module_2_oa1

April 10, 2025

[8]:
```
from chembl_webresource_client.new_client import new_client
from tqdm import tqdm
```

[9]:
```
resources = [res for res in dir(new_client) if not res.startswith('_')]
print(resources)
```

```
['activity', 'activity_supplementary_data_by_activity', 'assay', 'assay_class',
'atc_class', 'binding_site', 'biotherapeutic', 'cell_line', 'chembl_id_lookup',
'chembl_release', 'compound_record', 'compound_structural_alert', 'description',
'document', 'document_similarity', 'drug', 'drug_indication', 'drug_warning',
'go_slim', 'image', 'mechanism', 'metabolism', 'molecule', 'molecule_form',
'official', 'organism', 'protein_classification', 'similarity', 'source',
'substructure', 'target', 'target_component', 'target_relation', 'tissue',
'xref_source']
```

1 1.

1.0.1 Retrieve all approved drugs from the ChEMBL database, sort them by approval year and name

[10]:
```
from chembl_webresource_client.new_client import new_client
import pandas as pd

approved_molecules = new_client.molecule.filter(max_phase=4,␣
 ↪molecule_type="Small molecule")
```

[11]:
```
drug_list = []

for mol in approved_molecules:
    if mol.get("first_approval") and mol.get("pref_name"):
        drug_list.append({
            'name': mol['pref_name'],
            'chembl_id': mol['molecule_chembl_id'],
            'approval_year': mol['first_approval']
        })

df = pd.DataFrame(drug_list)
```

```
df = df.sort_values(by=['approval_year', 'name'])

print(df.head(20))
```

```
                              name      chembl_id  approval_year
74                     BUTABARBITAL      CHEMBL449           1939
1762            BUTABARBITAL SODIUM  CHEMBL1200982           1939
1493   DESOXYCORTICOSTERONE ACETATE  CHEMBL1200542           1939
445                       GUANIDINE      CHEMBL821           1939
1600        GUANIDINE HYDROCHLORIDE  CHEMBL1200728           1939
144                       HISTAMINE       CHEMBL90           1939
2661            HISTAMINE PHOSPHATE  CHEMBL3989520           1939
351                   SULFAPYRIDINE      CHEMBL700           1939
2115                  AMINOPHYLLINE  CHEMBL1370561           1940
967                    THEOPHYLLINE      CHEMBL190           1940
1061                 ERGOCALCIFEROL     CHEMBL1536           1941
60                     SULFADIAZINE      CHEMBL439           1941
1379            SULFADIAZINE SODIUM  CHEMBL1200351           1941
260                     MEPERIDINE      CHEMBL607           1942
1226       MEPERIDINE HYDROCHLORIDE     CHEMBL1701           1942
1675      HOMATROPINE METHYLBROMIDE  CHEMBL1200851           1943
971                     HYDROCODONE     CHEMBL1457           1943
2679         HYDROCODONE BITARTRATE  CHEMBL3989677           1943
1898                METHAMPHETAMINE  CHEMBL1201201           1943
1739  METHAMPHETAMINE HYDROCHLORIDE  CHEMBL1200952           1943
```

2 2.

2.0.1 For each approved drug since 2014 that you identified in step (1), retrieve a list of UniProt accession numbers, namely protein targets associated with the drug;

[12]:
```
print(df.loc[df['approval_year'] >= 2014].head(20))
```

```
                              name      chembl_id  approval_year
1135                    APREMILAST   CHEMBL514800           2014
2329                  ASUNAPREVIR  CHEMBL2105735           2014
1050                     ATALUREN   CHEMBL256997           2014
1071                   BELINOSTAT   CHEMBL408513           2014
2293                  CEFTOLOZANE  CHEMBL2103872           2014
2057           CEFTOLOZANE SULFATE  CHEMBL1213250           2014
2479                     CERITINIB  CHEMBL2403108           2014
2229                  DACLATASVIR  CHEMBL2023898           2014
2444   DACLATASVIR DIHYDROCHLORIDE  CHEMBL2303621           2014
2506                     DASABUVIR  CHEMBL3137312           2014
2581  DASABUVIR SODIUM MONOHYDRATE  CHEMBL3544985           2014
```

```
925                    DELAMANID   CHEMBL218650          2014
2286                   DROXIDOPA  CHEMBL2103827          2014
2296                EFINACONAZOLE  CHEMBL2103877          2014
2397                   ELIGLUSTAT  CHEMBL2110588          2014
2760          ELIGLUSTAT TARTRATE  CHEMBL4297066          2014
2374                EMPAGLIFLOZIN  CHEMBL2107830          2014
2550               FERRIC CITRATE  CHEMBL3301597          2014
2745     FERRIC CITRATE ANHYDROUS  CHEMBL3991241          2014
2203                   FINAFLOXACIN  CHEMBL1908370          2014
```

[13]:
```python
from chembl_webresource_client.new_client import new_client


def get_uniprot_ids_for_chembl(chembl_id):
    """Return a set of UniProt IDs for protein targets of the given ChEMBL␣
 ↪molecule."""
    uniprot_ids = set()
    mechanisms = new_client.mechanism.filter(molecule_chembl_id=chembl_id)

    for mech in mechanisms:
        target_id = mech.get("target_chembl_id")
        if target_id:
            target = new_client.target.get(target_id)
            for comp in target.get("target_components", []):
                for xref in comp.get("target_component_xrefs", []):
                    if xref.get("xref_src_db") == "UniProt":
                        uniprot_ids.add(xref["xref_id"])

    return uniprot_ids


chembl_ids = df.loc[df['approval_year'] >= 2014]['chembl_id'].tolist()

chembl_to_uniprot = {
    chembl_id: get_uniprot_ids_for_chembl(chembl_id)
    for chembl_id in chembl_ids
}

for chembl_id, uniprot_set in chembl_to_uniprot.items():
    print(f"{chembl_id}: {', '.join(sorted(uniprot_set)) if uniprot_set else␣
 ↪'No UniProt targets found'}")
```

```
CHEMBL514800: A5YW33, B3KTC4, O15443, O43433, O75522, O76092, P27815, Q07343,
Q08493, Q08499, Q13549, Q13550, Q13551, Q13945, Q16255, Q16691, Q5DM53, Q5TEK4,
Q5TEK5, Q5TEK6, Q6PMT2, Q7Z2L8, Q8IV84, Q8IVA7, Q8IVA9, Q8IVD2, Q8IVD3, Q8WUQ3,
Q96HL4, Q9H3H2, Q9HCX7, Q9UN44, Q9UN45, Q9UN46, Q9UPJ6
CHEMBL2105735: A3EZI9, D2K2A8
CHEMBL256997: A3KQT0, A5D8V9, A6NG21, A6NIB2, A8K094, A8K0H3, A8K4V7, A8K502,
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A8K504, A8K505, A8K9V4, A8MZ73, A9C4C1, B2R495, B2R4A6, B2R4B3, B2R4D4, B2R4E3, B2R4F0, B2R4F4, B2R4F5, B2R4H2, B2R4H3, B2R4K2, B2R4M7, B2R4M8, B2R4Q3, B2R4T2, B2R4U4, B2R4Y1, B2R4Y3, B2R549, B2R591, B2R5A8, B2R5B2, B2R5G0, B2R5G5, B2R7N5, B2R801, B2RDD5, B2RDV9, B4DEP9, B4DLX3, B4DW28, B4E3C2, B5ME31, B7Z4K2, C9JB50, D3DP05, D3DQG5, D3DTR8, D3DU82, D3DVJ4, D3DWN2, D3DWW6, D6W634, E7EPK6, E9PB24, F5H1S2, F8VWC5, G5E9L2, J3KN86, J3QL51, P02248, P02249, P02250, P02383, P02403, P02404, P02433, P04643, P04645, P05386, P05388, P06366, P08227, P08526, P08708, P08865, P09058, P09896, P0CW22, P10660, P10661, P11085, P11174, P11518, P12030, P12631, P12750, P12751, P12947, P14118, P14798, P15880, P16632, P17008, P17075, P18077, P18124, P18621, P19116, P22090, P22908, P23131, P23396, P23411, P23821, P24048, P24818, P25111, P25112, P25120, P25121, P25232, P25398, P26373, P27576, P27635, P28751, P29316, P30050, P30054, P32969, P33443, P35265, P35268, P35544, P36578, P38663, P39019, P39023, P39024, P39025, P39026, P39027, P39028, P39029, P39030, P39031, P40429, P41051, P42677, P42766, P46776, P46777, P46778, P46779, P46781, P46782, P46783, P47914, P49207, P49241, P50914, P52859, P53025, P55831, P60866, P61247, P61254, P61313, P61353, P61513, P61927, P62081, P62241, P62244, P62249, P62263, P62266, P62269, P62273, P62277, P62280, P62424, P62701, P62750, P62753, P62829, P62841, P62847, P62851, P62854, P62857, P62861, P62888, P62891, P62899, P62906, P62910, P62913, P62917, P62945, P62979, P62988, P63173, P63220, P70394, P83731, P83881, P84098, Q02543, Q02546, Q02877, Q02878, Q05472, Q06722, Q07020, Q08ES5, Q08ES9, Q14727, Q15289, Q15548, Q16470, Q16471, Q16699, Q29120, Q29200, Q29246, Q2HXT7, Q2M3Q3, Q32LZ3, Q3B7A4, Q3KQT8, Q3KQU0, Q3KQW2, Q3KRA1, Q3MHD8, Q3MHD9, Q3MIB1, Q3SWV7, Q45RF0, Q498B5, Q498Y0, Q498Y6, Q4G0A9, Q4QRK7, Q4VBR0, Q4VBY5, Q4VBY7, Q502Y6, Q502Z6, Q53FH7, Q53G20, Q53HH6, Q53SQ5, Q567Q7, Q567Q8, Q57Z92, Q5BJI0, Q5I0G0, Q5I0X1, Q5J9I6, Q5JTN5, Q5M8S9, Q5SUJ3, Q5T0P7, Q5T0P8, Q5T4L6, Q5T8U4, Q5TZC0, Q5TZT6, Q5U0C0, Q5VVV2, Q642I1, Q6FG66, Q6FGF5, Q6FGN8, Q6FIG1, Q6IAY0, Q6IB08, Q6IBB4, Q6IBC7, Q6IBD1, Q6IBM9, Q6IBS3, Q6IPD1, Q6IPD2, Q6IPF8, Q6IPH1, Q6IPX6, Q6IPY2, Q6IPY3, Q6IPY4, Q6IRL7, Q6IRY0, Q6IRY4, Q6IRZ0, Q6LBJ6, Q6LBL4, Q6LDU5, Q6NSD1, Q6NXQ8, Q6NZ54, Q6P5S1, Q6PB27, Q76M58, Q7M4M5, Q7Z3D1, Q7Z6E4, Q86VC0, Q8C023, Q8J013, Q8N6Z7, Q8NI95, Q8TBD5, Q8TDA5, Q8TDH2, Q8WTZ6, Q8WUT0, Q8WW97, Q8WYN8, Q8WYP2, Q91887, Q91888, Q92579, Q92774, Q95261, Q969V7, Q969Z9, Q96BN0, Q96C44, Q96FX1, Q96GR0, Q96QJ7, Q99883, Q9BPX0, Q9BQ77, Q9BSB8, Q9BUZ2, Q9BV24, Q9BVK4, Q9BVN7, Q9BVZ0, Q9BW65, Q9BWD6, Q9BWQ0, Q9BWQ9, Q9BX98, Q9BYF2, Q9BYF4, Q9BYF6, Q9H2E5, Q9H3F4, Q9H5V4, Q9UDC2, Q9UEF2, Q9UEG1, Q9UEK8, Q9UPK7, Q9UQF6, Q9Y3U8, Q9Y674

CHEMBL408513: A6ND12, A6ND61, A6NET3, A6NJR3, A7E2F3, A8MQ62, B3KRS5, B3KY08, B4DDK1, B4DKN0, B4DL58, B4DV22, B4DWI0, B4E0Q5, B7Z4I4, B7Z917, B7Z928, B7Z940, C9JFV9, C9JS87, D3DQE1, E1P561, E7EX34, E9PGB9, F5GX36, F8W9E0, O15379, O43268, O60340, O60528, O94845, O94975, O95028, P56524, Q08AP4, Q13547, Q2M2R6, Q5SRI8, Q5SZ86, Q6NT75, Q6P1W9, Q6STF9, Q6W9G7, Q7L3E5, Q7Z4K2, Q7Z5I1, Q86SL1, Q86US3, Q86VC8, Q86YH7, Q8NEH4, Q8WUI4, Q92534, Q92769, Q969S8, Q96CY0, Q96DB2, Q96DY4, Q96K01, Q96P77, Q96P78, Q9BR73, Q9BY41, Q9H028, Q9H6I7, Q9H6X3, Q9H7L0, Q9NP76, Q9NTC9, Q9NW41, Q9NWA9, Q9NYH4, Q9NYK9, Q9UBN7, Q9UEI5, Q9UEV0, Q9UFU7, Q9UGX1, Q9UGX2, Q9UKV0, Q9UND6, Q9UQL6

CHEMBL2103872: No UniProt targets found

CHEMBL1213250: A0A7H2C765, P02918, P02919, P04286, P04287, P08150, P08506, P0AD65, P0AD68, P0AEB2, P24228, P75664, P76688, P77106, P77287, Q2M761, Q2M930

CHEMBL2403108: A6H8Y6, A6P4T4, A6P4V4, A8K3N7, B2RBK3, B2RTW7, B5BU00, B5MCW9,

D3DQL6, P06748, P08693, Q12826, Q13440, Q13441, Q14115, Q3SWW0, Q4ZFX9, Q53QQ6,
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Q6PJ45, Q6V962, Q8WTW5, Q96AT6, Q96DC4, Q96EA5, Q9BYG9, Q9HC35, Q9NV40, Q9UDJ7,
Q9UM73, Q9Y4K6
CHEMBL2023898: No UniProt targets found
CHEMBL2303621: Q5L478
CHEMBL3137312: No UniProt targets found
CHEMBL3544985: Q8JXU8
CHEMBL218650: No UniProt targets found
CHEMBL2103827: A2RUS0, A8K0I3, B0LPE1, B0LPE2, B0LPE4, B0LPF6, B0ZBD1, B0ZBD2,
B0ZBD4, B0ZBD5, B0ZBD6, B0ZBD8, B0ZBD9, B2R7X2, O14823, O14824, O14825, O14826,
O60451, P07550, P08588, P08913, P13945, P18089, P18825, P25100, P35348, P35368,
P35369, Q13675, Q13729, Q2I8G2, Q2XN99, Q4JFT4, Q4JG18, Q4TUH9, Q4VBM7, Q53GA6,
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Q8NEQ9, Q96EC3, Q96RE8, Q9BZK0, Q9BZK1, Q9HB49, Q9NPY0, Q9UCZ0, Q9UCZ1, Q9UCZ2,
Q9UCZ3, Q9UD63, Q9UD67, Q9UH95, Q9UHA1, Q9UKG7, Q9UKG8, Q9UMZ5
CHEMBL2103877: F2SHH3
CHEMBL2110588: No UniProt targets found
CHEMBL4297066: Q16739, Q5T258
CHEMBL2107830: A2RRD2, P31639
CHEMBL3301597: No UniProt targets found
CHEMBL3991241: No UniProt targets found
CHEMBL1908370: P0A0K8, P0A0L0, P0C1S7, P0C1U9, P20831, P20832, P48372, P50072,
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CHEMBL1908906: No UniProt targets found
CHEMBL566752: No UniProt targets found
CHEMBL2216870: A6NCG0, G1FFP1, O00329, O15445, Q5SR49
CHEMBL2018096: A2RRD2, P31639
CHEMBL2374220: Q5L478
CHEMBL125: No UniProt targets found
CHEMBL2219418: No UniProt targets found
CHEMBL2219416: B0FXJ1, B2R9S7, B8Q1L7, B8Q1L8, B8Q1L9, E7EWZ3, G8XRH6, G8XRH8,
P35372, Q12930, Q4VWM1, Q4VWM2, Q4VWM3, Q4VWM4, Q4VWM6, Q4VWX6, Q5TDA1, Q6UPP1,
Q6UQ80, Q7Z2D8, Q86V80, Q8IWW3, Q8IWW4, Q9UCZ4, Q9UN57
CHEMBL206253: A8K150, P25103
CHEMBL502835: No UniProt targets found
CHEMBL3039504: A2RRS0, A3E342, A3E344, A8K6L4, A8K6T9, A8K8V5, A8KA71, B0LPF1,
B2BF46, B2BF47, B2BF48, B2RE69, B3FR89, B4DFC2, B5A923, B5A925, B5A926, B5A957,
C1KBH8, C5IFA0, D3DVP9, D3DVQ0, E7EVR6, E9PBH0, E9PCR0, F5H5L6, G3JVM2, G3JVM5,
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P17948, P18443, P21802, P22455, P22607, P35916, P35968, Q01742, Q02063, Q02065,
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Q53H63, Q59FL9, Q59H40, Q5BJG2, Q6P4H5, Q71TW8, Q86W07, Q86W08, Q86YI4, Q8IXC7,
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Q9NZU3, Q9UD01, Q9UD02, Q9UD28, Q9UD50, Q9UDF0, Q9UDF1, Q9UDF2, Q9UIH3, Q9UIH4,
Q9UIH5, Q9UIH6, Q9UIH7, Q9UIH8, Q9UM87, Q9UMC6, Q9UNS7, Q9UQH7, Q9UQH8, Q9UQH9,
Q9UQI0

CHEMBL521686: B1ANJ4, P09874, Q8IUZ9, Q8NER9, Q8TEU4, Q96CG2, Q9NUV2, Q9UG81, Q9UGN5, Q9UMR4, Q9Y6C8, Q9Y6F1
CHEMBL605846: No UniProt targets found
CHEMBL2105743: B0LPE4, B2R7X2, O14823, O14824, O14825, O14826, P07550, Q4JG18, Q53GA6, Q6GMT4, Q6P4D8, Q8NEQ9, Q96EC3, Q9UCZ0, Q9UCZ1, Q9UCZ2, Q9UCZ3, Q9UH95, Q9UHA1, Q9UMZ5
CHEMBL3127326: Q5L478
CHEMBL3137327: No UniProt targets found
CHEMBL3391662: A3EZI9, D2K2A8
CHEMBL3989402: A4GXH6, P03468, P03474, Q20N35, Q84043, Q8JUU4
CHEMBL139367: No UniProt targets found
CHEMBL3039567: No UniProt targets found
CHEMBL3040581: No UniProt targets found
CHEMBL1083659: A8K3A6, O43613, O43614, Q5VTM0, Q9HBV6
CHEMBL2103822: A0AVC5, B0M0L2, P48039, P49286
CHEMBL443052: F2SF18
CHEMBL2105669: O54299, P02349, P02351, P02352, P02354, P02356, P02358, P02359, P02361, P02363, P02364, P02366, P02367, P02369, P02370, P02371, P02372, P02373, P02374, P02375, P02378, P02379, P02384, P02386, P02387, P02388, P02389, P02390, P02392, P02408, P02409, P02410, P02411, P02413, P02414, P02416, P02419, P02420, P02421, P02422, P02423, P02424, P02425, P02426, P02427, P02428, P02429, P02430, P02432, P02435, P02436, P02437, P07085, P0A7J3, P0A7J7, P0A7K2, P0A7K6, P0A7L0, P0A7L3, P0A7L8, P0A7M2, P0A7M6, P0A7M9, P0A7N1, P0A7N4, P0A7N9, P0A7P5, P0A7Q1, P0A7Q6, P0A7R5, P0A7R9, P0A7S3, P0A7S9, P0A7T3, P0A7T7, P0A7U3, P0A7U7, P0A7V0, P0A7V3, P0A7V8, P0A7W1, P0A7W7, P0A7X3, P0AA10, P0ADY3, P0ADY7, P0ADZ0, P0ADZ4, P0AG44, P0AG48, P0AG51, P0AG55, P0AG59, P0AG63, P0AG67, P0C018, P21194, P37438, P60422, P60438, P60624, P60723, P61175, P62399, P68679, P68919, P71302, P76778, P77006, P77352, P78275, Q2EEQ2, Q2M6A3, Q2M6A5, Q2M6V9, Q2M6W1, Q2M6W2, Q2M6W3, Q2M6W4, Q2M6W6, Q2M6W7, Q2M6W8, Q2M6W9, Q2M6X0, Q2M6X1, Q2M6X2, Q2M6X3, Q2M6X4, Q2M6X5, Q2M6X6, Q2M6X7, Q2M6X8, Q2M6X9, Q2M6Y0, Q2M6Y1, Q2M6Y2, Q2M6Y3, Q2M6Y4, Q2M6Y5, Q2M6Y6, Q2M706, Q2M707, Q2M7V0, Q2M7V1, Q2M815, Q2M8N2, Q2M8R9, Q2M8S0, Q2M8S1, Q2M8S2, Q2M8Y2, Q2M8Y3, Q2M926, Q2M927, Q2M945, Q2M9E0, Q2MAQ6, Q2MCC5, Q2MCC6, Q47253, Q8ZI69, Q9F5N3, Q9R2E5
CHEMBL2107067: A0A0B4J1T2, A2RUN2, B1AKD7, C0JKD3, C0JKD4, E7EVX6, P10275, Q9UD95
CHEMBL5315077: No UniProt targets found
CHEMBL2105711: A2RRD2, P31639
CHEMBL2110731: No UniProt targets found
CHEMBL493982: No UniProt targets found
CHEMBL2107386: P25116, Q53XV0, Q96RF7, Q9BUN4
CHEMBL1738797: No UniProt targets found
CHEMBL3707320: A6H8Y6, A6P4T4, A6P4V4, A8K6Z2, B2RBK3, B2RTW7, B5MCW9, P07949, Q15250, Q3SWW0, Q4ZFX9, Q53QQ6, Q53R29, Q53RZ4, Q53TW8, Q59FI3, Q6PJ45, Q9BTB0, Q9H4A2, Q9HC35, Q9NV40, Q9UM73, Q9Y4K6
CHEMBL5095048: No UniProt targets found
CHEMBL5095505: No UniProt targets found
CHEMBL2219425: B2RAC5, B4DZ79, F5GWE8, P08908, P14416, P28223, Q5T8C0, Q6LAE7, Q9NZR3, Q9UPA9

CHEMBL1689063: No UniProt targets found
CHEMBL2107817: P00810, P62593, Q47313
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CHEMBL406393: No UniProt targets found
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CHEMBL1289601: No UniProt targets found

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CHEMBL2105720: B7WPG1, G3XAN7, Q19PF7, Q19PF8, Q19PF9, Q19PG0, Q6UXW3, Q96DT2, Q96S37

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CHEMBL3545063: O00688, O00732, P00533, P06268, Q14225, Q68GS5, Q92795, Q9BZS2, Q9GZX1, Q9H2C9, Q9H3C9, Q9UMD7, Q9UMD8, Q9UMG5

CHEMBL189963: A4D1G0, B2R9A0, B4DNF9, O00576, P11802, P24385, Q00534, Q6FG61, Q6LEF0

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CHEMBL2107840: No UniProt targets found

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CHEMBL238804: P43119
CHEMBL2105737: No UniProt targets found
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CHEMBL2364637: Q72547
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CHEMBL3301610: A4D1G0, B2R9A0, B4DNF9, O00576, P11802, Q00534, Q6FG61
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CHEMBL3545363: A3EZI9, D2K2A8
CHEMBL71595: No UniProt targets found
CHEMBL2364612: A8K9Y0, P43088, Q2KHP3, Q6RYQ6, Q9P1X4
CHEMBL1241951: P16724, P16732, P16792, Q7M6K2, Q7M6M7, Q7M6N2
CHEMBL3707310: No UniProt targets found
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CHEMBL608533: A0AVG9, A2RRS0, A6NL64, A8K4N0, A8MU64, B0KZ81, B0LPH7, B2R834,

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3 3.

3.0.1 For each protein with a UniProt accession number that you identified in step (2), retrieve UniProt keywords associated with it.

[15]:
```python
import requests


