

## Product datasheet for **MR217526**

### Caprin1 (NM\_001111289) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Caprin1 (NM_001111289) 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)



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ORF Nucleotide  
Sequence:

>MR217526 representing NM\_001111289  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCCCTCGGCCACCAGCCACAGCGGAAGCGGCAGCAAATCGTCGGGACCGCCGCCCGTCCGGTTCCT  
CCGGGAGTGAGGCGGCCGCGGGCAGCTGCGCCGGCTTCTCAGCATCCGGCAACCGGCACCGCGCCGT  
CCAGACCAGGCCATGAAGCAGATTCTCGGCGTAATCGACAAGAACTTCGGAACCTGGAGAAGAAAAAG  
GGTAAACTTGATGATTACCAGGAACGAATGAATAAAGGGGAAAGGCTCAATCAAGACCAGCTGGATGCCG  
TATCTAAGTACCAGGAAGTCACAAATAATTTGGAGTTTGCAAAGGAATTACAGAGGAGTTTCATGGCATT  
AAGTCAAGATATTCAGAAAAAATAAAGAAGACAGCACGTCGGGAACAGCTTATGAGAGAAGAAGCAGAA  
CAGAAGCGCTTAAAACTGTACTTGAGTTACAGTATGTATTGGATAAGCTGGGAGATGATGATGTGAGAA  
CAGATCTGAAACAAGTTTGAGTGGAGTGCCAATATTGTCTGAGGAGGAGTTGTCATTGCTGGATGAGTT  
CTACAAGCTCGTAGATCCTGAGCGTGACATGAGTTTAAAGTTAAATGAGCAGTATGAACATGCCTCAATT  
CACTTGTGGGATTTGCTGGAAGGAAAGAAAAGCCTGTGTGTGGAACAACCTATAAAGCTCTAAAGGAAA  
TTGTTGAGCGTGTTCAGTCAAACACTTTTGATAGCACTCACAAATCATCAAAATGGGTTGTGTGAGGA  
GGAAGAGGCGGCTTCAGCGCCACAGTGGAGGACCAGGTAGCTGAAGCTGAACCTGAGCCAGCGGAAGAA  
TACACAGAGCAAAGTGAGGTTGAATCAACAGAGTATGTCAATAGGCAGTTCATGGCAGAAACACAGTTCA  
GCAGTGGTGAGAAGGAGCAAGTGGATGAGTGGACAGTTGAAACAGTTGAGGTTGTAACCTCACTCCAGCA  
GCAACCTCAGGCTGCGTCCCCTTCAGTCCCAGAGCCCCACTCTTTGACTCCAGTGGCTCAGTCAGATCCA  
CTTGTGAGAAGGCAGCGTGTACAAGATCTTATGGCACAATGCAAGGGCCCTATAATTTACACAGGATT  
CAATGTTGGATTTTAAAAATCAGACGCTTGATCCTGCCATTGTATCCGCACAGCCTATGAACCTACCCA  
GAACATGGATATGCCTCAGCTGGTTGGCCCTCAGGTTTCTGAATCTAGACTTGCCCAATCTAATCAA  
GTTCTGTACAACCAGAAGCCACACAGGTTCTTTGGTTTCATCCACAAGTGAGGGGTATACAGCATCTC  
AGCCCTTGTAACAGCCATCTCATGCTACGGAGCAGCGGCCGAGAAAGGCCAATGGATCAGATTCAGGC  
AACAAATCTTTGAATACAGACCAGACTACAGCATCCTCATCCCTTCTGCTGCTTCTCAGCCTCAAGTG  
TTCCAGGCTGGGACAAGTAAACCTTTGCACAGCAGTGGAAATCAATGTAATGCAGCTCCATTCCAGTCCA  
TGCAAACGGTGTCAATATGAATGCTCCAGTCCCTCCTGCTAATGAACCAGAAACGTTAAAACAACAGAG  
TCAGTACCAGGCCACTTATAACAGAGTTTTTCCAGTCAAGCTCACCAGTGAACAAACAGAGCTTCAA  
CAAGACCAACTGCAACGGTGGTTGGCACTTACCATGGATCCCAGGACCAGCCTCATCAAGTGCCTGGTA  
ACCACCAGCAACCCACAGCAGAACACTGGCTTTCCAGTAGCAGTCAAGCTTATTACAACAGTCTGGG  
GGTATCTCGAGGAGGTTCTCGTGGTGCCAGAGGCTTGATGAATGGATACAGGGGCCCTGCCAATGGATT  
AGAGGAGGATATGATGGTTACCGCCCTTCACTCGAACACTCCAACAGTGGTTATTACAGTCTCAGT  
TCACTGCTCCCCGGGACTACTCTGGTTACCAGCGGGATGGATATCAGCAGAAATTTCAAGCAGGCTCTGG  
GCAGAGTGGACCACGGGGAGCCCCACGAGGTCGTGGAGGGCCCCAAGACCCAACAGAGGGATGCCGCAA  
ATGAACACTCAGCAAGTGAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR217526 representing NM\_001111289  
 Red=Cloning site Green=Tags(s)

