

>sp|Q9WVE8|PACN2-MOUSE Protein kinase C and casein kinase substrate in neurons protein 2 OS=Mus musculus OX=10090 GN=Pacsin2 PE=1 SV=1
MSVTYDDSVGVEVSSDSFWEVGNKYKRTVVKRIDDGHRLCGLMNCNLERARIEKAYAQQLTTEWARRWRQLVEKGPQYGTVEKAWIAVMSEAERVSELHLEVKASLMNEDFEKIKNWQKEAFHKQMMGGFKETKE
AEDGFRKAQKPAWAKLKEVEAAKKAHTTACKEEKLAIISREANSKADPSLNPEQLKQLDKIECKQDVLKTKDKYEKSLKELDQTTPOYMENMEQVFEQCQQFEEKRLRFFREVLLLEVQKHLDSLNVASYKTI
YRELEQSIKAADAVEDLRWFRANHGPGMAMNWPQFEWEWSADLNRTLSSREKKKAVDGVTLTGINQTGDQSGQNKPGSNLSVPSNPAQSTQLQSSYNPFEDDDTSSISEKEDIKAKNVSSYEKTQTYPTDWS
DDESNNPFSSTDANGDSNPFDEDTTSGTEVRVRLYDYEGQEHDELSFKAGDELTKIEDEDEQGCKGRLLDSGQVGLYPANYVEAIQ

>sp|P63037|DNJA1-MOUSE DnaJ homolog subfamily A member 1 OS=Mus musculus OX=10090 GN=Dnaja1 PE=1 SV=1
MVKETTYDYDLGVKPNATQEELKKAYRKLALKYHPDKPNNEGEKFKQISQAYEVLADSKKRELYDKGGEQAIKEGGAGGGFGSPMDIFDMFFGGGGGRMQRRRRGKNVVHQLSVTLEDLYNGATRKLALQKNVI
CDKCEGRGGKKAQAVCCPNCRCGTGMQIRIHQIGPGMVQIQSVCMECQGHGERISPKDRCKSCNGRKRIVREKKILEVHIDKGMKDGQKITFHGEGDQEPGLEPGDIIIVLDQKDHAVFTRRGEDLFMCMDIQL
VEALCGFQKPISTLDNRTIVITSHPGQIVKHGDIKCVLNEGMPYIRRPYEKGRLLIEFKVNFPENGFLSPDKLSLLEKLLPERKEVEETDEMDOVELVDFDPNQERRRRHYNGEAYEDEHHPRGVQCQTS

>sp|P26040|EZRI-MOUSE Ezrin OS=Mus musculus OX=10090 GN=Ezr PE=1 SV=3
MPKPINVRVTTMDAELEFAIQPNTTGKQLFDQVVKITGLREVWYFGLQYVDNKGFPWLKLDKVKVSAQEVKRNENPVQFKFRAKFPYEDVAEELIQDITQKLLFQVKGILSDEIYCPPETAVLLGSYAVQAK
FGDYNKEMHKSGLSSERLIPQVRMDQHKLSDQWEDRIQVWHAHRGMLKDSAMLEYLKIADLEMYGINYFEIKNKKGTDLWLGVDALGLNIYEKDDKLTPKIGFPWSEIRNISEFNDKKFVIKPIDKKAPD
FVFYAPRLRINKRIILQLCMGNHELYMRRRKPDTIEVQMQKAQAREEKHQKQLERQQLETEKRRRETVEREKEQMLREKEELMLRLQDYEQKTKRAEKELSEQIEKALQLEEEERRRAQEEAERLEADRMAALRA
KEELERQAQDQIKSQEQLAAELAEYAKIALLEEARRRKEDEVEEQHRAKEAQDDLVTKEELHLVMTAPPPPPVYEPVNYHVQEGQLQDEGAEPMGYSAELSSEGILDDRNEEKRITEAEKNERVQRQLL
TSLNELSQARDENKRTHNDIIHNENMRQGRDKYKTLRQIRQGNTKQRIDEFEAM

>sp|P63101|1433Z-MOUSE 14-3-3 protein zeta/delta OS=Mus musculus OX=10090 GN=Ywhaz PE=1 SV=1
MDKNELVQKAKLAEQAERYDDMAACMKSVTEQGAELSNEERNLLSVAYKNNVVGARRSSWRVSSIEQKTEGAEEKQMMAREYREKIETELDRDICNDVLSLLEKFLIPNASQPESKVFYLMKMGDYRYRLAEVA
AGDDKKGIVDQSQAYQEAFAEISKKEMQPTHPIRLGLALNFSVFYIEILNSPEKACSLAKTAFDEAIAELDTLSEESYKDSTLIMQLLRDNLTLWTSDTQGDQDEAEAGEGGEN

>sp|Q61187|TS101-MOUSE Tumor susceptibility gene 101 protein OS=Mus musculus OX=10090 GN=Tsg101 PE=1 SV=2
MAVSESQLKMMMSKYRDLTVRQTVNVIAMYKDLKPVLDYSVFNDSGSSRELVNLTGTIPVRYRGNINYINIPICLWLLDTPYNPPICFVKPTSSMTIKTGKHVDANGKIYLPYLDWKHPRSELLELIQIMIV
IFGEEPPVFSRPTVSASYPPYTATGPPNTSYMPGMPGSGISAYPSGYPPNPSGYPGCPYPPAGPYPATSSQYPSQPPVTTVGPSRDGTISEDITRASLISAVSDKLRWRMKEEMDGAQAEALNALKRTEEDLKK
GHQKLEEMVTRLDQVAEVDKNIELLLKKKDEELSSALEKMNQSENNDIDEVIIPTAPLYKQIILNLYAEENAIEDTIFYLGEALRRGVIDLDVFLKHVRLLSRKQFQLRALMQKARKTAGLSLDY

>sp|P11499|HS90B-MOUSE Heat shock protein HSP 90-beta OS=Mus musculus OX=10090 GN=Hsp90ab1 PE=1 SV=3
MPEEVHGHGEEVETFAFAQAEIAQLMSLIINTFYSNKEIFLRELISNASDALDKIRYESLTDPSKLDGSKELKIDIIIPNPQERTLTLVDTGIGMTKADLNNLGTIAKSGTKAFMEALQAGADISMIGQFGVGF
YSAYLVAEKVVVITKHNDDEQYAWESSAGGSFTVRADHGEPGRGTQVILHLKEDQTEYLEERRVKEVVKKHSQFIGYPITLYLEKEREKEISDDEAEKEEKEEEDKEDEEKPKIEDVGSDEEDDSGKDKK
KKTTKIKEKYIDQEEELNKTPIWTRNPDITQEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFIPRRAPFDLFENKKNKNNIKLYVRRVFMDSCEDELIPEYLNFIIRGVVDSDELPLNISREMLQQSK
ILKVIKRNIVKCCLELFSLEAEDKENYKFFYEAFSKNLKLGIHEDSTNRRRLSELLRYHTSQSGDEMTSLSEYVSRMKETQKSIYYITGESKEQVANSFAVERVVRKRGFEVVMTEPIDEYCVQQKLEFDGKS
LVSVTKEGLELPEDEEKKKMEESKAKFENLCKLMKEILDKKVEKVTISNRLVSSPCIVTSTYGTANMERIMKAQALRDNSTMGYMMAKKHLEINPDHPIVETLRQKAEADKNDKAVKDLVLLFETALLS
SGFSLDDPQTHSNRIYMIKLGGLGIDDEVTAEEPSAAVPDEIIPLEGDEDASRMEEVD

>sp|Q91ZR2|SNX18-MOUSE Sorting nexin-18 OS=Mus musculus OX=10090 GN=Snx18 PE=1 SV=1
MALRARALYDFKSENPEISLREHEVLSLCSQDIEGWLEGINSRGDRGLFPASVYQVIRAPEPGPPADGGPGAPARYANVPPGGFEPPLPAAPPAAFPPLLQPQASPGSFQPPGAGFPYGGGALQPSPOQLY
GYQASLGSDDDDEWDDSSSTVADEPGALGSGAYPDLGSSSAGGAAGRYRLSTRSDLSLGSRGVSAPPAPSWSQELGHGEPQPQSLHLRQVGRGGLRAGRVRRLREGWGQAVRGAGSYGPEWQENPYPF
QCTIDDPTKQTKFKGMKSYISYKLVPTHTQVPVHRRYKHFDFWLYARLAEKFPVIVSVPHLPEKQATGRFEEDFISKRRKGLIWMNMHMAHPVLAQCVDVQHFLLTCSSTDEKAWKQGRKAEKDEMVGANFFL
TLSTPPAAALDLQEVESKIDGFKCFTKMDDSAQLNHTANEFARKQVTGFKKEYQKVGQSFRLSQAPELDDQAFVSVGLNQAIAFTGDAYDAIGELFAEQPRQDLDPVMDLLALYQGHLANFPDIIHVQKGA
LTKVKESRRHVEEGKMEVQKADGIQDRCNTISFATLAEIHHFHQIRVRDFKSQMQHFLQQQIIIFQKVTQKLEELHLYKYSV

>sp|Q9WU78|PDC6I-MOUSE Programmed cell death 6-interacting protein OS=Mus musculus OX=10090 GN=Pdc6ip PE=1 SV=3
MASFIWVQLKKTSEVDLAKPLVKFIQQTYPSGGEEQAQYCRAAEELSKLRRSALGRPLDKHEGALETLLRYDQICSEPKFPFSENQICLFTTWKDAFDKGSLSFGGSVKLALASLGYEKSCVLFNCAALASQ

IAAEQNLDNDEGLKTAAKQYQFASGAFHLIKDVTLSALSREPTVDISPDTVGTLSLIMLAQAQEVFFLKATRDKMKDAIIAKLANQAADYFGDAFKQCQYKDTLPKEVFPTLAAKQCIMQANA EYHQSI LAKQ
QKKFGEEIARLQHA AE LIKNVASRYDEYVNVKDFSDKINRALTA AKKDNDFIYHDRV PDLKDLDP I GKATLVKPTPVNVPVSQKFTDLFEKMPVPSVQQSLAVFSQRKADLVNRSIAQMREATTLANGVLASL
NLPAAIEDVSGDTPVQPSILTKSTSVVEQGGIQTVDQLIKELPELLQRNREILEESLRLLDEEEATDNDLR AKFKDRWQRTPSNDLYKPLRAEGAKFRAVL DKA VQADGQVKERYQSHRDTIAL LCKPEPELNA
AIPSANFAKTMQGSSEVSVLKSLLSNLDEIKKERESLENDLKS VNFDMTSKFLTAL AQDGVINEEALS VTELDRIYGG LTSKVQESLKKQEGLLKNIQVSHQEF SKMKQSNNEANLREEVLK NLA TAYDNFVE
LVANLKEGTFKYNELTEILVRVFCSDIVFARKTEDEL LKQSIAREPSAPSI PPPAYQSSPAAGHAAAPPTPAPRTMPPAKQP PPARPPPVP L PANRVPPASAAAAPAGVGTASAAPPQTPGSAPPPQ
AQGPPYPTYPGYPGYCQMPMPMGYNPYAYGQYNMPYPPVYHQSPGQAPYPGPQQPTYPFPQPQQSYYPQQ

>sp|Q62167|DDX3X-MOUSE ATP-dependent RNA helicase DDX3X OS=Mus musculus OX=10090 GN=Ddx3x PE=1 SV=3
MSHVAVENALGLDQQFAGLDLNSSDNQSGGSTASKGRYIPPHLRNREATKGFYDKDSSGWSSSKDKDAYSSFGSRGDSRGKSSFFGDRGSGSRGRFDDRGRGDYDYGIGGRGDRSGFGKFERGGNSRWCDKSDE
DDWSKPLPPSERLEQELFSGGNTGINFEKYDDIPEATGNNPCPHIESFSDVEMGEI IMGNIELTRYTRPTPVQKHAIP I I KEKRDLMACAQTGSGKTA AAFLLPILSQIYADGPGEALRAMKENG RYGRKQY
PISLVLAPTRELAVQIYEEARKFSYRSRVRPCVVYGGAEIGQQIRD LER GCHLLVATPGR LVDMMER GKIGLDFCKYLV LDEADRMLDMGFEPQIRRIVEQDTMP PKGVRHTMMFSATFPKEIQMLARDFLDE
YIFLAVGRVGTSENITQKV VVVEEIDKRSFLDLLNATGKDSLTLVVFVETKKGADSLEDFLYHEGYACTSIHGDRSQDR EEA LHQFRSGKSPILVATAVAARGLDI SNVKHVINFDLPSDIEEYVHRIGRT
GRVGNLGLATSFFNERNINITKDLLDLLVEAKQEVPSWLENMAFEHHYKGS SRGRSKSSRFSGGFGARDYRQSSGASSSSFS SSRASSRSRGGGGHGGSRGFGGGYGGFYNSDGYGGNYSQGV DWGN

>tr|Q4VAE6|Q4VAE6-MOUSE Ras family member A OS=Mus musculus OX=10090 GN=Rhoa PE=1 SV=1
MAAIRKKLIVVGDGACGKTC LLIVF SKDQFPEVYVPTVFENYVADIEVDGKQVELALWDTAGQEDYDRLRPLSYPD TDVILMCF SIDS PDSLEN IPEKWTPEVKHF C PNVPI I LVGNKKDLRND EHTRELA K
MKQEPVKPEEGRDMANRIGAFGYMECSAKTKDGVREVFEMATRAALQARRGKKKSGCLIL

>sp|P63017|HSP7C-MOUSE Heat shock cognate 71 kDa protein OS=Mus musculus OX=10090 GN=Hspa8 PE=1 SV=1
MSKGPVAVGIDLGTYSVGVFQHGKVEI IANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPTNTVFD AKRLIGRRFDDAVVQSDMKHWP FMVNDAGR PKVQVEYKGETKSFY PEEVSSMVLTKMKEIAEA
YLKGTVTNAVVTVPAYFNDSQRQATK DAGTIAGLNLVRIINEPTAAA IAYGLDKKVGAE RNVLI FDLGGGTFDVSILTIEDGIFEVKSTAGDTHLGGEDFDNRMVNH FIAEFKRKHKKDI SENKRAVRR LR TA
CERAKRTLSSSTQASIEIDSLYEGIDFYTSITRARFEELNADLFRGTLDPVEKALRDAKL DKSQIHDI VL VGGSTRIPKI QKLLQDF FNGKELNKS INPDEAVAYGAAVQAAILSGDKSENVQDLLL DVTPL
SLGIETAGGVMTVLIKRNTTIPTKTQTFTTYS DNQPGVLIQVYEGERAMTKDNNLLGKFELTGIPPAPRGVPIEIVTFDIDANGILNVS AVDKSTGKENKITITNDKGRLSKEDIERMVQEA EKYKA EDEKQ
RDKVSSKNSLESYAFNMKATVEDEK LQ GKINDEKQKILDKCNEIISWLDKNQTAEKEEFEHQQKELEKVCNPIITKLYQSAGMPGGMPGGFPGGGAPPSGGASSGPTIEEVD