def get_uniprot_keywords(uniprot_ids, batch_size=500):
    url = "https://rest.uniprot.org/uniprotkb/search"
    id_to_keywords = {}

    def chunked(iterable, size):
        for i in range(0, len(iterable), size):
            yield iterable[i:i+size]

    for batch in chunked(list(uniprot_ids), batch_size):
        query = " OR ".join(f"(accession:{uid})" for uid in batch)
        params = {
            "query": query,
            "format": "json",
            "fields": "accession,keyword",
            "size": batch_size
        }

        response = requests.get(url, params=params)
        response.raise_for_status()
        results = response.json()

        for entry in results.get('results', []):
            acc = entry['primaryAccession']
            keywords = [kw['name'] for kw in entry.get('keywords', [])]
            id_to_keywords[acc] = keywords

    return id_to_keywords


all_uniprot_ids = set(
    uniprot_id
    for ids in chembl_to_uniprot.values()
    for uniprot_id in ids
)

keywords_by_id = get_uniprot_keywords(all_uniprot_ids)

for acc, keywords in keywords_by_id.items():
    print(f"{acc}: {', '.join(keywords) if keywords else 'No keywords'}")
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P08865: 3D-structure, Acetylation, Cell membrane, Cytoplasm, Direct protein sequencing, Disease variant, Host cell receptor for virus entry, Host-virus interaction, Isopeptide bond, Membrane, Nucleus, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Repeat, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
P10721: 3D-structure, Alternative splicing, ATP-binding, Cell membrane, Cytoplasm, Direct protein sequencing, Disease variant, Disulfide bond, Glycoprotein, Immunoglobulin domain, Kinase, Magnesium, Membrane, Metal-binding, Nucleotide-binding, Phosphoprotein, Proteomics identification, Proto-oncogene, Receptor, Reference proteome, Repeat, Signal, Transferase, Transmembrane, Transmembrane helix, Tyrosine-protein kinase, Ubl conjugation
P19099: 3D-structure, Disease variant, Heme, Iron, Lipid metabolism, Membrane, Metal-binding, Mitochondrion, Mitochondrion inner membrane, Monooxygenase, Oxidoreductase, Proteomics identification, Reference proteome, Steroid metabolism, Steroidogenesis, Transit peptide
P22455: 3D-structure, Alternative splicing, ATP-binding, Cell membrane, Direct protein sequencing, Disulfide bond, Endoplasmic reticulum, Endosome, Glycoprotein, Immunoglobulin domain, Kinase, Membrane, Nucleotide-binding, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Repeat, Secreted, Signal, Transferase, Transmembrane, Transmembrane helix, Tyrosine-protein kinase, Ubl conjugation
P35462: 3D-structure, Alternative splicing, Cell membrane, Disulfide bond, G-protein coupled receptor, Glycoprotein, Lipoprotein, Membrane, Palmitate, Receptor, Reference proteome, Schizophrenia, Transducer, Transmembrane, Transmembrane helix
P42680: 3D-structure, Adaptive immunity, ATP-binding, Cell membrane, Cytoplasm, Cytoskeleton, Direct protein sequencing, Immunity, Kinase, Lipid-binding, Membrane, Metal-binding, Nucleotide-binding, Phosphoprotein, Proteomics identification, Reference proteome, SH2 domain, SH3 domain, Transferase, Tyrosine-protein kinase, Zinc, Zinc-finger
P62266: 3D-structure, Acetylation, Cytoplasm, Deafness, Direct protein sequencing, Disease variant, Dwarfism, Endoplasmic reticulum, Hydroxylation, Isopeptide bond, Nucleus, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
O14764: 3D-structure, Cell membrane, Chloride, Chloride channel, Disease variant, Disulfide bond, Epilepsy, Glycoprotein, Ion channel, Ion transport, Membrane, Phosphoprotein, Proteomics identification, Reference proteome, Signal, Transmembrane, Transmembrane helix, Transport
P05388: 3D-structure, Alternative splicing, Cytoplasm, Direct protein sequencing, Isopeptide bond, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
P10912: 3D-structure, Alternative splicing, Cell membrane, Direct protein sequencing, Disease variant, Disulfide bond, Dwarfism, Endocytosis, Glycoprotein, Membrane, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Secreted, Signal, Transmembrane, Transmembrane helix, Ubl conjugation
P25398: 3D-structure, Acetylation, Cytoplasm, Direct protein sequencing, Nucleus, Proteomics identification, Reference proteome, Ribonucleoprotein,

Ribosomal protein
P41143: 3D-structure, Cell membrane, Disulfide bond, G-protein coupled receptor, Glycoprotein, Lipoprotein, Membrane, Palmitate, Proteomics identification, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix, Ubl conjugation
P43405: 3D-structure, Adaptive immunity, Alternative splicing, Angiogenesis, ATP-binding, Cell membrane, Cytoplasm, Disease variant, Host-virus interaction, Immunity, Innate immunity, Kinase, Membrane, Nucleotide-binding, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, SH2 domain, Transferase, Tyrosine-protein kinase, Ubl conjugation
P61353: 3D-structure, Acetylation, Cytoplasm, Diamond-Blackfan anemia, Direct protein sequencing, Endoplasmic reticulum, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein
P62891: 3D-structure, Cytoplasm, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein
Q07869: 3D-structure, Activator, Alternative splicing, Biological rhythms, DNA-binding, Lipid-binding, Metal-binding, Nucleus, Proteomics identification, Receptor, Reference proteome, Transcription, Transcription regulation, Ubl conjugation, Zinc, Zinc-finger
Q13547: 3D-structure, Acetylation, Biological rhythms, Chromatin regulator, Hydrolase, Isopeptide bond, Metal-binding, Methylation, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Repressor, S-nitrosylation, Transcription, Transcription regulation, Ubl conjugation, Zinc
Q14145: 3D-structure, Cytoplasm, Host-virus interaction, Kelch repeat, Nucleus, Proteomics identification, Reference proteome, Repeat, S-nitrosylation, Ubl conjugation, Ubl conjugation pathway
Q99460: 3D-structure, Acetylation, Alternative splicing, Phosphoprotein, Proteasome, Proteomics identification, Reference proteome, Repeat
P08235: 3D-structure, Alternative splicing, Cytoplasm, Disease variant, DNA-binding, Endoplasmic reticulum, Lipid-binding, Membrane, Metal-binding, Nucleus, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Steroid-binding, Transcription, Transcription regulation, Zinc, Zinc-finger
P10415: 3D-structure, Alternative splicing, Apoptosis, Autophagy, Chromosomal rearrangement, Cytoplasm, Disease variant, Endoplasmic reticulum, Membrane, Mitochondrion, Mitochondrion outer membrane, Nucleus, Phosphoprotein, Proteomics identification, Proto-oncogene, Reference proteome, Transmembrane, Transmembrane helix, Ubl conjugation
P24723: 3D-structure, Alternative splicing, ATP-binding, Cytoplasm, Differentiation, Kinase, Metal-binding, Nucleotide-binding, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Serine/threonine-protein kinase, Transferase, Zinc, Zinc-finger
P25101: 3D-structure, Alternative splicing, Cell membrane, Disease variant, Disulfide bond, G-protein coupled receptor, Glycoprotein, Hypotrichosis, Membrane, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Signal, Transducer, Transmembrane, Transmembrane helix
P35499: 3D-structure, Cell membrane, Congenital myasthenic syndrome, Disease variant, Disulfide bond, Glycoprotein, Ion channel, Ion transport, Membrane, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Sodium,

Sodium channel, Sodium transport, Transmembrane, Transmembrane helix, Transport, Voltage-gated channel
P48736: 3D-structure, Angiogenesis, ATP-binding, Cell membrane, Chemotaxis, Cytoplasm, Disease variant, Endocytosis, Immunity, Inflammatory response, Kinase, Lipid metabolism, Membrane, Nucleotide-binding, Phosphoprotein, Proteomics identification, Reference proteome, Serine/threonine-protein kinase, Transferase
P62917: 3D-structure, Cytoplasm, Direct protein sequencing, Hydroxylation, Isopeptide bond, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding, Ubl conjugation
Q05940: 3D-structure, Alternative splicing, Cell projection, Cytoplasmic vesicle, Disease variant, Disulfide bond, Dystonia, Glycoprotein, Membrane, Neurotransmitter transport, Parkinsonism, Phosphoprotein, Proteomics identification, Reference proteome, Synapse, Transmembrane, Transmembrane helix, Transport
Q16204: Acetylation, Chromosomal rearrangement, Coiled coil, Cytoplasm, Cytoskeleton, Methylation, Phosphoprotein, Proteomics identification, Proto-oncogene, Reference proteome, Repeat, SH3-binding
Q16445: Cell membrane, Chloride, Chloride channel, Disulfide bond, Glycoprotein, Ion channel, Ion transport, Ligand-gated ion channel, Membrane, Phosphoprotein, Postsynaptic cell membrane, Proteomics identification, Receptor, Reference proteome, Signal, Synapse, Transmembrane, Transmembrane helix, Transport
Q8TCU5: 3D-structure, Calcium, Cell membrane, Coiled coil, Disulfide bond, Glycoprotein, Ion channel, Ion transport, Ligand-gated ion channel, Magnesium, Membrane, Postsynaptic cell membrane, Proteomics identification, Receptor, Reference proteome, Signal, Synapse, Transmembrane, Transmembrane helix, Transport
Q99814: 3D-structure, Activator, Angiogenesis, Congenital erythrocytosis, Developmental protein, Differentiation, Disease variant, DNA-binding, Host-virus interaction, Hydroxylation, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Transcription, Transcription regulation, Ubl conjugation
P07949: 3D-structure, Alternative splicing, ATP-binding, Cell adhesion, Cell membrane, Chromosomal rearrangement, Disease variant, Disulfide bond, Endosome, Glycoprotein, Hirschsprung disease, Kinase, Membrane, Nucleotide-binding, Phosphoprotein, Proteomics identification, Proto-oncogene, Receptor, Reference proteome, Signal, Transferase, Transmembrane, Transmembrane helix, Tyrosine-protein kinase
P28065: 3D-structure, Acetylation, Alternative splicing, Cytoplasm, Disease variant, Host-virus interaction, Hydrolase, Immunity, Nucleus, Protease, Proteasome, Proteomics identification, Reference proteome, Threonine protease, Zymogen
P31431: 3D-structure, Alternative splicing, Glycoprotein, Heparan sulfate, Membrane, Proteoglycan, Proteomics identification, Reference proteome, Secreted, Signal, Transmembrane, Transmembrane helix
P42336: 3D-structure, Angiogenesis, ATP-binding, Disease variant, Kinase, Lipid metabolism, Nucleotide-binding, Phagocytosis, Proteomics identification, Proto-oncogene, Reference proteome, Serine/threonine-protein kinase, Transferase

P43116: 3D-structure, Cell membrane, Disulfide bond, G-protein coupled receptor, Glycoprotein, Membrane, Proteomics identification, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
P53396: 3D-structure, Acetylation, Alternative splicing, ATP-binding, Cytoplasm, Isopeptide bond, Lipid biosynthesis, Lipid metabolism, Magnesium, Metal-binding, Nucleotide-binding, Phosphoprotein, Proteomics identification, Reference proteome, Transferase, Ubl conjugation
P62906: 3D-structure, Acetylation, Cytoplasm, Isopeptide bond, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
Q02543: 3D-structure, Cytoplasm, Isopeptide bond, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
Q12908: Disease variant, Glycoprotein, Ion transport, Lipid transport, Membrane, Phosphoprotein, Proteomics identification, Reference proteome, Sodium, Sodium transport, Symport, Transmembrane, Transmembrane helix, Transport
Q13224: 3D-structure, Calcium, Cell membrane, Cell projection, Chromosomal rearrangement, Cytoplasm, Cytoskeleton, Disease variant, Disulfide bond, Endosome, Epilepsy, Glycoprotein, Intellectual disability, Ion channel, Ion transport, Ligand-gated ion channel, Lysosome, Magnesium, Membrane, Metal-binding, Phosphoprotein, Postsynaptic cell membrane, Proteomics identification, Receptor, Reference proteome, Signal, Synapse, Transmembrane, Transmembrane helix, Transport, Zinc
Q15139: Angiogenesis, Apoptosis, ATP-binding, Cell membrane, Cytoplasm, Differentiation, Disease variant, Ectodermal dysplasia, Golgi apparatus, Immunity, Inflammatory response, Innate immunity, Kinase, Magnesium, Membrane, Metal-binding, Neurogenesis, Nucleotide-binding, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Serine/threonine-protein kinase, Transferase, Zinc, Zinc-finger
Q15910: 3D-structure, Alternative splicing, Biological rhythms, Chromatin regulator, Disease variant, Glycoprotein, Isopeptide bond, Methyltransferase, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Repressor, S-adenosyl-L-methionine, Transcription, Transcription regulation, Transferase, Ubl conjugation
Q16602: 3D-structure, Cell membrane, Direct protein sequencing, Disease variant, Disulfide bond, G-protein coupled receptor, Glycoprotein, Membrane, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Signal, Transducer, Transmembrane, Transmembrane helix
O75874: 3D-structure, Acetylation, Cytoplasm, Direct protein sequencing, Glyoxylate bypass, Magnesium, Manganese, Metal-binding, NADP, Oxidoreductase, Peroxisome, Phosphoprotein, Proteomics identification, Reference proteome, Tricarboxylic acid cycle
P08588: 3D-structure, Cell membrane, Disulfide bond, Endosome, G-protein coupled receptor, Glycoprotein, Lipoprotein, Membrane, Palmitate, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
P28223: 3D-structure, Alternative splicing, Behavior, Cell membrane, Cell projection, Cytoplasmic vesicle, Disulfide bond, G-protein coupled receptor,

