

Product datasheet for **SC125840**

GRAP2 (NM_004810) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRAP2 (NM_004810) Human Untagged Clone
Tag:	Tag Free
Symbol:	GRAP2
Synonyms:	GADS; GRAP-2; GRB2L; GRBLG; GrbX; Grf40; GRID; GRPL; Mona; P38
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_004810 edited
 GGGGCTTCATTTCTGTTCTGGCATCTGGGATTCCGAGAATGATCCCAGGACCTAGAT
 CCTATAGATTCGGCAGCTCTTCTGCAAACACAAGCCCTTGTGTGCTGAGCCTTG
 CTCTCCGGCCTGGAGACATCCATCTGCCACTCTCTAGGAAGTCTGATTACCAGGAAG
 CACCATCGGCTCTGCTGCCCTCCCCTGGCAGAGAGGCACAATGACCACATTATTTCTCT
 TCCAGCTTACGTTACAGCATGGAAGCTGTTGCCAAGTTTGATTTCACTGCTTCAGGTGA
 GGATGAAGTGAAGCTTTTCACTGGAGATGTTTTGAAGATTTTAAGTAACCAAGAGGAGTG
 GTTTAAGCGGAGCTTGGGAGCCAGGAAGGATATGTGCCAAGAATTTTCATAGACATCCA
 GTTTCCCAAATGGTTTACGAAGCCTCTCTCGACACCAGGCAGAGAAGTTACTCATGGG
 CAAGGAGGTTGGCTTCTTCATCATCCGGGCCAGCCAGAGCTCCCCAGGGGACTTCTCCAT
 CTCTGTGACGGCATGAGGATGACGTTCAACACTTCAAGGTCATGCGAGACAACAAGGGTAA
 TTAATTTCTGTGGACTGAGAAGTTCCATCCCTAAATAAGCTGGTAGACTACTACAGGAC
 AAATTCATCTCCAGACAGAAGCAGATCTTCTTAGAGACAGAACCCGAGAAGACCAGGG
 TCACCGGGCAACAGCCTGGACCGGAGGTCCCAGGGAGGCCACACCTCAGTGGGGCTGT
 GGGAGAAGAAATCCGACCTTCGATGAACCGGAAGCTGTGGATCACCCCGACCTTCC
 CCTGCAGCAGCACCAGCACCAGCCACAGCTCCGCAATATGCCCAAGCGCCAGCAGCT
 GCAGCAGCCCCACAGCAGCGATATCTGCAGCACCACCTTTCCACCAGGAACGCCGAGG
 AGGCAGCCTTGACATAAATGATGGGCATTGTGGCACCGGCTTGGGCAGTGAATGAATGC
 GGCCCTCATGCATCGGAGACACAGACCCAGTGCAGCTCCAGGCGGCAGGGCGAGTGGC
 GTGGGCCCGGGCCTGTATGACTTTGAGGCCCTGGAGGATGACGAGCTGGGGTCCACAG
 CGGGGAGGTGGTGGAGGTCTGGATAGCTCAACCCATCTGGTGGACCGGCCGCTGCA
 CAACAAGCTGGGCTTCTCCCTGCCAACTACGTGGCACCATGACCCGATAAACTCTTCA
 GGGGACAGAAGCTTTTTGTCTGGAGCTGCCACAAGAAAGAGGGCAAGGAAAAAAGGCTG
 GACTCCATGACTATATATACATACATCTACTACATCTGCTGTGTACACACACAATTT
 TTATACTAGTAATTTATTGGCAATTGGGCTGGTAAATTAGTTGATGCAAAAAGGGAAGTCA
 GTGGAGAATAATTTGACACTTGCTTTTCTGCCCCCTCAGGGGTGTGTGGAAGGCAGTG
 GGGGAGTTGGGAGGGGGCAGGAAATGAAATGGAGTTTTGTCTGGCAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_004810 unedited
 GATTTTGTAAACGAAGTACTATAGGGCGGCCGGAATTCAAATCTGGTACCGGTCCGG
 AATTCGGGATGTTAATGGATCTGAAACTTGCACCCTTTTTCAGAGTGGTACATGGAA
 GACAGCACAAAGTGGATCCATACTCTGAAATGCAGTAACTCTGATGCTTGAATTTGTCTC
 CCTTCTTGCCAGAAAGGATTCTAATAACTCGGTGTCAAAGCCAAGACATAAACTCAACCC
 CTTCTCTCCAAAAGCTTACGTTACAGCATGGAAGCTGTTGCCAAGTTTGATTTCACTG
 CTTCAGGTGAGGATGAACTGAGCTTTCACTGGAGATGTTTTGAAGATTTTAAGTAACC
 AAGAGGAGTGGTTAAGGCGGAGCTTGGGAGCCAGGAAGGATATGTGCCAAGAATTTCA
 TAGACATCCAGTTTCCCAAATGGTTTACGAAGCCTCTCTCGACACCAGGCAGAGAAGT
 TACTCATGGGCAAGGAGGTTGGCTTCTTCATCATCCGGGCCAGCCAGAGCTCCCCAGGG
 ACTTCTCCATCTGTGACGGCATGANGATGACGTTCACTTCAAGGTCATGCGAGACAC
 AAGGGTAATTTCTGTGGACTGAGAAGTTCCCATCCTAAAAAGCTGGTAGACTAC
 TACAGGACAAATCCATCTNCAGACAGAAGCAGATCTTCTTAGAGACAGAACCCGAGAA
 GACCCAGTCCACGGGCAACAGCCTGGACNNGAGTCCCAGGNAGGCCACACCTCAGTG
 GGCTGTGNAGAAGAAATCCGACCTCGATGAACCGGAGCTGTGNGATCACCCCGACCT
 TCCCCTGNAGGAGCACCANACCAGCACAGACTTCGCATATGCCCAACGCCANAGCTGAG
 NACCCACAGNACGATTTGGAGCACCCATTCCACCAGAAGCCAGAGGCCCTGACTAA
 TGA

Restriction Sites: NotI-NotI
ACCN: NM_004810
Insert Size: 1600 bp

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:	NM_004810.2 , NP_004801.1
RefSeq Size:	1552 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
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR, compared to variant 1. Variants 1, 2 and 3 encode the same isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>