

Product datasheet for **RR214571**

Caprin1 (NM_001012185) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caprin1 (NM_001012185) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Caprin1
Synonyms:	Gpiap1; GPI p137; rng105
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RR214571 representing NM_001012185
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCTCGGCCACCAGCCACAGCGGAAGCGGCAGCAAATCGTCGGGACCGCCGCCCGTCCGGTTCCT
 CCGGGAGTGAGGCGGCCCGGGCAGCTGCGCCGGCTTCTCAGCATCCGGCAACCGGCACCGGCCGGT
 CCAGACCAGGCCATGAAGCAGATTCTCGGCGTGATCGACAAGAACTTCGGAACCTTGAGAAGAAAAAG
 GGTAAACTTGATGATTACCAGGAACGAATGAATAAAGGGGAAAGGCTCAATCAAGACCAGCTGGATGCCG
 TATCTAAGTACCAGGAAGTCACAAATAATTTGGAGTTTGCAAAGGAATTACAGAGAAGTTTCATGGCATT
 AAGTCAGGATATTCAGAAAAAATAAAGAAGACAGCACGTCGGGAGCAGCTTATGAGAGAAGAAGCAGAA
 CAGAAGCGCTTAAAACTGTACTTGAGTTACAGTATGTATTGGATAAGCTGGGAGATGATGATGTGAGAA
 CGGATCTGAAGCAGGGGCTGAGTGGAGTGCCAATATTGTCTGAAGAGGAGTTGTCATTGTTGGATGAATT
 CTACAAGTAGTAGATCCCGAGCGGGACATGAGTTTAAAGTTAAATGAGCAGTATGAACATGCCTCCATT
 CACTTGTGGGATTTGCTGGAAGGAAAGAAAAGCCTGTATGTGGAACAACCTATAAAGCTCTAAAGGAAA
 TTGTGCGAGCGTGTTCAGTCAAACACTTTTGACAGCACTCATATCATCAAAATGGATTGTGTGAGGA
 GGAAGAGGCAGCTTCAGCACCTATAGTGAAGACCAGGTAGCTGAAGCTGAACCTGAACCAACGGAAGAA
 TACACAGAGCAAAGTGAGGTTGAGTCAACAGAGTATGTCAATAGGCAGTTCATGGCGGAAACACAGTTCA
 GCAGTGGTGAGAAGGAGCAAGTGGATGAGTGGGCAAGTGAACAGTTGAGGTGGTAACTCACTCCAGCA
 GCAACCTCAGGCTGCATCTCCTCAGTACCAGAGCCCCACTCTGACTCCAGTGGCTCAGTCAGATCCA
 CTAATGTTGGATTTGAAAATCAGACGCTTGATCCTGCCATTGTATCAGCACAACCTATGAACCTACCCA
 AAACATGGATATGCCTCAGCTGGTTGCCCTCAGGTTTCTGAATCTAGACTTGCCCAATCTAATCAA
 GTTCTGTACAACCAGAAGCCACACAGGTTCTTTGGTCTCATCCACAAGCGAGGGGTACTGCGTCTC
 AGCCCCTGTACCAGCGTCTCATGCTGCAGAGCAGCGGCCACAAAAGGAGCCATTGATCAGATTCAGGC
 AACAAATCTTTAAATACAGAGCAGACTACAGCATCATCATCCCTTCTGCTGCTTCTCAGCCTCAAGTG
 TTCCAGGCTGGGCAAGTAAACCTTTGCATAGCAGTGAATCAATGTAATGCAGCTCCATTCCAATCCA
 TGCAAACGGTGTTAATATGAATGCCCCAGTTCCTCCTGTTAATGAACCAGAACTTTAAAACAACAGAG
 TCAGTACCAGGCCAGTTATAACCAGAGCTTTCCAGTCAGCCTCACCAAGTGAACAAACAGAGCTTCAA
 CAAGACCAGCTGCAAACGTGGTTGGCACTTACCATGGATCCCAGGACCAGCCTCATCAAGTGCCTGGTA
 ACCACCAGCAGCCCCCAGCAGAGCACCAGGCTTTCCACGTAGCAGTACAGCCTTATTACAACAGTCGCGG
 TGTATCTCGAGGAGGTTCTCGTGGTGCCAGAGTTTGATGAATGGATACAGGGGCCCTGCCAATGGATT
 AGAGGAGGATATGATGGTTACCGCTCTTCACTTCCAACACTCCAACAGTGGCTATACACAGTCTCAGT
 TCAATGCTCCCCGGGACTACTCTGGCTACCAGCGGGATGGATATCAGCAGAATTTCAAGCAGGCTCTGG
 GCAGAGTGGACCAGGGGAGCCCCACGAGGTCGTGGAGGGCCCCAAGACCCAACAGAGGGATGCCGCAA
 ATGAACACTCAGCAAGTGAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR214571 representing NM_001012185
 Red=Cloning site Green=Tags(s)

