

## Product datasheet for **MG217526**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Caprin1 (NM_001111289) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Caprin1
Synonyms:	AL022980; Caprin-1; Gpiap; Gpiap1; Mmgpip137; P137; rng105
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>MG217526 representing NM\_001111289  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCCTCGGCCACCAGCCACAGCGGAAGCGGCAGCAAATCGTCGGGACCGCCGCCCGTCCGGTTCTCT  
 CCGGGAGTGAGGCGGCCGCGCCGGGCAGCTGCGCCGGCTTCTCAGCATCCGGCAACCGGCACCGCGCCGT  
 CCAGACCAGGCCATGAAGCAGATTCTCGGCGTAAATCGACAAGAACTTCGGAACCTGGAGAAGAAAAAG  
 GGTAAACTTGATGATTACCAGGAACGAATGAATAAAGGGGAAAGGCTCAATCAAGACCAGCTGGATGCCG  
 TATCTAAGTACCAGGAAGTCACAAATAATTTGGAGTTTGCAAAGGAATTACAGAGGAGTTTCATGGCATT  
 AAGTCAAGATATTCAGAAAAAATAAAGAAGACAGCACGTCGGGAACAGCTTATGAGAGAAGAAGCAGAA  
 CAGAAGCGCTTAAAACTGTACTTGAGTTACAGTATGTATTGGATAAGCTGGGAGATGATGATGTGAGAA  
 CAGATCTGAAACAAGTTTGAGTGGAGTGCCAATATTGTCTGAGGAGGAGTTGTCATTGCTGGATGAGTT  
 CTACAAGCTCGTAGATCCTGAGCGTGACATGAGTTTAAAGTTAAATGAGCAGTATGAACATGCCTCAATT  
 CACTTGTGGGATTTGCTGGAAGGAAAGAAAAGCCTGTGTGTGGAACAACCTATAAAGCTCTAAAGGAAA  
 TTGTTGAGCGTGTTCAGTCAAACACTTTTGATAGCACTCACAAATCATCAAAATGGGTTGTGTGAGGA  
 GGAAGAGGCGGCTTCAGCGCCACAGTGGAGGACCAGGTAGCTGAAGCTGAACCTGAGCCAGCGGAAGAA  
 TACACAGAGCAAAGTGAGGTTGAATCAACAGAGTATGTCAATAGGCAGTTCATGGCAGAAACACAGTTCA  
 GCAGTGGTGAGAAGGAGCAAGTGGATGAGTGGACAGTTGAAACAGTTGAGGTTGTAACTCACTCCAGCA  
 GCAACCTCAGGCTGCGTCCCCTTCAGTCCCAGAGCCCCACTCTTTGACTCCAGTGGCTCAGTCAGATCCA  
 CAAATGTTGGATTTTGAATAACAGACGCTTGATCCTGCCATTGTATCCGCACAGCCTATGAACCTACCCA  
 GAACATGGATATGCCTCAGCTGGTTGCCCTCAGGTTCACTCTGAATCTAGACTTGCCCAATCTAATCAA  
 GTTCTGTACAACCAGAAGCCACACAGGTTCTTTGGTTTCATCCACAAGTGAGGGGTATACAGCATCTC  
 AGCCCTTGTAACAGCCATCTCATGCTACGGAGCAGCGGCCGAGAAAGGCCAATGGATCAGATTCAGGC  
 AACAAATCTTTGAATACAGACCAGACTACAGCATCCTCATCCCTTCCTGCTGTTCTCAGCCTCAAGTG  
 TTCCAGGCTGGGACAAGTAAACCTTTGCACAGCAGTGGAAATCAATGTAATGCAGCTCCATTCCAGTCCA  
 TGCAAACGGTGTCAATATGAATGCTCCAGTCCCTCCTGCTAATGAACCAGAAACGTTAAAACAACAGAG  
 TCAGTACCAGGCCACTTATAACAGAGTTTTTCCAGTCCAGCTCAGCCTCAGTGAACAAACAGAGCTTCAA  
 CAAGACCAACTGCAAACGGTGGTTGGCACTTACCATGGATCCCAGGACCAGCCTCATCAAGTGCCTGGTA  
 ACCACCAGCAACCCACAGCAGAACACTGGCTTTCACAGTAGCAGTCCAGCTTATTACAACAGTCCGTGG  
 GGTATCTCGAGGAGGTTCTCGTGGTGCCAGAGGCTTGATGAATGGATACAGGGGCCCTGCCAATGGATT  
 AGAGGAGGATATGATGGTTACCGCCCTTCACTCGAACACTCCAACAGTGGTTATTACAGTCTCAGT  
 TCACTGCTCCCCGGGACTACTCTGGTTACCAGCGGGATGGATATCAGCAGAAATTCAGCGAGGCTCTGG  
 GCAGAGTGGACCAGGGGAGCCCCACGAGGTCGTGGAGGGCCCCAAGACCCAACAGAGGGATGCCGCAA  
 ATGAACACTCAGCAAGTGAAT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG217526 representing NM\_001111289  
 Red=Cloning site Green=Tags(s)

MPSATSHSGSGSKSSGPPPPSGSSGSEAAAGAAAPASQHPATGTGAVQTEAMKQILGVIDKCLRNLKLEKK  
 GKLDYQERMNKGRLNQDQLDAVSKYQEVNLEFAKELQRSFALSQDIQKTIKKTARREQLMREEAE  
 QKRLKTVLELQYVLDKLGDDVVRTDLKQGLSGVPILSEELSLDEFYKLVDPERDMSLRNLNEQYEHASI  
 HLWDLLEGKEKPVCGTTYKALKEIVERVFQSNYFDSTHNSHQGLCEEEEEASAPTVEDQVAEAEPEPAEE  
 YTEQSEVESTYVNRQFMAETQFSSGEKEQVDEWTVETVEVVNSLQQQPQAASPSVPEPHSLTPVAQSDP  
 LVRRQRVQDLMAQMGGPYNFIQDSMLDFENQTLDPALVSAQPMNPTQNDMPQLVCPQVHSESLAQSNQ  
 VPVQPEATQVPLVSSTSEGYTASQPLYQPSHATEQRPQKEPMDQIQATISLNTDQTTASSSLPAASQPQV  
 FQAGTSKPLHSSGINVNAAPFQSMQTVFNMAPVPPANEPETLKQSSQYQATYNQSFSSQPHQVEQTELQ  
 QDQLQTVVGTYHGSQDQPHQVPGNHQPPQNTGFPRSSQPYNSRGVSRGSGRGARGLMNGYRGPANGF  
 RGGYDGYRPSFSNTPNSGYSQSQFTAPRDYSGYQRDGYQQNFKRGSQSGPRGAPRGRGGPPRPNRGMPP  
 MNTQQVN

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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

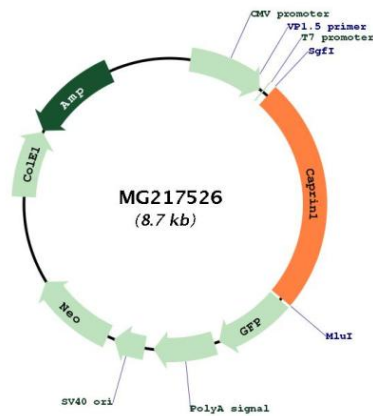
**Locus ID:** 53872

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

**Cytogenetics:** 2 E2

**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 MG217526