

Supplementary Table S1. Hyperparameter search space used for optimizing DNN, CNN, LSTM, and GRU models using Keras Tuner (200 trials per model).

Model	Hyperparameter	Search Space / Values
Common to All Models	Learning Rate	{1e-2, 5e-3, 1e-3, 5e-4, 1e-4}
	Optimizer	{Adam, RMSprop, SGD}
	Dropout Rate	Continuous uniform: 0.1–0.5 with step of 0.05
	L2 Regularization	Log-uniform: 1e-5 – 1e-2
	Batch Size	{16, 32, 64}
	Epochs (per trial)	Fixed: 200 (early stopping enabled)
DNN	Number of Dense Layers	{1 - 4}
	Units per Layer	{ 32 – 256, with step 0f 32}
	Activation	{ReLU, tanh}
CNN	Number of Conv Layers	{1 - 4}
	Filters	{16 – 256, with step of 16}
	Kernel Size	{3, 5, 7}
	Pooling Type	{MaxPooling, AveragePooling}
	Dense Layer Size	{ 32 – 256, with step 0f 32}
LSTM	Number of LSTM Layers	{1 - 4}
	LSTM Units	{ 32 – 256, with step 0f 32}
	Return Sequences	{True, False}
	Bi-directionality	{Yes, No}
GRU	Number of GRU Layers	{1 - 4}
	GRU Units	{ 32 – 256, with step 0f 32}
	Return Sequences	{True, False}
	Bi-directionality	{Yes, No}

Supplementary Table S2. Best hyperparameter configurations selected by Keras Tuner (200 trials per model). These configurations were used for the final 10-fold cross-validation experiments reported in Table 5.

Model	Hyperparameter	Optimal Value (Best Trial)
DNN	Number of Dense Layers	2
	Units per Dense Layer	192, 224
	Activation Function	ReLU
	Dropout Rate	0.5
	L2 Regularization	6.44×10^{-4}
	Optimizer	Adam
	Learning Rate	5×10^{-4}
CNN	Number of Convolutional Layers	4
	Filters per Layer	176, 96, 48, 96
	Kernel Sizes	3, 5, 3, 3
	Pooling Type	Avg
	Dropout Rate	0.5
	L2 Regularization	2.58×10^{-5}
	Dense Layer Size	96
	Optimizer	Adam
LSTM	Learning Rate	5×10^{-4}
	Number of LSTM Layers	2
	Units per LSTM Layer	256, 96
	Return Sequences	True (layer 1), False (layer 2)
	Bidirectional Layer	Yes
	Dropout Rate	0.25
	L2 Regularization	1.33×10^{-5}
	Optimizer	Adam
GRU	Learning Rate	5×10^{-4}
	Number of GRU Layers	3
	Units per GRU Layer	64, 128, 256
	Return Sequences	True (layer 1), False (layer 2)
	Bidirectional Layer	No
	Dropout Rate	0.10
GRU	L2 Regularization	5.01×10^{-5}

Optimizer	RMSprop
Learning Rate	1×10^{-2}

Supplementary Table S3. Ten-fold cross-validation metrics and McNemar test results for all models

Measure	CNN	LSTM	GRU	DNN
Training Time (sec)	67.9432	85.0876	114.2525	47.4344
ACC (Mean $\pm$ Std)	0.9418 ± 0.0174	0.9192 ± 0.0368	0.9207 ± 0.0265	0.9162 ± 0.0190
Sensitivity (Mean $\pm$ Std)	0.8882 ± 0.0403	0.8519 ± 0.0632	0.8504 ± 0.0536	0.8640 ± 0.0488
Specificity (Mean $\pm$ Std)	0.9864 ± 0.0195	0.9864 ± 0.0149	0.9909 ± 0.0106	0.9683 ± 0.0206
F1 Score (Mean $\pm$ Std)	0.9387 ± 0.0198	0.9123 ± 0.0423	0.9139 ± 0.0312	0.9109 ± 0.0229
MCC (Mean $\pm$ Std)	0.8799 ± 0.0316	0.8468 ± 0.0682	0.8507 ± 0.0468	0.8383 ± 0.0335
AUC (Mean $\pm$ Std)	0.9758 ± 0.0118	0.9590 ± 0.0205	0.9535 ± 0.0191	0.9463 ± 0.0254
PR-AUC (Mean $\pm$ Std)	0.9806 ± 0.0089	0.9691 ± 0.0148	0.9670 ± 0.0133	0.9612 ± 0.0152
TP (Sum)	588	564	563	572
TN (Sum)	653	653	656	641
FP (Sum)	9	9	6	21
FN (Sum)	74	98	99	90
N (Total)	1324	1324	1324	1324
McNemar b	Ref	43	39	50
McNemar c	Ref	19	17	22
McNemar n	Ref	62	56	72
McNemar p	Ref	3.20×10^{-3}	4.60×10^{-3}	1.30×10^{-3}

Training Time (sec) represents the wall-clock time required to train each model. ACC (Mean $\pm$ SD), Sensitivity (Mean $\pm$ SD), Specificity (Mean $\pm$ SD), F1 Score (Mean $\pm$ SD), MCC (Mean $\pm$ SD), AUC (Mean $\pm$ SD), and PR-AUC (Mean $\pm$ SD) denote the mean and standard deviation of each metric across the 10 cross-validation folds. Sensitivity is defined as $TP/(TP+FN)$ and specificity as $TN/(TN+FP)$. MCC reflects balanced predictive correlation, whereas AUC and PR-AUC quantify discrimination under ROC and precision–recall curves, respectively. TP, TN, FP, and FN indicate the total counts of true positives, true negatives, false positives, and false negatives aggregated across all folds; N refers to the total number of predictions. McNemar’s b, c, n, and p correspond to the pairwise McNemar comparison against the CNN model, where b = cases correct by CNN but incorrect by the comparator, c = cases incorrect by CNN but correct by the comparator, n = b+c, and p = the exact McNemar p-value. All metrics are computed across 10 folds to assess performance stability, class-wise behavior, and statistical agreement among models.

Supplementary Table S4. Comparative performance analysis of single and multi-feature representations for 5hmC site prediction.

Feature Set	Dim	ACC (mean $\pm$ SD)	Prec (mean $\pm$ SD)	Sens (mean $\pm$ SD)	Spec (mean $\pm$ SD)	MCC (mean $\pm$ SD)	F1 (mean $\pm$ SD)
PSTNPV	39	0.918 ± 0.019	0.938 ± 0.024	0.899 ± 0.060	0.938 ± 0.027	0.840 ± 0.032	0.916 ± 0.024
NoDV	84	0.551 ± 0.031	0.578 ± 0.027	0.392 ± 0.205	0.710 ± 0.169	0.111 ± 0.056	0.433 ± 0.158
SEQMAT	90	0.536 ± 0.015	0.608 ± 0.111	0.482 ± 0.313	0.589 ± 0.313	0.109 ± 0.048	0.448 ± 0.197
Raw	90	0.585 ± 0.033	0.649 ± 0.096	0.535 ± 0.255	0.634 ± 0.280	0.198 ± 0.061	0.529 ± 0.136
Central	90	0.576 ± 0.020	0.618 ± 0.109	0.544 ± 0.196	0.608 ± 0.210	0.172 ± 0.056	0.543 ± 0.097
Hahn	90	0.570 ± 0.022	0.561 ± 0.031	0.703 ± 0.176	0.437 ± 0.177	0.157 ± 0.046	0.610 ± 0.070
OneHot	164	0.542 ± 0.045	0.462 ± 0.235	0.371 ± 0.270	0.713 ± 0.225	0.092 ± 0.090	0.381 ± 0.238
APRIV	168	0.560 ± 0.045	0.578 ± 0.050	0.430 ± 0.209	0.690 ± 0.168	0.125 ± 0.089	0.457 ± 0.189
LRIM	180	0.548 ± 0.021	0.580 ± 0.092	0.609 ± 0.251	0.486 ± 0.293	0.123 ± 0.053	0.547 ± 0.106
TWO-FEATURE COMBINATIONS							
PSTNPV + NoDV	123	0.921 ± 0.016	0.922 ± 0.037	0.923 ± 0.018	0.920 ± 0.043	0.844 ± 0.032	0.922 ± 0.014
PSTNPV + SEQMAT	129	0.920 ± 0.020	0.924 ± 0.022	0.915 ± 0.028	0.925 ± 0.022	0.840 ± 0.040	0.919 ± 0.020
PSTNPV + Raw	129	0.927 ± 0.027	0.941 ± 0.038	0.912 ± 0.048	0.941 ± 0.039	0.856 ± 0.053	0.925 ± 0.029
PSTNPV + Central	129	0.926 ± 0.023	0.946 ± 0.034	0.905 ± 0.040	0.947 ± 0.034	0.854 ± 0.047	0.924 ± 0.025

