

Protein Kinase Sequence Motifs

Downloaded from https://esbl.nhlbi.nih.gov/Databases/Kinase_Logos/

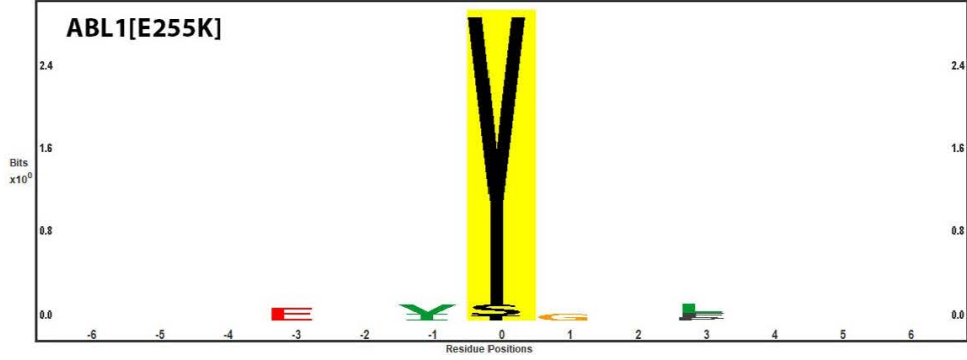
Kinase data curated from Sugiyama et al. (PMID: 31324866). Sequence motifs for each protein kinase showing amino acid preferences flanking the post-translational modified site were identified by PTMLogo. All logos were generated from a minimum of 30 amino acid sequences, using Chi-squared filtering alpha = 0.0001. Exact number of reference sequences used for each kinase can be found at the link above. PTMLogo published by Saethang et al. 2019, PMID: 31318409.

Amino acids are color coded based on their properties. **L, I, M, V, A** - green. **K, R, H** – blue, **Q, N** - purple, **D, E** - red, **F, W, Y, P** - dark grey, **S, T** - light grey, **C** - pink, **G** - orange.

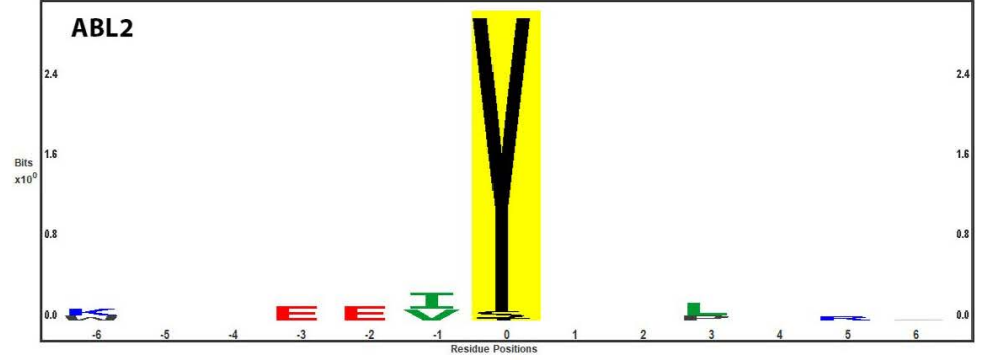
B represents the N-terminus and **J** represents the C-terminus.

Created by Brian Poll, Kirby Leo, and Mark A. Knepper in the Epithelial Systems Biology Laboratory at the National Heart, Lung and Blood Institute as part of its Kidney Systems Biology Project. Please contact Mark Knepper with any comments or questions.

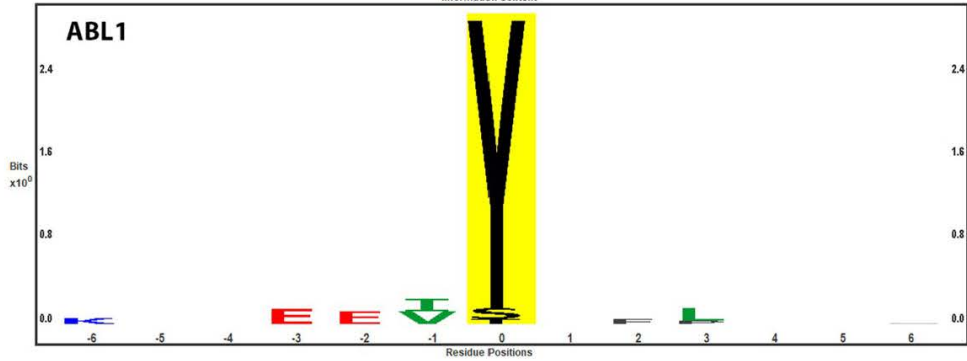
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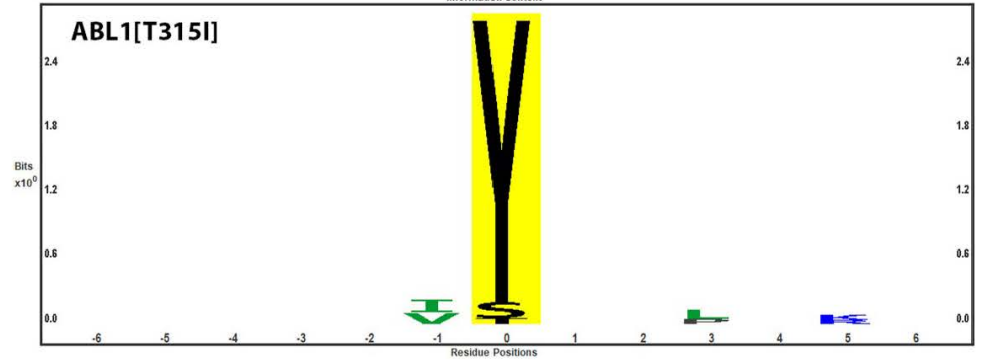
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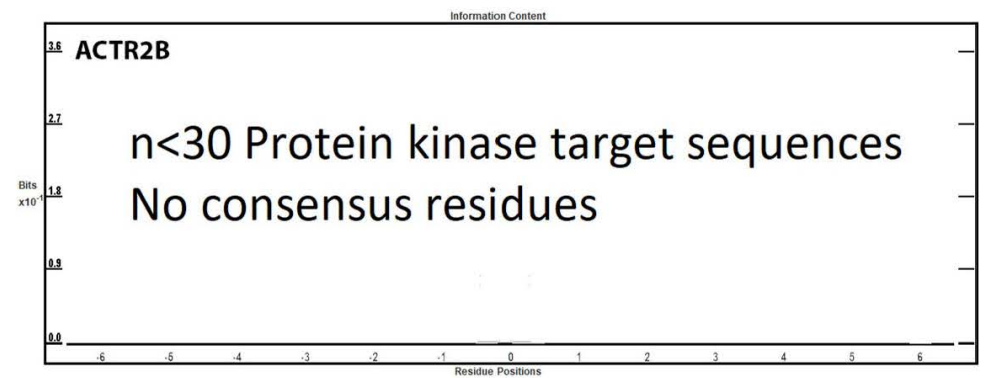
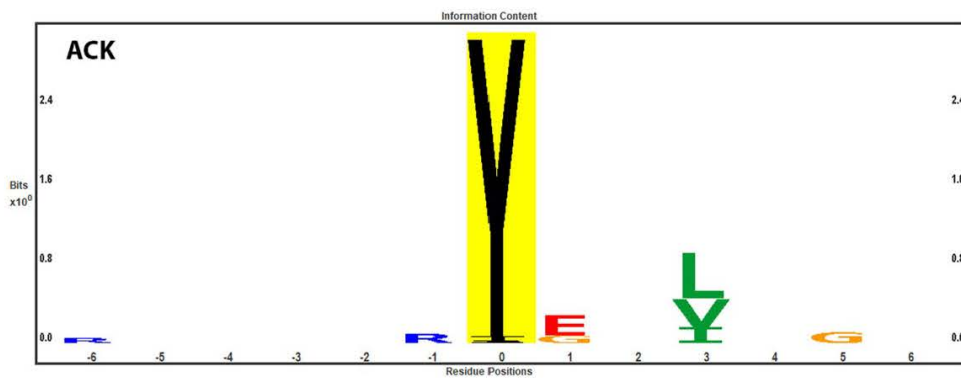
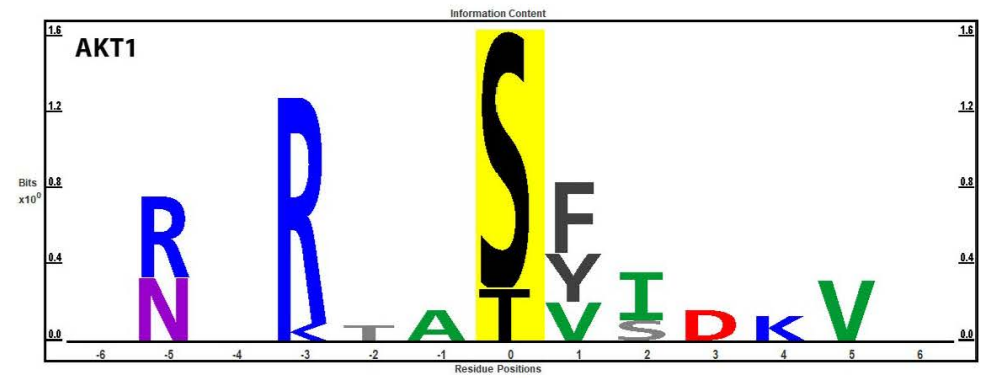
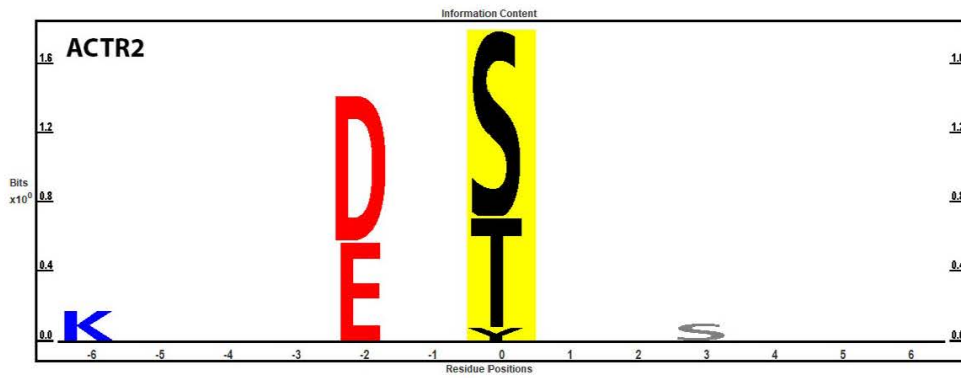


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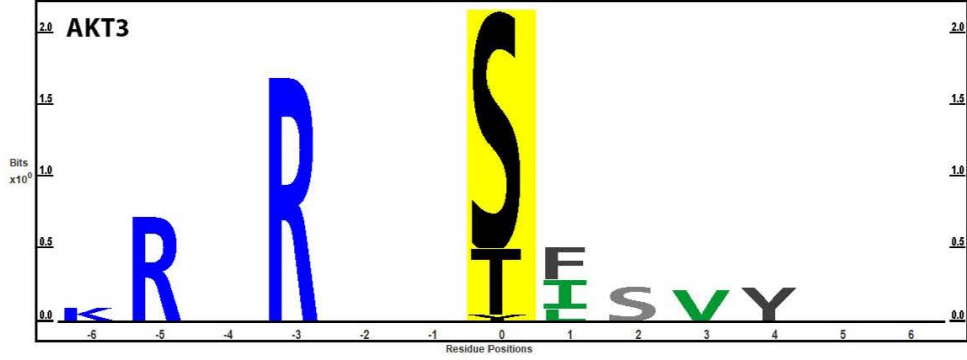


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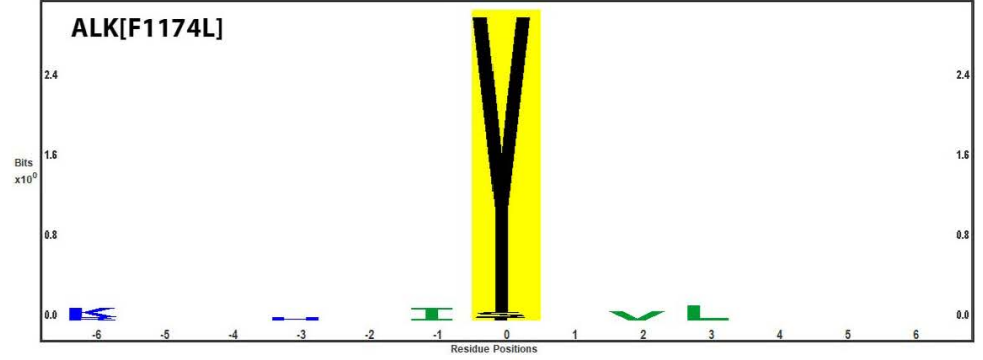




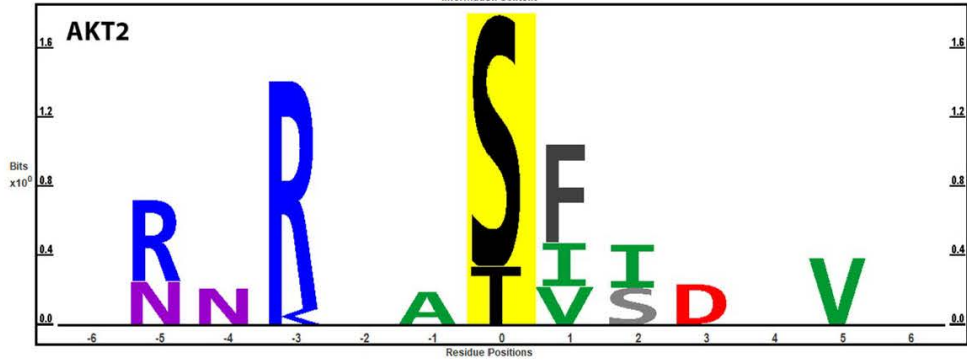
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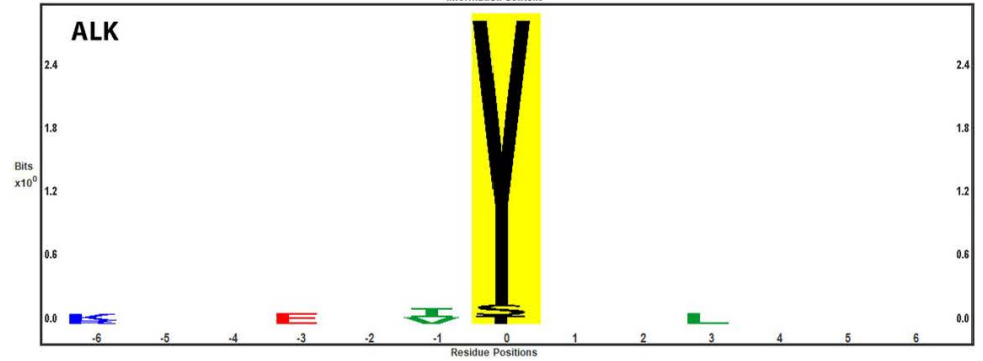
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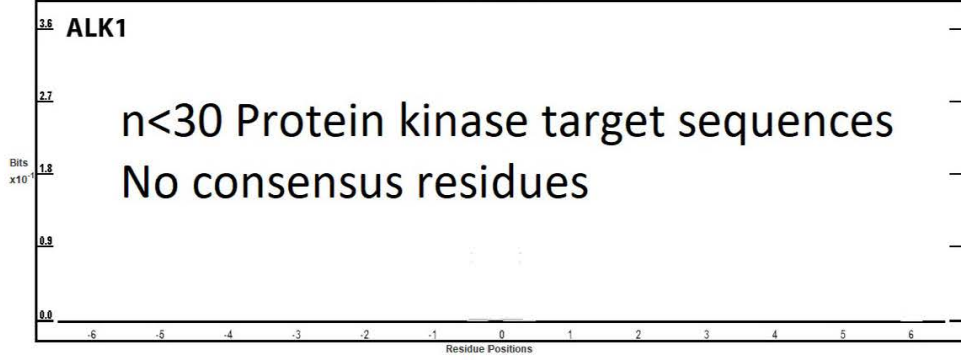
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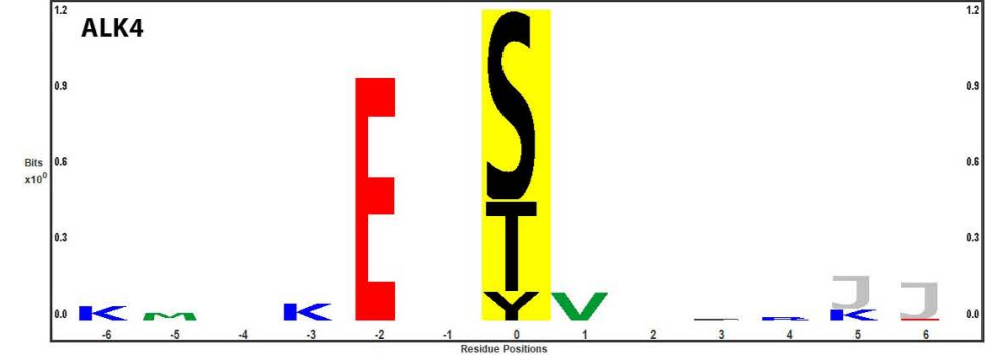
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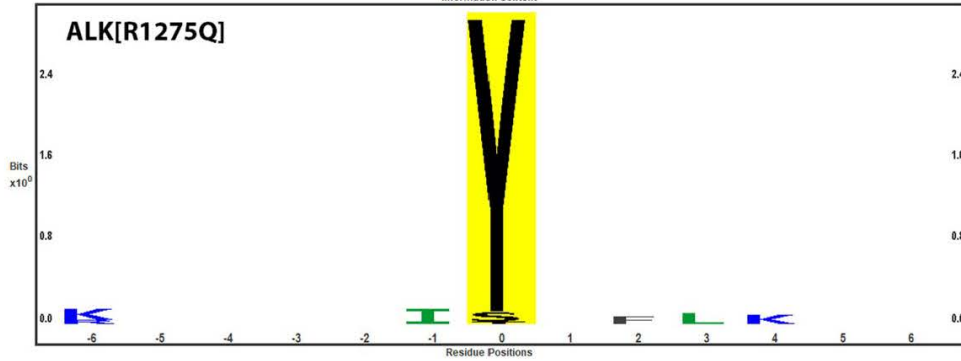
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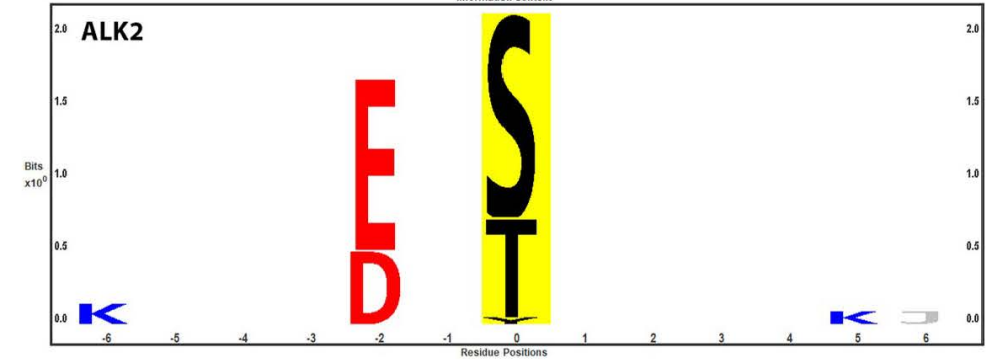
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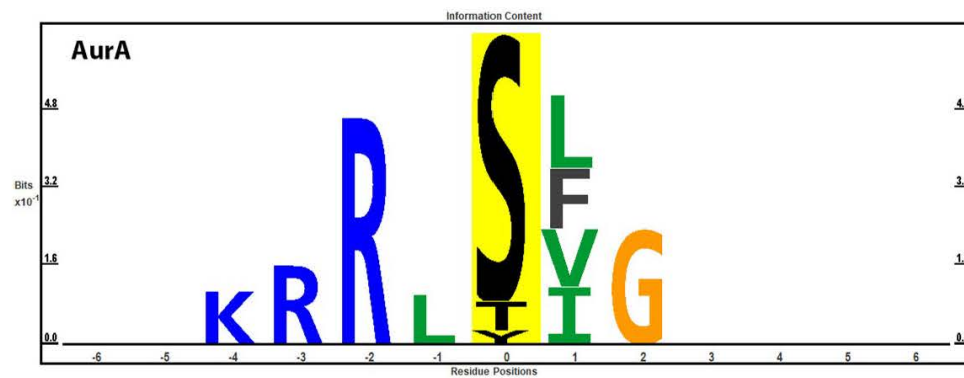
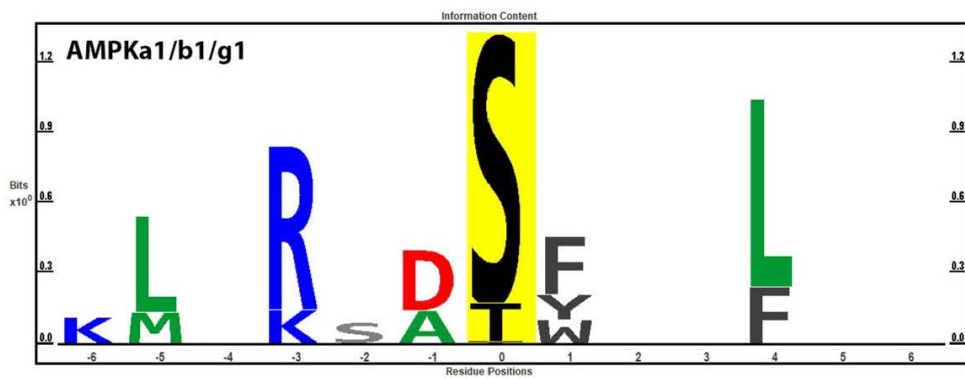
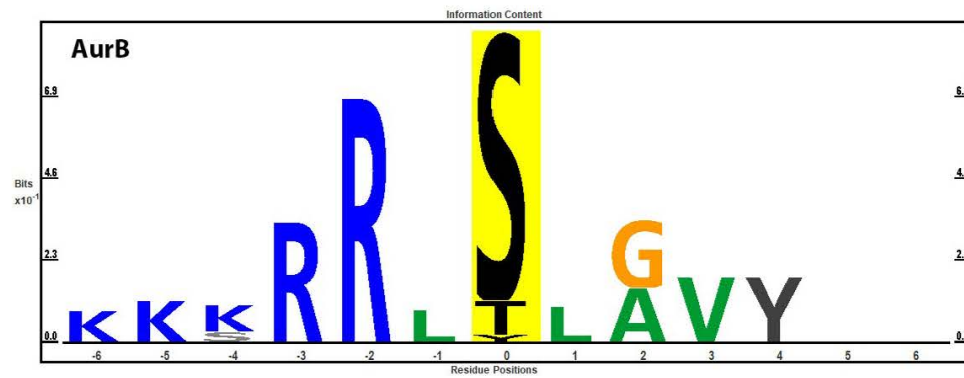
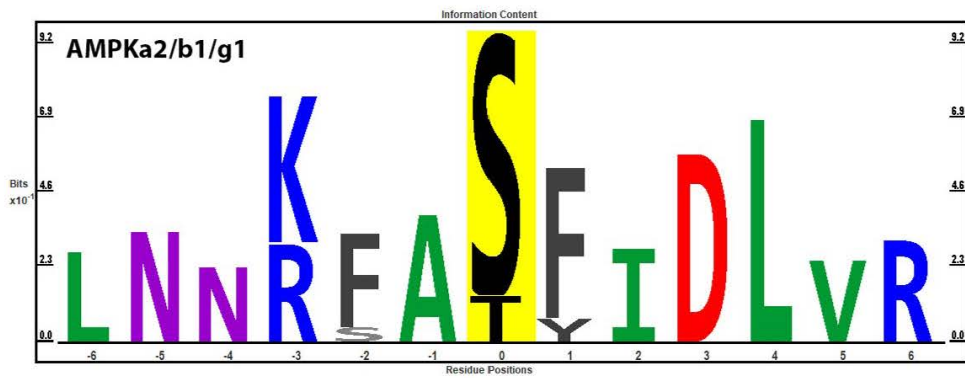


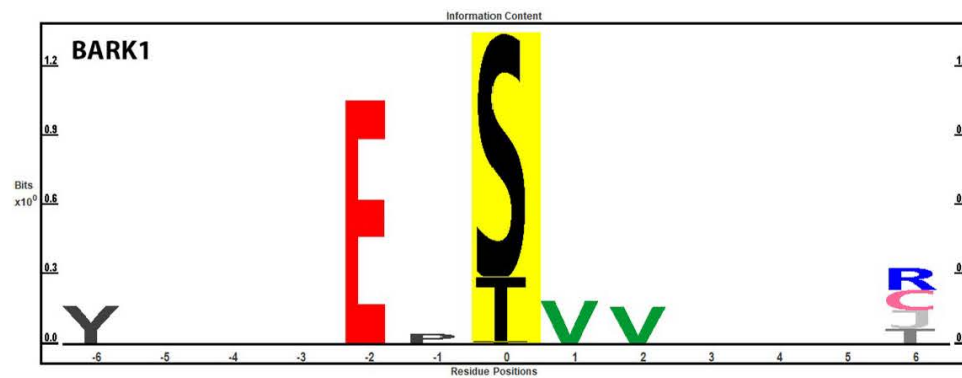
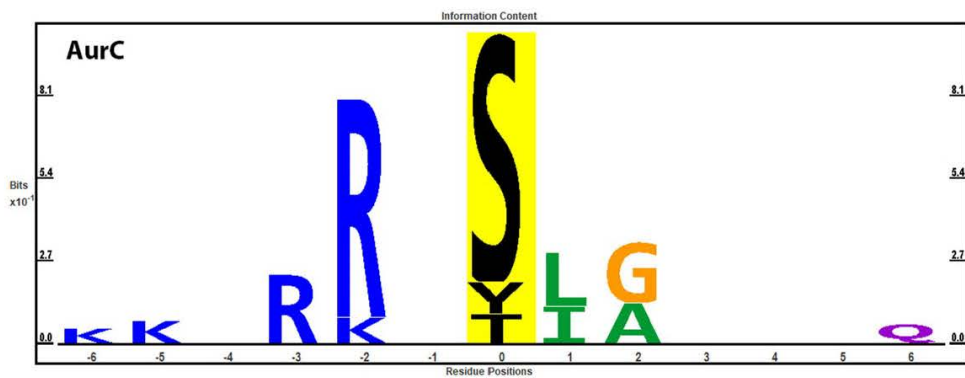
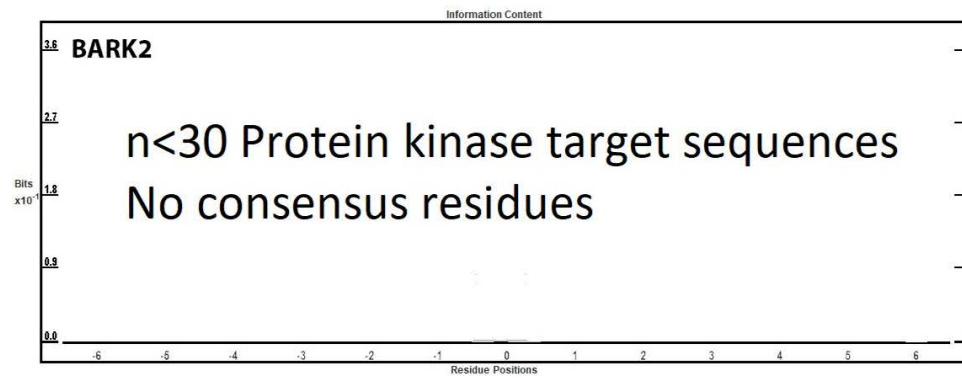
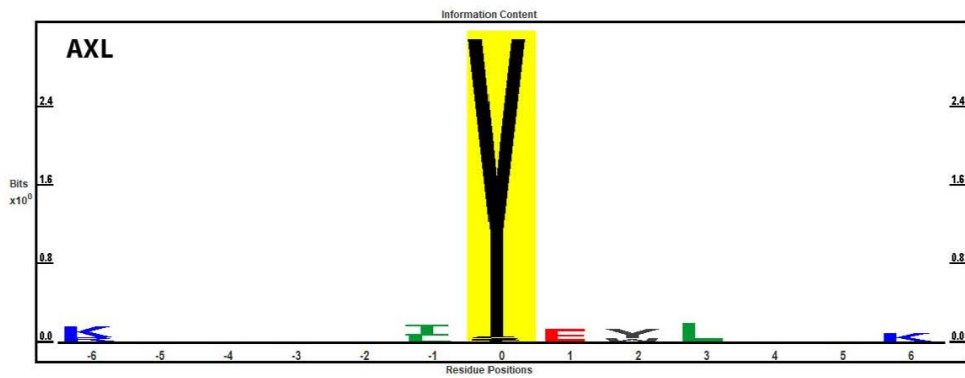
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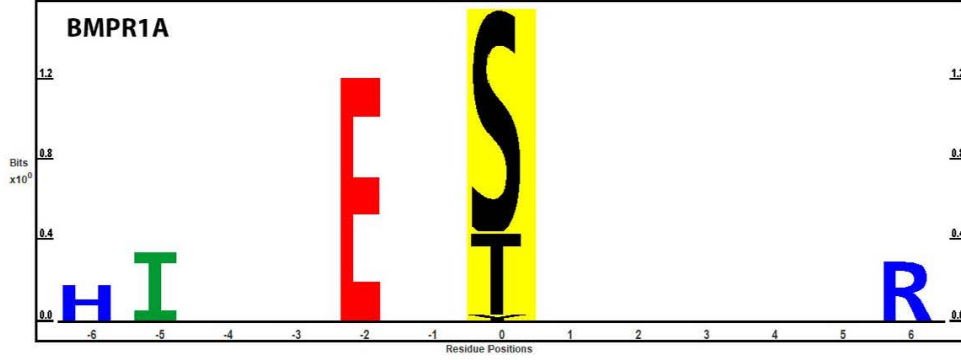
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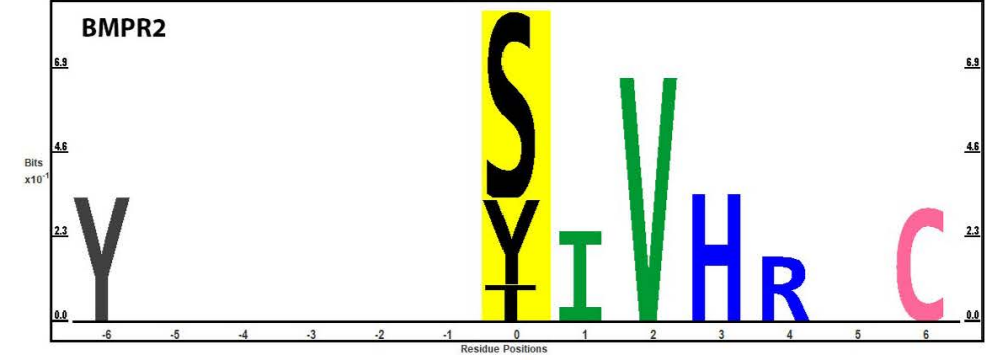




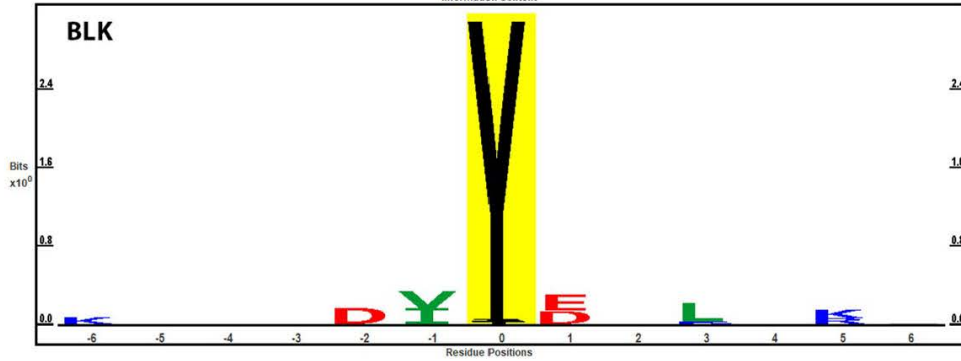
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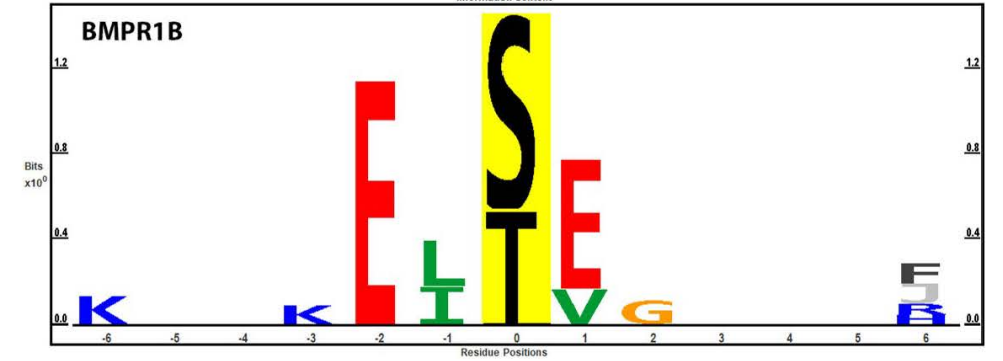
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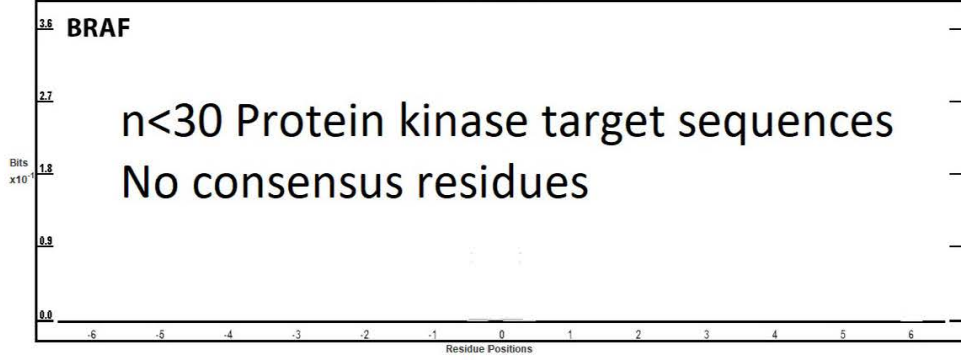
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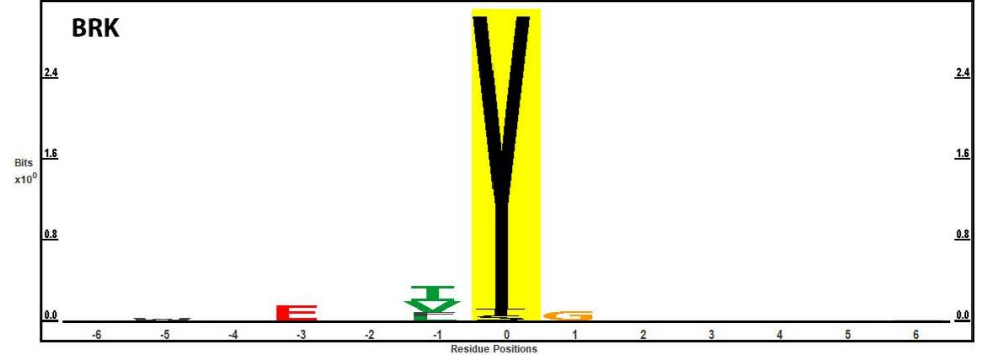
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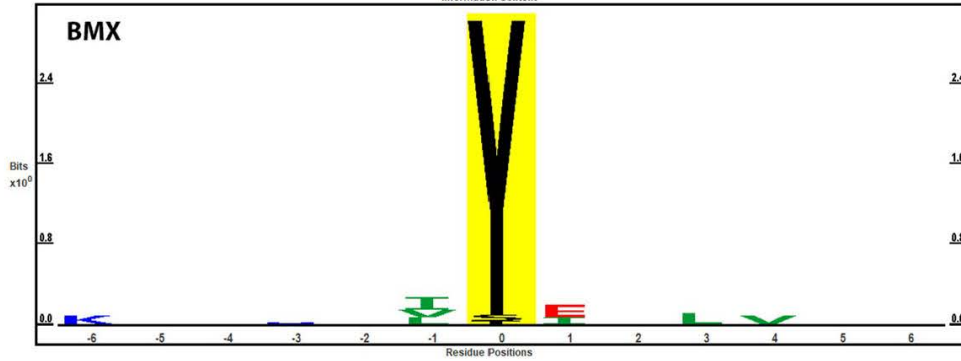
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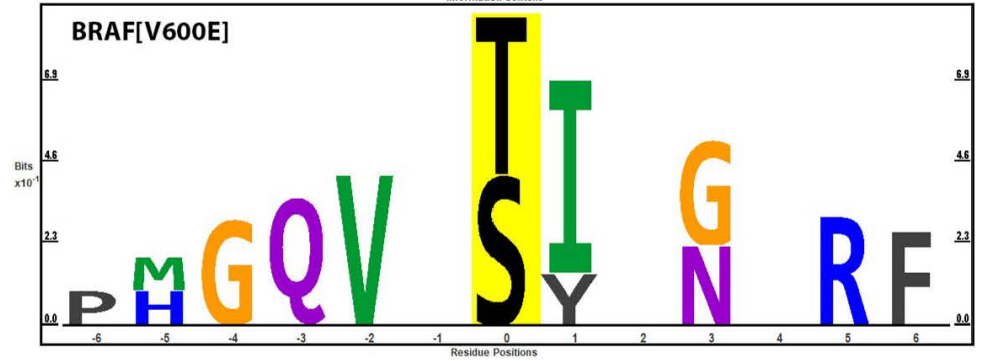
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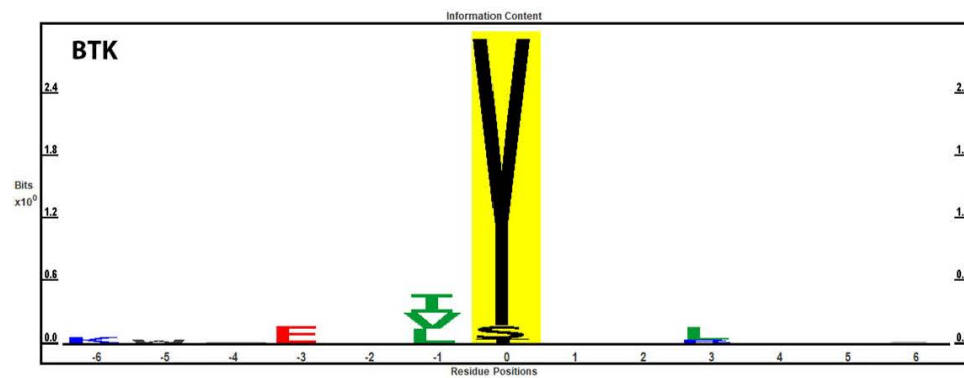
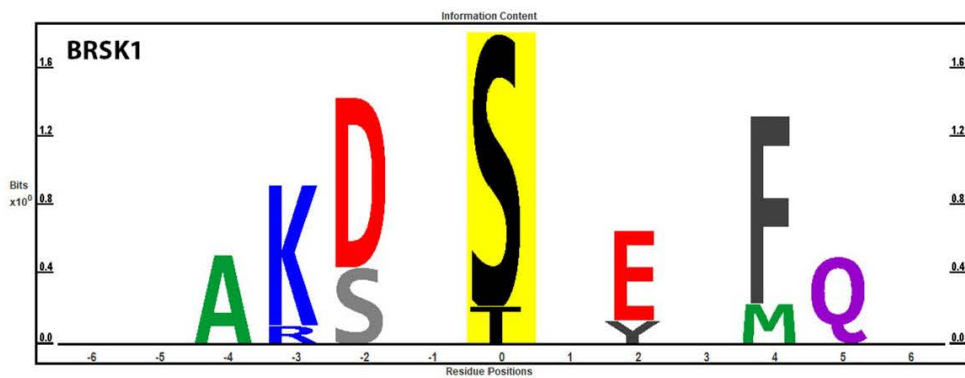
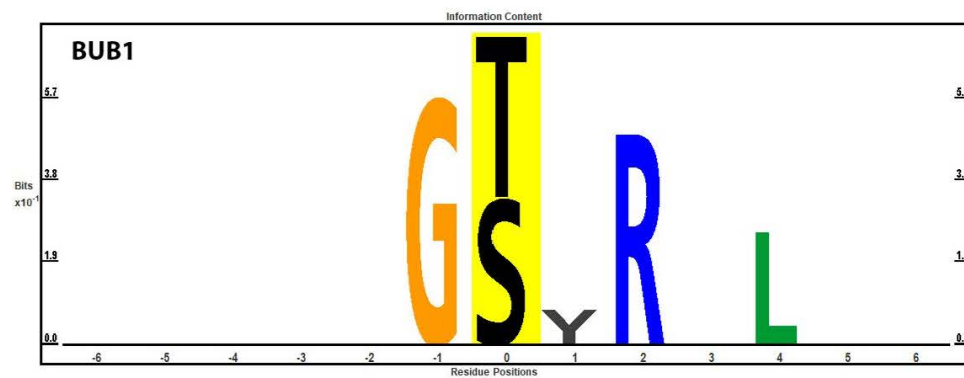
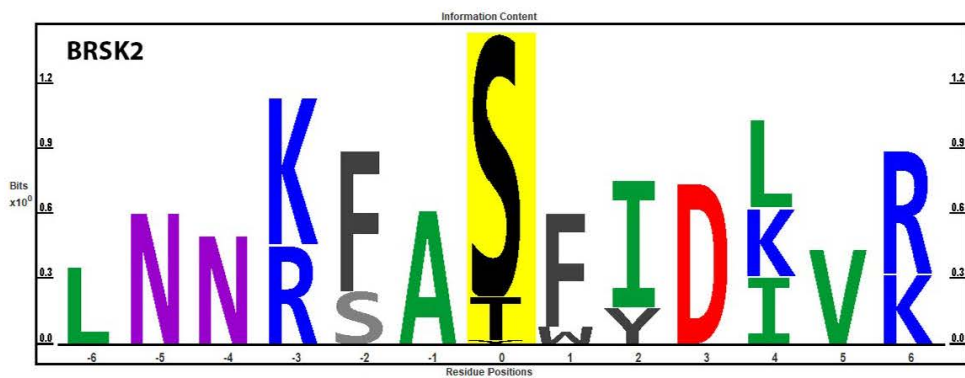


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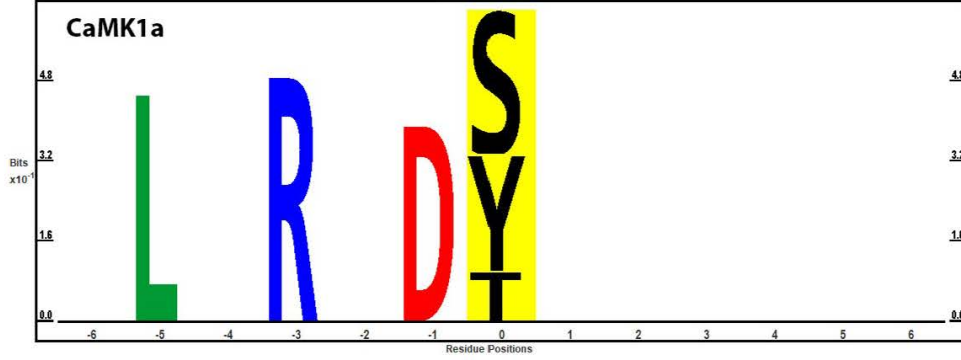


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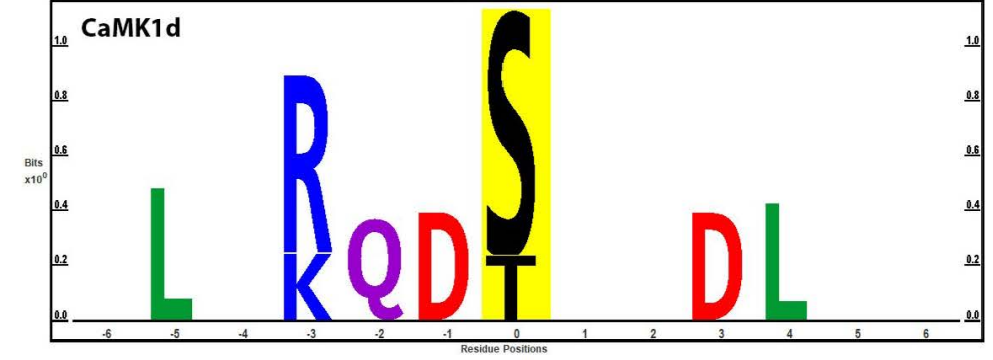




