

Product datasheet for **RC200732**

Fibrillarin (FBL) (NM_001436) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fibrillarin (FBL) (NM_001436) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fibrillarin
Synonyms:	FIB; FLRN; Nop1; RNU3IP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200732 representing NM_001436 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGCCAGGATTCAGTCCCCGTGGGGTGGCTTTGGCGGCCGAGGGGCTTTGGTGACCGTGGTGGTC
GTGGAGGCCGAGGGGCTTTGGCGGGGCCGAGGTCGAGGCGGAGGCTTTAGAGGTCGTGGACGAGGAGG
AGGTGGAGGCCGCGCGCGGTGGAGGAGGAAAGAGGTGGTGGAGGCTTCCATTCTGGTGGCAACCGG
GGTCGTGGTGGGGAGGAAAAAGAGAAACCAGTCGGGAAGAATGTGATGGTGGAGCCGCATCGGCATG
AGGGTGTCTTCAATTTGTCGAGGAAAGGAAGATGCACTGGTCACCAAGAACCTGGTCCCTGGGAATCAGT
TTATGGAGAGAAGAGAGTCTCGATTTCCGAAGGAGATGACAAAATTGAGTACCGAGCCTGGAACCCCTTC
CGCTCCAAGCTAGCAGCAGCAATCCTGGGTGGTGTGGACCAGATCCACATCAAACCGGGGCTAAGGTTTC
TCTACCTCGGGGCTGCCTCGGGCACCACGGTCTCCCATGTCTCTGACATCGTTGGTCCGGATGGTCTAGT
CTATGCAGTCGAGTTCTCCACCGCTCTGGCCGTGACCTCATTAACTGGCCAAGAAGAGGACCAACATC
ATTCTGTGATCGAGGATGCTCGACACCCACACAAATACCGCATGCTCATCGCAATGGTGGATGTGATCT
TTGCTGATGTGGCCAGCCAGACCAGACCCGATTGTGGCCCTGAATGCCACACCTTCTGCATGATGG
AGGACACTTTGTGATTTCCATTAAGCCAACTGCATTGACTCCACAGCCTCAGCCGAGGCCGTGTTTGGC
TCCGAAGTGAAAAAGATGCAACAGGAGAACATGAAGCCGAGGAGCAGTTGACCCCTTGAGCCATATGAAA
GAGACCATGCCGTGGTCTGTGGGAGTGTACAGGCCACCCCCAAGTGAAGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC200732 representing NM_001436
Red=Cloning site Green=Tags(s)

MKPGFSPRGGGF GGRGGF GDRGGRGGRGGF GGGRGRGGGFRGRGRGGGGGGGGGGGGGGGGGGFHSGGNR
 GRGRGGKRGNGSGKNVMVEPHRHEGVFICRGKEDALVTKNLVPGESVYGEKRVSISEGDDKIEYRAWNPF
 RSKLAAAILGGVDQIHIKPGAKVLYLGAASGTTVSHVSDIVGPDGLVYAVEFSHRSGRDLINLAKKRTNI
 IPVIEDARHPHKYRMLIAMVDVIFADVAQPDQTRIVALNAHTFLRNGGHFVISIKANCIDSTASAEAVFA
 SEVKKMQQENMKPQEQLTLEPYERDHAVVVGVYRPPPKVKN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2977_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001436

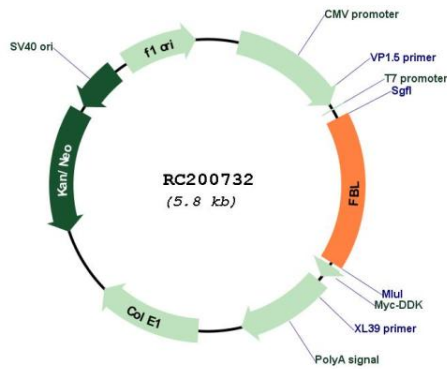
ORF Size: 963 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

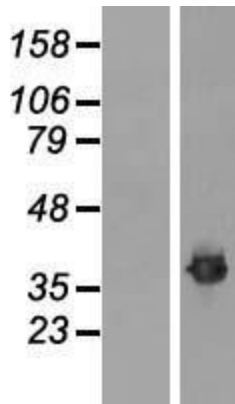
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001436.4
RefSeq Size:	1135 bp
RefSeq ORF:	966 bp
Locus ID:	2091
UniProt ID:	P22087
Cytogenetics:	19q13.2
Domains:	Fibrillarin
Protein Families:	Stem cell - Pluripotency
MW:	33.6 kDa
Gene Summary:	<p>This gene product is a component of a nucleolar small nuclear ribonucleoprotein (snRNP) particle thought to participate in the first step in processing preribosomal RNA. It is associated with the U3, U8, and U13 small nuclear RNAs and is located in the dense fibrillar component (DFC) of the nucleolus. The encoded protein contains an N-terminal repetitive domain that is rich in glycine and arginine residues, like fibrillarins in other species. Its central region resembles an RNA-binding domain and contains an RNP consensus sequence. Antisera from approximately 8% of humans with the autoimmune disease scleroderma recognize fibrillarin. [provided by RefSeq, Jul 2008]</p>

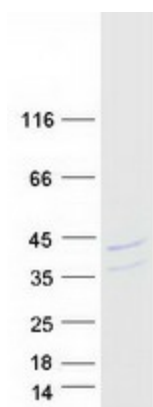
Product images:



Circular map for RC200732



Western blot validation of overexpression lysate (Cat# [LY419941]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200732 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FBL protein (Cat# [TP300732]). The protein was produced from HEK293T cells transfected with FBL cDNA clone (Cat# RC200732) using MegaTran 2.0 (Cat# [TT210002]).