

Product datasheet for **MC220791**

Caprin1 (NM_016739) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caprin1 (NM_016739) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Caprin1
Synonyms:	AL022980; Caprin-1; Gpiap; Gpiap1; Mmgpip137; P137; rng105
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220791 representing NM_016739
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCTCGGCCACCAGCCACAGCGGAAGCGGCAGCAAATCGTCGGGACCGCCGCCCGTCCGGTTCCT
 CCGGGAGTGAGGCGGCCGCGGGCAGCTGCGCCGGCTTCTCAGCATCCGGCAACCGGCACCGCGCCGT
 CCAGACCAGGCCATGAAGCAGATTCTCGGCGTAAATCGACAAGAACTTCGGAACCTGGAGAAGAAAAAG
 GGTAAACTTGATGATTACCAGGAACGAATGAATAAAGGGGAAAGGCTCAATCAAGACCAGCTGGATGCCG
 TATCTAAGTACCAGGAAGTCACAAATAATTTGGAGTTTGCAAAGGAATTACAGAGGAGTTTCATGGCATT
 AAGTCAAGATATTCAGAAAAAATAAAGAAGACAGCACGTCGGGAACAGCTTATGAGAGAAGAAGCAGAA
 CAGAAGCGCTTAAAACTGTACTTGAGTTACAGTATGTATTGGATAAGCTGGGAGATGATGATGTGAGAA
 CAGATCTGAAACAAGTTTGAGTGGAGTGCCAATATTGTCTGAGGAGGAGTTGTCATTGCTGGATGAGTT
 CTACAAGCTCGTAGATCCTGAGCGTGACATGAGTTTAAAGTTAAATGAGCAGTATGAACATGCCTCAATT
 CACTTGTGGGATTTGCTGGAAGGAAAGAAAAGCCTGTGTGTGGAACAACCTATAAAGCTCTAAAGGAAA
 TTGTTGAGCGTGTTCAGTCAAACACTTTTGATAGCACTCACAAATCATCAAAATGGGTTGTGTGAGGA
 GGAAGAGGCGGCTTCAGCGCCACAGTGGAGGACCAGGTAGCTGAAGCTGAACCTGAGCCAGCGGAAGAA
 TACACAGAGCAAAGTGAGGTTGAATCAACAGAGTATGTCAATAGGCAGTTCATGGCAGAAACACAGTTCA
 GCAGTGGTGAGAAGGAGCAAGTGGATGAGTGGACAGTTGAAACAGTTGAGGTTGTAACCTCACTCCAGCA
 GCAACCTCAGGCTGCGTCCCCTTCAGTCCCAGAGCCCCACTCTTGACTCCAGTGGCTCAGTCAGATCCA
 CTTGTGAGAAGGCAGCGTGTACAAGATCTTATGGCACAATGCAAGGGCCCTATAATTTACATACAGGATT
 CAATGTTGGATTTGAAAAACAGACGCTTGATCCTGCCATTGTATCCGCACAGCCTATGAACCCCTACCCA
 GAACATGGATATGCCTCAGCTGGTTGCCCCAGGTTTCTGAATCTAGACTTGCCCAATCTAATCAA
 GTTCTGTACAACCAGAAGCCACACAGGTTCTTTGGTTTCATCCACAAGTGAGGGGTATACAGCATCTC
 AGCCCTTGTACCAGCCATCTCATGCTACGGAGCAGCGGCCGAGAAAGGCCAATGGATCAGATTCAGGC
 AACAAATCTTTGAATACAGACCAGACTACAGCATCCTCATCCCTTCTGCTGCTTCTCAGCCTCAAGTG
 TTCCAGGCTGGGACAAGTAAACCTTTGCACAGCAGTGAATCAATGTAATGCAGCTCCATTCCAGTCCA
 TGCAAACGGTGTCAATATGAATGCTCCAGTCCCTCCTGCTAATGAACCAGAAACGTTAAAACAACAGAG
 TCAGTACCAGGCCACTTATAACCAGAGTTTTCCAGTCCAGCTCACCAGTGAACAAACAGAGCTTCAA
 CAAGACCAACTGCAACCGTGGTTGGCACTTACCATGGATCCCAGGACCAGCCTCATCAAGTGCCTGGTA
 ACCACCAGCAACCCACAGCAGAACACTGGCTTTCCAGTAGCAGTCCAGCTTATTACAACAGTCCGTTGG
 GGTATCTCGAGGAGGTTCTCGTGGTGCCAGAGGCTTGATGAATGGATACAGGGGCCCTGCCAATGGATT
 AGAGGAGGATATGATGGTTACCGCCCTTATTCTCGAACACTCCAACAGTGGTTATTACAGTCTCAGT
 TCACTGCTCCCCGGGACTACTCTGGTTACCAGCGGGATGGATATCAGCAGAAATTTCAAGCAGGCTCTGG
 GCAGAGTGGACCACGGGGAGCCCCACGAGGTCGTGGAGGGCCCCAACAGCCCAACAGAGGGATGCCGCAA
 ATGAACACTCAGCAAGTGAAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_016739

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_016739.3</u> , <u>NP_058019.2</u>
RefSeq Size:	6181 bp
RefSeq ORF:	2124 bp
Locus ID:	53872
UniProt ID:	<u>Q60865</u>
Cytogenetics:	2 E2
Gene Summary:	<p>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 (PubMed:20516077). 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 (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). Both variants 1 and 2 encode the same isoform. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>