

Product datasheet for **RC220665**

Relaxin 2 (RLN2) (NM_134441) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Relaxin 2 (RLN2) (NM_134441) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Relaxin 2
Synonyms:	bA12D24.1.1; bA12D24.1.2; H2; H2-RLX; RLXH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220665 representing NM_134441 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTCGCCTGTTTTTTTCCACCTGCTAGGAGTCTGTTTACTACTGAACCAATTTCCAGAGCAGTCG
CGGACTCATGGATGGAGGAAGTTATTAATTATGCGGCCGCGAATTAGTTCGCGCGCAGATTGCCATTTG
CGGCATGAGCACCTGGAGCAAAAGGTCTCTGAGCCAGGAAGATGCTCCTCAGACACCTAGACCAGTGGCA
GAAATTGTGCCATCCTTCATCAACAAAGATACAGAAACCATAAATATGATGTCAGAATTTGTTGCTAATT
TGCCACAGGAGCTGAAGTTAACCTGTCTGAGATGCAGCCAGCATTACCACAGCTACAACAACATGTACC
TGATATAAAGATTCCAGTCTTCTCTTTGAAGAAATTAAGAAACTTATTCGCAATAGACAAAGTGAAGCC
GCAGACAGCAGTCCTTCAGAATTAATACTTAGGCTTGATACTCATTCTCGAAAAAGAGACAACTCT
ACAGTGCATTGGCTAATAAATGTTGCCATGTTGGTTGTACCAAAAGATCTCTTGCTAGATTTTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC220665 representing NM_134441 Red=Cloning site Green=Tags(s)
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MPRLFFHLLGVCLLLNQFSRAVADSWMEEVIKLCGRELVRAQIAICGMSTWSKRSLSQEDAPQTPRPVA
EIVPSFINKDTEINMMSEFVANLPQELKLTSEMQPALPQLQQHVPVLKDSSLLFEEFKLIRNRQSEA
ADSSPSELKYLGLDTHSRKKRQLYSALANKCCHVGCTKRSLARFC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

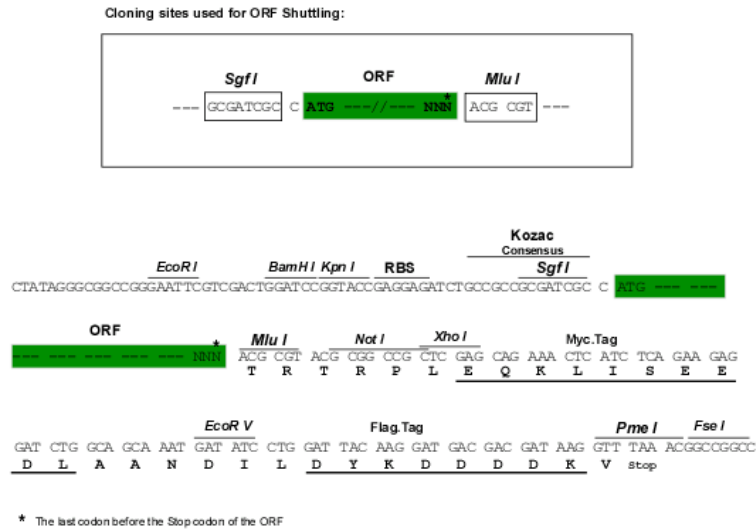
Chromatograms:	https://cdn.origene.com/chromatograms/mk6466_g11.zip
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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_134441

ORF Size: 555 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_134441.3](#)

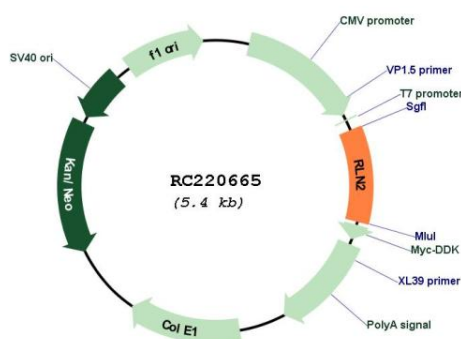
RefSeq Size: 788 bp

RefSeq ORF: 558 bp

Locus ID: 6019
 UniProt ID: [P04090](#)
 Cytogenetics: 9p24.1
 Protein Families: Secreted Protein
 MW: 20.9 kDa

Gene Summary: This gene encodes a member of the relaxin subfamily and insulin superfamily of peptide hormones. In humans there are three non-allelic relaxin genes. This gene encodes multiple protein isoforms, at least one of which undergoes proteolytic processing. This processing generates relaxin A and B chains that are linked by disulfide bonds to form the mature peptide hormone. This hormone plays a role in the male and female reproductive systems and was initially noted for its role in pregnancy. This protein also plays broader roles in the cardiovascular system, including in the regulation of blood pressure and control of heart rate, and data from animal models shows that this protein may have anti-fibrotic and cardioprotective effects. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RC220665