MPSATSHSGSGSKSSGPPPPSGSSGSEAAAGAAAPASQHPATGTGAVQTEAMKQILGVIDKKLRNLEKKK  
 GKLDYQERMNKGRLNQDQLDAVSKYQEVNTNLEFAKELQRSFMLSQDIQKTIKKTARREQLMREEAE  
 QKRLKTVLELQYVLDKLGDDVVRTDLKQGLSGVPILSEEELSLDEFYKLVDPERDMSLRLEQYEHASI  
 HLWDLLEGKEKPVCGTTYKALKEIVERVFSNYFDSTHNSHQGLCEEEEEASAPTVEDQVAEAEPEPAEE  
 YTEQSEVESTHEYVNRQFMAETQFSSGEKEQVDEWTVETVEVVNSLQQQPQAASPSVPEPHSLTPVAQSDP  
 LVRQRVQDLMAQMGGPYNF IQDSMLDFENQTLDP AIVSAQPMNPTQNM DMPQLVCPQVHSE SRLAQS NQ  
 VPVQPEATQVPLVSSTSEGYTASQPLYQP SHATEQR PQKEPMDQIQATISLNTDQT TASSSLPAASQPQV  
 FQAGTSKPLHSSGINVNAAPFQSMQTVFNMNAPVPPANEPETLKQSSQYQATYNQSFSSQPHQVEQTELQ  
 QDQLQTVVGTYHGSQDQPHQVPGNHQQPPQNTGFPRSSQPYNSRGVSRGSGRGARGLMNGYRGPANGF  
 RGGYDGYRPSFSNTPNSGYSQSQFTAPRDYSGYQRDGYQQNFKRSGSGSPRGAPRGRGGPPRPNRGMGP  
 MNTQQVN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001111289

**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\\_001111289.1](#), [NP\\_001104759.1](#)

**RefSeq Size:** 6141 bp

**RefSeq ORF:** 2124 bp

**Locus ID:** 53872

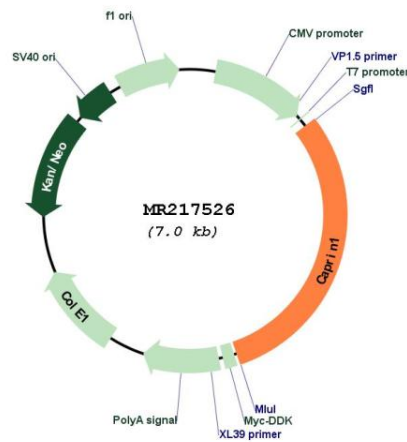
**UniProt ID:** [Q60865](#)

**Cytogenetics:** 2 E2

**MW:** 78.6 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 MR217526