

# **Predict Pairwise Protein-Protein Interaction**

## Submit Protein Sequences

(1) **SELECT**

### ☒ Predict Pairwise Protein-Protein Interaction

Protein Sequence 1

Enter Protein 1 Sequence...

Protein Sequence 2

Enter Protein 2 Sequence...

(2) **SELECT  
EXAMPLE  
SEQUENCES**

Predict Interaction

Reset

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### ☐ Predict PPI Among Different Group

Protein Sequences Group 1

[Choose file](#) No file chosen

Protein Sequences Group 2

[Choose file](#) No file chosen

Predict Interaction

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### ☐ Predict PPI Among Single Group

Select File Containing Protein Sequences

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**COPY  
SEQUENCE1  
AND  
SEQUENCE 2**

## Select --> copy --> paste "ONLY" the Example Protein Sequences

#Protein Sequence 1

MRRETVGFEFSSDDDDILLELGTRPPRFQTQIPSSAALQTQIPTTLEVTITTTLNKQSKNDQLVNQLNKAQGEASMLRDKI  
NFLNIEREKEKNIQAVKVNELQVKHLQELAKLKQELQKLEDEKKFLQMEARGKSKREVITMVKPPSTTLSTNTNITPSSS  
VAIEAKPQSPQSKKRKISDNLLKKNMVPLNPNRIIPDETSLFLESILLHQIIGADLSTIEILNRLKLDVITEFKFKNFVIAK  
GAPIGKSIVSLLRCKKTLTDRFIDTLLEDIAVLKEISVHPNESKLAVPFLVALMYQIVQFRPSATHNLALKDCFLFICD  
LIRIYHHVLKVPIHESNMNLHVEPQIFQYELIDYLIISYSFDLLEGILRVLQSHPKQTYMEFFDENILKSFEFVYKLALTIS  
YKPMNVVIFSAREVNIITSIIINWDNSSDLKSLISGSMWRDCITRLYALLEKEIKSGDVYNEMVDTTTLHMSKYHDFGLI  
RNIGDNELGGLISKLIYTDRLQSVPRVISKEDIGMDSOKFTAPIIGYKMEKWLKLDKDEVLNIFENLMIYGGDOATIVNGEM  
LIHSSKFLSREQALMIERYVGGQSPNLDLRCHLIEHTLTIIYRLWKDHFQKLREEQIKQVESQLIMSLWRFLVCQTETVTAN  
EREMRDHRHLVDSLHDLTIKQASYYEDAFEDLPEYIEELKMQLNKRTGRIMQVKYDEKQEMARTILESKSFDLTTLEEA  
DSLYISNGL

#Protein Sequence 2

MLSAISKVSTLKSCTRYLTKCNYHASAKLLAVKTFSPMAPSPTMEKGGIVSWKYKVGEPFSAGDVILEVETDKSQIDVEALD  
DGKLAKILKDEGSKDQVDVGEPTIAYIADVDDDLATIKLPQEANTANAKSIEIKKPSADSTEATQCHLKKATVTPIKTVGGSQA  
NLEQTLTPSVSLLLAENNISKQKALKETIAPSGSNGRLLKGDVLAYLGKIPQDSVNVKVFTEFIKKNERLDLSNIKPIQLKPKIA  
EQAQTKAADKPKITPVEFEEQLVFHAPASIPFDKLSLSNSFMKEAYQFSGHTPLMDTNSKYFDPFEDLVTLSPREPFRKF  
SYDLMQIPKANMQDTYQEDIIDLLTGSDATASSVRPVEKNLPEKNEYILALNVSVNNKFNDAEAKAKRFLDYVRELESF

## Submit Protein Sequences

### ☒ Predict Pairwise Protein-Protein Interaction

Protein Sequence 1

```
MRRETVGFEFSDDDDILLLELGRPRPFTQIPSSAALQTQIPPTLEVTTTLNNKQSKNDQLVNQLNK
AQGEASMLRDKI
NFLNIEREKEKNEDQAVKVNELQVKHLQELAKLKQELQKLEDEKKFLQMEARGSKREVITNKKPSTLS
TNTINTITPOSSS
```

