

Product datasheet for **SC315218**

RASAL2 (NM_004841) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASAL2 (NM_004841) Human Untagged Clone
Tag:	Tag Free
Symbol:	RASAL2
Synonyms:	NGAP
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004841, the custom clone sequence may differ by one or more nucleotides

```

ATGCAGACCCAGAGGTACCAGCAGAAAGGTCCCCTCGTAGACGGAGTATCTCAGGGACC
AGTACATCAGAGAAACCAACTCCATGGACACTGCAAATACCTCACCTTCAAAGTACCA
GGATTCTTCAGCAAGCGCCTGAAAGGCTCCATCAAGAGGACAAAAGCCAGTCAAAGCTT
GACAGAAACACGAGCTTTCGGCTTCCATCCCTTCGCAGTACAGATGACAGGTCTCGTGGG
CTGCCTAAACTAAAAGAGTCACGTTCCCATGAATCCTTGCTGAGCCCATGCAGCACAGTG
GAATGTCTGGATCTTGGTAGAGGGGAACCTGTATCAGTGAAACCACTTCATAGTAGCATC
CTTGACAAGACTTCTGCTTTGAGGTTACCTACTTAAGTGAAGTAAATGCTTCAGCTGT
AATTCTGCTTCTGAGAGAGACAAGTGGATGGAAAACCTTCGCAGGACAGTTCAACCTAAT
AAGGACAATTGCAGGCGAGCTGAAAATGTTCTTCGTTTATGGATCATTGAAGCCAAGGAC
CTTGCCCTAAAAAGAAATATTTCTGCGAACTGTGCCTTGATGATACCCTCTTGCTCGT
ACAACCAGCAAGACCAAGCAGACAATATTTCTGGGGCGAACATTTGAATTCCTCAGC
CTTCCACCTCTTCATAGTATCACAGTTCACATTTACAAGGATGTGGAAAAAAGAAAAA
AAGGACAAGAATAATTATGTAGGCTAGTCAACATCCCCACTGCCAGTGTGACTGGTCGC
CAATTTGTAGAAAAGTGGTATCCAGTGAGTACACCTACACCAACAAAGGAAAGACAGGA
GGACCTTCTATTTCGATTAAATCACGTTTCCAACTATCACCATTCTGCCTATGGAGCAA
TACAAAGAATTTGCAGAATTTGTACCAGCAACTACACCATGCTGTGTTCTGTCCTTGAG
CCAGTAATTAGTGTGAGAAATAAAGAGGAGTTGGCTTGTGCCTTAGTGCACATTCTTCAA
AGTACTGGCAGAGCCAAGGATTTTCTGACTGACTTGGTGATGTCTGAGGTGGATCGTTGT
GGAGAGCATGATGTCTTGATCTTCAGAGAGAACTATTGCCACCAATCCATTGAGGAA
TACCTCAAGTTGGTGGGACAACAGTATCTTCATGACGCACTGGGGGAGTTTATCAAAGCT
TTGTATGAGTCCGATGAGAACTGTGAAGTGGATCCCAGCAAATGTTTCATCTAGTGAAGT
ATAGACCATCAGAGCAACCTGAAAATGTGCTGTGAGCTGGCTTTCTGCAAGATCATCAAC
TCTTACTGTGTTTTCCCTCGTGAGTTGAAAGAAGTGTTCATCATGGAAGCAGCAGTGC
CTGAACCGTGGCAAGCAAGACATCAGCGAGAGGCTCATCAGTGCCTCATTATTTCTCCGT
TTTCTGTGTCCAGCCATTATGTCTCCAGTCTTTTCAACCTTATGCAGGAGTATCCTGAT
GACCGCACATCTCGGACTCTAACTCTTATTGCCAAGGTCATTTCAGAACCTGGCCAACCTT
GCCAAGTTTGGTAACAAAGAGGAATACATGGCATTTCATGAATGATTTTTAGAACATGAA
TGGGGTGGAAATGAAGCGCTTTCTTTGGAGATCTAATCCAGACACCATCTCAAACACC
CCAGGCTTTGATGGTTACATTGATCTGGGCCGAGAGCTTTCAGTTTTGCATTCTTACTG

```



[View online »](#)

