

Product datasheet for **RC228756**

RNF170 (NM_001160224) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RNF170 (NM_001160224) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RNF170
Synonyms: ADSA; SNAX1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC228756 representing NM_001160224
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

**ATGCCAAATATCAAGGTGAAGTTCAAAGTTTAAACTGGATGATGATTCAGTTATAGAAGGAGTAAGCG
ACCAAGTACTTGTGGCAGTTGTGGTCAGTTTCGCTTTGATTGCTACCCTGGTATATGCACATTTTCAGAAA
TGTACATCAAAACATTCACCCAGAAAACCAGGAGCTAGTAAGGGTACTTCGAGAACAGCTTCAAACAGAA
CAGGATGCACCTGCTGCCACTCGACAGCAGTTCTACACTGACATGTACTGTCCATCTGCCTGCACCAAG
CCTCCTTCCCGGTGGAGACCAACTGTGGACATCTTTTTTGTGGTGCCTGCATTATTGCTTACTGGCGATA
TGGTTCATGGCTTGGGGCAATCAGTTGTCCAATCTGTAGACAAACGGGTTTCATCAGAGAAGAGCAGCCGT
GCAAGTGAGCAGACCCATCAAGAGGCTGTTGCATGCCTGGACACACAGAACTCTCCTGCCTGTACAGTCG
GATGCAGGTCAGGGCCTCAGCATATACCCATGACCGAATGCTCCCTTCAGCCTCACCACGTTTATGCTT
CACGTTACTAGACTGTGTTTCCATCCTTTGGTTCTCAGGT**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence: >RC228756 representing NM_001160224
Red=Cloning site Green=Tags(s)

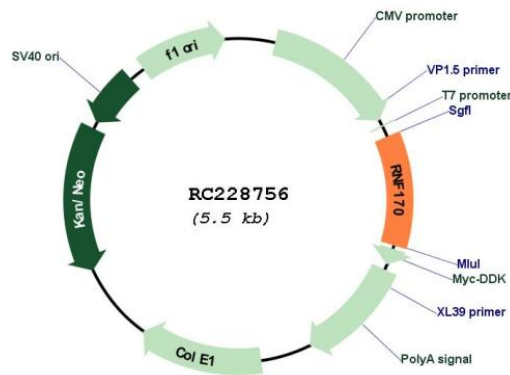
MAKYQGEVQSLKLDSDSVIEGVSDQVLVAVVVSFALIALVLYALFRNVHQNIHPENQELVRVLRQLQTE
QDAPAATRQQFYTDMYCPICLHQASFPVETNCGHLFCGACIIAYWRYGSLWGAISCPICRQTGSSEKSSR
ASEQTHQEAVACLDTQNSPACTVGCRRSGPQHIPHDRMLPSASPRLCFTLLDCVSIWFSG

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_001160224

ORF Size: 600 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001160224.2](#)

RefSeq ORF: 603 bp

Locus ID: 81790

UniProt ID: [Q96K19](#)

Cytogenetics: 8p11.21

Protein Families: Druggable Genome, Transmembrane

MW: 22 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]