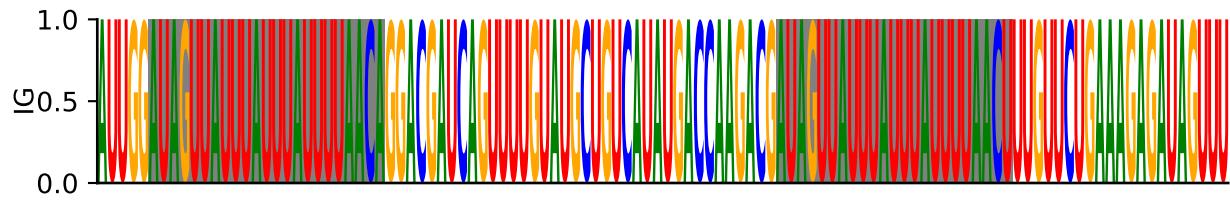


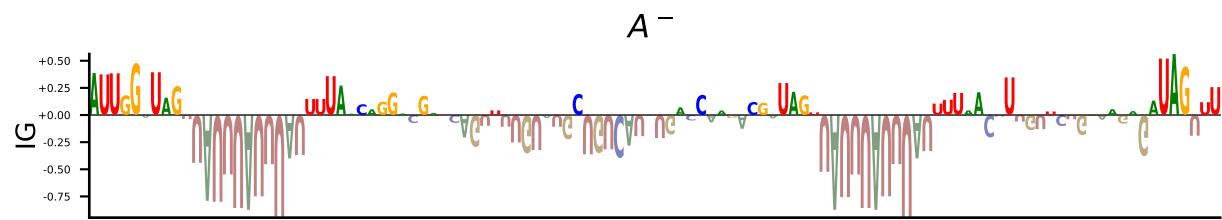
Supplementary File S1

Comparison of the sequence logos obtained by Integrated Gradients on the single-task and multi-task models for all reporters in the 58 A^- and A^+ UTR-seq validation datasets. The highlighted motifs are embedded elements in the 3'UTR sequence.

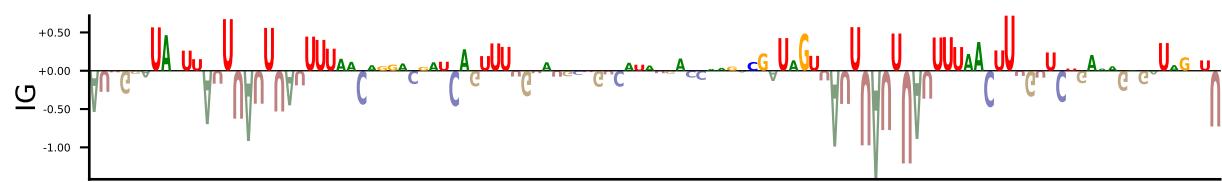
Highlighted motifs



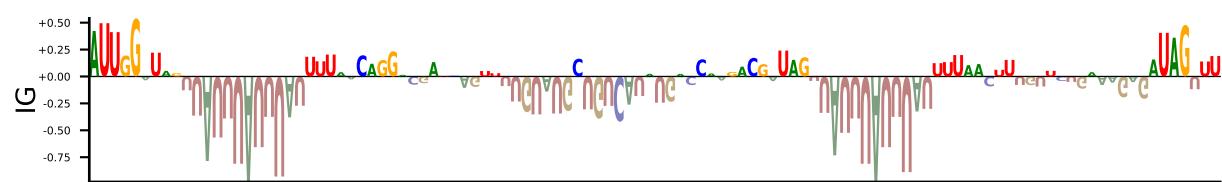
single-CNN



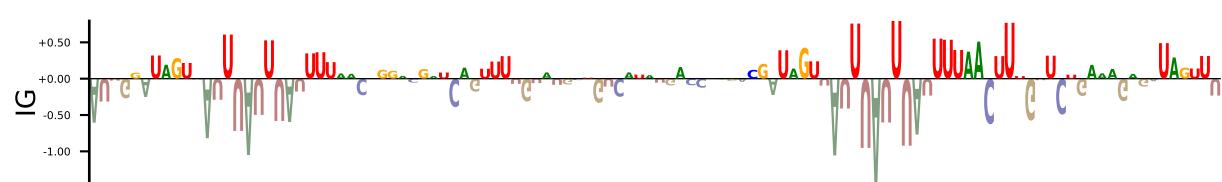
single-RNN



multi-CNN

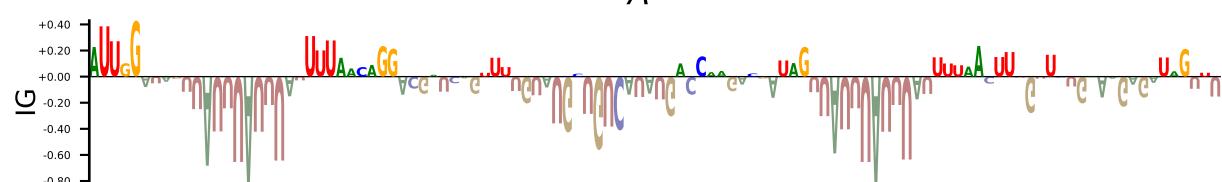


multi-RNN

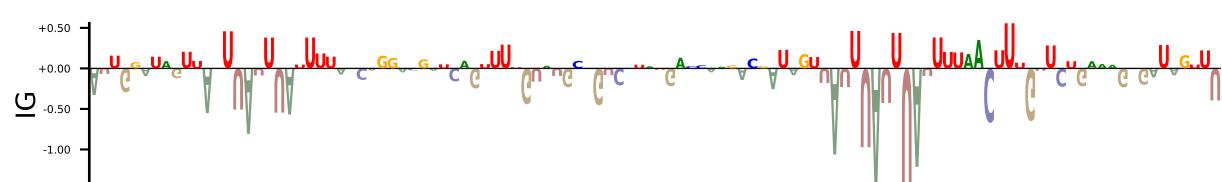


A +

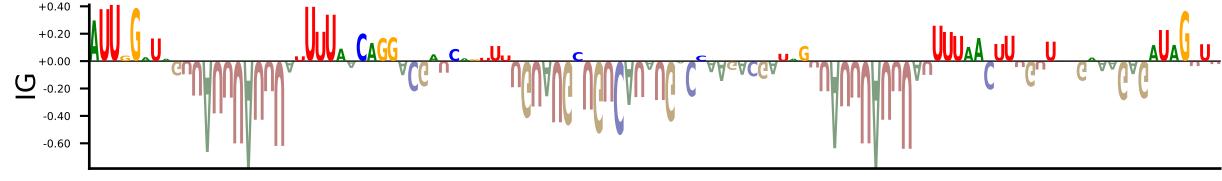
single-CNN



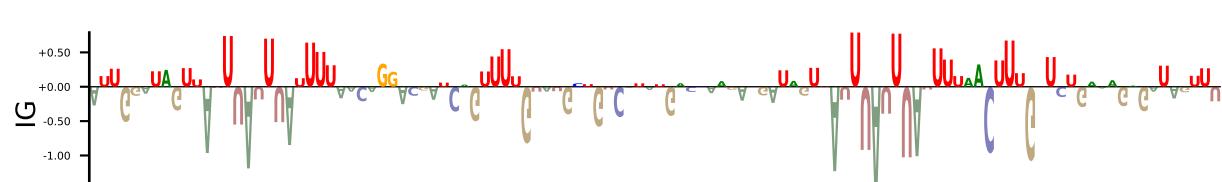
single-RNN

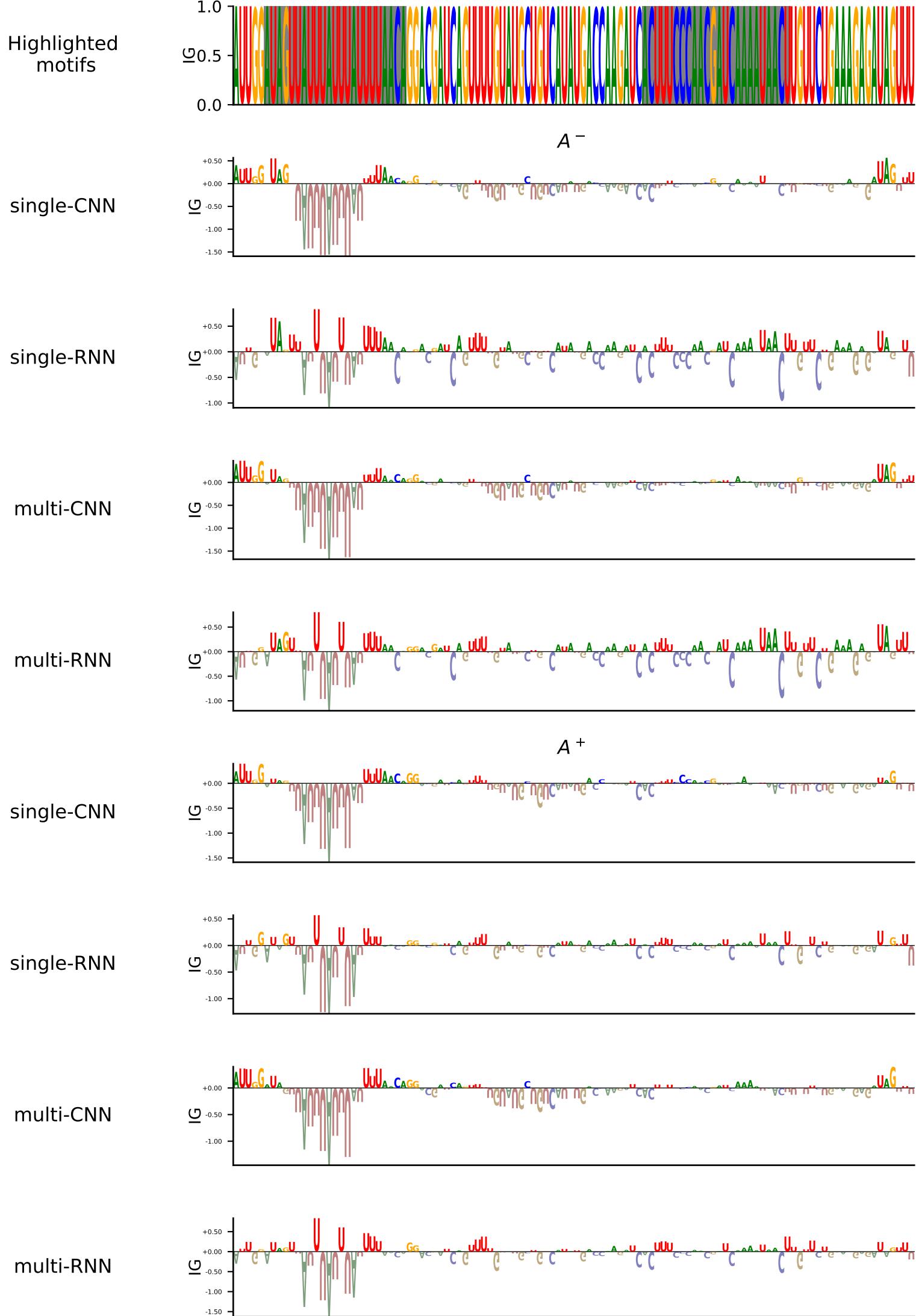


multi-CNN

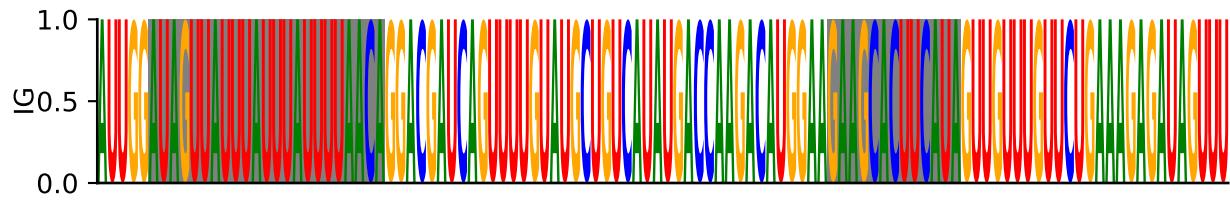


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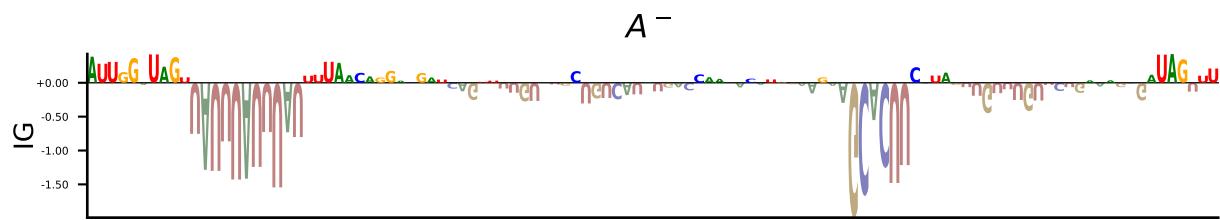




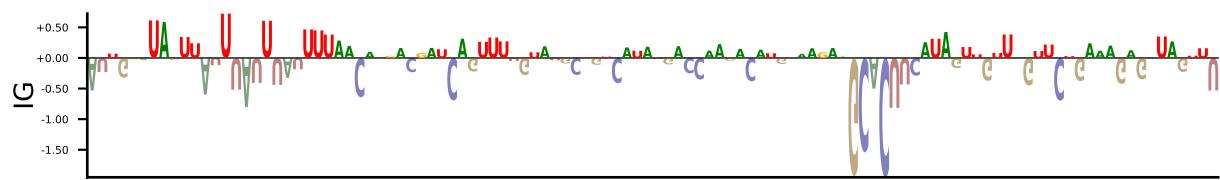
Highlighted motifs



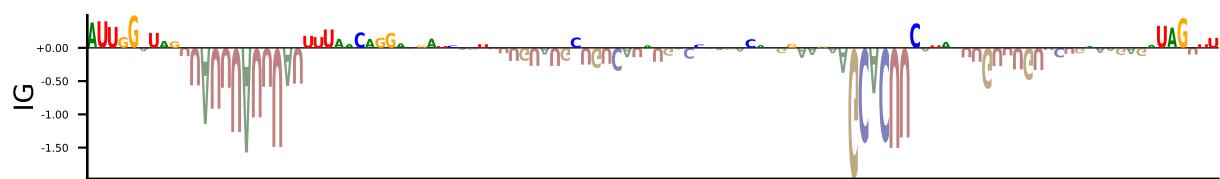
single-CNN



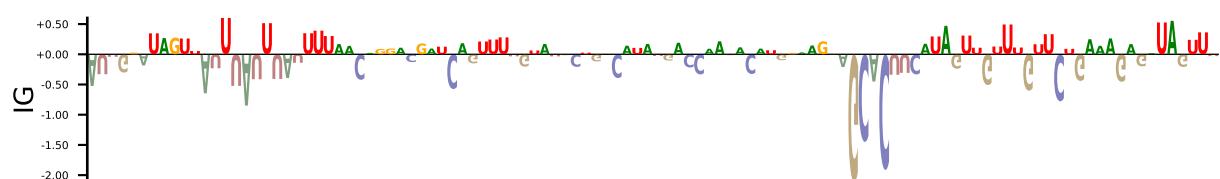
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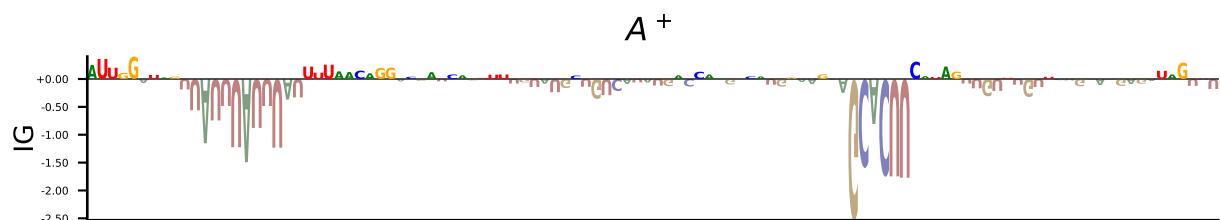
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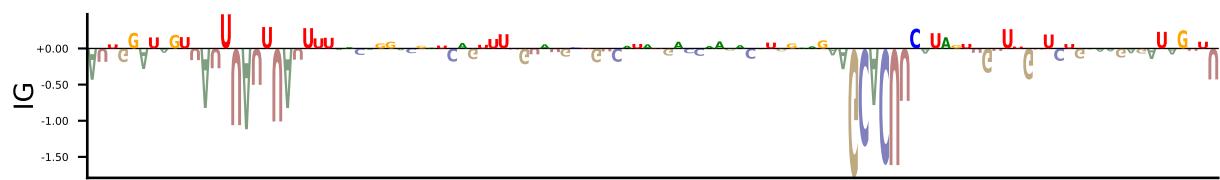
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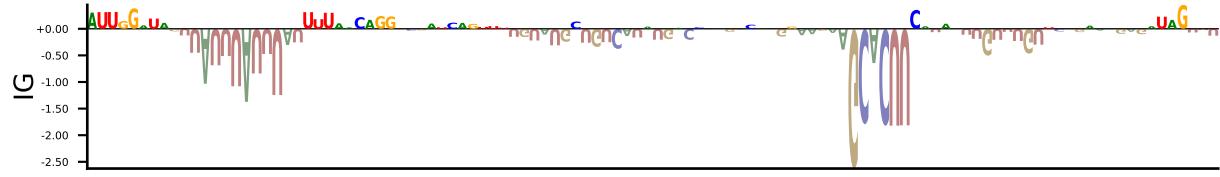
single-CNN



single-RNN



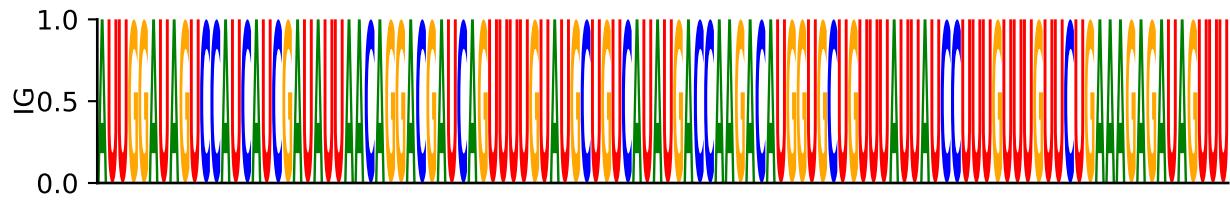
multi-CNN



multi-RNN



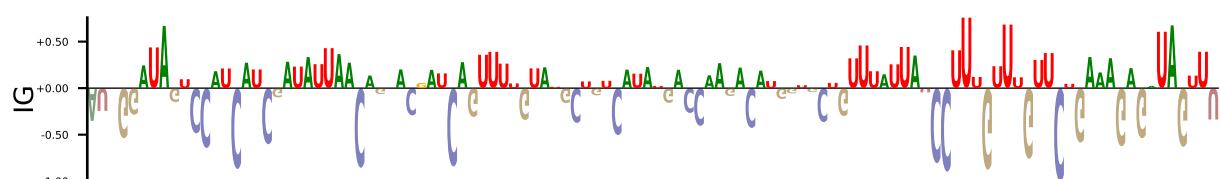
Highlighted motifs



single-CNN



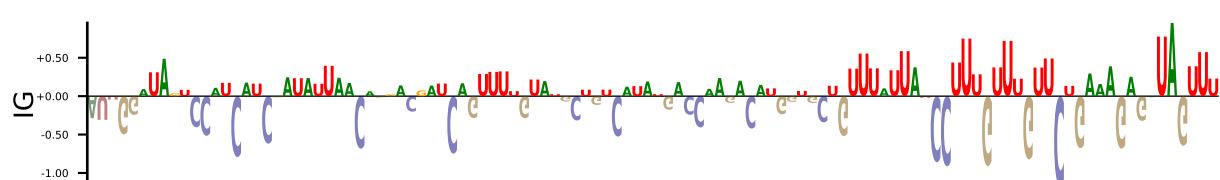
single-RNN



multi-CNN

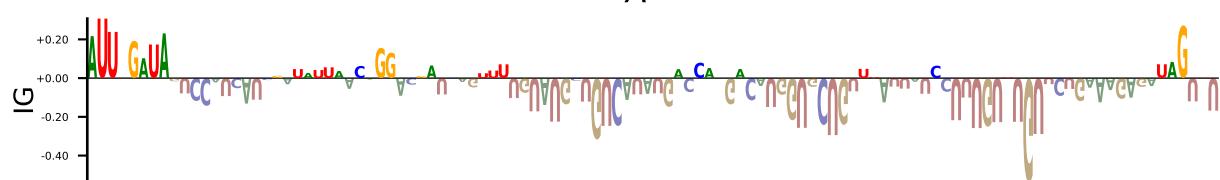


multi-RNN

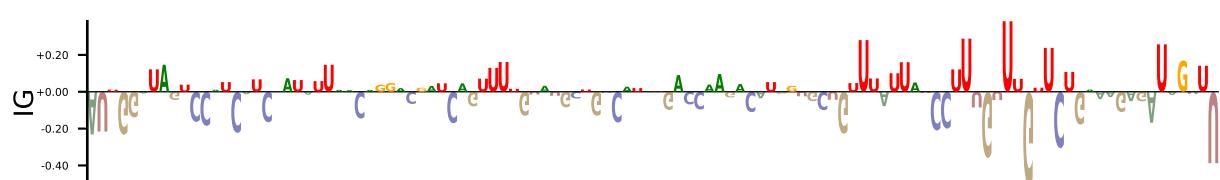


A +

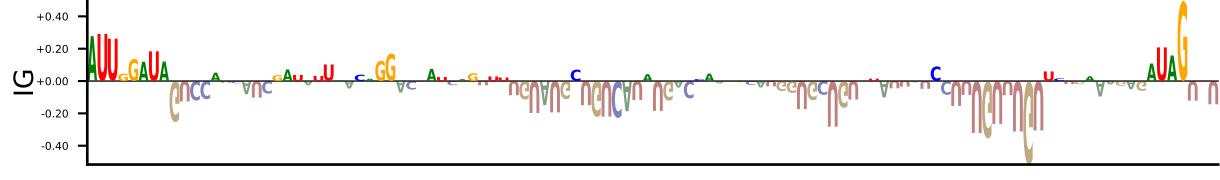
single-CNN



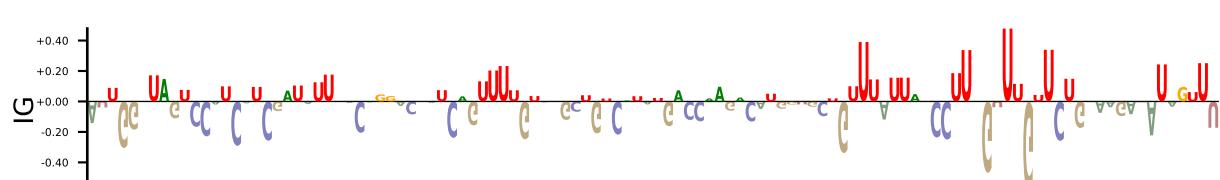
single-RNN

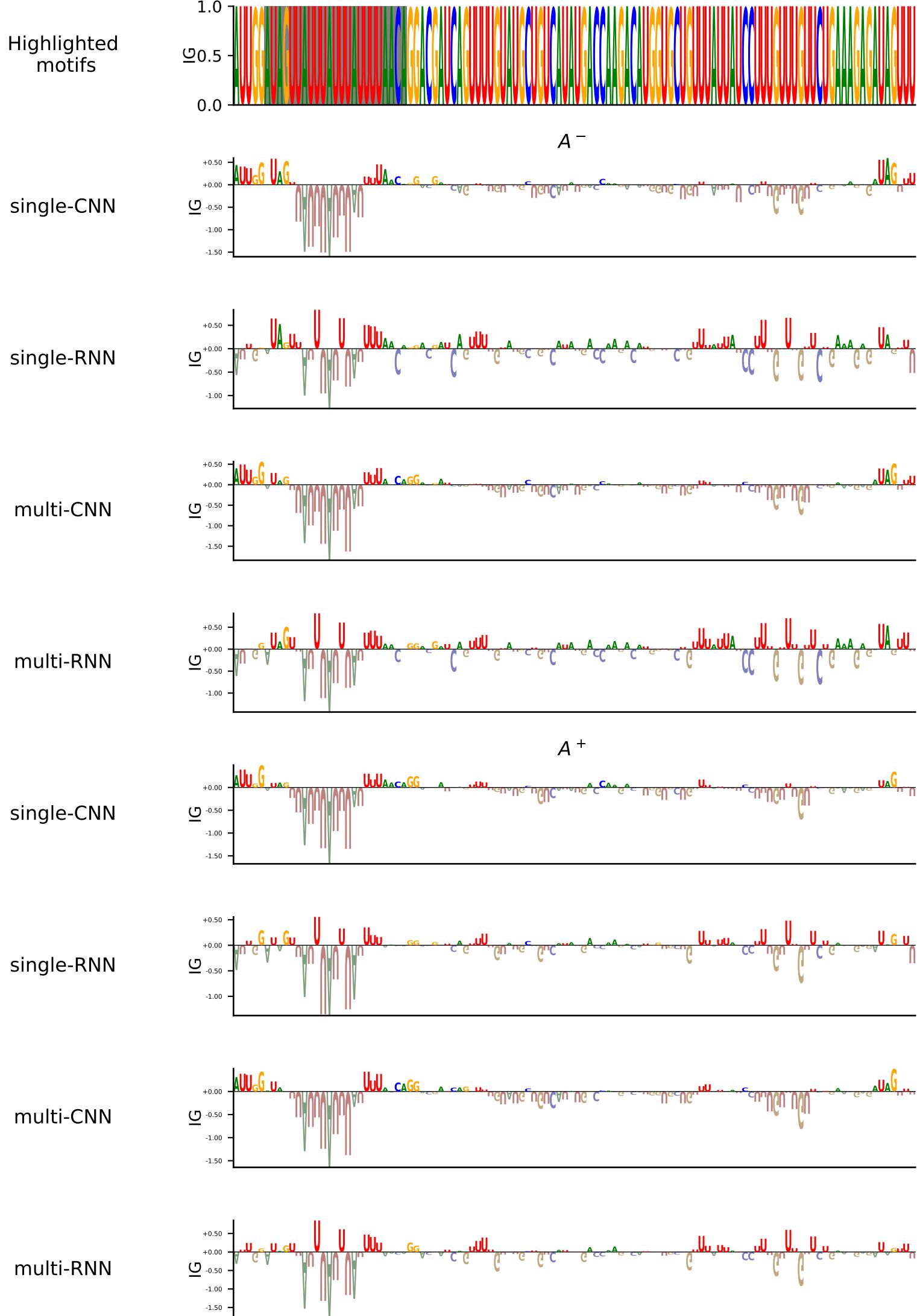


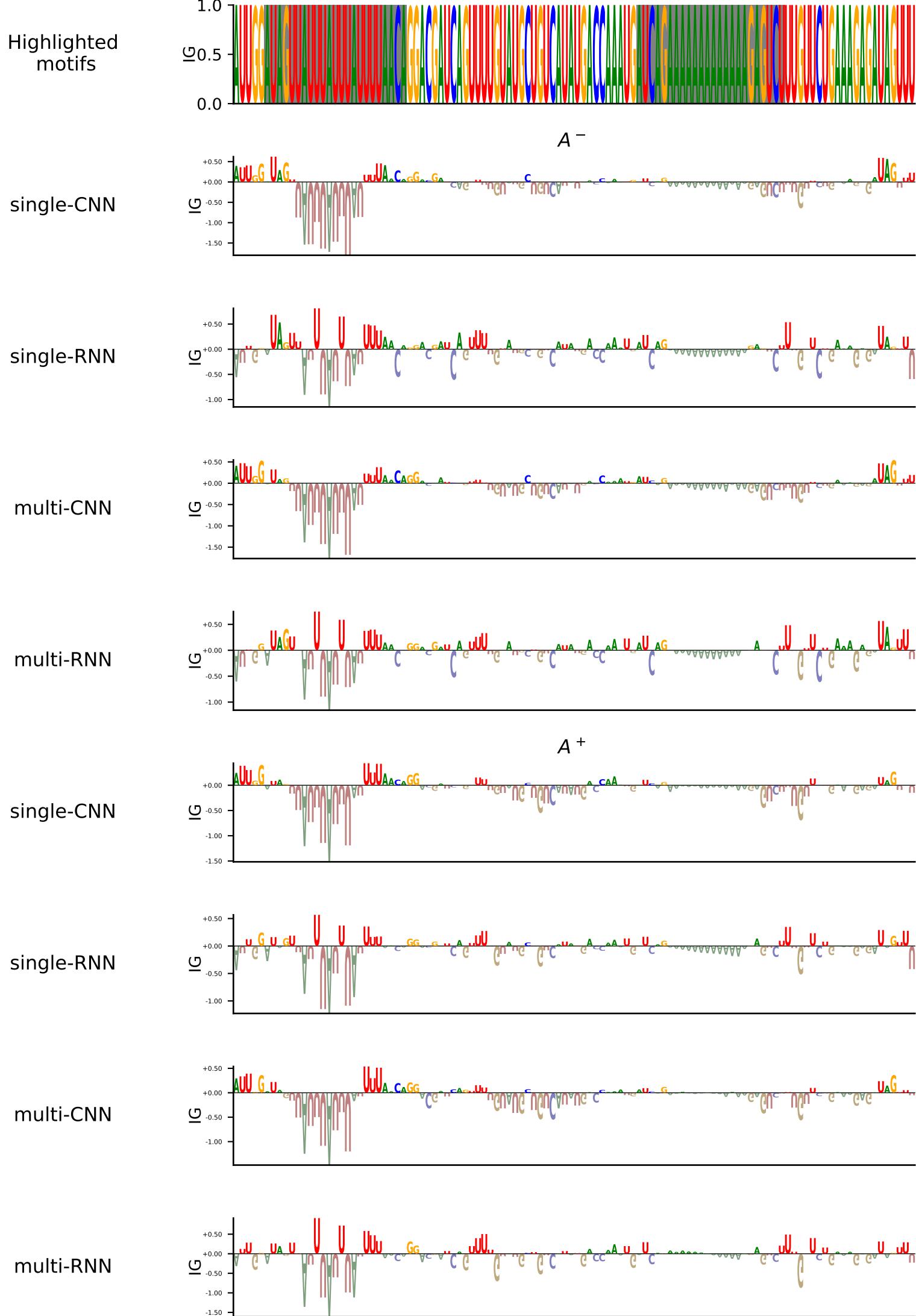
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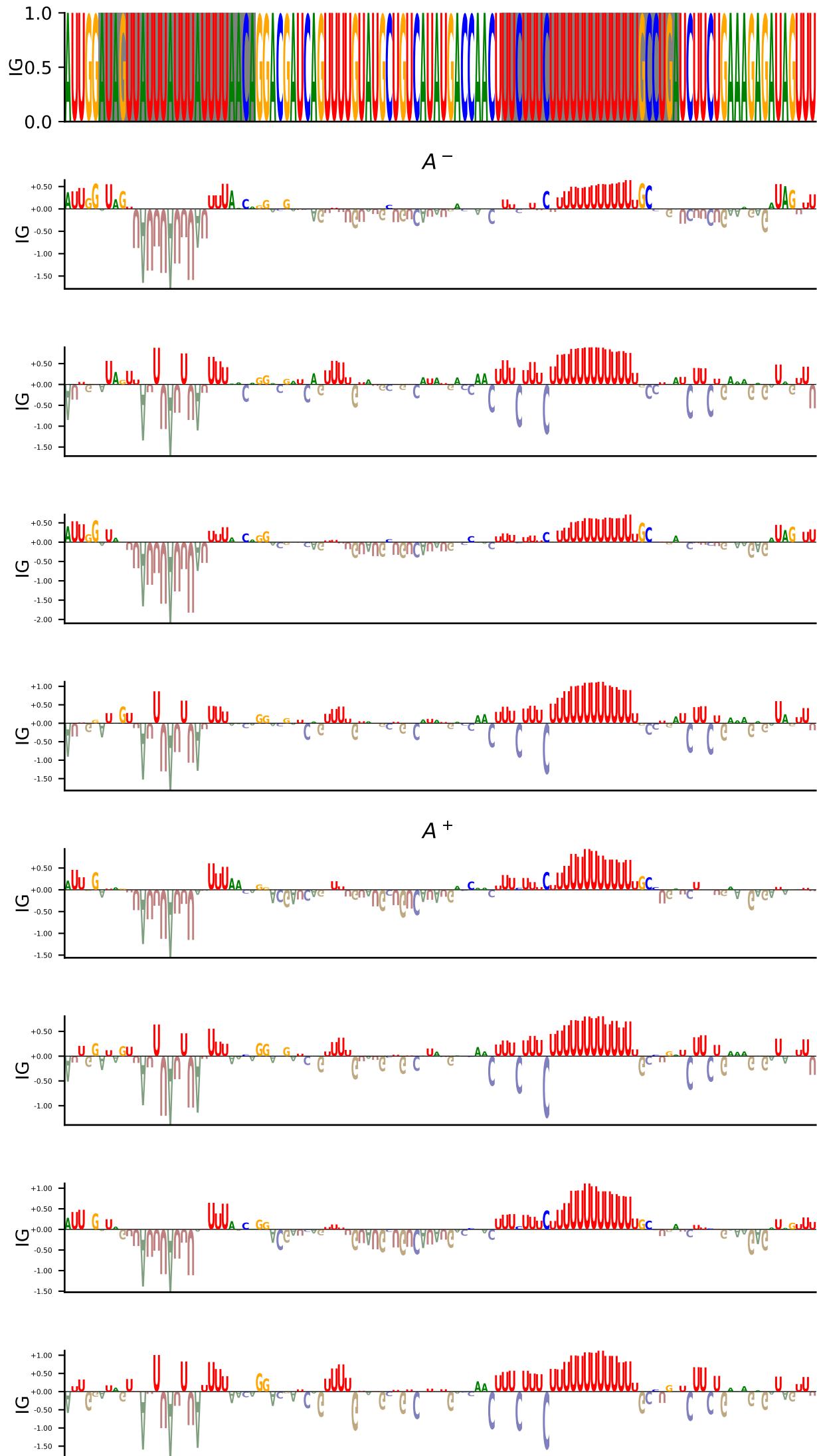
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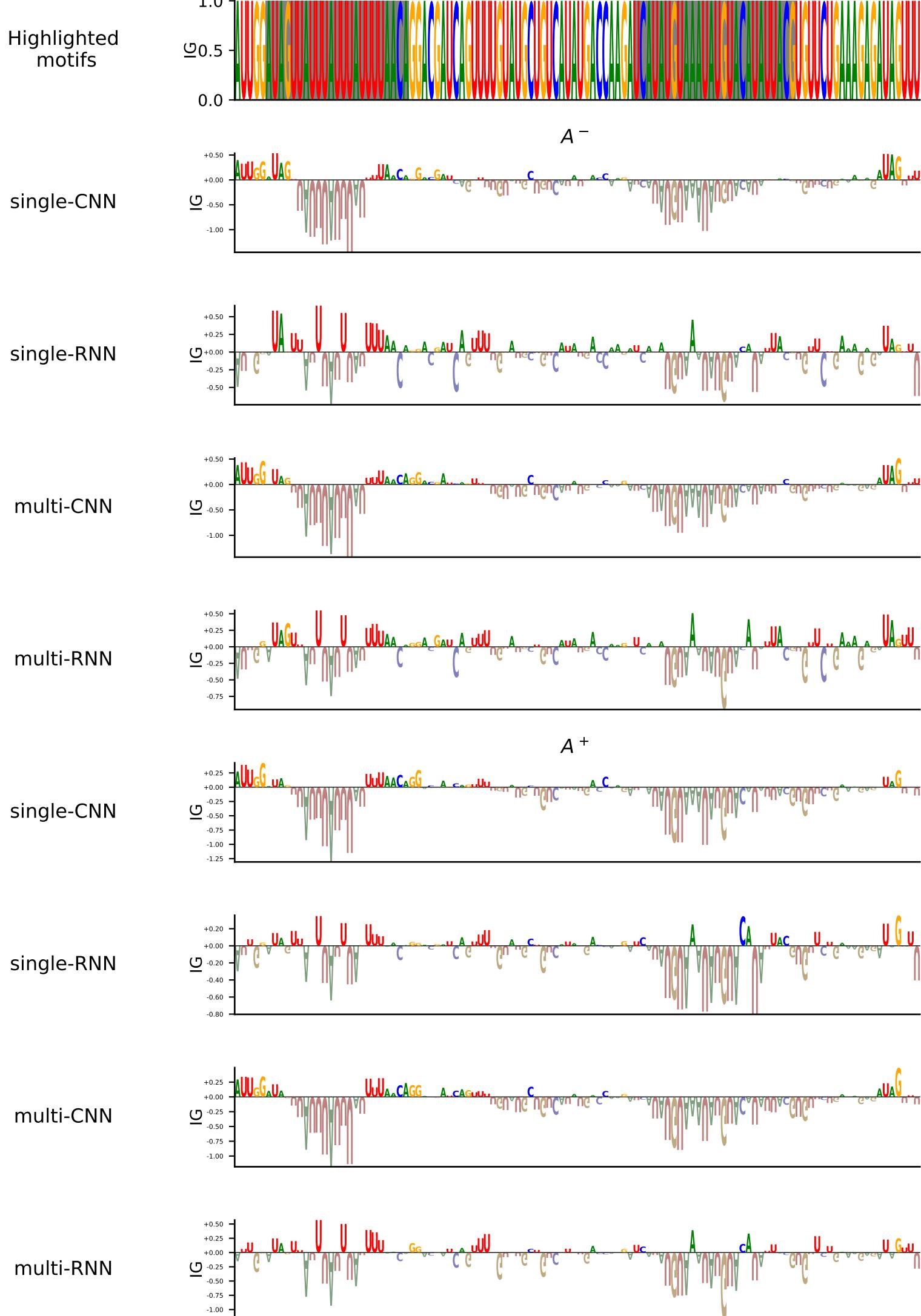




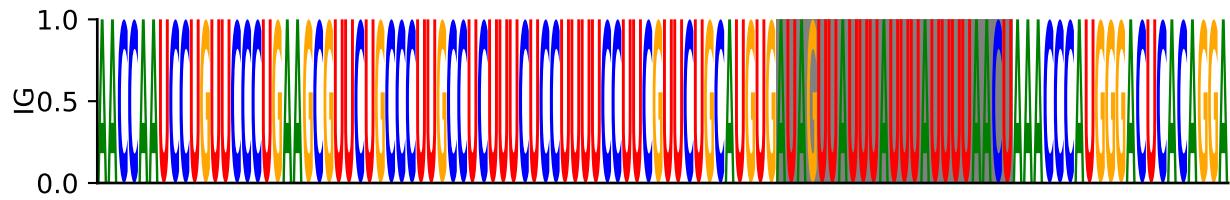


Highlighted motifs

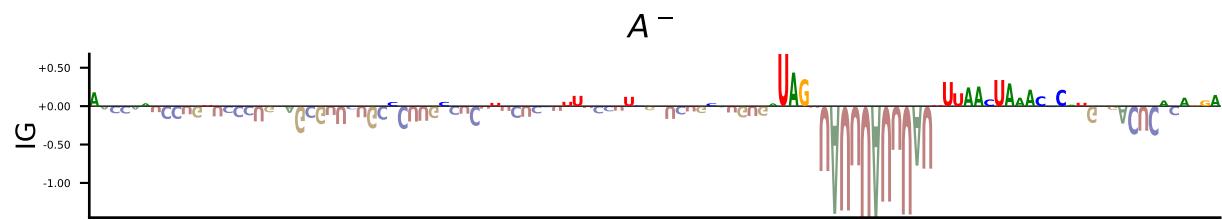




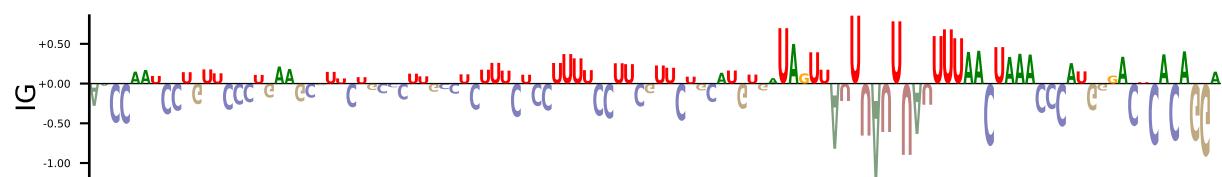
Highlighted motifs



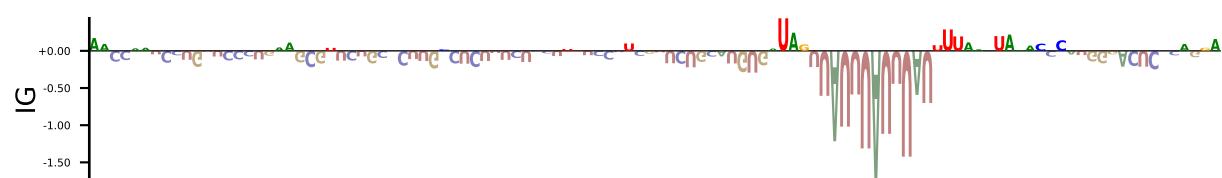
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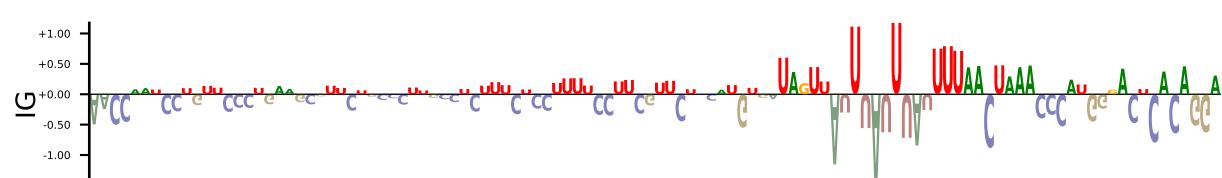
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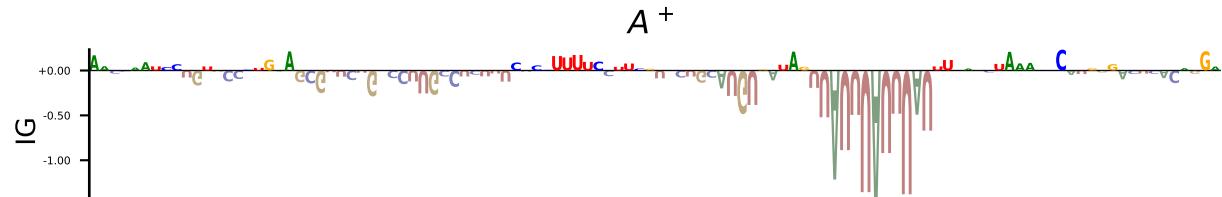
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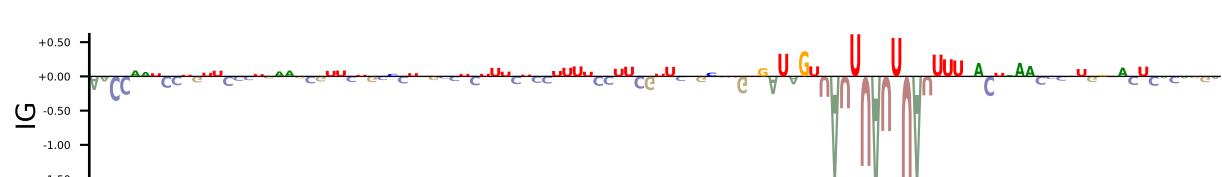
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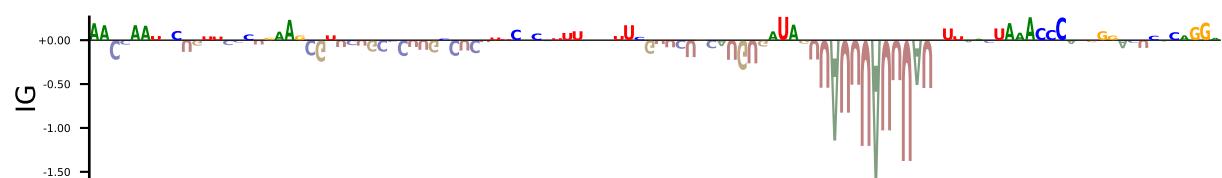
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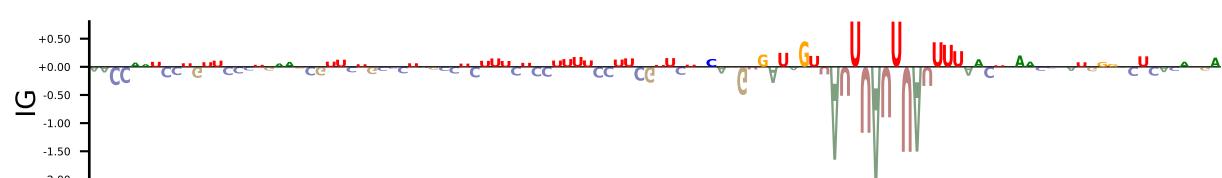
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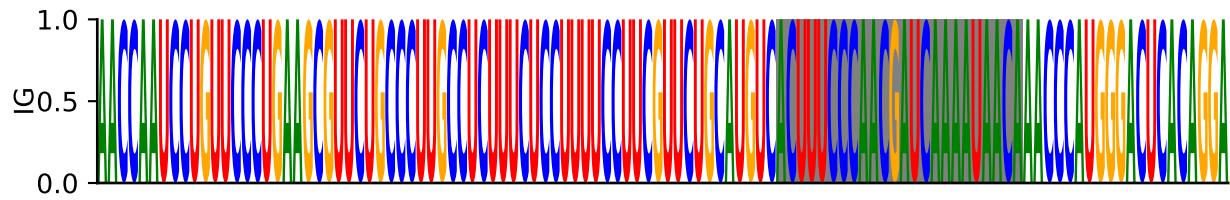
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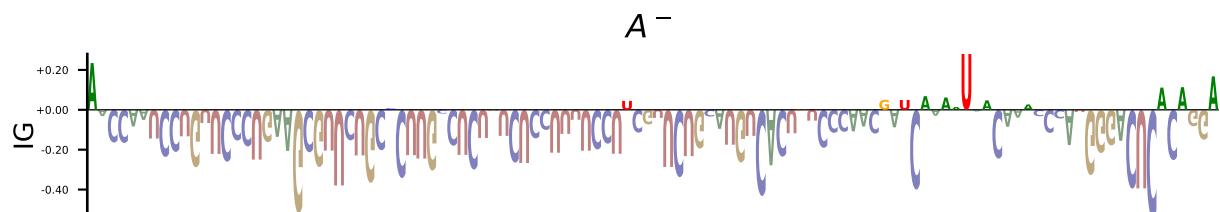
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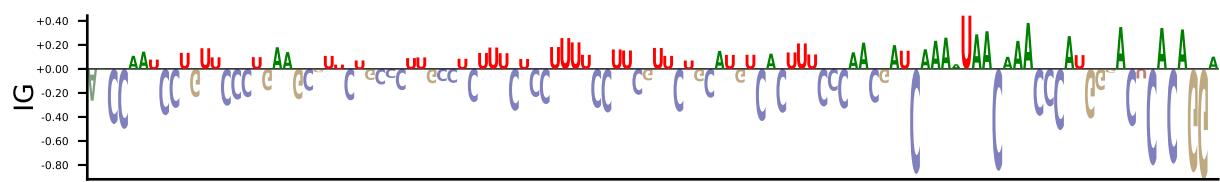
Highlighted motifs



