

Product datasheet for **RG203283**

Relaxin 1 (RLN1) (NM_006911) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Relaxin 1 (RLN1) (NM_006911) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Relaxin 1
Synonyms: bA12D24.3.1; bA12D24.3.2; H1; H1RLX; RLXH1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG203283 representing NM_006911
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTCGCTGTTCTTGTTCACCTGCTAGAATTCTGTTTACTACTGAACCAATTTCCAGAGCAGTCG
CGGCCAAATGGAAGGACGATGTTATTAATTATGCGGCCGGAATTAGTTCGCGCGCAGATTGCCATTTG
CGGCATGAGCACCTGGAGCAAAGGTCTCTGAGCCAGGAAGATGCTCCTCAGACACCTAGACCAGTGGCA
GAAATTGTACCATCCTTCATCAACAAAGATACAGAACTATAATTATCATGTTGGAATTCATTGCTAATT
TGCCACCGGAGCTGAAGGCAGCCCTATCTGAGAGGCAACCATCATTACCAGAGCTACAGCAGTATGTACC
TGCAATTAAGGATTCCAATCTTAGCTTTGAAGAATTTAAGAACTTATTGCAATAGGCAAAGTGAAGCC
GCAGACAGCAATCCTTCAGAATTAATACTTAGGCTTGATACTCATTCTCAAAAAAGAGACGACCCCT
ACGTGGCACTGTTTGAGAAATGTTGCCTAATTGTTGTACCAAAAGGTCTCTTGCTAAATATTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203283 representing NM_006911
Red=Cloning site Green=Tags(s)

MPRLFLHLLFCLLLNQFSRAVAKWKDDVIKLCGRELVRAQIAICGMSTWSKRSLSQEDAPQTPRPVA
EIVPSFINKDTETIIIMLEFIANLPELKAALSERQPSLPELQQYVPALKDSNLSFEFVKLIRNRQSEA
ADSNPSELKYLGLDTHSQKRRPYVALFEKCLIGCTKRSLAKYC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_006911

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.

RefSeq: [NM_006911.4](#)

RefSeq Size: 967 bp

RefSeq ORF: 558 bp

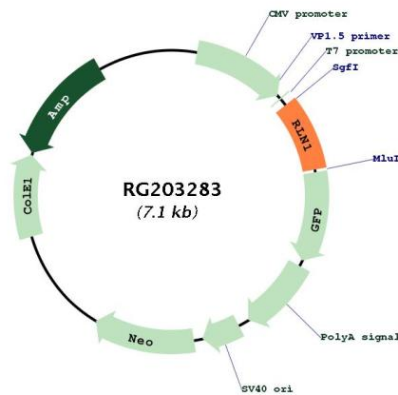
Locus ID: 6013

UniProt ID: [P04808](#)

Cytogenetics: 9p24.1
Domains: IIGF
Protein Families: Secreted Protein

Gene Summary: Relaxins are known endocrine and autocrine/paracrine hormones, belonging to the insulin gene superfamily. In humans there are three non-allelic relaxin genes, RLN1, RLN2 and RLN3, where RLN1 and RLN2 share high sequence homology. The protein encoded by this gene is synthesized as a single-chain polypeptide but the active form consists of an A chain and a B chain linked by disulfide bonds. Relaxin is produced by the ovary, and targets the mammalian reproductive system to ripen the cervix, elongate the pubic symphysis and inhibit uterine contraction. It may have additional roles in enhancing sperm motility, regulating blood pressure, controlling heart rate and releasing oxytocin and vasopressin. [provided by RefSeq, Jan 2013]

Product images:



Circular map for RG203283