

Product datasheet for SC128219

RNF111 (NM_017610) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNF111 (NM_017610) Human Untagged Clone
Tag:	Tag Free
Symbol:	RNF111
Synonyms:	ARK; hRNF111
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC128219 sequence for NM_017610 edited (data generated by NextGen Sequencing)

ATGTCTCAATGGACTCCTGAATATAACGAGCTCTACACCTTAAAAGTGGATATGAAGAGT
GAGATTCCTTCTGATGCACCAAGACACAGGAGAGTCTGAAAGGGATCCTTTTGCATCCA
GAGCCCATTTGGGCGAGCCAAAAGTTTTCTGCAGGAGTTGAGATGATTAATAGTAAAGTG
GGGAATGAATTCTCTCACCTGTGTGATGATTCTCAAAGCAAGAGAAGGAAATGAATGGT
AACCAGCAAGAACAAGAAAAAGTCTCGTTGTGAGGAAAAACGCAAGCCAGCAGGCT
GGCCCTTCGTATGTGCAGAATTGTGTTAAAGAAAACAGGGAATATTAGGACTGAGGCAA
CACCTAGGACACCAAGTGATGAAGATAATGATTCCTCTTTAGTGATTGCTTTCTTCT
CCTTCATCTAGTCTGCATTTTGGAGATTCTGATACTGTGACTTCAGATGAGGATAAGAA
GTCTCTGTAAGACATTCCAGACCATTTTGAATGCTAAAAGTAGAAGCCATAGTGCACGG
TCTCATAGTGGCTCGGACTGAGACAGAATCTGTATCGGGATTGTTAATGAAAAGACCC
TGTTTACATGGCAGTTTCGTTACGGAGACTTCCATGCAGAAAAGAGATTTGTAAAAATAAT
TCCTCAGAGAGGACACAGAAAACAAAAGAGAGGATATTAATGCAGAGGAAGAAACGAGAA
GTGTTAGCTCGAAGAAAATATGCCTTGCTACCTAGTTCTAGTAGTTCCAGTGAGAATGAC
CTCAGCAGTGAATCCTCTTCTAGCTCATCAACTGAAGGAGAAGAAGATTTGTTTGTCT
GCCAGTGAAGAACCAAAAACAATCCAGCTGTTCCCTCAGGAAGTATTGATGAAGATGTT
GTGGTGATAGAAGCTTCTCCACTCCCCAGGTTACTGCCAATGAAGAAATTAATGTTACC
TCAACTGACAGTGAAGTGGAGATTGTAACAGTTGGAGAAAGCTATCGGTCTCGTTCAACC
CTTGGACACTCCAGATCTCATTGGAGCCAGGGTTCAAGTTCTCATGCAAGTCGGCCACAG
GAGCCACGGAACCGCAGTAGGATTTCTACTGTTATACAGCCCTTGAGGCAGAATGCAGCA
GAAGTTGTGGACCTTACCGTTGATGAAGATGAACCTACTGTAGTACCAACCACTTCTGCA
AGAATGGAATCACAAGCTACTAGCGCTTCCATTAACAATTCAAATCCATCTACCTCTGAG
CAGGCCTCTGATACTGCTTCAGCTGTCAACAGTAGCCAACTTCCACAGTGTGAGAGCT
TCAGCTACTCTTACAAGCAATAGTACCACTGGCACTTCTATAGGAGATGACTCAAGGAGA
ACTACATCTAGTGCTGTAAACGAAACTGGCCCTCTGCAATGCCAAGGTTACCTTCTCTGC
TGTCCTCCAGCACTCACCATGTGGAGGGTCGTACAGAACCAACCATGCATTAGGACATCCT



[View online »](#)

