

Product datasheet for **SC122686**

RASAL1 (NM_004658) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: RASAL1 (NM_004658) Human Untagged Clone
Tag: Tag Free
Symbol: RASAL1
Synonyms: RASAL
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_004658 edited
 CCCCAGGGCACCTACACCTTCTCCTTTTCGAAATCTCCCATCCAGCTACCCGGGTCTCG
 GACAGGCGGCACTGGGACCACGAGGAGGCCAGGCTTGAAGCAGGTGACATGTAGAC
 GTCCCTGGTCCAGCCTCGGAACCTGAGCGCCCTTCTGCCTGGAAAGTTTGTGGCTAGGC
 GCCATGGCCAAGAGCAGCTCCCTGAATGTTGCGTGGTGGAGGGCCGCGCTGCCTGCC
 AAGGACGTGTCTGGGAGCAGCGACCCCTACTGCCTAGTAAAAGTGGACGACGAGGTGGT
 GCCAGGACAGCTACTGTCTGGAGGAGCCTGGGCCCTTCTGGGGGAGGAGTACACGGTG
 CACCTGCCTCTGGATTTCCACCAGCTGGCCTTCTACGTGTGGATGAGGACACTGTCGGG
 CACGACGACATCATCGGCAAGATCTCGCTGAGCAGGGAGGCGATTACAGCCGACCCCGA
 GGGATTGACAGCTGGATTAACCTGAGCCGAGTGGACCCAGATGCAGAAGTGCAGGGTGAG
 ATCTGCCTGTCACTGCAGATGCTGGAGGATGGGCAGGGCCGCTGCCTTCGCTGCCATGTG
 CTTGAGGCCAGGGACCTGGCTCCCAGAGACATCTCTGGCACATCTGACCCATTTGCACGT
 GTGTTTTGGGGCAGCCAGAGCTTGGAGACCTCAACCATCAAGAAGACTCGCTTCCCGCAC
 TGGGATGAAGTGTCTGGAGCTGCGGGAGATGCCAGGTGCCCGTCCCCTGCGGGTGGAG
 CTCTGGGACTGGGACATGGTGGGCAAGAATGACTTCTTGGGCATGGTGGAGTTCTCTCCA
 AAGACCTCCAGCAGAAGCCACCTAAAGGCTGGTCCGCCTCTGCCCTTCCAGAGCC
 GAGGAGGATTCTGGGGGAACCTGGGTGCCCTGCGAGTGAAGGTACGCTGATTGAGGAC
 CGCGTCTGCCCTCCAGTGTCTACCAGCCTCTCATGGAGCTGCTCATGGAGTCTGTGCAG
 GGGCCAGCAGAGGAGGACTGCTAGCCCTTGGCTTTGCTGGAAGAGCTGACCTTGGG
 GACTGCCGCCAGGACCTTGCCACCAAGCTGGTGAACCTTTCTTGGCCGGGACTGGCT
 GGGCACTTTCTGACTATCTCACCCGGCGTGGAGTGGCTCGGACCATGGACCCCAACACC
 CTCTTCGTTCTAACTCCCTGGCATCCAAGTCGATGGAACAGTTTATGAAGCTCGTGGG
 ATGCCCTACCTGCACGAGGTCTGAAGCCTGTGATTAGCCGTGTCTTTGAGGAGAAGAAG
 TACATGGAGCTGGATCCCTGCAAGATGGACCTGGGCCGACCCGGAGGATCTCCTCAA
 GGGCACTCTCGGAGGAGCAGATGCGGGAGACCAGCCTGGGGCTGCTGACGGGCTACCTG
 GGGCCCATCGTGGACGCCATCGTGGGCTCCGTGGGGCGCTGCCCGCCGCATGCGCCTC
 GCCTTCAAGCAGCTGCACCGCGAGTGGAGGAGCGCTTCCCCAGCCGAGCACCAGGAT