PSTNPV + Hahn	129	0.924 ± 0.022	0.960 ± 0.031	0.888 ± 0.052	0.961 ± 0.033	0.854 ± 0.041	0.921 ± 0.025
NoDV + SEQMAT	174	0.541 ± 0.017	0.533 ± 0.018	0.716 ± 0.120	0.365 ± 0.141	0.091 ± 0.037	0.605 ± 0.036
NoDV + APRIV	252	0.548 ± 0.036	0.549 ± 0.034	0.454 ± 0.273	0.641 ± 0.228	0.099 ± 0.073	0.442 ± 0.228
SEQMAT + APRIV	258	0.541 ± 0.016	0.541 ± 0.023	0.579 ± 0.125	0.503 ± 0.124	0.085 ± 0.034	0.550 ± 0.063
NoDV + LRIM	264	0.545 ± 0.017	0.544 ± 0.025	0.720 ± 0.303	0.370 ± 0.278	0.123 ± 0.042	0.568 ± 0.184
SEQMAT + LRIM	270	0.560 ± 0.020	0.578 ± 0.057	0.553 ± 0.140	0.568 ± 0.173	0.129 ± 0.047	0.547 ± 0.061
LRIM + APRIV	348	0.536 ± 0.023	0.580 ± 0.098	0.636 ± 0.325	0.435 ± 0.340	0.093 ± 0.051	0.523 ± 0.197
PSTNPV + Raw	129	0.927 ± 0.027	0.941 ± 0.038	0.912 ± 0.048	0.941 ± 0.039	0.856 ± 0.053	0.925 ± 0.029
PSTNPV + Central	129	0.926 ± 0.023	0.946 ± 0.034	0.905 ± 0.040	0.947 ± 0.034	0.854 ± 0.047	0.924 ± 0.025
PSTNPV + Hahn	129	0.924 ± 0.022	0.960 ± 0.031	0.888 ± 0.052	0.961 ± 0.033	0.854 ± 0.041	0.921 ± 0.025
THREE-FEATURE COMBINATIONS							
PSTNPV + NoDV + SEQMAT	213	0.921 ± 0.019	0.924 ± 0.041	0.920 ± 0.015	0.921 ± 0.046	0.843 ± 0.039	0.921 ± 0.017
PSTNPV + NoDV + APRIV	291	0.922 ± 0.018	0.923 ± 0.014	0.921 ± 0.034	0.923 ± 0.015	0.845 ± 0.035	0.922 ± 0.019
PSTNPV + NoDV + LRIM	303	0.916 ± 0.015	0.930 ± 0.022	0.900 ± 0.015	0.932 ± 0.022	0.833 ± 0.031	0.915 ± 0.015
PSTNPV + SEQMAT + APRIV	297	0.922 ± 0.016	0.926 ± 0.025	0.918 ± 0.036	0.926 ± 0.027	0.846 ± 0.033	0.922 ± 0.017
PSTNPV + SEQMAT + LRIM	309	0.916 ± 0.019	0.938 ± 0.018	0.891 ± 0.034	0.941 ± 0.018	0.834 ± 0.038	0.914 ± 0.022
NoDV + SEQMAT + APRIV	342	0.535 ± 0.016	0.544 ± 0.026	0.561 ± 0.214	0.510 ± 0.241	0.077 ± 0.027	0.529 ± 0.084
NoDV + SEQMAT + LRIM	354	0.570 ± 0.015	0.626 ± 0.082	0.476 ± 0.229	0.664 ± 0.241	0.169 ± 0.048	0.498 ± 0.108
NoDV + LRIM + APRIV	432	0.554 ± 0.024	0.566 ± 0.026	0.561 ± 0.269	0.545 ± 0.255	0.122 ± 0.037	0.517 ± 0.170
SEQMAT + LRIM + APRIV	438	0.545 ± 0.023	0.609 ± 0.125	0.417 ± 0.284	0.674 ± 0.243	0.114 ± 0.053	0.413 ± 0.219
FOUR-FEATURE COMBINATIONS							
PSTNPV + NoDV + SEQMAT + LRIM	393	0.918 ± 0.020	0.924 ± 0.030	0.912 ± 0.029	0.925 ± 0.031	0.838 ± 0.041	0.918 ± 0.020
PSTNPV + NoDV + SEQMAT + APRIV	381	0.922 ± 0.019	0.912 ± 0.037	0.937 ± 0.018	0.908 ± 0.042	0.846 ± 0.036	0.924 ± 0.017
PSTNPV + NoDV + LRIM + APRIV	471	0.912 ± 0.016	0.939 ± 0.030	0.884 ± 0.022	0.941 ± 0.030	0.827 ± 0.033	0.910 ± 0.016
PSTNPV + SEQMAT + LRIM + APRIV	477	0.784 ± 0.147	0.797 ± 0.137	0.752 ± 0.208	0.816 ± 0.141	0.572 ± 0.289	0.765 ± 0.177
NoDV + SEQMAT + LRIM + APRIV	522	0.554 ± 0.023	0.606 ± 0.064	0.376 ± 0.222	0.732 ± 0.213	0.130 ± 0.055	0.427 ± 0.127
PSTNPV + Raw + Central + Hahn	309	0.867 ± 0.123	0.875 ± 0.122	0.852 ± 0.148	0.882 ± 0.107	0.736 ± 0.246	0.862 ± 0.132

FIVE-FEATURE COMBINATION (MAXIMUM SET)

PSTNPV + NoDV + SEQMAT + LRIM + APRIV	561	0.928 ± 0.022	0.916 ± 0.034	0.944 ± 0.035	0.912 ± 0.038	0.858 ± 0.045	0.929 ± 0.022
--	-----	---------------	---------------	---------------	---------------	---------------	---------------

Supplementary Table S5. Results demonstrating the probabilities (Original Proba / Original Class) with original sequence and probabilities after k-mer shuffling of sequence (Shuffled Proba / Shuffled Class)

