

Product datasheet for MR203012

MacroD1 (NM_134147) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MacroD1 (NM_134147) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: MacroD1
Synonyms: AI604841; AW743046; D930010J01Rik; Lrp16
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR203012 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCGAAGGTGGACCTGAGCACCTCCACCGACTGGAAGGAGGCCAAATCCTTTCTGAAGGGCCTGA
GTGACAAGCAGAGAGAGGAACATTACTTCTGCAAGGATTCATTAAGCTGAAGAAGATCCCCACGTGGAA
GGAGACAGCAAAAGGGCTGGCTGTGAAGGTGGAGGACCCCAAGTATAAGAAGGACAAGCAACTGAATGAG
AAAATCTCCCTGTACCGTGGGGACATACCAAGCTGGAGGTGGATGCCATTGTCAACGCTGCCAACAGCT
CCCTGCTTGGAGGCGGAGGGGTGGACGGCTGCATTCATCGGGCCGCGGGATCCCTGCTCACGGACGAATG
CCGCACCTACAGAACTGCGAGACCGGCAAGCCAAGATCACTTGC GGCTATCGGCTGCCAGCCAAGTAT
GTCATCCACACGGTGGGGCCATCGCCGTGGGCCAACCCACTGCCAGCCAGGCGGCCGAGCTCCGCAGCT
GCTACTTGAGCAGCCTGGACCTGCTGCTGGAGCACCGGCTGCGCTCAGTGGCTTTCCCGTGCATCTCCAC
AGGCGTGTGGCTACCCAATGAGGAGGCTGCAGAAGTAGTGTGGCTTCGCTGCGGGAATGGCTGGAG
CAGCACAAGGACAAGGTGGATCGGCTCATCATCTGTGTGTTCTGGAGAAGGACGAGGGCATTACCGGG
AGCGCTGCCCATTTCCAGTAGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203012 protein sequence
Red=Cloning site Green=Tags(s)

MAAKVDLSTSTDWKEAKSFLKGLSDKQREEHYFCKDFIKLKKIPTWKETAKGLAVKVEDPKYKDKQLNE
 KISLYRGDITKLEVDIVNAANSSLLGGGGVDGCIHRAAGSLLTDECRTLQNCETGKAKITCGYRLPAKY
 VIHTVGP IAVGQPTASQAAELRSCYLSLDDLLEHRLRSVAFPCISTGVFGYPNEEAAEVVLASLREWLE
 QHKDKVDRLIICVFLEKDEGIYRERLPHYFPVA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_134147

ORF Size: 729 bp

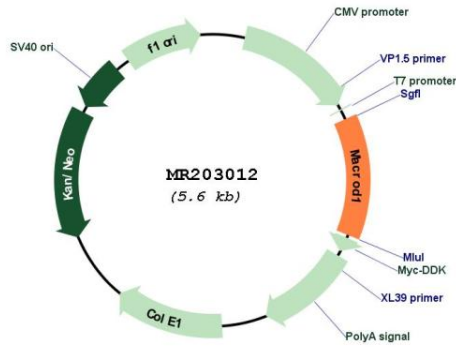
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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.

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:	<ol style="list-style-type: none">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_134147.1
RefSeq Size:	1284 bp
RefSeq ORF:	972 bp
Locus ID:	107227
UniProt ID:	Q922B1
Cytogenetics:	19 A
MW:	27.1 kDa
Gene Summary:	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 MR203012