

Product datasheet for **RN214571**

Caprin1 (NM_001012185) Rat Untagged Clone

Product data:

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



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Fully Sequenced ORF: >RN214571 representing NM_001012185
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCCTCGGCCACCAGCCACAGCGGAAGCGGCAGCAAATCGTCGGGACCGCCGCCGTCGGTTCCT
 CCGGGAGTGAGGCGGCCGCGGGCAGCTGCGCCGGCTTCTCAGCATCCGGCAACCGGCACCGGCCGGT
 CCAGACCGAGGCCATGAAGCAGATTCTCGGCGTGATCGACAAGAACTTCGGAACCTTGAGAAGAAAAAG
 GGTAACCTTGATGATTACCAGGAACGAATGAATAAAGGGGAAAGGCTCAATCAAGACCAGCTGGATGCCG
 TATCTAAGTACCAGGAAGTCACAAATAATTTGGAGTTTGCAAAGGAATTACAGAGAAGTTTCATGGCATT
 AAGTCAGGATATTCAGAAAAAATAAAGAAGACAGCACGTCGGGAGCAGCTTATGAGAGAAGAAGCAGAA
 CAGAAGCGCTTAAAACTGTACTTGAGTTACAGTATGTATTGGATAAGCTGGGAGATGATGATGTGAGAA
 CGGATCTGAAGCAGGGGCTGAGTGGAGTGCCAATATTGTCTGAAGAGGAGTTGTCATTGTTGGATGAATT
 CTACAAGCTAGTAGATCCCGAGCGGGACATGAGTTTAAGTTAAATGAGCAGTATGAACATGCCTCCATT
 CACTTGTGGGATTTGCTGGAAGGAAAGAAAAGCCTGTATGTGGAACAACCTATAAAGCTCTAAAGGAAA
 TTGTCGAGCGTGTTCCTCAGTCAAACCTACTTTGACAGCACTCATAATCATCAAAATGGATTGTGTGAGGA
 GGAAGAGGCAGCTTCAGCACCTATAGTGAAGACCAAGGTAGCTGAAGCTGAACCTGAACCAACGGAAGAA
 TACACAGAGCAAAGTGAGGTTGAGTCAACAGAGTATGTCAATAGGCAGTTTATGGCGGAAACACAGTTCA
 GCAGTGGTGAGAAGGAGCAAGTGGATGAGTGGGCAAGTTGAAACAGTTGAGGTGGTAACTCACTCCAGCA
 GCAACCTCAGGCTGCATCTCCTTCACTACCAGAGCCCCACTCTGACTCCAGTGGCTCAGTCAGATCCA
 CTTGTGAGAAGACAGCGAGTACAAGATCTTATGGCACAATGCAAGGGCCCTATAATTTACATACAGGATT
 CAATGTTGGATTTTGAAGATCAGACGCTTGATCCTGCCATTGTATCAGCACAACCTATGAACCTACCCA
 AAACATGGATATGCCTCAGCTGGTTTGCCTCAGGTTTCTGAATCTAGACTTGCCCAATCTAATCAA
 GTTCTGTACAACCAGAAGCCACACAGGTTCTTTGGTCTCATCCACAAGCGAGGGGTACACTGCGTCTC
 AGCCCCGTGTACCAGCGTCTCATGCTGCAGAGCAGCGGCCACAAAAGGAGCCATTGATCAGATTCAGGC
 AACAAATATCTTTAAATACAGAGCAGACTACAGCATCATCATCCCTTCTGCTGCTCTCAGCCTCAAGTG
 TTCCAGGCTGGGCAAGTAAACCTTTGCATAGCAGTGGAATCAATGTAATGCAGCTCCATTCCAATCCA
 TGCAAACGGTGTTAATATGAATGCCCCAGTTCCTCCTGTTAATGAACCAGAACTTTAAACAACAGAG
 TCAGTACCAGGCCAGTTATAACCAGAGCTTTTCCAGTCAGCCTCACCAGTGAACAAACAGAGCTTCAA
 CAAGACCAGCTGCAAACTGTGGTTGGCACTTACCATGGATCCCAGGACCAGCCTCATCAAGTGCCTGGTA
 ACCACCAGCAGCCCCCAGCAGAGCAGCGGCTTCCACGTAGCAGTCAGCCTTATTACAACAGTCGCGG
 TGTATCTCGAGGAGGGTCTCGTGGTGCCAGAGGTTTGATGAATGGATACAGGGGCCCTGCCAATGGATT
 AGAGGAGGATATGATGGTTACCGCTCTTATTCTCCAACACTCCAACAGTGGCTATACACAGTCTCAGT
 TCAATGCTCCCCGGGACTACTCTGGCTACCAGCGGGATGGATATCAGCAGAAATTTCAAGCAGGCTCTGG
 GCAGAGTGGACCACGGGGAGCCCCACGAGGTCGTGGAGGGCCCCAAGACCCAACAGAGGGATGCCGCAA
 ATGAACACTCAGCAAGTGAAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001012185
Insert Size: 2124 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<ol style="list-style-type: none"> 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:	<u>NM_001012185.2, NP_001012185.2</u>
RefSeq Size:	3313 bp
RefSeq ORF:	2124 bp
Locus ID:	362173
UniProt ID:	<u>Q5M9G3</u>
Cytogenetics:	3q32
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]