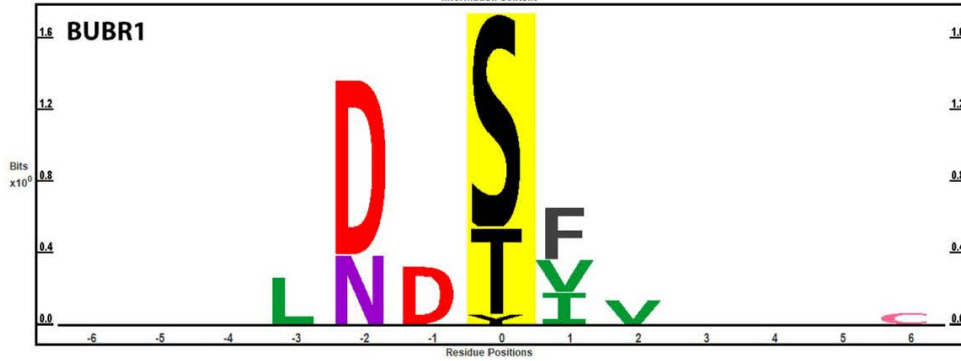
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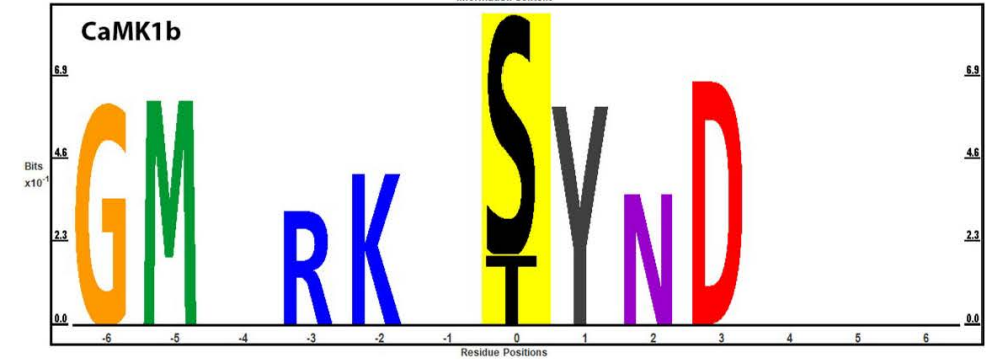
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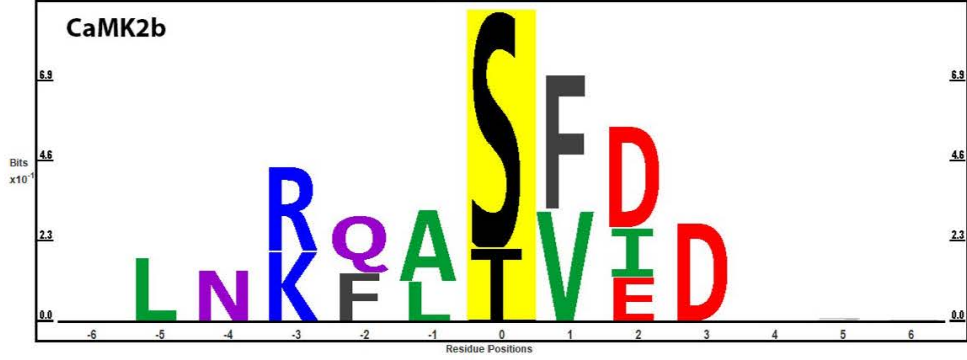
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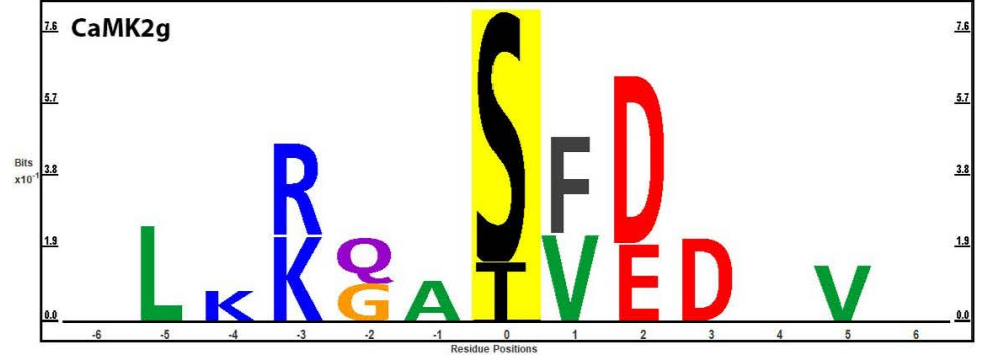
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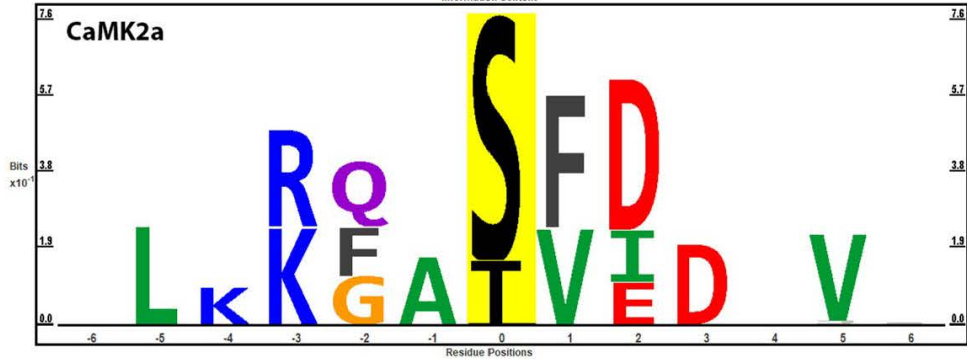
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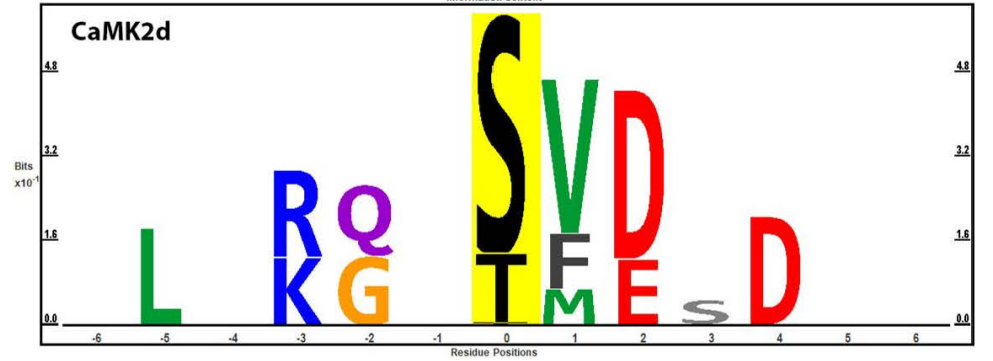
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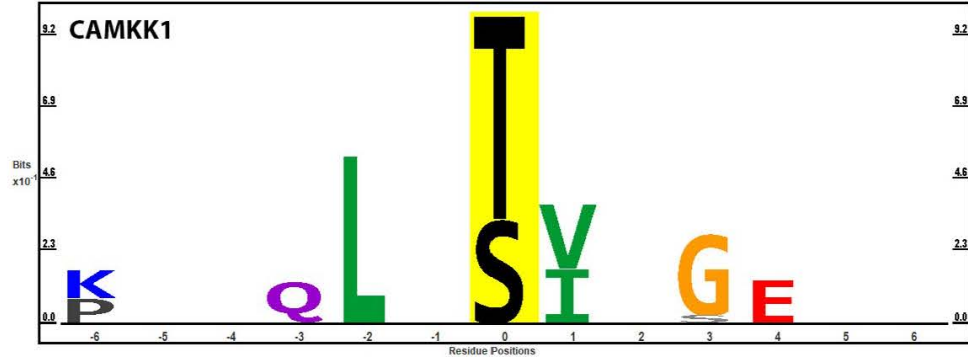
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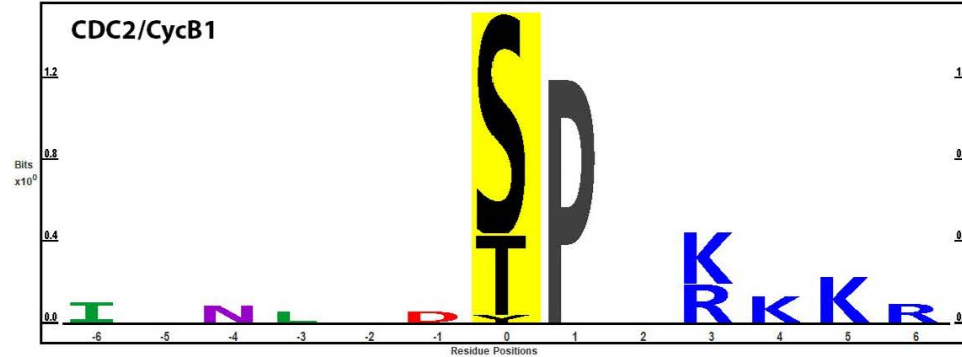
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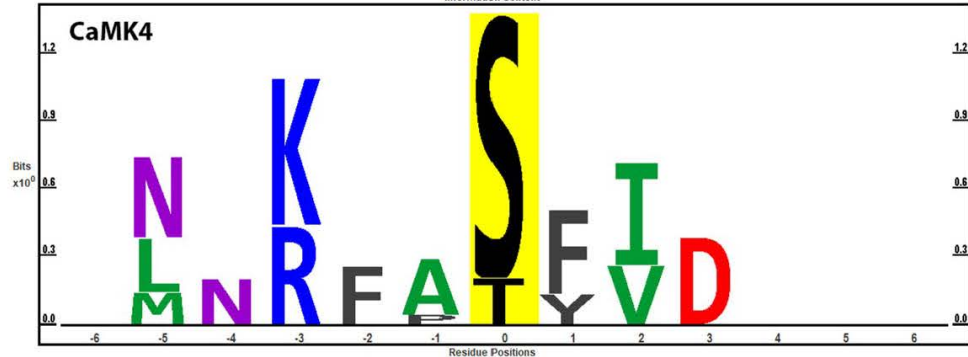
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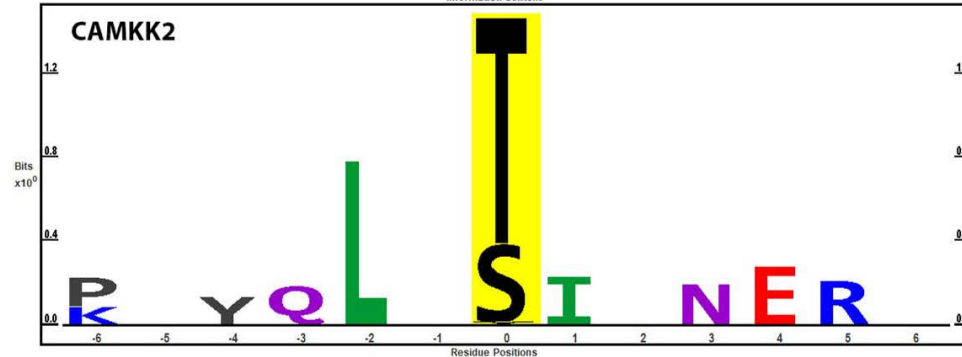
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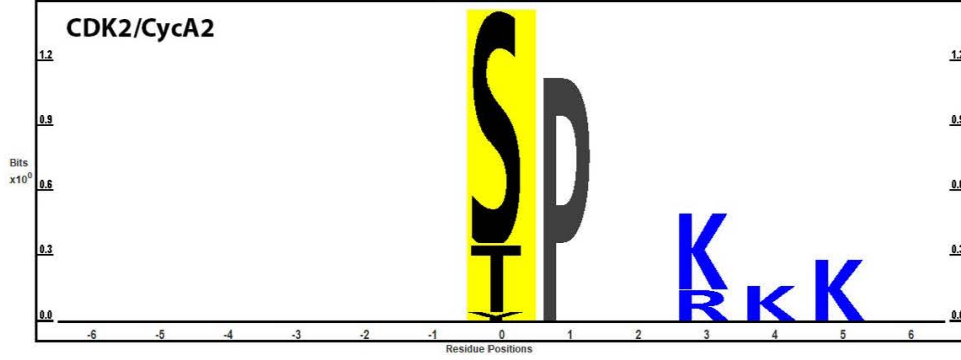
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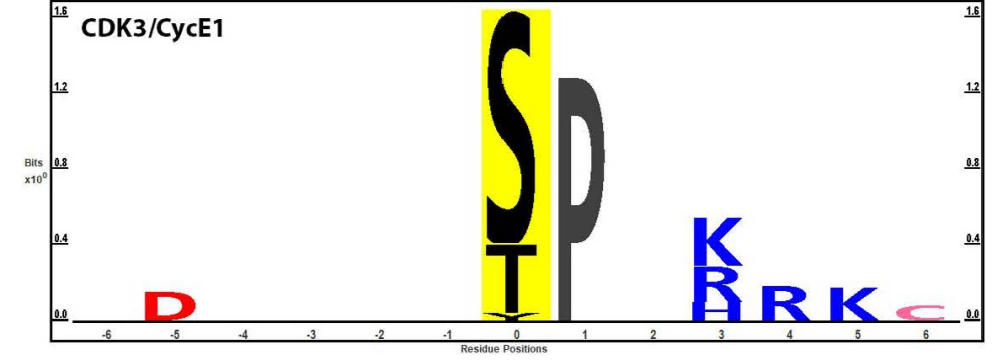
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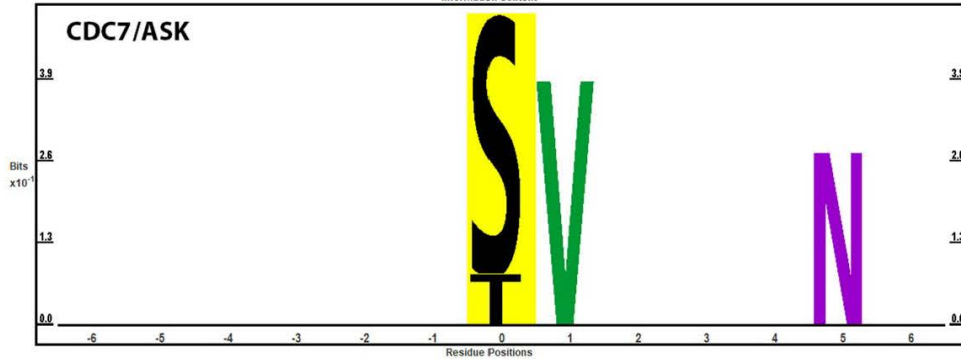
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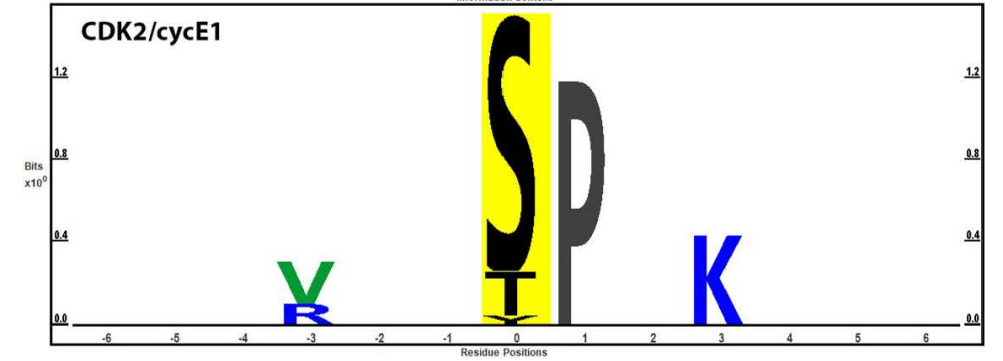
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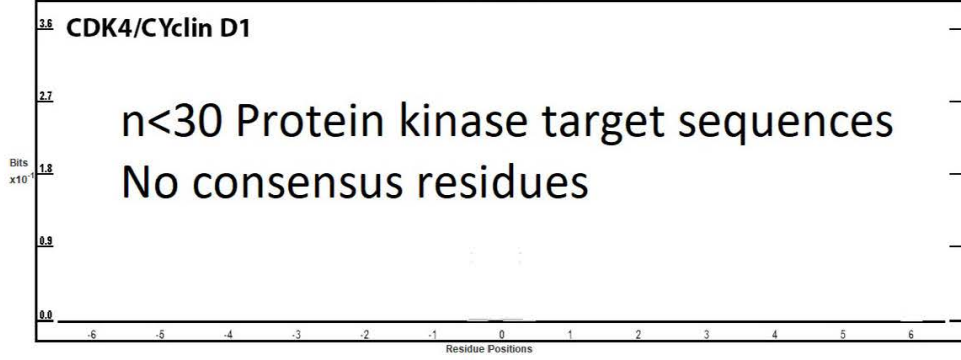
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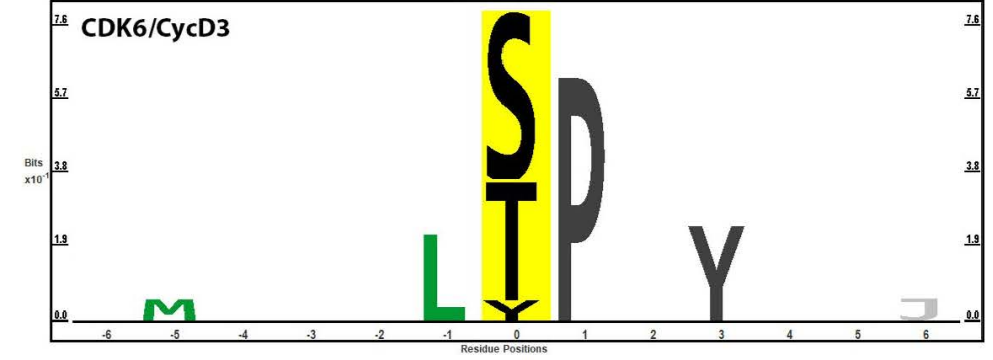
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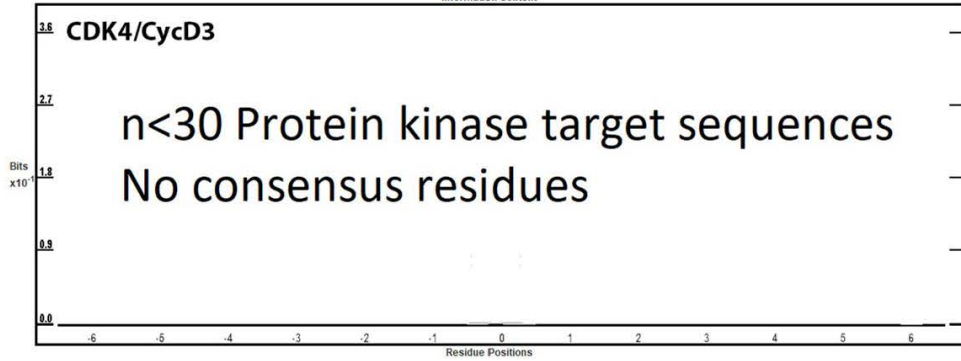
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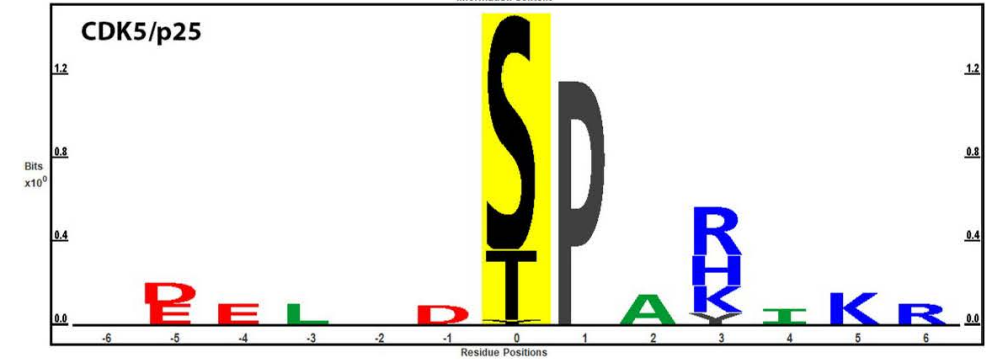
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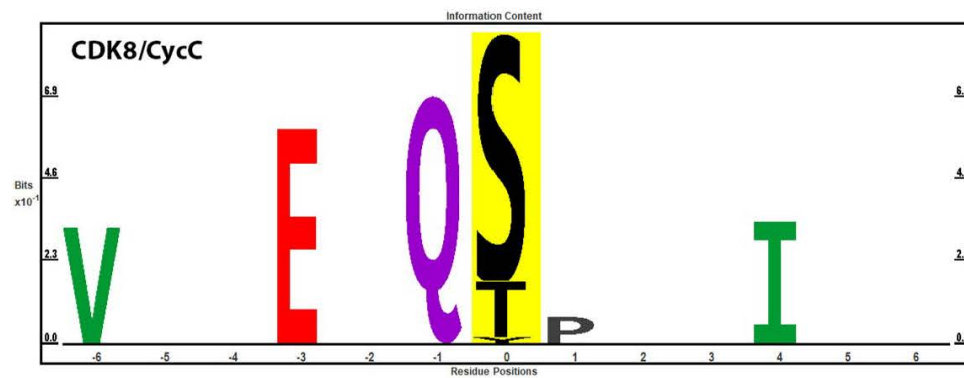
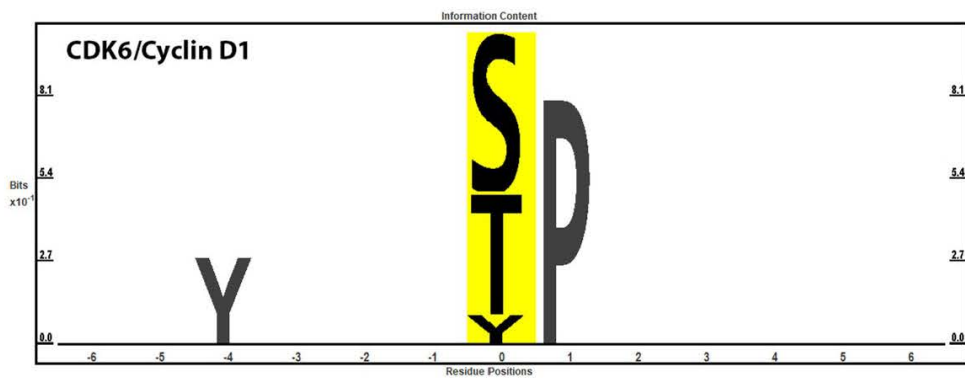
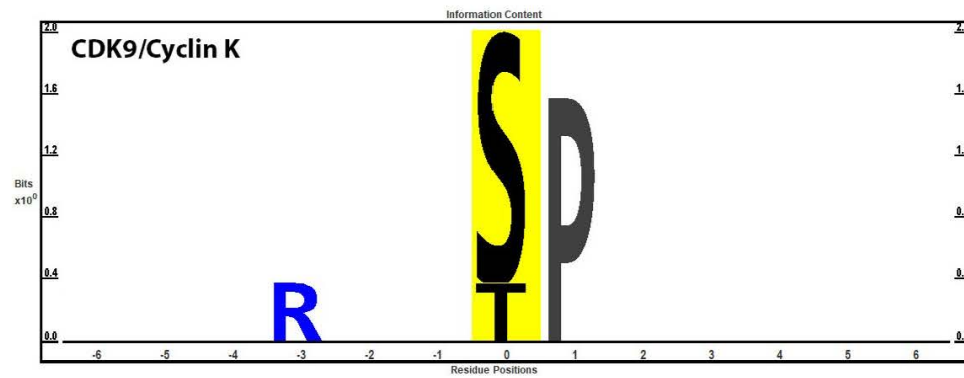
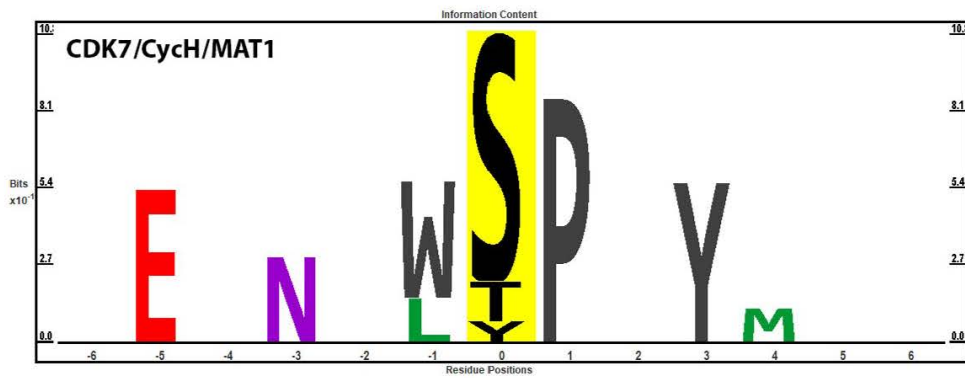


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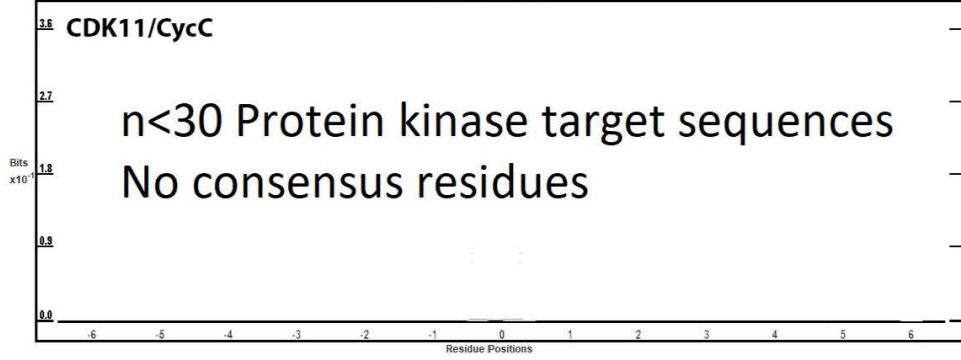


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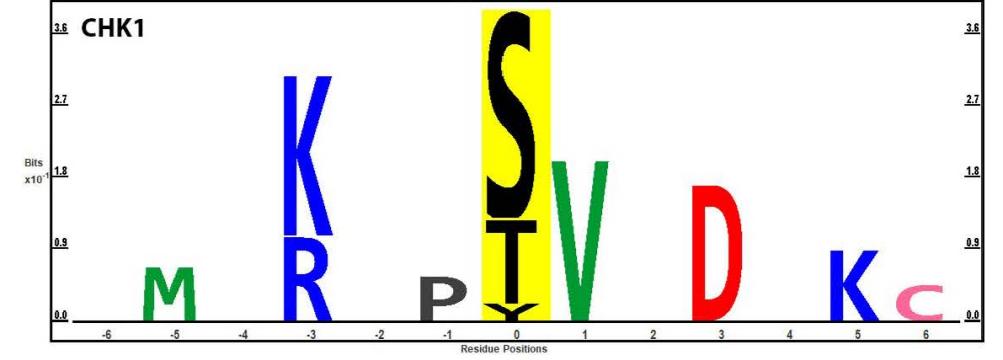




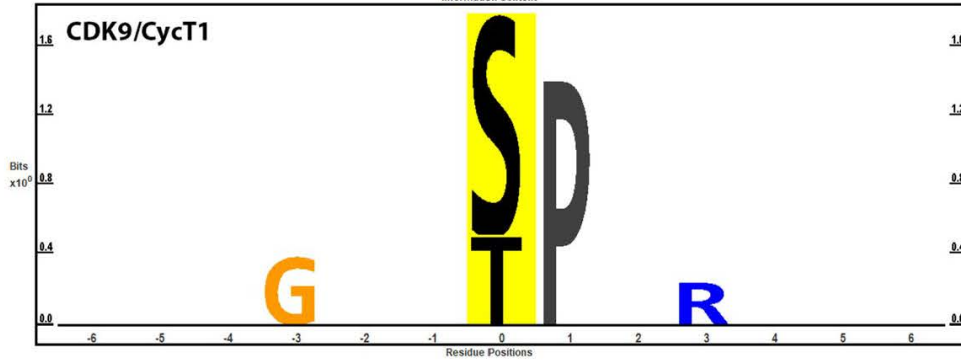
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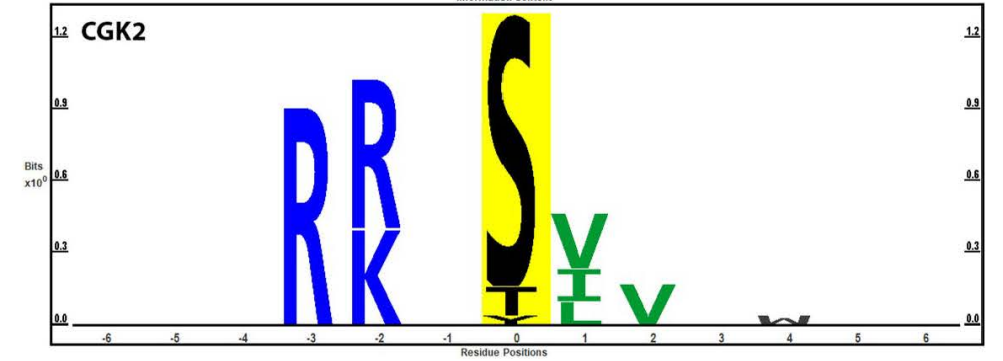
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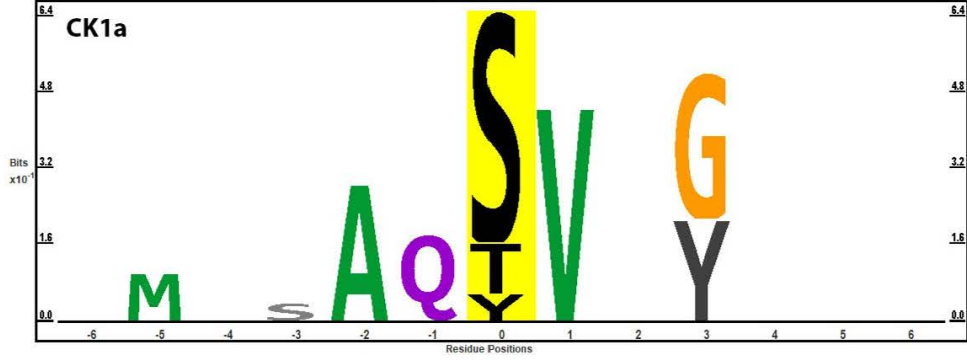
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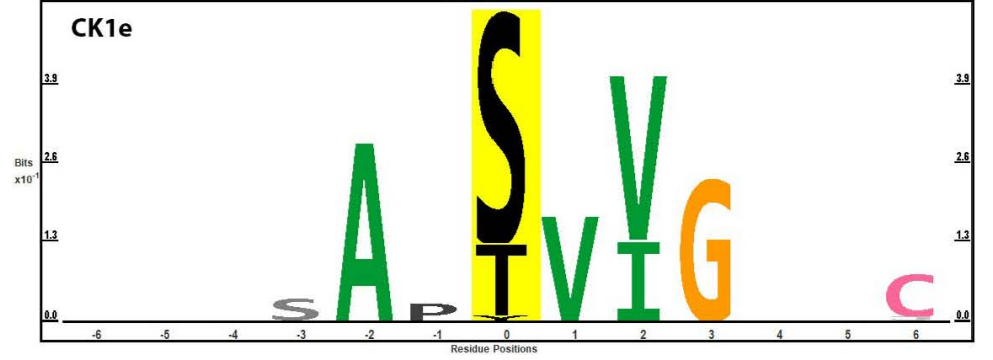
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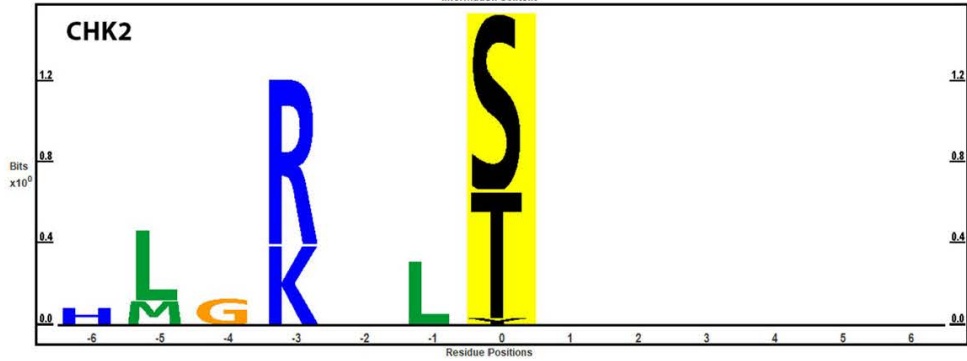
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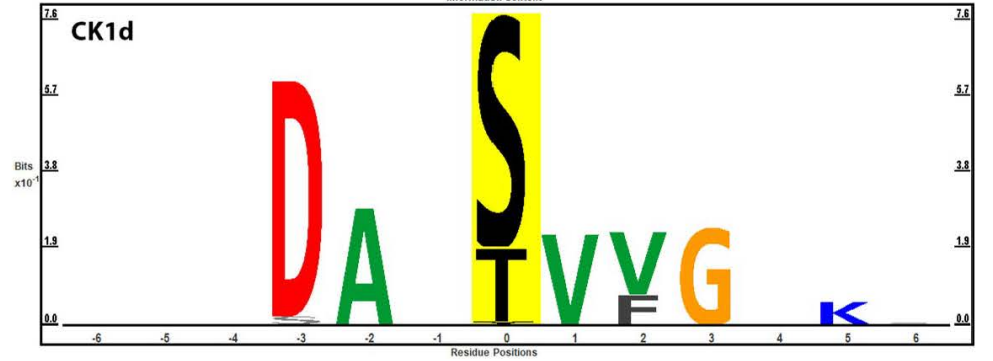
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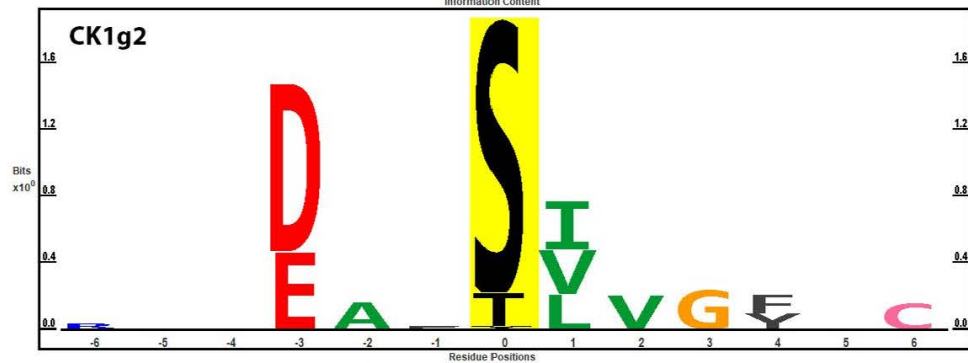
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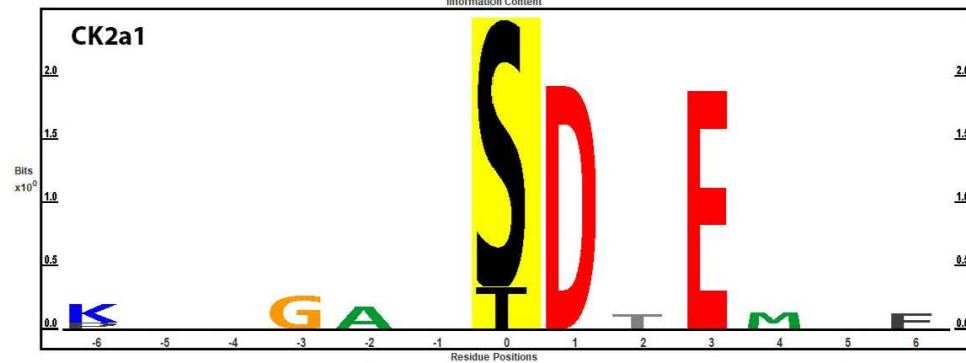
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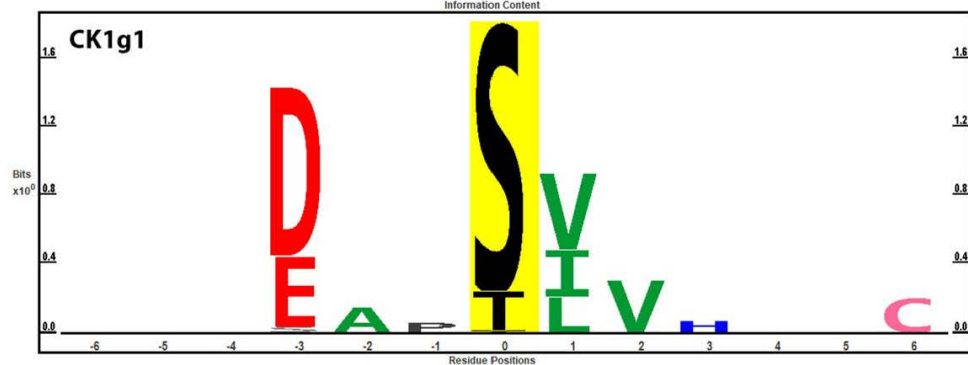
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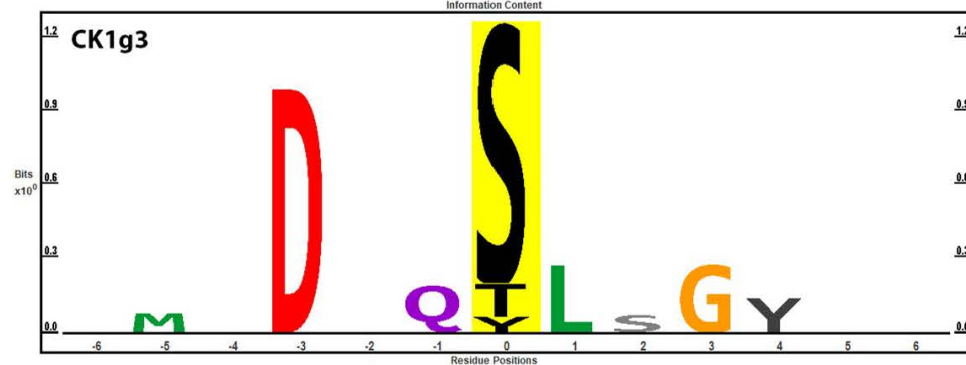
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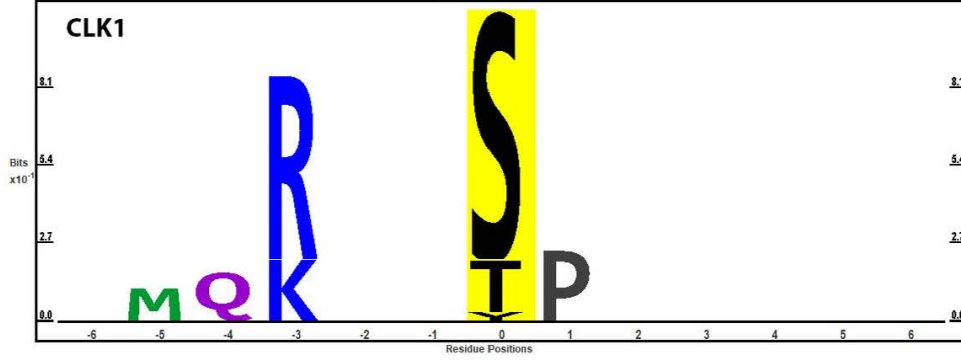
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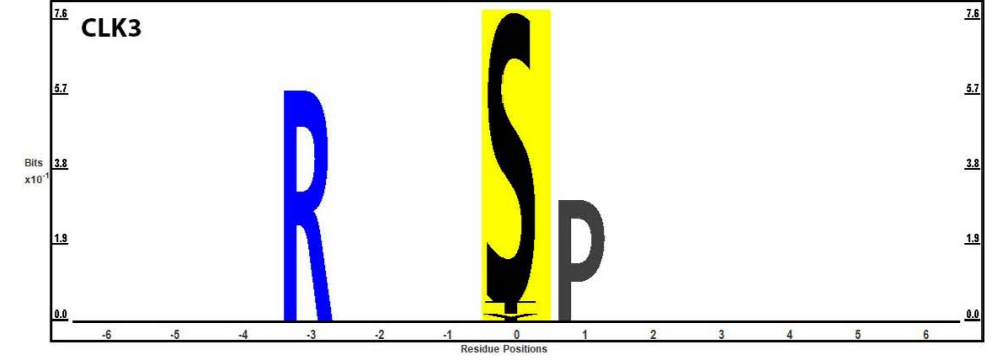
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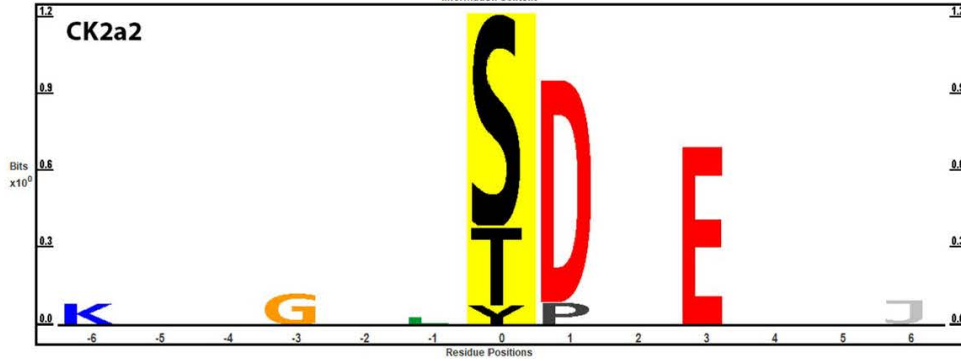
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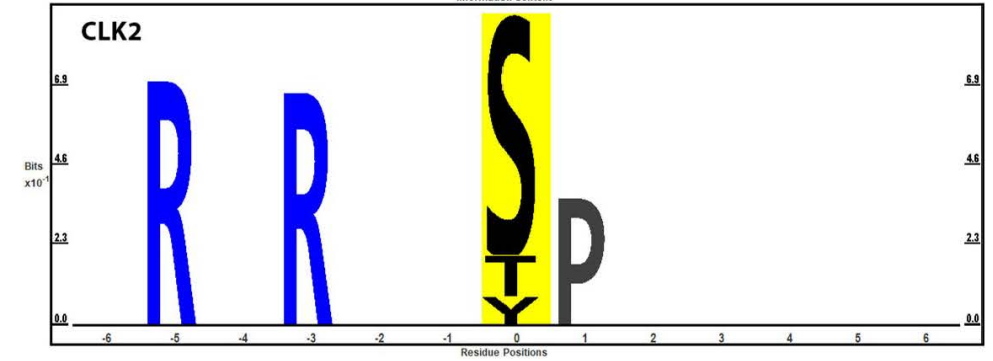
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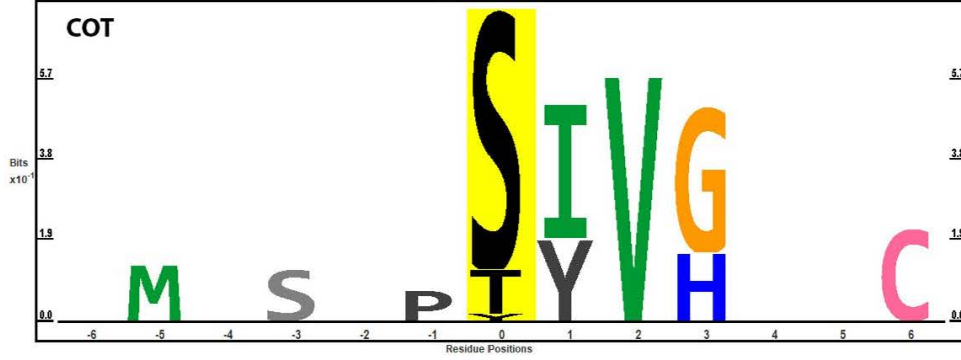
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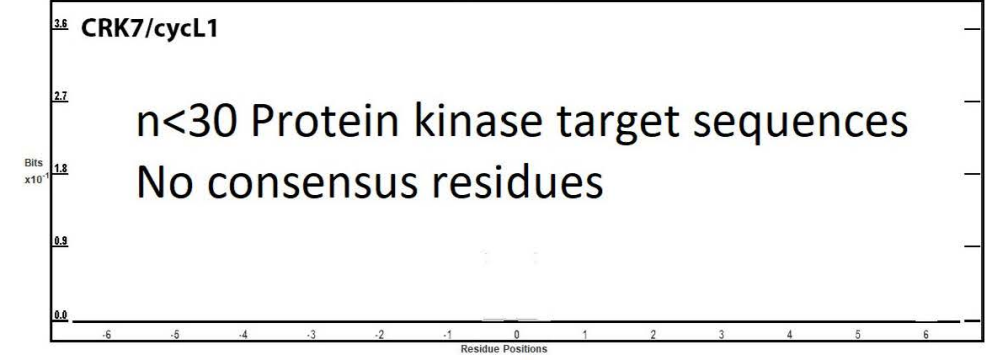
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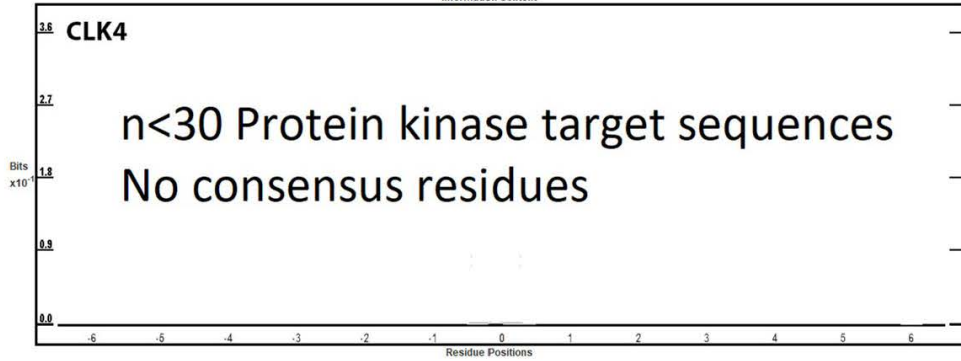
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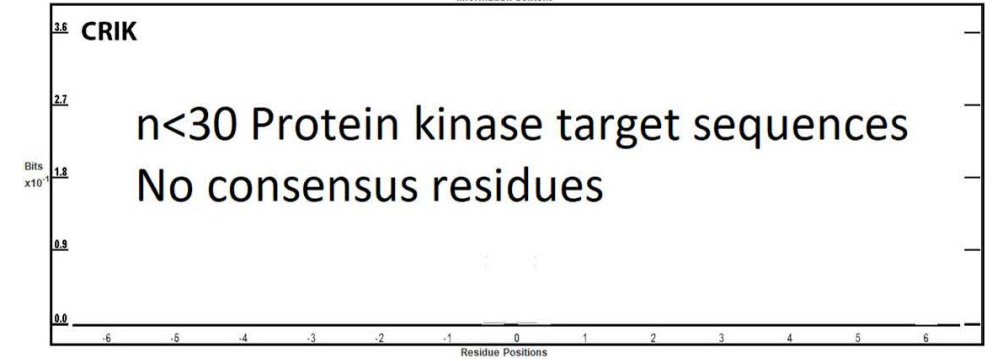
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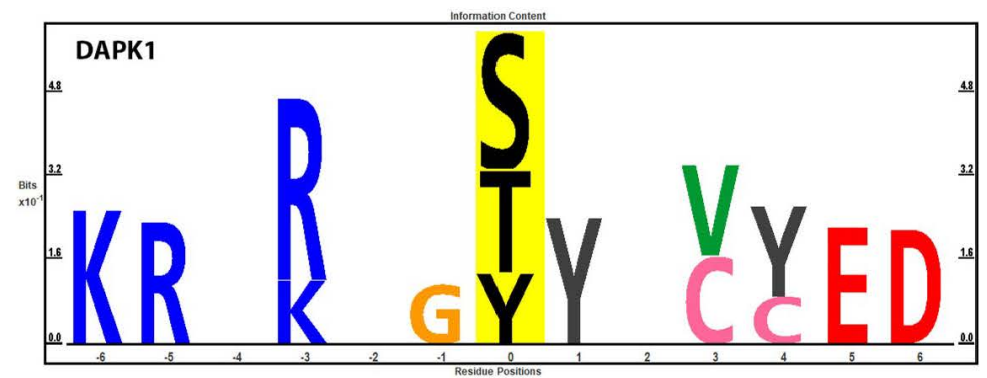
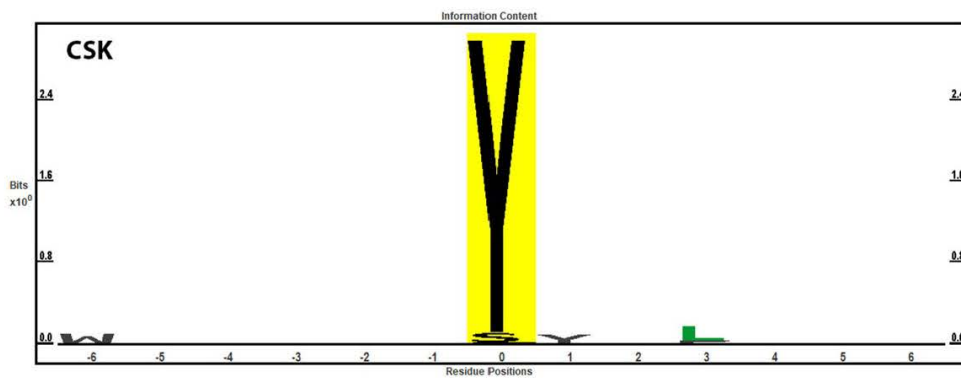
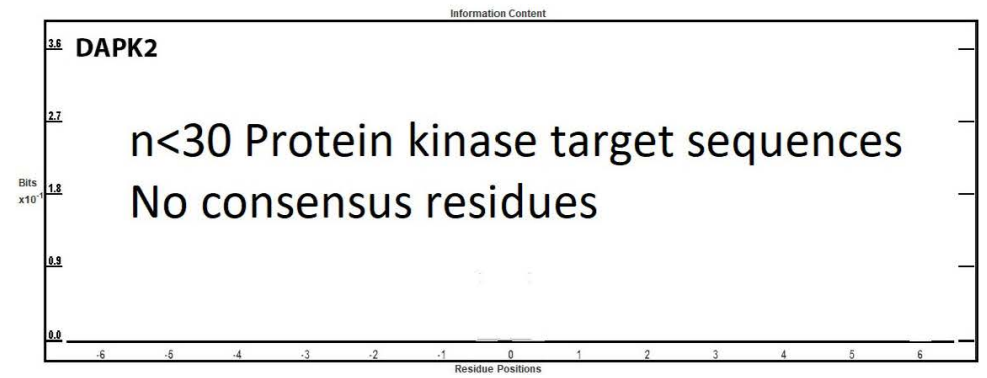
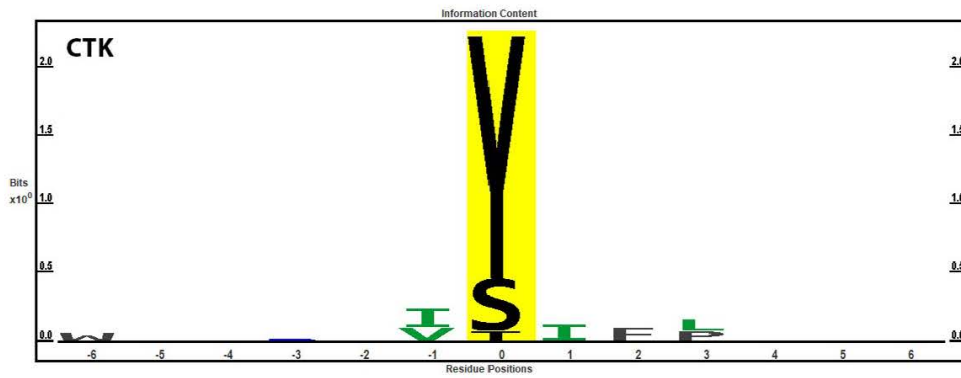


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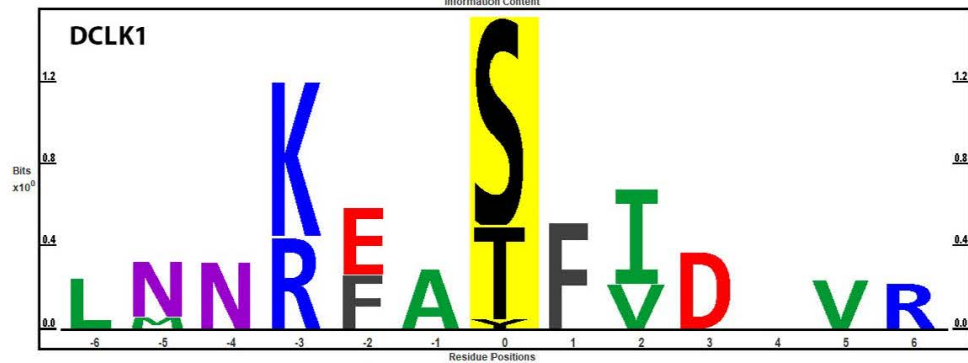


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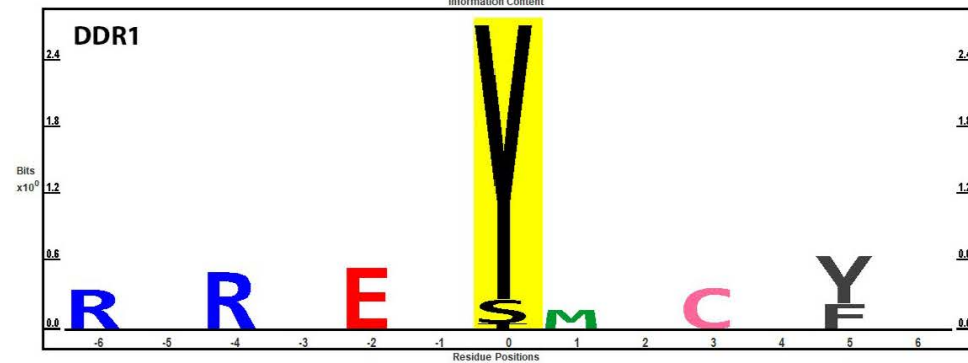