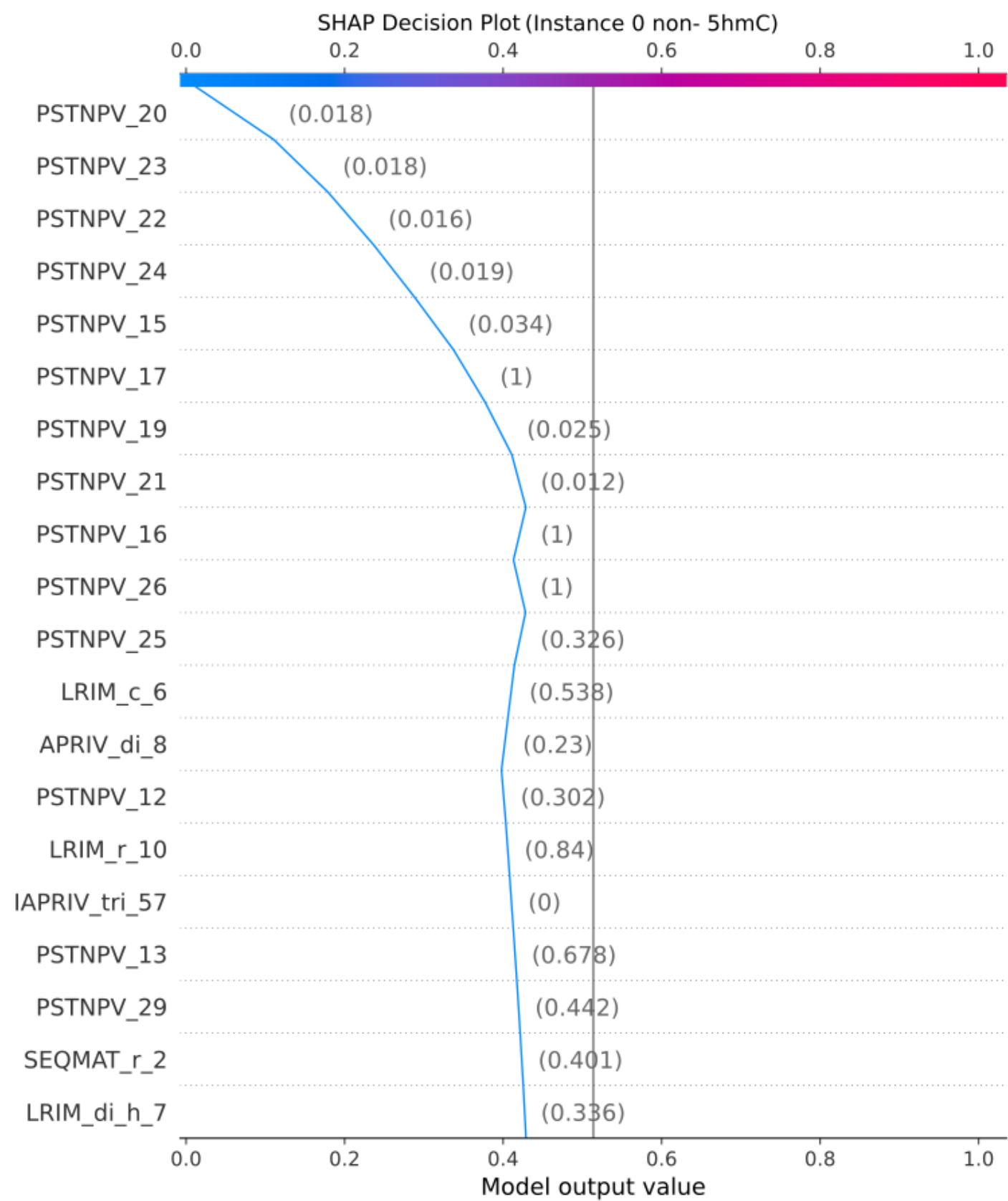
Seq ID	Original Sequence	True Label	Original Proba	Original Class	K	Shuffled Sequences	Shuffled Proba	Shuffled Class
pos_7	CAAUGGAACCCUGGGAAGGACGUC CUGUAUCUCAACCUAAA	1	0.8135	5hmC	3	CUGCUAGUCGACAAAACAAGAACU AUCCUGGGCAAUGGCUC	0.9826	5hmC
pos_15	CUUUGCCAAUGAAGGGAUUUCUUG GCACUUUAUACCCCGU	1	0.9829	5hmC	3	CAAGAUUUGCUUUUACCCAGGCC GCAUAUUGAUGCGUCUU	0.1503	Non-5hmC
pos_22	CACAUCACCCAAUAUUUUACGAC AUUAUGACCAGGGA	1	0.6696	5hmC	3	GACAUUCAAAGGACCAAUUCGAAU UUUACACCCACAUAUUG	0.7515	5hmC
pos_25	AGACCAACGUUCGACACCUGG AGCAAUCGAUGUCAUUG	1	0.9065	5hmC	3	ACCUGAACUGUGUUAGCCGAUGGA GACUGAAUCAUCACCCC	0.9547	5hmC
pos_26	AGACUGAGAAUGAACUCUGCUUC AUUUUCGCCUGCUGACG	1	0.4419	Non-5hmC	3	AACAUUUGCAGAUUCUGAAGACUG AUGUGCCUCUUCGCCCG	0.4569	Non-5hmC
pos_37	GAAAAUCAUAUCAAUUGACGAA AACAACCAAAAUUACA	1	0.9613	5hmC	3	CAAGAAUAUAACUAAAUAACCAA AUUGAACAAGACAAUCA	0.9134	5hmC
pos_43	CUGUUGUCGCAAGGAAGUACAUA GAUCCUUAUAGCCAC	1	0.7024	5hmC	3	CUGUACAAGUUGGAGGCCACAUAU UACAAGAAUCGUUAUCC	0.9872	5hmC
pos_64	UUAGAGUUAGAGAACUCUCUUU GAUACAUAUACAUGAUU	1	0.9210	5hmC	3	AUUUAAGAAUUGAGUACUUAUCUC CCUACAGAGUUAUGAUU	0.8555	5hmC
pos_71	CAUGGUUCAUGAUUACAGGCCUUA AAUCCCAAGUCUUUUAG	1	0.9120	5hmC	3	CAUGGUUCUAAUAGCCCCAGUGAU UUUUACAUAUAAAGGCC	0.8900	5hmC
pos_72	AAACAGACGGUACCCCUUAGCCGC UAUUGAAUAUCCAUAUCA	1	0.9514	5hmC	3	AUACCCACAGUCCAAUAAACGCU AUACGGUACUUAAGCUGA	0.4938	Non-5hmC
pos_86	CAUCGAUCAGUGGAAACCGCGAA GAGGUAUUGCUAUUGCA	1	0.9799	5hmC	3	CACAAAACAUCGAAAGUGGAGAGC UAUCGGUACGCUUGUUG	0.0685	Non-5hmC
pos_126	GUAGAGAAUACAUUGAAUUCUUG GGGGCCAGAGACUGCUA	1	0.9750	5hmC	3	UUGUUCGCCUGCACAAUGUAAAA UUGGGGUAGAGGACAGA	0.2105	Non-5hmC
pos_129	UAAGGGACAAGAAUUUUUGCGGA UCCCCACGCGUUGAUG	1	0.9274	5hmC	3	UGAAGAUAAAGGACCCUUUUGCGGG ACGACAUCCAUUUGCGU	0.6320	5hmC
pos_141	GAAAUAGCUAUCUGCAGCAGCAAC UGGGAGGAGGAUCUACC	1	0.9999	5hmC	3	AUAAUCGAGUGCCCAGCGAGAACA GCGAAGAUUGGGCUCUA	0.9679	5hmC
pos_144	AGAAGAAGGCCAAGAGGAUCGUG AAAAAAAGGAAAGAGAA	1	0.9950	5hmC	3	AGAGAGAAGAUCAAAGGAAAAGGA GGGUGAAAAGAAAACCC	0.8118	5hmC
pos_155	AAUAUCAUUUACUCAAAACACCCA GGUUGACAAGGAGCAU	1	1.0000	5hmC	3	AUCAUUCCAAUUGCAUGACAAAAA CACUCAUUGGAGGUUAC	0.2141	Non-5hmC
pos_166	UCAUCGCCGGCCUCCGUUCCUUU UCAUCUUAUUGGAGCC	1	1.0000	5hmC	3	UUUCCGUCCCGAGUCCUUGUCAG CCUCAUCUUCAGCUUCG	0.6202	5hmC
pos_178	AAACAUUUUUUUUGUAAUACUGC AUUUCGCGUGAUAAUUG	1	1.0000	5hmC	3	AUUAAUAAAUCGUACCGUGAUUGC UUGUUUAUUAUUAUUG	0.4377	Non-5hmC
pos_196	UCUCGUAAUCUCCACUAUACAG AUCGUUUUUCCCAUCUG	1	1.0000	5hmC	3	GCUCCAAACUCUACGAUCCCCUA UGUUUCGUUCUAUCAUC	0.9595	5hmC
pos_209	AGUCCCAGCAUUGCGAAGUUCGAG GCGUUCAGGCCGUUCUC	1	0.9985	5hmC	3	AGCUCAGGUUCGAGGCGUUCGCGA UUCCCAAGCCGUUCAGU	0.7960	5hmC
pos_215	UCUCUCUGUGCAGGCGGGCACAUU CACUGUGGGGCUGAAAA	1	0.9743	5hmC	3	UGUUGUGCUCACAAGGGUCUGGGC ACGAACUCGCAAUUGGC	0.5061	5hmC
pos_235	GACGAUGGAACGGCACAGAUCUUA AAUUGUUUAUAGCAACC	1	1.0000	5hmC	3	GCACCAUACAGUUAUGUGAUGACC AAACGUAGCUUAUCGGA	0.1318	Non-5hmC
pos_252	CGCAUCCUCUUCUCCAAUUGCAGC CCCUACAACUAAACCCUG	1	1.0000	5hmC	3	UACAAUACCUGCGCAUCAACUUC UCAGCCCCUAAUGCUCC	0.4774	Non-5hmC
pos_254	CACCCAGAAGUGGUGGUGGCCAA GUUCGGCAAGGAAACUU	1	0.9996	5hmC	3	GUGCAAGGUCCAGGCGCUAACGAA GGAGUUAACGGUUCAC	0.6208	5hmC
pos_264	GGAAGAGAGCCGAAAGACCCCAU ACAUUAUAGUUCUAAAU	1	0.9111	5hmC	3	UCUAGAAUGAGACACAUAGAGGAA ACUAUAGACCCCCAGU	0.8160	5hmC
pos_276	GAUGAGAAUCCACUUAACGCCUC AAUAGUGGGGAUUCUCA	1	0.9985	5hmC	3	AGUAUGAGCACUCAAUUCCAAUG CCCUUCAAACGAUGGG	0.8254	5hmC
pos_279	AUUAGGGUGUAUCUAAAGAUCUAC UAGGGUGACCCUAAAGGA	1	0.9934	5hmC	3	AUCAAGGAAAGUAGGUGCUUAUUG ACAGGCCUGGUUACAUU	0.2921	Non-5hmC
pos_281	CCGGCCCAUAUCGAAGGGUUCGUA GAUGAGACAUUGCGGC	1	1.0000	5hmC	3	UUCGCCAUCGACAUUGAUGCCCG CGGAUGACAUGAAGGG	0.2100	Non-5hmC
pos_282	UGUUUUGCUUGGUGUAGGAACACA CGGUUGCCACCUGAUGC	1	1.0000	5hmC	3	UGUUGGAACAGGUUGGAUACACCA UGUGCUCGGCCUGCUUU	0.2173	Non-5hmC
pos_297	GUGGACAGGCGUGCAAUCGCCUG GCUCCUGUUUGGAGGAC	1	0.9966	5hmC	3	AAUCGCAGGCCUAGGACGUUUGGC GCGACGUGUGCCUGGCU	0.0690	Non-5hmC

