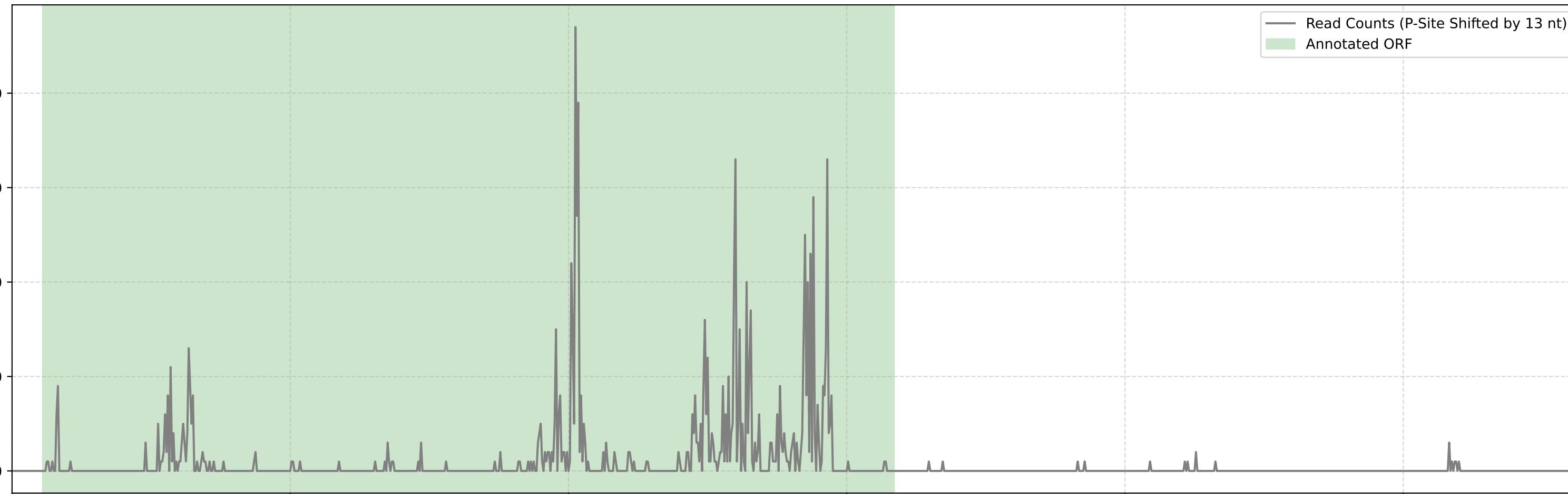
Example: 76th Percentile (by TPM) Transcript (ENST00000369713.10)
Total Reads: 642 | TPM: 2409.80



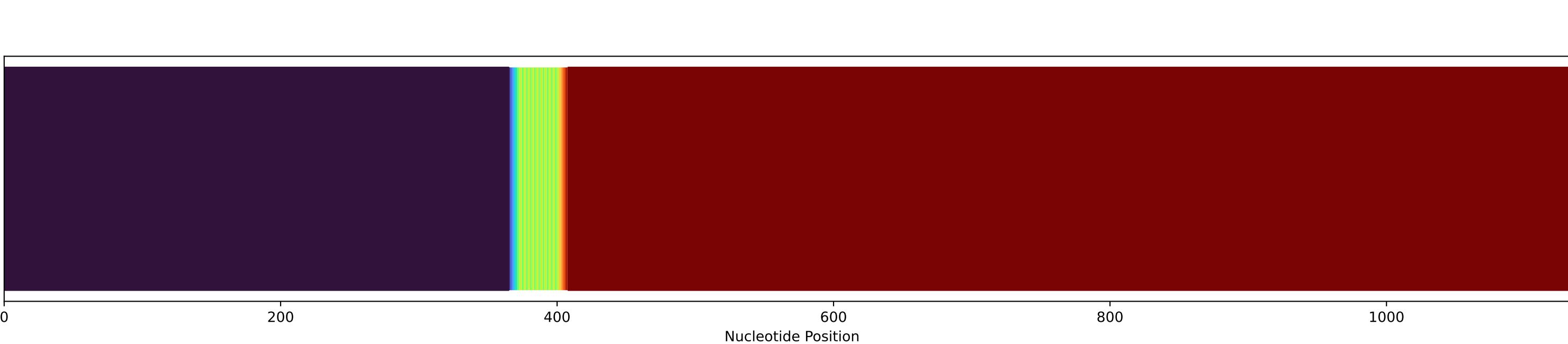
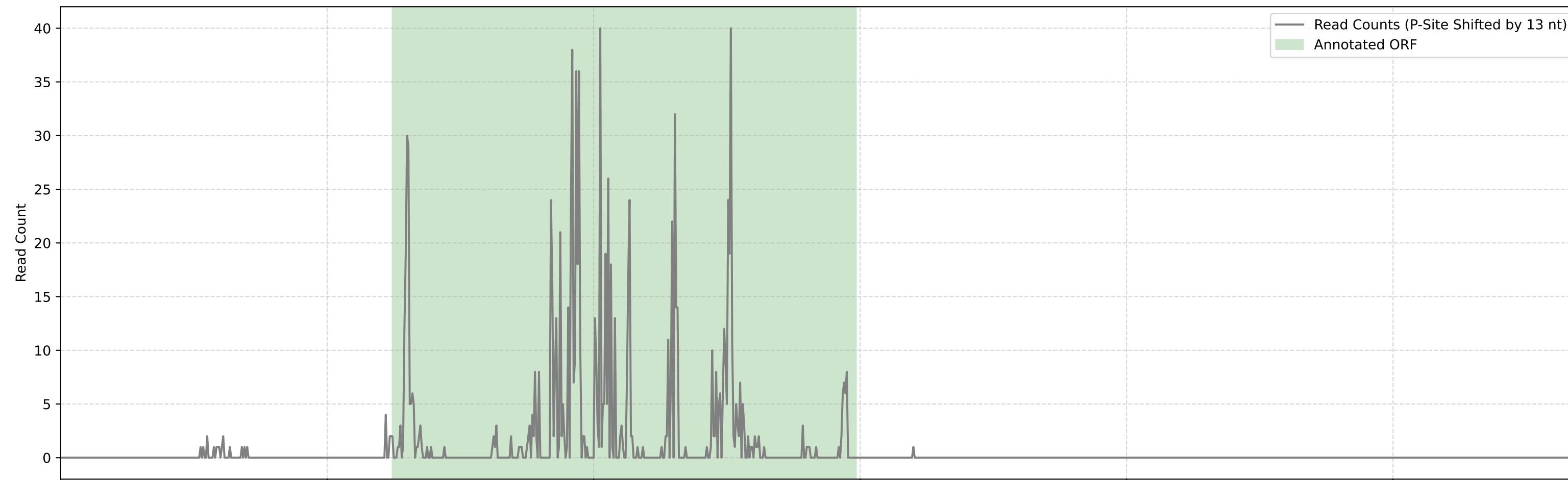
Example: 77th Percentile (by TPM) Transcript (ENST00000360079.8)
Total Reads: 1,729 | TPM: 2486.49



Example: 78th Percentile (by TPM) Transcript (ENST00000391857.9)
Total Reads: 982 | TPM: 2659.04

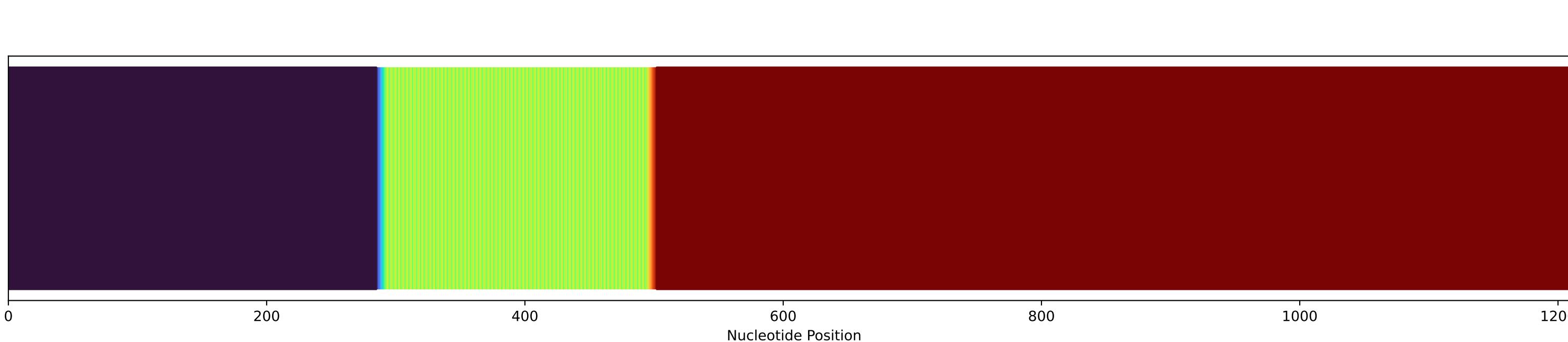
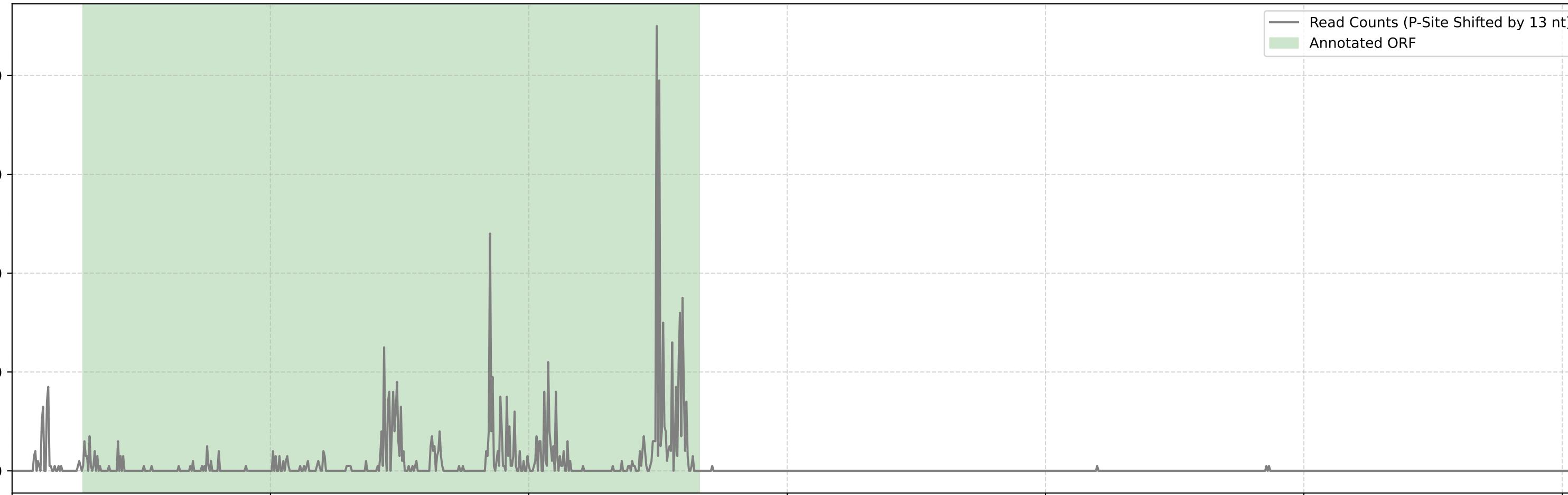


Example: 79th Percentile (by TPM) Transcript (ENST00000646449.2)
Total Reads: 1,050 | TPM: 2810.74

