

## Product datasheet for **MG214801**

### D630003M2IRik (NM\_177657) Mouse Tagged ORF Clone

#### Product data:

<b>Product Type:</b>	Expression Plasmids
<b>Tag:</b>	TurboGFP
<b>Symbol:</b>	D630003M2IRik
<b>Synonyms:</b>	RP23-407H16.1
<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:** >MG214801 representing NM\_177657  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTACTATAGGGCGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGACCCCTCTGCCCCTTGACATGGCCATCCAGCATGCCCTGGCAGGACTCTACCCGCTTTTGAAGCCA  
CTGCTCCCACTGTCTGGGCAAGTGTCCGGCTCCTGGACTCCGACTTCAGGGGAGATGGACTGAGCTT  
CCTCTTGGATTTTCTCATCCCTGCCAAGCGTCTGTGTGAGCAAGTGCAGGAAAGCGGCTTGTGCCCTCTAT  
ACCCACTGCCTCTCTCGCATGAGGGCTGGCCGTTGTGTCTGCGGGATGAAGTGTGGTACACCTGGC  
CACTCAATCCACTCCTGTACGTACGGGTGATTTCTACCTTCAAGTAGAGTCTGGGAGGAGCAGTCTGT  
CCACATGACTCAAGTGTCTCTTTCAGACCTCCGTGAGGTGGACAAGAAGCCAATTCCTGAGTCTCC  
TACTCTCTATTTTACCCCAAGATGGTTGGAGGCCATCAACAATGACTTTGAGGGACGTCCCTTACACA  
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CTGAGCAGACCCAGGACCATACCAGGCTGGTACTTGGGCGCAAGGGATCTGTGGCCAGATCTGGG  
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TCAGCTCGCCTTTAGGACAGACAGTGAAGCCAGCCAGGCTGGAGGGGACTATGTGGCTCTCTGGGC  
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CACAGGAGACAAGACCCAGAATAAGGGGACCTCTGCTTGGAAAGACCTTCTCTCTCGGGGCTGC  
TGGGGCACCTCCCTTGGGAAGATGGCATGTGAAAGGCCAGCAGGCTCAGGGGAGAAGCCCTGTAGCGGA  
GGCTCAAGGAGAAAGGCCAGGCATAAAGCATCTGGCCACACTGCAGTGCACAGCCACAGCAGCCCAT  
CTAGTGTCCCGGAGAAGCTGCCGACTGTACCTCTGGCCTGGTGAAGACTGAGGAAGAACCAGCAGC  
CTCTGAGATGCAAAAGCCTGTGGGAATGCCAGAAGCCATGGTTTCGGCTCAGGCCTGGGCAAGACAAGCA  
TTCTCTCCCTCTGTCTTTCAGCTGGCCCTGGATCCCCAGCGGCTGAGACAAAGACAGAGGAGACCAC  
TAGGACATGGGAGAGCTTCCAAGCCTGAGGACTGCCTCAATAAGAAGCCTCTTCCATGGTCCCCCGC  
TCTGGGCTCCAGTCTCTCTTGAAGAAGACAGAGGGTACCCCATGTGACCCCGAGAAGGCCCTACTC  
CAGCATGCCAGGCTCGGAAGGCCCTGTGCCCTCTACTCTCTGCAGCCTTGTGAAGCCAAGGCCCCAG



GCAAAGATGGAACAACTCTCCCACAACATCTGGCTCAGGCCACTGTCTGGGAGCCGCTGGCTCCG  
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 GAGACCCTGGGAGTCAAGCTTCTCCAGTCCGGGATAGCCTGCCTGCCAGGTGGTAGGGACAAGGTGGGA  
 GACCGTCTCTGGTGTCAACCGCAGAGGATGCCTGGGAGGCACCATGGTGTACTACCTCAGAGVTCGC  
 GGAGTTGCTGCTACTTATGCAGTGTCCCTAGGCTGGAAGATAAAGCCAAGGGGCTCTGGTGGTATT  
 GATGCCAGGAAAGGACCAGAGGCTGGTCTGGTCTGAGCCCTGCAGGGCATCCAGGCTCTGGCTCCGG  
 CCTCCGTGAGTAAAGTCTCTCTCGGAGAGAAGGCTCCATCCCCAGCTATCTGTGCTACCTGCCCA  
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 TGACTTGGTCACTGCGTCCAATCAACTCTCCGAAGGCTGGAGCTCCGCGTCCGCTGGGCCACCTGGAG  
 ACTGCCATCCACCAGGTGAGTACTGGATGGCGGAGAAAGCAGCCAGAGTCTGCAGGCTCTGCTCCTG  
 TGCATGTATGTGCAGAGACAGTAGAGAAAGTCCACGCAGAGTTTGAAGATTCTTCTCAGGTTGCGGC  
 CCAAGTACCGCCAGGGCCTTGACCTGTCCAAGCAGGCGGCCAGCTGGGAGCTGCAGAGGAAGGGCAGGT  
 GAGATGGGGCTCCAGACCTGGCGGCTTCCGCTCCACCCAGCAGGCTTCCAAGCCAGGCTGACACACT  
 TCTACATGGCCGCTGAGAGGCAGGCACTGACCTGGAGACCTGCTCCATCTCCACCGTTTCAGAAGGAA  
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 GAGTTCCAGCTACCAAGTGGCACTCATAGACCGAAGCAGGCCAGTGGCTAAGGGTCAGGGTCTGCCTA  
 GAGAAGTGGTTCCAAATGGGACAGGTCTCTACAGGACTCTCTGGCTGTGGATCATGTGTTCAAATCCCA  
 GCGGACCCCTCAAGGGGAGCAGAGCAGAAACATGTGGCAGGCTGCTATCCCCAGAACCTGGCCAGTCT  
 GGGGACACTGAGGAAGTCAAGGGCACCCCAAGCTCCCGATCCCACCTGGAGCGGCTCCTTGCTCCTCC  
 TCTTCTCCTGGCCCCACCTTCCCAAGCAGAGCAAGGCCCTCCCGTCCAACCTGGGGGAAGCTTTTCCCTCAGA  
 AGGGACAGGATCACAGACATCCCTGGAGGACTCACCCACACAAGTCTCTGCGTCCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG214801 representing NM\_177657  
 Red=Cloning site Green=Tags(s)