pos_313	AACCCAAAAAGGACAAAAAACGAG AUCAAAAUAUUGAAACU	1	0.9999	5hmC	3	CUAGGACAAAACCAAAAAAAAAACA UAAACAUCGAGUUGAAA	0.3277	Non-5hmC
pos_316	CUGCGUGCCGCCACUACUCUUC AUCUCUGGAGAGGCCGC	1	0.8721	5hmC	3	GCCGCCGGAUUCGCUUCCGUUCUG AGCAAAACUCUGGCCUC	0.2465	Non-5hmC
pos_319	AUUUAUUUGAGGUAAGUACACGUA UUUCACUUUAAUAAGU	1	1.0000	5hmC	3	GUAGUAUAAUUUUUUUAUUAUCAC GUUAAAGGUUGAAACAC	0.0339	Non-5hmC
pos_336	GGCAGGAAGAGAGAAUAGGACAAG UAAACAAGUUACAAAA	1	0.9925	5hmC	3	AAUUUAAGCAAAGAAACAAGAAGG GCGACAGGUUAAAGGAA	0.1887	Non-5hmC
pos_356	GUUAAAUGUGUUUAAUAGCCUC CUUCUCUUUCCCCAAAA	1	1.0000	5hmC	3	CUUUAAACCCCUCAUGCAACUCUUA AUUAGCAAUUUGUAUGU	0.0897	Non-5hmC
pos_357	CGGACGGACAGACAAACGGACGGA GGUGCGGCAGCUACAAC	1	0.9999	5hmC	3	AGAGCGGCUGACACGGAACAGACC AAACGCGGACGGGUGCA	0.6827	5hmC
pos_367	GGGAUGGUGAGUCUGGUUACCCAA CUUUUCGAUUGUGCGGU	1	1.0000	5hmC	3	GAUGCGGGGGUACAACUAGUAAU CUUUUCACCGUUGUGUU	0.4825	Non-5hmC
pos_381	AUUUAGUUAAUUAUUAAUUCCAU AAGUGCAGGGUUUUGCU	1	0.9992	5hmC	3	UAGCAUUGCAAUUUAGUUCUUUCU AAAUUAGGUUGAAGAUU	0.2022	Non-5hmC
pos_387	CGGUUUUGAGACCAGCUUCCAGG AAUAAAAAUGUAUGGAG	1	1.0000	5hmC	3	AGGGACCGUUUAAUUGAAGAAAC UUUCCUGGAUUCAGGUA	0.1224	Non-5hmC
pos_390	GCCCAGACCCACCUGGCGGCGUU GUUCACCUUAGCGCGCA	1	0.9993	5hmC	3	CACCAGGCUGUAGCGCCGUUGCG CUGCACACCCAGGCCUU	0.4315	Non-5hmC
pos_393	UUUUUUUUUUGCCGCAAAACCAU AGAGGUGUAGCGGCG	1	0.9989	5hmC	3	CCGUUUUUUAAUUUUAGUUGAGA CAUCAAGUGCGGGUCGG	0.3188	Non-5hmC
pos_398	UGCGGUGCCCAACAAUUGCCCGG CAAAACAGUGUCGGUGC	1	0.9990	5hmC	3	CAAGUCUGCGCGCCGGGCCGGUA UUAACCAACAAGGUAGU	0.0347	Non-5hmC
pos_431	AAGCCGUAGGGGCGGUGUGCGGA GAACAGCUGUUGCGAAG	1	1.0000	5hmC	3	CGAUGCGUAGAACGCGUGUUGCUG CCGACGGGAGGGAGAAG	0.8202	5hmC
pos_454	CCAACAAUUAAGGACGCCCACU CGGAUACCCCUCAUCCU	1	0.9991	5hmC	3	CAGCCCAUACUCGACGCGGAUCA CACCAUUUAAGCCACU	0.4126	Non-5hmC
pos_456	CAUACAAAAGAAACCAGUACAGA AAAAUGCGUCCUGGAAA	1	0.9991	5hmC	3	CAAGGACGUUAGACGAAAACAGU AAACCUAAAAGAUACAA	0.3805	Non-5hmC
pos_466	UUUCAGUCCCGCUUCAAACCUCU AUCAGUGUUUAGAUAU	1	1.0000	5hmC	3	UUUUUAAACAGAUUCGUUACCAGUC GCUUCGAUUCUUUAUCC	0.5478	5hmC
pos_468	UCUAGGCGCAGGAGAUUUAACAAA UAUAUCUUUAGGGACAG	1	1.0000	5hmC	3	CGCUUUAAAAACAGUCUAUCUAUU UUGACAGGAGAAGGAGG	0.1552	Non-5hmC
pos_471	UUCUCUUUUUUUUAAGGACUUC ACACAUCGUCUGGGAA	1	0.9855	5hmC	3	CAUUUCUUAAGUCGUUCCGGGACA GACUCCGUUAAUUUUUCU	0.9843	5hmC
pos_478	CAUCGGUUUCCUGACCCCUACU GGUCGGGACAUAAUUU	1	1.0000	5hmC	3	GACGUGCGCCUCCUUUGACACU AUACAUCGGAUUCUCUU	0.6212	5hmC
pos_490	AAAACGAAACGGGAGGAGAGCACG UGCUUAAAUUUAGUUUA	1	0.9995	5hmC	3	UUUAGCUUAAACGGUUGAGAAAAU AAAUAAGCGAGCGGACG	0.0929	Non-5hmC
pos_497	CUAUAUUCCUUAUAGAACCAUUG GCUAUAUGCAAAUUAU	1	0.9993	5hmC	3	UAGUUCUUUAGCUUGCUAAACUAG AAAGUACCUAGCUAUA	0.9377	5hmC
pos_503	AUAAUUACAGUAAUUAAGUACAAG GCAAACGUCAAAAGCCC	1	1.0000	5hmC	3	CCAUAUUUAAACACAGUCAGCGCAA AAAAGGUUAAAGAUCAU	0.2646	Non-5hmC
pos_508	AUCAAUUUAAAAUAAAGAAUCUCA UCGCUACGCCGAGUAU	1	0.9917	5hmC	3	AAAAUUUAAUAAUCCUCAGCAAAA GAAGAUCCGCGAUCUCA	0.1410	Non-5hmC
pos_513	AAGGGGCAGUAAAUGGGCGCUGA AUGGGGGGGUUAAAAAG	1	1.0000	5hmC	3	CGCAUGUUAGGGAUAAAGGGUGA GGGUGACAGGGGAAGAG	0.7598	5hmC
pos_515	AUCGUGGCGUGAACACUAAAGCGCC UGUGGGCCACGCUACCG	1	0.9999	5hmC	3	UGAAGCUGUGGACAAUCGCCC CGG UGCCAGGGGCGCUAUAC	0.7187	5hmC
pos_534	AUUUAUUAUGUGGCCAAGACGUU GGUGUGGUUUUUGGUUG	1	1.0000	5hmC	3	GUUGGUUUAUUGGCUACAAAGUUG GUGUGAUUAGUUUUGAC	0.7410	5hmC
pos_542	UACCACUCACUGCCGCGACUGG UUUUUAAAACGCCGCGG	1	1.0000	5hmC	3	GCCUCCGCGCGUGGACUUACUUA CACGGAAGACUUUGCC	0.7323	5hmC
pos_561	AUAAAAUUUAAUCGUCGAGCUGA AAAGUUACGGGGGCC	1	0.9984	5hmC	3	AUAAAAUUUAAUCCUCAGCAAAA CCAGAAUUGGGUGAACG	0.0410	Non-5hmC
pos_562	CGUCUGGUGCCCAAGGGCCCUUU AACAUACCAUCGUGUA	1	1.0000	5hmC	3	GAAUCCGUGUGAACCCACCAUCG GUUUUAAAGCUGCCCGGC	0.6634	5hmC
pos_580	GCGGUUUUAGGCUUAGCCCCAGC GACGCCGCCGACUGUU	1	1.0000	5hmC	3	GUUGCGGCCGACGCCCCGACCUU UGUAGGACUUUAGCUU	0.4885	Non-5hmC
pos_583	ACCUCGAAAUACGCGGUGUGCGAU UAUUUGGCCAAACUCC	1	1.0000	5hmC	3	AAAAAAACCGCGUUGCCGUGGCCG AUUGCCUUUCGUACUUA	0.1334	Non-5hmC
pos_588	CUAUCGGAUUCGGAUUGCCCGUU CGGGGGGUUAAAAAGCG	1	1.0000	5hmC	3	CUAUCGCGGUAGAUUAAAGGGGUU AUGCGAAGCCUCGGAA	0.1669	Non-5hmC
pos_595	CCACUAACCUUAGUCGACUUU UUGUUUCUAAAGCAAAA	1	0.9796	5hmC	3	UUGAAAGACAACACUAAACCUCUU UUCUAUAGUUUAGCUCU	0.9580	5hmC
pos_619	AAGCAAAUAGUAACUUAGACGUA AAUACUCCUCCCUACGU	1	0.9548	5hmC	3	CCUGACUACUAAUACAAAAGACU AAUAACGUACCCGUAGU	0.2122	Non-5hmC
pos_627	AGCAGCGCAACAAACGACCAAG GAGCCGCAAAAAGAG	1	1.0000	5hmC	3	ACCAACACGAGCCCGGCAAAAGGUA GGGACAGAAAAAGCAAA	0.4220	Non-5hmC
pos_632	GAUUUACACUGCCAAGGUAUCCA AGGGAGUGGAGUAGUAG	1	0.9996	5hmC	3	UGCUGGGGUUACAGUAGCACAGGA GUCAUCAAGAGGAUUUA	0.3305	Non-5hmC
pos_645	CCUCGCCUUUUAUUUCUAAUACUU CUAAAUCUCUUUCUUA	1	1.0000	5hmC	3	UUUUAAUUCUACUCUUAACUU CCUUUUUUUACCGCCA	0.0063	Non-5hmC
neg_678	UCAAACUUUUUCGCCAAGUUCAGA AUUUGGCUUAAUUUGCG	0	0.1835	Non-5hmC	3	GCCUAAACAAGUUUAGACGAAUU CGCUUUGGUUCUUGAUU	0.2049	Non-5hmC

