

Product datasheet for **RC208967**

RELL2 (NM_173828) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RELL2 (NM_173828) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RELL2
Synonyms:	C5orf16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208967 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGAACACAGCCTGACCTGGAACCGCCCCAACATGGGCTATATGCTCTTCTGCTTGTGCTGG
TCTTCTTCTCATGGCCTGGTAGGCTTCATGATCTGCCACGTGCTCAAGAAGAAGGGCTACCGTGCCG
CACGTCGAGGGGCTCTGAGCCTGACGATGCCAGCTTCAGCCCCCTGAGGACGATGACATGAATGAGGAC
ACAGTAGAGAGGATTGTCGCTGCATCATCCAGAATGAAGCCAATGCTGAGGCCTTGAAGGAGATGCTGG
GGGACAGTGAAGGAGAAGGGACAGTGCAGCTGTCCAGTGTGGATGCCACCTCCAGCCTGCAGGACGGAGC
CCCTCCCATCATCACAGTGCACCTGGGCCCTGCAGCCCTTGATCCATTGCAGCCGAGCAAGAGG
CCTCCACTTGTCGTCAGGGACGCTCCAAGGAAGGAAAAAGCCGCCCGGACAGGGGAGACCACTGTGT
TCTCTGTGGGCAGGTTCCGGGTGACACACATTGAGAAGCGCTATGGACTGCACGAACACCGTGATGGCTC
CCCCACAGACAGGAGCTGGGCTCTCGTGGGGACAGGACCCAGGGGTGGTCAAGGGTCTGGGGAGGG
CAGCCAAGGCAGGGATGCCTGCCATGGAGAGGCTGCCCCCTGAGAGGCCACAGCCCAGGTCTAGCCA
GCCCCCAGTACAGAATGGAGGACTCAGGGACAGCAGCCTAACCCCTCGTGCCTGAAGGGAACCCAG
AGCTTCTGCAGAGCCAACACTGAGGGCCGAGGGAGGGGCCCAAGCCAGGGCTGCCACTCAAGAGGCA
AATGGGGAGCCAAGCAACCAGACACTTCTGATCACCAGGTGTCTTACCACAGGGAGCAGGGAGTATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC208967 protein sequence
 Red=Cloning site Green=Tags(s)

MSEPQPDLEPPQHGLYMLFLLVLVFFLMGLVGFMIHVLLKKKGYRCRTSRGSEPDDAQLQPPEDDDMNED
 TVERIVRCIIQNEANAEALKEMLDSEGETVQLSSVDATSSLQDGAPSHHHTVHLGPAAPCIHCSRKR
 PPLVRQGRSKEGKSRPRTGETTVFSVGRFRVTHIEKRYGLHEHRDGSPTDRSWGSRGGQDPGGGQSGGG
 QPKAGMPAMERLPPERPQVVLASPPVQNGGLRDSSLTPRALEGNPRASAEPTLRAGGRGSPGLPTQEA
 NGEPSKPDTS DHQVSLPQGAGSM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6525_f03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173828

ORF Size: 909 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_173828.5](#)

RefSeq Size: 2599 bp

RefSeq ORF: 912 bp

Locus ID: 285613

UniProt ID: [Q8NC24](#)

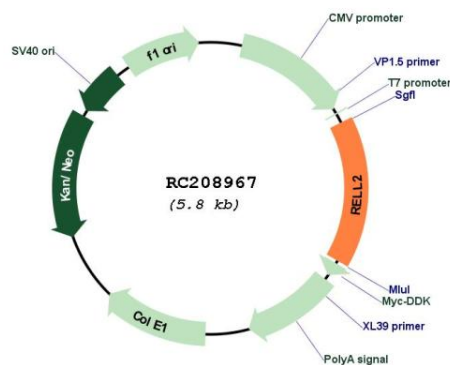
Cytogenetics: 5q31.3

Protein Families: Transmembrane

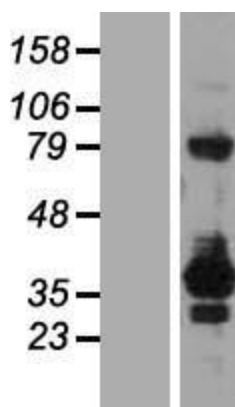
MW: 32.5 kDa

Gene Summary: Induces activation of MAPK14/p38 cascade, when overexpressed (PubMed:28688764). Induces apoptosis, when overexpressed (PubMed:19969290).[UniProtKB/Swiss-Prot Function]

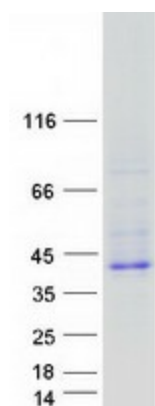
Product images:



Circular map for RC208967



Western blot validation of overexpression lysate (Cat# [LY427113]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC225425] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RELL2 protein (Cat# [TP308967]). The protein was produced from HEK293T cells transfected with RELL2 cDNA clone (Cat# RC208967) using MegaTran 2.0 (Cat# [TT210002]).