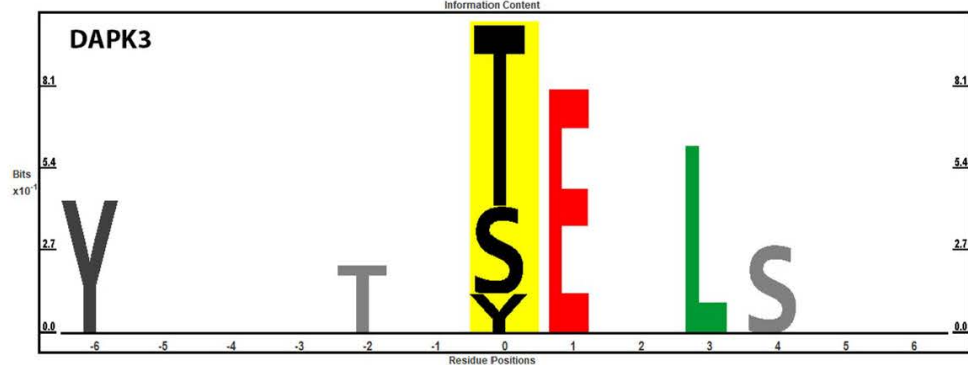
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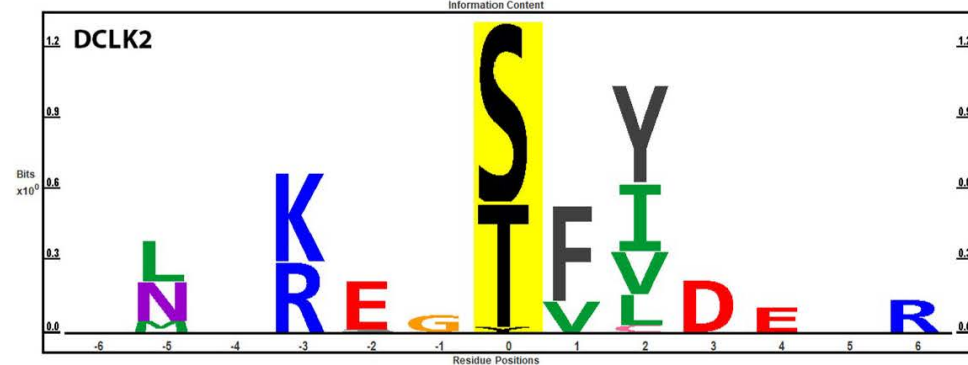
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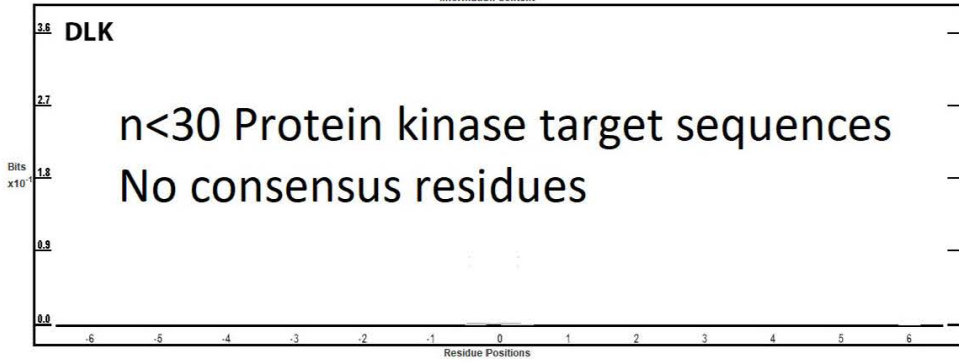
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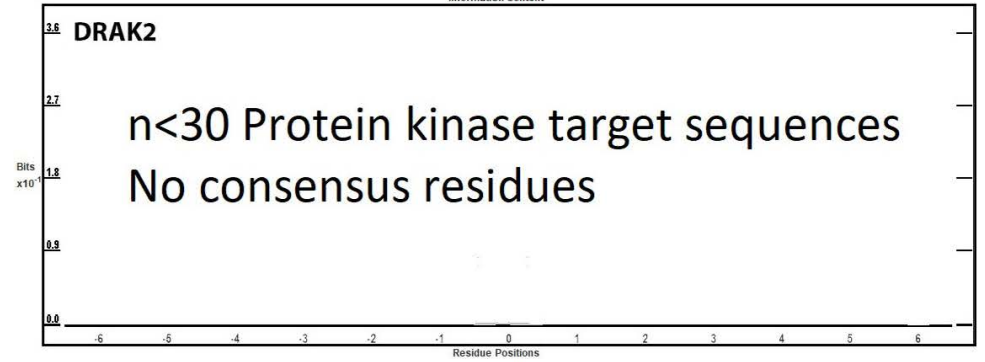
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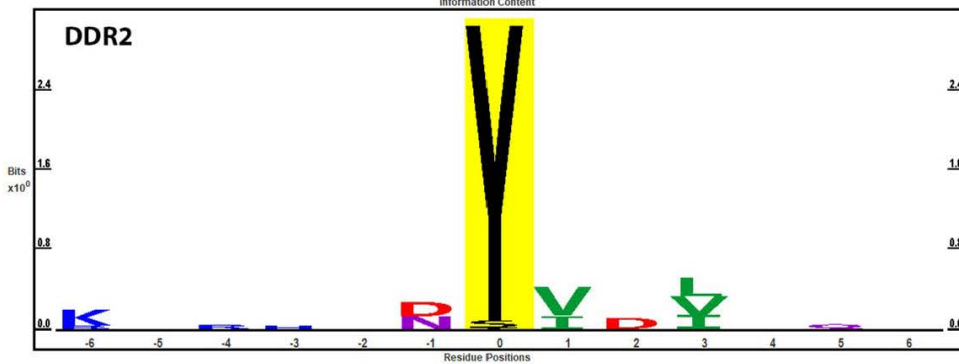
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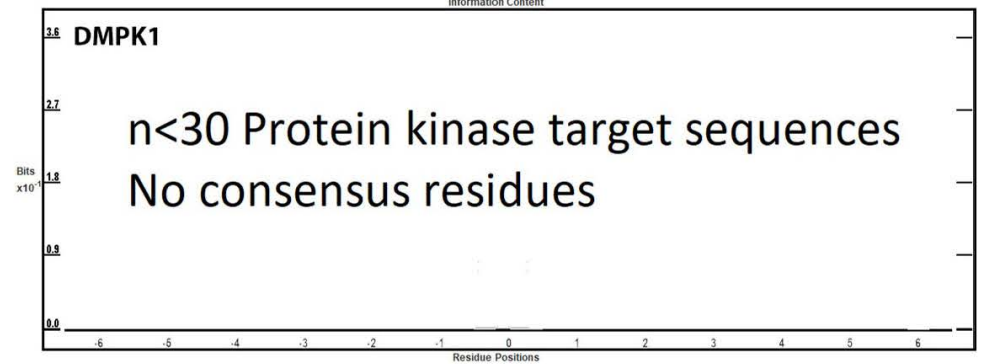
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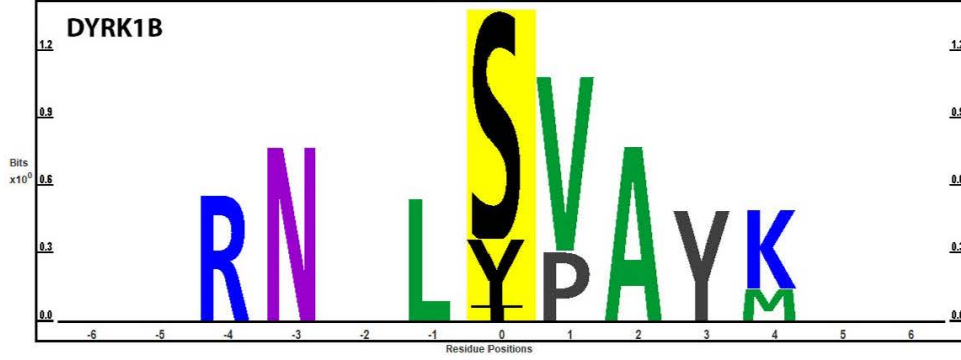
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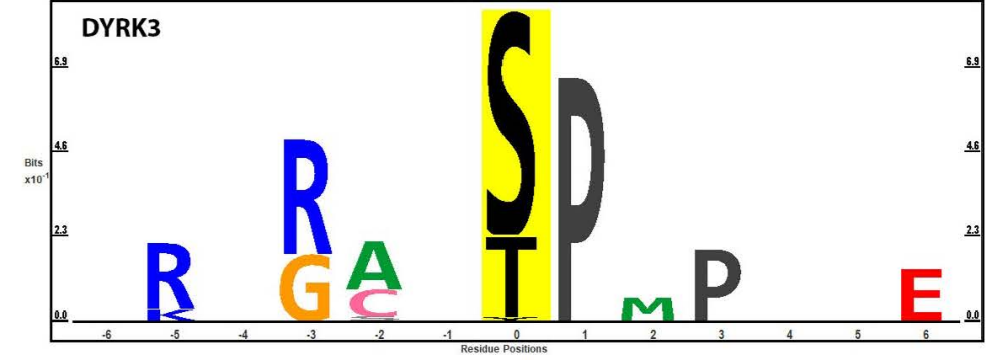
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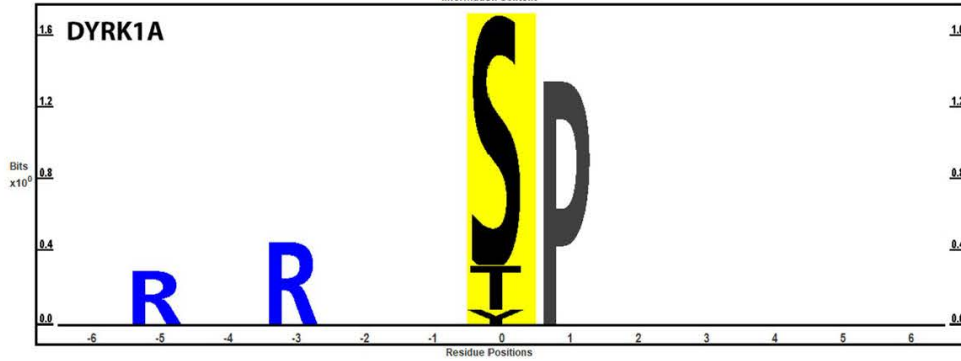
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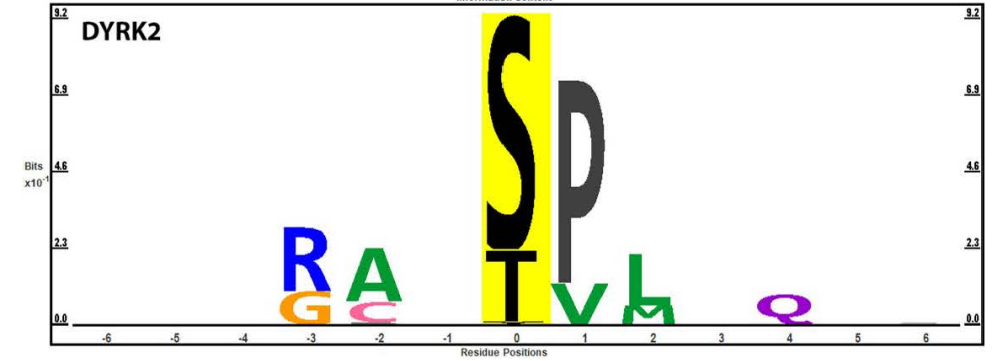
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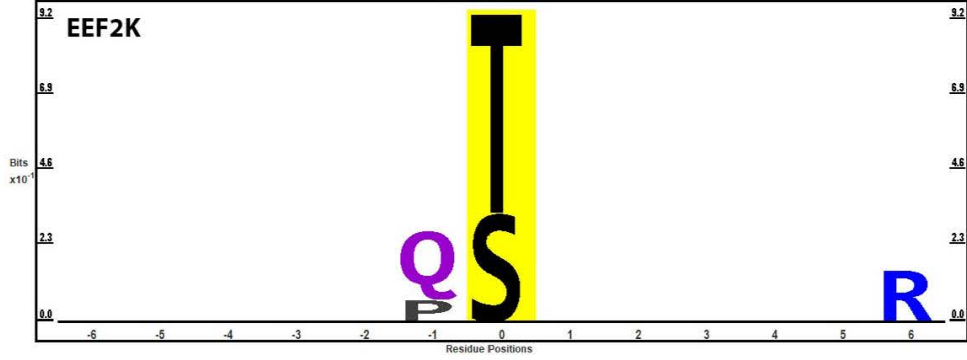
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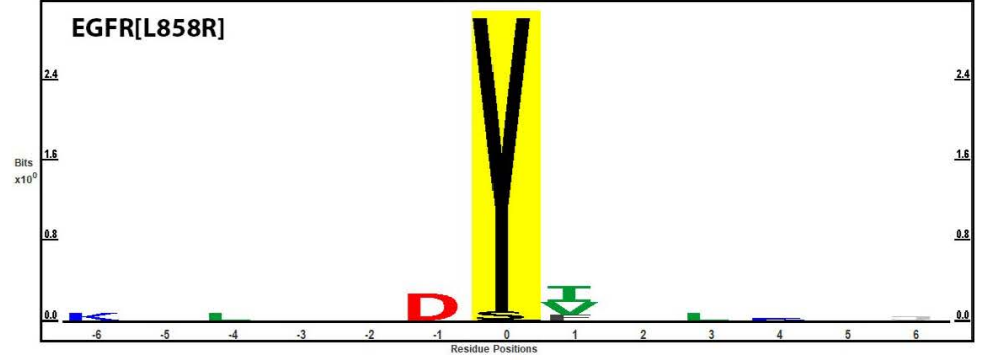
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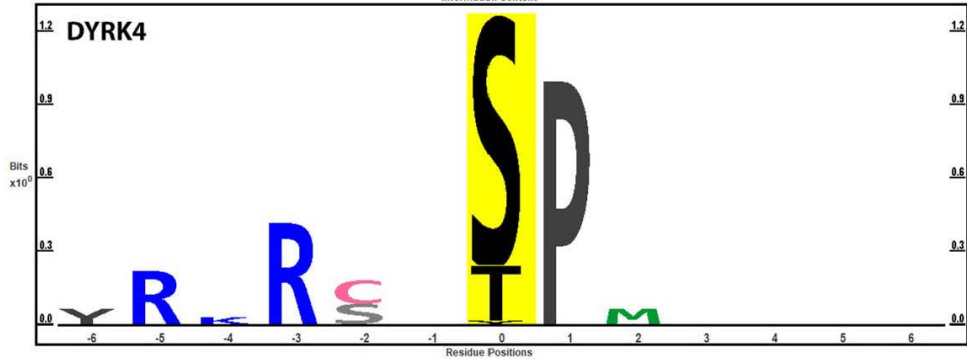
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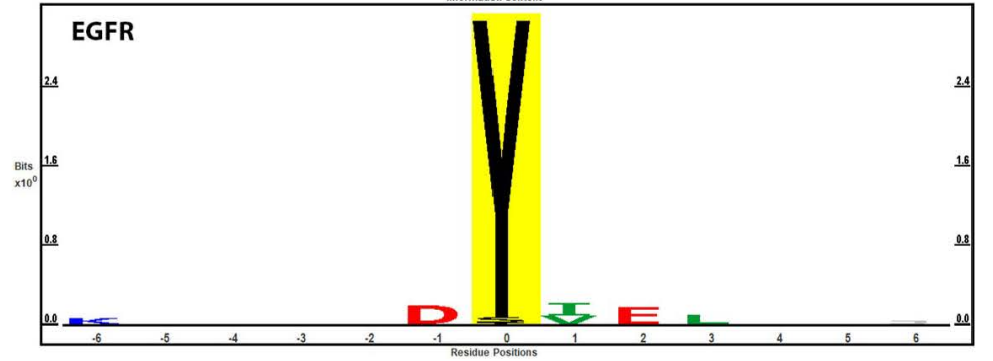
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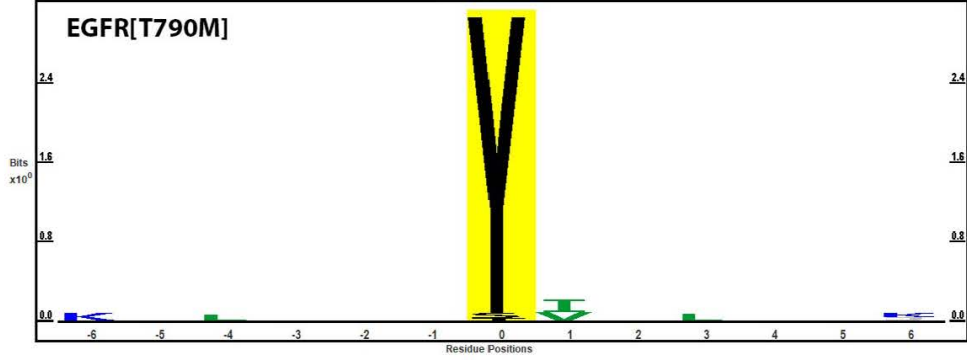
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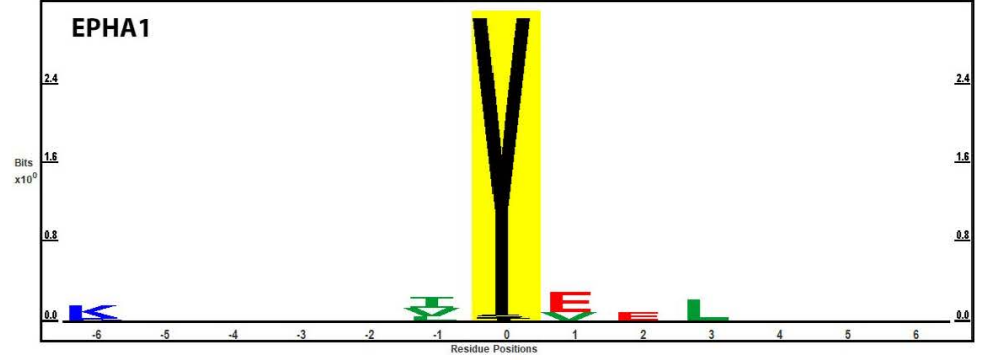
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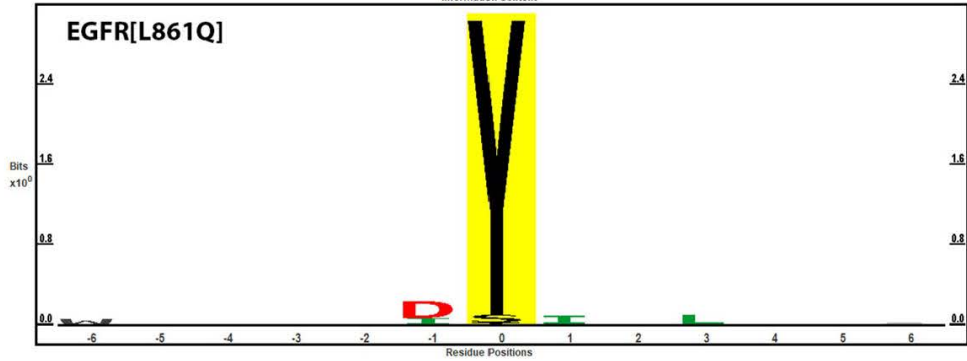
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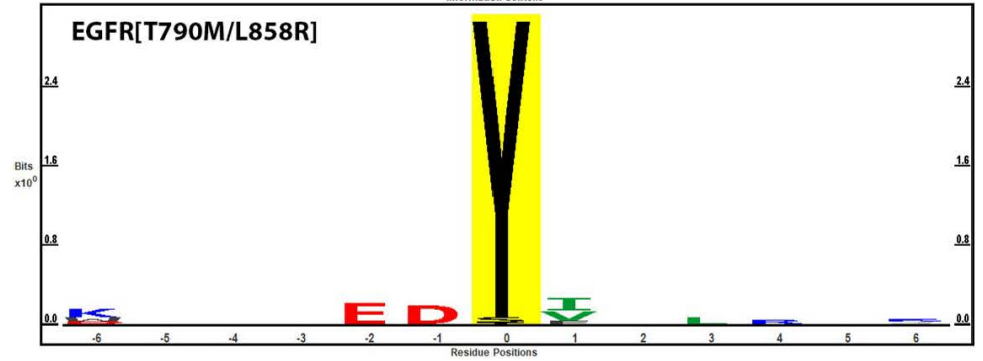
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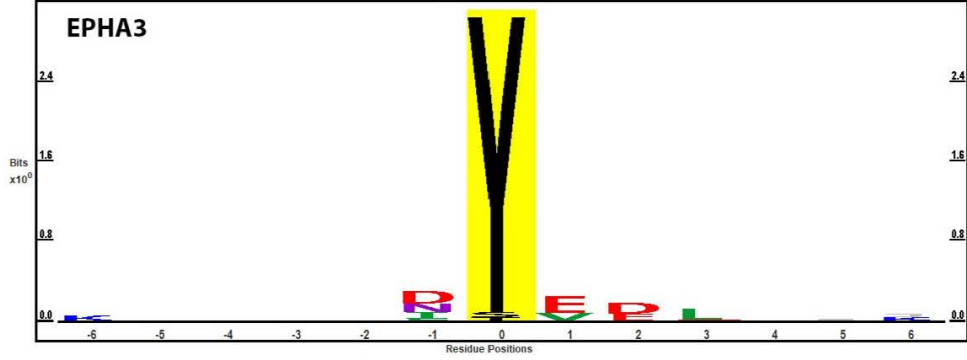
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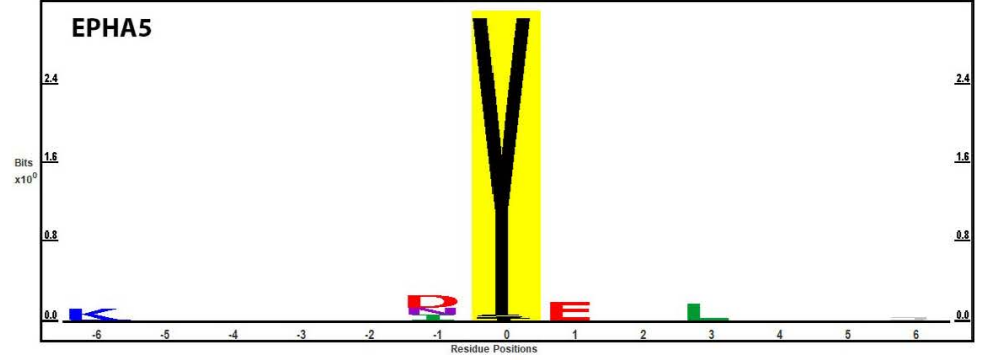
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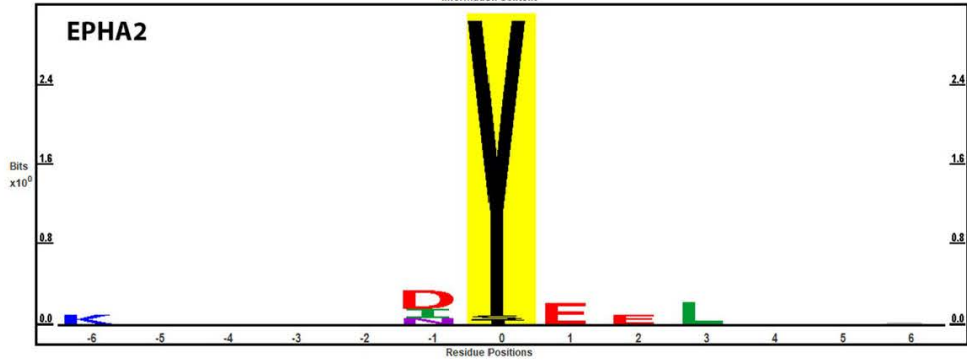
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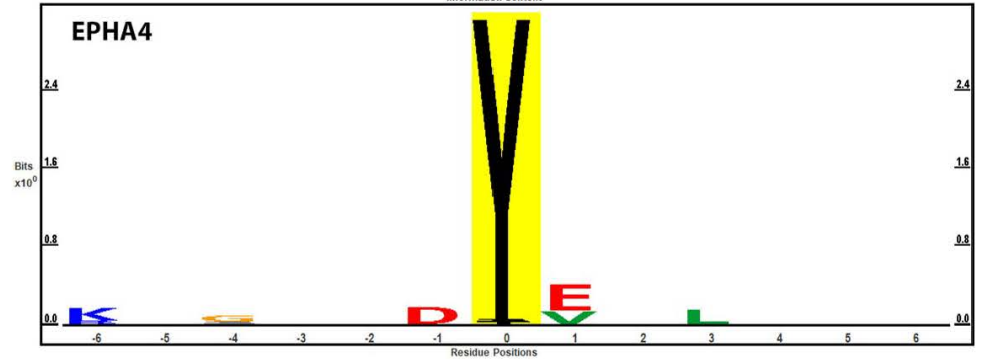
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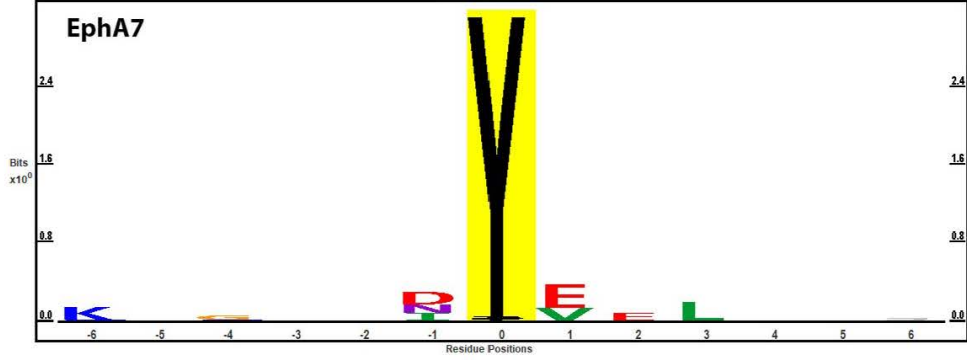
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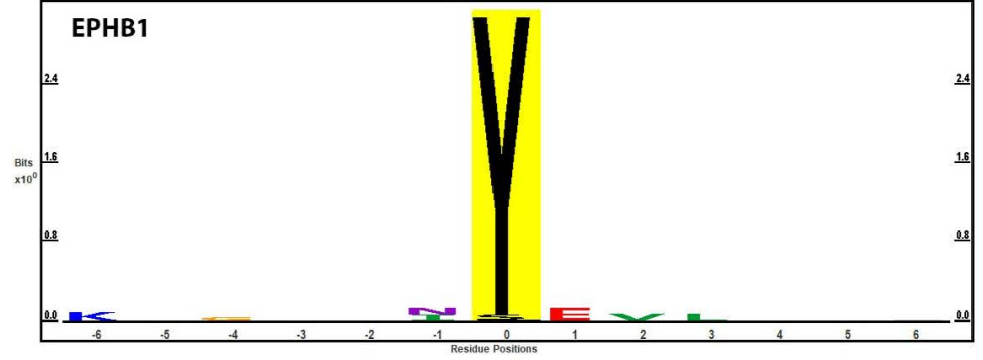
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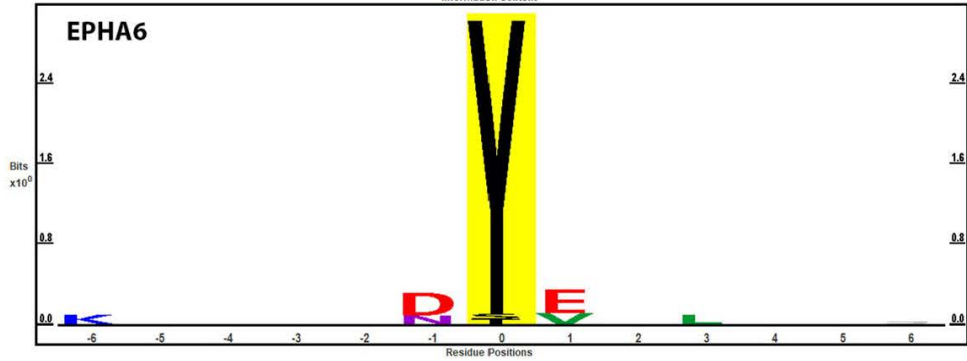
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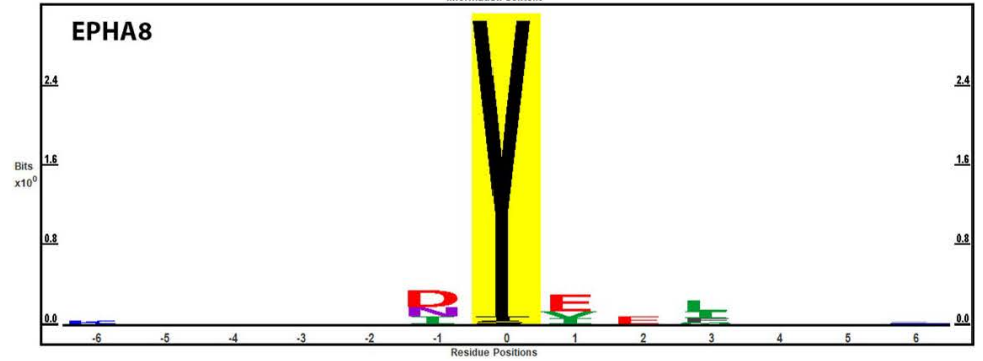
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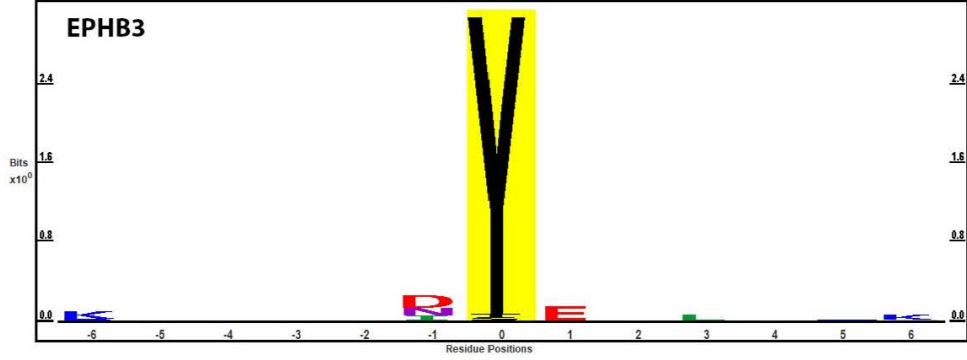
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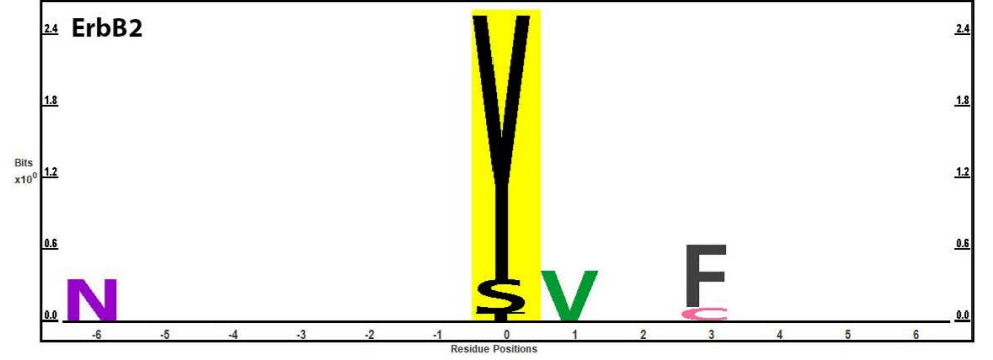
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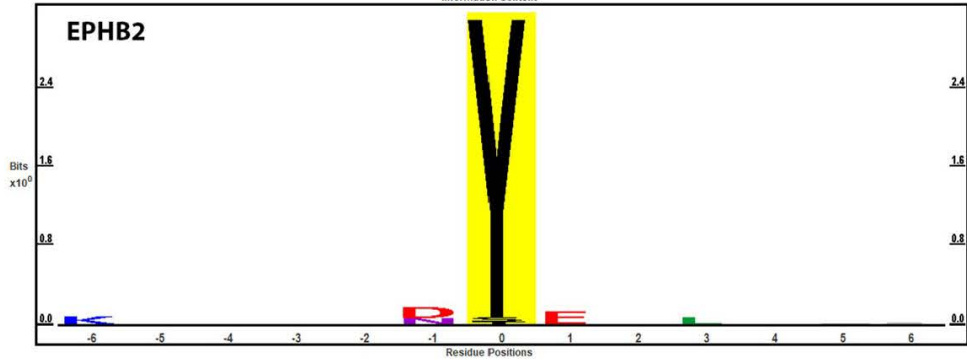
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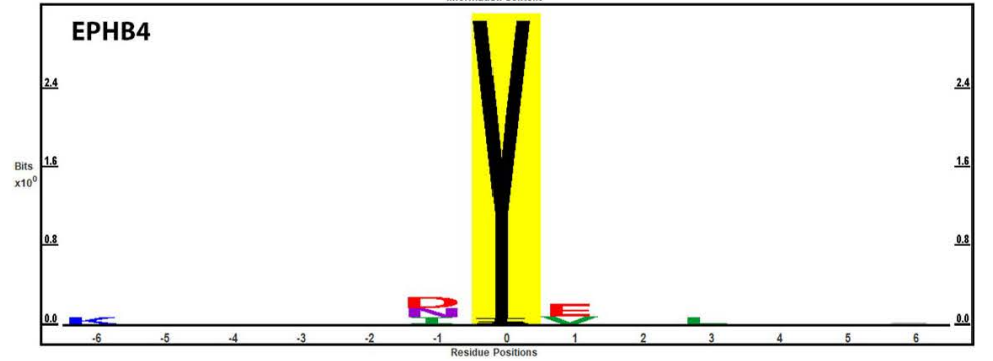
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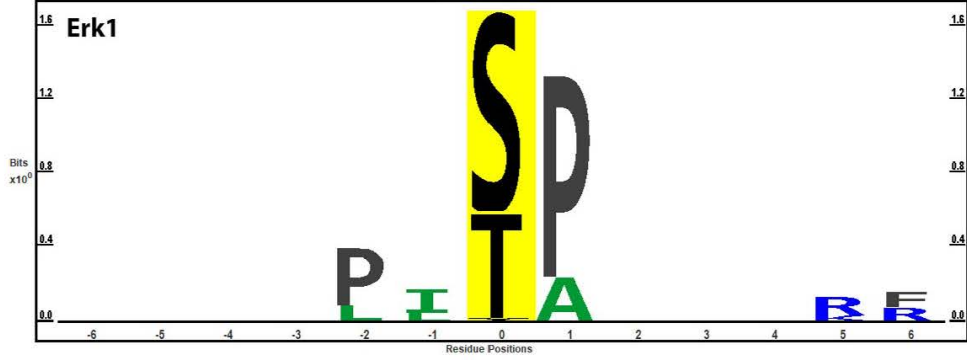
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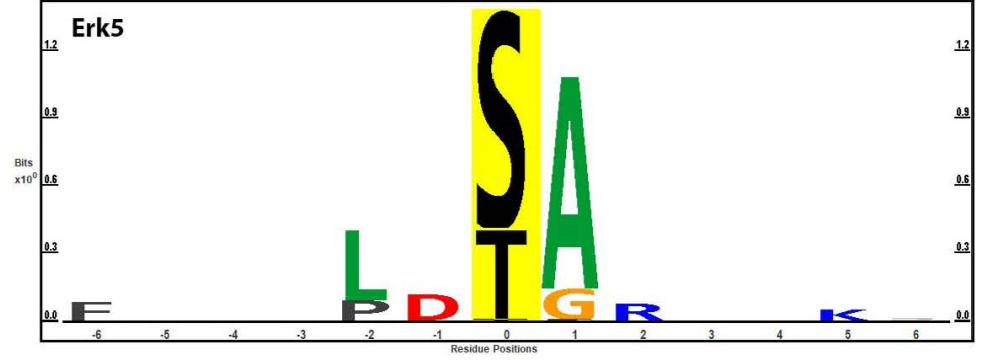
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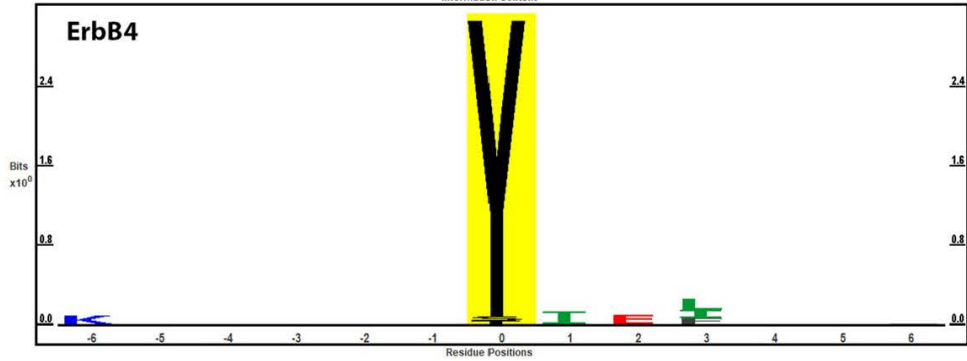
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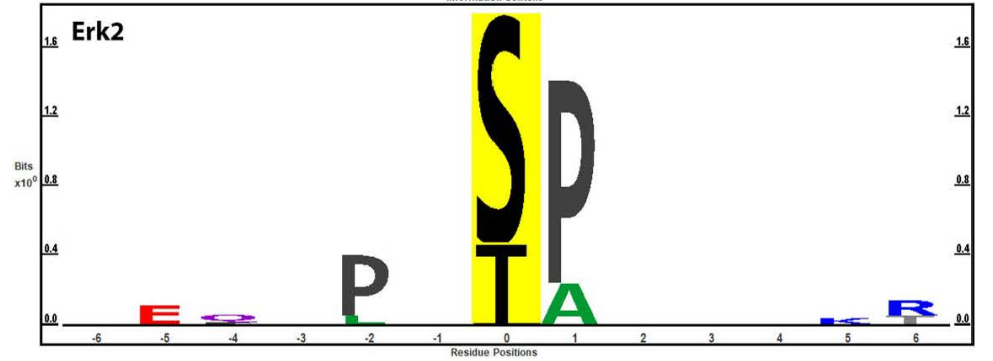
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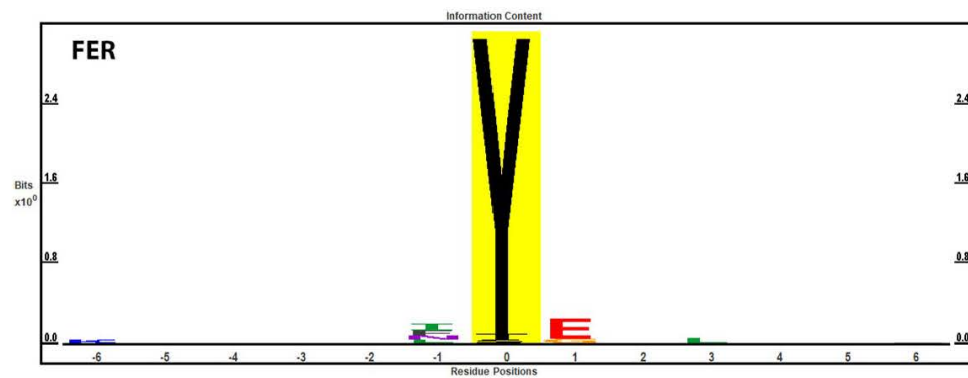
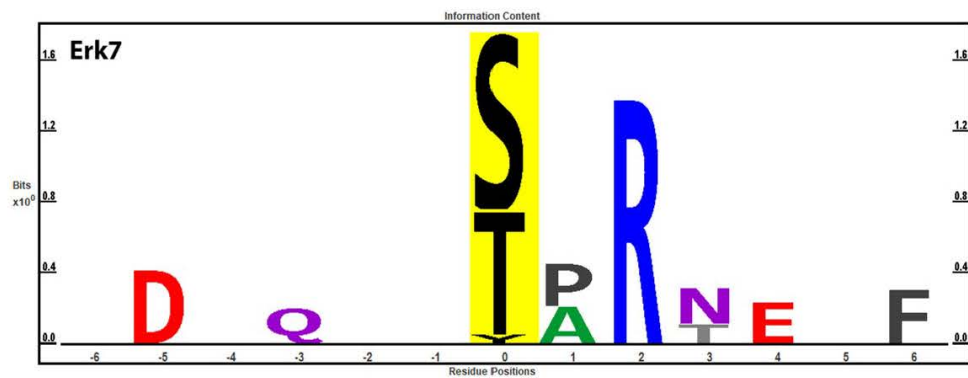
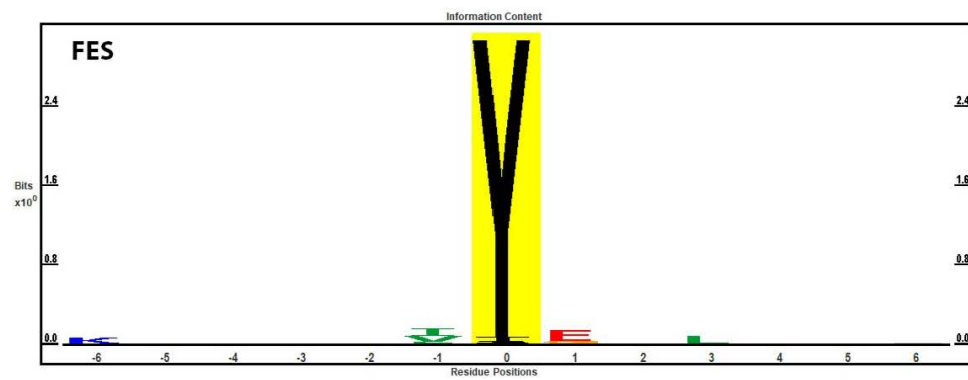
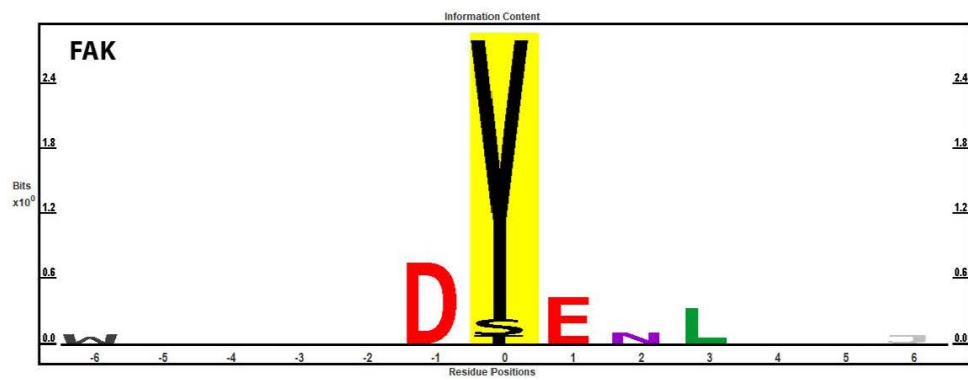


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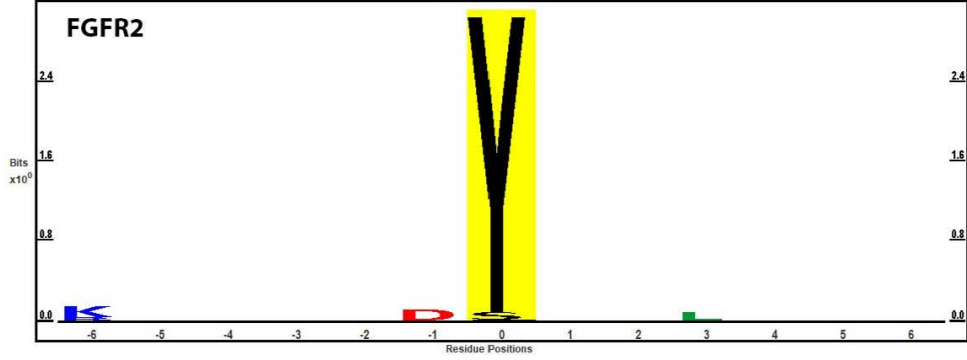


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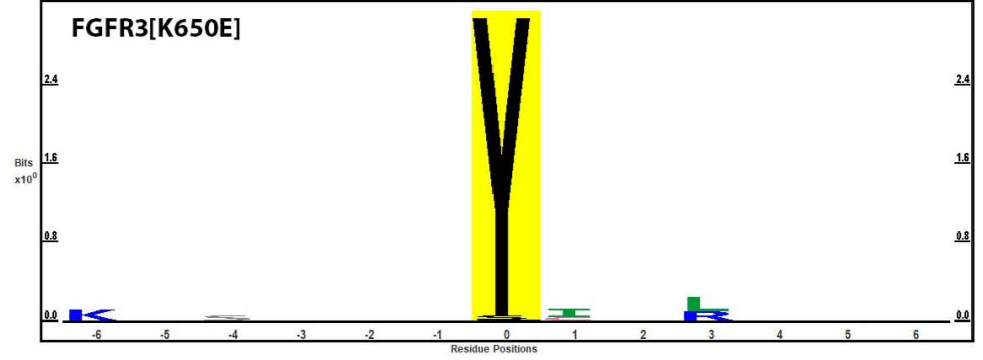




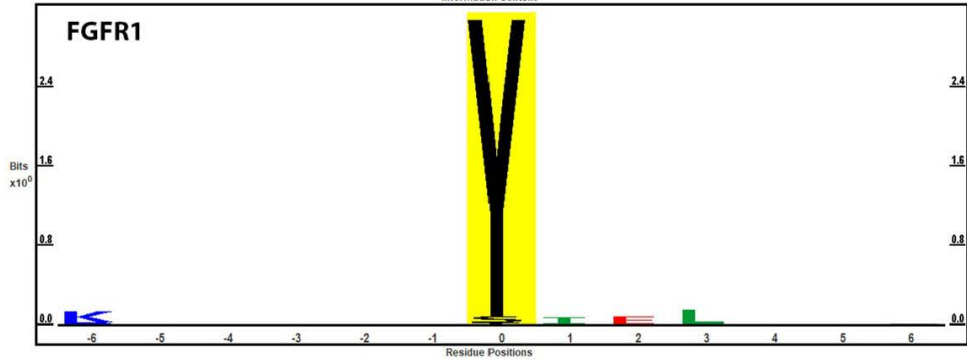
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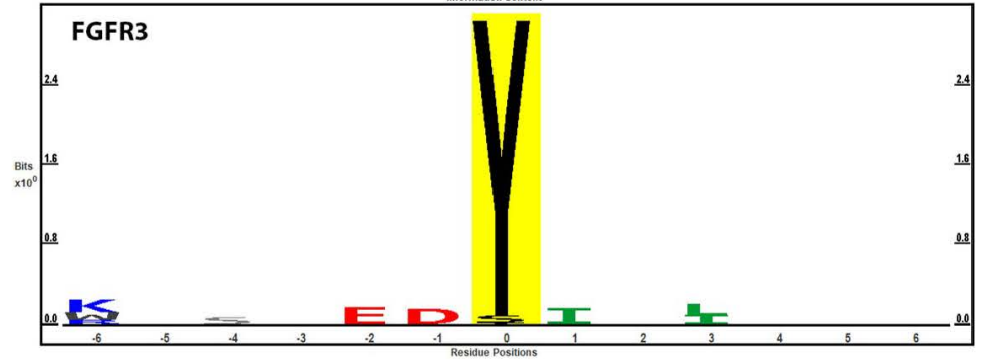
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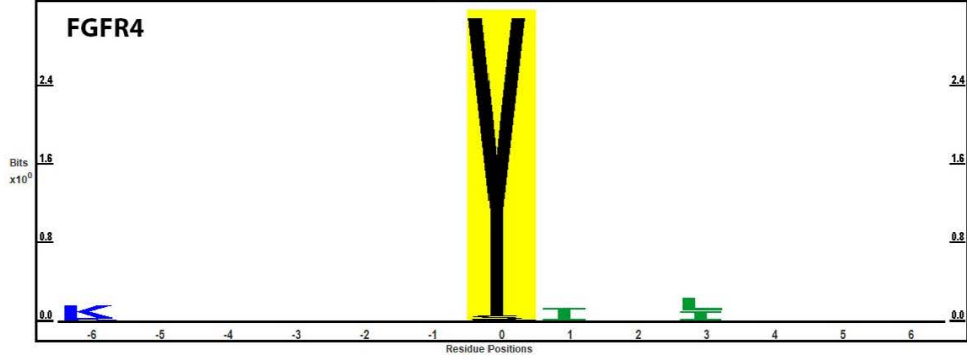
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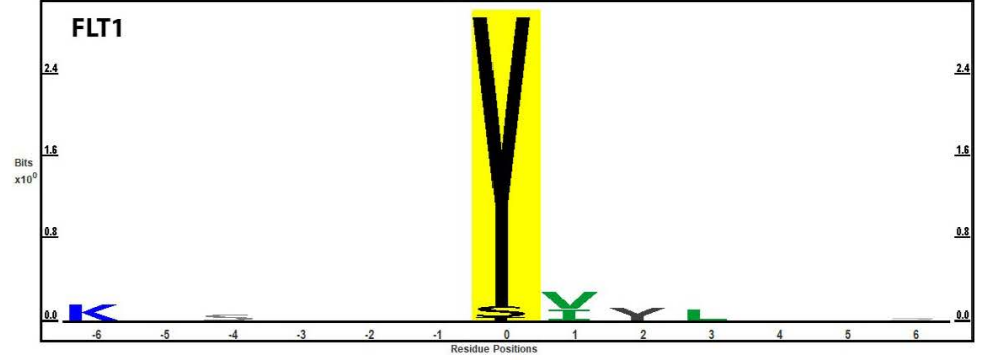
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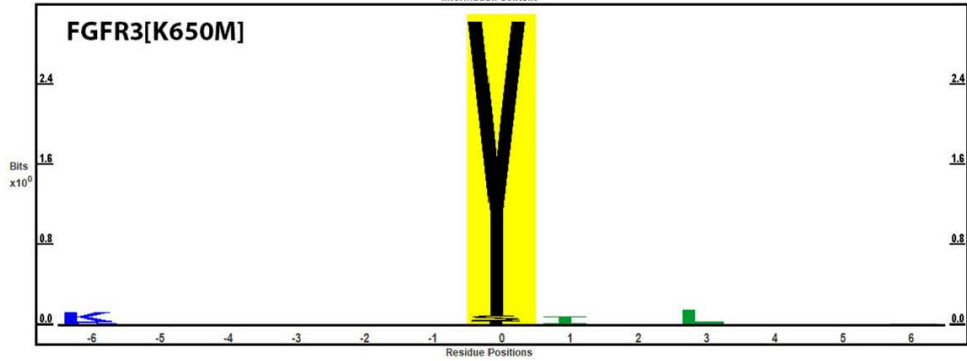
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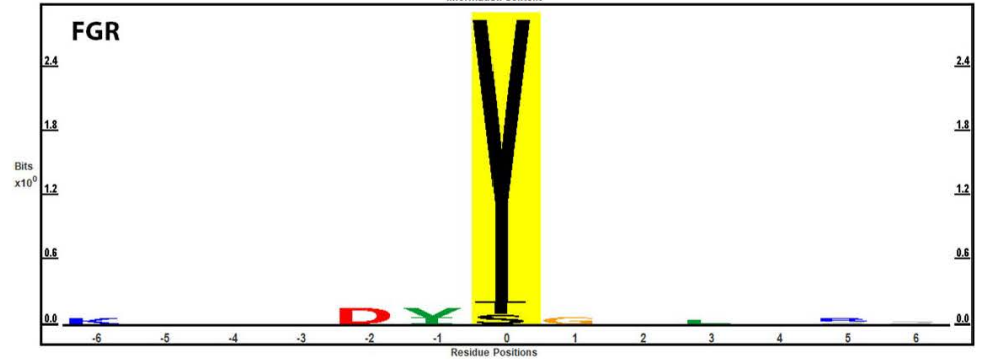
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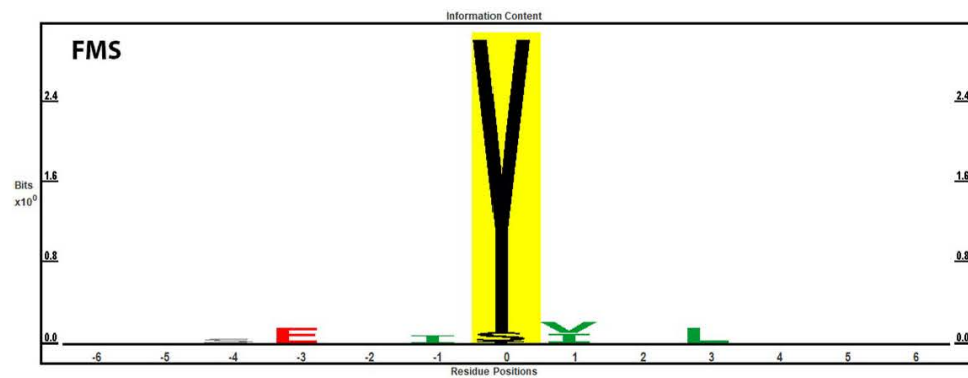
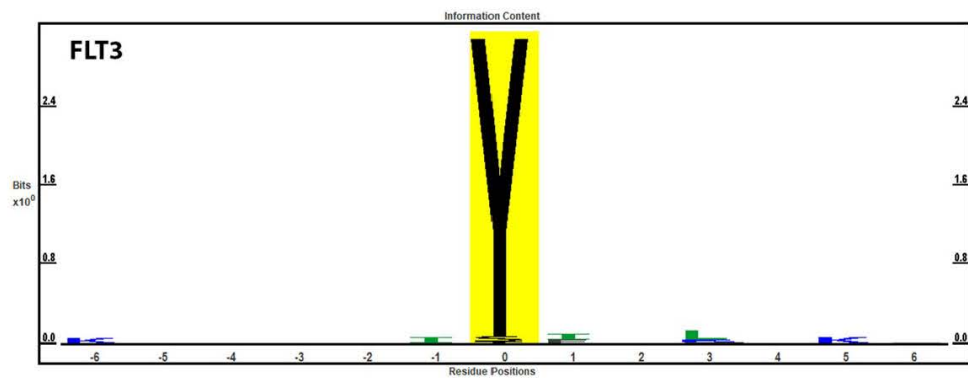
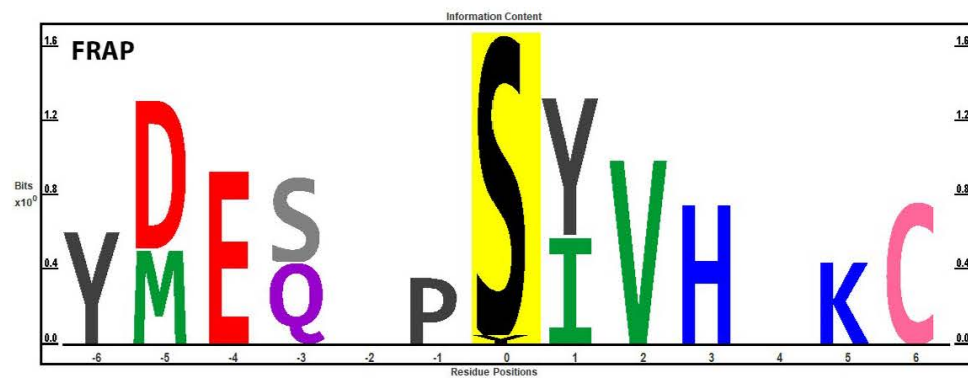
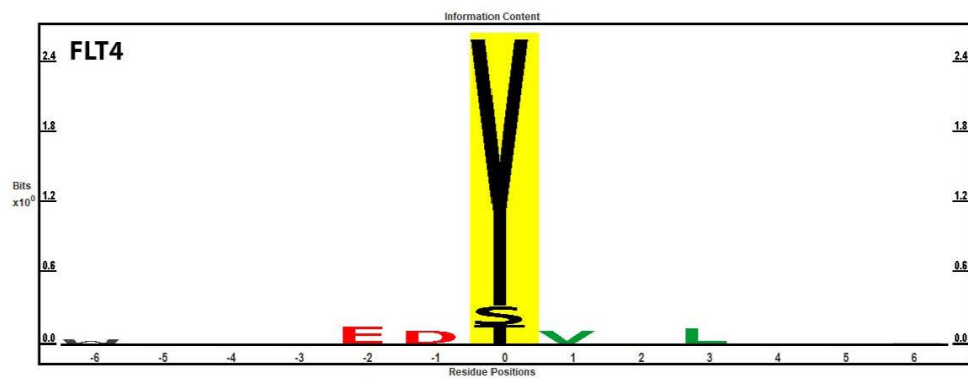


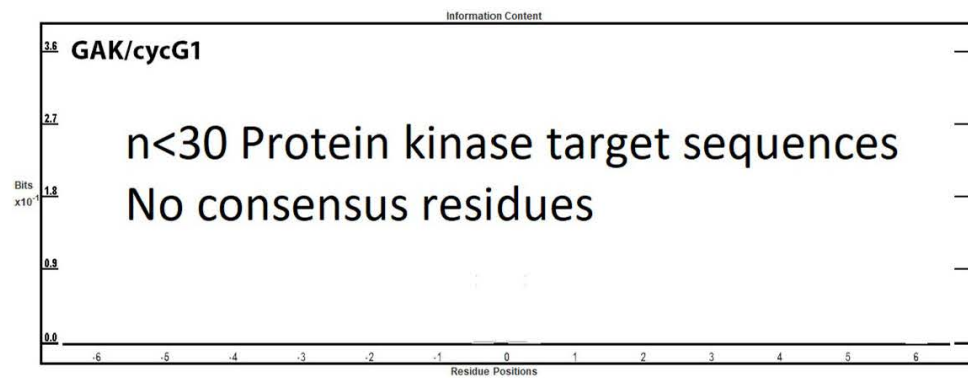
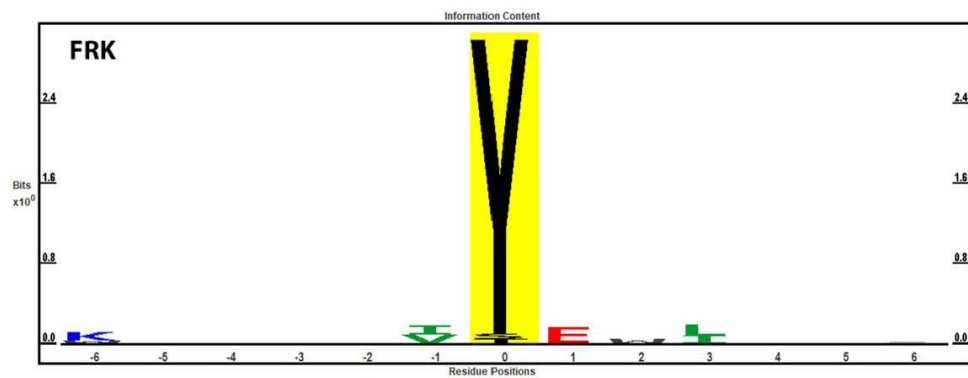
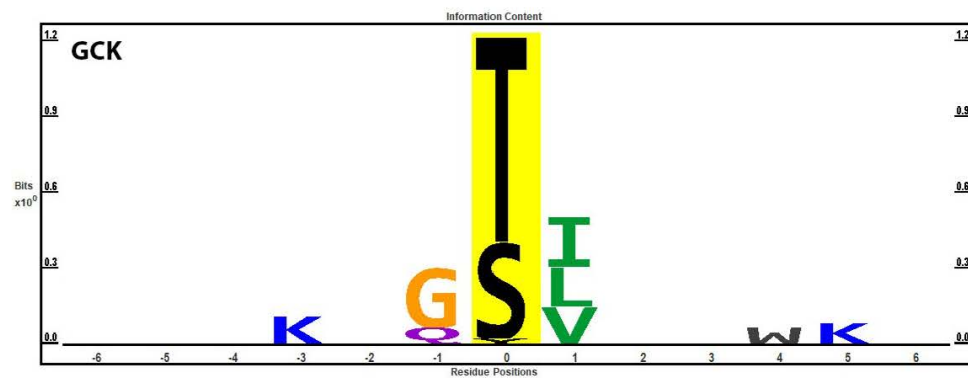
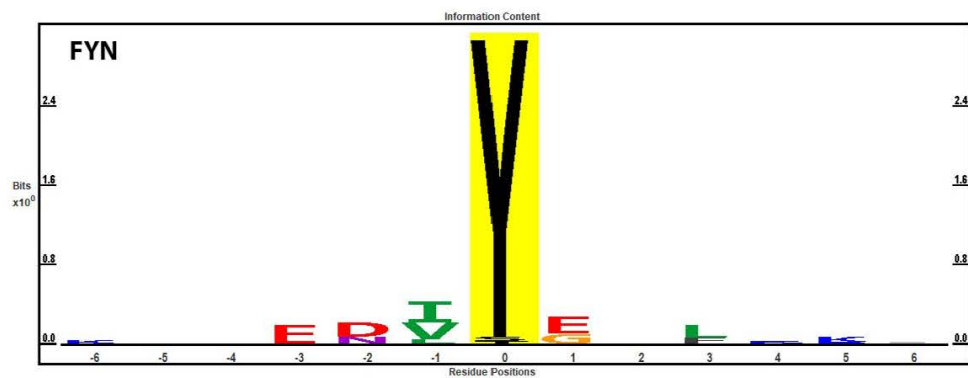
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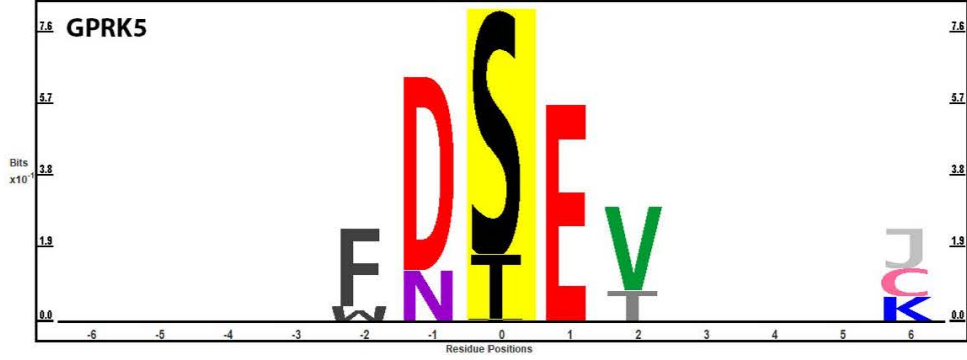
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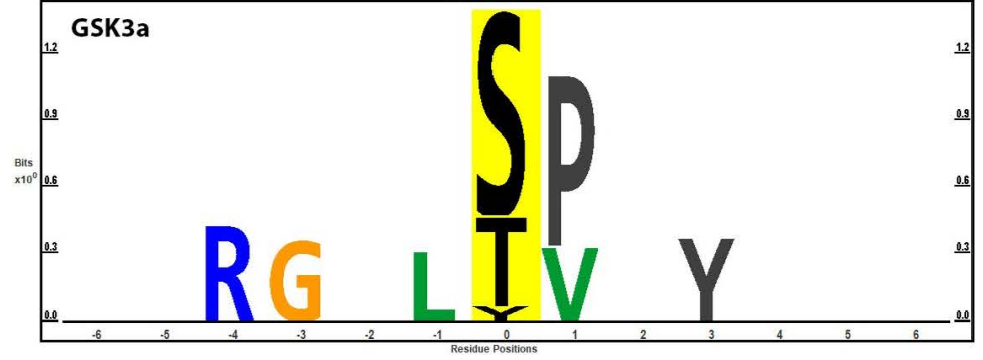