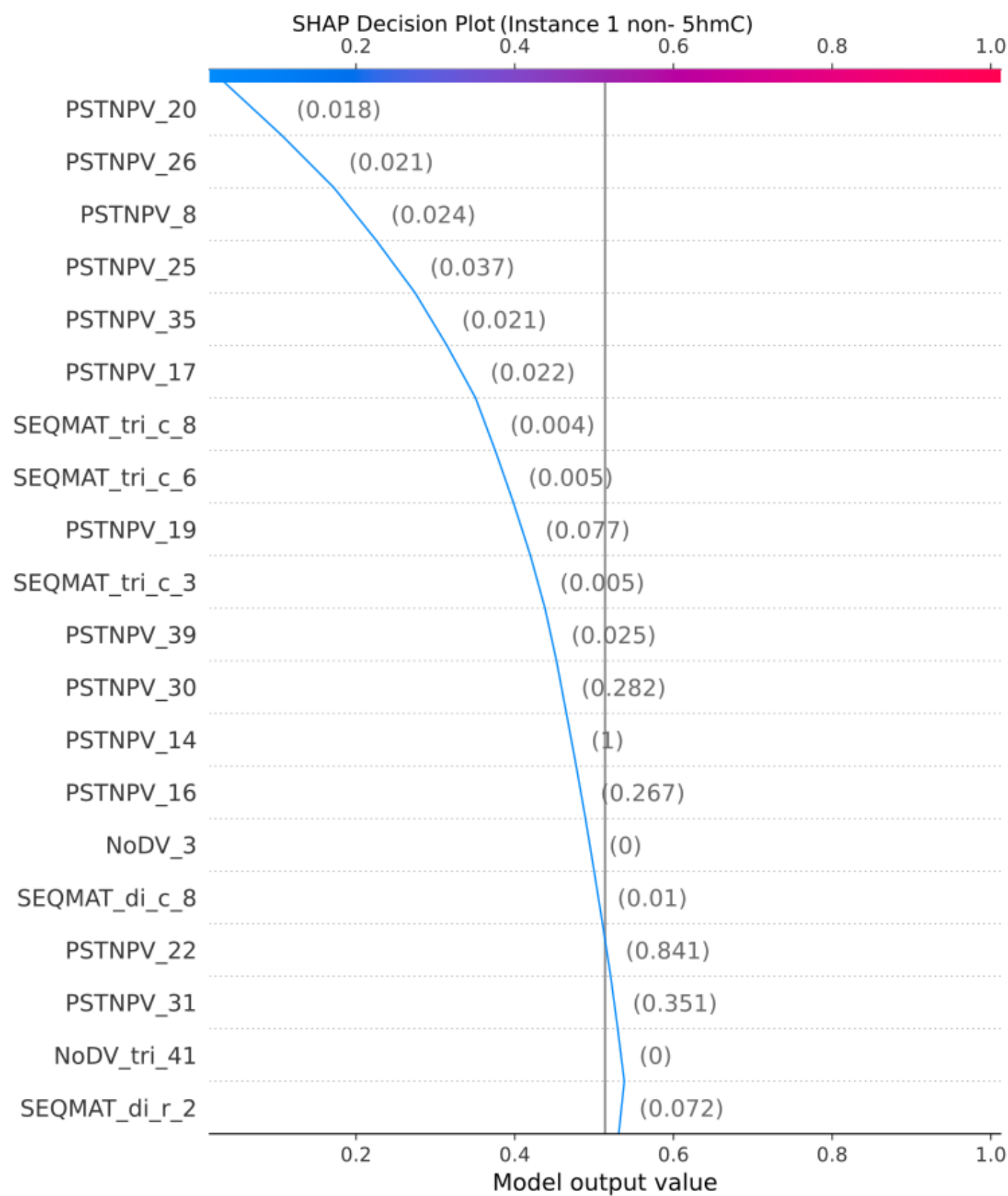
neg_685	UUCUUACAGUUUUUUGACUCUUU AAAUCUUUAACAACCC	0	0.0673	Non-5hmC	3	AAACAGCCUUCUGACUCUUUAACU AUUUAUUUUUAAAACUCU	0.5161	5hmC
neg_693	GAUAGUGUGGGAGAUCCGUGCCGC AAGAAGUCUUCGCGC	0	0.6778	5hmC	3	CUAAGUGCGGACGUGUGAGUGAUG AUCGCAAGUUCGCGUC	0.1105	Non-5hmC
neg_695	CUCCGUCGAUGGCCAAACAGCCGA AAAACCACUCGCGCGCC	0	0.1178	Non-5hmC	3	AAACGCCUCCGAAACCGACCCGUA GCUGGACCACUGCGCCA	0.4427	Non-5hmC
neg_700	GAGGGCGGAGUGGUCCUAAUCGAU CGGGGGGAGUGAUCUA	0	0.3073	Non-5hmC	3	AUCCGGGGCCUAUCUGUGCAGAUU GAGAGGGGUGCGGAGAG	0.1068	Non-5hmC
neg_701	AAUAAAAAAGCCAUUUAACACCGG AGAGGUUAUCUUCGUUU	0	0.1171	Non-5hmC	3	UCCUAAAAAGACGUCUUUAUCAUU ACCACAAUGGUAAACGG	0.6537	5hmC
neg_702	UCGCCCCCUUAAAAUAACAACGCC UGCACCCCAAGGUGGAU	0	0.0308	Non-5hmC	3	AGGAACUGGAACUAAAUCCCAACU CAUGCGCCCUUCGACC	0.4272	Non-5hmC
neg_707	ACAAGGCAUAUCACUUUUUUCUCC GAUCAUUUUUGGAAUG	0	0.5538	5hmC	3	ACACAUACUGAUGAAUCCAUCUUU CAUAGGUUGUGUUCUUU	0.1391	Non-5hmC
neg_719	GUGGCGGUCAGGCCGUGAUUCUCG UAUGUGCCCCGGGGCCG	0	0.0246	Non-5hmC	3	CGGCCGGUGAGGCCCUUCGUCUGA GCGUCGGUGUAUGGGCCG	0.0647	Non-5hmC
neg_723	GGACUCCCCACACAGCGUUGCUUU UGUUUUAAUUAUGAAAC	0	0.4871	Non-5hmC	3	CCCCUCACUUUAUGAACAGCGUA CAGGAUGCUUUUGUAAU	0.0652	Non-5hmC
neg_731	CACACACCGGGGCACACACACAAA UGCACCUCGCGGAGAUG	0	0.0522	Non-5hmC	3	AGAACCGGGCACUGCGGACACACA CAUCGAAACACCCGUGC	0.3394	Non-5hmC
neg_736	ACUUUGAAGUCCAGCGAGGUCUGG ACCCCCAAAACACACU	0	0.4670	Non-5hmC	3	ACUACAAGCAAGCAACUGAGCCCU GGAUCUCCUUGGUCACC	0.0183	Non-5hmC
neg_757	AUUAGAGCGUGUUGCAGGUGCACU GUUUUUGGGGAAAAGGG	0	0.2600	Non-5hmC	3	UUUGGAUUAAGUGCAGAGGGGCGG UUGAAUGUAAGACUUGC	0.7823	5hmC
neg_758	UGGAAAGCGGAACGUGUAAACUGU UUUGACUCGUCUGCCC	0	0.0499	Non-5hmC	3	GACAAAUGUGAAUCCUCGCGUGG CGUUUUGUAAACCCUGC	0.5531	5hmC
neg_765	CUUUUCCGACAUUCCUCCUCAC CUGGAUGACCUCACCC	0	0.0289	Non-5hmC	3	CUUACUGAUACUUCGCCGACACCC GGACCCUCCUUCACCU	0.7634	5hmC
neg_768	CGCCCGGAGGAGACUCCGCCGCC AUUCAAUUCAAUAUCG	0	0.5718	5hmC	3	ACUGAGUUCAUCCGCAACGAAAG CCUCCCGCGCCUAUGAG	0.7443	5hmC
neg_772	GAGUUUUCAGCAUGGUUUUCGGG UAAAACCAACCAUGUAA	0	0.5188	5hmC	3	UGGUUCUCAGCAAACAGAGUGUC AAGGUUUUAUAACUUA	0.1033	Non-5hmC
neg_783	UCGAUUUGCGCGGGCUCUGCGGA GAGCUUUUGGCUUUAAU	0	0.0235	Non-5hmC	3	UCGUUGUAGCCGCUUGCGAGAUU GCCUUCUCGGGGAAUU	0.4777	Non-5hmC
neg_786	AUGUUC AACGAGUUAUAAAACCGA AACUCGGGGAACCC	0	0.1070	Non-5hmC	3	AACAACCGAACCAAAUAAGGGUUA GAGUUCUCGAUGAACCC	0.1415	Non-5hmC
neg_789	CCCCUACCAAGGUAAAGAACAGA GUAUAAAUUAAAAAGC	0	0.1596	Non-5hmC	3	GCAAGCUAAUAAAAGAAACAGGU AACCCGUAAUACCAAGA	0.9811	5hmC
