

Product datasheet for **SC336994**

LINGO1 (NM_001301195) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LINGO1 (NM_001301195) Human Untagged Clone
Tag:	Tag Free
Symbol:	LINGO1
Synonyms:	LERN1; LRRN6A; MRT64; UNQ201
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

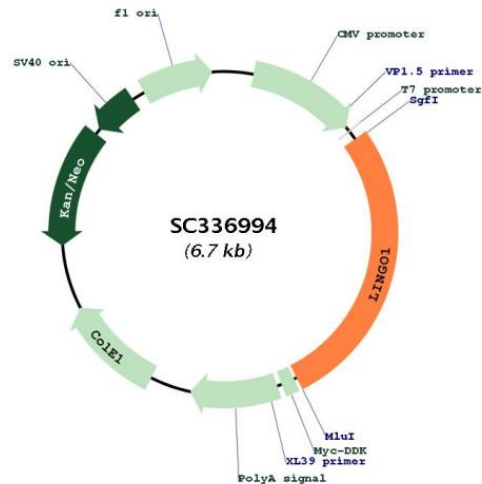


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Fully Sequenced ORF: >SC336994 representing NM_001301195.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGGCGGGGGCGTGAGGAGCATGCCAGCCCCCTCCTGGCCTGCTGGCAGCCCATCCTCCTGCTG
GTGCTGGGCTCAGTGCTGTGACCGCAAGCGCTTTGTGGCAGTCCCGAGGGCATCCCCACCGAGACGCGCCTG
CGCGCTGTGCTGTGCCACCGCAAGCGCTTTGTGGCAGTCCCGAGGGCATCCCCACCGAGACGCGCCTG
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CGGACGCTGGGTCTCCGACGCAACCGCTGAAGCTCATCCCGCTAGGCGTCTTCACTGGCCTCAGCAAC
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TCAGCCAAGAGCAATGGGCGGCTCACAGTCTTCCCTGATGGCAGCTGGAGGTGCGCTACGCCCAGGTA
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CATGTGCGCAGCTACTCGCCGACTGGCCCATCAGCCCAACAAGACCTTCGCTTTCATCTCAACCCAG
CCGGGCGAGGGAGAGGCAACAGCACCCGCGCCACTGTGCCTTCCCTTCGACATCAAGACCCTCATC
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TGGAGCCGGGCAAGGGCAACACAAGCACAACATCGAGATCGAGTATGTGCCCGAAAGTCGGACGCA
GGCATCAGCTCCGCCGACGCGCCCGCAAGTTCAACATGAAGATGATATGA
ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001301195

Insert Size: 1845 bp

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).

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_001301195.1](#)

RefSeq Size: 3281 bp

RefSeq ORF: 1845 bp

Locus ID: 84894

UniProt ID: [Q96FE5](#)

Cytogenetics: 15q24.3

Protein Families: Druggable Genome, Transmembrane

MW: 69.1 kDa

Gene Summary:

Functional component of the Nogo receptor signaling complex (RTN4R/NGFR) in RhoA activation responsible for some inhibition of axonal regeneration by myelin-associated factors (PubMed:14966521, PubMed:15694321). Is also an important negative regulator of oligodendrocyte differentiation and axonal myelination (PubMed:15895088). Acts in conjunction with RTN4 and RTN4R in regulating neuronal precursor cell motility during cortical development (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (8) contains alternate 5' exon structure and thus differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (b) is shorter at the N-terminus, compared to isoform a. Variants 2 through 12 all encode isoform b.