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Product datasheet for RC209308

RNF111 (NM_017610) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNF111 (NM_017610) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RNF111
Synonyms:	ARK; hRNF111
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC209308 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTCAATGGACTCCTGAATATAAGGAGCTCTACACCTTAAAAGTGGATATGAAGAGTGAGATTCCTT
CTGATGCACCAAAGACACAGGAGAGTCTGAAAGGGATCCTTTTGCATCCAGAGCCCATTGGGGCAGCCAA
AAGTTTTCCTGCAGGAGTTGAGATGATTAATAGTAAAGTGGGGAATGAATTCTCTCACCTGTGTGATGAT
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CCTTCATCTAGTCTGCATTTTGGGGATTCTGATACTGTGACTTCAGATGAGGATAAAGAAGTCTCTGTAA
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TGAGAATGACCTCAGCAGTGAATCCTCTTCTAGCTCATCAACTGAAGGAGAAGAAGATTTGTTTGTTTCT
GCCAGTGAAAACCACCAAAACAATCCAGCTGTTCCCTCAGGAAGTATTGATGAAGATGTTGTGGTGATAG
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GATTGTAACAGTTGGAGAAAGCTATCGGTCTCGTTCAACCCTTGGACACTCCAGATCTCATTGGAGCCAG
GGTTCCAGTTCTCATGCAAGTCGGCCACAGGAGCCACGGAACCGCAGTAGGATTTCTACTGTTATACAGC
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GGAAACTGGCCCTCCTGCAATGCCAAGGTTACCTTCCTGCTGTCCCCAGCACTCACCATGTGGAGGGTCG

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TCACAGAACCACCATGCATTAGGACATCCTCATACAAGTTGCTTTCAGCAGCATGGTCACCATTTTCAAC
ATCATCACCACCACCACCATACTCCCCACCCAGCTGTCCCAGTTTCTCCTTCCTTTAGTGATCCTGCTTG
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209308 protein sequence
Red=Cloning site Green=Tags(s)

MSQWTPEYKELYTLKVDMKSEIPSDAPKTQESLKGILLHPEPIGAAKSFPAGVEMINSKVGNEFSHLCDD
SQKQEKEMNGNQQEQEKSLVVRKKRKSQQAGPSYVQNCVKENQGILGLRQHLGTPSDEDNDSSFSDCLSS
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PCRKRFVKNNSSQRTQKQKERILMQRKKREVLARRKYALLPSSSSSSENDLSSESSSSSSTEGEEDLFVS
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SQNHHALGHPHTSCFQQHGHHFQHHHHHHHTPHPAVPVSPSFSDPACPVERPPQVQAPCGANSSSGTSYH
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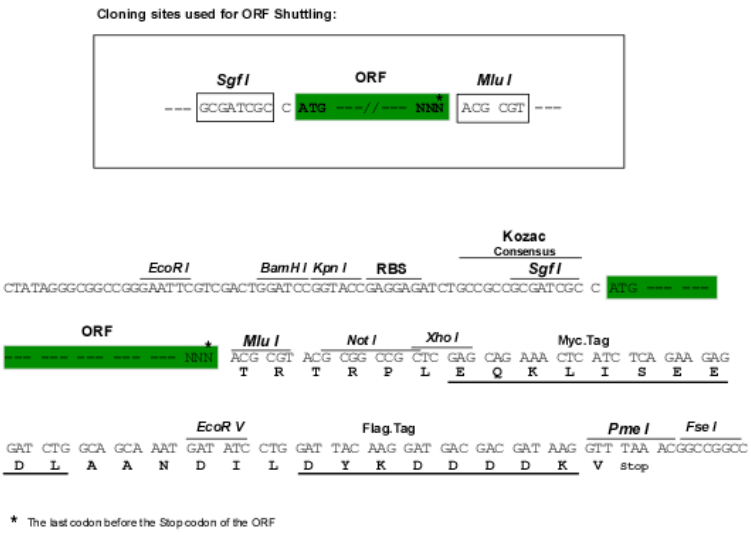
KKRKLHCKQDGEEGTEEDTEEKCTICLSILEEGEDVRRLPCMHLFHQVCVDQWLITNKKCPICRVDIEAQ
LPSES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6156_b05.zip

Restriction Sites: SgfI-MluI

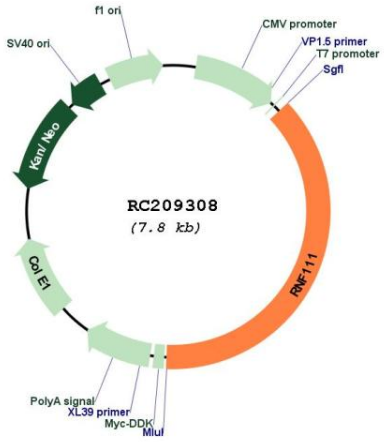
Cloning Scheme:



ACCN:	NM_017610
ORF Size:	2955 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_017610.8
RefSeq Size:	5902 bp
RefSeq ORF:	2961 bp

Locus ID:	54778
UniProt ID:	Q6ZNA4
Cytogenetics:	15q22.1-q22.2
Domains:	RING
Protein Families:	Druggable Genome
MW:	107.8 kDa
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]

Product images:



Circular map for RC209308