

Product datasheet for **RG208908**

GRAP (NM_006613) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRAP (NM_006613) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GRAP
Synonyms:	DFNB114
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208908 representing NM_006613 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTCCGTGGCCCTGTACAGCTTTCAGGCTACAGAGAGCGACGAGCTGGCCTTCAACAAGGGAGACA
CACTCAAGATCCTGAACATGGAGGATGACCAGAAGTGGTACAAGGCCGAGCTCCGGGGTGTGAGGGATT
TATCCCAAGAACTACATCCGCGTCAAGCCCCATCCGTGGTACTCGGGCAGGATTTCCCGGCAGCTGGCC
GAAGAGATTCTGATGAAGCGGAACCATCTGGGAGCCTTCTGATCCGGGAGAGTGAGAGCTCCCCAGGGG
AGTTCTCTGTGTCTGTGAACTATGGAGACCAGGTGCAGCACTTCAAGGTGCTGCGTGAGGCCTCGGGGAA
GTACTTCTGTGGGAGGAGAAGTTCAACTCCCTCAACGAGCTGGTCGACTTCTACCGCACCACCACCATC
GCCAAGAAGCGGCAGATCTTCTGCGCGACGAGGAGCCCTTGCTCAAGTCACTGGGGCCTGCTTTGCC
AGGCCAGTTTGACTTCTCAGCCCAGGACCCCTCGCAGCTCAGCTTCCGCCGTGGCGACATCATTGAGGT
CCTGGAGCGCCAGACCCCACTGGTGGCGGGGCCGCTCTGCGGGCGCCTTGGCTTCTCCACGGAGT
TACGTGCAGCCCGTGCACCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208908 representing NM_006613
 Red=Cloning site Green=Tags(s)

MESVALYSFQATESDELAFNKGDTLKILNMEDDQNWYKAELRGVEGFIPKNYIRVKPHPWYSGRISRQLA
 EEILMKRNHLGAFLIRESESSPGEFSVSVNYGDQVQHFVLRASGKYFLWEEKFNSLNELVDFYRTTTI
 AKKRQIFLRDEEPLLKSPGACFAQAQDFDFAQDPDPSQLSFRRGDIIEVLERPDPHWWRGRSCGRVGFPPRS
 YVQPVHL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006613

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_006613.4](#)

RefSeq Size: 2089 bp

RefSeq ORF: 654 bp

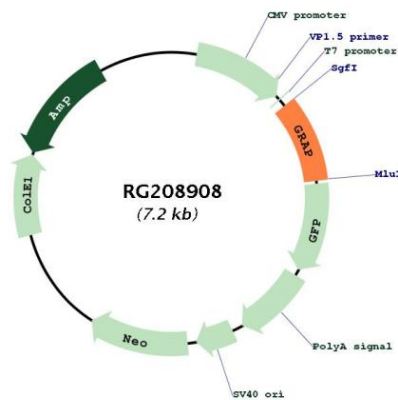
Locus ID: 10750

UniProt ID: [Q13588](#)

Cytogenetics: 17p11.2

Gene Summary: This gene encodes a member of the GRB2/Sem5/Drk family and functions as a cytoplasmic signaling protein which contains an SH2 domain flanked by two SH3 domains. The SH2 domain interacts with ligand-activated receptors for stem cell factor and erythropoietin, and facilitates the formation of a stable complex with the BCR-ABL oncoprotein. This protein also associates with the Ras guanine nucleotide exchange factor SOS1 (son of sevenless homolog 1) through its N-terminal SH3 domain. In general, it couples signals from receptor and cytoplasmic tyrosine kinases to the Ras signaling pathway. [provided by RefSeq, Jul 2012]

Product images:



Circular map for RG208908