>sp|Q9D1C8|VPS28-MOUSE Vacuolar protein sorting-associated protein 28 homolog OS=Mus musculus OX=10090 GN=Vps28 PE=1 SV=1
MFHGIPATPGV GAGPNKPELYEEVKLYKNAREREKYDNMAELFAVVKTMQALEKAYIKDCVTPNEYTAACSRLLVQYKAAFRVQVQGEISSIDEFCRKFRLDCPLAMERIKEDRPITIKDDKGNLNR CIADVV
SLFITVMDKLRLEIRAMDEIQPDLRELMETMHRM SHLPPDFEGRQTVSQWLQTLSGMSASDELDDSQVRQMLFDLESAYNAFN RFLHA

>sp|P63168|DYL1-MOUSE Dynein light chain 1, cytoplasmic OS=Mus musculus OX=10090 GN=Dynl11 PE=1 SV=1
MCDRAVIK NADMSEEMQQDSVECATQALEKY NIEKDIAAHIKKEFDKKYNPTWHCIVGRNFGSYVTHETKHFIYFYLQVAILL FFKSG

>sp|P10852|4F2-MOUSE 4F2 cell-surface antigen heavy chain OS=Mus musculus OX=10090 GN=Slc3a2 PE=1 SV=1
MSQDTEVDMKDVELNELEPEKQPMNAADGAAAGEKNGLVKIKVAEDETEAGVKFTGLSKEELLK VAGSPGWVRTRWALLLLFWLWGLM LAGAVVIIVRAPRCREL PVQRWWHKGALYRIGDLQAFVGRDAGG
IAGL KSHLEYLSTLKVGLVLGPIHKNQKDEINETDLKQINPTLGSQEDFKDLLQS AKKKS IHI I LD LTPNYQGN AWFLPAQADIVATKMKEALS SSWLQDGVDFQFRDVGKLMNAPLYLAEWQNI TKNLSE
DRLLIAGTESSDLQQIVNILESTSDLLTSSYLSNSTFTGERTESLVTRFLNATGSQWCSWSVSQAGLLADFI PDHLLRLYQLLLFTLPGTPVFSYGD E LGLQ GALPQP AKAPLMPWNESI FHI PRPVS LN
MTVKGQNE DPGSLLTQFRRLS DLRGKERSLLHGDFHALSSSPDLFSYIRHWDQNERYLVLNFRD SGRSARLGASNLPA GISLPASAKLLLSTDSARQS REEDTSLKLENLSLNPYEGLLLQFPFVA

>sp|P60335|PCBP1-MOUSE Poly(rC)-binding protein 1 OS=Mus musculus OX=10090 GN=Pcbp1 PE=1 SV=1
MDAGVTESGLNVTLTIRLLMHGKEVGSII GKKGESVKRIREESGARINISEGNCPERIITLTGPTNAIFKAFAMIDKLEEDINSMTN STAASRPVTLRLVVPATQCGSLIGKGGCKIKEIRESTGAQVQV
AGDMLPNSTERAITIAGVPQSVTECVKQICLVMLET L SQSPQGRVMTIPYQMPASSPVICAGGQDRCSDAAGYPHATHDLEGPPLDAYS IQGQHTISPLDLAKLNQVARQQSHFAMMHGGTGFAGIDSSSPE
VKGYWASLDASTQTTHELTIPNNLIGCIIGRQGANINEIRQMSGAQIKIANPVEGSSGRQVTITGSAASISLAQYLINARLSSEKMGCS

>sp|P46467|VPS4B-MOUSE Vacuolar protein sorting-associated protein 4B OS=Mus musculus OX=10090 GN=Vps4b PE=1 SV=2
MASTNTNLQKAIDLASKAAQEDKAGNYEEALQLYQHAVQYFLHVVKYEAQGDKAKQSIRAKCTEYLDRAEK LKEYLKKKEKPKQKPVKEEQSGPVDEKGNDSGAEASDDPEKKLQNLQGAIVIERPNVKW

SDVAGLEGAKEALKEAVILPIKPHLFTGKRTPWRGILLFGPPGTGKSYLAKAVATEANNSTFFSISSSDLVSKWLGESEKLVKNLFLQALARENKPSIIFIDEIDSLCGSRSENESEAAARRIKTEFLVQMGGVG
VDNDGILVLGATNI PWVLD SAIRRRFEKRIYIPLPEAHARAAMFRLHLGSTQNSL TEADFQELGRKTDGYSADISIIVRDALMQPVRKVQSATHFKKVRGPSRADPNCIVNDLLTPCSPGDPGAIEMTWMDV
PGDKLLEPVVSMWDMRLRSLSSSTKPTVNEQDLLKLLKFTEDFGQEG

>sp|Q99J93|IFM2-MOUSE Interferon-induced transmembrane protein 2 OS=Mus musculus OX=10090 GN=Ifitm2 PE=1 SV=1
MSHNSQAFLSTNAGLPPSYETIKEEYGVTELGEPSNSAVVRTTVINMPREVSVPDHSVWLSLFFNTLFFNACCLGFVAYYSVKSRDRKMVGDVVGAQAYASTAKCLNISSLIFSILMVIICIIIFSTTSVVVFQ
SFAQRTPHSGF

>sp|P63242|IF5A1-MOUSE Eukaryotic translation initiation factor 5A-1 OS=Mus musculus OX=10090 GN=Eif5a PE=1 SV=2
MADDLDFETGDAGASATFPMQCSALRKNFVVLKGRPKIVEMSTSKTGKHGHAKVHLVGDIDIFTGKKYEDICPSTHNMDVPNIKRNDFQLIGIQDGYLSLLQDSGEVREDLRLPEGLDKEIEQKYDCGEEI
LITVLSAMTEEAVAIKAMAK

>sp|P18760|COF1-MOUSE Cofilin-1 OS=Mus musculus OX=10090 GN=Cfl1 PE=1 SV=3
MASGVAVSDGVIKVFNMDKVRKSSSTPEEVKRRKKAVLFLCSEDKKNIIIEEGKEILVGDVGTVDVDDPYTTFFVKMLPKDKCRYALYDATYETKESKEDLVFIFWAPENAPLKSMMIYASSKDAIKKKLTGIKH
ELQANCYEEVKDRCTLAEKLGSSAVISLEGKPL

>sp|P0CG50|UBC-MOUSE Polyubiquitin-C OS=Mus musculus OX=10090 GN=Ubc PE=1 SV=2
MQIFVKTLTGKTTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLRGGMQIFVKTLTGKTTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTLS
DYNIQKESTLHLVLRRLRGGMQIFVKTLTGKTTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLRGGMQIFVKTLTGKTTITLEVEPSDTIENVKAKIQDKEGIP
DQQRLLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLRGGMQIFVKTLTGKTTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLRGGMQIFVKTLTGKTTITLEVEP
SDTIENVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLRGGMQIFVKTLTGKTTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLRGG
MQIFVKTLTGKTTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLRGGMQIFVKTLTGKTTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTLS
DYNIQKESTLHLVLRRLRGGMQIFVKTLTGKTTITLDVEPSVTTKKVKQEDRRTFLTTVSKKSPPCACSWV

>sp|O35566|CD151-MOUSE CD151 antigen OS=Mus musculus OX=10090 GN=Cd151 PE=1 SV=2
MGEFNEKKATCGTVCLKYLFTYNCFFWLAGLAVMAVGIWTLALKSDYISLLASSTYLATAYILVAVGVVMTGVLGCCATFKERRNLLRLYFILLIIIFLLEIIAGILAYVYYQQLNTELKENLKDTMVKR
YHQSGHEGVSSAVDKLQQEFHCCGSNNSQDWQDSEWIRSGEADSRVVPDSCCKTMVAGCGKRHDASNIYKVEGGCITKLETFIQEHLRVIGAVGIGIACVQVFGMIFTCCLYRSLKLEHY

>sp|P17742|PPIA-MOUSE Peptidyl-prolyl cis-trans isomerase A OS=Mus musculus OX=10090 GN=Ppia PE=1 SV=2
MVNPTVFFDITADDEPLGRVSVFELFADKVPKTAENFRALSTGEKFGYKGSFHRIPGFMCQGGDFTRHNGTGGRSIYGEKFEDEFILKHTGPGILSMANAGPNTNGSQFFICTAKTEWLDGKHVVFGKVK
EGMNIVEAMERFGSRNGKTSKTIISDCGQL

>sp|Q9R0P5|DEST-MOUSE Destrin OS=Mus musculus OX=10090 GN=Dstn PE=1 SV=3
MASGVQVADEVCRIFYDMKVRKCSSTPEEIKRKKAVIFCLSDKCKIVVEEGKEILVGDVGATITDPFKHFVGMLEPKDKCRYALYDASFETKESRKEELMFFLWAFEPQAPLKSMMIYASSKDAIKKKFPGIKH
EYQANGPEDLNRTCIAEKLGGSLIVAFEGSPV

>sp|P35278|RAB5C-MOUSE Ras-related protein Rab-5C OS=Mus musculus OX=10090 GN=Rab5c PE=1 SV=2
MAGRGAARPNGPAAGNKICQFKLVLLGESAVGKSSLVLRVFKGQFHEYQESTIGAAFLTQTVCDDTTVKFEIWDTAGQERYHSLAPMYRGAQAIVVYDITNTDTFARAKNWKELQRQASPNIVIALAG
NKADLASKRAVEFQEAQAYADDNSLLFMETSAKTAMNVNEIFMAIAKKLKNEPQNAAGAPGRTRGVLDLQESNPASRSQCCSN

>tr|Q3UFR4|Q3UFR4-MOUSE Amino acid transporter OS=Mus musculus OX=10090 GN=Slc1a5 PE=2 SV=1
MAVDPPKADPKGVVAVDSTANGGALGSREDQSAKAGCCGSRDRVRRIRANLLVLLTVAAVVAVGVLGLGVSAAAGDALGPARTAFAPFGELLLRLLKMIILPLVVC SLIGGAASLDPSALGRVGA
WAL LFFLVTTLLASALGVGLALALKPGAAVTAITSINDSVVDPARSAPTKEVLDSFLDLVRNIFPSNLVSAAFRSFATSYPKDNSCKIPQSCIQREINSTMVQLLCEVEGMNIGLVVFAIVFGVALRKLGP
EG ELLIRFFNSFN DATMVLVSWIMWYAPV GILFLVASKIVEMKDVRLFISLGKYLCLLGHAIHGLLVPLIYFLFTRKNPYRFLWIGIMTPLATAFGTSSSATPLPLMMKCVVEKNGVAKHISRFLPIGATV

NMGG AALFQCVA AVFIAQLNGVSLDFVKIITILVTATASSVGAAGIPAGGVLT LAIILEAVSLPVKDISLILAVDWLVDRSCTVLNVEGDAFGAGLLQSYVDR TKMPSSPEL IQVKNEVSLNPLPLATEEGN
PLLKQYQGPTGDSSATFEKESVM

>sp|P99024|TBB5-MOUSE Tubulin beta-5 chain OS=Mus musculus OX=10090 GN=Tubb5 PE=1 SV=1
MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGSDLQLDRISVYYNEATGGKYVPRAILVDLEPGTMDSVRS GPFQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESCDCLQGF
QLTHSLGGGTGSGMGTLLISKIREEYPDRIMNTFSVVPSPKVS DTVVEPYNATLSVHQLVENTDETYCIDNEALYD ICFR TLKLTPTPTYGDLNHLVSATMSGVTTCLRFPGQLNADLRK LAVNMVFPRLHFF
MPGFAPLTSRGSQQYRALTVPELTQQVFDAKNMAACDPRHGRYLTVAAVFRGRMSMKEVDEQMLNVQNKNSSYFVEWIPNNVKTAVCDIPPRGLKMAVTFIGNSTAIQELFKRISEQFTAMFRRKAFLHWYT
GEGMDEMEFTEAESNMNDLVSEYQQYQDATAEEEEEDFGEEAEAAA

>sp|P51150|RAB7A-MOUSE Ras-related protein Rab-7a OS=Mus musculus OX=10090 GN=Rab7a PE=1 SV=2
MTRSRKKVLLKVIILGDSGVGKTSMLNQYVNNKFSNQYKATIGADFLTKEVMVDDR LVMTQIWDTAGQERFQSLGVAFYRGADCCVLVFDV TAPNTFKTLD SWRDEF LIQASPRDPENFPFVVLGNKIDLENRQ
VATKRAQAWCYSKNNIPYFETS AKEAINVEQAFQTIARNALKQETEVELYNEFPEPIKLDKNDRAKASAESCS

>sp|O08992|SDCB1-MOUSE Syntenin-1 OS=Mus musculus OX=10090 GN=Sdcbp PE=1 SV=1
MSLYPSLEDLKVDKVIQAQTAYSANPASQAFVLVDASAALPPDGNLYPKLYPELSQYMGLSLNEAEICESMPPMVGAPAQGQLVARPSSVNYMVAVPTGN DAGIRRAEIKQGIREVILCKDQDGKIGLRLKSI
DNGIFVQLVQANS PASLVGLRFQDQVLQINGENCAGWSSDKAHKVLKQAFGEKITMTIRDRPFERTVTMHKDS SGHVGFIFKSGKITSIVKDS SAARNGLLTDH HICEINGQNVIGLKD AQIADILSTAGTVV
TITIMPTFIFEHIIKRMAPSIMKSLMDHTIPEV

>tr|B2RRX1|B2RRX1-MOUSE Actin, beta OS=Mus musculus OX=10090 GN=Actb PE=2 SV=1
MDDIIAALVVDNGSGMCKAGFAGDDAPRAVFP SIVGRPRHQGMVGMGQKDSYVGDEAQSKRGILTLYPIEHGIVTNWDDMEKIWHHTFYNELRVAP EHPVLLTEAPLNPKANREKMTQIMFETFNTPAMY
VAIQAVLSLYASGR TTGIVMDSGDGVTHTVPIYEGYALPHAILRLDLAGRDLDYLMKILTERGYSFTTTAEREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPDGQVITIGNERFRCP EALFQPSF
LGMESCGIHETT FNSIMKCDVDIRKDLYANTVLSGGTTMYPGIADRMQKEITALAPSTMKIKI IAPPERKYSVWIGGSILASLSTFQQMWISKQ EYDESGPSIVHRKCF

