**Table 3 Summary of the commonly used protein annotation databases**

|  |  |  |  |
| --- | --- | --- | --- |
| **Database** | **Number of Proteins** | **Short description** | **URL** |
| Uniprot | Unknown | Provides the high-quality, comprehensive, and freely available resource of protein sequence and functional information | https://www.uniprot.org/ |
| String[80] | 59309604 | Provides protein-protein interaction networks and functional enrichment analysis | https://cn.string-db.org/ |
| NCBI Protein | Unknown | Records protein annotations collected from other database, like GenBank, RefSeq, TPA, etc. | https://www.ncbi.nlm.nih.gov/protein/ |
| HPRD 9.0[81] | 30047 | Provides the information of domain architecture, post-translational modifications, interaction networks and disease association for each protein in the human proteome | http://www.hprd.org/ |
| RBPWorld /EuRBPDB V2[82] | 1393686 | provides precise and comprehensive list of RBPs of each eukaryote with annotations collected from various public databases. | http://research.gzsys.org.cn/eurbpdb2/index.html |