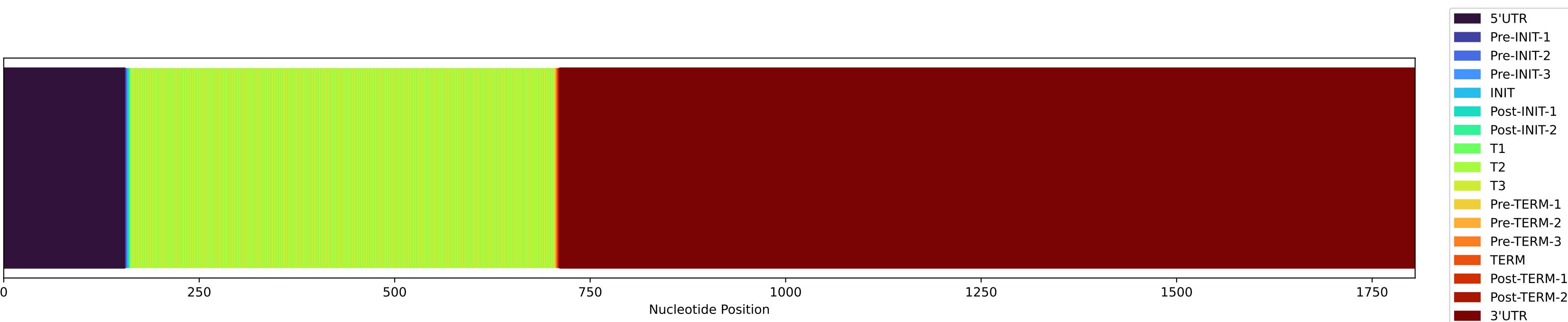
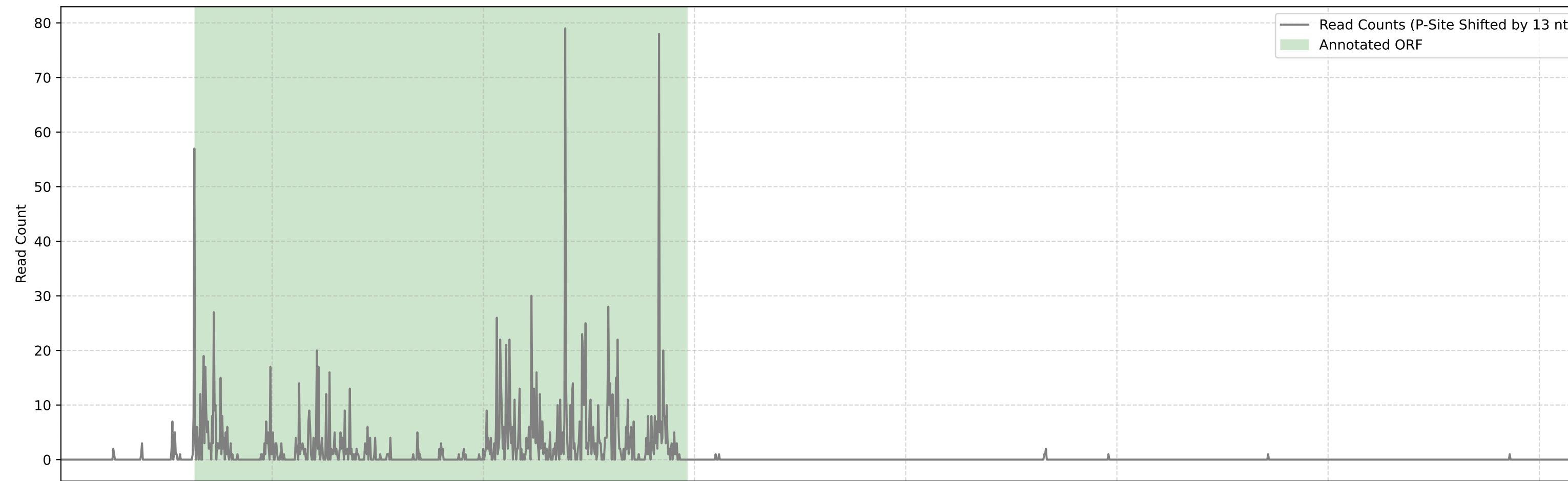


- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

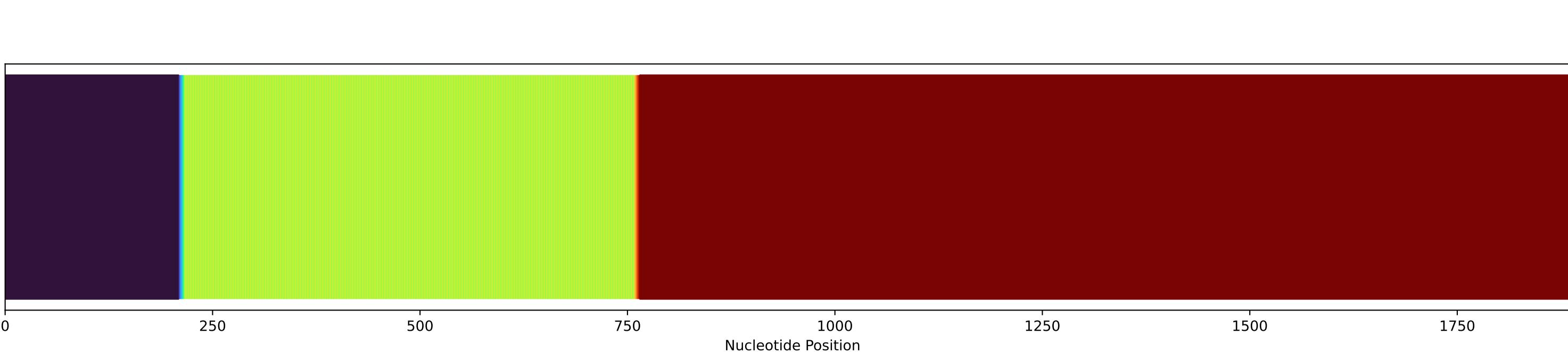
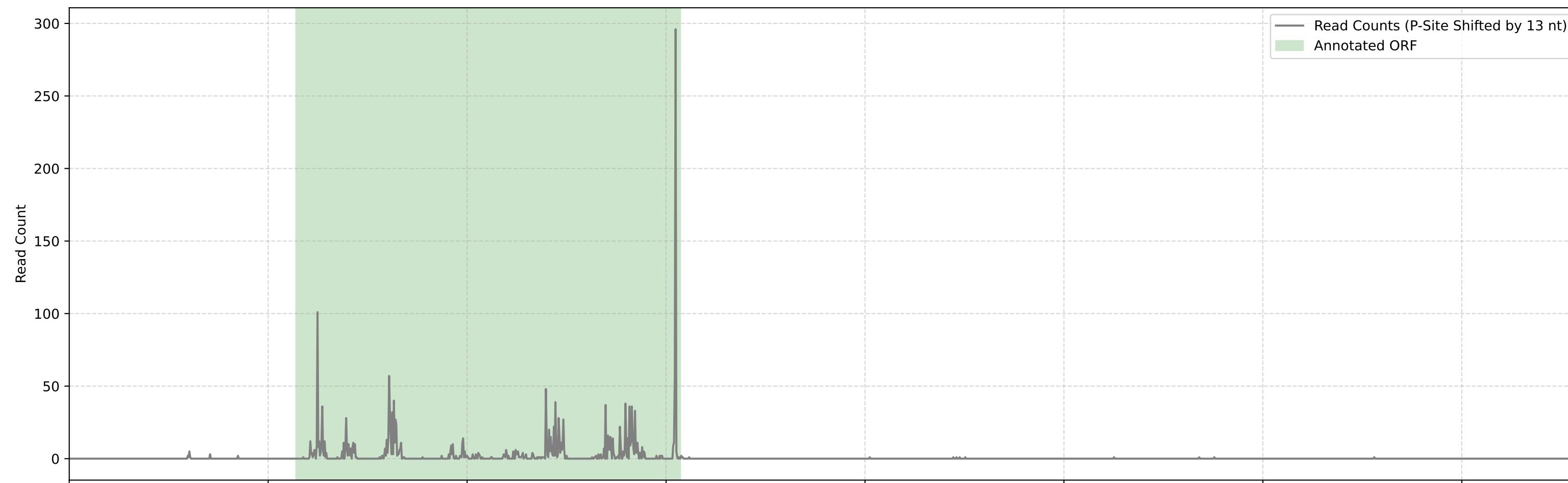
Example: 80th Percentile (by TPM) Transcript (ENST00000242465.4)
Total Reads: 1,177 | TPM: 2951.36



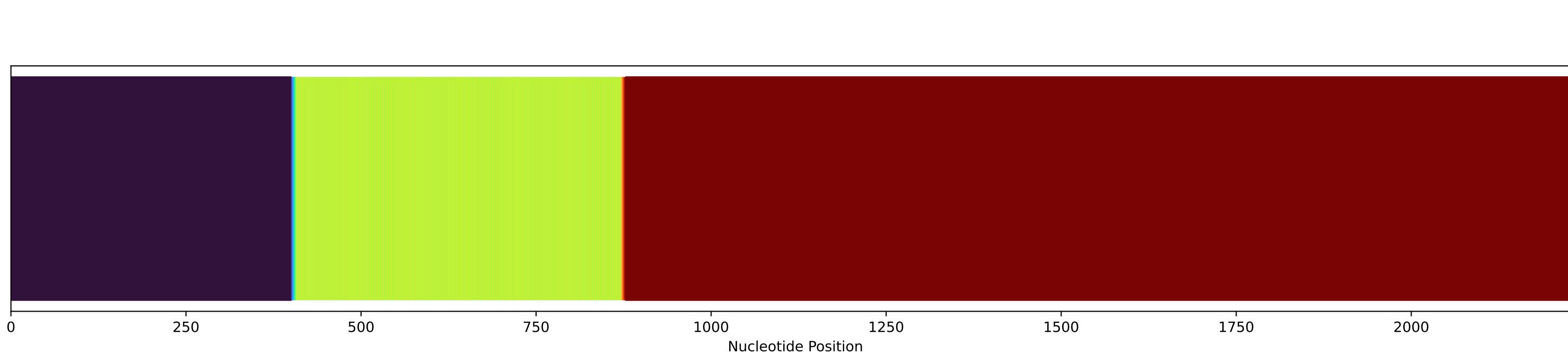
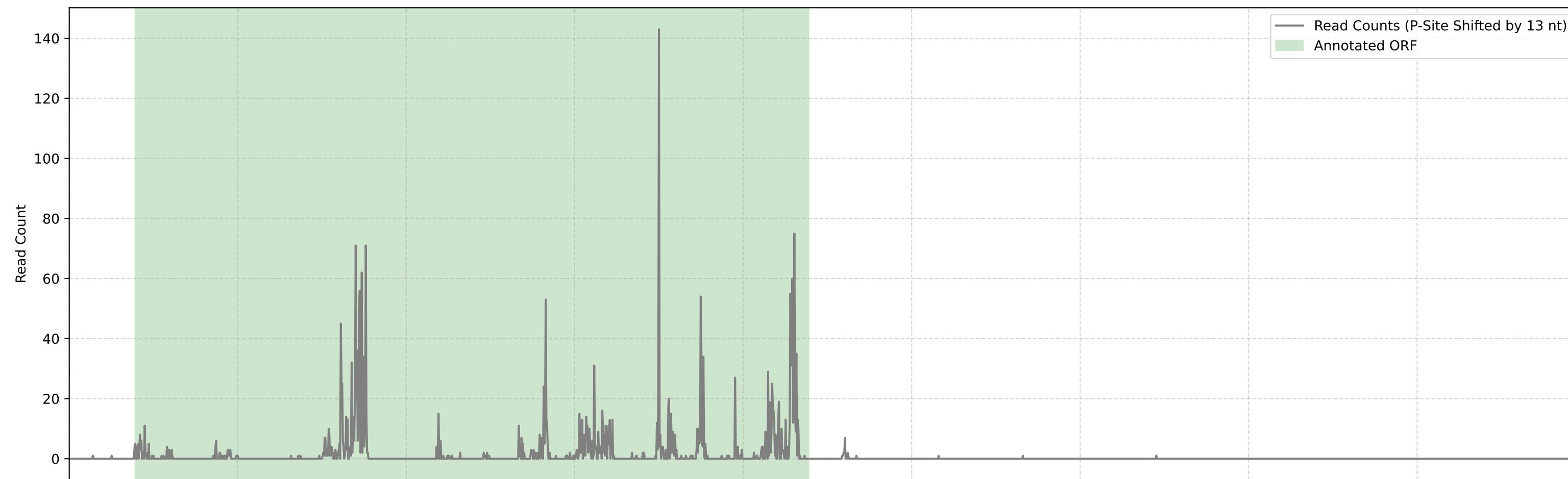
Example: 81th Percentile (by TPM) Transcript (ENST00000418115.6)
Total Reads: 1,830 | TPM: 3093.93



