

Product datasheet for **RR210067**

Rel2 (NM_001014149) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rel2 (NM_001014149) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rel2
Synonyms:	RGD1305276
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR210067 representing NM_001014149 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGAACACAGCCTGGCCTGGAGCCGCCCAACATGGGCTGTACATGCTCTTCCTGCTTGTGCTGG
TCTTCTTCCTCATGGCCTTGTAGGCTTCATGATCTGCCACGTGCTCAAGAAGAAAGGCTACCGCTGTGC
CACATCTAGGGGCTCAGAGCCTGATGATGCCAGCTCCAGCCCCCTGAAGACGATGACGTGAATGAGGAC
ACAGTAGAGCGGATTGTTGCTGCATCATCCAAATGAAGCCAATGCTGAGGCCTTGAAGGAGATGCTAG
GGGACAGTGAAGGAGAAGGGACGGTACAGCTCTCCAGTGTGGATGCCACCTCCAGCCTGCAGGATGGAGC
CCCTTCTCATCATCACAGTACACCTTGGCTCTGCAGCTCCTTGATCCACTGCAGCCGAGCAAGAGG
CCCCCACTTGTCGCCAGGGTCGCTCTAAGGAAGGAAAAGGCCGCCCAAGACCTGGAGAGACCACTGTAT
TCTCAGTGGGCAGATTCCGAGTGACACACATTGAGAAGCGCTATGGCCTTCATGAACACCGTGATGGTTC
CCCTACAGACAGAAGCTGGGCTCTGGTGGAGGACAGGAACAGGGGTTAGTCAGGTGGCTGGAGGGCAG
CCTAGGACAGGGACAGCTGCCATTGAGAGGCTGCTCCCTGAGCCACCACCTCCCAGGCCGAGCCACCC
ACCCAGTGCAGAAATGGAAGACTCAAGGATGCCAGCCTAGTCCCTTGACACTTGAGGGGACCCCTGGTAC
CTCTGCAGAACTGAACGTGGGCACTAGAGGGACAGGCCCAAGCCAGGGTGCCTAGTCAAGAAGCAAAT
GGACAGCAACCAAATGGACACCTCAGGTCAGCAGGACTCTCTACCACCAGAAGCAGGGGGTATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR210067 representing NM_001014149
 Red=Cloning site Green=Tags(s)

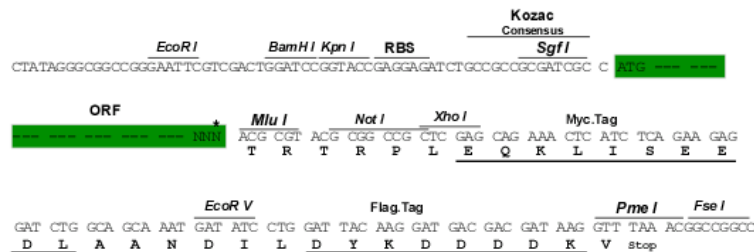
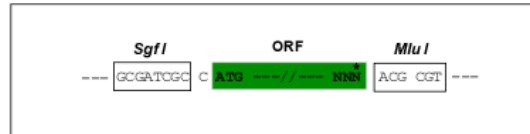
MSEPQPGLEPPQHGLYMLFLLVLVFFLMGLVGFMIHVLLKKGYRCRTSRGSEPDDAQLQPPEDDDVNED
 TVERIVRCIIQNEANAEALKEMLDSEGETVQLSSVDATSSLQDGAPSHHHTVHLGSAAPCIHCSRKR
 PPLVRQGRSKEGKGRPRPGETTVF SVGRFRVTHIEKRYGLHEHRDGSPTDRSWGSGGGQEPGVSQVAGGQ
 PRTGTAAIERLLPEPPPSQAAATHPVQNGRLKDALVPCTLEGTPGTSaelNVGTRGTGPSPGLPSQEAN
 GQPTKLDTSGQDQLPPEAGGM

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_001014149

ORF Size: 906 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_001014149.1](#), [NP_001014171.1](#)

RefSeq Size: 1764 bp

RefSeq ORF: 909 bp

Locus ID: 361313

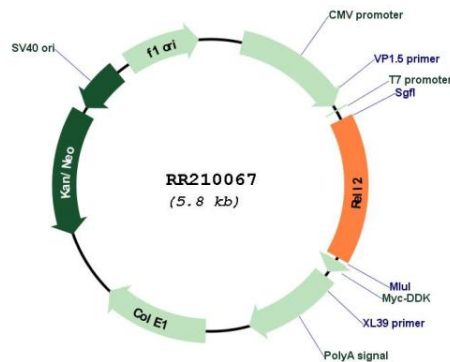
UniProt ID: [Q5FVJ4](#)

Cytogenetics: 18p11

MW: 32.1 kDa

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

Product images:



Circular map for RR210067