

Product datasheet for **RG219807**

Relaxin 2 (RLN2) (NM_005059) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Relaxin 2 (RLN2) (NM_005059) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RLN2
Synonyms: bA12D24.1.1; bA12D24.1.2; H2; H2-RLX; RLXH2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG219807 representing NM_005059
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCTCGCTGTTTTTTTCCACCTGCTAGGAGTCTGTTTACTACTGAACCAATTTCCAGAGCAGTCC
CGGACTCATGGATGGAGGAAGTTATTAATATGCGGCCGGAATTAGTTCGCGCGCAGATTGCCATTTG
CGGCATGAGCACCTGGAGCAAAGTCTCTGAGCCAGGAAGATGCTCCTCAGACACCTAGACCAGTGGCA
GGTGATTTTATTCAAACAGTCTCACTGGGAATCTCACCGACGGAGGGAAAGCACTGAGAACAGGAAGCT
GCTTCACCGAGAGTTCCTTGGTGCCCTTCCAATTGTGCCATCCTTCATCAACAAAGATACAGAAACC
A

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG219807 representing NM_005059
 Red=Cloning site Green=Tags(s)
 MPRLFFHLLGVCLLLNQFSRAVADSWMEEVIKLCGRELVRAQIAICGMSTWSKRSLSQEDAPQTPRPVA
 GDFIQTVSLGISPDGGKALRTGSCFTREFLGALSKLCHPSSTKIQKP

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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:	<ol style="list-style-type: none">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_005059.3
RefSeq Size:	889 bp
RefSeq ORF:	354 bp
Locus ID:	6019
UniProt ID:	P04090
Cytogenetics:	9p24.1
Domains:	IIGF
Protein Families:	Secreted Protein
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]