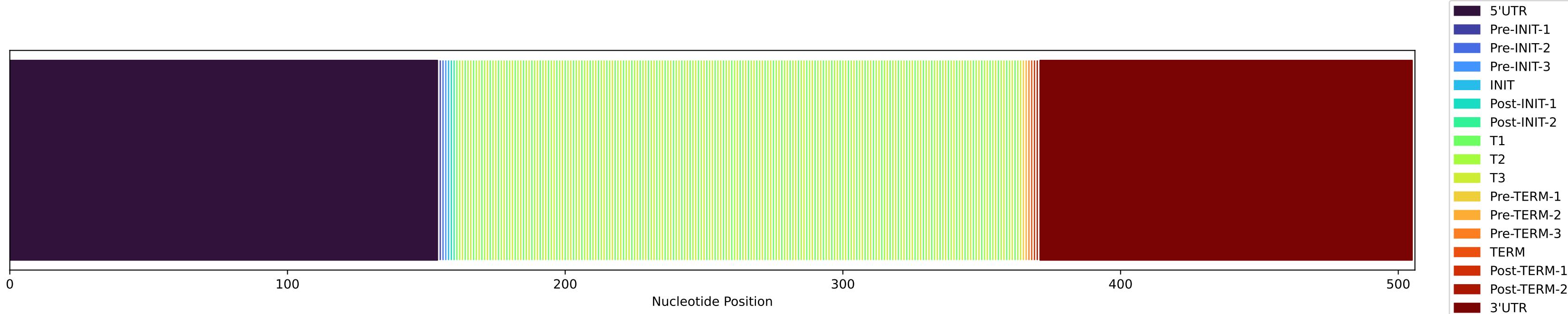
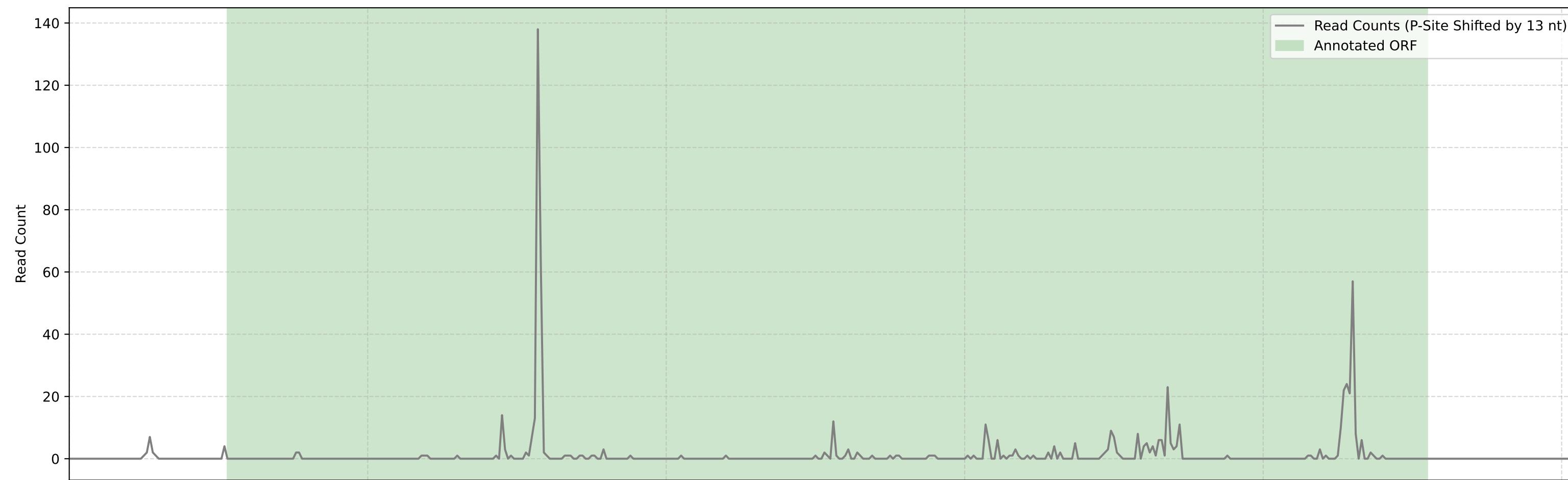
Example: 82th Percentile (by TPM) Transcript (ENST00000262033.11)
Total Reads: 2,025 | TPM: 3255.86



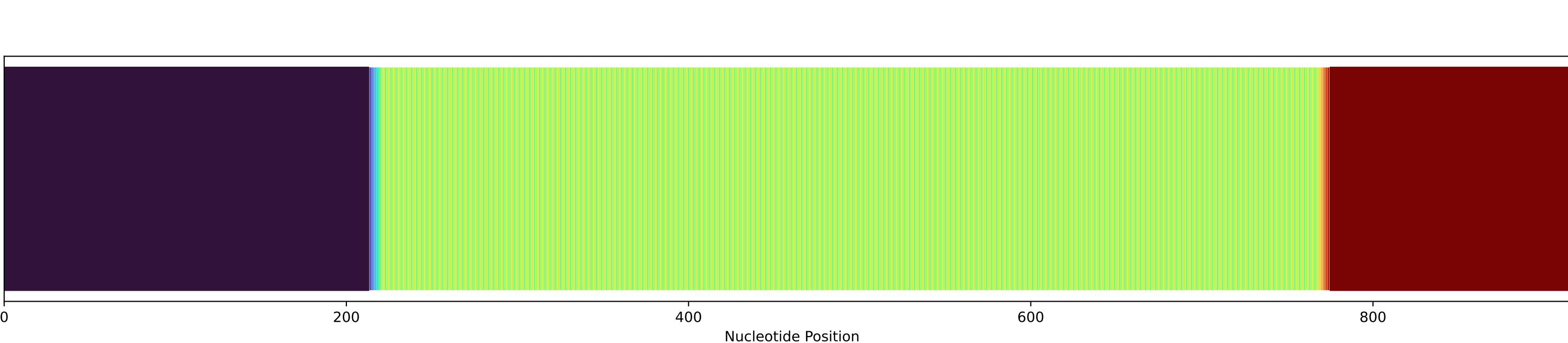
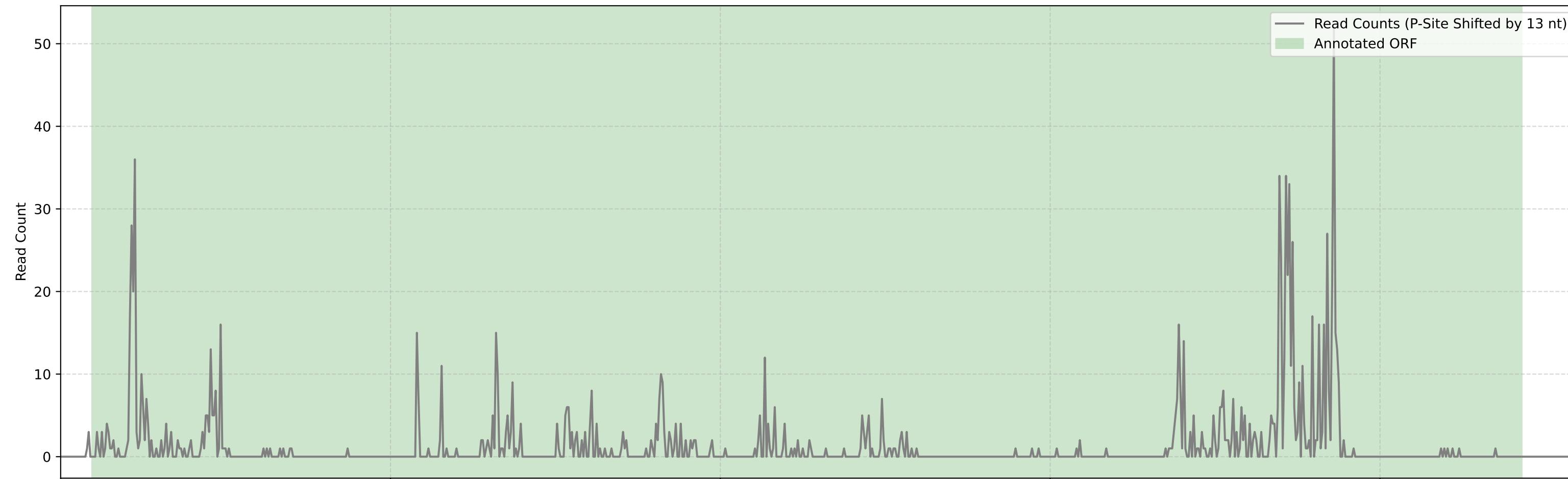
Example: 83th Percentile (by TPM) Transcript (ENST00000422447.8)
Total Reads: 2,642 | TPM: 3597.72



Example: 84th Percentile (by TPM) Transcript (ENST00000529639.6)
Total Reads: 629 | TPM: 3793.47

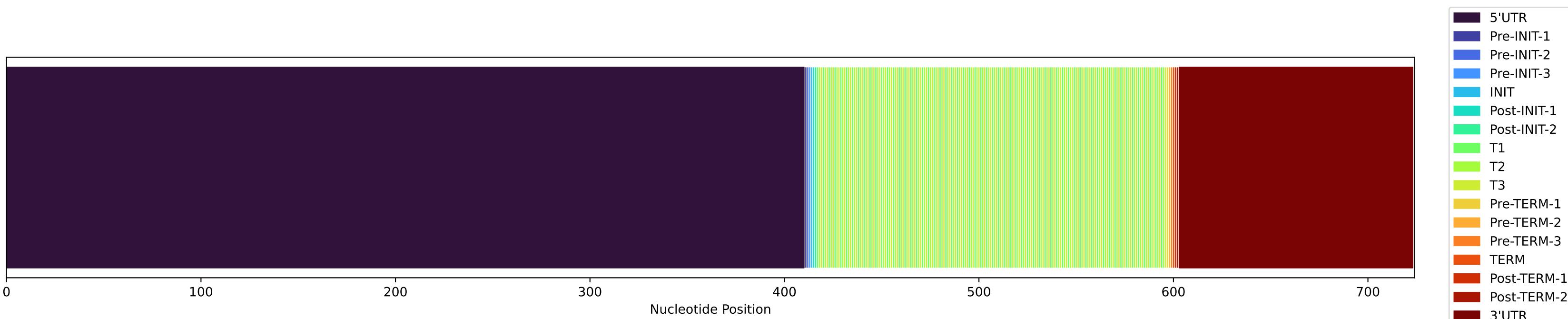
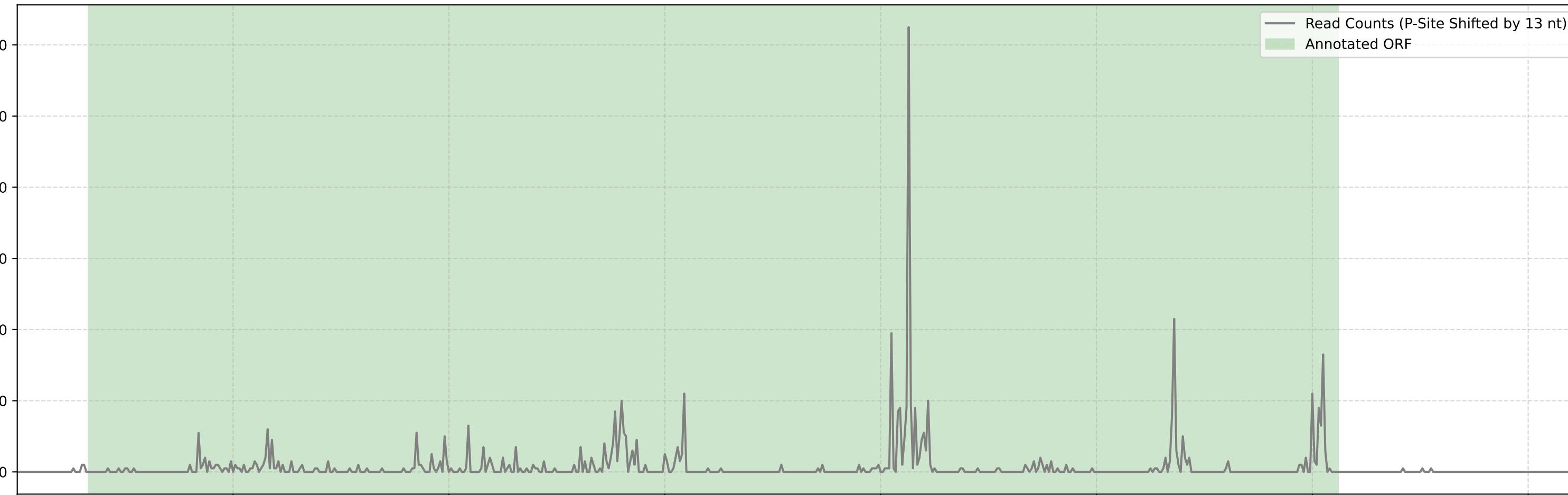