neg_794	CAUCCCCAGAGCGACCUGCCAGA GGUAAAGGGAGAAUUUA	0	0.0761	Non-5hmC	3	GGGCCUAGAAUUCGACAUCCGAGA UAAAAGCCGGUGAGCCA	0.5304	5hmC
neg_803	CUUUGGUGGACGAGCGUACAUI CGUGGAAUAGUAGACG	0	0.1427	Non-5hmC	3	UACCGUUGGAUCUUGCGAGUCA CAGGCGACUGGGGAAU	0.8428	5hmC
neg_811	GCCCUCAAUAUCUCCGUUCCCCCA UAGCUCCACAUCCCCA	0	0.0165	Non-5hmC	3	CAUGCCCCCAUACACAAUAUCCA CCCUCGCUCGUCCCCUC	0.8920	5hmC
neg_828	UGUGGCGCCCCCGGAAGUAUCUCU UGCGAAAUUUAUGUGUG	0	0.0034	Non-5hmC	3	GGCUCUGUGGCCUGAUAUGUUGCG GAAUAGUGAAAUCC	0.1988	Non-5hmC
neg_846	CUUUUUUUGUGCGCCCCCACAUI GUUGGCCUAAUUGUUGC	0	0.0021	Non-5hmC	3	CACCUUGUUUUGCUAUUUGUUGCC CCUGCGCCAUUUAUUGGC	0.1059	Non-5hmC
neg_847	GCUUUGGCUUAGUUCUUCUUUU UCCCUUCCACACAUC	0	0.1130	Non-5hmC	3	CUUUAGUCCCAUGCUUCCCUUUUU UUCGCUACACCUUGUCC	0.8688	5hmC
neg_855	UCGAGCCAUAAGCCUUGAUCGCC CACACUUGGAAACUGGG	0	0.0381	Non-5hmC	3	UCCGCCACUAGCCACUCCUGGU GGUAGCAUAUCAAUUG	0.8894	5hmC
neg_861	AGAUUUGCCAGAUAAAAGUACUAI CGCGAUGGCUUUUAGUA	0	0.0178	Non-5hmC	3	UAGGCAGAGCCAGAUACCGCAU AUUUUAAGUUUUAUAG	0.5708	5hmC
neg_880	ACCACACGAGCUCGCUUUUCGUG CAGAGAGUACUACGA	0	0.2555	Non-5hmC	3	GUGACUUUCAUCCAGCUAGAACGG UUGAGACAGCCACC	0.8047	5hmC
neg_908	AGAGUAUCCUACGCUCUGUCCU GAGGGGGGGGGGGGGG	0	0.0036	Non-5hmC	3	GGCGCGGGGUCUCCGGGGGGGU UAUCUGAGGGGAGACU	0.0032	Non-5hmC
neg_911	GUGUCACAGACAUUUGUGUCCGU UUGUGCCAACCCAAAC	0	0.0313	Non-5hmC	3	AAACAGGUGUCCAAUUGCCCACA UGCUCAGUUUUCCGUG	0.9783	5hmC
neg_913	UUUAACUACCAAGUGAAUGGCUUA AUUACGGCACAUUUUA	0	0.0338	Non-5hmC	3	AAUUAUUUAUUGCACAAGUGUUA ACGGCUACUUCACACG	0.9114	5hmC
neg_927	CCAUCAAUGUCGUUUUGGCCCCC CUCCCACCAGUUUGCAG	0	0.0028	Non-5hmC	3	CCAGCCUCCCAAUGGUUCUCCA UCAUUGAGUGCCCCUCG	0.3304	Non-5hmC
neg_938	UAAAUAAACUCCGGCAUUUCUAG UUUUACAACAGUGGAU	0	0.0691	Non-5hmC	3	UACAGUAAUGGCAACAUCUUCUU UAAAUGGUUAGUAUCC	0.2135	Non-5hmC
neg_955	UUUUAUUCCGCCCAUUUUGCUUU ACACUUUAAUCUGGAU	0	0.0052	Non-5hmC	3	UGCUUUUUUUUUCCAAUUCUCUU AACUUCCACAGGAU	0.5935	5hmC
neg_969	UUUGCGCUAACGUUCUCCUCUAA AGUGCGUAUGUGUGU	0	0.0018	Non-5hmC	3	GUGAACCUCCUCGCGUAAUGUUA UUUGCGGUGUAGUCCU	0.7598	5hmC
neg_1001	GCCUGUGUCACUCUCAAUACGGC CGAAAGGUAUCCGUCGA	0	0.2545	Non-5hmC	3	GACAAGGCGUCUCCGUACACAAGC UGCGAUACUGUGCCUCU	0.2950	Non-5hmC
neg_1020	GAGUUAAAUACUUUUAGAGCGCA UCUUUUUUUUUUUGU	0	0.0071	Non-5hmC	3	GUAAUUUAACUAGCUUUUAGGCAU UUUUUUUUUUUGAGUUU	0.2295	Non-5hmC
neg_1022	ACAAGGUGCAGAAGGGUGAUCCCG GCCAUACGGACAGCGU	0	0.1302	Non-5hmC	3	AUCGUCAGAGUACAGCCAGGGUGC AUAGCGACCCGAGGACG	0.8190	5hmC

