

Product datasheet for **SC326748**

RNF170 (NM_001160225) Human Untagged Clone

Product data:

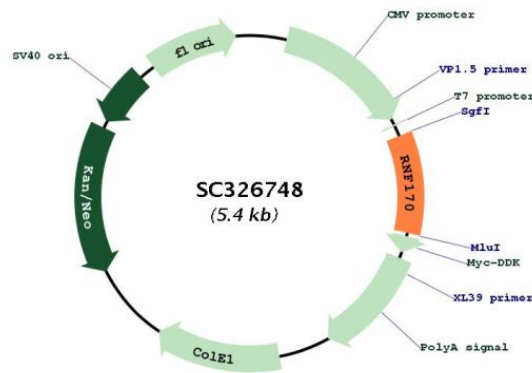
Product Type:	Expression Plasmids
Product Name:	RNF170 (NM_001160225) Human Untagged Clone
Tag:	Tag Free
Symbol:	RNF170
Synonyms:	ADSA; SNAX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326748 representing NM_001160225. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC
ATGTACTGTCCCATCTGCCTGCACCAAGCCTCCTCCCGGTGGAGACCAACTGTGGACATCTTTTTGT
GGTGCCTGCATTATTGCTTACTGGCGATATGGTTCATGGCTTGGGGCAATCAGTTGTCCAATCTGTAGA
CAAACGGTAACCTTACTCCTAACAGTATTTGGTGAAGATGATCAGTCTCAGGATGTTCTGAGATTGCAT
CAGGATATTAATGATTATAACCGGAGATTCTCAGGGCAACCCAGATCTATTATGGAGAGAATTATGGAT
CTACCCACTTTACTGAGGCATGCATTAGGAAATGTTTTAGTCGGGGCCTTTTCTGGATGTTTCGC
ATCAGGATAAATACTTTGTTTAAATGGGAGCTTTTTCTATCTTATATCACCTCTAGATTTGTACCTGAA
GCCTTGTTTGGAAATTCTAGGCTTTCTAGATGATTTCTTTGTCATTTTTATTGCTTATCTACATCTCT
ATTATGTATCGAGAAGTGATAACCCAAAGGCTAACTAGATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:


ACCN:	NM_001160225
Insert Size:	525 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).
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_001160225.1](#)

RefSeq Size: 3785 bp

RefSeq ORF: 525 bp

Locus ID: 81790

UniProt ID: [Q96K19](#)

Cytogenetics: 8p11.21

Protein Families: Druggable Genome, Transmembrane

MW: 20.3 kDa

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 (4) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The resulting isoform (c) has a shorter N-terminus compared to 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.