Example: 85th Percentile (by TPM) Transcript (ENST00000202773.14)
Total Reads: 1,216 | TPM: 4029.13

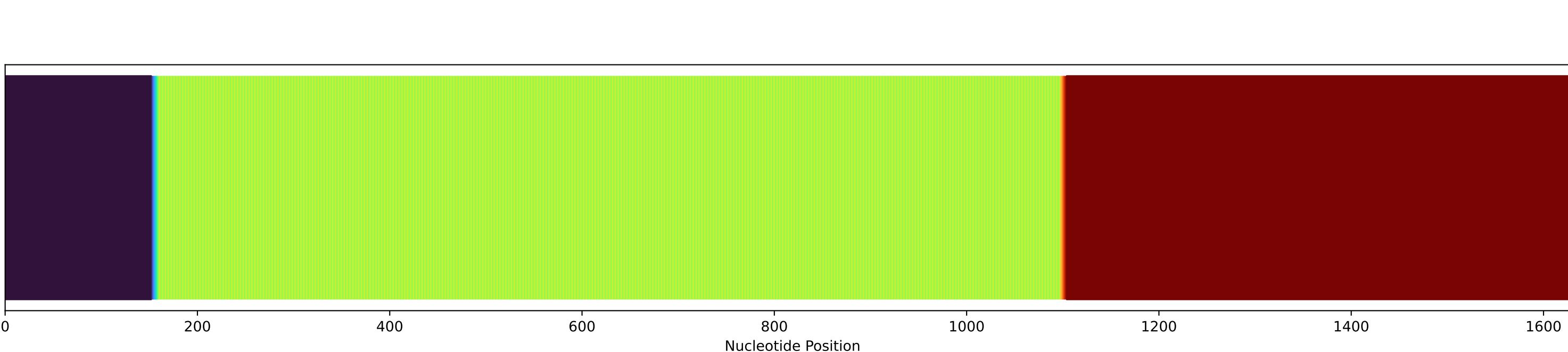
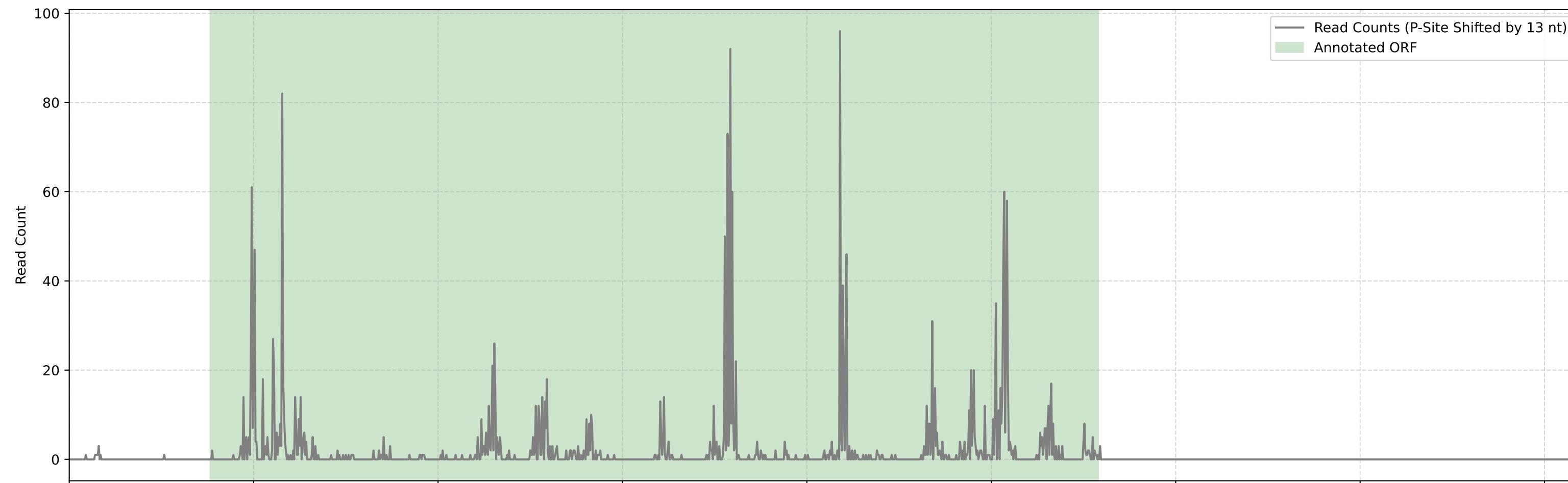


- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

Example: 86th Percentile (by TPM) Transcript (ENST00000295955.14)
Total Reads: 975 | TPM: 4109.63

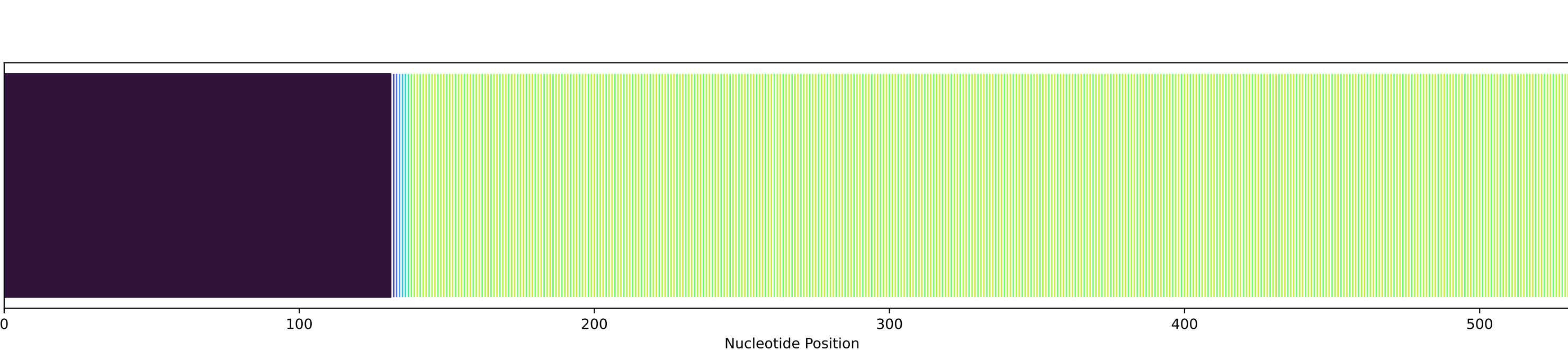
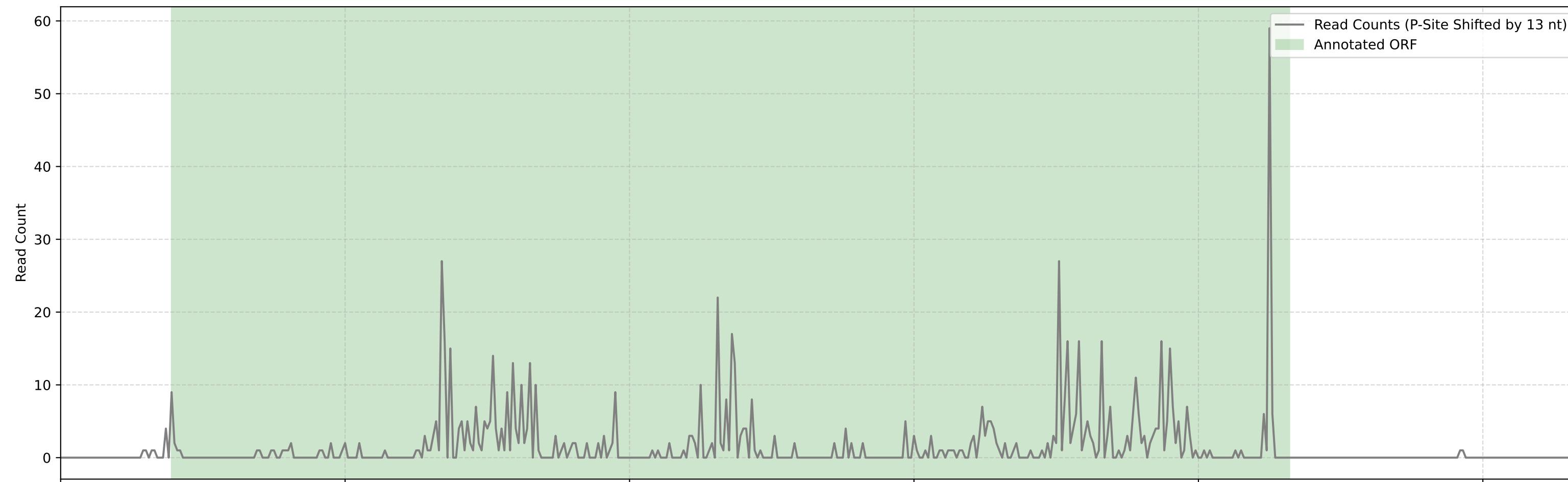


Example: 87th Percentile (by TPM) Transcript (ENST00000296511.10)
Total Reads: 2,323 | TPM: 4327.85