TGGGAAGTAGTTTCCCAACTTGATAAGGGTGAAAAATTCCTTCCTACAGGCGACCGTGGA
AAATTGGGGCCTCTCCCTCGTGTCTTGCTGATATTACCAAGTCATTGACTAATCCTACG
CCAATACAACAGCAACTGAGACGCTTCACTGAACATAACTCCAGTCCAAATGTCAGTGGA
AGCCTCTCCTCTGGGCTGCAGAAAAATTTGAAGACCCCACTGACAGTGATTTGCATAAA
CTAAAACTCCAAGCCAGGACAACACAGACAGCTACTTCAGAGGGAAAACATTATTGCTG
GTTTCAGCAAGCCTCCTCTCAGAGCATGACTTATTCTGAAAAGGATGAAAGGGAAAGTAGC
CTTCCTAATGGTCGGAGCGTCTCCCTCATGGACCTCCAGGACACTCATGCTGCTCAAGTG
GAGCATGCATCTGTCATGCTTGATGTGCCTATACGCTTGACCGGAAGCCAGCTTTCCATA
ACCCAGGTGGCCAGCATCAAACAGCTGCGGGAAACCCAGAGCACTCCCCAAAGTGCAACC
CAAGTGAGAAGGCCCTGCACCCAGCCTTGAACCAGCCAGGTGGCCTTCAGCCCTTGTCG
TTCCAGAACCCTGTCTATCACCTCAATAACCCAATTCCAGCAATGCCAAAGGCCTCTATA
GATTCCAGTTTGGAGAACCTAAGCACTGCCAGTTCAGAAGCCAAAGTAACAGTGAAGAC
TTCAAGCTCAGTGGACCCAGCAATAGCAGCATGGAAGATTTCACTAAACGTAGCACTCAG
AGTGAGGACTTCTCCAGCGGCACACGGTGCCAGATAGACACATACCTCTTGCTTTGCCA
CGACAAAATAGTACTGGGCAGGCCAGATCCGAAAAGTGACCAGGGTGGGTTAGGTGCC
CGAGCCAAAGCCCCACCATCCCTGCCACACAGTGCTTCTTTACGTAGCACCGGGAGCATG
TCAGTGGTGTCCGAGCCCTGGTGGCCGAACCTGTGCAGAATGGGAGCCGGTCCCGGCAG
CAGTCTCTTCTCCAGAGAGAGCCCTGTTCCCAAAGTTAGAGCAATCCAGAGACAACAG
ACACAGCAGGTTCACTACCTGTGGACTCTGCCACAATGTCCCCAGTAGAGAGGACAGCA
GCCTGGGTTCTGAACAATGGGCAGTATGAAGAGGATGTGGAAGAACTGAGCAAAATCTA
GATGAAGCCAAGCATGCTGAGAAGTATGAACAAGAAATTAATAACTGAAGGAGCGCCTG
AGAGTTTCCAGCCGCGGACTGGAGGAATATGAACGCCGCTTGCTGGTGCAGGAGCAGCAG
ATGCAGAAGCTGCTGCTGGAATACAAGGCCGACTGGAGGACAGCGAGGAGCGGCTCCGA
AGACAGCAGGAAGAAAAAGATAGCCAGATGAAAAGCATCATCAGCAGGCTAATGGCTGTG
GAAGAGGAACTGAAGAAGGATCATGCTGAGATGCAAGCAGTTATTGATGCAAAGCAGAAA
ATAATTGATGCACAGGAAAAACGGATCGTGTCCCTGGATTAGCCAACACCAGACTGATG
AGCGCGTGACCCAAGTGAAGGAGCGGTACAGCATGCAGGTCCGCAATGGCATCTCCCC
ACCAACCCCAAGCTTTCCATCACGGAGAATGGTGAATCAAAAACAGCAGCTGC

Restriction Sites:

Please inquire

ACCN:

NM_004841

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: NM_004841.2, NP_004832.1

RefSeq Size: 4744 bp

RefSeq ORF: 3420 bp

Locus ID: 9462

UniProt ID: Q9UJF2

Cytogenetics: 1q25.2

Domains: C2, PH, RasGAP

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 (1) represents the shorter transcript and encodes the shorter 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.