Protein Sequence 2

```
EQAQTKAADKPKLTPVEFEQQLVFHAPASIPFDKLSSELSNFMKEAYQFSHGTPMDTNSKYFQPIFEDL
VTLSPREPRKF
SYBLMQIPKANMQDTYQEDIFDLLTGSDATASSVRPVEKNLPEKNEYILALNNVSWNNKKFNDAEAKAK
PQVYVRELESF
```

(1) PASTE  
SEQUENCE1  
AND  
SEQUENCE 2

Predict Interaction

Reset

Download Example Sequences

(2) SELECT  
PREDICT  
INTERACTION

### ☐ Predict PPI Among Different Group

Protein Sequences Group 1

Choose file No file chosen

Protein Sequences Group 2

Choose file No file chosen

Predict Interaction

Reset

Download Example group 1

Download Example group 2

### ☒ Predict PPI Among Single Group

Select File Containing Protein Sequences

Choose file No file chosen

Predict Interaction

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## PREDICTION RESULT

**Prediction:** Probability of interaction **8.897286%**

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# **Predict PPI Among Different Group**

## Submit Protein Sequences

☒ **Predict Pairwise Protein-Protein Interaction**

Protein Sequence 1

Protein Sequence 2

ACTIVATE

Predict Interaction

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☐ **Predict PPI Among Different Group**

Protein Sequences Group 1

Protein Sequences Group 2

Predict Interaction

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[Download Example group 2](#)

☐ **Predict PPI Among Single Group**

Select File Containing Protein Sequences

Predict Interaction

Reset

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## Submit Protein Sequences

### ☐ Predict Pairwise Protein-Protein Interaction

Protein Sequence 1

Enter Protein 1 Sequence...

Protein Sequence 2

Enter Protein 2 Sequence...

Predict Interaction

Reset

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### ☒ Predict PPI Among Different Group

Protein Sequences Group 1

Choose file No file chosen

Protein Sequences Group 2

Choose file PPI\_ex\_group2.fasta

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EXAMPLE FILES**

Predict Interaction

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Download Example group 1

Download Example group 2

### ☐ Predict PPI Among Single Group

Select File Containing Protein Sequences

Choose file No file chosen

Predict Interaction

Reset

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## Submit Protein Sequences

### ☐ Predict Pairwise Protein-Protein Interaction

Protein Sequence 1

Enter Protein 1 Sequence...

Protein Sequence 2

Enter Protein 2 Sequence...

Predict Interaction

Reset

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### ☒ Predict PPI Among Different Group

Protein Sequences Group 1

[Choose file](#) PPI\_ex\_group1.fasta

Protein Sequences Group 2

[Choose file](#) PPI\_ex\_group2.fasta

Predict Interaction

Reset

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[Download Example group 2](#)

### ☐ Predict PPI Among Single Group

Select File Containing Protein Sequences

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Predict Interaction

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EXAMPLE  
FILES**

## Submit Protein Sequences

### ● Predict Pairwise Protein-Protein Interaction

Protein Sequence 1

Enter Protein 1 Sequence

Protein Sequence 2

Enter Protein 2 Sequence

Predict Interaction

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### ● Predict PPI Among Different Group