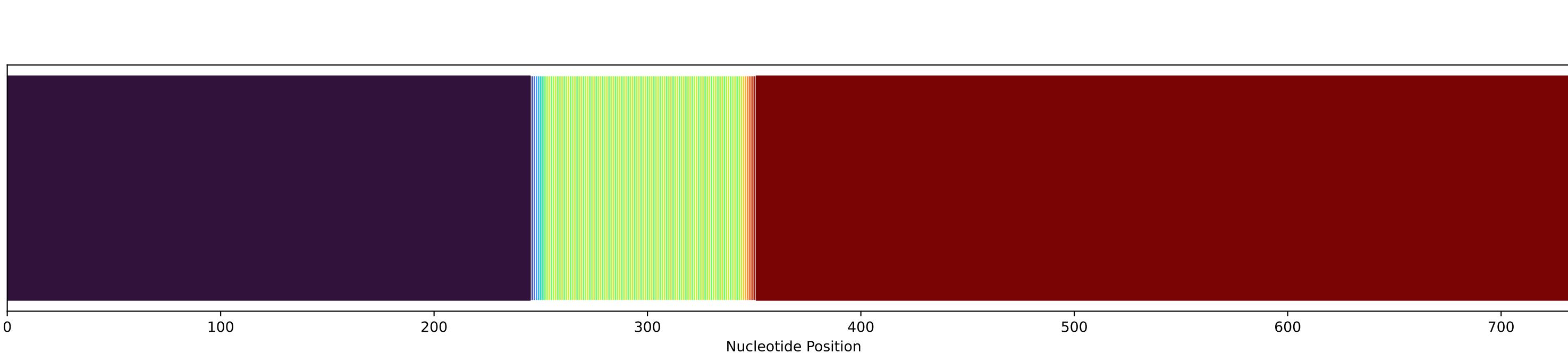
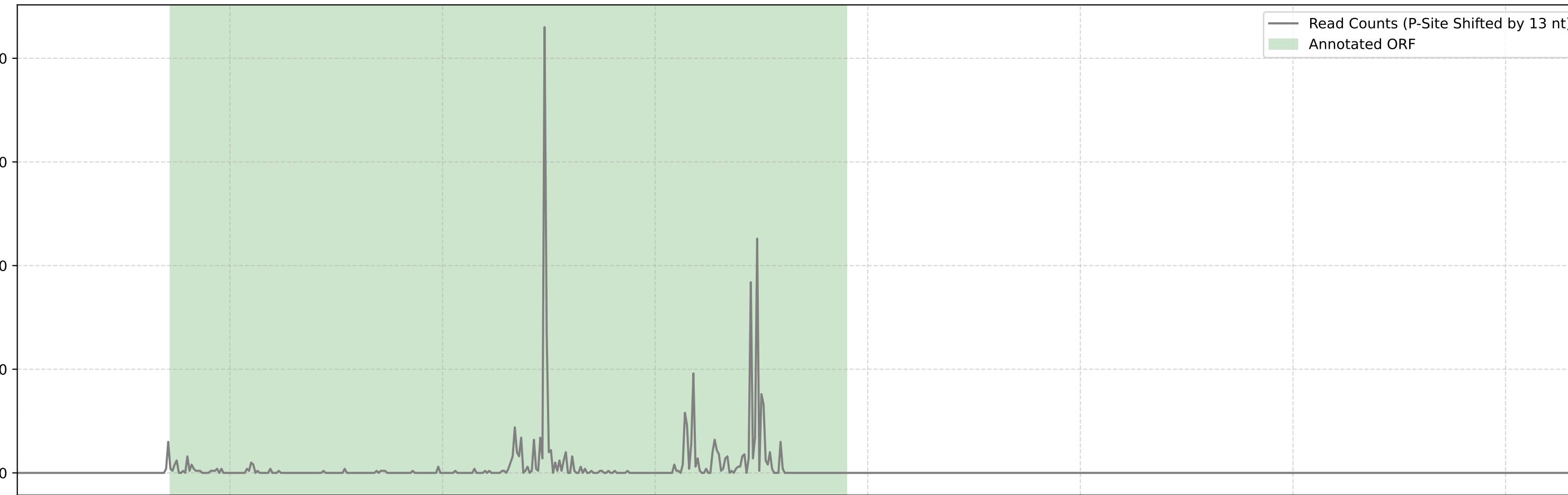
- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

Example: 88th Percentile (by TPM) Transcript (ENST00000372360.9)
Total Reads: 783 | TPM: 4474.63

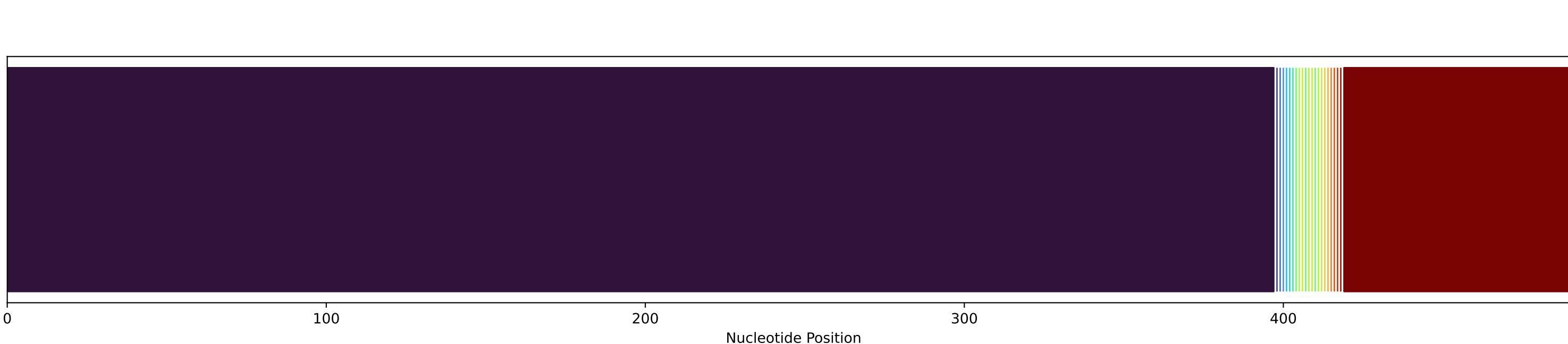
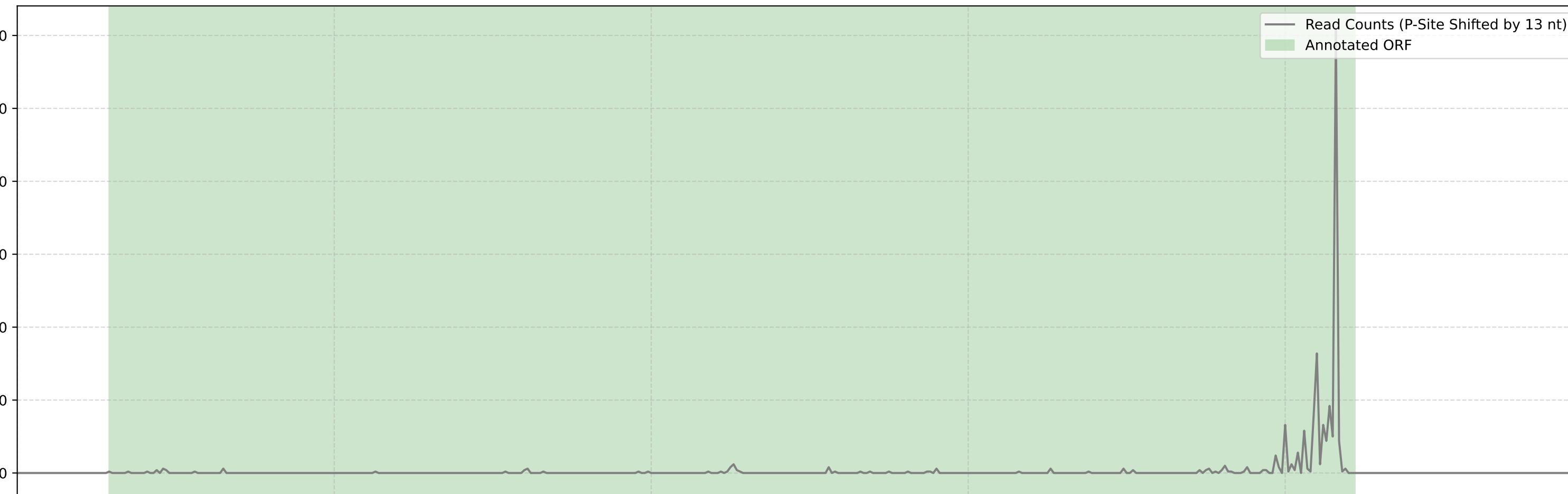


5'UTR
Pre-INIT-1
Pre-INIT-2
Pre-INIT-3
INIT
Post-INIT-1
Post-INIT-2
T1
T2
T3
Pre-TERM-1
Pre-TERM-2
Pre-TERM-3
TERM
Post-TERM-1
Post-TERM-2
3'UTR

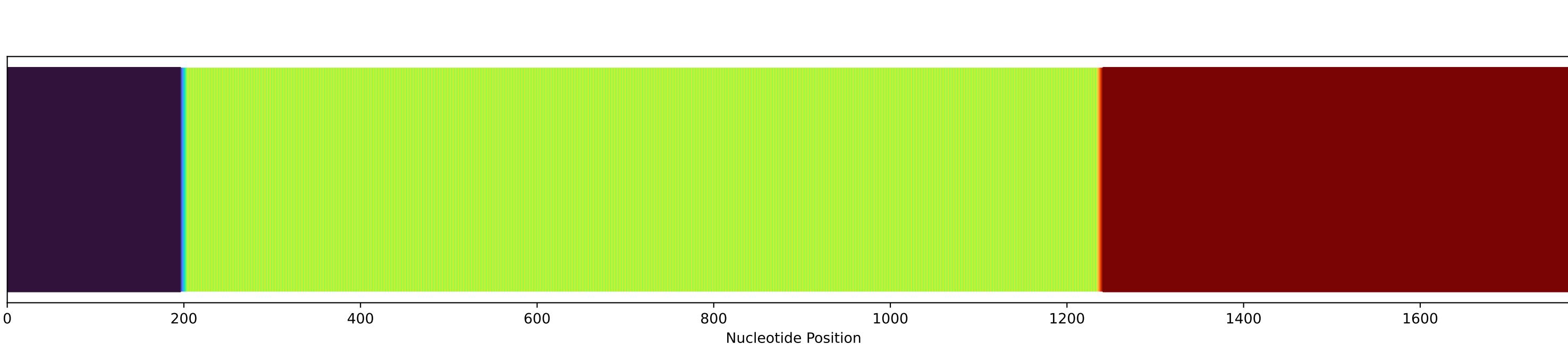
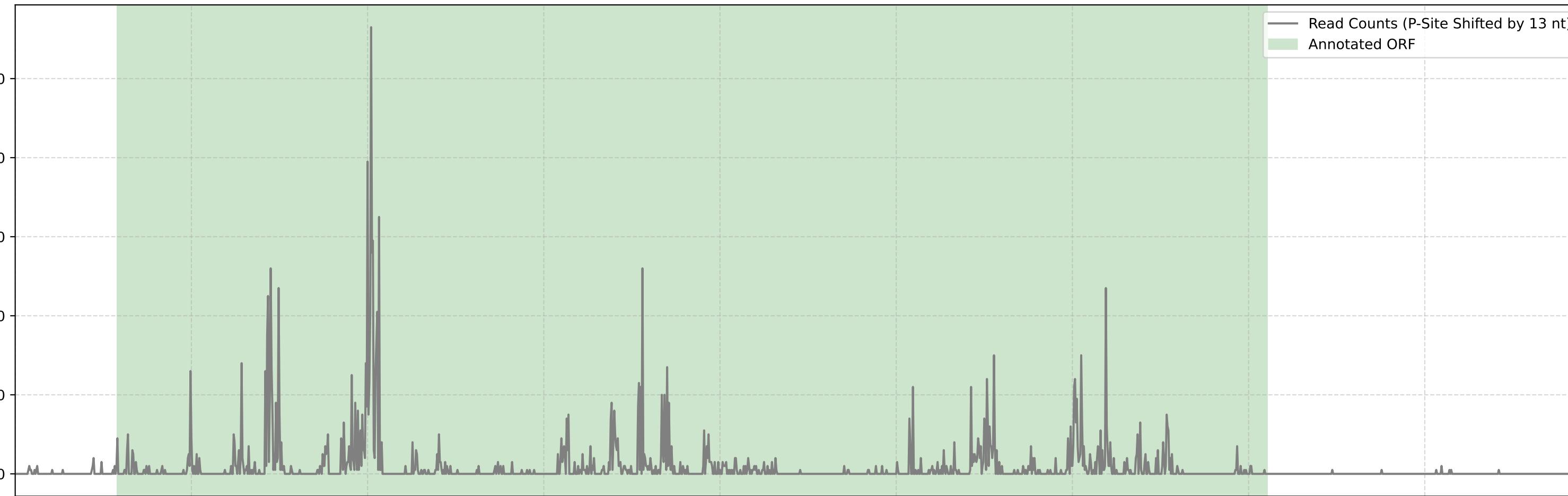
Example: 89th Percentile (by TPM) Transcript (ENST00000374517.6)
Total Reads: 1,138 | TPM: 4712.07



Example: 90th Percentile (by TPM) Transcript (ENST00000359193.4)
Total Reads: 780 | TPM: 4828.19

