

## Product datasheet for **RG217367**

### **GPIP137 (CAPRIN1) (NM\_203364) Human Tagged ORF Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                                  |
| Product Name:             | GPIP137 (CAPRIN1) (NM_203364) Human Tagged ORF Clone |
| Tag:                      | TurboGFP   |
| Symbol:                   | GPIP137  |
| Synonyms:                 | GPIAP1; GPIP137; GRIP137; M11S1; p137GPI; RNG105     |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-AC-GFP (PS100010)                              |
| E. coli Selection:        | Ampicillin (100 ug/mL)                               |



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**ORF Nucleotide Sequence:**

>RG217367 representing NM\_203364  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCCTCGGCCACCAGCCACAGCGGGAGCGGCAGCAAGTCGTCGGACCACCACCCTCGGGTTCCT  
 CCGGGAGTGAGGCGGCCGCGGGAGCCGGGCGCCGCGCGGCTTCTCAGCACCCCGCAACCGGCACCGG  
 CGCTGTCCAGACCAGGCCATGAAGCAGATTCTCGGGGTGATCGACAAGAACTTCGGAACCTGGAGAAG  
 AAAAAGGGTAAGCTTGATGATTACCAGGAACGAATGAACAAAGGGAAAGGCTTAATCAAGATCAGCTGG  
 ATGCCGTTTCTAAGTACCAGGAAGTCACAAATAATTTGGAGTTTGCAAAAGAATTACAGAGGAGTTTCAT  
 GGCCTAAGTCAAGATATTCAGAAAACAATAAAGAAGACAGCACGTCGGGAGCAGCTTATGAGAGAAGAA  
 GCTGAACAGAAACGTTTAAAACTGTACTTGAGCTACAGTATGTTTTGGACAAATGGGAGATGATGAAG  
 TCGGACTGACCTGAAACAAGGTTTGAATGGAGTGCCAAATATTGTCCGAAGAGGAGTTGTCATTGTTGGA  
 TGAACTTATAAGCTAGTAGACCCTGAACGGGACATGAGCTTGAGTTGAATGAACAGTATGAACATGCC  
 TCATTACCTGTGGACCTGCTGGAAGGGAAGGAAAAACCTGTATGTGGAACCCTATAAAGTTCTAA  
 AGGAAATTGTTGAGCGTGTTTTTAGTCAAACCTTTGACAGCACCCACAACCACCAGAATGGGCTGTG  
 TGAGGAAGAAGAGGCAGCCTCAGCACCTGCAGTTGAAGACCAGGTACCTGAAGCTGAACCTGAGCCAGCA  
 GAAGAGTACACTGAGCAAAGTGAAGTTGAATCAACAGAGTATGTAATAGACAGTTTCATGGCAGAAACAC  
 AGTTCACCAGTGGTGAAGGAGCAGGTAGATGAGTGGACAGTTGAAACGGTTGAGGTGGTAAATTCCT  
 CCAGCAGCAACCTCAGGCTGCATCCCTTCAGTACCAGAGCCCACTCTTTGACTCCAGTGGCTCAGGCA  
 GATCCCCTTGTGAGAAGACAGCGAGTACAAGACCTTATGGCACAATGCAGGGTCCCTATAATTTCATA  
 AGGATTCATGCTGGATTTTGAATCAGACACTTGCCTGCCATTGTATCTGCACAGCCTATGAATCC  
 AACACAAAACATGGACATGCCCCAGCTGGTTTGCCTCCAGTTCATTCTGAATCTAGACTTGCTCAGCCT  
 AATCAAGTTCCTGTACAACCAGAAGCGACACAGGTTCCCTTTGGTATCATCCACAAGTGAAGGGTACACAG  
 CATCTCAACCCTGTACCAGCCTTCTCATGCTACAGAGCAACGACCACAGAAGGAACCAATTGATCAGAT  
 TCAGGCAACAATCTTTAAATACAGACCAGACTACAGCATCATCATCCCTTCTGCTGCGTCTCAGCCT  
 CAAGTATTTAGGCTGGGACAAGCAAACCTTTACATAGCAGTGAATCAATGTAATGCAGCTCCATTCC  
 AATCCATGCAAACGGTGTCAATATGAATGCCCCAGTTCCTCCTGTTAATGAACCAGAACTTTAAACA  
 GCAAAATCAGTACCAGGCCAGTTATAACCAGAGCTTTTCTAGTCAGCCTACCAAGTAGAACAAACAGAG  
 CTTTCAGCAAGAACAGCTTCAAACAGTGGTTGGCACTTACCATGGTTCACCAGACCAGTCCCATCAAGTGA  
 CTGGTAACCACCAGCAGCCTCCTCAGCAGAACACTGGATTTCCACGTAGCAATCAGCCCTATTACAATAG  
 TCGTGGTGTGCTCGTGGAGGCTCCCGTGGTGTAGAGGCTTGATGAATGGATACCGGGGCCCTGCCAAT  
 GGATTCAGAGGAGGATATGATGGTTACCGCCTTCACTCTAACACTCCAAACAGTGGTTATACACAGT  
 CTCAGTTCAGTGTCCCGGGATTACTCTGGCTATCAACGGGATGGATATCAGCAGAATTTCAAGCGAGG  
 CTCTGGGCAGAGTGGACCACGGGAGCCCCACGAGGTAATATTTTGTGGTGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG217367 representing NM\_203364  
 Red=Cloning site Green=Tags(s)

