

## Product datasheet for **MG203837**

### Mgarp (NM\_026358) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mgarp (NM_026358) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mgarp
Synonyms:	4930583H14Rik; AI195347; CESP-1; HUMMR; Osap; Qsap
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203837 representing NM_026358 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTATCTCCGCAGGGCTGTGTCCAAGACTCTGGCGCTGCCCGGAGGGCGCCCCGGTCCCAGCGCCG  
TGGGGAAGGACGCATCTTTCGCCGAATGTCATCCAGGAAATCCCTGGAACATCTGGCTCCAATATGAT  
CTATTACCTGGTTGTAGGTGTGACAGTCAGTGTGGTGGATATTACACTTACAAGCTTTAACATCAAAG  
CAAGTGAGACGTACAGAACATGTAGCTGAACCGAAAGAACAACAAGGGCGGAGTTGCAACCACTCCAG  
GTGAAAAGGAAGAGCATGTGGCAGAAGCCGAGCAAGTGTGTTCCAGAGCCTGGAGACTGCTGTAACGGA  
AGCTGAATCGGTAGATGCTGAGGAAGTCCCAGAGGCTGCAGTTGTGCTTCCAGAAGAGTCTCAGGCCTCC  
GCCCCCTCCGAGGTCCCTGCCGAAGTGCCTGGTGGAGGCATCCTTATCGAGCTCAGAGCCTGAGCTGA  
AGATAACCGAGGCTTCCCTGGTGGAGACTACCGAGAGTGTCCCTGAGTCTACTCAGGAGGTGGAGAGTGC  
AGCCCCAGACCAGGATGACGTTTGCAATGAGGGGGCTGATACTAGCCAGGAGGGCGCTGATACCAGCCAG  
GAGGGGGCTGATACCAGCCAGGAGGGCGCTGATACCACCAAGGAGGAGGCTGATAACAGCAAGGAGGCTG  
AAGGTACCACTACTGAGGACCCGCGCTCGATCTCCGAGGAGAGTGCCGAAGTACAAGAAAGCCCTCCCTT  
AGGCTCAGAACCCTGCCAGCCTGAGTCACAAGAAGAAGAAACCCAGGTCACAGAGGAAACAGCATCA  
CCCCAAGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203837 representing NM\_026358  
 Red=Cloning site Green=Tags(s)

MYLRRAVSKTLALPRRAPPGPAPLGKDasLRRMSSRKFPGTSGSNMIYYLVVGVTVSAGGYTYKALTSK  
 QVRRTEHVAEPKEQTKAELQPLPGEKEEHVAEAEQVCSEPGDTAVTEAESVDAEEVPEAAVVLPEESQAS  
 APSEVPAEAAVVEASLSSSEPELKITEASLVETTEVPESTQEVESAAPDQDDVCNEGADTSQEGADTSQ  
 EGADTSQEGADTTKEEADNSKEAEGTTTEDPRSISEESAELLESPPLGSEPPAQPESQEEETQVTEETAS  
 PQG

TRTRPLE - GFP Tag - V

Restriction Sites:

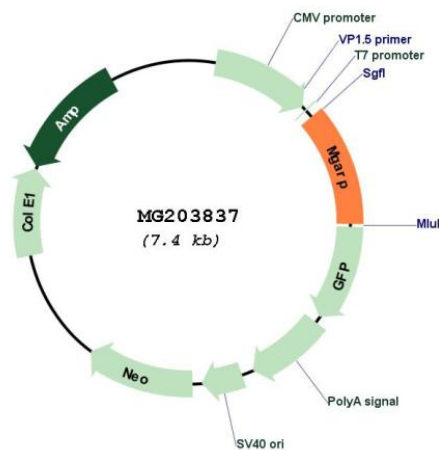
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_026358

ORF Size: 849 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_026358.3</a>
<b>RefSeq Size:</b>	1190 bp
<b>RefSeq ORF:</b>	852 bp
<b>Locus ID:</b>	67749
<b>UniProt ID:</b>	<a href="#">Q8VI64</a>
<b>Cytogenetics:</b>	3 C
<b>Gene Summary:</b>	Plays a role in the trafficking of mitochondria along microtubules. Regulates the kinesin-mediated axonal transport of mitochondria to nerve terminals along microtubules during hypoxia. Participates in the translocation of TRAK2/GRIF1 from the cytoplasm to the mitochondrion. Also plays a role in steroidogenesis through maintenance of mitochondrial abundance and morphology.[UniProtKB/Swiss-Prot Function]