

Product datasheet for **MC220504**

Caprin1 (NM_001111292) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caprin1 (NM_001111292) 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: >MC220504 representing NM_001111292
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCTCGGCCACCAGCCACAGCGGAAGCGGCAGCAAATCGTCGGGACCGCCGCCCGTCCGGTTCCT
 CCGGGAGTGAGGCGGCCGCGGGCAGCTGCGCCGGCTTCTCAGCATCCGGCAACCGGCACCGGCCCGT
 CCAGACCAGGCCATGAAGCAGATTCTCGGCGTAAATCGACAAGAACTTCGGAACCTGGAGAAGAAAAAG
 GGTAAACTTGATGATTACCAGGAACGAATGAATAAAGGGGAAAGGCTCAATCAAGACCAGCTGGATGCCG
 TATCTAAGTACCAGGAAGTCACAAATAATTTGGAGTTTGCAAAGGAATTACAGAGGAGTTTCATGGCATT
 AAGTCAAGATATTCAGAAAAAATAAAGAAGACAGCACGTCGGGAACAGCTTATGAGAGAAGAAGCAGAA
 CAGAAGCGCTTAAAACTGTACTTGAGTTACAGTATGTATTGGATAAGCTGGGAGATGATGATGTGAGAA
 CAGATCTGAAACAAGTTTGAGTGGAGTGCCAATATTGTCTGAGGAGGAGTTGTCATTGCTGGATGAGTT
 CTACAAGCTCGTAGATCCTGAGCGTGACATGAGTTTAAAGTTAAATGAGCAGTATGAACATGCCCTCAATT
 CACTTGTGGGATTTGCTGGAAGGAAAGAAAAGCCTGTGTGGAACAACCTATAAAGCTCTAAAGGAAA
 TTGTTGAGCGTGTTCAGTCAAACACTTTTGATAGCACTCACAAATCATCAAAATGGGTTGTGTGAGGA
 GGAAGAGGCGGCTTCAGCGCCACAGTGGAGGACCAGGTAGCTGAAGCTGAACCTGAGCCAGCGGAAGAA
 TACACAGAGCAAAGTGAGGTTGAATCAACAGAGTATGTCAATAGGCAGTTCATGGCAGAAACACAGTTCA
 GCAGTGGTGAGAAGGAGCAAGTGGATGAGTGGACAGTTGAAACAGTTGAGGTTGTAACCTCACTCCAGCA
 GCAACCTCAGGCTGCGTCCCCTTCAGTCCCAGAGCCCCACTCTTTGACTCCAGTGGCTCAGTCAGATCCA
 CTTGTGAGAAGGCAGCGTGTACAAGATCTTATGGCACAATGAAGGGCCCTATAATTTACACAGGATT
 CAATGTTGGATTTGAAAAACAGACGCTTGATCCTGCCATTGTATCCGCACAGCCTATGAACCTACCCA
 GAACATGGATATGCCTCAGCTGGTTTGCCTCAGGTTCTTCTGAATCTAGACTTGCCCAATCTAATCAA
 GTTCTGTACAACCAGAAGCCACACAGGTTCTTTGGTTTCATCCACAAGTGAGGGGTATACAGCATCTC
 AGCCCTTGTACCAGCATCTCATGCTACGGAGCAGCGGCCGAGAAAGAGCCAATGGATCAGATTCAGGC
 AACAAATCTTTGAATACAGACCAGACTACAGCATCCTCATCCCTTCTGCTGCTTCTCAGCCTCAAGTG
 TTCCAGGCTGGGACAAGTAAACCTTTGCACAGCAGTGAATCAATGTAATGCAGCTCCATTCCAGTCCA
 TGCAAACGGTGTCAATATGAATGCTCCAGTCCCTCCTGCTAATGAACCAGAAACGTTAAAACAACAGAG
 TCAGTACCAGGCCACTTATAACCAGAGTTTTTCCAGTCAGCCTCACCAAGTGAACAAACAGAGCTTCAA
 CAAGACCAACTGCAACCGTGGTTGGCACTTACCATGGATCCCAGGACCAGCCTCATCAAGTGCCTGGTA
 ACCACCAGCAACCCACAGCAGAACACTGGCTTTCACGTAGCAGTCAAGCTTATTACAACAGTCTGGG
 GGTATCTCGAGGAGGTTCTCGTGGTGCCAGAGGCTTGATGAATGGATACAGGGGCCCTGCCAATGGATT
 AGAGGAGGATATGATGGTTACCGCCCTTATTCTCGAACACTCCAACAGTGGTTATTACAGTCTCAGT
 TCACTGCTCCCGGGACTACTCTGGTTACCAGCGGGATGGATATCAGCAGAATTTCAAGCAGGCTCTGG
 GCAGAGTGGACCAGGGGAGCCCCACGAGGTAATATATTGTGGTGG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001111292
- Insert Size:** 2079 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:

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_001111292.1](#), [NP_001104762.1](#)

RefSeq Size: 3508 bp

RefSeq ORF: 2079 bp

Locus ID: 53872

UniProt ID: [Q60865](#)

Cytogenetics: 2 E2

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 (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]

Transcript Variant: This variant (5) differs in the 5' UTR, 3' UTR and 3' coding region, compared to variant 1. The resulting isoform (c) has a distinct C-terminus and is shorter than isoform a. Both variants 4 and 5 encode the same isoform.