

Product datasheet for SC325502

RNF185 (NM_001135825) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNF185 (NM_001135825) Human Untagged Clone
Tag:	Tag Free
Symbol:	RNF185
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC325502 representing NM_001135825. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
 ATGGCAAGCAAGGGGCCCTCGGCTCTGCATCTCCTGAGAACTCCAGTGCAGGGGGGCCAGTGGGAGC
 AGCAATGGCGCTGGCGAGAGCGGAGGGCAGGACAGCACTTTCGAGTGCAACATCTGCTTGGACACAGCC
 AAGGATGCCGTATCAGCCTGTGTGGCCACCTCTTCTGTTGGCCGTGTTTACATCAGGGATTTCAAGGA
 TTTGGATTTGGAGATGGTGGCTTCCAGATGTCTTTGGAATTGGGCAATTCCTTTGGGATATTTGCC
 ACAGCATTTAATAAATGATGGGCGGCCCTCCTCCAGCTGTCCCTGGGACACCCAGTATGTGGACGAG
 CAGTTCCTGTACGCCTCTTCTATTTGTGGCCCTGGTGATCATGTTCTGGCTCCTGATTGCCAA
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001135825
Insert Size:	411 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.


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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:	<ol style="list-style-type: none"> 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:	<u>NM_001135825.1</u>
RefSeq Size:	3050 bp
RefSeq ORF:	411 bp
Locus ID:	91445
UniProt ID:	<u>Q96GF1</u>
Cytogenetics:	22q12.2
Protein Families:	Druggable Genome, Transmembrane
MW:	14.1 kDa
Gene Summary:	<p>E3 ubiquitin-protein ligase that regulates selective mitochondrial autophagy by mediating 'Lys-63'-linked polyubiquitination of BNIP1 (PubMed:21931693). Acts in the endoplasmic reticulum (ER)-associated degradation (ERAD) pathway, which targets misfolded proteins that accumulate in the endoplasmic reticulum (ER) for ubiquitination and subsequent proteasome-mediated degradation (PubMed:27485036). Protects cells from ER stress-induced apoptosis (PubMed:27485036). Responsible for the cotranslational ubiquitination and degradation of CFTR in the ERAD pathway (PubMed:24019521). Preferentially associates with the E2 enzymes UBE2J1 and UBE2J2 (PubMed:24019521).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) is lacking two in-frame coding exons compared to transcript variant 1, resulting in a shorter isoform (2) missing a 56 aa protein segment compared to isoform 1.</p>