

## Product datasheet for **SC303566**

### Reelin (RELN) (NM\_005045) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Reelin (RELN) (NM_005045) Human Untagged Clone
Tag:	Tag Free
Symbol:	Reelin
Synonyms:	ETL7; LIS2; PRO1598; RL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_005045 edited  
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CGTCTTTGGTTTCTGTGGTCATCAATCCTGAACCTCAGACTCCTGCTACCAAATTTTGTCTCAGGCAAAGAACCATCAAGGACATAATAGGAATGTCTGGGCTGTAGACTTTTTCCATGTCTTGGCCTGTTCTCCCTTCTACAATGTCTCACATGATACAGTTTTCCATCAATCTGGGATGTGGAACGCATCAGCCTGGTAACAGTGTGAGCTTGGAAATTTTCTACCAACCATGGGCGCTCCTGGTCCCTCCTCACAAGTGTACCTGAGATCTGTGCTGGACCCACCTCCCCACAGACTGTCTACTCCTCTGAAAACACAGTGGGTGGAACCGAATAACAATCCCCTTCTAACGCAGCACTAACCCGGAACACCAGGATTGCTGGAGACAAACAGGACCAATCCTTGGAAACATGTGGCAATTGATAATGTTTATTGGCCCGTCATGTCTCAAATTTCTGTTCTGGCAGAGGACAGTGCAGTACAGATGGTTGCAAGTGTGACCCCTGGATTTTCTGGCCAGCTGTGAGATGGCATCCAGACATCCCAATGTTTATTCTGAAAGCTTTGGCAGTCCAGGCTCTCTTACCATAACTTTTACTCTATCCGTGGTGTGAAAGTCAAGTCTTGGTTGTGGTCTCTGGCCAGTGGTAAGGCCCTGGTTTTCAACAAAGATGGGCGGCGTCAGCTAATTACATCTTTCTTGACAGCTCACAATCCAGTTTTCTCCAGTTCACACTGAGACTGGGAGCAATCTGTTCTGAGCAGTGCAGAGCCCCTGATCAGCCTGGTGAAGGAGTTTTGTTGCATTATTCTTATGATAATGGGATAACTTGGAACTCCTGGAGCATTATTCATATCTCAGCTATCATGAGCCAGAATAATCTCCGTAGAACTACCAGGTGATGCAAAGCAGTTTGGAAATTCAGTTCAATGATGGTGGCAACCGTATCATTCTCCAGAGAGAAGATGTATGGGCTATTGATGAGATTTCATGACATCTGTGCTTTTCAACAGCATTAGTCTTGACTTTACCAATCTTGTGGAGGTCACTCAGTCTCTGGGATTCTACCTTGGAAATGTTTCAAGCATACTGTGGCCACGACTGGACCTTTGTTTTACAGGAGATTCTAACTTGCCTCAAGTATGCGCTATGTGGAAACACAATCAATGTCAGATAGGAGCATCCTATATGATTCAAGTTCAGTTTGGTGTGAGGATGTGGCCAGAAACACACCCACACATGGACAACCAGGTGAAGCTGGAGTACTCAACCAACCACGGCCTTACCTGGCACCTCGTCCAAGAAGAAATGCCTTCCAAGTATGCCAAGTTGTCAGAAATTTACATCAGCAAGTATTTACCATGCCAGTGAAGTTTACACAGTGGAGGAGATCATAGTGTCTTCCCCAGAAAACCTTGGTCCAGTGTACCCGTTTTCCGCTGGAGCCAGAGCTATTACACAGCTCAAGACGAGTGGGCTTTGGACAGCATTACATTGGGCAGCAGTGCCCAACATGTGCAGTGGGATGGCTCATGCGATCATGGCATATGCAGGTGTGACCAGGGGTACCAAGGCACTGAATGCCACCCAGAAGCTGCCCTCCGTCACAAATATGTCAGATTTTGAAGCAGAAATGGCTGGAGTCTGACTGGCAAGAAGTTATTGGGGGAGAAATGTAAAACCAGAACAGGGTGTGGTGTATCTCTTCTGGATCATCTCTGTACTTCAAGCAAGGCTGGGAAAAGACAGCTGGTGAAGTTGGGACCTGGATACTTCTGGGTGACTTTGTCCAGTTCTACATCCAGATAGGCGGAGAGGTGCTTATGCAACAAGCCTGACAGCAGAGAGGAGGGCGTCTCCTTCACTACAGCAACAATGGGGGCATCCAGTGGCACCTGTAGCAGAGATGTACTTTTCAAGCTTCCAGCAAACCCAGATTTGTCTATCTGGAGCTTCCAGCTGTGCAAGACCCCTTGCACCAGGTTCCGCTGGTGGCAGCCCGTGTCTCAGGGGAGGACTATGACCAGTGGGAGTGCATGACATCATCATTCTGTCCGAGAAGCAGAAGCAGATCATCCAGTTATCAATCCAACCTTACCTCAGAACCTTTATGAGAAGCCAGCTTTTGAATACCTATGAATCAGATGAGTGTGTGGTTGATGTTGGCTATGAAGGAATGGTTAAAAATGAAACCTTCTGTGCTGCCACACATCAGCAATGATATTTGGAAAAATCAGATGGAGATCGATTTGCAGTAACTCGAGATTTGACCCTGAAACCTGGATATGTGTACAGTTCAAGCTAAACATAGGTTGTGCAATCAATTCAGCAGTACTGCTCCAGTTCTTCTCAGTACTCTCATGATGCTGGTATGTCTGGTTTTCTGGTGAAGAAGGCTGTTACC