

Product datasheet for **MR217555**

Caprin1 (NM_001111292) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caprin1 (NM_001111292) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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)



[View online »](#)

ORF Nucleotide
Sequence:

>MR217555 representing NM_001111292
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCCCTCGGCCACCAGCCACAGCGGAAGCGGCAGCAAATCGTCGGGACCGCCGCCCGTCCGGTTCCT
 CCGGGAGTGAGGCGGCCGCCGGGCAGCTGCGCCGGCTTCTCAGCATCCGGCAACCGGCACCGGCCCGT
 CCAGACCAGGCCATGAAGCAGATTCTCGGCGTAAATCGACAAGAACTTCGGAACCTGGAGAAGAAAAAG
 GGTAAACTTGATGATTACCAGGAACGAATGAATAAAGGGGAAAGGCTCAATCAAGACCAGCTGGATGCCG
 TATCTAAGTACCAGGAAGTCACAAATAATTTGGAGTTTGCAAAGGAATTACAGAGGAGTTTCATGGCATT
 AAGTCAAGATATTCAGAAAAAATAAAGAAGACAGCACGTCGGGAACAGCTTATGAGAGAAGAAGCAGAA
 CAGAAGCGCTTAAAACTGTACTTGAGTTACAGTATGTATTGGATAAGCTGGGAGATGATGATGTGAGAA
 CAGATCTGAAACAAGTTTGAGTGGAGTGCCAATATTGTCTGAGGAGGAGTTGTCATTGCTGGATGAGTT
 CTACAAGCTCGTAGATCCTGAGCGTGACATGAGTTTAAAGTTAAATGAGCAGTATGAACATGCCTCAATT
 CACTTGTGGGATTTGCTGGAAGGAAAGAAAAGCCTGTGTGTGGAACAACCTATAAAGCTCTAAAGGAAA
 TTGTTGAGCGTGTTCAGTCAAACACTTTTGATAGCACTCACAAATCATCAAAATGGGTTGTGTGAGGA
 GGAAGAGGCGGCTTCAGCGCCACAGTGGAGGACCAGGTAGCTGAAGCTGAACCTGAGCCAGCGGAAGAA
 TACACAGAGCAAAGTGAGGTTGAATCAACAGAGTATGTCAATAGGCAGTTCATGGCAGAAACACAGTTCA
 GCAGTGGTGAGAAGGAGCAAGTGGATGAGTGGACAGTTGAAACAGTTGAGGTTGTAACCTCACTCCAGCA
 GCAACCTCAGGCTGCGTCCCCTTCAGTCCCAGAGCCCCACTCTTTGACTCCAGTGGCTCAGTCAGATCCA
 CTAATGTTGGATTTGAAAATCAGACGCTTGATCCTGCCATTGTATCCGCACAGCCTATGAACCTACCCA
 GAACATGGATATGCCTCAGCTGGTTTGCCCTCAGGTTTATTCTGAATCTAGACTTGCCCAATCTAATCAA
 GTTCTGTACAACCAGAAGCCACACAGGTTCTTTGGTTTCATCCACAAGTGAGGGGTATACAGCATCTC
 AGCCCTTGTAACAGCCATCTCATGCTACGGAGCAGCGGCCGAGAAAGGCCAATGGATCAGATTCAGGC
 AACAAATCTTTGAATACAGACCAGACTACAGCATCCTCATCCCTTCCTGCTGTTCTCAGCCTCAAGTG
 TTCCAGGCTGGGACAAGTAAACCTTTGCACAGCAGTGGAAATCAATGTAATGCAGCTCCATTCCAGTCCA
 TGCAAACGGTGTCAATATGAATGCTCCAGTCCCTCCTGCTAATGAACCAGAAACGTTAAAACAACAGAG
 TCAGTACCAGGCCACTTATAACCAGAGTTTTTCCAGTCCAGCCTCACCAGTGAACAAACAGAGCTTCAA
 CAAGACCAACTGCAAACGGTGGTTGGCACTTACCATGGATCCCAGGACCAGCCTCATCAAGTGCCTGGTA
 ACCACCAGCAACCCACAGCAGAACACTGGCTTTCACGTAGCAGTCCAGCTTATTACAACAGTCCGTGG
 GGTATCTCGAGGAGGTTCTCGTGGTGCCAGAGGCTTGATGAATGGATACAGGGGCCCTGCCAATGGATT
 AGAGGAGGATATGATGGTTACCGCCCTTATTCTCGAACACTCCAACAGTGGTTATTACAGTCTCAGT
 TCACTGCTCCCCGGGACTACTCTGGTTACCAGCGGGATGGATATCAGCAGAAATTCAGCGAGGCTCTGG
 GCAGAGTGGACCAGGGGAGCCCCACGAGGTAATATATTGTGGTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR217555 representing NM_001111292
Red=Cloning site Green=Tags(s)

MPSATSHSGSGSKSSGPPPPSGSSGSEAAAGAAAPASQHPATGTGAVQTEAMKQILGVIDKCLRNLKLEKK
 GKLLDDYQERMNKGERLNQDQLDAVSKYQEVNTNLEFAKELQRSFMLSQDIQKTIKKTARREQLMREEAE
 QKRLKTVLELQYVLDKLGDDVVRTDLKQGLSGVPILESEELSLLDEFYKLVDPERDMSLRLEQYEHASI
 HLWDLLEGKEKPVCGTTYKALKEIVERVFSNYFDSTHNHQNGLCEEEEEASAPTVEDQVAEAEPEPAEE
 YTEQSEVESTYVNRQFMAETQFSSGEKEQVDEWTVETVEVVNSLQQQPQAASPSVPEPHSLTPVAQSDP
 LVRRQRVQDLMAQMGPYNFIQDSMLDFENQTLDPAlVSAQPMNPTQNMMPQLVCPQVHSESRLAQSNQ
 VPVQPEATQVPLVSSTSEGYTASQPLYQPSHATEQRPQKEPMDQIQATISLNTDQTTASSSLPAASQPQV
 FQAGTSKPLHSSGINVNAAPFQSMQTVFNMAPVPPANEPETLKQSSQYQATYNQSFSSQPHQVEQTELQ
 QDQLQTVVGTYHGSQDQPHQVPGNHQPPQNTGFPRSSQPYNSRGVSRGGSRGARGLMNGYRGPANGF
 RGGYDGYRPSFSNTPNSGYSQSQFTAPRDYSGYQRDGYQQNFKRGSQSGPRGAPRGNILWW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001111292

ORF Size: 2076 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_001111292.1](#), [NP_001104762.1](#)

RefSeq Size: 3508 bp

RefSeq ORF: 2079 bp

Locus ID: 53872

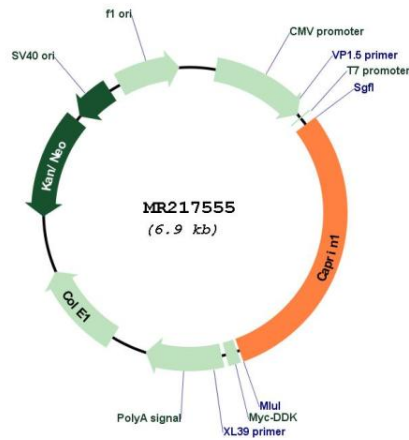
UniProt ID: [Q60865](#)

Cytogenetics: 2 E2

MW: 77.1 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 (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]

Product images:



Circular map for MR217555