

## Product datasheet for **SC127712**

### **RALA (NM\_005402) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RALA (NM_005402) Human Untagged Clone
Tag:	Tag Free
Symbol:	RALA
Synonyms:	HINCONS; RAL
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127712 sequence for NM_005402 edited (data generated by NextGen Sequencing)

```
ATGGCTGCAAATAAGCCCAAGGGTCAGAATTCTTTGGCTTTACACAAAGTCATCATGGTG
GGCAGTGGTGGCGTGGGCAAGTCAGCTCTGACTCTACAGTTCATGTACGATGAGTTTGTG
GAGGACTATGAGCCTACCAAAGCAGACAGCTATCGGAAGAAGGTAGTGCTAGATGGGGAG
GAAGTCCAGATCGATATCTTAGATACAGCTGGGCAGGAGGACTACGCTGCAATTAGAGAC
AACTACTTCCGAAGTGGGGAGGGGTTCTCTGTGTTTTCTCTATTACAGAAATGGAATCC
TTTGCAGCTACAGCTGACTTCAGGGAGCAGATTTAAGAGTAAAAGAAGATGAGAATGTT
CCATTTCTACTGGTTGGTAACAAATCAGATTTAGAAGATAAAAGACAGGTTTCTGTAGAA
GAGGCAAAAAACAGAGCTGAGCAGTGGAAATGTTAACTACGTGGAACATCTGCTAAAACA
CGAGCTAATGTTGACAAGGTATTTTTTTGATTTAATGAGAGAAATTCGAGCGAGAAAGATG
GAAGACAGCAAAGAAAAGAATGGAAAAAAGAAGAGGAAAAGTTTAGCCAAGAGAATCAGA
GAAAGATGCTGCATTTTATAA
```

Clone variation with respect to NM\_005402.3



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_005402 unedited  
 TTGTAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGGCTCGCGGTGCAGA  
 TTCTTCTTAATCCTTTGGTGAAAAGTACACAAAGTACATCATGGTGGGAGTGGTGGCGTGGGCAAGTCA  
 CAGAATCTTTGGCTTTACACAAAGTACATCATGGTGGGAGTGGTGGCGTGGGCAAGTCA  
 GCTCTGACTCTACAGTTCATGTACGATGAGTTTGTGGAGGACTATGAGCCTACCAAGCA  
 GACAGCTATCGGAAGAAGGTAGTGTAGATGGGGAGGAAGTCCAGATCGATATCTTAGAT  
 ACAGCTGGGACGAGGACTACGCTGCAATTAGAGACAACACTCTCCGAAGTGGGGAGGGG  
 TTCCTCTGTGTTTTCTCTATTACAGAAATGGAATCCTTTGCAGCTACAGCTGACTTCAGG  
 GAGCAGATTTTAAGAGTAAAAGAAGATGAGAATGTTCCATTTCTACTGGTTGGTAAACAAA  
 TCAGATTTAGAAGATAAAAGACAGGTTTCTGTAGAAGAGGCAAAAAACAGAGCTGAGCAG  
 TGGAAATGTTAACTACGTGGAAACATCTGCTAAAACACGAGCTAATGTTGACAAGGTATTT  
 TTTGATTTAATGAGAGAAATTCGAGCGAGAAAGATGGAAGACAGCANAGAAAAGAATGGA  
 AAAAAGAAGAGGAAAAGTTAGCCAAGAGAATCAGAGAAAGATGCTGCATTNTATAATCA  
 AAGCCCAAACCTCTTTCTTATCTTGACCATACTAATAAATAATTTATAAGCCTTGCCA  
 TTTGAAGCTTAATTGACTGAAATTACTTTAACATTTTGGAAATTTGGTTGATATCACCTAA  
 AGCATGAATTGGAAGTCAATGGAAGTCAATTTACTTTANAAGAATTAATATTGCTTCC  
 CAGAAGCAAGGTCAACTATTA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_005402 unedited  
 TATGGAACGGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTAAAAAGGAAGT  
 TTATTGGTCTTTAAATGGCTCAAATTGCAAATAAACAAATCGGGTAGTGGCATCAGCCTA  
 AGACACGTGATGCATCTTTGTCAGTTGGCTTCATAGCACCTCAGTACCCAGGAGAGGAAA  
 GGTCTCAAAGCAAAGTCACAATGTTAGTGGTTAGGACCCCTGGTTAAATAAGACTGTAAT  
 AAGTACACATGGAGATTGCTGGGCCCGCTGGCCAGTGTACATTGGTAACTTGAATTCCG  
 CACATGGCATAGCCTATGAGAAATACGAAATGAAAGATGTACATCTCAAACCCCTTAAAGG  
 ACAAATATTTAACATGAGAAGCTGGATGTAATATCTAAAGAGTGAGTTCCTAAAAAGCC  
 TATTTTTAACTTTACATACACACCTGTTACCTGGAATGCCTGAACACATCTTTGACCTGT  
 TCAAATTAGGACTGAGAAAAAAGAAAAAATACTTTGTTGAATCAACTGCTAGCCCCA  
 CTGCAAAGAGGAAAAAATAAATCGGTCAGTGGCATATTTCCCACTGAAATATGTCCCC  
 AAGTAGCATGCTAGAATCTTCCAGCAGGTACACCACACAATGGTGACACAGCCTAATGT  
 TGGTCACTGTGTGCCACGTTTTCTGCACACTATACCCAGGTTTGATGGCTTGATGCTAAT  
 TCTGAAAATGTAGCTACAGTGTCTTTCATTATAAACAGAAACAGAAAAGATTACTCTAA  
 TATTCCTGTATCAACTGTAATTTATGAATATAATTTAGAATGAACAGATGCAGCATGAAT  
 ATTTCCCGAGCGTTCTATGCAAAGCATTACCCTACTGACATTTCTCCTTGCCCTGCTCG  
 ATTAATACTAACACTACTGCTCCCACTACGAAAGGATTTCCAGGACCAAACANAGAAAGA  
 GGTCCATTCACTACTG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_005402

**Insert Size:**

2560 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:**

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\\_005402.2](#), [NP\\_005393.2](#)

**RefSeq Size:** 2818 bp

**RefSeq ORF:** 621 bp

**Locus ID:** 5898

**UniProt ID:** [P11233](#)

**Cytogenetics:** 7p14.1

**Domains:** ras, RAN, RAS, RHO, RAB

**Protein Families:** Druggable Genome

**Protein Pathways:** Pancreatic cancer, Pathways in cancer

**Gene Summary:** The product of this gene belongs to the small GTPase superfamily, Ras family of proteins. GTP-binding proteins mediate the transmembrane signaling initiated by the occupancy of certain cell surface receptors. This gene encodes a low molecular mass ras-like GTP-binding protein that shares about 50% similarity with other ras proteins. [provided by RefSeq, Jul 2008]