>sp|P61089|UBE2N-MOUSE Ubiquitin-conjugating enzyme E2 N OS=Mus musculus OX=10090 GN=Ube2n PE=1 SV=1
MAGLPRRIKETQRL LAEPVPGIKAE PDES NARYFHVVIAGPQDS PFEGGTFKLELFLPEEY PMAAPKVRFM TKIYHPNVDKLGRICLDILKDKWSPALQIRTVLLSIQALLSAPNPDDPLANDVAEQWKTNE
AQAIETARAWTRLYAMNNI

>sp|P63001|RAC1-MOUSE Ras-related C3 botulinum toxin substrate 1 OS=Mus musculus OX=10090 GN=Rac1 PE=1 SV=1
MQAIKCVVVDGAVGKTCLLISYTTNAFPGEYIPTVFDNYSANVMVDGKPVNLGLWDTAGQEDYDRLRPLSYPTDVF LIFCFLVSPASFENVR AKWYPEVRHHC PNTPIILVGT KLDLRDDKDTIEKLKEKK
LTPITYPQGLAMAKEIGAVKYLECSALTQRGLKTVFDEAIRAVLCPPPVKRKRKCLLL

>sp|P61205|ARF3-MOUSE ADP-ribosylation factor 3 OS=Mus musculus OX=10090 GN=Arf3 PE=2 SV=2
MGNIFGNLLKSLIGKKEMRILMVG L DAAGKTTILYK LKLG EIVTTIPTIGFNVETVEYKNISFTVWDVGGQDKIRPLWRHYFQNTQGLIFVVD S NDRERVNEAREELMRMLAEDEL RDAVLLV FANKQDLPNA
MNAAEITDKLGLHS LRHRNWIYI QATCATSGDGLYEGLDWLANQLKNKK

>sp|P62331|ARF6-MOUSE ADP-ribosylation factor 6 OS=Mus musculus OX=10090 GN=Arf6 PE=1 SV=2
MGKVL SKIFGNKEMRILMLGLDAAGKTTILYK LKLG QS VTTIPTVGFNVETV TYKNVKFNVDVGGQDKIRPLWRHYTGTQGLIFVVD CADRDRIDEARQELHRI INDRMRDAI ILIFANKQDLPDAMKPH
EIQEKLGLTRIRDRNWIYVQPSCATSGDGLYEGLTWLTSNYKS

>sp|P17182|ENO1-MOUSE Alpha-enolase OS=Mus musculus OX=10090 GN=Eno1 PE=1 SV=3
MSILRIHAREIFDSRGNPTVEVDLYTAKGLFRAAVPSGASTGIYEALERDNDKTRFMGKGV SQAVEHINKTIAPALVSKKVNVEQEKIDKLM IEMDGTENKSKFGANAILGVSLAVCKAGAVEKGVPLYRH
IADLAGNPEVILPVP AFNVINGGSHAGNKLAMQEFMILPVGASS FREAMRIGAEVYHNLKNVIKEKYGKD ATNVDGEGGFAPNILENKEALELLKTAIAKAGYTDQVVI GMDVAASEFYRS GKYDLDFKSPDD
PSRYITPDQLADLYKSFVQNYPVVSIEDPFDQDDWGAWQKFTASAGIQVVGDDLTVTNPKRIAKAASEKSCNCLLLKVNQIGSVTESLQACKLAQSNGWGMVSHRSGETEDTFIADLVVGLCTGQIKTGAPC
RSERLAKYNQILRIEELGSKAKFAGRSFRNPLAK

>sp|P40240|CD9-MOUSE CD9 antigen OS=Mus musculus OX=10090 GN=Cd9 PE=1 SV=2
MPVKGGSKCIKYLFLGFNFIFWLAGI AVLAI GLWLRFD SQTKSIFEQENNHSSFYTGVIILIGAGALMMLVGF LGGCGAVQESQCMLGLFFGFLLVIFAIEIAAAVWGYTHKDEVIKELQEFYKDTYQKLRSK
DEPQRET LKAIH MALDCCGIAGPLEQFISDTCPKKQLLESFQVKPCPEAISEVFNNKFHIIIGAVGIGIAVVMIFGMIFSMILCCAIRRSREM

>sp|Q9Z127|LAT1-MOUSE Large neutral amino acids transporter small subunit 1 OS=Mus musculus OX=10090 GN=Slc7a5 PE=1 SV=2
MAVAGAKRRAVATPAAAAAEEERQAREKMLEARRGDGADPEGEVTLQRNITLLNGVAIIVGTIIGSGIFVTPPTGVLKEAGSPGLSLVWVAVCGVFSIVGALCYAELGTTISKSGGDYAYMLEVYGS LPAFLK
LWIELLIIRPSSQYIVALVFATYLLKPVFPPTCPVPEEA AKLVACL CVLLLTAVNCYSVKAATRVDQAFAAAKLLALALIILLGFIQMGKDMGQGDASN LQQKLSFEGTNLDVGNIVLALYSGLFAYGGWNYLN
FVTEEMINPYRNPLAIIISLP I VTLVYVLTNLAYFTTLSTNQMLTSEAVAVDFGNYHLGVMSWII PVFVGLSCFGSVNGSLFTSSRLFFVGSREGHLPSVLSMIHPQLLTPVPSLVFTC IMTLMYAFSRDIF
SIINFFSFFNWLCVALAII GMMWLRFKKPELERPIKVN LALPVFFILACLFLIAVSEFWKTPMECGIGFAIILSGLPVYFFGVVWKNKPKWILQAI FSVTVLCQKLMQVVPQET

>sp|P16858|G3P-MOUSE Glyceraldehyde-3-phosphate dehydrogenase OS=Mus musculus OX=10090 GN=Gapdh PE=1 SV=2
MVKVGVNGFGRIGRLVTRAAICSGKVEIVAINDPFIDLNYMVYMFQYDSTHGKFN GTVKAENGLVINGKPITIFQERDPTNIKWGEAGA EYVVESTGVFTTMEKAGAH LKGGAKRVIISAPSADAPMFVMGV
NHEKYDNSLKIVSNASCTTNCLAPLAKVIHDNFGIVEGLMTTVHAI TATQKTVDGPSGKLWRDGRGAAQNIIPASTGA AKAVGKVIPELNGKLTGMAFRVPTPNVSVVDLTCRLEKPAKYDDIKKVVQASEG
PLKGILGYTEDQVVS CDFNSNSHSTFDAGAGIALNDNFVKLISWYDNEYGYSNRVVDLMAYMASKE

>sp|P68040|RACK1-MOUSE Receptor of activated protein C kinase 1 OS=Mus musculus OX=10090 GN=Rack1 PE=1 SV=3
MTEQMTLRGTLKGHNWVTQIATTPQFPDMILSASRDKTIIMWKLTRDETNYGIPQRALRGHSHFVSDVVISSDGFALSGSWDGLRLWDLTTGTTTRRFVGH TKDVLVSAFSSDN RQIVSGSRDKTIKLWN
TLGVCKYTVQDESHSEWVSCVRFSPNSNPIIVSCGWDKLVKVVNLANCKLKTNHIGHTGYLNTVTVSPDGSLCASGGKDGQAMLWDLNEGKHL YTLDDGGDIINALCFSPNRYWLCAATGPSIKIWDLEKII
VDELKQEVISTSSKA EPPQCTSLAWSADGQTLFAGYTDNLVRVWQVTIGTR

>sp|P41731|CD63-MOUSE CD63 antigen OS=Mus musculus OX=10090 GN=Cd63 PE=1 SV=2
MAVEGGMKCVKFLLYVLLLAFCACAVGLIAIGVAVQVVLKQAI THETTAGSLLPVV IIAVGAF LFLVAFVGC CGACKENYCLMITFAIFLSLIMLVEVAVAIAGYVFRDQVKSEFNKSFQQMQNYLKDNKTA
TILDKLQKENNCCGASNYTDWENIPGMAKDRVPDSCCINITVGC GND FKESTIHTQGCVETIAIWL RKNILLVAAAALGIAFVEVLGII FSCCLVK SIRS GYEV M

>sp|P16045|LEG1-MOUSE Galectin-1 OS=Mus musculus OX=10090 GN=Lgals1 PE=1 SV=3
MACGLVASNLNLKPG ECLKVRGEVASDAKSFVLNLGKDSNNLCLHFNPRFNAHGDANTIVCNTKEDGTWGT EHPA PPFQPGSITEVCITFDQADLTIKLPDGHEFKFPNRLNMEAINYMAADGDFKIKCVA
FE

>sp|P35762|CD81-MOUSE CD81 antigen OS=Mus musculus OX=10090 GN=Cd81 PE=1 SV=2
MGVEGCTKCIKYLFLVFN FVFWLAGGVILGVALWLRHDPQTSLLYLELGNK PAPT FYVGIYIILIAVGAVMMFVGF LGCYGAIQESQCLLGTFFTCLVILFACEVAAGI WGFVNKDQIAKDVKQFYDQALQQ
AVMDDDANNAKAVVKTFHETLNC CGSNALTTLT TILRNSLCPSGGNILTPLLQDCHQKIDELFSGKLYLIGIAAIVVAVIMIFEMILSMVLCGIRNSSVY

Supplementary Table S2: Functional enrichment data for 11 highly disordered host proteins focusing on gene ontology highlighting biological process

Protein ID	Biological process (Go term)	Count in network	Enrichment Strength	False discovery rate
Q9WVE8	<ol style="list-style-type: none"> Negative regulation of membrane tubulation (GO:1903526) Caveola Assembly (GO:0070836) Plasma membrane tubulation (GO:0097320) Early endosome to Golgi apparatus (GO:0034498) Lipid tube assembly (GO:0060988) 	<p>2 of 2</p> <p>3 of 4</p> <p>9 of 14</p> <p>4 of 8</p> <p>2 of 4</p>	<p>2.56</p> <p>2.44</p> <p>2.37</p> <p>2.26</p> <p>2.26</p>	<p>0.0048</p> <p>0.00014</p> <p>6.48e-15</p> <p>6.77e-06</p> <p>0.0106</p>
Q9D8B3	<ol style="list-style-type: none"> Viral budding via host ESCRT complex (GO:0039702) Viral budding from plasma membrane (GO:0046761) Multivesicular body-lysosome fusion (GO:0061763) Vesicle fusion with vacuole (GO:0051469) Protein transport to vacuole involved in ubiquitin-dependent (GO:0043328) 	<p>14 of 14</p> <p>13 of 13</p> <p>11 of 11</p> <p>11 of 11</p> <p>6 of 6</p>	<p>2.34</p> <p>2.34</p> <p>2.34</p> <p>2.34</p> <p>2.34</p>	<p>3.25e-23</p> <p>1.17e-21</p> <p>2.33e-18</p> <p>2.33e-18</p> <p>9.19e-10</p>
O54946	<ol style="list-style-type: none"> Positive regulation of aggrephagy (GO:1905337) Protein refolding(GO:0042026) Negative regulation of inclusion body assembly (GO:0090084) Telomerase holoenzyme complex assembly (GO:1905323) Protein insertion into mitochondrial outer membrane (GO:0045040) 	<p>3 of 3</p> <p>15 of 21</p> <p>6 of 11</p> <p>2 of 4</p> <p>2 of 4</p>	<p>2.51</p> <p>2.36</p> <p>2.24</p> <p>2.21</p> <p>2.21</p>	<p>0.00020</p> <p>1.27e-25</p> <p>7.57e-09</p> <p>0.0162</p> <p>0.0162</p>
Q62167	<ol style="list-style-type: none"> Viral translational termination-reinitiation (GO:0075525) Regulation of polysome binding (GO:1905696) NLRP1 inflammasome complex assembly (GO:1904784) Pyroptosome complex assembly (GO:1904270) Eukaryotic translation initiation factor 4F complex assembly (GO:0097010) 	<p>5 of 5</p> <p>2 of 2</p> <p>2 of 2</p> <p>2 of 2</p> <p>2 of 2</p>	<p>1.82</p> <p>1.82</p> <p>1.82</p> <p>1.82</p> <p>1.82</p>	<p>1.02e-05</p> <p>0.0355</p> <p>0.0355</p> <p>0.0355</p> <p>0.0355</p>
Q91ZR2	<ol style="list-style-type: none"> Negative regulation of membrane tubulation (GO:1903526) Lipid tube assembly (GO:0060988) Cleavage furrow formation (GO:0036089) Positive regulation of neutrophil apoptotic process (GO:0033031) Positive regulation of clathrin-dependent endocytosis (GO:2000370) 	<p>2 of 2</p> <p>2 of 4</p> <p>3 of 7</p> <p>2 of 5</p> <p>2 of 6</p>	<p>2.7</p> <p>2.39</p> <p>2.33</p> <p>2.3</p> <p>2.22</p>	<p>0.0038</p> <p>0.0084</p> <p>0.00023</p> <p>0.0111</p> <p>0.0138</p>
Q61187	<ol style="list-style-type: none"> Viral budding (GO:0046755) Multivesicular body organization (GO:0036257) Viral budding via host ESCRT complex (GO:0039702) Multivesicular body assembly (GO:0036258) Viral budding from plasma membrane (GO:0046761) 	<p>20 of 20</p> <p>15 of 15</p> <p>14 of 14</p> <p>14 of 14</p> <p>13 of 13</p>	<p>1.97</p> <p>1.97</p> <p>1.97</p> <p>1.97</p> <p>1.97</p>	<p>1.07e-26</p> <p>6.35e-20</p> <p>1.45e-18</p> <p>1.45e-18</p> <p>3.11e-17</p>
P06837	<ol style="list-style-type: none"> Neurofilament bundle assembly (GO:0033693) Trans-synaptic signaling by neuropeptide, modulating synaptic transmission (GO:0099551) 	<p>3 of 3</p> <p>2 of 2</p>	<p>2.18</p> <p>2.18</p>	<p>0.00020</p> <p>0.0059</p>

