

Color key for sequences:

- Blue: 31239769.i
- Green: 24664868.f
- Red: 17569429.w
- Cyan: BRSK1.h
- Magenta: BRSK2.h
- Yellow: 34861259.m
- Pink: 13811953.z
- Light Blue: 6322748.y
- Dark Blue: lia8_A
- Dark Green: 19114786.y
- Dark Red: 10383767.y
- Dark Cyan: 6320715.y
- Dark Magenta: 39970687.y
- Dark Yellow: 32422025.y
- Dark Pink: 2phk_A
- Dark Light Blue: 1kwp_A
- Dark Dark Blue: 1jkk_A
- Dark Dark Green: 19114219.y

31239769.i G-RTLSVLFFLDQLHPSSP
NAASNRSNSYSPRS STKSVQIDSSSPVHRRANGSPAVTVGLFSETDENNMTSINAIPGSPILGLSPQQ... LQAVTGSQQLWKLRLTN
IKNSELGSPPKPHRRRKQIISTEVEHLTPE SSPELTKKSWFQ
24664868.f GDRPSGHSSVSSRSHQSIEGDVVVVRERPLRERDLSLRQERGGGSIPDRDCGICPPGSPGGNSCSTSASPVHRRANGSPAVTVGLFSETDENNMTSINAIPGSPILGLSPQQ... LQAVTGSQQLWKLRLTN
IKNSELGSPPKPHRRRKQIISTEVEHLTPE SSPELTKKSWFQ
17569429.w YTQFVDPOTLAEARHVRDQAE RRESRDSGRSSERKESRDKSASSSSNCNDAASSTSSVPHYKNSVMSSESVVSSSTMNTNS... TNSLIAGNSQT SIGSTG... EWRKLNN
IKNSELGSPPKPHRRRKQIISTEVEHLTPE SSPELTKKSWFQ
BRSK1.h SSSPLSFRSFVFSPFEGAG DEARGGGSPSTQTLPLSRGPRGGGAGEQPPPSARSTPLPGPPGSPRSSGGTPLHSPLHTFRAS PTGTPGTTP PSPGGVGAAWRSLNS
IRNSFLGSPPRHFRRRKQVPTAEMSSLTE-SSPELAKRSWFQ
BRSK2.h STSPLSFSR VTPHSPRSPSLPLTKG- TFPHTPKES- PAGTNPPTP- SSP- SVGVGFWARLNS
IKNSELGSPPKPHRRRKQVPTAEMSSLTE-SSPELAKRSWFQ
34861259.m DEARGGGSPSTQTLPLSRGPRGGGAGEQPPPSARSTPLPGPPGSPRSSGGTPLHSPLHTFRAS PTGTPGTTP PSPGGVGAAWRSLNS
IRNSFLGSPPRHFRRRKQVPTAEMSSLTE-SSPELAKRSWFQ
13811953.z AEAHQFSKE TSPLSFRPV- DRERSISGASSGLS KMKMD5
VRSNLINAEANFKRKLF
ECPPEYPTIKEKNQFNMYKPSENMSGLSSPIKEKNTLSSYEBQKIKRAA
6322748.y KSIHKSLSRKNIATVAARRTLN...-EASKRSLYSLSOSISKRLNLNDLLVFDPLPSKKPASEVNKSEPHSLESDSDFEILCDQILFGNALDRILEEEEDENEKERDTQRQRNDTKSSADTFITISCVNSTKEN
1ia8_A ...