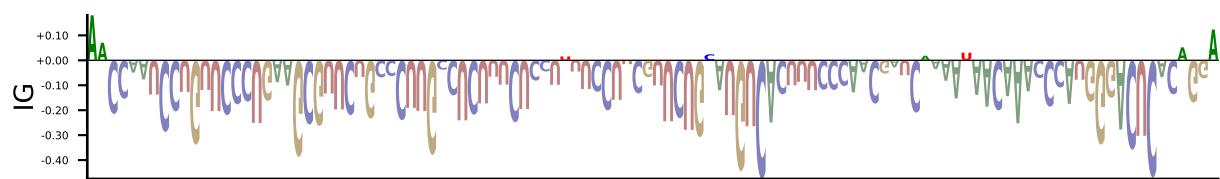
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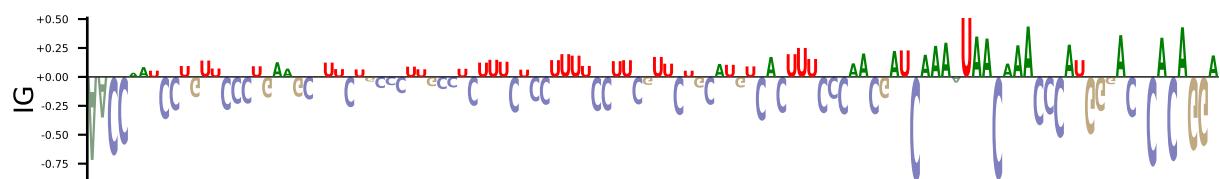
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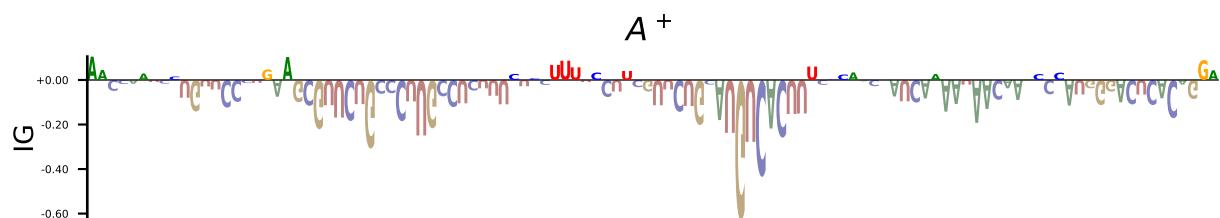
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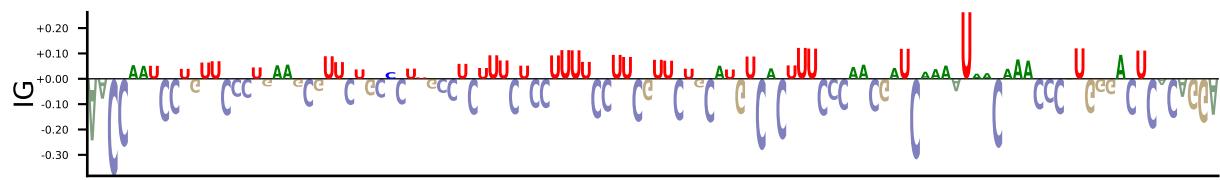
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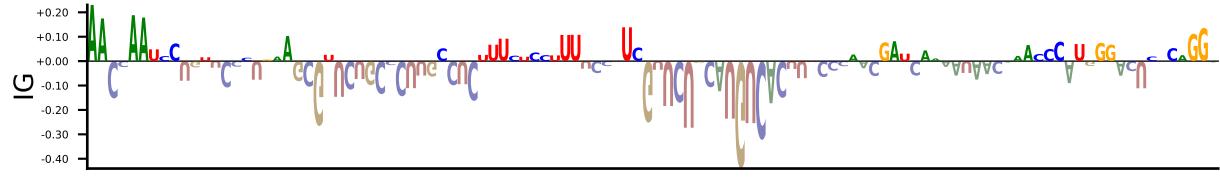
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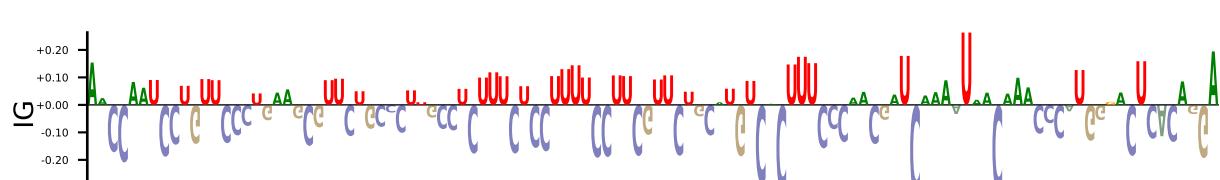
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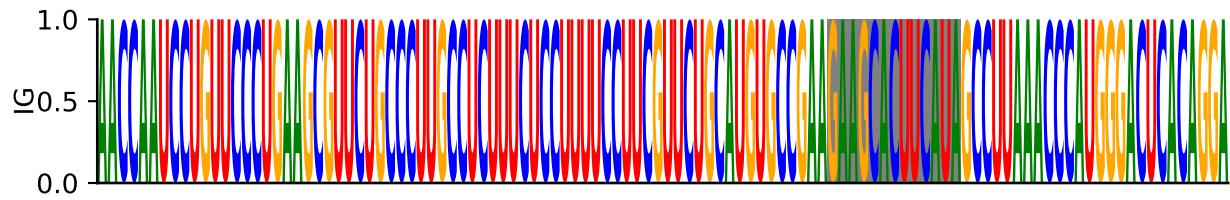
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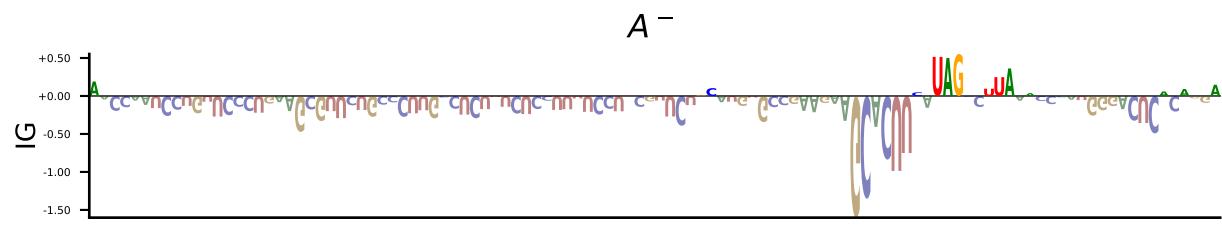
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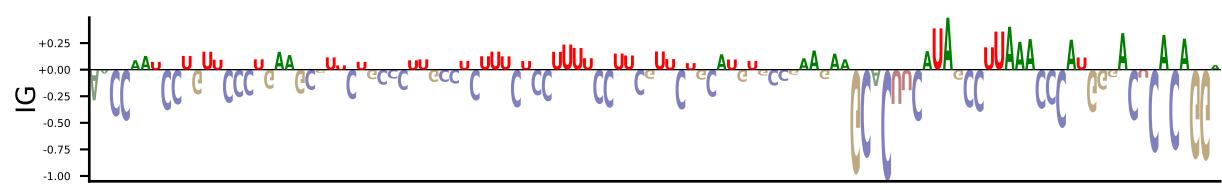
Highlighted motifs



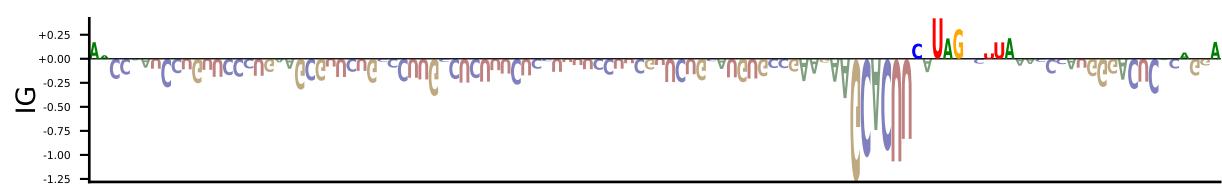
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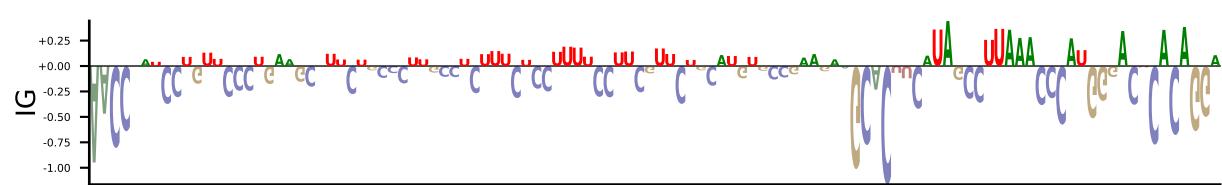
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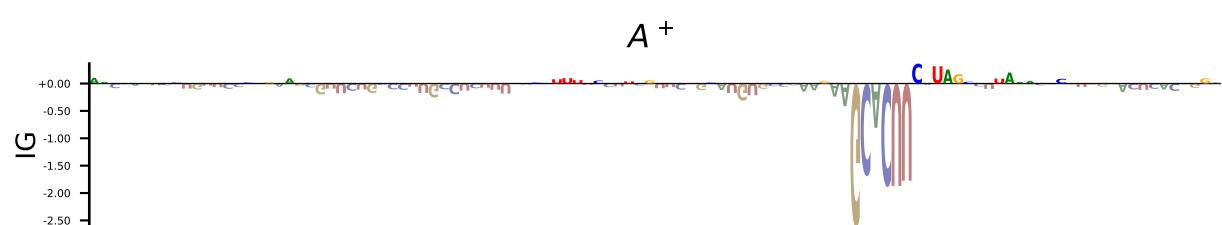
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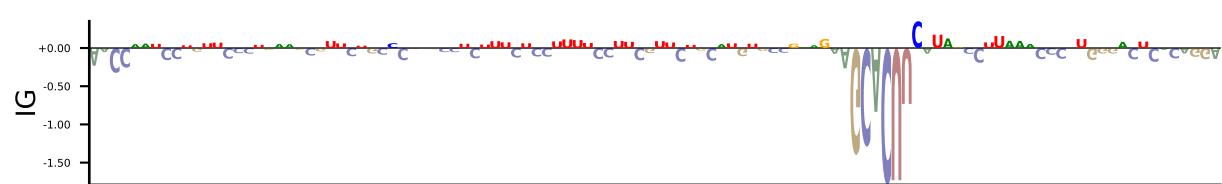
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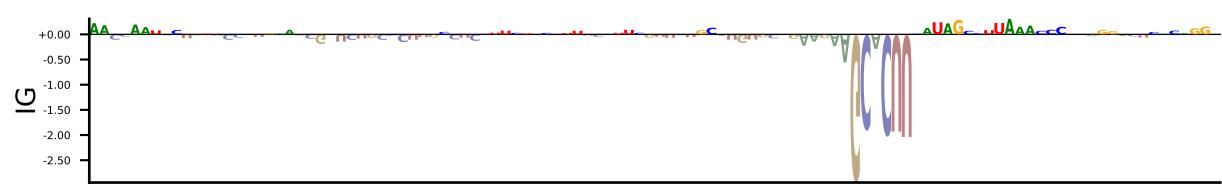
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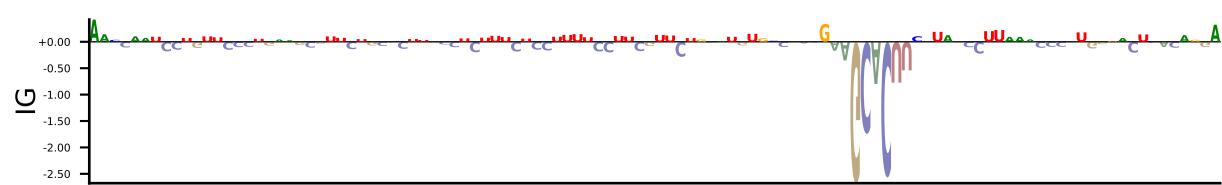
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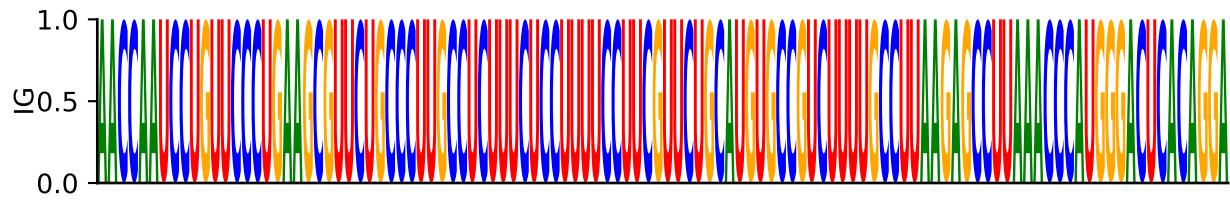
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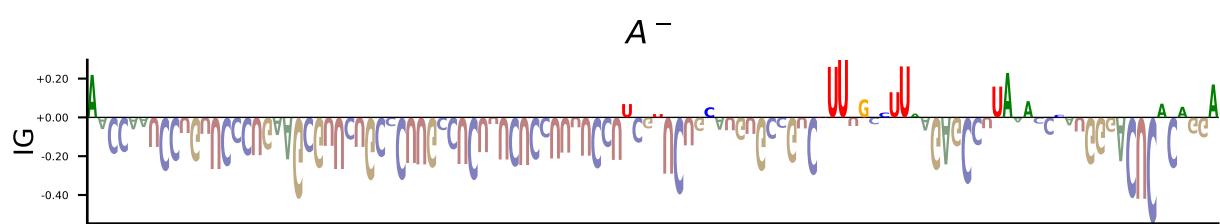
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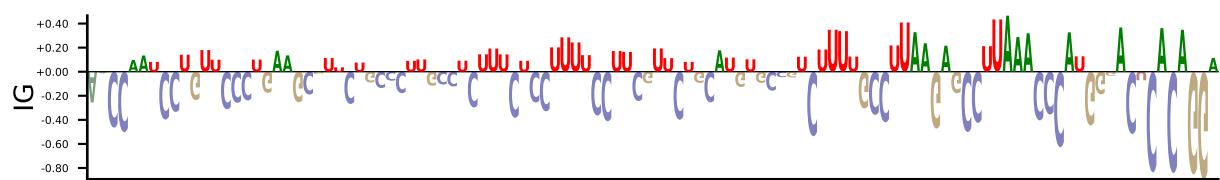
Highlighted motifs



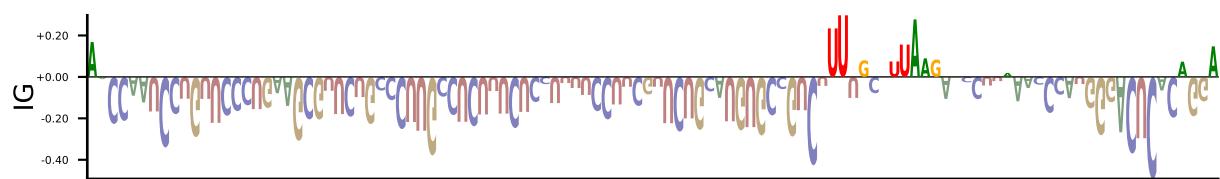
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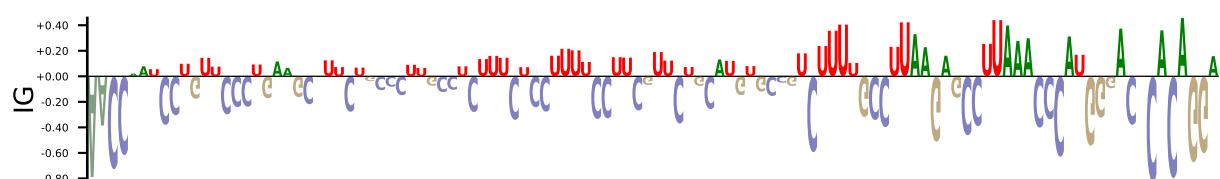
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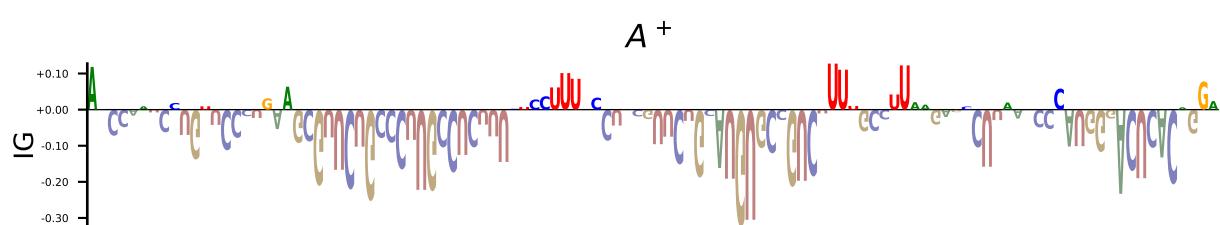
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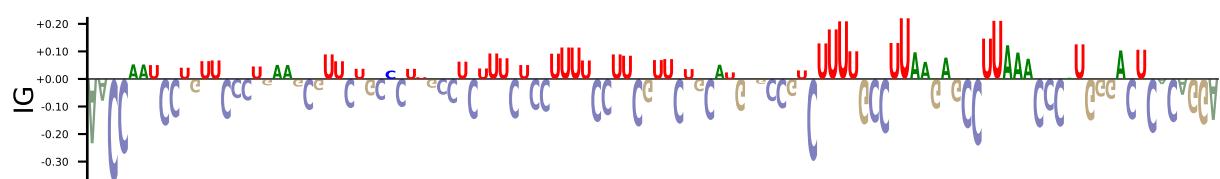
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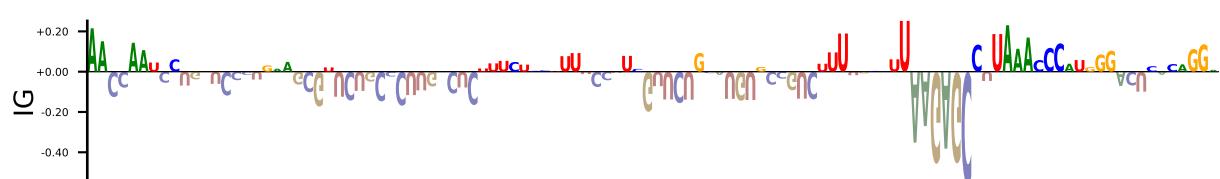
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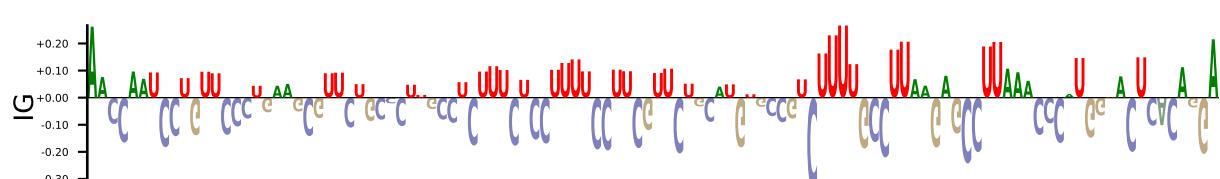
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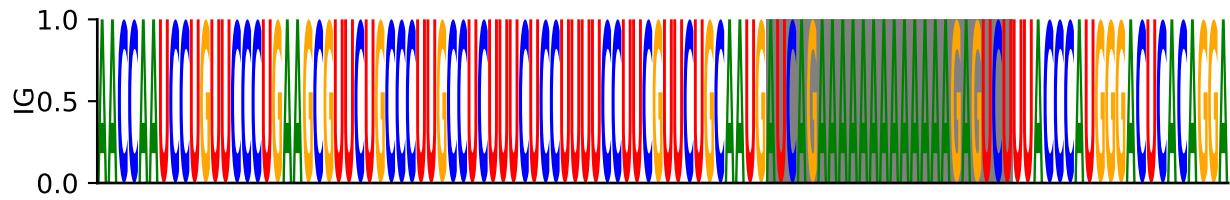
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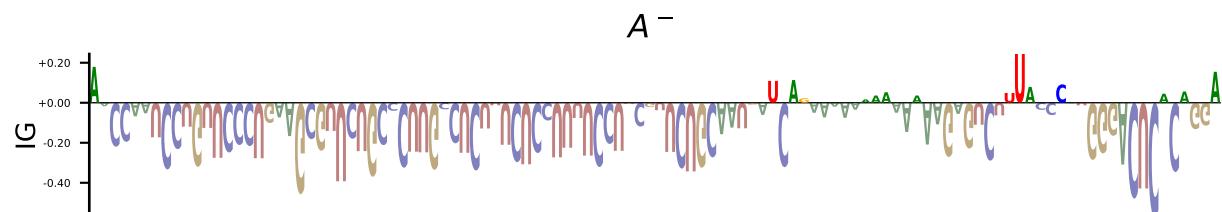
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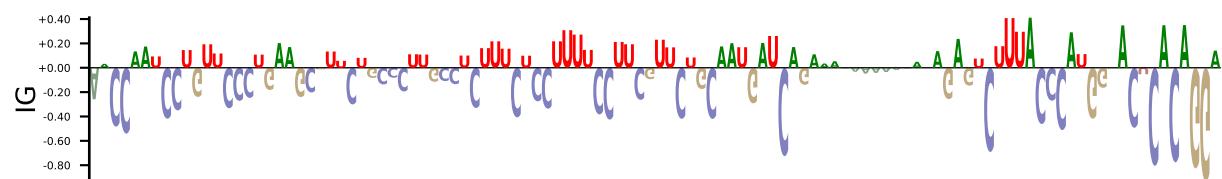
Highlighted motifs



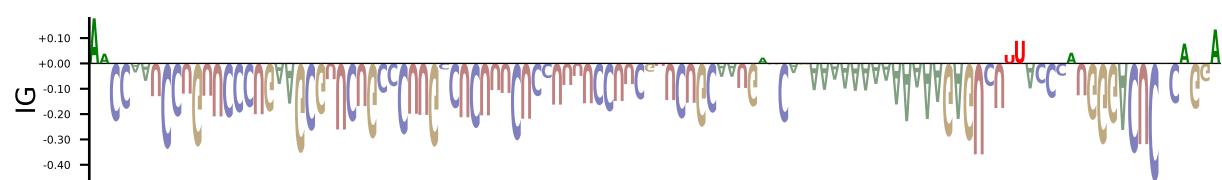
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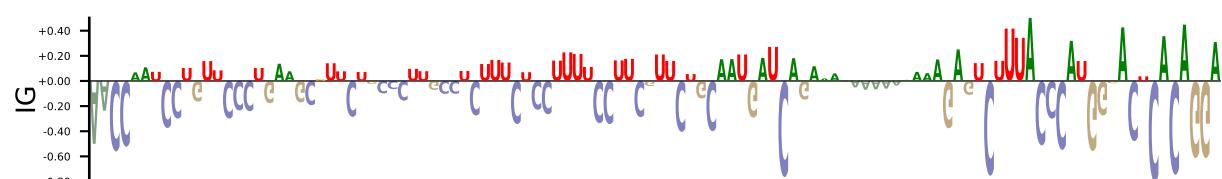
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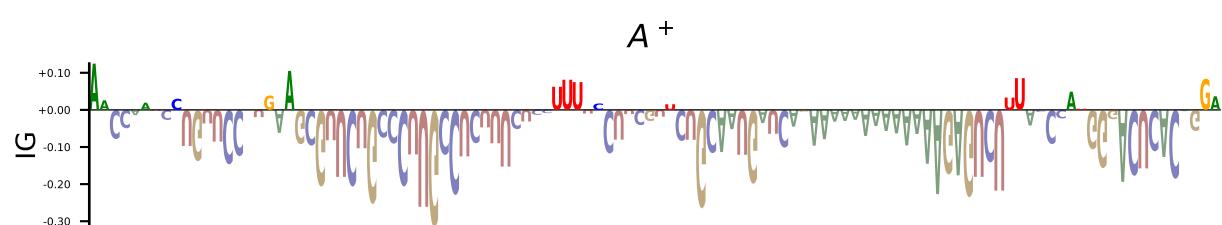
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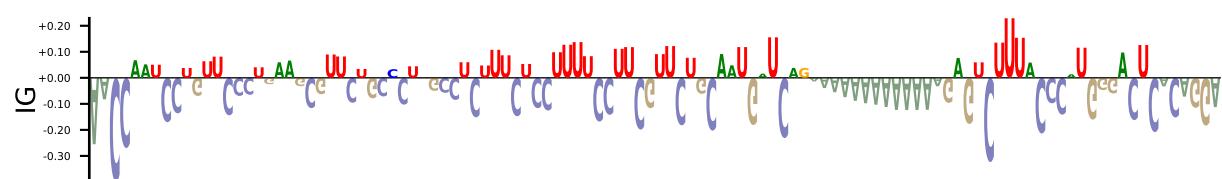
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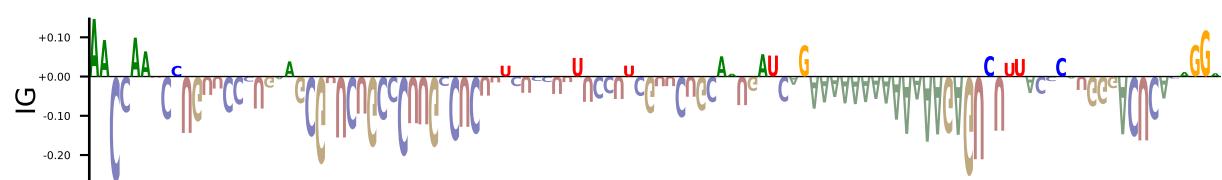
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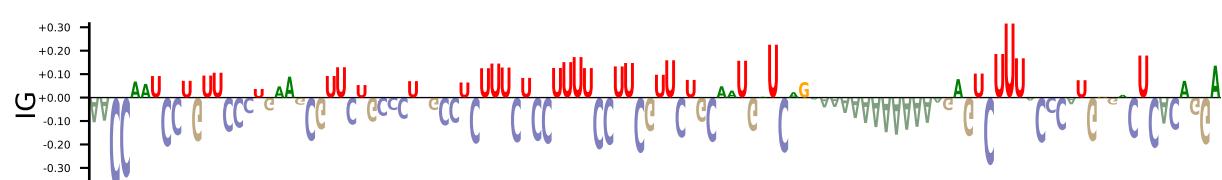
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multi-CNN

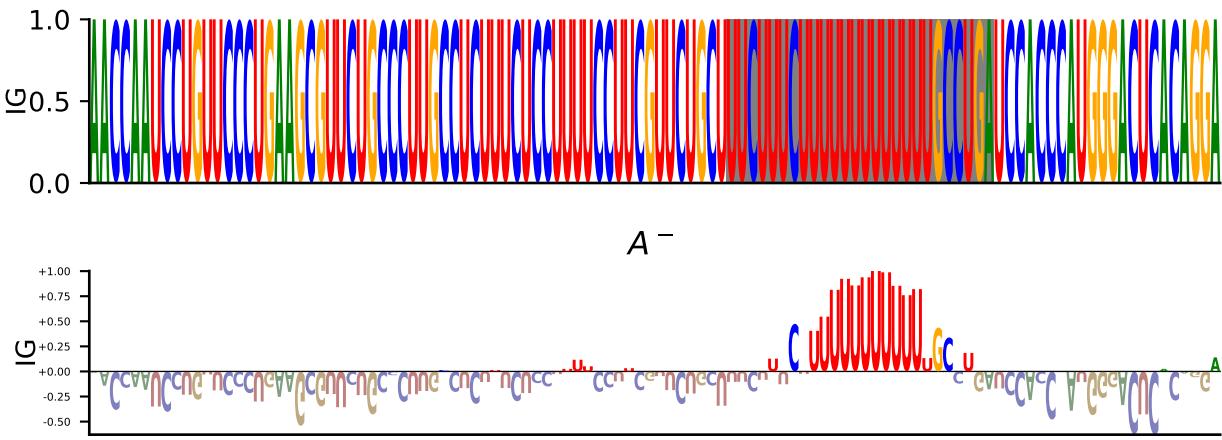


multi-RNN

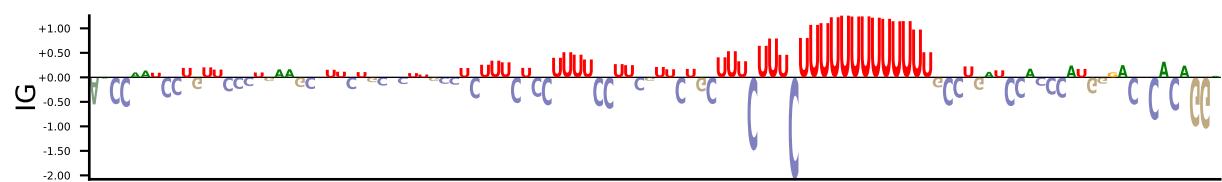


Highlighted motifs

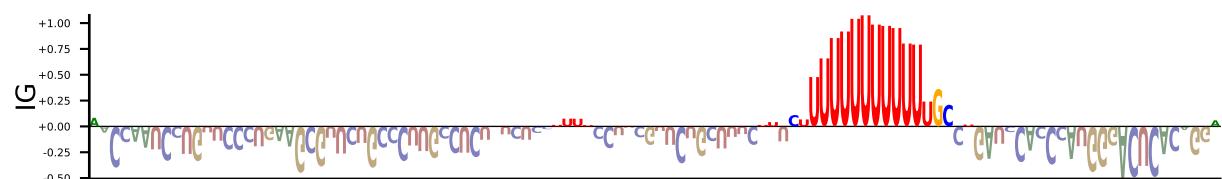
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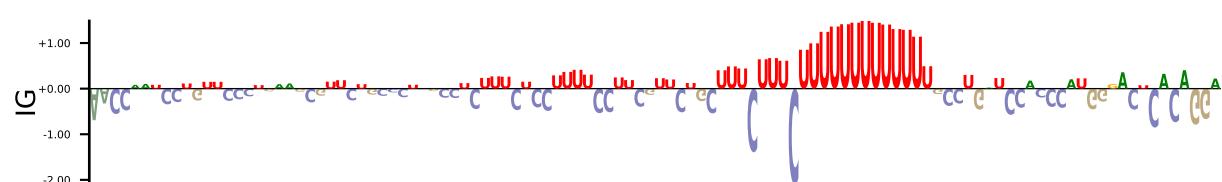
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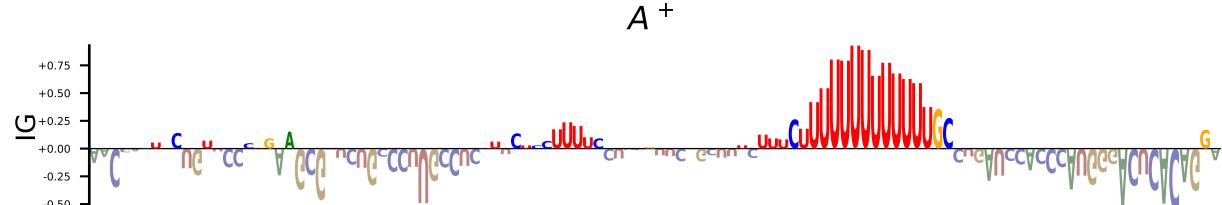
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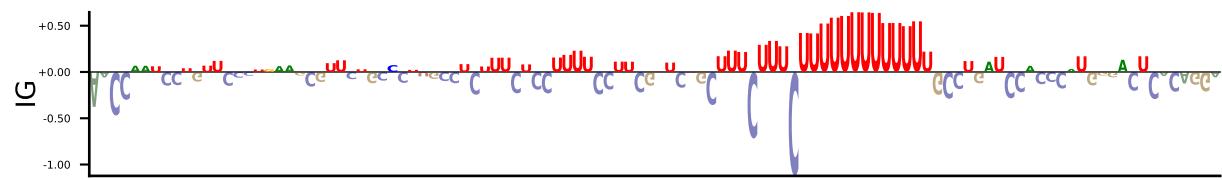
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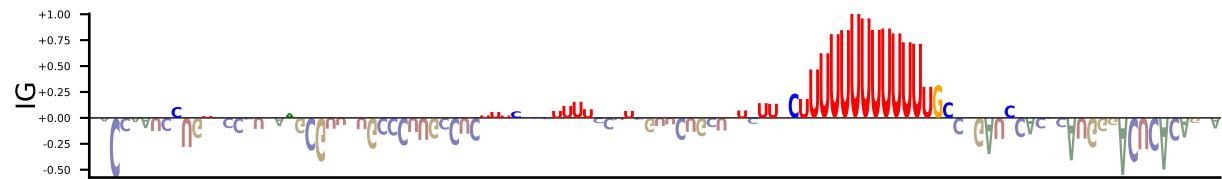
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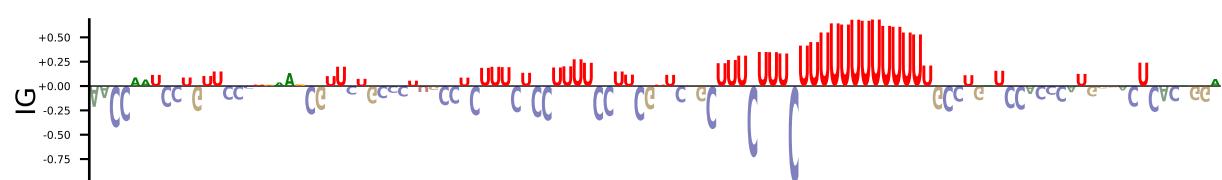
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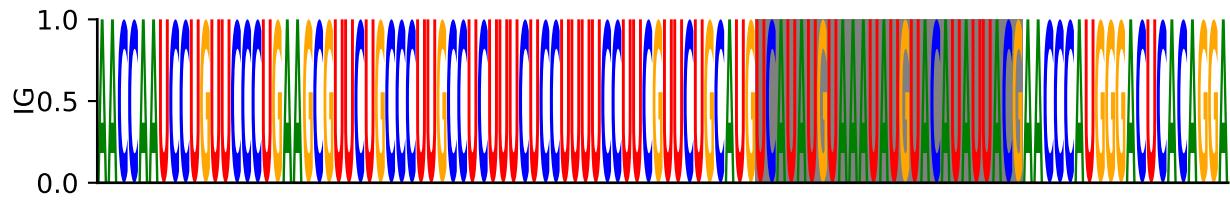
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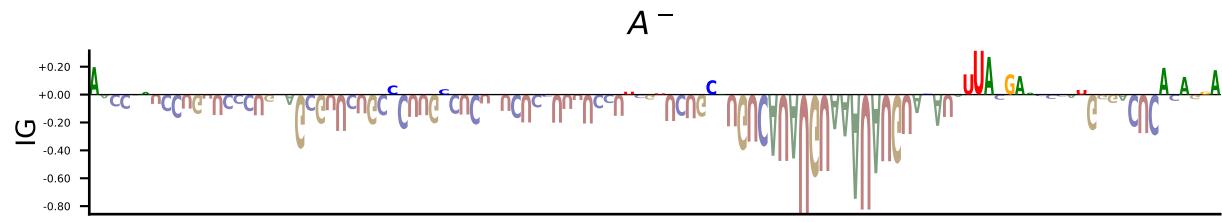
multi-RNN



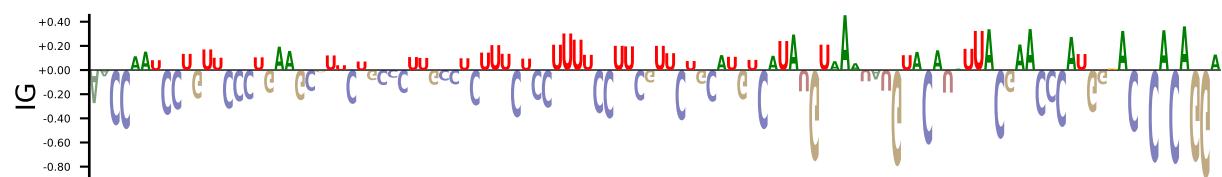
Highlighted motifs



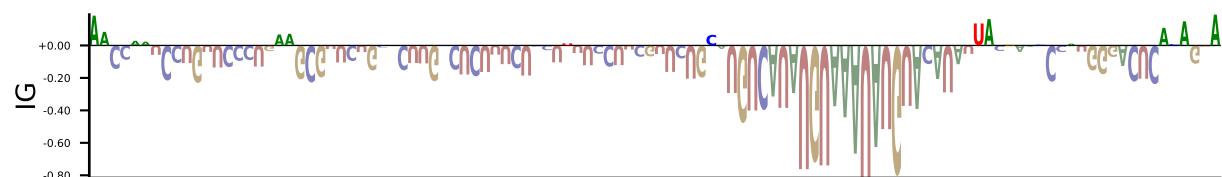
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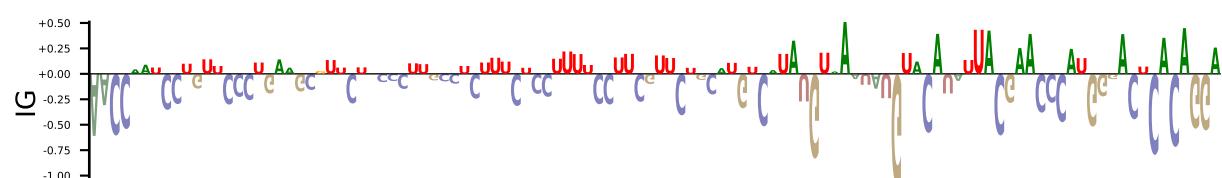
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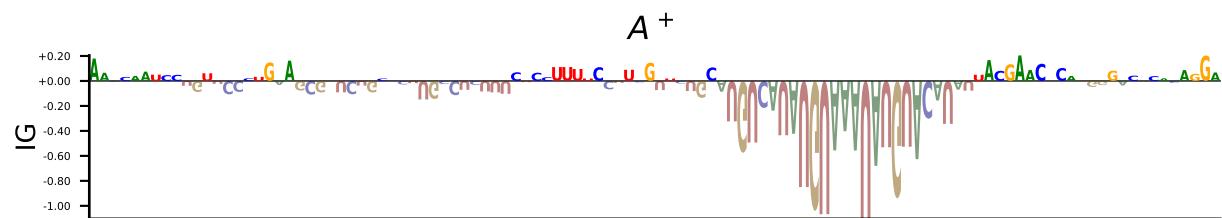
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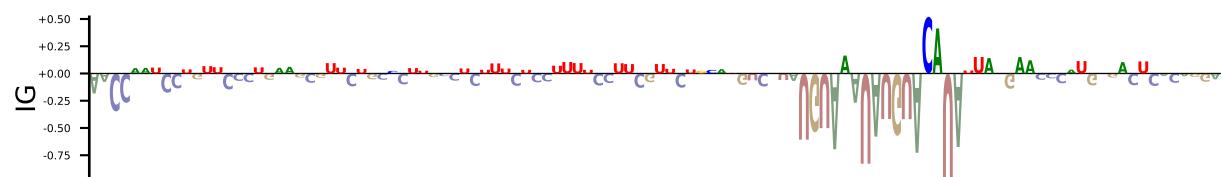
multi-RNN



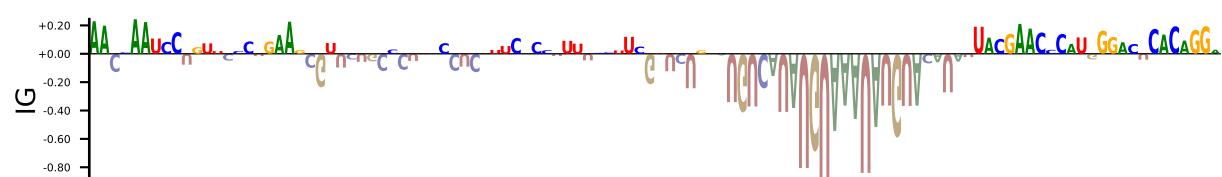
single-CNN



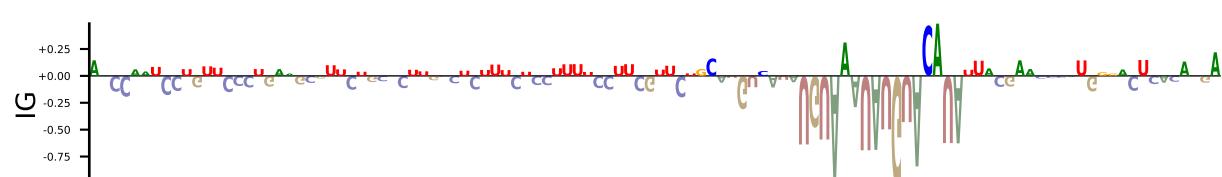
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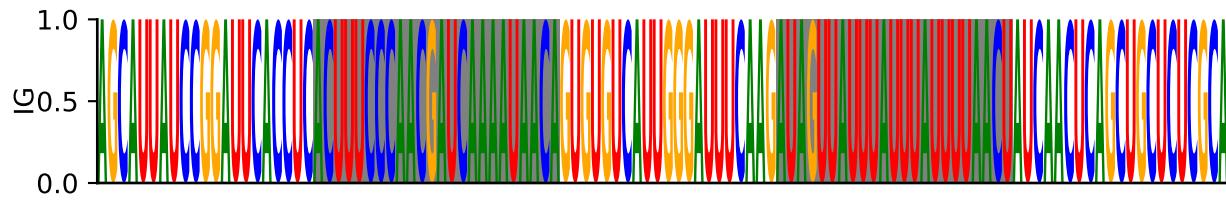
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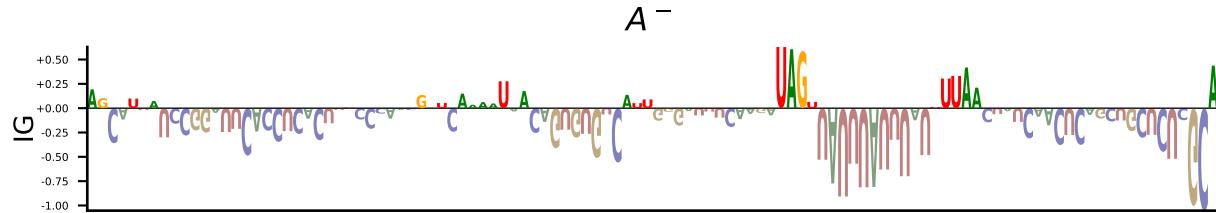
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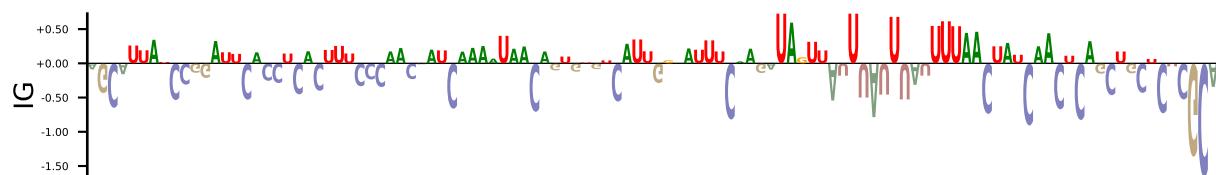
Highlighted motifs