	<ul style="list-style-type: none"> 3. Taste bud development (GO:0061193) 4. Regulation of norepinephrine uptake (GO:0051621) 5. Regulation of retinal cell programmed cell death (GO:0046668) 	<ul style="list-style-type: none"> 2 of 2 2 of 2 4 of 6 	<ul style="list-style-type: none"> 2.18 2.18 2.0 	<ul style="list-style-type: none"> 0.0059 0.0059 1.80e-05
P26040	<ul style="list-style-type: none"> 1. Membrane to membrane docking (GO:0022614) 2. Paranodal junction maintenance (GO:1990227) 3. Terminal web assembly (GO:1902896) 4. Beta selection (GO:0043366) 5. Positive regulation of protein processing in phagocytic vesicles (GO:1903923) 	<ul style="list-style-type: none"> 5 of 5 3 of 3 3 of 3 3 of 3 2 of 2 	<ul style="list-style-type: none"> 1.89 1.89 1.89 1.89 1.89 	<ul style="list-style-type: none"> 2.31e-06 0.00070 0.00070 0.00070 0.0117
Q91YD9	<ul style="list-style-type: none"> 1. Positive regulation of platelet-derived growth factor receptor-beta signaling pathway (GO:2000588) 2. Formin-nucleated actin cable assembly (GO:0070649) 3. Meiotic chromosome movement towards spindle pole (GO:0016344) 4. Positive regulation of barbed-end actin filament capping (GO:2000814) 5. Positive regulation of protein processing in phagocytic vesicle (GO:1903923) 	<ul style="list-style-type: none"> 3 of 3 3 of 3 3 of 3 2 of 2 2 of 2 	<ul style="list-style-type: none"> 1.97 1.97 1.97 1.97 1.97 	<ul style="list-style-type: none"> 0.00069 0.00069 0.00069 0.0141 0.0141
Q8R0J7	<ul style="list-style-type: none"> 1. Viral budding via host ESCRT complex (GO:0039702) 2. Viral budding from plasma membrane (GO:0046761) 3. Multivesicular body-lysosome fusion (GO:0061763) 4. Vesicle fusion with vacuole (GO:0051469) 5. Ubiquitin-independent protein catabolic process via the multivesicular body sorting pathway (GO:0090611) 	<ul style="list-style-type: none"> 14 of 14 13 of 13 11 of 11 11 of 11 5 of 5 	<ul style="list-style-type: none"> 2.72 2.72 2.72 2.72 2.72 	<ul style="list-style-type: none"> 2.64e-29 3.38e-27 6.86e-23 6.86e-23 6.21e-10
P63037	<ul style="list-style-type: none"> 1. Positive regulation of aggrephagy (GO:1905337) 2. Negative regulation of inclusion body assembly (GO:0090084) 3. Protein refolding (GO:0042026) 4. Positive regulation of establishment of protein localization to telomere (GO:1904851) 5. Telomerase holoenzyme complex assembly (GO:1905323) 	<ul style="list-style-type: none"> 3 of 3 9 of 11 17 of 21 8 of 10 3 of 4 	<ul style="list-style-type: none"> 2.26 2.17 2.16 2.16 2.13 	<ul style="list-style-type: none"> 0.00047 5.83e-13 8.51e-26 2.62e-11 0.00075

Supplementary Table S3: Functional enrichment data for 11 highly disordered host proteins focusing on their individual gene ontology highlighting Molecular Function

Protein ID & (Name)	Molecular Function (Go term)	Count in network	Enrichment Strength	False discovery rate
Q9WVE8 Pacsin2	<ol style="list-style-type: none"> 1. D2 dopamine receptor binding (GO:0031749) 2. inositol-1,4,5-trisphosphate 5-phosphatase activity (GO:0052658) 3. Nitric-oxide synthase binding (GO:0050998) 4. Dopamine receptor binding (GO:0050780) 5. G protein activity (GO:0003925) 	2 of 6 2 of 7 4 of 22 3 of 25 3 of 39	2.08 2.02 1.82 1.64 1.45	0.0304 0.0368 0.00022 0.0111
Q9D8B3 (Chmp4b)	<ol style="list-style-type: none"> 1. MIT domain binding (GO:0090541) 2. Structural constituent of eye lens (GO:0005212) 3. Protein tag (GO:0031386) 4. Structural constituent of cytoskeleton (GO:0005200) 5. Ubiquitin binding (GO:0043130) 	3 of 4 14 of 25 4 of 14 14 of 77 9 of 97	2.21 2.09 1.8 1.6 1.31	0.0012 4.36e-20 0.00048 8.50e-15 8.22e-07
O54946 (Dnajb6)	<ol style="list-style-type: none"> 1. CTP binding (GO:0002135) 2. ATP-dependent protein disaggregase activity (GO:0140545) 3. C3HC4-type RING finger domain binding (GO:0055131) 4. Sulfonylurea receptor binding (GO:0017098) 5. ATP-dependent protein folding chaperone (GO:0140662) 	2 of 2 3 of 4 4 of 6 2 of 3 18 of 28	2.51 2.38 2.33 2.33 2.31	0.0059 0.00012 2.53e-06 0.0093 2.62e-31
Q62167 (Ddx3x)	<ol style="list-style-type: none"> 1. Cysteine-type endopeptidase activator activity (GO:0140608) 2. mRNA cap binding (GO:0098808) 3. RNA strand-exchange activity (GO:0034057) 4. U5 snRNA binding (GO:0030623) 5. CTP binding (GO:0002135) 	2 of 2 2 of 2 2 of 2 2 of 2 2 of 2	1.82 1.82 1.82 1.82 1.82	0.0490 0.0490 0.0490 0.0490 0.0490
Q91ZR2 (Snx18)	<ol style="list-style-type: none"> 1. 1-phosphatidylinositol-4-phosphate 3-kinase activity (GO:0035005) 2. phosphatidylinositol-3,4-bisphosphate 5-kinase activity (GO:0052812) 3. phosphatidylinositol-4,5-bisphosphate 3-kinase activity (GO:0046934) 4. 1-phosphatidylinositol-3-kinase activity (GO:0016303) 5. D2 dopamine receptor binding (GO:0031749) 	7 of 7 5 of 6 5 of 6 7 of 10 2 of 6	2.7 2.62 2.62 2.54 2.22	4.46e-13 6.48e-09 6.48e-09 1.82e-12 0.0245
Q61187 (Tsg101)	<ol style="list-style-type: none"> 1. L-lactate dehydrogenase activity (GO:0004459) 2. Atg8-specific peptidase activity (GO:0019786) 3. CTP binding (GO:0002135) 4. MIT domain binding (GO:0090541) 5. Glyceraldehyde-3-phosphate dehydrogenase (NAD+) (phosphorylating) activity (GO:0004365) 	4 of 4 2 of 2 2 of 2 3 of 4 3 of 4	1.97 1.97 1.97 1.85 1.85	0.00012 0.0399 0.0399 0.0040 0.0040
P06837 (Gap43)	<ol style="list-style-type: none"> 1. Calcium ion binding involved in regulation of presynaptic cytosolic calcium ion concentration (GO:0099534) 2. Neurotrophin TRKB receptor binding (GO:0005169) 	2 of 2 2 of 2	2.18 2.18	0.0245 0.0245

	<ul style="list-style-type: none"> 3. Nerve growth factor receptor binding (GO:0005163) 4. Ganglioside GT1b binding (GO:1905576) 5. Structural constituent of postsynaptic intermediate filament cytoskeleton(GO:0099184) 	<ul style="list-style-type: none"> 4 of 5 2 of 3 2 of 3 	<ul style="list-style-type: none"> 2.08 2.0 2.0 	<ul style="list-style-type: none"> 8.41e-05 0.0354 0.0345
P26040 (Ezr)	<ul style="list-style-type: none"> 1. Rho GDP-dissociation inhibitor activity (GO:0005094) 2. Cytoskeletal protein-membrane anchor activity (GO:0106006) 3. Rho-dependent protein serine/threonine kinase activity (GO:0072518) 4. Histone kinase activity (H3-T6 specific) (GO:0035403) 5. CTP binding (GO:0002135) 	<ul style="list-style-type: none"> 3 of 3 2 of 2 2 of 2 2 of 2 2 of 2 	<ul style="list-style-type: none"> 1.89 1.89 1.89 1.89 1.89 	<ul style="list-style-type: none"> 0.0022 0.0391 0.0391 0.0391 0.0391
Q91YD9 (WasL)	<ul style="list-style-type: none"> 1. EH domain binding (GO:1990175) 2. Rho-dependent protein serine/threonine kinase activity (GO:0072518) 3. GBD domain binding (GO:0032427) 4. Profilin binding (GO:0005522) 5. Arp2/3 complex binding (GO:0071933) 	<ul style="list-style-type: none"> 2 of 2 2 of 2 2 of 2 8 of 12 9 of 17 	<ul style="list-style-type: none"> 1.97 1.97 1.97 1.8 1.7 	<ul style="list-style-type: none"> 0.0336 0.0336 0.0336 2.36e-09 6.28e-10
Q8R0J7 (Vps37b)	<ul style="list-style-type: none"> 1. MIT domain binding (GO:0090541) 2. Protein tag (GO:0031386) 3. Ubiquitin binding (GO:0043130) 4. Calcium-dependent protein binding (GO:0048306) 5. Ubiquitin-like protein ligase binding (GO:0044389) 	<ul style="list-style-type: none"> 3 of 4 4 of 14 10 of 97 4 of 94 8 of 333 	<ul style="list-style-type: none"> 2.59 2.17 1.73 1.34 1.1 	<ul style="list-style-type: none"> 0.00019 4.31e-05 3.22e-11 0.0177 0.00019
P63037	<ul style="list-style-type: none"> 1. CTP binding (GO:0002135) 2. ATP-dependent protein folding chaperone (GO:0140662) 3. ATP-dependent protein disaggregase activity (GO:0140545) 4. dATP binding (GO:0032564) 5. Adenyl-nucleotide exchange factor activity (GO:0000774) 	<ul style="list-style-type: none"> 2 of 2 24 of 28 3 of 4 3 of 4 8 of 11 	<ul style="list-style-type: none"> 2.26 2.19 2.13 2.13 2.12 	<ul style="list-style-type: none"> 0.0166 2.00e-38 0.00067 0.00067 1.13e-11

Supplementary Table S4: Functional enrichment data for 11 highly disordered host proteins focusing on their individual gene ontology highlighting Cellular Component

Protein ID & (Name)	Cellular Component (Go term)	Count in network	Enrichment Strength	False discovery rate
Q9WVE8 Pacsin2	1. Ciliary pocket membrane (GO:0020018)	2 of 3	2.39	0.0018
	2. Caveolar macromolecular signaling complex (GO:0002095)	2 of 3	2.39	0.0018
	3. Extrinsic component of synaptic vesicle membrane (GO:0098850)	6 of 10	2.34	2.63e-10
	4. Myb complex (GO:0031523)	2 of 4	2.26	0.0025
	5. Presynaptic endocytic zone (GO:0098833)	5 of 13	2.15	6.35e-08
Q9D8B3 (Chmp4b)	1. ESCRT complex (GO:0036452)	26 of 26	2.34	3.59e-45
	2. Amphisome membrane (GO:1904930)	11 of 11	2.34	7.70e-19
	3. ESCRT I complex (GO:0000813)	11 of 11	2.34	7.70e-19
	4. ESCRT III complex (GO:0000815)	10 of 10	2.34	3.42e-17
	5. SCRT II complex (GO:0000814)	3 of 3	2.34	6.54e-05
O54946 (Dnajb6)	1. Chaperonin-containing T-complex (GO:0005832)	4 of 10	2.11	5.86e-06
	2. Zona pellucida receptor complex (GO:0002199)	4 of 11	2.07	7.46e-06
	3. PAM complex, Tim23 associated import motor (GO:0001405)	2 of 6	2.03	0.0090
	4. Chaperone complex (GO:0101031)	10 of 36	1.95	1.59e-13
	5. Endoplasmic reticulum chaperone complex (GO:0034663)	3 of 12	1.9	0.00054
Q62167 (Ddx3x)	1. Inflammasome complex (GO:0061702)	21 of 21	1.82	1.04e-25
	2. Eukaryotic translation initiation factor 3 complex (GO:0005852)	16 of 16	1.82	1.62e-19
	3. Eukaryotic 48S preinitiation complex (GO:0033290)	15 of 15	1.82	2.60e-18
	4. NLRP3 inflammasome complex (GO:0072559)	8 of 8	1.82	1.35e-09
	5. PAF inflammasome complex (GO:0072557)	8 of 8	1.82	1.35e-09
Q91ZR2 (Snx18)	1. Retromer, cargo-selective complex (GO:0030906)	3 of 3	2.7	1.19e-05
	2. tubular endosome (O:0097422)	4 of 5	2.6	2.60e-07
	3. Phosphatidylinositol 3-kinase complex, class IA (GO:0005943)	4 of 6	2.52	4.04e-07
	4. Phosphatidylinositol 3-kinase complex, class IB (GO:0005944)	2 of 4	2.39	0.0023
	5. Retromer complex (GO:0030904)	8 of 21	2.28	1.74e-13
Q61187 (Tsg101)	1. ESCRT complex (GO:0036452)	26 of 26	1.97	7.72e-36
	2. Amphisome membrane (GO:1904930)	11 of 11	1.97	4.24e-15
	3. ESCRT I complex (GO:0000813)	11 of 11	1.97	4.24e-15
	4. ESCRT III complex (GO:0000815)	10 of 10	1.97	9.96e-14
	5. Retromer, cargo-selective complex (GO:0030906)	3 of 3	1.97	0.00033