Glycoprotein, Host cell receptor for virus entry, Host-virus interaction, Membrane, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Synapse, Transducer, Transmembrane, Transmembrane helix
P28472: 3D-structure, Alternative splicing, Cell membrane, Chloride, Chloride channel, Cytoplasmic vesicle, Direct protein sequencing, Disease variant, Disulfide bond, Epilepsy, Glycoprotein, Ion channel, Ion transport, Ligand-gated ion channel, Membrane, Postsynaptic cell membrane, Proteomics identification, Receptor, Reference proteome, Signal, Synapse, Transmembrane, Transmembrane helix, Transport
P30613: 3D-structure, Allosteric enzyme, Alternative splicing, ATP-binding, Disease variant, Glycolysis, Hereditary hemolytic anemia, Kinase, Magnesium, Manganese, Metal-binding, Nucleotide-binding, Phosphoprotein, Potassium, Proteomics identification, Pyruvate, Reference proteome, Transferase
P31644: 3D-structure, Cell membrane, Chloride, Chloride channel, Disease variant, Disulfide bond, Epilepsy, Glycoprotein, Ion channel, Ion transport, Isopeptide bond, Ligand-gated ion channel, Membrane, Postsynaptic cell membrane, Proteomics identification, Receptor, Reference proteome, Signal, Synapse, Transmembrane, Transmembrane helix, Transport, Ubl conjugation
P40306: 3D-structure, Acetylation, Cytoplasm, Disease variant, Host-virus interaction, Hydrolase, Nucleus, Phosphoprotein, Protease, Proteasome, Proteomics identification, Reference proteome, Threonine protease, Zymogen
P62191: 3D-structure, Acetylation, Alternative splicing, ATP-binding, Cytoplasm, Deafness, Direct protein sequencing, Intellectual disability, Isopeptide bond, Lipoprotein, Membrane, Myristate, Nucleotide-binding, Nucleus, Phosphoprotein, Proteasome, Proteomics identification, Reference proteome, Ubl conjugation
P62888: 3D-structure, Acetylation, Cytoplasm, Isopeptide bond, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
P63173: 3D-structure, Acetylation, Cytoplasm, Isopeptide bond, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
Q9H6Z9: Apoptosis, Cytoplasm, Dioxygenase, DNA damage, Iron, Metal-binding, Nucleus, Oxidoreductase, Proteomics identification, Reference proteome, Ubl conjugation, Vitamin C
Q9UM73: 3D-structure, ATP-binding, Cell membrane, Chromosomal rearrangement, Disease variant, Disulfide bond, Glycoprotein, Kinase, Membrane, Nucleotide-binding, Phosphoprotein, Proteomics identification, Proto-oncogene, Receptor, Reference proteome, Repeat, Signal, Transferase, Transmembrane, Transmembrane helix, Tyrosine-protein kinase
P00519: 3D-structure, Acetylation, Alternative splicing, Apoptosis, ATP-binding, Autophagy, Cell adhesion, Chromosomal rearrangement, Cytoplasm, Cytoskeleton, Disease variant, DNA damage, DNA repair, DNA-binding, Endocytosis, Kinase, Lipoprotein, Magnesium, Manganese, Membrane, Metal-binding, Mitochondrion, Myristate, Nucleotide-binding, Nucleus, Phosphoprotein, Proteomics identification, Proto-oncogene, Reference proteome, SH2 domain, SH3 domain, Transferase, Tyrosine-protein kinase, Ubl conjugation
Q01668: 3D-structure, Alternative splicing, Calcium, Calcium channel, Calcium transport, Deafness, Disease variant, Disulfide bond, Epilepsy, Glycoprotein,

Ion channel, Ion transport, Membrane, Metal-binding, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Transmembrane, Transmembrane helix, Transport, Triplet repeat expansion, Voltage-gated channel
P12821: 3D-structure, Alternative promoter usage, Alternative splicing, Calmodulin-binding, Carboxypeptidase, Cell membrane, Cytoplasm, Direct protein sequencing, Disulfide bond, Glycoprotein, Hydrolase, Membrane, Metal-binding, Metalloprotease, Phosphoprotein, Protease, Proteomics identification, Reference proteome, Repeat, Secreted, Signal, Transmembrane, Transmembrane helix, Zinc
Q15858: 3D-structure, Alternative splicing, Cell membrane, Cell projection, Disease variant, Disulfide bond, Epilepsy, Glycoprotein, Ion channel, Ion transport, Membrane, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Sodium, Sodium channel, Sodium transport, Transmembrane, Transmembrane helix, Transport, Ubl conjugation, Voltage-gated channel
P05771: 3D-structure, Acetylation, Adaptive immunity, Alternative splicing, Apoptosis, ATP-binding, Calcium, Chromatin regulator, Cytoplasm, Direct protein sequencing, Immunity, Kinase, Membrane, Metal-binding, Nucleotide-binding, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Serine/threonine-protein kinase, Transcription, Transcription regulation, Transferase, Zinc, Zinc-finger
P08581: 3D-structure, Alternative splicing, ATP-binding, Chromosomal rearrangement, Deafness, Disease variant, Disulfide bond, Glycoprotein, Kinase, Membrane, Non-syndromic deafness, Nucleotide-binding, Phosphoprotein, Proteomics identification, Proto-oncogene, Receptor, Reference proteome, Repeat, Secreted, Signal, Transferase, Transmembrane, Transmembrane helix, Tyrosine-protein kinase, Ubl conjugation
P22607: 3D-structure, Alternative splicing, Apoptosis, ATP-binding, Cell membrane, Chromosomal rearrangement, Craniosynostosis, Cytoplasmic vesicle, Deafness, Disease variant, Disulfide bond, Dwarfism, Ectodermal dysplasia, Endoplasmic reticulum, Glycoprotein, Immunoglobulin domain, Kinase, Lacrimo-auriculo-dento-digital syndrome, Membrane, Nucleotide-binding, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Repeat, Secreted, Signal, Transferase, Transmembrane, Transmembrane helix, Tyrosine-protein kinase, Ubl conjugation
P40238: 3D-structure, Alternative splicing, Cell membrane, Disease variant, Disulfide bond, Glycoprotein, Golgi apparatus, Isopeptide bond, Membrane, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Repeat, Signal, Transmembrane, Transmembrane helix, Ubl conjugation
P62195: 3D-structure, Acetylation, Alternative splicing, ATP-binding, Cytoplasm, Nucleotide-binding, Nucleus, Phosphoprotein, Proteasome, Proteomics identification, Reference proteome
P11362: 3D-structure, Alternative splicing, ATP-binding, Cell membrane, Chromosomal rearrangement, Craniosynostosis, Cytoplasm, Cytoplasmic vesicle, Direct protein sequencing, Disease variant, Disulfide bond, Dwarfism, Glycoprotein, Heparin-binding, Holoprosencephaly, Hypogonadotropic hypogonadism, Immunoglobulin domain, Intellectual disability, Kallmann syndrome, Kinase, Membrane, Nucleotide-binding, Nucleus, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Repeat, Signal, Transcription, Transcription regulation, Transferase, Transmembrane, Transmembrane helix,

Tyrosine-protein kinase, Ubl conjugation
P04233: 3D-structure, Adaptive immunity, Alternative initiation, Alternative splicing, Cell membrane, Chaperone, Direct protein sequencing, Disulfide bond, Endoplasmic reticulum, Endosome, Glycoprotein, Golgi apparatus, Immunity, Lysosome, Membrane, Phosphoprotein, Proteoglycan, Proteomics identification, Reference proteome, Secreted, Signal-anchor, Transmembrane, Transmembrane helix
P04150: 3D-structure, Acetylation, Alternative initiation, Alternative splicing, Apoptosis, Cell cycle, Cell division, Chromatin regulator, Chromosome, Chromosome partition, Cytoplasm, Cytoskeleton, Disease variant, DNA-binding, Isopeptide bond, Lipid-binding, Metal-binding, Methylation, Mitochondrion, Mitosis, Nucleus, Phosphoprotein, Proteomics identification, Pseudohermaphroditism, Receptor, Reference proteome, RNA-binding, Steroid-binding, Transcription, Transcription regulation, Ubl conjugation, Zinc, Zinc-finger
P02359: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding, tRNA-binding
P0A7N4: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein
P0A7S3: 3D-structure, Acetylation, Antibiotic resistance, Direct protein sequencing, Methylation, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding, tRNA-binding
P0A7V3: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding
P0A7Z4: 3D-structure, Acetylation, ADP-ribosylation, Direct protein sequencing, DNA-directed RNA polymerase, Nucleotidyltransferase, Reference proteome, Transcription, Transferase
P0AA10: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein
P60723: 3D-structure, Antibiotic resistance, Direct protein sequencing, Reference proteome, Repressor, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding, Transcription, Transcription regulation, Transcription termination, Translation regulation
P0A8T7: 3D-structure, Acetylation, Antibiotic resistance, Direct protein sequencing, DNA-directed RNA polymerase, Magnesium, Metal-binding, Nucleotidyltransferase, Reference proteome, Transcription, Transferase, Zinc
P0A7V8: 3D-structure, Antibiotic resistance, Direct protein sequencing, Reference proteome, Repressor, Ribonucleoprotein, Ribosomal protein, Ribosome biogenesis, RNA-binding, rRNA-binding, Transcription, Transcription antitermination, Transcription regulation, Transcription termination, Translation regulation
P0A7L8: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding, tRNA-binding
P0A7M2: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding
P0AFI2: 3D-structure, Cell membrane, Direct protein sequencing, DNA-binding, Isomerase, Membrane, Reference proteome, Topoisomerase
P68919: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding

P62593: 3D-structure, Antibiotic resistance, Direct protein sequencing, Disulfide bond, Hydrolase, Plasmid, Signal, Transposable element
Q05318: ATP-binding, Host cytoplasm, Hydrolase, Methyltransferase, mRNA capping, mRNA processing, Multifunctional enzyme, Nucleotide-binding, Nucleotidyltransferase, Reference proteome, RNA-directed RNA polymerase, S-adenosyl-L-methionine, Transferase, Viral RNA replication, Virion
P16788: ATP-binding, Host-virus interaction, Kinase, Modulation of host cell cycle by virus, Nucleotide-binding, Reference proteome, Transferase, Virion
Q8TAA3: Alternative splicing, Differentiation, Nucleus, Proteasome, Proteomics identification, Reference proteome, Spermatogenesis
P20831: 3D-structure, Antibiotic resistance, ATP-binding, Cytoplasm, Direct protein sequencing, DNA-binding, Isomerase, Nucleotide-binding, Topoisomerase
P48372: ATP-binding, Cytoplasm, DNA-binding, Isomerase, Nucleotide-binding, Reference proteome, Topoisomerase
A0A0H2UU62: ATP-binding, DNA-binding, Isomerase, Magnesium, Metal-binding, Nucleotide-binding, Topoisomerase
Q9EXV5: 3D-structure, Antibiotic resistance, Hydrolase, Plasmid, Signal
A0A2P2HJL8: Heme, Iron, Membrane, Metal-binding, Methyltransferase, Monooxygenase, Oxidoreductase, Transferase, Transmembrane, Transmembrane helix
Q7ZJM1: DNA integration, DNA recombination, DNA-binding, Endonuclease, Hydrolase, Metal-binding, Nuclease, Nucleotidyltransferase, RNA-directed DNA polymerase, Transferase, Viral genome integration, Virus entry into host cell, Zinc, Zinc-finger
C7ETQ3: Antibiotic resistance, Hydrolase, Metal-binding, Periplasm, Signal, Zinc
A0A6E1W127: No keywords
A0AVB2: No keywords
A0AVG9: No keywords
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Q3T1C1: No keywords
Q45H73: No keywords
Q45KT0: No keywords
Q47313: No keywords
Q498Y0: No keywords
Q499G4: No keywords
Q4VBK6: No keywords
Q4VMI9: No keywords
Q4VWM6: No keywords
Q4ZFX9: No keywords
Q502Z6: No keywords
Q52LG8: No keywords
Q53F97: No keywords
Q53FH7: No keywords
Q53H63: No keywords
Q53RF2: No keywords
Q53S02: No keywords
Q53SJ7: No keywords
Q53TN1: No keywords
Q53XU2: No keywords
Q53XV0: No keywords
Q549N7: No keywords
Q567Q5: No keywords
Q59EW4: No keywords
Q59FI3: No keywords
Q59FL9: No keywords
Q5D056: No keywords
Q5EU99: No keywords
Q5JVW7: No keywords
Q5STL4: No keywords
Q5SUL3: No keywords
Q5SZ86: No keywords

Q5T258: No keywords
Q5T5Y4: No keywords
Q5T8C0: No keywords
Q5TEK5: No keywords
Q5U0J8: No keywords
Q5VSF4: No keywords
Q5VSF6: No keywords
Q5VTM0: No keywords
Q5VTR3: No keywords
Q642I1: No keywords
Q6B4R9: No keywords
Q6B4S1: No keywords
Q6FG61: No keywords
Q6FGN8: No keywords
Q6GSG7: No keywords
Q6IB08: No keywords
Q6IB60: No keywords
Q6IBB4: No keywords
Q6IBS3: No keywords
Q6IBU3: No keywords
Q6IPX6: No keywords
Q6LAE7: No keywords
Q6LDY4: No keywords
Q6NT44: No keywords
Q6NXQ8: No keywords
Q6NZ54: No keywords
Q6NZI3: No keywords
Q6P1L7: No keywords
Q6P1R2: No keywords
Q6P4H5: No keywords
Q6PJM7: No keywords
Q6PKG9: No keywords
Q6RUJ8: No keywords
Q6RUJ9: No keywords
Q6UQ80: No keywords
Q6UV22: No keywords
Q6UXW3: No keywords
Q70HX2: No keywords
Q71UT1: No keywords
Q75MG3: No keywords
Q76P87: No keywords
Q7L3E5: No keywords
Q7M4L4: No keywords
Q7M6M7: No keywords
Q7Z5I1: No keywords
Q7Z6S2: No keywords
Q84043: No keywords
Q86UN8: No keywords

Q86VC8: No keywords
Q86VW7: No keywords
Q86XJ6: No keywords
Q86Z31: No keywords
Q8IV23: No keywords
Q8IVD3: No keywords
Q8JUU4: No keywords
Q8K7H2: No keywords
Q8N5L2: No keywords
Q8N5L4: No keywords
Q8N685: No keywords
Q8NDX3: No keywords
Q8NE03: No keywords
Q8NEQ9: No keywords
Q8NI95: No keywords
Q8TAF9: No keywords
Q8TAH3: No keywords
Q8TBD5: No keywords
Q8TCJ9: No keywords
Q8TDS3: No keywords
Q8TEU4: No keywords
Q8WTU1: No keywords
Q8WTW5: No keywords
Q8WTX1: No keywords
Q8WV55: No keywords
Q8WXJ5: No keywords
Q8WXJ7: No keywords
Q8WYK3: No keywords
Q910W3: No keywords
Q91B46: No keywords
Q91B49: No keywords
Q92689: No keywords
Q93060: No keywords
Q969S4: No keywords
Q96BN0: No keywords
Q96CG2: No keywords
Q96DY4: No keywords
Q96EA5: No keywords
Q96EI2: No keywords
Q96P77: No keywords
Q96QV3: No keywords
Q99025: No keywords
Q99241: No keywords
Q99699: No keywords
Q99762: No keywords
Q9BQA4: No keywords
Q9BUZ2: No keywords
Q9BV24: No keywords

Q9BVN7: No keywords
Q9BWQ9: No keywords
Q9BWZ9: No keywords
Q9BYF2: No keywords
Q9BYG9: No keywords
Q9BYY4: No keywords
Q9BZB3: No keywords
Q9BZC8: No keywords
Q9BZC9: No keywords
Q9BZD0: No keywords
Q9BZT0: No keywords
Q9C008: No keywords
Q9DQD1: No keywords
Q9H1I3: No keywords
Q9H2C9: No keywords
Q9H4A2: No keywords
Q9H4K5: No keywords
Q9H508: No keywords
Q9HCX2: No keywords
Q9HCX7: No keywords
Q9NPY0: No keywords
Q9NW41: No keywords
Q9NWE2: No keywords
Q9NYK9: No keywords
Q9NYX2: No keywords
Q9NZK8: No keywords
Q9UBM3: No keywords
Q9UCP9: No keywords
Q9UCZ4: No keywords
Q9UD72: No keywords
Q9UDA2: No keywords
Q9UDF0: No keywords
Q9UE50: No keywords
Q9UEV0: No keywords
Q9UFP5: No keywords
Q9UHD3: No keywords
Q9UIH4: No keywords
Q9UIH6: No keywords
Q9UIH8: No keywords
Q9UKG7: No keywords
Q9UM87: No keywords
Q9UMZ5: No keywords
Q9UNV3: No keywords
Q9UPF8: No keywords
Q9UPK7: No keywords
Q9UQH8: No keywords
Q9UQH9: No keywords
Q9UQN5: No keywords

O95977: 3D-structure, Cell membrane, G-protein coupled receptor, Glycoprotein, Lipoprotein, Membrane, Palmitate, Proteomics identification, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
P04626: 3D-structure, Activator, Alternative initiation, Alternative splicing, ATP-binding, Cell membrane, Cell projection, Chromosomal rearrangement, Cytoplasm, Disease variant, Disulfide bond, Endosome, Glycoprotein, Kinase, Membrane, Nucleotide-binding, Nucleus, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Signal, Transcription, Transcription regulation, Transferase, Transmembrane, Transmembrane helix, Tyrosine-protein kinase
P08172: 3D-structure, Cell membrane, Disulfide bond, G-protein coupled receptor, Glycoprotein, Membrane, Phosphoprotein, Postsynaptic cell membrane, Proteomics identification, Receptor, Reference proteome, Synapse, Transducer, Transmembrane, Transmembrane helix
P10916: 3D-structure, Calcium, Cardiomyopathy, Cytoplasm, Direct protein sequencing, Disease variant, Metal-binding, Methylation, Motor protein, Muscle protein, Myofibrillar myopathy, Myosin, Phosphoprotein, Proteomics identification, Reference proteome, Repeat
P14867: 3D-structure, Cell membrane, Chloride, Chloride channel, Cytoplasmic vesicle, Disease variant, Disulfide bond, Epilepsy, Glycoprotein, Ion channel, Ion transport, Ligand-gated ion channel, Membrane, Postsynaptic cell membrane, Proteomics identification, Receptor, Reference proteome, Signal, Synapse, Transmembrane, Transmembrane helix, Transport
P23458: 3D-structure, Acetylation, ATP-binding, Disease variant, Kinase, Magnesium, Membrane, Metal-binding, Nucleotide-binding, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, SH2 domain, Transferase, Tyrosine-protein kinase, Ubl conjugation
P30968: 3D-structure, Alternative splicing, Cell membrane, Disease variant, Disulfide bond, G-protein coupled receptor, Glycoprotein, Hypogonadotropic hypogonadism, Membrane, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
P32320: 3D-structure, Hydrolase, Metal-binding, Proteomics identification, Reference proteome, Zinc
P39019: 3D-structure, Acetylation, Cytoplasm, Diamond-Blackfan anemia, Direct protein sequencing, Disease variant, Host-virus interaction, Methylation, Nucleus, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein
P39023: 3D-structure, Acetylation, Cytoplasm, Direct protein sequencing, Isopeptide bond, Methylation, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
P47870: 3D-structure, Alternative splicing, Cell membrane, Chloride, Chloride channel, Cytoplasmic vesicle, Disease variant, Disulfide bond, Epilepsy, Glycoprotein, Ion channel, Ion transport, Ligand-gated ion channel, Membrane, Phosphoprotein, Postsynaptic cell membrane, Proteomics identification, Receptor, Reference proteome, Signal, Synapse, Transmembrane, Transmembrane helix, Transport
P62277: 3D-structure, Acetylation, Cytoplasm, Direct protein sequencing,

