

Product datasheet for **SC313631**

RASGEF1B (NM_152545) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASGEF1B (NM_152545) Human Untagged Clone
Tag:	Tag Free
Symbol:	RASGEF1B
Synonyms:	GPIG4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC313631 representing NM_152545.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCCTCAGACTCCTCCCTTTTCAGCAATGTTTGACAGCAGTGGTTACAATCGAAACCTCTATCAGTCT
GCAGAGGACAGCTGTGGAGGGTTGTATTACCATGACAACAACCTCCTCTCTGGATCCCTGGAAGCACTC
ATCCAGCACTTAGTACCTAATGTGGATTACTATCCAGATAGAACATACATATTTACCTTCCTACTCAGT
TCTCGGTTATTTATGCATCCGTATGAGCTAATGGCCAAAGTTTGCCACTTATGTGTTGAGCACCAGAGA
CTAAGTGATCCTGATAGTGATAAGAACCAGATGAGAAAAATTGCACCCAAAATCCTTCAACTCCTCACG
GAATGGACGGAACATTTCCCTATGATTTTCGGGATGAAAGAATGATGAGAACTTAAAGATCTGGCT
CACCGAATAGCCAGTGGCGAAGAGCAGACATACAGAAAGAATGTCCAGCAATGATGCAGTGTCTGATC
CGCAAGCTTGCTGCGCTCAGCCAGTACGAAGAAGTCTGGCAAAAATCAGCTCCACATCCACAGATCGG
CTCACAGTTCTCAAGACCAAGCCACAGTCTATACAAAGGGATATCATTACTGTCTGCAACGACCCTTAC
ACGTTGGCCAGCAGCTGACTCATATAGAGCTGGAGAGGCTCAATTATATTGGGCCAGAAGAATTTGTT
CAGGCGTTTCGTGCAGAAGGACCCTTTGGATAATGACAAGAGTTGCTACAGTGAACGGAAGAAAACACGA
AACTTAGAAGCTTACGTGGAATGGTTTAAATCGCCTCAGCTACTTGGTTGCTACAGAAATCTGTATGCCT
GTAAAGAAAAACACCGAGCAAGAATGATTGAGTATTTTATTGACGTAGCTCGGGAGTGTTTTAAACATT
GGCAACTTCAACTCCTTGATGGCGATAATCTCTGGTATGAATATGAGCCAGTCTCTCGACTAAAAAAA
ACTTGGGCCAAAGTGAAGACTGCAAAATTTGACATTCTTGAGCATCAGATGGACCCTTCAAGCAATTTT
TATAATTATCGAACAGCTCTTCGTGGGGCAGCACAAAGGTCTTTAACTGCTCATAGTAGAGAAAAG
ATTGTGATACCATTCTTCAGTCTCTTAATCAAAGATATTTATTTCTCAATGAGGGTTGTGCCAACCGC
CTTCCCAATGGCCATGTCAATTTTGAGAAATTTTGGGAACTGGCCAAACAAGTGAATGATTTATGACA
TGGAAACAAGTGGAGTGCCATTTGAGAGGGACCGGAAGATCTTGCAGTATCTGCTCACAGTACCAGTC
TTCAGTGAAGATGCTCTCTACTTGGCTTCTATGAGAGTGAAGGACCTGAAAATCATATAGAGAAAGAC
AGATGGAAGTCTTTAAGGTCGAGCCTCTTAGGCAGAGTTTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_152545

Insert Size: 1422 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<u>NM_152545.2</u>
RefSeq Size:	2962 bp
RefSeq ORF:	1422 bp
Locus ID:	153020
UniProt ID:	<u>Q0VAM2</u>
Cytogenetics:	4q21.21
Domains:	RasGEFN, RasGEF
MW:	55.4 kDa
Gene Summary:	Guanine nucleotide exchange factor (GEF) with specificity for RAP2A, it doesn't seems to activate other Ras family proteins (in vitro).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest 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.