neg_1033	GUUCGUAGUGUCCGUAGUAUCCGU GGUGUCCGUUUUGUACA	0	0.1099	Non-5hmC	3	CGUAGUGUCCGUGUAAGUGUCAA UUCGUCGUGGUGUCAUC	0.6483	5hmC
neg_1046	CGCGUAUGUUGUACACGGGGCUGU AGACUCGGGCGGGUGAC	0	0.0944	Non-5hmC	3	CGGCGCGGGACAAGAACUGUGUAC UCGUGUGUCGGGGCUGU	0.0093	Non-5hmC
neg_1049	AAGAGGCCGAAUGGAAUGAACAAAC UGGUAGAACCAACUCG	0	0.1126	Non-5hmC	3	AAUACUGGAUGGCCGAUGAAGAAC UAGCGCAAAGGAACAAC	0.1996	Non-5hmC
neg_1053	GUGGGACGACGUGGGGAGUGCUGG GGGGGGGAGGAGUUGUG	0	0.0005	Non-5hmC	3	UGGCGAUGGUGCGCUGGGAGGAGU GCGGAGAGUUGGGGGGG	0.1581	Non-5hmC
neg_1067	AAUCCCUAAAGGGGUGCAUUAAC UAGCUAAAUGACGAACA	0	0.2263	Non-5hmC	3	GACUCCAGGUAAUAAUGAAAAACU UAAGGUAGCUACCCGCA	0.0808	Non-5hmC
neg_1074	CGCUCGCAUUCACCGUUAACCAAU UAGCAAAGGGUGACCAG	0	0.0809	Non-5hmC	3	GUGUCGACCAUCAUUUACCGCGC AGGAGUAGACCUCACAA	0.2274	Non-5hmC
neg_1079	UAAGCACUCCUUUUUCCCUACUCC GGAAUGGUUUUUGCCCG	0	0.0063	Non-5hmC	3	AUGUCCGACUUCGGCAUACCUCU AAGUCCCUUUGCCUUU	0.9224	5hmC
neg_1082	AUAAGCCGAGAUUAAUUGCCAUG UUUGGGGGGGGGGGGG	0	0.0001	Non-5hmC	3	GGUAAUUGGGCGGAUGGGGGCCA GAUUUAGCAUAGGGGGG	0.0056	Non-5hmC
neg_1087	UGUUUUUUCCACGAAUAAACGCA AAAGGGGUGAGGGGA	0	0.0023	Non-5hmC	3	CCAGCAAACGGGAAACGAGGUUUU UGUGUUGAGGGAUAGAG	0.0200	Non-5hmC
neg_1096	AGGGGUUUGCUUGUUUAUGGCGAG CGGGUCAUAAAUGAGG	0	0.0135	Non-5hmC	3	CUUUUACGGUUGAGGGGGGUGUUU GAAAUGUCGAGGGCAUA	0.5398	5hmC
neg_1130	UUGAUUAAGGGCUUUGUUGCGAG UGUCUGAAGUGUCCCUA	0	0.0801	Non-5hmC	3	UGUAAUUGUUGCGGGAUUUGUAU GUGAGCUGCCCAAGCUU	0.1783	Non-5hmC
neg_1164	GAGUGCCAGUCCGGGAACCCAG GAUCCGCACAUCCGCAU	0	0.0247	Non-5hmC	3	AUCCCGCCCAAGAUUCGCGAGUGC GAACACAUCAGUCCGGG	0.3899	Non-5hmC
neg_1166	GGAAUCCCUAAAAUGGGAACUAU AGUAAUUGAAAGUUAU	0	0.0401	Non-5hmC	3	CCCUAAUUAACGGAUUUAAAU GGGUGAAUUAAGAGU	0.1842	Non-5hmC
neg_1168	CUUGUGUAUUUUGGUUUUACGUU GUUUACAUCUUGGUUG	0	0.0075	Non-5hmC	3	GUUGGUUGGUUUUCGUUAUGUUA UCCCUUACUACUUUGUG	0.9386	5hmC
neg_1169	UAUUCUAUUAUUUUGGGAGCGGU GUUGAUUUUCCACCAA	0	0.0013	Non-5hmC	3	GUUUUAUUAUUUAAUCCAAA GCUCUGGGGGUGAUACC	0.2927	Non-5hmC
neg_1170	AGCGUCUAGCGCAUUUCUACACC CCCCGCGCAAAAGUCA	0	0.0301	Non-5hmC	3	CCCACCCGGUCAAGUCAGCUAGC CACGCUUCAAGAUUAC	0.9858	5hmC
neg_1172	CUCAGCUAUUACUUGCAUUAUAA UUUGAUUUUAGGUCUC	0	0.0079	Non-5hmC	3	GUCCUCUUUGAUUAAUACGAUUUC UCAGCUACUAAUUUUAG	0.3569	Non-5hmC
neg_1205	CCAGAUUCAAUUGGCGAAUCGUU GGUACUUGGGGUUGAGA	0	0.0039	Non-5hmC	3	UGGCCAAUUGAUGAGGUUCCGAA CUGGUGUUUGGUGAUA	0.5083	5hmC
neg_1207	AGUCAAAUAAAGCUGGCCAACAAA AGGAUUGUUUACCGCC	0	0.0669	Non-5hmC	3	AACCCGCAAAAGAUUAGGAUUGCC AGUUACCUGGUUCCAAA	0.5085	5hmC
neg_1217	CCCCAAUACCACUGUGCCUCCAA AUGGGUGAGUGGGUUGG	0	0.0005	Non-5hmC	3	AUACAAGGUGGGUUUGGCCACUCA UGGAGCCACUGUGCCCC	0.1826	Non-5hmC
neg_1227	AUUUACCGACCAUUCGGGUCCAG AAUGAAAGAAAAACAAU	0	0.2666	Non-5hmC	3	CCAAUUUCUACGUCACAAGAAAAA UUCGAAAUCAGGAAGGG	0.7749	5hmC
neg_1232	AGAGAGGGAGAGAUAGAUAUAAU UGGGUGGGGAGACCCG	0	0.0103	Non-5hmC	3	CGAGAGAGAGUGAGAUCGUGAAGG GAGGGUGGACCAUAGAG	0.4709	Non-5hmC
neg_1240	CUCAGGGGGAAAGAGACUACCCAA CAAUCCUUGGGUCCAC	0	0.1553	Non-5hmC	3	ACCCUCCAAGGGAACAAGAGUUC GGGAGGACUACCUUCC	0.2661	Non-5hmC
neg_1298	CGUGAUUGGUGGGCGGGGGCGAA AUGAUGAGAAACCCCAA	0	0.0074	Non-5hmC	3	GAACGUAACCCUGGGGCAUGGCG AAUGGAGAAUGGAUGGG	0.4784	Non-5hmC
neg_1303	UUUUUCCGAAGUGUACCGACUGG AACAGGAUUCUGAAAA	0	0.3963	Non-5hmC	3	AAUGGUUUGAAAAGCUCAGGUUUC CGACCAUUGACAACUGU	0.5505	5hmC
neg_1305	CCCAGGAGGGGGACCACCACC GCCCAUGAUGAUGGGG	0	0.0397	Non-5hmC	3	GAUCAUGCGGGCCACCAGGGCCG AUACCUCGGGAGGACC	0.0009	Non-5hmC
neg_1308	AAGAUUGUGAUUUUAAUUGUCUUU GGGUCCCGUAAAACGGU	0	0.0188	Non-5hmC	3	AAGAUUUUACGUUAGGGAUUGUG UCAAGUGUCCAAUCGU	0.3804	Non-5hmC
neg_1316	UUUUUACAUCCGUCGUGUUCUAA ACUGUGCUAGACAACAG	0	0.1761	Non-5hmC	3	ACUAGACAUUUGUGACAACGUCU AAUCCCUAGUGUUCUUU	0.2911	Non-5hmC