MDPSALDMAIQHALAGLYPPFEATPTVLGQVFRLLDSDFRGDGLSFLLDLFLIPAKRLECEQVREAAALY  
 THCLFLHEGWPLCLRDEVVVHLAPLNPLLLRQGDYFLQVESWEEQSVHMTLKLSSDLREVDKPKIPES  
 YSLIFTPWELEAINNDFEGRPLHNCLVASENGITPVPTKITSPEFVDDRPIIVKVPSSDGDSCPLEDLH  
 LSRPQEPYQAGDLGGKGSVAQIWDKKGKLSGDKYPGLIKVEPARSQALAFRTDSEASQSLEGDYVALLG  
 FPQEYRGASPDSEVVTLSDVIQKSQETRPRTKAPLLGKTLPLSGPAGAPPLGRWACERPAGSGEKPCSG  
 GSRRKARHKASGHTAVRQPQPHTSVPEKLPDCTSGLVEDTEEEPAASEMQKPVGMPEAMVRLRPGRQA  
 FSPLLSSAGPGSPAETKTEETTLGHGRASKPEDCLNKNASFHGSPAPGLQFSFLKEQVRPHVTPEKALL  
 QHARPRKALCPLYSLQPCEAKAPGKDGTTLPPTSGSGPLSGEPPGFRRDSAGPPGGGLRLEECSTRKPRI  
 ETLGVKLLQSGIACLPGGRDKVGRPLLLVSTAEDAWEAPWCTTSEVAELLSYLCVPRLEDKAGLLVVI  
 DARKGTQRPGLVSALQGIQALAPASVSKVLLLGEKASIPQLSVLPAQVEVLTSLKALRNHVDPSSLPEAL  
 EGPFPYHHSEWVQFFQKLDPLTDLRQASSLLQASIQEFKGEPPGGVQEATRCLKSKKELMETVLRDPG  
 LLALQREGGTTLASLQQEASGLNANPDVRSHTLTAALYNLVDGQLHDLVTASNQLLRRLELRVRLGHLE  
 TAIHQVSDWMAGEGSQSLQALAPVHVCAETVEKVHAEFDFLQVAAQYRQGLDL SKQAAQLGAAEEGAG  
 EMGLPDLAFASTQAFQARLTHFYMAAERQRTDLETLHLHRFRKMSRFHMDQNLLTQLSLGKAVKA  
 SPGDQLHLRLHCYLKRLASEFQTEKLLAMKLQVASL SRPGLGQEVWEEAQRHQEIQSLLRKALAYCPCP  
 EVPATQVALIDRSRPVAKGQGLPREVGSKWDRSLQDSLAVDHVFKSQRTPOGEQSRNMWAGLLSPEPGQS  
 GDTEEVRGTPKLPDPTLERLLASLFSWPHLPKQSKASRPTGGFSSEGTGSQTSLEDSPTSPASL

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_177657

**ORF Size:** 3561 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:**

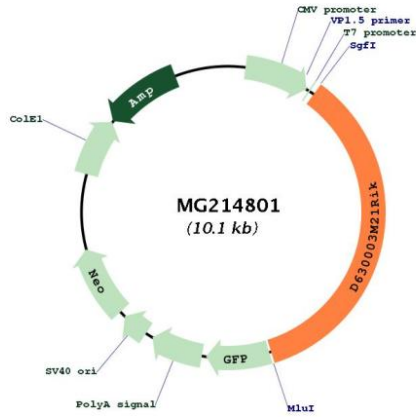
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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\\_177657.4](#), [NP\\_808325.2](#)

RefSeq Size: 3941 bp  
 RefSeq ORF: 3564 bp  
 Locus ID: 228846  
 UniProt ID: [Q8BWG4](#)  
 Cytogenetics: 2 H1

**Product images:**



Circular map for MG214801