

Product datasheet for **SC304034**

MACROD1 (NM_014067) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	MACROD1
Synonyms:	LRP16
Mammalian Cell	None
Selection:	
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_014067 edited
GAGAGACACTCCCAGCGCCGTAAGTAGAGTCCAAGTGGGCGGAGAGCCGTCCCGCGCCG
CCCGCTCATGTCTCTACAGAGCCGACTGTCCGGCCGCTGGCACAGCTGCGCGCGGCGGG
GCAGCTGCTCGTCCCCCGCGCCCCGGCCGACACTTGGCGGGTGCCACGAGGACCCG
CAGCAGCACGTGCGGTCCCCGGCGTTCTGGGCGTGTTCGGCCGCGGTGCGCGGACCTC
GGCGGGAGTTGGGCGTGGGGGGCGGCGGCGTGGGGCGGACGCCGGGTGCGCACTTG
GGCCCCCTGGCCATGGCGGCGAAGGTGGACCTGAGCACCTCCACCGACTGGAAGGAGGC
GAAATCCTTTCTGAAGGCCTGAGTGACAAGCAGCGGGAGGAACATTACTTCTGCAAGGA
CTTTGTGAGGCTGAAGAAGATCCCAGCATGGAAGGAGATGGCGAAAGGGGTGGCTGTGAA
GGTGGAGGAGCCAGGTATAAAAAGGACAAGCAGCTCAATGAGAAAATCTCCCTGCTCCG
CAGCGACATACCAAGCTGGAGGTGGACGCCATCGTCAACGCCGCAACAGCTCCCTGCT
CGGAGGCGGTGGCGTGGACGGCTGCATTATCGGGCCGCCGCCCTGCTTACCGACGA
GTGCCGACCCTGCAGAGCTGTAAGACTGGCAAGGCCAAGATCACCGGCGGCTATCGGCT
CCCGGCCAAGTACGTATCCACACAGTGGGGCCATCGCTACGGGAGCCAGCGCCAG
CCAGGTGCCGAGCTCCGAGCTGCTACCTGAGCAGTCTGGACCTGCTGCTGGAGCACCG
GCTCCGCTCGGTGGCGTTCCCCTGCATCTCCACCGGCGTGTGGTACCCCTGTGAGGC
GGCCGCCGAGATCGTGTGGCCACGCTGCGAGAGTGGCTGGAGCAGCACAAAGACAAGGT
GGACCGGCTGATCATCTGCGTGTTCCTCGAGAAGGACGAGGACATCTACCGAGCCGGCT
CCCCCACTTCCCGTGGCTGAGGCTCCCGCAGCCACCCTGACCGGGAAGTACCCG
CCTTCGGGACCCCGCTCCAGCTCTGAGAGGTGCGCAAGCCTGCAGCCTGGCCTGGGCC
TGGCCACCCCTTCTTCCCTCCGCGCCCGCCCGGAGGAGCTAATAAGATCTCGTTG
TGGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites:	Please inquire
ACCN:	NM_014067



Insert Size:	1200 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<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:

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]