

Product datasheet for **RC210936**

GRASP1 (GRIPAP1) (NM_020137) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRASP1 (GRIPAP1) (NM_020137) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GRASP1
Synonyms:	GRASP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC210936 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCAAGCTCTGTCTGAGGAGGAGTTTCAGCGGATGCAGGCTCAGCTCCTGGAACCCGGACAAACA
 ACTACCAGCTTTCAGATGAACTACGCAAGAATGGTGTGAACTACCAGTCTTCACAGAAGGTCGCCTA
 CTTGGATAAAGGAGTTCAGCAAAGCTCAGAAAGCACTGAGCAAGAGCAAGAAGCTCAGGAAGTCGAGGTA
 TTGCTGAGTGAATAAGATGCTGCAGGCAAGCTGCACAGCCAGGAGGAGGACTCCGTTTGCAGAACA
 GCACACTAATGGCCGAGTTCAGCAAGCTCTGCAGCCAGATGGAACAGCTGGAGCAAGAGAACCAGCAACT
 GAAGGAGGGGGCTGCAGGAGCAGGGGTTGCCAAGCTGGGCCCTCGTGGATGGGAGCTGCTGAGGCTA
 CAGGCTGAAAACACAGCCTTGCAGAAGAAGCTGGCAGCCCTGCAGAACGCTATGGGAAAGAAGCCGGGA
 AGTTCTCAGCTGTCAGTGAAGGCGCAGGGGATCCCCAGGGGGCCCGCCCCACCGTCTGGCCCCAT
 GCCGTTGGCAGAGGTGGAGCTGAAATGGGAAATGGAGAAAGAGGAGAAGAGATTGCTCTGGGAACAGCTG
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 AACTGAAAAAGAAACAAGAAAGTTTTTGCCGCTCTGCAGACAGAAAAGGAGACTCTGTTTAAATGACAGCAG
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 TGGAACATGCAGCAGCTTTGCGGGCCCTACAAGATCAGGTATCCATCCAGAGTGCAGATGCACAGGAACA
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 AAGGAGGAGGAGTACAGGATGTACGGGATCAGCTCGAGCAGGCCAGGAGGAGCGGGACTGCCACCTGA
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 CGACTGCAGGACATCCTCACTAACAGCAAGAGCCGCTCAGGCCTTGAGGAGCTGGTTCTCTCAGAGATGA
 ACTACCAAGCCGGACCCAGACAGGGGACAGCAGTAGCATCTCCTCCTTCCAGTACCGGGAGATCTTGCG
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 AGCTGCAGAACATGCTGGAGGAGCAGCTACCAAGAATATGCACTTGCACAAGGATATGGAAGTTCTGTC
 CCAGGAAATTGTGCGGCTCAGCAAGGAGTGCCTGGGGCCCTCTGACCCAGACCTAGAGCCAGGAGAAACC
 AGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC210936 protein sequence
 Red=Cloning site Green=Tags(s)

MAQALSEEFQRMQAQLLELRTNNYQLSDELKNGVELTSLRQKVAYLDKEFSKAQKALSKSKKAQEVEV
 LLSENEMLQAKLHSQEEDFRLQNSTLMAEFSKLC SQMEQLEQENQQLKEGAAGAGVAQAGPLVDGELLRL
 QAENTALQKNVAALQERYGKEAGKFSAVSEGQDPPGGPAPT V LAPMPLAEVELKWEMEKEEKRLLEWQL
 QGLESSKQAETSRLQEELAKLSEKLKKKQESFCRLQTEKETL FNDSRNKIEELQQRKEADHKAQLARTQK
 LQQELEAANQSLAELRDQRQGERLEHAAALRALQDQVSIQSADAQEQVEGLLAENNALRTSLAALEQIQT
 AKTQELNMLREQTTGLAAELQQQQA EYEDLMGQKDDLNSQLQESLRANSRLLEQLQEIGQEKEQLTQELQ
 EARKSAEKRKAMLDLAME TLQEKSQHKEELGAVRLRHEKEVLGVRARYERELRELHEDKKRQEELRGQ
 IREEKARTRELETLQQTVEELQAQVHMDGAKGWFERRLKEAEE SLQQQQEQEEALKQCREQHAAELKG
 KEEELQDVRDQLEQAQEERDCHLKTISL KQEVKDTV D GQRILEKKGSAALKDLKRQLHLERKRADKLE
 RLQDIL TNSKSRSGLEELV L SEMNSPRTQTGDSSSISSFYREILREKESAVPARSLSSSPQAQPPRP
 AELSDEEVAELFQRLAETQQEKWMLEEKVKHLEVSSASMAEDLCRKS AIIETYVMSRIDVSVAAAGHTDR
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 S

