

Product datasheet for SC322652

RRAS2 (NM_012250) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: RRAS2 (NM_012250) Human Untagged Clone
Tag: Tag Free
Symbol: RRAS2
Synonyms: NS12; TC21
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >OriGene sequence for SC322652
CGCGCCTCGGGCGGTACCCAGCCAGTCCCAGCGCCGCGTACCCGCGTGACCGGCCCTC
CAGACGCCTCCCGGTACCCGGGACCCAGCCCGGCGCTCGCCCGCAGCCCGCGCCGC
ACACGTCCCCGGAGCCGGCCTAGGGCGGGCGGACGCGGCGCTCGGCGCAGTCAGGCTG
GGCTCTGTAGCGTCCCCATGGCCGCGGCGGCTGGCGGGACGGCTCCGGCCAGGAGAAGT
ACCGGCTCGTGGTGGTCGGCGGGGGCGCGTGGGCAAGTCGGCGCTACCATCCAGTTCA
TCCAGTCTATTTTGTAAACGGATTATGATCCAACCATTGAAGATTCTTACACAAAGCAGT
GTGTGATAGATGACAGAGCAGCCCGCTAGATATTTTGGATACAGCAGGACAAGAAGAGT
TTGGAGCCATGAGAGAACAGTATATGAGGACTGGCGAAGGCTTCCTGTTGGTCTTTTCAG
TCACAGATAGAGGCAGTTTTGAAGAAATCTATAAGTTTCAAAGACAGATTCTCAGAGTAA
AGGATCGTGATGAGTTCCAATGATTTTAATTGGTAATAAAGCAGATCTGGATCATCAA
GACAGGTAACACAGGAAGAAGGACAACAGTTAGCACGGCAGCTTAAGGTAACATACATGG
AGGCATCAGCAAAGATTAGGATGAATGTAGATCAAGCTTTCCATGAACCTGTCCGGGTTA
TCAGGAAATTTCAAGAGCAGGAATGTCCTCCTTACCAGAAACACCGGAAAGAAAAAG
ACAAGAAAGGCTGCCATTGTGTCATTTTCTAGAATCCCTTCAGTTTTAGCTACCAACGGC
CAGGAAAAGCCCTCATCTTCTCTTCTCCTCAGTTTACATCTTGTGGTACCTTTCTA
GCCTTAGACAAATGATCACCATGTTAGCCTTAGACCAAGAAGCTGGCTAGTCCTTTCTGT
GAAGCTAATAAATGGTCATTTCCAGACAAATTTAAAGGAAACACTAAGGCTGCTTCAA
GATTATCTGATTCTTTAAAATATATGTCTATATACACAGACATGCTCTTTTTTTAAGTG
CTTACATTTTAATAGAGATGAATCAGTTTTGGAATCTAAGCTGTTGCCAAGCTGAAGCT
ACAGGTTGTGAAATAATTTTAACTTTTGAATCATACTGCCTACTGTTACTCTAAATAG
AAATATAGGGTTTTTTTTAATGTGAATTTTGCCTATCTTTAAACATTTCAATGTCAGCC
TTTGTTAACCTTAAATACACTGAATTGAATCTACAAAAGTGAACCATCTCAGACCTTTAC
TGATACTACAACCTTTGTTTTCTGATGGCCAAAATACCAATGCCTGTTGATTTATGGA
TTAAAACTGCTTATAAAAAAAAAAAAAA

Restriction Sites: Please inquire



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| ACCN: | NM_012250 |
| 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: | <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: | <u>NM_012250.3</u> , <u>NP_036382.2</u> |
| RefSeq Size: | 1510 bp |
| RefSeq ORF: | 615 bp |
| Locus ID: | 22800 |
| UniProt ID: | <u>P62070</u> |
| Cytogenetics: | 11p15.2 |
| Domains: | ras, RAN, RAS, RHO, RAB |
| Protein Families: | Druggable Genome |
| Protein Pathways: | MAPK signaling pathway, Regulation of actin cytoskeleton, Tight junction |
| Gene Summary: | <p>This gene encodes a member of the R-Ras subfamily of Ras-like small GTPases. The encoded protein associates with the plasma membrane and may function as a signal transducer. This protein may play an important role in activating signal transduction pathways that control cell proliferation. Mutations in this gene are associated with the growth of certain tumors. Pseudogenes of this gene are found on chromosomes 1 and 2. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Apr 2010]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).</p> |