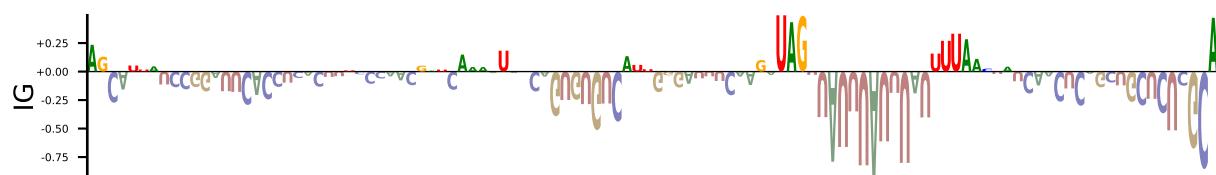
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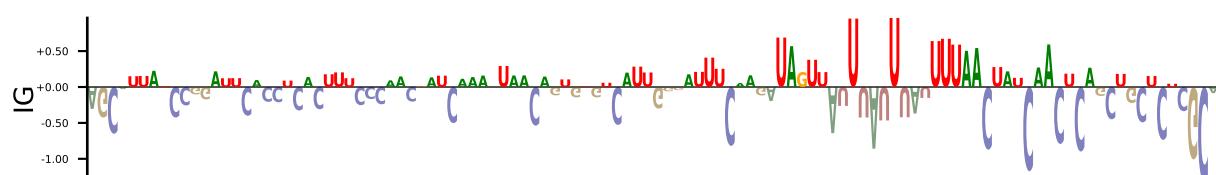
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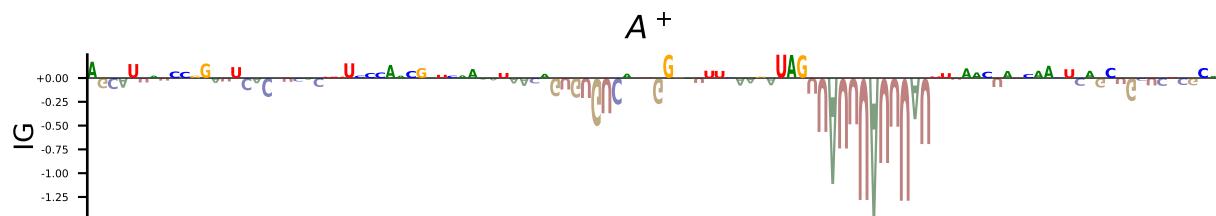
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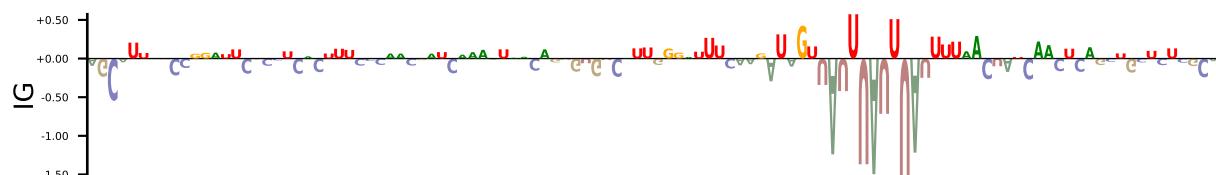
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single-CNN



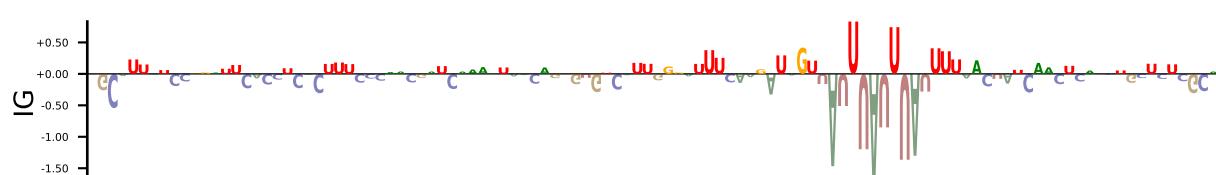
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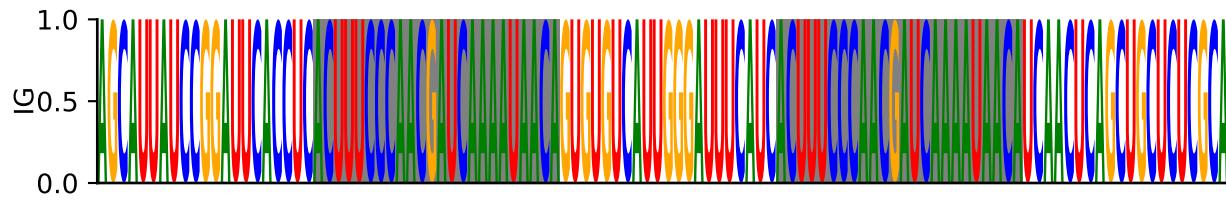
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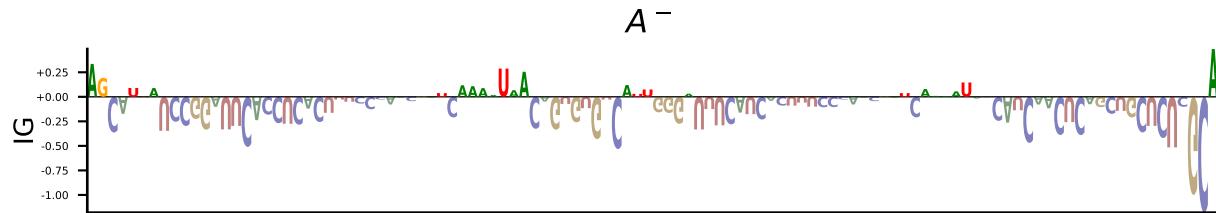
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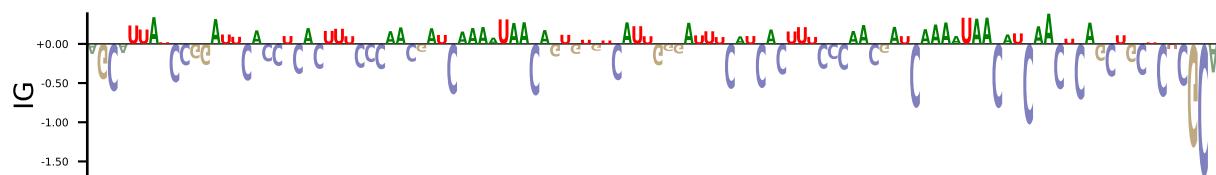
Highlighted motifs



single-CNN



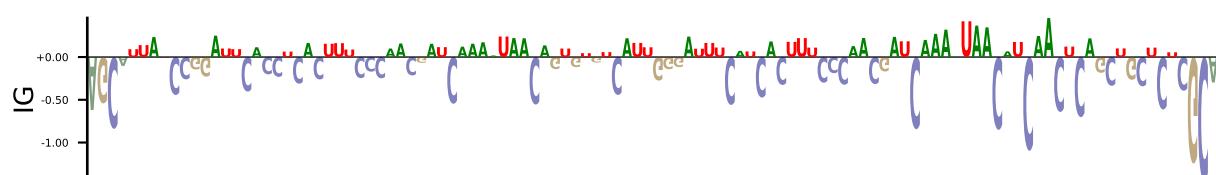
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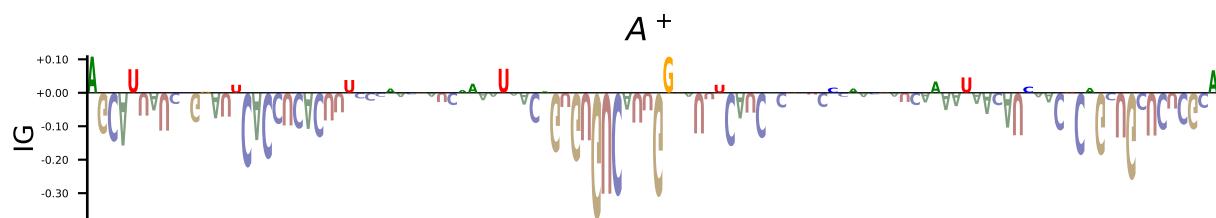
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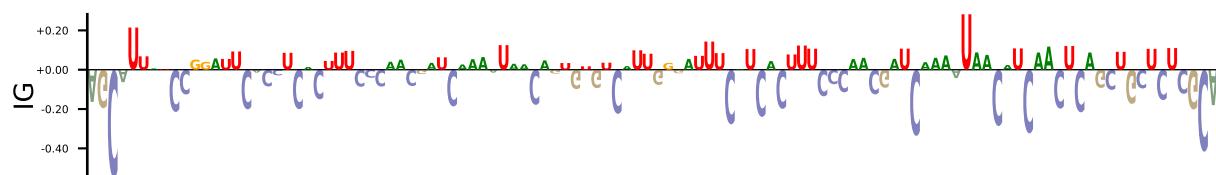
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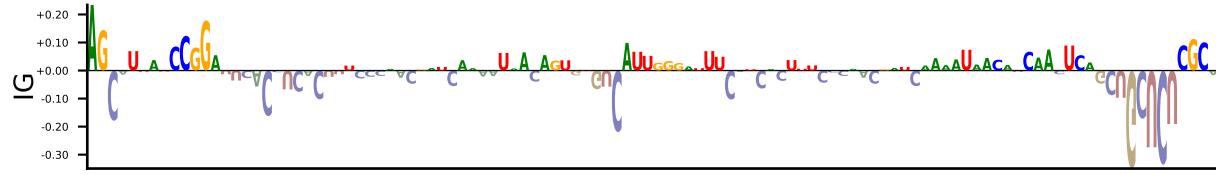
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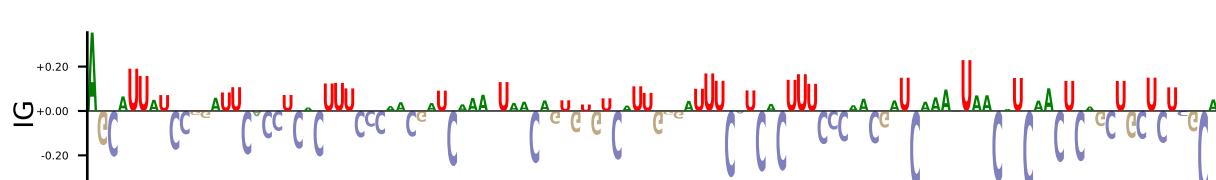
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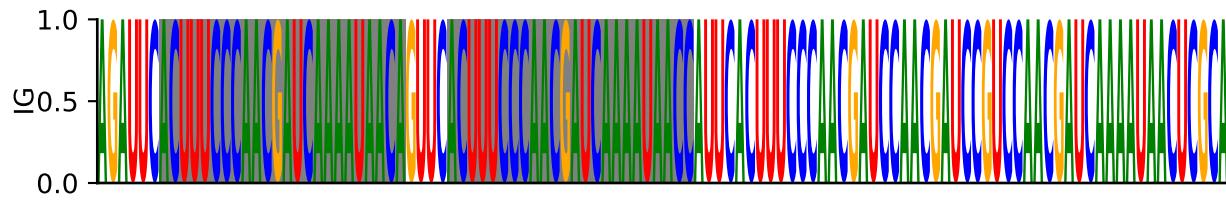
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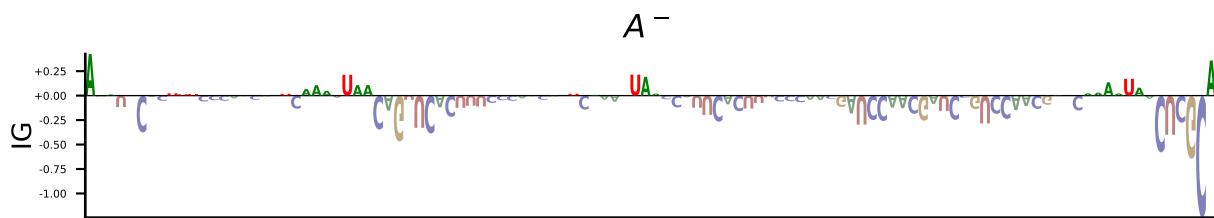
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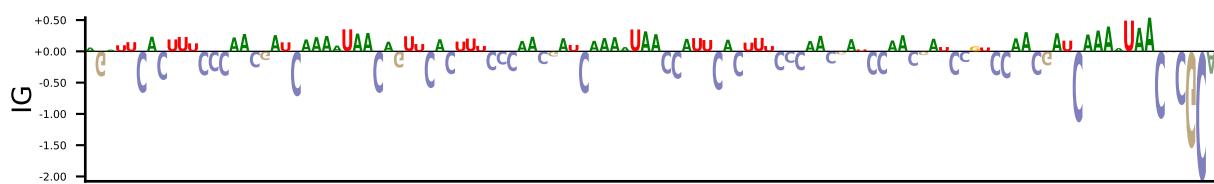
Highlighted motifs



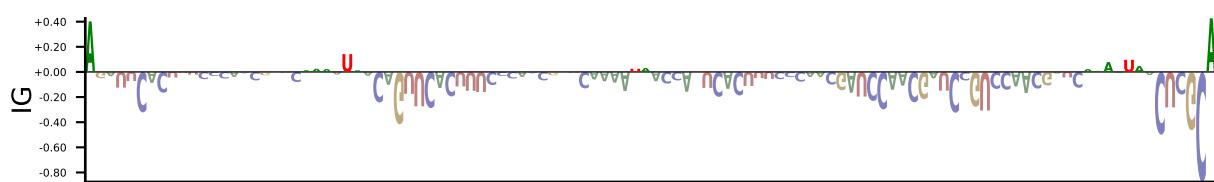
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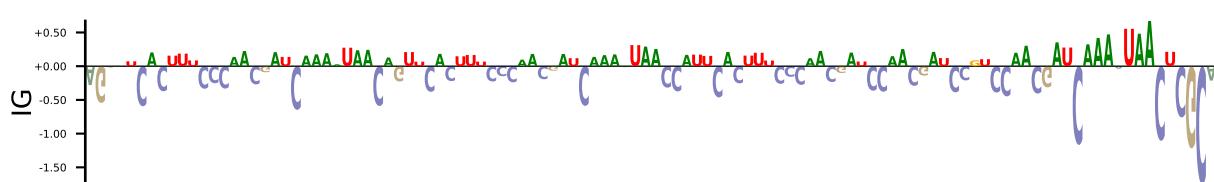
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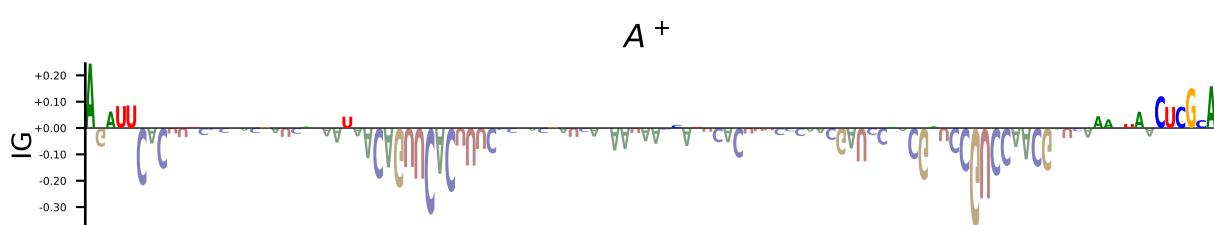
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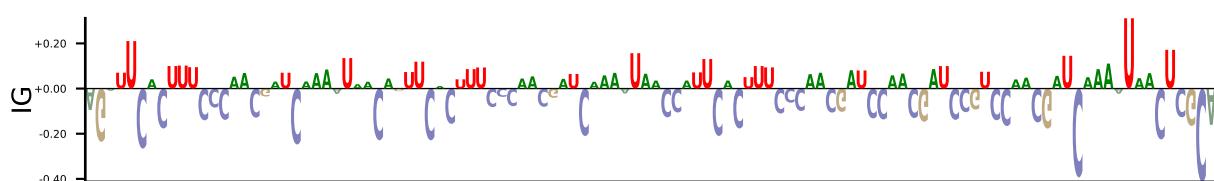
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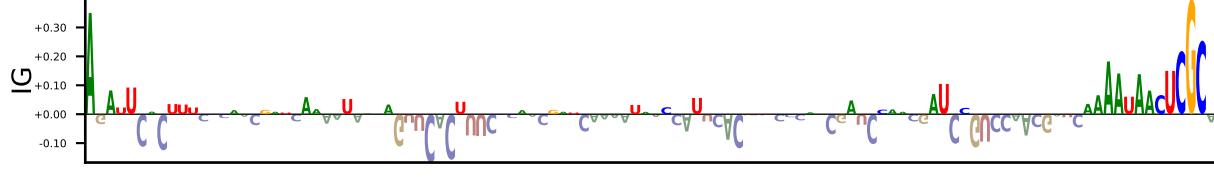
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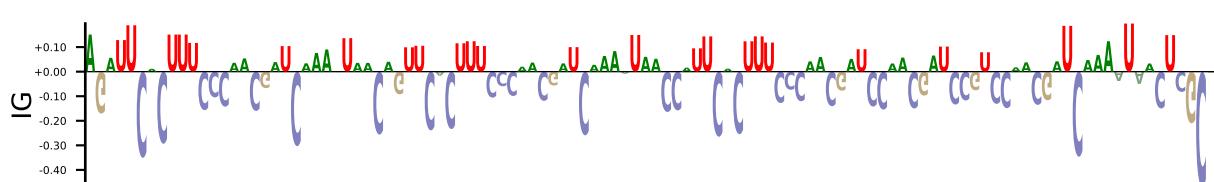
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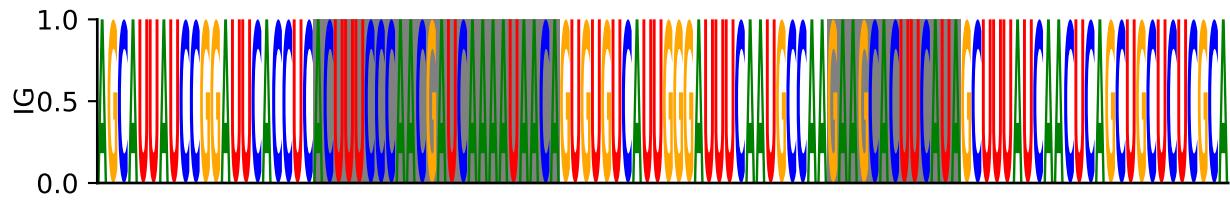
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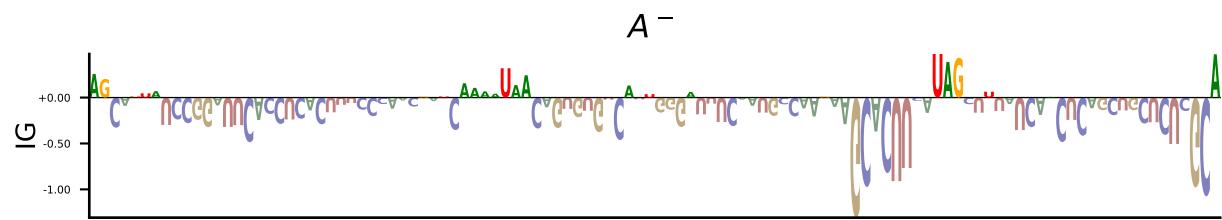
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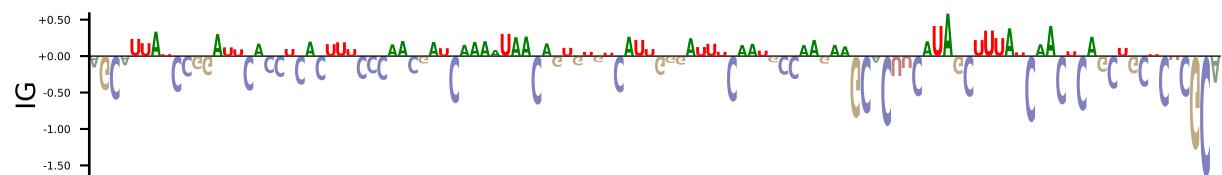
Highlighted motifs



single-CNN



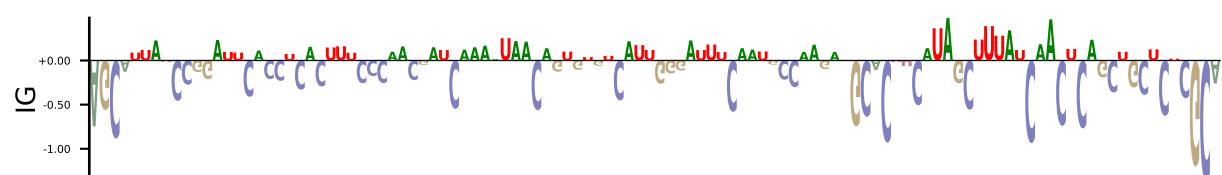
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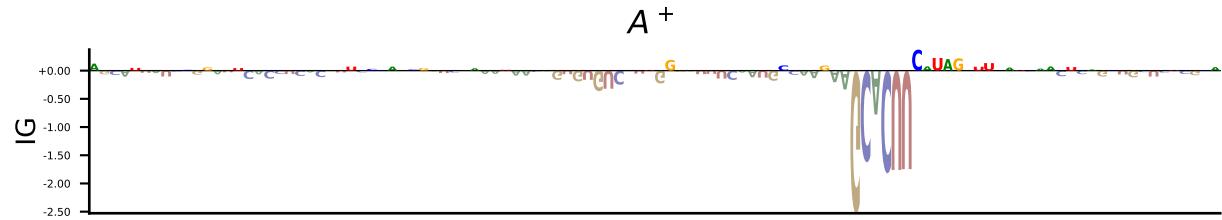
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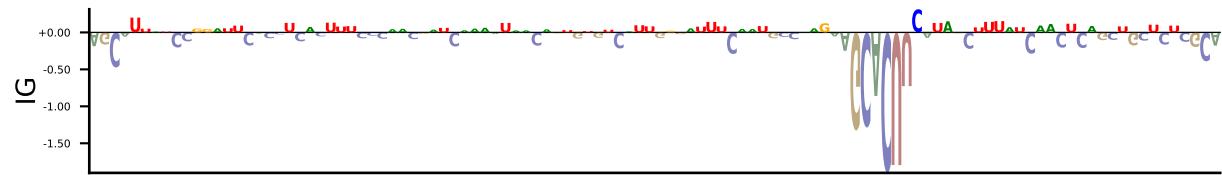
multi-RNN



single-CNN



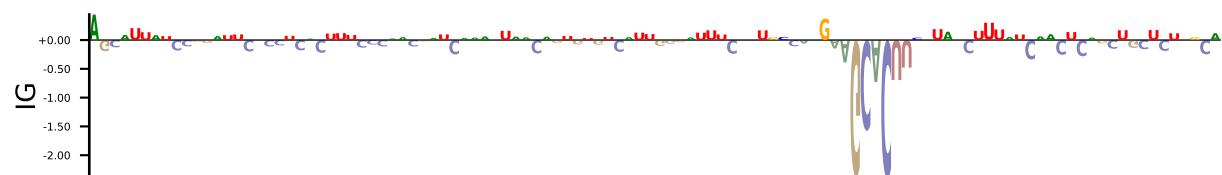
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multi-CNN



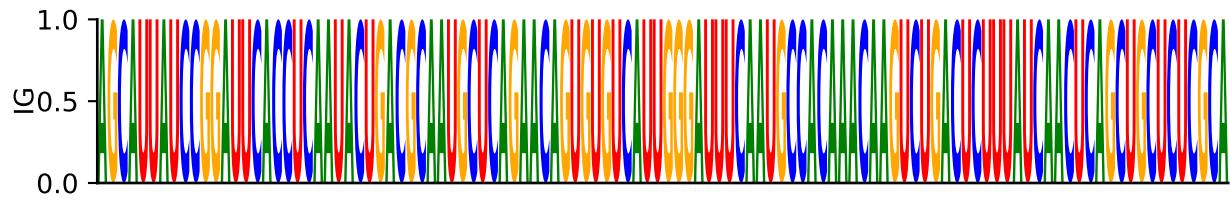
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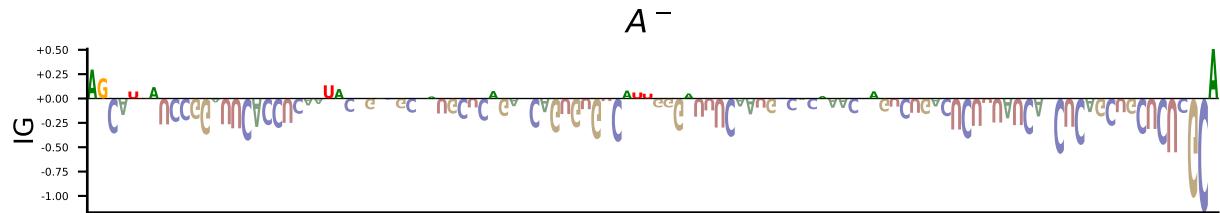
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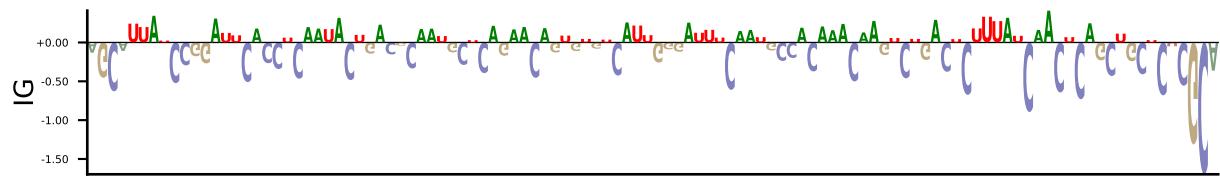
Highlighted motifs



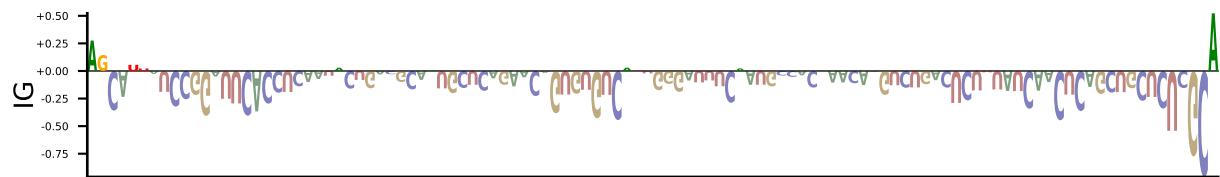
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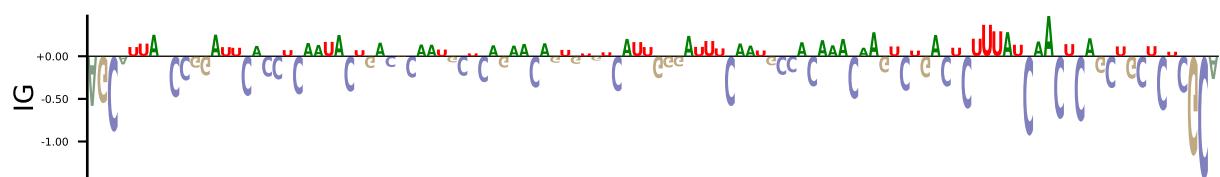
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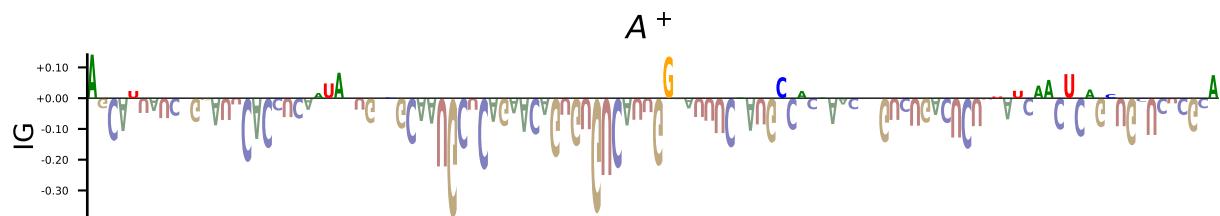
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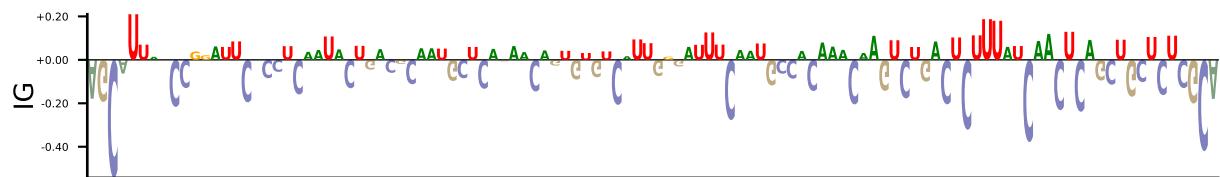
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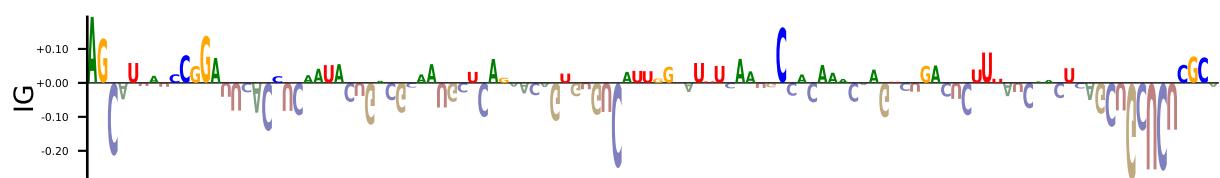
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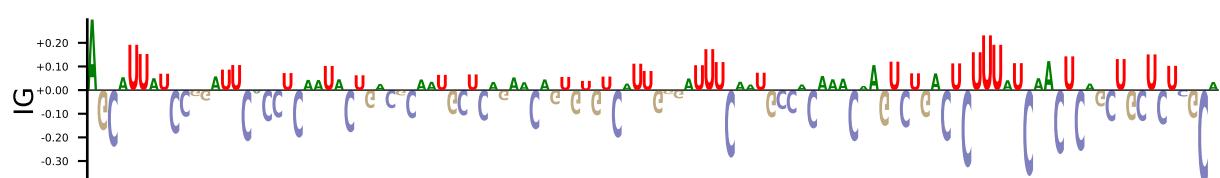
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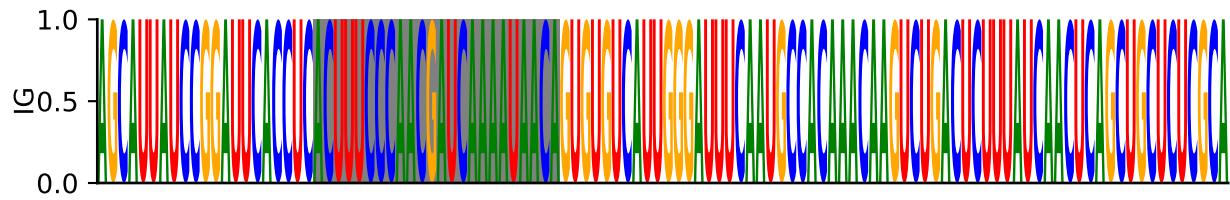
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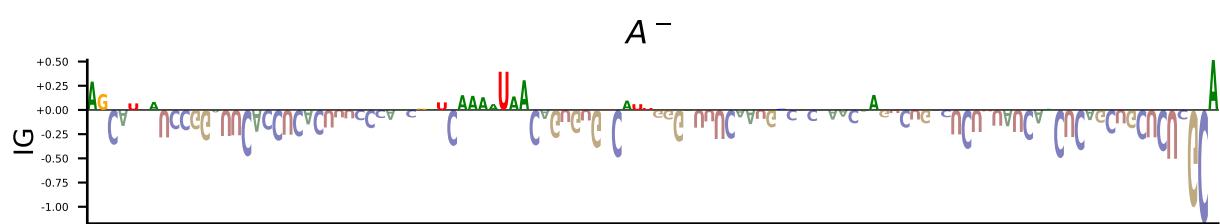
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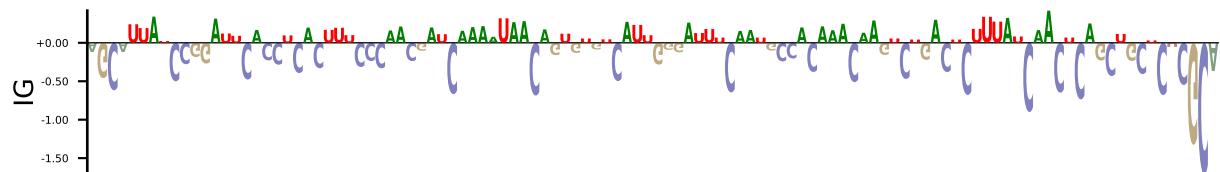
Highlighted motifs



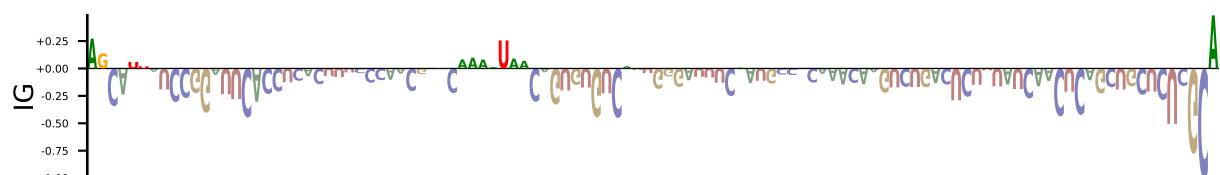
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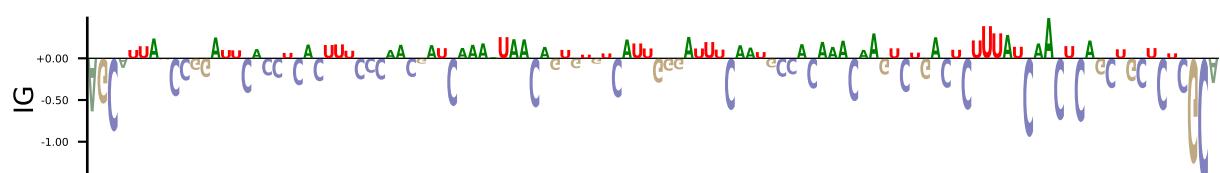
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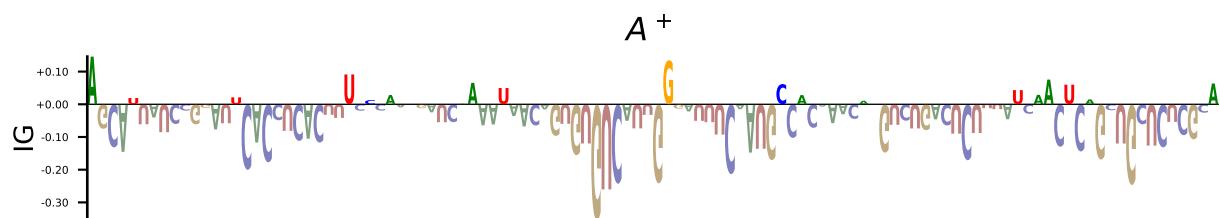
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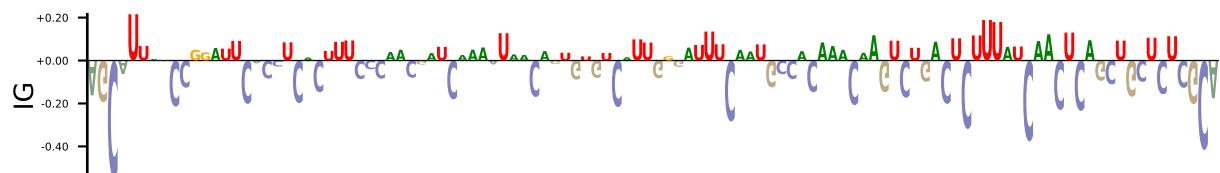
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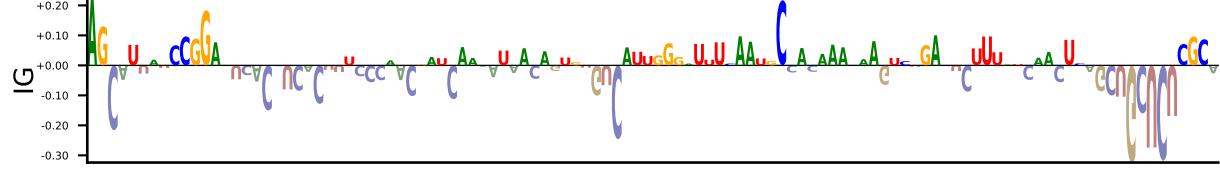
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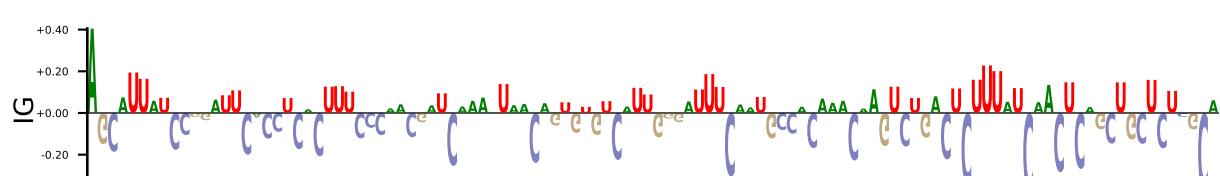
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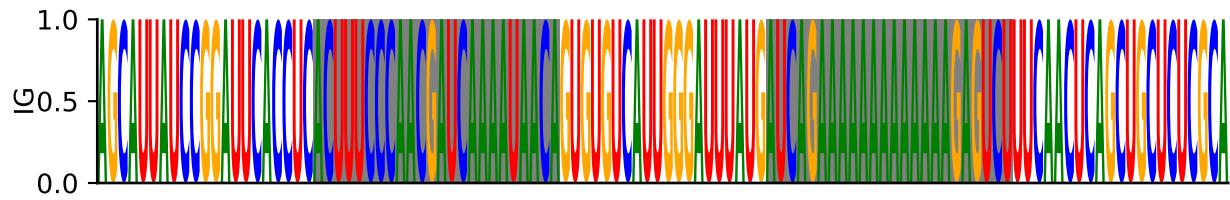
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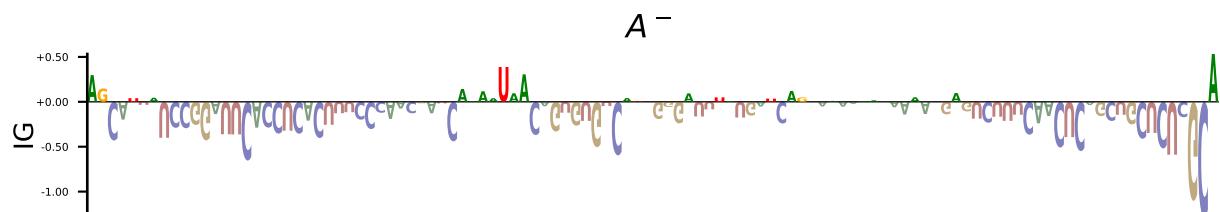
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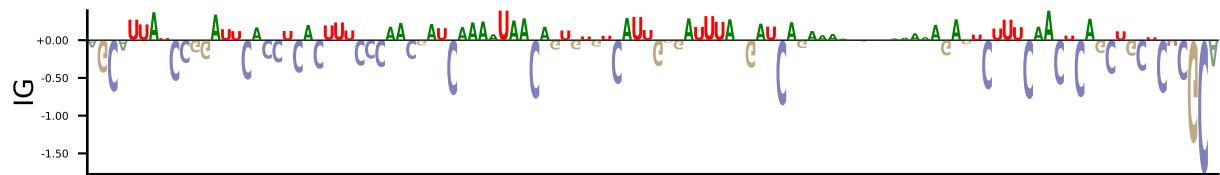
Highlighted motifs



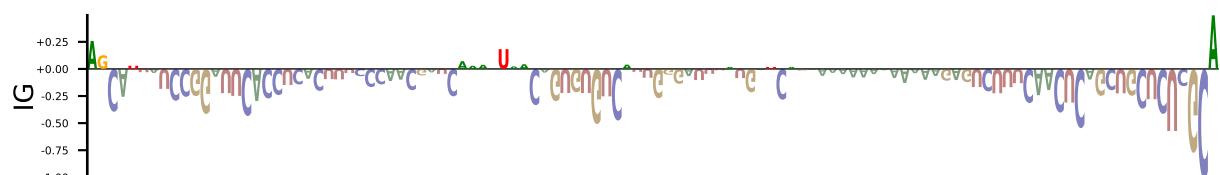
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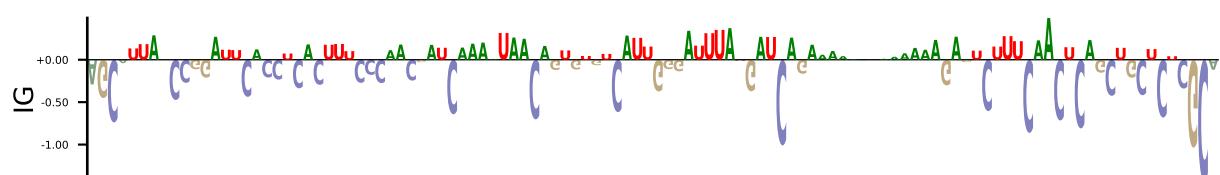
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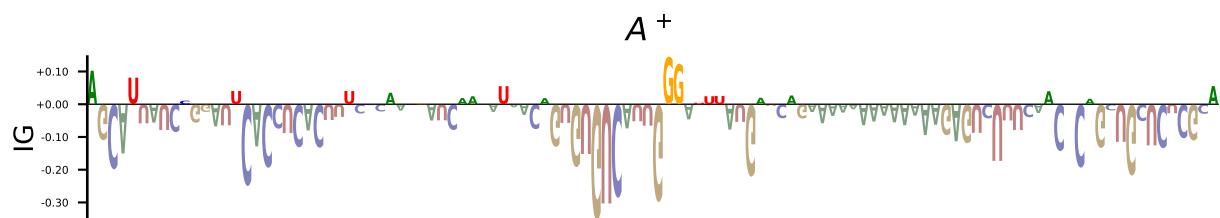
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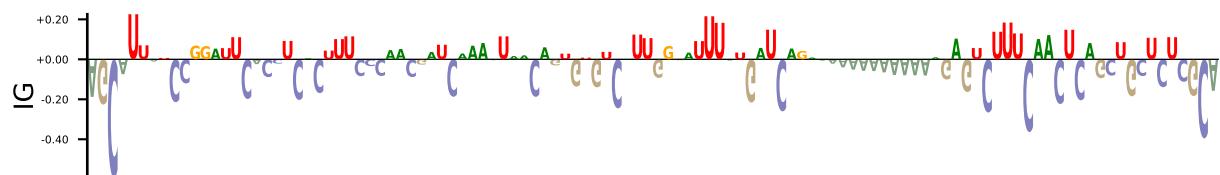
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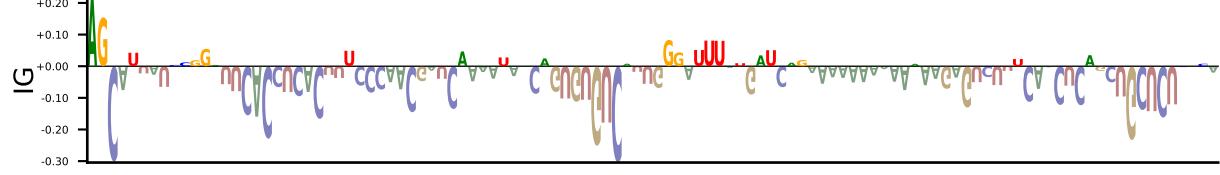
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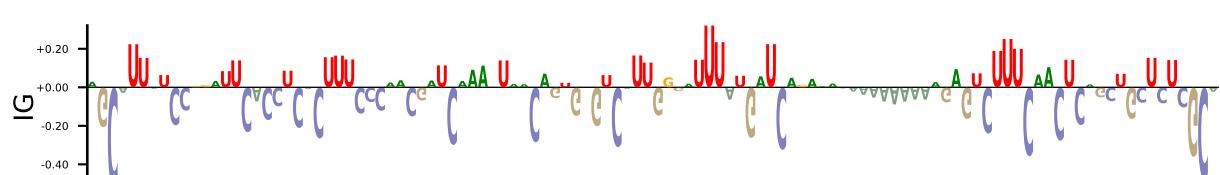
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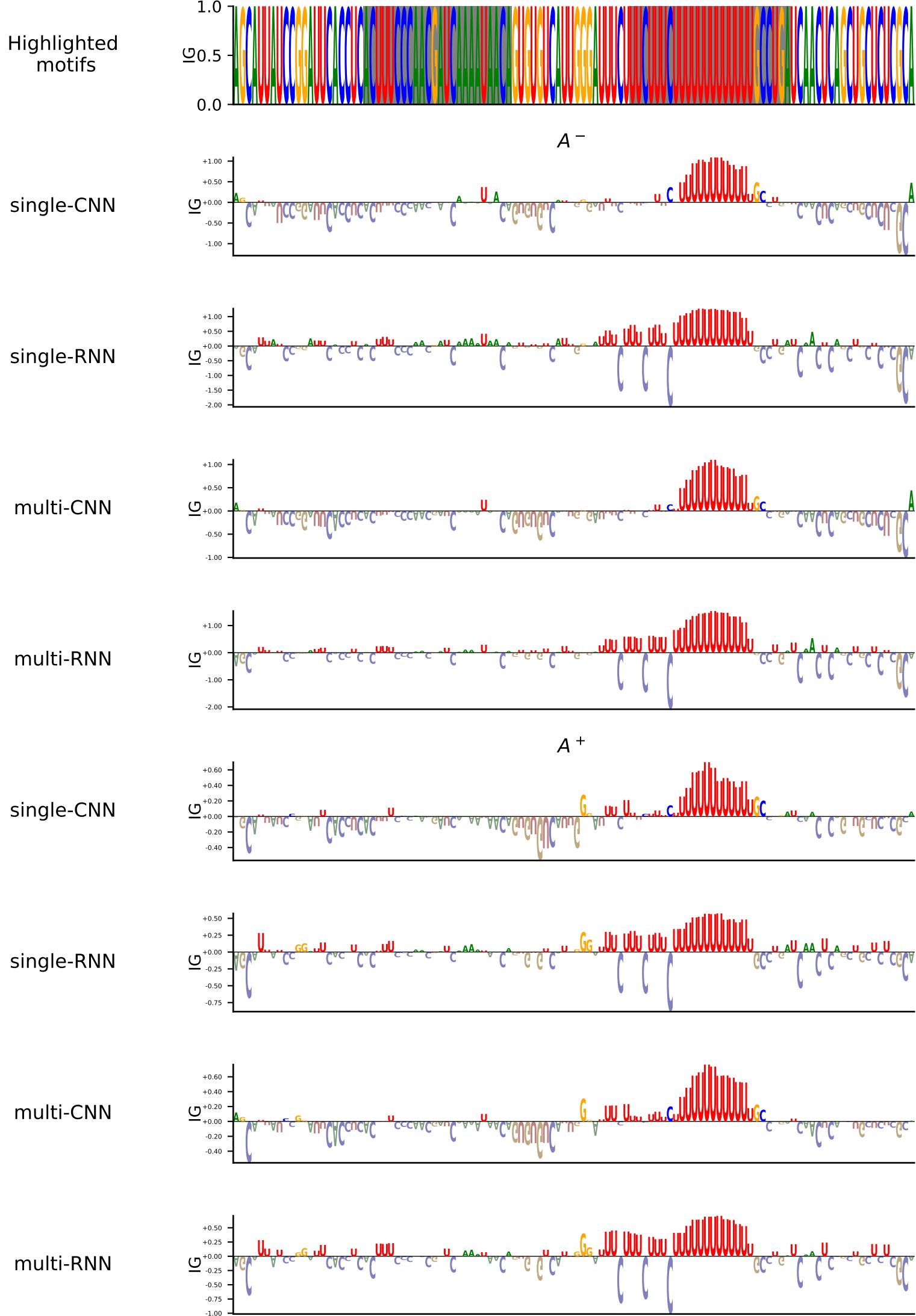


