

## Product datasheet for **SC319698**

### Relaxin 1 (RLN1) (NM\_006911) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Relaxin 1 (RLN1) (NM\_006911) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Relaxin 1  
**Synonyms:** bA12D24.3.1; bA12D24.3.2; H1; H1RLX; RLXH1  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_006911.2  
GGTTGAGCCGGTAGGGAAAGCAGCCTAAAGCCCGGACAGGCACACAGGCCAGGTGTG  
TAGGCCACAGCAGCCGAGTCTGAAAGGCTGCAACCCAGACCTCCAGGAGAGACCAG  
GCCCAGGATGCCTCGCCTGTTCTTGTTCACCTGCTAGAATTCTGTTACTACTGAACCA  
ATTTTCCAGAGCAGTCGCGGCCAAATGGAAGGACGATGTTATTAATTATGCGGCCGCGA  
ATTAGTTCGCGCGCAGATTGCCATTTGCGGCATGAGCACCTGGAGCAAAAGGTCTCTGAG  
CCAGGAAGATGCTCCTCAGACACCTAGACCAGTGGCAGAAATTGTACCATCCTTCATCAA  
CAAAGATACAGAACTATAATTATCATGTTGGAATTCATTGCTAATTTGCCACCGGAGCT  
GAAGGCAGCCCTATCTGAGAGGCAACCATCATTACCAGAGCTACAGCAGTATGTACCTGC  
ATTAAGGATTCCAATCTTAGCTTTGAAGAATTAAGAACTTATTCGCAATAGGCAAAG  
TGAAGCCGACAGCAATCCTTCAGAATTAATACTTAGGCTTGATACTCATTCTCA  
AAAAAAGAGACGACCCTACGTGGCACTGTTTGAGAAATGTTGCCTAATTGGTTGTACCAA  
AAGGTCTCTTGCTAAATATTGCTGAGATGAAGTAATTGTGCACATCTTGCTAATTTTC  
ACACATAGTCTTGATGACATTTCACTGATGCTTCTGTGCAAGTCCCACTAATTATTAGAAT  
ATAAGAAATCTTTATTAATGTTTAGATTTTTCATTTGGTGTGTAAGAAAATATTCTTTGT  
ATGATTGTAGTTTCTGTAATGACACTTCTATGCTGAAGTCTTTTGTCTTTTATTAA  
CAGTATAATTGTGTTGATTCTTTTAAATGCTGTTAACTTAAAATTACAATAAACCTTTG  
CCACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_006911  
**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_006911.2</a></u> , <u><a href="#">NP_008842.1</a></u>
<b>RefSeq Size:</b>	967 bp
<b>RefSeq ORF:</b>	558 bp
<b>Locus ID:</b>	6013
<b>UniProt ID:</b>	<u><a href="#">P04808</a></u>
<b>Cytogenetics:</b>	9p24.1
<b>Domains:</b>	IIGF
<b>Protein Families:</b>	Secreted Protein
<b>Gene Summary:</b>	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]