P06837 (Gap43)	<ol style="list-style-type: none"> 1. Presynaptic intermediate filament cytoskeleton (GO:0099182) 2. Postsynaptic intermediate filament cytoskeleton (GO:0099160) 3. Dendritic branch (GO:0044307) 4. Neurofibrillary tangle (GO:0097418) 5. Dendritic filopodium (GO:1902737) 	<p>2 of 2 3 of 4 4 of 6 3 of 5 3 of 6</p>	<p>2.18 2.05 2.0 1.96 1.88</p>	<p>0.0037 0.00021 1.04e-05 0.00033 0.00045</p>
P26040 (Ezr)	<ol style="list-style-type: none"> 1. Stereocilium base (GO:0120044) 2. HSP90-CDC37 chaperone complex (GO:1990565) 3. Upper tip-link density (GO:1990435) 4. Septate junction (GO:0005918) 5. Schwann cell microvillus (GO:0097454) 	<p>5 of 5 2 of 2 2 of 2 2 of 2 2 of 2</p>	<p>1.89 1.89 1.89 1.89 1.71</p>	<p>1.38e-06 0.0105 0.0105 0.0105 0.0162</p>
Q91YD9 (WasL)	<ol style="list-style-type: none"> 1. Arp2/3 protein complex (GO:0005885) 2. Actin cap (GO:0030478) 3. Peripheral region of growth cone (GO:0090725) 4. Podosome core (GO:0061825) 5. Tubulobulbar complex (GO:0036284) 	<p>9 of 9 4 of 4 3 of 3 3 of 3 3 of 3</p>	<p>1.97 1.97 1.97 1.97 1.97</p>	<p>2.05e-12 1.56e-05 0.00036 0.00036 0.00036</p>
Q8R0J7 (Vps37b)	<ol style="list-style-type: none"> 1. ESCRT complex (GO:0036452) 2. Amphisome membrane (GO:1904930) 3. ESCRT I complex (GO:0000813) 4. ESCRT III complex (GO:0000815) 5. ESCRT II complex (GO:0000814) 	<p>26 of 26 11 of 11 11 of 11 10 of 10 3 of 3</p>	<p>2.72 2.72 2.72 2.72 2.72</p>	<p>9.78e-58 3.41e-23 3.41e-23 3.97e-21 4.55e-06</p>
P63037	<ol style="list-style-type: none"> 1. HSP90-CDC37 chaperone complex (GO:1990565) 2. Chaperonin-containing T-complex (GO:0005832) 3. Zona pellucida receptor complex (GO:0002199) 4. Chaperone complex (GO:0101031) 5. PAM complex, Tim23 associated import motor (GO:0001405) 	<p>2 of 2 8 of 10 8 of 11 20 of 36 2 of 6</p>	<p>2.26 2.16 2.12 2.0 1.78</p>	<p>0.0097 1.44e-11 1.98e-11 1.75e-28 0.0313</p>

Supplementary Table S5. Multifactorial analysis of intrinsic disorder predisposition of mouse proteins entrapped in RABV particles

Sequence ID	Gene name	PONDR VLXT, %	PONDR VLXT, score	PONDR VSL2, %	PONDR VSL2, score	PONDR VL3, %	PONDR VL3, score	IUPred_Short, %	IUPred_Short, score	IUPred_Long, %	IUPred_Long, score	PONDR FIT, %	PONDR FIT, score	MDP, %	MDP, score	dCDF	dCH	Node degree	PLLPS
P06837	Gap43	90.75	0.8237	100	0.97094	100	0.92615	98.68	0.7291	99.56	0.90544	100	0.8702	100	0.87092	-0.4218	0.22313	3	0.9949
O54946	Dnajb6	50.68	0.50954	96.44	0.82287	89.59	0.73547	43.29	0.50606	52.33	0.59267	76.16	0.68979	66.58	0.64273	-0.1063	0.04155	3	0.9937
Q9DB34	Chmp2a	91.89	0.80524	84.68	0.7787	89.19	0.75691	26.58	0.43193	43.69	0.47228	91.89	0.78788	87.84	0.67216	-0.4015	-0.0662	9	0.4463
Q8R0J7	Vps37b	75.09	0.6758	80.35	0.71006	76.84	0.68684	35.09	0.42488	46.67	0.50847	50.18	0.55174	64.56	0.59297	-0.272	-0.1387	9	0.7062
Q91YD9	Wasl	60.68	0.59373	70.46	0.67398	69.06	0.65377	62.08	0.50558	72.46	0.66646	59.28	0.53035	64.47	0.60398	-0.1877	3.6E-05	8	0.9796
P63024	Vamp3	47.57	0.44546	66.02	0.49674	49.51	0.51802	24.27	0.31274	15.53	0.23886	44.66	0.52867	19.42	0.33708	-0.0471	-0.233	8	0.2109
Q9WVE8	Pacsin2	41.36	0.43913	62.14	0.62508	55.97	0.5258	34.16	0.40153	44.44	0.49655	48.97	0.47636	53.5	0.49408	-0.0395	0.09151	3	0.7374
P63037	Dnajal1	28.72	0.34943	61.46	0.54464	63.73	0.55642	22.42	0.33609	20.91	0.38103	27.96	0.35151	34.76	0.41985	0.05144	-0.0354	5	0.3089
P26040	Ezr	55.8	0.49604	56.14	0.59049	51.02	0.47935	32.94	0.34698	44.54	0.42032	51.88	0.48866	51.02	0.47031	-0.0977	0.05128	16	0.5557
P63101	Ywhaz	44.9	0.42135	53.88	0.50166	50.61	0.44431	10.2	0.29499	12.65	0.33685	27.76	0.38217	13.88	0.32284	-0.0212	-0.0119	13	0.1834
Q61187	Tsg101	51.15	0.49621	53.45	0.53086	49.62	0.44529	12.28	0.26785	30.43	0.33599	47.83	0.43953	48.85	0.41929	-0.0936	-0.1241	19	0.5314
P11499	Hsp90ab1	31.63	0.36826	45.17	0.49574	37.02	0.44923	15.88	0.2935	22.24	0.34964	21.55	0.32532	24.72	0.38028	0.03085	-0.0006	25	0.3785
Q91ZR2	Snx18	43	0.42843	44.95	0.52868	31.76	0.43592	28.01	0.35376	33.06	0.40678	37.13	0.40634	35.34	0.42665	-0.0301	-0.0815	1	0.763
Q9WU78	Pdcd6ip	48.33	0.45406	44.53	0.51719	39.47	0.44568	16.11	0.29251	20.14	0.36149	26.58	0.35033	30.72	0.40354	-0.0531	-0.1177	16	0.346
Q62167	Ddx3x	31.57	0.37903	40.63	0.5043	35.35	0.40918	24.17	0.3152	25.68	0.35973	33.38	0.38935	33.23	0.3928	0.01955	-0.0726	2	0.845
Q4VAE6	Rhoa	31.09	0.35982	39.9	0.41219	43.01	0.44401	16.06	0.28989	11.92	0.29392	22.8	0.29548	26.42	0.34922	0.0387	-0.1405	17	0.264
P63017	Hspa8	25.23	0.33332	38.7	0.45257	29.26	0.3437	10.06	0.30085	20.43	0.37374	21.05	0.28628	21.98	0.34841	0.06746	-0.1047	27	0.3235
Q9D1C8	Vps28	22.62	0.31164	38.01	0.41881	27.6	0.34358	9.5	0.25107	1.81	0.25115	13.12	0.2777	1.81	0.25173	0.08547	-0.1076	9	0.4616
P63168	Dynll1	19.1	0.23101	37.08	0.41573	31.46	0.31438	8.99	0.22919	0	0.16193	28.09	0.35668	24.72	0.28482	0.16282	-0.1259	7	0.1091
P10852	Slc3a2	24.14	0.28345	37.07	0.40321	25.29	0.32542	9.32	0.22888	7.22	0.22491	14.83	0.26242	12.55	0.28805	0.1131	-0.1816	3	0.2208
P60335	Pcbp1	46.35	0.46959	36.52	0.45513	16.01	0.34592	8.71	0.32671	15.17	0.3748	13.48	0.33537	7.3	0.32693	-0.0695	-0.2272	7	0.3965
P46467	Vps4b	31.76	0.35627	36.04	0.47074	25	0.38447	14.19	0.30692	20.5	0.37041	20.5	0.30462	19.37	0.36557	0.04241	-0.1004	10	0.5084
Q99J93	Ifitm2	22.22	0.26329	34.72	0.3316	22.22	0.24907	11.11	0.18773	0	0.12423	22.22	0.3174	5.56	0.20404	0.12956	-0.3834	1	0.1254
P63242	Eif5a	22.08	0.28374	33.77	0.41635	18.83	0.37768	8.44	0.30059	2.6	0.29006	16.88	0.31493	5.19	0.26761	0.11276	-0.1363	9	0.2982
P18760	Cfl1	24.7	0.29399	33.73	0.43418	29.52	0.44383	6.63	0.23865	0	0.22483	21.69	0.30263	5.42	0.24905	0.10466	-0.1315	16	0.2105
P0CG50	Ubc	34.47	0.35876	30.93	0.41033	19.07	0.36646	19.75	0.30588	15.94	0.35598	2.86	0.20281	0	0.27229	0.04093	-0.1113	18	0.1552
Q35566	Cd151	2.77	0.10503	27.67	0.26758	9.88	0.25232	5.53	0.1238	0	0.06807	11.46	0.22188	1.58	0.13106	0.28721	-0.3664	6	0.174
P17742	Ppia	11.59	0.22616	26.83	0.39369	10.37	0.28484	10.37	0.33042	2.44	0.31635	12.8	0.27073	0.61	0.25623	0.16995	-0.139	13	0.2871
Q9R0P5	Dstn	19.39	0.29191	26.67	0.37146	0	0.31259	6.06	0.20864	0	0.1693	14.55	0.26307	2.42	0.2174	0.10817	-0.1706	4	0.1597
P35278	Rab5c	17.13	0.26715	24.07	0.40612	23.61	0.27882	18.52	0.25911	18.52	0.30265	23.61	0.29055	18.52	0.25426	0.13292	-0.1584	5	0.2693
Q3UFR4	Slc1a5	28.47	0.2837	21.08	0.28862	16.76	0.28279	11.35	0.13422	4.68	0.11005	12.61	0.23475	16.22	0.22236	0.11061	-0.4538	5	0.2124
P99024	Tubb5	20.95	0.25416	18.92	0.35091	7.88	0.21994	10.36	0.27052	8.11	0.29566	7.88	0.2135	8.56	0.26745	0.14331	-0.1001	10	0.2479
P51150	Rab7	13.53	0.20495	18.36	0.34004	17.39	0.23029	4.83	0.21137	0	0.205	12.08	0.21336	5.31	0.19579	0.1912	-0.1475	17	0.1258
O08992	Sdcbp	23.41	0.30192	17.06	0.35682	10.37	0.2907	4.01	0.21475	0.67	0.24411	12.37	0.23968	1.67	0.22621	0.09531	-0.2542	12	0.1387
B2RRX1	Actb	28	0.32049	16.27	0.33595	0	0.2148	5.6	0.23147	2.67	0.25109	10.93	0.21446	1.33	0.22558	0.07841	-0.1696	24	0.288
P61089	Ube2n	38.16	0.37761	15.79	0.33684	3.95	0.24102	13.16	0.28606	6.58	0.26415	15.13	0.24233	2.63	0.25116	0.0241	-0.1733	2	0.1846
P63001	Rac1	15.62	0.19482	15.1	0.29621	7.81	0.21206	3.12	0.16615	0	0.16694	6.77	0.19189	1.04	0.16934	0.201	-0.2058	13	0.1137
P61205	Arf3	9.39	0.16719	14.92	0.29522	0	0.16731	3.87	0.14742	0	0.15249	9.39	0.20174	0.55	0.16067	0.22906	-0.1874	2	0.1064
P62331	Arf6	8.57	0.18214	14.86	0.29959	0	0.13135	4.57	0.17894	0	0.17107	12.57	0.20626	2.29	0.173	0.21403	-0.1285	15	0.0996
P17182	Eno1b	13.13	0.21537	14.52	0.33887	5.3	0.23471	2.3	0.21846	0.23	0.24289	5.76	0.18902	2.07	0.20077	0.18369	-0.1967	8	0.1539
P40240	Cd9	10.18	0.12461	14.16	0.24658	0	0.25687	1.33	0.08551	0	0.04249	11.95	0.24936	2.21	0.12476	0.26601	-0.4149	14	0.1103
Q9Z127	Slc7a5	11.13	0.12935	13.87	0.22891	7.62	0.21148	8.2	0.07664	4.3	0.05904	10.55	0.21084	8.98	0.15271	0.25943	-0.476	2	0.24
P16858	Gapdh	7.81	0.17668	12.01	0.31873	0	0.14148	4.2	0.22182	2.1	0.24409	7.21	0.18807	0.3	0.19157	0.21884	-0.226	25	0.1226
P68040	Rack1	5.99	0.1372	11.67	0.30795	0	0.12645	4.1	0.21255	0.63	0.21761	6.31	0.18839	2.52	0.17728	0.25839	-0.1827	13	0.1252
P41731	Cd63	2.52	0.06168	11.34	0.21189	0	0.26451	0.42	0.07787	0	0.03977	7.56	0.22148	1.26	0.10212	0.32679	-0.4907	14	0.1011
P16045	Lgals1	2.96	0.21176	7.41	0.33871	10.37	0.27574	12.59	0.26589	5.19	0.23595	9.63	0.21734	0	0.21161	0.18463	-0.1449	2	0.1439
P35762	Cd81	0.42	0.06865	5.93	0.19764	0	0.21627	0.42	0.05324	0	0.02717	9.75	0.1922	0	0.08982	0.31727	-0.4642	16	0.106

Supplementary Table S6: Localization of ELMs (Eukaryotic Linear Motifs) within the Droplet Promoting Regions, Aggregation Hot-spots and MoRFs of mouse Neuromodulin (UniProt ID: P06837).