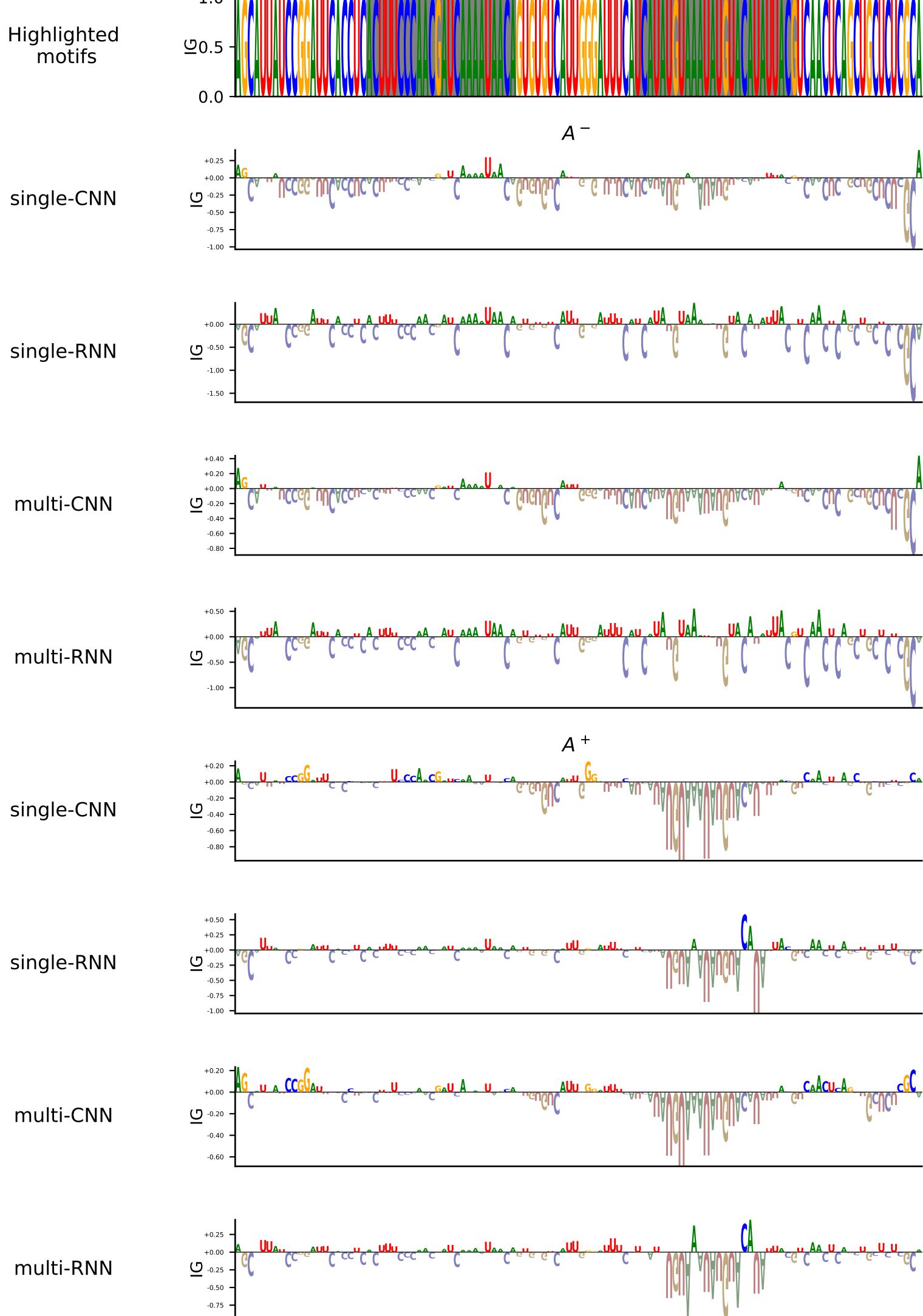
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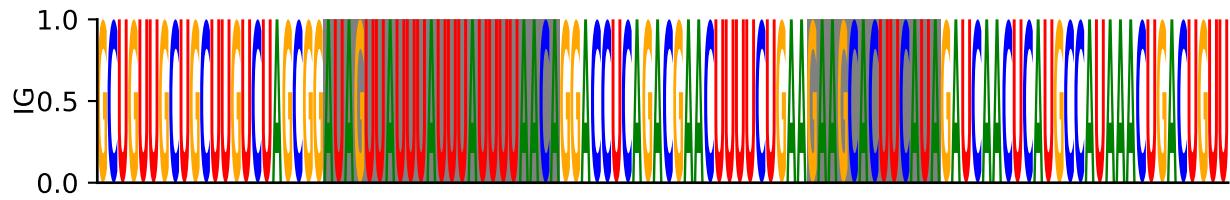
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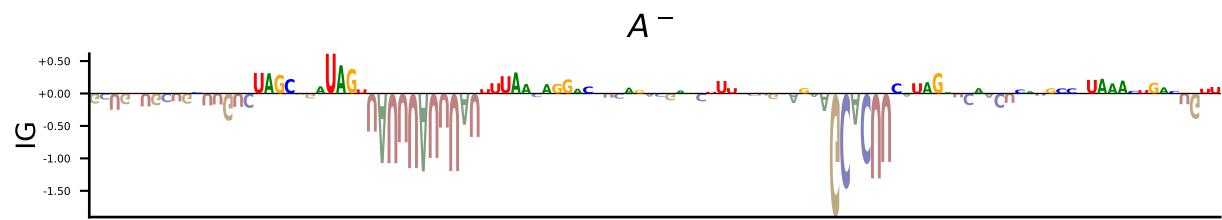




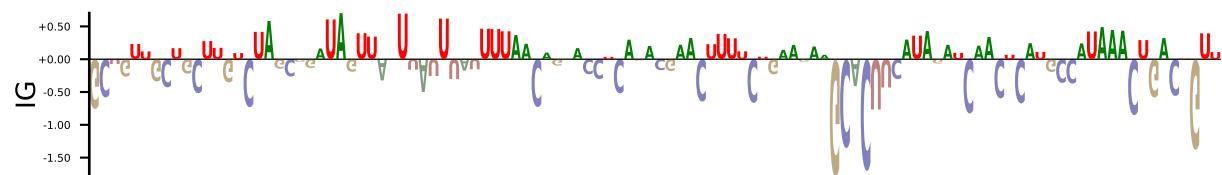
Highlighted motifs



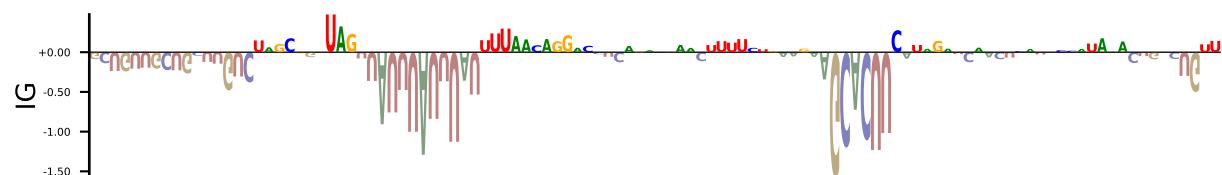
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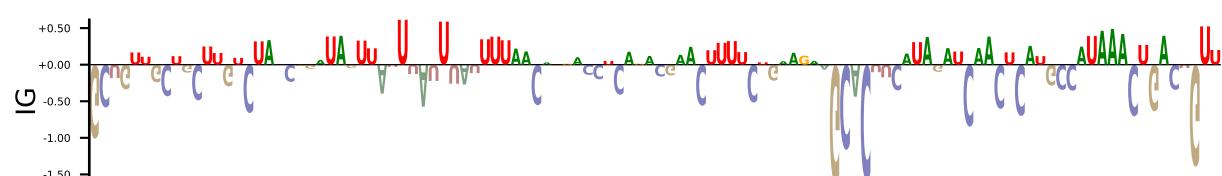
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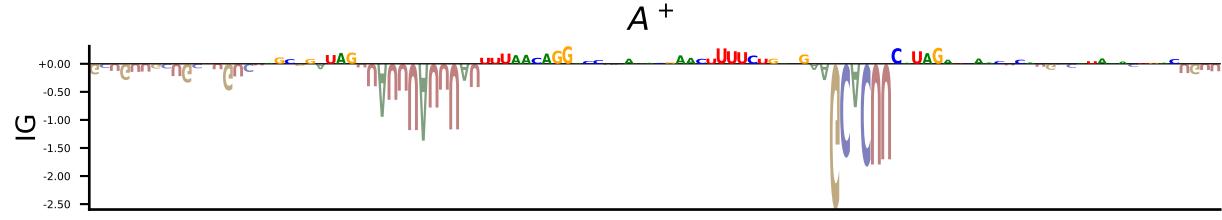
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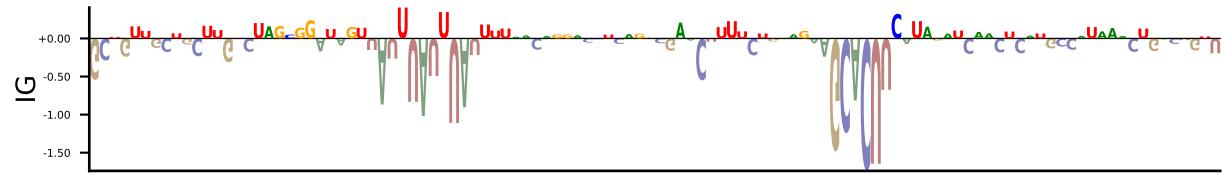
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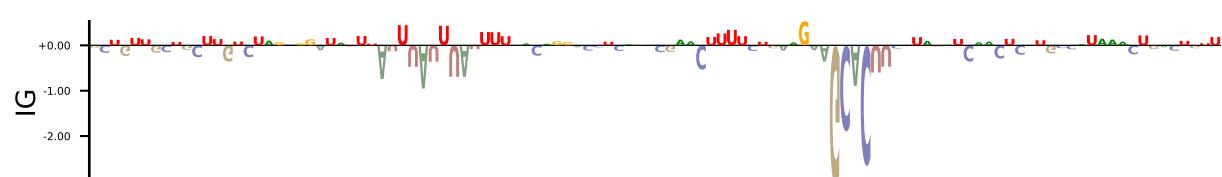
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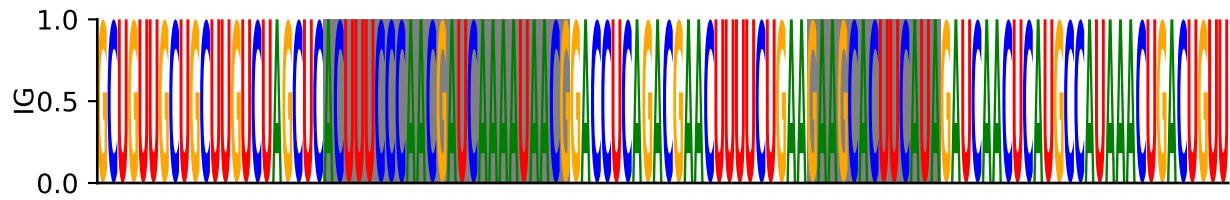
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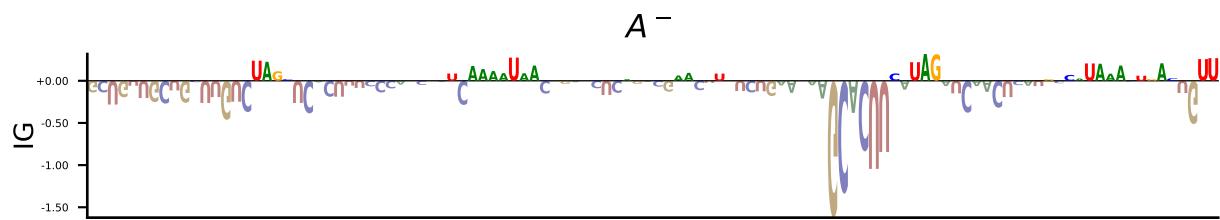
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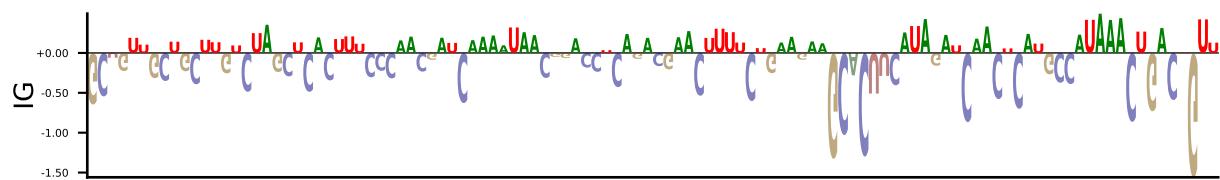
Highlighted motifs



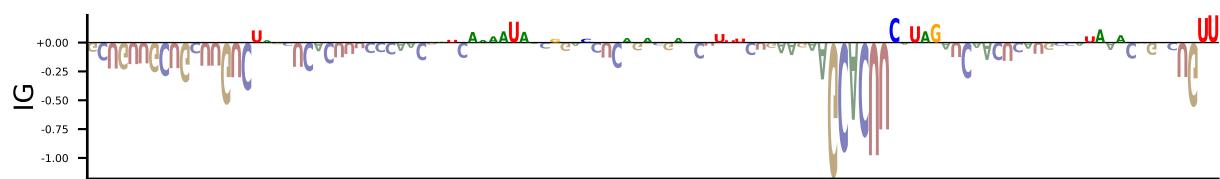
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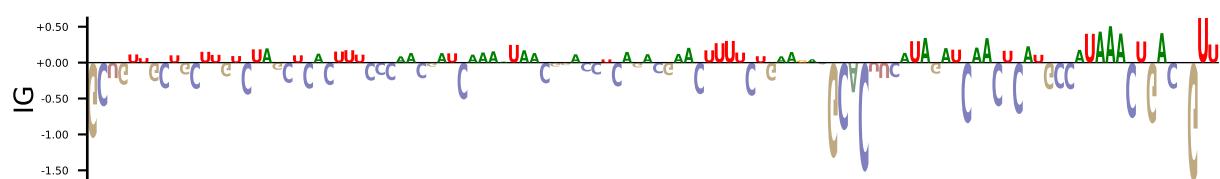
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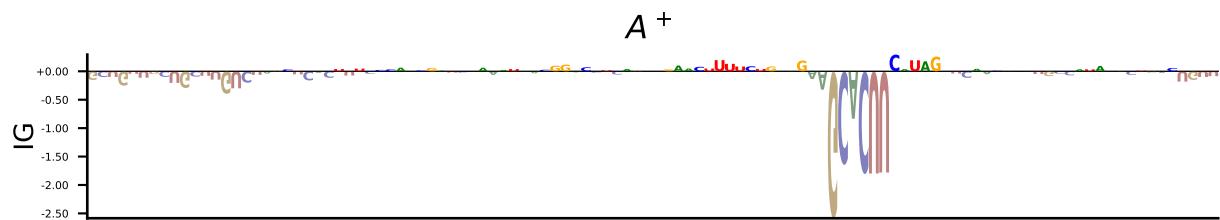
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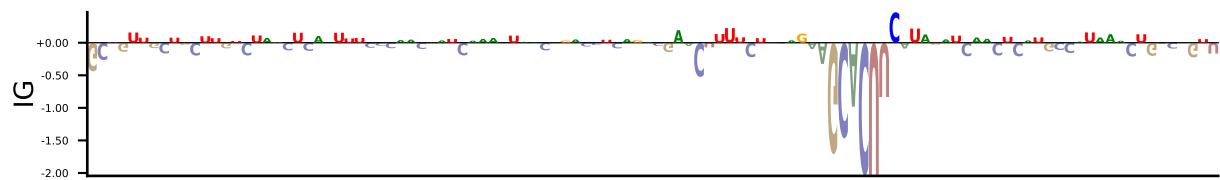
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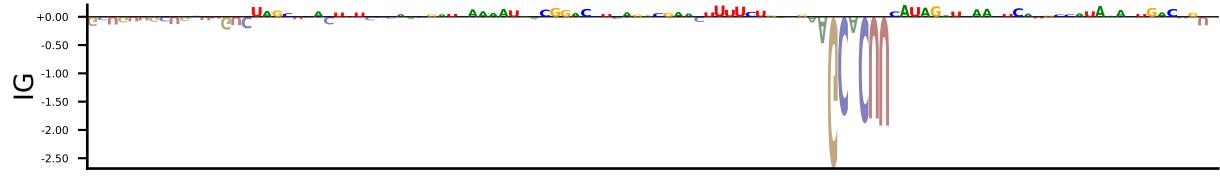
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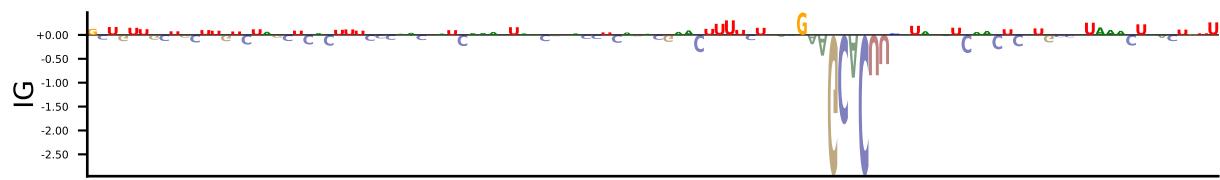
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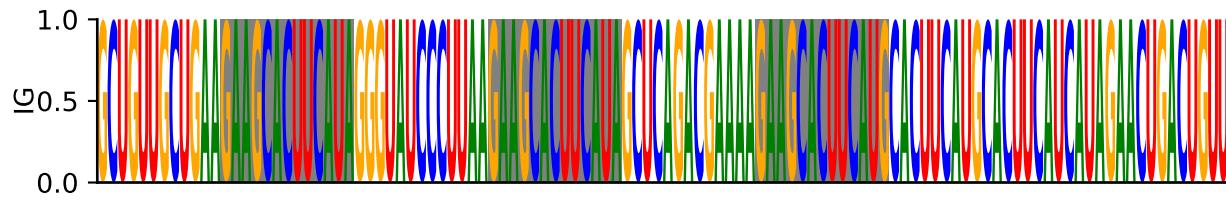
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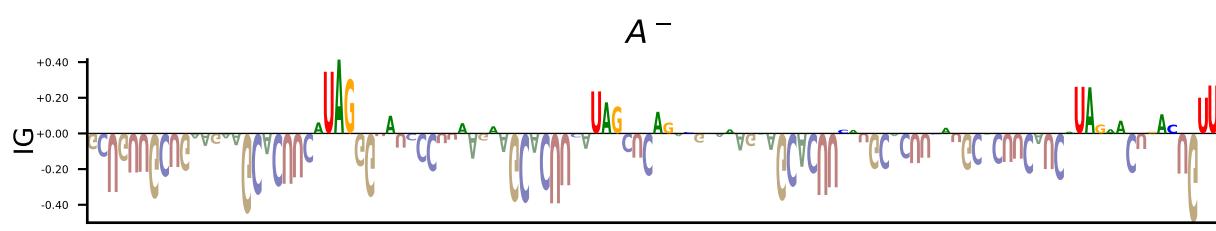
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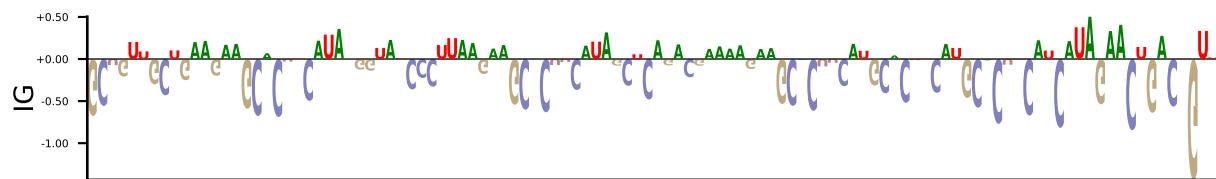
Highlighted motifs



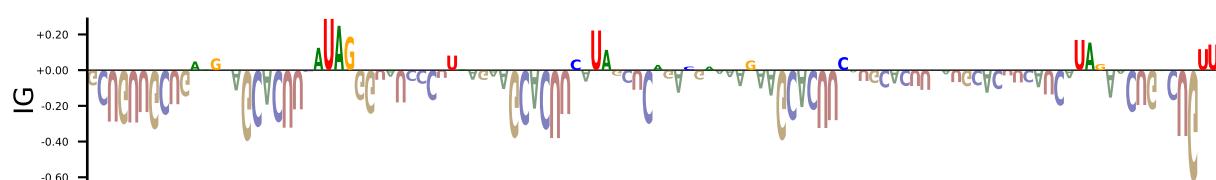
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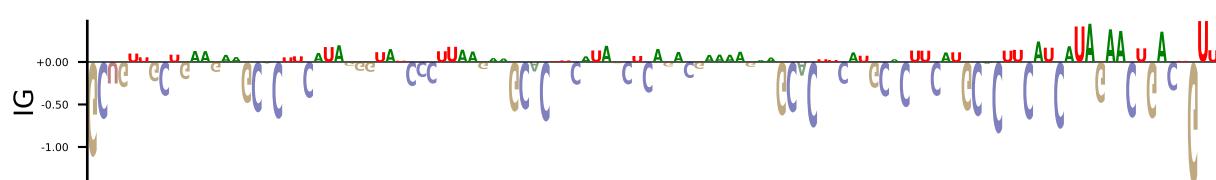
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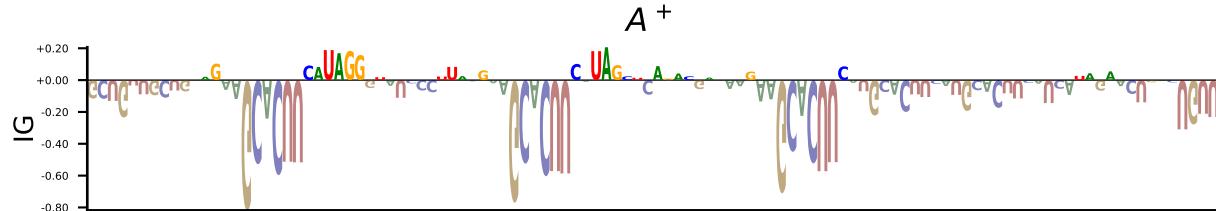
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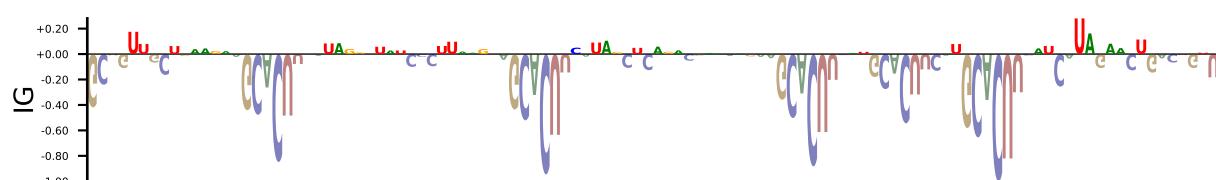
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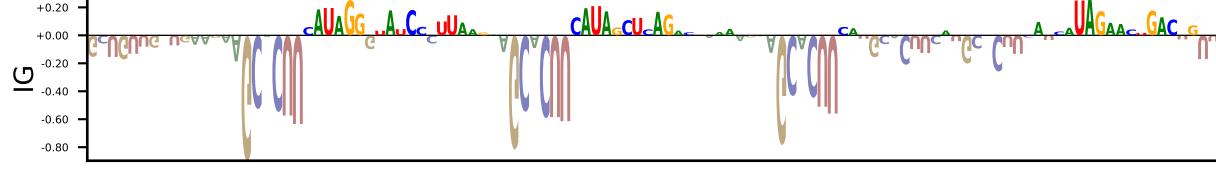
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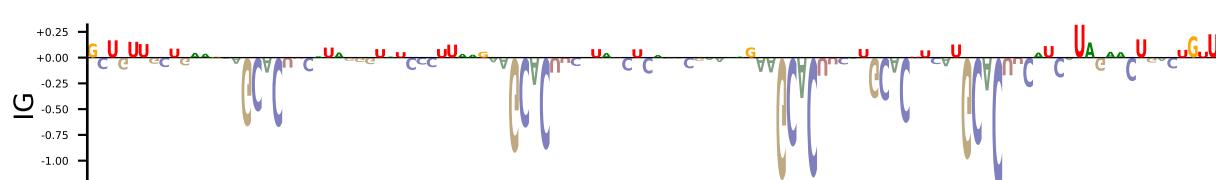
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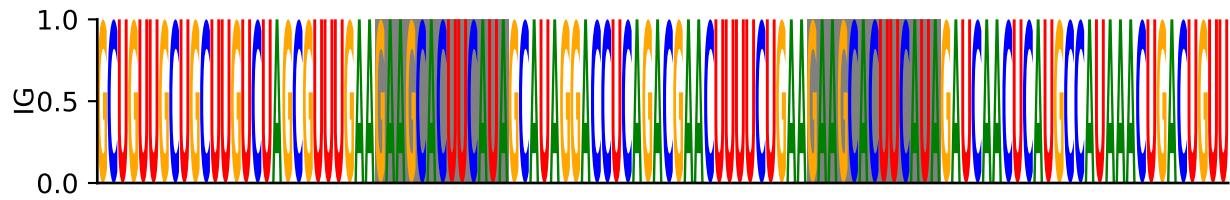
multi-CNN



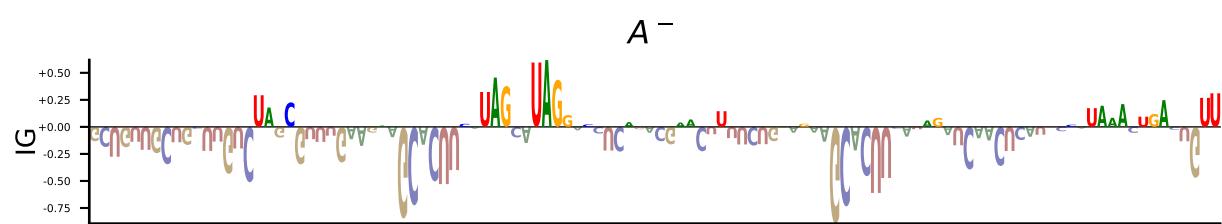
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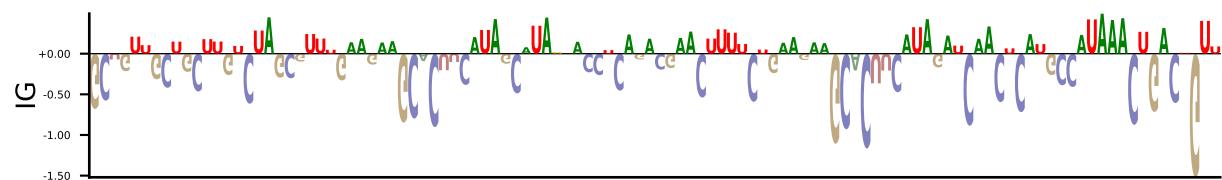
Highlighted motifs



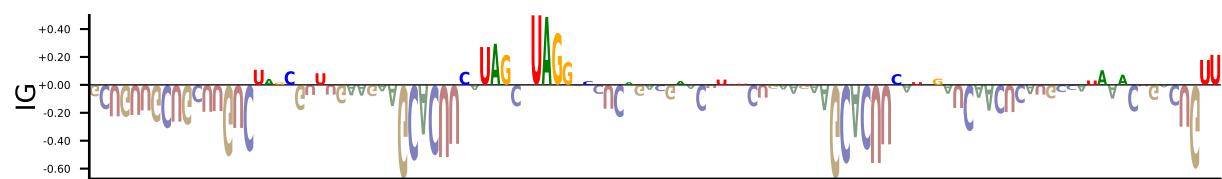
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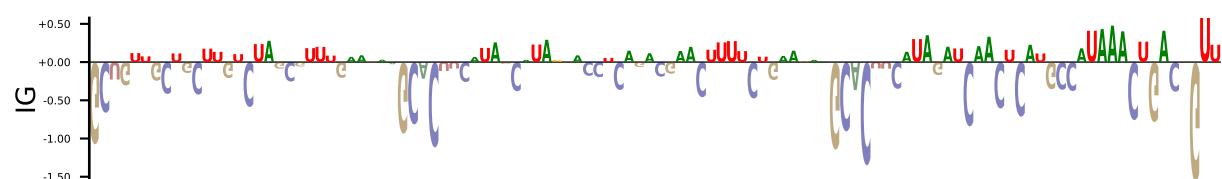
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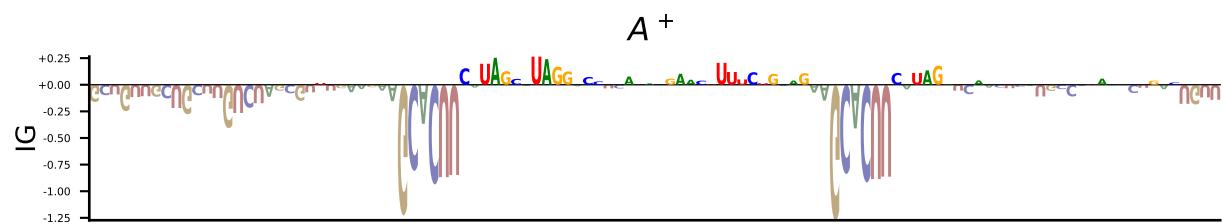
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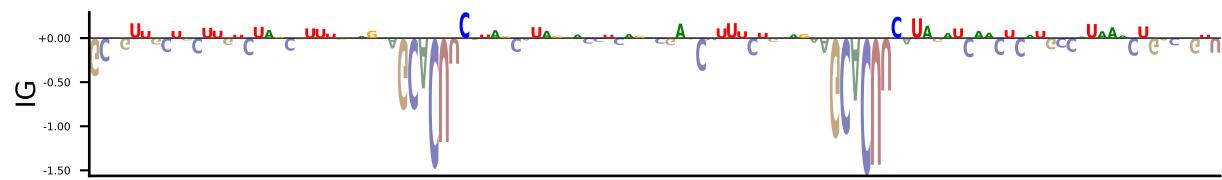
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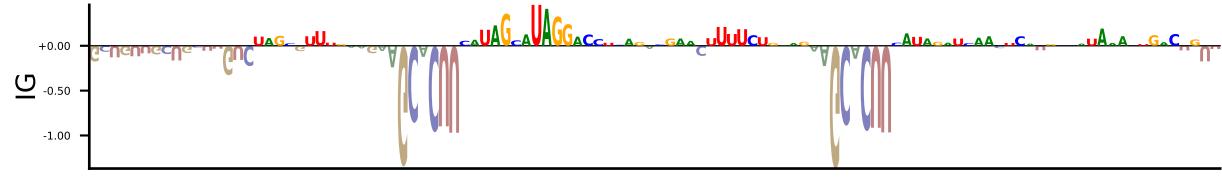
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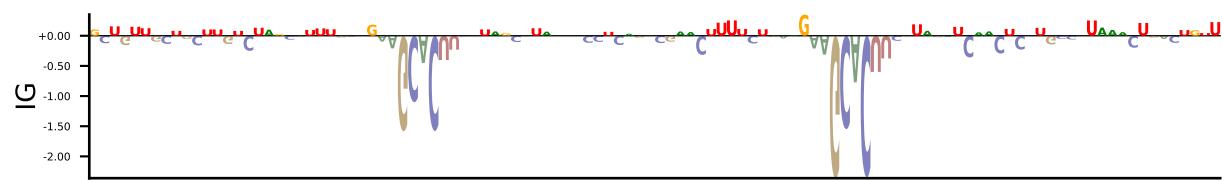
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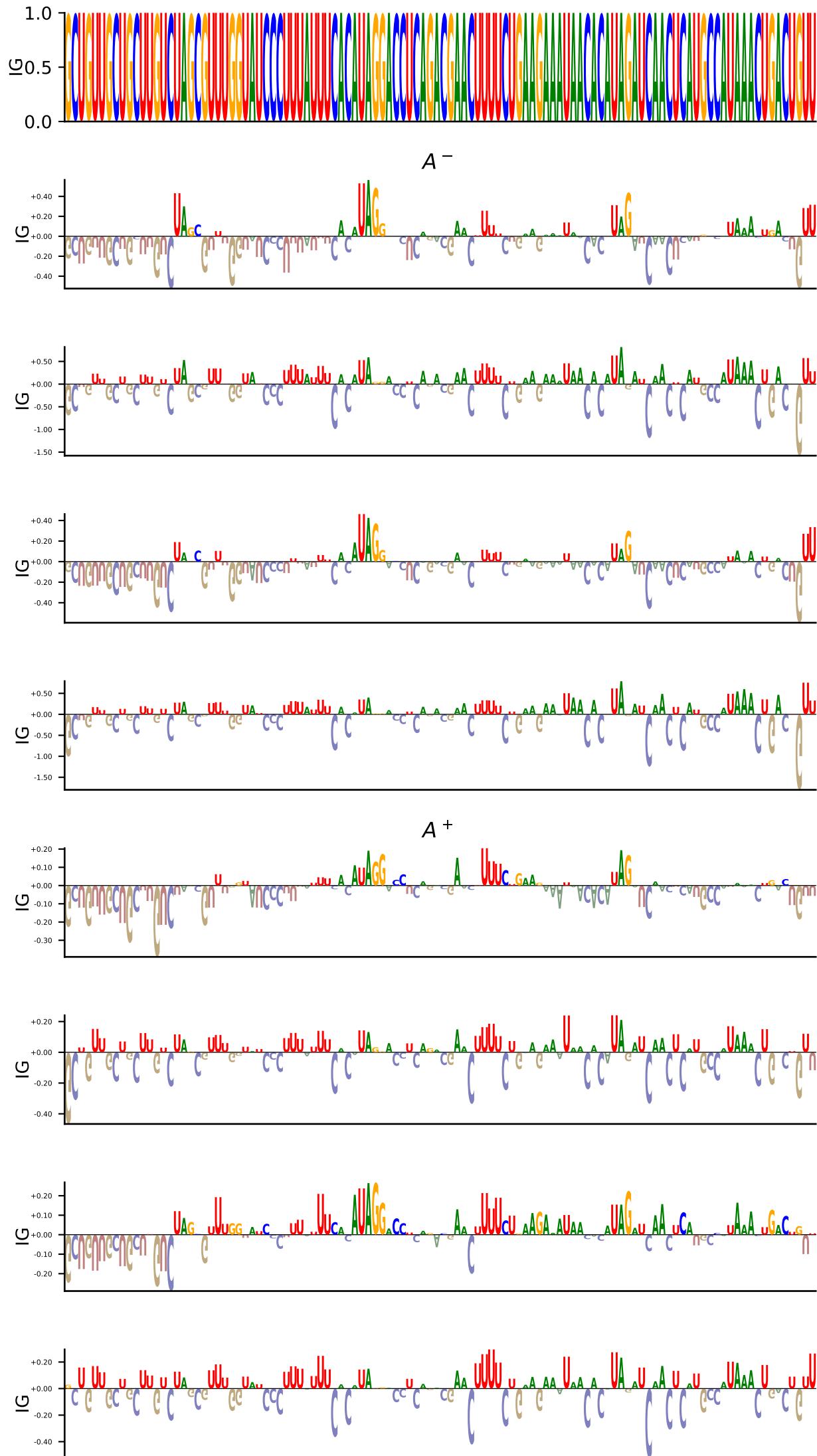
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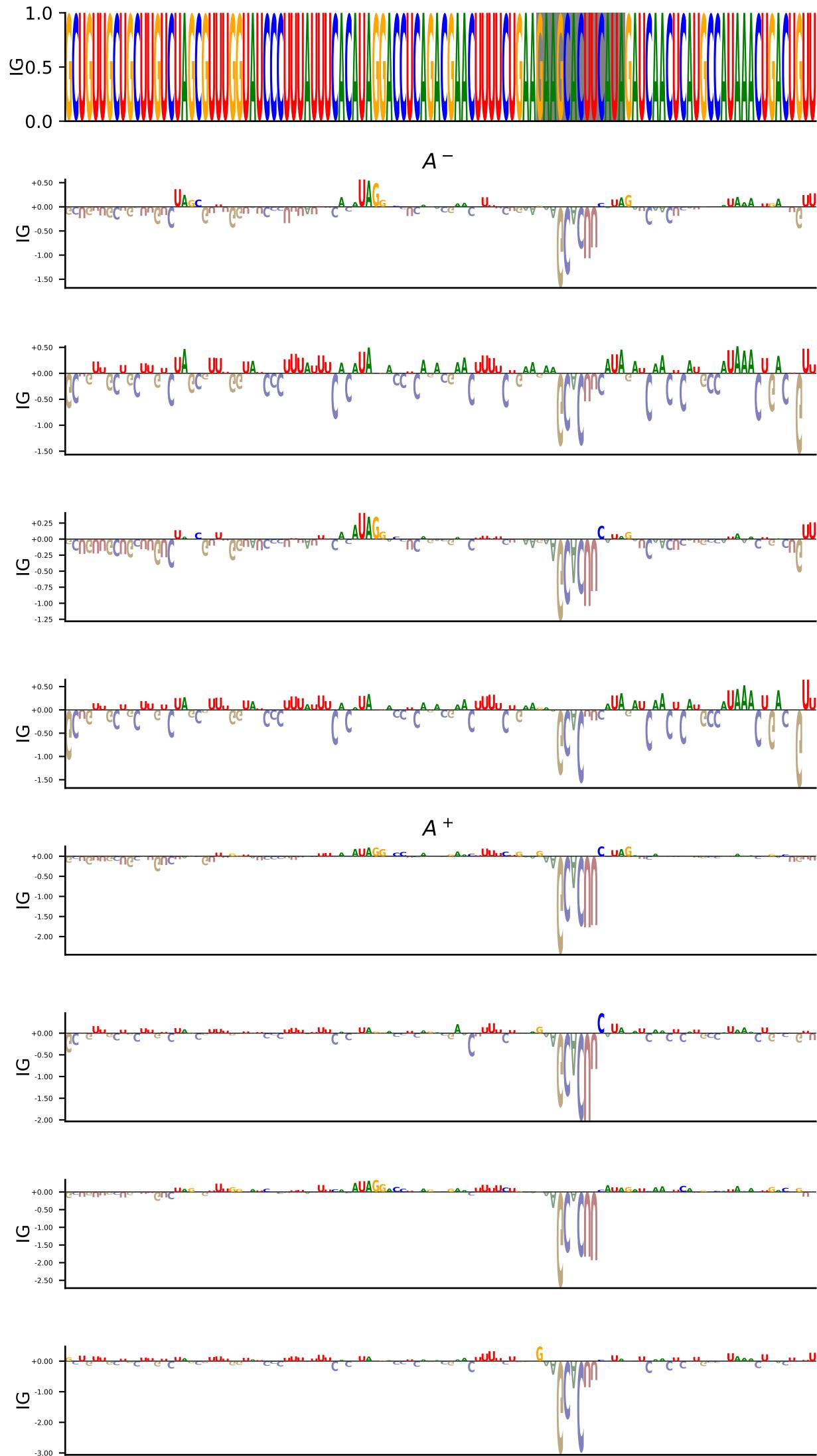
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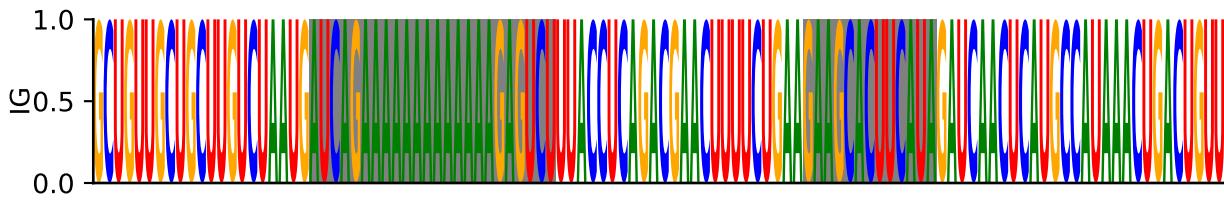
Highlighted motifs



