

Product datasheet for **SC109336**

RNF170 (NM_030954) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNF170 (NM_030954) Human Untagged Clone
Tag:	Tag Free
Symbol:	RNF170
Synonyms:	ADSA; SNAX1
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_030954, the custom clone sequence may differ by one or more nucleotides

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ATGGCCAAATATCAAGGTGAAGTTCAAAGTTTGAAACTGGATGATGATTCAGTTATAGAAGGAGTAAGCG
ACCAAGTACTTGTGGCAGTTGTGGTCAGTTTCGCTTTGATTGCTACCCTGGTATATGCACTTTTCAGAAA
TGTACATCAAACATTCACCCAGAAAACCAGGAGCTAGTAAGGGTACTTCGAGAACAGCTTCAAACAGAA
CAGGATGCACCTGCTGCCACTCGACAGCAGTTCTACACTGACATGACTGTCCCATCTGCCTGCACCAAG
CCTCCTTCCCGGTGGAGACCAACTGTGGACATCTTTTTGTGGTGCCTGCATTATTGCTTACTGGCGATA
TGGTTCATGGCTTGGGGCAATCAGTTGTCCAATCTGTAGACAAACGGTAACCTTACTCCTAACAGTATTT
GGTGAAGATGATCAGTCTCAGGATGTTCTGAGATTGCATCAGGATATTAATGATTATAACCGGAGATTCT
CAGGGCAACCCAGATCTATTATGGAGAGAATTATGGATCTACCCACTTTACTGAGGCATGCATTCAGGGA
AATGTTTTTCAGTCGGGGCCTTTTCTGGATGTTTCGCATCAGGATAATACTTTGTTAATGGGAGCTTTT
TTCTATCTTATACACCTCTAGATTTTGTACCTGAAGCCTTGTGGAACTTAGGCTTTCTAGATGATT
TCTTTGCATCTTTTATTGCTTATCTACATCTCTATTATGTATCGAGAAGTGATAACCCAAAGGCTAAC
TAGATGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_030954 unedited
 TTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGAGGGGTGGCGGGA
 GCGGTCCTGGAAATAATCTGTCTCTGTGCGCCGGGAAGTGGCGAGGTAGTTTCCTTCGCGG
 TGGAGAGACCTGGAAATGGCCAAATCAAGGTGAAGTTCAAAGTTTAAAAGTGGATGATG
 ATTCAGTTATAGAAGGAGTAAGCGACCAAGTACTTGTGGCAGTTGTGGTCAAGTTTCGCTT
 TGATTGCTACCCTGGTATATGCACTTTTCAGAAATGTACATCAAAACATTCAACCCAGAAA
 ACCAGGAGCTAGTAAGGGTACTTCGAGAACAGCTTCAAACAGAACAGGATGCACCTGCTG
 CCACTCGACAGCAGTTCTACACTGACATGTAAGTGTCCCATCTGCCTGCACCAAGCCTCCT
 TCCCGGTGGAGACCAACTGTGGACATCTTTTTTGTGGTGCCTGCATTATTGCTTACTGGC
 GATATGGTTTCATGGCTTGGGGCAATCAGTTGTCCAATCTGTAGACAAACGGTAACCTTAC
 TCCTAACAGTATTTGGTGAAGATGATCAGTCTCAGGATGTTCTGAGATTGCATCAGGATA
 TTAATGATTATAACCGGAGATTCTCAGGGCAACCCAGATCTATTATGGAGAGAATTATGG
 ATCTACCCACTNTACTGAGGCATGCATTANGAANATGTTNTCAGTCGGGGGCCTTTTCT
 GGATGTTTCGCATCAGGATAATACTTTGTTAATGGGAGCTTTTTTCTATCTTATATCAC
 CTCTAGATTNTGTACCTGAAGCCCTGTTTGAATNCTAGGCTTTCTAGATGAATTCCTTGG
 GCATCTTTTTATTGGCTATCTACATCTCTATTATGTATCGAGAAGTGATACCCCAAGGGC
 TACTAGATC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_030954 unedited
 GGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGAGAGGGAGTCTCACTCTGTTG
 CCCAGGCTGGAGTGCAGTGGCGCAATCCACCTCCTGGGTTTACGCCATTCTTCTGCCTCA
 GCCTCCCAGTAGCTGGGACTACAGGCGCTGCCACCACGCTGGCTAATTTTTTGTATT
 TTTAGTAGAGACGGGTTTCACCATGTTAGCCAGGATGGTCTGATCTCCTGACCTTGTG
 ATCTACCCGCCTCAGCCTCCCAAAGTGCTAGGATTACAGGCGTGAGCCACCCCGCCGGC
 CATGTTTTTCATCTTAATTCTTCTATTGATTAATGTGTTCTGTAAACTAGAATATGAT
 ATCGAAGTATGAAGTTCAAGTTTCTTTTCAGTTTCAGCTGATAGCAAATAATTAATTA
 TACCAGAATGAAAAGGCAGAAGTCTCCAAATGCACAAAACCTTAGCTAGCACTAAAAGAA
 ATACTGAATTTCCCAATAGTATATAATATTTTATTGGAACAAAATATTTAGATGAGT
 TTCACAGCTATATATTATCATATAGGTACCTGCTGAGAAGGATAAGATGGATAAACTGAC
 ATTTAACAAATATTTTACTATACATCTAATTAATCTAAGTAATTTCTGGGAAAAGAAAATA
 TATAAAAGCATCCCTTTTATATAATCCATATTTTTTCCAGACAACATAGAATCAAGAT
 ACCACTGGTAGATCATTATAATTCTAACTTAATATTANGAACTCAAACATGAAAATTC
 CAGTTATACCTAGGTATTTGTCAATGATATCAAATGGTGTCTTATAGGGTTTATATTGNG
 AGAAATACTCACTGCTCATTGCTTTACTGCATGGNCCTCTGNNTGATGTCACATACCTCA
 AAATCTATAACTCAATTGTTTTTTTTTANTACCTTTGGTTTACTTTCCACAAAAGAA
 AGGAAAGCCTAA

Restriction Sites:

NotI-NotI

ACCN:

NM_030954

Insert Size:

1770 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_030954.2](#), [NP_112216.2](#)

RefSeq Size: 1851 bp

RefSeq ORF: 777 bp

Locus ID: 81790

UniProt ID: [Q96K19](#)

Cytogenetics: 8p11.21

Domains: RING

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene encodes a RING domain-containing protein that resides in the endoplasmic reticulum (ER) membrane. This protein functions as an E3 ubiquitin ligase and mediates ubiquitination and processing of inositol 1,4,5-trisphosphate (IP3) receptors via the ER-associated protein degradation pathway. It is recruited to the activated IP3 receptors by the ERLIN1/ERLIN2 complex to which it is constitutively bound. Mutations in this gene are associated with autosomal dominant sensory ataxia. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jun 2012]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same isoform (a). 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.