Region Type	Region Range	ELM ID	Position
<u>Droplet Promoting Region</u>	<u>52-227</u>	CLV_C14_Caspase3-7	197-201
		DOC_USP7_MATH_1,	119-123 190-194 207-211
		DOC_WW_Pin1_4	169-174 139-144 93-98
		LIG_BIR_III_2	90-94 118-122
		LIG_PDZ_Class_3 LIG_TRAF6_MATH_1,	222-227 184-192
		LIG_WD40_WDR5_VDV_2,	58-64 63-66 95-99 96-99 130-137 131-137 132-137 133-137 154-161 155-161 215-222 218-222 219-222
		MOD_CDK_SPK_2 MOD_CDK_SPxxK_3	93-98 139-146
		MOD_CK1_1	86-92 128-134

			142-148 190-196
		MOD_GlcNHglycan	84-88 85-88 127-130 132-135 209-212
		MOD_GSK3_1	135-142 186-193
		MOD_PIKK_1	190-196
		MOD_Plk_2-3	107113
		MOD_ProDKin_1	169-175 139-145 93-99
		MOD_SUMO_for_1	152-155 97-100
		MOD_SUMO_rev_2	118-126 122-126 149-159 154-159 191-201 192-201 193-201 196-201 198-207 200-207 203-207
<u>Aggregation Hot-spot</u>	52-66	LIG_WD40_WDR5_VDV_2	58-64 63-66
<u>MoRF</u>	58-81	LIG_WD40_WDR5_VDV_2	58-64 63-66
	85-100	DOC_WW_Pin1_4 LIG_BIR_III_2	93-98 90-94

		LIG_WD40_WDR5_VDV_2	95-99 96-99
		MOD_CDK_SPK_2,	93-98
		MOD_CK1_1	86-92
		MOD_ProDKin_1	93-99
		MOD_SUMO_for_1	97-100
<u>MoRF</u>	116-227	CLV_C14_Caspase3-7	197-201
		DOC_USP7_MATH_1	119-123 190-194 207-211
		DOC_USP7_UBL2_3,	153-158
		DOC_WW_Pin1_4	139-144 169-174
		LIG_BIR_III_2	118-122
		LIG_PDZ_Class_3	222-227
		LIG_TRAF6_MATH_1	184-192
		LIG_WD40_WDR5_VDV_2	130-137 131-137 132-137 133-137 154-161 155-161 215-222 218-222 219-222
		MOD_CDK_SPK_2	93-98
		MOD_CDK_SPxxK_3	139-146
		MOD_CK1_1	128-134 142-148
		MOD_CK2_1	142-148 190-196
		MOD_GlcNHglycan	127-130 132-135

			209-212
		MOD_GSK3_1	135-142 & 186-193
		MOD_PIKK_1	190-196
		MOD_ProDKin_1	169-175 & 139-145
		MOD_SUMO_rev_2	152-155 118-126 122-126 149-159 154-159 191-201 192-201 198-207 200-207

Supplementary Table S7: Distribution of ELMs (Eukaryotic Linear Motifs) in Droplet Promoting Regions, Aggregation Hot-spots, regions, and MoRFs (Molecular recognition features) of the protein Chmp4b (UniProt ID: Q9D8B3).

Region type	Region range	ELM ID	Position
Aggregation hotspot	<u>54-62:</u>	DOC_USP7_UBL2_3	50-60
Aggregation hotspot	<u>197-207:</u>	DOC_USP7_MATH_1	198-202
		DOC_USP7_UBL2_3	202-206
		LIG_SH3_2	200-205
		LIG_SH3_4	202-209
		LIG_SH3_3	197-203
		LIG_SH3_3	194-200
Aggregation hotspot	<u>211-217</u>	MOD_SUMO_rev_2	208-217
		MOD_SUMO_rev_2	209-217
		MOD_SUMO_rev_2	210-217
		MOD_SUMO_rev_2	211-217
		MOD_SUMO_rev_2	212-217
<u>MORF regions</u>	<u>108-118</u>	CLV_PCSK_SKI1_1	114-118
		LIG_PTBApo_2	105-112
		LIG_PTBAphospho_1	105-111
		LIG_SH2_STAP1	111-115
		LIG_WD40_WDR5_VDV_2	111-115
<u>MORF regions:</u>	<u>141-200</u>	DOC_PP1_RVXF_1	149-156
		LIG_FHA_1	186-192
		LIG_Pex14_2	155-159
		LIG_SH3_3	186-192
		LIG_SH3_3	189-195
		LIG_SH3_3	194-200
		MOD_GSK3_1	143-150
		MOD_CK2_1	181-187
<u>Droplet-Promoting Region:</u>	1-22	LIG_BIR_II_1	1-5
		DOC_WW_Pin1_4	18-23
		LIG_LIR_Nem_3	2-7

		LIG_Pex14_2	4-8
	190-224	LIG_SH3_4	202-209
		MOD_SUMO_rev_2	208-217 209-217 210-217 211-217 212-217
		CLV_PCSK_SKI1_1	202-206
		DOC_USP7_MATH_1	198-202
		LIG_SH3_4	202-209
		LIG_SH3_3	197-203 194-200
		LIG_SH3_2	200-205
		DOC_USP7_UBL2_3	202-206

Supplementary Table S8: Distribution of ELMs (Eukaryotic Linear Motifs) in droplet promoting regions, aggregation hot-spots, regions with multiplicity of binding modes and MoRF (Molecular recognition features) of protein DnaJ homolog subfamily B member 6 (UniProt ID: O54946).

Region type	Region range	ELM ID	Position
<u>Droplet-Promoting Region:</u>	58-94	DOC_PP4_FxxP_1	84-87
		DOC_WW_Pin1_4	83-88
<u>Droplet-Promoting Region:</u>	119-185	CLV_NRD_NRD_1	127-129
		CLV_PCSK_KEX2_1	127-129
		DOC_USP7_MATH_1	164-168
		DOC_WW_Pin1_4	160-165
		LIG_AP2alpha_1,	116-120
		LIG_AP2alpha_1	120-124
		LIG_AP2alpha_2	118-120
		LIG_Arc_Nlobe_1,	148-152
<u>Droplet-Promoting Region:</u>	233-365	LIG_Arc_Nlobe_1	155-159
		CLV_NRD_NRD_1	245-247
		CLV_PCSK_KEX2_1,	245-247
		CLV_PCSK_KEX2_1,	345-347
		CLV_NRD_NRD_1	345-347
		CLV_PCSK_PC1ET2_1,	345-347
		DEG_ODPH_VHL_1	253-264
		DEG_SCF_FBW7_1,	271-278
		DEG_SCF_FBW7_1	273-278
		DEG_SCF_FBW7_1	275-282
		DEG_SCF_FBW7_1	277-282
		DEG_SCF_FBW7_1	287-292
		DOC_ANK_TNKS_1	323-330
		DOC_CKS1_1	248-253
		DOC_USP7_MATH_1,	291-295 293-297 334-338

		DOC_USP7_UBL2_3	310-314 341-345 348-352 352-356 358-362
		DOC_WW_Pin1_4	247-252 271-276 275-280 279-284 287-292
Aggregation hotspot:	83-90	DOC_PP4_FxxP_1	84-87
		DOC_WW_Pin1_4	83-88
	105-114	LIG_AP2alpha_2	109-111
	<u>119-131</u>	CLV_PCSK_KEX2_1	127-129
		CLV_NRD_NRD_1	127-129
		LIG_AP2alpha_1	116-120
		LIG_AP2alpha_1	120-124
	156-158	DOC_USP7_MATH_1	164-168
		DOC_WW_Pin1_4	160-165
		LIG_Arc_Nlobe_1	155-159
	241-250	CLV_NRD_NRD_1	245-247
		CLV_PCSK_KEX2_1	245-247
		DOC_CKS1_1	248-253
		DOC_WW_Pin1_4	247-252
	345-353	CLV_NRD_NRD_1	345-347
		CLV_PCSK_KEX2_1	345-347
CLV_PCSK_PC1ET2_1		345-347	
DOC_USP7_UBL2_3		348-352	
MoRF	223-278	DOC_CKS1_1	248-253
		CLV_NRD_NRD_1	245-257
		CLV_PCSK_KEX2_1	245-247
		CLV_PCSK_SKI1_1	226-230

		DEG_ODPH_VHL_1	253-264
		DEG_SCF_FBW7_1	271-278
		DEG_SCF_FBW7_1	247-252
		DOC_WW_Pin1_4 DOC_WW_Pin1_4	271-276
	282-298	DOC_USP7_MATH_1	291-295
			293-297
		DOC_WW_Pin1_4	287-292
	305-365	CLV_NRD_NRD_1	345-347
		CLV_PCSK_KEX2_1	345-347
		CLV_PCSK_PC1ET2_1	345-347
		DOC_ANK_TNKS_1	323-330
		DOC_USP7_MATH_1	334-338
		DOC_USP7_UBL2_3	310-314
			341-345
			348-352
	352-356		
			358-362

Supplementary Table S9: Distribution of ELMs (Eukaryotic Linear Motifs) in droplet promoting regions, aggregation hot-spots, regions with multiplicity of binding modes and MoRF (Molecular recognition features) of Vps37B protein (UniProt ID: Q8R0J7).

Region Type	Region Range	ELM ID	Position
<u>Droplet Promoting Region</u>	157-253	DOC_WW_Pin1_4,	181-186
			218-223
		DOC_WW_Pin1_4	218-230
		CLV_PCSK_KEX2_1	205-207
		CLV_NRD_NRD_1	205-207
		DOC_CKS1_1	219-224
		DOC_CKS1_1	219-225
		DOC_WW_Pin1_4	181-186
		DOC_WW_Pin1_4	218-230
		CLV_PCSK_KEX2_1	205-207
		CLV_NRD_NRD_1,	205-207
		DOC_CKS1_1	219-224
		DOC_CKS1_1	219-225
		DOC_USP7_MATH_1	226-230
		LIG_LYPXL_yS_3	235-238
		LIG_SH3_3	172-178
			175-181
			177-183
			205-211
			206-21
			207-213
			209-215
216-22			
238-244			
239-245			
244-250			
LIG_SH3_2	241-246		
LIG_SH3_1	205-211		

		LIG_SH3_1	206-212
		LIG_TYR_ITIM	189-194
		LIG_WD40_WDR5_VDV_2	182-188
			184-188
			187-194
			191-196
			193-196
			195-202
			197-202
	229-234		
	244-285	DEG_Cend_TRIM7_1	282-285
		DEG_CRBN_cyclicCter_1	
		DOC_CYCLIN_yCln2_LP_	259-265
		LIG_Arc_Nlobe_1	279-283
		DOC_WW_Pin1_4	258-263
		DOC_PP2B_PxlIT_1	280-285
		LIG_SH3_2	265-270
		LIG_SH3_1	274-280
		LIG_SH3_3	259-265
			262-268
265-271			
LIG_WW_2	241-24		
LIG_WW_3	271-275		
MOD_GlcNHglycan	255-285		
MOD_PIKK_1	248-254		
<u>Aggregation Hot-Spots:</u>	191-213	CLV_PCSK_KEX2_1	205-207
		LIG_SH3_1	205-211
		LIG_SH3_1	206-212
		CLV_NRD_NRD_1	205-207
		LIG_LYPXL_yS_3	191-194
	MOD_GSK3_1	190-197	
218-224	DOC_CKS1_1	219-224	

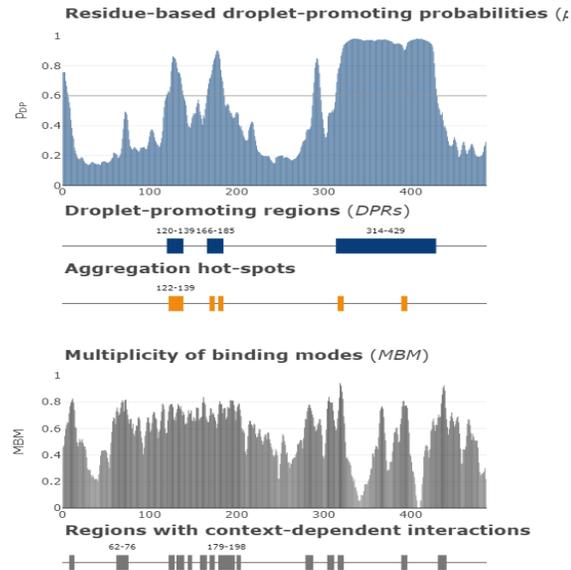
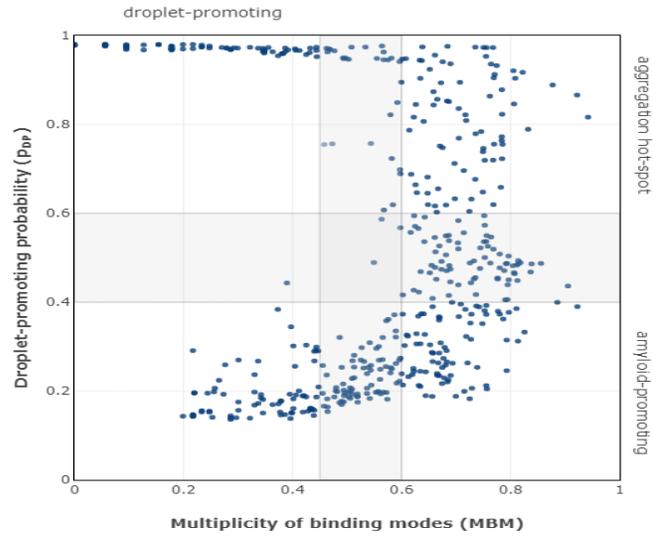
		DOC_CKS1_1	219-225
		DOC_USP7_MATH_1	226-230
		DOC_WW_Pin1_4	218-230
	228-237	LIG_LIR_Nem_3	233-238
MoRF	188-202	LIG_LYPXL_yS_3	191-194
	218-242	DOC_WW_Pin1_4	218-223
		DOC_CKS1_1	219-225
		DOC_USP7_MATH_1	226-230
		LIG_LIR_Nem_3	233-238
		LIG_LYPXL_yS_3	235-238
	188-242 218-242	DOC_USP7_MATH_1	190-194
		DOC_CKS1_1	219-225
		DOC_USP7_MATH_1	226-230
		DOC_WW_Pin1_4	218-223
		LIG_LIR_Nem_3	233-238
		CLV_PCSK_KEX2_1	205-207
		CLV_NRD_NRD_1	205-207
		LIG_LYPXL_yS_3	235-238
		LIG_LYPXL_yS_3	191-194
		DOC_CKS1_1	219-225
		DOC_USP7_MATH_1	226-230
		DOC_WW_Pin1_4	218-223
		LIG_LIR_Nem_3	233-238
	LIG_LYPXL_yS_3	235-238	
	249-263	DOC_WW_Pin1_4	258-263
	279-285	DEG_CRBN_cyclicCter_1	282-285
		LIG_Arc_Nlobe_1	279-283

Supplementary Table S10: Distribution of ELMs (short linear functional motifs) within the sequence of the mouse Wasl protein (UniProt ID: Q91YD9).

