

## Product datasheet for **MG214794**

### **Gm14548 (NM\_001166672) Mouse Tagged ORF Clone**

#### **Product data:**

<b>Product Type:</b>	Expression Plasmids
<b>Tag:</b>	TurboGFP
<b>Symbol:</b>	Gm14548
<b>Synonyms:</b>	OTTMUSG00000017169
<b>Mammalian Cell Selection:</b>	Neomycin
<b>Vector:</b>	pCMV6-AC-GFP (PS100010)
<b>E. coli Selection:</b>	Ampicillin (100 ug/mL)



**ORF Nucleotide Sequence:** >MG214794 representing NM\_001166672  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTACTATAGGGCGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGTCCTGCACCTTACAGCCCGGCTCGCCTGGACTGACTCTGAGCCTCTGGATCCCAGTGCTGACAG  
 GGTCCCTCCCTAAGCCTATCCTCAGAGTACAGCCACACTCTGTGGTCTCCAGAAGGACTAAGGTGACCTT  
 CTTGTGTGAGGAGACAATTGGAGCCAATGAGTACCACCTCTATAAAGATGGAAAGCTATATAAAACCGTA  
 ACAAAGAACAACAGAAGCCAGCAACAAGGCTGAATTCCTACTCTCAAATGTAGACCTGAGTAATGCAG  
 GTCAATATCGATGTTCTTACAACCCAGGATGAATCATCAGGCTACAGTGACCCCTGGAGCTGGTGGT  
 GACAGGAGACTACTGGACACCAGCCTTTTCAGCCAGGCCAGCCCTGTGGTAACCTTACAGGAGGATGTC  
 ACCCTCCAGTGTGAGTCTGGCACAACAATCACAGTTCATTCTGACTGTAGAAGGACCACAGAAGCTCT  
 CATGGATGCAAGACTACAATATAACAACCTACAAGGAAGTACCACGCCCTGTTCTGTGGGCCCTGT  
 GACCCCAACCAGCGATGGATATTCAGATGTTACAGTTATGACAGGAACAGACCATATGTGTGGTACCT  
 CCAAGTGAATCCGTGGAGCTCCTGGTCTCAGGTAATCTCAAAAAACCAACCATCAAGGCTGAACAGGAT  
 CTGTGATCACCTCCAAAAGAGCAATGACCATCTGGTGTGAGGGAACTGGATGCAGAAGTATATTTTCT  
 GCATAATGAGAAAAGCCAAAAACACAGAGCACACAGCCCTACAGCAGCCTGGGAACAAGGGCAAGTTC  
 TTCATCCCTTCTGTGACACAACAACATGCAGGGCAATATCGCTGTATTGTTACAGCTCAGCTGGTGGT  
 CACAGCCAGTGACACCCTGGAGCTGGTGGTGCAGGAATCTATGAATACTATGAACCCAGGCTGTCAGT  
 ACTGCCAGCCCTGTGGTGCAGCAGGAGGAACATGACACTCCACTGTGCCTCAGACTTTCACTACGAT  
 AAATTCATTCTACCAAGGAAGATAAGAAATTCACCAGCTCACTGGACACAGAGCATATATCTTCTAGTA  
 GACAGTACCGAGCCCTGTTTATTATAGGACCCACAACCCCAACCCACAGGGACATTCAGATGTTATGG  
 TTAACAAGAATGCCCCACAGCTGTGGTCAAGTACCTAGTGTCTTCAACAAATACTCATCTCAGGGCTG  
 TCCAAGAAGCCCTCTCTGCTGACTACCAAGGCATATCCTGGACCCTGGAAATGACCCTCACCTGCAGT  
 GTTACTCTGACATCAACTATGACAGATTTGCTCTGCACAAGGTGGGGGAGCTGACATCATGCAGCACTC  
 TAGCCAGCAGACTGACTGGCTTCTGTGGCCAACCTCACACTGGCTATGTGAGTAGCTCCACTGGA  
 GGCCAAATACAGATGCTATGGTGCACACAACCTCCTCTGAGTGGTCCAGTCCAGTCCAGCCCTGGACA  
 TCCTGATCACAGGACAGCTCCCTCTCACTCCTCCCTCTCAGTGCAGCCTAACCCACAGTGCACTCAGG  
 AGAGACCGTGAGCCTGCTGTGTTGGTCAATGGACTCTGTGGATACTTTCATTCTGTCCAAGGAGGGATCA  
 GCCCAGCAACCCCTGCGACTAAAATCAAAGTCCCATGATCAGCAGTCCCAGGCAGAATTCTCCATGAGTG  
 CTGTGACCTCCATCTCTCAGGCACCTACAGGTGCTATGGAGCTCAAGACTCATCTTTCTACCTCTGTG  
 ATCTGCCAGTGGCCCTGTGGAGCTCACAGTCTCAGGAACATTGAATCCTCCACCTGGCCTCCAAAAGG  
 CCCATCCCACCAATTCACAGAGAACCAGGATCACACAATGGAGAATCTCATCAGGATGGGGATGGCAG  
 TCCTGGTCTCATGCTCTTCGATCTAGCCACTGAGGCTTGCGGAAGCCATAGACAGACCCACCTGT  
 AGCTGGGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG214794 representing NM\_001166672  
 Red=Cloning site Green=Tags(s)