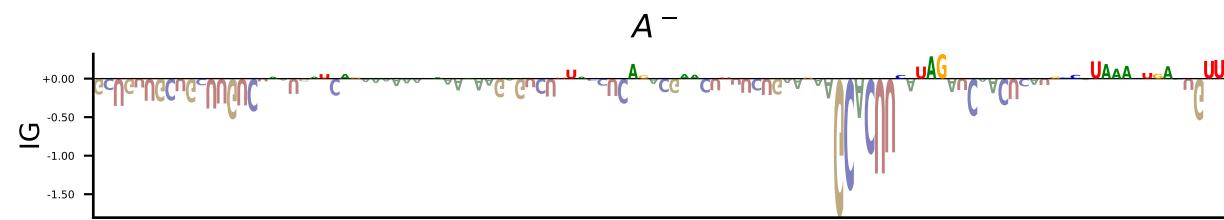
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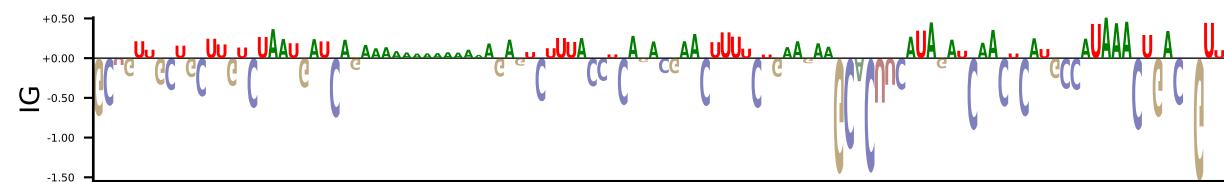
Highlighted motifs



single-CNN



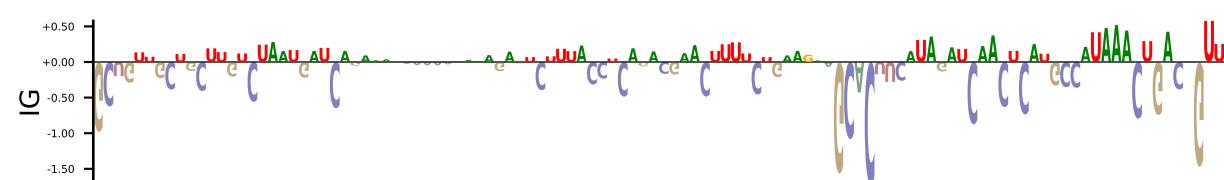
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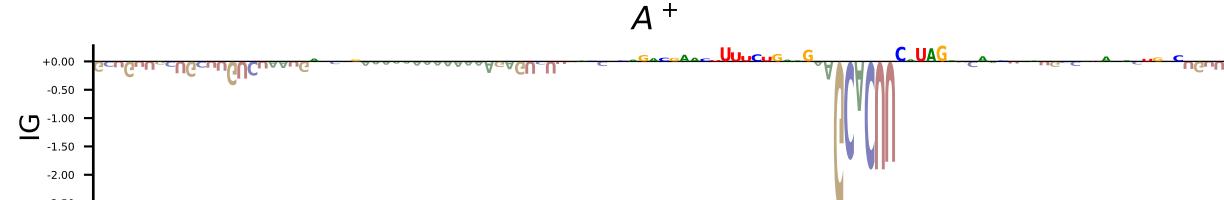
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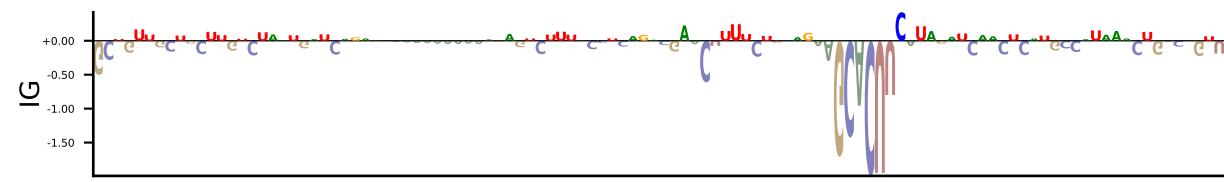
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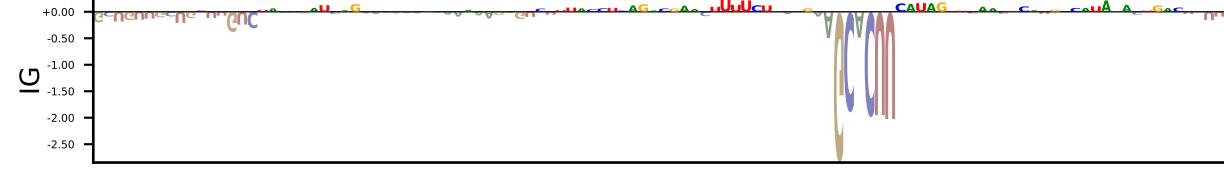
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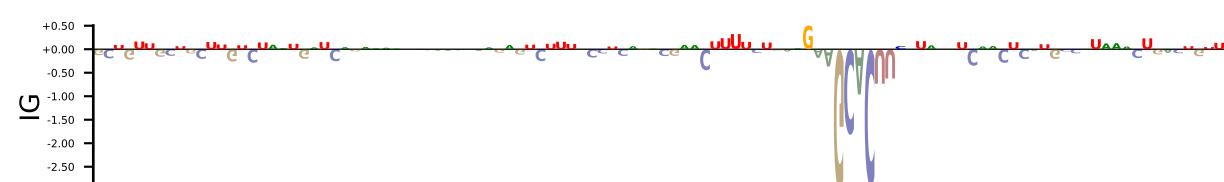
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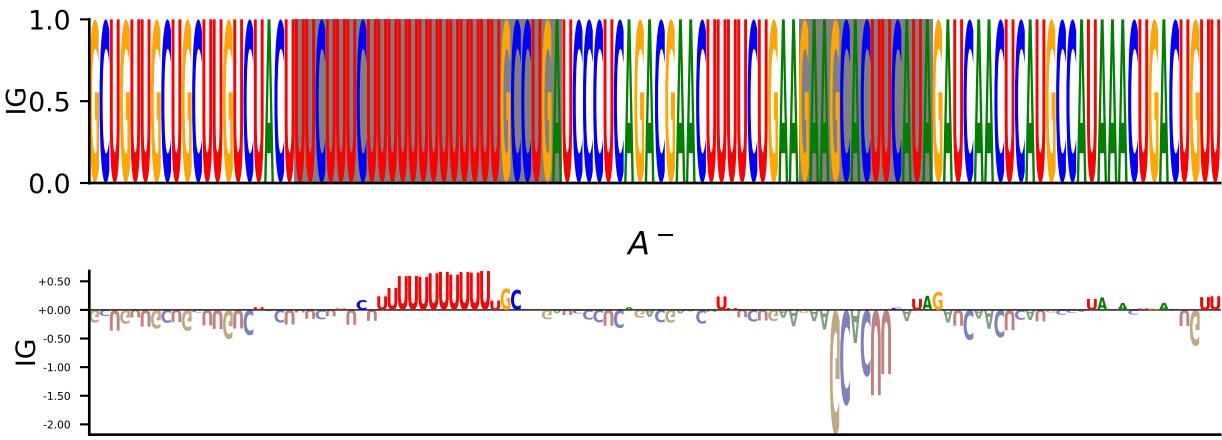


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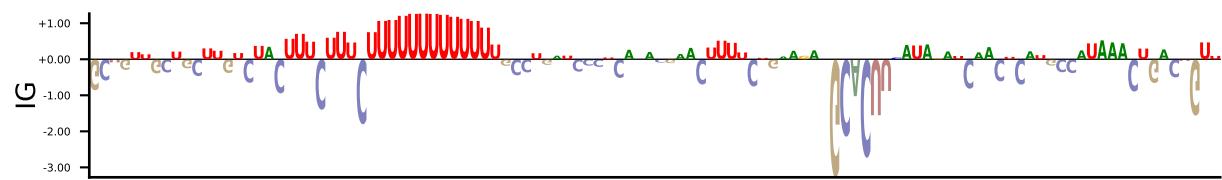


Highlighted motifs

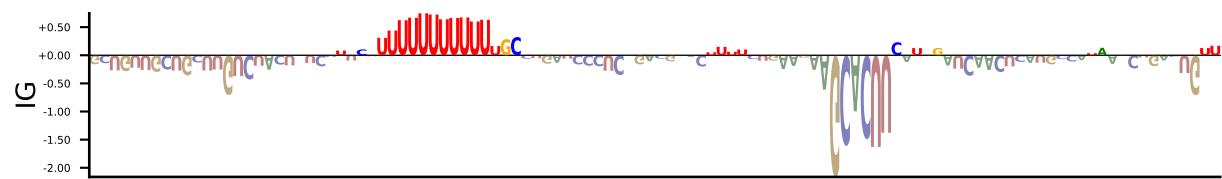
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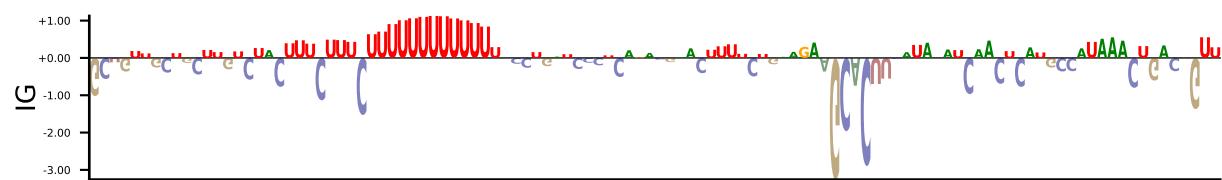
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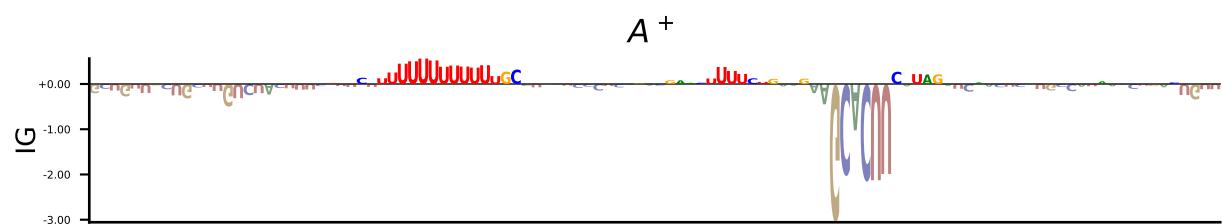
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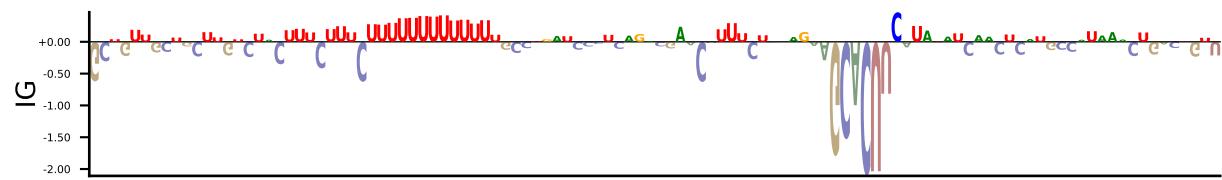
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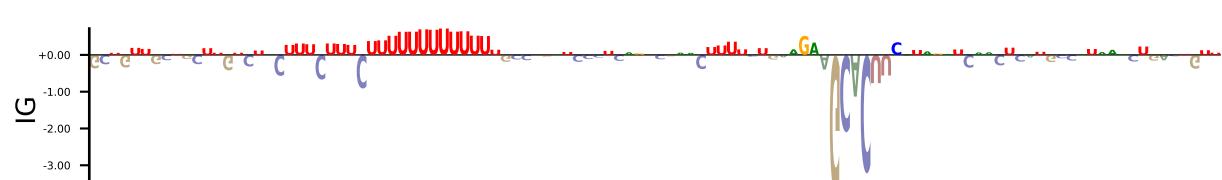
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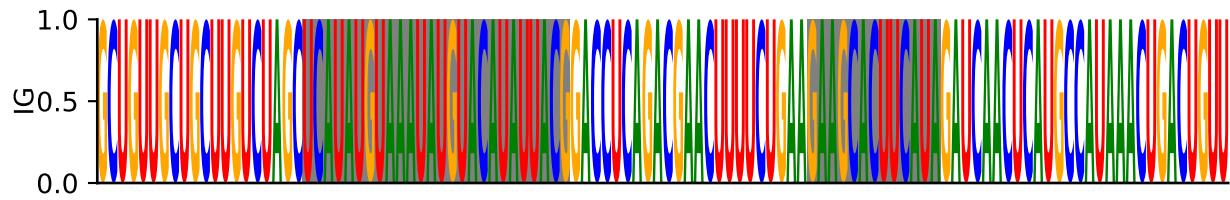
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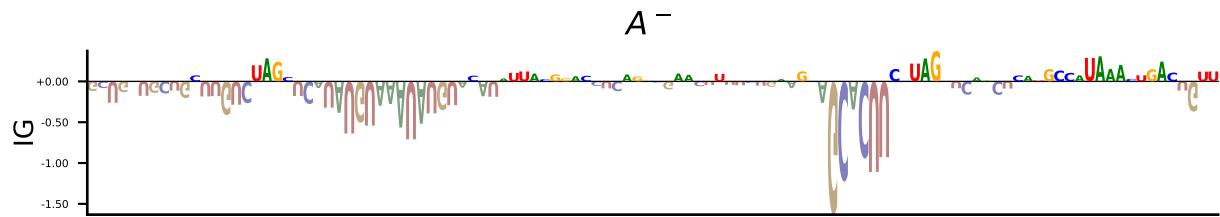
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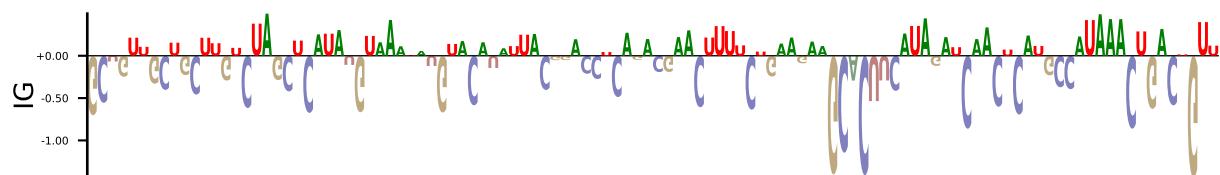
Highlighted motifs



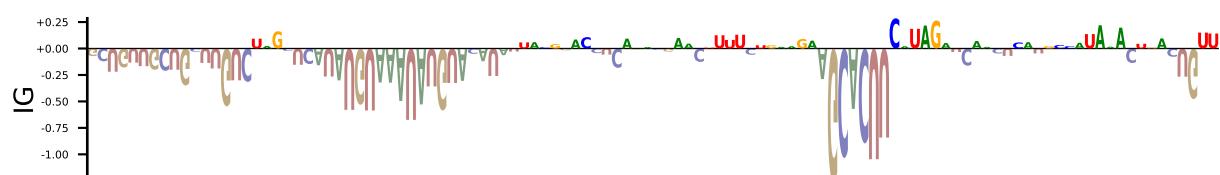
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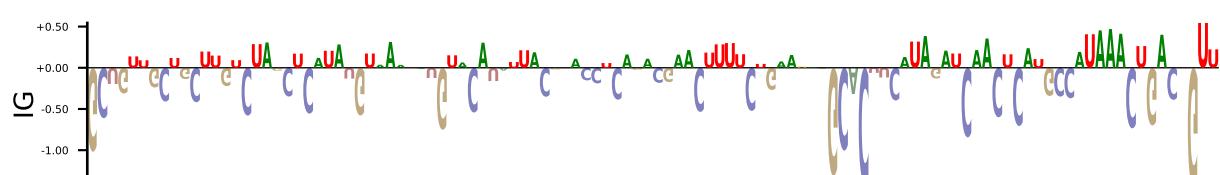
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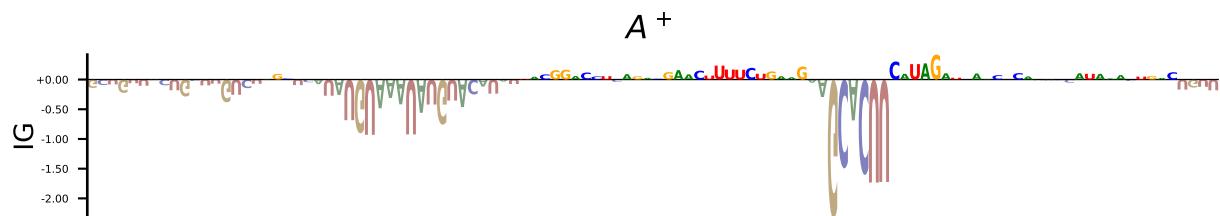
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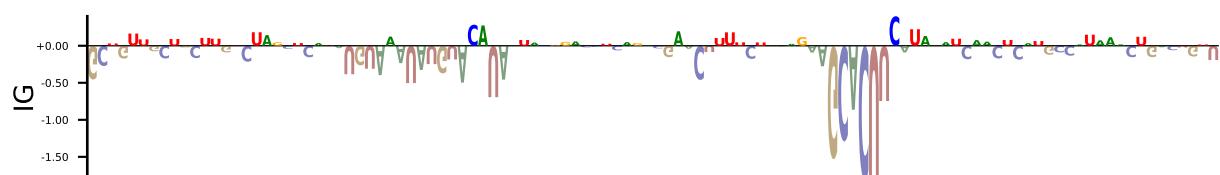
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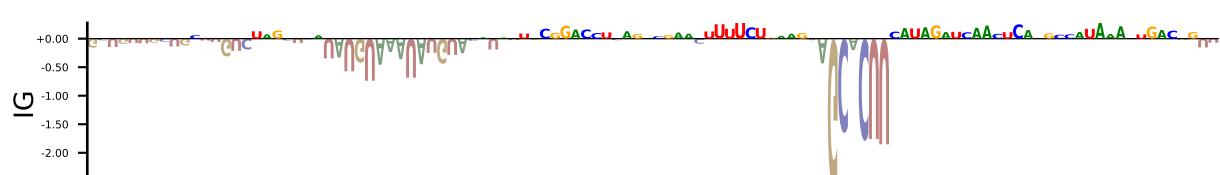
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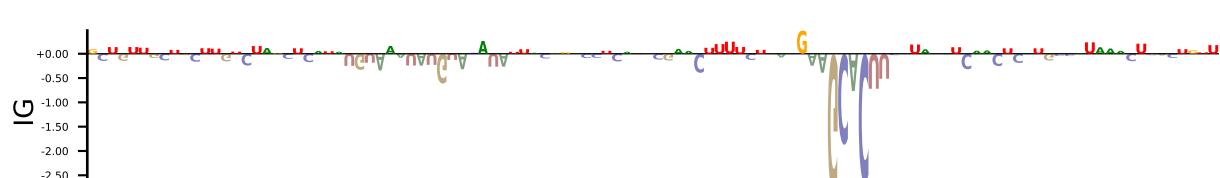
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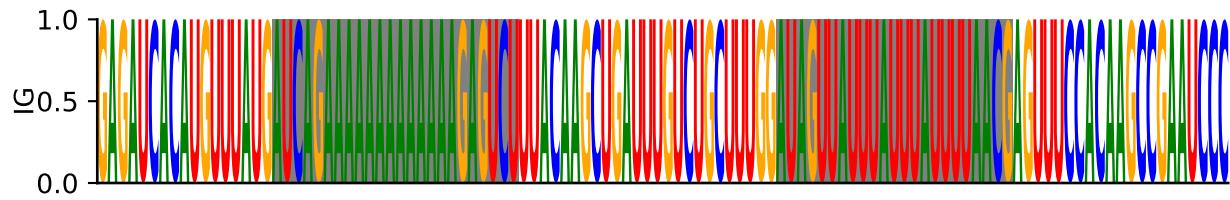
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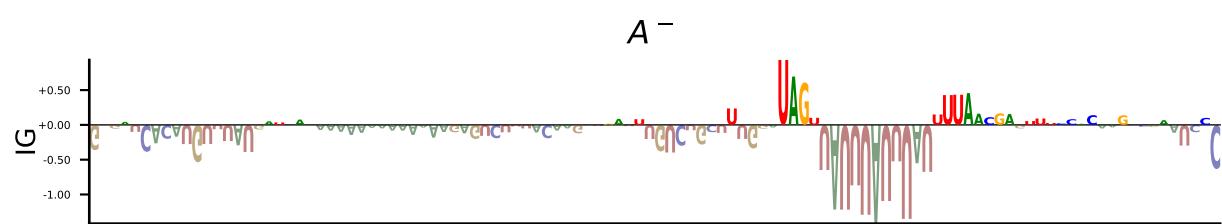
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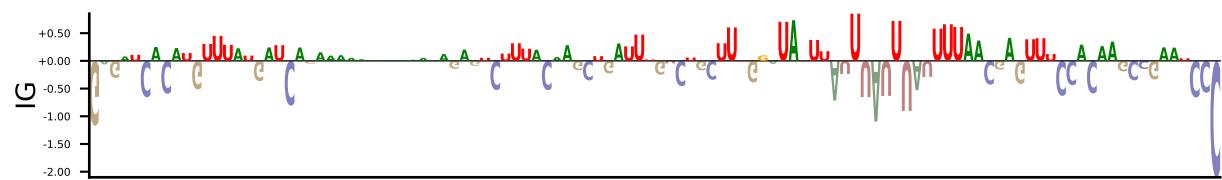
Highlighted motifs



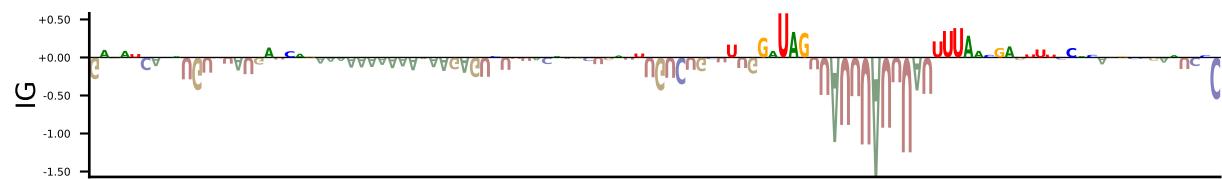
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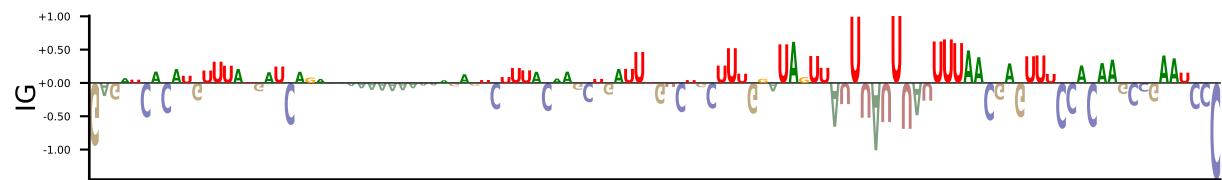
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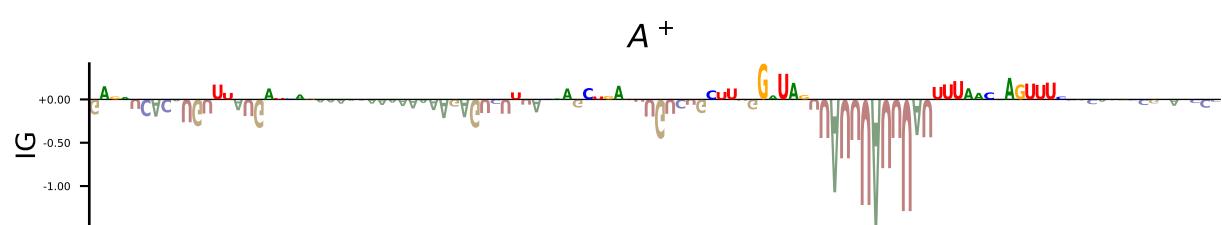
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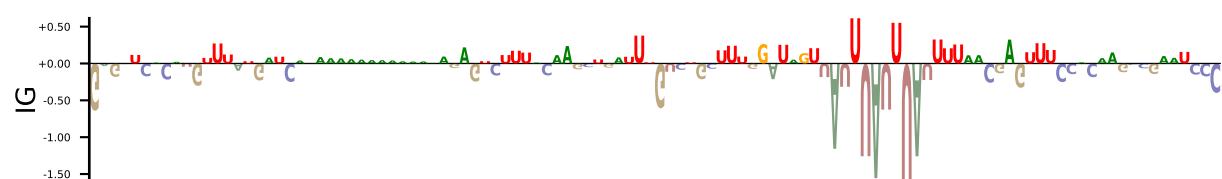
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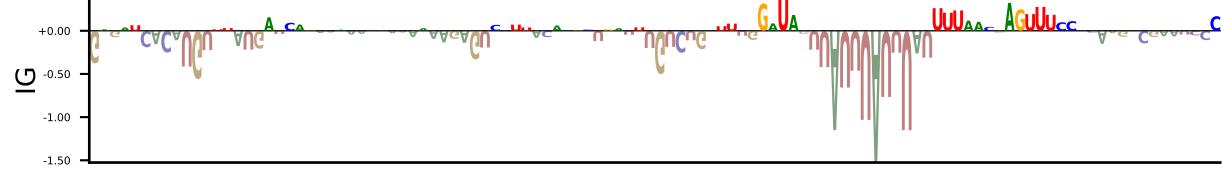
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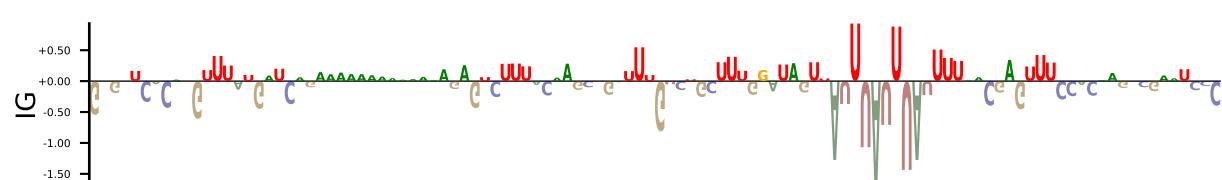
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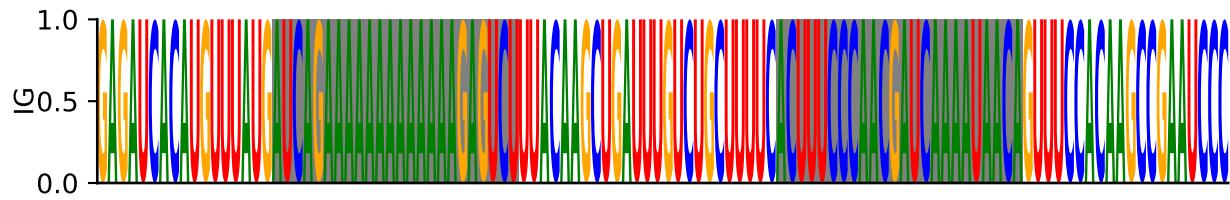
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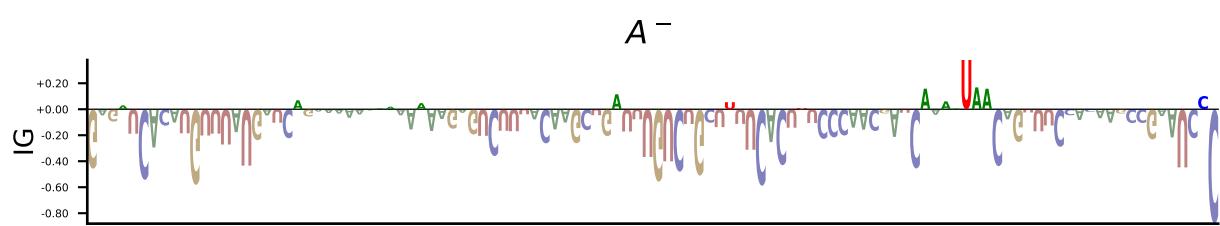
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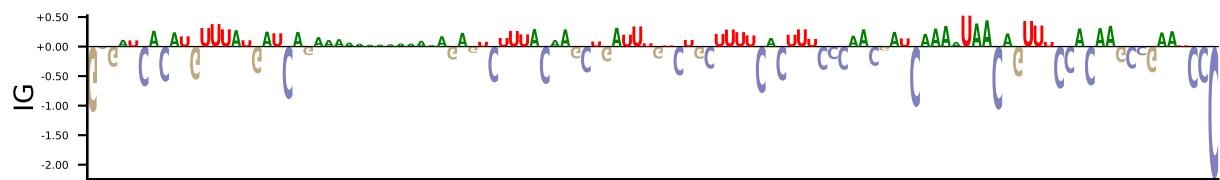
Highlighted motifs



single-CNN



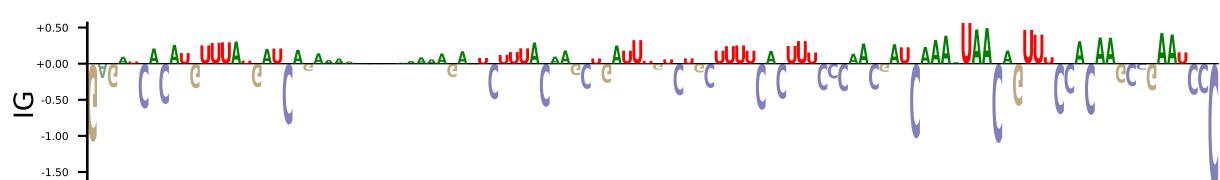
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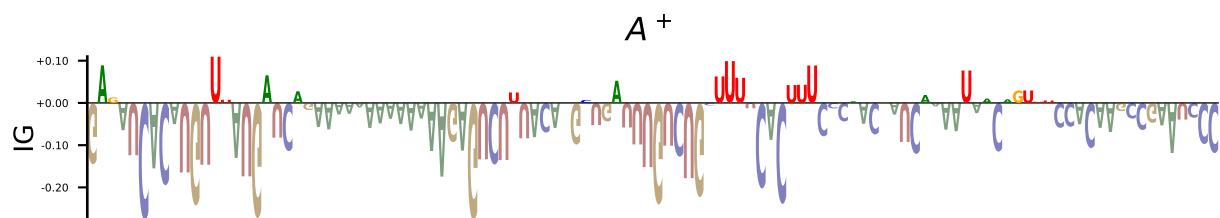
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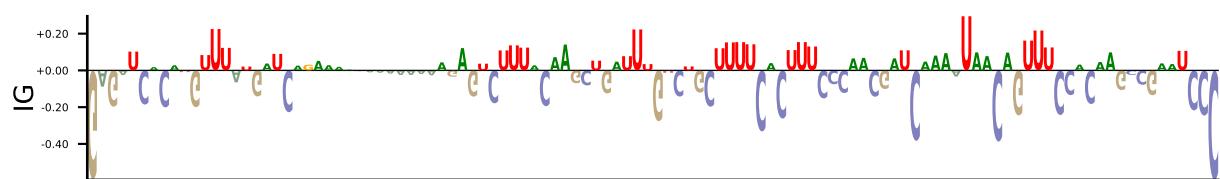
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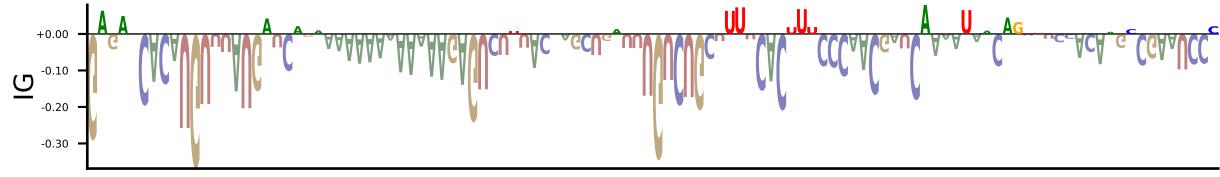
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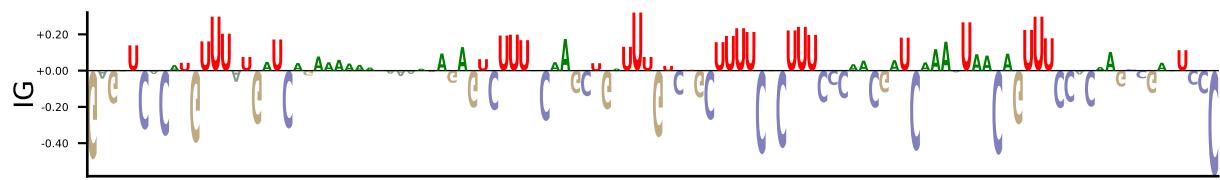
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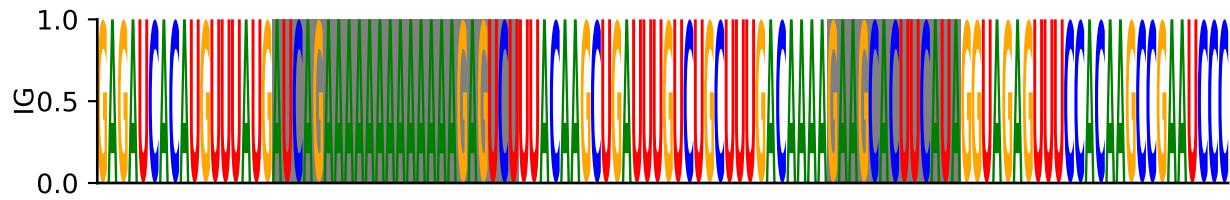
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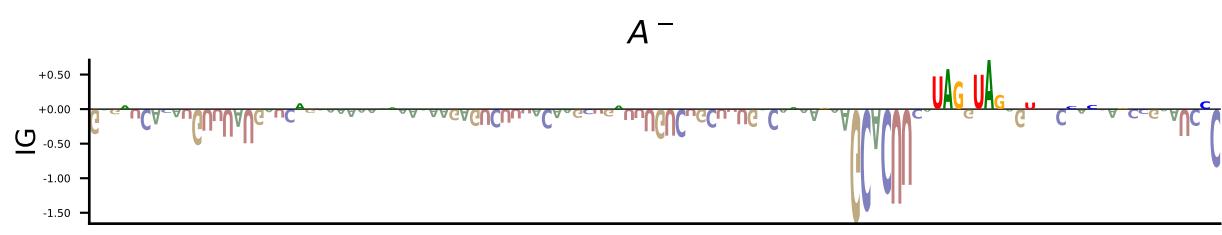
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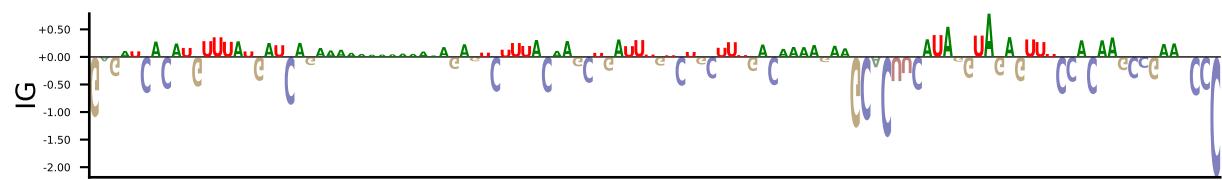
Highlighted motifs



single-CNN



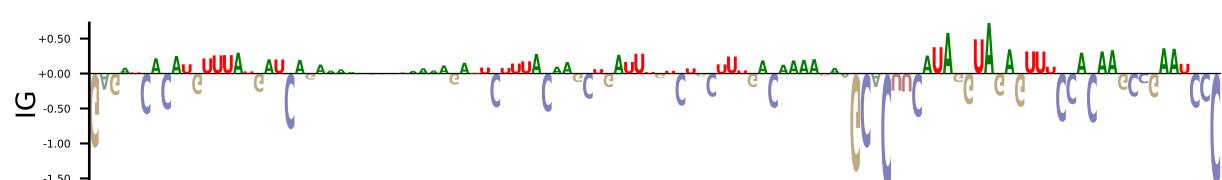
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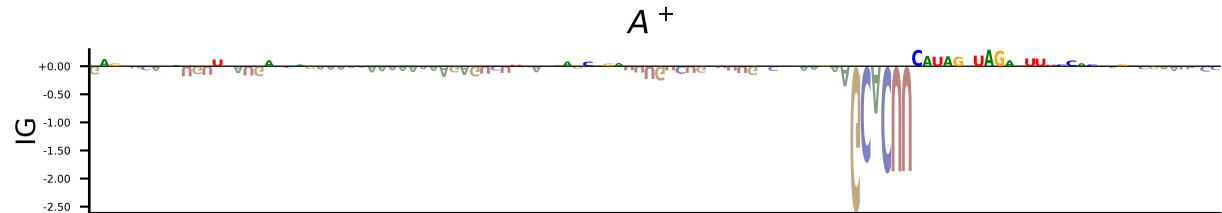
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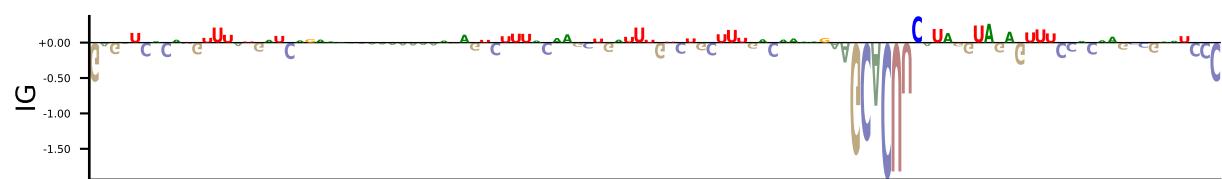
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single-CNN



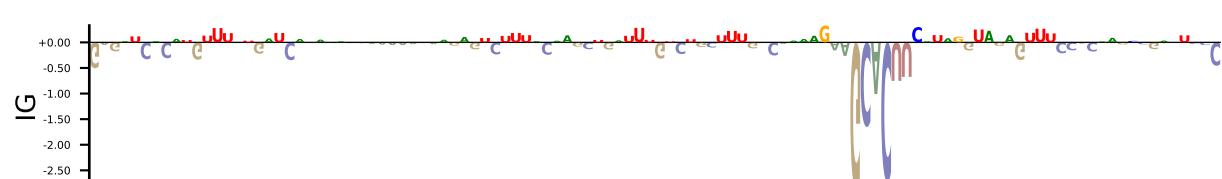
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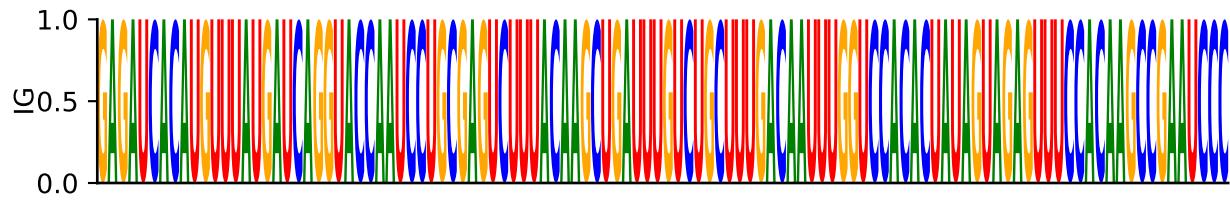
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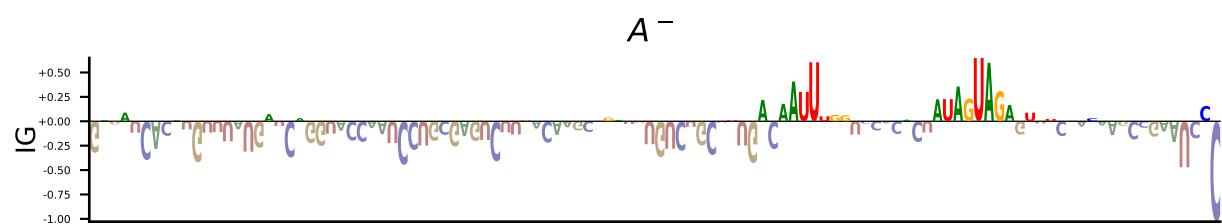
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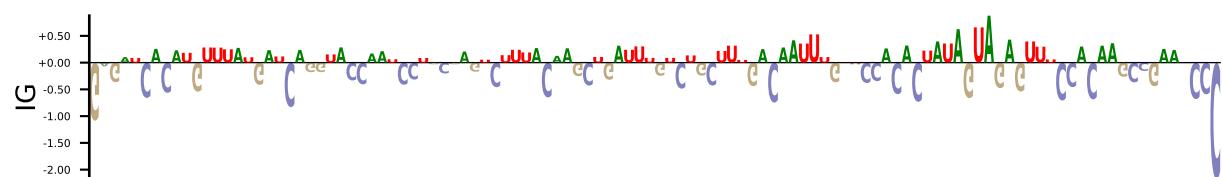
Highlighted motifs



single-CNN



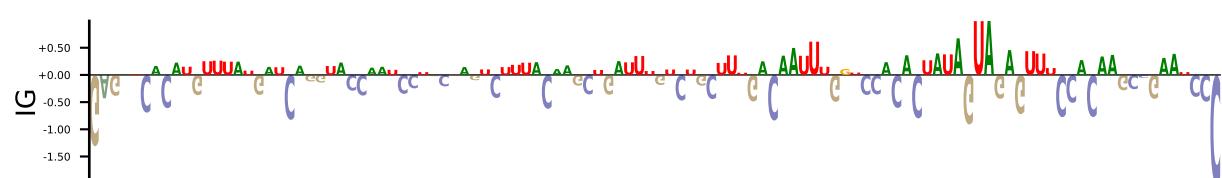
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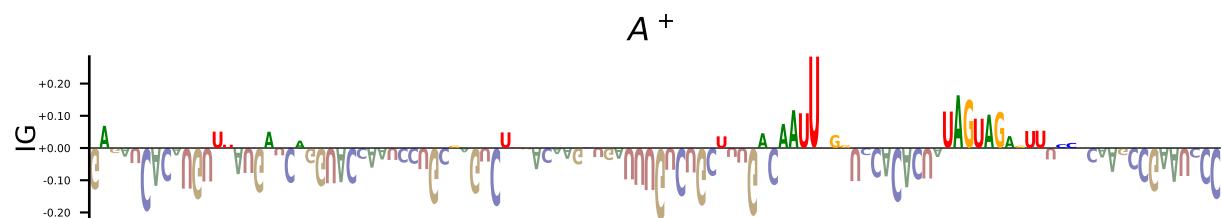
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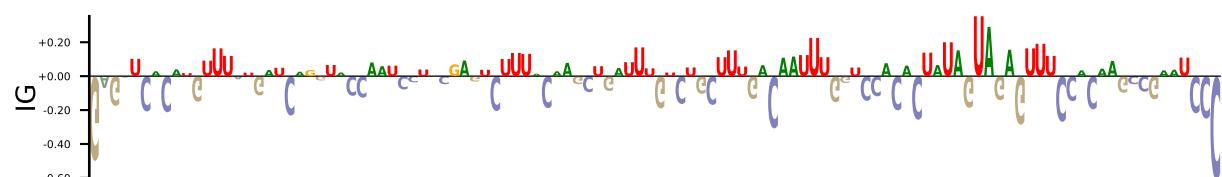
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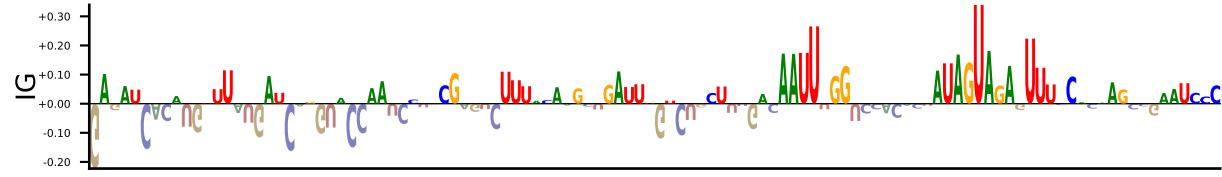
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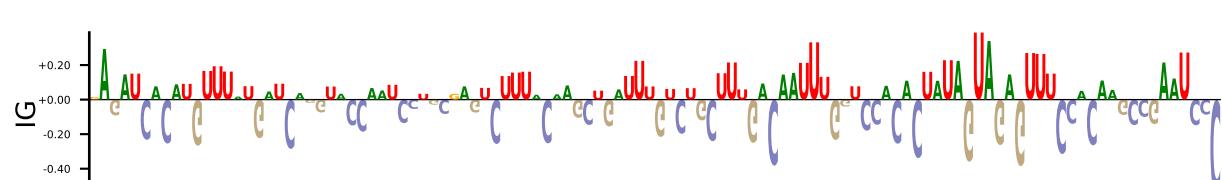
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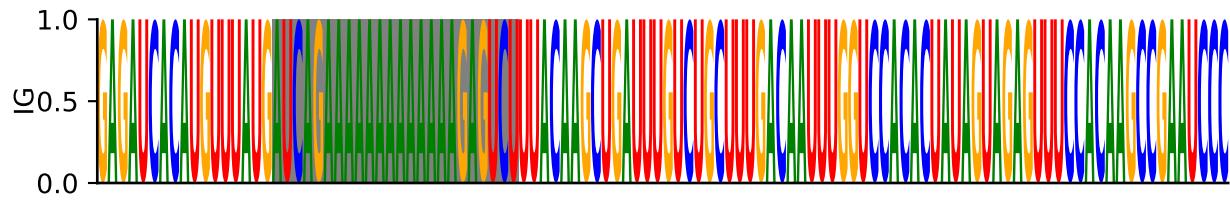
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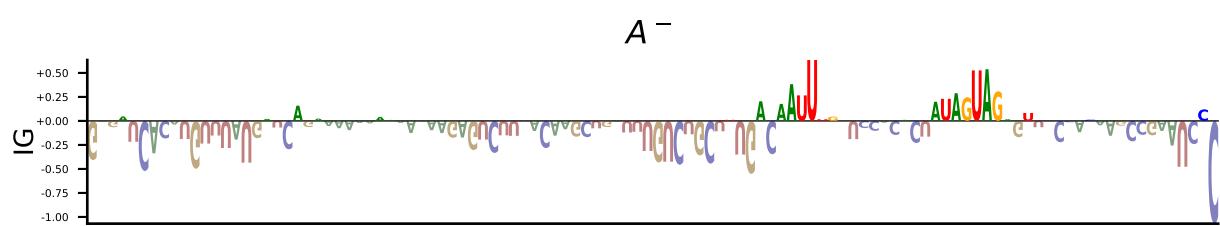
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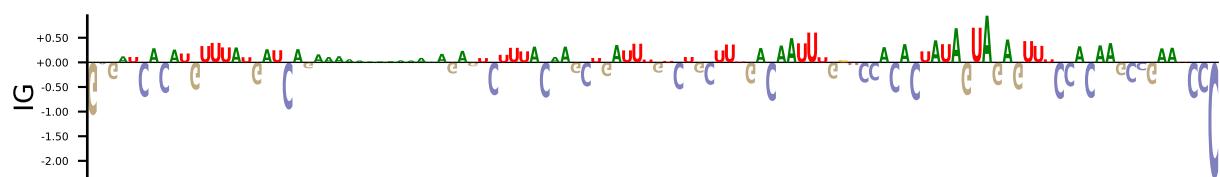
Highlighted motifs



single-CNN



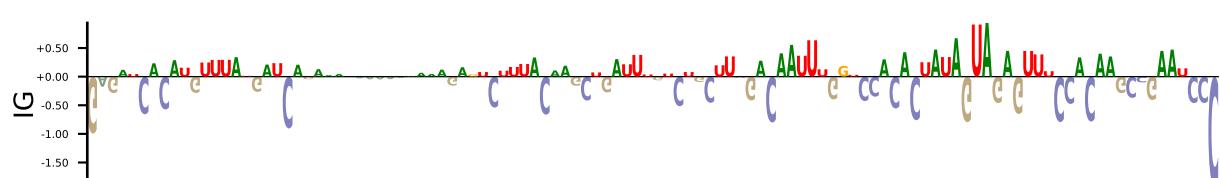
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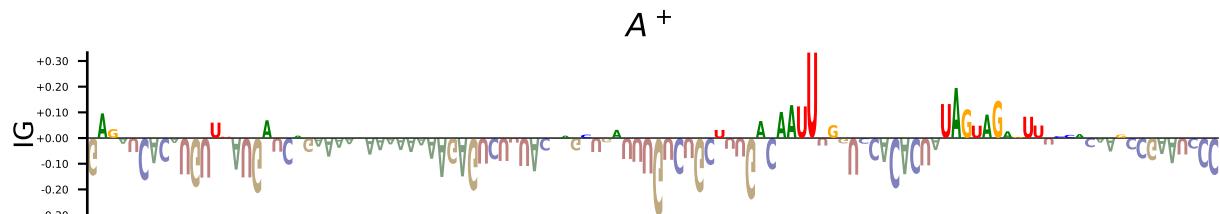
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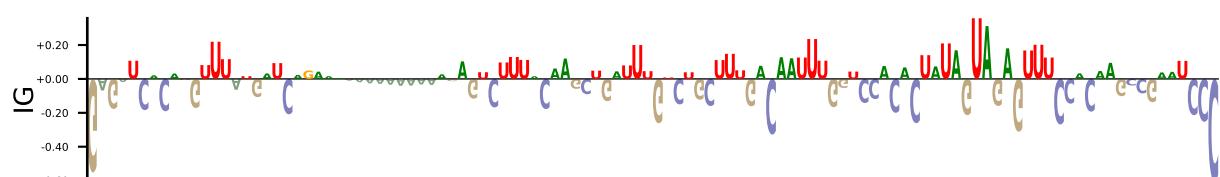
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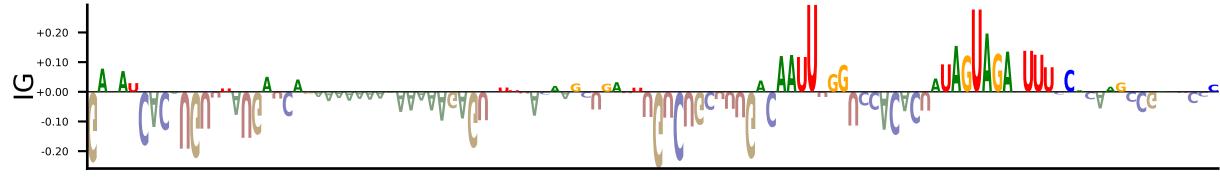
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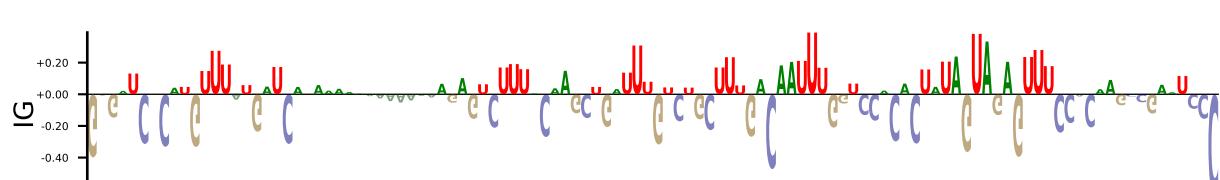
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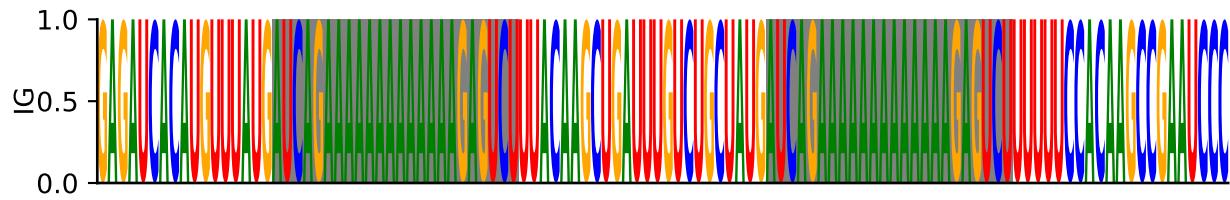
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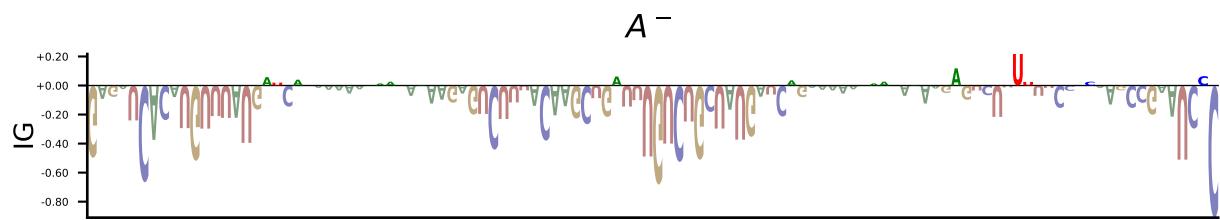
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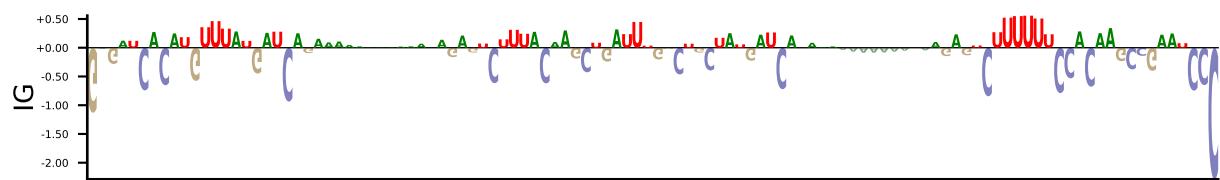
Highlighted motifs



