

Product datasheet for **SC126093**

GRAP (NM_006613) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRAP (NM_006613) Human Untagged Clone
Tag:	Tag Free
Symbol:	GRAP
Synonyms:	DFNB114
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_006613 edited
CGACTGCAGAGGAAGCAGGAAGCTGTCCGCCAGCTCTGAGCCCAGCTGTGGAGCCCCG
AGCAGCGGCATGGAGTCCGTGGCCCTGTACAGCTTTCAGGCTACAGAGAGCGACGAGCTG
GCCTTCAACAAGGGAGACACACTCAAGATCCTGAACATGGAGGATGACCAGAAGTGGTAC
AAGGCCGAGCTCCGGGTGTGAGGGATTTATCCCAAGAACTACATCCGCGTCAAGCCC
CATCCGTGGTACTCGGGCAGGATTTCCCGCAGCTGGCCGAAGAGATTCTGATGAAGCGG
AACCATCTGGGAGCCTTCTGTATCCGGGAGAGTGAGAGCTCCCCAGGGGAGTTCTCTGTG
TCTGTGAACTATGGAGACCAGGTGCAGCACTTCAAGGTGCTGCGTGAGGCCTCGGGGAAG
TACTTCTGTGGGAGGAGAAGTTCAACTCCCTCAACGAGCTGGTGCAGTTCTACCGCACC
ACCACCATCGCCAAGAAGCGGCAGATCTTCTGCGCGACGAGGAGCCCTTGTCAAGTCA
CCTGGGGCCTGCTTGGCCAGGCCAGTTTGACTTCTCAGCCCAGGACCCCTCGCAGCTC
AGCTTCCGCCGTGGCGACATCATTGAGGTCTGGAGCGCCAGACCCCACTGGTGGCGG
GGCCGGTCTGCGGGCGGTTGGCTTCTCCACGGAGTTACGTGCAGCCCGTGCACCTG
TGAGCAGCCCGGGCCGATCTGGCCAACGGGCCTTTTTACAGGAACTGAGGTCCAGAGA
GGACATGGACACCCCACTCTGTGAGAGTACACGGGGCTCAGTGGACGGCCTTGGACT
GAACGTGGGCTCCTAACTGCCTCCGGCCCTCTGCACAACTGGGATGGCCAGGTCCTCC
CAGCAAGGGTACCAGCAAGGGTAGCTCCGGGGCTTCTGGCTGGTTGCTTTCCATTGGC
TGCCAGCTGTGTGACACCACAGGGCGGAGTCTGTGGAGGCCCGCCACCTCCTCTTGTG
AATGGCCCATCTGCCAGGAAGTTGAGGACTCCAGGTTTACCCTACTGGAGGCTCAAC
CTAAGGAACCTGGCCATGGTGGGTGGTTACCTTGGGCTGACCACCACTGGGCTGC
CTGCCCCCTCCCTAAAAGGCCCTGGAGTTGTTACGGCTGTTGGGAGGTGGCTCAGCCTC
GAAGGACAGACTGCACACCTGTTGACCTAACTCACTGGACAGACTCCAGGTGGACACCA
ACTCCTCAACAGCCCCATGACTTCAGCTCCACCTGGGGCACCCAGCACCCACACAGGG
CTAGAGGCCCTAAGACCCTGAAAAAGGGCGGGCAGTAGGGAAGGTGGAGGCACACTCCT
CTTCTGTTGGACAGGTGAGCTCTGAGGGCAAGCCCTGGGCCAGCCACGCAGAGACCCTG
GCTGCCCTGGCTCTTGTGTTAGGCCAGGTTCTGCCAGACCGGGGCCAGCAGAGC
TCTCAGGAGGCTGAGAAACCTCCAGGGCAGACAGAAAGTTGGGGCCAGAGCTAGGTTTTA
GAGATCTACAGGATCCACATGGGACGGCTACCTAGGTGGGGCACGGCCCTACCCGAG
AACAGGAGGGTCTCCAGAGAATGTGCCATGATCAGGGATATGAGCAGGGCTGCCCAGA
GCCTGGGCACCTTTGGGAGAGGGAAAAGTGAGGTGGGACTTGAAAGGCTTTGAACGCCA
GGCTGATGGTTGAGGGATGGTGGGCAGGGAGGGGCGAAGAGGCTCCCTCTGGCATT
GGGAGCTGGTGGGTGGAGGGAGGAGCCCTTGGAGGTGGCTGCAGTCCCTTAAATGGGGGC
CTTGCTCTGGGCATGTGGGGCTTCTCCTCCATCCAGAGCTGGCCCAAGACCTTAGAAC
CTGAGTGTGGCAAACTCACTGCTCCTGACCCAGCCTGTGTATTCAAAACGAAAACAGT
AAAACCAACATCAGGATGTCCGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA
  
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_006613 unedited NGGCGTCTGATTTGTA AACCATATATAGGCGGCCGNAATTC CCGGATCGACTGCAGAGGAAGCAGGAAGCTGTCCGCCAGCTCTGAGCCAGCTGCTGGAGCCCCGAGCAGCGGCA TGGAGTCCGTGGCCCTGTACAGCTTTCAGGCTACAGAGAGCGACGAGCTGGCCTTCAACA AGGGAGACACACTCAAGATCCTGAACATGGAGGATGACCAGA AACTGGTACAAGGCCGAGC TCCGGGGTGTGAGGGATTTATCCCAAGAACTACATCCGCGTCAAGCCCCATCCGTGGT ACTCGGGCAGGATTTCCCGCAGCTGGCCGAAGAGATTCTGATGAAGCGGAACCATCTGG GAGCCTTCTGATCCGGGAGAGTGAGAGCTCCCCAGGGGAGTTCTCTGTGTCTGTGAACT ATGGAGACCAGGTGCAGCACTTCAAGGTGCTGCGTGAGGCCTCGGGGAAGTACTTCTGTG GGGAGGAGAAGTTCAACTCCCTCAACGAGCTGGTGCAGTCTACCGCACCACCACCATCG CCAAGAAGCGGCAGATCTTCTGCGCGACGAGGAGCCCTTGCTCAAGTCACCTGGGGCT GCTTTGCCAGGCCAGTTTGACTTCTCAGCCCAGGACCCTCGCAGCTCAGTTCCGCC GTGGCGACATCATTGAGGTCTGGAGCGCCAGACCCCACTGGTGGCGNGCCGGTCTCT GNCGGCGGTTGGCTTCTCCACGGAGTTACGTGCAGCCCGTGCACCTGTGAGCAGCCC CGCGGCCGATCTGGCCAACGGGCCTTTTTACGGAAGTNGAGTCCAGAGAGACATGGACA CCCCCAGCTCTGTGATCACACGGGGCTCAGTA
Restriction Sites:	NotI-NotI
ACCN:	NM_006613
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_006613.3</u> , <u>NP_006604.1</u>
RefSeq Size:	2089 bp
RefSeq ORF:	654 bp
Locus ID:	10750
UniProt ID:	<u>Q13588</u>
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]