

Product datasheet for **RG222689**

MACROD2 (NM_080676) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MACROD2 (NM_080676) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MACROD2
Synonyms:	C2orf133; C20orf133
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222689 representing NM_080676 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACCCAGCAACAAGAAGAAAAAGGTGTGGAGAGAGGAGAAAGAACGTTTATTGAAGATGACCTTAG
AAGAGAGACGCAAGAATACCTAAGAGACTATATCCCTGAACAGCATTCTGTCATGGAAGGAGGAGAT
GAAGGGCAAGGGCAAAATGATGAAGAAAATACTCAGGAAACATCCAGGTGAAGAAAAGTTTGACTGAA
AAAGTTTCTCTATAGAGGTGACATCACATTGCTAGAGGTAGATGCTATAGTCAATGCCGCAAATGCCA
GTCTTCTTGAGGAGGAGGTGTGGATGGCTGTATTCATAGAGCAGCCGGCCCTGTTTGCTAGCTGAATG
TCGTAACCTGAATGGCTGTGATACTGGACATGCAAAAATCACATGTGGCTATGACCTTCTGCAAAAAT
GTCATCCATACTGTAGGGCCAATAGCCAGGGGCCATTAATGGTTCACCAAGGAAGACCTTGCAAAAT
GCTATAAATCATCTCTGAAGCTCGTGAAAGAAAATAACATCCGATCAGTTGCATTTCCCTGCATCTCAAC
AGGCATTTATGGCTTTCCCAACGAGCCTGCTGCAGTCAATGCCCTCAACACCATTAAGGAATGGCTTGCC
AAGAATCACCATGAGGTGGATCGGATCATTTTCTGTGCTCTTAGAAGTTGACTTCAAAATCTACAAAA
AGAAAAATGAATGAGTTTTTCTCCGTAGACGATAAATGAAGAAGAAGAGGATGTTGAAATGAAAGAAGA
TTCAGATGAGAACGGTCCAGAGGAGAAGCAAAGTGTGGAAGAAAATGGAAGAGCAGAGCCAAGATGCAGAT
GGTGTCAACACTGTCCTGTGCCCGCCCTGCTTCAGAAGAGGCAGTTGAAGACTGTAAGATGAAGATT
TTGCAAAGGATGAAAATATTACAAAAGGCGGTGAAGTGACAGATCATTCTGTGCGTGACCAAGATCATCC
CGATGGACAAGAGAATGATTCAACGAAGAATGAAATAAAAATTGAAACAGAATCGCAGAGCTCATATATG
GAAACAGAAGAACTTTCATCAAACCAAGAAGATGCCGTGATTGTGGAGCAACCAGAAGTATTCCATTAA
CAGAGGACCAAGAAGAAAAAGAAGGTGAAAAAGCTCCAGGCGAGGACACACCTAGGATGCCTGGGAAAAG
TGAAGGCTCCAGTGACCTAGAAAATACTCCAGGTCCTGATGCAGGGCCACAAGATGAAGCGAAGGAACAA
AGAAATGGAACTAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222689 representing NM_080676
Red=Cloning site Green=Tags(s)

MYP SNKKKKVWREERLLKMTLEERRKEYLRDYIPLNSILSWKEEMKGGKQND EENTQETSQVKKSLTE
 KVSLYRGDITLLEVDIVNAANASLLGGGGVDGCIHRAAGPCLLAECRN LNGCDTGHAKITCGYDLPKY
 VIHTVGP IARGHINGSKEDLANCYKSSLLKLVKENNIRSVAFPCISTGIYGFNP EAAVIALNTIKEWLA
 KNHHEVDRIIFCVFLEVDFKIYKKMNEFFSVDDNNEEEEDVEMKEDSDENGPEEKQSVEEMEEQSQDAD
 GVNTVTVPGPASEEAVEDCKDEDFAKDENITKGGEVTDHSVRDQDHPDQEQENDSTKNEIKIETESQSSYM
 ETEELSSNQEDA VIVEQPEVIPLTEDQEEKEGEKAPGEDTPRMPGKSEGSSDLENTPGPDAGA QDEAKEQ
 RNGTHK

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_080676

ORF Size: 1275 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.

RefSeq: [NM_080676.5](#), [NP_542407.2](#)

RefSeq Size: 4863 bp

RefSeq ORF: 1278 bp

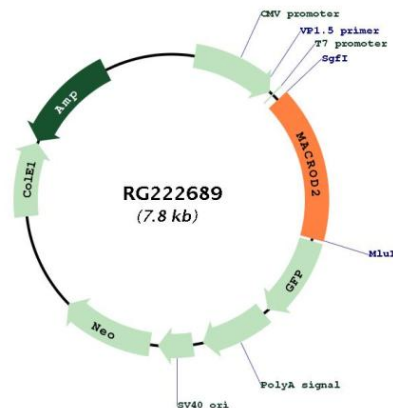
Locus ID: 140733

UniProt ID: [A1Z1Q3](#)

Cytogenetics: 20p12.1

Gene Summary: The protein encoded by this gene is a deacetylase involved in removing ADP-ribose from mono-ADP-ribosylated proteins. The encoded protein has been shown to translocate from the nucleus to the cytoplasm upon DNA damage. [provided by RefSeq, May 2017]

Product images:



Circular map for RG222689