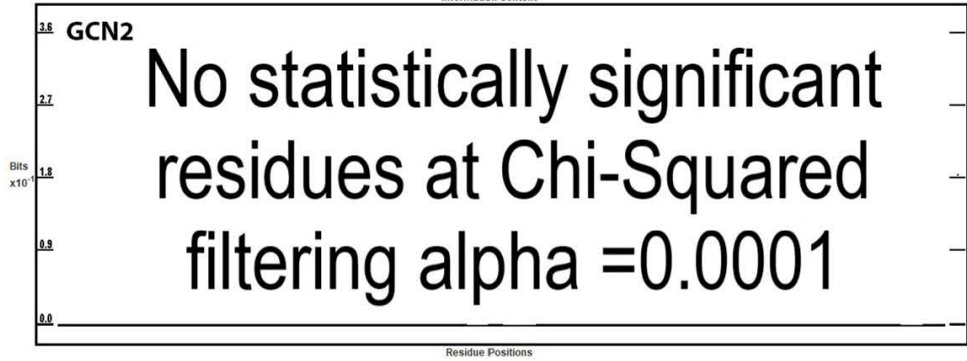
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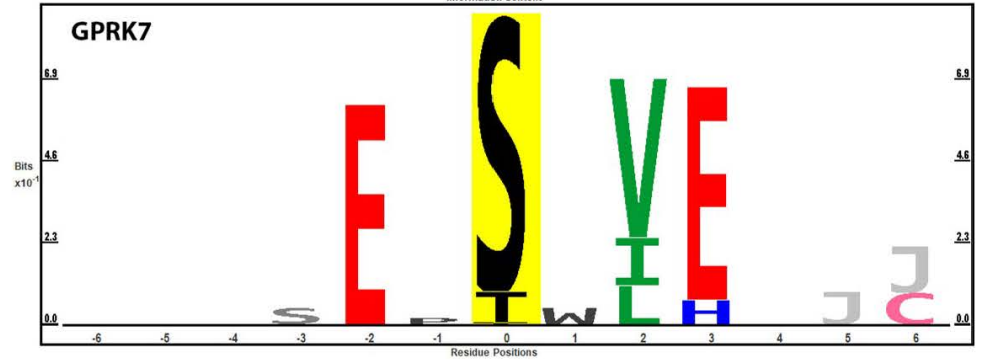
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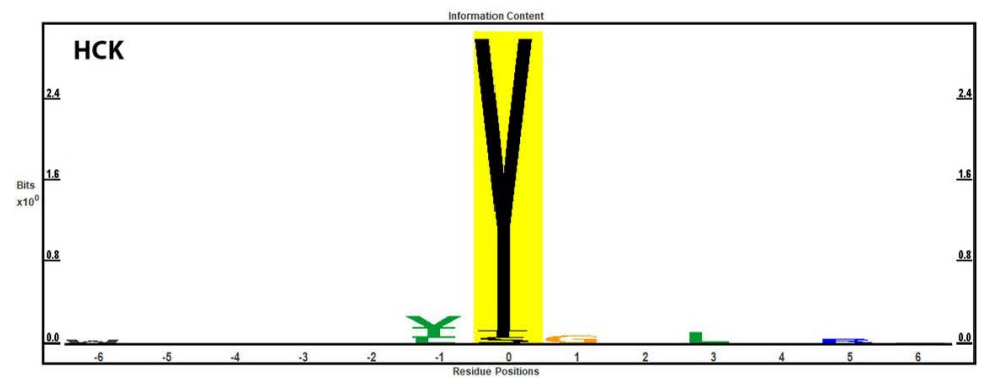
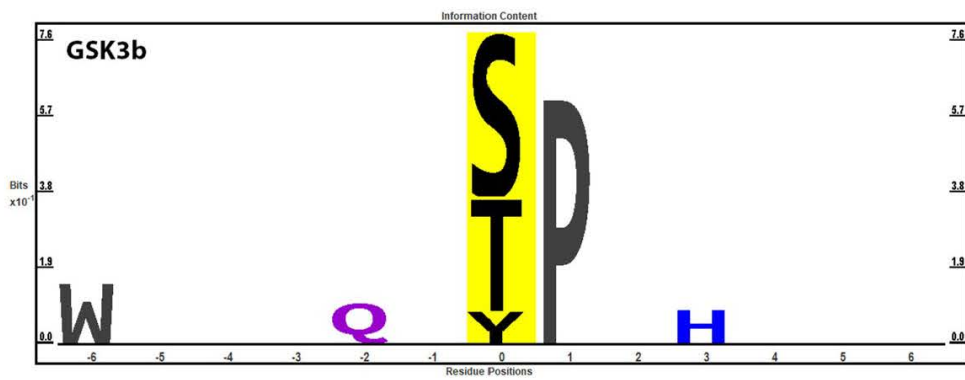
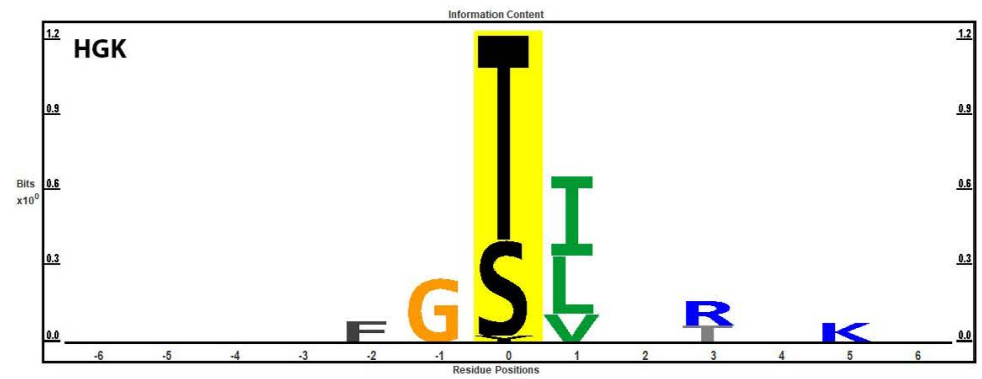
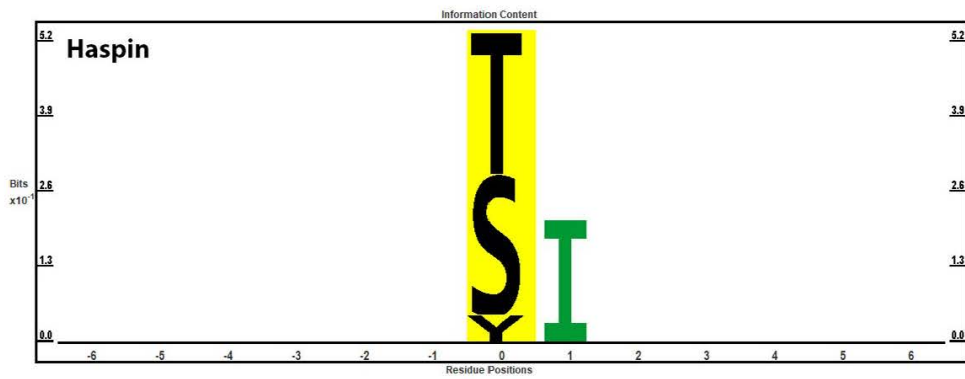


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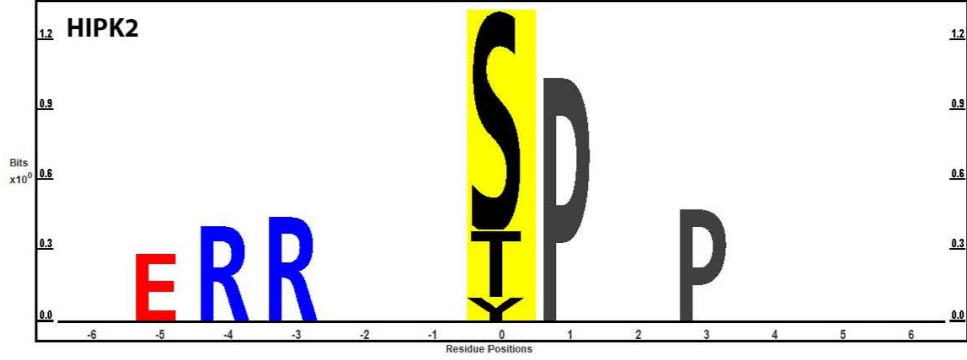


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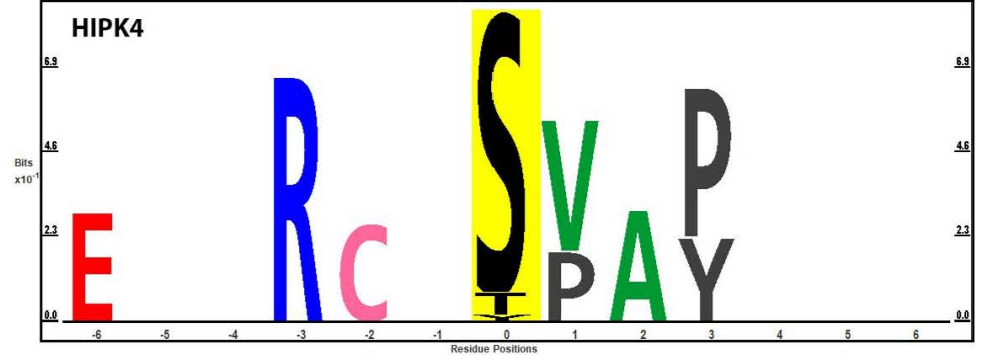




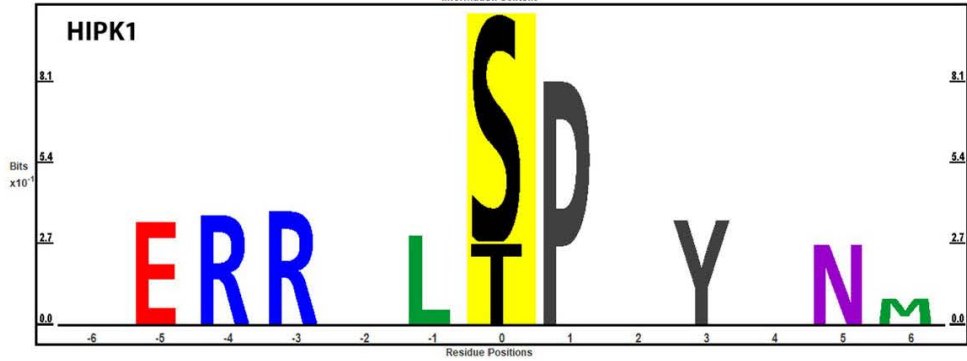
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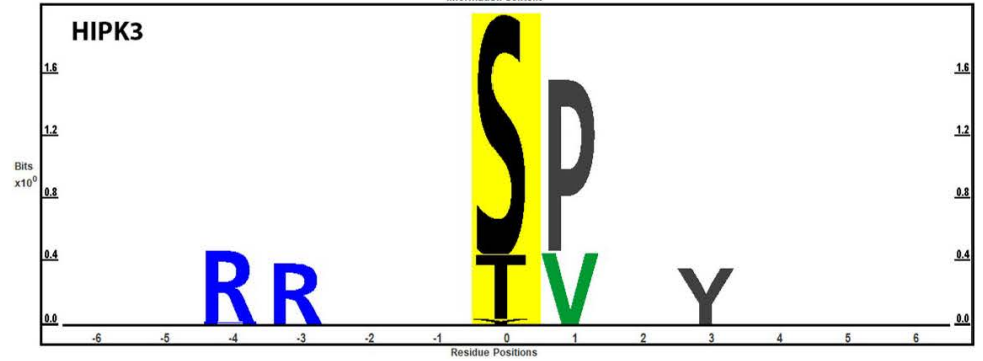
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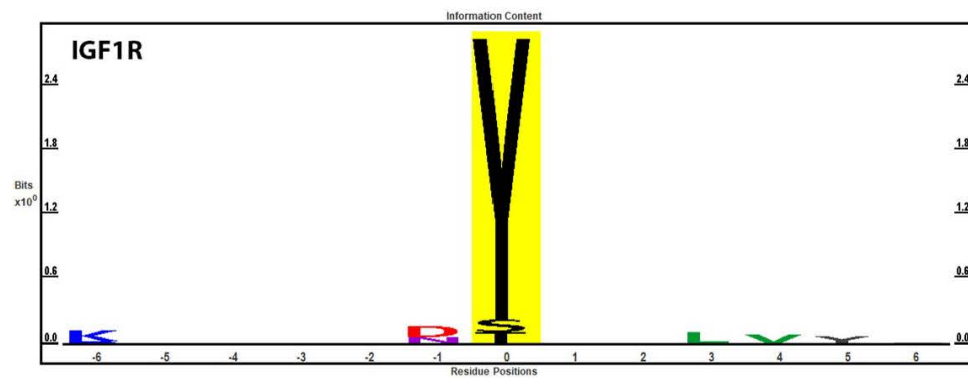
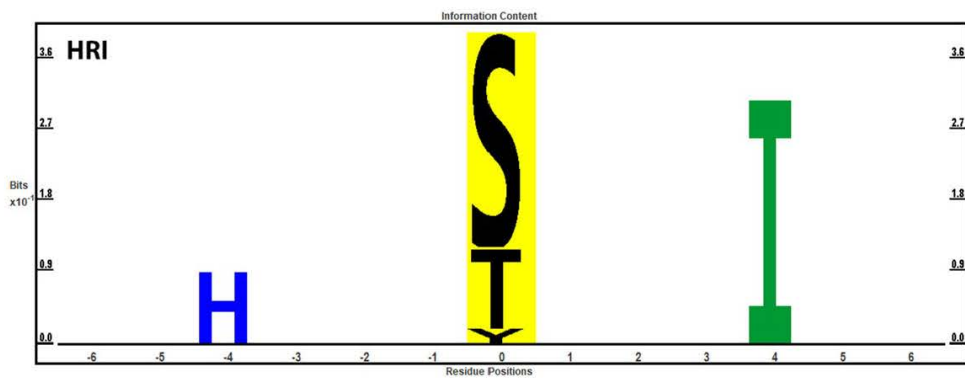
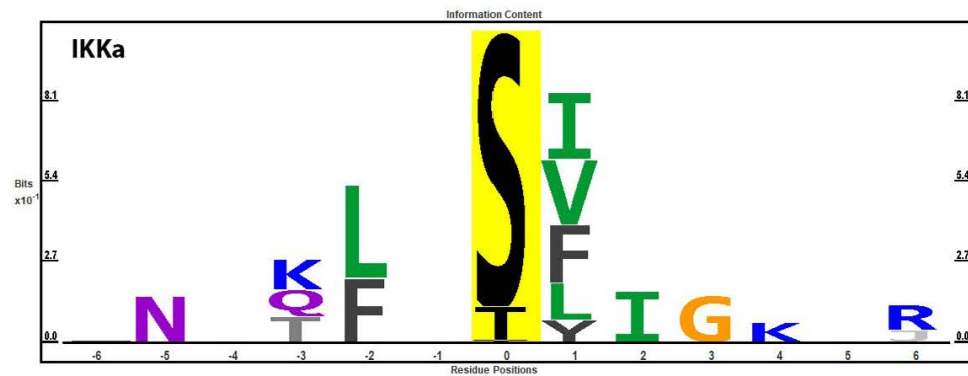
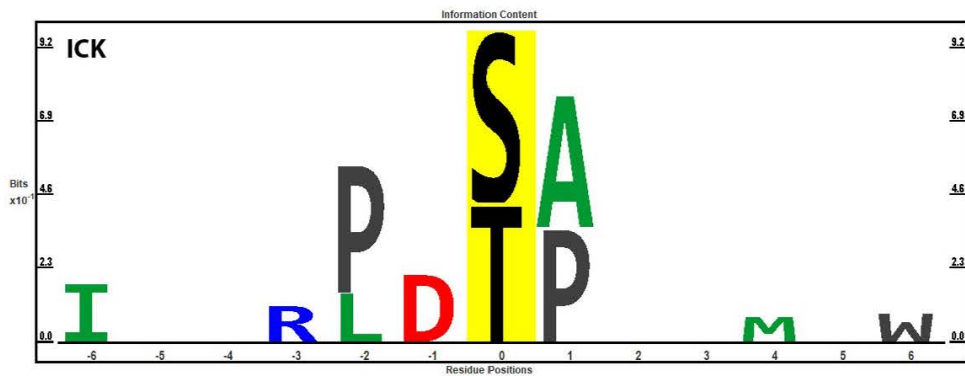


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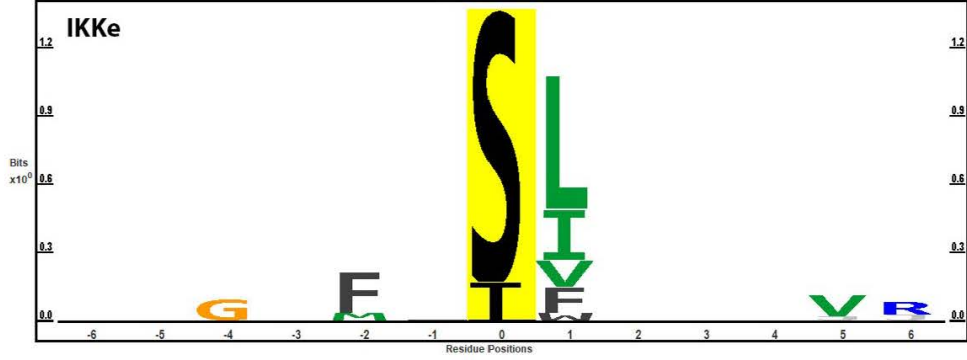


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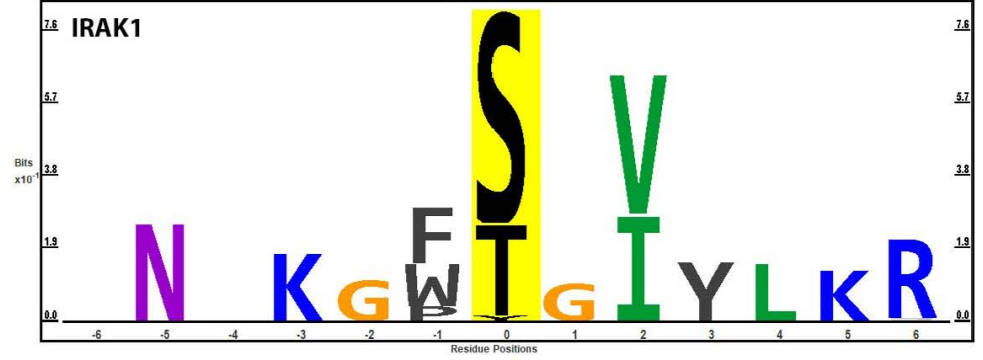




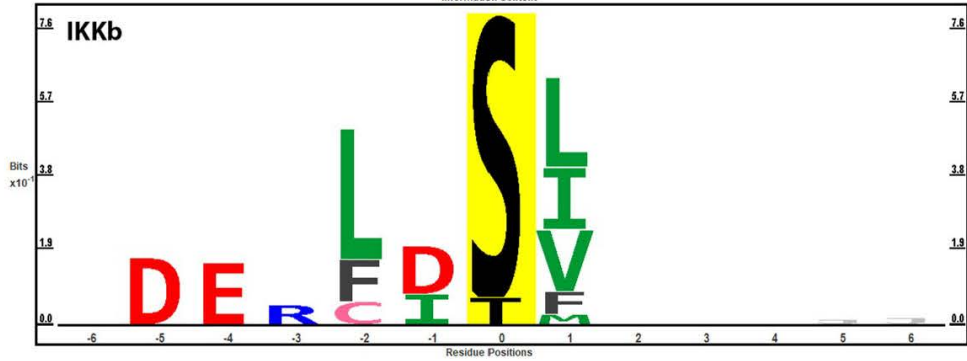
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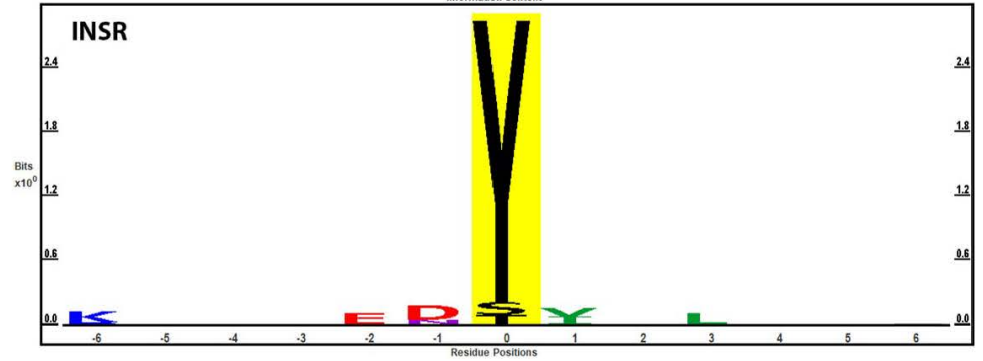
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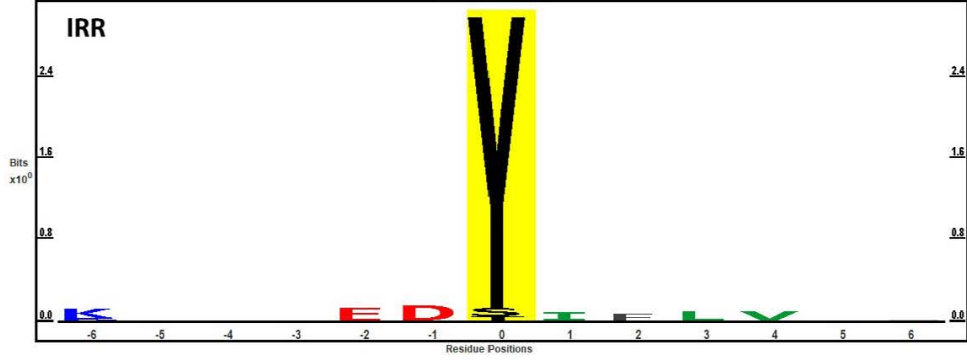
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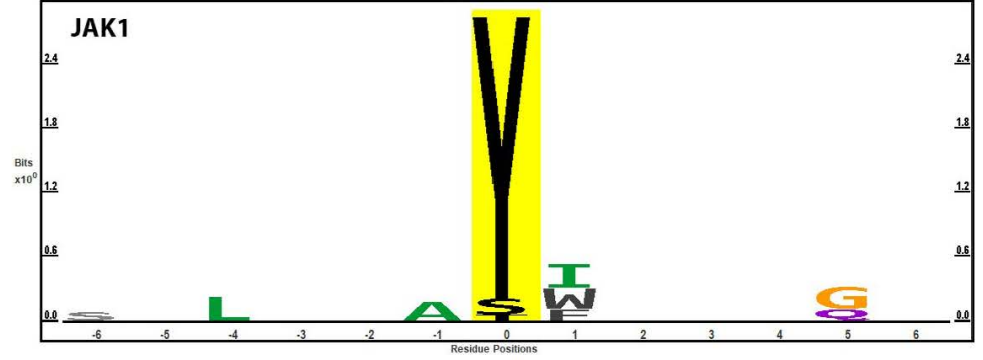
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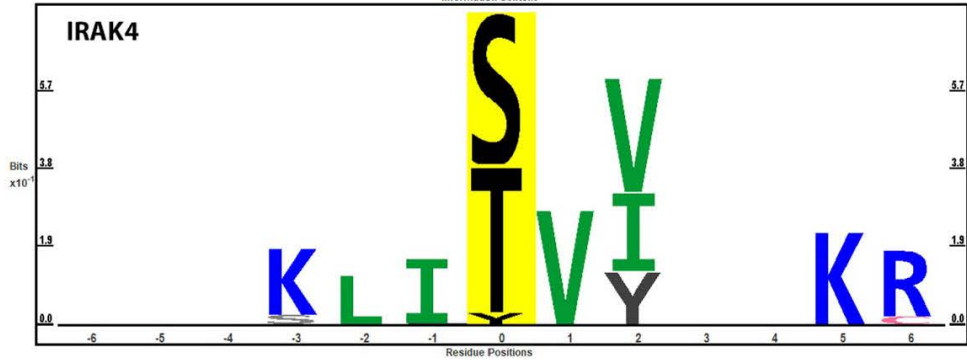
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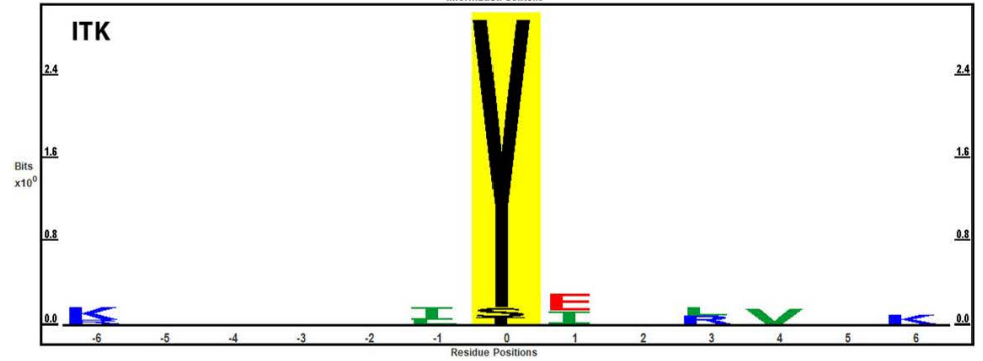
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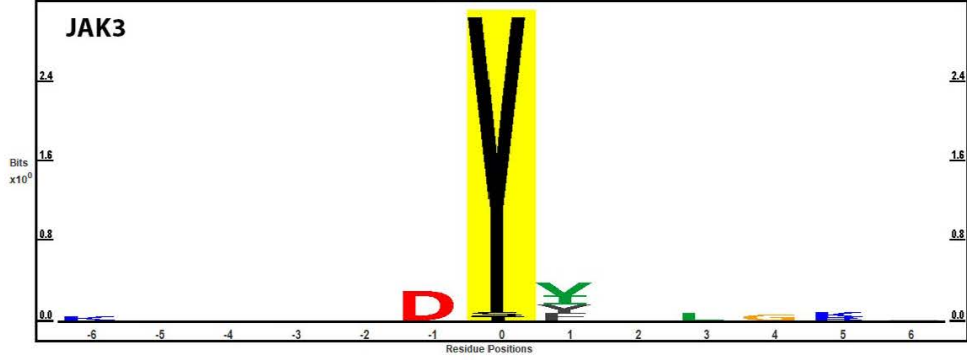
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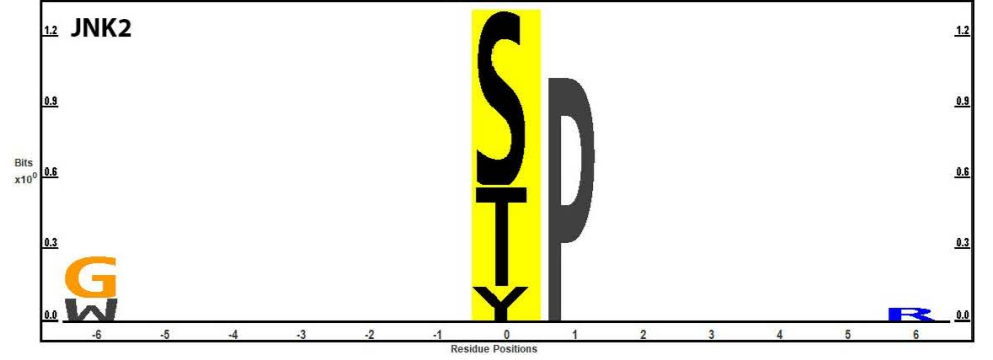
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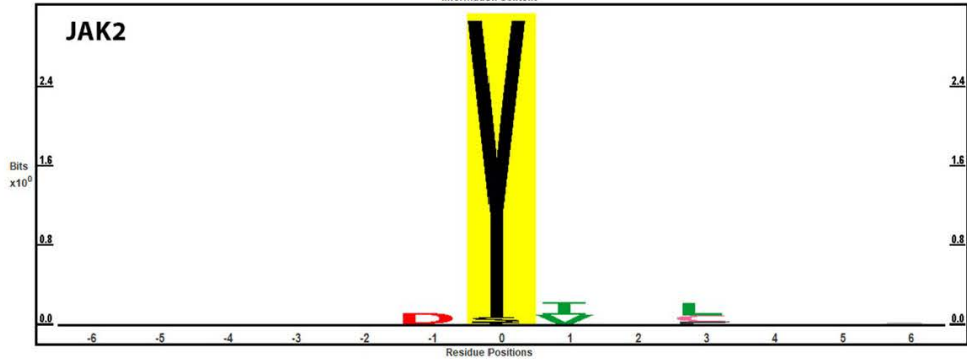
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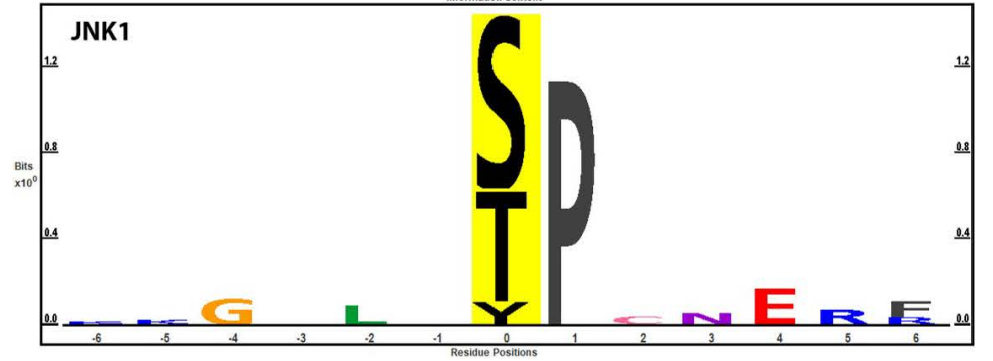
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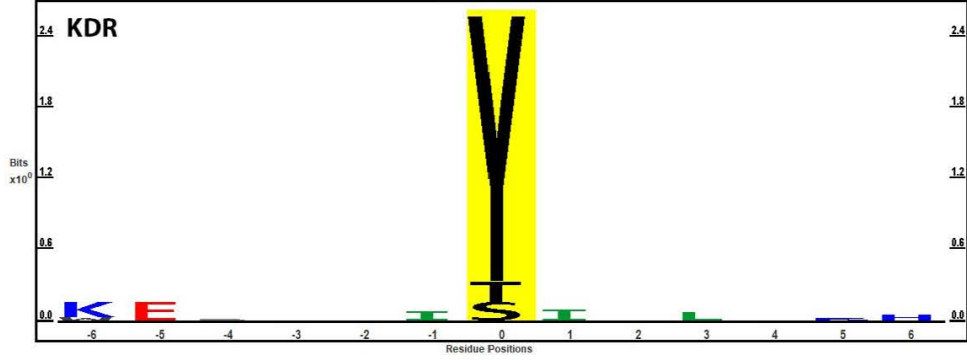
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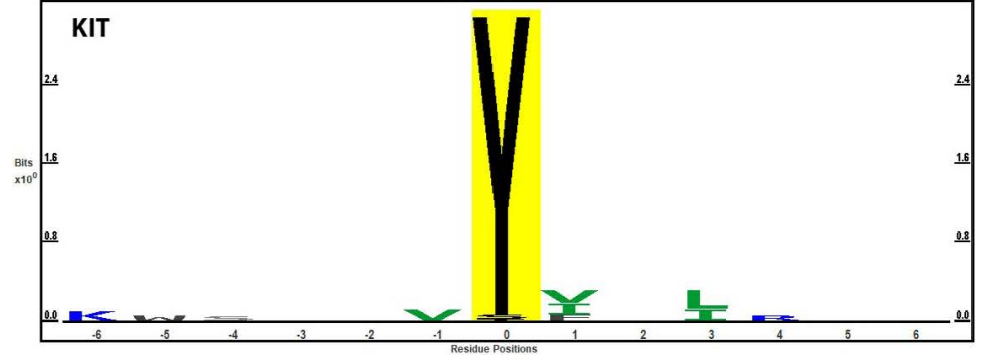
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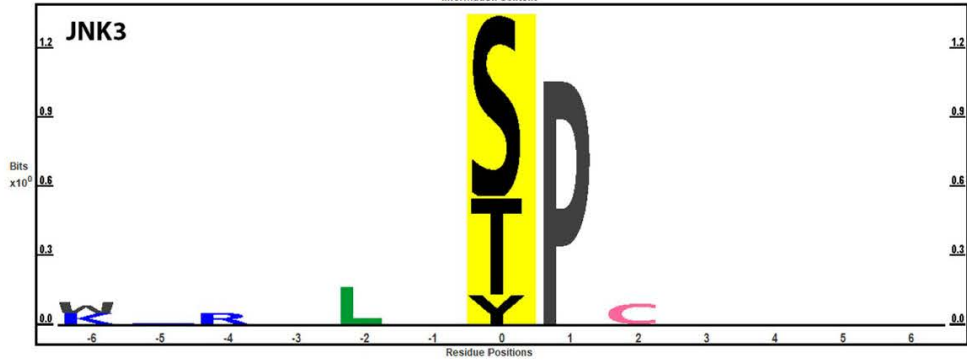
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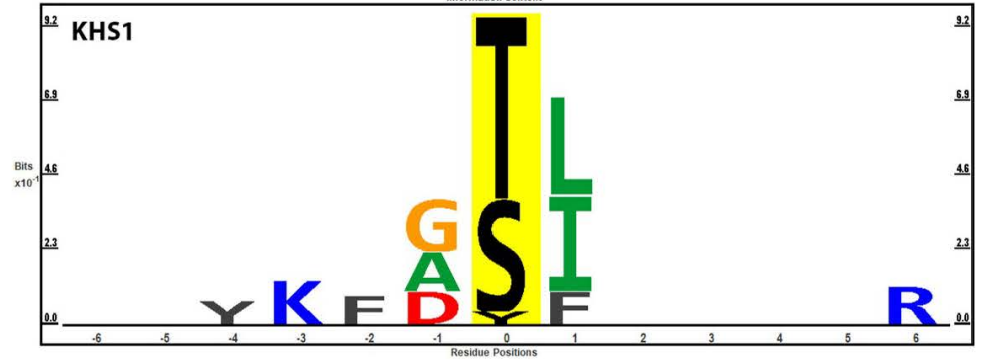
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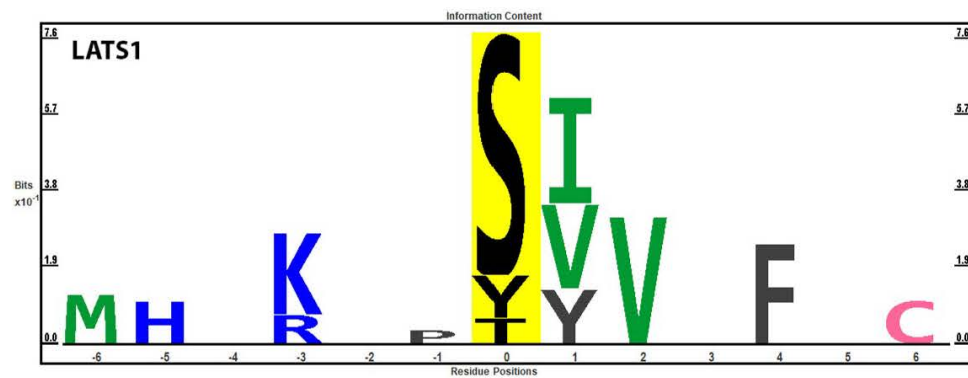
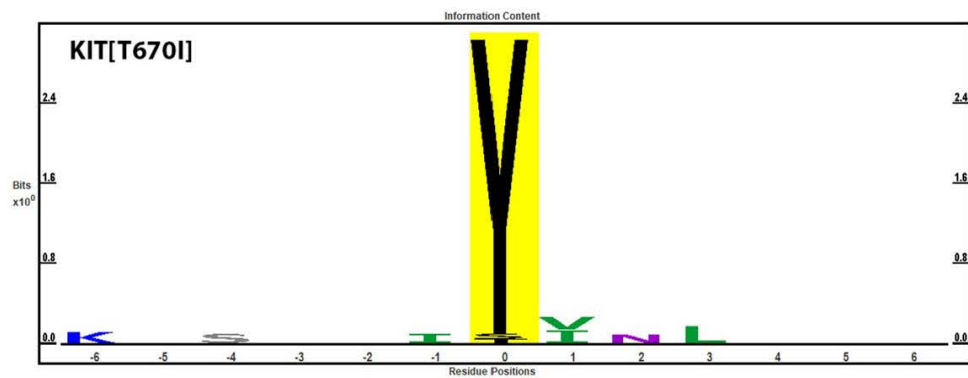
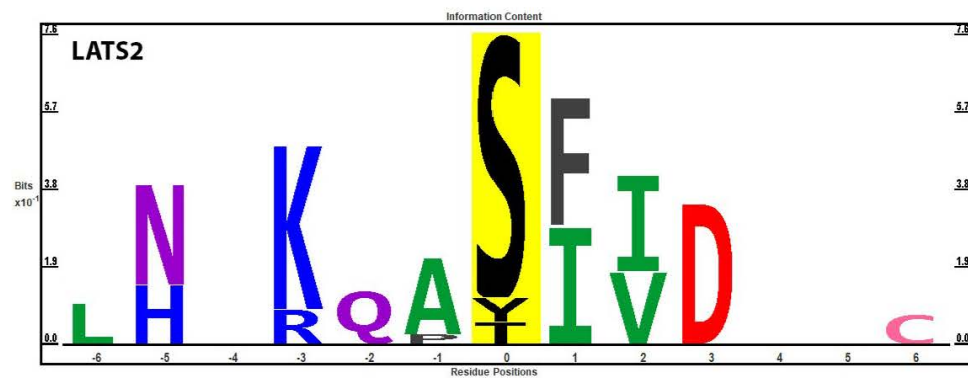
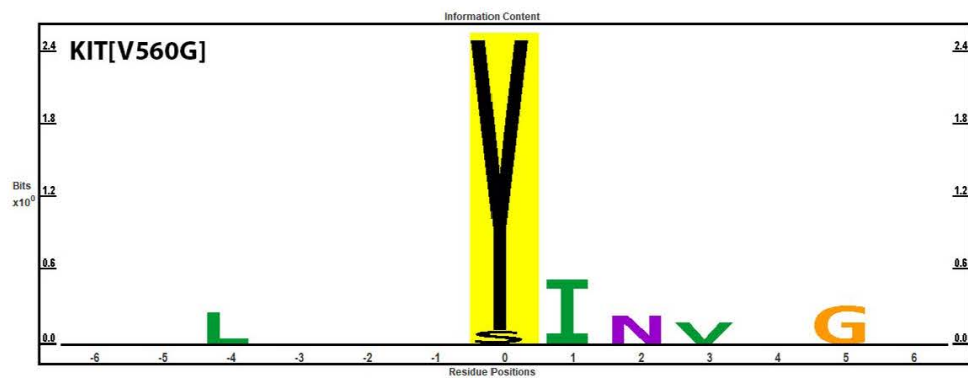


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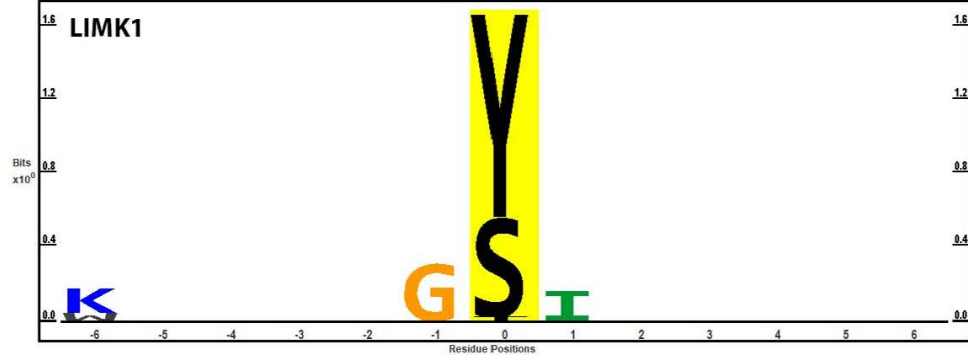


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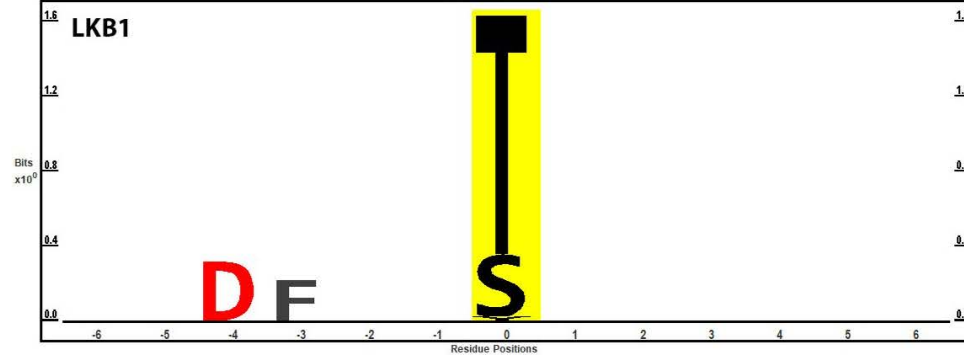




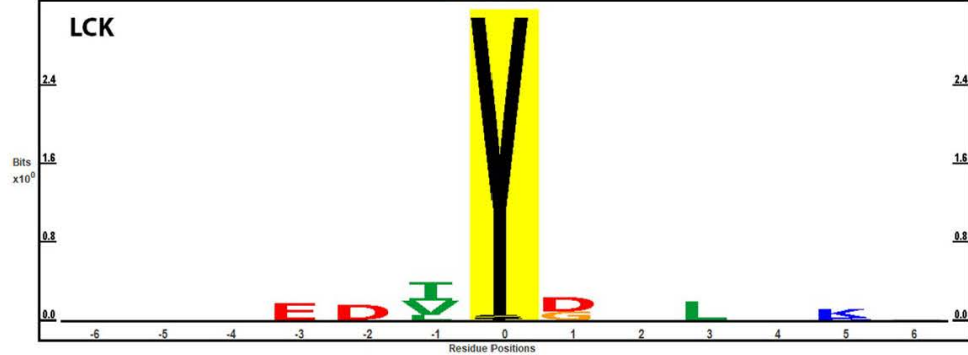
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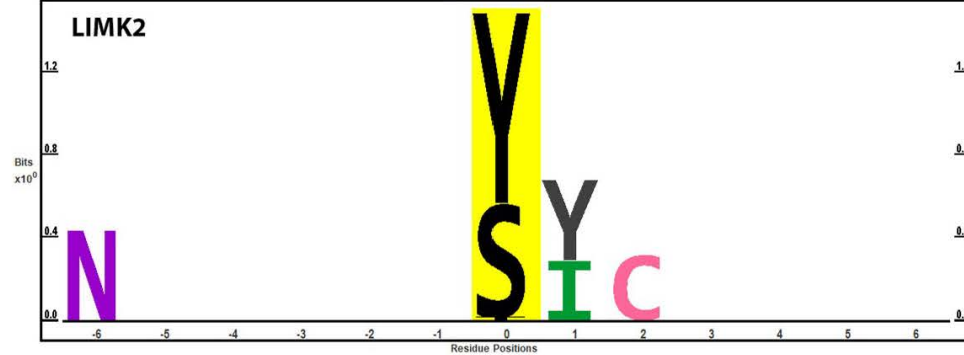
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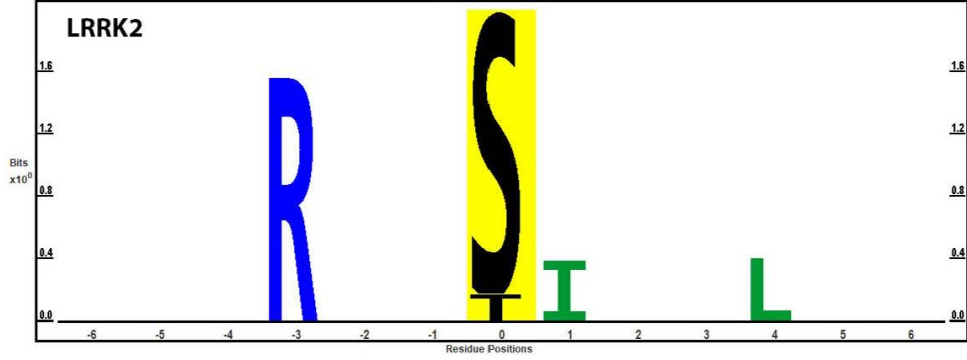
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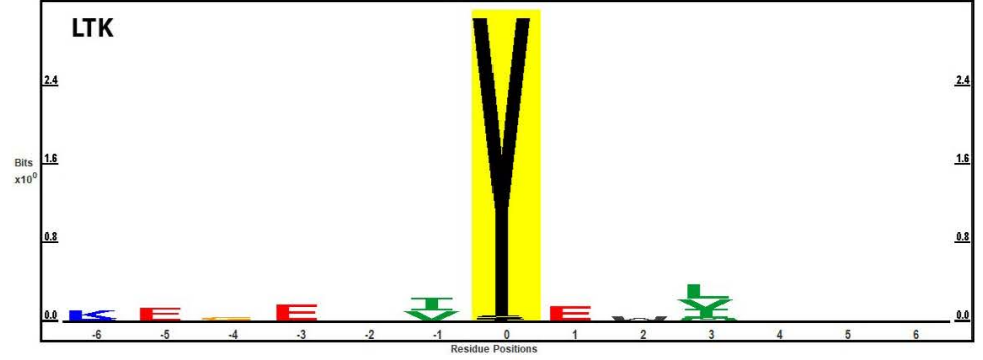
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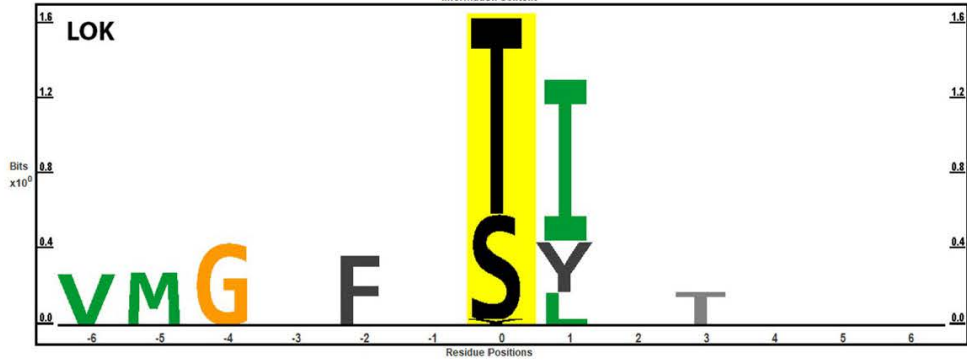
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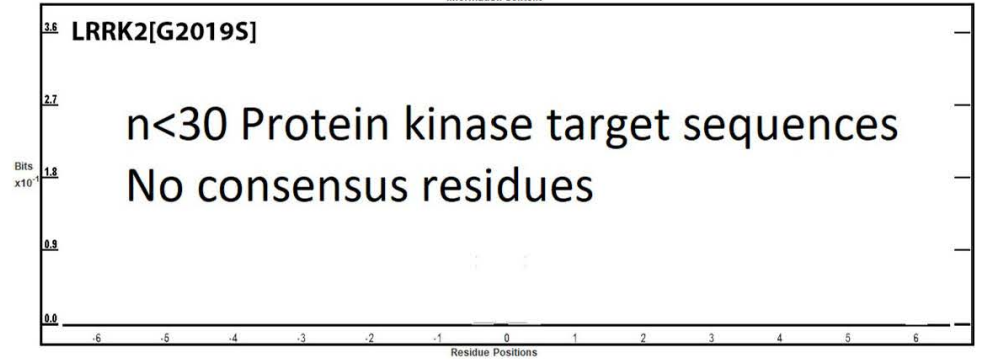
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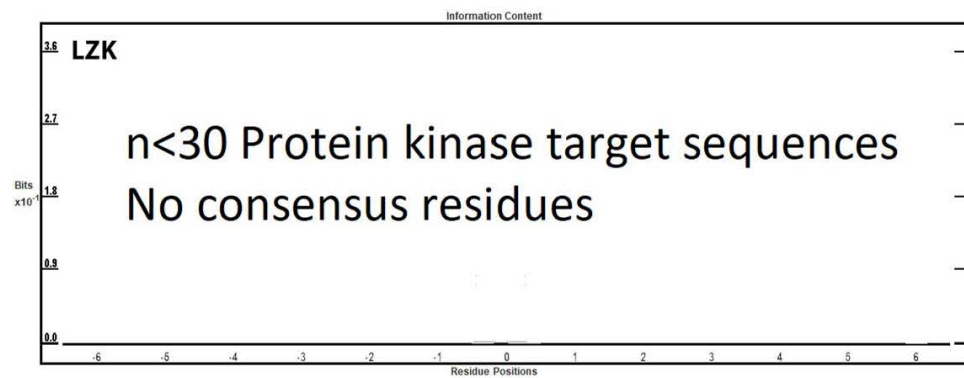
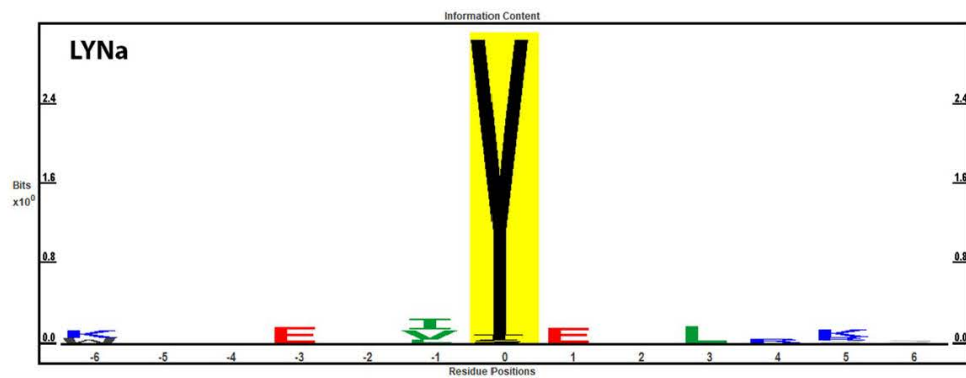
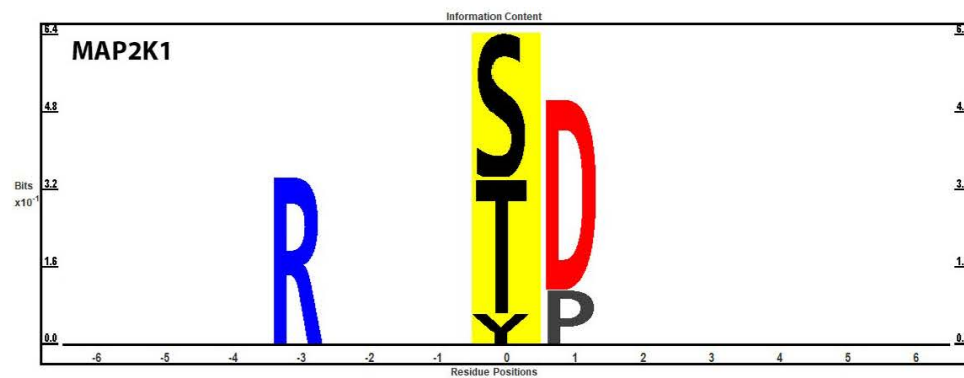
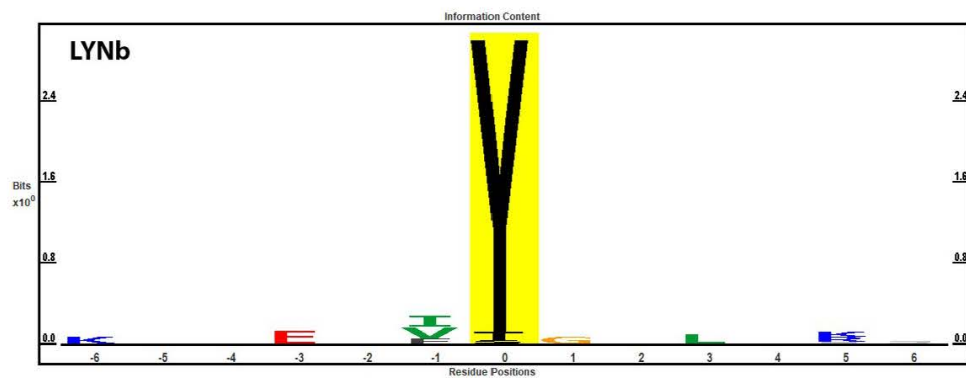


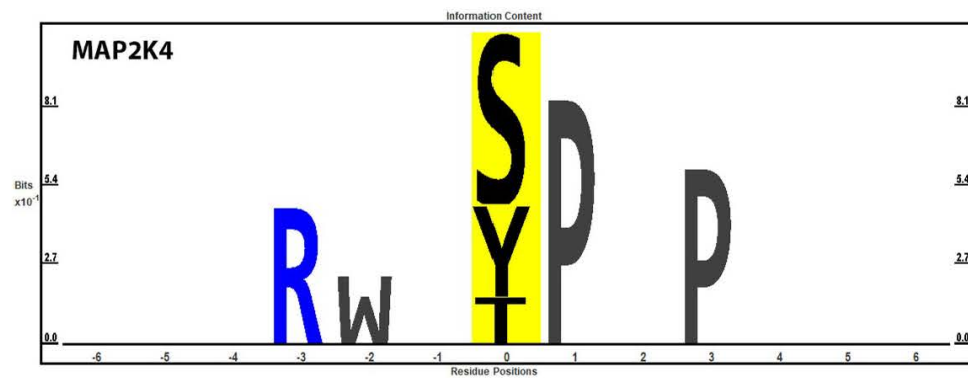
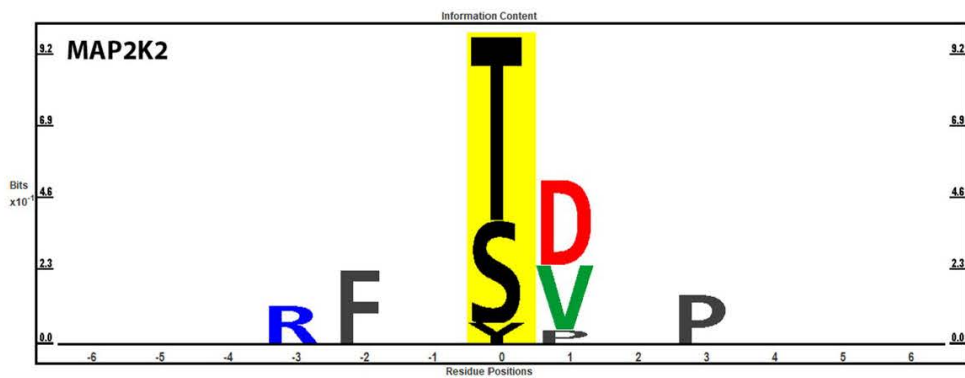
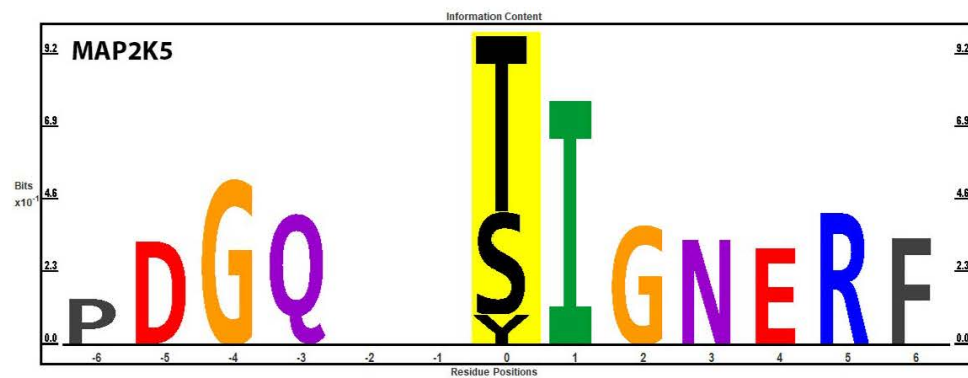
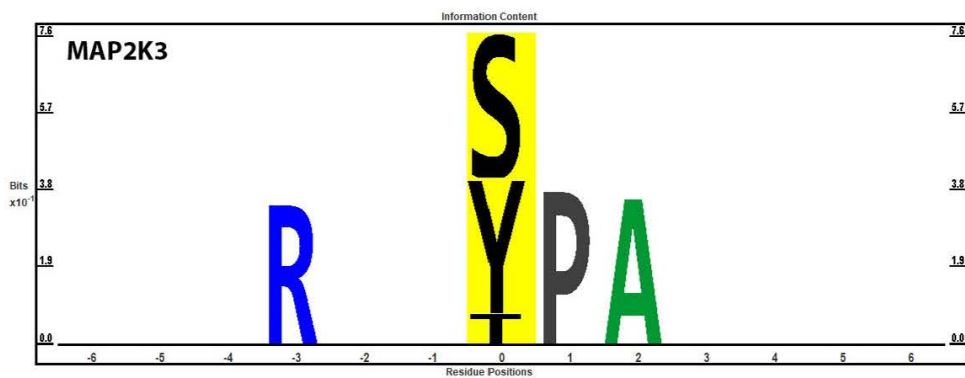
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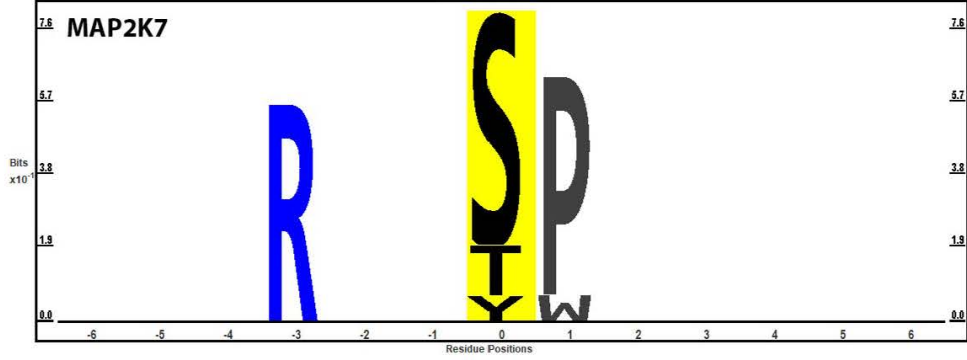
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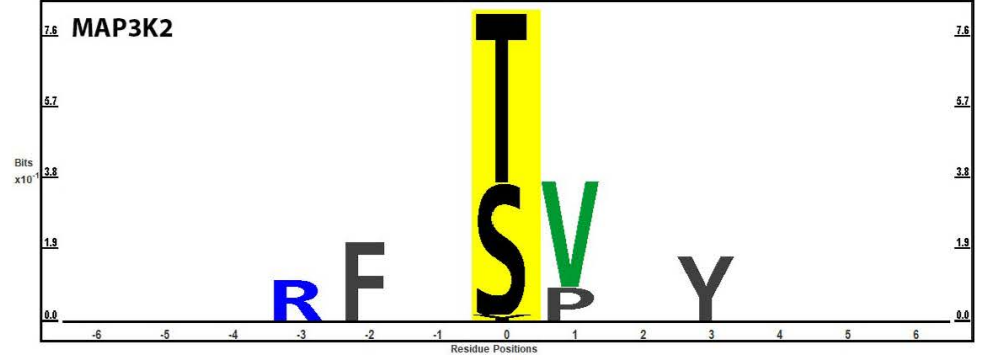




