

Product datasheet for **MG204053**

Rel2 (NM_153793) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rel2 (NM_153793) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rel2
Synonyms: 4631403P03Rik; ependolin
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204053 representing NM_153793
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGGAACCACAGCCTGACCTGGAGCCGCCCAACATGGGCTGTACATGCTCTTCTGCTTGTGCTGG
 TCTTCTTCTCATGGCCTTGTAGGCTTCATGATCTGCCACGTGCTCAAGAAGAAAGGCTACCGCTGCCG
 CACGTCTAGGGGCTCAGAGCCTGATGATGCCAGCTCCAGCCCCCTGAAGACGATGACGTGAATGAGGAC
 ACAGTAGAGCGGATTGTCGCTGCATCATCCAAAATGAAGCCAATGCTGAGGCCTTGAAGGAGATGCTAG
 GGGACAGTGAAGGAGAAGGGACGGTGCAGCTCTCCAGTGTGGATGCCACCTCCAGCCTGCAGGACGGAGC
 CCCTCCCATCATCACAGTGCACCTTGGCTCTGCAGCTCCTTGATCCACTGCAGCCGAGCAAGAGG
 CCCCCACTTGCCGTGAGGTCGCTCTAAGGAAGGAAAAAGCCGTCACAGCCTGGAGAGACCCTGTTT
 TTTTCAAGTGGGAGATTCCGAGTAACACACATTGAGAAGCGCTACGGCCTACATGAACATCGTGATGGTTC
 CCCTACGGACAGAAGCTGGGCTCTGGTGGAGGGCAGGAGCCAGGGGGTAGTCAGGCGGCTGGAGGAGGG
 CAGCCTAGGACAGGGACAGCTGCCATTGAGAGGCTGCTCCCTGAGCCGCCACCCTCCAGGCCGAGCCA
 CCCACTCAGTGCAGAACGAAGACTCCAGGATGCCAGCCTCGTCCCTGTACACTTGAGGGGACCCCTGG
 AACCTCTGCAGAACTGAACCTGGGCCCTAGAGGGAGAGACCCAAGCCCAGGGCTGTCTAGTCAAGAAGCA
 AATGGACAGCCAACCAAACTGGACACCTCAGGTCAGCAGGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204053 representing NM_153793
Red=Cloning site Green=Tags(s)

MSEPQPDLEPPQHGLYMLFLLLVFFLMGLVGFMI CHVLK KKKGYRCRTSRGSEPDDAQLQPPEDDDDVNE
TVERIVRCIIQNEANAELKEMLDSEGETVQLSSVDATSSLQDGAPSHHHTVHLGSAAPCIHCSRKR
PPLVRQGRSKEGKSRPRPGETTVF SVGRFRVTHIEKRYGLHEHRDGSPTDRSWGSGGGQEPGGSQAAGGG
QPRTGTA AIERLLPEPPPSQAAATHSVQNGRLQDASLVPC TLEGTPTGSAELNLGPRGRDPSPLSSQEA
NGOPTKLD TSGQQV

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1694_e02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_153793

ORF Size: 882 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_153793.1](#), [NP_722488.1](#)

RefSeq Size: 2090 bp

RefSeq ORF: 912 bp

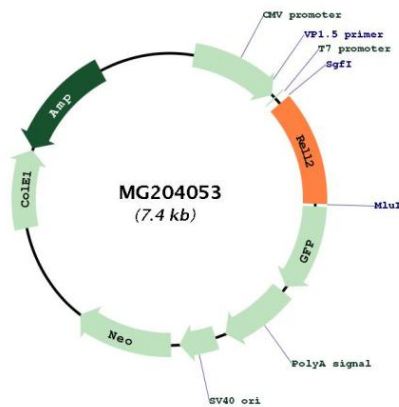
Locus ID: 225392

UniProt ID: [Q8BRJ3](#)

Cytogenetics: 18 B3

Gene Summary: Induces activation of MAPK14/p38 cascade, when overexpressed. Induces apoptosis, when overexpressed.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG204053