

Product datasheet for **SC326830**

RNF170 (NM_001160223) Human Untagged Clone

Product data:

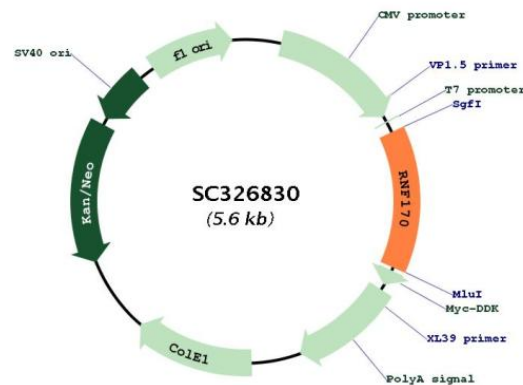
Product Type:	Expression Plasmids
Product Name:	RNF170 (NM_001160223) Human Untagged Clone
Tag:	Tag Free
Symbol:	RNF170
Synonyms:	ADSA; SNAX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326830 representing NM_001160223. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGCCAAATATCAAGGTGAAGTTCAAAGTTTGAACTGGATGATGATTCAGTTATAGAAGGAGTAAGC
GACCAAGTACTTGTGGCAGTTGTGGTCAGTTTCGCTTTGATTGCTACCCTGGTATATGCACTTTTCAGA
AATGTACATCAAACATTCACCCAGAAAACCAGGAGCTAGTAAGGGTACTTCGAGAACAGCTTCAAACA
GAACAGGATGCACCTGCTGCCACTCGACAGCAGTTCTACACTGACATGTACTGTCCCATCTGCCTGCAC
CAAGCCTCCTCCCGGTGGAGACCAACTGTGGACATCTTTTTGTGGTGCCTGCATTATTGCTTACTGG
CGATATGGTTCATGGCTTGGGGCAATCAGTTGTCCAATCTGTAGACAAACGGTAACCTTACTCCTAAC
GTATTTGGTGAAGATGATCAGTCTCAGGATGTTCTGAGATTGCATCAGGATTAATGATTATAACCGG
AGATTCTCAGGGCAACCCAGATCTATTATGGAGAGAATTATGGATCTACCCACTTACTGAGGCATGCA
TTCAGGGAAATGTTTTAGTCCGGGGCCTTTTCTGGATGTTTCGCATCAGGATAACTTTGTTTAAATG
GGAGCTTTTTTCTATCTTATACCTCTAGATTTGTACCTGAAGCCTTGTGGAAATCTAGGCTTT
CTAGATGATTTCTTTGTATCTTTTTATTGCTTATCTACATCTCTATTATGTATCGAGAAGTGATAACC
CAAAGGCTAACTAGATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001160223

Insert Size: 777 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_001160223.1](#)

RefSeq Size: 4136 bp

RefSeq ORF:	777 bp
Locus ID:	81790
UniProt ID:	Q96K19
Cytogenetics:	8p11.21
Protein Families:	Druggable Genome, Transmembrane
MW:	29.8 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 (1) represents the longest transcript and encodes the longest isoform (a). 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.