CATACAAGTTGCTTTCAGCAGCATGGTCACCATTTTCAACATCATCACCACCACCACCAT
 ACTCCCCACCCAGCTGTCCCAGTTTCTCCTTCTTTAGTGATCCTGCTTGCCCTGTGGAA
 AGACCTCCACAAGTACAAGCACCTTGTGGAGCAAATAGTAGTTCTGGTACCAGCTATCAT
 GAACAGCAGGCATTGCCAGTAGACCTGAGCAACAGTGGTATCAGAAGTCATGGAAGTGGC
 AGTTTTTCATGGAGCATCTGCATTTGACCCCTGCTGCCCTGTTTCTTCTCCCGAGCTGCA
 ATCTTTGGCCATCAGGCCGCTGCTGCTGCCCAAGTCAACCTTTATCATCAATAGATGGC
 TATGGATCAAGCATGGTTGCGCAGCCCCAGCCCCAGCCCCCTCCACAGCCCTCTCTCTCA
 TCATGTGCACATTACATGCCACCCCTTATGCCTCTTTGACAAGGCCACTTCATCATCAA
 GCTTCTGCCTGCCCGCATTCTCATGAAACCCCTCCTCAGACTCAGCCTCCGCCTCAA
 GTGGATTATGTTATTCCTCATCCTGTACATGCTTTCCATTCTCAAATATCTTCTCATGCA
 ACATCTCATCCTGTGGCACCACCACCAACTCACTTAGCCAGTACAGCTGCACCAATC
 CCTCAGCATCTTCTCTACACACCAGCCAATTCGCACCATATTCAGCCACAGCACCT
 CCAGCACAGAGACTGCATCCTCATGAAGTGATGCAGAGGATGGAAGTTCAAAGGAGGAGG
 ATGATGCAGCATCCAACGCGGGACATGAACGCCCCCACCCTCCACATAGGATGCAC
 CCAAATATGGTCATGGGCATCATATTCATGTGCCTCAGACTATGTCCTCACATCCTCGA
 CAGGCTCCAGAGAGGTCTGCCTGGGAAGTGGGAATTGAAGCTGGAGTGACTGCAGCTACT
 TATACACCTGGTGCATTGCATCCTCACTTGGCCATTATCACGCACCTCCTCGACTTCAT
 CACTTACAATTAGGAGCTCTTCTTTAATGGTTCTGATATGGCAGGCTATCCTCACATC
 CGTTACATTTTCATCAGGATTGGATGGAACATCATTAGAGGTCCTTTCAGGGGCAATTTT
 GAGGAACTGATTCATTTGGAAGAAAGATTAGGCAATGTCAATCGTGGAGCATCCCAGGGG
 ACAATTTGAAAGATGTACATATCCACATAAATACAAAAAGAGGAACTGCACTGCAAAACA
 GATGGGGAAGAAGGACTGAGGAAGACACAGAGGAAAAATGTACTATCTGTTTGTCTATT
 TTAGAGGAAGGTGAAGATGTGAGACGCTTCCATGTATGCACCTTTTCCACCAAGTGTGT
 GTTGACCAATGGTTGATTACCAATAAGAAGTGCCCATATGCAGAGTGGACATTGAGGCC
 CAGCTGCCAAGTGAAAGTTGA