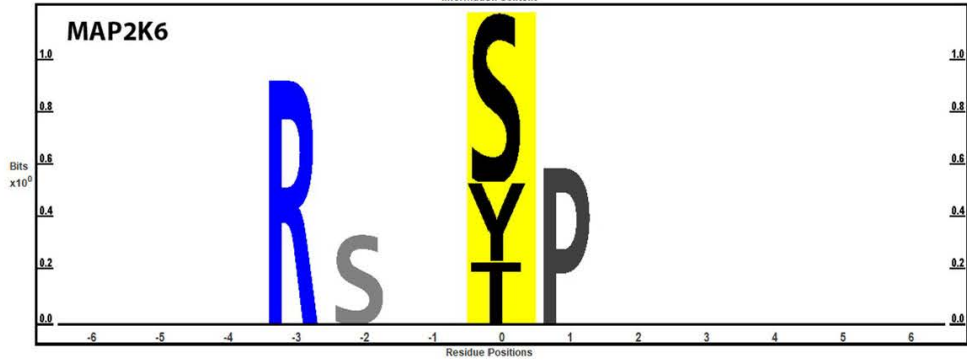
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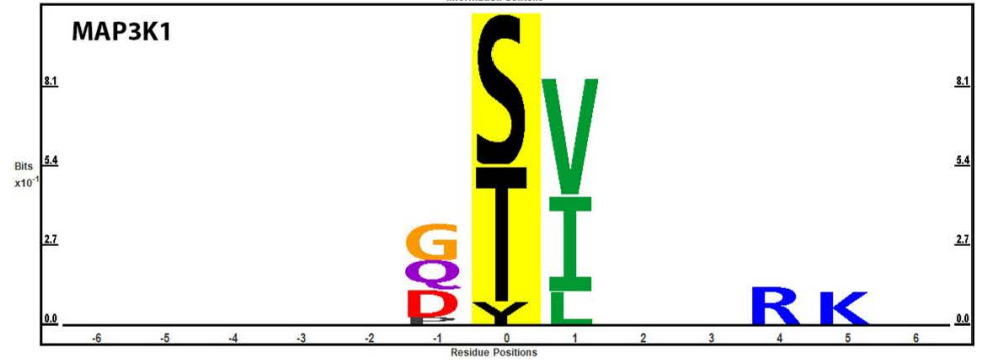
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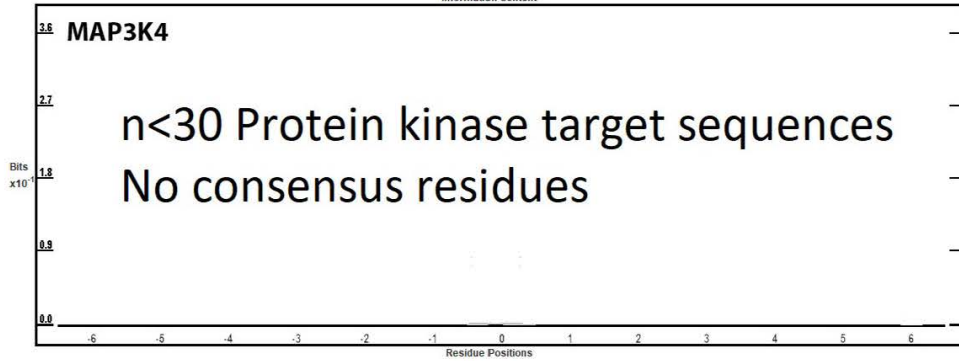
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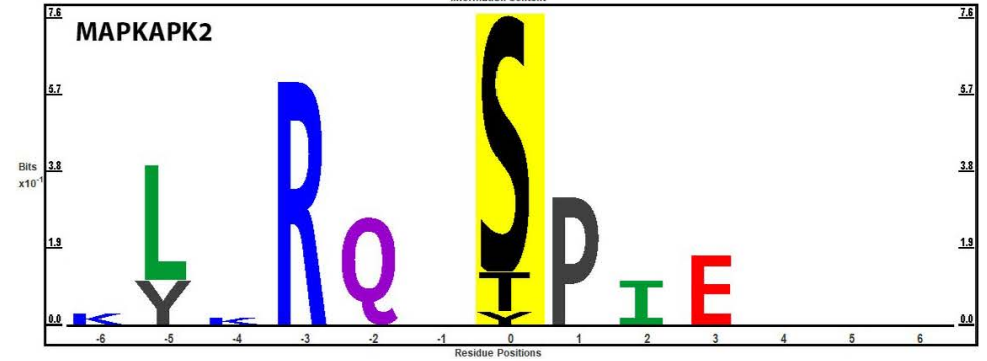
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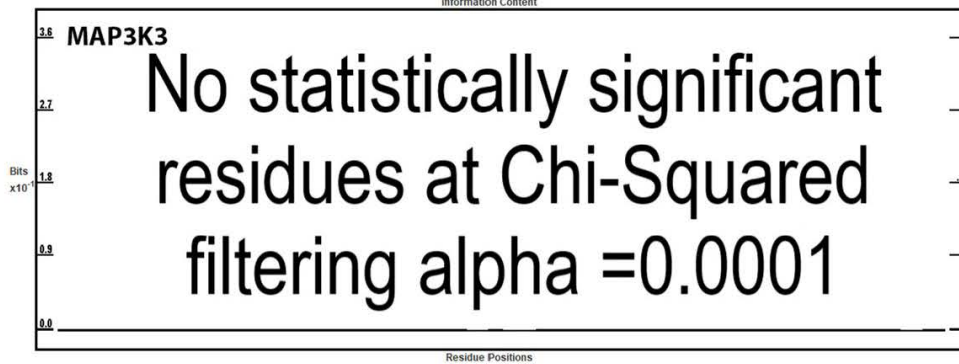
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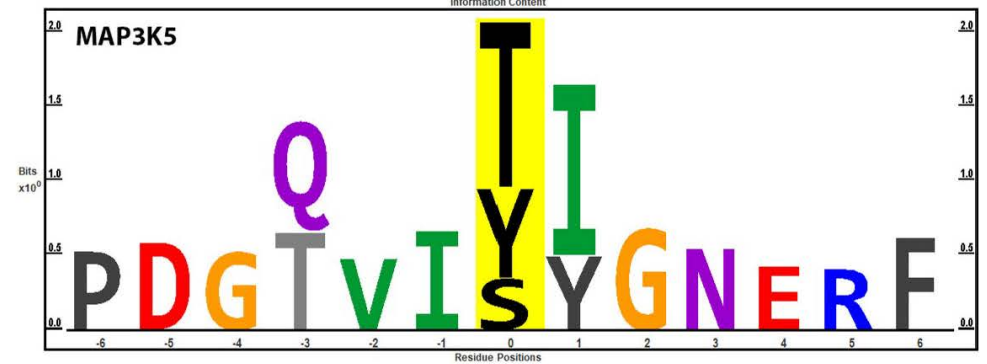
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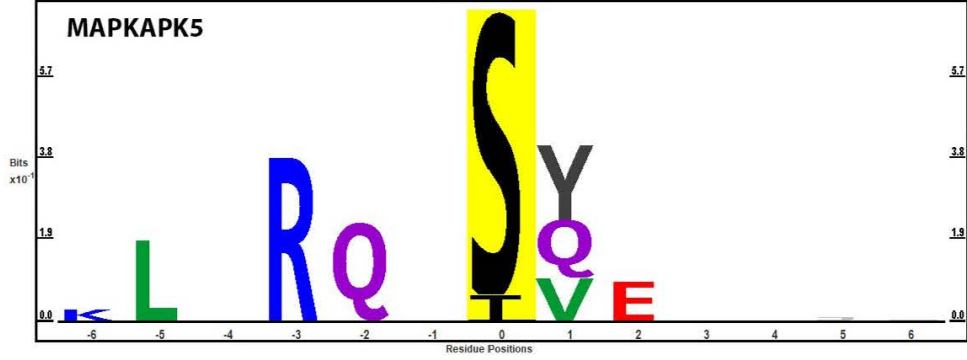
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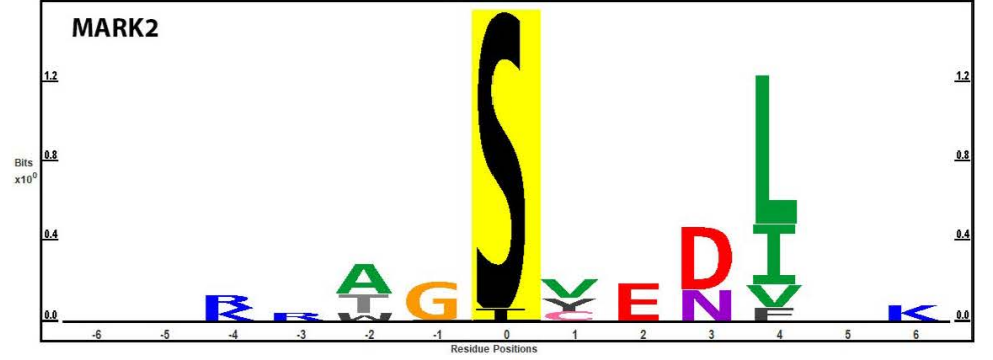
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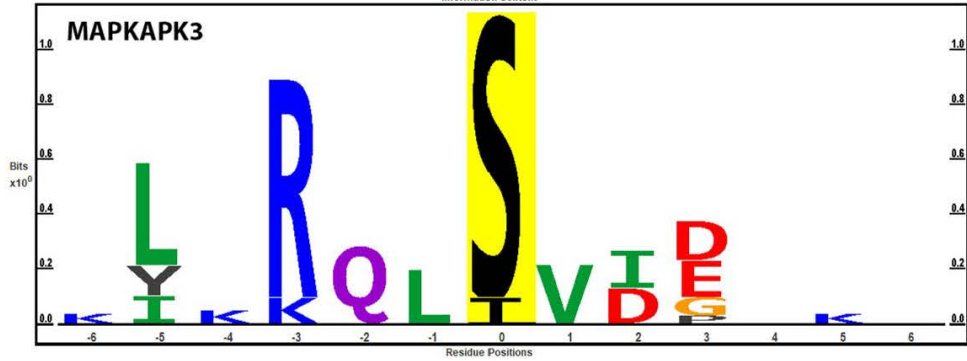
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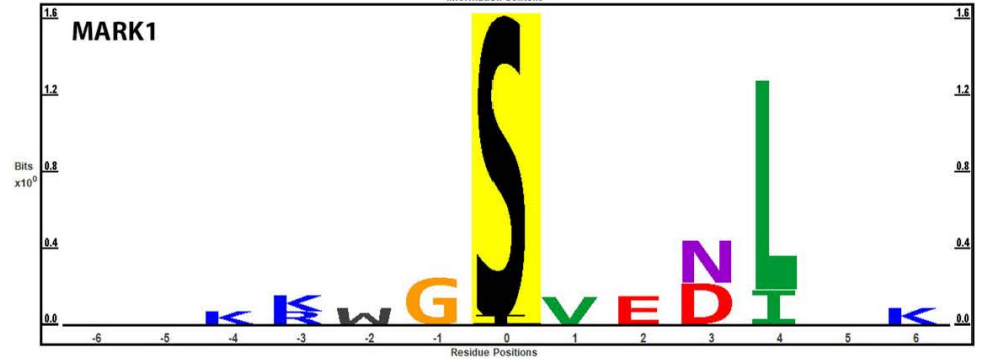
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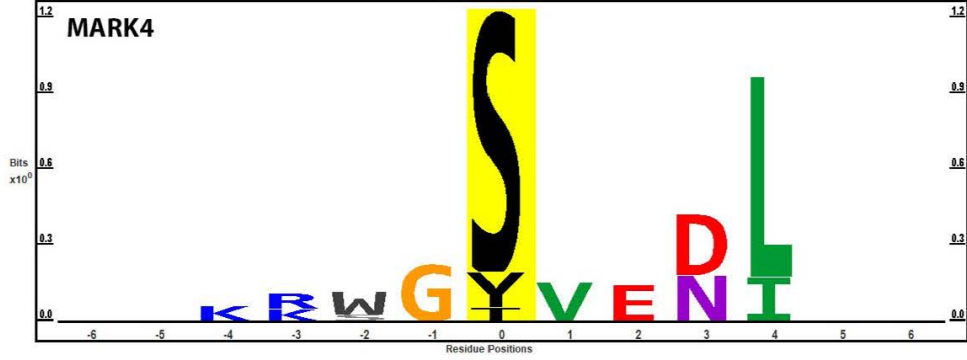
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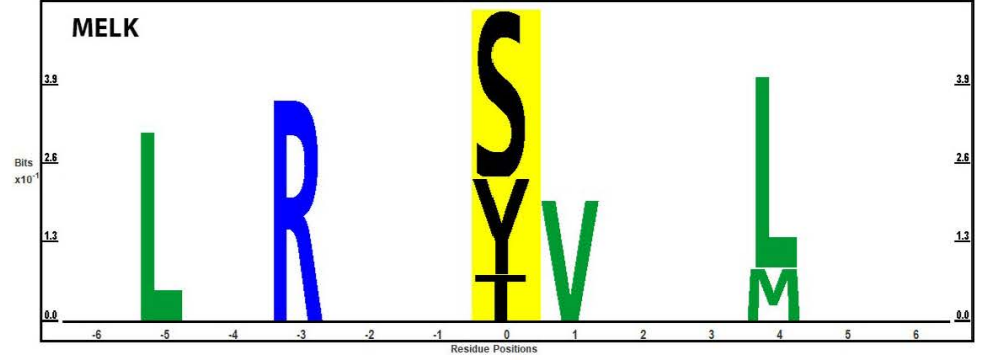
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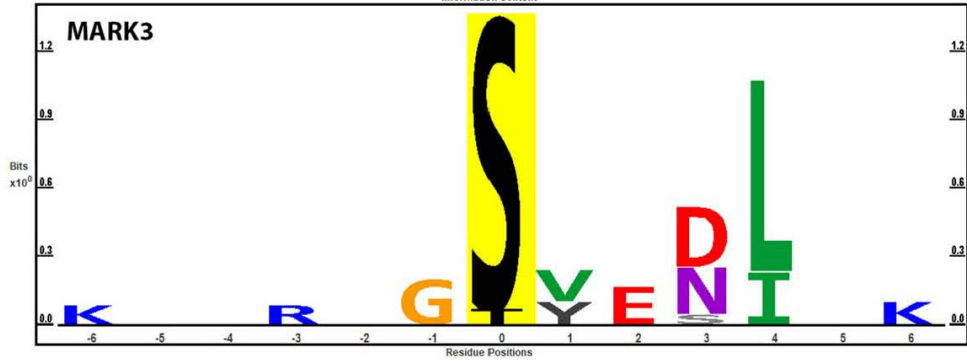
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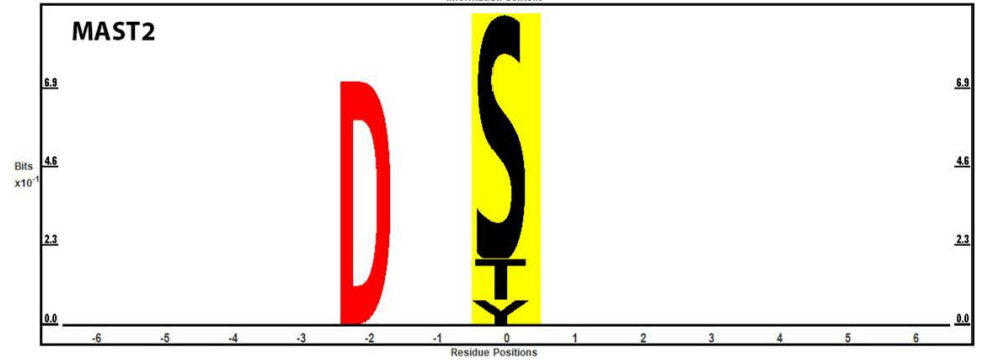
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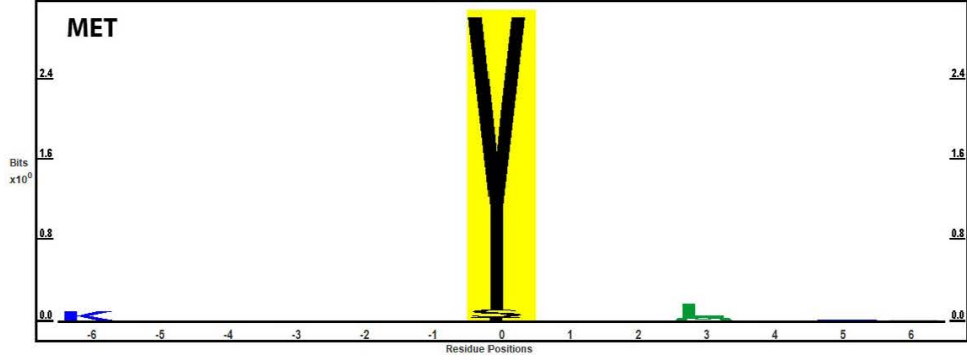
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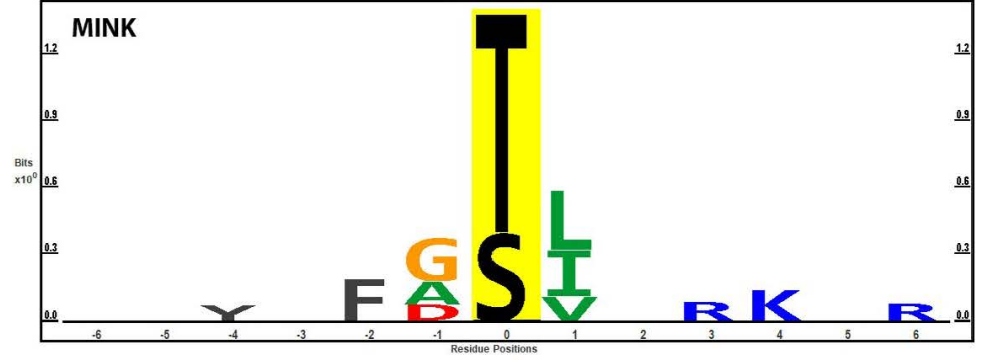
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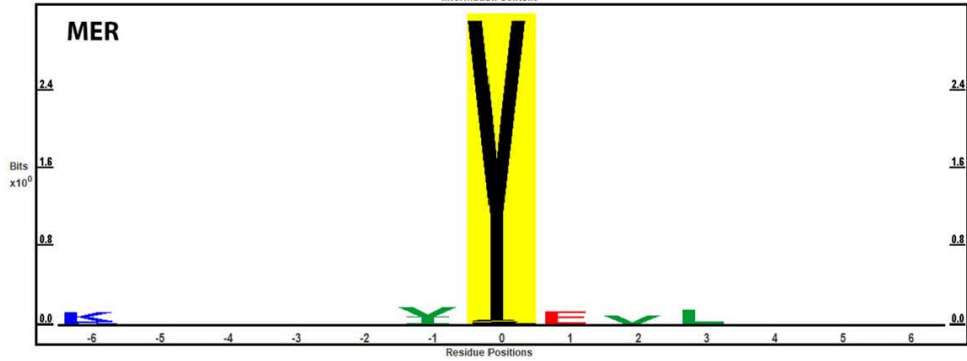
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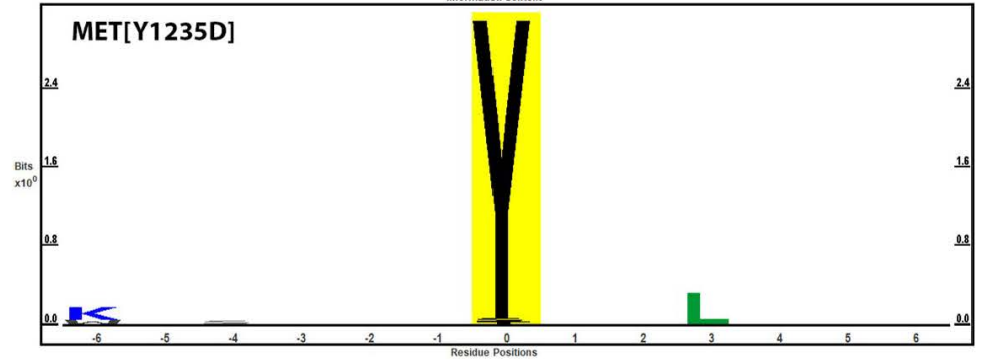
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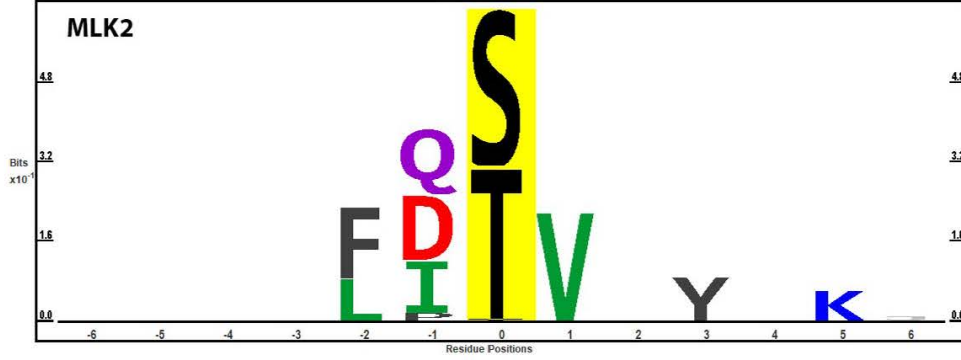
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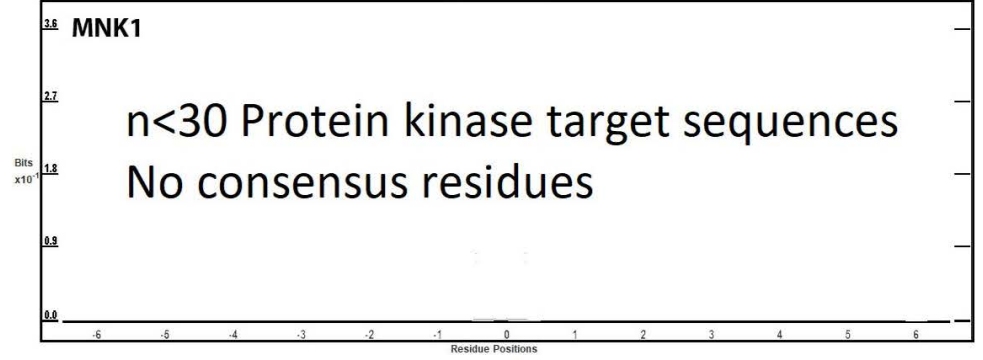
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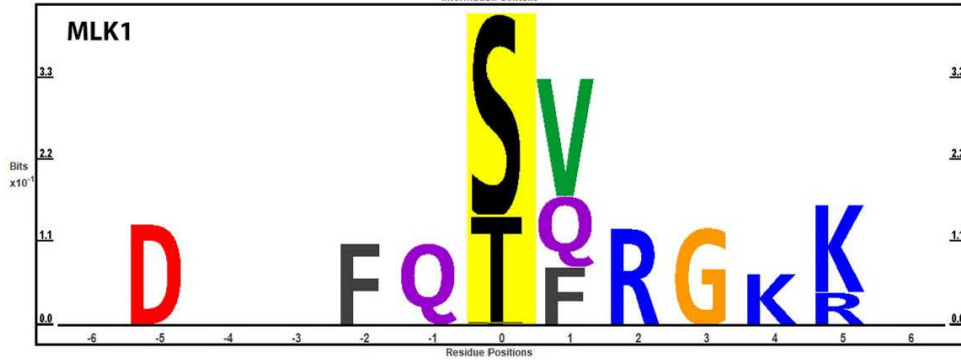
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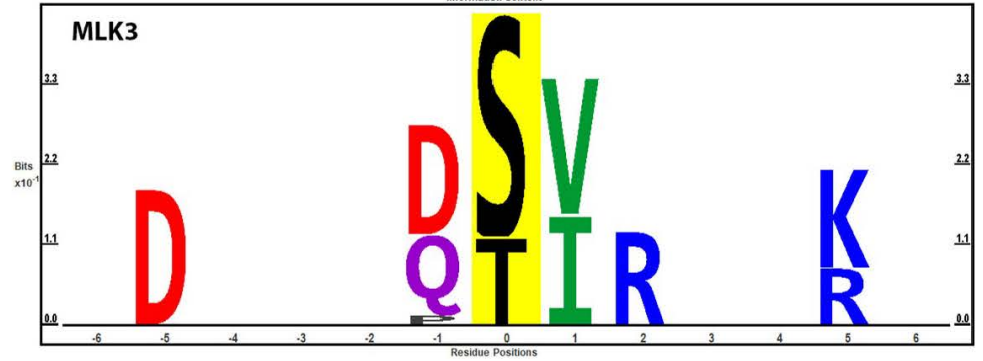
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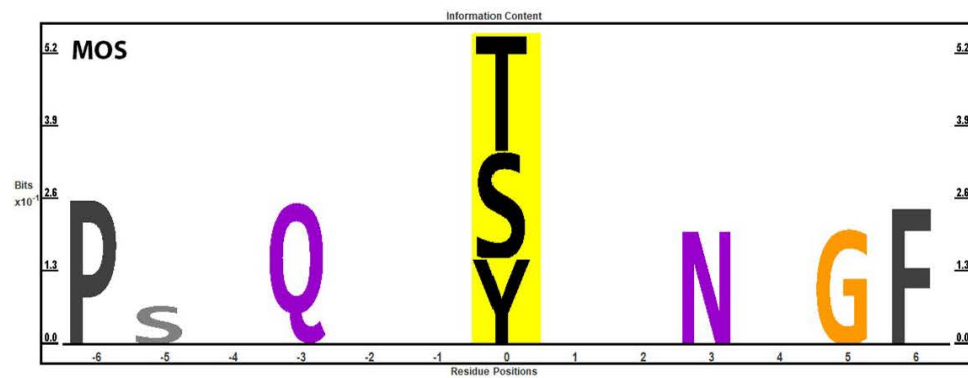
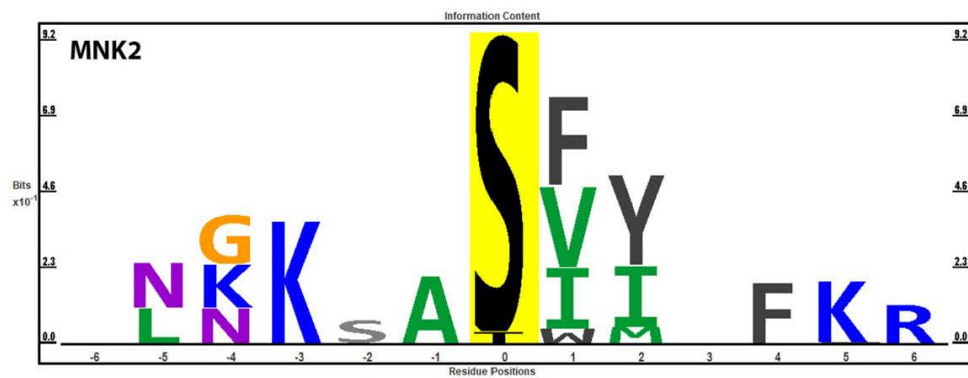
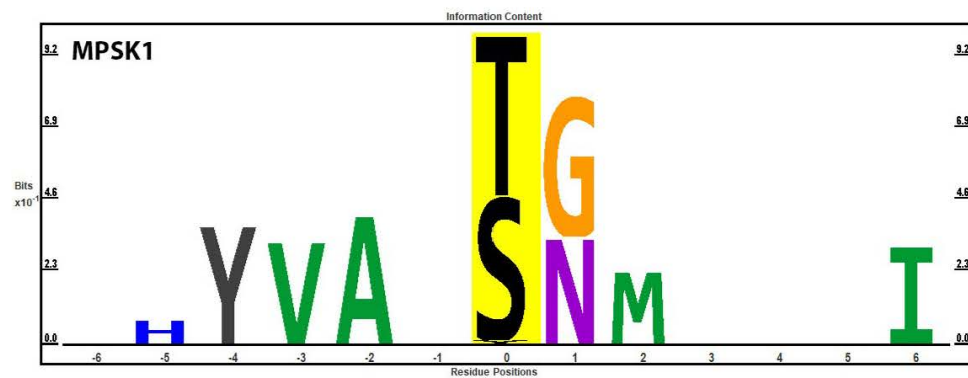
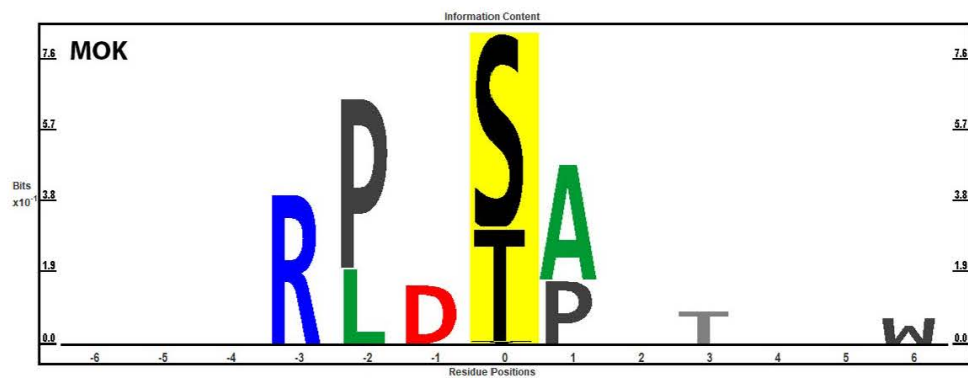


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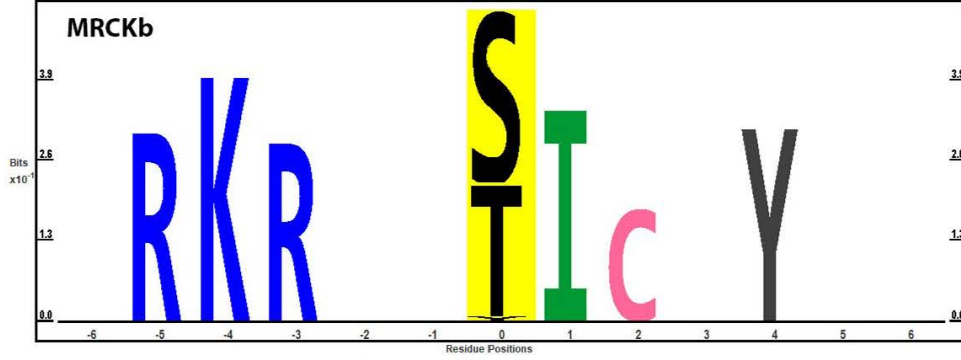


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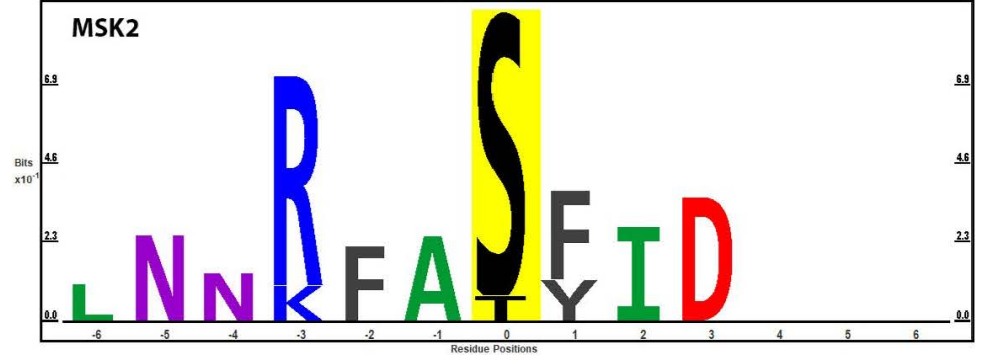




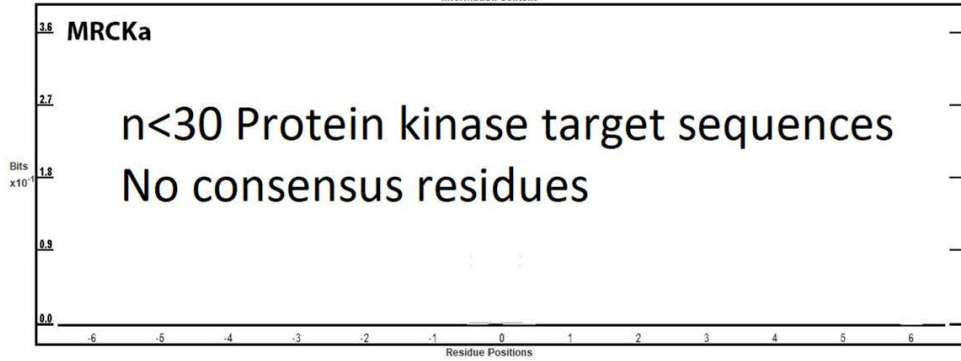
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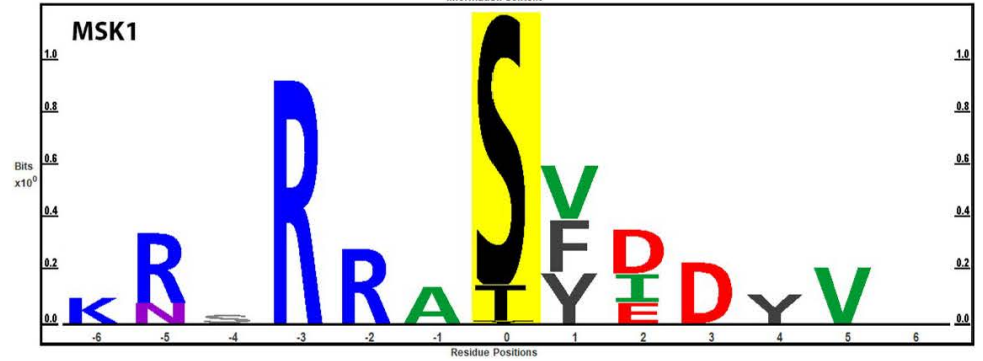
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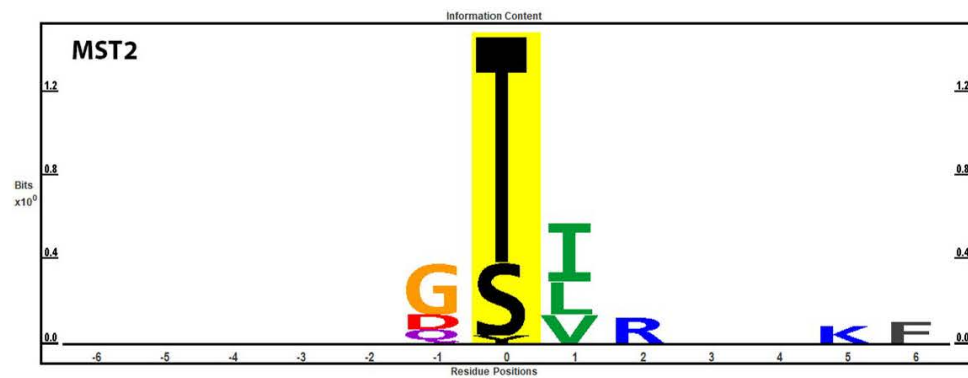
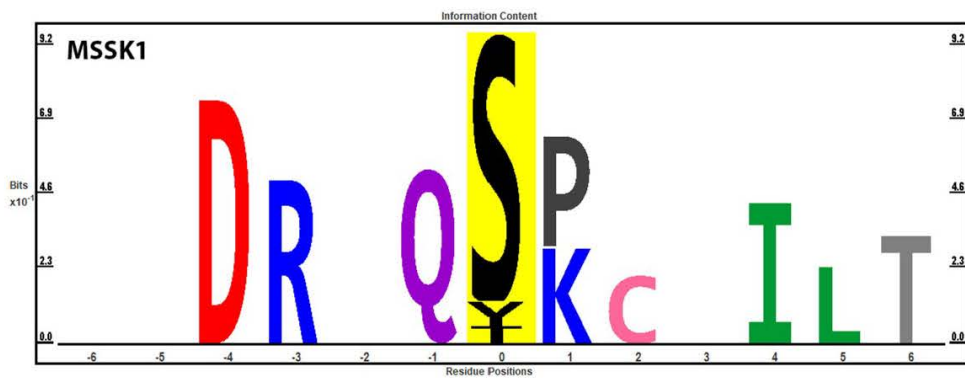
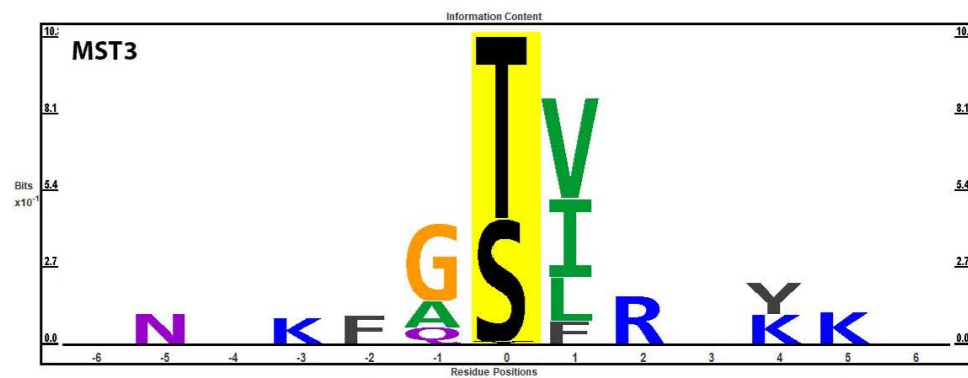
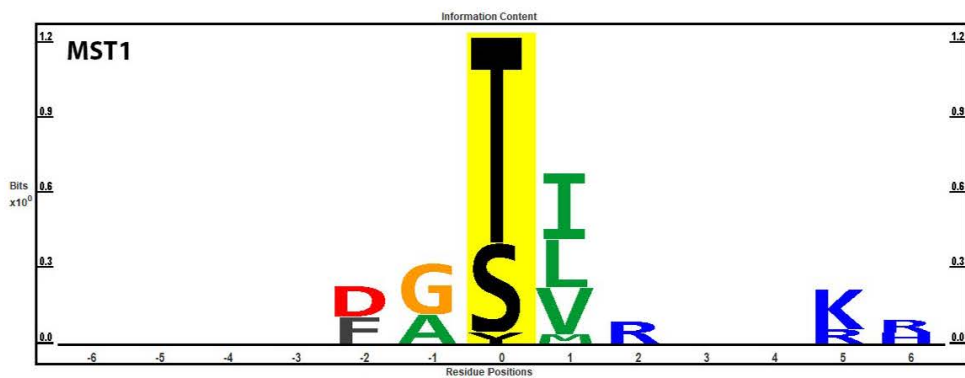


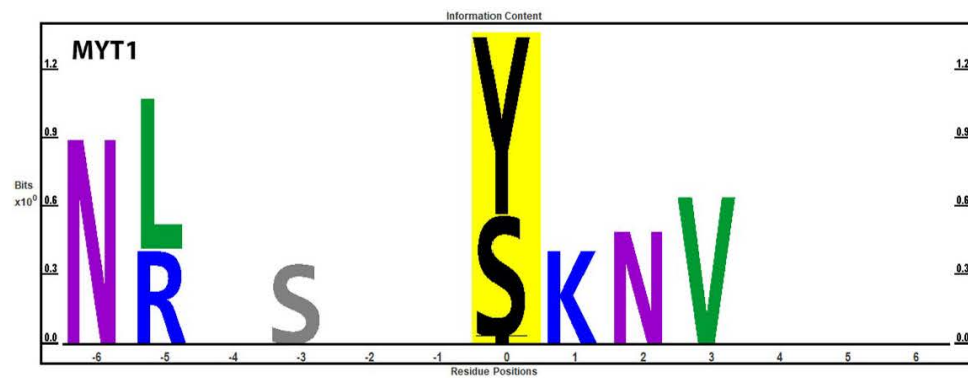
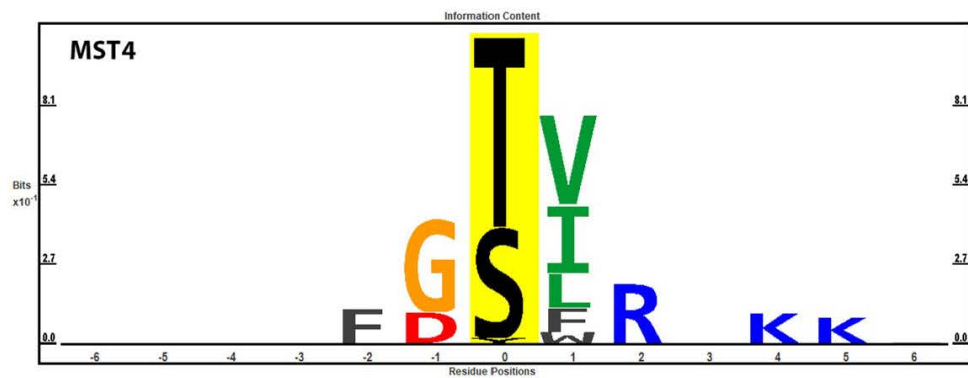
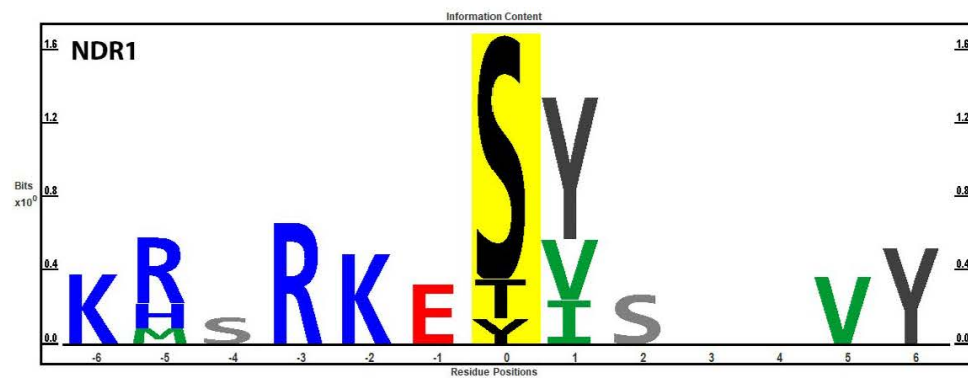
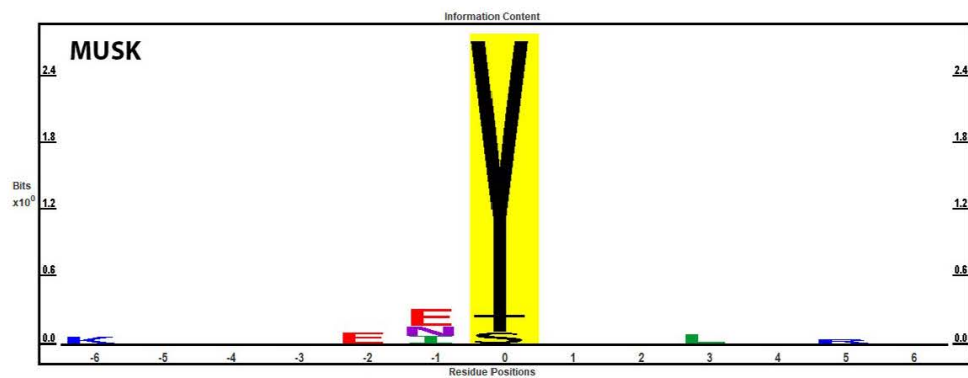
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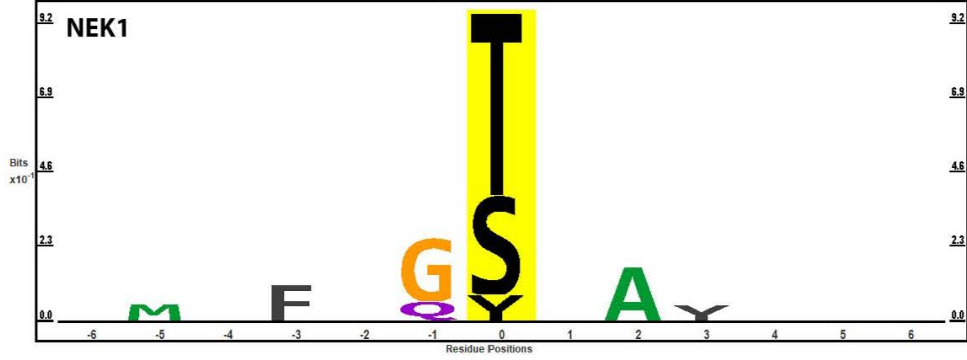
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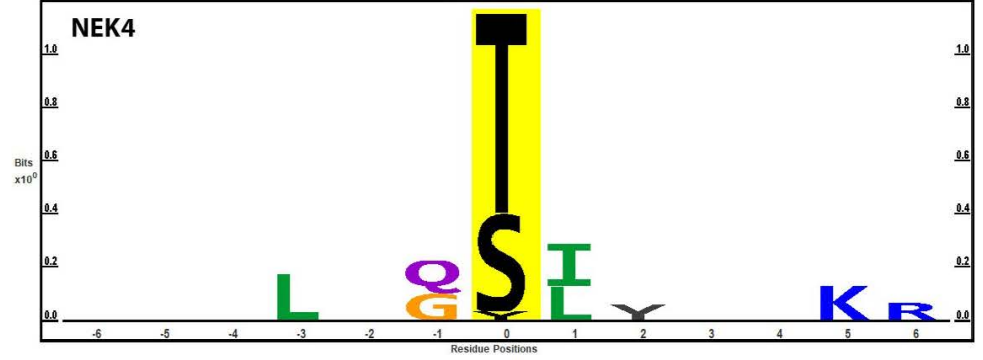




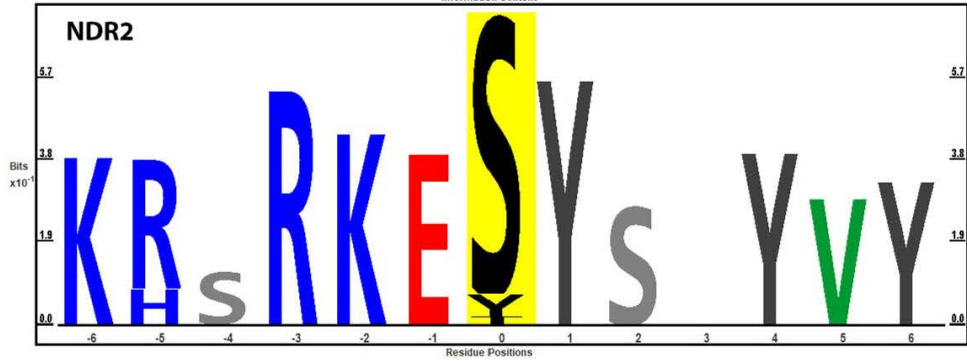
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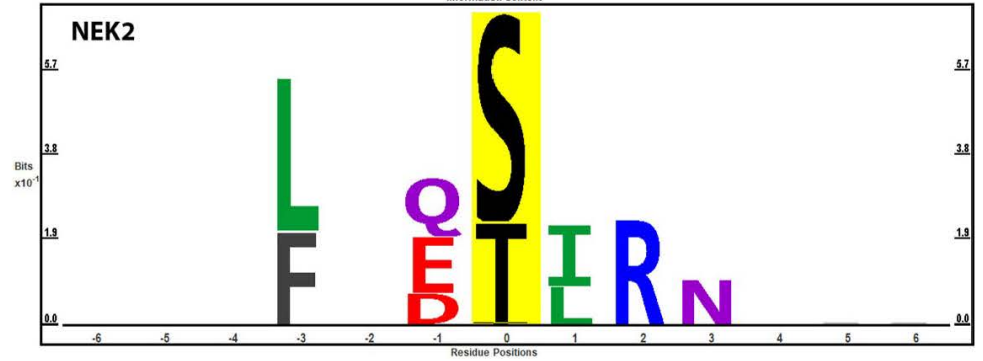
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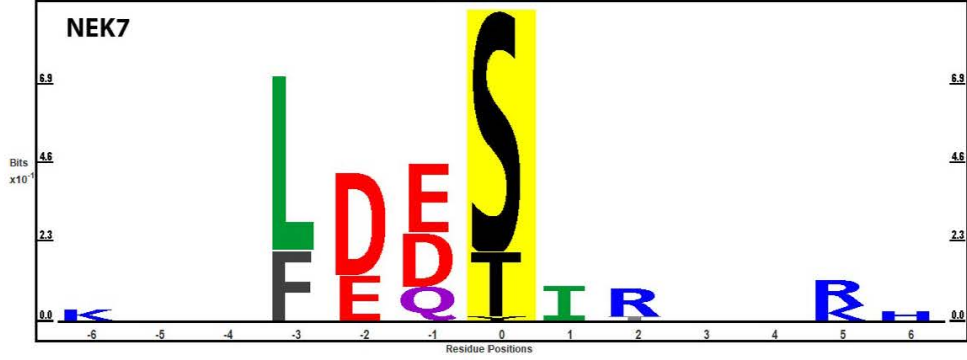
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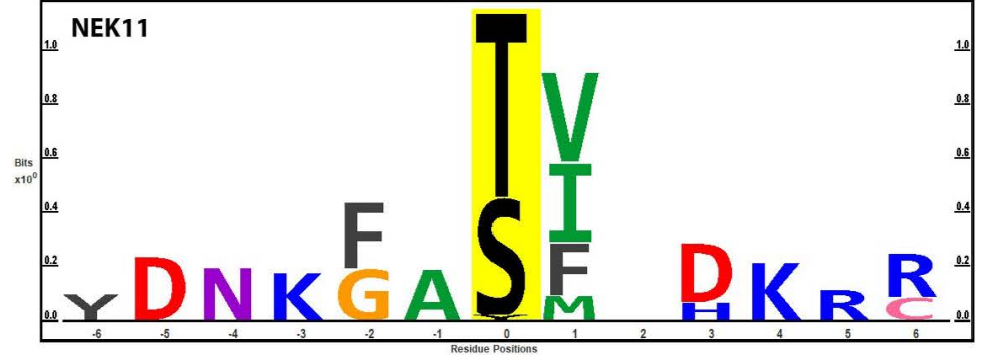
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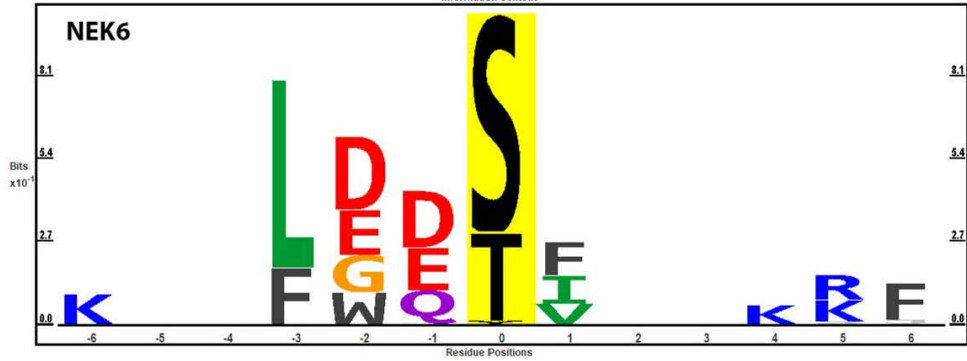
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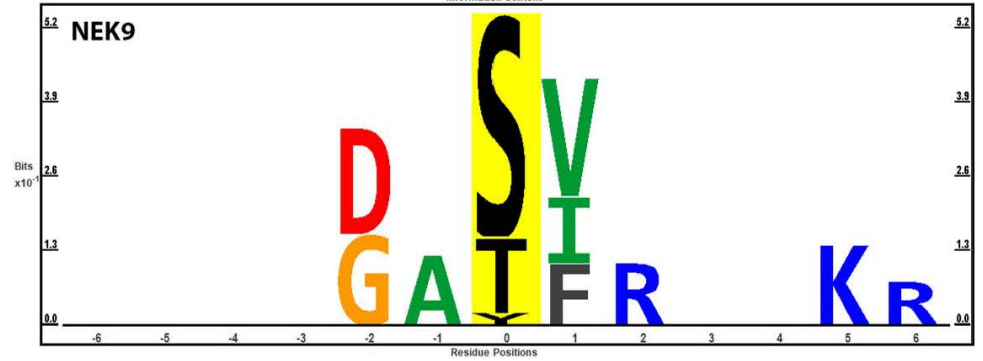
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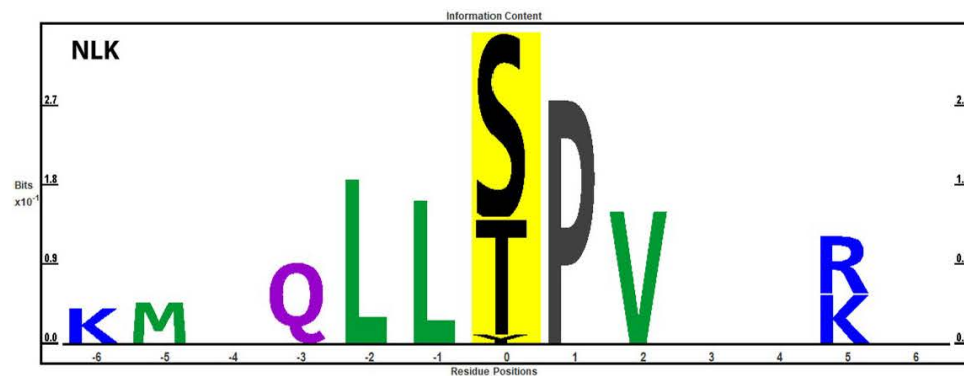
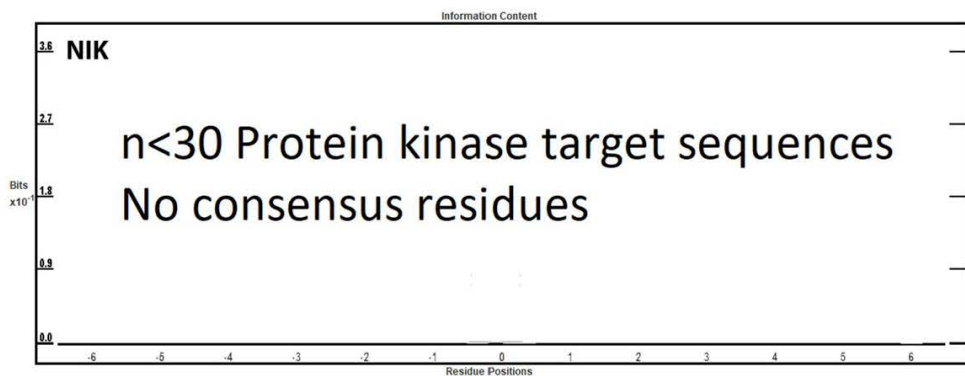
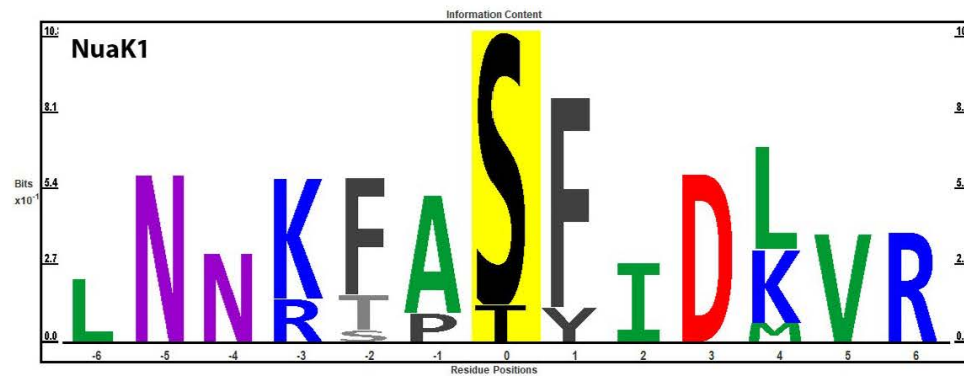
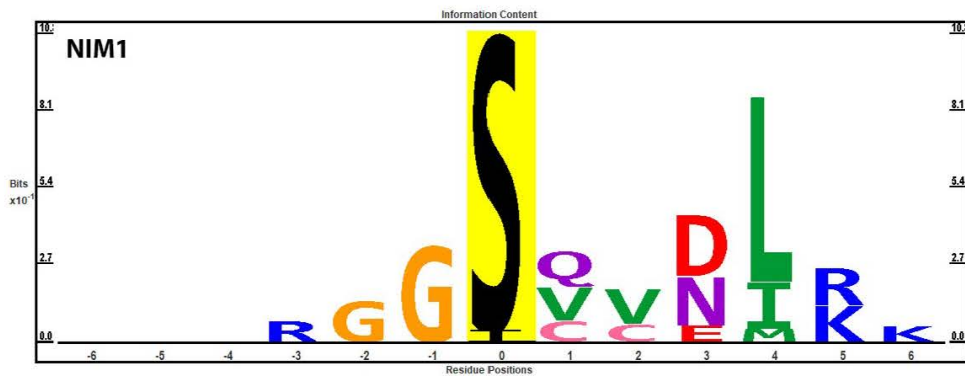