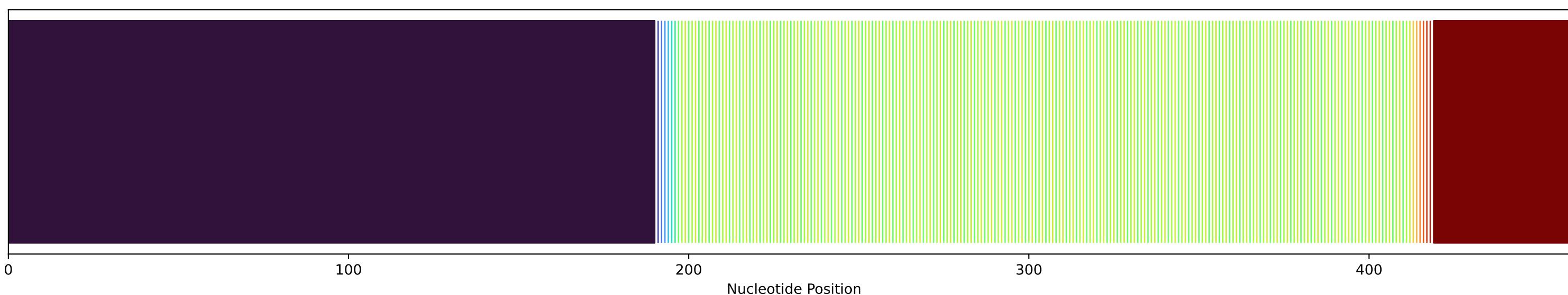
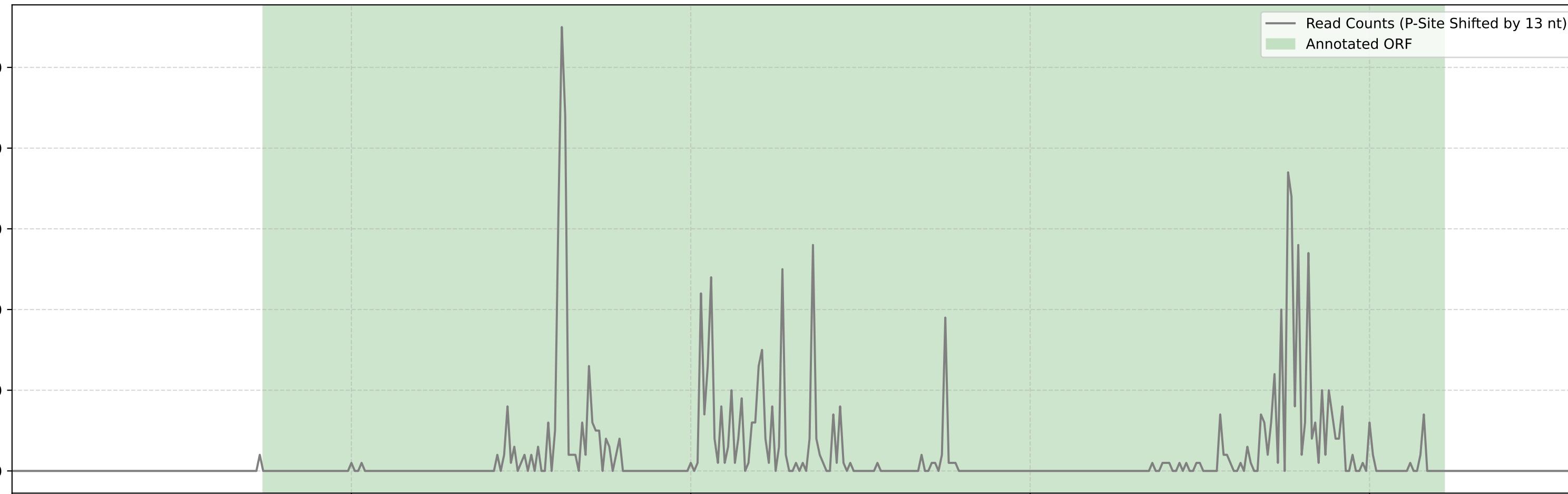


Example: 91th Percentile (by TPM) Transcript (ENST00000234590.10)
Total Reads: 2,963 | TPM: 5076.97

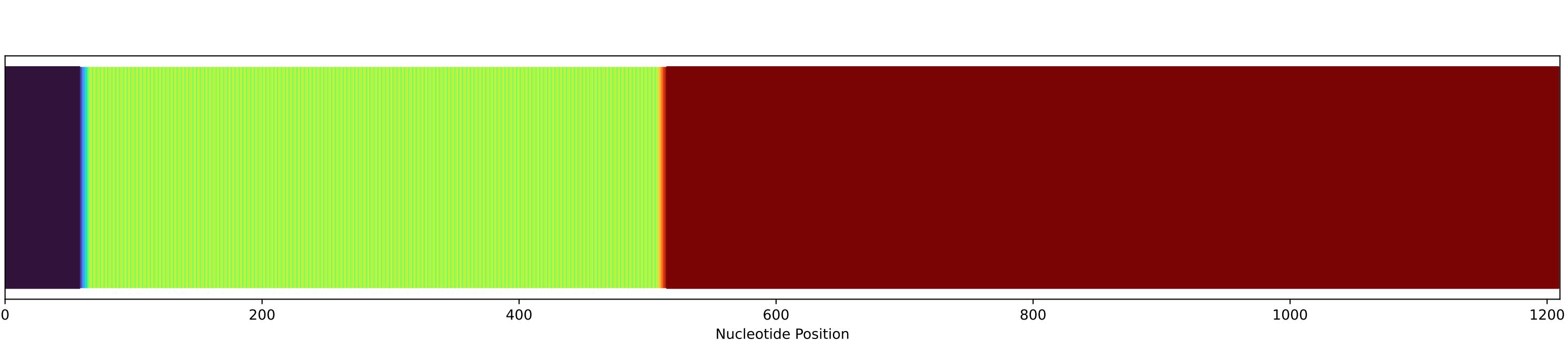
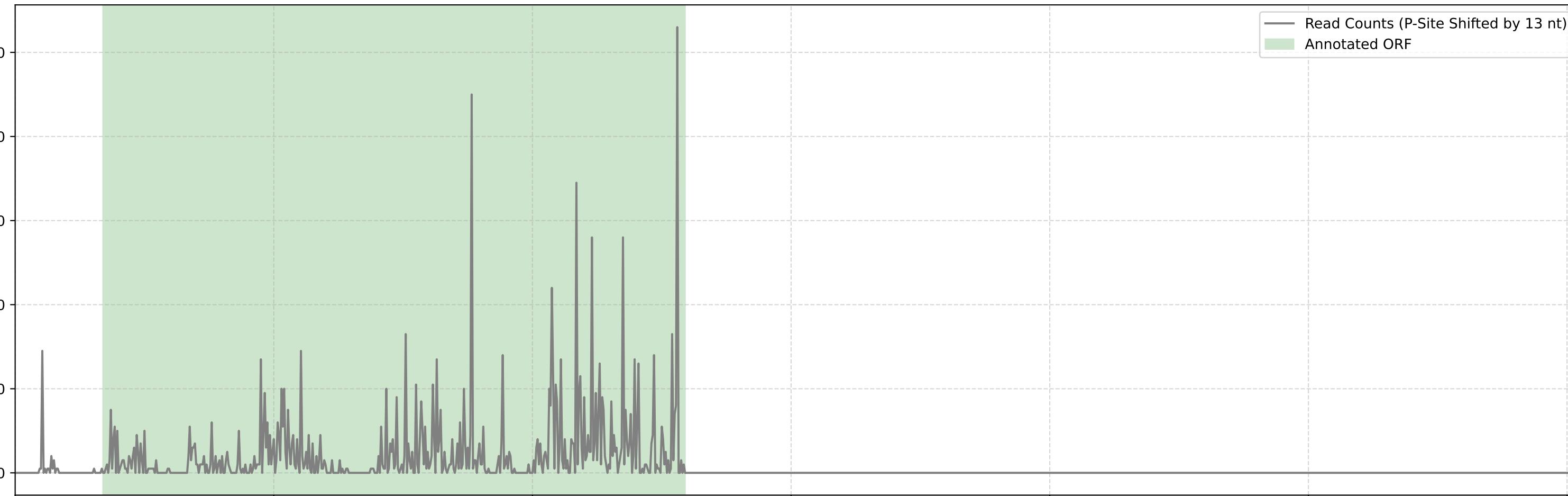


- 5'UTR
- Pre-INIT-1
- Pre-INIT-2
- Pre-INIT-3
- INIT
- Post-INIT-1
- Post-INIT-2
- T1
- T2
- T3
- Pre-TERM-1
- Pre-TERM-2
- Pre-TERM-3
- TERM
- Post-TERM-1
- Post-TERM-2
- 3'UTR

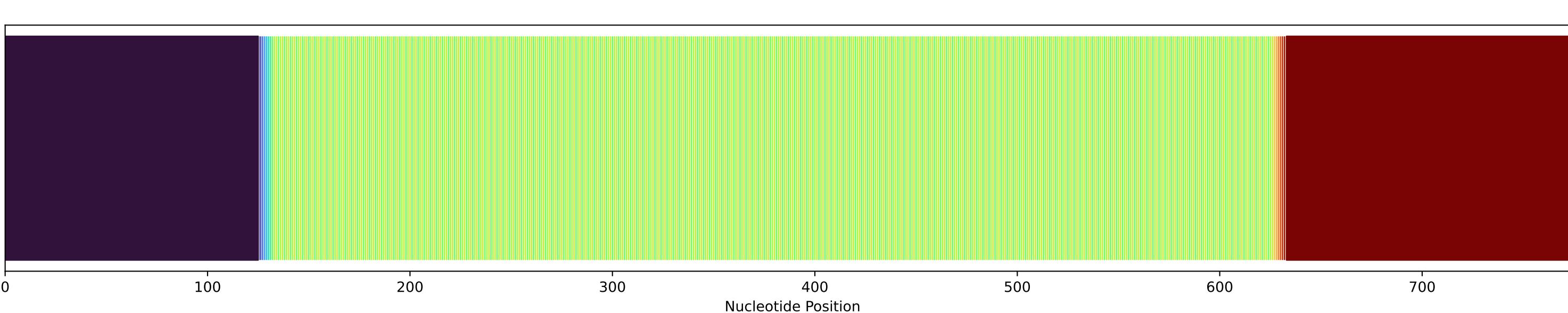
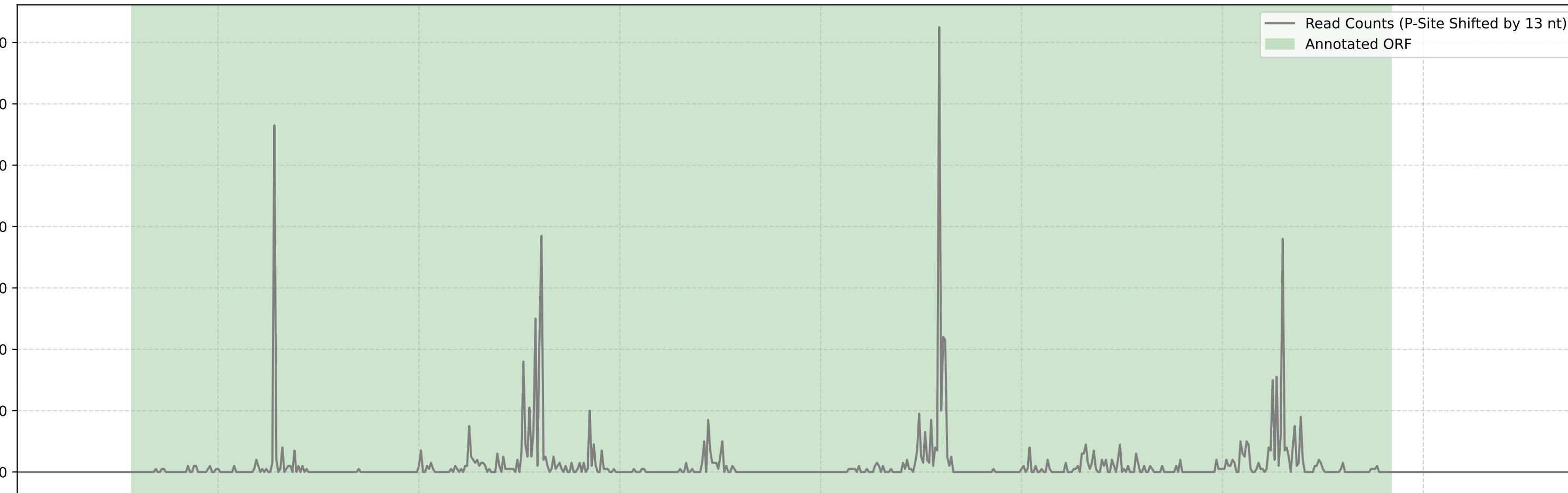
Example: 92th Percentile (by TPM) Transcript (ENST00000321153.9)
Total Reads: 805 | TPM: 5317.30



