

Product datasheet for **RG200300**

GPIP137 (CAPRIN1) (NM_005898) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPIP137 (CAPRIN1) (NM_005898) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG200300 representing NM_005898
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCTCGGCCACCAGCCACAGCGGGAGCGGCAGCAAGTCGTCGGACCACCACCCTCGGGTTCCT
 CCGGGAGTGAGGCGGCCCGGGAGCCGGGCGCCGCGCGGCTTCTCAGCACCCCGCAACCGGCACCGG
 CGCTGTCCAGACCAGGCCATGAAGCAGATTCTCGGGGTGATCGACAAGAACTTCGGAACCTGGAGAAG
 AAAAAGGGTAAGCTTGATGATTACCAGGAACGAATGAACAAAGGGGAAAGGCTTAATCAAGATCAGCTGG
 ATGCCGTTTCTAAGTACCAGGAAGTCACAAATAATTTGGAGTTTGCAAAAGAATTACAGAGGAGTTTCAT
 GGCCTAAGTCAAGATATTCAGAAAACAATAAAGAAGACAGCACGTCGGGAGCAGCTTATGAGAGAAGAA
 GCTGAACAGAAACGTTTAAAACTGTACTTGAGCTACAGTATGTTTTGGACAAATGGGAGATGATGAAG
 TCGGACTGACCTGAAACAAGGTTTGAATGGAGTGCCAAATATTGTCCGAAGAGGAGTTGTCATTGTTGGA
 TGAACTTATAAGCTAGTAGACCCTGAACGGGACATGAGCTTGAGTTGAATGAACAGTATGAACATGCC
 TCATTACCTGTGGGACCTGCTGGAAGGGAAGGAAAAACCTGTATGTGGAACCCTATAAAGTTCTAA
 AGGAAATTGTTGAGCGTGTTTTTCAGTCAAACCTTTGACAGCACCCACAACCACCAGAATGGGCTGTG
 TGAGGAAGAAGAGGCAGCCTCAGCACCTGCAGTTGAAGACCAGGTACCTGAAGCTGAACCTGAGCCAGCA
 GAAGAGTACACTGAGCAAAGTGAAGTTGAATCAACAGAGTATGTAATAGACAGTTTCATGGCAGAAACAC
 AGTTCACCAGTGGTGAAGGAGCAGGTAGATGAGTGGACAGTTGAAACGGTTGAGGTGGTAAATTCCT
 CCAGCAGCAACCTCAGGCTGCATCCCTTCAGTACCAGAGCCCACTCTTTGACTCCAGTGGCTCAGGCA
 GATCCCCTTGAGAAGACAGCGAGTACAAGACCTTATGGCACAATGCAGGGTCCCTATAATTTTCATAC
 AGGATTCATGCTGGATTTTGAATCAGACACTTGATCCTGCCATTGTATCTGCACAGCCTATGAATCC
 AACACAAAACATGGACATGCCCCAGCTGGTTTGCCTCCAGTTCATTCTGAATCTAGACTTGCTCAGCCT
 AATCAAGTTCCTGTACAACCAGAAGCGACACAGGTTCCCTTTGGTATCATCCACAAGTGAAGGGTACACAG
 CATCTCAACCCTGTACCAGCCTTCTCATGCTACAGAGCAACGACCACAGAAGGAACCAATTGATCAGAT
 TCAGGCAACAATCTTTAAATACAGACCAGACTACAGCATCATCATCCCTTCTGCTGCGTCTCAGCCT
 CAAGTATTTCAGGCTGGGACAAGCAAACCTTTACATAGCAGTGAATCAATGTAATGCAGCTCCATTCC
 AATCCATGCAAACGGTGTCAATATGAATGCCCCAGTTCCTCCTGTTAATGAACCAGAACTTTAAACA
 GCAAAATCAGTACCAGGCCAGTTATAACCAGAGCTTTTCTAGTCAGCCTACCAAGTAGAACAAACAGAG
 CTTTCAGCAAGAACAGCTTCAAACAGTGGTTGGCACTTACCATGGTTCCCAAGACCAGTCCCATCAAGTGA
 CTGGTAACCACCAGCAGCCTCCTCAGCAGAACACTGGATTTCCACGTAGCAATCAGCCCTATTACAATAG
 TCGTGGTGTGCTCGTGGAGGCTCCCGTGGTGTAGAGGCTTGATGAATGGATACCGGGGCCCTGCCAAT
 GGATTCAGAGGAGGATATGATGGTTACCGCCTTCTATTCTAACACTCCAAACAGTGGTTATACACAGT
 CTCAGTTCAGTGTCCCGGGATTACTCTGGCTATCAACGGGATGGATATCAGCAGAAATTCAGCGGAGG
 CTCTGGGAGAGTGGACCAGGGGAGCCCCACGAGGTCGTGGAGGGCCCCAAGACCCAACAGAGGGATG
 CCGCAATGAACACTCAGCAAGTGAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200300 representing NM_005898
 Red=Cloning site Green=Tags(s)

MPSATSHSGSGSKSSGPPPPSGSSGSEAAAGAGAAAPASQHPATGTGAVQTEAMKQILGVIDKLRNLEK
 KKGKLLDDYQERMNKGERLNDQQLDAVSKYQEVNNELEFAKELQRSFMALSQDIQKTIKKTARREQLMREE
 AEQKRLKTVLELQYVLDKLGDDVVRTDLKQGLNGVPIILSEEELSLLEDFYKLVDPERDMSLRLEQYEAHA
 SIHLWDLLEGKEKPVCGTTYKVLKEIVERVFQSNYFDSTHNNHQNGLCEEEEEASAPAVEDQVPEAEPEPA
 EEEYTEQSEVESTYVNRQFMAETQFTSKEKEQVDEWTVETVEVNSLQQQPQAASPSVPEPHTLTPVAQA
 DPLVRRQRVQDLMAQMGPYNF IQDSMLDFENQTLDPALVSAQPMNPTQNMMDMPQLVCPVHSESRLAQP
 NQVPVQPEATQVPLVSSSTSEGYTASQPL YQPSHATEQRPQKEPIDQIQATISLNTDQTTASSSLPAASQP
 QVFQAGTSKPLHSSGINVNAAPFQSMQTVFNMNAPVPPVNEPETLKQQNQYQASYNQSFSSQPHQVEQTE
 LQQEQLQTVVGT YHGSPDQSHQVTGNHQPPQQNTGFPRSNQPYNSRGVSRGGSRGARGLMNGYRGPAN
 GFRGGYDGYRPSFSNTPNSGYTQSQFSAPRDYSGYQRDGYQQNFKRSGSQSGPRGAPRGRGGPPRPNRGM
 PQMNTQQVN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005898

ORF Size: 2127 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_005898.5](#)

RefSeq Size: 5562 bp

RefSeq ORF: 2130 bp

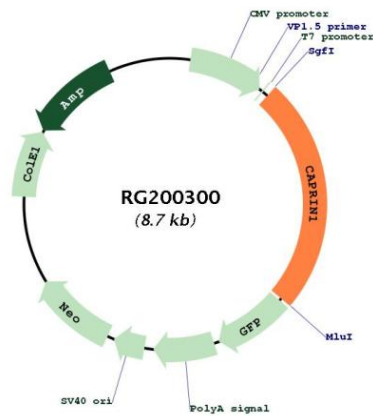
Locus ID: 4076

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 RG200300