

Product datasheet for **RG237488**

GRAP2 (NM_001291824) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRAP2 (NM_001291824) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GRAP2
Synonyms:	GADS; GRAP-2; GRB2L; GRBLG; GrbX; Grf40; GRID; GRPL; Mona; P38
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237488 representing NM_001291824. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
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GTTTTGAAGATTTTAAGTAACCAAGAGGAGTGGTTTAAGCGGAGCTTGGGAGCCAGGAAGGATATGTG
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CGGAGGTCCCAGGGAGGCCACACCTCAGTGGGGCTGTGGGAGAAGAAATCCGACCTTCGATGAACCGG
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CGGGCGTGTATGACTTTGAGCCCTGGAGGATGACGAGCTGGGTTCCACAGCGGGGAGGTGGTGGAG
GTCCTGGATAGCTCCAACCCATCTGGTGACCGGCCCTGCACAACAAGCTGGGCCTCTCCCTGCC
AACTACGTGGCACCCATGACCCGA
ACCGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237488
 Blue=ORF Red=Cloning site Green=Tag(s)

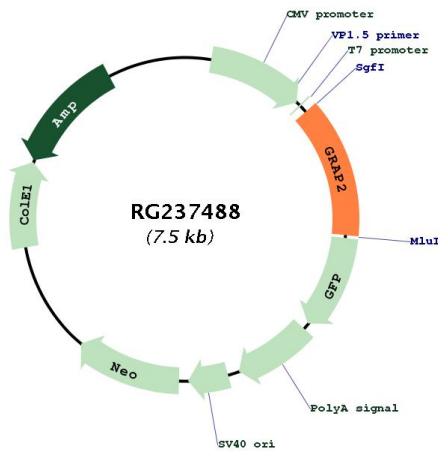
MEAVAKFDFTASGEDELSFHTGDVLKILSNQEEWFKAELGSQEGYVPKNFIDIQFPKWFHEGLSRHQAE
 NLLMGKEVGFIIIRASQSSPGDFSISVRHEDDVQHFVMDNKGNYFLWTEKFPSLNKLVDYYRTNSIS
 RQKQIFLDRDRTREDQGHRGNLDRRSQGGPHLSGAVGEEIRPSMNRKLSHPPTLPLQQHQHPQPQY
 APAPQLQPPQQRYLQHHHFHQERRGSLDINDGHCGTGLGSEMNAALMHRRTDVPVQLQAAGRVRWA
 RALYDFEALEDDELGFHSGEVVELDSSNPSWWTGRLHNKLG LFPANYVAPMTR
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001291824

ORF Size:	990 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).
RefSeq:	NM_001291824.2
RefSeq Size:	3528 bp
RefSeq ORF:	993 bp
Locus ID:	9402
UniProt ID:	O75791
Cytogenetics:	22q13.1
Protein Families:	Druggable Genome
Protein Pathways:	T cell receptor signaling pathway
MW:	37.9 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]