

Product datasheet for RC218745

Relaxin 3 (RLN3) (NM_080864) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Relaxin 3 (RLN3) (NM_080864) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Relaxin 3
Synonyms: H3; insI7; RXN3; ZINS4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC218745 representing NM_080864
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCAGGTACATGCTGCTGCTCCTGGCGGTATGGGTGCTGACCGGGGAGCTGTGGCCGGGAGCTG
 AGGCCCGGGCAGCGCCTTACGGGGTCAAGCTTTGCGGCCGAGAATTCATCCGAGCAGTCATCTCACCTG
 CGGGGGTCCCGGTGGAGACGATCAGACATCCTGGCCACGAGGCTATGGGAGATACCTCCCGGATGCA
 GATGCTGATGAAGACAGTCTGGCAGGCGAGCTGGATGAGGCCATGGGTCCAGCGAGTGGCTGGCCCTGA
 CCAAGTCACCCAGGCCTTTACAGGGGGCGACCCAGCTGGCAAGGAACCCTGGGGTCTTCGGGGCAG
 CCGAGATGTCCTGGCTGGCCTTCCAGCAGCTGCTGCAAGTGGGGTGTAGCAAAAGTAAATCAGTAGC
 CTTTGC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC218745 representing NM_080864
 Red=Cloning site Green=Tags(s)

MARYMLLLLLLAVWLTGELWPGAEARAAPYGVRLCGREFIRAVIFTCGGSRWRRSDILAHEAMGDTFPDA
 DADEDSLAGELEAMGSSEWLALTKSPQAFYRGRPSWQGTGVLGRSRDLVLAGLSSSCKWGCKSEISS
 LC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6100_a03.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080864

ORF Size: 426 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_080864.4](#)

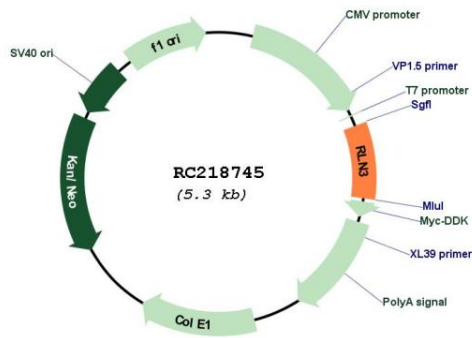
RefSeq Size: 452 bp

RefSeq ORF: 429 bp

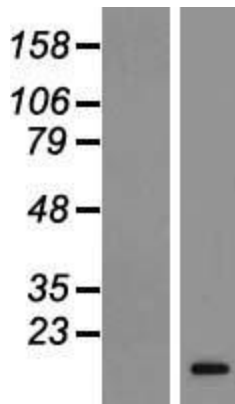
Locus ID: 117579

UniProt ID: [Q8WXF3](#)
Cytogenetics: 19p13.12
Protein Families: Druggable Genome, Secreted Protein
MW: 15.3 kDa
Gene Summary: This gene encodes a member of the relaxin family of insulin-like hormones that is expressed predominantly in the brain and plays a role in physiological processes such as stress, memory and appetite regulation. The encoded protein is a precursor that is proteolytically processed to generate a heterodimeric mature form consisting A and B chains interlinked by disulfide bonds. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2015]

Product images:



Circular map for RC218745



Western blot validation of overexpression lysate (Cat# [LY409016]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218745 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).