CGGCTTCTGCAGGCAAAGGATGCGAAGGAACTCCAGAGAACTAAGTGAAGCCACCATGTATCACACAGGGGACTTTGAAGAATGGACAAGAATCACCATTGTTATTCCAAGGTCTCTTGCATCCAGCAAGACCAGATCCGATGGATCCAGGAGAGCAGCTCACAGAAAAACGTGCCTCATTGGTTTTAGATGGAGTGTACATATCCGAGCCTTGTCCAGTACTGCAGTGGCCATGGGACTGCATTTCAAGAGTGTGTTTCTGTGACCTGGGATATACTGCTGCACAAGGAACCTGTGTGTCAAATGTCCCAATCACAATGAGATGTTTCGATAGGTTTGAAGGGAAGCTCAGCCCTCTGTGGTACAAGATAACAGGTGCCAGGTTGGAACCTGGCTGTGGAACCTTAACGATGCAAATCTCTCTACTTCAATGGCCCTGGGAAAAGGGAAGCCCGGACGGTCCCTCTGGACACCAGGAATATCAGACTTGTCAATTTTATATACAAATTGGAAGCAAACTTCAAGGCATTA CCTGCATCAAACCAAGAAGTAAAGTGAAGGGCTATTGTTTCAAGTATTCAAATGACAATGGATACTCTGGCATTGCTTCGAGAGTTGGACTTCATGTCCTTCTGGAACCCACAGATCA

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**Restriction Sites:** Please inquire

**ACCN:** NM\_005045

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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).

**OTI Annotation:** The open reading frame of this TrueClone was fully sequenced and found to differ from the protein associated to this reference by two amino acids.

**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\\_005045.2](#), [NP\\_005036.2](#)

**RefSeq Size:** 11564 bp

**RefSeq ORF:** 10383 bp

**Locus ID:** 5649

**UniProt ID:** [P78509](#)

**Cytogenetics:** 7q22.1

**Protein Families:** Druggable Genome

**Protein Pathways:** ECM-receptor interaction, Focal adhesion

**Gene Summary:** This gene encodes a large secreted extracellular matrix protein thought to control cell-cell interactions critical for cell positioning and neuronal migration during brain development. This protein may be involved in schizophrenia, autism, bipolar disorder, major depression and in migration defects associated with temporal lobe epilepsy. Mutations of this gene are associated with autosomal recessive lissencephaly with cerebellar hypoplasia. Two transcript variants encoding distinct isoforms have been identified for this gene. Other transcript variants have been described but their full length nature has not been determined. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the longer transcript, and encodes the longer isoform (a). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.