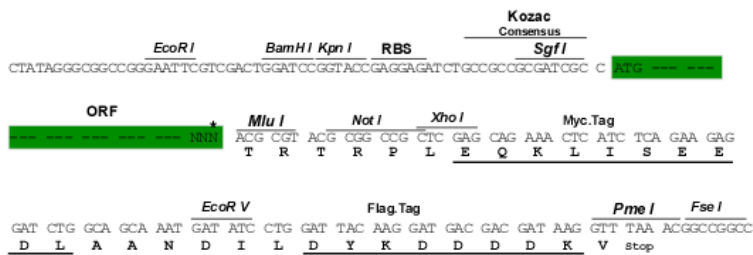
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6008_g08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

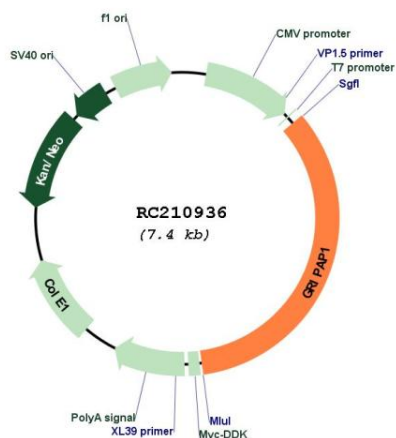
Cloning sites used for ORF Shuttling:



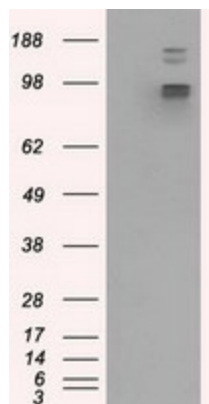
* The last codon before the Stop codon of the ORF

ACCN:	NM_020137
ORF Size:	2523 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.
RefSeq:	NM_020137.3 , NP_064522.3
RefSeq Size:	3052 bp
RefSeq ORF:	2526 bp
Locus ID:	56850
UniProt ID:	Q4V328
Cytogenetics:	Xp11.23
Protein Families:	Druggable Genome
MW:	96 kDa
Gene Summary:	This gene encodes a guanine nucleotide exchange factor for the Ras family of small G proteins (RasGEF). The encoded protein interacts in a complex with glutamate receptor interacting protein 1 (GRIP1) and plays a role in the regulation of AMPA receptor function. [provided by RefSeq, Aug 2013]

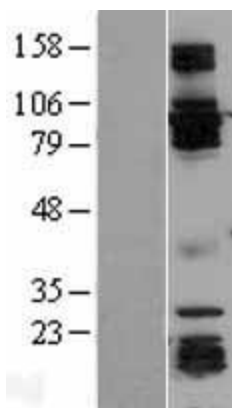
Product images:



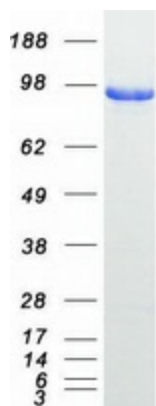
Circular map for RC210936



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY GRIPAP1 (Cat# RC210936, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GRIPAP1 (Cat# [TA500876]). Positive lysates [LY402754] (100ug) and [LC402754] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402754]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210936 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GRIPAP1 protein (Cat# [TP310936]). The protein was produced from HEK293T cells transfected with GRIPAP1 cDNA clone (Cat# RC210936) using MegaTran 2.0 (Cat# [TT210002]).