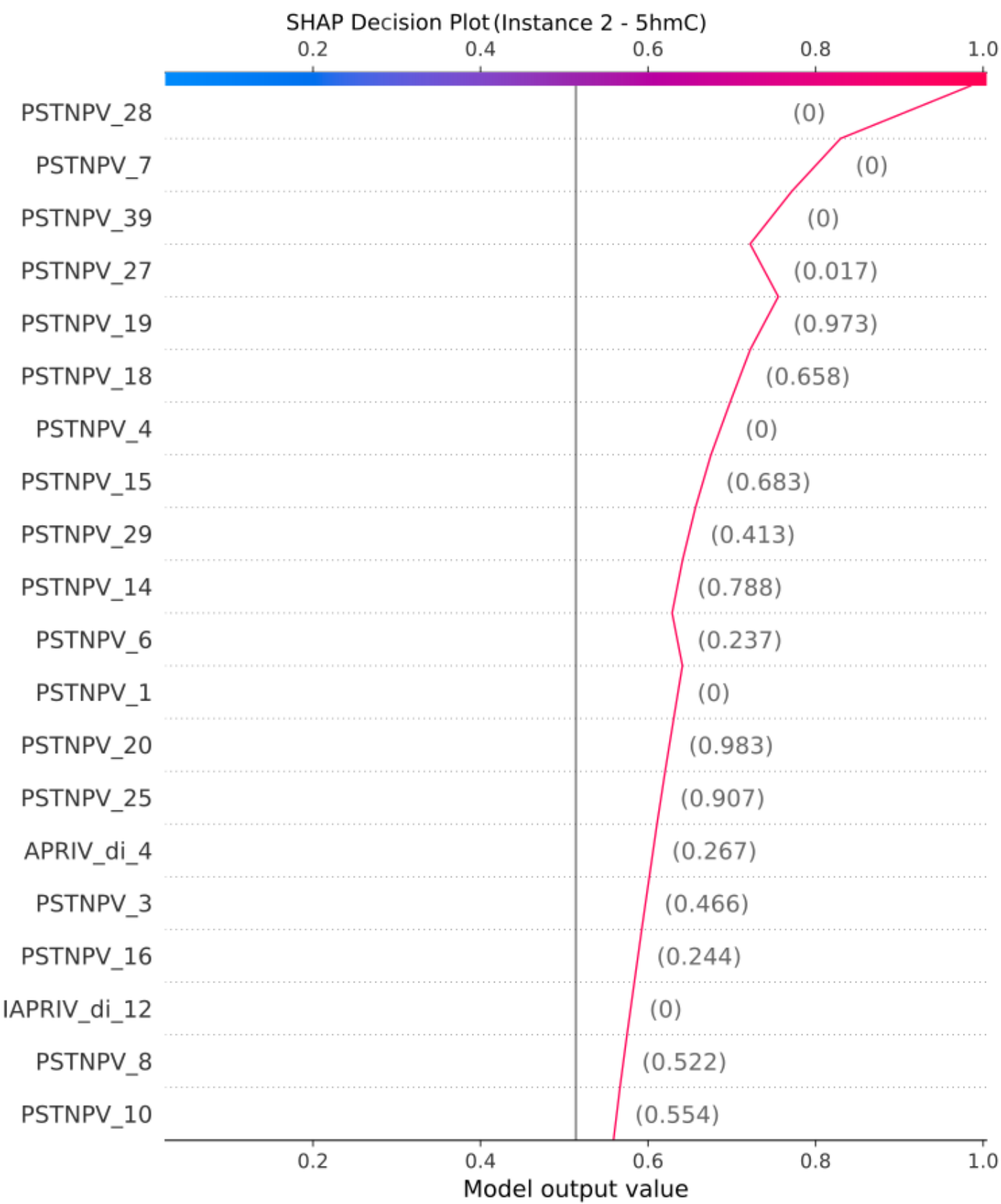
Supplementary Figure S1. SHAP decision plot for negative instance 1



Supplementary Figure S2. SHAP decision plot for negative instance 2



Supplementary Figure S3. SHAP decision plot for positive instance 3



Supplementary Figure S4. SHAP decision plot for positive instance 4

