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Product datasheet for RC236649

GRAP2 (NM_001291828) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRAP2 (NM_001291828) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GRAP2
Synonyms:	GADS; GRAP-2; GRB2L; GRBLG; GrbX; Grf40; GRID; GRPL; Mona; P38
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC236649 representing NM_001291828 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGTTTCACGAAGGCCTCTCTCGACACCAGGCAGAGAACTTACTCATGGGCAAGGAGGTTGGCTTCTTC ATCATCCGGGCCAGCCAGAGCTCCCCAGGGGACTTCTCCATCTCTGTCAGGGTCACCGGGGCAACAGCCT GGACCGGAGGTCCCAGGGAGGCCCACACCTCAGTGGGGCTGTGGGAGAAGAAATCCGACCTTCGATGAAC CGGAAGCTGTCGGATCACCCCCCGACCCTTCCCCTGCAGCAGCACCAGCACCAGCCACAGCCTCCGCAAT ATGCCCCAGCGCCCCAGCAGCTGCAGCAGCCCCCACAGCAGCGATATCTGCAGCACCACCATTTCCACCA GGAACGCCGAGGAGGCAGCCTTGACATAAATGATGGGCATTGTGGCACCGGCTTGGGCAGTGAAATGAAT GCGGCCCTCATGCATCGGAGACACACAGACCCAGTGCAGCTCCAGGCGGCAGGGCGAGTGCGGTGGGCCC GGGCGCTGTATGACTTTGAGGCCCTGGAGGATGACGAGCTGGGGTTCCACAGCGGGGAGGTGGTGGAGGT CCTGGATAGCTCCAACCCATCCTGGTGGACCGGCCGCCTGCACAACAAGCTGGGCCTCTTCCCTGCCAAC TACGTGGCACCCATGACCCGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

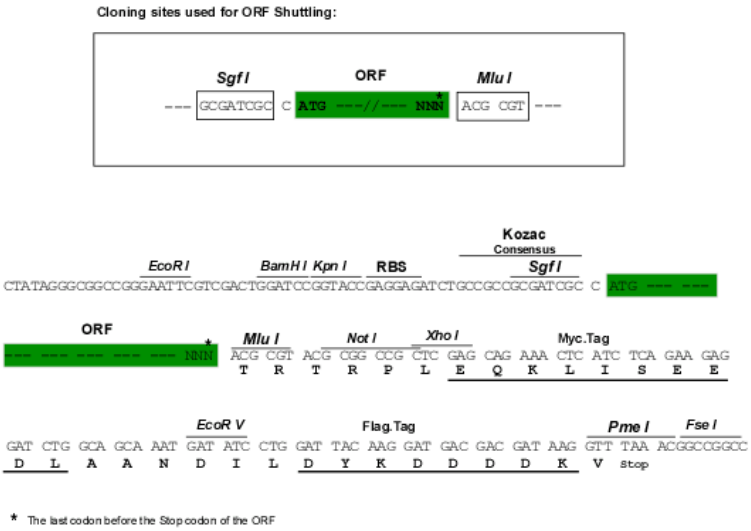
>RC236649 representing NM_001291828
Red=Cloning site Green=Tags(s)

MVSRRPLSTPGRELTHGQGGWLLHHPGQPELPRGLLHLCQGHRGNSLDRRSQGGPHLSGAVGEEIRPSMN
RKLSDHPPTLPLQQHQHQPQPPQYAPAPQQLQQPPQQRYLQHHHFHQERRGGSLDINDGHCGTGLGSEMN
AALMHRRHTDPVQLQAAGRVRWARALYDFEALEDDELGFHSGEVVEVLDSSNPSWWTGRLHNKLGLFPAN
YVAPMTR

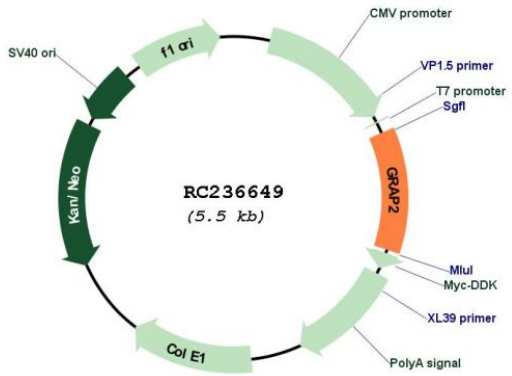
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001291828

ORF Size: 651 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_001291828.2
RefSeq Size:	3138 bp
RefSeq ORF:	654 bp
Locus ID:	9402
UniProt ID:	O75791
Cytogenetics:	22q13.1
Protein Families:	Druggable Genome
Protein Pathways:	T cell receptor signaling pathway
MW:	24.8 kDa
Gene Summary:	This gene encodes a member of the GRB2/Sem5/Drk family. This member is an adaptor-like protein involved in leukocyte-specific protein-tyrosine kinase signaling. Like its related family member, GRB2-related adaptor protein (GRAP), this protein contains an SH2 domain flanked by two SH3 domains. This protein interacts with other proteins, such as GRB2-associated binding protein 1 (GAB1) and the SLP-76 leukocyte protein (LCP2), through its SH3 domains. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Apr 2014]