

S1 Table: Results of 30 times 10-fold cross-validation of NN-RNALoc (with and without employing PPI information) compared with RNATracker(fixed length mode) and mRNALoc on the human part of RNALocate dataset.

| Methods | NN-RNALoc | | | | | NN-RNALoc(noPPI) | | | | | RNATracker | | | | | mRNALoc | | | | |
|------------------|-------------|-------------|-------------|------|------|------------------|------|------|------|-------------|------------|------|------|------|------|---------|------|------|------|-------------|
| | Cyt | ER | EX | Mit | Nuc | Cyt | ER | EX | Mit | Nuc | Cyt | ER | EX | Mit | Nuc | Cyt | ER | EX | Mit | Nuc |
| Precision | 0.74 | 0.56 | 0.91 | 0.00 | 0.52 | 0.65 | 0.40 | 0.00 | 0.00 | 0.61 | 0.66 | 0.52 | 0.00 | 0.00 | 0.49 | 0.74 | 0.46 | 0.00 | 0.00 | 0.52 |
| Recall | 0.72 | 0.48 | 0.04 | 0.00 | 0.70 | 0.84 | 0.14 | 0.00 | 0.00 | 0.51 | 0.59 | 0.06 | 0.00 | 0.00 | 0.54 | 0.61 | 0.50 | 0.00 | 0.00 | 0.72 |
| F-score | 0.74 | 0.52 | 0.07 | 0.00 | 0.60 | 0.73 | 0.21 | 0.00 | 0.00 | 0.56 | 0.73 | 0.11 | 0.00 | 0.00 | 0.53 | 0.67 | 0.48 | 0.00 | 0.00 | 0.61 |
| Average Accuracy | 0.65 | | | | | 0.63 | | | | | 0.63 | | | | | 0.61 | | | | |
| Average MCC | 0.40 | | | | | 0.30 | | | | | 0.34 | | | | | 0.37 | | | | |

The names of compartments are abbreviated as Cyt : Cytosol, ER: Endoplasmic Reticulum, EX : Extracellular Region, Mit :Mitochondria, Nuc: Nucleus.