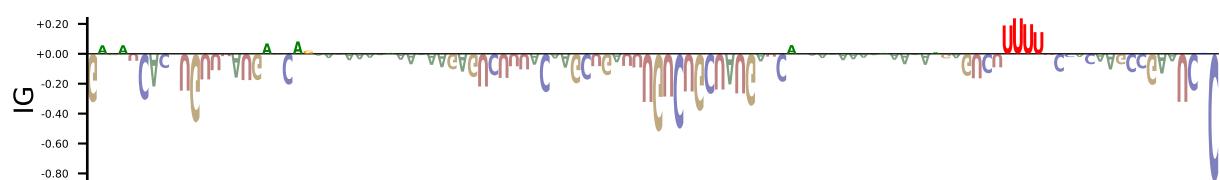
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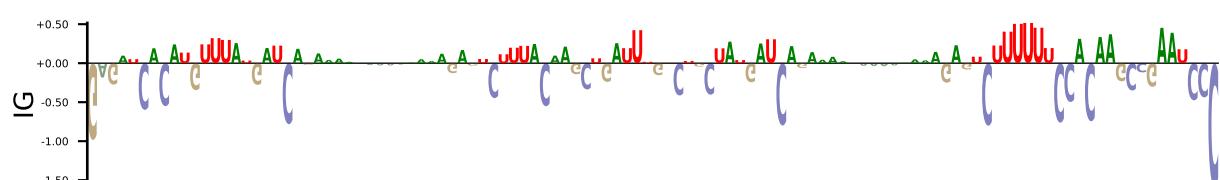
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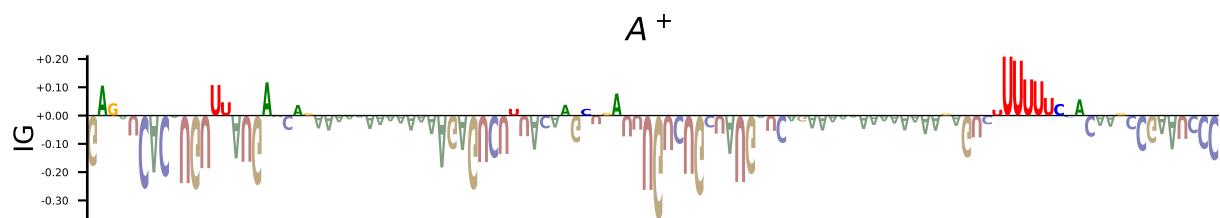
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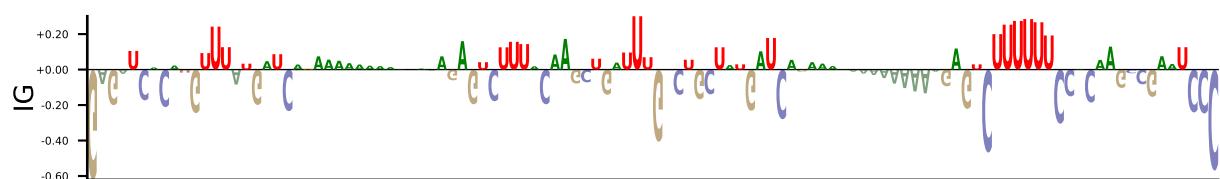
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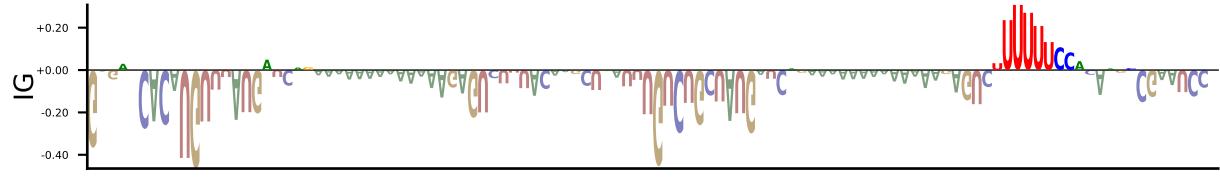
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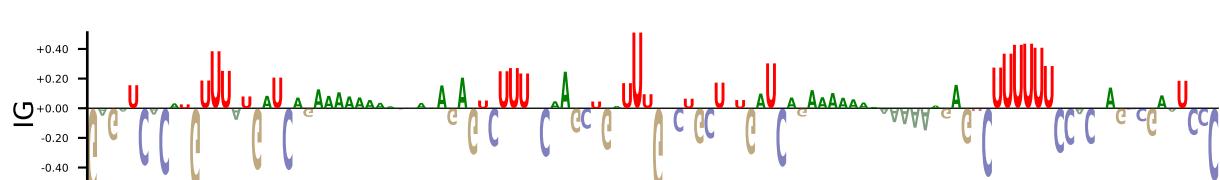
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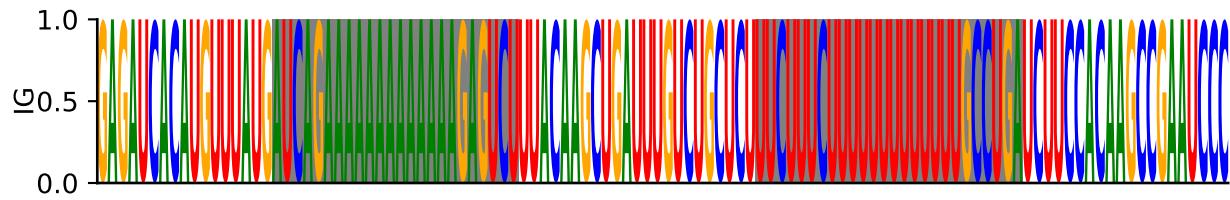
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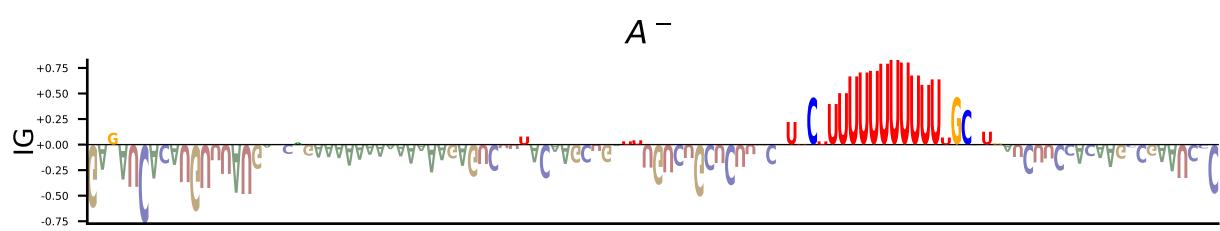
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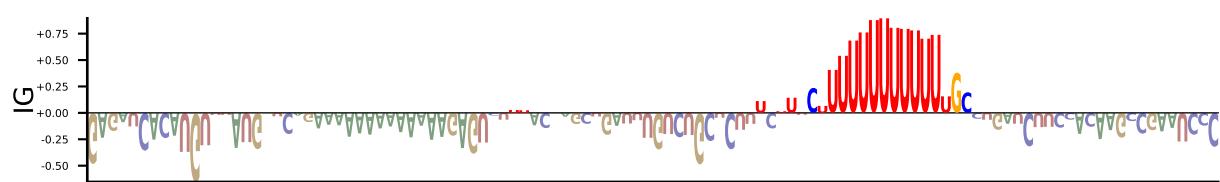
Highlighted motifs



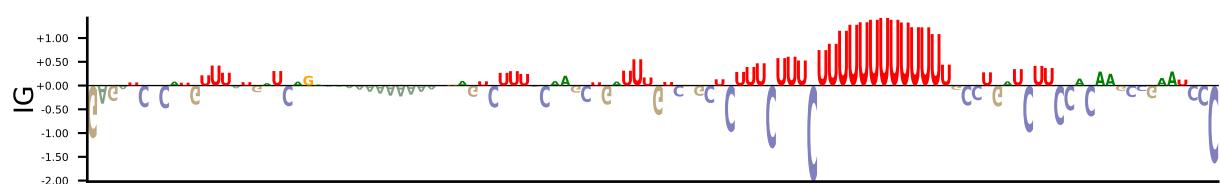
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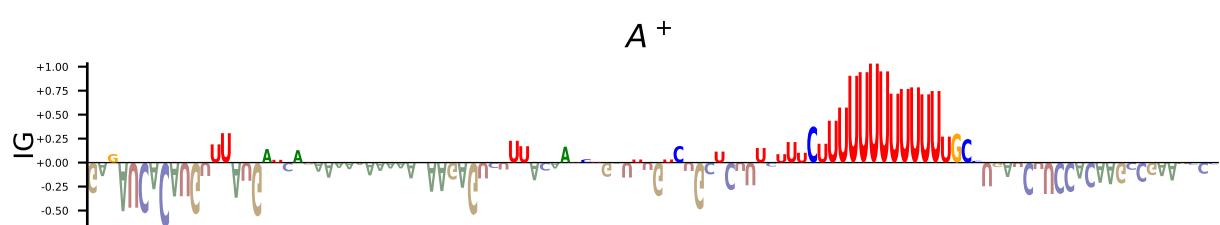
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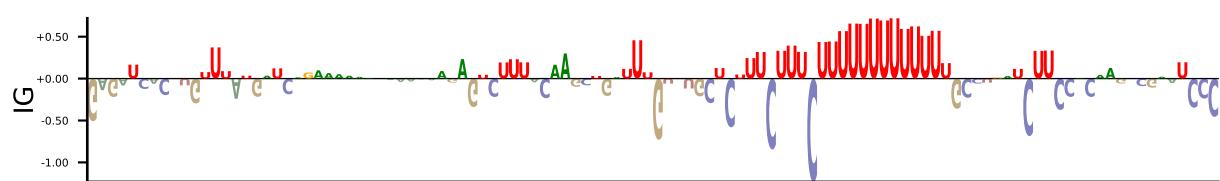
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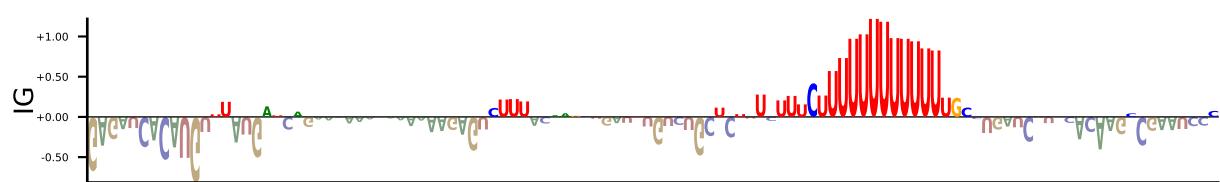
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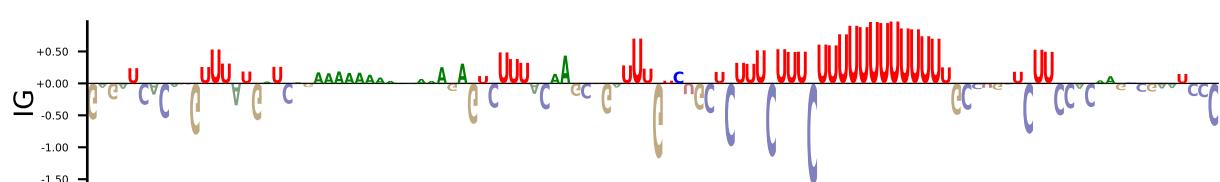
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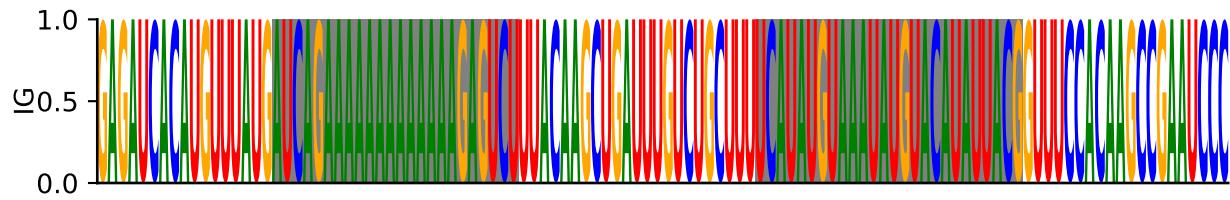
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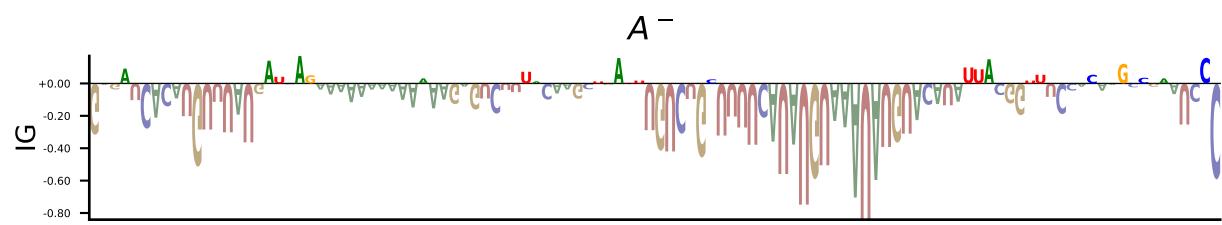
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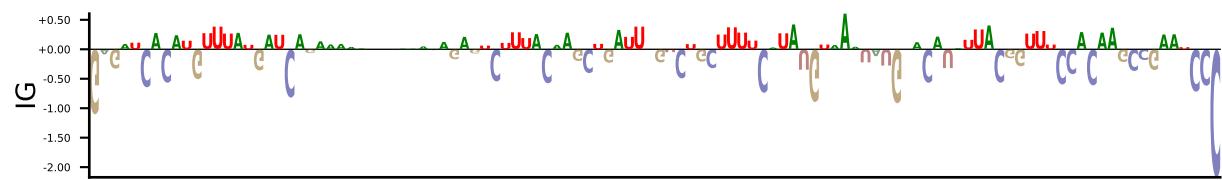
Highlighted motifs



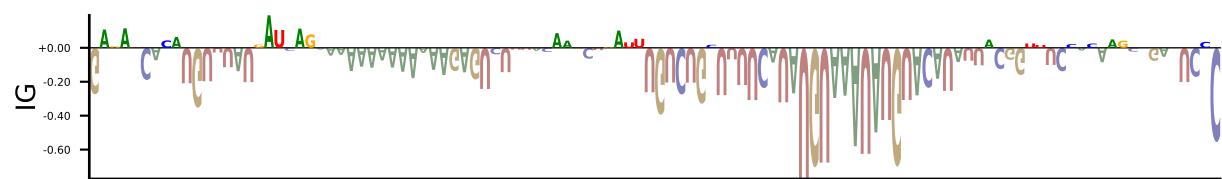
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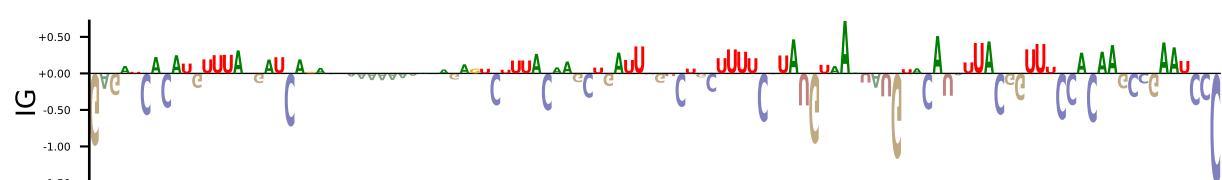
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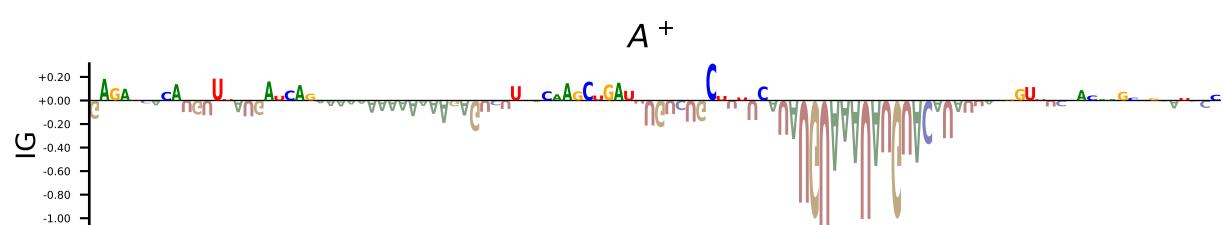
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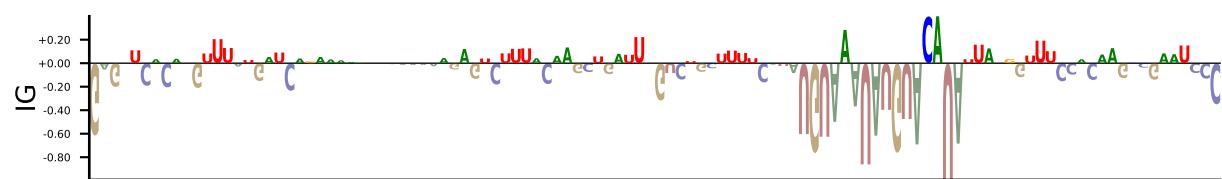
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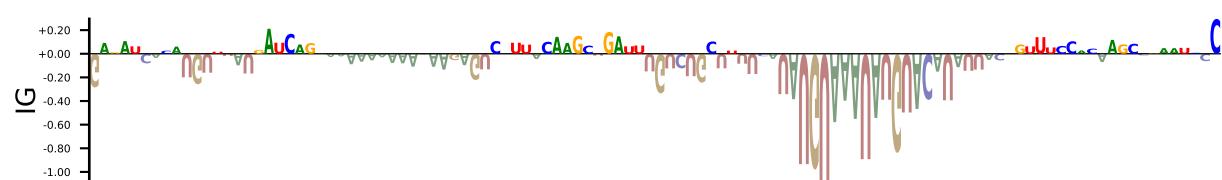
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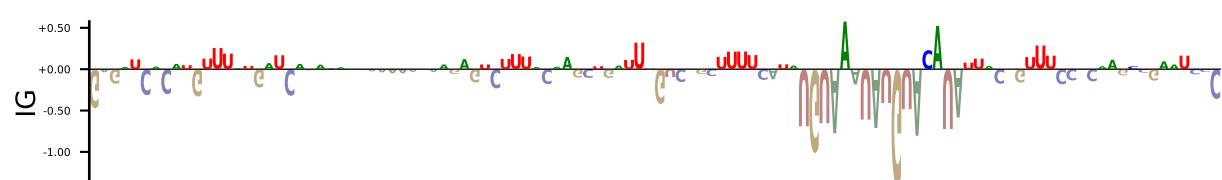
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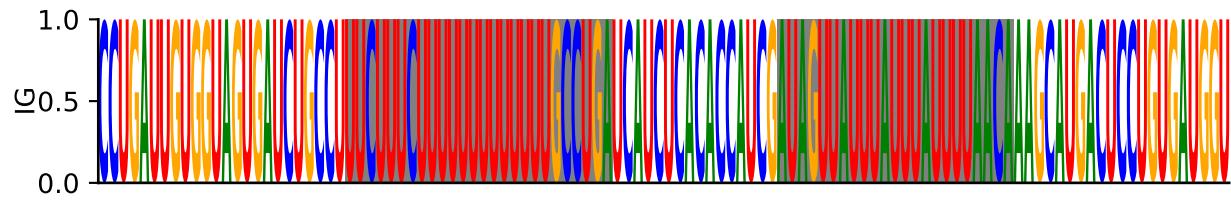
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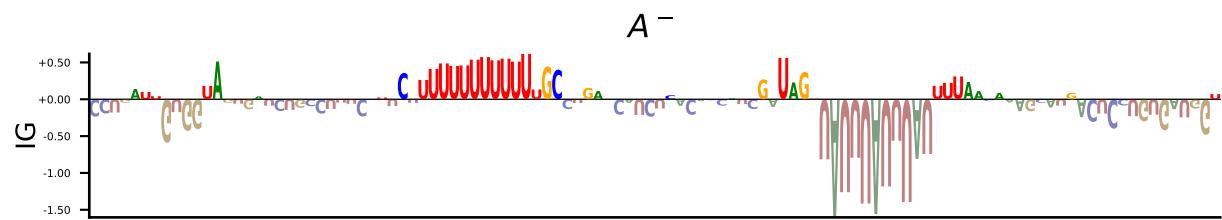
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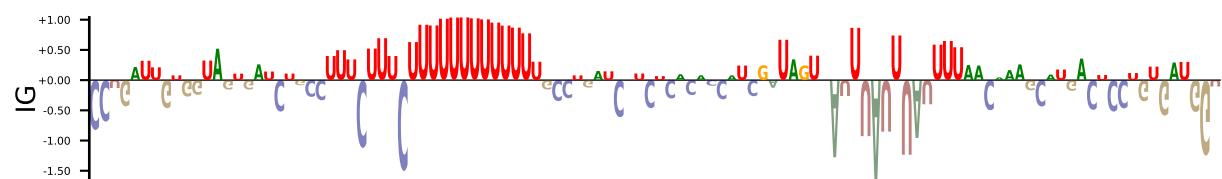
Highlighted motifs



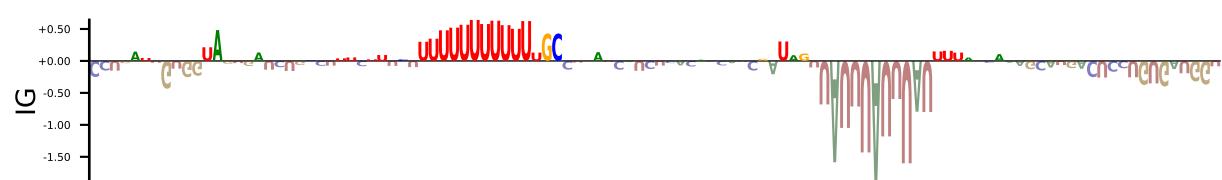
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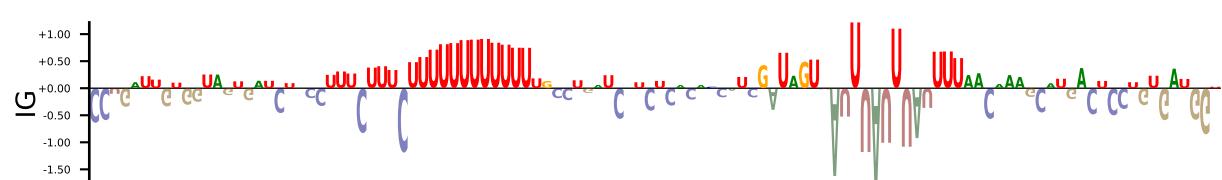
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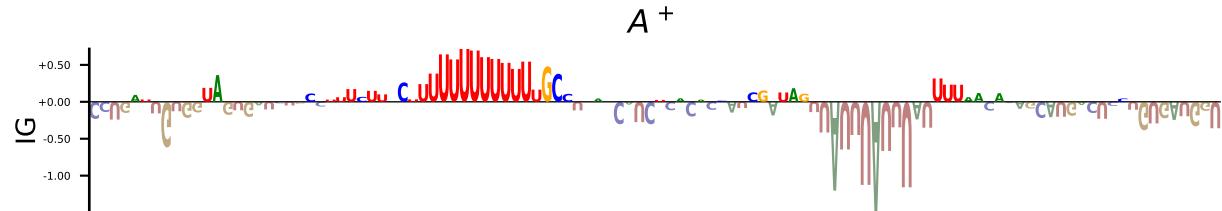
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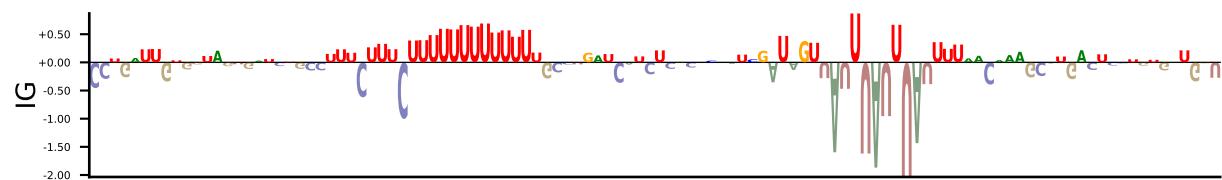
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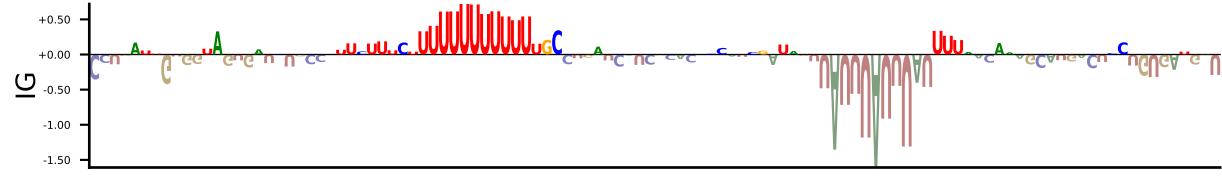
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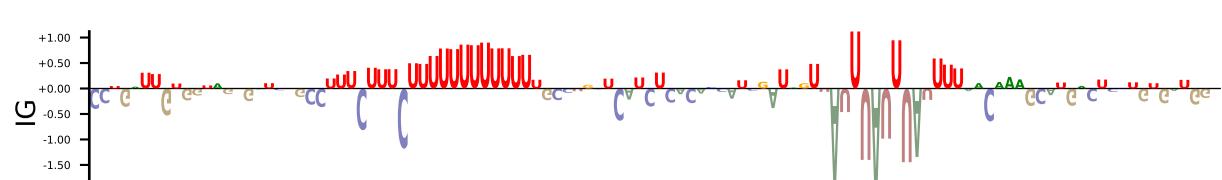
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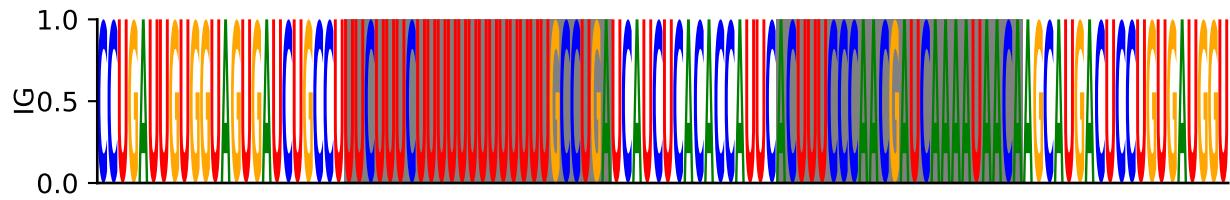
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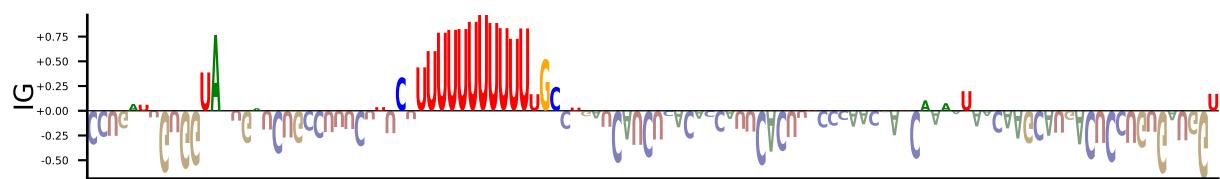
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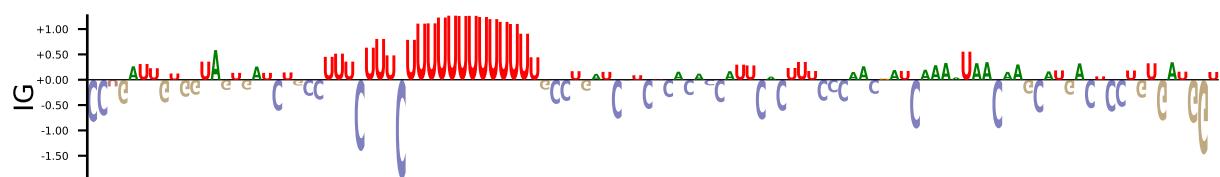
Highlighted motifs



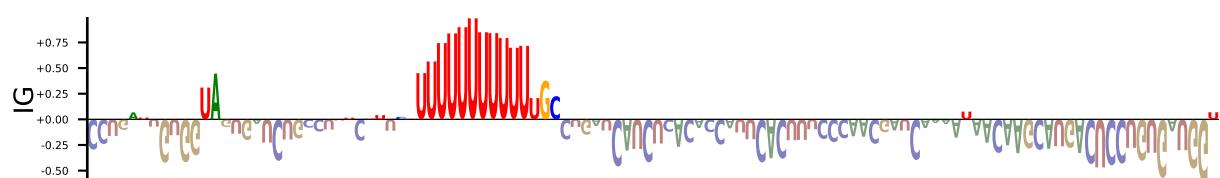
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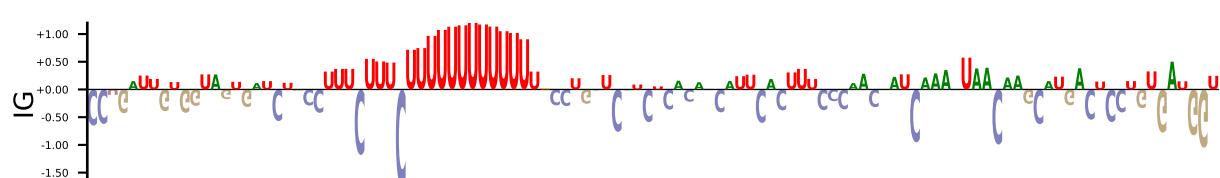
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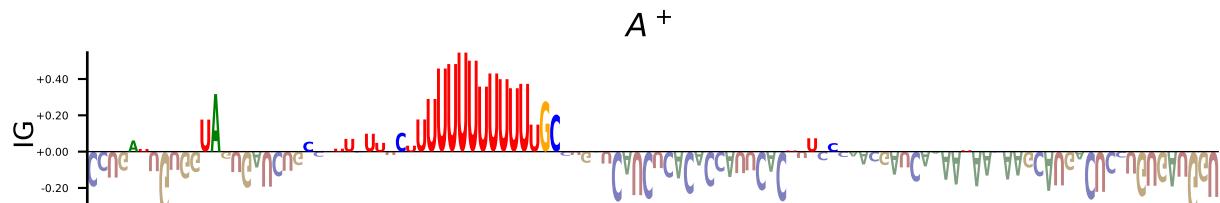
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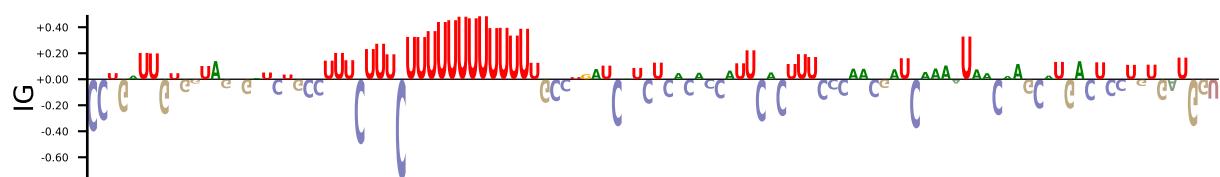
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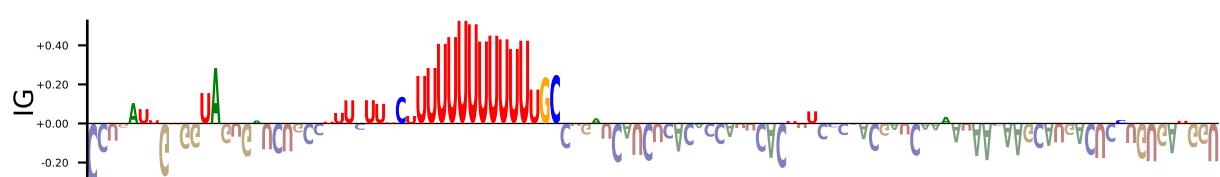
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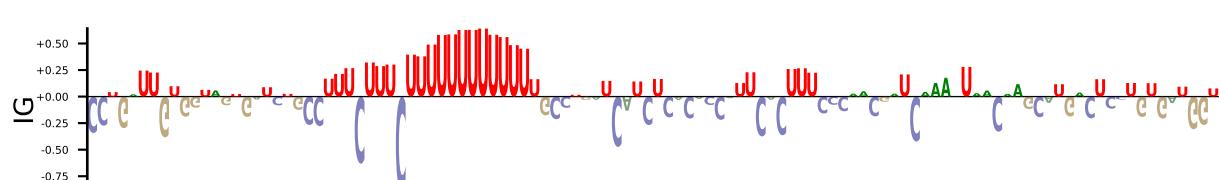
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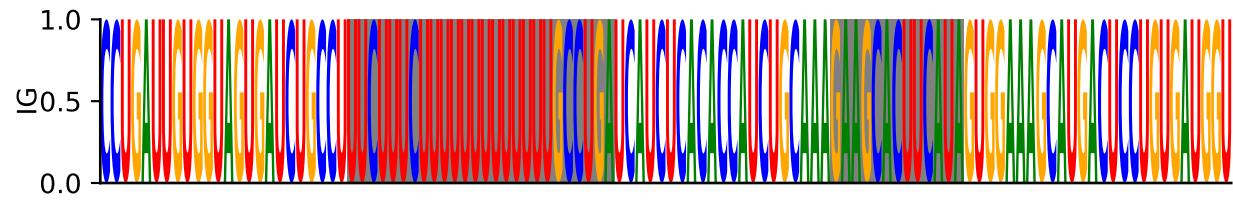
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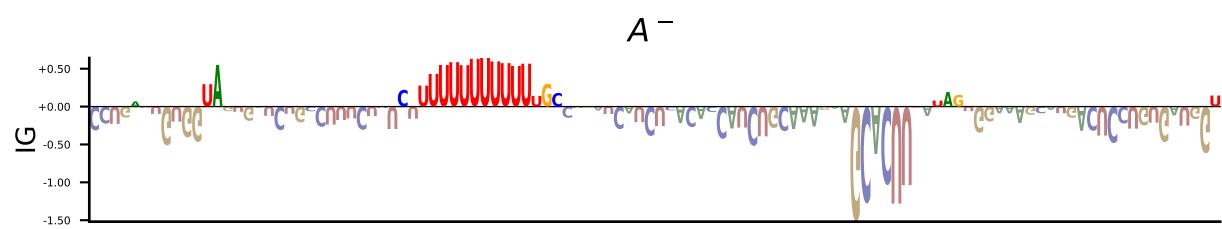
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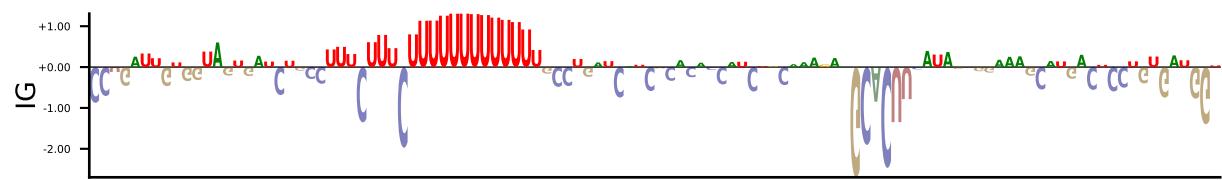
Highlighted motifs



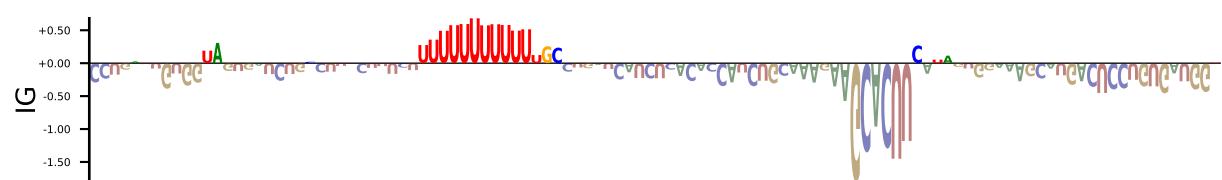
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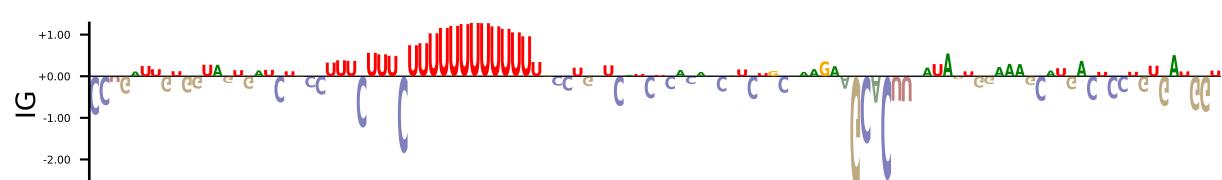
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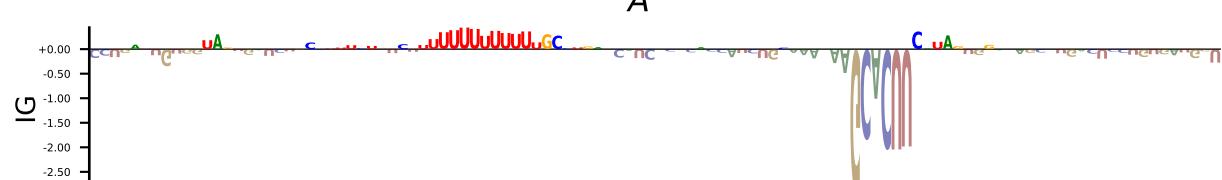
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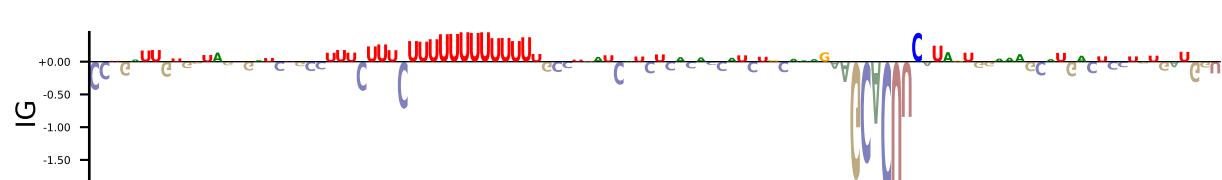
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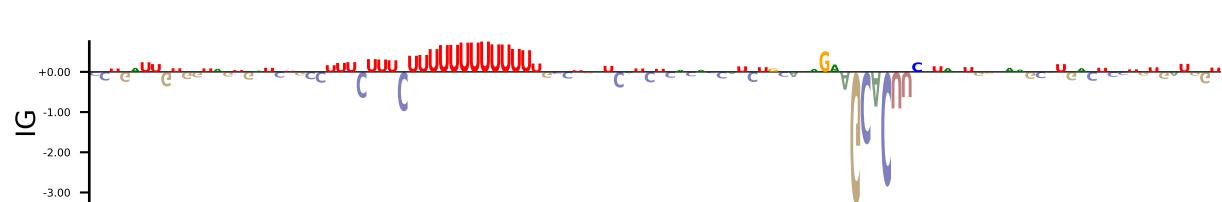
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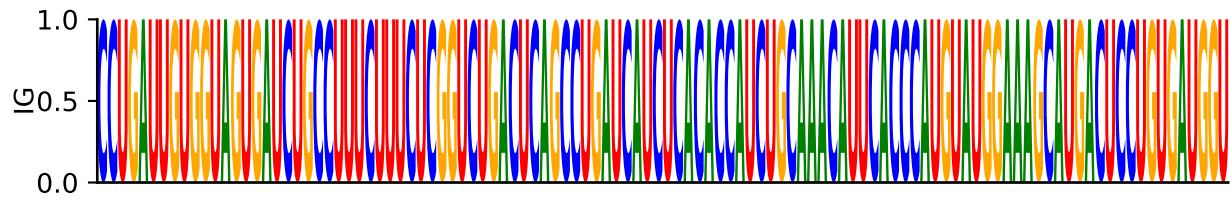
multi-CNN



multi-RNN

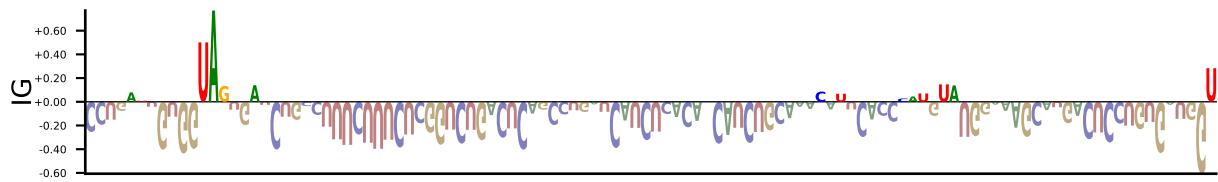


Highlighted motifs

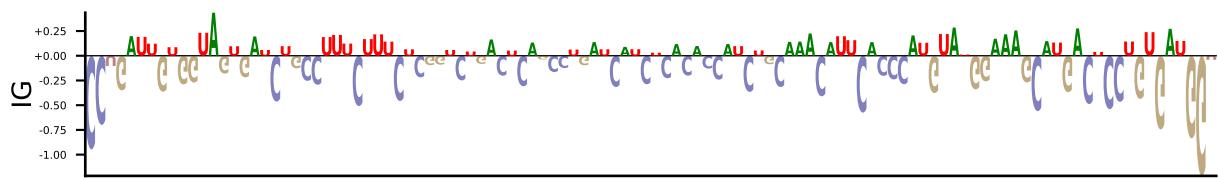


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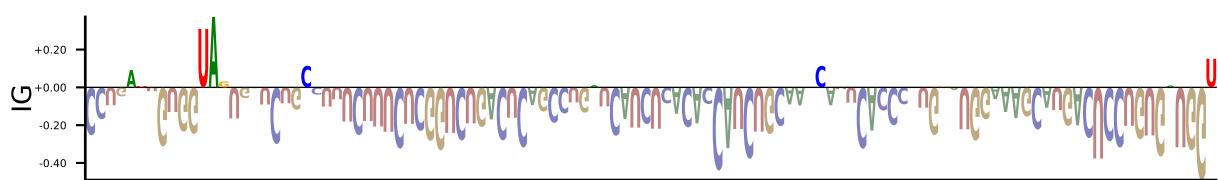
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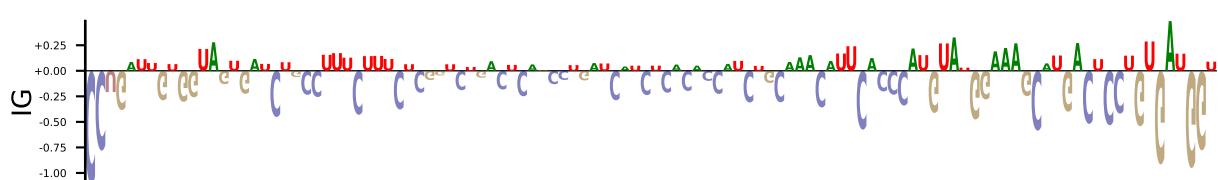
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multi-CNN

