

Product datasheet for **RC200300**

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:	Myc-DDK
Symbol:	GPIP137
Synonyms:	GPIAP1; GPIP137; GRIP137; M11S1; p137GPI; RNG105
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC200300 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCCTCGGCCACCAGCCACAGCGGGAGCGGCAGCAAGTCGTCGGACCGCCACCGCCGTCGGGTTCTCT
 CCGGGAGTGAGGCGGCCGCGGGAGCCGGGCGCCGCGCGGCTTCTCAGCACCCCGCAACCGGCACCGG
 CGCTGTCCAGACCAGGCCATGAAGCAGATTCTCGGGGTGATCGACAAGAACTTCGGAACCTGGAGAAG
 AAAAAGGGTAAGCTTGATGATTACCAGGAACGAATGAACAAAGGGAAAGGCTTAATCAAGATCAGCTGG
 ATGCCGTTTCTAAGTACCAGGAAGTCACAAATAATTTGGAGTTTGCAAAAGAATTACAGAGGAGTTTCAT
 GGCCTAAGTCAAGATATTCAGAAAACAATAAAGAAGACAGCACGTCGGGAGCAGCTTATGAGAGAAGAA
 GCTGAACAGAAACGTTTAAAACTGTACTTGAGCTACAGTATGTTTTGGACAAATGGGAGATGATGAAG
 TCGGACTGACCTGAAACAAGGTTTGAATGGAGTGCCAAATATTGTCCGAAGAGGAGTTGTCATTGTTGGA
 TGAACTTATAAGCTAGTAGACCCTGAACGGGACATGAGCTTGAGTTGAATGAACAGTATGAACATGCC
 TCATTACCTGTGGACCTGCTGGAAGGGAAGGAAAACTGTATGTGGAACCCTATAAAGTTCTAA
 AGGAAATTGTTGAGCGTGTTTTTAGTCAAACCTTTGACAGCACCCACAACCACCAGAATGGGCTGTG
 TGAGGAAGAAGAGGCAGCCTCAGCACCTGCAGTTGAAGACCAGGTACCTGAAGCTGAACCTGAGCCAGCA
 GAAGAGTACACTGAGCAAAGTGAAGTTGAATCAACAGAGTATGTAATAGACAGTTTCATGGCAGAAACAC
 AGTTCACCAGTGGTGAAGGAGCAGGTAGATGAGTGGACAGTTGAAACGGTTGAGGTGGTAAATTCCT
 CCAGCAGCAACCTCAGGCTGCATCCCTTCAGTACCAGAGCCCACTCTTTGACTCCAGTGGCTCAGGCA
 GATCCCCTTGAGAAGACAGCAGTACAAGACCTTATGGCACAATGCAGGGTCCCTATAATTTTCATAC
 AGGATTCATGCTGGATTTTGAATCAGACACTTGATCCTGCCATTGTATCTGCACAGCCTATGAATCC
 AACACAAAACATGGACATGCCCCAGCTGGTTTGCCTCCAGTTCATTCTGAATCTAGACTTGCTCAGCCT
 AATCAAGTTCCTGTACAACCAGAAGCGACACAGGTTCCCTTTGGTATCATCCACAAGTGAAGGGTACACAG
 CATCTCAACCCTGTACCAGCCTTCTCATGCTACAGAGCAACGACCACAGAAGGAACCAATTGATCAGAT
 TCAGGCAACAATCTTTAAATACAGACCAGACTACAGCATCATCATCCCTTCTGCTGCGTCTCAGCCT
 CAAGTATTTAGGCTGGGACAAGCAAACCTTTACATAGCAGTGAATCAATGTAATGCAGCTCCATTCC
 AATCCATGCAAACGGTGTCAATATGAATGCCCCAGTTCCTCCTGTTAATGAACCAGAACTTTAAACA
 GCAAAATCAGTACCAGGCCAGTTATAACCAGAGCTTTTCTAGTCAGCCTACCAAGTAGAACAAACAGAG
 CTTTCAGCAAGAACAGCTTCAAACAGTGGTTGGCACTTACCATGGTTCCCAAGACCAGTCCCATCAAGTGA
 CTGGTAACCACCAGCAGCCTCCTCAGCAGAACACTGGATTTCCACGTAGCAATCAGCCCTATTACAATAG
 TCGTGGTGTGCTCGTGGAGGCTCCCGTGGTGTAGAGGCTTGATGAATGGATACCGGGGCCCTGCCAAT
 GGATTCAGAGGAGGATATGATGGTTACCGCCTTCTATTCTAACACTCCAAACAGTGGTTATACACAGT
 CTCAGTTCAGTGTCCCGGGATTACTCTGGCTATCAACGGGATGGATATCAGCAGAAATTCAGCGGAGG
 CTCTGGGCAGAGTGGACCACGGGAGCCCCACGAGGTCGTGGAGGGCCCCAAGACCCAACAGAGGGATG
 CCGCAATGAACACTCAGCAAGTGAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200300 protein sequence
Red=Cloning site Green=Tags(s)

