

Product datasheet for **RG236953**

MFF (NM_001277068) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MFF (NM_001277068) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MFF
Synonyms:	C2orf33; EMPF2; GL004
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG236953 representing NM_001277068. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTGAAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAGAAATTAGTCGAATTCAGTACGAAATGGAATATACTGAAGGCATTAGTCAGCGAATGAGGGTC
CCAGAAAAGTTAAAAGTAGCACCGCCAAACGCTGACCTGGAACAAGGATTCCAAGAAGGAGTTCCAAAT
GCTAGTGTGATAATGCAAGTTCGGGAGAGGATTGTTGTAGCAGGAAATAATGAAGATGTTTCATTTTCA
AGACCAGCAGATCTTGACCTTATTCAGTCAACTCCCTTTAAACCCCTGGCACTGAAAACACCACCTCGT
GTACTTACGCTGAGTGAAAGACCACTAGATTTTCTGGATTTAGAAAGACCTCTACAACCCCTCAAAT
GAAGAAATCCGAGCAGTTGGCAGACTAAAAGAGAGCGGTCTATGAGTAAAATGCTGTTGCGCAAAT
GGACAGCTGGTCAGAAATGATTCTCTGGCATACCAAGCAGATCTTGATGTGCTGGATGAAAATCGCAGA
CCTGTGTTGCGTGGTGGTCTGTGCGCCCACTTCTAATCCTCATCATGACAACGTCAGGTATGGCATT
TCAAATATAGATACAACCATTGAAGGAACGTCAGATGACCTGACTGTTGTAGATGCAGCTTCACTAAGA
CGACAGATAATCAAATAAATAGACGTCTACAACCTCTGGAAGAGGAGAACAAAGAACGTGCTAAAAGA
GAAATGGTCATGTATTCAATTAAGTGTAGCTTTCTGGCTGCTTAATAGCTGGCTCTGGTTTCGCCGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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Protein Sequence: >Peptide sequence encoded by RG236953
 Blue=ORF Red=Cloning site Green=Tag(s)

MAEISRIQYEMEYTEGISQRMVPEKLVAPPNADLEQGFQEGVPNASVIMQVPERIVVAGNNEDVSFS
 RPADLDLIQSTPFKPLALKTPPRVLTLSERPLDFLDLERPPTTPQNEEIRAVGRLKRERSMSENAVRQN
 GQLVRNDSLAYQQILDVLDENRRPVLRGSSAAATSNPHHDNVRYGISNIDTTIEGTSDDLTVVDAASLR
 RQI IKLNRRLLQLEEEENKERAKREMMYSITVAFWLLNSWLWFRR
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001277068

ORF Size: 756 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).

RefSeq: [NM_001277068.1](#), [NP_001263997.1](#)

RefSeq Size: 1630 bp

RefSeq ORF: 759 bp

Locus ID: 56947

UniProt ID: [Q9GZY8](#)

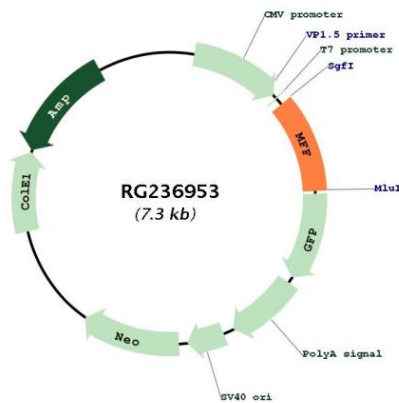
Cytogenetics: 2q36.3

Protein Families: Transmembrane

MW: 29.3 kDa

Gene Summary: This is a nuclear gene encoding a protein that functions in mitochondrial and peroxisomal fission. The encoded protein recruits dynamin-1-like protein (DNM1L) to mitochondria. There are multiple pseudogenes for this gene on chromosomes 1, 5, and X. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2013]

Product images:



Circular map for RG236953