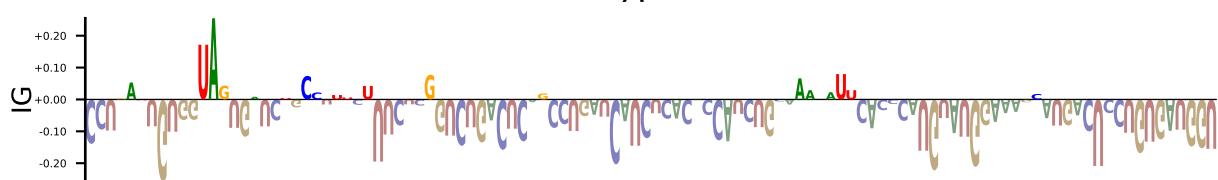


multi-RNN

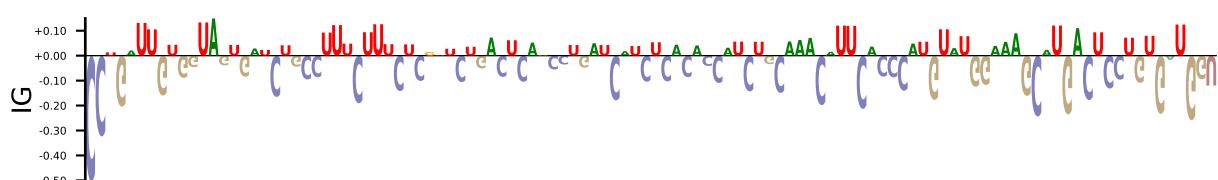


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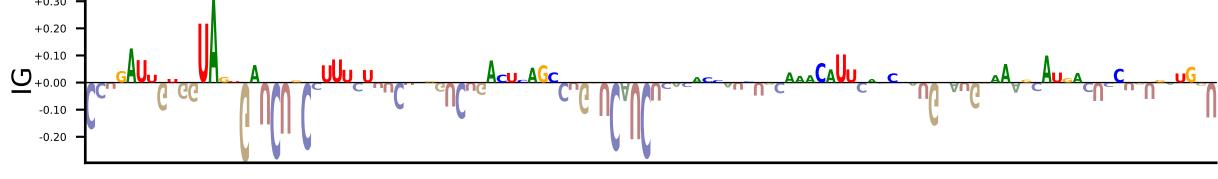
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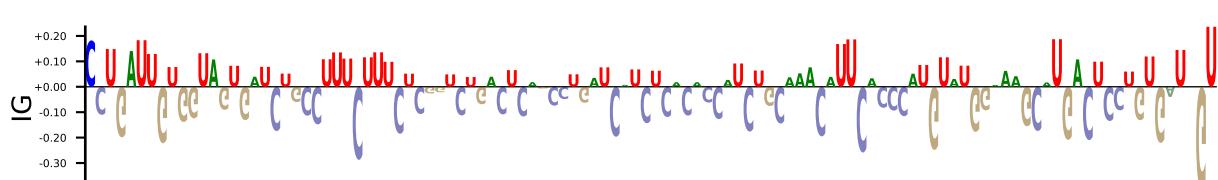
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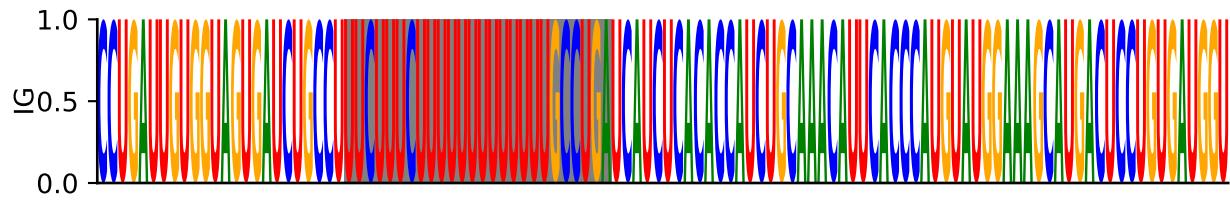
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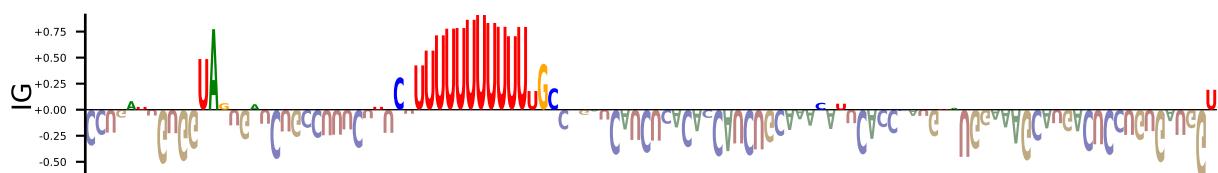
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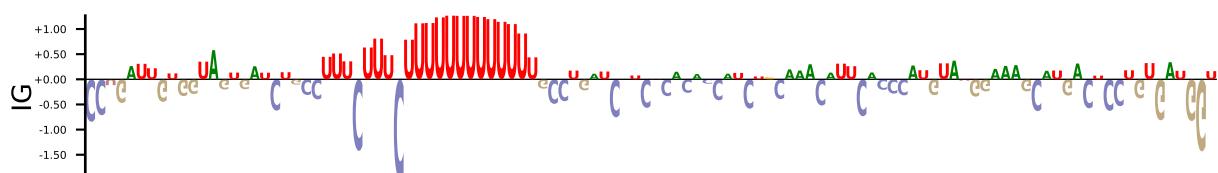
Highlighted motifs



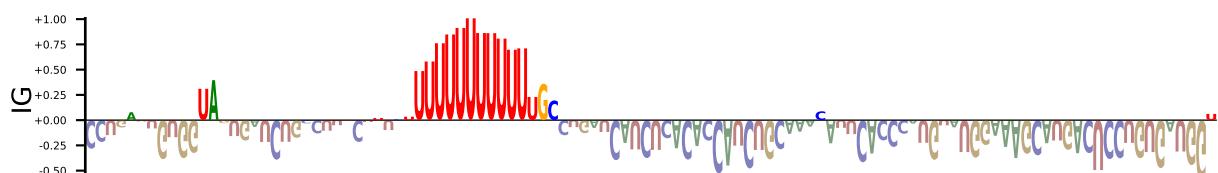
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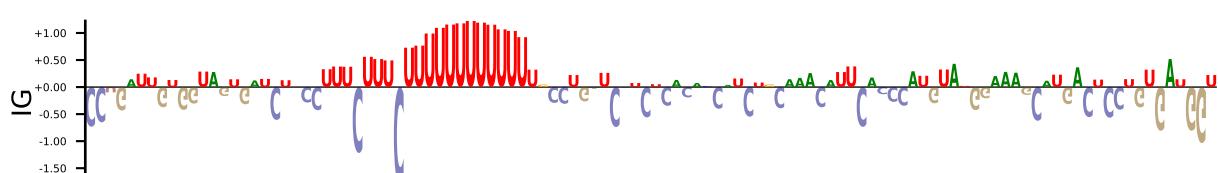
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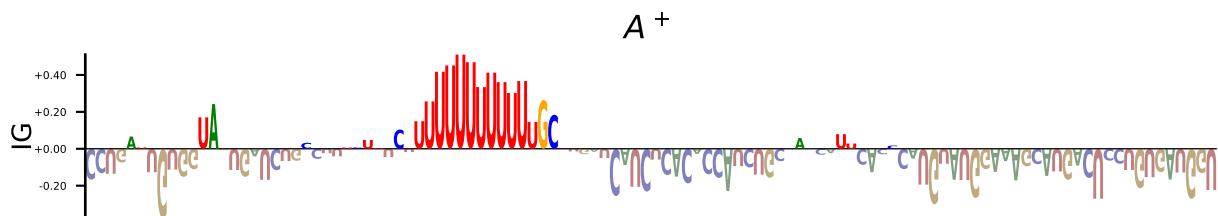
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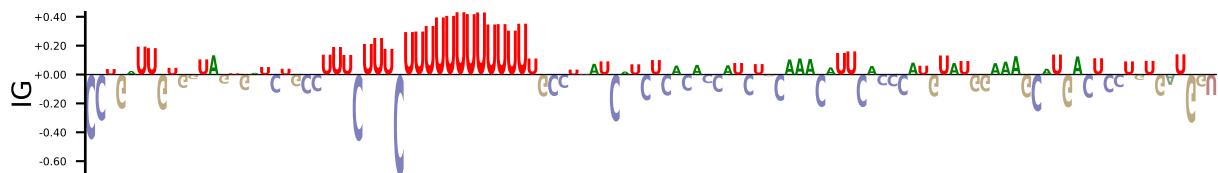
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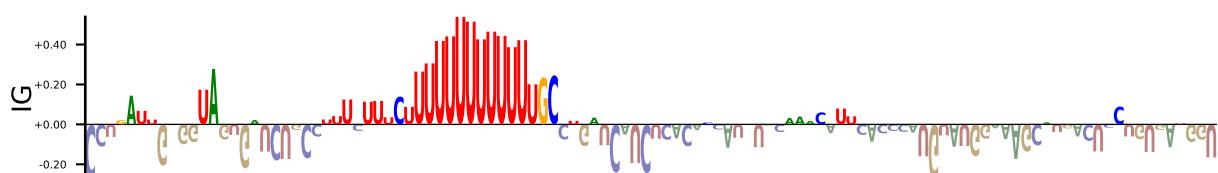
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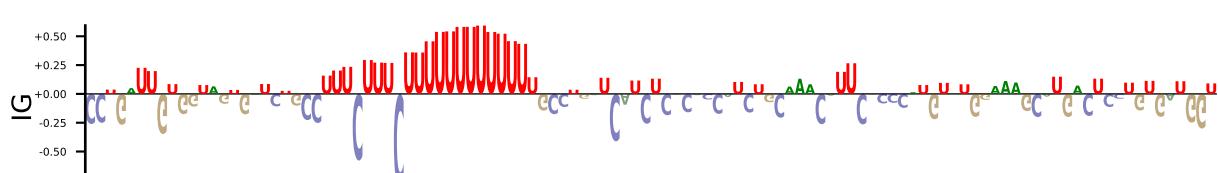
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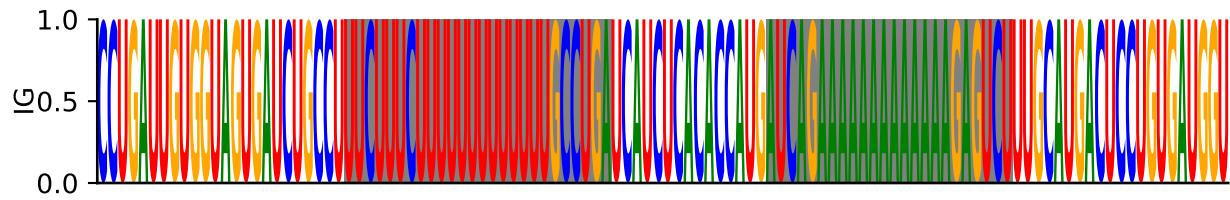
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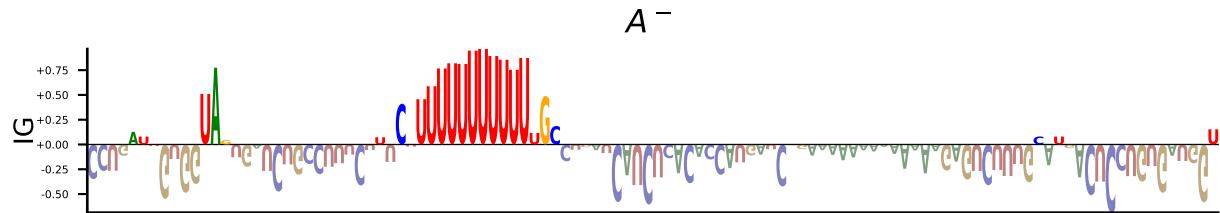
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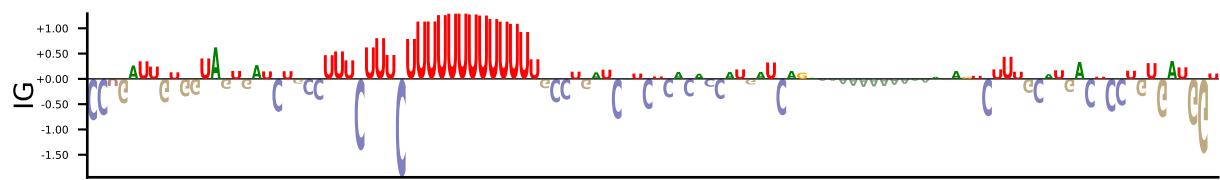
Highlighted motifs



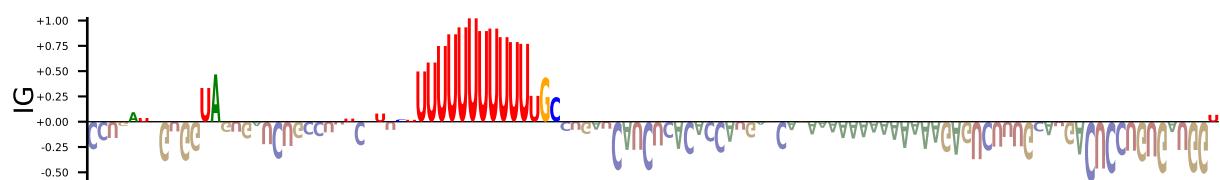
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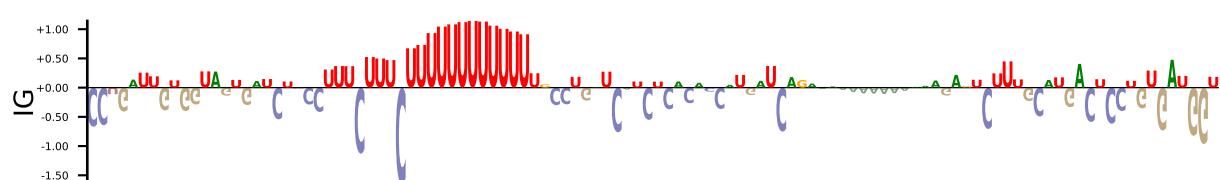
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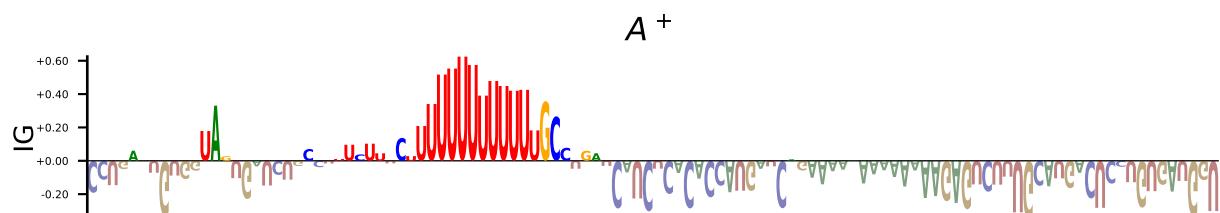
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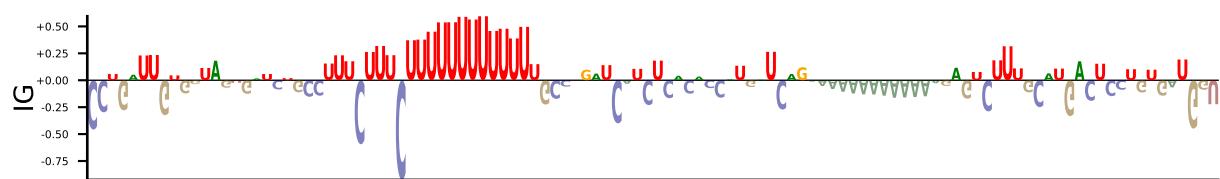
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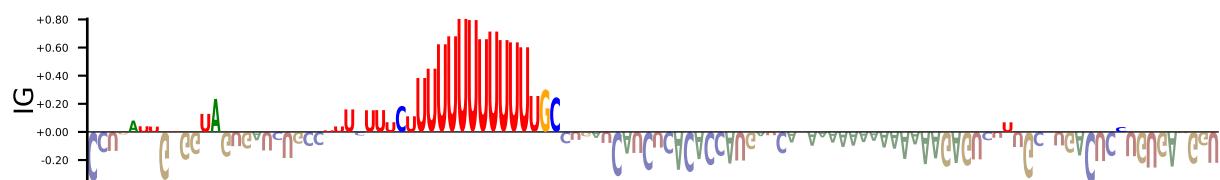
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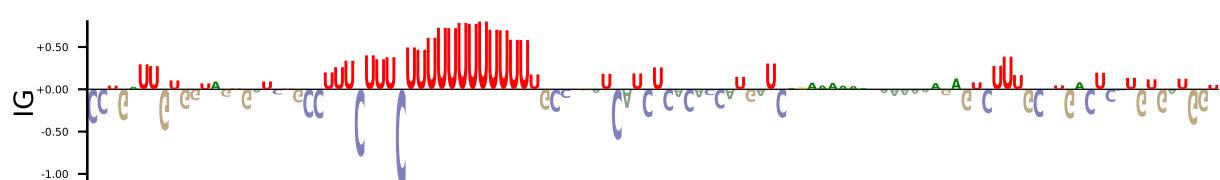
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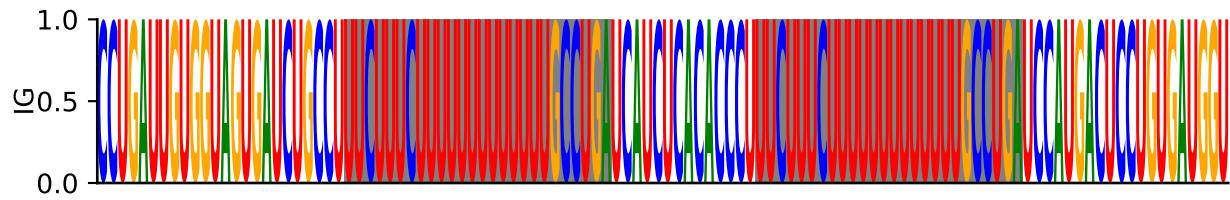
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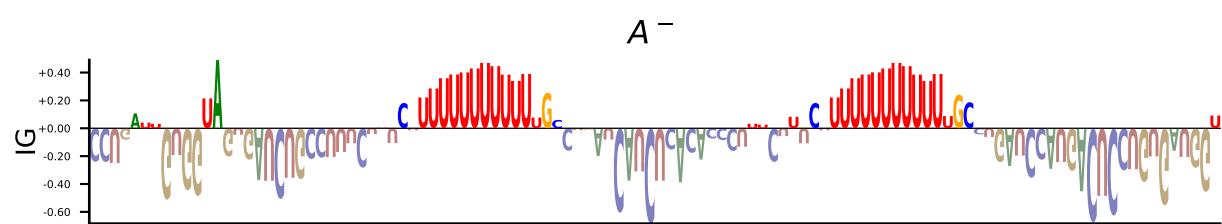
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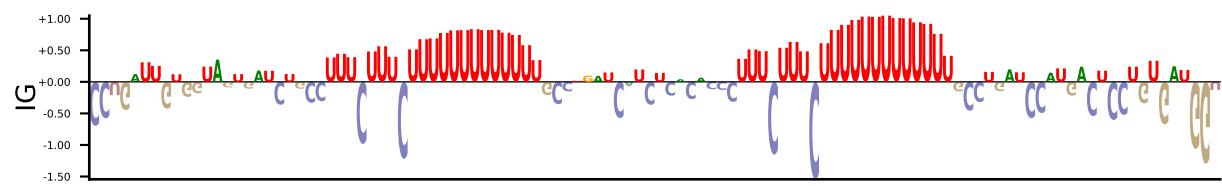
Highlighted motifs



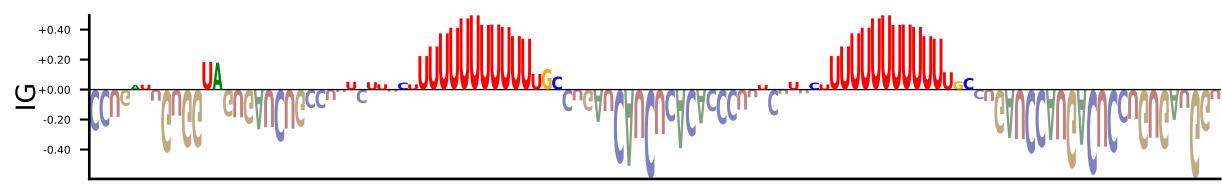
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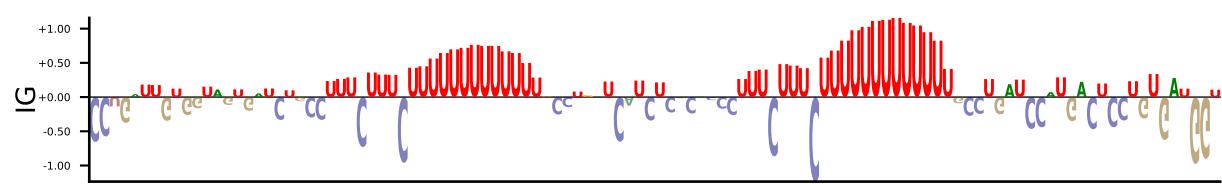
single-RNN



multi-CNN

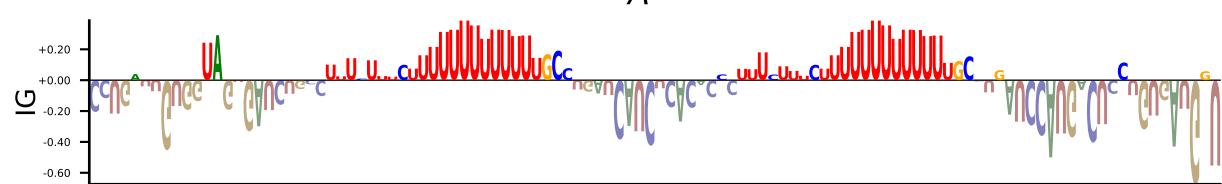


multi-RNN

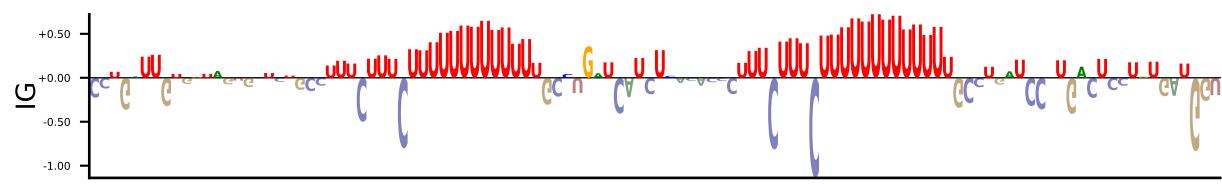


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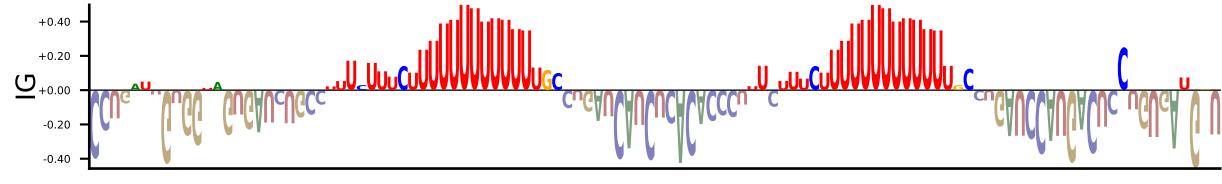
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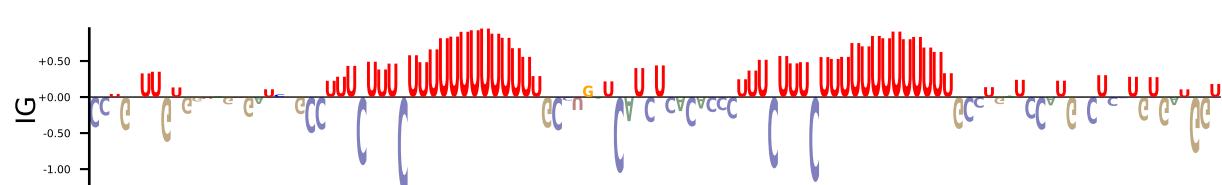
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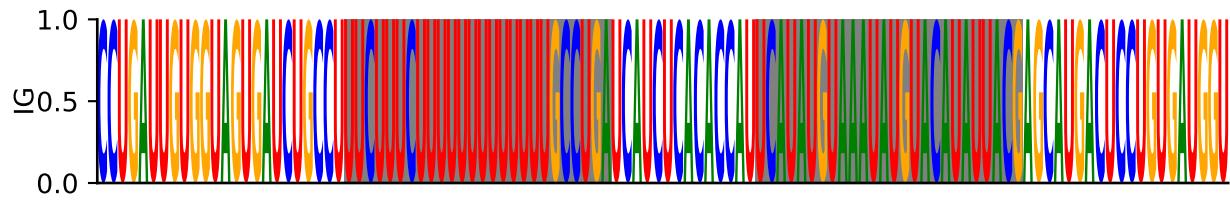
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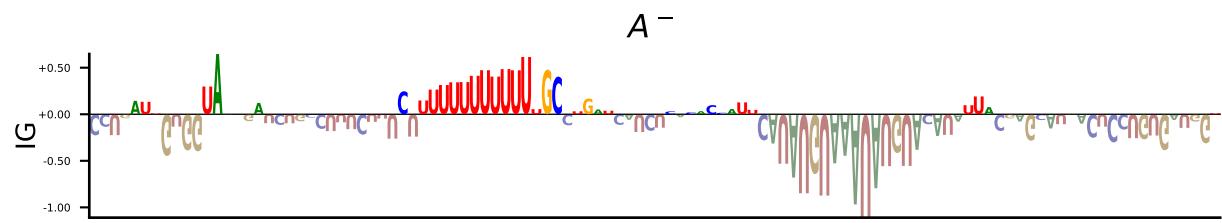
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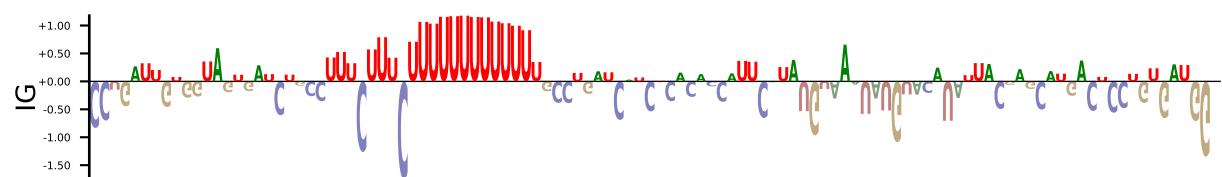
Highlighted motifs



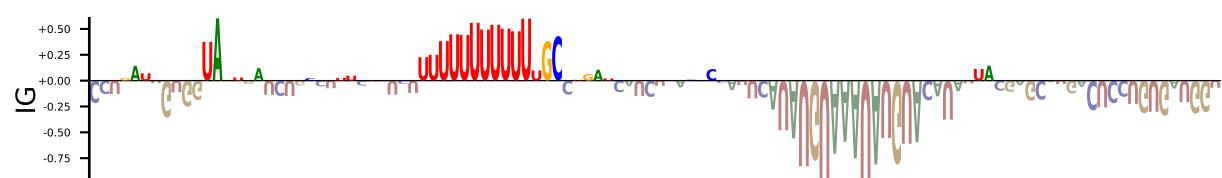
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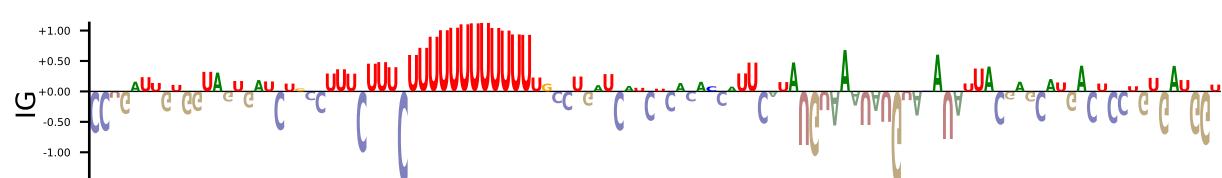
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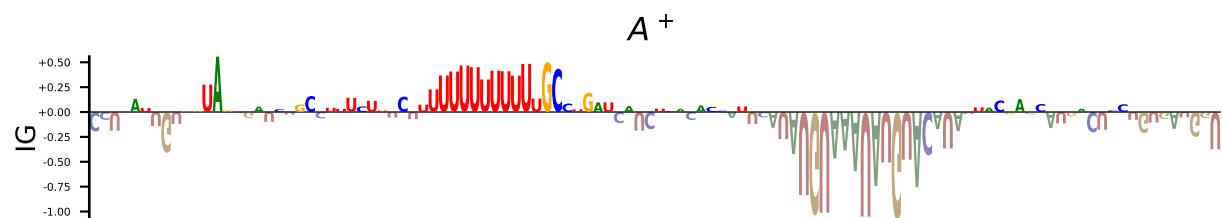
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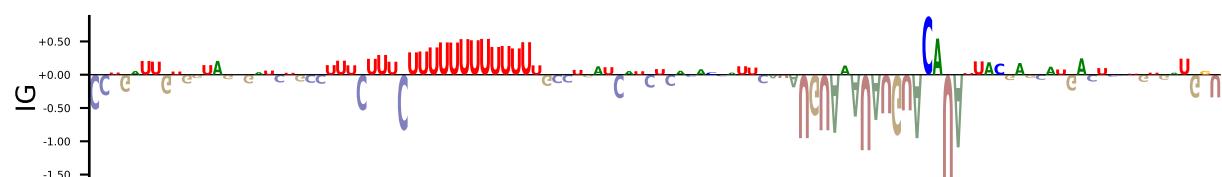
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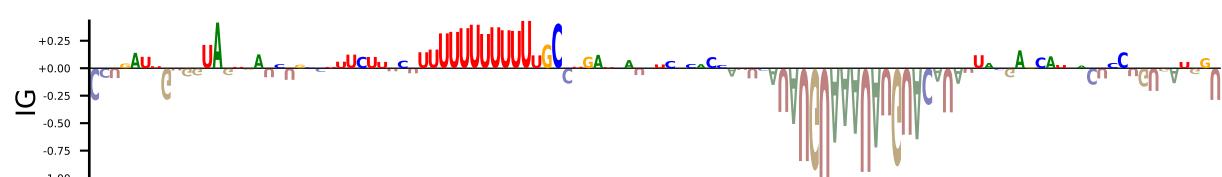
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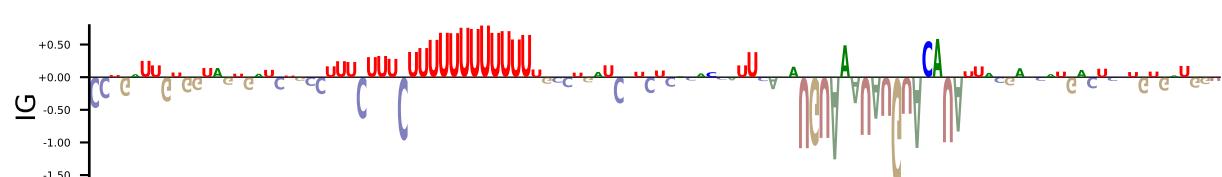
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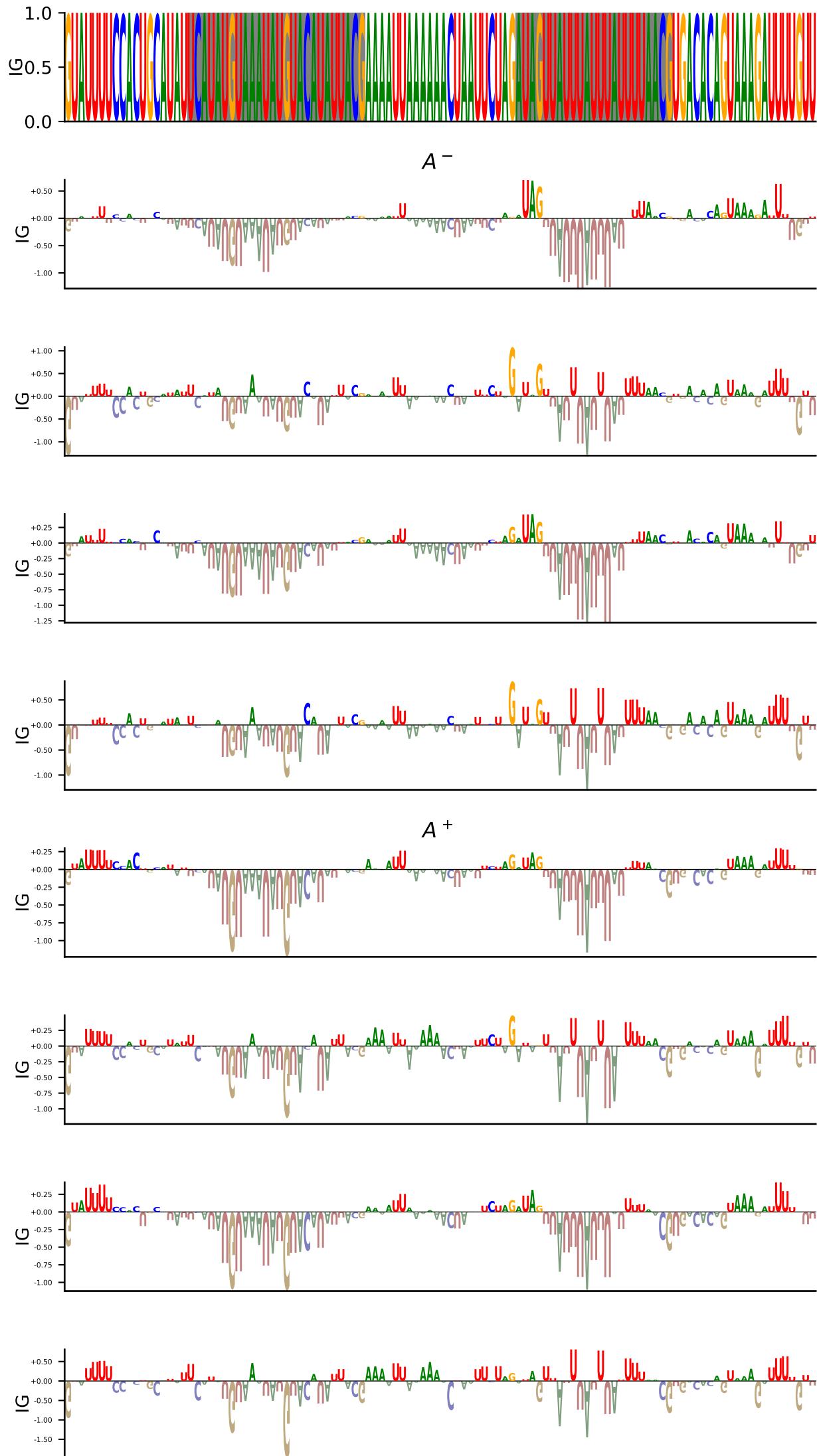
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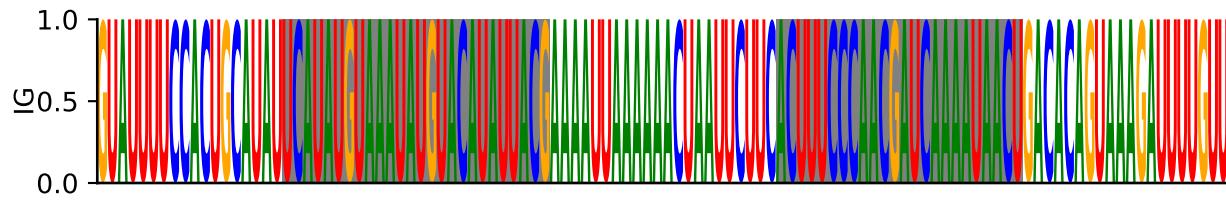
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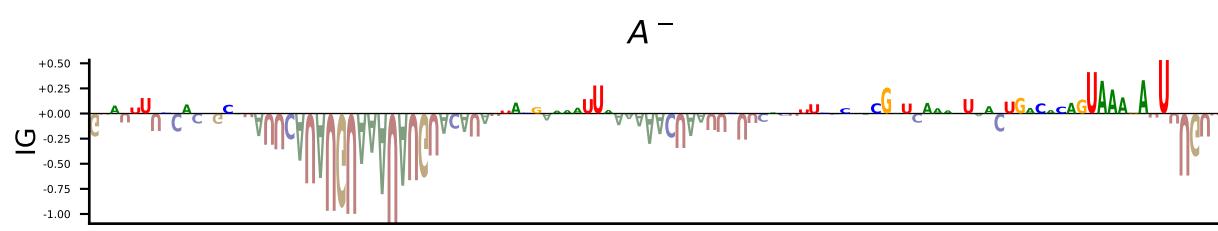
Highlighted motifs



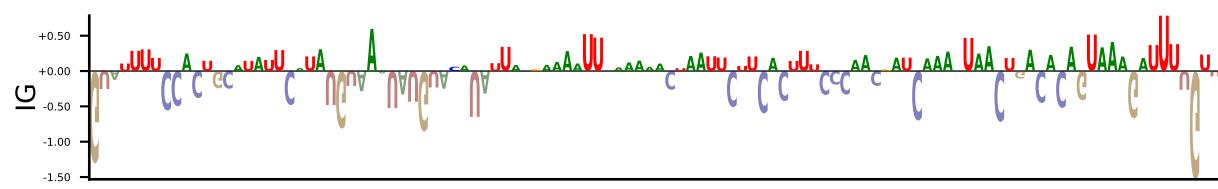
Highlighted motifs



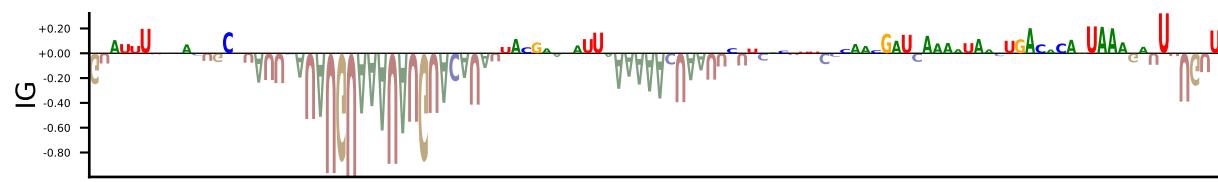
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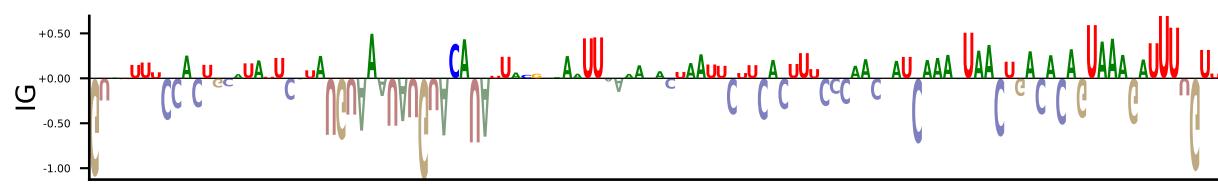
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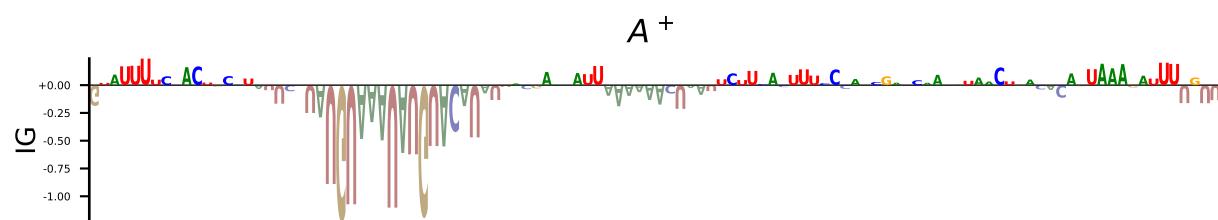
multi-CNN



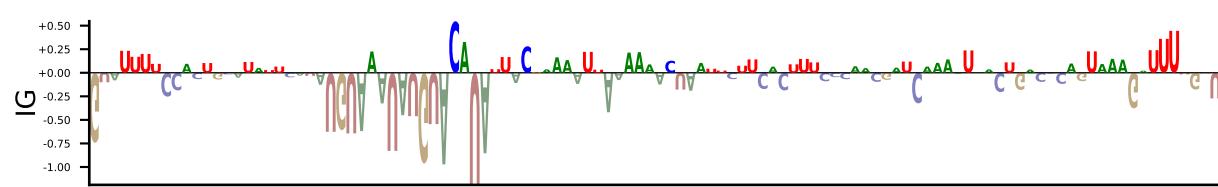
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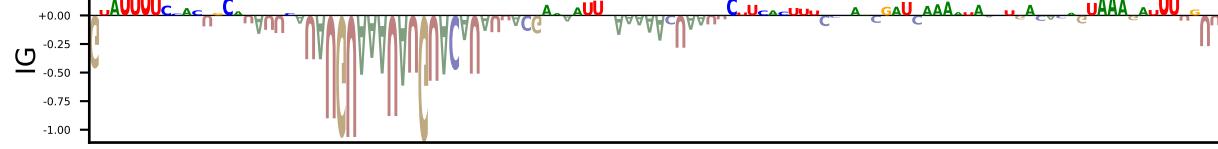
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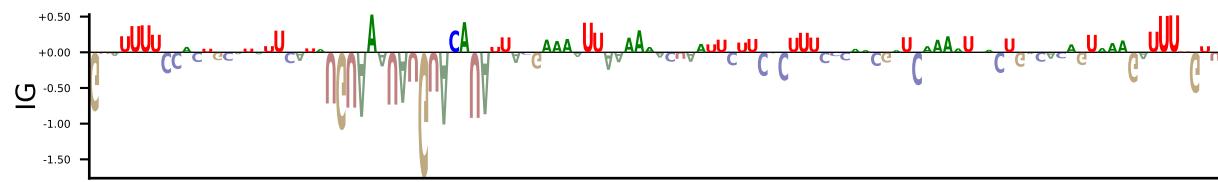
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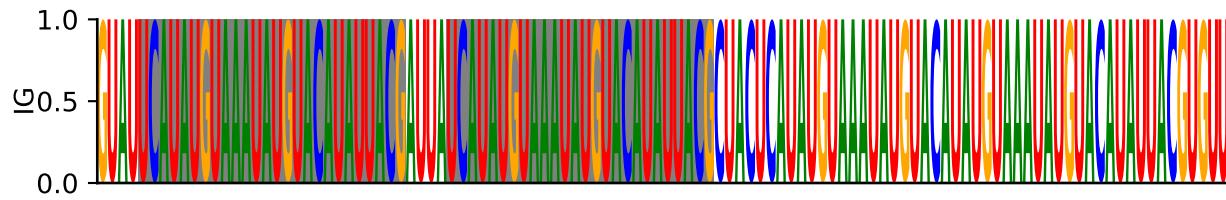
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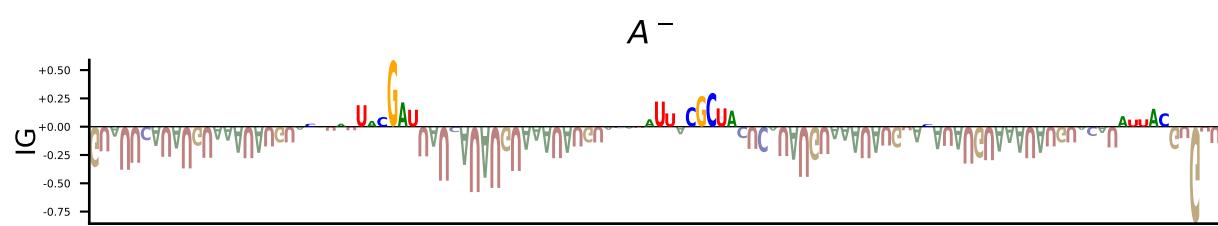
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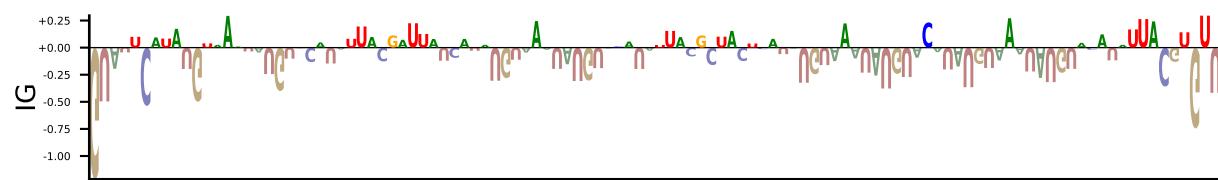
Highlighted motifs