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GTGAAGTACCTGGCCATCAGTGGATTTCTTCTTCTGCGATTCTTCGCACCTGCCATCCTT
ACCCCAAAGCTGTTTGACCTTCGGGACCAACACGCGGACCCCACTAGCCGCTCACTG
CTGTTGCTTGCCAAGGCTGTGCAGAGCATTGAAACCTGGGCCAGCAGCTGGGCCAAGGC
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GACTTCTGGACCGGCTGGTGGATGTGGATGGGGATGAAGCTGGTGTCCAGCCAGGGCC
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GCCGGCCTGGCCACGCGCTTTCCTTCAAGAAGCGCTACGTCTGGCTCAGCGGGGAGACC
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CGCAAGGCCAGCGCCCCAACCCGAACAAGCTGGCCGCCTGCCACCCCGGTGCCTTCCGC
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GCCAGAGCTAGCCCGAAGGAGGAGCAAGAGCCAGGGGGCCCTTTCAGCGCATCCTGCC
CCGGGAGTCTCCTGTCTCCTTGGACCTCTTTGATTCTGTGGTTTGGAGGCTCCCAGAGAC
GTGCCTAGTCTGTGTGCCTTGGTCCAGAAGTCCAGGGCATGGAAGCCCTTTGGCAGGGG
CCAGCCTTGCACTGAGTGAAGTGGCCCTTGGCTTGGATTCAGACTGGAGTGGATAGGAT
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CATACCAAGGAGGCCAGCCTGGCCCTGAGCTGCTGGATACAGCTGGACCTGAATTCCTGA
TGCCCATGTGATGTTGTTGCCCCAGATGGGCACTAAATGGCCTCACTCCTTCTGAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_004658 unedited
GAAACGTCAGAATTTGTATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGGCCCC
GGGCACCTACACCTTCTCCTCTTTGGAATCTCCATCCAGCTACCCGGGTCTCGGACA
GGCGGCACTGGGACCAGGAGGAGCCAGGCTTGAAGCAGGTGACATGTAGACGTCC
CCTGGTCCAGCCTCGGAACCTGAGCGCCCTTCTGCCTGGAAGTTTGTGGCTAGGCGCCA
TGGCCAAGAGCAGCTCCCTGAATGTTTCGCGTGGTGGAGGGCCGCGCGCTGCCTGCCAAGG
ACGTGTCTGGGAGCAGCGACCCCTACTGCCTAGTAAAAGTGGACGACGAGGTGGTGGCCA
GGACAGCTACTGTCTGGAGGAGCCTGGGCCCTTCTGGGGGAGGAGTACACGGTGCACC
TGCCTCTGGATTTCCACCAGCTGGCCTTCTACGTGCTGGATGAGGACACTGTCCGGCAGG
ACGACATCATCGCAAGATCTCGCTGAGCAGGGAGGCGATTACAGCCACCCCGAGGGA
TTGACAGCTGGATTAACCTGAGCCGAGTGGACCCAGATGCAGAAGTGCAGGTGAGATCT
GCCTGTCAGTGCAGATGCTGGAGGATGGGCAGGGCCGCTGCCTTTCGCTGCCATGTGCTTC
AGGCCAGGGACCTGGCTCCCAGAGACATCTCTGGCACATCTGACCCATTTGCACGTGTGT
TTTGGGGCAGCCAGAGCTTGGAGACCTCAACCATCAAGAAGACTCGCTTCCCGCACTGGG
ATGAAGTGTGGAGCTGCNGGAGATGCCAGTGGCCCGTCCCGCTGCGGGTGGAGCTCTG
GGACTGGGACATGGTGGCAAGAATGACTTCTTGGGCATGGTGGAGTTCTCTCAAACCC
TA
    
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Restriction Sites:

Please inquire

ACCN:

NM_004658

Insert Size:

3028 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_004658.1 , NP_004649.1
RefSeq Size:	3148 bp
RefSeq ORF:	2415 bp
Locus ID:	8437
UniProt ID:	O95294
Cytogenetics:	12q24.13
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and uses two alternate, in-frame splice sites in the coding region compared to variant 1. The resulting protein (isoform 2) 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.</p>