

## Product datasheet for **MG203012**

### MacroD1 (NM\_134147) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MacroD1 (NM_134147) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MacroD1
Synonyms:	AI604841; AW743046; D930010J01Rik; Lrp16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203012 representing NM_134147 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCGCGAAGGTGGACCTGAGCACCTCCACCGACTGGAAGGAGGCCAAATCCTTTCTGAAGGGCCTGA  
GTGACAAGCAGAGAGAGGAACATTACTTCTGCAAGGATTCATTAAGCTGAAGAAGATCCCCACGTGGAA  
GGAGACAGCAAAGGGCTGGCTGTGAAGGTGGAGGACCCCAAGTATAAGAAGGACAAGCAACTGAATGAG  
AAAATCTCCCTGTACCGTGGGGACATACCAAGCTGGAGGTGGATGCCATTGTCAACGCTGCCAACAGCT  
CCCTGCTTGGAGGCGGAGGGGTGGACGGCTGCATTCATCGGGCCGCGGGATCCCTGCTCACGGACGAATG  
CCGCACCTACAGAACTGCGAGACCGGCAAAGCCAAGATCACTTGC GGCTATCGGCTGCCAGCCAAGTAT  
GTCATCCACACGGTGGGGCCATCGCCGTGGGCCAACCCACTGCCAGCCAGGCGGCGGAGCTCCGCAGCT  
GCTACTTGAGCAGCCTGGACCTGCTGCTGGAGCACCGGCTGCGCTCAGTGGCTTTCCCGTGCATCTCCAC  
AGGCGTGTGGCTACCCCAATGAGGAGGCTGCAGAAGTAGTGTGGCTTCGCTGCGGGAATGGCTGGAG  
CAGCACAAGGACAAGGTGGATCGGCTCATCATCTGTGTGTTCCTGGAGAAGGACGAGGGCATTACCGGG  
AGCGCTGCCCATTTCCAGTAGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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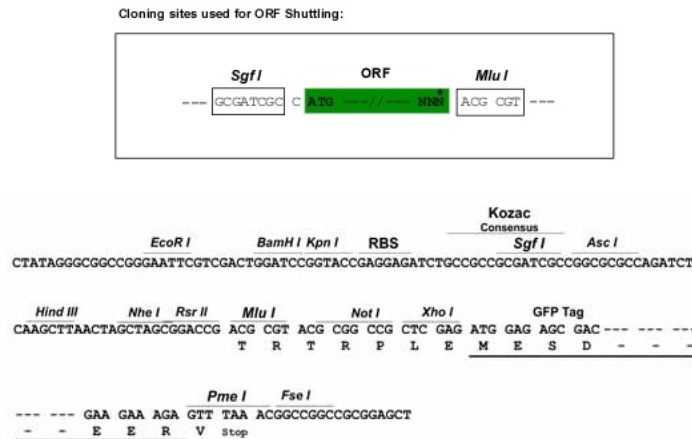
**Protein Sequence:** >MG203012 representing NM\_134147  
 Red=Cloning site Green=Tags(s)

MAAKVDLSTSTDWKEAKSFLKGLSDKQREEHYFCKDFIKLKKIPTWKETAKGLAVKVEDPKYKDKQLNE  
 KISLYRGDITKLEVDIAIVNAANSSLLGGGGVDGCIHRAAGSLLTDECRTLQNCETGKAKITCGYRLPAKY  
 VIHTVGP IAVGQPTASQAAELRSCYLSLDDLLEHRLRSVAFPCISTGVFGYPNEEAAEVVLASLREWLE  
 QHKDKVDRLIICVFLEKDEGIYRERLPHYFPVA

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_134147

**ORF Size:** 729 bp

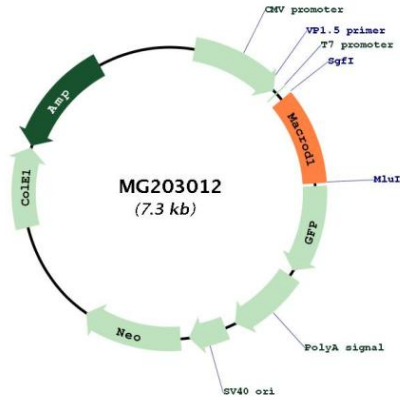
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

<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>	<u>NM_134147.1</u>
<b>RefSeq Size:</b>	1229 bp
<b>RefSeq ORF:</b>	972 bp
<b>Locus ID:</b>	107227
<b>UniProt ID:</b>	<u>Q922B1</u>
<b>Cytogenetics:</b>	19 A
<b>Gene Summary:</b>	Removes ADP-ribose from asparatate and glutamate residues in proteins bearing a single ADP-ribose moiety. Inactive towards proteins bearing poly-ADP-ribose. Deacetylates O-acetyl-ADP ribose, a signaling molecule generated by the deacetylation of acetylated lysine residues in histones and other proteins. Plays a role in estrogen signaling. Binds to androgen receptor (AR) and amplifies the transactivation function of AR in response to androgen. May play an important role in carcinogenesis and/or progression of hormone-dependent cancers by feed-forward mechanism that activates ESR1 transactivation. Could be an ESR1 coactivator, providing a positive feedback regulatory loop for ESR1 signal transduction. Could be involved in invasive growth by down-regulating CDH1 in endometrial cancer cells. Enhances ESR1-mediated transcription activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG203012