MPSATSHSGSGSKSSGPPPPSGSSGSEAAAGAAAPASQHPATGTGAVQTEAMKQILGVIDKKLRNLEKKK
 GKLLDDYQERMNKGERLNQDQLDAVSKYQEVNTNLEFAKELQRSFMLSQDIQKTIKKTARREQLMREEAE
 QKRLKTVLELQYVLDKLGDDVVRTDLKQGLSGVPILSEEELSLDEFYKLVDPERDMSLRLEQYEHASI
 HLWDLLEGKEKPVCGTTYKALKEIVERVFQSNYFDSTHNSHQGLCEEEEEASAPIVEDQVAEAEPEPTTE
 YTEQSEVESTHEYVNRQFMAETQFSSGEKEQVDEWAVETVEVVNSLQQQPQAASPSVPEPHSLTPVAQSDP
 LVRQRVQDLMAQMGGPYNFIQDSMLDFENQTLDPAIVSAQPMNPTQNMMPQLVCPQVHSESLAQSNDQ
 VPVQPEATQVPLVSSTSEGYTASQPLYQPSHAAEQRPQKEPIDQIQATISLNTEQTTASSSLPAASQPQV
 FQAGASKPLHSSGINVNAAPFQSMQTVFNMNAPVPPVNEPETLKQSQYQASYNQSFSSQPHQVEQTELQ
 QDQLQTVVGTYHGSQDQPHQVPGNHQPPQQTGFPRSSQPYNSRGVSRGSGRGARGLMNGYRGPANGF
 RGGYDGYRSSFSNTPNSGYTQSQFNAPRDYSGYQRDGYQQNFKRSGSQSGPRGAPRGRGGPPRPNRGMPP
 MNTQQVN

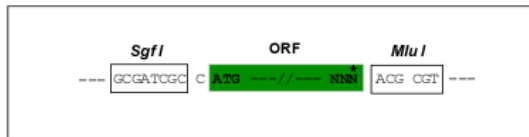
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001012185

ORF Size: 2121 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001012185.2](#), [NP_001012185.2](#)

RefSeq Size: 3313 bp

RefSeq ORF: 2124 bp

Locus ID: 362173

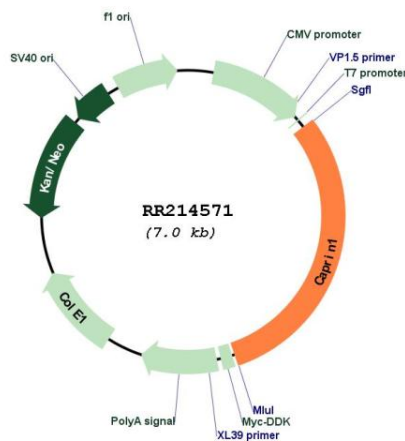
UniProt ID: [Q5M9G3](#)

Cytogenetics: 3q32

MW: 78.1 kDa

Gene Summary: May regulate the transport and translation of mRNAs of proteins involved in synaptic plasticity in neurons and cell proliferation and migration in multiple cell types. Binds directly and selectively to MYC and CCND2 RNAs. In neuronal cells, directly binds to several mRNAs associated with RNA granules, including BDNF, CAMK2A, CREB1, MAP2, NTRK2 mRNAs, as well as to GRIN1 and KPNB1 mRNAs, but not to rRNAs.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR214571