

Product datasheet for **SC337493**

RASAL1 (NM_001301202) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASAL1 (NM_001301202) Human Untagged Clone
Tag:	Tag Free
Symbol:	RASAL1
Synonyms:	RASAL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001301202, the custom clone sequence may differ by one or more nucleotides

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ATGGCCAAGAGCAGCTCCCTGAATGTTTCGCGTGGTGGAGGGCCGCGCGCTGCCTGCCAAGGACGTGTCTG
GGAGCAGCGACCCCTACTGCCTAGTAAAGTGGACGACGAGGTGGTGGCCAGGACAGCTACTGTCTGGAG
GAGCCTGGGCCCTTCTGGGGGAGGAGTACACGGTGCACCTGCCTCTGGATTTCCACCAGCTGGCCTTC
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CAGGCCAGGGACCTGGCTCCCAGAGACATCTCTGGCACATCTGACCCATTTGCACGTGTGTTTTGGGGCA
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TGCCCTTTCCAGAGCCGAGGAGATTCTGGGGGAACCTGGGTGCCCTGCGAGTGAAGGTACGCCCTGAT
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TGCACCGCGAGTGGAGGAGCGCTTCCCCAGGCCGAGCACAGGATGTGAAGTACCTGGCCATCAGTGG
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GCGGACCCCGAGACTAGCCGCTCACTGCTGTTGCTTGCCTGCAAGGCTGTGCAGAGCATTGGAACCTGGGCC
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TGTGAGAGACTTCTGGACCGGCTGGTGGATGTGGATGGGGATGAAGAAGCTGGTGTCCCAGCCAGGGCC
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TGAGTGGCAGATGTGCTACTCCATCCCCGTGTCTCACATCCGCGCCGTGGAGCGGTAGACGAGGGCGCC
TTCCAACCTGCCCCACGTGATGCAGGTGGTACGACAGGACGGCACGGGGGCGCTGCACACCACCTACCTCC
AGTGCAAGAATGTGAATGAGCTCAACCAGTGGCTCTCGGCCTTGCGAAGGCCAGCGCCCCCAACCCGAA
CAAGCTGGCCGCTGCCACCCGGTGCCTTCCGCAGCGCGCGCTGGACCTGCTGCCTCCAGGCTGAGCGC
TCAGCCGCGGCTGCAGCCGTACACACTCAGCTGTACCCCTGGGGGACTGGAGTGACCCACTGGATCCTG
ATGCTGAGGCCAGACAGTGTATCGGCAGCTGCTCTGGGGCGGGACCAGCTCAGGCTGAAATTACTGGA
GGATTCTAACATGGATACAACCTCGGAGGACAGACAGGGGCTGTCTGAGGCTCTGGCCCGGCAAGA
GCAGCAACTGCCCGCTGCTGGAGGTGCTCGCAGACTGGATCGTCCCACGAGGAGTCCAGCAGCAGG
AGCGAGGGAAGGGCGCCCTGGGCCCTTGGCCCCTAA

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Restriction Sites: SgfI-MluI

ACCN: NM_001301202

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:

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_001301202.1](#), [NP_001288131.1](#)

RefSeq Size: 3665 bp

RefSeq ORF: 2418 bp

Locus ID: 8437

UniProt ID: [O95294](#)

Cytogenetics: 12q24.13

Gene Summary: The protein encoded by this gene is member of the GAP1 family of GTPase-activating proteins. These proteins stimulate the GTPase activity of normal RAS p21 but not its oncogenic counterpart. Acting as a suppressor of RAS function, the protein enhances the weak intrinsic GTPase activity of RAS proteins resulting in the inactive GDP-bound form of RAS, thereby allowing control of cellular proliferation and differentiation. This particular family member contains domains which are characteristic of the GAP1 subfamily of RasGAP proteins but, in contrast to the other GAP1 family members, this protein is strongly and selectively expressed in endocrine tissues. Alternatively spliced transcript variants that encode different isoforms have been described [provided by RefSeq, Jul 2010]

Transcript Variant: This variant (4) uses an alternate, in-frame splice site in the 3' coding region compared to variant 1. The resulting protein (isoform 4) is shorter but has the same N- and C-termini compared to 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.