Protein Sequences Group 1

Choose file PPI\_ex\_group1.fasta

Protein Sequences Group 2

Choose file PPI\_ex\_group2.fasta

Predict Interaction

Reset

Download Example group 1

Download Example group 2

**WAIT  
FOR  
EXECUTION**

### ○ Predict PPI Among Single Group

Select File Containing Protein Sequences

Choose file No file chosen

Predict Interaction

Reset

Download Example group

Protein-Protein Interaction Table

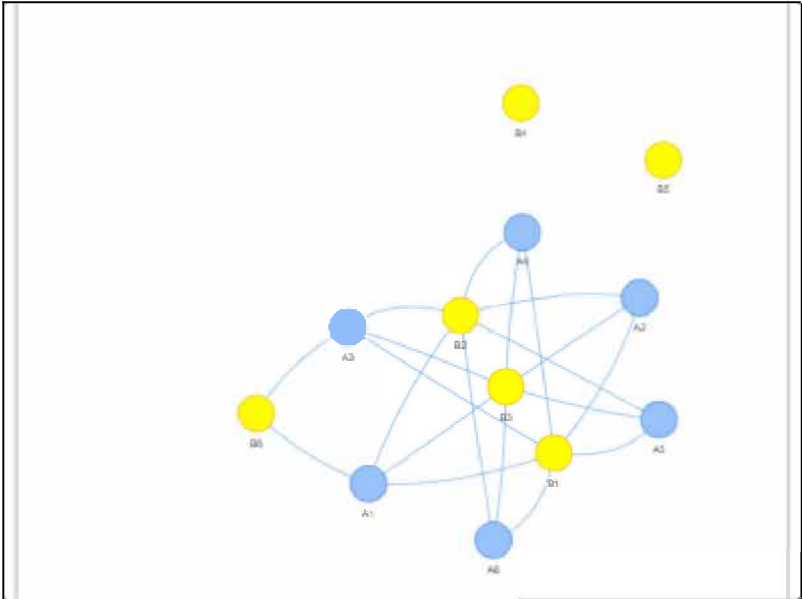
| Protein1 name | id 1 | Protein2 name | id 2 | Interaction Probability(%) |
|---------------|------|---------------|------|----------------------------|
| Protein 1B    | A1   | Protein 1A    | B1   | 99.151695%                 |
| Protein 1B    | A1   | Protein 2A    | B2   | 99.860935%                 |
| Protein 1B    | A1   | Protein 3A    | B3   | 99.445816%                 |
| Protein 1B    | A1   | Protein 4A    | B4   | 23.484303%                 |
| Protein 1B    | A1   | Protein 5A    | B5   | 18.309414%                 |
| Protein 1B    | A1   | Protein 6A    | B6   | 62.091564%                 |
| Protein 2B    | A2   | Protein 1A    | B1   | 99.649254%                 |
| Protein 2B    | A2   | Protein 2A    | B2   | 99.93794%                  |
| Protein 2B    | A2   | Protein 3A    | B3   | 99.7226%                   |
| Protein 2B    | A2   | Protein 4A    | B4   | 4.003219%                  |
| Protein 2B    | A2   | Protein 5A    | B5   | 5.5040655%                 |
| Protein 2B    | A2   | Protein 6A    | B6   | 43.705635%                 |
| Protein 3B    | A3   | Protein 1A    | B1   | 99.758835%                 |

PPI  
INTERACTION  
TABLE

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Protein-Protein Interaction Network



INTERACTIVE  
INTERACTION  
NETWORK

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NETWORK

# **Predict PPI Among Single Group**

## Submit Protein Sequences

### ☒ Predict Pairwise Protein-Protein Interaction

Protein Sequence 1

Enter Protein 1 Sequence...

Protein Sequence 2

Enter Protein 2 Sequence...

Predict Interaction

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### ☐ Predict PPI Among Different Group

Protein Sequences Group 1

[Choose file](#) No file chosen

Protein Sequences Group 2

[Choose file](#) No file chosen

Predict Interaction

Reset

[Download Example group 1](#)

[Download Example group 2](#)

(1) SELECT

### ☒ Predict PPI Among Single Group

Select File Containing Protein Sequences

[Choose file](#) No file chosen

(2)

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EXAMPLE  
FILE

Predict Interaction

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## Submit Protein Sequences

### ☐ Predict Pairwise Protein-Protein Interaction

Protein Sequence 1

Enter Protein 1 Sequence...