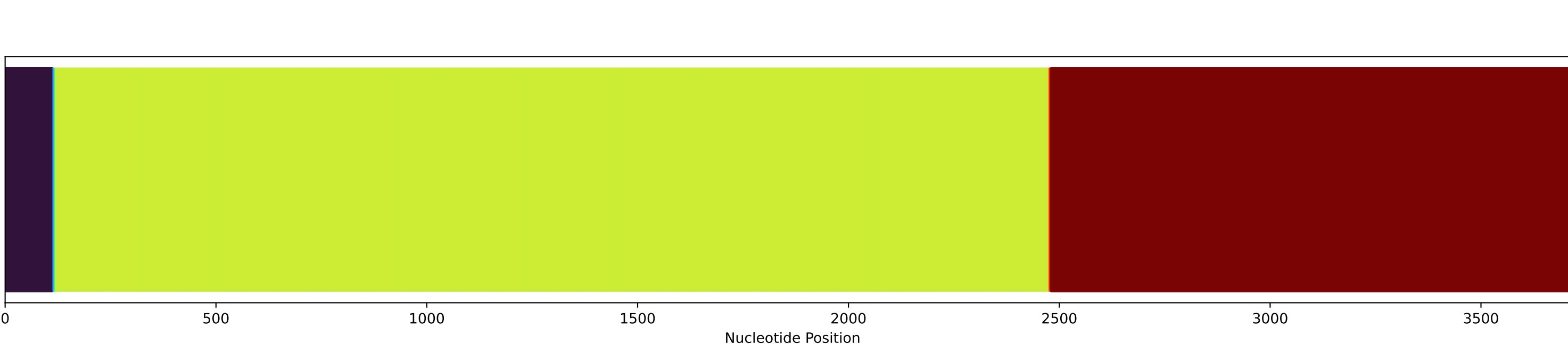
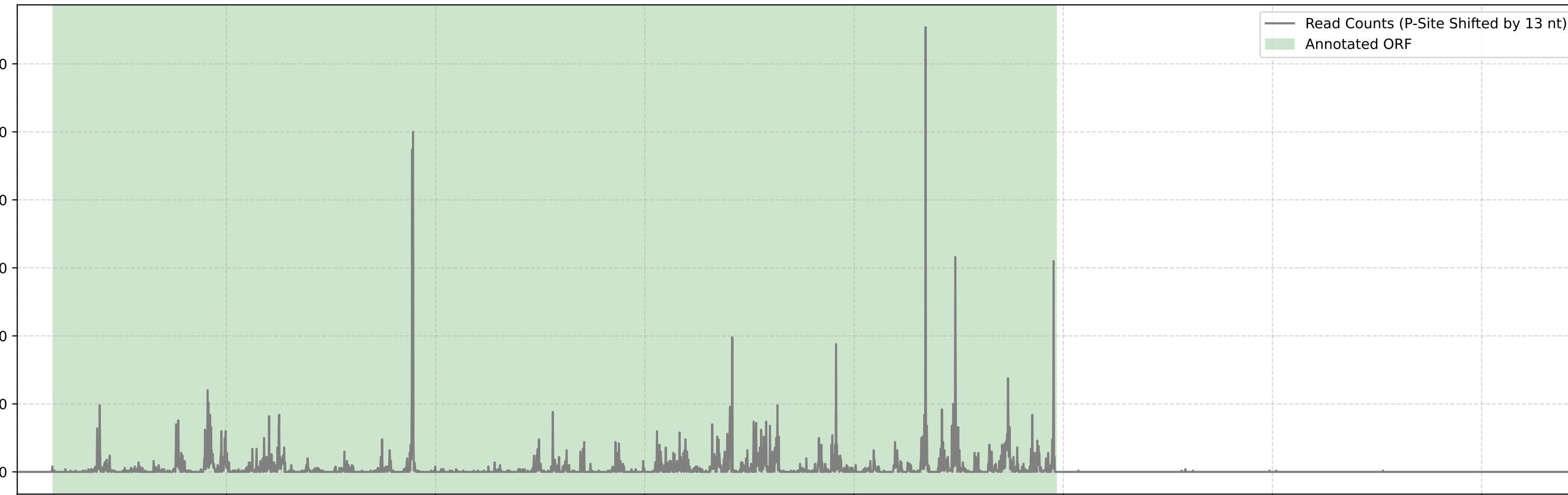
Example: 93th Percentile (by TPM) Transcript (ENST00000272298.12)
Total Reads: 2,282 | TPM: 5755.29



Example: 94th Percentile (by TPM) Transcript (ENST00000396651.8)
Total Reads: 1,517 | TPM: 5950.35

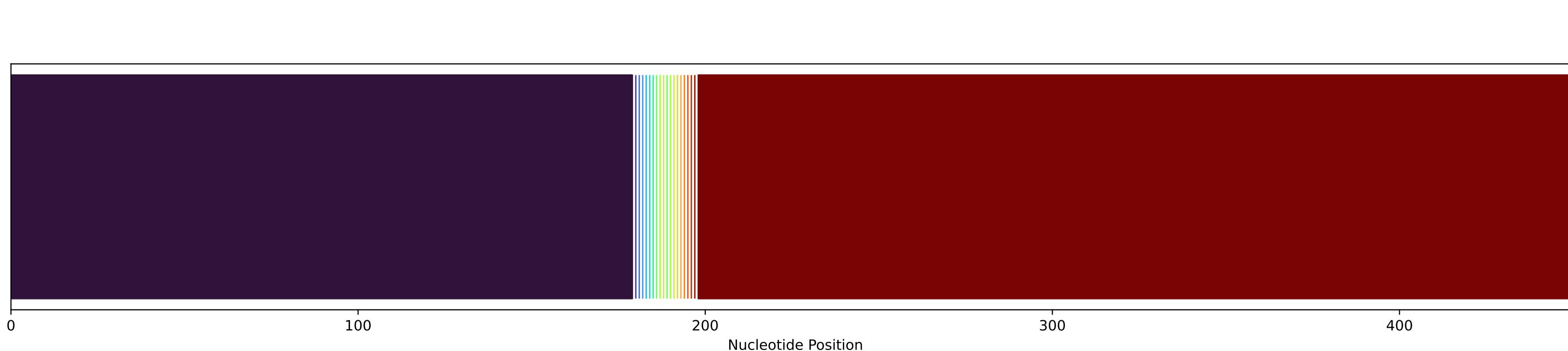
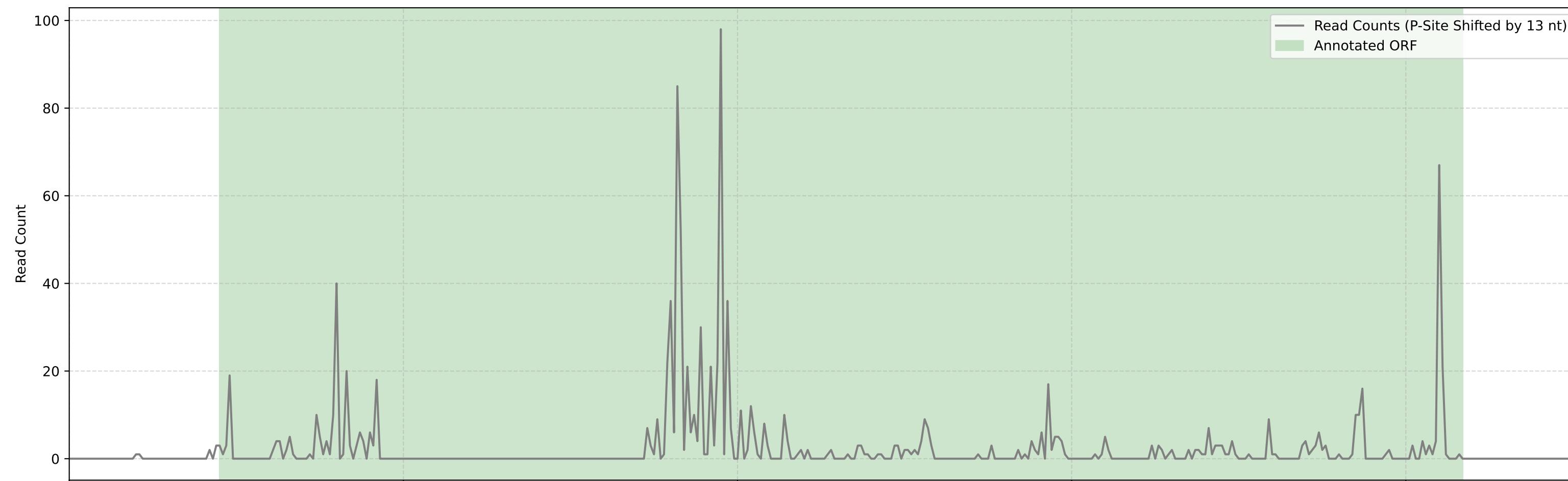


Example: 95th Percentile (by TPM) Transcript (ENST00000302278.8)
Total Reads: 8,123 | TPM: 6636.86

