

Product datasheet for SC309933

RASAL2 (NM_170692) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASAL2 (NM_170692) Human Untagged Clone
Tag:	Tag Free
Symbol:	RASAL2
Synonyms:	NGAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC309933 representing NM_170692. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**
 ATGGAGCTCTCTCCGTCGTCCGGAGGAGCCGGAGGCGCTGTCTGGCCGGAGATGTTCCCGGCGCTG
 GAGTCCGACTCGCCGCTGCCCGGAGGACCTGGACGCGGTTGTCCAGTCAGTGGAGCCGTCGCCGGT
 GGCATGTTGGATCGGATCCTTCTGGAGTCCGTGTGCCAGCAACAGAGCTGGGTCCGGGTGTACGATGTG
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 ACCATGCTGTGTTCTGCTTGGCCAGTAATTAGTGTGAGAAATAAGAGGAGTTGGCTGTGCCTTA
 GTGCACATTCTCAAAGTACTGCGAGGCAAGGATTTCTGACTGACTTGGTGATGTCTGAGGTGGAT


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CGTTGTGGAGAGCATGATGTCTTGATCTTCAGAGAGAACACTATTGCCACCAATCCATTGAGGAATAC
CTCAAGTTGGTGGGACAACAGTATCTTCATGACGCACTGGGGGAGTTTATCAAAGCTTTGTATGAGTCC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

ACCN: NM_170692

Insert Size: 3843 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_170692.2</u>
RefSeq Size:	10896 bp
RefSeq ORF:	3843 bp
Locus ID:	9462
UniProt ID:	<u>Q9UJF2</u>
Cytogenetics:	1q25.2
MW:	143.9 kDa
Gene Summary:	This gene encodes a protein that contains the GAP-related domain (GRD), a characteristic domain of GTPase-activating proteins (GAPs). GAPs function as activators of Ras superfamily of small GTPases. The protein encoded by this gene is able to complement the defective RasGAP function in a yeast system. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (2) differs in the 5' UTR and 5' coding region, and uses an alternate in-frame splice site in the central coding region, compared to variant 1. The resulting isoform (2) has a distinct N-terminus and is longer than 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.