Clone variation with respect to NM_017610.6
 1056 c=>a;1701 g=>a

**5' Read Nucleotide
 Sequence:**

>OriGene 5' read for NM_017610 unedited
 TTCGGCACGAGTAGGGGAGCAGCGCAGTGGCGGCGACGGCGAGGAGGTGTTTCGGTTTGC
 GCAGCGTAGAAAACGCCCCGAGCTTCAGAGAAGGAGTTCTTGTGGGACCAAATTAGGCATT
 CTGAACCCACGCCGGCTTAGCTGGGCCGAGTCCAGGCGCTGCCGCACGTACAGTTTTGGT
 GGCGGTGACAGACACTGCTCTTGACTCTAGGGGCTATTAGGCCGACGTCTGAGGCGCAG
 ATCGCTGGCTCTCGACGCATTACTCTTTACGCCTTACATTTCTGTCTTCTTCTGGGTC
 AGTGATTTCCCGACCTGGAAGAGAAGAGGGTGGCTAATGATTAAGGCTTTCCTTAAAGT
 TTCCCATGTCTCAATGGACTCCTGAATATAACGAGCTCTACACCTTAAAGTGGATATGA
 AGAGTGAGATTCTTCTGATGCACCAAAGACACAGGAGAGTCTGAAAGGGATCCTTTTGC
 ATCCAGAGCCCATTGGGGCAGCCAAAAGTTTTCTGCAGGAGTTGAGATGATTAATAGTA
 AAGTGGGGAATGAATTCTCTCACCTGTGTGATGATTCTCAAAAGCAAGAGAAGGAAATGA
 ATGGTAACCAGCAAGAACAAGAAAAAGTCTCGTTGTGAGGAAAAAANCAGCAAGCCAGC
 AGGCTGGCCCTTCGTATGTGCAGAATTTGTGTAAGAAAAACCAGGGAATATTANGACTGA
 NGGCACACCTANGGACACCAAGTGATGAANGATATGATNTCTCTTTAGTGATTGTCTTT
 CTCT

3' Read Nucleotide Sequence:	>OriGene 3' genomic read for NM_017610 unedited <pre> CTACCTCGAACTGTCTCCCGAACAGGTACAGCACTGGGGTAGGGTCACAGGGAATGCCA CTCCTTTATCTGTTAAGCAAATACAAAGCCGTGGCTTAATGCAAGCTTATTGACATCTTC ACATATGTATCCATGGAGAACATGTTCTCCACATACAGACAGTGATATTACTGACTGGA TGCATTTGCAATCTGGGGCATATTAAGCATATTTAAACAAATAAAATTAGGCTATCCTGT ATATGAAAGTATCTTGATAATAATATGCATCCTGAAGTAAATTTAACTTCCTCCAAAGG AGAAATGTTAGTATGTTAACTTAACTTTATATTCTATATTATGCAGTAAATCTTAACTAT AGAAATTAATAATTTTAAATCAATGATCGACTCTTGAAATGTATGAAGTGGGAGTATAT AACCATAGCAACAGTAGGTTGACAGTATAATTTGTGCCTCACAGTATCTGCAGATTTACT GTTTTCAAGTTTAGAGAGAAATAAAACAAGACACATGTAGATTGAGCTGACTTTATTTAC CTTTAACTAATAAAAAATCCCTTAAAGTGATCCTGGGACCTTTATAAGTTCTATGAATG CACAGATACCTGCCAGTGACTTAAATCCAAATCTTGACTTAATGTGTCTACAAAATCAA TGTAAGCAGATATCTTAACTTTTCGTGCTTAGCAGAAGACAACAAATTCTACATGTCTTT TTTCAGTTTCCCTAAATTTTTTAAATCTGCAAGTATGTACAATCTACCTAATTGGAAT TAATATTTAGTGTTTCATCAGAGCTGATTCACAGCAACAAAACTG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_017610
Insert Size:	4700 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).
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:	<u>NM_017610.6</u> , <u>NP_060080.6</u>
RefSeq Size:	5556 bp
RefSeq ORF:	2961 bp
Locus ID:	54778
UniProt ID:	<u>Q6ZNA4</u>
Cytogenetics:	15q22.1-q22.2
Domains:	RING
Protein Families:	Druggable Genome

Gene Summary:

The protein encoded by this gene is a nuclear RING-domain containing E3 ubiquitin ligase. This protein interacts with the transforming growth factor (TGF) -beta/NODAL signaling pathway by promoting the ubiquitination and proteosomal degradation of negative regulators, like SMAD proteins, and thereby enhances TGF-beta target-gene transcription. As a modulator of the nodal signaling cascade, this gene plays a critical role in the induction of mesoderm during embryonic development. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2012]

Transcript Variant: This variant (2) lacks an in-frame segment in the 3' coding region, compared to variant 1, which results in a shorter protein (isoform 2), compared to isoform 1.