

Product datasheet for **MG224358**

Fis1 (NM_001163243) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fis1 (NM_001163243) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Fis1
Synonyms: 2010003O14Rik; Ttc11
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG224358 representing NM_001163243
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAGAGACGAAGCTGCAAGGAATTTGAAAGGAAATTTTCAGTCTGAGCAGGCAGCTGGTTCTGTGT
CCAAGAGCACGCAATTTGAATATGCCTGGTGCCTGGTTCGAAGCAAATACAATGAGGACATCCGCAGAGG
CATCGTGTCTGGAGGAGCTGTTGCCAAAGGGAGCAAAGGAAACAGCGGGACTATGTCTTCTACCTG
GCCGTGGGCAACTACCGCTCAAGGAATATGAAAAGGCTCTAAAGTATGTGCGAGGGCTGTTGCAGACTG
AGCCCCAGAACAACAGGCCAAGGAGCTGGAACGCCTGATTGATAAGGCCATGAAGAAAGATGGACTGGT
AGGCATGGCCATCGTTGGTGGCATGGCCCTGGCGTGGCAGGCCCTGGCTGGACTCATTGGACTGGCTGTC
TCCAAGTCCAAATCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG224358 representing NM_001163243
Red=Cloning site Green=Tags(s)

MPRDEAARNFERKFQSEQAAGSVSKSTQFEYAWCLVRSKYNEDIRRGIVLLEELLPKGSKEEQRDYVFYL
AVGNRYRLKEYEKALKYVRGLLQTEPQNNQAKELERLIDKAMKKGDLVGMALVGGMALGVAGLAGLIGLAV
SKSKS

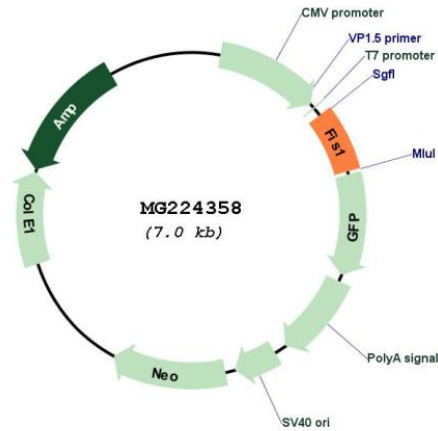
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001163243

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_001163243.1, NP_001156715.1</u>
RefSeq Size:	966 bp
RefSeq ORF:	438 bp
Locus ID:	66437
UniProt ID:	<u>Q9CQ92</u>
Cytogenetics:	5 G2
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. May be not essential for the assembly of functional fission complexes and the subsequent membrane scission event. Can induce cytochrome c release from the mitochondrion to the cytosol, ultimately leading to apoptosis. Also mediates peroxisomal fission.[UniProtKB/Swiss-Prot Function]