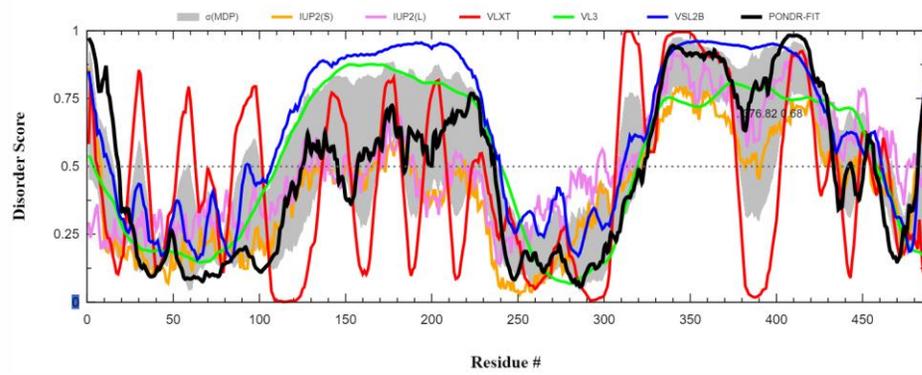
Region type	Region range	ELM ID	Position
<u>Droplet promoting Region</u>	127-165	CLV_NRD_NRD_1	139-141
		CLV_NRD_NRD_1	270-272
		CLV_PCSK_KEX2_1	137-139
		CLV_PCSK_KEX2_1	144-146
		CLV_PCSK_KEX2_1	145-147
		CLV_PCSK_PC7_1	140-146
		CLV_PCSK_PC1ET2_1	144-146
		LIG_SH3_3	146-152 149-155
		LIG_SH3_1	146-152
		LIG_WD40_WDR5_VDV_2	158-161 160-166
		MOD_Cter_Amidation	135-138
		MOD_PKA_2	139-145
		TRG_ER_diArg_1	137-140
LIG_FHA_2	156-162		
<u>Droplet promoting Region</u>	194-222	CLV_PCSK_KEX2_1	193-195
		CLV_PCSK_PC1ET2_1,	193-195
		CLV_PCSK_SKI1_1	193-197
		MOD_PKA_2	193-199
<u>Droplet promoting Region</u>	258-403	CLV_PCSK_KEX2_1	270-272
		DOC_USP7_MATH_1	396-400 346-350
		DOC_PP4_MxPP_1	339-342
		DOC_USP7_MATH_1	291-295
		TRG_Oom_RxLR_1	266-270

		TRG_ER_diArg_1	269-271
		CLV_NRD_NRD_1	270-272
		LIG_EVH1_1	340-344
		LIG_FHA_2	257-263
		LIG_PROFILIN_1	284-290 285-291 355-361 369-375 370-376 371-377 372-378 374-380
<u>Droplet promoting Region</u>	444-501	CLV_PCSK_KEX2_1 & CLV_PCSK_PC1ET2_1	473-475 473-475
		DEG_SCF_FBW7_1	454-460 & 455-460
		DOC_CKS1_1	454-459
		DOC_USP7_MATH_1	477-481 450-455
		DOC_WW_Pin1_4	453-458
		LIG_FHA_2	458-464
		LIG_GBD_Chelix_1	463-471
<u>Aggregation Hot-Spots</u>	470-483	DOC_USP7_MATH_1	477-481
MoRF	458-482	CLV_PCSK_PC1ET2_1	473-475
		DOC_USP7_MATH_1	477-481
		DOC_USP7_MATH_1	477-481
		LIG_FHA_1	458-464

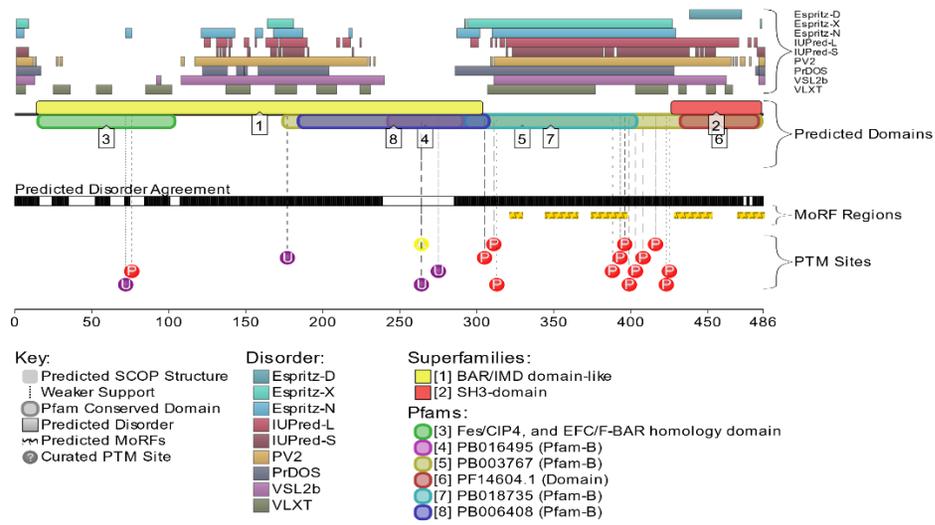
FuzDrop results, RIDAO results, D2P2 Results, STRING-generated PPI network, and AlphaFold Structure for protein Pascin2 (UniProt ID: QNWVE8):

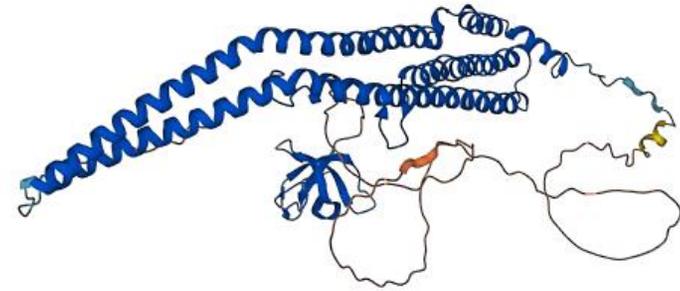
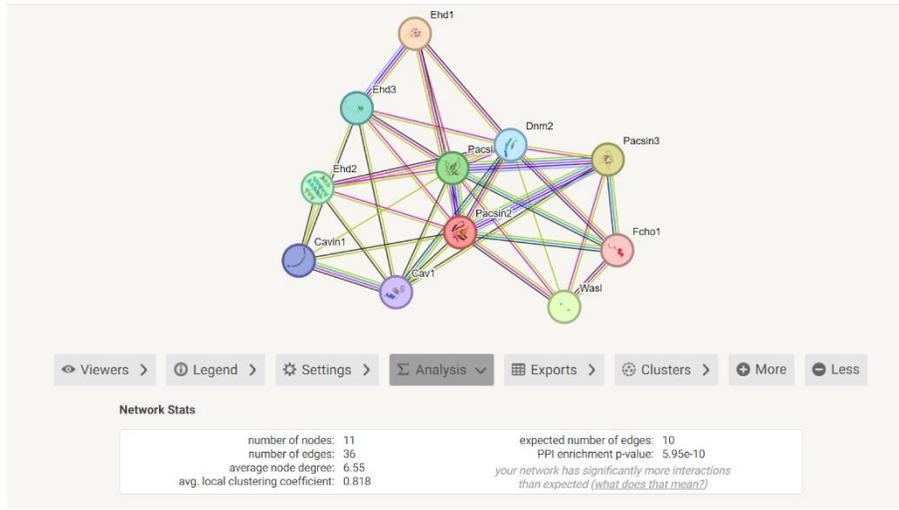


1693440614-P5H9dtyzQ5ITrxAl5pO-Q9WVE8 (Q9WVE8)

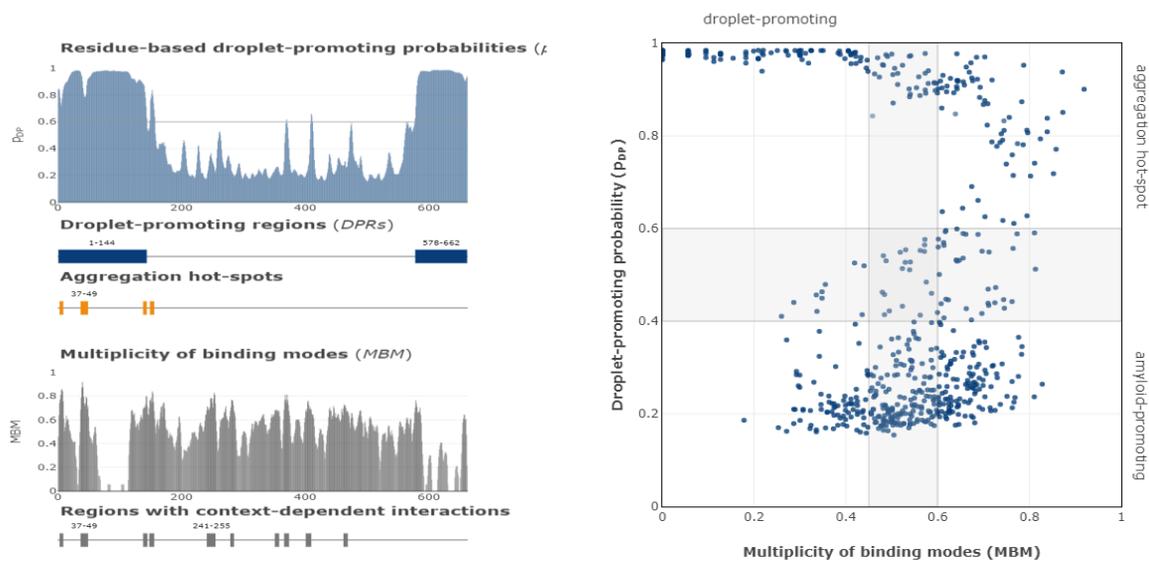


ENSMUSP00000131504, ENSMUSP00000130098, ENSMUSP00000058320

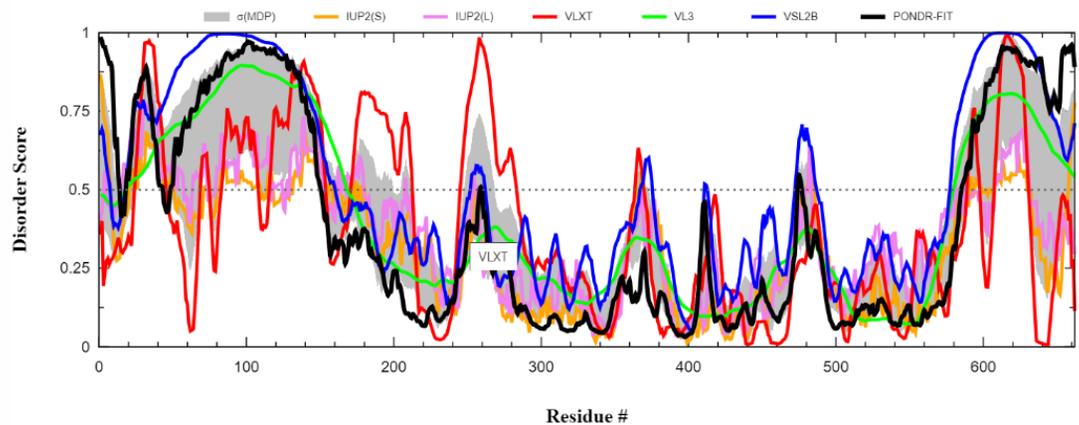




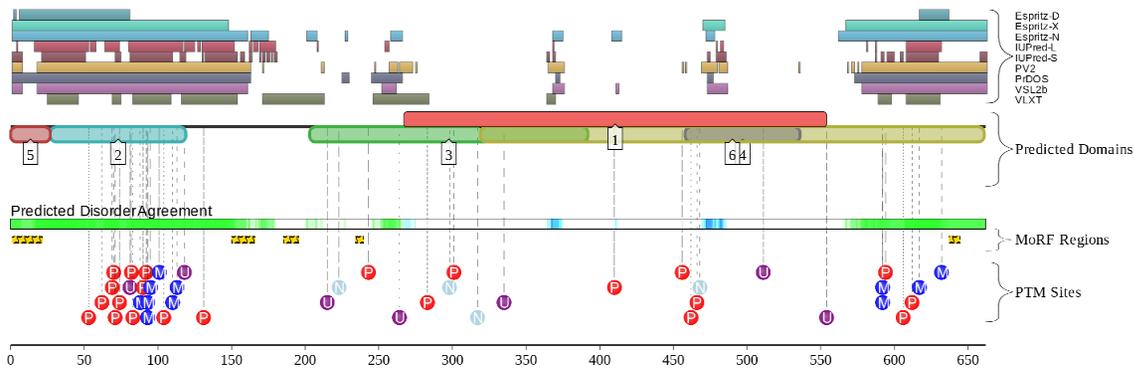
FuzDrop results, RIDAO results, D2P2 Results, STRING-generated PPI network, and AlphaFold Structure for protein Ddx3x (UniProt ID: Q62167):



1693440925-K0MVyWxzKXJazBA1vgE-Q62167 (Q62167)



ENSMUSP0000000804



Key:

- Predicted SCOP Structure
- ⋮ Weaker Support
- Pfam Conserved Domain
- Predicted Disorder
- ★ Predicted MoRFs
- Curated PTM Site

Disorder:

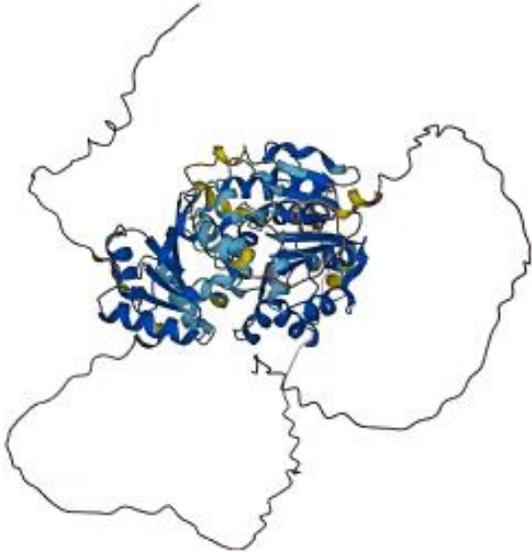
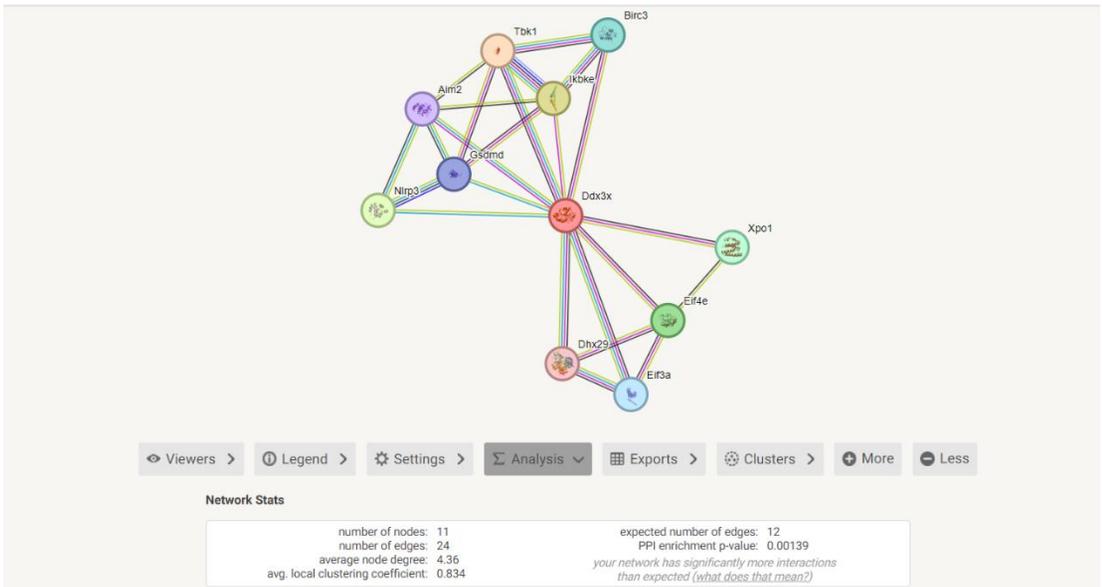
- Espritz-D
- Espritz-X
- Espritz-N
- IUPred-L
- IUPred-S
- PV2
- PrDOS
- VSL2b
- VLXT