MPSATSHSGSGSKSSGPPPPSGSSGSEAAAGAGAAAPASQHPATGTGAVQTEAMKQILGVIDKCLRNLK
 KKGKLLDDYQERMNKGERLNDQQLDAVSKYQEVNNELEFAKELQRSFMALSQDIQKTIKKTARREQLMREE
 AEQKRLKTVLELQYVLDKLGDDVVRTDLKQGLNGVPIILSEEELSLLEDFYKLVDPERDMSLRLEQYEA
 SIHLWDLLEGKEKPVCGTTYKVLKEIVERVFQSNYFDSTHNSQGLCEEEEAASAPAVEDQVPEAEPEPA
 EEYTEQSEVESTYVNRQFMAETQFTSKEKEQVDEWTVETVEVNSLQQQQAASPSVPEPHSLTPVAQA
 DPLVRRQRVQDLMAQMGPYNF IQDSMLDFENQTLDPALVSAQPMNPTQNMMDMPQLVCPVHSESRLAQP
 NQVPVQPEATQVPLVSSTSEGYTASQPLYQPSHATEQRPQKEPIDQIQATISLNTDQTTASSSLPAASQP
 QVFQAGTSKPLHSSGINVNAAPFQSMQTVFNMAPVPPVNEPETLKQNNQYQASYNQSFSSQPHQVEQTE
 LQQEQLQTVVGTYHGSPDQSHQVTGNHQPPQNTGFPRSNQPYNSRGVSRGSSRGARGLMNGYRGPAN
 GFRGGYGYRPSFSNTPNSGYTQSQFSAPRDYSGYQRDGYQQNFKRSGSQSGPRGAPRGRGGPPRPNRGM
 PQMNTQQVN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6237_d09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_005898

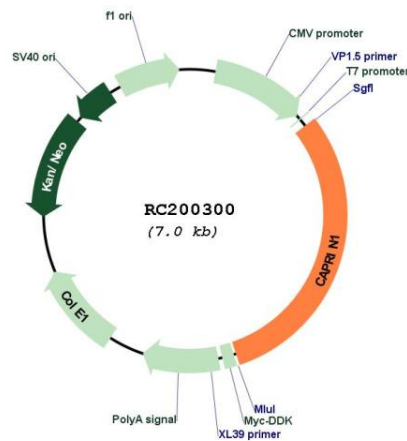
ORF Size: 2127 bp

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](#)

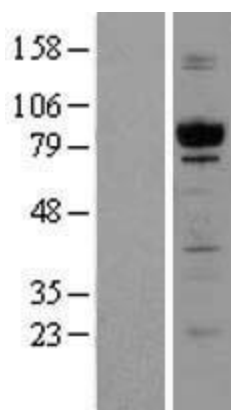
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none"> 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_005898.5</u>
RefSeq Size:	5562 bp
RefSeq ORF:	2130 bp
Locus ID:	4076
UniProt ID:	<u>Q14444</u>
Cytogenetics:	11p13
MW:	78.4 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. 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]

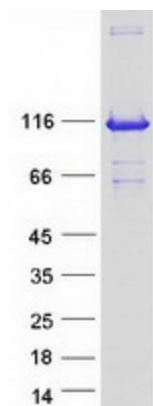
Product images:



Circular map for RC200300



Western blot validation of overexpression lysate (Cat# [LY416994]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200300 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CAPRIN1 protein (Cat# [TP300300]). The protein was produced from HEK293T cells transfected with CAPRIN1 cDNA clone (Cat# RC200300) using MegaTran 2.0 (Cat# [TT210002]).