

Product datasheet for **RG228756**

RNF170 (NM_001160224) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RNF170 (NM_001160224) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RNF170
Synonyms: ADSA; SNAX1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG228756 representing NM_001160224
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAAATATCAAGGTGAAGTTCAAAGTTTAACTGGATGATGATTCAGTTATAGAAGGAGTAAGCG
ACCAAGTACTTGTGGCAGTTGTGGTCAGTTTCGCTTTGATTGCTACCCTGGTATATGCACTTTTAGAAA
TGTACATCAAACATTCACCCAGAAAACCAGGAGCTAGTAAGGGTACTTCGAGAACAGCTCAAACAGAA
CAGGATGCACCTGCTGCCACTCGACAGCAGTTCTACACTGACATGTACTGTCCATCTGCCTGCACCAAG
CCTCCTCCCGGTGGAGACCAACTGTGGACATCTTTTTTGTGGTGCCTGCATTATTGCTTACTGGCGATA
TGGTTCATGGCTTGGGGCAATCAGTTGTCCAATCTGTAGACAAACGGGTTTCATCAGAGAAGAGCAGCCGT
GCAAGTGAGCAGACCCATCAAGAGGCTGTTGCATGCCTGGACACACAGAACTCTCCTGCCTGTACAGTCG
GATGCAGGTCAGGGCCTCAGCATATACCCCATGACCGAATGCTCCCTCAGCCTCACCACGTTTATGCTT
CACGTTACTAGACTGTGTTTCCATCCTTTGGTTCTCAGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228756 representing NM_001160224
Red=Cloning site Green=Tags(s)

MAKYQGEVQSLKLDSDSVIEGVSDQVLVAVVVSFALIALVYALFRNVHQNIHPENQELVRVLRQLQTE
QDAPAAATRQQFYTDMYCPICLHQASFPVETNCGHLFCGACIIAYWRYGSWLGAISCPICRQTGSSEKSSR
ASEQTHQEAVACLDTQNSPACTVGCGRSGPQHIPHDRMLPSASPRLCFTLLDCVSIWFSG

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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 Size: 2020 bp

RefSeq ORF: 603 bp

Locus ID: 81790

UniProt ID: [Q96K19](#)

Cytogenetics: 8p11.21

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]