

## Product datasheet for **MG209623**

### Ogfr (NM\_031373) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ogfr (NM_031373) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ogfr
Synonyms:	2010013E17Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209623 representing NM\_031373, **codon optimized**.  
**Due to the complexity of NM\_031373, the ORF clone is codon optimized for mammalian Expression.**  
**The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.**

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGGACGACCCAGAATGCGACAGCACGTGGGAAGACGAATCCGAAGAGGATGGGGAGGATGGACAGGCTG  
 ACGACACTACTGATGAGGATACTGGCGATGACGATGGAGACGCTGAAGAGGCTAGGCCTTACTGTTCCA  
 GTCTCGGATGACCAGATACCGCAATTGGAGGGCGATGCAGGACATGCAAAGATACAGACACAACCTACCT  
 GACCTTACCGACCAGGACTGTAACGGCGACATGTGCAATCTCTCCTTCTACAAGAACGAGATCTGTTTCC  
 AGCCAAATGGGTTCTTGATCGAGGATATTTCTCAGAATTGGAAGGATAATTATGACTTGTGGAGGAAAA  
 TCATTCCTATATCCAGTGGCTCTTCCCCTTGAGGGAACCCGGCGTGAATTGGCATGCAAAACCTCTGACT  
 CTTAAAGAAGTCGAGGCTTTCAAGTCTCTAAAGAGGTCCGAGAGAGACTGGTCCGCGCTTATGAGCTGA  
 TGCTGGGCTTCTATGGAATCCAGTTGGAAGATCGAAACACTGGTGTCTTGTGGGCTCAGAATTTCCA  
 GCCAAGATTCCATAACTGAACTCTCACTCTATAATAACCTGCGGATAACCAGAATTCTCAAGTCCCTC  
 GGAGAGTTGGGGCTGGAACATTACCAGGCGCCCTCGTAAGGTTCTTCTGGAAGAAACGCTTGTGCAGC  
 ACAAGTTGCCCTCAGTGCAGCTGCACTGGATTACTTCTCTTCGCTGTACGATGTAGGCATCAGAG  
 GCGGGAGCTTGTACATTTTCTTGGGAGCACTTCAAGCCACGCGAGAGTTCGTGTGGGGCCCAAGAGAC  
 AAGCTGCGGGCGTTCAGACCCCAAACGATAAGTAGACCCTTATGGGCTGGGGCAGGCAGACAAGGATG  
 AAGGACCCGCGACCTTCTCAGGAGGCTGGAACCTCAGGCGCGACCTGCGGATCCGGTCCGCGACCTGTC  
 TGGAGACAGCGGGACCGCTGAGGATCTGTCCCTGCTCTCAGCAAACCGCAGGATGTTGGAACGCTCGAT  
 GGGGACCAGAGGCATGAGGCTAAAAGCCGCTCTCCAAGGAGTCAAAAAAAGAAAGTTGGAGGGGAACA  
 GACAAGAACAGGTACCAGGCGAGCCGATCCTCAGGGTGTGTAGAGGTCGAAAAATCGCCTTGAATCT  
 CGAGGGCTGTGCCCTGTACCCACTTCCCAGGAGCCTAGGGAAGCCGAACAGCCCTGTCTGGTCTCGA  
 GTGGCCAACGAAGTCAGGAAGCGGAGGAAGGTGGAAGAGGGTGCAGAGGGGGATGGTGTGGCCTCCAATA  
 CCCAGGTGCAGGCGAGCCCTGTCTCCACCCCAAGTGTGAGTGCAGAGAGTCAAGGATGGTAAATGG  
 GCCCGAAGACCCTAAATCACAGGTGGGGCTGAGGACCCCAAGTCAAGTGGGGCTGAGGATCCTAAA  
 AGCCAAGTCGGGCTGAAGACCCCAAGTCCCAGGTTCGACCTGAGGACCCCAAGGGTCAGGTAGAACCAG  
 AAGACCCCAAGGGCCAGGTGGGACCAGAAGACCCTAAGGGTCAAGTGGGACCTGAGGACCCCAAGGGACA  
 GGTGGGCCCCGAGGACCTAAGTACAGGTAGGGCCTGAAGATCCAAAAGCCAAGTGAACCCAGAGGAT  
 CCAAAGAGCCAGGTGCAACCTGAGGACCCAAAGAGTCAAGTCAACCCGAGGACCCCAAGTCCCAAGTGG  
 GCCAGAGGACCCCAAGGACCTGAGGACCCGAGCAGGCGGCTCTAAGAGCCTGGGCGAGGACCCAGA  
 CAGTGATACAACGGGTACATCCATGAGCGAATCCGAAGAGCTGGCTCGCATTGAGGCATCTGTGAAACCA  
 CAAAACCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG209623 representing NM\_031373  
 Red=Cloning site Green=Tags(s)

MDDPECDSTWEDESEEDGEDGQADDTTDEDTGDDDGDAEEARPSLFQSRMTRYRNWRAMQDMQRYRHNYP  
 DLTDQDCNGDMCNLSFYKNEICFPNGFLIEDILQNWKDNLDLEENHSYIQWL FPLREPGVNWHAKPLT  
 LKEVEAFKSSKEVRERLVRAYELMLGFYGIQLEDRNTGAVCRAQNFQPRFHNLNSHSHNNLRITRILKSL  
 GELGLEHYQAPLVRFFLEETLVQHKLPSVRQSALDYFLFAVRCRHQRRELVHF AWEHFKPRREFVWGPRD  
 KLRRFRPQTI SRPLMGLGQADKDEGPGDPSQEAGTQGRTCGSGRDLSGDSGTAEDLSLLSAKPQDVGTL D  
 GDQRHEAKSPSPKESKKRKL EGNRQEQVPGEPDQGVSEVEKIALNLEGCALSPTSQEPREAEQPCLVAR  
 VANEVRKRRKVEEGAEGDGVASNTQVQASALSPTPSECPESQKDGNGPEDPKSQVGPEDPKSQVGPEDPK  
 SQVGPEDPKSQVGPEDPKQVVEPEDPKQVGPEDPKQVGPEDPKQVGPEDPKSQVGPEDPKSQVVEPED  
 PKSQVVEPEDPKSQVGPEDPKSQVGPEDPQSQVGPPEQAASKSLGEDPDSDTTGTSMSESEELARIEASVEP  
 PKP

TRTRPLE - GFP Tag - V

Restriction Sites:

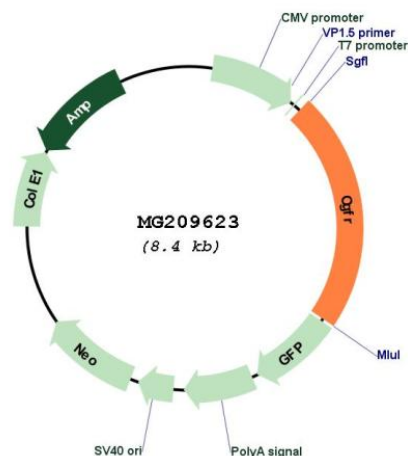
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



## Plasmid Map:



ACCN: NM\_031373

ORF Size: 1899 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:**

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: [NM\\_031373.3](#), [NP\\_113550.3](#)

RefSeq Size: 2306 bp

RefSeq ORF: 1902 bp

Locus ID: 72075

UniProt ID: [Q99PG2](#)

Cytogenetics: 2 H4

Gene Summary: Receptor for opioid growth factor (OGF), also known as Met-enkephalin. Seems to be involved in growth regulation (By similarity).[UniProtKB/Swiss-Prot Function]