

## Product datasheet for **RG232175**

### MFF (NM\_001277065) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MFF (NM_001277065) 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:	>RG232175 representing NM_001277065 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGAAATTAGTCGAATTCAGTACGAAATGGAATATACTGAAGGCATTAGTCAGCGAATGAGGGTCC  
CAGAAAAGTTAAAAGTAGCACCGCCAAACGCTGACCTGGAACAAGGATTCCAAGAAGGAGTTCCAAATGC  
TAGTGTGATAATGCAAGTTCCGGAGAGGATTGTTGTAGCAGGAAATAATGAAGATGTTTCATTTCAAGA  
CCAGCAGATCTTGACCTTATTCAGTCAACTCCCTTTAAACCCCTGGCACTGAAAACACCACCTCGTGAC  
TTACGCTGAGTAAAAGACCACTAGATTTTCTGGATTTAGAAAAGACCTCCTACAACCCCTCAAATGAAGA  
AATCCGAGCAGTTGGCAGACTAAAAGAGAGCGGTCTATGAGTGAATGCTGTTTCGCAAAAATGGACAG  
CTGGTCAGAAAATGATTCTCTGTATGGCATTTCAAATATAGATACAACCATTGAAGGAACGTCAGATGACC  
TGACTGTTGTAGATGCAGCTTCACTAAGACGACAGATAATCAAATAAATAGACGCTACAACCTTCTGGA  
AGAGGAGAAACAAGAACGTGCTAAAAGAGAAATGGTCATGTATTCAATTACTGTAGCTTTCTGGCTGCTT  
AATAGCTGGCTCTGTTTCGCCGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG232175 representing NM\_001277065  
 Red=Cloning site Green=Tags(s)

MAEISRIQYEMEYTEGISQRMRVPEKLVAPPNADLEQGFQEGVNASVIMQVPERIVVAGNNEDVSFSR  
 PADLDLIQSTPFKPLALKTPRVLTLSERPLDFLDERPPTTPQNEEIRAVGRLKRERSMSENAVRQNGQ  
 LVRNDSLYGISNIDTTIEGTSDDLTVVDAASLRQI I I K L N R R L Q L L E E N K E R A K R E M V M Y S I T V A F W L L  
 NSWLWFRR

TRTRPLE - GFP Tag - V

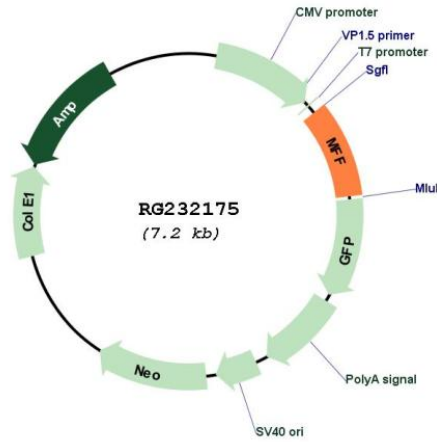
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001277065

**ORF Size:** 654 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_001277065.2</a>
<b>RefSeq Size:</b>	1805 bp
<b>RefSeq ORF:</b>	657 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]