Isopeptide bond, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
Q01118: 3D-structure, Cell membrane, Disulfide bond, Glycoprotein, Membrane, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Transmembrane, Transmembrane helix
Q9HC35: 3D-structure, Acetylation, Alternative splicing, Cell cycle, Cell division, Chromosomal rearrangement, Coiled coil, Cytoplasm, Cytoskeleton, Direct protein sequencing, Microtubule, Mitosis, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, WD repeat
O60894: 3D-structure, Cell membrane, Disulfide bond, Membrane, Proteomics identification, Receptor, Reference proteome, Signal, Transmembrane, Transmembrane helix, Transport
P04629: 3D-structure, Alternative splicing, ATP-binding, Cell membrane, Chromosomal rearrangement, Developmental protein, Differentiation, Disease variant, Disulfide bond, Endosome, Glycoprotein, Immunoglobulin domain, Kinase, Leucine-rich repeat, Membrane, Neurogenesis, Nucleotide-binding, Phosphoprotein, Proteomics identification, Proto-oncogene, Receptor, Reference proteome, Repeat, Signal, Transferase, Transmembrane, Transmembrane helix, Tyrosine-protein kinase, Ubl conjugation
P08908: 3D-structure, Behavior, Cell membrane, Cell projection, Disulfide bond, G-protein coupled receptor, Glycoprotein, Membrane, Proteomics identification, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
P18089: 3D-structure, Cell membrane, Disulfide bond, Epilepsy, G-protein coupled receptor, Lipoprotein, Membrane, Palmitate, Proteomics identification, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
P46776: 3D-structure, Acetylation, Cytoplasm, Hydroxylation, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein
P49720: 3D-structure, Acetylation, Cytoplasm, Direct protein sequencing, Host-virus interaction, Nucleus, Proteasome, Proteomics identification, Reference proteome
P61254: 3D-structure, Cytoplasm, Diamond-Blackfan anemia, Isopeptide bond, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
P61513: 3D-structure, Cytoplasm, Metal-binding, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Zinc, Zinc-finger
P83731: 3D-structure, Acetylation, ADP-ribosylation, Cytoplasm, Direct protein sequencing, Isopeptide bond, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
Q02750: 3D-structure, Acetylation, Alternative splicing, ATP-binding, Cardiomyopathy, Cytoplasm, Cytoskeleton, Direct protein sequencing, Disease variant, Ectodermal dysplasia, Intellectual disability, Kinase, Membrane, Nucleotide-binding, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Serine/threonine-protein kinase, Transferase, Tyrosine-protein kinase
Q06187: 3D-structure, Acetylation, Adaptive immunity, Alternative promoter usage, Apoptosis, ATP-binding, Cell membrane, Cytoplasm, Direct protein sequencing, Disease variant, Dwarfism, Immunity, Innate immunity, Kinase, Lipid-

binding, Membrane, Metal-binding, Nucleotide-binding, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, SH2 domain, SH3 domain, Transcription, Transcription regulation, Transferase, Tyrosine-protein kinase, Zinc, Zinc-finger
Q08881: 3D-structure, Adaptive immunity, ATP-binding, Cytoplasm, Direct protein sequencing, Disease variant, Immunity, Kinase, Metal-binding, Nucleotide-binding, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, SH2 domain, SH3 domain, Transferase, Tyrosine-protein kinase, Ubl conjugation, Zinc, Zinc-finger
Q16186: 3D-structure, Acetylation, Cytoplasm, Isopeptide bond, Nucleus, Phosphoprotein, Proteasome, Proteomics identification, Reference proteome, Ubl conjugation
Q99436: 3D-structure, Alternative splicing, Cytoplasm, Direct protein sequencing, Host-virus interaction, Hydrolase, Nucleus, Protease, Proteasome, Proteomics identification, Reference proteome, Threonine protease, Zymogen
P01116: 3D-structure, Acetylation, Alternative splicing, Cardiomyopathy, Cell membrane, Cytoplasm, Deafness, Direct protein sequencing, Disease variant, Ectodermal dysplasia, Glycoprotein, GTP-binding, Hydrolase, Intellectual disability, Isopeptide bond, Lipoprotein, Membrane, Methylation, Nucleotide-binding, Palmitate, Prenylation, Proteomics identification, Proto-oncogene, Reference proteome, Ubl conjugation
P25786: 3D-structure, Acetylation, Alternative splicing, Cytoplasm, Direct protein sequencing, Glycoprotein, Immunity, Isopeptide bond, Nucleus, Phosphoprotein, Proteasome, Proteomics identification, Reference proteome, Ubl conjugation
P27487: 3D-structure, Aminopeptidase, Cell adhesion, Cell junction, Cell membrane, Cell projection, Direct protein sequencing, Disulfide bond, Glycoprotein, Host-virus interaction, Hydrolase, Membrane, Protease, Proteomics identification, Receptor, Reference proteome, Secreted, Serine protease, Signal-anchor, Transmembrane, Transmembrane helix
P35268: 3D-structure, Cytoplasm, Direct protein sequencing, Heparin-binding, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding
P35998: 3D-structure, Acetylation, Alternative splicing, ATP-binding, Cytoplasm, Direct protein sequencing, Nucleotide-binding, Phosphoprotein, Proteasome, Proteomics identification, Reference proteome, Ubl conjugation
P49721: 3D-structure, Acetylation, Cytoplasm, Direct protein sequencing, Host-virus interaction, Nucleus, Proteasome, Proteomics identification, Reference proteome
P62263: 3D-structure, Cytoplasm, Direct protein sequencing, Isopeptide bond, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
P62701: 3D-structure, Acetylation, Cytoplasm, Direct protein sequencing, Isopeptide bond, Nucleus, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding, Ubl conjugation
P62945: 3D-structure, Cytoplasm, Reference proteome, Ribonucleoprotein, Ribosomal protein
Q02878: 3D-structure, Acetylation, Cytoplasm, Direct protein sequencing,

Endoplasmic reticulum, Isopeptide bond, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
Q14957: 3D-structure, Calcium, Cell membrane, Disulfide bond, Glycoprotein, Ion channel, Ion transport, Ligand-gated ion channel, Magnesium, Membrane, Phosphoprotein, Postsynaptic cell membrane, Proteomics identification, Receptor, Reference proteome, Signal, Synapse, Transmembrane, Transmembrane helix, Transport
Q16288: 3D-structure, Alternative splicing, ATP-binding, Developmental protein, Differentiation, Direct protein sequencing, Disulfide bond, Glycoprotein, Immunoglobulin domain, Kinase, Leucine-rich repeat, Membrane, Neurogenesis, Nucleotide-binding, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Repeat, Signal, Transferase, Transmembrane, Transmembrane helix, Tyrosine-protein kinase
Q92847: 3D-structure, Alternative splicing, Cell membrane, Disease variant, Disulfide bond, Dwarfism, G-protein coupled receptor, Glycoprotein, Membrane, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
Q96RI1: 3D-structure, Acetylation, Activator, Alternative promoter usage, Alternative splicing, Disease variant, DNA-binding, Immunity, Inflammatory response, Innate immunity, Intrahepatic cholestasis, Isopeptide bond, Metal-binding, Methylation, Nucleus, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Repressor, Transcription, Transcription regulation, Ubl conjugation, Zinc, Zinc-finger
O60674: 3D-structure, Adaptive immunity, ATP-binding, Chromatin regulator, Chromosomal rearrangement, Cytoplasm, Disease variant, Immunity, Innate immunity, Kinase, Magnesium, Membrane, Metal-binding, Nucleotide-binding, Nucleus, Phosphoprotein, Proteomics identification, Proto-oncogene, Reference proteome, Repeat, SH2 domain, Transferase, Tyrosine-protein kinase, Ubl conjugation
O95136: 3D-structure, Cell membrane, Deafness, Disease variant, G-protein coupled receptor, Glycoprotein, Lipoprotein, Membrane, Non-syndromic deafness, Palmitate, Proteomics identification, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
P06748: 3D-structure, Acetylation, ADP-ribosylation, Alternative splicing, Chaperone, Chromosomal rearrangement, Cytoplasm, Cytoskeleton, Direct protein sequencing, Disulfide bond, Host-virus interaction, Isopeptide bond, Nucleus, Phosphoprotein, Proteomics identification, Proto-oncogene, Reference proteome, RNA-binding, Ubl conjugation
P07550: 3D-structure, Cell membrane, Disulfide bond, Endosome, G-protein coupled receptor, Glycoprotein, Golgi apparatus, Hydroxylation, Lipoprotein, Membrane, Palmitate, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix, Ubl conjugation
P11802: 3D-structure, Acetylation, Alternative splicing, ATP-binding, Cell cycle, Cell division, Cytoplasm, Disease variant, Kinase, Membrane, Nucleotide-binding, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Serine/threonine-protein kinase, Transferase
P13533: Actin-binding, ATP-binding, Atrial septal defect, Calmodulin-binding, Cardiomyopathy, Coiled coil, Cytoplasm, Disease variant, Methylation, Motor

protein, Muscle protein, Myosin, Nucleotide-binding, Phosphoprotein, Proteomics identification, Reference proteome, Thick filament
P17980: 3D-structure, Acetylation, ATP-binding, Cataract, Cytoplasm, Deafness, Direct protein sequencing, Host-virus interaction, Intellectual disability, Neuropathy, Nucleotide-binding, Nucleus, Phosphoprotein, Proteasome, Proteomics identification, Reference proteome, Ubl conjugation
P18505: Alternative splicing, Cell membrane, Chloride, Chloride channel, Disease variant, Disulfide bond, Epilepsy, Glycoprotein, Ion channel, Ion transport, Ligand-gated ion channel, Membrane, Postsynaptic cell membrane, Proteomics identification, Receptor, Reference proteome, Signal, Synapse, Transmembrane, Transmembrane helix, Transport
P26373: 3D-structure, Acetylation, Alternative splicing, Cytoplasm, Disease variant, Dwarfism, Isopeptide bond, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
P28074: 3D-structure, Alternative splicing, Cytoplasm, Direct protein sequencing, Host-virus interaction, Hydrolase, Nucleus, Protease, Proteasome, Proteomics identification, Reference proteome, Threonine protease, Zymogen
P29597: 3D-structure, ATP-binding, Kinase, Nucleotide-binding, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, SH2 domain, Transferase, Tyrosine-protein kinase
P35869: 3D-structure, Acetylation, Activator, ADP-ribosylation, Biological rhythms, Cell cycle, Cytoplasm, Disease variant, DNA-binding, Nucleus, Proteomics identification, Receptor, Reference proteome, Repeat, Repressor, Retinitis pigmentosa, Transcription, Transcription regulation
P62841: 3D-structure, Acetylation, Cytoplasm, Direct protein sequencing, Isopeptide bond, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
P62854: 3D-structure, Cytoplasm, Diamond-Blackfan anemia, Direct protein sequencing, Disease variant, Endoplasmic reticulum, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein
P62861: 3D-structure, Cytoplasm, Direct protein sequencing, Nucleus, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein
P78334: Alternative splicing, Cell membrane, Chloride, Chloride channel, Disulfide bond, Glycoprotein, Ion channel, Ion transport, Membrane, Postsynaptic cell membrane, Proteomics identification, Reference proteome, Signal, Synapse, Transmembrane, Transmembrane helix, Transport
Q04759: 3D-structure, Alternative splicing, ATP-binding, Cell membrane, Cytoplasm, Immunity, Inflammatory response, Kinase, Magnesium, Membrane, Metal-binding, Nucleotide-binding, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Serine/threonine-protein kinase, Transferase, Zinc, Zinc-finger
Q9UGN5: 3D-structure, Acetylation, ADP-ribosylation, Allosteric enzyme, Alternative splicing, Chromosome, DNA damage, DNA repair, DNA-binding, Glycosyltransferase, NAD, Nucleotidyltransferase, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Transferase
O60391: Calcium, Cell membrane, Disulfide bond, Glycoprotein, Ion channel, Ion transport, Ligand-gated ion channel, Magnesium, Membrane, Postsynaptic cell membrane, Proteomics identification, Receptor, Reference proteome, Signal,

Synapse, Transmembrane, Transmembrane helix, Transport
P08590: 3D-structure, Cardiomyopathy, Direct protein sequencing, Disease variant, Methylation, Motor protein, Muscle protein, Myosin, Phosphoprotein, Proteomics identification, Reference proteome, Repeat
P21964: 3D-structure, Alternative initiation, Catecholamine metabolism, Cell membrane, Cytoplasm, Direct protein sequencing, Lipid metabolism, Magnesium, Membrane, Metal-binding, Methyltransferase, Neurotransmitter degradation, Phosphoprotein, Proteomics identification, Reference proteome, S-adenosyl-L-methionine, Schizophrenia, Signal-anchor, Transferase, Transmembrane, Transmembrane helix
P25116: 3D-structure, Blood coagulation, Cell membrane, Disulfide bond, G-protein coupled receptor, Glycoprotein, Hemostasis, Membrane, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Signal, Transducer, Transmembrane, Transmembrane helix
P31751: 3D-structure, Acetylation, Alternative splicing, Apoptosis, ATP-binding, Carbohydrate metabolism, Cell membrane, Cytoplasm, Developmental protein, Diabetes mellitus, Disease variant, Disulfide bond, Endosome, Glucose metabolism, Glycogen biosynthesis, Glycogen metabolism, Glycoprotein, Kinase, Manganese, Membrane, Metal-binding, Nucleotide-binding, Nucleus, Phosphoprotein, Proteomics identification, Proto-oncogene, Reference proteome, Serine/threonine-protein kinase, Sugar transport, Transferase, Translation regulation, Transport, Ubl conjugation
P34903: Cell membrane, Chloride, Chloride channel, Disease variant, Disulfide bond, Epilepsy, Glycoprotein, Ion channel, Ion transport, Ligand-gated ion channel, Membrane, Phosphoprotein, Postsynaptic cell membrane, Proteomics identification, Receptor, Reference proteome, Signal, Synapse, Transmembrane, Transmembrane helix, Transport
P36507: 3D-structure, Acetylation, ATP-binding, Cardiomyopathy, Cytoplasm, Direct protein sequencing, Disease variant, Ectodermal dysplasia, Intellectual disability, Kinase, Magnesium, Membrane, Metal-binding, Nucleotide-binding, Phosphoprotein, Proteomics identification, Reference proteome, Serine/threonine-protein kinase, Transferase, Tyrosine-protein kinase
P46778: 3D-structure, Cytoplasm, Direct protein sequencing, Disease variant, Endoplasmic reticulum, Hypotrichosis, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein
P46779: 3D-structure, Acetylation, Alternative splicing, Cytoplasm, Direct protein sequencing, Isopeptide bond, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
P48169: 3D-structure, Cell membrane, Chloride, Chloride channel, Disulfide bond, Glycoprotein, Ion channel, Ion transport, Ligand-gated ion channel, Membrane, Postsynaptic cell membrane, Proteomics identification, Receptor, Reference proteome, Signal, Synapse, Transmembrane, Transmembrane helix, Transport
P62913: 3D-structure, Acetylation, Alternative splicing, Cytoplasm, Diamond-Blackfan anemia, Direct protein sequencing, Disease variant, Isopeptide bond, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding, Ubl conjugation
P69905: 3D-structure, Acetylation, Direct protein sequencing, Disease variant, Glycation, Glycoprotein, Heme, Hereditary hemolytic anemia, Iron, Metal-binding,

Oxygen transport, Phosphoprotein, Proteomics identification, Reference proteome, Transport
Q13464: 3D-structure, Acetylation, Apoptosis, ATP-binding, Cell membrane, Cell projection, Coiled coil, Cytoplasm, Cytoskeleton, Direct protein sequencing, Golgi apparatus, Kinase, Magnesium, Membrane, Metal-binding, Nucleotide-binding, Phosphoprotein, Proteomics identification, Reference proteome, Serine/threonine-protein kinase, Transferase, Zinc, Zinc-finger
Q99835: 3D-structure, Cell membrane, Cell projection, Developmental protein, Disease variant, Disulfide bond, G-protein coupled receptor, Glycoprotein, Membrane, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Signal, Transducer, Transmembrane, Transmembrane helix
Q14524: 3D-structure, Alternative splicing, Atrial fibrillation, Brugada syndrome, Calmodulin-binding, Cardiomyopathy, Cell junction, Cell membrane, Cytoplasm, Disease variant, Disulfide bond, Glycoprotein, Ion channel, Ion transport, Long QT syndrome, Membrane, Methylation, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Sodium, Sodium channel, Sodium transport, Transmembrane, Transmembrane helix, Transport, Ubl conjugation, Voltage-gated channel
Q9NXG6: 3D-structure, Alternative splicing, Calcium, Dioxygenase, Disease variant, Endoplasmic reticulum, Epilepsy, Glycoprotein, Intellectual disability, Iron, Membrane, Metal-binding, Oxidoreductase, Proteomics identification, Reference proteome, Repeat, Signal-anchor, Transmembrane, Transmembrane helix, Vitamin C
Q05655: 3D-structure, Alternative splicing, Apoptosis, ATP-binding, Cell cycle, Cell membrane, Cytoplasm, Kinase, Membrane, Metal-binding, Mitochondrion, Nucleotide-binding, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Serine/threonine-protein kinase, Transferase, Tumor suppressor, Zinc, Zinc-finger
Q07343: 3D-structure, Alternative splicing, cAMP, Cell membrane, Cytoplasm, Hydrolase, Membrane, Metal-binding, Phosphoprotein, Proteomics identification, Reference proteome, Zinc
Q08493: 3D-structure, Alternative splicing, cAMP, Cell projection, Cilium, Hydrolase, Manganese, Metal-binding, Phosphoprotein, Proteomics identification, Reference proteome, Zinc
O60840: Alternative splicing, Calcium, Calcium channel, Calcium transport, Cone-rod dystrophy, Congenital stationary night blindness, Disease variant, Disulfide bond, Glycoprotein, Ion channel, Ion transport, Membrane, Metal-binding, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Sensory transduction, Transmembrane, Transmembrane helix, Transport, Vision, Voltage-gated channel
P00533: 3D-structure, Alternative splicing, ATP-binding, Cell membrane, Developmental protein, Direct protein sequencing, Disease variant, Disulfide bond, Endoplasmic reticulum, Endosome, Glycoprotein, Golgi apparatus, Host cell receptor for virus entry, Host-virus interaction, Hydroxylation, Isopeptide bond, Kinase, Lipoprotein, Membrane, Methylation, Nucleotide-binding, Nucleus, Palmitate, Phosphoprotein, Proteomics identification, Proto-oncogene, Receptor, Reference proteome, Repeat, Secreted, Signal, Transferase, Transmembrane, Transmembrane helix, Tyrosine-protein kinase, Ubl conjugation

