



Supplementary Fig. S6. The Sequence logo of Sec/SPIII generated with (A) known Sec/SPIII sequences (represented by information content) and (B) predicted Sec/SPIII sequence patterns via LoRA-tuned ESM2-3B (represented by attention weights). (C) Comparison between the gold-standard sequence logo and the predicted sequence pattern using Spearman's Rank Correlation between information content and attention weights. Each dot represents one position on the sequence.