

Product datasheet for **SC111475**

LINGO1 (NM_032808) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LINGO1 (NM_032808) 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: >SC111475 representing NM_032808.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCAGGTGAGCAAGAGGATGCTGGCGGGGGCGTGAGGAGCATGCCAGCCCCCTCTGGCCTGCTGG
CAGCCCCATCCTCTGCTGGTGCTGGGCTCAGTGCTGTGAGCTCGGCCACGGGCTGCCCGCCCCGCTGC
GAGTGCTCCGCCAGGACCGCGCTGTGCTGTGCCACCGCAAGCGCTTTGTGGCAGTCCCCGAGGGCATC
CCCACCGAGACGCGCCTGCTGGACCTAGGCAAGAACCAGCATCAAAACGCTCAACCAGGACGAGTTGCC
AGCTTCCCGCACCTGGAGGAGCTGGAGCTCAACGAGAACATCGTGAGCGCCGTGGAGCCCGGCGCCTTC
AACAACTCTTCAACCTCCGGACGCTGGGTCTCCGACGCAACCGCCTGAAGCTCATCCCGTAGGCGTC
TTCCTGGCCTCAGCAACCTGACCAAGCTGGACATCAGCGAGAACAAGATCGTTATCCTACTGGACTAC
ATGTTTCAGGACCTGTACAACCTCAAGTCACTGGAGGTTGGCGACAATGACCTCGTCTACATCTCTCAC
CGCGCCTTCAGCGGCCTCAACAGCCTGGAGCAGCTGACGCTGGAGAAATGCAACCTGACCTCCATCCCC
ACCGAGGGCGTGTCCACCTGCACGGCCTCATCGTCTGAGGCTCCGGCACCTCAACATCAATGCCATC
CGGGACTACTCCTTCAAGAGGCTGTACCGACTCAAGGTCTTGGAGATCTCCCACTGGCCCTACTTGGAC
ACCATGACACCCAACCTGCCTCTACGGCCTCAACCTGACGTCCCTGTCCATCACACACTGCAATCTGACC
GCTGTGCCCTACCTGGCCGTCCGCCACCTAGTCTATCTCCGTTCTCTCAACCTCTCTACAACCCCATC
AGCACCATTGAGGGCTCCATGTTGCATGAGCTGCTCCGGTGCAGGAGATCCAGCTGGTGGGCGGGCAG
CTGGCCGTGGTGGAGCCCTATGCCTTCCGCGCCCTCAACTACCTGCGCGTGTCAATGTCTCTGGCAAC
CAGCTGACCACACTGGAGGAATCAGTCTTCCACTCGGTGGGAACCTGGAGACTCATCCTGGACTCC
AACCCGCTGGCCTGCGACTGTCGGCTCCTGTGGGTGTTCCGGCGCCGCTGGCGGCTCAACTCAACCGG
CAGCAGCCACAGTGCGCCACGCCGAGTTTGTCCAGGGCAAGGAGTTCAAGGACTTCCCTGATGTGCTA
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GAGGGCCACACGGTGCAGTTTGTGTGCCGGCCGATGGCGACCCGCCCGCCGATCCTCTGGCTCTCA
CCCCGAAAGCACCTGGTCTCAGCCAAGAGCAATGGGCGGCTCACAGTCTTCCCTGATGGCAGCTGGAG
GTGCGCTACGCCAGGTACAGGACAACGGCACGTACCTGTGCATCGCGCCAACGCGGGCGGCAACGAC
TCCATGCCCGCCACCTGCATGTGCGCAGCTACTCGCCGACTGGCCCCATCAGCCCAACAAGACCTTC
GCTTTCATCTCCAACAGCCGGGCGAGGGAGAGGCCAACAGCACCCGCGCCACTGTGCCTTCCCTTC
GACATCAAGACCCTCATCATGCCACCACCATGGGCTTCTCTTTCTGGGCGTGTCTCTTCTGCTGC
CTGGTGTCTGTTTCTCTGGAGCCGGGCAAGGGCAACACAAAGCACACATCGAGATCGAGTATGTG
CCCCGAAAGTCGACGCGGCGATCAGCTCCGCCGACGCGCCCGCAAGTCAACATGAAGATGATTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Chromatograms: https://cdn.origene.com/chromatograms/ja3326_g08.zip

Restriction Sites: SgfI-MluI

ACCN: NM_032808

Insert Size: 1863 bp

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 or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_032808.6](#)

RefSeq Size: 3109 bp

RefSeq ORF: 1863 bp

Locus ID: 84894

UniProt ID: [Q96FE5](#)

Cytogenetics: 15q24.3

Domains: LRRCT, LRR, ig, IGc2, IG

Protein Families: Druggable Genome, Transmembrane

MW: 69.9 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 (1) encodes the longer isoform (a).