19114786.y -LVKSNSVTSNSRKSNFED- ELARRVSPLSALNQMSPPIPIRVSSD- KDYDSYACHEVVSNPSTLDDNYMFVCPPEEYTYSTDNVRTDSDLQLSPLPTLEQLESVPFNRYGYRIPPSTTLSS...-TASGYTTPDSSLTEPEPSIDGLTNLDDQVGGFVGQSGSNQN-
10383767.y KRNSKKRSKRLSYMNTKRSNLTSKSLNFNTLIDDDWEYIEKDAKRTSSNFATLIDELFEPEKPLAKERQKVQEAKR- QSVNAQKINDE- FGSEVSUDMKELKKINDK
17569215.y KRSS-RSIKMSLIPS MKRRESVT KLMSTYAKLAEDDWEEYIEKETKRTSSNFATLIDELFEPEYEVKEVQREKEELERLKREKAREELERRRKQEEKERARKLLEKEDLKKRQEEELKKQIEIDSLQEQLSKHEKEKLDGNIRSIISAMENEKKINH
39970687.y OLGSRLILTPRSTAASSVOSRKFH- ARSRSSRQKRAMDFS- TARRKAAAALKSNQPTLLGTDGSKTVTGWNWICCSDE-DIPGDTADSSSNARLRSKDR- LHEELRHFSSSIAKCDEAFNSSL- SVSQFEDGRSRSRGSPFSLSLGTP-VSATPVDVPTTIPRPSARPWD
32422025.y QRNTNTGRLRSSMGSMGSLRSNLNGT- RVRANNRKSRRGVDFSSIRARDLQARVRENRAAPSSAAGGSVVDRRNCSRQQRKAIIHSADNTLRSRDETLIWEELQQLCYRIAMCDEAFRSSLVGETSAVSGSRENSPFSLSLGASSPSPQESP
2phk_A 1kwp_A 1jkk_A 19114219.y ALSLIRNFNVSINDPEVQLSRRATSLDMNSNDFRMNENDPSIVCNLAASNFPTGMGPPRKRVTSRMSEHTGNVVFTRGSAFN-RVTRFNVNGNEQFSNNIDNNNNYQNPYANA
31239769.i NLMTEKDETFTVLVKGPATVKAHLIAHFLMTPDLSHVSVLSPSPMFRVEYKRG- GTGPTMFRQHVRLQVDINTICKQGDVG
24664868.f DMLFAITFTLISQNRJRRFRCIICHQA
17569429.w NLTTEKDETTCVLCVGPATVKAHLIAHFLMTPDLSHVSVLSPSPMFRVEYKRG- GTGPTMFRQHVRLQVDINTICKQGDVG
BRSK1.h SSMSVERDDTTCVVCQVKTNSKAELIRAFQIHLISHSVVGQNCFRVEYKRGPTVGSVSRGIKMNVIDIISPPQVQVIAGE
BRSK2.h NFISLDKEEIQIFLVLKDPPISSIKADTVHAFLIPSPLSLSVLSQTSFRAYEAT- GGGPAVFKQVFKQVQDVITYTEBEGEAQKE
34861259.m NFISLEKEEQIIVVVKDPLISSIKADTVHAFLIPSPLSLSVLSQTSFRAYEAT- GGGPAVFKQVFKQVQDVITYTEBEGEAQKE
13811953.z LTKPQDGTSN- PLPACTQTQPPGASLGTPLALS- PGPPPTLPAPARLLP- TGTEINTK-
6322748.y LSDDITNSFNKMKQEGMRIEKKIQTREOLQKNDRSPPLRPIHQELRVNS- NDQK-SLSELD-RRNLSQPVNSKVESSLQGLKFKEPAHSHWHERGSLFMSEIVEDEK/FVKASDV
1ia8_A ...
19114786.y RRISPVLSVQD...-NVRSAAPLCCSSPPVTKYQSYATNARYTCKVSGSVLKRKISSEFRKD-
10383767.y PVTEITPLPNLLEKTALE- DTEKKIETIIRRSKPLGSLNVRGGLSEGKSE- LAP- IEESPVISTTPILYNDRMEP- RRDSDVEHFRKXKHEFTTANNRSLSLY-AKDS1KDLNEFLIEDPDLPPQGSTONES-R
6320715.y -SSPTEEVSPVPEPKRTENERLITTEKKILETIRRSKPLGSSFNIDKEKLKSKMEYPSIIAPQLRSEERVVSDSNDGYEsslLPLKDNGVSQLKDSTATTAPVSDGRLRKSEIRVFQTRKSRHFS
39970687.y FGENPSILARRQOPTQYCNRSGFPVAPNTTIPRPSAVP- HNGQYGGCATKLPSIEEATPTNTIQDEVNPKRPSAVP- TSEARGLFSLNSQASQTRIVHSRPSACREGISITRPPICANPKSMVGTGPKQASID
32422025.y YGVNP-VVRPAPIRERLSD-NCASQTLVDRRIVVSEPVYTTTAP- RDPQLSINETAS- EDWTRNASTRWASDTPS
2phk_A 1kwp_A 1jkk_A 19114219.y -LVAELEHEILEVLRWQ- LGIGIADIYDSVSA- ISARIKRONSLNLKPVRFRISVLAEFFGSQAVFVLESGSSTTFDHLAT- EFQLIFEDKGFLDNLLELSYFQASA8RPSVSRMSVSSSPFAVFRQRQSVQS
31239769.i 1210 1220 1230 1240 1250 1260 1270 1280 1290 1300 1310 1320 1330 1340 1350 1360 1370 1380 1390 1400
24664868.f RLS- YKRVQVENDMENDSIFS YKSGNCRASTTNNNN- FVDPDPSPIAVRSENSETAEMERRELQSERQATTTMGGAI-
17569429.w SESNAASSINMIARHSDKTETTSATSSDPYGPSPMSRVSQSGTAN- YKSPTHRRNTTAVTASSSSA-NRYGPSSSSSSGYSNNADSYVPEYSQNSRNSGKPNYQSPSGCRSAFMSFNKADKV
BRSK1.h RSLQPPPGRPDPDPLSSESSPRRGPKDKLILAT- NGTPLP
BRSK2.h PPP- PAPCLSWCAG- LKGQKVAT- YESLL
34861259.m PPSSPSVGGVPWTRLNSLKS- FLGSPPRFHRRKLOG
13811953.z ...