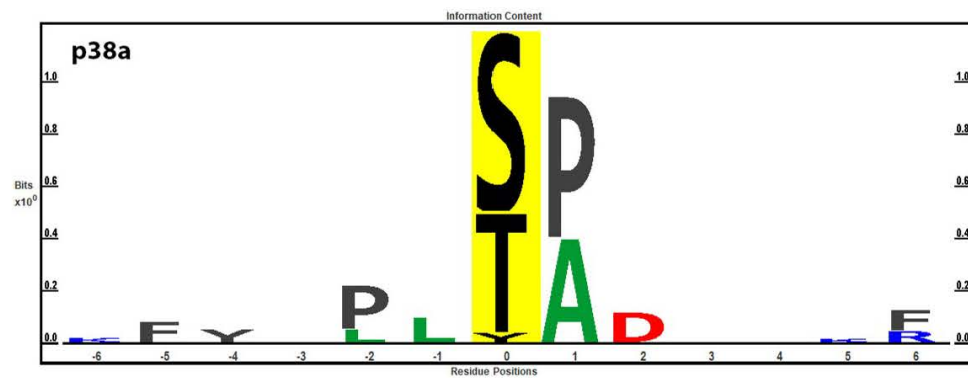
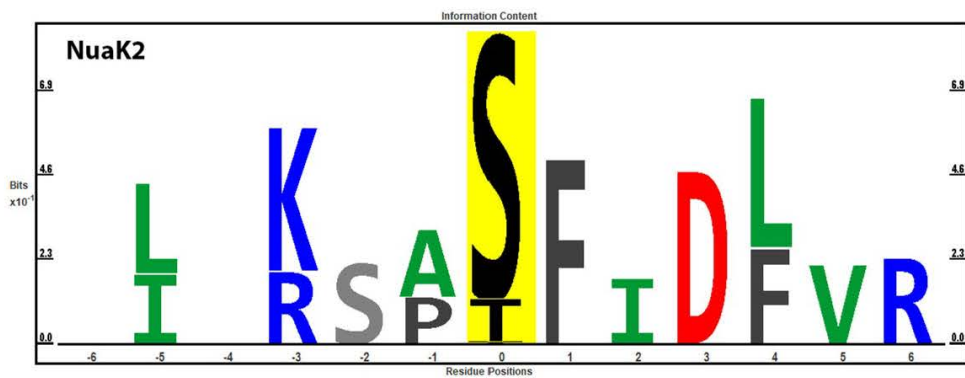
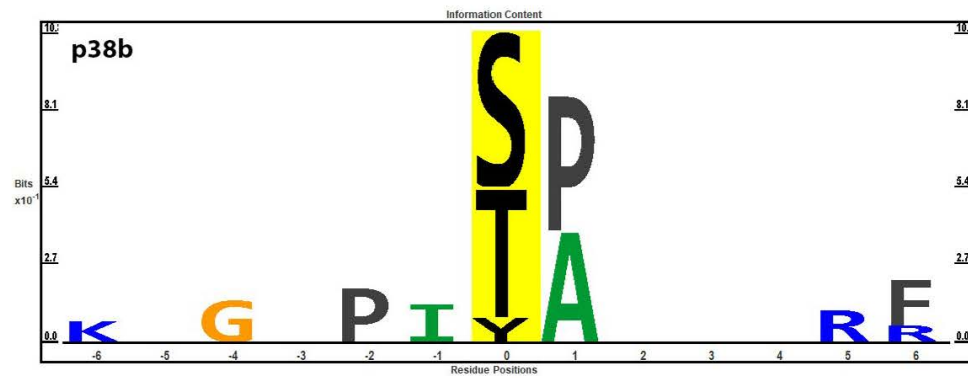
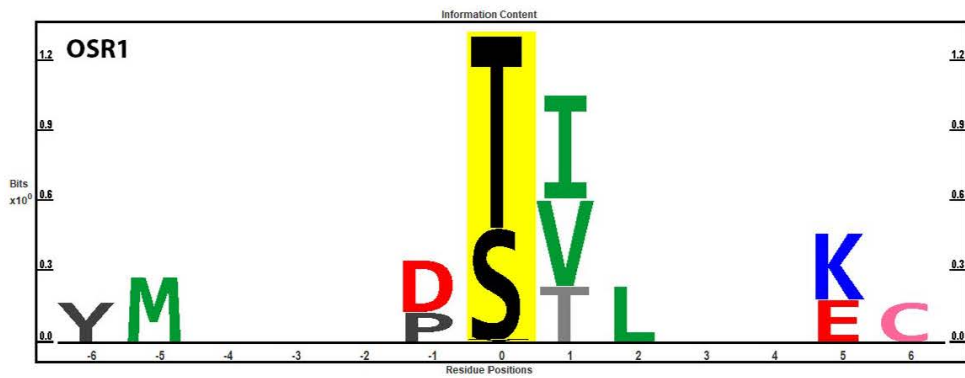
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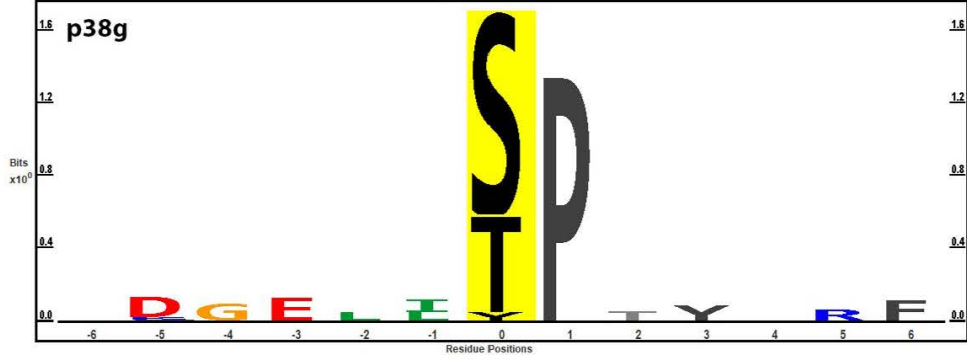
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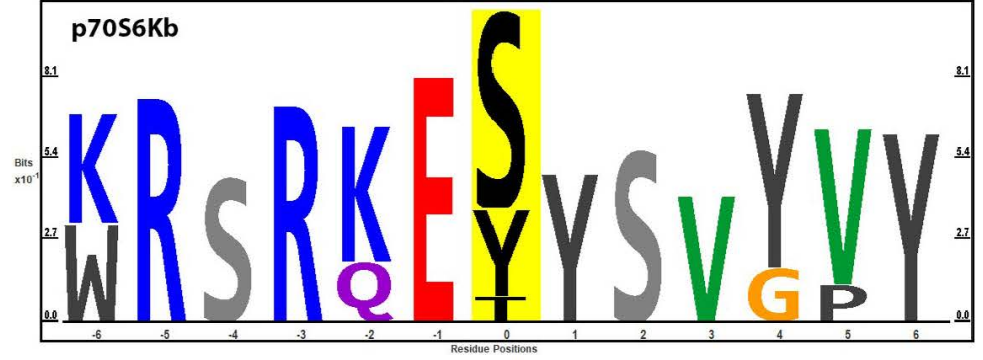




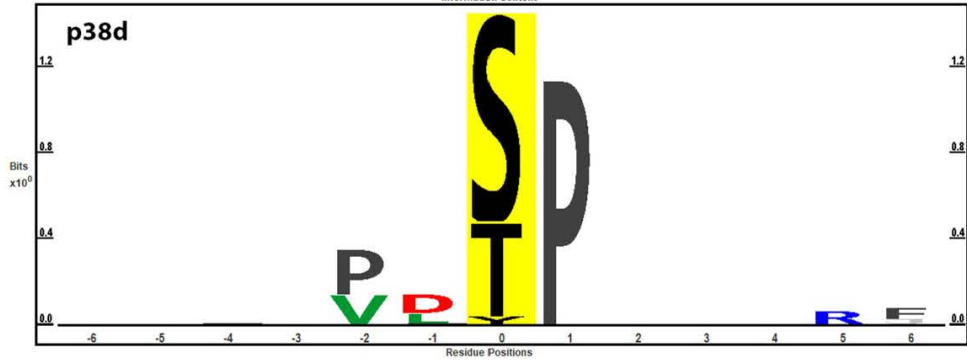
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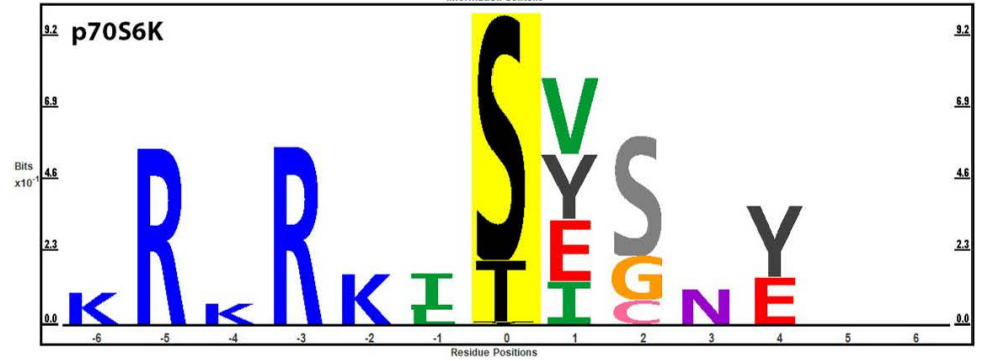
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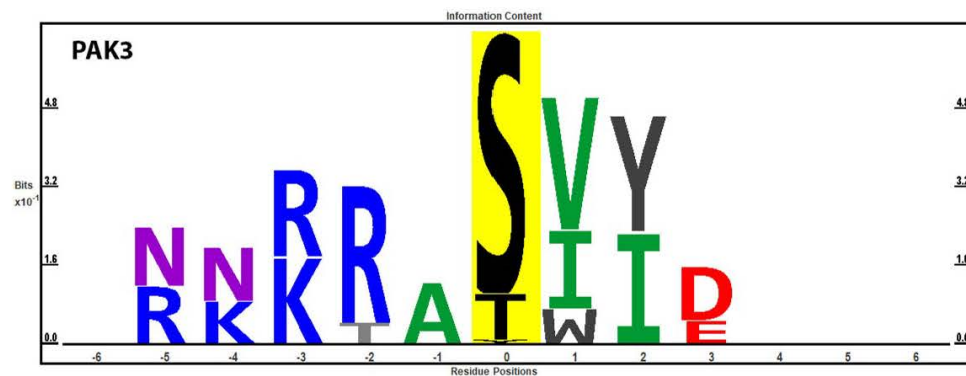
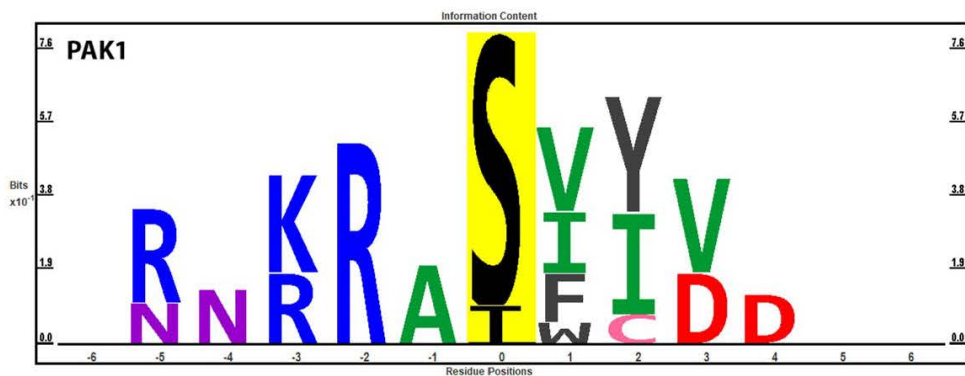
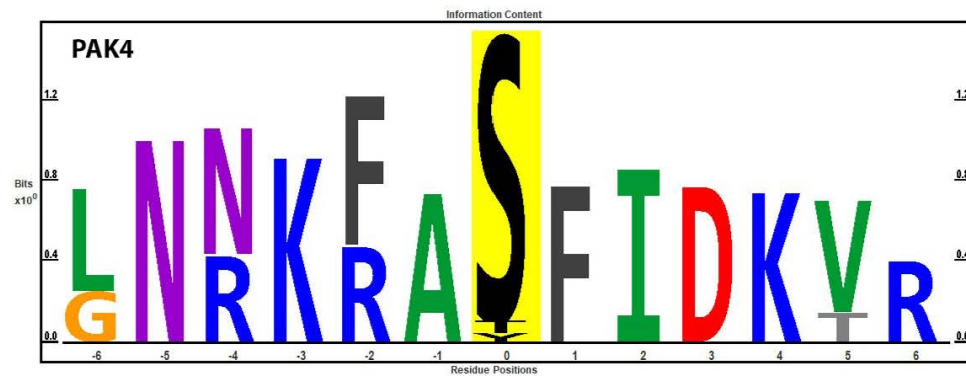
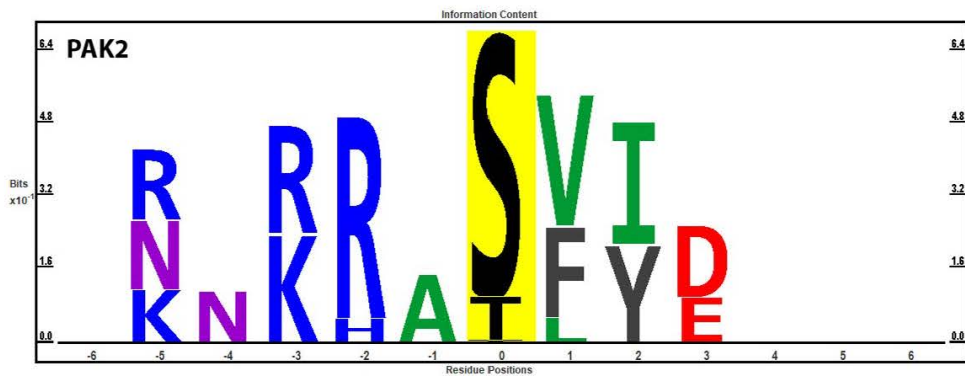


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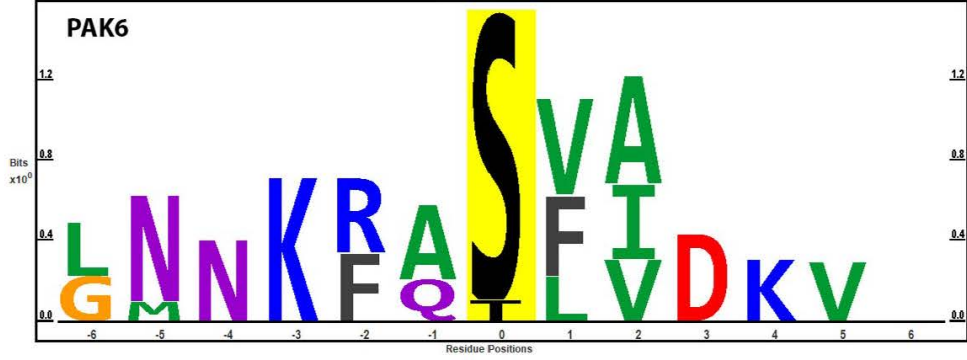


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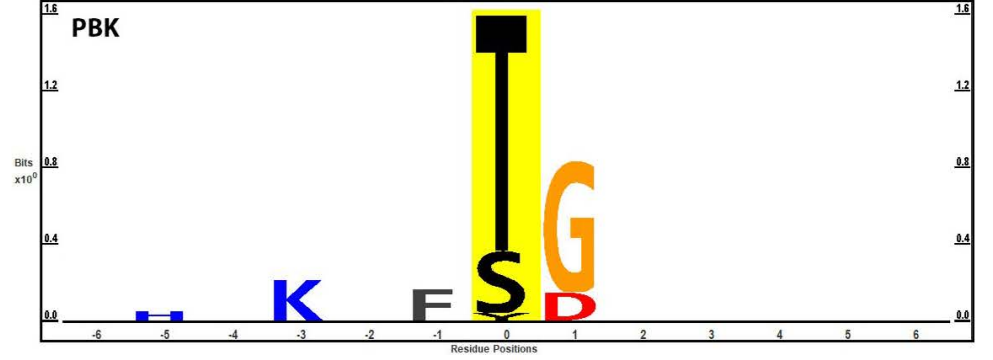




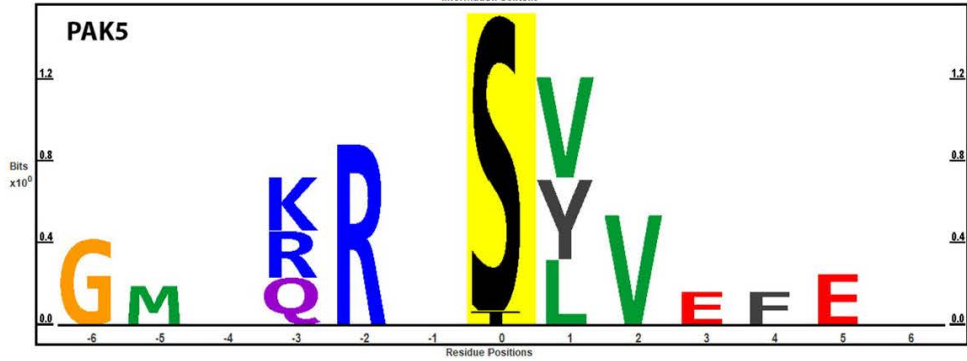
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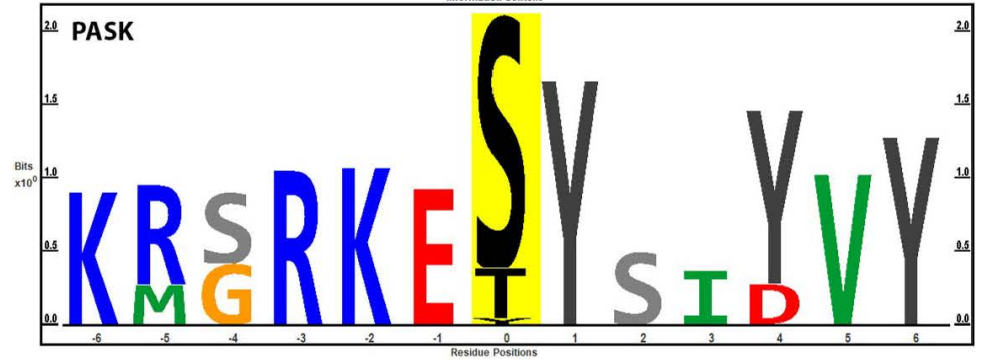
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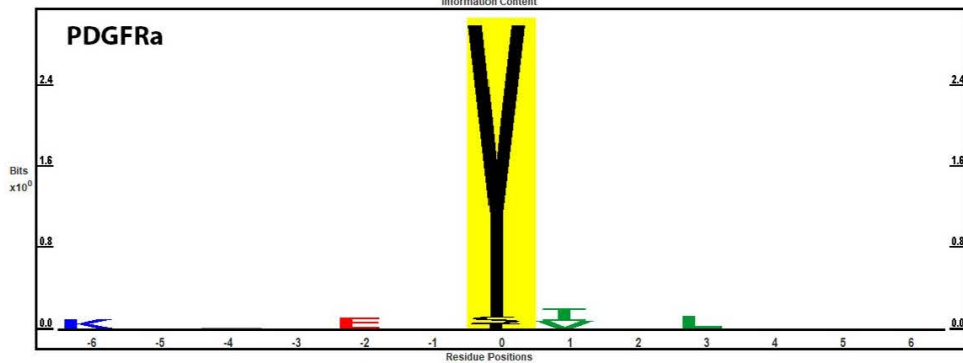
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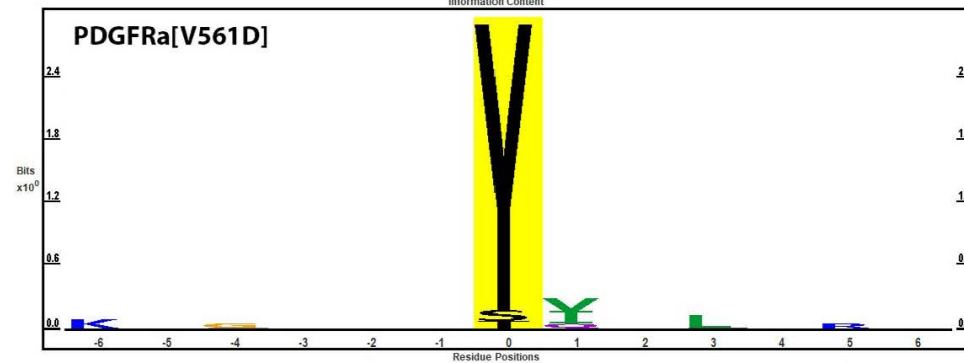
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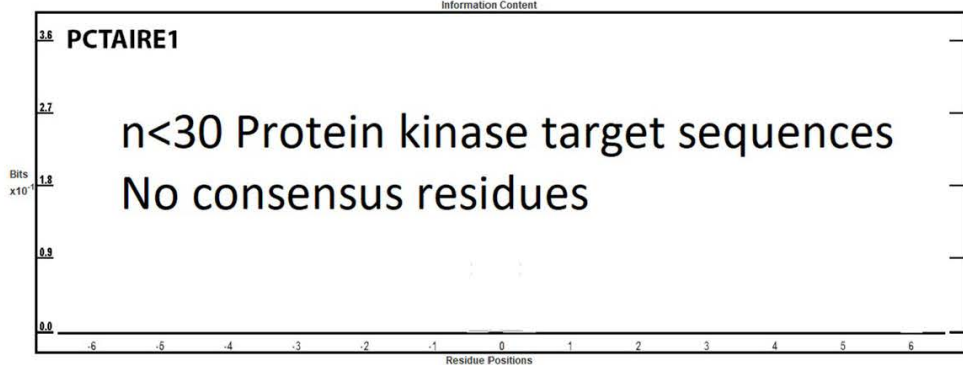
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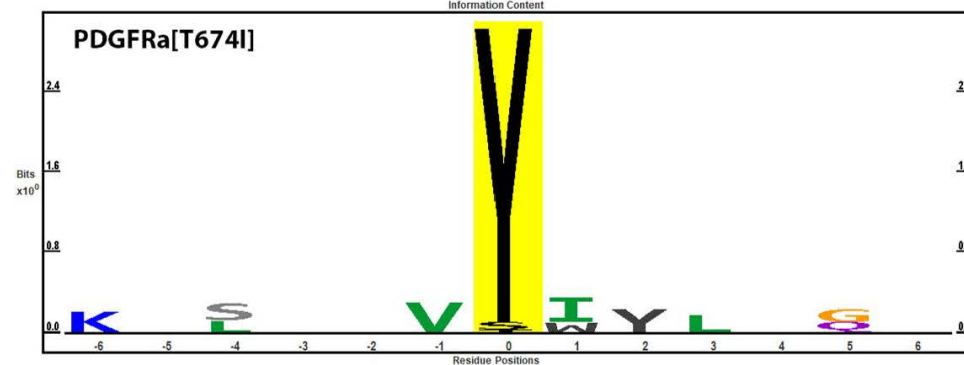
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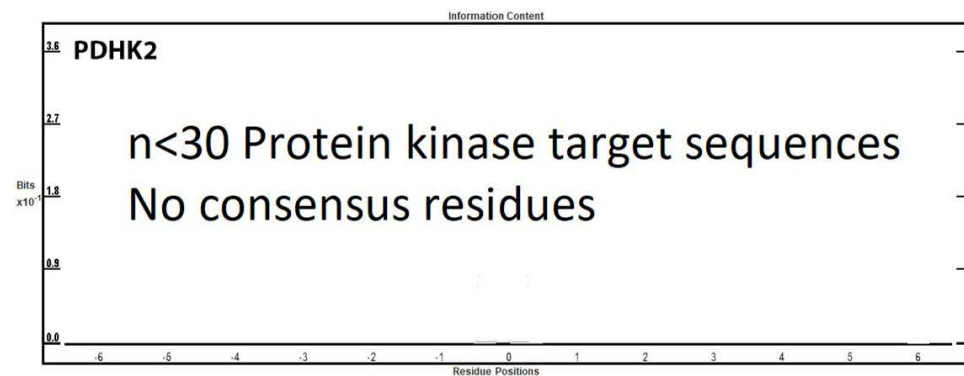
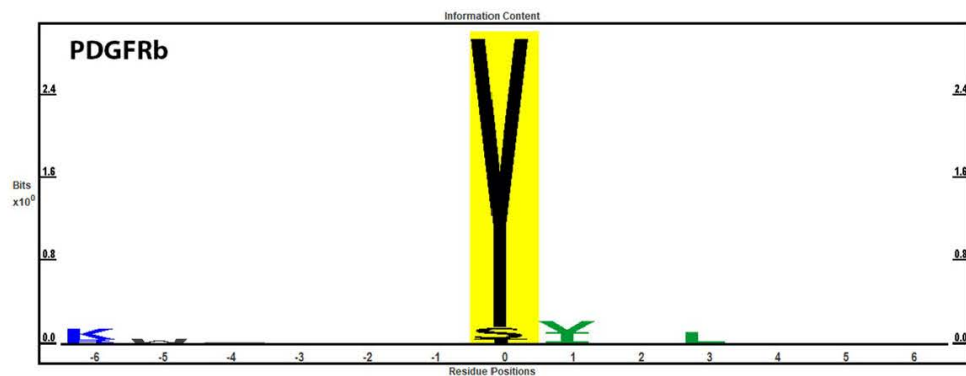
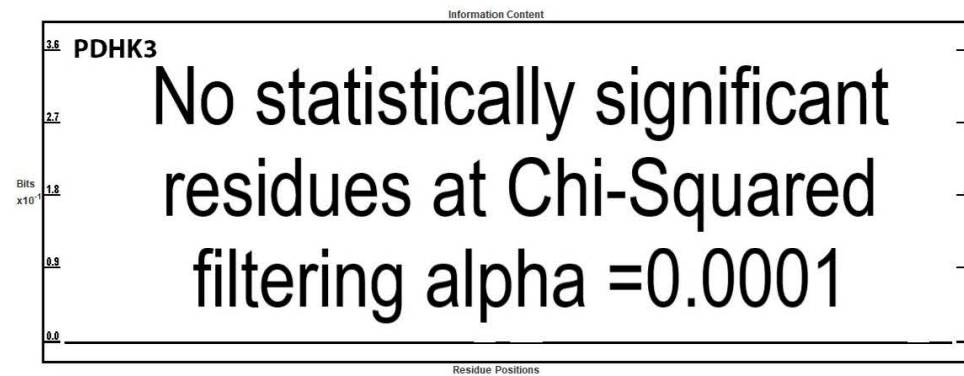
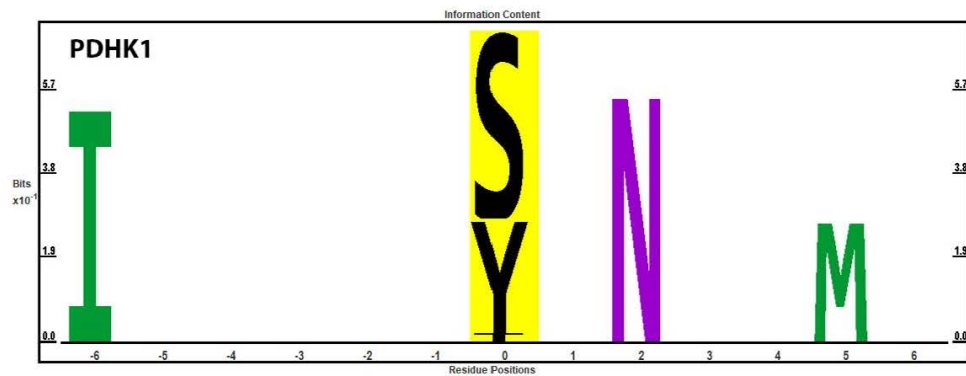


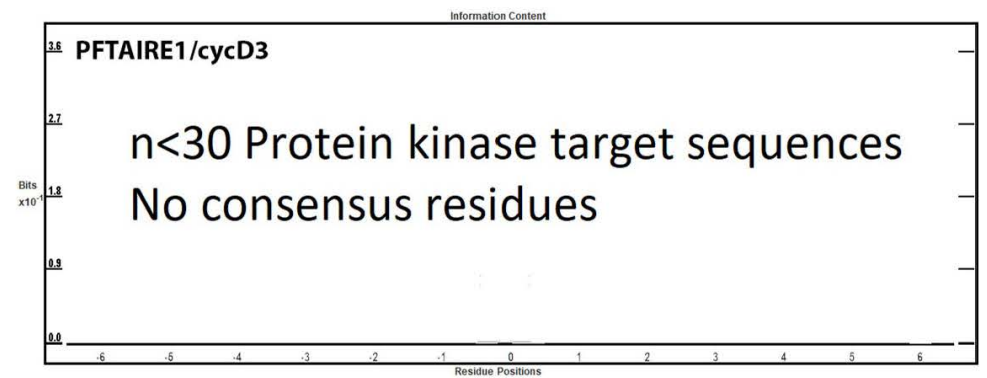
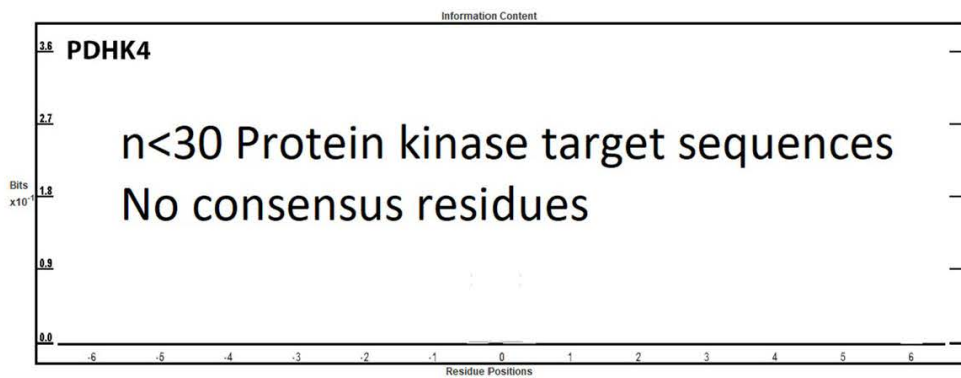
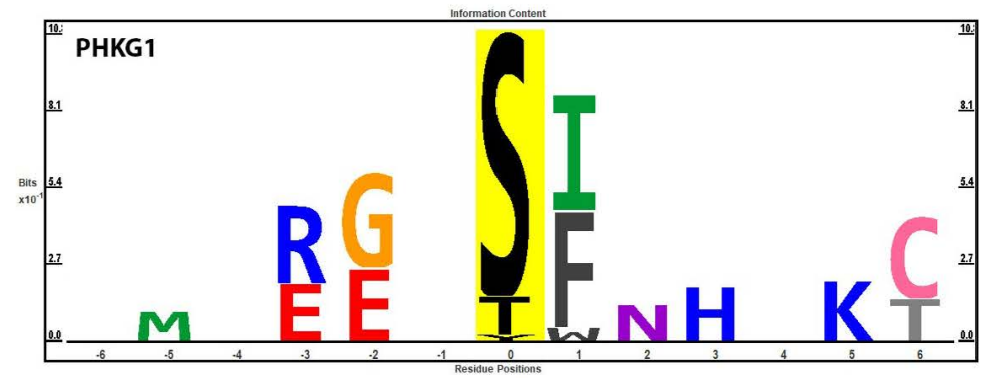
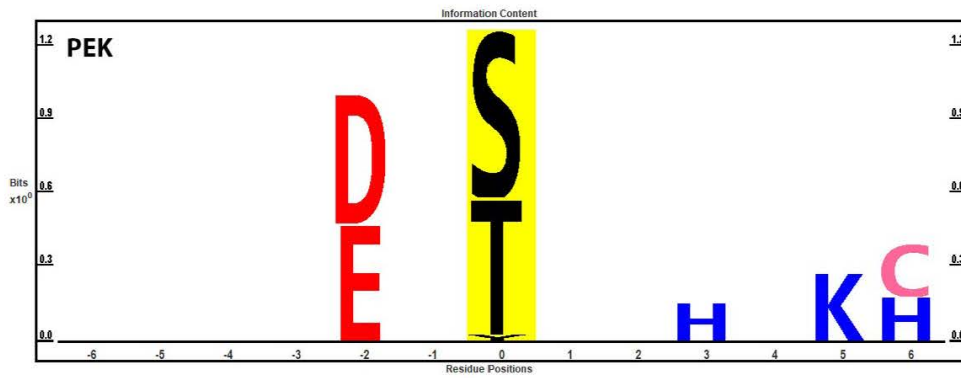
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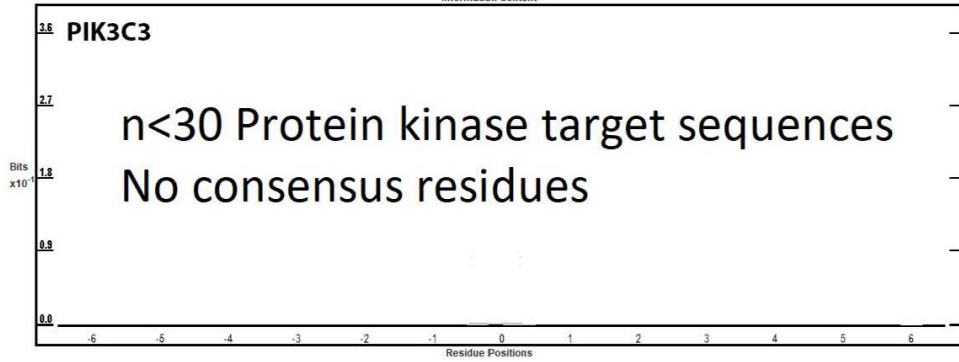
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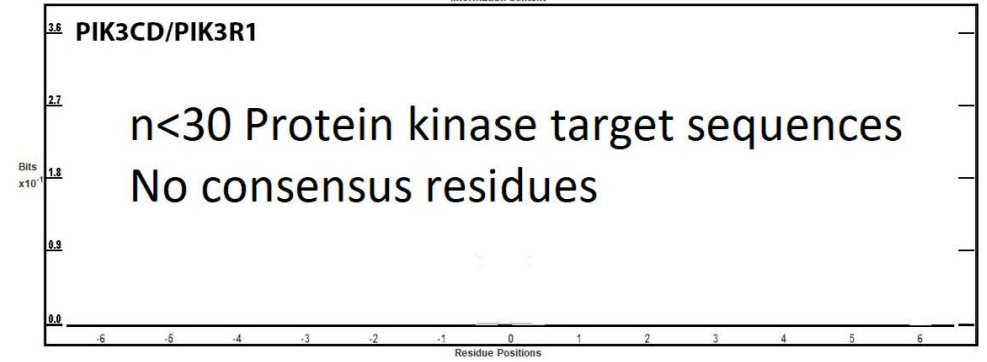




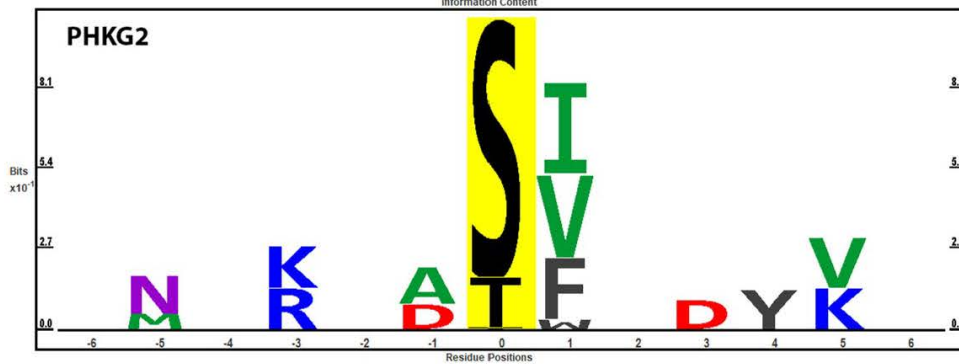
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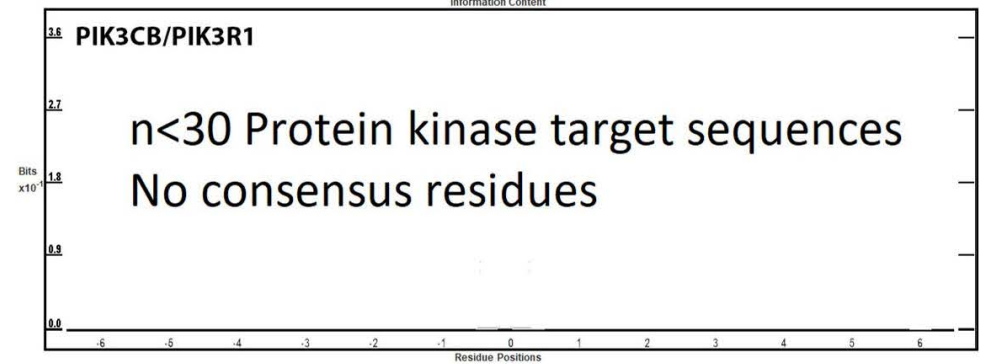
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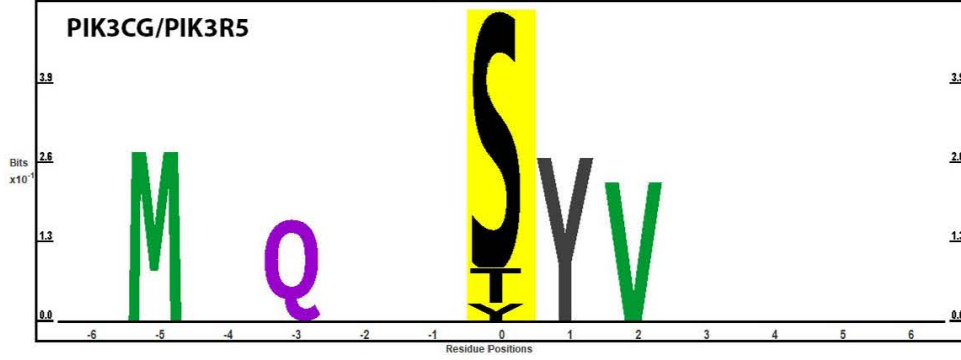
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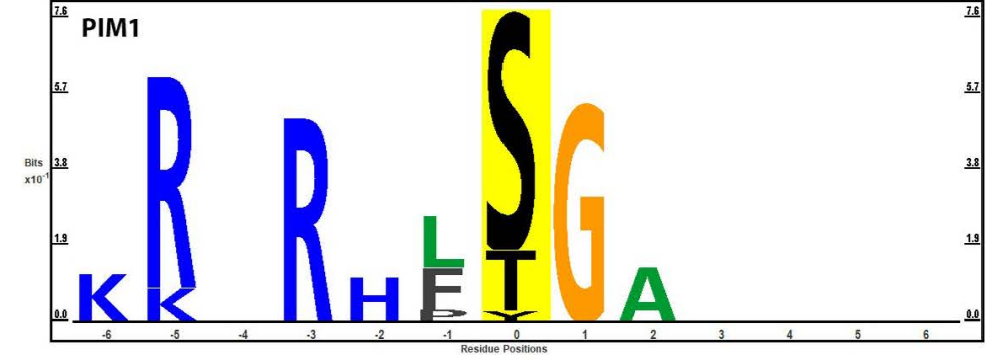
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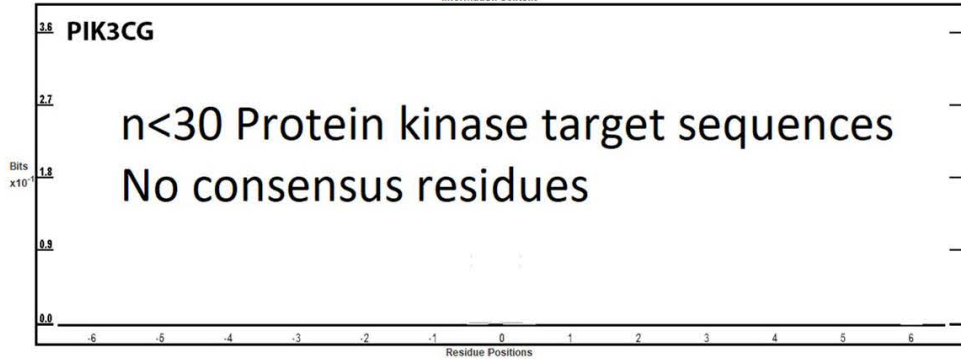
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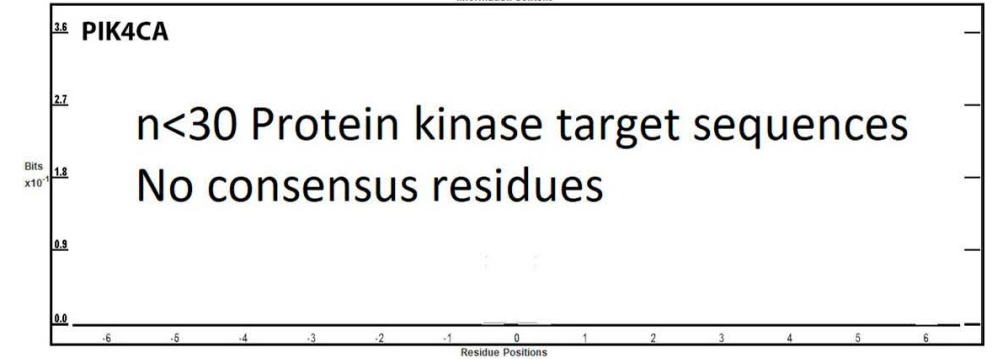
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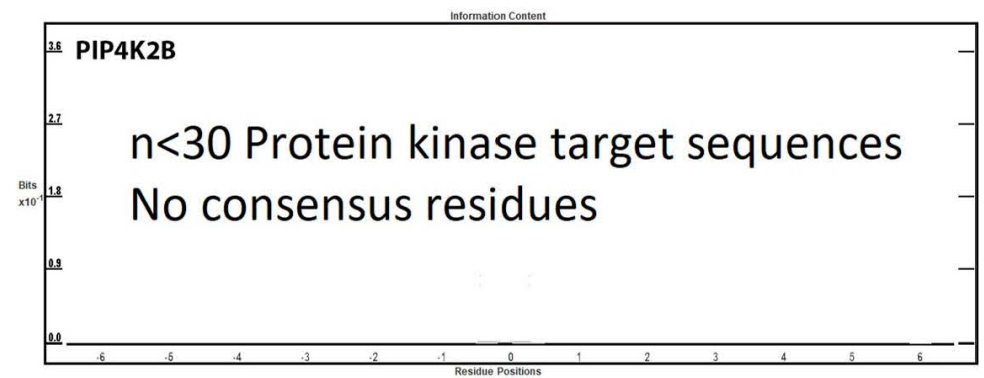
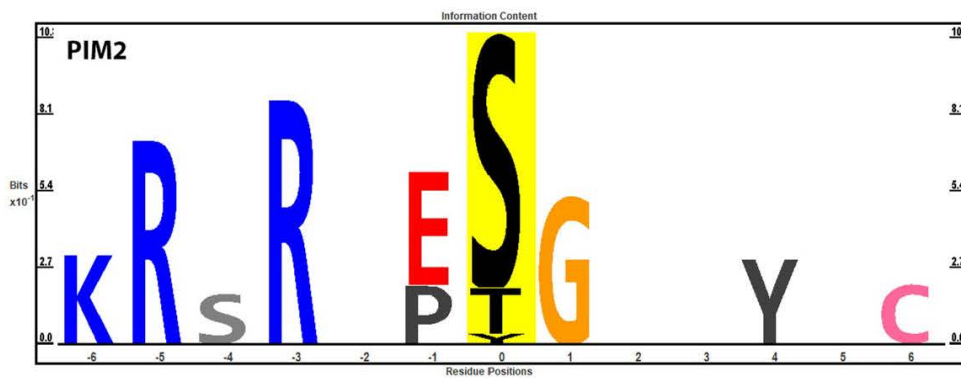
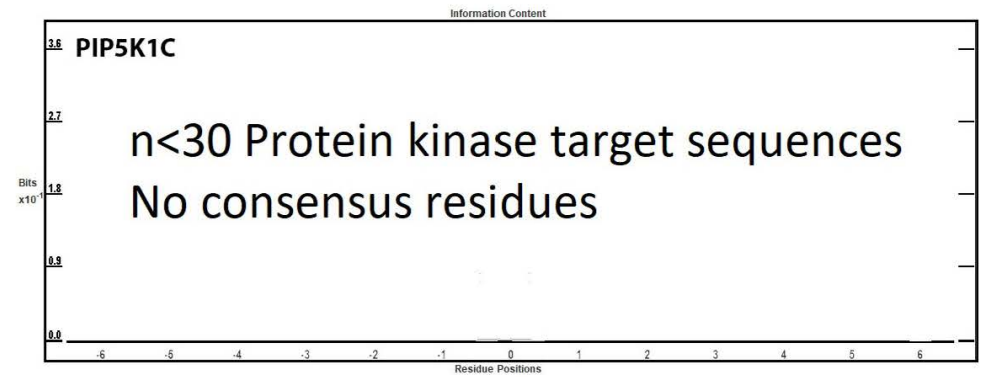
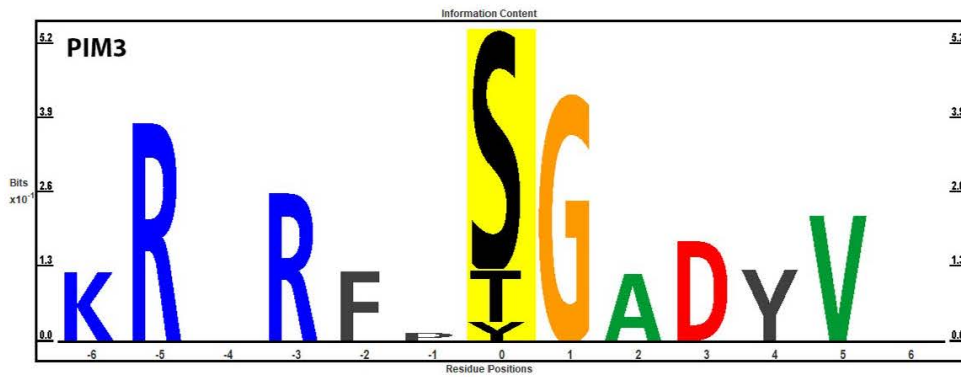