P13569: 3D-structure, Alternative splicing, ATP-binding, Cell membrane, Chloride, Chloride channel, Disease variant, Endoplasmic reticulum, Endosome, Glycoprotein, Ion channel, Ion transport, Isomerase, Isopeptide bond, Lipoprotein, Membrane, Nucleotide-binding, Nucleus, Palmitate, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Transmembrane, Transmembrane helix, Transport, Ubl conjugation
Q9GZT9: 3D-structure, Acetylation, Alternative splicing, Congenital erythrocytosis, Cytoplasm, Dioxygenase, Disease variant, Iron, Metal-binding, Nucleus, Oxidoreductase, Phosphoprotein, Proteomics identification, Reference proteome, S-nitrosylation, Vitamin C, Zinc, Zinc-finger
Q9UI33: Alternative splicing, Cell membrane, Disease variant, Disulfide bond, Glycoprotein, Ion channel, Ion transport, Membrane, Neurodegeneration, Neuropathy, Phosphoprotein, Reference proteome, Repeat, Sodium, Sodium channel, Sodium transport, Transmembrane, Transmembrane helix, Transport, Voltage-gated channel
P30050: 3D-structure, Acetylation, Alternative splicing, Cytoplasm, Isopeptide bond, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, Ubl conjugation
P31749: 3D-structure, Acetylation, Alternative splicing, Apoptosis, ATP-binding, Carbohydrate metabolism, Cell membrane, Cytoplasm, Developmental protein, Disease variant, Disulfide bond, Glucose metabolism, Glycogen biosynthesis, Glycogen metabolism, Glycoprotein, Isopeptide bond, Kinase, Membrane, Mitochondrion, Neurogenesis, Nucleotide-binding, Nucleus, Phosphoprotein, Proteomics identification, Proto-oncogene, Reference proteome, Serine/threonine-protein kinase, Sugar transport, Transferase, Translation regulation, Transport, Ubl conjugation
P25789: 3D-structure, Acetylation, Alternative splicing, Cytoplasm, Direct protein sequencing, Host-virus interaction, Nucleus, Phosphoprotein, Proteasome, Proteomics identification, Reference proteome
P20701: 3D-structure, Alternative splicing, Calcium, Cell adhesion, Cell membrane, Direct protein sequencing, Disulfide bond, Glycoprotein, Host-virus interaction, Integrin, Magnesium, Membrane, Metal-binding, Phagocytosis, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Repeat, Signal, Transmembrane, Transmembrane helix
Q04609: 3D-structure, Alternative splicing, Calcium, Carboxypeptidase, Cell membrane, Cytoplasm, Dipeptidase, Direct protein sequencing, Glycoprotein, Hydrolase, Membrane, Metal-binding, Metalloprotease, Multifunctional enzyme, Phosphoprotein, Protease, Proteomics identification, Reference proteome, Signal-anchor, Transmembrane, Transmembrane helix, Zinc
P35372: 3D-structure, Alternative splicing, Cell membrane, Cell projection, Cytoplasm, Disulfide bond, Endosome, G-protein coupled receptor, Glycoprotein, Lipoprotein, Membrane, Palmitate, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix, Ubl conjugation
P21802: 3D-structure, Alternative splicing, Apoptosis, ATP-binding, Cell membrane, Craniosynostosis, Cytoplasmic vesicle, Disease variant, Disulfide bond, Ectodermal dysplasia, Glycoprotein, Golgi apparatus, Heparin-binding, Immunoglobulin domain, Intellectual disability, Kinase, Lacrimo-auriculo-dento-

digital syndrome, Membrane, Nucleotide-binding, Phosphoprotein, Proteomics identification, Proto-oncogene, Receptor, Reference proteome, Repeat, Secreted, Signal, Transferase, Transmembrane, Transmembrane helix, Tyrosine-protein kinase, Ubl conjugation
P0A7T7: 3D-structure, Acetylation, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding
P0A884: 3D-structure, Cytoplasm, Direct protein sequencing, Formylation, Methyltransferase, Nucleotide biosynthesis, Reference proteome, Repressor, RNA-binding, Transferase, Translation regulation
P08506: 3D-structure, Carboxypeptidase, Cell inner membrane, Cell membrane, Cell shape, Cell wall biogenesis/degradation, Direct protein sequencing, Hydrolase, Membrane, Peptidoglycan synthesis, Protease, Reference proteome, Signal
P0A7U3: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding, tRNA-binding
P0A7X3: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, tRNA-binding
P0A8V2: 3D-structure, Acetylation, Antibiotic resistance, Direct protein sequencing, DNA-directed RNA polymerase, Nucleotidyltransferase, Reference proteome, Transcription, Transferase
P0A7V0: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein
P0ADY3: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding
P0A7J3: 3D-structure, Acetylation, Direct protein sequencing, Reference proteome, Repressor, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding, Translation regulation
P0A7J7: 3D-structure, Direct protein sequencing, Methylation, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding
P0A7M6: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding
P0A7W1: 3D-structure, Acetylation, Antibiotic resistance, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding
P0AEB2: 3D-structure, Carboxypeptidase, Cell inner membrane, Cell membrane, Cell shape, Cell wall biogenesis/degradation, Direct protein sequencing, Hydrolase, Membrane, Peptidoglycan synthesis, Protease, Reference proteome, Signal
P60438: 3D-structure, Direct protein sequencing, Methylation, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding
P02413: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding
P0A7N1: 3D-structure, Reference proteome, Ribonucleoprotein, Ribosomal protein
P0AG44: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein
P33815: Host endoplasmic reticulum, Host Golgi apparatus, Host membrane, Host-virus interaction, Hydrolase, Late protein, Lipoprotein, Membrane, Palmitate, Reference proteome, Viral budding, Viral budding via the host ESCRT complexes, Viral envelope protein, Viral release from host cell, Virion
Q9HUK1: Cell membrane, DNA-binding, Isomerase, Membrane, Reference proteome,

Topoisomerase
Q9QLI9: Cap snatching, Endonuclease, Eukaryotic host gene expression shutoff by virus, Eukaryotic host transcription shutoff by virus, Host cytoplasm, Host gene expression shutoff by virus, Host nucleus, Host-virus interaction, Hydrolase, Inhibition of host RNA polymerase II by virus, Manganese, Metal-binding, Nuclease, Phosphoprotein, Reference proteome, Ribosomal frameshifting
P24735: 3D-structure, Antibiotic resistance, Direct protein sequencing, Hydrolase, Periplasm, Reference proteome, Signal
B4URF0: Calcium, Disulfide bond, Glycoprotein, Glycosidase, Host cell membrane, Host membrane, Hydrolase, Membrane, Metal-binding, Signal-anchor, Transmembrane, Transmembrane helix, Virion
A3EZI9: ATP-binding, Capsid protein, Disulfide bond, Fusion of virus membrane with host endosomal membrane, Fusion of virus membrane with host membrane, Glycoprotein, Host endoplasmic reticulum, Host membrane, Host-virus interaction, Hydrolase, Inhibition of host innate immune response by virus, Membrane, Nucleotide-binding, Protease, Serine protease, Transmembrane, Transmembrane helix, Viral attachment to host cell, Viral immunoevasion, Viral penetration into host cytoplasm, Virion, Virus entry into host cell
Q8RLA6: 3D-structure, Hydrolase, Plasmid, Signal
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Q9UQK9: No keywords
Q9Y4K6: No keywords
O00329: 3D-structure, Adaptive immunity, Alternative splicing, ATP-binding, Chemotaxis, Cytoplasm, Differentiation, Direct protein sequencing, Disease variant, Immunity, Inflammatory response, Innate immunity, Kinase, Lipid metabolism, Nucleotide-binding, Phosphoprotein, Proteomics identification, Reference proteome, Transferase
P08922: 3D-structure, ATP-binding, Cell membrane, Chromosomal rearrangement, Glycoprotein, Kinase, Membrane, Nucleotide-binding, Phosphoprotein, Proteomics identification, Proto-oncogene, Receptor, Reference proteome, Repeat, Signal, Transferase, Transmembrane, Transmembrane helix, Tyrosine-protein kinase
P09874: 3D-structure, Acetylation, ADP-ribosylation, Allosteric enzyme, Apoptosis, Chromosome, Cytoplasm, Direct protein sequencing, DNA damage, DNA repair, DNA-binding, Glycosyltransferase, Immunity, Innate immunity, Isopeptide bond, Metal-binding, NAD, Nucleotidyltransferase, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Transcription, Transcription regulation, Transferase, Ubl conjugation, Zinc, Zinc-finger
P20618: 3D-structure, Acetylation, Cytoplasm, Deafness, Direct protein sequencing, Glycoprotein, Host-virus interaction, Intellectual disability, Nucleus, Phosphoprotein, Proteasome, Proteomics identification, Reference proteome
P31645: 3D-structure, Alternative splicing, Antiport, Cell junction, Cell membrane, Cell projection, Disulfide bond, Endosome, Glycoprotein, Membrane, Metal-binding, Neurotransmitter transport, Phosphoprotein, Proteomics identification, Reference proteome, Sodium, Synapse, Transmembrane, Transmembrane helix, Transport
P40429: 3D-structure, Acetylation, Citrullination, Cytoplasm, Direct protein sequencing, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Translation regulation
P46783: 3D-structure, Cytoplasm, Diamond-Blackfan anemia, Direct protein

sequencing, Isopeptide bond, Methylation, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
P47914: 3D-structure, Acetylation, Cytoplasm, Direct protein sequencing, Heparin-binding, Methylation, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Ribonucleoprotein, Ribosomal protein
P51813: 3D-structure, Apoptosis, ATP-binding, Cell adhesion, Cytoplasm, Direct protein sequencing, Kinase, Metal-binding, Nucleotide-binding, Phosphoprotein, Proteomics identification, Reference proteome, SH2 domain, Stress response, Transferase, Tyrosine-protein kinase, Zinc, Zinc-finger
P61247: 3D-structure, Acetylation, ADP-ribosylation, Cytoplasm, Differentiation, Direct protein sequencing, Isopeptide bond, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
Q13698: 3D-structure, Calcium, Calcium channel, Calcium transport, Calmodulin-binding, Cell membrane, Disease variant, Disulfide bond, Glycoprotein, Ion channel, Ion transport, Membrane, Metal-binding, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Transmembrane, Transmembrane helix, Transport, Voltage-gated channel
Q9Y5Y9: 3D-structure, Cell membrane, Disease variant, Disulfide bond, Glycoprotein, Ion channel, Ion transport, Membrane, Phosphoprotein, Reference proteome, Repeat, Sodium, Sodium channel, Sodium transport, Transmembrane, Transmembrane helix, Transport, Ubl conjugation, Voltage-gated channel
O14818: 3D-structure, Acetylation, Alternative splicing, Cytoplasm, Direct protein sequencing, Glycoprotein, Host-virus interaction, Nucleus, Phosphoprotein, Proteasome, Proteomics identification, Reference proteome
O43614: 3D-structure, Cell membrane, Disulfide bond, G-protein coupled receptor, Glycoprotein, Membrane, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
O75899: 3D-structure, Cell membrane, Coiled coil, Direct protein sequencing, Disease variant, Disulfide bond, Epilepsy, G-protein coupled receptor, Glycoprotein, Intellectual disability, Membrane, Phosphoprotein, Postsynaptic cell membrane, Proteomics identification, Receptor, Reference proteome, Signal, Synapse, Transducer, Transmembrane, Transmembrane helix
P08912: 3D-structure, Cell membrane, Disulfide bond, G-protein coupled receptor, Glycoprotein, Membrane, Phosphoprotein, Postsynaptic cell membrane, Receptor, Reference proteome, Synapse, Transducer, Transmembrane, Transmembrane helix
P13631: 3D-structure, Alternative splicing, Cytoplasm, DNA-binding, Isopeptide bond, Metal-binding, Methylation, Nucleus, Proteomics identification, Receptor, Reference proteome, Transcription, Transcription regulation, Ubl conjugation, Zinc, Zinc-finger
P25100: Cell membrane, G-protein coupled receptor, Glycoprotein, Lipoprotein, Membrane, Palmitate, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
P25787: 3D-structure, Acetylation, Cytoplasm, Direct protein sequencing, Nucleus, Phosphoprotein, Proteasome, Proteomics identification, Reference proteome
P35354: 3D-structure, Acetylation, Dioxygenase, Disulfide bond, Endoplasmic

reticulum, Fatty acid biosynthesis, Fatty acid metabolism, Glycoprotein, Heme, Iron, Lipid biosynthesis, Lipid metabolism, Membrane, Metal-binding, Microsome, Nucleus, Oxidoreductase, Peroxidase, Prostaglandin biosynthesis, Prostaglandin metabolism, Proteomics identification, Reference proteome, S-nitrosylation, Signal
P42677: 3D-structure, Cytoplasm, Diamond-Blackfan anemia, Direct protein sequencing, Metal-binding, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Zinc, Zinc-finger
P42766: 3D-structure, Acetylation, Cytoplasm, Diamond-Blackfan anemia, Direct protein sequencing, Disease variant, Isopeptide bond, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
P48764: 3D-structure, Alternative splicing, Antiport, Cell membrane, Disease variant, Endosome, Glycoprotein, Ion transport, Membrane, Phosphoprotein, Proteomics identification, Reference proteome, Signal, Sodium, Sodium transport, Transmembrane, Transmembrane helix, Transport
P62273: 3D-structure, Acetylation, Alternative splicing, Cytoplasm, Diamond-Blackfan anemia, Direct protein sequencing, Disease variant, Endoplasmic reticulum, Metal-binding, Methylation, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Zinc
P62753: 3D-structure, Acetylation, ADP-ribosylation, Cytoplasm, Direct protein sequencing, Hydroxylation, Isopeptide bond, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
P62829: 3D-structure, Cytoplasm, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein
P62857: 3D-structure, Acetylation, Cytoplasm, Diamond-Blackfan anemia, Direct protein sequencing, Endoplasmic reticulum, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein
Q01449: Acetylation, Calcium, Metal-binding, Motor protein, Muscle protein, Myosin, Phosphoprotein, Proteomics identification, Reference proteome, Repeat
O00232: 3D-structure, Acetylation, Alternative splicing, Direct protein sequencing, Intellectual disability, Isopeptide bond, Proteasome, Proteomics identification, Reference proteome, Ubl conjugation
O43613: 3D-structure, Cell membrane, Disulfide bond, G-protein coupled receptor, Glycoprotein, Membrane, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
P05108: 3D-structure, Alternative splicing, Cholesterol metabolism, Direct protein sequencing, Disease variant, Heme, Iron, Lipid biosynthesis, Lipid metabolism, Membrane, Metal-binding, Mitochondrion, Mitochondrion inner membrane, Monooxygenase, Oxidoreductase, Proteomics identification, Reference proteome, Steroid biosynthesis, Steroid metabolism, Steroidogenesis, Sterol metabolism, Transit peptide
P08708: 3D-structure, Cytoplasm, Diamond-Blackfan anemia, Direct protein sequencing, Isopeptide bond, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
P24385: 3D-structure, Cell cycle, Cell division, Chromosomal rearrangement, Cyclin, Cytoplasm, DNA damage, Isopeptide bond, Membrane, Nucleus,

Phosphoprotein, Proteomics identification, Proto-oncogene, Reference proteome, Repressor, Transcription, Transcription regulation, Ubl conjugation
P28070: 3D-structure, Acetylation, Cytoplasm, Direct protein sequencing, Disease variant, Host-virus interaction, Nucleus, Phosphoprotein, Proteasome, Proteomics identification, Reference proteome
P32969: 3D-structure, Acetylation, Cytoplasm, Direct protein sequencing, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein
P33176: 3D-structure, Acetylation, ATP-binding, Coiled coil, Cytoplasm, Cytoskeleton, Isopeptide bond, Lysosome, Membrane, Methylation, Microtubule, Motor protein, Nucleotide-binding, Phosphoprotein, Proteomics identification, Reference proteome, Ubl conjugation
P35916: 3D-structure, Alternative splicing, Angiogenesis, ATP-binding, Cell membrane, Cytoplasm, Direct protein sequencing, Disease variant, Disulfide bond, Glycoprotein, Immunoglobulin domain, Kinase, Membrane, Nucleotide-binding, Nucleus, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Repeat, Secreted, Signal, Transferase, Transmembrane, Transmembrane helix, Tyrosine-protein kinase
P43119: 3D-structure, Cell membrane, Disulfide bond, G-protein coupled receptor, Glycoprotein, Lipoprotein, Membrane, Methylation, Prenylation, Proteomics identification, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
P50914: 3D-structure, Acetylation, Cytoplasm, Direct protein sequencing, Isopeptide bond, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Ribonucleoprotein, Ribosomal protein, Triplet repeat expansion, Ubl conjugation
P62241: 3D-structure, Acetylation, Cytoplasm, Direct protein sequencing, Isopeptide bond, Lipoprotein, Membrane, Myristate, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
P62244: 3D-structure, Cytoplasm, Diamond-Blackfan anemia, Direct protein sequencing, Nucleus, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein
P68871: 3D-structure, Acetylation, Congenital dyserythropoietic anemia, Direct protein sequencing, Disease variant, Glycation, Glycoprotein, Heme, Hereditary hemolytic anemia, Hypotensive agent, Iron, Metal-binding, Oxygen transport, Phosphoprotein, Proteomics identification, Pyruvate, Reference proteome, S-nitrosylation, Transport, Vasoactive
Q07020: 3D-structure, Alternative splicing, Cytoplasm, Diamond-Blackfan anemia, Direct protein sequencing, Disease variant, Endoplasmic reticulum, Isopeptide bond, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
Q16739: Acetylation, Glycosyltransferase, Golgi apparatus, Lipid biosynthesis, Lipid metabolism, Membrane, Proteomics identification, Reference proteome, Sphingolipid metabolism, Transferase, Transmembrane, Transmembrane helix
A7E2Y1: Actin-binding, Alternative splicing, ATP-binding, Coiled coil, Membrane, Motor protein, Muscle protein, Myosin, Nucleotide-binding, Proteomics identification, Reference proteome, Thick filament

O43242: 3D-structure, Alternative splicing, Isopeptide bond, Phosphoprotein, Proteasome, Proteomics identification, Reference proteome, Ubl conjugation
P12883: 3D-structure, Actin-binding, ATP-binding, Calmodulin-binding, Cardiomyopathy, Coiled coil, Cytoplasm, Disease variant, Methylation, Motor protein, Muscle protein, Myosin, Nucleotide-binding, Phosphoprotein, Proteomics identification, Reference proteome, Thick filament
P13945: 3D-structure, Cell membrane, Diabetes mellitus, Disulfide bond, G-protein coupled receptor, Glycoprotein, Lipoprotein, Membrane, Obesity, Palmitate, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
P21453: 3D-structure, Acetylation, Angiogenesis, Cell membrane, Chemotaxis, Disulfide bond, Endosome, G-protein coupled receptor, Glycoprotein, Lipoprotein, Membrane, Palmitate, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
P21730: 3D-structure, Cell membrane, Chemotaxis, Cytoplasmic vesicle, Disulfide bond, G-protein coupled receptor, Glycoprotein, Membrane, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Sulfation, Transducer, Transmembrane, Transmembrane helix
P30530: 3D-structure, Alternative splicing, ATP-binding, Cell membrane, Differentiation, Disulfide bond, Glycoprotein, Host cell receptor for virus entry, Host-virus interaction, Immunity, Immunoglobulin domain, Innate immunity, Kinase, Membrane, Nucleotide-binding, Oncogene, Phosphoprotein, Proteomics identification, Proto-oncogene, Receptor, Reference proteome, Repeat, Signal, Transferase, Transmembrane, Transmembrane helix, Tyrosine-protein kinase, Ubl conjugation
P31639: 3D-structure, Alternative splicing, Cell membrane, Disease variant, Disulfide bond, Glycoprotein, Ion transport, Membrane, Metal-binding, Proteomics identification, Reference proteome, Sodium, Sodium transport, Sugar transport, Symport, Transmembrane, Transmembrane helix, Transport
P35968: 3D-structure, Alternative splicing, Angiogenesis, ATP-binding, Cell junction, Cell membrane, Cytoplasm, Cytoplasmic vesicle, Developmental protein, Differentiation, Disulfide bond, Endoplasmic reticulum, Endosome, Glycoprotein, Host-virus interaction, Immunoglobulin domain, Kinase, Membrane, Nucleotide-binding, Nucleus, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Repeat, Secreted, Signal, Transferase, Transmembrane, Transmembrane helix, Tyrosine-protein kinase, Ubl conjugation
P46777: 3D-structure, Acetylation, Cytoplasm, Diamond-Blackfan anemia, Direct protein sequencing, Disease variant, Isopeptide bond, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding, Ubl conjugation
P84098: 3D-structure, Citrullination, Cytoplasm, Direct protein sequencing, Isopeptide bond, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
Q99500: 3D-structure, Cell membrane, G-protein coupled receptor, Glycoprotein, Membrane, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
Q9NY46: 3D-structure, Alternative splicing, Cell membrane, Disease variant, Disulfide bond, Epilepsy, Glycoprotein, Ion channel, Ion transport, Membrane,

Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Sodium, Sodium channel, Sodium transport, Transmembrane, Transmembrane helix, Transport, Ubl conjugation, Voltage-gated channel
Q9Y3U8: 3D-structure, Acetylation, Cytoplasm, Direct protein sequencing, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein
O14980: 3D-structure, Acetylation, Cytoplasm, Direct protein sequencing, Host-virus interaction, mRNA transport, Nucleus, Phosphoprotein, Protein transport, Proteomics identification, Reference proteome, Repeat, RNA-binding, Transport
P03952: 3D-structure, Blood coagulation, Direct protein sequencing, Disease variant, Disulfide bond, Fibrinolysis, Glycoprotein, Hemostasis, Hydrolase, Inflammatory response, Protease, Proteomics identification, Reference proteome, Repeat, Secreted, Serine protease, Signal, Zymogen
P06280: 3D-structure, Direct protein sequencing, Disease variant, Disulfide bond, Glycoprotein, Glycosidase, Hydrolase, Lipid metabolism, Lysosome, Pharmaceutical, Proteomics identification, Reference proteome, RNA editing, Signal
P08913: 3D-structure, Cell membrane, Direct protein sequencing, Disulfide bond, G-protein coupled receptor, Glycoprotein, Lipoprotein, Membrane, Methylation, Palmitate, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
P18077: 3D-structure, Acetylation, Cytoplasm, Diamond-Blackfan anemia, Disease variant, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, tRNA-binding
P20309: 3D-structure, Cell membrane, Disulfide bond, Endoplasmic reticulum, G-protein coupled receptor, Glycoprotein, Membrane, Phosphoprotein, Postsynaptic cell membrane, Proteomics identification, Receptor, Reference proteome, Synapse, Transducer, Transmembrane, Transmembrane helix
P49674: 3D-structure, ATP-binding, Biological rhythms, Cytoplasm, Kinase, Methylation, Nucleotide-binding, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Serine/threonine-protein kinase, Transferase
P62979: 3D-structure, Acetylation, ADP-ribosylation, Cytoplasm, Direct protein sequencing, Isopeptide bond, Metal-binding, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation, Zinc, Zinc-finger
Q96DB2: Alternative splicing, Chromatin regulator, Hydrolase, Nucleus, Proteomics identification, Reference proteome, Repressor, Transcription, Transcription regulation
Q96S37: 3D-structure, Alternative splicing, Cell membrane, Disease variant, Glycoprotein, Ion transport, Membrane, Phosphoprotein, Proteomics identification, Reference proteome, Transmembrane, Transmembrane helix, Transport
Q9BY41: 3D-structure, Alternative splicing, Chromatin regulator, Chromosome, Cytoplasm, Disease variant, Hydrolase, Intellectual disability, Metal-binding, Nucleus, Obesity, Phosphoprotein, Proteomics identification, Reference proteome, Repressor, Transcription, Transcription regulation
Q9Y243: 3D-structure, Acetylation, Alternative splicing, ATP-binding, Cytoplasm, Disease variant, Disulfide bond, Glycoprotein, Kinase, Membrane, Nucleotide-

binding, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Serine/threonine-protein kinase, Transferase, Ubl conjugation
Q9Y6F1: 3D-structure, ADP-ribosylation, Alternative splicing, Chromosome, Cytoplasm, Cytoskeleton, DNA damage, DNA repair, Glycosyltransferase, NAD, Nucleotidyltransferase, Nucleus, Proteomics identification, Reference proteome, Transferase
Q8WUI4: 3D-structure, Alternative splicing, Chromatin regulator, Cytoplasm, Hydrolase, Metal-binding, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Repressor, Transcription, Transcription regulation, Zinc
O00231: 3D-structure, Acetylation, Alternative splicing, Cytoplasm, Direct protein sequencing, Isopeptide bond, Nucleus, Phosphoprotein, Proteasome, Proteomics identification, Reference proteome, Ubl conjugation
P17948: 3D-structure, Alternative splicing, Angiogenesis, ATP-binding, Cell membrane, Chemotaxis, Cytoplasm, Developmental protein, Differentiation, Direct protein sequencing, Disulfide bond, Endosome, Glycoprotein, Immunoglobulin domain, Kinase, Membrane, Nucleotide-binding, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Repeat, Secreted, Signal, Transferase, Transmembrane, Transmembrane helix, Tyrosine-protein kinase, Ubl conjugation
Q9Y5N1: 3D-structure, Alternative splicing, Cell membrane, Disulfide bond, G-protein coupled receptor, Glycoprotein, Membrane, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
P62899: 3D-structure, Acetylation, Alternative splicing, Cytoplasm, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein
Q92731: 3D-structure, Activator, Alternative splicing, Disease variant, DNA-binding, Lipid-binding, Metal-binding, Nucleus, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Steroid-binding, Transcription, Transcription regulation, Zinc, Zinc-finger
P03372: 3D-structure, Activator, Alternative promoter usage, Alternative splicing, Cell membrane, Cytoplasm, Direct protein sequencing, Disease variant, DNA-binding, Glycoprotein, Golgi apparatus, Lipid-binding, Lipoprotein, Membrane, Metal-binding, Methylation, Nucleus, Osteoporosis, Palmitate, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Steroid-binding, Transcription, Transcription regulation, Transmembrane, Ubl conjugation, Zinc, Zinc-finger
P04035: 3D-structure, Alternative splicing, Cholesterol biosynthesis, Cholesterol metabolism, Disease variant, Endoplasmic reticulum, Glycoprotein, Isopeptide bond, Limb-girdle muscular dystrophy, Lipid biosynthesis, Lipid metabolism, Membrane, NADP, Oxidoreductase, Peroxisome, Phosphoprotein, Proteomics identification, Reference proteome, Steroid biosynthesis, Steroid metabolism, Sterol biosynthesis, Sterol metabolism, Transmembrane, Transmembrane helix, Ubl conjugation
P35348: 3D-structure, Alternative splicing, Cell membrane, Cytoplasm, Disulfide bond, G-protein coupled receptor, Glycoprotein, Lipoprotein, Membrane, Nucleus, Palmitate, Phosphoprotein, Proteomics identification, Receptor, Reference

proteome, Transducer, Transmembrane, Transmembrane helix
Q05586: 3D-structure, Alternative splicing, Calcium, Cell membrane, Disease variant, Disulfide bond, Epilepsy, Glycoprotein, Intellectual disability, Ion channel, Ion transport, Ligand-gated ion channel, Magnesium, Membrane, Metal-binding, Phosphoprotein, Postsynaptic cell membrane, Proteomics identification, Receptor, Reference proteome, Signal, Synapse, Transmembrane, Transmembrane helix, Transport, Zinc
Q9UQD0: 3D-structure, Alternative splicing, Cell junction, Cell membrane, Cell projection, Cytoplasmic vesicle, Disease variant, Disulfide bond, Epilepsy, Glycoprotein, Intellectual disability, Ion channel, Ion transport, Membrane, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Sodium, Sodium channel, Sodium transport, Transmembrane, Transmembrane helix, Transport, Ubl conjugation, Voltage-gated channel
Q08499: 3D-structure, Alternative splicing, cAMP, Cell membrane, Cytoplasm, Cytoskeleton, Disease variant, Hydrolase, Isopeptide bond, Manganese, Membrane, Metal-binding, Phosphoprotein, Proteomics identification, Reference proteome, Ubl conjugation, Zinc
P27815: 3D-structure, Alternative splicing, cAMP, Cell membrane, Cell projection, Cytoplasm, Hydrolase, Isopeptide bond, Manganese, Membrane, Metal-binding, Phosphoprotein, Proteomics identification, Reference proteome, Ubl conjugation, Zinc
Q13936: 3D-structure, Alternative splicing, Autism, Autism spectrum disorder, Brugada syndrome, Calcium, Calcium channel, Calcium transport, Calmodulin-binding, Cell membrane, Cell projection, Disease variant, Disulfide bond, Epilepsy, Glycoprotein, Host-virus interaction, Intellectual disability, Ion channel, Ion transport, Long QT syndrome, Membrane, Metal-binding, Phosphoprotein, Postsynaptic cell membrane, Proteomics identification, Reference proteome, Repeat, Synapse, Transmembrane, Transmembrane helix, Transport, Voltage-gated channel
P0AD65: 3D-structure, Carboxypeptidase, Cell inner membrane, Cell membrane, Cell shape, Cell wall biogenesis/degradation, Direct protein sequencing, Hydrolase, Membrane, Peptidoglycan synthesis, Protease, Reference proteome, Transmembrane, Transmembrane helix
P60422: 3D-structure, Acetylation, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding
P0A7S9: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding, tRNA-binding
P60624: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding
P0AG59: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein
P05364: 3D-structure, Antibiotic resistance, Hydrolase, Periplasm, Signal
P06856: DNA recombination, DNA replication, DNA-binding, DNA-directed DNA polymerase, Early protein, Hydrolase, Multifunctional enzyme, Nucleotidyltransferase, Reference proteome, Transferase, Viral DNA replication
P03468: 3D-structure, Calcium, Disulfide bond, Glycoprotein, Glycosidase, Host cell membrane, Host membrane, Hydrolase, Membrane, Metal-binding, Reference proteome, Signal-anchor, Transmembrane, Transmembrane helix, Virion

P22090: 3D-structure, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding
P0A7Q1: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein
P0A0K8: 3D-structure, Antibiotic resistance, ATP-binding, Cytoplasm, Direct protein sequencing, DNA-binding, Isomerase, Magnesium, Metal-binding, Nucleotide-binding, Topoisomerase
Q9HUJ8: ATP-binding, DNA-binding, Isomerase, Magnesium, Metal-binding, Nucleotide-binding, Reference proteome, Topoisomerase
A0A7H0DN30: Host endoplasmic reticulum, Host Golgi apparatus, Host membrane, Host-virus interaction, Hydrolase, Late protein, Lipoprotein, Membrane, Palmitate, Reference proteome, Viral budding, Viral budding via the host ESCRT complexes, Viral envelope protein, Viral release from host cell, Virion
P16732: 3D-structure, DNA-binding, Host nucleus, Hydrolase, Reference proteome, Viral genome packaging, Viral release from host cell
Q9I7C2: 3D-structure, ATP-binding, Cytoplasm, DNA-binding, Isomerase, Magnesium, Metal-binding, Nucleotide-binding, Reference proteome, Topoisomerase
Q848S6: 3D-structure, Antibiotic resistance, Hydrolase, Plasmid, Signal
P16724: ATP-binding, Host nucleus, Late protein, Metal-binding, Nucleotide-binding, Reference proteome, Viral genome packaging, Viral release from host cell, Zinc, Zinc-finger
P16792: Host nucleus, Reference proteome, Viral genome packaging, Viral release from host cell
F2SHH3: Heme, Iron, Membrane, Metal-binding, Monooxygenase, Oxidoreductase, Reference proteome, Transmembrane, Transmembrane helix
B5U1R8: Antibiotic resistance, Hydrolase, Signal
G4WW85: Heme, Iron, Metal-binding, Methyltransferase, Monooxygenase, Oxidoreductase, Transferase
Q5L478: No keywords
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O00487: 3D-structure, Direct protein sequencing, DNA damage, DNA repair, Hydrolase, Metal-binding, Metalloprotease, Phosphoprotein, Protease, Proteasome, Proteomics identification, Reference proteome, Ubl conjugation pathway, Zinc
O15399: 3D-structure, Calcium, Cell membrane, Disease variant, Disulfide bond, Epilepsy, Glycoprotein, Ion channel, Ion transport, Ligand-gated ion channel, Magnesium, Membrane, Methylation, Phosphoprotein, Postsynaptic cell membrane, Proteomics identification, Receptor, Reference proteome, Signal, Synapse, Transmembrane, Transmembrane helix, Transport
P00374: 3D-structure, Alternative splicing, Cytoplasm, Disease variant, Methotrexate resistance, Mitochondrion, NADP, One-carbon metabolism,

Oxidoreductase, Proteomics identification, Reference proteome, RNA-binding
P13866: 3D-structure, Alternative splicing, Cell membrane, Disease variant, Disulfide bond, Glycoprotein, Ion transport, Membrane, Phosphoprotein, Proteomics identification, Reference proteome, Sodium, Sodium transport, Sugar transport, Symport, Transmembrane, Transmembrane helix, Transport
P18124: 3D-structure, Acetylation, Cytoplasm, Direct protein sequencing, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Ribonucleoprotein, Ribosomal protein, RNA-binding
P18621: 3D-structure, Alternative splicing, Cytoplasm, Direct protein sequencing, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein
P29371: 3D-structure, Cell membrane, Disease variant, Disulfide bond, G-protein coupled receptor, Glycoprotein, Hypogonadotropic hypogonadism, Lipoprotein, Membrane, Palmitate, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
P41145: 3D-structure, Alternative splicing, Behavior, Cell membrane, Disulfide bond, G-protein coupled receptor, Glycoprotein, Lipoprotein, Membrane, Palmitate, Proteomics identification, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
P48735: 3D-structure, Acetylation, Alternative splicing, Disease variant, Glyoxylate bypass, Magnesium, Manganese, Metal-binding, Mitochondrion, NADP, Oxidoreductase, Proteomics identification, Reference proteome, Transit peptide, Tricarboxylic acid cycle
P49356: 3D-structure, Alternative splicing, Lipid metabolism, Metal-binding, Phosphoprotein, Prenyltransferase, Proteomics identification, Reference proteome, Repeat, Transferase, Zinc
P55036: 3D-structure, Alternative splicing, Direct protein sequencing, Isopeptide bond, Phosphoprotein, Proteasome, Proteomics identification, Reference proteome, Repeat, Ubl conjugation
P61927: 3D-structure, Acetylation, Cytoplasm, Metal-binding, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding, Zinc, Zinc-finger
P62280: 3D-structure, Acetylation, Citrullination, Cytoplasm, Direct protein sequencing, Lipoprotein, Methylation, Nucleus, Palmitate, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding
Q99250: 3D-structure, Alternative splicing, Cell membrane, Disease variant, Disulfide bond, Epilepsy, Glycoprotein, Ion channel, Ion transport, Isopeptide bond, Membrane, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Sodium, Sodium channel, Sodium transport, Transmembrane, Transmembrane helix, Transport, Ubl conjugation, Voltage-gated channel
Q9H244: 3D-structure, Blood coagulation, Cell membrane, Disease variant, Disulfide bond, G-protein coupled receptor, Glycoprotein, Hemostasis, Membrane, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
Q9UN88: Cell membrane, Chloride, Chloride channel, Disulfide bond, Glycoprotein, Ion channel, Ion transport, Membrane, Postsynaptic cell membrane, Proteomics identification, Reference proteome, Signal, Synapse, Transmembrane,

Transmembrane helix, Transport
P05093: 3D-structure, Congenital adrenal hyperplasia, Disease variant, Endoplasmic reticulum, Heme, Iron, Lipid metabolism, Lyase, Membrane, Metal-binding, Microsome, Monooxygenase, Oxidoreductase, Phosphoprotein, Proteomics identification, Reference proteome, Steroidogenesis
P08173: 3D-structure, Cell membrane, Disulfide bond, G-protein coupled receptor, Glycoprotein, Membrane, Phosphoprotein, Postsynaptic cell membrane, Proteomics identification, Receptor, Reference proteome, Synapse, Transducer, Transmembrane, Transmembrane helix
P11274: 3D-structure, Acetylation, Alternative splicing, ATP-binding, Cell projection, Chromosomal rearrangement, Coiled coil, GTPase activation, Guanine-nucleotide releasing factor, Kinase, Methylation, Nucleotide-binding, Phosphoprotein, Proteomics identification, Proto-oncogene, Reference proteome, Serine/threonine-protein kinase, Synapse, Transferase
P36578: 3D-structure, Acetylation, Citrullination, Cytoplasm, Direct protein sequencing, Isopeptide bond, Methylation, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
P49286: 3D-structure, Cell membrane, Disulfide bond, G-protein coupled receptor, Glycoprotein, Membrane, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
P51665: 3D-structure, Acetylation, Isopeptide bond, Proteasome, Proteomics identification, Reference proteome, Ubl conjugation
P60866: 3D-structure, Acetylation, Alternative splicing, Cytoplasm, Direct protein sequencing, Isopeptide bond, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
P60896: 3D-structure, Alternative promoter usage, Nucleus, Proteasome, Proteomics identification, Reference proteome
P62249: 3D-structure, Acetylation, Cytoplasm, Direct protein sequencing, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein
P62847: 3D-structure, Acetylation, Alternative splicing, Cytoplasm, Diamond-Blackfan anemia, Direct protein sequencing, Isopeptide bond, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
P62910: 3D-structure, Cytoplasm, Direct protein sequencing, Isopeptide bond, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
Q7L0J3: 3D-structure, Alternative splicing, Cell projection, Cytoplasmic vesicle, Disease variant, Epilepsy, Glycoprotein, Membrane, Neurotransmitter transport, Phosphoprotein, Proteomics identification, Reference proteome, Synapse, Transmembrane, Transmembrane helix, Transport
Q8N1C3: Cell membrane, Chloride, Chloride channel, Disulfide bond, Glycoprotein, Ion channel, Ion transport, Lipoprotein, Membrane, Palmitate, Postsynaptic cell membrane, Proteomics identification, Reference proteome, Signal, Synapse, Transmembrane, Transmembrane helix, Transport
Q9UBN7: 3D-structure, Actin-binding, Alternative splicing, Autophagy, Cell projection, Chromatin regulator, Cytoplasm, Cytoskeleton, Hydrolase, Metal-

binding, Methylation, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Repressor, Transcription, Transcription regulation, Ubl conjugation, Zinc, Zinc-finger
P00742: 3D-structure, Blood coagulation, Calcium, Cleavage on pair of basic residues, Direct protein sequencing, Disease variant, Disulfide bond, EGF-like domain, Gamma-carboxyglutamic acid, Glycoprotein, Hemostasis, Hydrolase, Hydroxylation, Protease, Proteomics identification, Reference proteome, Repeat, Secreted, Serine protease, Signal, Zymogen
P08473: 3D-structure, Cell membrane, Charcot-Marie-Tooth disease, Disease variant, Disulfide bond, Glycoprotein, Hydrolase, Lipoprotein, Membrane, Metal-binding, Metalloprotease, Myristate, Neurodegeneration, Neuropathy, Phosphoprotein, Protease, Proteomics identification, Reference proteome, Signal-anchor, Spinocerebellar ataxia, Transmembrane, Transmembrane helix, Zinc
P14416: 3D-structure, Alternative splicing, Cell membrane, Disulfide bond, G-protein coupled receptor, Glycoprotein, Golgi apparatus, Lipoprotein, Membrane, Palmitate, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
P22102: 3D-structure, Acetylation, Alternative splicing, ATP-binding, Ligase, Magnesium, Manganese, Metal-binding, Multifunctional enzyme, Nucleotide-binding, Phosphoprotein, Proteomics identification, Purine biosynthesis, Reference proteome, Transferase
P23975: 3D-structure, Alternative splicing, Cell membrane, Disease variant, Disulfide bond, Glycoprotein, Membrane, Metal-binding, Neurotransmitter transport, Proteomics identification, Reference proteome, Sodium, Symport, Transmembrane, Transmembrane helix, Transport
P42681: 3D-structure, Adaptive immunity, ATP-binding, Cell membrane, Cytoplasm, Immunity, Kinase, Lipoprotein, Membrane, Nucleotide-binding, Nucleus, Palmitate, Phosphoprotein, Proteomics identification, Reference proteome, SH2 domain, SH3 domain, Transcription, Transcription regulation, Transferase, Tyrosine-protein kinase
P46781: 3D-structure, Acetylation, Cytoplasm, Direct protein sequencing, Isopeptide bond, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding, Ubl conjugation
P46782: 3D-structure, Acetylation, Cytoplasm, Direct protein sequencing, Isopeptide bond, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
P61313: 3D-structure, Alternative splicing, Cytoplasm, Diamond-Blackfan anemia, Isopeptide bond, Lipoprotein, Myristate, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
P62081: 3D-structure, Acetylation, Cytoplasm, Cytoskeleton, Diamond-Blackfan anemia, Direct protein sequencing, Isopeptide bond, Nucleus, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
P62424: 3D-structure, Acetylation, Chromosomal rearrangement, Cytoplasm, Isopeptide bond, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation

