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Product datasheet for SC306192

RNF145 (NM_144726) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	RNF145
Vector:	pCMV6 series

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_144726, the custom clone sequence may differ by one or more nucleotides

ATGATGAGAAACCACAGAATTGCTAGTAGTTTATGTGGAGATCAGGTCTTCTCCAAGAAA
AAAAAAAAGAAAAAAAAAAACAACATGGCTGCAAAGGAGAAACTGGAGGCAGTGTTAAAT
GTGGCCCTGAGGGTGCCAAGCATCATGCTGTTGGATGTCCTGTACAGATGGGATGTCAGC
TCCTTTTTCCAGCAGATCCAAAGAAGTAGCCTTAGTAATAACCCTCTTTTCCAGTATAAG
TATTTGGCTCTTAATATGCATTATGTAGGTTATATCTTAAGTGTGGTGCTGCTAACATTG
CCCAGGCAGCATCTGGTTCAGCTTTATCTATATTTTTTGACTGCTCTGCTCCTCTATGCT
GGACATCAAATTTCCAGGGACTATGTTCGGAGTGAACTGGAGTTTGCCTATGAGGGACCA
ATGTATTTAGAACCTCTCTCTATGAATCGGTTTACCACAGCCTTAATAGGTCAGTTGGTG
GTGTGTACTTTATGCTCCTGTGTCATGAAAACAAAGCAGATTTGGCTGTTTTCAGCTCAC
ATGCTTCCTCTGCTAGCACGACTCTGCCTTGTTCCTTTGGAGACAATTGTTATCATCAAT
AAATTTGCTATGATTTTTACTGGATTGGAAGTTCTCTATTTTCTTGGGTCTAATCTTTTG
GTACCTTATAACCTTGCTAAATCTGCATACAGAGAATTGGTTCAGGTAGTGGAGGTATAT
GGCCTTCTCGCCTTGGGAATGTCCCTGTGGAATCAACTGGTAGTCCCTGTTCTTTTCATG
GTTTTCTGGCTCGTCTTATTTGCTCTTCAGATTTACTCCTATTTCAGTACTCGAGATCAG
CCTGCATCACGTGAGAGGCTTCTTTTCCTTTTTCTGACAAGTATTGCGGAATGCTGCAGC
ACTCCTTACTCTCTTTTGGGTTTGGTCTTCACGGTTTCTTTTGTTGCCTTGGGTGTTCTC
ACACTCTGCAAGTTTTACTTGCAGGGTTATCGAGCTTTCATGAATGATCCTGCCATGAAT
CGGGGCATGACAGAAGGAGTAACGCTGTTAATCCTGGCAGTGCAGACTGGGCTGATAGAA
CTGCAGGTTGTTCATCGGGCATTCTTGCTCAGTATTATCCTTTTCATTGTCGTAGCTTCT
ATCCTACAGTCTATGTTAGAAATTGCAGATCCTATTGTTTTGGCACTGGGAGCATCTAGA
GACAAGAGCTTGTGGAAACACTTCCGTGCTGTAAGCCTTTGTTTATTTTTATTGGTATTC
CCTGCTTATATGGCTTATATGATTTGCCAGTTTTTCCACATGGATTTTTGGCTTCTTATC
ATTATTTCCAGCAGCATTCTTACCTCTCTTCAGGTTCTGGGAACACTTTTTATTTATGTC
TTATTTATGGTTGAGGAATTCAGAAAAGAGCCAGTGGAAAACATGGATGATGTCATCTAC
TATGTGAATGGCACTTACCGCCTGCTGGAGTTTCTTGTGGCCCTCTGTGTGGTGGCCTAT
GGCGTCTCAGAGACCATCTTTGGAGAATGGACAGTGATGGGCTCAATGATCATCTTCATT
CATTCCTACTATAACGTGTGGCTTCGGGCCCAGCTGGGGTGGAAGAGCTTTCTTCTCCGC
AGGGATGCTGTGAATAAGATTAAATCGTTACCCATTGCTACGAAAGAGCAGCTTGAGAAA
CACAATGATATTTGTGCCATCTGTTATCAGGACATGAAATCTGCTGTGATCACGCCTTGC
AGTCATTTTTTCCATGCAGGCTGTCTTAAGAAATGGCTGTATGTCCAGGAGACCTGCCCT
CTGTGCCACTGCCATCTGAAAAACTCCTCCCAGCTTCCAGGATTAGGAACTGAGCCAGTT
CTACAGCCTCATGCTGGAGCTGAGCAAAACGTCATGTTTCAGGAAGGTACTGAACCCCCA
GGCCAGGAGCATACTCCAGGGACCAGGATACAGGAAGGTTCCAGGGACAATAATGAGTAC
ATTGCCAGACGACCAGATAACCAGGAAGGGGCTTTTGACCCCAAAGAATATCCTCACAGT
GCGAAAGATGAAGCACATCCTGTTGAATCAGCCTAG

Restriction Sites: Please inquire

ACCN: NM_144726

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_144726.1, NP_653327.1
RefSeq Size:	3362 bp
RefSeq ORF:	2076 bp
Locus ID:	153830
UniProt ID:	Q96MT1
Cytogenetics:	5q33.3
Domains:	RING
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	E3 ubiquitin ligase that catalyzes the direct transfer of ubiquitin from E2 ubiquitin-conjugating enzyme to a specific substrate. In response to bacterial infection, negatively regulates the phagocyte oxidative burst by controlling the turnover of the NADPH oxidase complex subunits. Promotes monoubiquitination of CYBA and 'Lys-48'-linked polyubiquitination and degradation of CYBB NADPH oxidase catalytic subunits, both essential for the generation of antimicrobial reactive oxygen species. Involved in the maintenance of cholesterol homeostasis. In response to high sterol concentrations ubiquitinates HMGCR, a rate-limiting enzyme in cholesterol biosynthesis, and targets it for degradation. The interaction with INSIG1 is required for this function. In addition, triggers ubiquitination of SCAP, likely inhibiting its transport to the Golgi apparatus and the subsequent processing/maturation of SREBPF2, ultimately downregulating cholesterol biosynthesis.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) has an alternate 5' exon, as compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus, as compared to isoform 1.