

Product datasheet for **RR205030**

Fis1 (NM_001105919) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fis1 (NM_001105919) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Fis1
Synonyms: Ttc11
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR205030 representing NM_001105919
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCAGAGATGAAGCTGCAAGGAATTTGAAAGGAAATTCAGTCTGAGCAGGCAGCTGGCTCTGTGT
 CCAAGAGCACGCAGTTTGAATACGCCTGGTGCCTGGTTCAAGCAAATACAATGACGACATCCGTAGAGG
 CATCGTGTCTGGAGGAGCTGTTGCCAAAGGTAGCAAAGAGGAGCAGCGGGATTATGTCTTCTACCTG
 GCCGTGGGCAACTACCGCTCAAGGAATATGAAAAGGCTCTGAAGTATGTGCGGGGACTGTTACAGACTG
 AGCCCCAGAACAACCAAGGCAAGGAGCTGGAACGCCTGATTGACAAGGCCATGAAGAAAGATGGACTGGT
 AGGCATGGCCATTGTTGGTGGCATGGCCCTGGGTGGCGGGCCCTGGCTGGACTCATTGGACTGGCTGTG
 TCCAAGTCCAAATCC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR205030 representing NM_001105919
 Red=Cloning site Green=Tags(s)

MPRDEAARNFERKFQSEQAAGSVSKSTQFEYAWCLVRSKYNDIIRRGIVLLELLPKGSKEEQRDYV FYL
 AVGN YRLKEYEKALKYVRGLLQTEPQNNQAKELERLIDKAMKKDGLVGM AIVGGMALGVAGLAGLIGLAV
 SKSKS

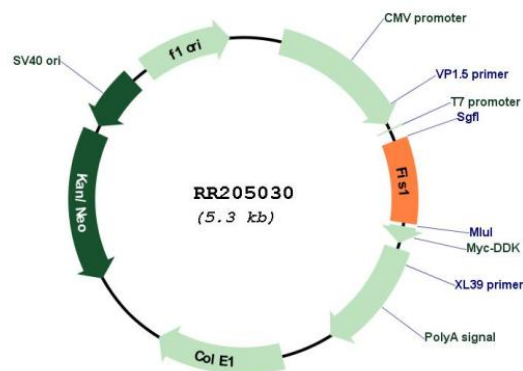
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001105919

ORF Size: 435 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:	<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.
RefSeq:	<u>NM_001105919.1</u> , <u>NP_001099389.1</u>
RefSeq Size:	948 bp
RefSeq ORF:	438 bp
Locus ID:	288584
UniProt ID:	<u>P84817</u>
Cytogenetics:	12q12
MW:	16.3 kDa
Gene Summary:	Involved in the fragmentation of the mitochondrial network and its perinuclear clustering. Plays a minor role in the recruitment and association of the fission mediator dynamin-related protein 1 (DNM1L) to the mitochondrial surface and mitochondrial fission. Can induce cytochrome c release from the mitochondrion to the cytosol, ultimately leading to apoptosis. Also mediates peroxisomal fission (By similarity).[UniProtKB/Swiss-Prot Function]