P63220: 3D-structure, Acetylation, Cytoplasm, Direct protein sequencing, Endoplasmic reticulum, Isopeptide bond, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
Q16236: 3D-structure, Acetylation, Activator, Alternative splicing, Cytoplasm, Disease variant, DNA-binding, Glycation, Glycoprotein, Host-virus interaction, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Transcription, Transcription regulation, Ubl conjugation
Q92769: 3D-structure, Acetylation, Alternative splicing, Biological rhythms, Chromatin regulator, Cytoplasm, Hydrolase, Isopeptide bond, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Repressor, S-nitrosylation, Transcription, Transcription regulation, Ubl conjugation
Q9H228: 3D-structure, Alternative splicing, Cell membrane, G-protein coupled receptor, Glycoprotein, Lipoprotein, Membrane, Palmitate, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
P05107: 3D-structure, Calcium, Cell adhesion, Cell membrane, Direct protein sequencing, Disease variant, Disulfide bond, EGF-like domain, Glycoprotein, Integrin, Magnesium, Membrane, Metal-binding, Phagocytosis, Phosphoprotein, Proteomics identification, Pyrrolidone carboxylic acid, Receptor, Reference proteome, Repeat, Signal, Transmembrane, Transmembrane helix
P12931: 3D-structure, Alternative splicing, ATP-binding, Cell adhesion, Cell cycle, Cell junction, Cell membrane, Cytoplasm, Cytoskeleton, Disease variant, Host-virus interaction, Immunity, Kinase, Lipoprotein, Membrane, Mitochondrion, Mitochondrion inner membrane, Myristate, Nucleotide-binding, Nucleus, Phosphoprotein, Proteomics identification, Proto-oncogene, Reference proteome, SH2 domain, SH3 domain, Transferase, Tyrosine-protein kinase, Ubl conjugation
P18825: 3D-structure, Cell membrane, Disulfide bond, G-protein coupled receptor, Glycoprotein, Membrane, Proteomics identification, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
P49354: 3D-structure, Acetylation, Alternative splicing, Magnesium, Phosphoprotein, Prenyltransferase, Proteomics identification, Reference proteome, Repeat, Transferase
P56524: 3D-structure, Alternative splicing, Chromatin regulator, Coiled coil, Cytoplasm, Disease variant, Epilepsy, Hydrolase, Intellectual disability, Isopeptide bond, Metal-binding, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Repressor, Transcription, Transcription regulation, Ubl conjugation, Zinc
P62269: 3D-structure, Acetylation, Cytoplasm, Direct protein sequencing, Isopeptide bond, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding, Ubl conjugation
P62851: 3D-structure, Acetylation, Cytoplasm, Direct protein sequencing, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein
Q02153: 3D-structure, Alternative splicing, cGMP biosynthesis, Cytoplasm, Direct protein sequencing, GTP-binding, Heme, Iron, Lyase, Metal-binding, Nucleotide-binding, Proteomics identification, Reference proteome
Q99928: Alternative splicing, Cell membrane, Chloride, Chloride channel, Disulfide bond, Glycoprotein, Ion channel, Ion transport, Lipoprotein, Membrane,

Palmitate, Postsynaptic cell membrane, Reference proteome, Signal, Synapse, Transmembrane, Transmembrane helix, Transport
Q9UQL6: 3D-structure, Acetylation, Alternative splicing, Chromatin regulator, Cytoplasm, Hydrolase, Isopeptide bond, Metal-binding, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Repressor, Transcription, Transcription regulation, Ubl conjugation, Zinc
A5LHX3: Cytoplasm, Hydrolase, Nucleus, Protease, Proteasome, Proteomics identification, Reference proteome, Threonine protease, Zymogen
O75116: 3D-structure, ATP-binding, Biological rhythms, Cell membrane, Coiled coil, Cytoplasm, Cytoskeleton, Kinase, Magnesium, Membrane, Metal-binding, Nucleotide-binding, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Serine/threonine-protein kinase, Transferase, Zinc, Zinc-finger
O75343: cGMP biosynthesis, Cytoplasm, GTP-binding, Heme, Iron, Lyase, Metal-binding, Nucleotide-binding, Reference proteome
P17752: 3D-structure, Alternative splicing, Iron, Metal-binding, Monooxygenase, Oxidoreductase, Phosphoprotein, Proteomics identification, Reference proteome, Serotonin biosynthesis, Ubl conjugation
P20648: ATP-binding, Cell membrane, Hydrogen ion transport, Ion transport, Magnesium, Membrane, Metal-binding, Nucleotide-binding, Phosphoprotein, Potassium, Potassium transport, Proteomics identification, Reference proteome, Translocase, Transmembrane, Transmembrane helix, Transport
P28066: 3D-structure, Acetylation, Alternative splicing, Cytoplasm, Direct protein sequencing, Glycoprotein, Nucleus, Phosphoprotein, Proteasome, Proteomics identification, Reference proteome
P30939: 3D-structure, Cell membrane, Disulfide bond, G-protein coupled receptor, Glycoprotein, Membrane, Proteomics identification, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
P35368: Cell membrane, Cytoplasm, Disulfide bond, G-protein coupled receptor, Glycoprotein, Lipoprotein, Membrane, Nucleus, Palmitate, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
P49207: 3D-structure, Acetylation, Cytoplasm, Direct protein sequencing, Endoplasmic reticulum, Isopeptide bond, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
P51164: Cell adhesion, Cell membrane, Disulfide bond, Glycoprotein, Hydrogen ion transport, Ion transport, Membrane, Potassium, Potassium transport, Proteomics identification, Reference proteome, Signal-anchor, Transmembrane, Transmembrane helix, Transport
Q00534: 3D-structure, Acetylation, ATP-binding, Cell cycle, Cell division, Cell projection, Cytoplasm, Cytoskeleton, Differentiation, Disease variant, Kinase, Nucleotide-binding, Nucleus, Phosphoprotein, Primary microcephaly, Proteomics identification, Reference proteome, Serine/threonine-protein kinase, Transferase
Q01959: 3D-structure, Cell membrane, Cell projection, Disease variant, Disulfide bond, Dystonia, Glycoprotein, Membrane, Metal-binding, Neurodegeneration, Neurotransmitter transport, Parkinsonism, Proteomics identification, Reference proteome, Sodium, Symport, Transmembrane, Transmembrane helix, Transport

P27338: 3D-structure, Acetylation, Alternative splicing, Direct protein sequencing, FAD, Flavoprotein, Membrane, Mitochondrion, Mitochondrion outer membrane, Oxidoreductase, Proteomics identification, Reference proteome, Transmembrane, Transmembrane helix
Q9UNM6: 3D-structure, Acetylation, Alternative splicing, Proteasome, Proteomics identification, Reference proteome
P06401: 3D-structure, Alternative promoter usage, Alternative splicing, Cytoplasm, Direct protein sequencing, DNA-binding, Isopeptide bond, Lipid-binding, Lipoprotein, Membrane, Metal-binding, Mitochondrion, Mitochondrion outer membrane, Nucleus, Palmitate, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Steroid-binding, Transcription, Transcription regulation, Ubl conjugation, Zinc, Zinc-finger
P36888: 3D-structure, Alternative splicing, ATP-binding, Disease variant, Disulfide bond, Endoplasmic reticulum, Glycoprotein, Host-virus interaction, Immunoglobulin domain, Kinase, Membrane, Nucleotide-binding, Phosphoprotein, Proteomics identification, Proto-oncogene, Receptor, Reference proteome, Signal, Transferase, Transmembrane, Transmembrane helix, Tyrosine-protein kinase, Ubl conjugation
Q8IWU9: 3D-structure, Alternative splicing, Disease variant, Iron, Metal-binding, Monooxygenase, Oxidoreductase, Phosphoprotein, Proteomics identification, Reference proteome, RNA editing, Serotonin biosynthesis
P19971: 3D-structure, Alternative splicing, Angiogenesis, Chemotaxis, Developmental protein, Differentiation, Direct protein sequencing, Disease variant, Glycosyltransferase, Growth factor, Neuropathy, Phosphoprotein, Primary mitochondrial disease, Progressive external ophthalmoplegia, Proteomics identification, Reference proteome, Repeat, Transferase
P35498: 3D-structure, Alternative splicing, Autism, Autism spectrum disorder, Cell membrane, Disease variant, Disulfide bond, Epilepsy, Glycoprotein, Ion channel, Ion transport, Membrane, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Sodium, Sodium channel, Sodium transport, Transmembrane, Transmembrane helix, Transport, Voltage-gated channel
P43088: 3D-structure, Alternative splicing, Cell membrane, Disulfide bond, G-protein coupled receptor, Glycoprotein, Membrane, Proteomics identification, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
Q9UBS5: 3D-structure, Alternative splicing, Cell membrane, Cell projection, Coiled coil, Direct protein sequencing, Disease variant, Disulfide bond, G-protein coupled receptor, Glycoprotein, Intellectual disability, Membrane, Phosphoprotein, Postsynaptic cell membrane, Proteomics identification, Receptor, Reference proteome, Repeat, Secreted, Signal, Sushi, Synapse, Transducer, Transmembrane, Transmembrane helix
P11229: 3D-structure, Alternative splicing, Cell membrane, Disulfide bond, G-protein coupled receptor, Glycoprotein, Membrane, Phosphoprotein, Postsynaptic cell membrane, Proteomics identification, Receptor, Reference proteome, Synapse, Transducer, Transmembrane, Transmembrane helix
P10275: 3D-structure, Activator, Alternative splicing, Cytoplasm, Disease variant, DNA-binding, Isopeptide bond, Lipid-binding, Lipoprotein, Metal-binding, Neurodegeneration, Nucleus, Palmitate, Phosphoprotein, Proteomics identification, Pseudohermaphroditism, Receptor, Reference proteome, Steroid-

binding, Transcription, Transcription regulation, Triplet repeat expansion, Ubl conjugation, Zinc, Zinc-finger
P23219: 3D-structure, Alternative splicing, Dioxygenase, Disulfide bond, EGF-like domain, Endoplasmic reticulum, Fatty acid biosynthesis, Fatty acid metabolism, Glycoprotein, Heme, Iron, Lipid biosynthesis, Lipid metabolism, Membrane, Metal-binding, Microsome, Oxidoreductase, Peroxidase, Prostaglandin biosynthesis, Prostaglandin metabolism, Proteomics identification, Reference proteome, Signal
Q16620: 3D-structure, Alternative splicing, ATP-binding, Cell membrane, Cell projection, Cytoplasm, Developmental protein, Differentiation, Disease variant, Disulfide bond, Endosome, Epilepsy, Glycoprotein, Immunoglobulin domain, Kinase, Leucine-rich repeat, Membrane, Neurogenesis, Nucleotide-binding, Obesity, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Repeat, Signal, Synapse, Transferase, Transmembrane, Transmembrane helix, Tyrosine-protein kinase, Ubl conjugation
P0A7K2: 3D-structure, Acetylation, Direct protein sequencing, Methylation, Reference proteome, Ribonucleoprotein, Ribosomal protein
P62399: 3D-structure, Acetylation, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding, tRNA-binding
P02358: 3D-structure, Acetylation, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding
P0A7M9: 3D-structure, Acetylation, Direct protein sequencing, Metal-binding, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding, Zinc
P02919: 3D-structure, Alternative initiation, Antibiotic resistance, Carboxypeptidase, Cell inner membrane, Cell membrane, Cell shape, Cell wall biogenesis/degradation, Direct protein sequencing, Glycosyltransferase, Hydrolase, Membrane, Multifunctional enzyme, Peptidoglycan synthesis, Protease, Reference proteome, Signal-anchor, Transferase, Transmembrane, Transmembrane helix
P0A7K6: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding
P0ADZ0: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding
P0AG55: 3D-structure, Acetylation, Antibiotic resistance, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding
P0C018: 3D-structure, Direct protein sequencing, Phosphoprotein, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding
P61175: 3D-structure, Antibiotic resistance, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding
P0A7N9: 3D-structure, Direct protein sequencing, Methylation, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, tRNA-binding
P0A7L0: 3D-structure, Direct protein sequencing, Reference proteome, Repressor, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding, Translation regulation, tRNA-binding

P0A7L3: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding
P0ADY7: 3D-structure, Direct protein sequencing, Hydroxylation, Methylation, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding, tRNA-binding
P0AES6: 3D-structure, Antibiotic resistance, ATP-binding, Cytoplasm, Direct protein sequencing, DNA-binding, Isomerase, Magnesium, Metal-binding, Nucleotide-binding, Potassium, Reference proteome, Sodium, Topoisomerase
P20083: 3D-structure, Antibiotic resistance, ATP-binding, DNA-binding, Isomerase, Magnesium, Metal-binding, Nucleotide-binding, Reference proteome, Topoisomerase
P03433: 3D-structure, Cap snatching, Endonuclease, Eukaryotic host gene expression shutoff by virus, Eukaryotic host transcription shutoff by virus, Host cytoplasm, Host gene expression shutoff by virus, Host nucleus, Host-virus interaction, Hydrolase, Inhibition of host RNA polymerase II by virus, Manganese, Metal-binding, Nuclease, Phosphoprotein, Reference proteome, Ribosomal frameshifting
P0AD64: 3D-structure, Antibiotic resistance, Disulfide bond, Hydrolase, Plasmid, Signal
Q9F663: 3D-structure, Antibiotic resistance, Hydrolase, Plasmid, Signal
P04578: 3D-structure, AIDS, Apoptosis, Clathrin-mediated endocytosis of virus by host, Cleavage on pair of basic residues, Coiled coil, Disulfide bond, Fusion of virus membrane with host endosomal membrane, Fusion of virus membrane with host membrane, Glycoprotein, Host cell membrane, Host endosome, Host membrane, Host-virus interaction, Lipoprotein, Membrane, Palmitate, Reference proteome, Signal, Transmembrane, Transmembrane helix, Viral attachment to host cell, Viral envelope protein, Viral immunoevasion, Viral penetration into host cytoplasm, Virion, Virus endocytosis by host, Virus entry into host cell
P0C6U8: 3D-structure, Activation of host autophagy by virus, Decay of host mRNAs by virus, Disulfide bond, Endonuclease, Eukaryotic host gene expression shutoff by virus, Eukaryotic host translation shutoff by virus, Host cytoplasm, Host endoplasmic reticulum, Host endosome, Host gene expression shutoff by virus, Host Golgi apparatus, Host membrane, Host mRNA suppression by virus, Host-virus interaction, Hydrolase, Inhibition of host innate immune response by virus, Inhibition of host interferon signaling pathway by virus, Inhibition of host IRF3 by virus, Inhibition of host ISG15 by virus, Inhibition of host RLR pathway by virus, Interferon antiviral system evasion, Lyase, Membrane, Metal-binding, Methyltransferase, Modulation of host ubiquitin pathway by viral deubiquitinase, Modulation of host ubiquitin pathway by virus, Nuclease, Protease, Reference proteome, Repeat, Ribosomal frameshifting, RNA-binding, Thiol protease, Transferase, Transmembrane, Transmembrane helix, Ubl conjugation pathway, Viral immunoevasion, Zinc, Zinc-finger
P0C731: ATP-binding, Early protein, Host nucleus, Host-virus interaction, Inhibition of host innate immune response by virus, Inhibition of host IRF3 by virus, Inhibition of host RLR pathway by virus, Kinase, Modulation of host chromatin by virus, Nucleotide-binding, Serine/threonine-protein kinase, Transferase, Viral immunoevasion, Virion, Virion tegument
P10613: 3D-structure, Endoplasmic reticulum, Heme, Iron, Lipid biosynthesis,

Lipid metabolism, Membrane, Metal-binding, Monooxygenase, Oxidoreductase, Reference proteome, Steroid biosynthesis, Steroid metabolism, Sterol biosynthesis, Sterol metabolism, Transmembrane, Transmembrane helix
P0A7Q6: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding
P0C1U9: Antibiotic resistance, Cell membrane, DNA-binding, Isomerase, Membrane, Topoisomerase
P0A7P5: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein
P0DG06: Cell membrane, DNA-binding, Isomerase, Membrane, Topoisomerase
P0DG04: ATP-binding, Cytoplasm, DNA-binding, Isomerase, Magnesium, Metal-binding, Nucleotide-binding, Topoisomerase
P0DG02: ATP-binding, Cytoplasm, DNA-binding, Isomerase, Nucleotide-binding, Topoisomerase
Q2EEQ2: 3D-structure, Reference proteome, Ribonucleoprotein, Ribosomal protein, Stress response
Q3S340: 3D-structure, Calcium, Glycoprotein, Glycosidase, Host cell membrane, Host membrane, Hydrolase, Membrane, Metal-binding, Signal-anchor, Transmembrane, Transmembrane helix, Virion
Q8JXU8: ATP-binding, Helicase, Hydrolase, Membrane, Nucleotide-binding, Nucleotidyltransferase, Protease, RNA-directed RNA polymerase, Serine protease, Transferase, Viral RNA replication
Q4WLT4: Glycosyltransferase, Membrane, Reference proteome, Transferase, Transmembrane, Transmembrane helix
G0XSE7: Host endoplasmic reticulum, Host Golgi apparatus, Host membrane, Host-virus interaction, Lipoprotein, Membrane, Palmitate, Viral budding, Viral budding via the host ESCRT complexes, Viral envelope protein, Viral release from host cell, Virion
A0A0A1P6P0: Heme, Iron, Membrane, Metal-binding, Methyltransferase, Monooxygenase, Oxidoreductase, Reference proteome, Transferase, Transmembrane, Transmembrane helix
F2SF18: Aminoacyl-tRNA synthetase, ATP-binding, Ligase, Nucleotide-binding, Protein biosynthesis, Reference proteome
O13428: Glycosyltransferase, Membrane, Transferase, Transmembrane, Transmembrane helix
Q76129: No keywords
A0A1D8PMZ1: No keywords
A0AVC5: No keywords
A0PKB1: No keywords
A1L4F4: No keywords
A2RUN2: No keywords
A2TDB6: No keywords
A3KQT0: No keywords
A4GXH6: No keywords
A6NIQ5: No keywords
A6NJR3: No keywords
A6P4V4: No keywords
A8K094: No keywords

A8K096: No keywords
A8K0H3: No keywords
A8K115: No keywords
A8K150: No keywords
A8K1K5: No keywords
A8K1V7: No keywords
A8K2E0: No keywords
A8K3I7: No keywords
A8K400: No keywords
A8K4N0: No keywords
A8K6G5: No keywords
A8K6T9: No keywords
A8K7R1: No keywords
A8K8Z5: No keywords
A8K9V4: No keywords
A8KA32: No keywords
A8KA36: No keywords
A8MPV9: No keywords
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B0YJ91: No keywords
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B0ZBD8: No keywords
B0ZBD9: No keywords
B0ZBF5: No keywords
B1ALM2: No keywords
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B2R495: No keywords
B2R4F0: No keywords
B2R4L3: No keywords
B2R549: No keywords
B2R5G0: No keywords
B2R5J4: No keywords
B2R6U7: No keywords
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B4DXI3: No keywords
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B7Z2J7: No keywords
B7Z492: No keywords
B7Z4Q9: No keywords
B7Z5R1: No keywords
B7Z8Q0: No keywords
B7Z917: No keywords
B7Z940: No keywords
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D3DWN2: No keywords
D9YZU2: No keywords
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E9PHI9: No keywords
F5GX36: No keywords
F5H5L6: No keywords
F8VWC5: No keywords
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G3XAD7: No keywords
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Q17R61: No keywords
Q17RZ6: No keywords
Q19PG0: No keywords
Q20BG8: No keywords
Q29824: No keywords
Q2M1Y6: No keywords
Q2M3Q3: No keywords
Q2M707: No keywords
Q2M8S2: No keywords
Q2M8S4: No keywords

