

Product datasheet for **SC332970**

RNF111 (NM_001270529) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNF111 (NM_001270529) Human Untagged Clone
Tag:	Tag Free
Symbol:	RNF111
Synonyms:	ARK; hRNF111
Vector:	pCMV6-Entry (PS100001)



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Fully Sequenced ORF: >SC332970 representing NM_001270529.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGTCTCAATGGACTCCTGAATATAACGAGCTCTACACCTTAAAAGTGGATATGAAGAGTGAGATTCTT
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Restriction Sites: SgfI-MluI
ACCN: NM_001270529
Insert Size: 2958 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_001270529.1</u>
RefSeq Size:	5899 bp
RefSeq ORF:	2958 bp
Locus ID:	54778
UniProt ID:	<u>Q6ZNA4</u>
Cytogenetics:	15q22.1-q22.2
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] Transcript Variant: This variant (3) lacks an in-frame segment in the 3' coding region, compared to variant 1, which results in a shorter protein (isoform 3), compared to isoform 1.