

## Product datasheet for **RC222655**

### Reelin (RELN) (NM\_005045) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Reelin (RELN) (NM_005045) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Reelin
Synonyms:	ETL7; LIS2; PRO1598; RL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222655 representing NM_005045 Red=Cloning site Blue=ORF Green=Tags(s)

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**Protein Sequence:**

>RC222655 representing NM\_005045

Red=Cloning site Green=Tags(s)

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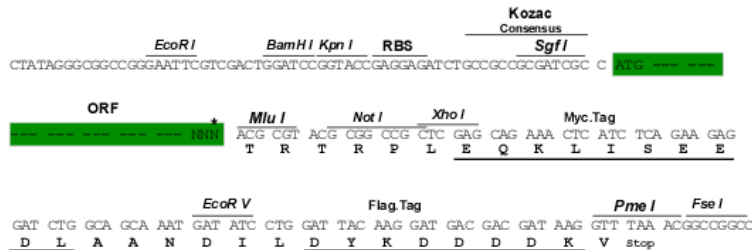
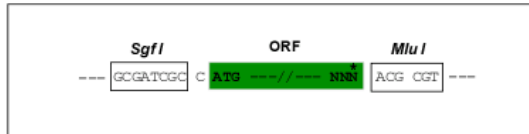
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Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

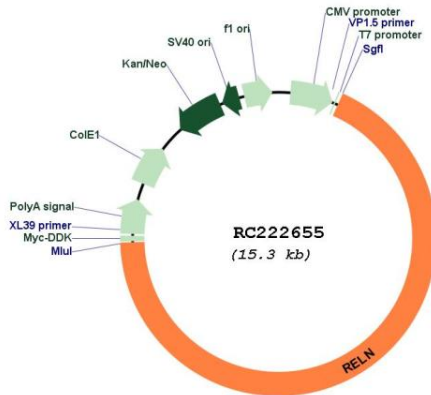
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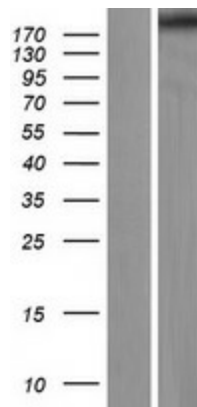
<b>ORF Size:</b>	10380 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid 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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_005045.4</a>
<b>RefSeq Size:</b>	11564 bp
<b>RefSeq ORF:</b>	10383 bp
<b>Locus ID:</b>	5649
<b>UniProt ID:</b>	<a href="#">P78509</a>
<b>Cytogenetics:</b>	7q22.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	ECM-receptor interaction, Focal adhesion
<b>MW:</b>	388.2 kDa

**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]

**Product images:**


Circular map for RC222655



Western blot validation of overexpression lysate (Cat# [LY417537]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222655 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).