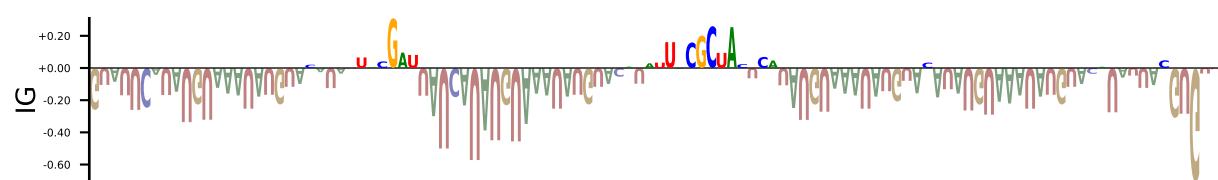
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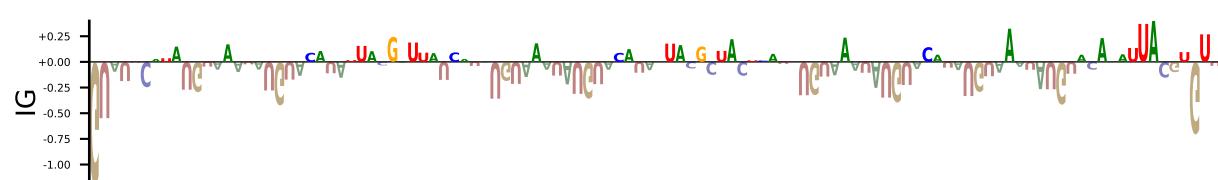
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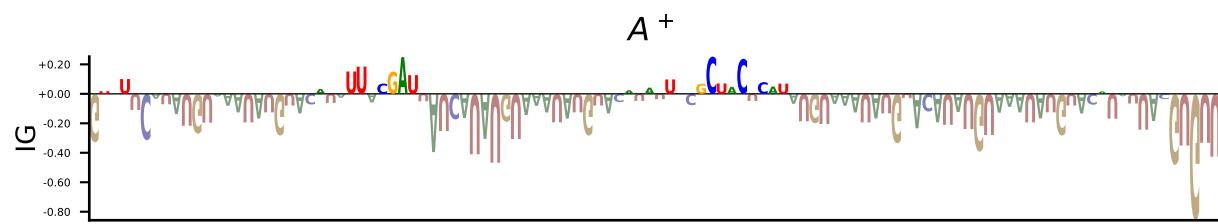
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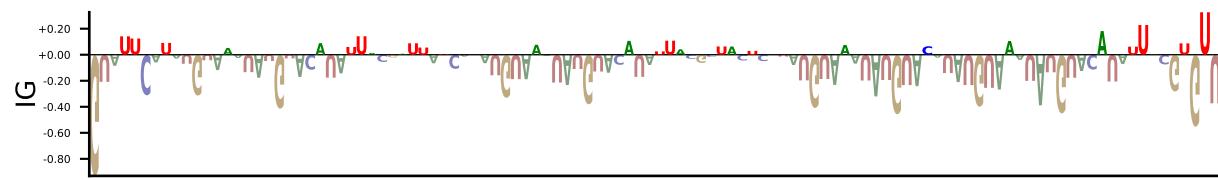
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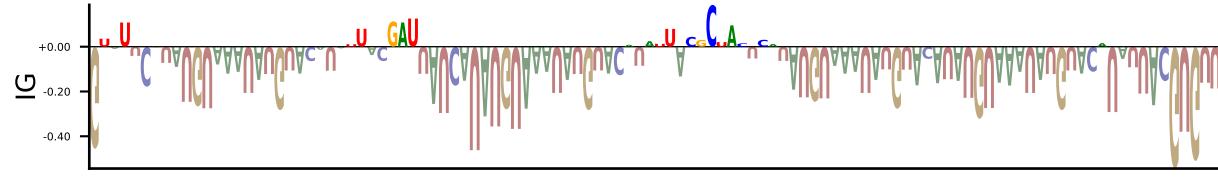
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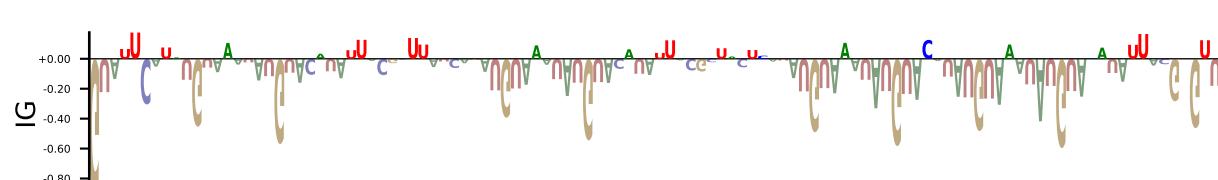
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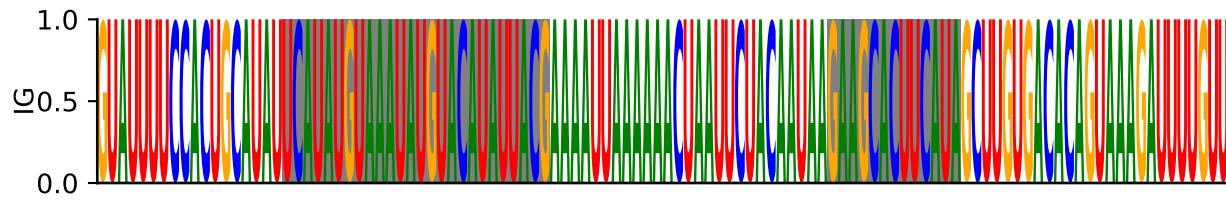
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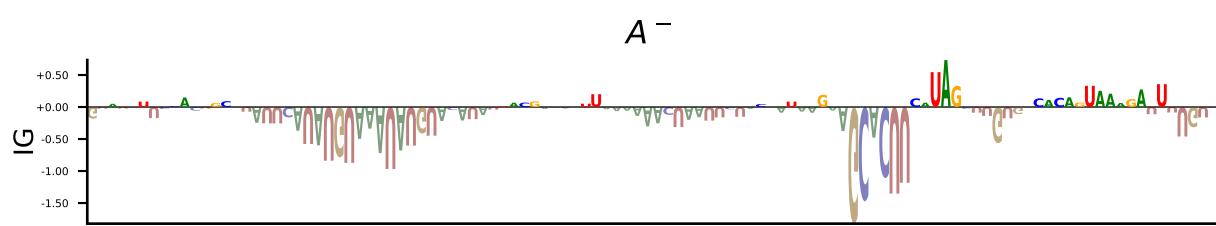
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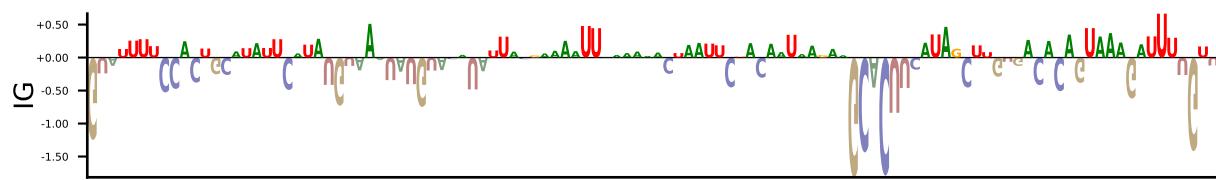
Highlighted motifs



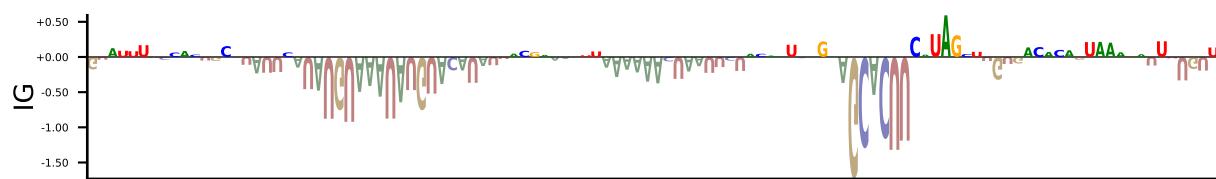
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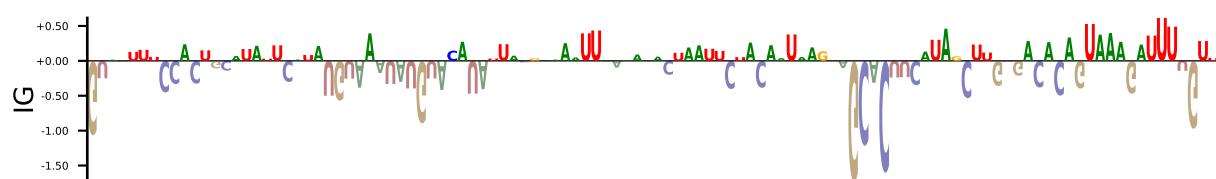
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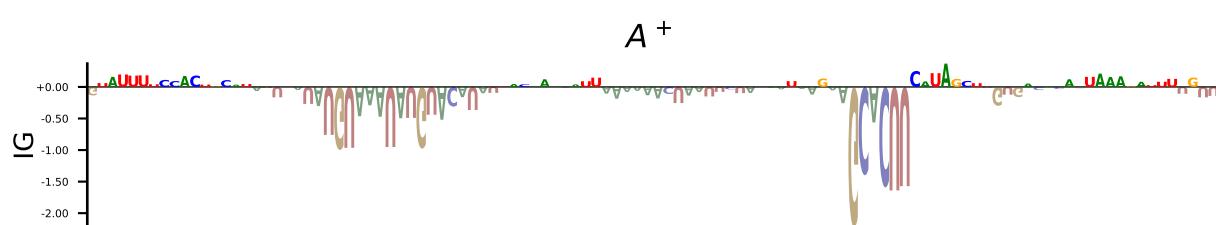
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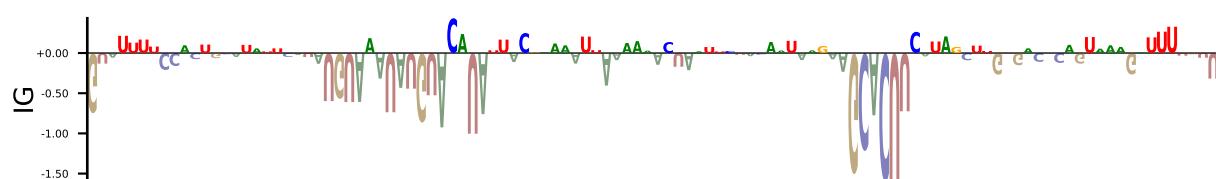
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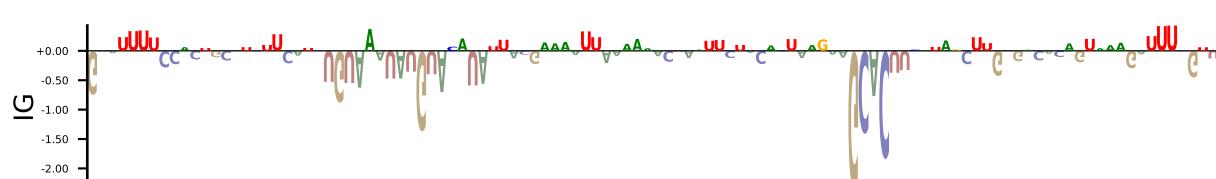
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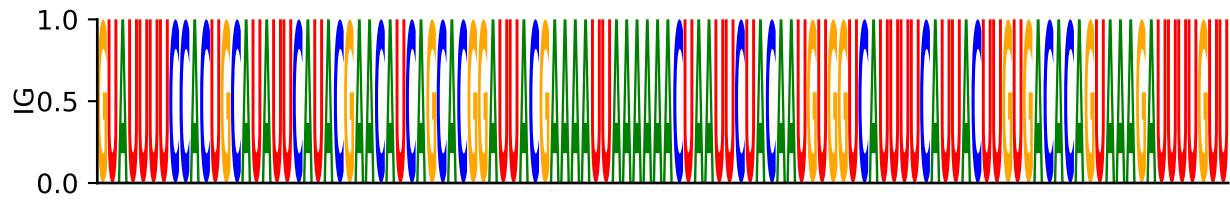
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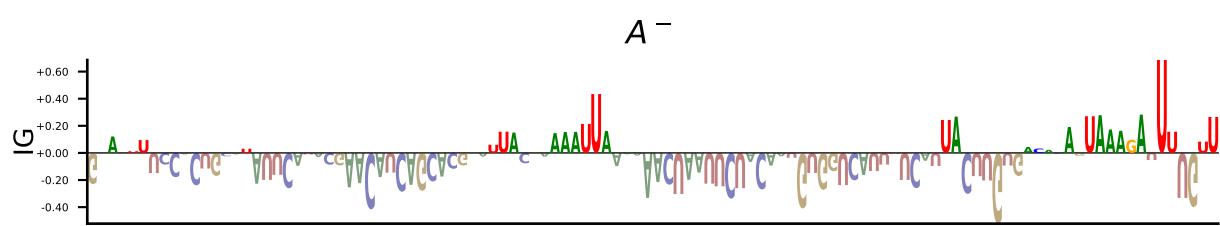
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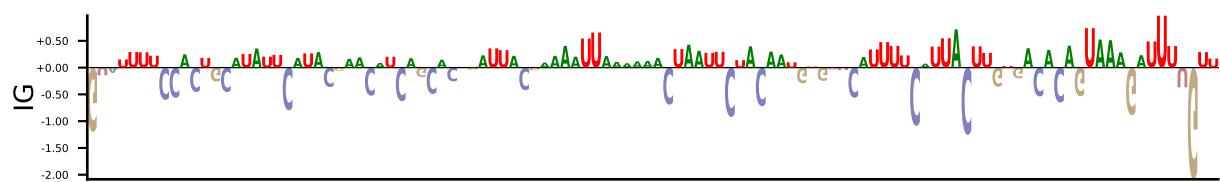
Highlighted motifs



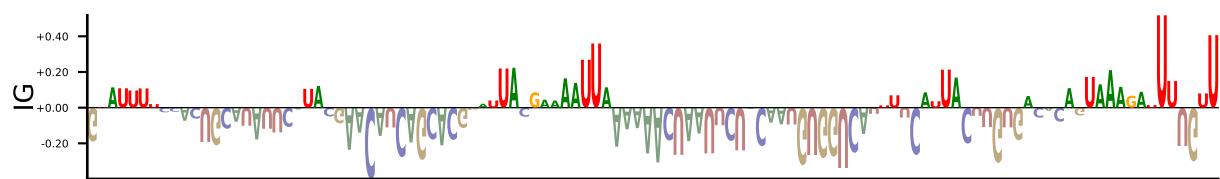
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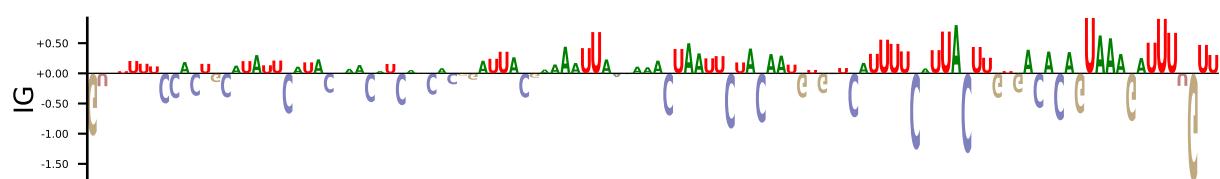
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multi-CNN

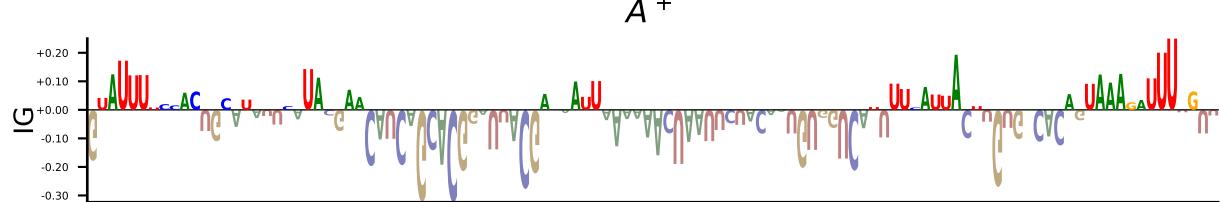


multi-RNN

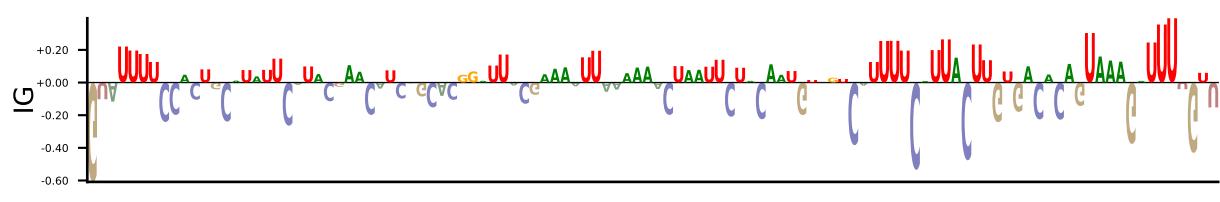


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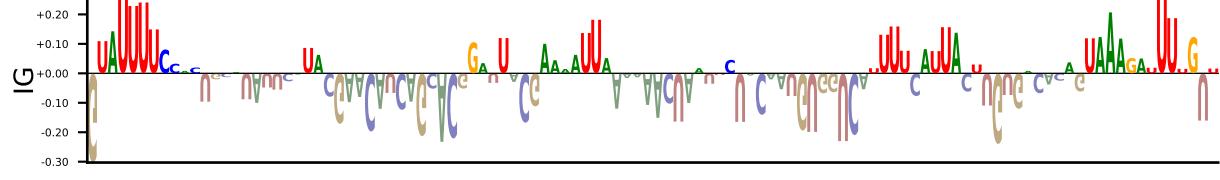
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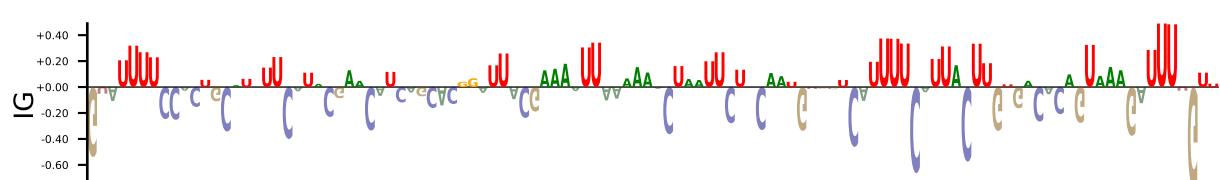
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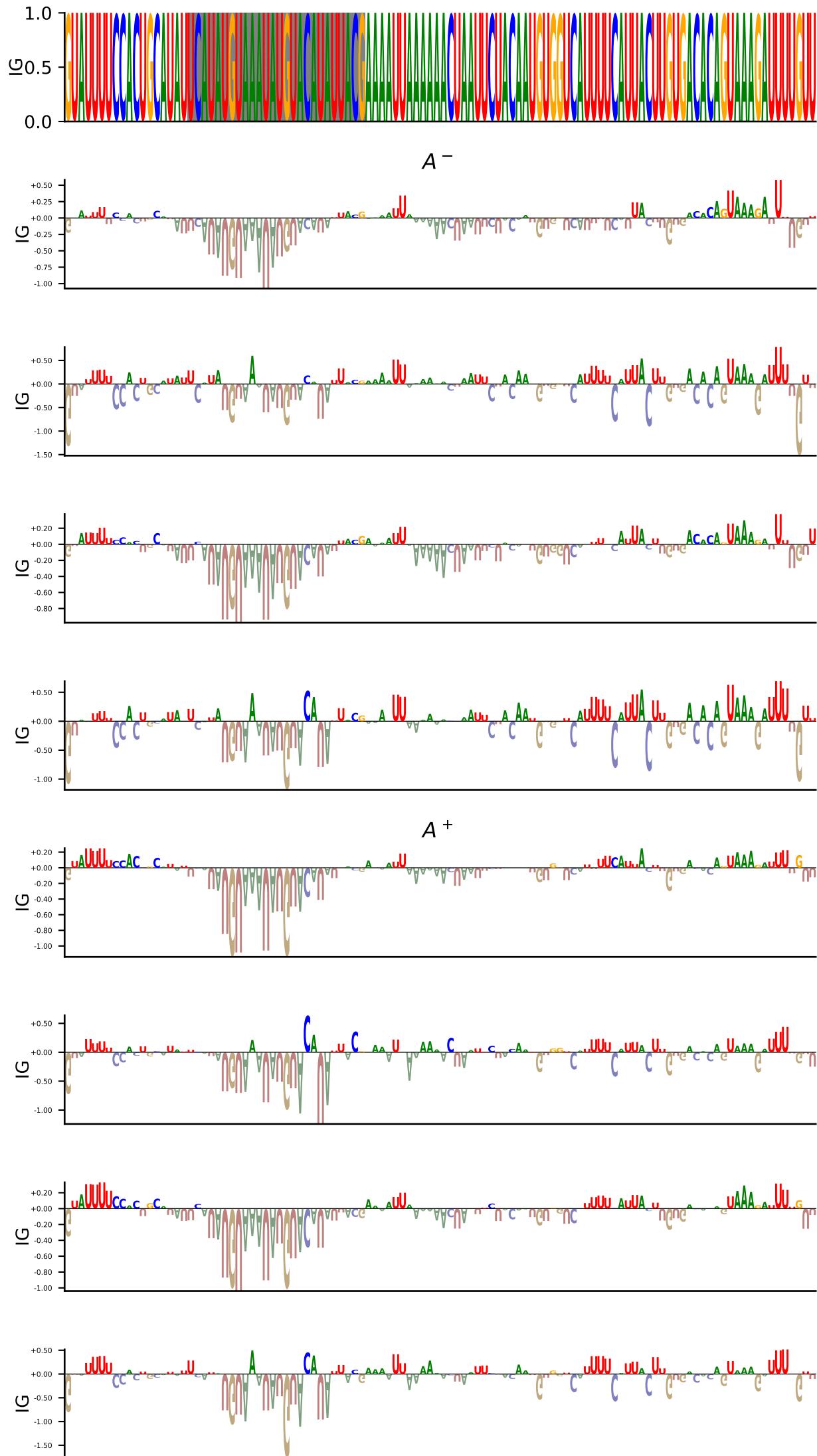
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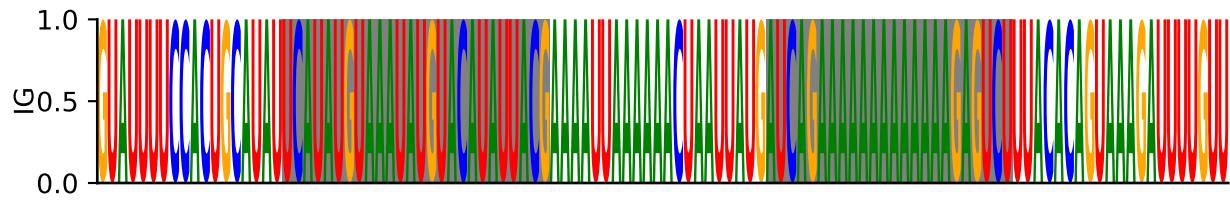
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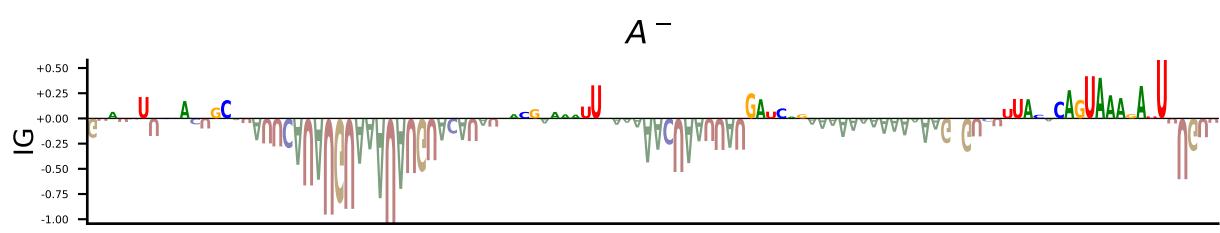
Highlighted motifs



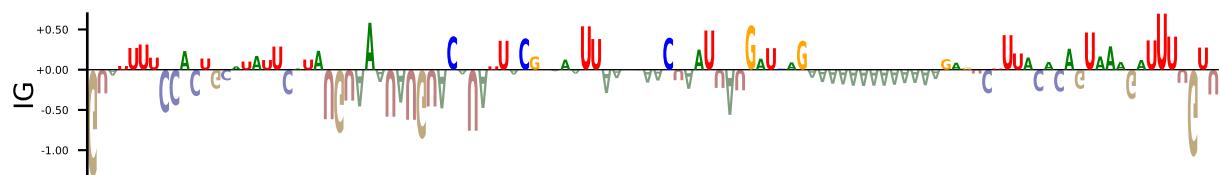
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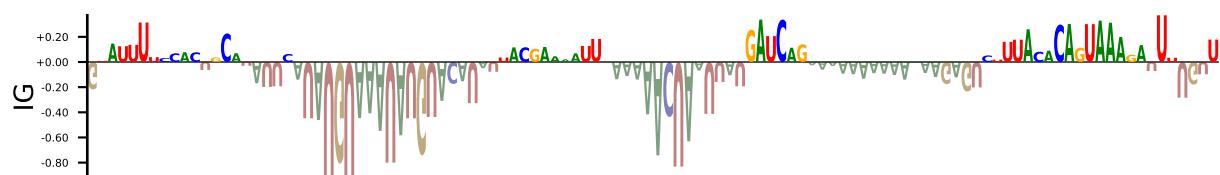
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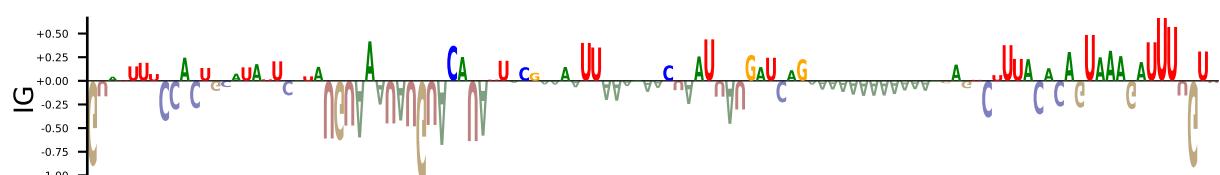
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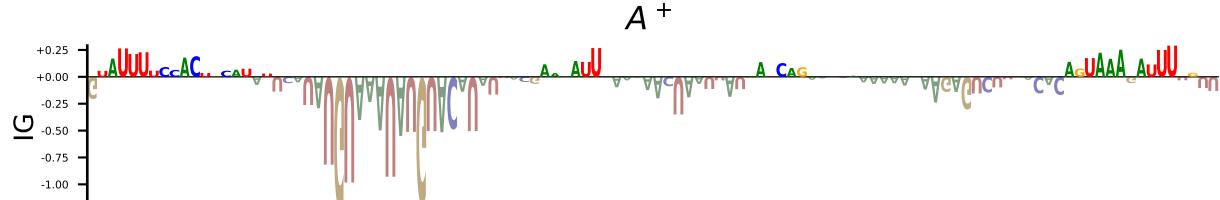
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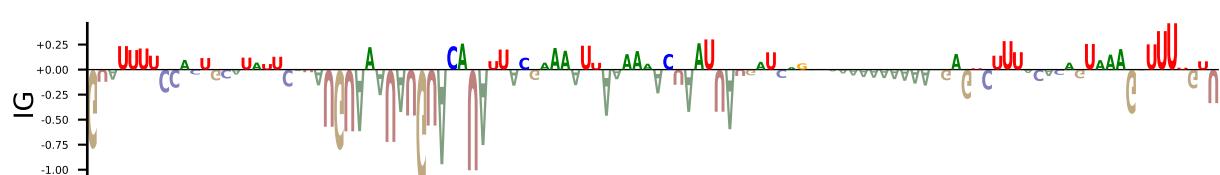
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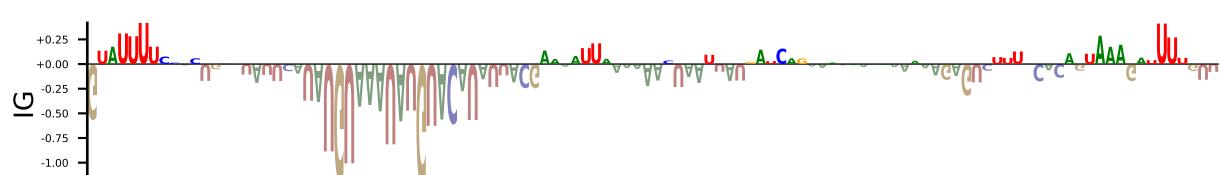
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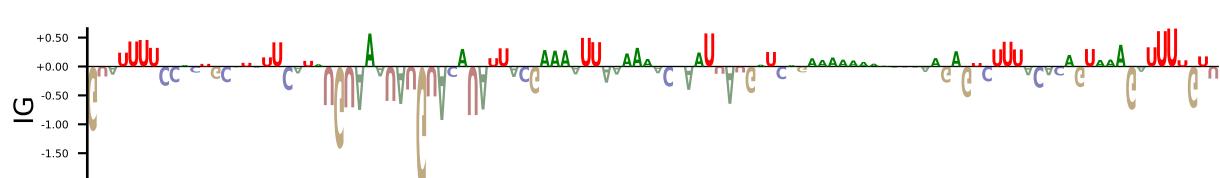
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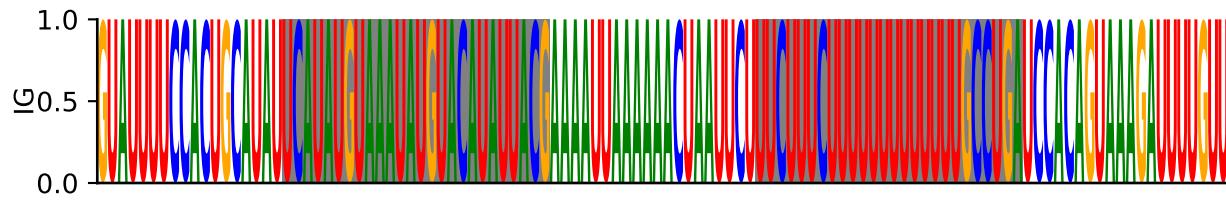
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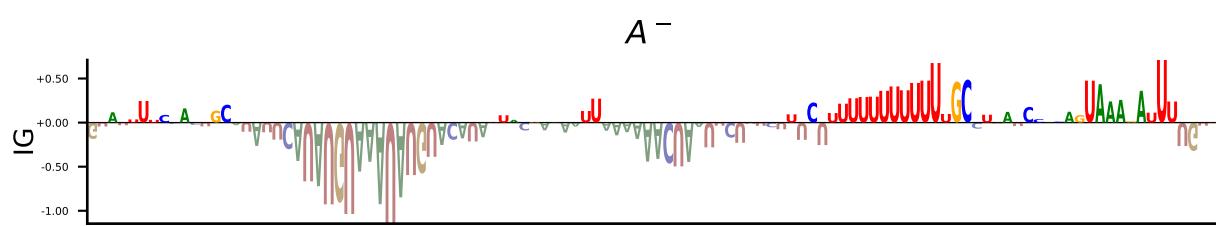
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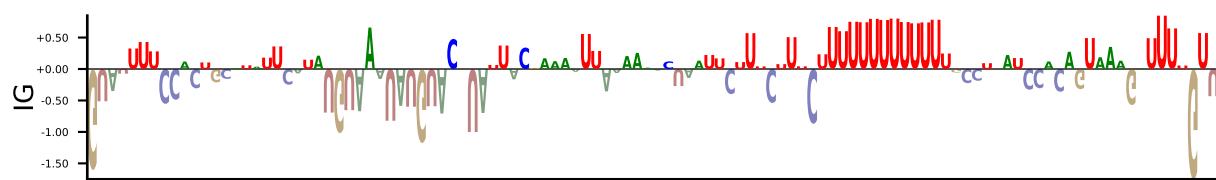
Highlighted motifs



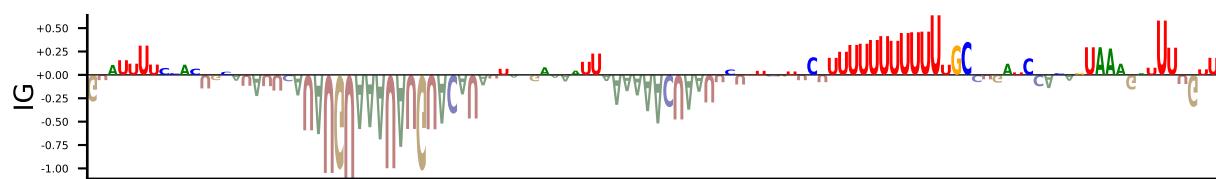
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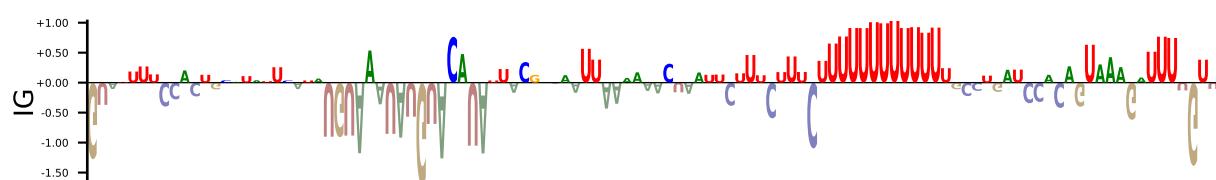
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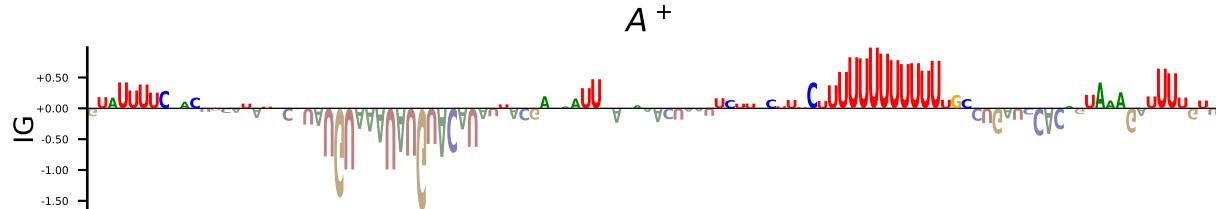
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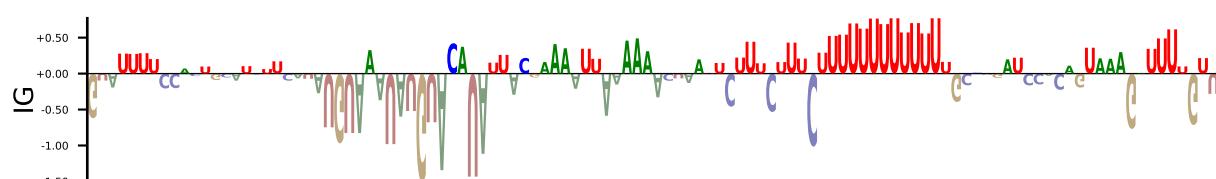
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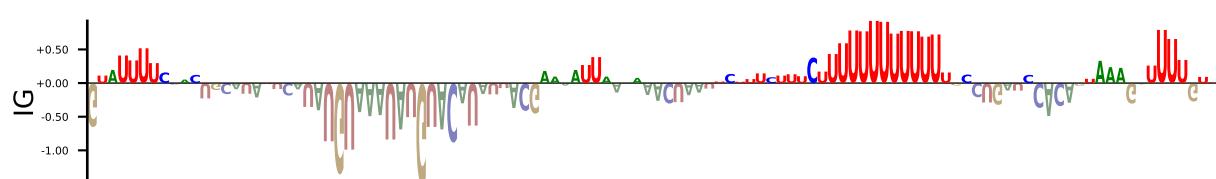
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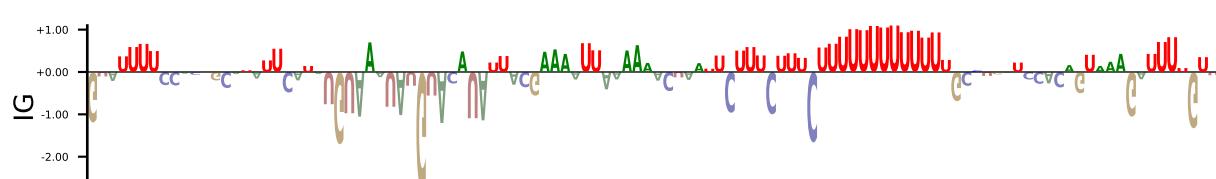
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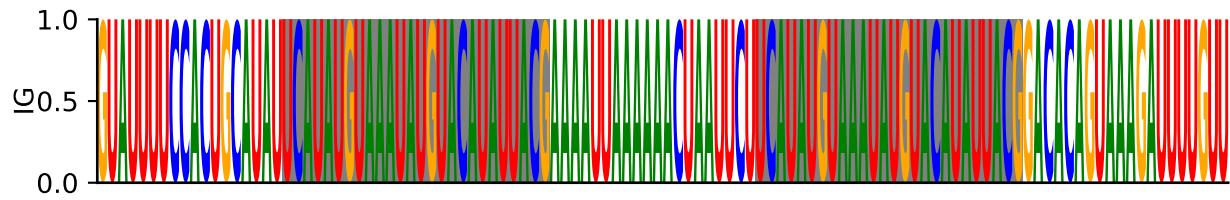
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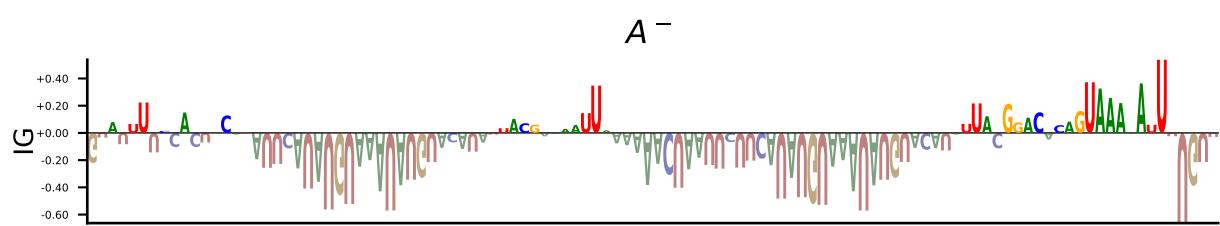
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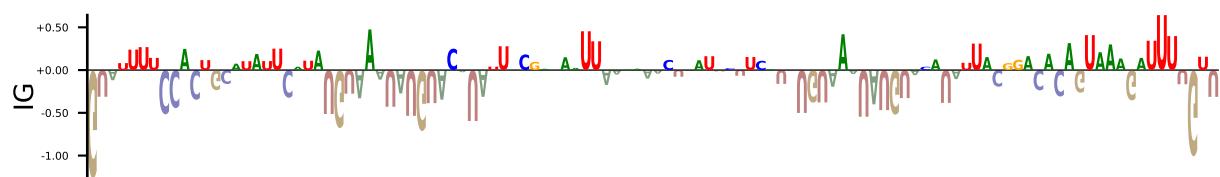
Highlighted motifs



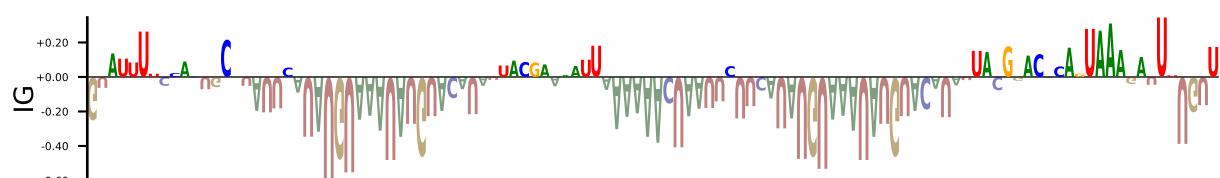
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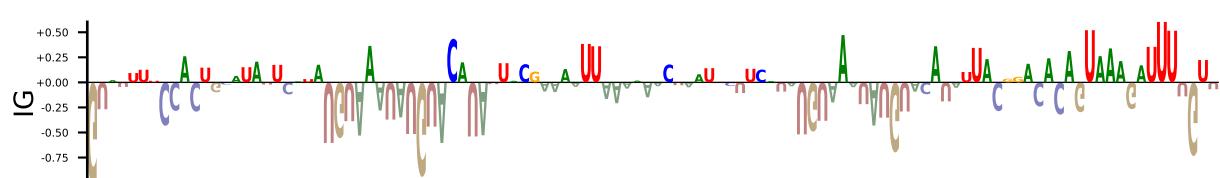
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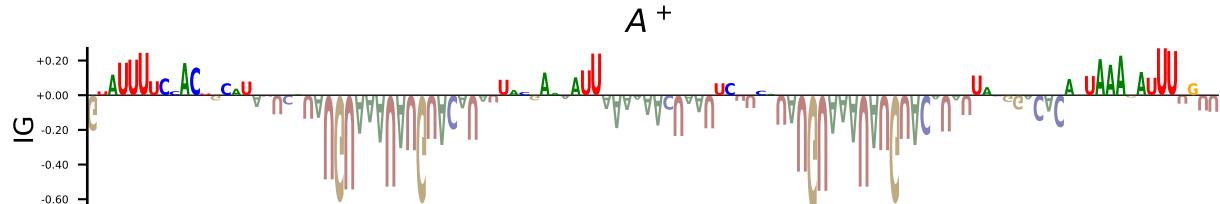
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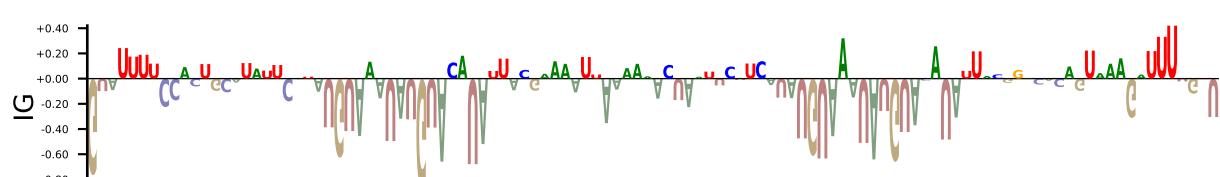
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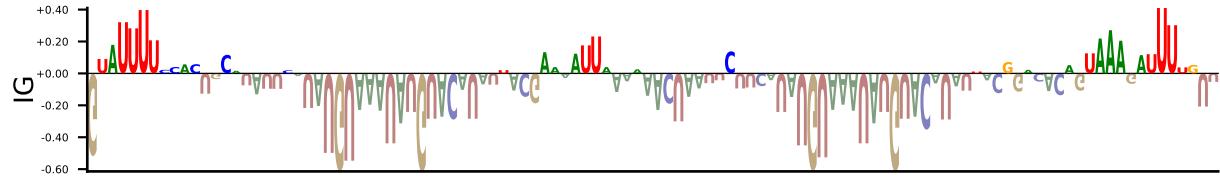
single-CNN



single-RNN



multi-CNN



multi-RNN