Protein Sequence 2

Enter Protein 2 Sequence...

Predict Interaction

Reset

[Download Example Sequences](#)

### ☐ Predict PPI Among Different Group

Protein Sequences Group 1

[Choose file](#) No file chosen

Protein Sequences Group 2

[Choose file](#) No file chosen

Predict Interaction

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[Download Example group 2](#)

### ☒ Predict PPI Among Single Group

Select File Containing Protein Sequences

[Choose file](#) PPI\_ex\_group\_single.fasta

**LOAD  
EXAMPLE  
FILE**

Predict Interaction

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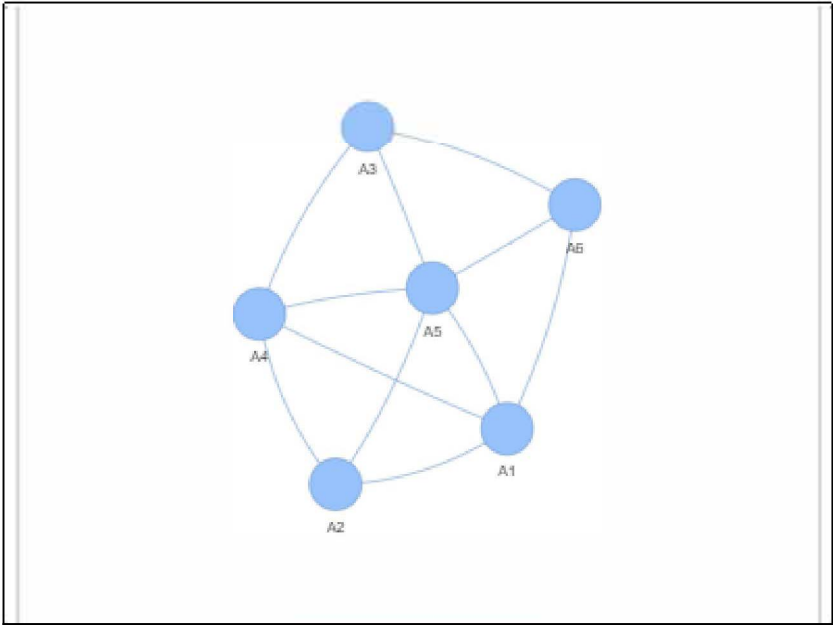
Protein-Protein Interaction Table

| Protein1 name | id 1 | Protein2 name | id 2 | Interaction Probability(%) |
|---------------|------|---------------|------|----------------------------|
| Protein 1B    | A1   | Protein 2B    | A2   | 99.458275%                 |
| Protein 1B    | A1   | Protein 3B    | A3   | 24.830032%                 |
| Protein 1B    | A1   | Protein 4B    | A4   | 79.038574%                 |
| Protein 1B    | A1   | Protein 5B    | A5   | 99.11259%                  |
| Protein 1B    | A1   | Protein 6B    | A6   | 52.103622%                 |
| Protein 2B    | A2   | Protein 3B    | A3   | 18.596075%                 |
| Protein 2B    | A2   | Protein 4B    | A4   | 91.48302%                  |
| Protein 2B    | A2   | Protein 5B    | A5   | 99.66197%                  |
| Protein 2B    | A2   | Protein 6B    | A6   | 43.903683%                 |
| Protein 3B    | A3   | Protein 4B    | A4   | 93.67606%                  |
| Protein 3B    | A3   | Protein 5B    | A5   | 99.60939%                  |
| Protein 3B    | A3   | Protein 6B    | A6   | 67.780975%                 |
| Protein 4B    | A4   | Protein 5B    | A5   | 99.430001%                 |
| Protein 4B    | A4   | Protein 6B    | A6   | 88.430001%                 |
| Protein 5B    | A5   | Protein 6B    | A6   | 99.430001%                 |

PPI  
INTERACTION  
TABLE

Download TSV Table

Protein-Protein Interaction Network



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INTERACTION  
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