

Product datasheet for **RC219016**

ZFR (NM_016107) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZFR (NM_016107) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZFR
Synonyms:	SPG71; ZFR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219016 representing NM_016107 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATTCCCATATGCCCTGTAGTTTCTTTCACCTATGTGCCAGCCGGCTGGGGGAAGATGCCAAATGG
CGACCGGCAACTACTTTGGATTACCCACAGCGGGCGGCGGCGGCGGCTGCGGCCAATATAGCCA
GCAGCCAGCTTCGGGTGTAGCCTATTCTCATCAACTACAGTTGTAGCTACACTGTCCATCAGGCTCCA
GTAGCTGCTCACACAGTTACTGCTGCCTATGCACCAGCAGCCGCCACAGTTGCAGTTGCCAGGCCTGCTC
CAGTAGCTGTTGCAGCTGCTGCAACAGCTGCTGCTTATGGAGGCTACCCCACTGCACACACAGCAACTGA
CTATGGTTATACTCAGAGGCAACAAGAAGCACCACCACCACCACCCCACTACTACACAAAACCTACCAG
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CAACAGCAACTGCTGCTGCTGTAGCTGCCGCTGCCCAACCTCAGCCTTCTGTTGCTGAAACTTACTATCA
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CCTCTCCTTCAAGCATTGCAGCAACAATTGTACTGTGAATACGTCATCAGTTGCAACGCTCTTCAATGAA
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AATATGGCTGCCAAGAAACATCTACCCCCAAAATAAATTTTGTGGTGGTAATAAGCTGCAGTCAACAG
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 TT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence:

>RC219016 representing NM_016107
 Red=Cloning site Green=Tags(s)

MIPICPVVSFTYVPSRLGEDAKMATGNYFGFTHSGAAAAAAQYSQQPASGVAYSHPTTVASyTVHQAP
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 TAIKPATPSPATTTFSIYPVSSTVQPVAAAATVVPSYTSATYSTAVTYSGTSYSGYEAAYSAASSYY
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 KEGDDKKEGGKDRALKGVLRVGLAKGLLLRGDRNVNLLCSEKPSKTLRSRIAENLPKQLAVISPEKY
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 WFGARANGLQSCVIIIRILRDLQRVPTWSDFFPSWAMELLVEKAISSASSPQSPGDALRRVFECISSGII
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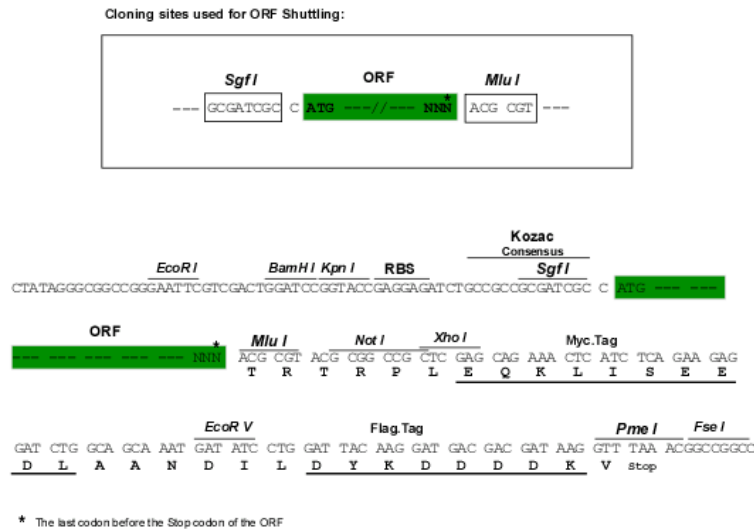
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg3693_b01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016107

ORF Size: 3222 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.

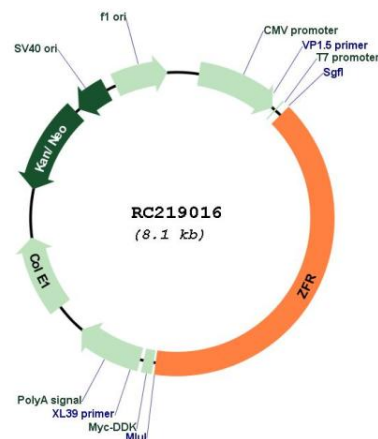
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	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:	<u>NM_016107.5</u>
RefSeq Size:	4746 bp
RefSeq ORF:	3225 bp
Locus ID:	51663
UniProt ID:	<u>Q96KR1</u>
Cytogenetics:	5p13.3
Domains:	DZF
MW:	116.8 kDa
Gene Summary:	This gene encodes an RNA-binding protein characterized by its DZF (domain associated with zinc fingers) domain. The encoded protein may play a role in the nucleocytoplasmic shuttling of another RNA-binding protein, Staufen homolog 2, in neurons. Expression of this gene is regulated through alternative polyadenylation that mediates differential microRNA targeting. Elevated expression of this gene has been observed in human patients with pancreatic cancer and knockdown of this gene may result in reduced viability and invasion of pancreatic cancer cells. [provided by RefSeq, Sep 2016]

Product images:



Circular map for RC219016