

Product datasheet for **MG217555**

Caprin1 (NM_001111292) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caprin1 (NM_001111292) 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)



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**ORF Nucleotide
Sequence:**

>MG217555 representing NM_001111292
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCTCGGCCACCAGCCACAGCGGAAGCGGCAGCAAATCGTCGGGACCGCCGCCCGTCCGGTTCCT
 CCGGGAGTGAGGCGGCCGGCCGGGCAGCTGCGCCGGCTTCTCAGCATCCGGCAACCGGCACCGGCCCGT
 CCAGACCAGGCCATGAAGCAGATTCTCGGCGTAAATCGACAAGAACTTCGGAACCTGGAGAAGAAAAAG
 GGTAAACTTGATGATTACCAGGAACGAATGAATAAAGGGGAAAGGCTCAATCAAGACCAGCTGGATGCCG
 TATCTAAGTACCAGGAAGTCACAAATAATTTGGAGTTTGCAAAGGAATTACAGAGGAGTTTCATGGCATT
 AAGTCAAGATATTCAGAAAAAATAAAGAAGACAGCACGTCGGGAACAGCTTATGAGAGAAGAAGCAGAA
 CAGAAGCGCTTAAAACTGTACTTGAGTTACAGTATGTATTGGATAAGCTGGGAGATGATGATGTGAGAA
 CAGATCTGAAACAAGTTTGAGTGGAGTGCCAATATTGTCTGAGGAGGAGTTGTCATTGCTGGATGAGTT
 CTACAAGCTCGTAGATCCTGAGCGTGACATGAGTTTAAAGTTAAATGAGCAGTATGAACATGCCTCAATT
 CACTTGTGGGATTTGCTGGAAGGAAAGAAAAGCCTGTGTGTGGAACAACCTATAAAGCTCTAAAGGAAA
 TTGTTGAGCGTGTTCAGTCAAACACTTTTGATAGCACTCACAAATCATCAAAATGGGTTGTGTGAGGA
 GGAAGAGGCGGCTTCAGCGCCACAGTGGAGGACCAGGTAGCTGAAGCTGAACCTGAGCCAGCGGAAGAA
 TACACAGAGCAAAGTGAGGTTGAATCAACAGAGTATGTCAATAGGCAGTTCATGGCAGAAACACAGTTCA
 GCAGTGGTGAGAAGGAGCAAGTGGATGAGTGGACAGTTGAAACAGTTGAGGTTGTAACCTCACTCCAGCA
 GCAACCTCAGGCTGCGTCCCCTTCAGTCCCAGAGCCCCACTCTTTGACTCCAGTGGCTCAGTCAGATCCA
 CATTGTGAGAAGGCAGCGTGTACAAGATCTTATGGCACAATGCAAGGGCCCTATAATTTACACAGGATT
 CAATGTTGGATTTTGAAAATCAGACGCTTGATCCTGCCATTGTATCCGCACAGCCTATGAACCTACCCA
 GAACATGGATATGCCTCAGCTGGTTGCCCTCAGGTTTCTGAATCTAGACTTGCCCAATCTAATCAA
 GTTCTGTACAACCAGAAGCCACACAGGTTCTTTGGTTTCATCCACAAGTGAGGGGTATACAGCATCTC
 AGCCCTTGTAACAGCCATCTCATGCTACGGAGCAGCGGCCGAGAAAGGCCAATGGATCAGATTCAGGC
 AACAAATCTTTGAATACAGACCAGACTACAGCATCCTCATCCCTTCCTGCTGTTCTCAGCCTCAAGTG
 TTCCAGGCTGGGACAAGTAAACCTTTGCACAGCAGTGGAAATCAATGTAATGCAGCTCCATTCCAGTCCA
 TGCAAACGGTGTCAATATGAATGCTCCAGTCCCTCCTGCTAATGAACCAGAAACGTTAAAACAACAGAG
 TCAGTACCAGGCCACTTATAACCAGAGTTTTTCCAGTCAGCCTCACCAAGTGAACAAACAGAGCTTCAA
 CAAGACCAACTGCAAACGGTGGTTGGCACTTACCATGGATCCCAGGACCAGCCTCATCAAGTGCCTGGTA
 ACCACCAGCAACCCACAGCAGAACACTGGCTTTCCACGTAGCAGTCAGCCTTATTACAACAGTCGTGG
 GGTATCTCGAGGAGGTTCTCGTGGTGCCAGAGGCTTGATGAATGGATACAGGGGCCCTGCCAATGGATT
 AGAGGAGGATATGATGGTTACCGCCCTTATTCTCGAACACTCCAACAGTGGTTATTACAGTCTCAGT
 TCACTGCTCCCCGGGACTACTCTGGTTACCAGCGGGATGGATATCAGCAGAAATTCAGCGAGGCTCTGG
 GCAGAGTGGACCAGGGGAGCCCCACGAGGTAATATATTGTGGTGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG217555 representing NM_001111292
 Red=Cloning site Green=Tags(s)

MPSATSHSGSGSKSSGPPPPSGSSGSEAAAGAAAPASQHPATGTGAVQTEAMKQILGVIDKKLRNLEKKK
 GKLLDDYQERMNKGERLNQDQLDAVSKYQEVNTNLEFAKELQRSFMALSQDIQKTIKKTARREQLMREEAE
 QKRLKTVLELQYVLDKLGDDVVRTDLKQGLSGVPILSEEELSLLDEFYKLVDPERDMSLRNLNEQYEHASI
 HLWDLLEGKEKPVCGTTYKALKEIVERVFQSNYFDSTHNSHONGLCEEEEEASAPTVEDQVAEAEPEPAEE
 YTEQSEVESTYVNRQFMAETQFSSGEKEQVDEWTVETVEVNSLQQQPQAASPSVPEPHSLTPVAQSDP
 LVRRQRVQDLMAQMGGPYNFIQDSMLDFENQTLDPAIVSAQPMNPTQNMMPQLVCPQVHSESRLAQSNQ
 VPVQPEATQVPLVSSTSEGYTASQPLYQPESHATEQRPQKEPMDQIQATISLNTDQTTASSSLPAASQPQV
 FQAGTSKPLHSSGINVNAAPFQSMQTVFNMAPVPPANEPETLKQSQYQATYNQSFSSQPHQVEQTELQ
 QDQLQTVVGTYHGSQDQPHQVPGNHQPPQNTGFPRSSQPYNSRQVSRGSRGARGLMNGYRGPANGF
 RGGYDGYRPSFSNTPNSGYSQSQFTAPRDYSGYQRDGYQQNFKRSGSQSGPRGAPRGNILWW

TRTRPLE - GFP Tag - V

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

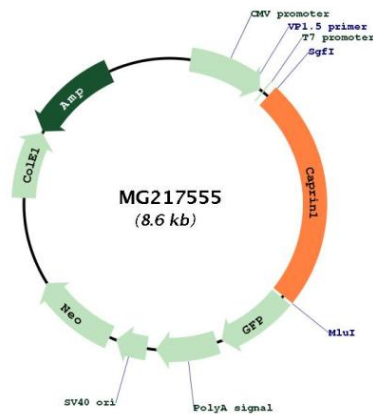
Locus ID: 53872

UniProt ID: [Q60865](#)

Cytogenetics: 2 E2

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 MG217555