Q2M8Y2: No keywords
Q2MAQ6: No keywords
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Q9Y3N1: No keywords
Q9Y6C8: No keywords
Q9Y6P4: No keywords
O00591: Cell membrane, Chloride, Chloride channel, Disulfide bond, Glycoprotein, Ion channel, Ion transport, Membrane, Proteomics identification, Reference proteome, Signal, Transmembrane, Transmembrane helix, Transport
P15880: 3D-structure, Acetylation, Citrullination, Cytoplasm, Direct protein sequencing, Isopeptide bond, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
P17252: 3D-structure, Acetylation, Angiogenesis, Apoptosis, ATP-binding, Calcium, Cell adhesion, Cell membrane, Cytoplasm, Direct protein sequencing, Kinase, Membrane, Metal-binding, Mitochondrion, Nucleotide-binding, Nucleus, Phosphoprotein, Proteomics identification, Proto-oncogene, Reference proteome, Repeat, Serine/threonine-protein kinase, Transferase, Zinc, Zinc-finger
P25103: 3D-structure, Alternative splicing, Cell membrane, Disulfide bond, G-protein coupled receptor, Glycoprotein, Lipoprotein, Membrane, Palmitate,

Proteomics identification, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
P48039: 3D-structure, Cell membrane, Disulfide bond, G-protein coupled receptor, Glycoprotein, Membrane, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
Q02108: 3D-structure, Alternative splicing, cGMP biosynthesis, Cytoplasm, GTP-binding, Lyase, Nucleotide-binding, Phosphoprotein, Proteomics identification, Reference proteome
O94806: 3D-structure, Alternative splicing, ATP-binding, Cytoplasm, Kinase, Magnesium, Membrane, Metal-binding, Nucleotide-binding, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Serine/threonine-protein kinase, Transferase, Zinc, Zinc-finger
P15056: 3D-structure, Acetylation, Allosteric enzyme, ATP-binding, Cardiomyopathy, Cell membrane, Chromosomal rearrangement, Cytoplasm, Deafness, Direct protein sequencing, Disease variant, Ectodermal dysplasia, Intellectual disability, Isopeptide bond, Kinase, Membrane, Metal-binding, Methylation, Nucleotide-binding, Nucleus, Phosphoprotein, Proteomics identification, Proto-oncogene, Reference proteome, Serine/threonine-protein kinase, Transferase, Ubl conjugation, Zinc, Zinc-finger
P41743: 3D-structure, Acetylation, ATP-binding, Cytoplasm, Endosome, Kinase, Membrane, Metal-binding, Nucleotide-binding, Nucleus, Phosphoprotein, Proteomics identification, Proto-oncogene, Reference proteome, Serine/threonine-protein kinase, Transferase, Tumor suppressor, Zinc, Zinc-finger
P52333: 3D-structure, Adaptive immunity, Alternative splicing, ATP-binding, Cytoplasm, Disease variant, Immunity, Innate immunity, Kinase, Membrane, Nucleotide-binding, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, SCID, SH2 domain, Transferase, Tyrosine-protein kinase
P83881: 3D-structure, Cytoplasm, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein
Q02156: 3D-structure, ATP-binding, Cell adhesion, Cell cycle, Cell division, Cell membrane, Cytoplasm, Cytoskeleton, Immunity, Kinase, Membrane, Metal-binding, Nucleotide-binding, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Serine/threonine-protein kinase, Transferase, Zinc, Zinc-finger
Q12879: 3D-structure, Alternative splicing, Calcium, Cell membrane, Cell projection, Chromosomal rearrangement, Cytoplasmic vesicle, Disease variant, Disulfide bond, Epilepsy, Glycoprotein, Ion channel, Ion transport, Ligand-gated ion channel, Magnesium, Membrane, Metal-binding, Phosphoprotein, Postsynaptic cell membrane, Proteomics identification, Receptor, Reference proteome, Signal, Synapse, Transmembrane, Transmembrane helix, Transport, Zinc
P05129: 3D-structure, Alternative splicing, ATP-binding, Biological rhythms, Calcium, Cell membrane, Cell projection, Cytoplasm, Disease variant, Kinase, Membrane, Metal-binding, Neurodegeneration, Nucleotide-binding, Phosphoprotein, Proteomics identification, Reference proteome, Repeat, Serine/threonine-protein kinase, Spinocerebellar ataxia, Synapse, Synaptosome, Transferase, Ubl conjugation, Zinc, Zinc-finger
P15538: 3D-structure, Alternative splicing, Congenital adrenal hyperplasia, Direct protein sequencing, Disease variant, Heme, Iron, Lipid biosynthesis,

Lipid metabolism, Membrane, Metal-binding, Mitochondrion, Mitochondrion inner membrane, Monooxygenase, Oxidoreductase, Proteomics identification, Reference proteome, Steroid biosynthesis, Steroidogenesis, Transit peptide
P18507: 3D-structure, Alternative splicing, Cell membrane, Cell projection, Chloride, Chloride channel, Cytoplasmic vesicle, Disease variant, Disulfide bond, Epilepsy, Glycoprotein, Ion channel, Ion transport, Lipoprotein, Membrane, Palmitate, Postsynaptic cell membrane, Proteomics identification, Reference proteome, Signal, Synapse, Transmembrane, Transmembrane helix, Transport
P23396: 3D-structure, Acetylation, Alternative splicing, Apoptosis, Cell cycle, Cell division, Cytoplasm, Cytoskeleton, Direct protein sequencing, DNA damage, DNA repair, DNA-binding, Isopeptide bond, Lyase, Membrane, Methylation, Mitochondrion, Mitochondrion inner membrane, Mitosis, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, Transcription, Transcription regulation, Translation regulation, Ubl conjugation
P27635: 3D-structure, Autism, Autism spectrum disorder, Citrullination, Cytoplasm, Developmental protein, Direct protein sequencing, Disease variant, Intellectual disability, Isopeptide bond, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Translation regulation, Ubl conjugation
P43686: 3D-structure, Acetylation, Alternative splicing, ATP-binding, Cytoplasm, Direct protein sequencing, Nucleotide-binding, Nucleus, Phosphoprotein, Proteasome, Proteomics identification, Reference proteome
P47869: Alternative splicing, Cell membrane, Cell projection, Chloride, Chloride channel, Cytoplasmic vesicle, Disease variant, Disulfide bond, Epilepsy, Glycoprotein, Ion channel, Ion transport, Ligand-gated ion channel, Membrane, Postsynaptic cell membrane, Proteomics identification, Receptor, Reference proteome, Signal, Synapse, Transmembrane, Transmembrane helix, Transport
P60900: 3D-structure, Acetylation, Alternative splicing, Cytoplasm, Direct protein sequencing, Glycoprotein, Nucleus, Phosphoprotein, Proteasome, Proteomics identification, Reference proteome
P62333: 3D-structure, Acetylation, ATP-binding, Cytoplasm, Direct protein sequencing, Nucleotide-binding, Nucleus, Phosphoprotein, Proteasome, Proteomics identification, Reference proteome
P62750: 3D-structure, Acetylation, Citrullination, Cytoplasm, Isopeptide bond, Methylation, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding, Ubl conjugation
Q15303: 3D-structure, Activator, Alternative splicing, Amyotrophic lateral sclerosis, Apoptosis, ATP-binding, Cell membrane, Developmental protein, Disease variant, Disulfide bond, Glycoprotein, Kinase, Lactation, Membrane, Mitochondrion, Neurodegeneration, Nucleotide-binding, Nucleus, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Repeat, Signal, Transcription, Transcription regulation, Transferase, Transmembrane, Transmembrane helix, Tyrosine-protein kinase, Ubl conjugation
P12829: Atrial fibrillation, Disease variant, Methylation, Motor protein, Muscle protein, Myosin, Proteomics identification, Reference proteome, Repeat
P28072: 3D-structure, Acetylation, Cytoplasm, Direct protein sequencing, Host-

virus interaction, Hydrolase, Nucleus, Phosphoprotein, Protease, Proteasome, Proteomics identification, Reference proteome, Threonine protease, Zymogen
P48556: 3D-structure, Isopeptide bond, Phosphoprotein, Proteasome, Proteomics identification, Reference proteome, Ubl conjugation
Q05513: Alternative promoter usage, Alternative splicing, ATP-binding, Cell junction, Cytoplasm, Endosome, Inflammatory response, Kinase, Membrane, Metal-binding, Nucleotide-binding, Phosphoprotein, Proteomics identification, Reference proteome, Serine/threonine-protein kinase, Transferase, Zinc, Zinc-finger
Q9Y3Q4: 3D-structure, Brugada syndrome, cAMP, cAMP-binding, Cell membrane, Disease variant, Epilepsy, Glycoprotein, Ion channel, Ion transport, Ligand-gated ion channel, Membrane, Nucleotide-binding, Phosphoprotein, Potassium, Potassium channel, Potassium transport, Proteomics identification, Reference proteome, Sodium, Sodium channel, Sodium transport, Transmembrane, Transmembrane helix, Transport, Voltage-gated channel
O15379: 3D-structure, Alternative splicing, Biological rhythms, Chromatin regulator, Chromosome, Cytoplasm, Host-virus interaction, Hydrolase, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Repressor, Transcription, Transcription regulation, Ubl conjugation
P04818: 3D-structure, Alternative splicing, Cytoplasm, Direct protein sequencing, Disease variant, Dyskeratosis congenita, Isopeptide bond, Membrane, Methyltransferase, Mitochondrion, Mitochondrion inner membrane, Nucleotide biosynthesis, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Transferase, Ubl conjugation
P21554: 3D-structure, Alternative splicing, Cell membrane, Cell projection, G-protein coupled receptor, Glycoprotein, Lipoprotein, Membrane, Mitochondrion, Mitochondrion outer membrane, Neurodegeneration, Obesity, Palmitate, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Synapse, Transducer, Transmembrane, Transmembrane helix
P30556: 3D-structure, Cell membrane, Disease variant, Disulfide bond, G-protein coupled receptor, Glycoprotein, Host-virus interaction, Lipoprotein, Membrane, Palmitate, Phosphoprotein, Proteomics identification, Receptor, Reference proteome, Transducer, Transmembrane, Transmembrane helix
Q13200: 3D-structure, Acetylation, Alternative splicing, Direct protein sequencing, Phosphoprotein, Proteasome, Proteomics identification, Reference proteome, Repeat
Q96KS0: 3D-structure, Alternative initiation, Dioxygenase, Iron, Metal-binding, Nucleus, Oxidoreductase, Phosphoprotein, Proteomics identification, Reference proteome, Ubl conjugation, Vitamin C
P05386: 3D-structure, Acetylation, Alternative splicing, Isopeptide bond, Phosphoprotein, Proteomics identification, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ubl conjugation
P16234: 3D-structure, Alternative splicing, ATP-binding, Cell membrane, Cell projection, Chemotaxis, Developmental protein, Disease variant, Disulfide bond, Glycoprotein, Golgi apparatus, Host-virus interaction, Immunoglobulin domain, Kinase, Membrane, Nucleotide-binding, Phosphoprotein, Proteomics identification, Proto-oncogene, Receptor, Reference proteome, Repeat, Signal, Transferase, Transmembrane, Transmembrane helix, Tyrosine-protein kinase, Ubl conjugation

P25788: 3D-structure, Acetylation, Alternative splicing, Cytoplasm, Direct protein sequencing, Host-virus interaction, Nucleus, Phosphoprotein, Proteasome, Proteomics identification, Reference proteome
Q969S8: Alternative splicing, Autophagy, Cytoplasm, DNA damage, DNA recombination, DNA repair, Hydrolase, Metal-binding, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Zinc
P09619: 3D-structure, Alternative splicing, ATP-binding, Cell membrane, Chemotaxis, Chromosomal rearrangement, Cytoplasmic vesicle, Developmental protein, Direct protein sequencing, Disease variant, Disulfide bond, Glycoprotein, Immunoglobulin domain, Kinase, Lysosome, Membrane, Nucleotide-binding, Phosphoprotein, Proteomics identification, Proto-oncogene, Receptor, Reference proteome, Repeat, Signal, Transferase, Transmembrane, Transmembrane helix, Tyrosine-protein kinase, Ubl conjugation
P07333: 3D-structure, Alternative splicing, ATP-binding, Cell membrane, Disease variant, Disulfide bond, Glycoprotein, Immunity, Immunoglobulin domain, Inflammatory response, Innate immunity, Kinase, Membrane, Neurodegeneration, Nucleotide-binding, Phosphoprotein, Proteomics identification, Proto-oncogene, Receptor, Reference proteome, Repeat, Signal, Transferase, Transmembrane, Transmembrane helix, Tyrosine-protein kinase, Ubl conjugation
P28062: 3D-structure, Alternative splicing, Cytoplasm, Differentiation, Disease variant, Host-virus interaction, Hydrolase, Immunity, Nucleus, Phosphoprotein, Protease, Proteasome, Proteomics identification, Reference proteome, Threonine protease, Zymogen
P33402: Alternative splicing, cGMP biosynthesis, Cytoplasm, GTP-binding, Lyase, Nucleotide-binding, Proteomics identification, Reference proteome
Q15008: 3D-structure, Alternative splicing, Proteasome, Proteomics identification, Reference proteome
Q9UKV0: 3D-structure, Alternative splicing, Chromatin regulator, Chromosomal rearrangement, Hydrolase, Metal-binding, Nucleus, Phosphoprotein, Proteomics identification, Reference proteome, Repressor, Transcription, Transcription regulation, Ubl conjugation, Zinc
P0A7R9: 3D-structure, Direct protein sequencing, Methylation, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding
P0AD68: 3D-structure, Carboxypeptidase, Cell cycle, Cell division, Cell inner membrane, Cell membrane, Cell shape, Cell wall biogenesis/degradation, Hydrolase, Membrane, Peptidoglycan synthesis, Protease, Reference proteome, Septation, Transmembrane, Transmembrane helix
P0AES4: 3D-structure, Antibiotic resistance, ATP-binding, Cytoplasm, Direct protein sequencing, DNA-binding, Isomerase, Nucleotide-binding, Reference proteome, Topoisomerase
P02918: Antibiotic resistance, Carboxypeptidase, Cell inner membrane, Cell membrane, Cell shape, Cell wall biogenesis/degradation, Direct protein sequencing, Glycosyltransferase, Hydrolase, Membrane, Multifunctional enzyme, Peptidoglycan synthesis, Protease, Reference proteome, Signal-anchor, Transferase, Transmembrane, Transmembrane helix
P0A7W7: 3D-structure, Direct protein sequencing, Reference proteome, Repressor, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding, Translation regulation

P0AG67: 3D-structure, Acetylation, Chaperone, Cytoplasm, Direct protein sequencing, Phosphoprotein, Reference proteome, Repeat, Repressor, Ribonucleoprotein, Ribosomal protein, RNA-binding
P24228: 3D-structure, Antibiotic resistance, Cell cycle, Cell division, Cell shape, Cell wall biogenesis/degradation, Direct protein sequencing, Hydrolase, Peptidoglycan synthesis, Periplasm, Reference proteome, Signal
P0AG63: 3D-structure, Antibiotic resistance, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding
P0ADZ4: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding, Translation regulation
P0A7R5: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, Ribosome biogenesis, RNA-binding, Transcription, Transcription antitermination, Transcription regulation
P0A7T3: 3D-structure, Direct protein sequencing, Endonuclease, Hydrolase, Nuclease, Reference proteome, Ribonucleoprotein, Ribosomal protein
P0A7U7: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding
P0A800: 3D-structure, Direct protein sequencing, DNA-directed RNA polymerase, Nucleotidyltransferase, Reference proteome, Transcription, Transferase
P68679: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding
P0DTD1: 3D-structure, Activation of host autophagy by virus, ATP-binding, Decay of host mRNAs by virus, Disulfide bond, Endonuclease, Eukaryotic host gene expression shutoff by virus, Eukaryotic host translation shutoff by virus, Exonuclease, Helicase, Host cytoplasm, Host endoplasmic reticulum, Host endosome, Host gene expression shutoff by virus, Host Golgi apparatus, Host membrane, Host mRNA suppression by virus, Host nucleus, Host-virus interaction, Hydrolase, Inhibition of host innate immune response by virus, Inhibition of host interferon signaling pathway by virus, Inhibition of host IRF3 by virus, Inhibition of host ISG15 by virus, Inhibition of host NF-kappa-B by virus, Inhibition of host RLR pathway by virus, Inhibition of host TBK1 by virus, Inhibition of host TLR pathway by virus, Interferon antiviral system evasion, Isopeptide bond, Leucine-rich repeat, Lyase, Membrane, Metal-binding, Methyltransferase, Modulation of host ubiquitin pathway by viral deubiquitinase, Modulation of host ubiquitin pathway by virus, Nuclease, Nucleotide-binding, Nucleotidyltransferase, Protease, Reference proteome, Repeat, Ribosomal frameshifting, RNA-binding, RNA-directed RNA polymerase, Thiol protease, Transferase, Transmembrane, Transmembrane helix, Ubl conjugation, Ubl conjugation pathway, Viral immunoevasion, Viral RNA replication, Zinc, Zinc-finger
P03474: 3D-structure, Calcium, Disulfide bond, Glycoprotein, Glycosidase, Host cell membrane, Host membrane, Hydrolase, Membrane, Metal-binding, Reference proteome, Signal-anchor, Transmembrane, Transmembrane helix, Virion
P0AG51: 3D-structure, Direct protein sequencing, Reference proteome, Ribonucleoprotein, Ribosomal protein
P0AG48: 3D-structure, Direct protein sequencing, Reference proteome,

Ribonucleoprotein, Ribosomal protein, RNA-binding, rRNA-binding
P0C1S7: ATP-binding, DNA-binding, Isomerase, Magnesium, Metal-binding, Nucleotide-binding, Topoisomerase
D3JXP9: Antibiotic resistance, Hydrolase, Plasmid, Signal
Q72547: 3D-structure, Aspartyl protease, DNA integration, DNA recombination, Endonuclease, Hydrolase, Metal-binding, Multifunctional enzyme, Nuclease, Nucleotidyltransferase, Protease, RNA-directed DNA polymerase, Transferase, Zinc, Zinc-finger
Q9P8R0: Heme, Iron, Membrane, Metal-binding, Methyltransferase, Monooxygenase, Oxidoreductase, Transferase, Transmembrane, Transmembrane helix
D2K2A8: Membrane, Transmembrane, Transmembrane helix
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Q9H3C9: No keywords
Q9H3P6: No keywords
Q9HBV6: No keywords
Q9NV40: No keywords
Q9NYR7: No keywords
Q9NZ64: No keywords
Q9R2E5: No keywords
Q9UCD6: No keywords
Q9UCZ1: No keywords
Q9UD26: No keywords
Q9UDC2: No keywords
Q9UDC3: No keywords
Q9UDZ7: No keywords
Q9UE81: No keywords
Q9UHE0: No keywords
Q9UIH3: No keywords
Q9UJ38: No keywords
Q9UPD1: No keywords
Q9UPF7: No keywords
Q9Y6S2: No keywords
```

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