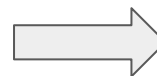# Example prediction made by SUMO-NN

>sp|Q9C091|GRB1L_HUMAN GREB1-like protein
MGNSYAGQLKSARFEEALHNSIEASLRCSSVVPRPIFSQLYLDPDQHPFSSADVKPKVED
......
DLKKFKFLKGATLCVICQDRSSLRQTIVRLELEDEWQFRLRDEFQTANSSDDKPLYFLTG
RHV

Extract 15mers centered on lysines

NSYAGQL**K**SARFEEA

PFSSADV**K**PKVEDLD

. . . . .

LKKFKFL**K**GATLCVI

TANSSDD**K**PLYFLTG

SUMO-NN architecture
- Embedding
- LSTM
- Linear

Positive predictions
TEKLAGV**K**QEVIKES
QHIEATP**K**IVHYAIL

Negative predictions
NSYAGQL**K**SARFEEA
. . . . .
TANSSDD**K**PLYFLTG

Receiver Operating Characteristic

True Positive Rate

False Positive Rate

AUC = 0.66