

Product datasheet for **RG239101**

LINGO1 (NM_001301197) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LINGO1 (NM_001301197) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LINGO1
Synonyms:	LERN1; LRRN6A; MRT64; UNQ201
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239101 representing NM_001301197.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCTGGCGGGGGGGCTGAGGAGCATGCCAGCCCCCTCTGGCCTGCTGGCAGCCCATCCTCCTGCTG
GTGCTGGGCTCAGTGTCTCAGGCTCGGCCAGGGCTGCCCGCCCGCTGCGAGTGTCCGCCAGGAC
CGCGCTGTGCTGTGCCACCGCAAGCGCTTTGTGGCAGTCCCCGAGGGCATCCCCACCGAGACGCGCTG
CTGGACCTAGGCAAGAACCGCATCAAAACGCTCAACCAGGACGAGTTCGCCAGCTTCCCGCACCTGGAG
GAGCTGGAGCTCAACGAGAACATCGTGAGCGCCGTGGAGCCCGCGCCTTCAACAACCTCTTCAACCTC
CGGACGCTGGGTCTCCGACGCAACCGCTGAAGCTCATCCGCTAGGCGTCTTCACTGGCCTCAGCAAC
CTGACCAAGCTGGACATCAGCGAGAACAAGATCGTTATCCTACTGGACTACATGTTTCAGGACCTGTAC
AACCTCAAGTCACTGGAGTTGGCGACAATGACCTCGTCTACATCTCTCACCGCGCCTTCCAGCGCCTC
AACAGCCTGGAGCAGTACGCTGGAGAAATGCAACCTGACCTCCATCCCCACCGAGGCGCTGTCCAC
CTGCACGGCCTCATCGTCTGAGGCTCCGGCACCTCAACATCAATGCCATCCGGGACTACTCCTTCAAG
AGGCTGTACCGACTCAAGGTCTTGGAGATCTCCACTGGCCCTACTTGGACACCATGACACCCAACCTGC
CTCTACGGCCTCAACCTGACGTCCCTGTCCATCACACACTGCAATCTGACCGCTGTGCCCTACCTGGCC
GTCCGCCACCTAGTCTATCTCCGCTTCCCTAACCTCTCCTACAACCCCATCAGCACCATTGAGGGCTCC
ATGTTGCATGAGCTGCTCCGGCTGCAGGAGATCCAGCTGGTGGCGGGCAGCTGGCCGTGGTGGAGCCC
TATGCCTTCCGCGGCTCAACTACCTGCGCGTGTCAATGTCTCTGGCAACCAGCTGACCACACTGGAG
GAATCAGTCTTCCACTCGGTGGCAACCTGGAGACTCATCTGGACTCCAACCCGCTGGCCTGCGAC
TGTCCGCTCCTGTGGGTGTTCCGGCGCCGCTGGCGGCTCAACTTCAACCGGCAGCAGCCACGTCGCC
ACGCCCGAGTTTGTCCAGGGCAAGGAGTTCAAGGACTTCCCTGATGTGCTACTGCCAACTACTTCAAC
TGCCCGCGCGCCGCATCCGGGACCGCAAGGCCAGCAGGTGTTGTGGACGAGGGCCACACGGTGCAG
TTTGTGTGCCGGCCGATGGCGACCCGCGCCCGCCATCCTCTGGCTCTACCCCGAAAGACCTGGTC
TCAGCCAAGAGCAATGGGCGGCTCACAGTCTTCCCTGATGGCACGCTGGAGGTGCGCTACGCCCAGGTA
CAGGACAACGGCACGTACCTGTGCATCGCGGCAACGCGGGCGGCAACGACTCCATGCCCGCCACCTG
CATGTGCGCAGCTACTCGCCGACTGGCCCATCAGCCCAACAAGACCTTCGCTTTCATCTCAACCAG
CCGGGCGAGGGAGAGGCAACAGCACCCGCGCCACTGTGCCTTCCCTTCGACATCAAGACCCTCATC
ATCGCCACCACCTGGGTTTCATCTCTTCTGGGCGTGTCTCTTCTGCTGGTGTGCTGTTTCTC
TGGAGCCGGGCAAGGGCAACACAAGCACAACATCGAGATCGAGTATGTCCCCGAAAGTCGGACGCA
GGCATCAGCTCCGCCGACGCGCCCGCAAGTTC AACATGAAGATGATA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
  
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Protein Sequence:

>Peptide sequence encoded by RG239101
 Blue=ORF Red=Cloning site Green=Tag(s)

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MLAGVRSMPSPILLACWQPILLVLSVLSGSATGCPPRCECSAQDRAVLCHRKRFVAVPEGIPTETRL
LDLGKNRIKTLNQDEFASFPHLEELNENIVSAVEPGAFNLFNLRTLGLRSNRLKLIPLGVFTGLSN
LTKLDISENKIVILLDYMFQDLYNLKSLEVGDNDLVYISHRAFSGLNSLEQLTLEKCNLTSIPTEALSH
LHGLIVLRLRHLNINAIRDYSFKRLYRLKVLKLEISHWPYLDTMTNCLYGLNLTSLSITHCNLTAVPYLA
VRHLVYLRFLNLSYNPISTIEGSMHELLRLQEIQLVGGQLAVVEPYAFRGLNYLRVLNVSGNQLTTLE
ESVFHSGVGNLETLILDSNPLACDCRLLWVFRWRWLNFRNQPTCATPEFVQGKEFKDFPDVLLPNYFT
CRRARIRDRKAQQVFVDEGHTVQFVCRADGDPPAILWLSPRKHLVSAKSNRGLTVFPDGTLEVRYAQQV
QDNGTYLCIAANAGGNSMPAHLHVRSYSPDWPHPNKTFAFISNQPGEGEANSTRATVPFPFDIKTLI
IATTMGFIISFLGVFLFCLVLLFLWSRGKNTKHNIEIEYVPRKSDAGISSADAPRKFNMKMI
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIIRSNATVEHLHPMGDNDLDGFSFTRTFLSRDGGYSSVVDSDSHMHFKAIIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
```

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001301197

ORF Size: 1842 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

RefSeq: [NM_001301197.1](#), [NP_001288126.1](#)

RefSeq Size: 3294 bp

RefSeq ORF: 1845 bp

Locus ID: 84894

UniProt ID: [Q96FE5](#)

Cytogenetics: 15q24.3

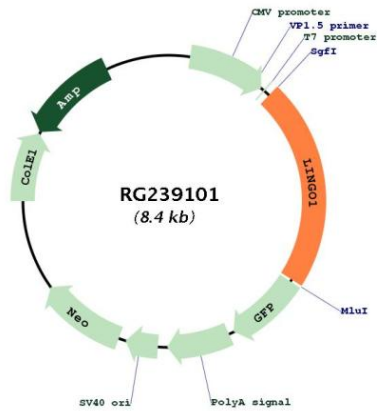
Protein Families: Druggable Genome, Transmembrane

MW: 69.6 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 oligodentocyte 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]

Product images:



Circular map for RG239101