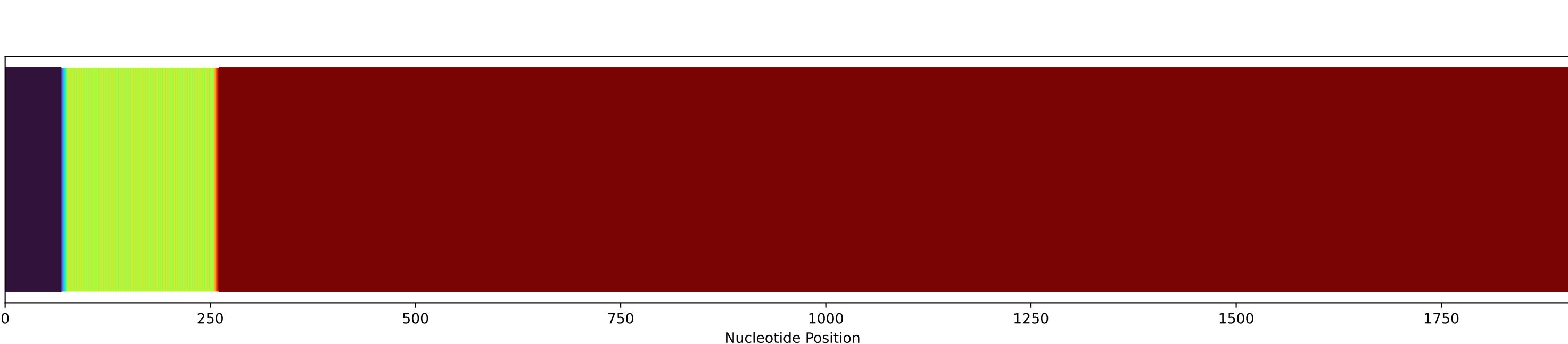
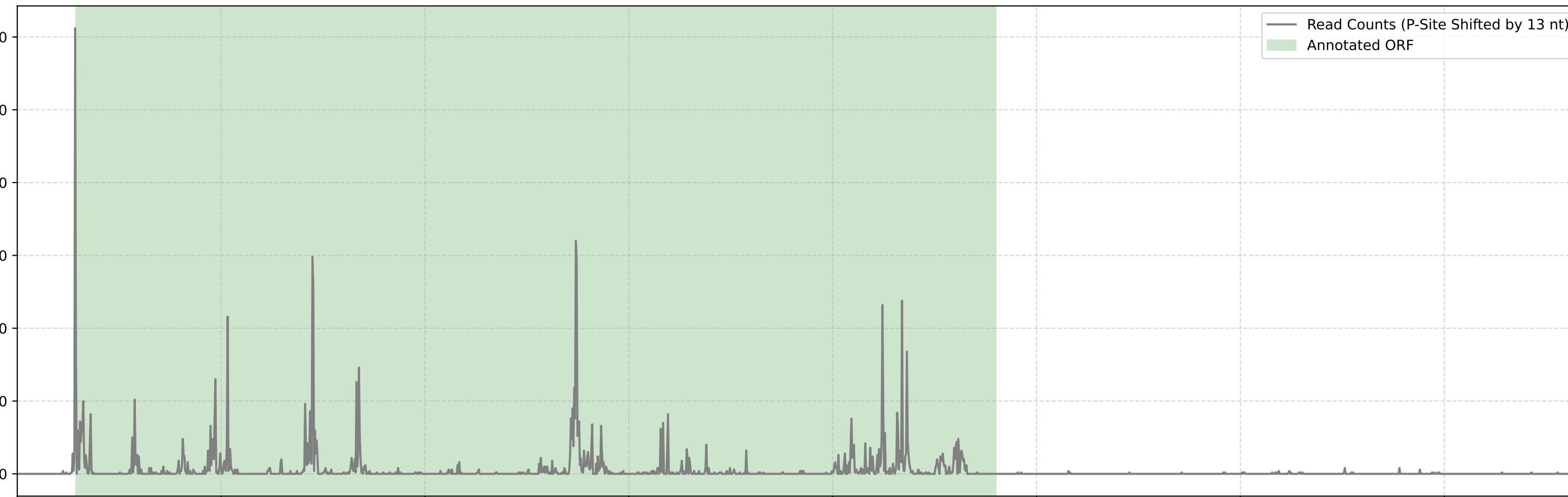


5'UTR
Pre-INIT-1
Pre-INIT-2
Pre-INIT-3
INIT
Post-INIT-1
Post-INIT-2
T1
T2
T3
Pre-TERM-1
Pre-TERM-2
Pre-TERM-3
TERM
Post-TERM-1
Post-TERM-2
3'UTR

Example: 96th Percentile (by TPM) Transcript (ENST00000348462.6)
Total Reads: 1,074 | TPM: 7251.08

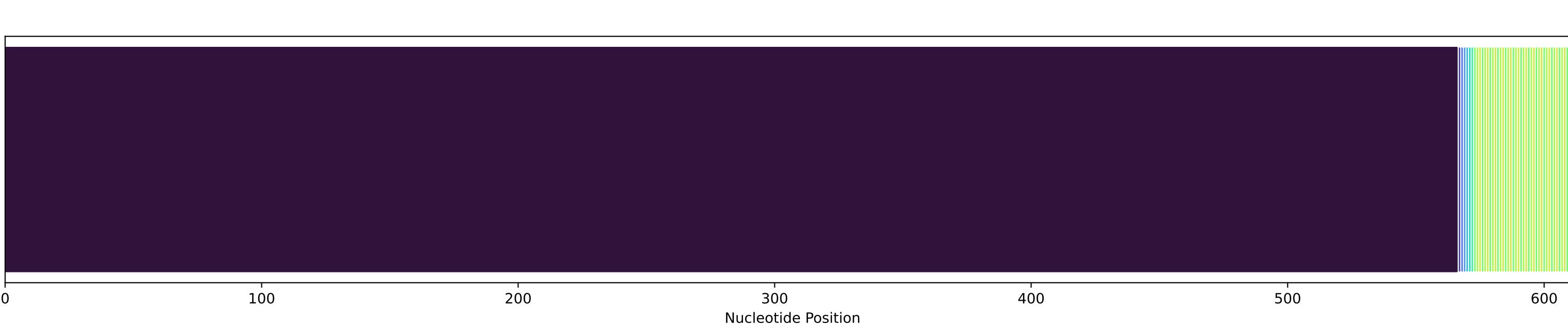
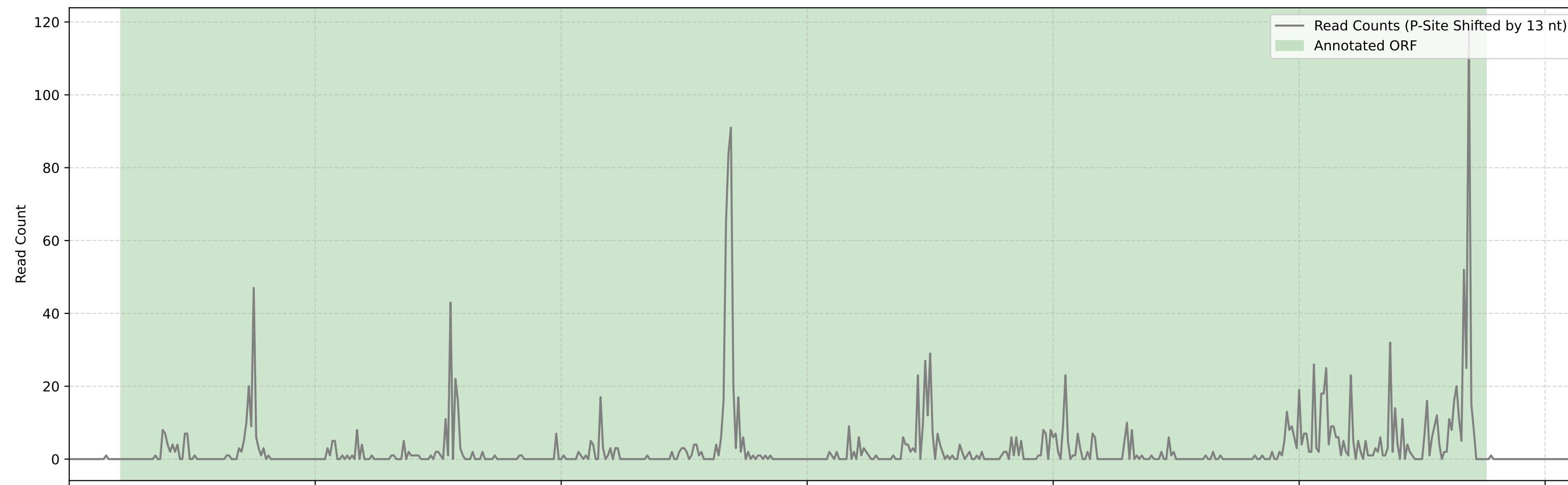


Example: 97th Percentile (by TPM) Transcript (ENST00000573283.7)
Total Reads: 4,918 | TPM: 7820.79

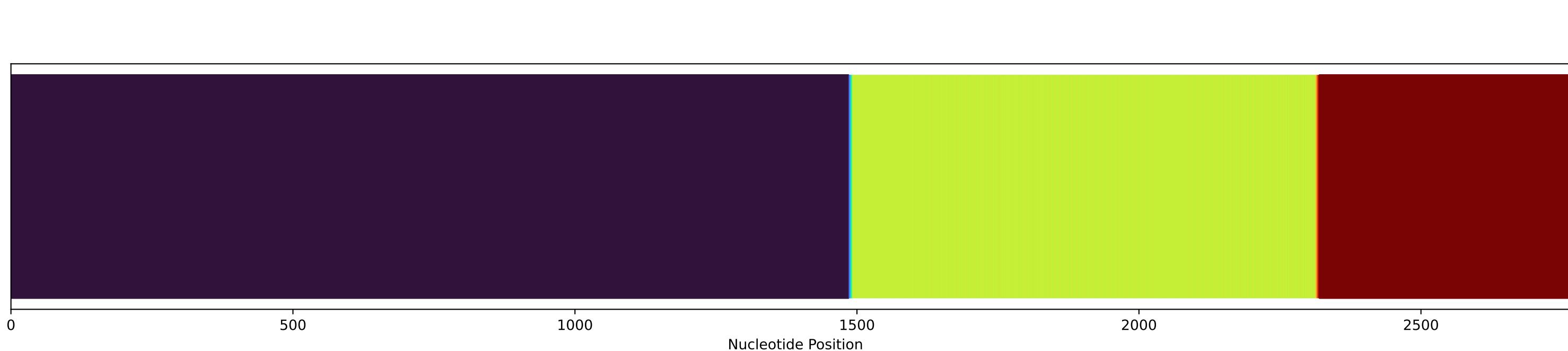
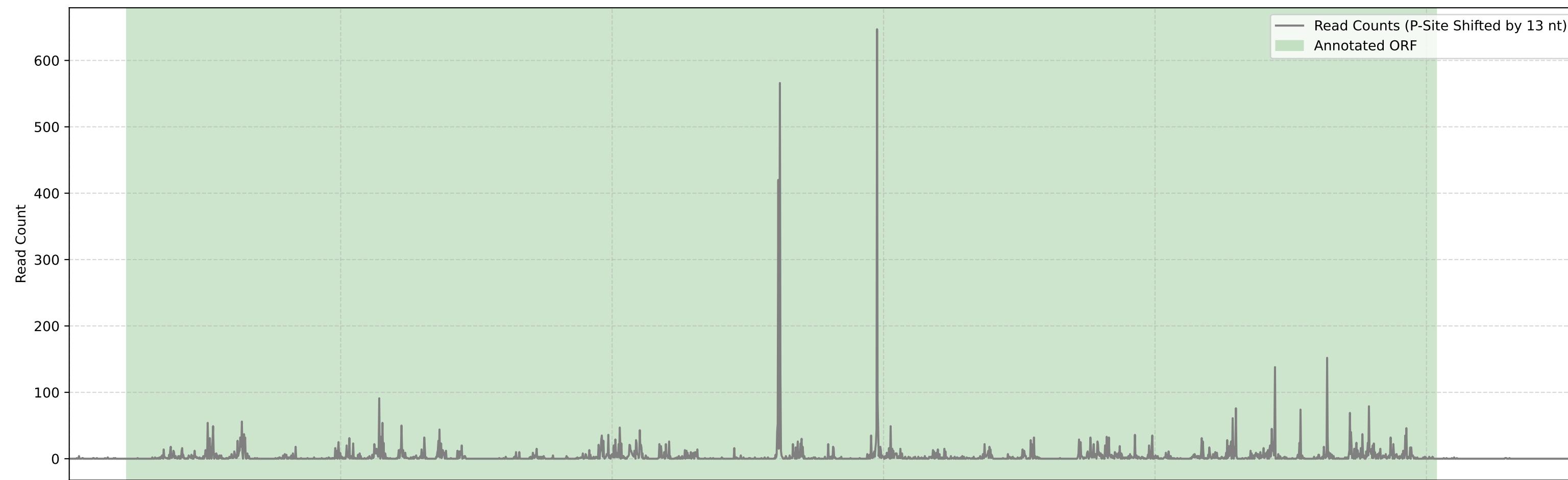


5'UTR
Pre-INIT-1
Pre-INIT-2
Pre-INIT-3
INIT
Post-INIT-1
Post-INIT-2
T1
T2
T3
Pre-TERM-1
Pre-TERM-2
Pre-TERM-3
TERM
Post-TERM-1
Post-TERM-2
3'UTR

Example: 98th Percentile (by TPM) Transcript (ENST00000580261.6)
Total Reads: 1,771 | TPM: 8802.12



Example: 99th Percentile (by TPM) Transcript (ENST00000299767.10)
Total Reads: 10,391 | TPM: 11398.22



Example: Max Expression Transcript (ENST00000451311.7)
Total Reads: 6,432 | TPM: 31556.77

