

## Product datasheet for **RG232255**

### MFF (NM\_001277064) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MFF (NM\_001277064) 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:** >RG232255 representing NM\_001277064  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGAAATTAGTCGAATTCAGTACGAAATGGAATATACTGAAGGCATTAGTCAGCGAATGAGGGTCC  
CAGAAAAGTTAAAAGTAGCACCGCCAAACGCTGACCTGGAACAAGGATTCCAAGAAGGAGTTCCAAATGC  
TAGTGTGATAATGCAAGTTCCGGAGAGGATTGTTGTAGCAGGAAATAATGAAGATGTTTCATTTCAAGA  
CCAGCAGATCTTGACCTTATTCAGTCAACTCCCTTTAAACCCCTGGCACTGAAAACACCACCTCGTGTAC  
TTACGCTGAGTGAAGACCACTAGATTTTCTGGATTTAGAAAGACCTCCTACAACCCCTCAAATGAAGA  
AATCCGAGCAGTTGGCAGACTAAAAGAGAGCGGTCTATGAGTGAATAATGCTGTTTCGCAAAATGGACAG  
CTGGTCAGAAATGATTCTCTACCTGTGTTGCGTGGTGGTCTGCTGCCGCCACTTCTAATCCTCATCATG  
ACAACGTCAGGTATGGCATTTCAAATATAGATACAACCATTGAAGGAACGTGAGATGACCTGACTGTTGT  
AGATGCAGCTTCACTAAGACGACAGATAATCAAATAAAGACGCTTCAACTTCTGGAAGAGGAGAAC  
AAAGAACGTGCTAAAAGAGAAATGGTCATGTATTCAATTACTGTAGCTTTCTGGCTGCTAATAGCTGGC  
TCTGGTTTCGCCGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG232255 representing NM\_001277064  
Red=Cloning site Green=Tags(s)

MAEISRIQYEMEYTEGISQRMRVPEKLVAPPNADLEQGFQEGVPNASVIMQVPERIVVAGNNEDVSFSR  
 PADLDLIQSTPFKPLALKTPPRVLTLSERPLDFLDERPPTTPQNEEIRAVGRLKRERSMSENAVRQNGQ  
 LVRNDSLPLVLRGGSAAATSNPHHDNVRYGISNIDTTIEGTSDDLTVVDAASLRRQI IKLNRRLLQLLEEN  
 KERAKREMMYSITVAFWLLNSLWFRR

TRTRPLE - GFP Tag - V

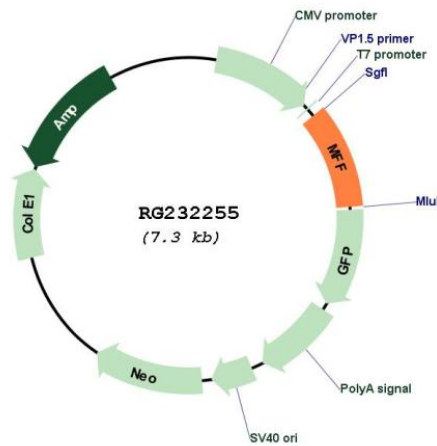
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_001277064

**ORF Size:** 714 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001277064.2</a>
<b>RefSeq Size:</b>	1865 bp
<b>RefSeq ORF:</b>	717 bp
<b>Locus ID:</b>	56947
<b>UniProt ID:</b>	<a href="#">Q9GZY8</a>
<b>Cytogenetics:</b>	2q36.3
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	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]