Superfamilies:

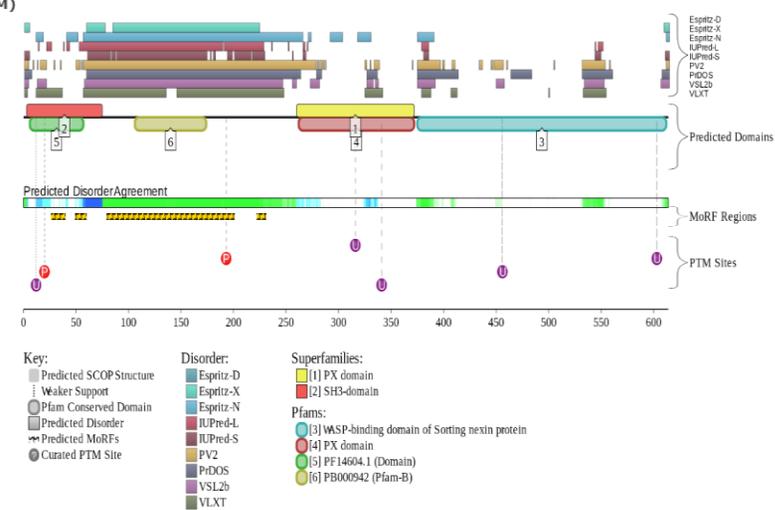
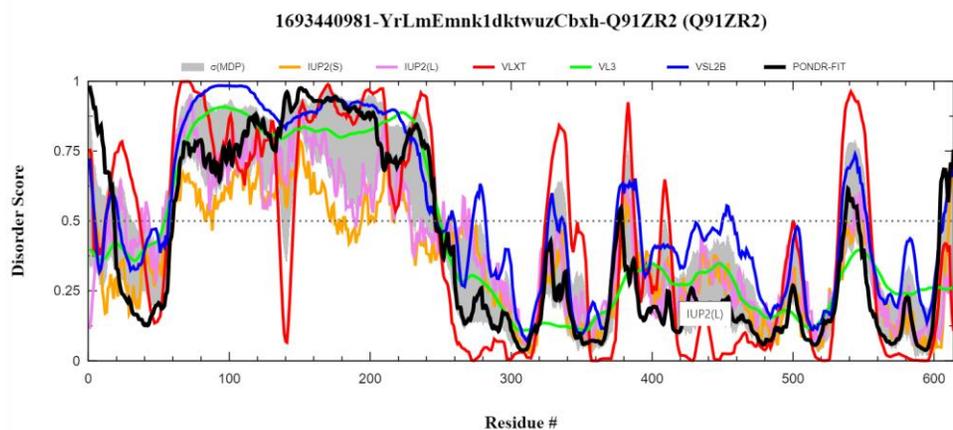
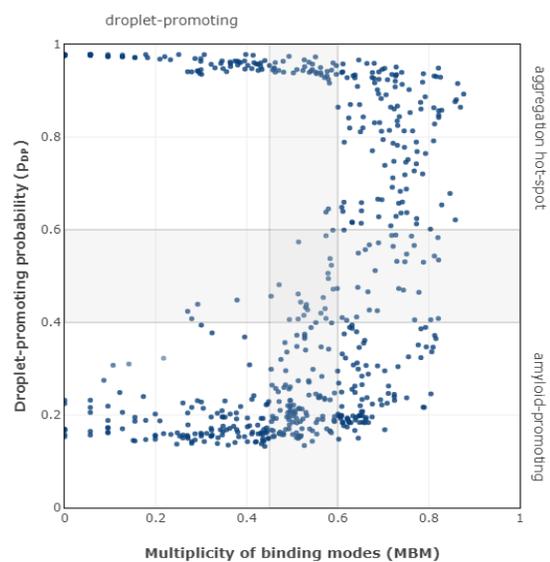
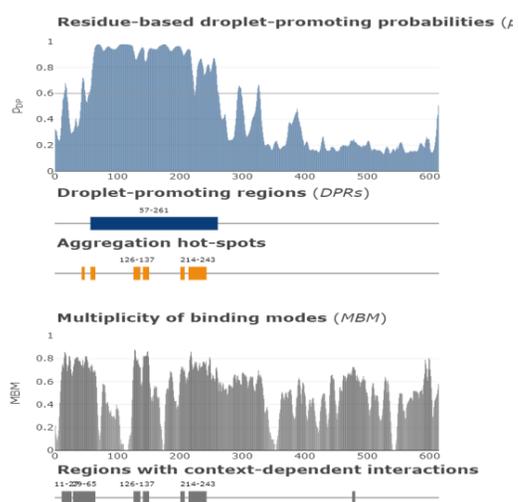
- [1] P-loop containing nucleoside triphosphate hydrolases

Pfams:

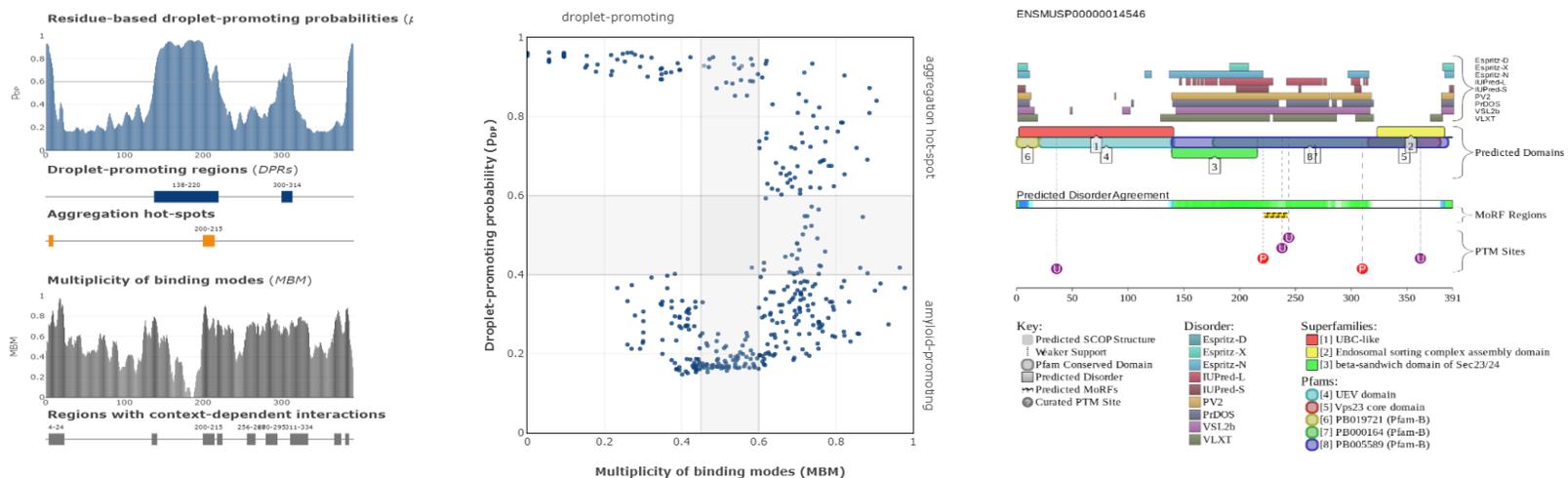
- [2] PB008830 (Pfam-B)
- [3] DEAD/DEAH box helicase
- [4] Helicase conserved C-terminal domain
- [5] PB011507 (Pfam-B)
- [6] PB003201 (Pfam-B)



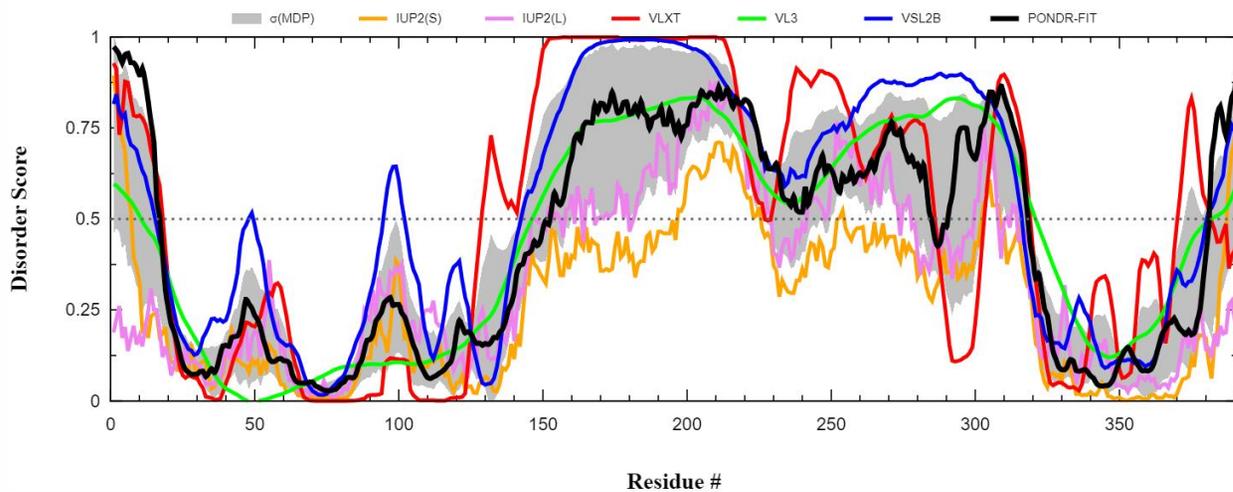
FuzDrop, RIDAO, and D2P2 Results for protein Snx18 (UniProt ID:Q9Z1R2)



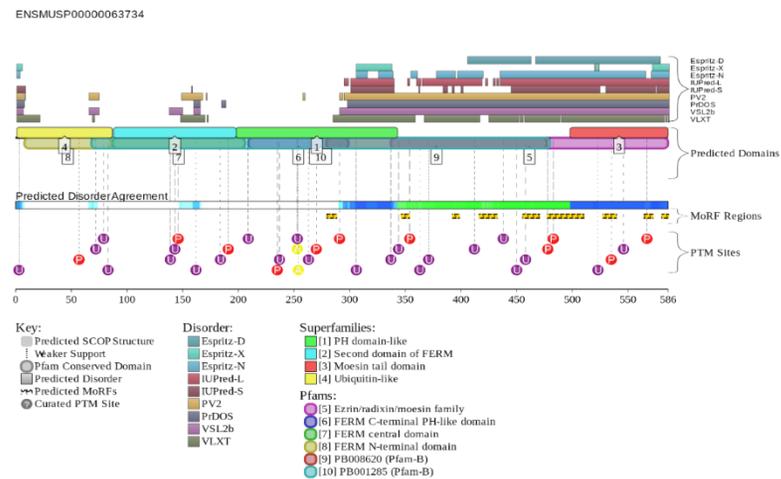
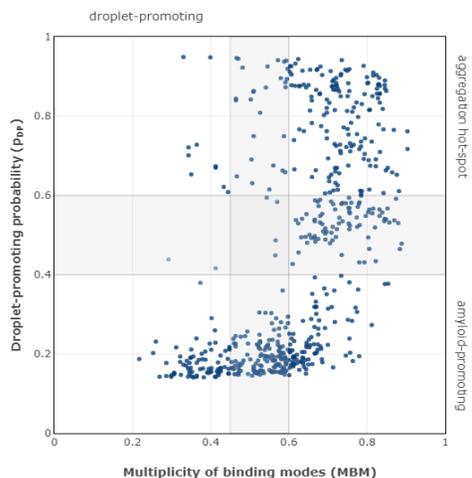
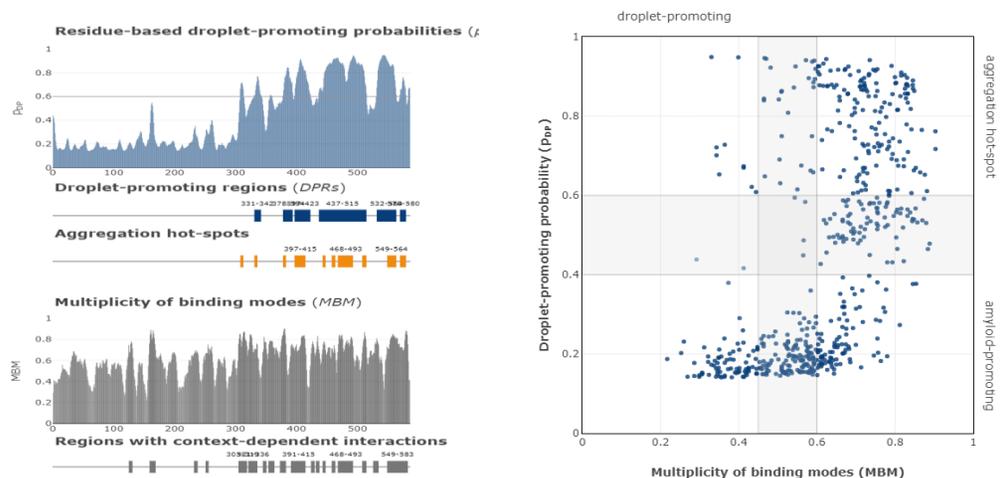
FuzDrop, D2P2, and RIDAO results for protein Tsg101 UniProt ID: Q61187 :



1693440996-3P5aLYzk6p5mpEFxvkZ-Q61187 (Q61187)



FuzDrop, D2P2, and RIDAO results for protein Ezr (UniProt ID: P26040):



1693441165-7U2dxM43B2FLvXBICcR-P26040 (P26040)