MPSATSHSGSGSKSSGPPPPSGSSGSEAAAGAGAAAPASQHPATGTGAVQTEAMKQILGVIDKLRNLEK  
 KKGKLLDDYQERMNKGERLNDQQLDAVSKYQEVNNELEFAKELQRSFMALSQDIQKTIKKTARREQLMREE  
 AEQKRLKTVLELQYVLDKLDGDEVRTDLKQGLNGVPIILSEEELSLLEDFYKLVDPERDMSLRLENEQYEA  
 SIHLWDLLEGKEKPVCGTTYKVLKEIVERVFQSNYFDSTHNNHQNGLCEEEEAASAPAVEDQVPEAEPEPA  
 EEEYTEQSEVESTEYVNRQFMAETQFTSKEKEQVDEWTVETVEVNSLQQQPQAASPSVPEPHSLTPVAQA  
 DPLVRRQRVQDLMAQMGPYNFIQDSMLDFENQTLDPALVSAQPMNPTQNMMDMPQLVCPVHSESRLAQP  
 NQVPVQPEATQVPLVSSSTSEGYTASQPLYQPSHATEQRPQKEPIDQIQATISLNTDQTTASSSLPAASQP  
 QVFQAGTSKPLHSSGINVNAAPFQSMQTVFNMNAPVPPVNEPETLKQQNQYQASYNQSFSSQPHQVEQTE  
 LQQEQLQTVVGTYHGSPDQSHQVTGNHQPPQQNTGFPRSNQPYNSRGVSRGGSRGARGLMNGYRGPAN  
 GFRGGYGYRPSFSNTPNSGYTQSQFSAPRDYSGYQRDGYQQNFKRSGSQSGPRGAPRGNILWW

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_203364

**ORF Size:** 2082 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\\_203364.3](#)

**RefSeq Size:** 3553 bp

**RefSeq ORF:** 2085 bp

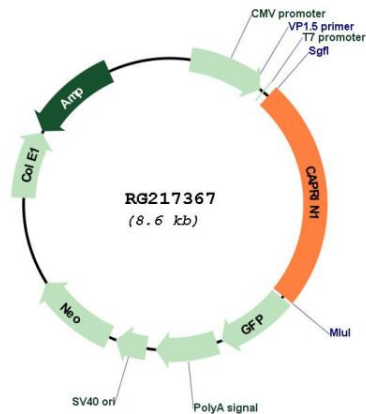
**Locus ID:** 4076

**UniProt ID:** [Q14444](#)

**Cytogenetics:** 11p13

**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. 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.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RG217367