

## Product datasheet for **SC127100**

### RASSF2 (NM\_170774) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | RASSF2 (NM_170774) Human Untagged Clone   |
| Tag:                      | Tag Free  |
| Symbol:                   | RASSF2  |
| Synonyms:                 | CENP-34; RASFADIN   |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u>pCMV6-XL4</u>  |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| Fully Sequenced ORF:      | >OriGene ORF within SC127100 sequence for NM_170774 edited (data generated by NextGen Sequencing) |

```
ATGGACTACAGCCACCAACGTCCTAGTCCCATGTGGACAAGATAAATACATTTCCAAA  
AATGAACTTCTCTTGCATCTGAAGACCTACAACCTGTACTATGAAGGCCAGAATTTACAG  
CTCCGGCACCCGGGAGGAAGAAGACGAGTTCATTGTGGAGGGGCTCCTGAACATCTCCTGG  
GGCCTGCGCCGGCCATTGCGCTGCAGATGCAGGATGACAACGAACGCATTGACCCCT  
CCATCCTCCTCCTGCGACTCTGGCTGTAACCTGGGGGCTCAGGGAACCACTCTGAAG  
CCCCTGACTGTGCCAAAGTTCAGATCTCAGAGGTGGATGCCCGCCGGAGGGTGACCAG  
ATGCCAAGCTCCACAGACTCCAGGGCCTGAAGCCCTGCAGGAGGACACCCACAGCTG  
ATGCGCACACGCAGTGATGTTGGGGTGCCTCGCCGTGGCAATGTGAGGACGCCTAGTGAC  
CAGCGGCGAATCAGACGCCACCGCTTCTCCATCAACGGCCATTTCTACAACCATAAGACA  
TCCGTGTTACACCAGCCTATGGCTCTGTCAACACGTCCTGCATCAACAGCACCATGACC  
ACCCACAGGTCCTGAAGCTGCTGCTCAACAAATTTAAGATTGAGAATTCAGCAGAGGAG  
TTTGCCTTGACGTGGTCCATACGAGTGGTGAGAAACAGAAGCTGAAGGCCACCGATTAC  
CCGCTGATTGCCCGAATCCTCCAGGGCCATGTGAGCAGATCTCCAAAGTGTTCCTAATG  
GAGAAGGACCAGGTGGAGGAAGTACCTACGACGTGGCCAGTATATAAAGTTCGAGATG  
CCGGTACTTAAAAGCTTCATTGAGAAGCTCCAGGAGGAAGAAGATTGGGAAGTAAAGAAG  
CTGATGCGCAAGTACACCGTCTCCGGCTAATGATTGACAGAGGCTGGAGGAGATAGCC  
GAGACCCAGCAACAATCTGA
```

Clone variation with respect to NM\_170774.1  
886 c=>t



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_170774 unedited  
 GGTCAAATTTGTATACGACTCCTATAGGCGGCCGGATTCCGCCGAGGCAAGCGAAGGGTG  
 GAGAGTGATATGAAGAGCGAGAGAAAAGAGAGGACAGCGGACGAGCAGATCCGGTATCTG  
 GAATCCCGGCGCCTAGAACGTGTTTTTCGGGAGAGCAAAGGCTGTGTCTACGGCAGGCTG  
 GGGATATAGCCTCCTCCGATGAAAAGAGAAAGGAAGAATGGACTACAGCCACCAAAC  
 GTCCCTAGTCCCATGTGGACAAGATAAAATACATTTCAAAAATGAACTTCTTTGCATCT  
 GAAGACCTACAACCTGTACTATGAAGGCCAGAATTTACAGCTCCGGCACCGGGAGGAAGA  
 AGACGAGTTCATTGTGGAGGGGCTCCTGAACATCTCTGGGGCCTGCGCCGGCCATTCCG  
 CCTGCAGATGCAGGATGACAACGAACGCATTTCGACCCCTCCATCCTCCTCCTCTGGCA  
 CTCTGGCTGTAACCTGGGGGCTCAGGGAACCACTCTGAAGCCCTGACTGTGCCAAAAGT  
 TCAGATCTCAGAGGTGGATGCCCGCCGGAGGGTGACCAGATGCCAAGCTCCACAGACTC  
 CAGGGGCTGAAGCCCTGCAGGAGGACACCCACAGCTGATGCGCACACGCAGTGATGT  
 TGGGGTGCCTCGCCGTGGCAATGTGAGGACGCCTAGTGACCAGCGCGAATCAGACGCCA  
 CCGCTTCTCCATCAACGGCCATTTCTACAACCATAAGACATCCGTGTTACACCAGCCTA  
 TGGCTCTGTACCAACGTCCGCATCAACAGCACCATGACCACCCACAGGTCCTGAAGCT  
 GCTGCTCAACAATTTAGATTGAGAATCACAGNAGGAGTTGCTTGTACGTGGTCATACGAG  
 TGGTGAGAACAGAGCTGAAGCACCGC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_170774 unedited  
 ACTATGGACCGCGGCACGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTCTTTGAAA  
 GTGCTTTATTTTCAGTAAGATCTAAGTCAGATGCATTAACATATCAAAATGTTACAAAA  
 ATGTATGGCTCCCTTGTGAGGCCCTGTCAGATTATGTTAGATGAGTAAACGCATCAGTG  
 TGTAAGTTCAGAACCAACGTTGAATCAAGTCATGTACCATCGCTGAAAGCAAGTTATA  
 ATTAAGAATACTTCAAGGCTAAAACAATTGGGAAAACCTTTCAGAAACGCTAGCAATT  
 ACACACCAAGAACATCAGCCTGGAACAGGTCTGCGATCTGCAGGGAAGACTCCAAGGT  
 AAAGTGAAGGTTTCCCACCACAGCTTGTGCATCTTGTGCTCAGTTAAATACAGTTAAAC  
 ACAAGGGGCGCTTCAACACCCCTTGTGATAGGGCAGAGCTTTCTATTACATCTGGAAG  
 AAGGGGCGCCACATTCTTATTTTTACATCTCTAGGAAATCATATCTCATCTCATC  
 TGAGCGAAGCAAGACTTTGTGAAAACGATTTAAGTGGAAACGTGAAAATGTGTGCTGCT  
 ATATCAGGAGCGCTTATGGAGATCTCCTGTCTCCTATCTCATTCTCACGTCATGGTTTG  
 GCCGCTGTAAGCACTGAAATTCCTTGTTCATGTAGAAAATTTCTTTTTGGCTGGGCAC  
 AGTGGCTCAGCCTGTAATCCCAACACTTNTGGAGGCCTAGGCGGNTGNNATCAGAGTC  
 AGGAGTTCAAGACAGCCTGNCCAAGATGTGAAACCCACCTCTACTAAACCACACAAAA  
 AATAGCCGGGGCGTGTGGCGGGTCCCTGTTATTCCAGCTACTTGGGAGGGCTGAGACAGA  
 AATCACTTGNACCCANAGCGGATGNTGCANTGAGCTGAGATCCACCCCTGCCCTCAGCCT  
 GGAACAAA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_170774

**Insert Size:**

5480 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\\_170774.1](#), [NP\\_739580.1](#)

**RefSeq Size:** 5307 bp

**RefSeq ORF:** 981 bp

**Locus ID:** 9770

**UniProt ID:** [P50749](#)

**Cytogenetics:** 20p13

**Gene Summary:** This gene encodes a protein that contains a Ras association domain. Similar to its cattle and sheep counterparts, this gene is located near the prion gene. Two alternatively spliced transcripts encoding the same isoform have been reported. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same isoform.