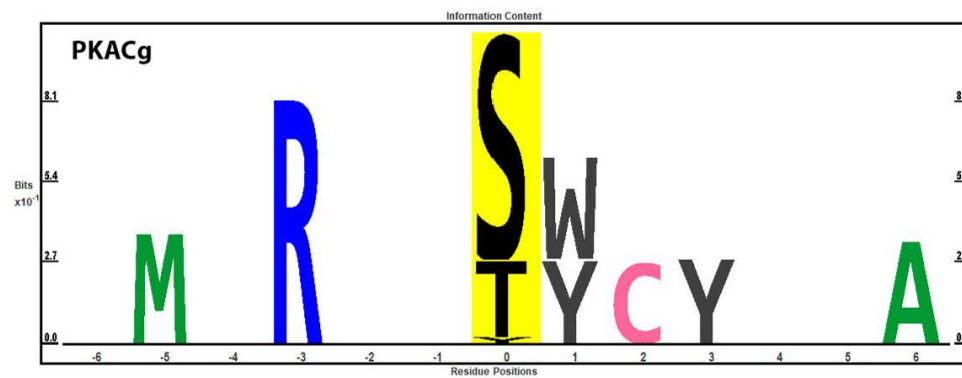
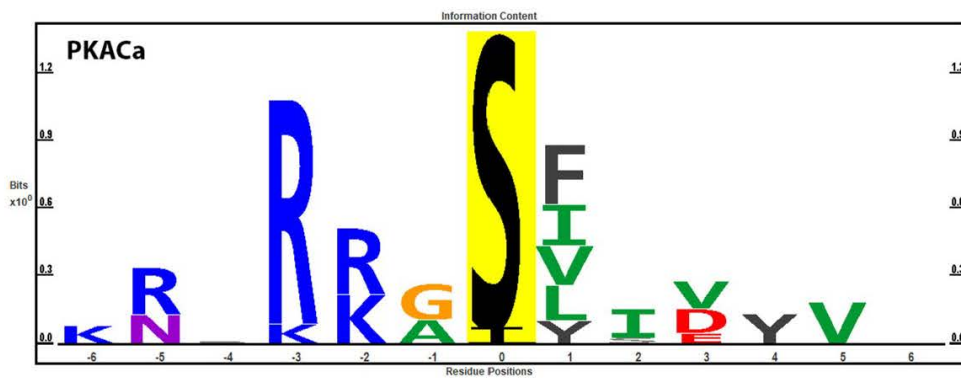
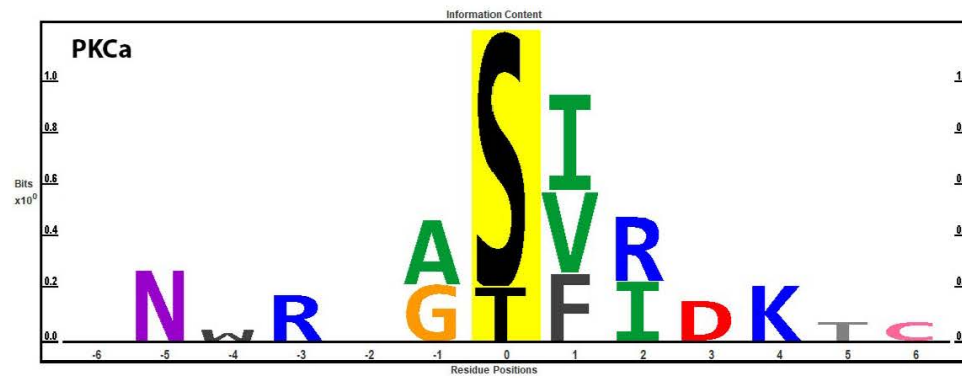
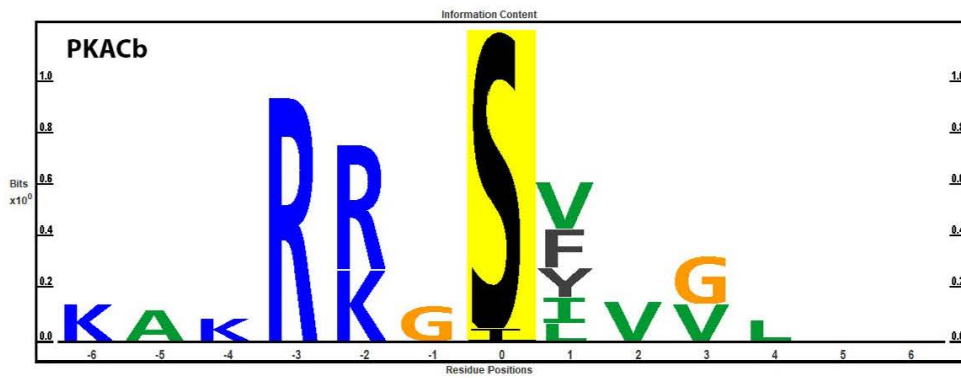
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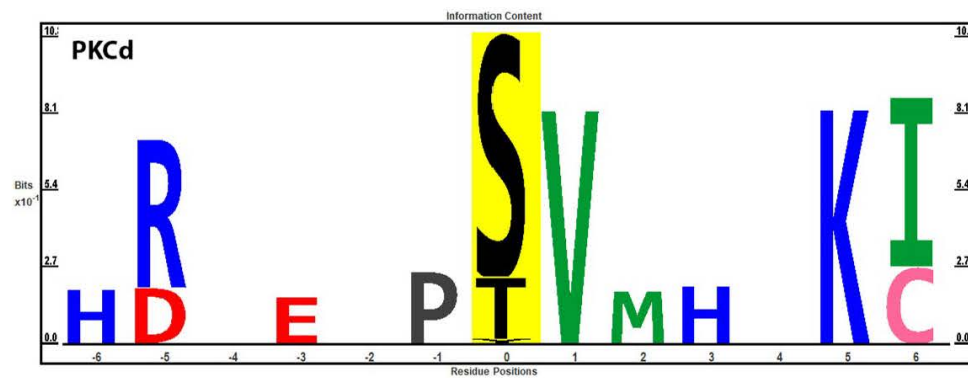
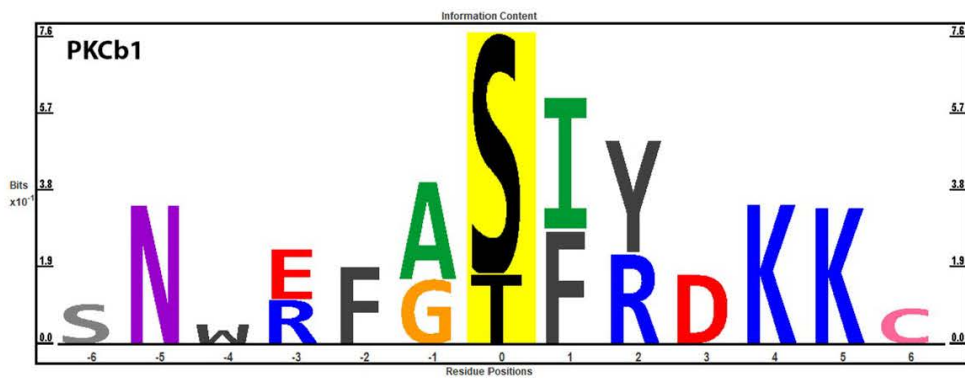
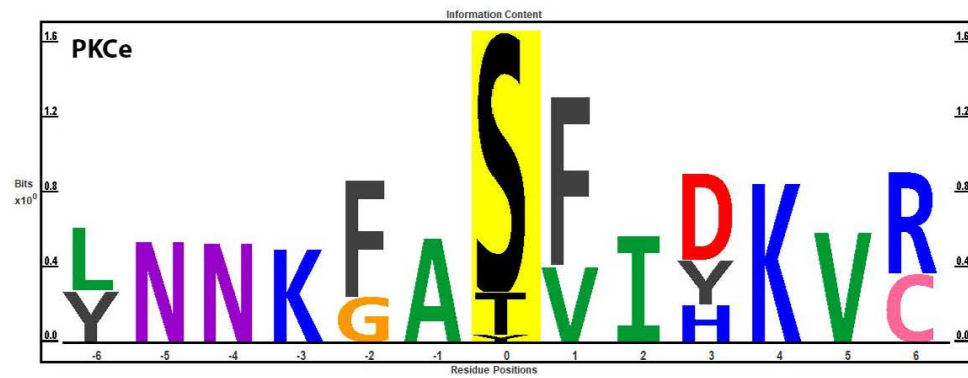
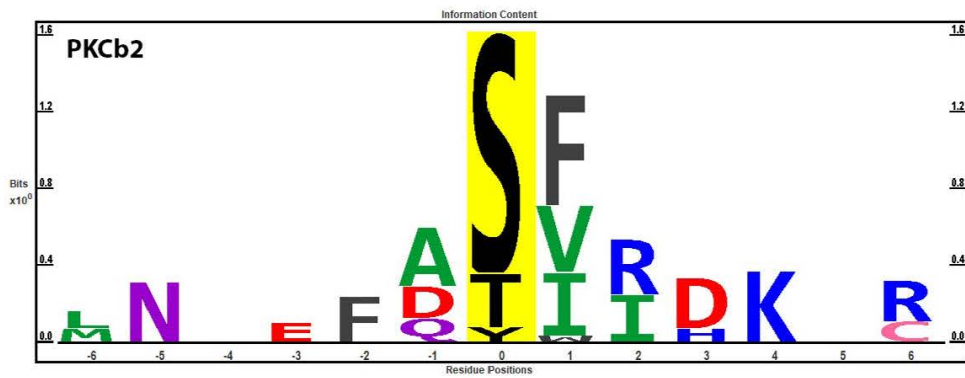


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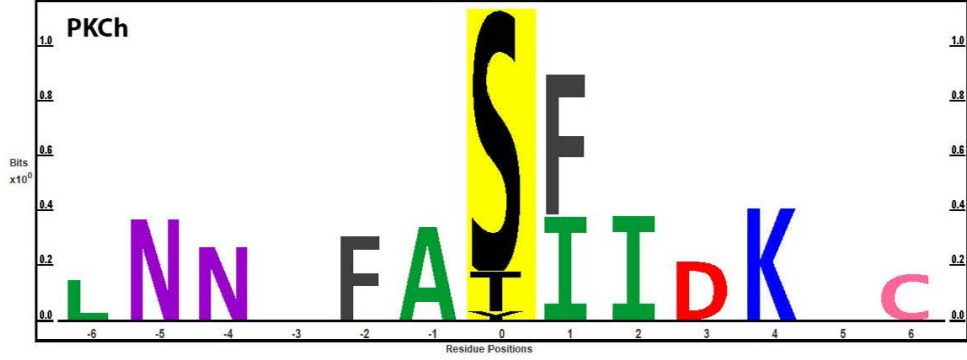




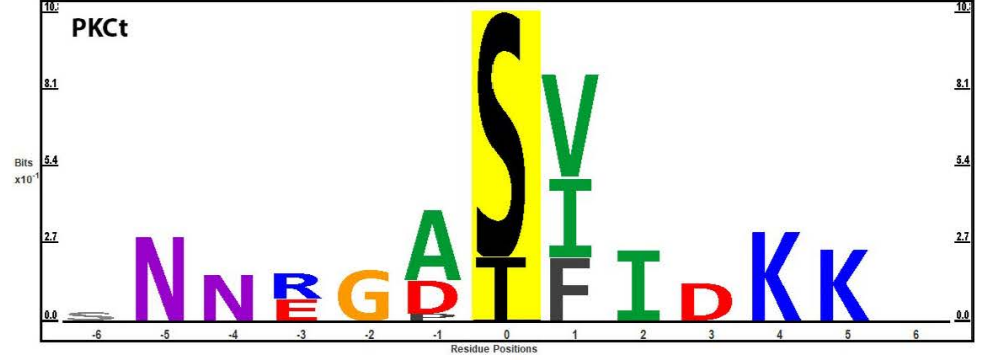




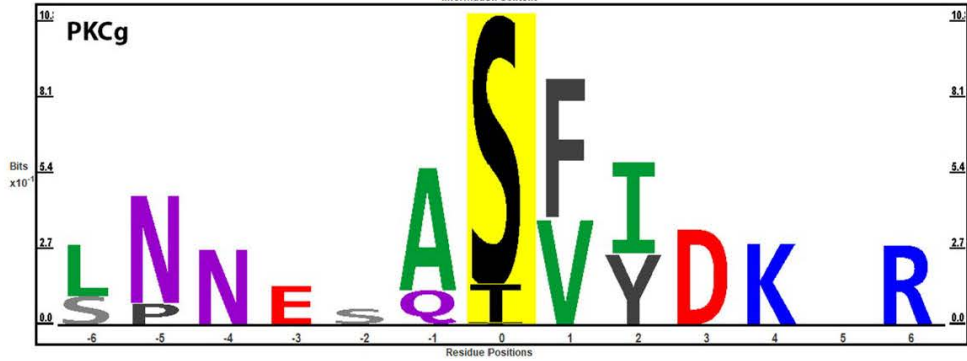
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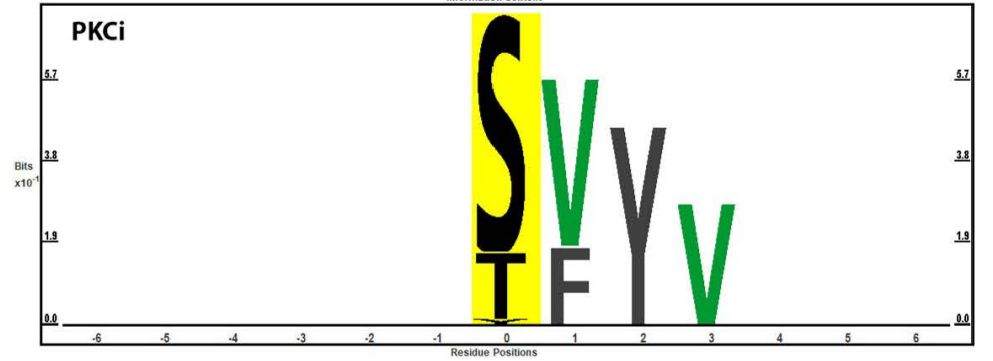
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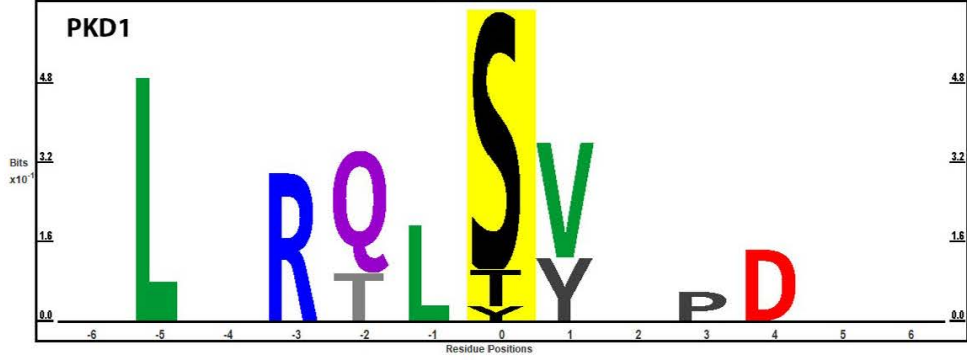
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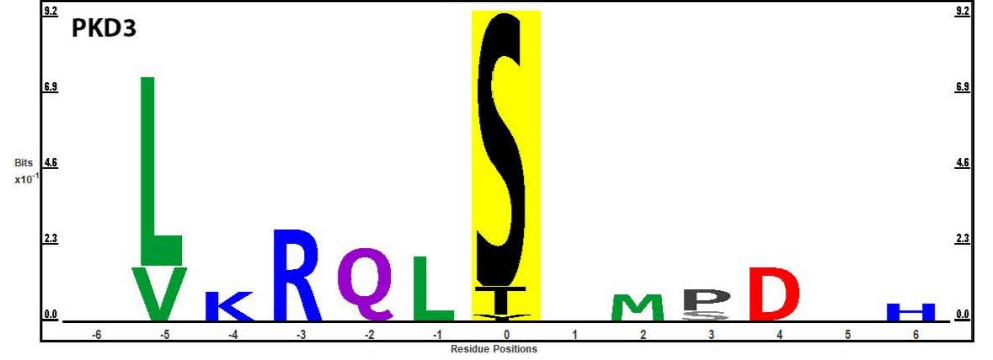
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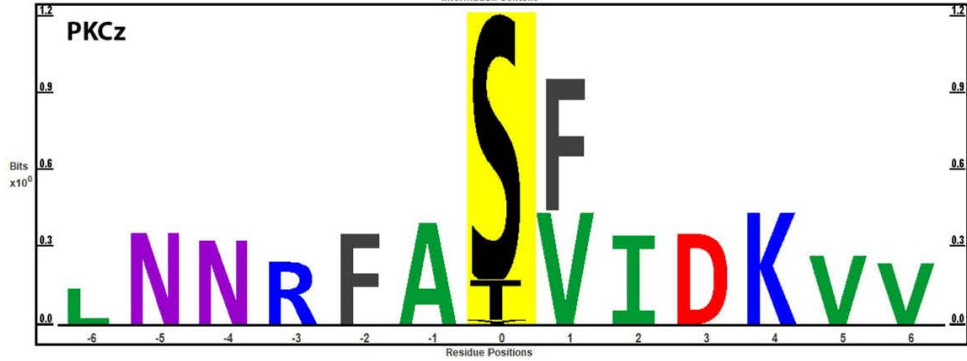
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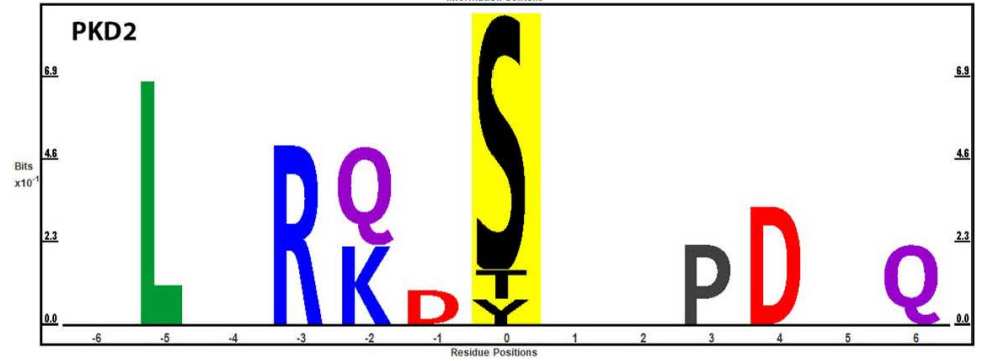
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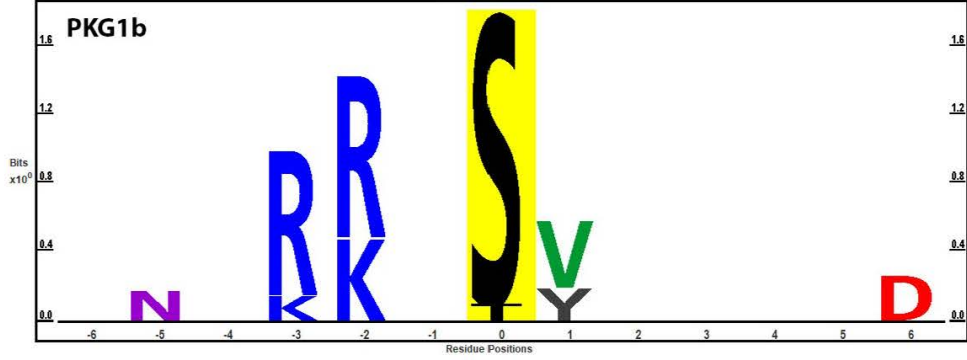
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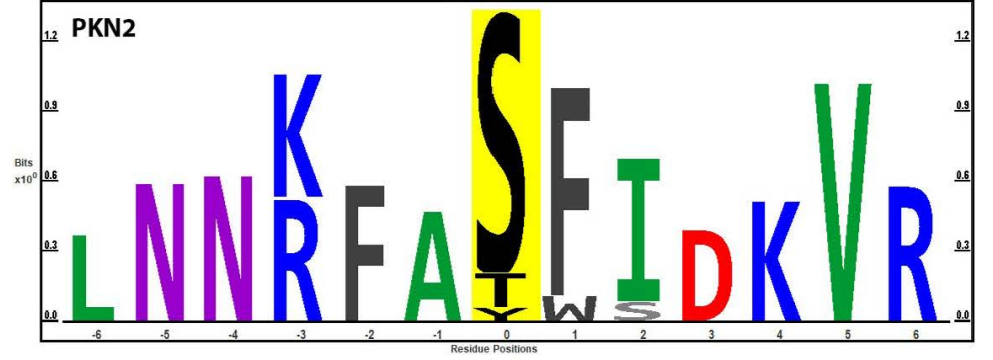
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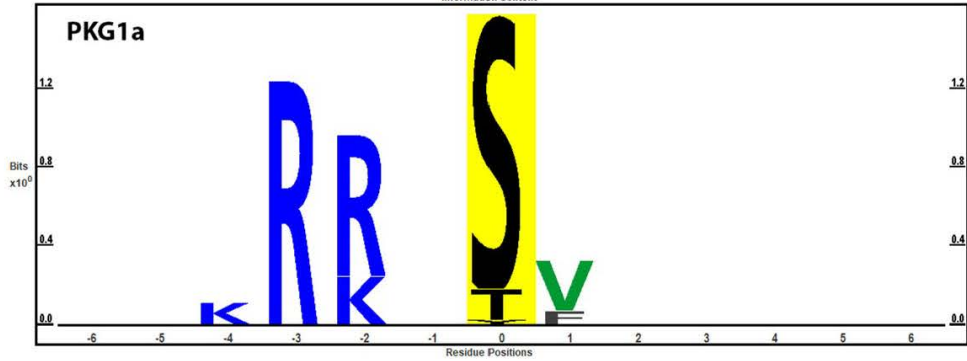
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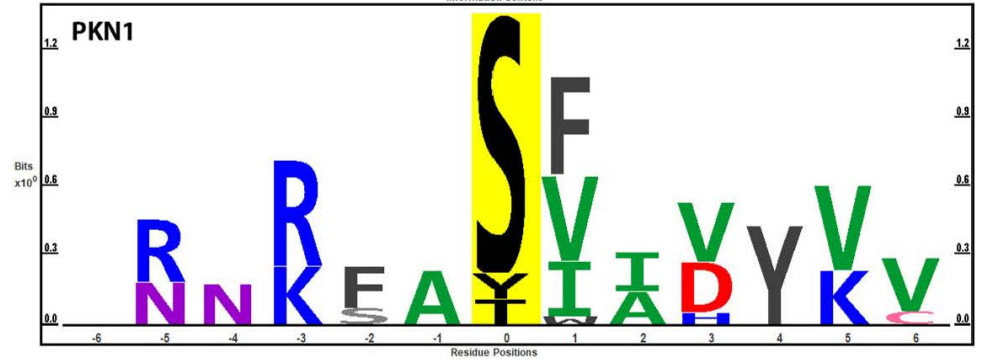
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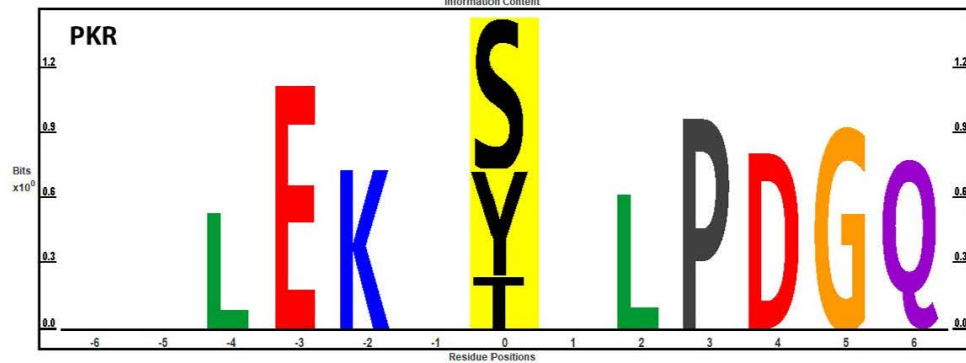
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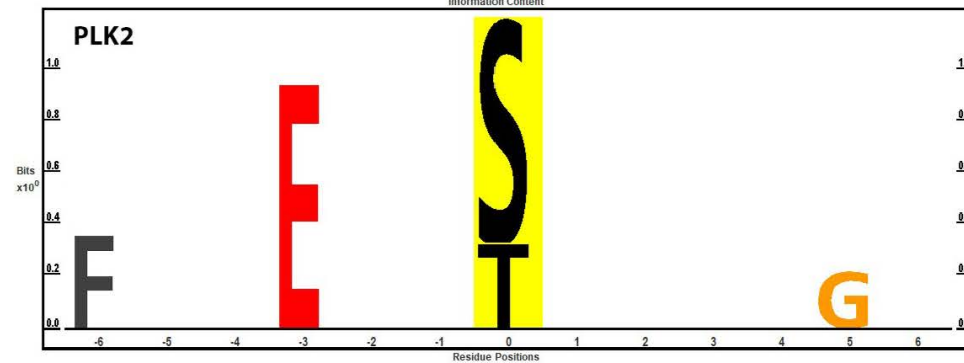
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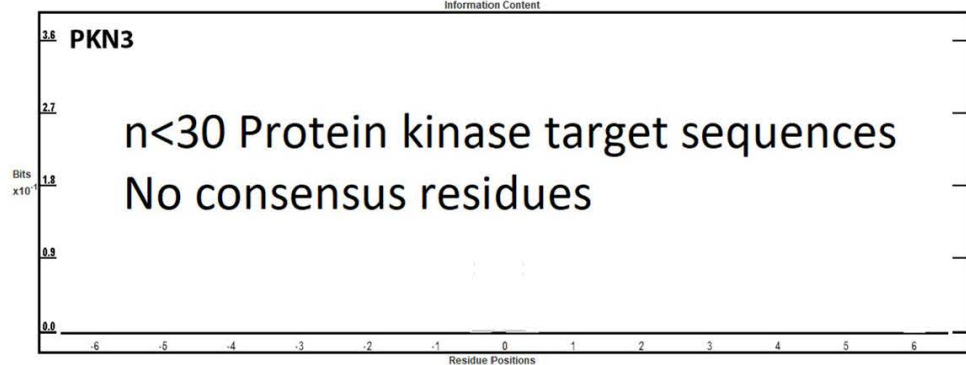
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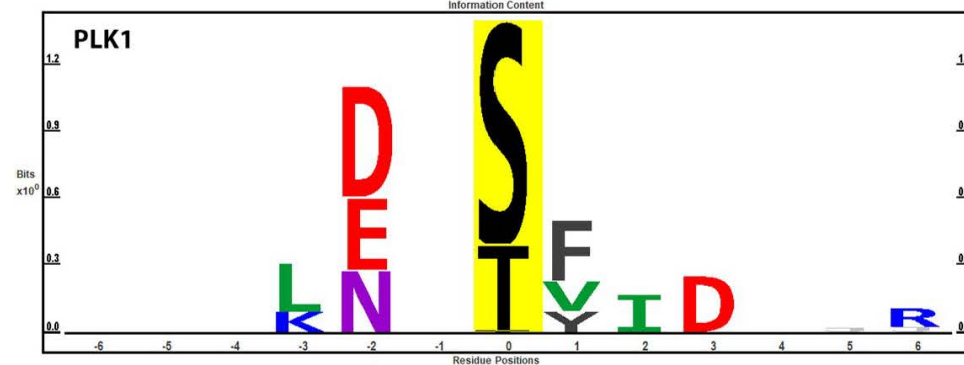
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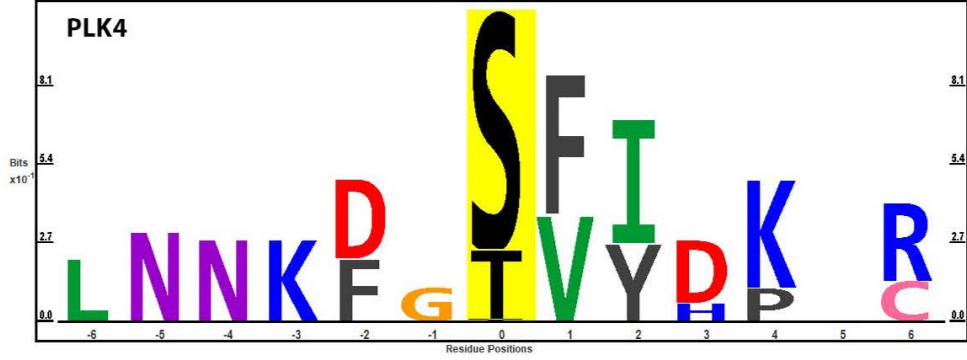
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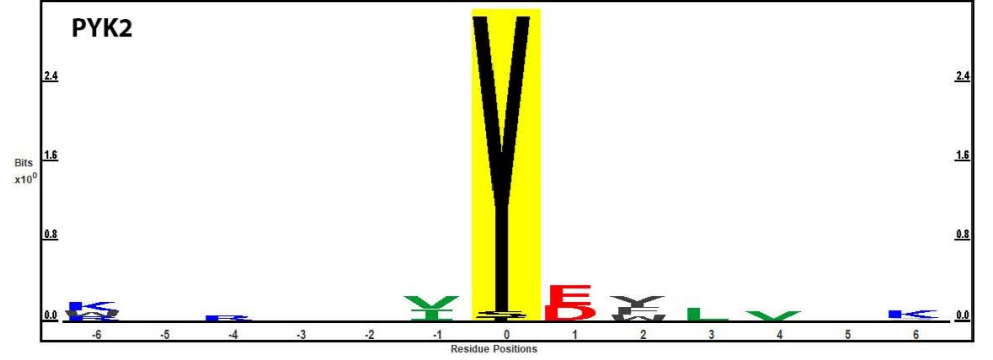
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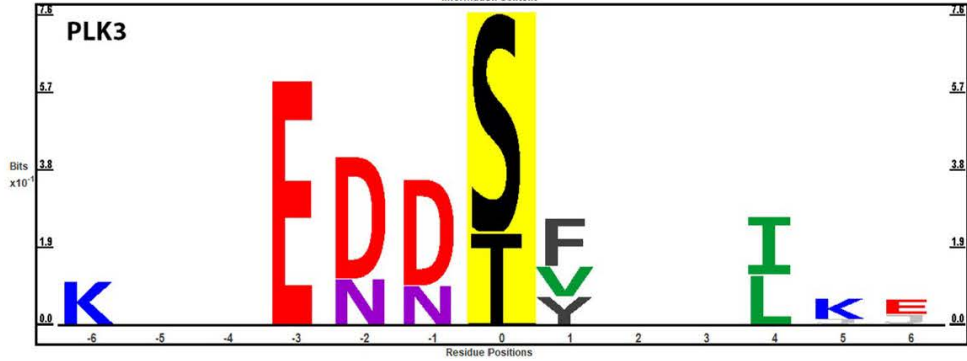
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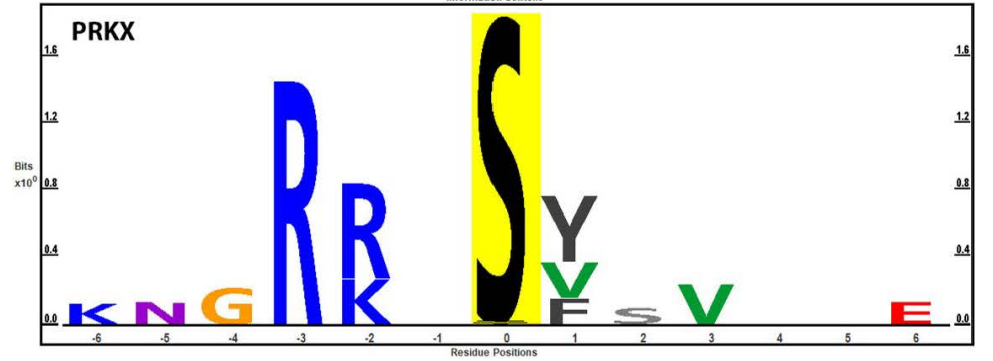
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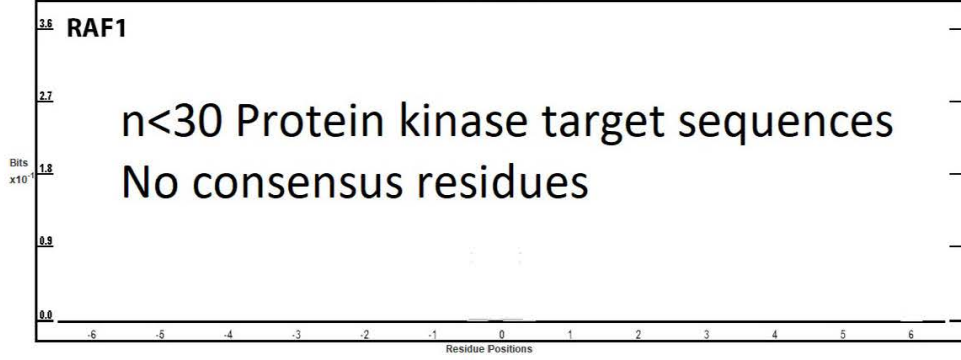
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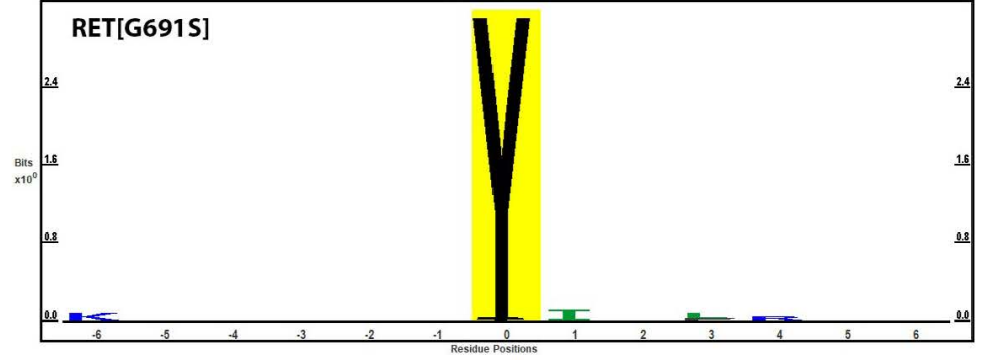
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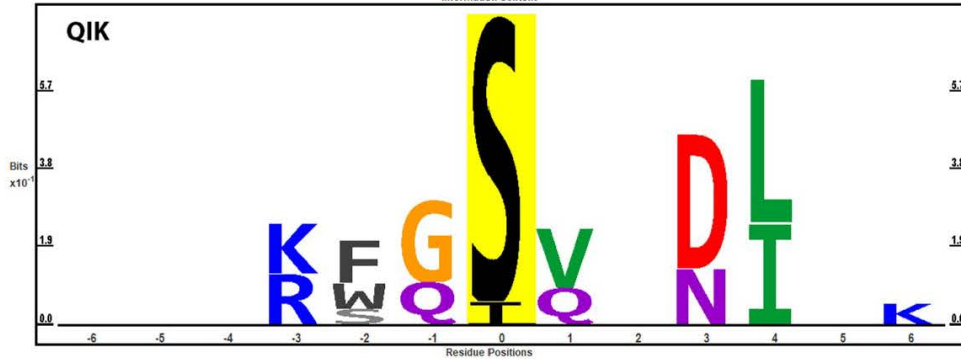
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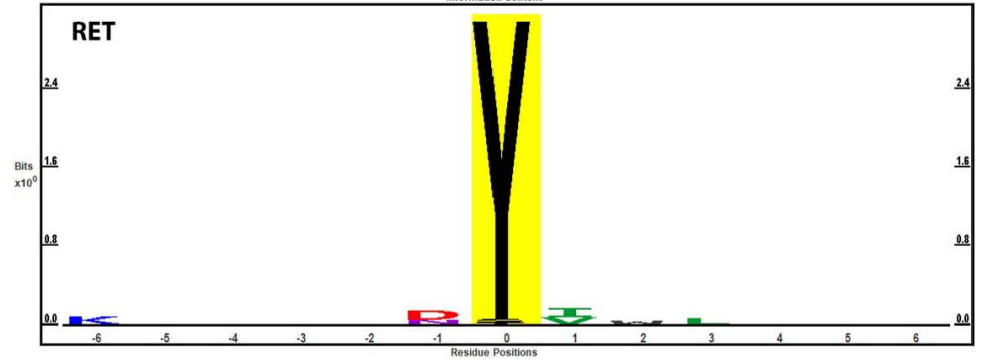
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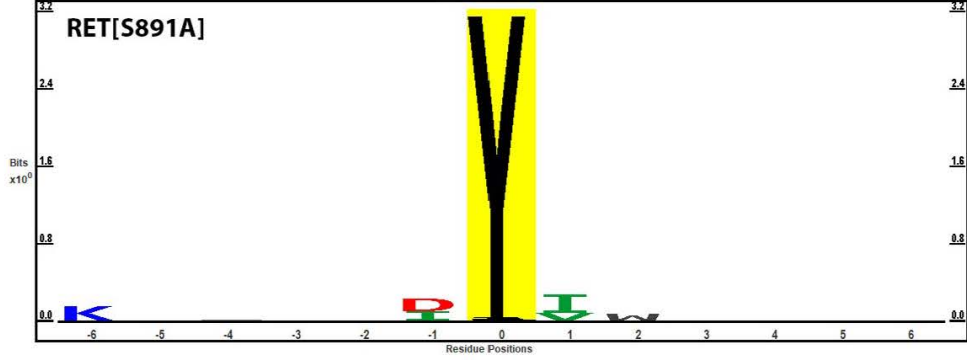
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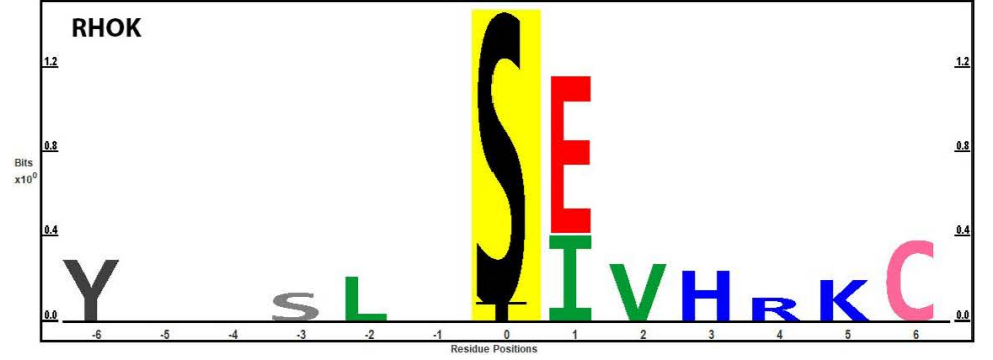
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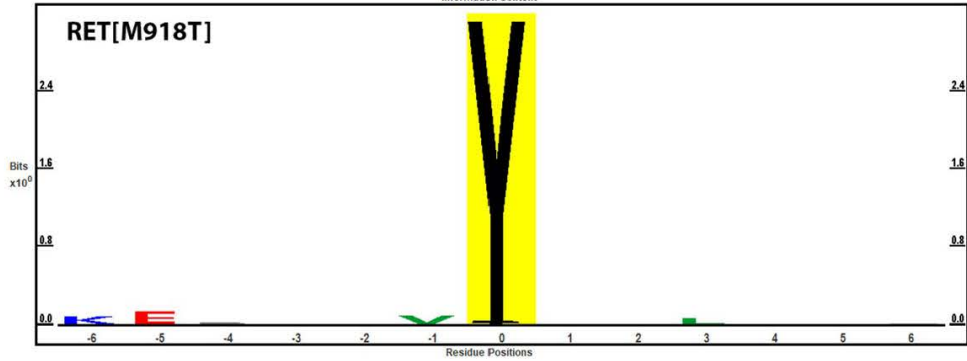
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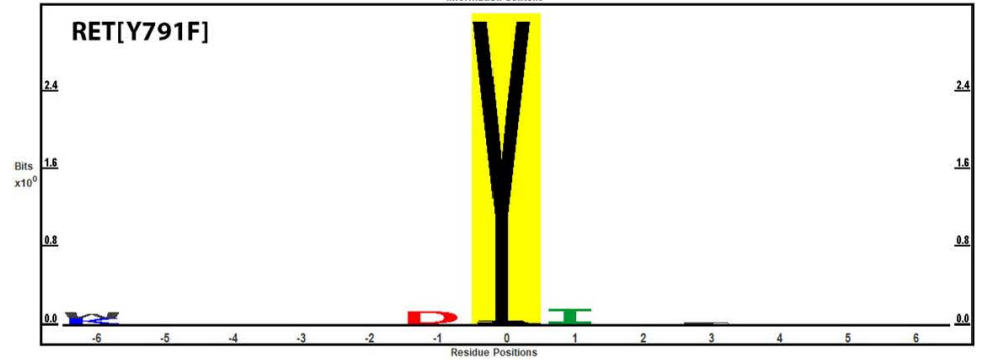
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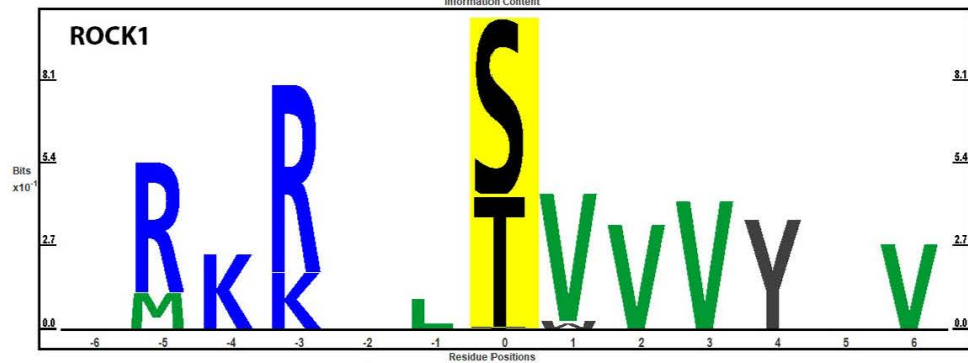
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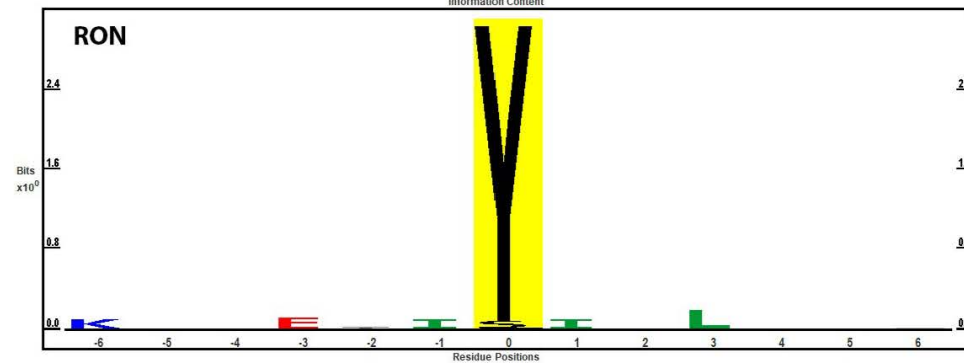
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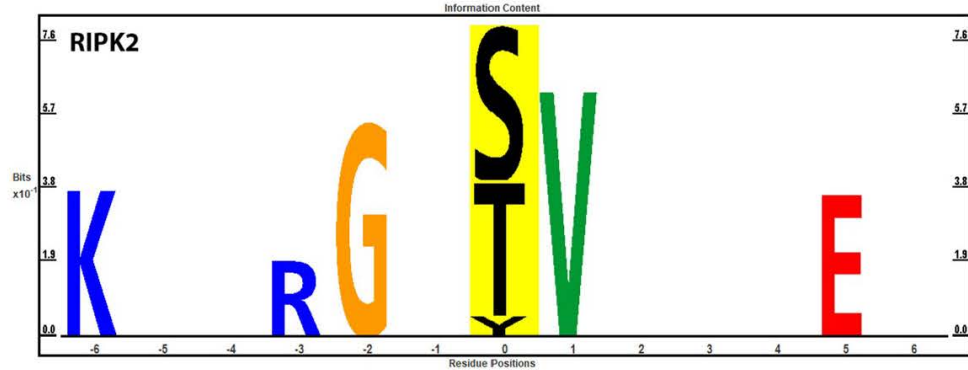
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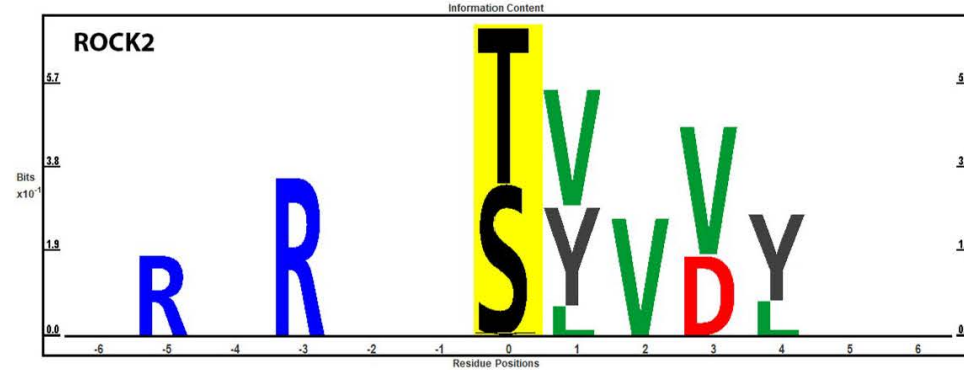
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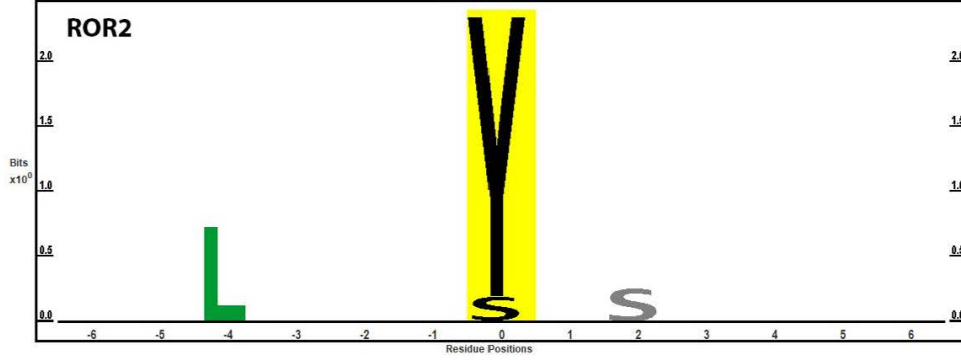
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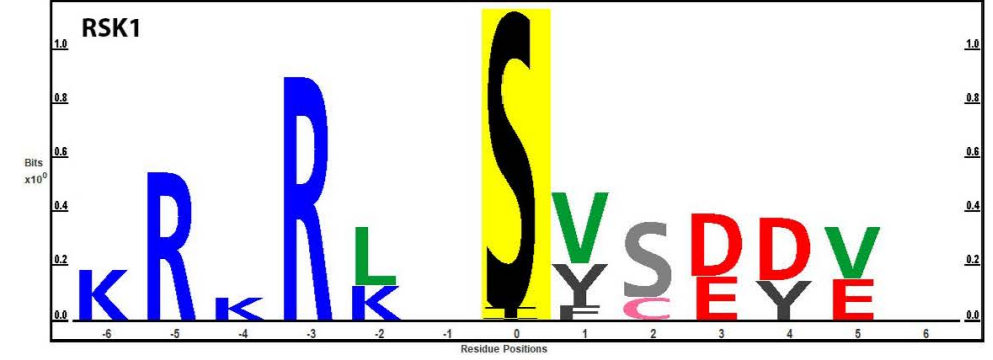
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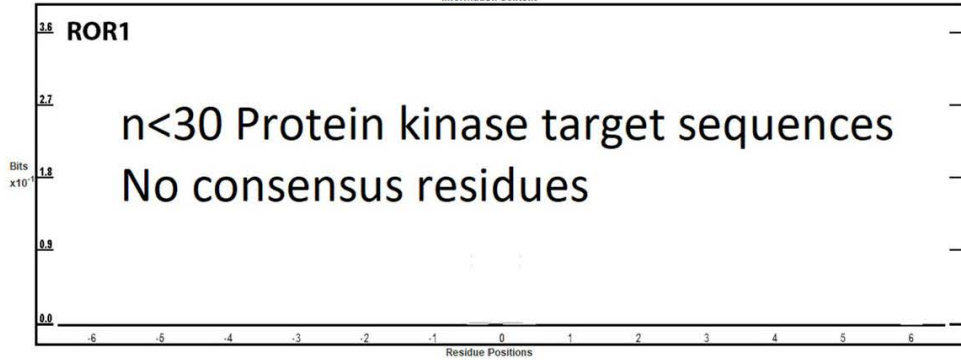
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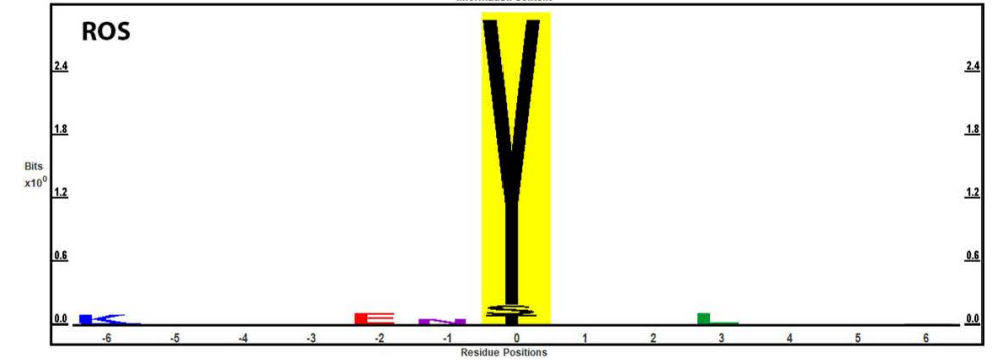
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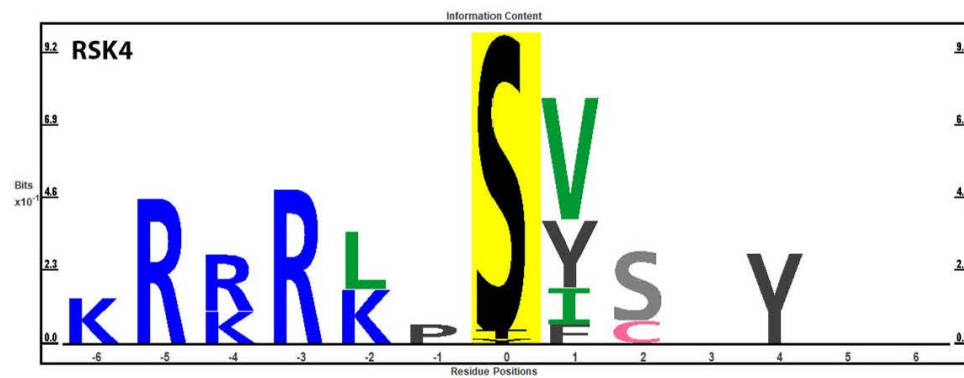
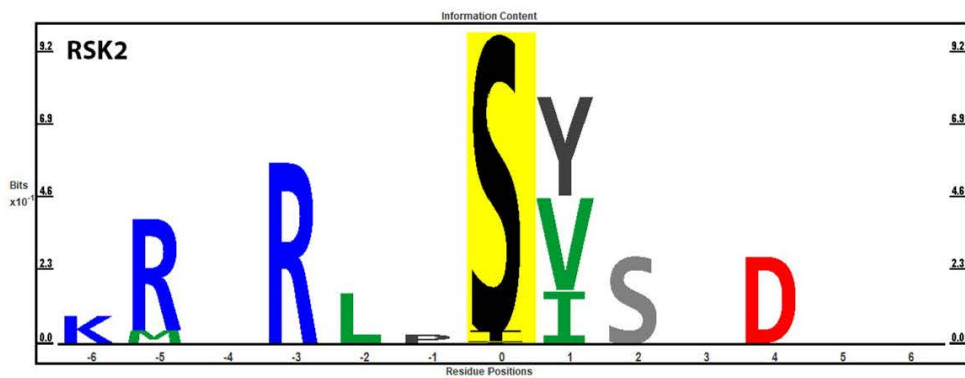
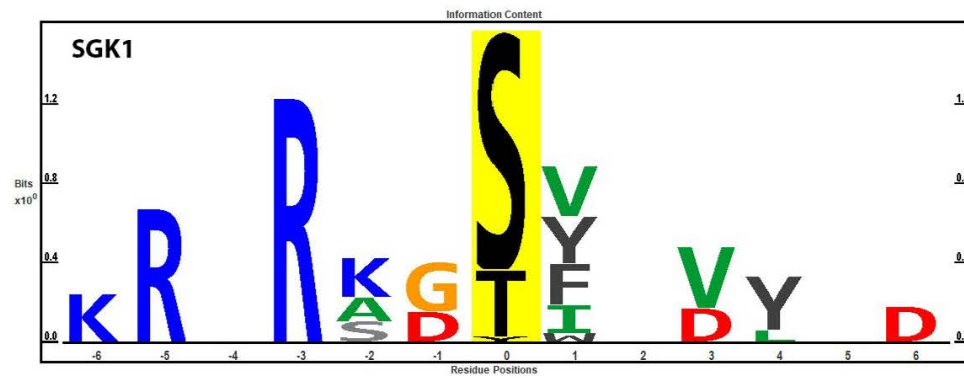
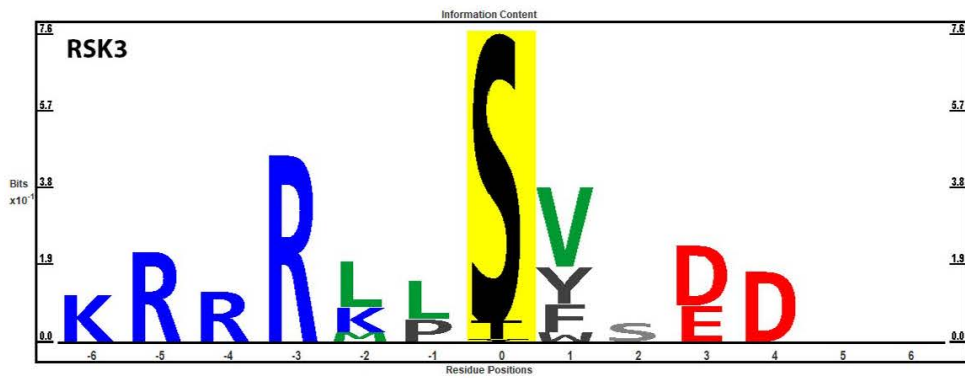


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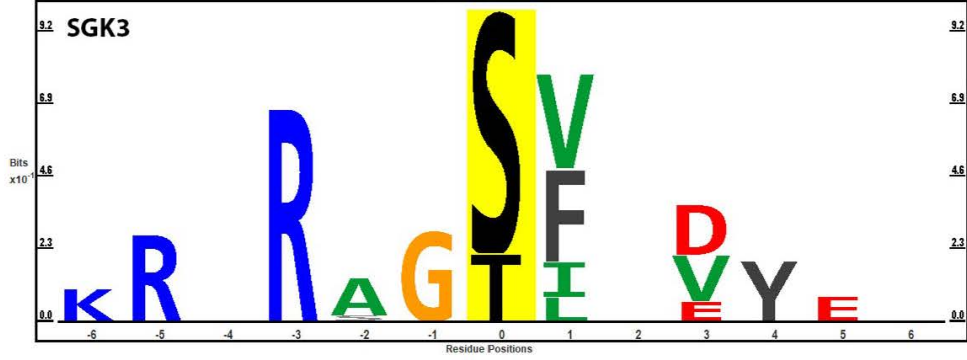


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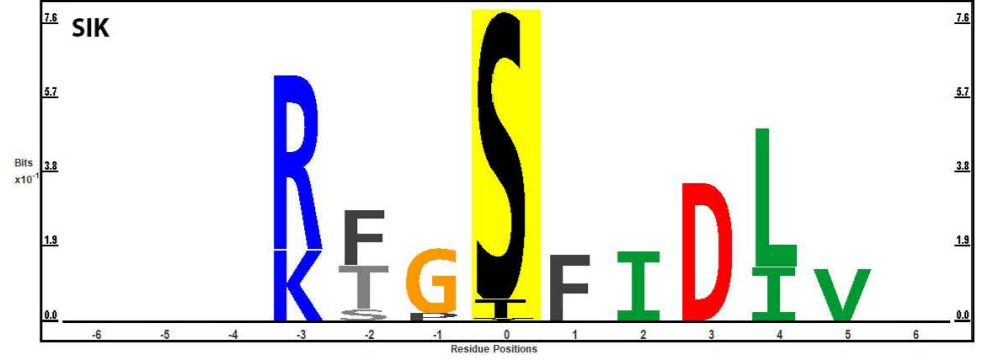




