

Product datasheet for **RG200992**

MACROD1 (NM_014067) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MACROD1 (NM_014067) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MACROD1
Synonyms:	LRP16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200992 representing NM_014067 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTTACAGAGCCGACTGTCCGGCCGCTGGCACAGCTGCGCGGGCGGGCAGCTGCTCGTCCCC
CGCGCCCCGGCCCGGACACTTGGCGGGTGCCACGAGGACCCGCAGCAGCACGTGCGGTCCCCGGCGTT
CCTGGGCGTGTTCGGCCCGCTGCGCGGACCTCGGCGGGAGTTGGGGCGTGGGGGGCGGGCGGTGGG
CGGACAGCCGGGTGCGCACTTGGCCCCCTGGCCATGGCGGCAAGGTGGACCTGAGCACCTCCACCG
ACTGGAAGGAGGGGAAATCCTTTCTGAAGGGCCTGAGTGACAAGCAGCGGAGGAACATTACTTCTGCAA
GGACTTTGTCAAGGCTGAAGAAGATCCCGACATGGAAGGAGATGGCGAAAGGGGTGGCTGTGAAGGTGGAG
GAGCCCAGGTATAAAAAGGACAAGCAGCTCAATGAGAAAATCTCCCTGCTCCGCAGCGACATCACC AAGC
TGGAGGTGGACGCCATCGTCAACGCCGCAACAGCTCCCTGCTCGGAGGCGGTGGCGTGGACGGCTGCAT
TCATCGGGCCCGCCGCCCTGCTTACCGACGAGTGCCGACCCCTGCAGAGCTGTAAGACTGGCAAGGCC
AAGATCACCGGCGGTATCGGCTCCCGGCAAGTACGTATCCACACAGTGGGGCCCATCGCTACGGGG
AGCCCAGCGCCAGCCAGGCTGCCGAGCTCCGCAGCTGCTACCTGAGCAGTCTGGACCTGCTGCTGGAGCA
CCGGCTCCGCTCGGTGGCGTTCCCCTGCATCTCCACCGCGTGTGGCTACCCCTGTGAGGCGGGCCGC
GAGATCGTGTGGCCACGCTGCGAGAGTGGCTGGAGCAGCACAAGGACAAGGTGGACCGGCTGATCATCT
CGGTGTTCTCGAGAAGGACGAGGACATCTACCGAGCCGGCTCCCCACTACTTCCCCGTGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200992 representing NM_014067
 Red=Cloning site Green=Tags(s)

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MSLQSRLSGRLAQLRAAGQLLVPPRPRPGHLAGATRTRSSTCGPPAFLGVFGRRTSAGVGAWAAAAGV
RTAGVRTWAPLMAAAKVDLSTSTDWKEAKSFLKGLSDKQREEHYFCKDFVRLKKIPTWKEMAKGVAVKVE
EPYKDKQLNEKISLLRSDITKLEVDIAVNAANSLLGGGVDCIHRAAGPLLTDCTRLQSKTGKA
KITGGYRLPAKYVIHTVGPIAYGEPSPASQAAELRSCYLSSDLLLEHRLRSVAFPCISTGVFGYPCEAAA
EIVLATLREWLEQHKDKVDRLIICVFLEKDEDIYRSRLPHYFPVA
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014067

ORF Size: 975 bp

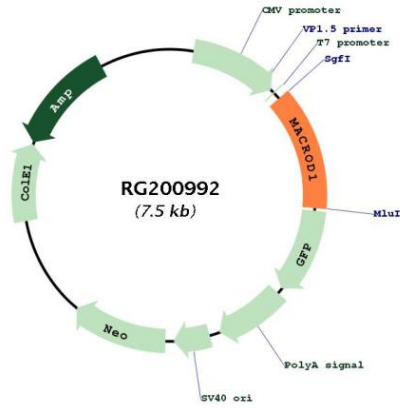
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<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.
RefSeq:	<u>NM_014067.2</u> , <u>NP_054786.2</u>
RefSeq Size:	1225 bp
RefSeq ORF:	978 bp
Locus ID:	28992
UniProt ID:	<u>Q9BQ69</u>
Cytogenetics:	11q13.1
Gene Summary:	<p>Removes ADP-ribose from asparatate and glutamate residues in proteins bearing a single ADP-ribose moiety (PubMed:23474714, PubMed:23474712). Inactive towards proteins bearing poly-ADP-ribose (PubMed:23474714, PubMed:23474712). Deacetylates O-acetyl-ADP ribose, a signaling molecule generated by the deacetylation of acetylated lysine residues in histones and other proteins (PubMed:21257746). Plays a role in estrogen signaling (PubMed:17893710, PubMed:17914104, PubMed:19403568). Binds to androgen receptor (AR) and amplifies the transactivation function of AR in response to androgen (PubMed:19022849). May play an important role in carcinogenesis and/or progression of hormone-dependent cancers by feed-forward mechanism that activates ESR1 transactivation (PubMed:17893710, PubMed:17914104). Could be an ESR1 coactivator, providing a positive feedback regulatory loop for ESR1 signal transduction (PubMed:17914104). Could be involved in invasive growth by down-regulating CDH1 in endometrial cancer cells (PubMed:17893710). Enhances ESR1-mediated transcription activity (PubMed:17914104).[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for RG200992