MSCFTARLCLGLTSLWIPVLTGSLPKPILRVQPHSVVSRRTKVTFLEETIGANEYHLYKDGKLYKTV  
 TKNKQKPAKAEFSLSNVDLSNAGQYRCSYNTQDESSGYSDFLELVVTGDYWTPSLSAQASPVVTSGGYV  
 TLQCESWHNNHRFILTVEGPQKLSWMQDSQYNNSTRKYHALFSVGPVTPNQRFRCYSYDRNRPVWSP  
 PSESVELLVSGNLQKPTIKAEPGSVITSKRAMTIWCQGNLDAEVYFLHNEKSQKTQSTQTLQPPGNKGF  
 FIPSVTQQHAGQYRCYCYSSAGWSQSDTLELVVTGIYEYEPRLSVLPSVVTAGGNMTHCASDFHYD  
 KFILTKEKKFTSSLDTEHISSSRQYRALFIIGPTTPTHTGTFRCYGYKNAPQLWSVPSALQQLISGL  
 SKKPSLLTHQGHILDPGMLTLQCYSDINYDRFALHKVGGADIMQHSQQTDTGFSVANFTLGYVSSSTG  
 GQYRCYGAHNLSSSEWSASSEPLDILITGQLPLTPSLSVQPNHTVHSGETVSLLCWSMDSVDFTILSKEGS  
 AQQPLRLKSKSHDQSQAEFMSAVTSHLSGTYRCYGAQDSSFYLLSSASAPVELTVSGTIESSTWPPKR  
 PIPPIPTENQDHTMENLIRMGMAVLVLIVLSILATEAWRSHRQTHPVAGN

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001166672

**ORF Size:** 2040 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.

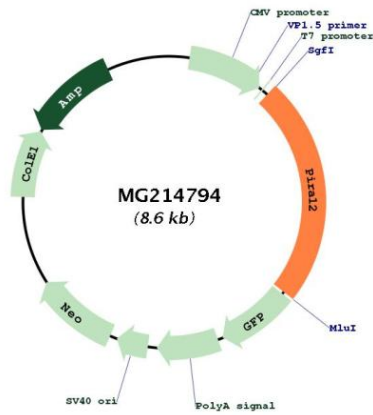
**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_001166672.2](#)

**RefSeq Size:** 2130 bp

RefSeq ORF: 2043 bp  
 Locus ID: 100038909  
 Cytogenetics: 7 A1

**Product images:**



Circular map for MG214794