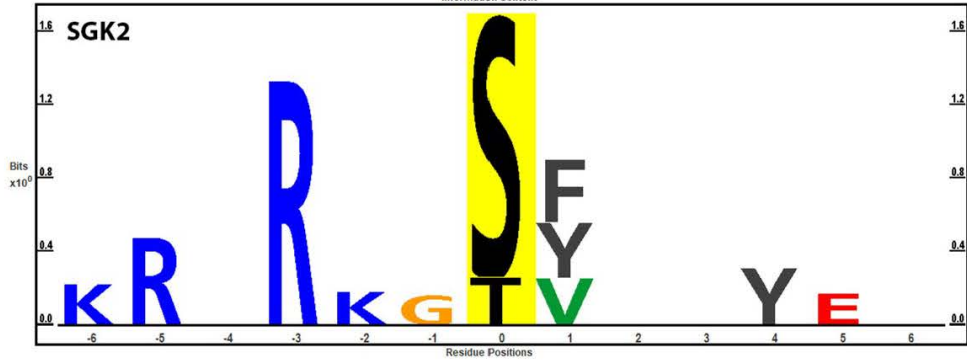
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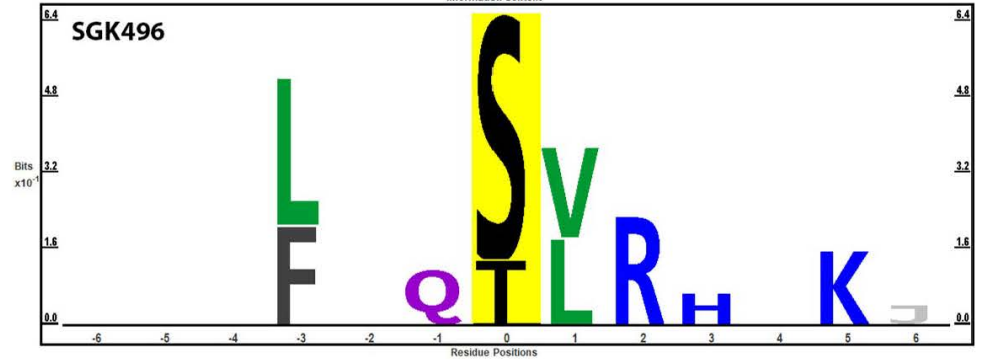
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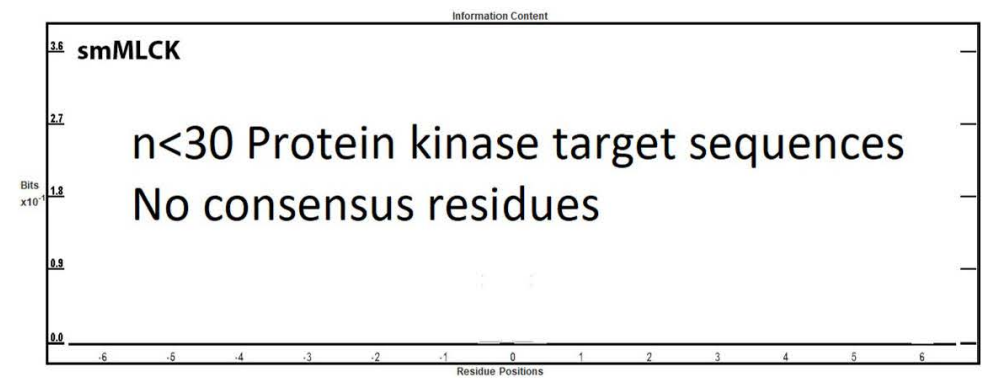
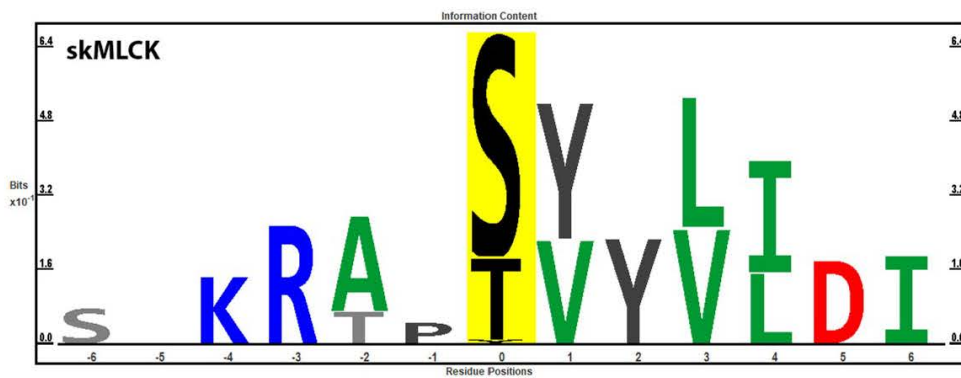
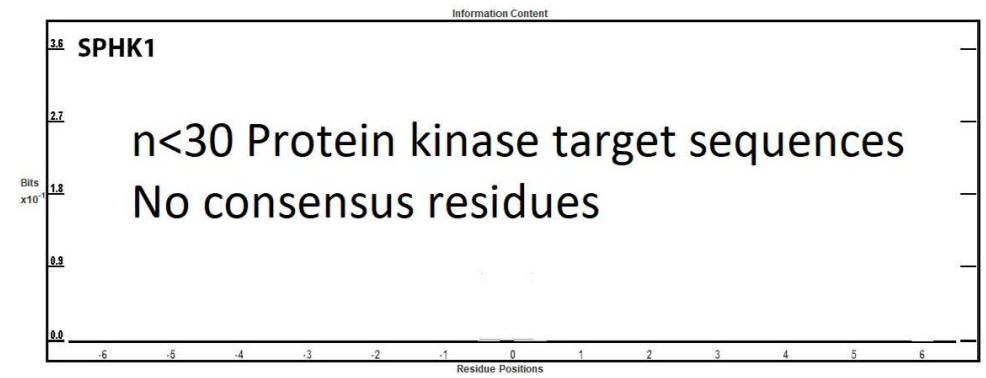
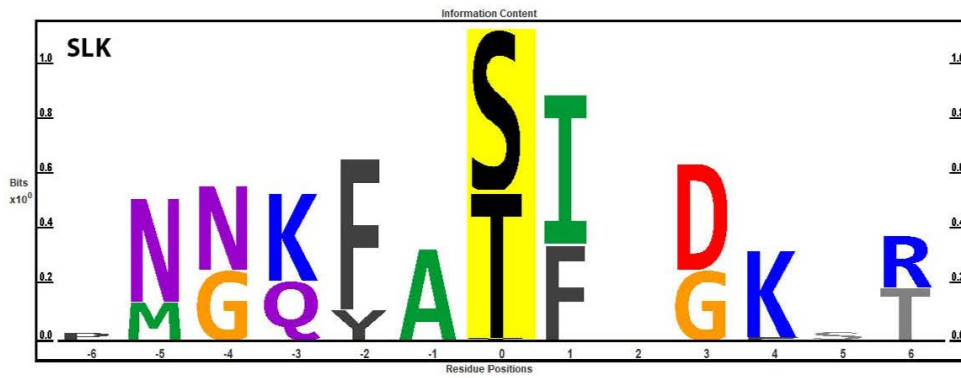


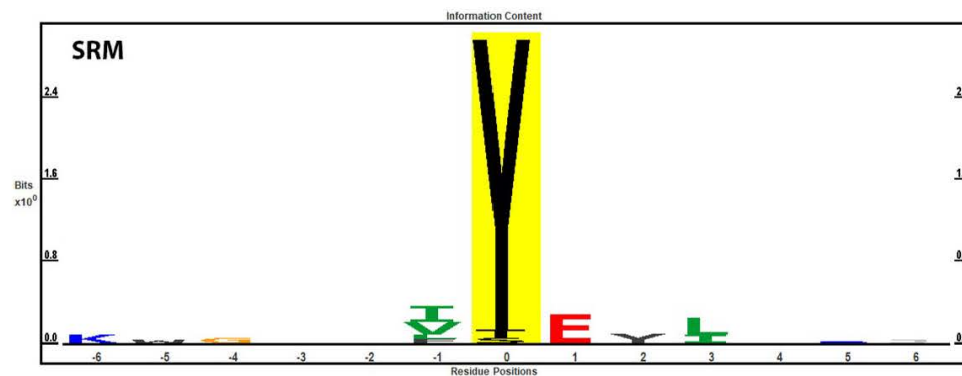
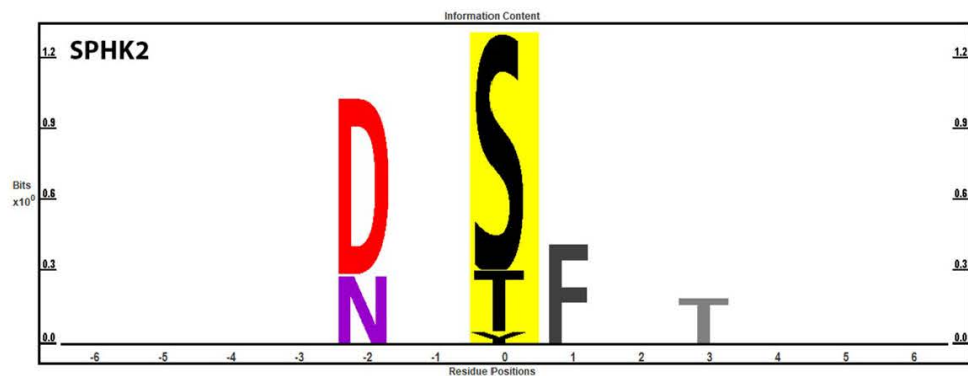
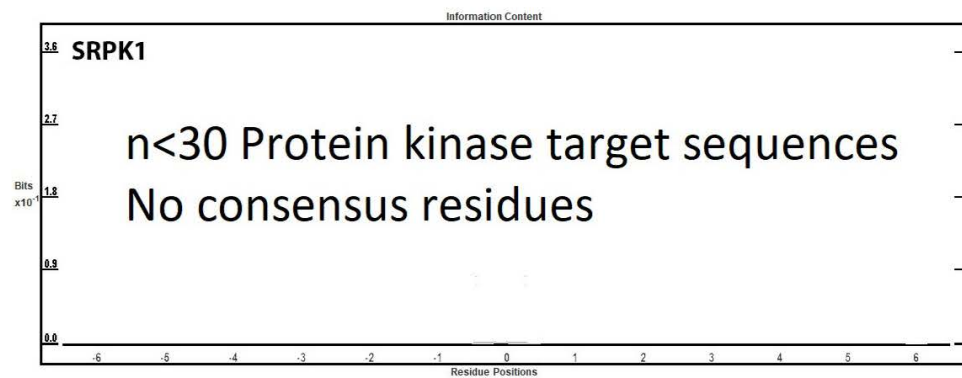
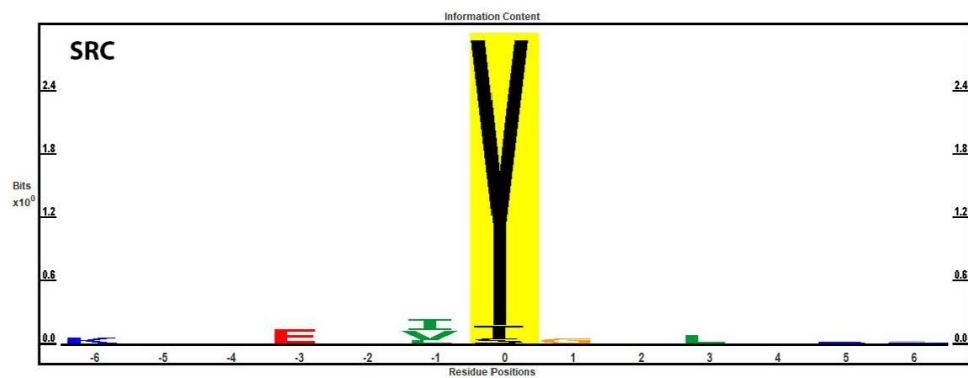
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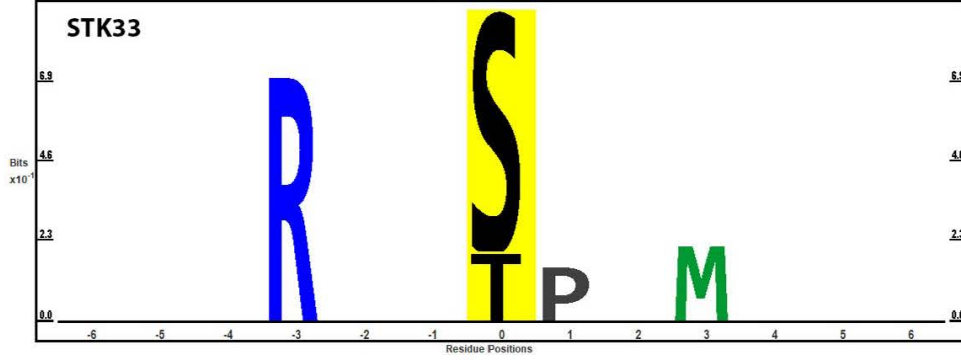
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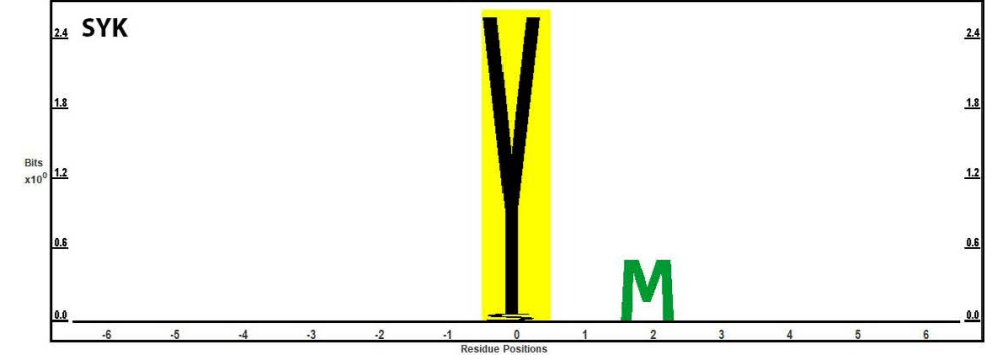




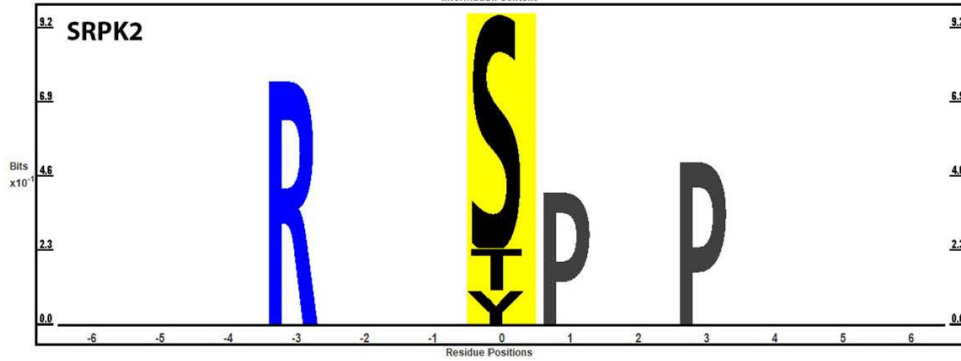
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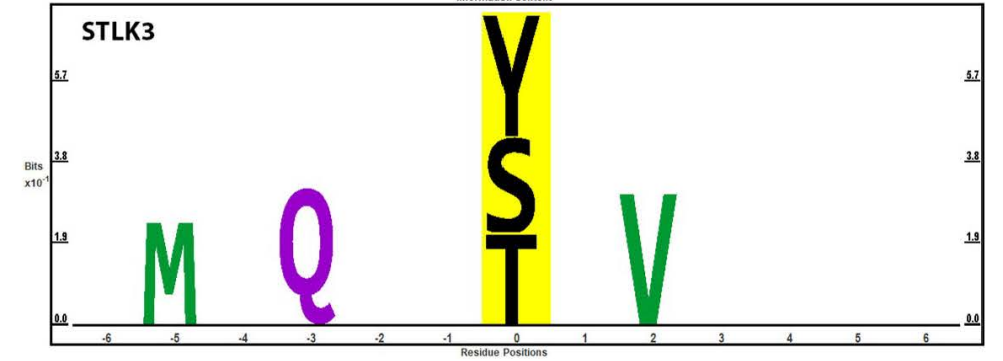
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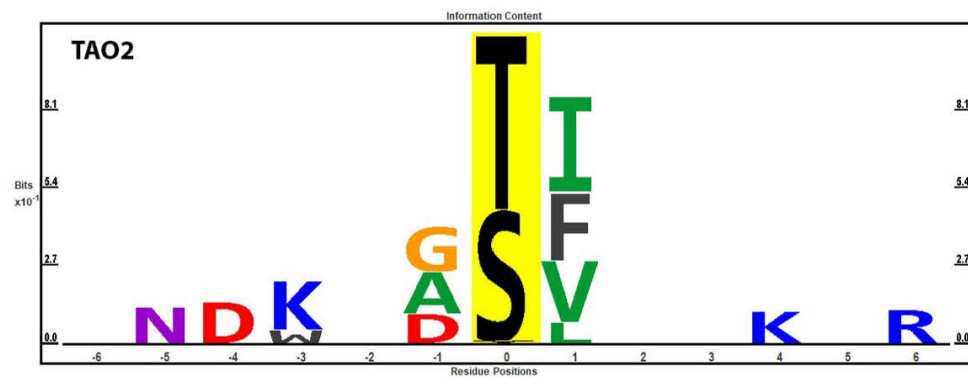
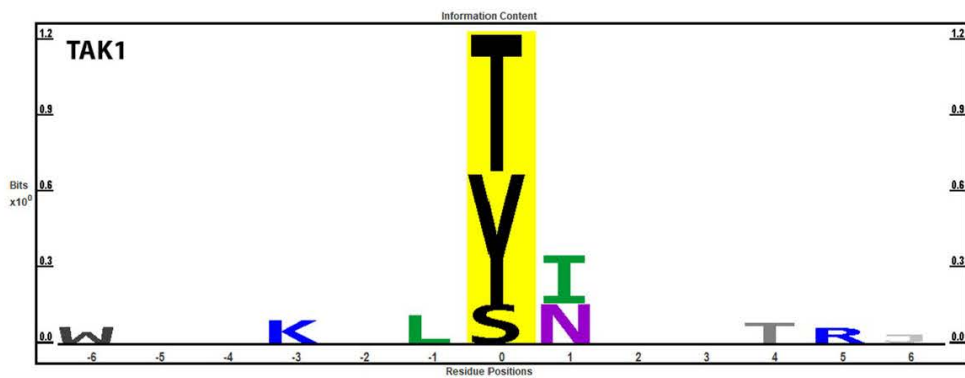
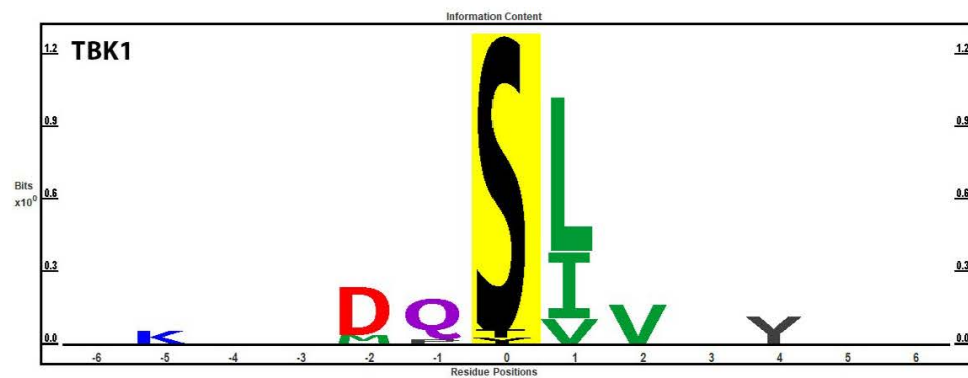
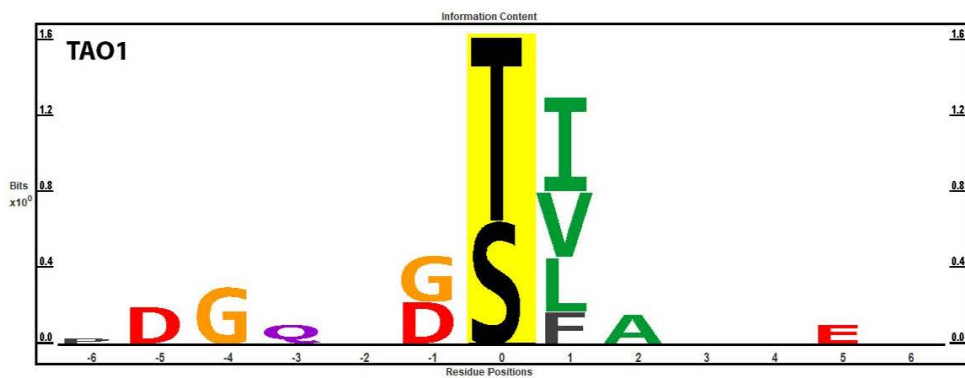


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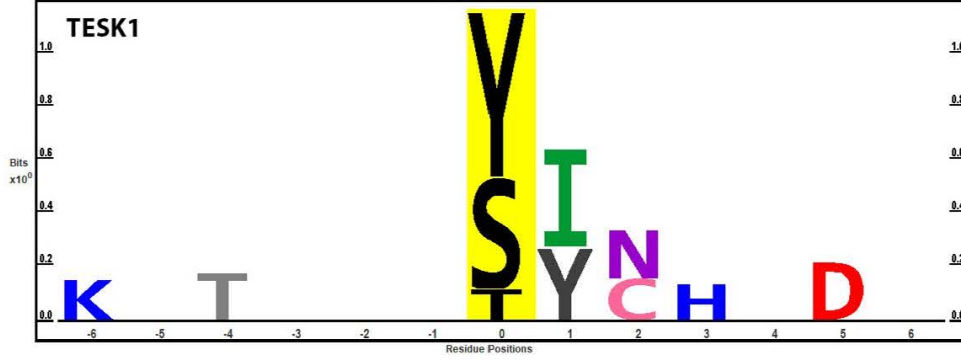


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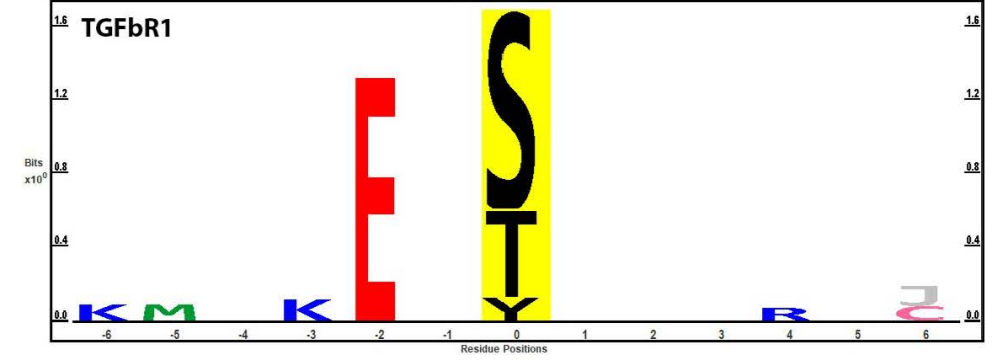




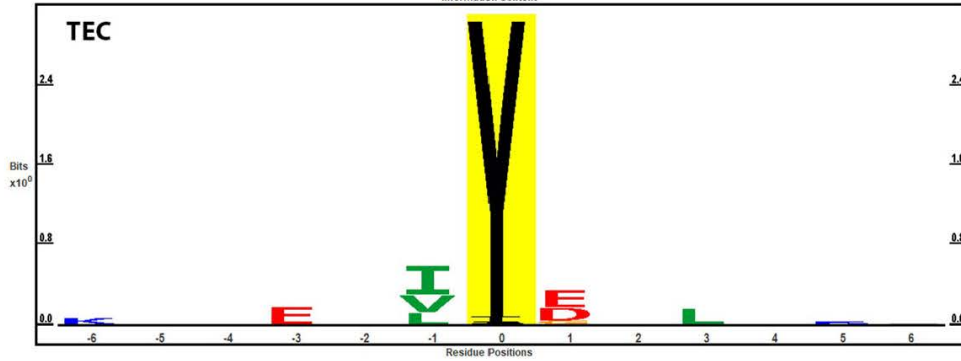
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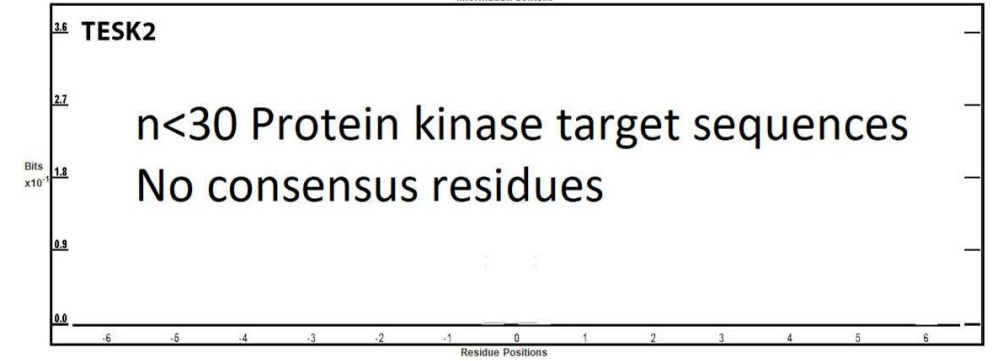
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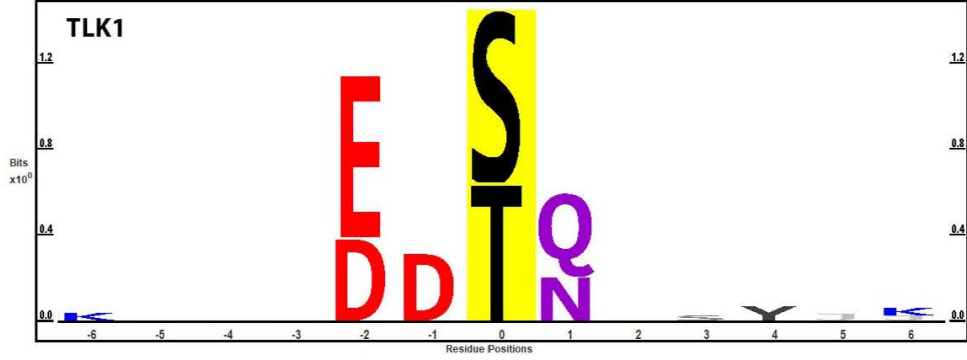
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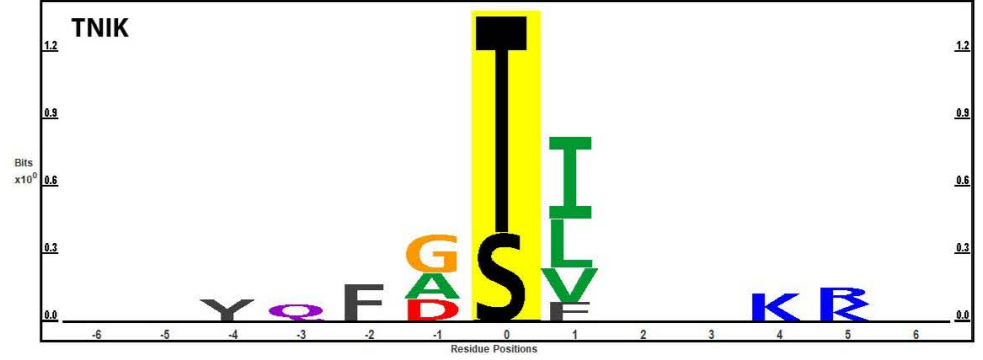
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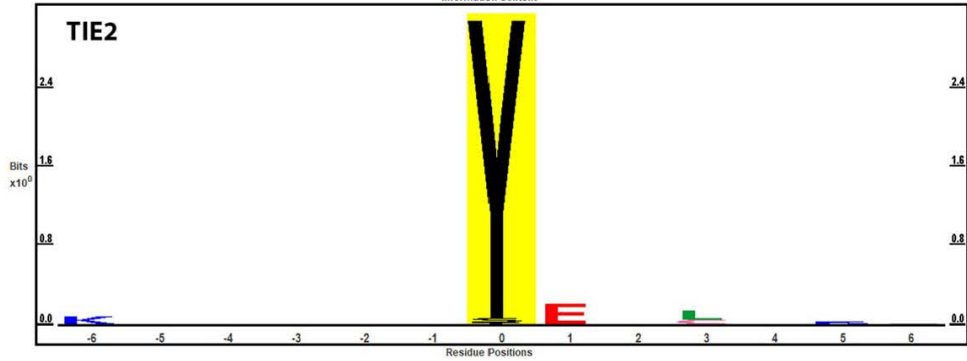
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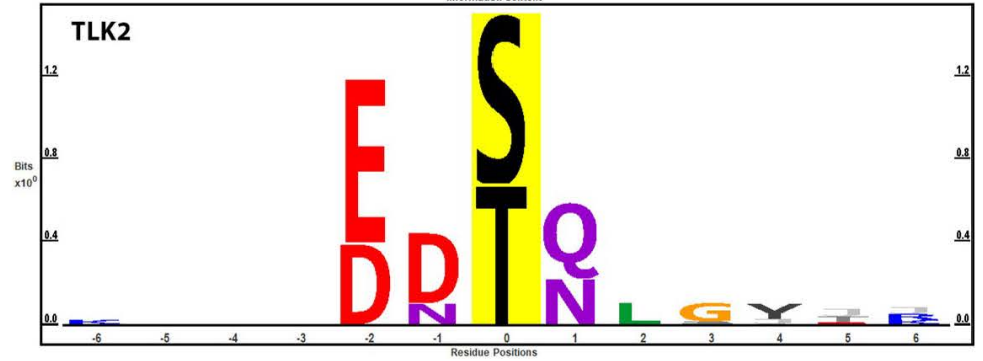
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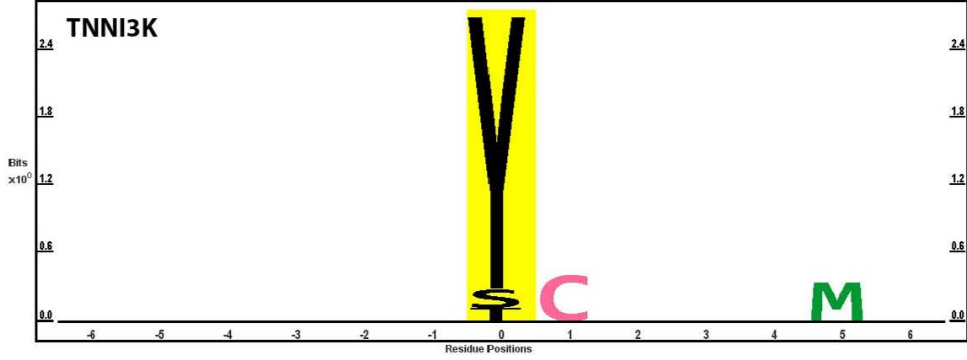
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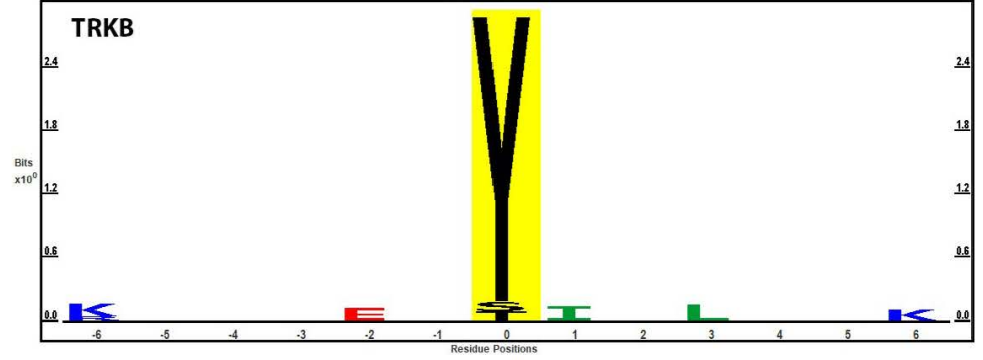
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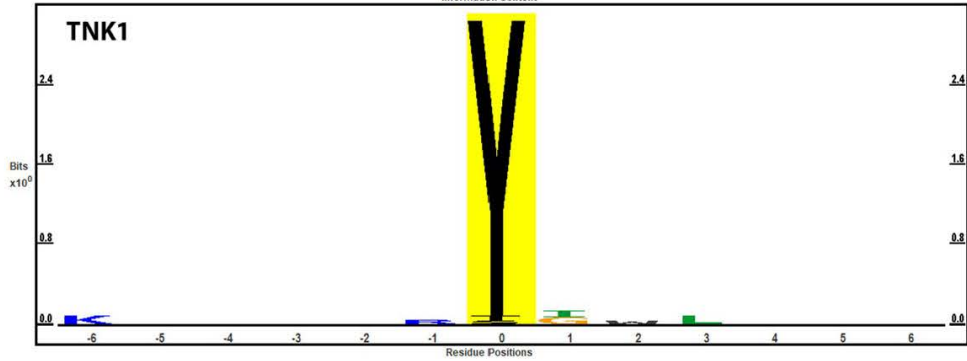
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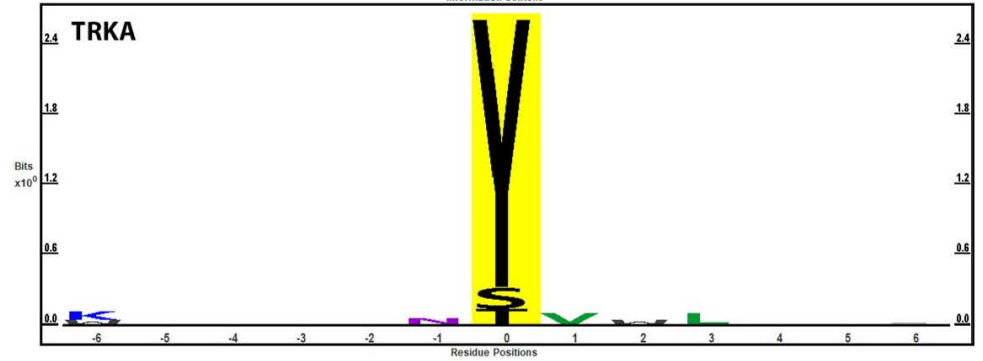
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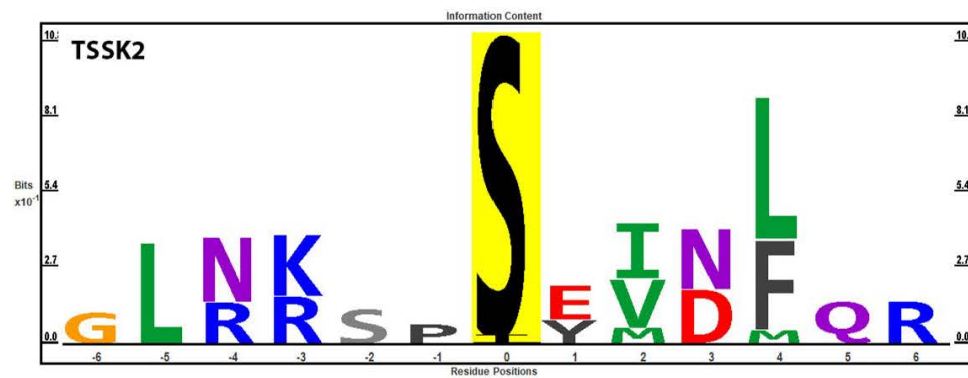
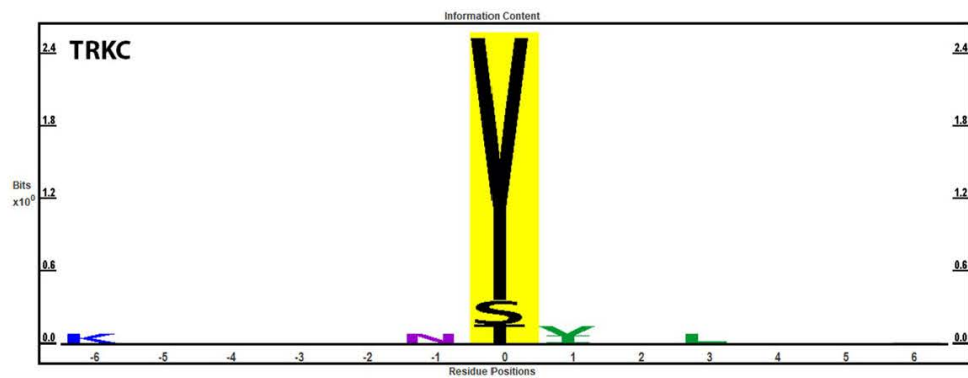
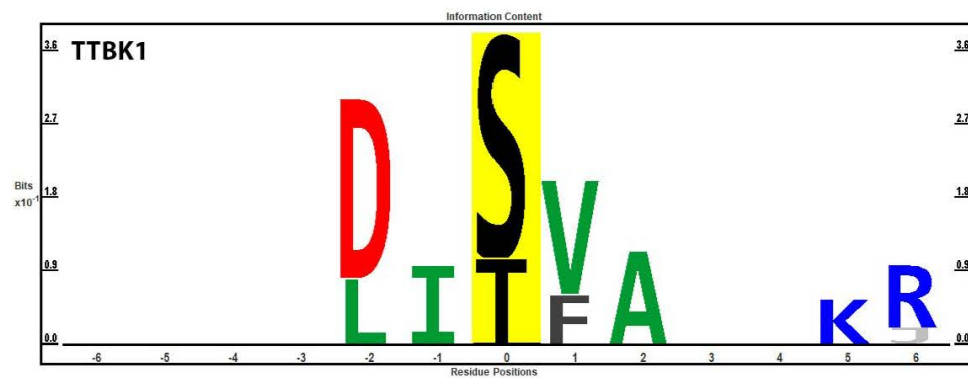
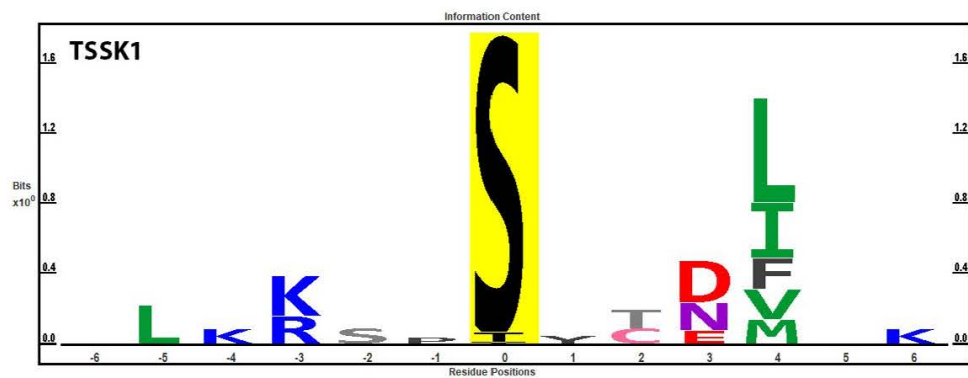


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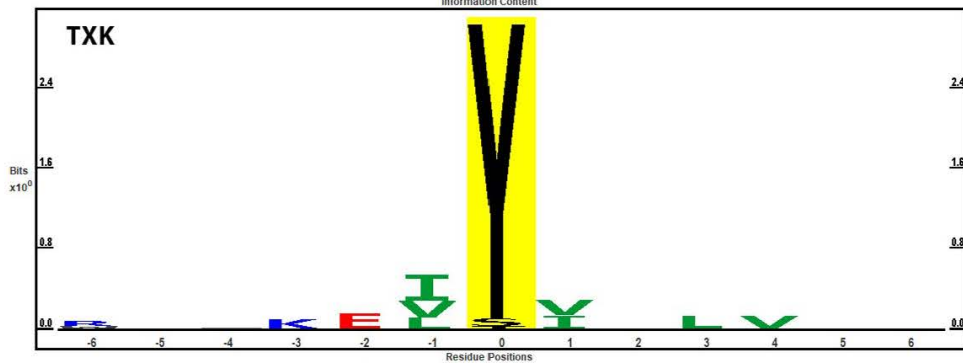


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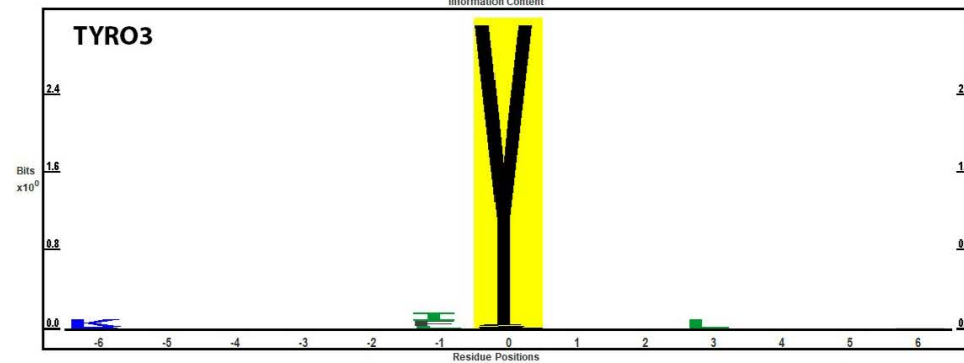




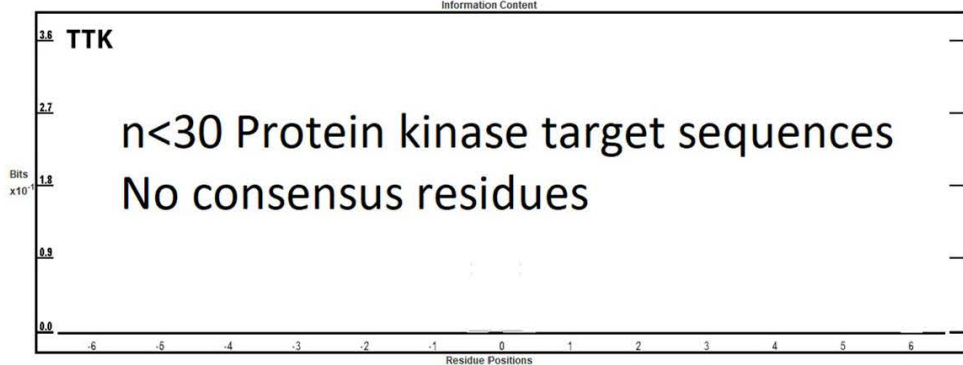
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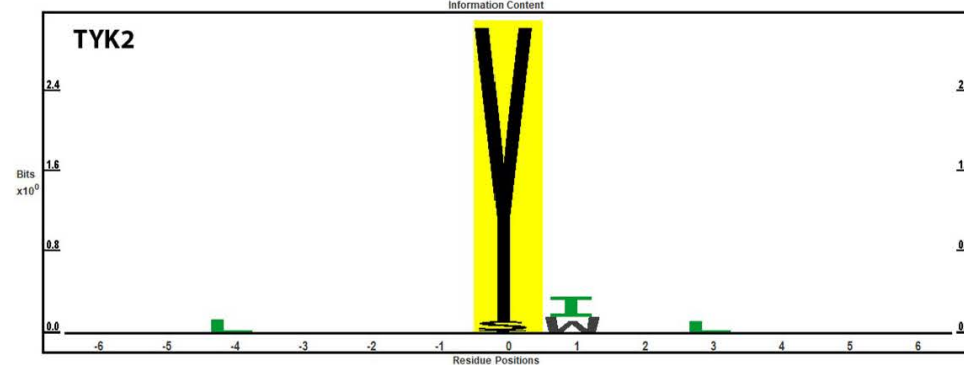
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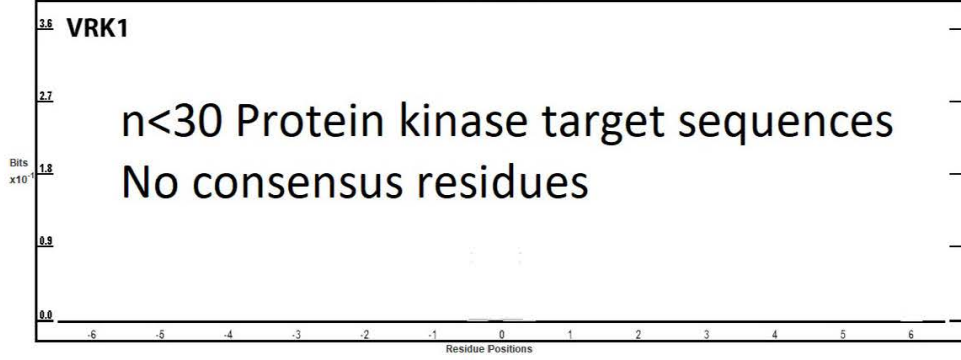
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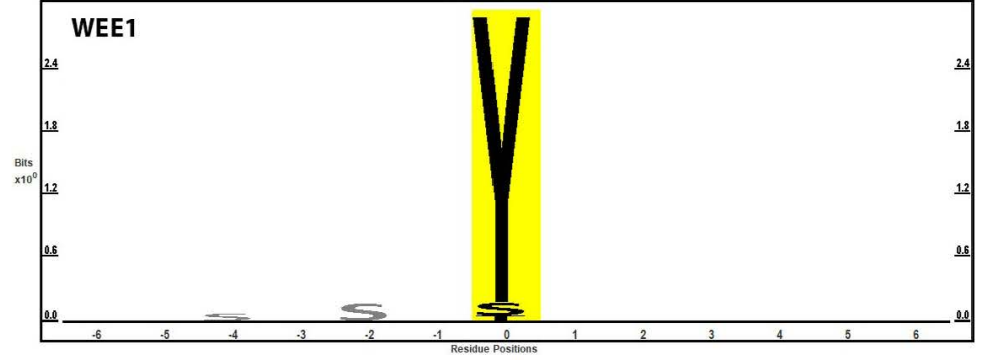
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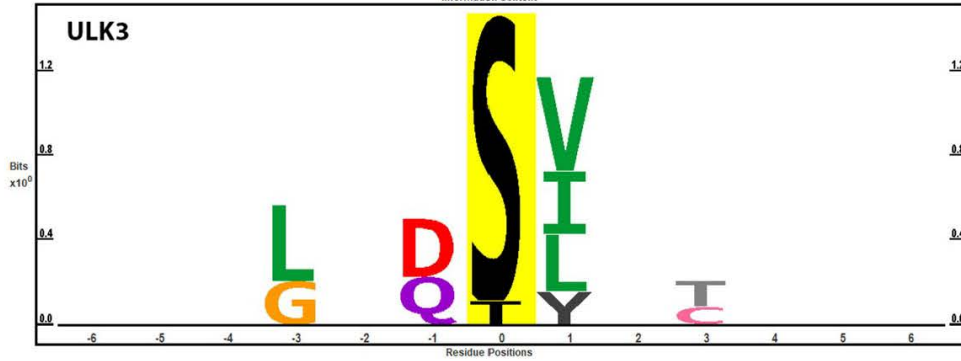
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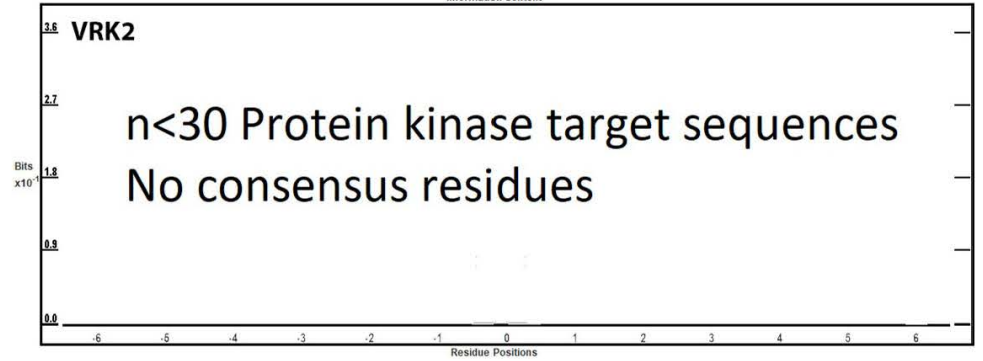
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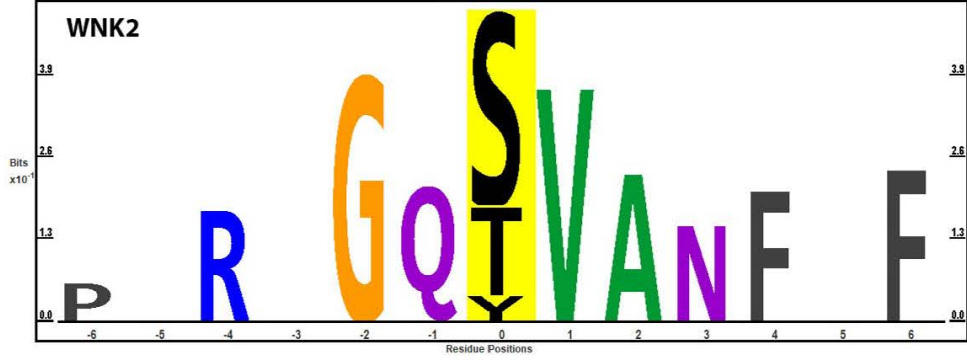
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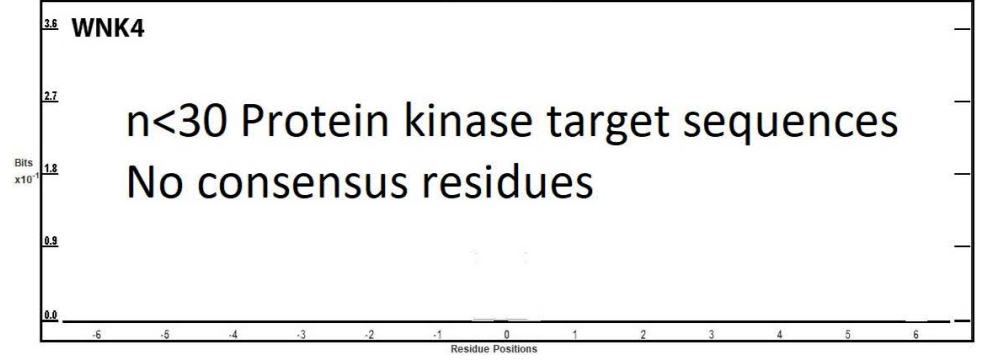
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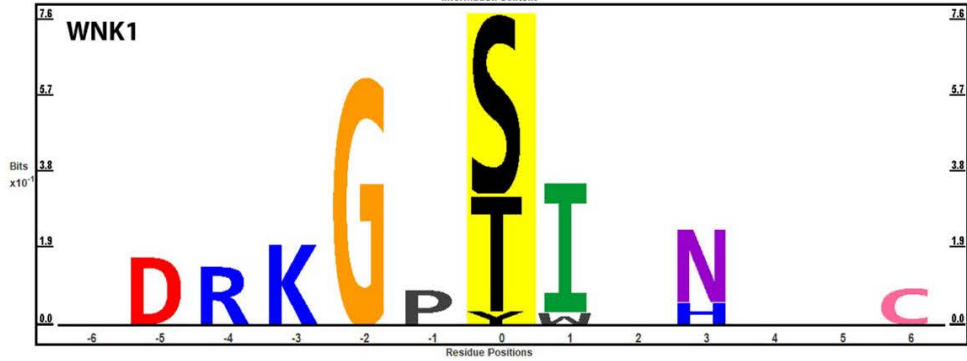
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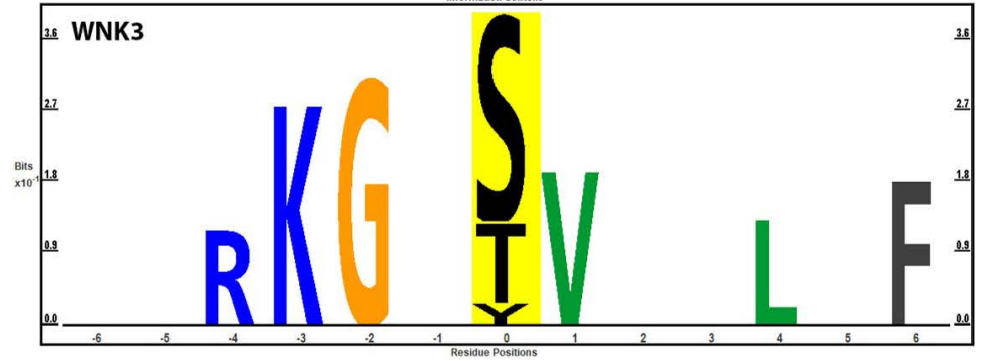
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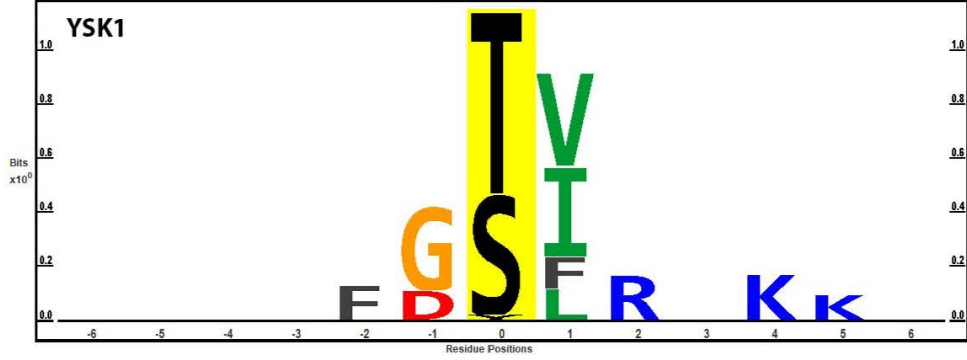
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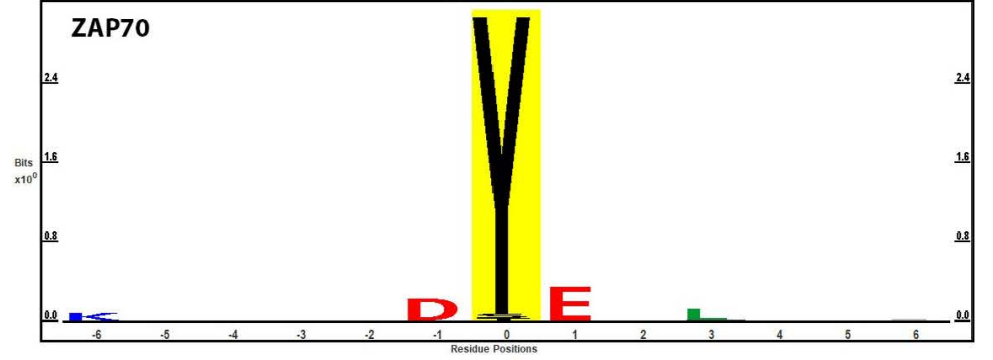
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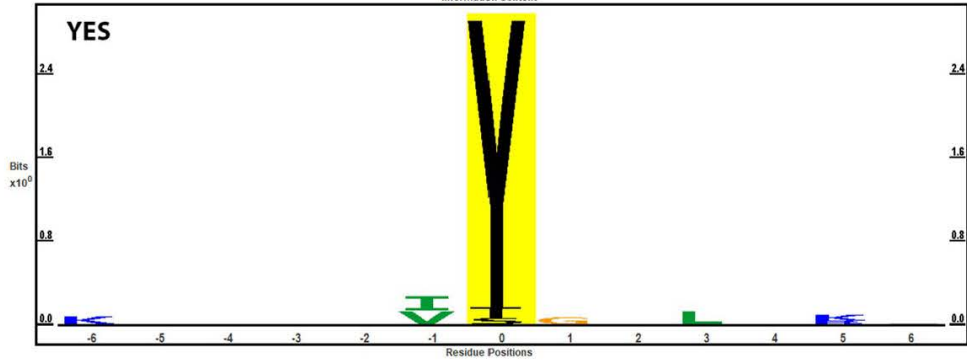
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