6322748.y NQSRSVAMSHPLRKQSAKISLTPRSINLNANLSVKRNQGSPGSYSLNLDGSI- SMDTFAMEIPTNTFTAQAIQLMMNDIDNNKINTSPKASSFTKEVIKSAAYISKEPDN- SDTINYIPDYTIPNTYDEKAINIFEDAPS
1ia8_A 19114786.y SEDPEIAESITDGRNIQYDEDDSKD- GDNVNNND- ILSDFPQGVGSIQYEDMKD- KNPNQSPISKSAEPLTVVLP- SLSSFQGKNAASGLGLYQREPSKVTLPSTSNNSSVGENIEDGAEKGTE- SEKIAASLSDDDLKEDNDKKNDTVNAPTTVKKPPNSVLLKKFSKGKILELE
10383767.y SADDSEFLFETVNEEABYTGNSSSNDERLYDVGDSITIKDALKNSALKINPDRFNGSNEAKTQDNLHLPIPLPGLNGDNELRKNSQEGDOAHKIKSMIFPEQHKEKREKQEDD
6320715.y YHADDSIISSHRNAQACATSSHGSAST- FAMRKTTSSWFKRLSPKRSKGSKGLCDLDDTK- IDVPHGLTSPKIKNERDNSSINMSHPRKPTKNSKKFFPLFWRHKSEPMRSLAE- DFEESPSPE- TNAAVKSHKTSGNLLNFDAEASERMXPKQONWLARLFRVPTVRLC1SISRRRKAQEVAILLROW
39970687.y PPDFKENCPPGTQOEQVGVDNTVNAGAPAKKRVPSWFRSSKDN- TSFATTANTAAIHNDSTIIS- DIHQQLDGEQSQSSARP- DPYPNKKKAFSIAFWKGSKSENSSPTASTFDISTSKEGGKKHSSKSESRVVGATQSWSGEGBGVRQIEVQNWLRFLFRVKPATRHLCFCSMPRRRARQEVAILLROW
32422025.y 2phk_A 1kwp_A 1jkk_A 19114219.y ...
31239769.i 1410 1420 1430 1440 1450 1460 1470 1480 1490 1500 1510 1520 1530 1540 1550 1560 1570 1580 1590 1600
24664868.f ...
17569429.w ...
BRSK1.h ...
BRSK2.h ...
34861259.m ...
13811953.z ...
6322748.y LSKLRLSPEN/SNTHMCKRPSSTRGERDENALGIOSSLQSMFKDLEDQDGHTS CADILESSMSYKRRPSEESVNFQKRVTLNFDEEEEEEK- KVVGKKIKREHKLKDNTKSEESSQQLVLPVVEKKENANNTENNYSKIPKSTIKVTKDAMESNTOTHKKPLIKSVQNVVEAPSSDKNNWFWKLFQNSSEINNAT
1ia8_A ...
19114786.y ...
10383767.y IHAKIPEKRLYEGHLKLLECWKOYGLKNLVFNNTNNIIYGKLVNDNLIFLRLSTLFEIMVL- NGDGRSLIXFNMKTGSTKLTKLATEIQTQIILQKEGVLDK
6320715.y LYAKISAKQLENGLKEKLRLGWTOYGLKNLKSHENNLTLTGKLDSPNLSLRTPEVNIYRKG- MSVWQFKVSGSGFKAVKLVNEVENVLNKVEGLVQK
39970687.y RKYGIRDVEVKRKNVVFARLSSKNHNLNIKEVALACEIITVIEHGRK- HLSIVRFTQEKGAASSFQRVVDTMRDVLGNRNLVTDKSKAKMMIKTLNS-
32422025.y RQFGIKDVEVKERNIIIFARVGAQNVHNVKEVSFAIEIMMVIIEHGRKRTQLSIARETFQEKGAASSFHVVDAINVEFRNRLVLTDKRKTQOMMIKTLNS-
2phk_A 1kwp_A 1jkk_A 19114219.y ...

