

## Product datasheet for **RG203867**

### LINGO1 (NM\_032808) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LINGO1 (NM_032808) 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:**

>RG203867 representing NM\_032808  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGGTGAGCAAGAGGATGCTGGCGGGGGCGTGAGGAGCATGCCAGCCCCCTCTGGCCTGCTGGC  
 AGCCCATCCTCCTGCTGGTGTGGGCTCAGTGCTGTGAGGCTCGGCCACGGGCTGCCCGCCCGCTGCGA  
 GTGCTCCGCCCAGGACCGCGCTGTGCTGTGCCACCGCAAGCGCTTTGTGGCAGTCCCGAGGGCATCCCC  
 ACCGAGACCGCCTGCTGGACCTAGGCAAGAACCAGCATAAAACGCTCAACCAGGACGAGTTCGCCAGCT  
 TCCCGCACCTGGAGGAGCTGGAGCTCAACGAGAACATCGTGAGCGCCGTGGAGCCCGGCCCTTCAACAA  
 CCTCTTCAACCTCCGACGCTGGGTCTCCGACGCAACCGCTGAAGCTCATCCCGCTAGGCGTCTTCACT  
 GGCCTCAGCAACCTGACCAAGCTGGACATCAGCGAGAACAAGATCGTTATCCTACTGGACTACATGTTTC  
 AGGACCTGTACAACCTCAAGTCACTGGAGTTGGCGACAATGACCTCGTCTACATCTCACCGCGCCTT  
 CAGCGGCCTCAACAGCCTGGAGCAGCTGACGCTGGAGAAATGCAACCTGACCTCCATCCCCACCGAGGCG  
 CTGTCCCACCTGCACGGCCTCATCGTCTGAGGCTCCGGCACCTCAACATCAATGCCATCCGGGACTACT  
 CTTTCAAGAGGCTGTACCGACTCAAGGCTTTGGAGATCTCCCACTGGCCCTACTTGGACACCATGACACC  
 CAACTGCCTCTACGGCCTCAACCTGACGTCCCTGTCCATCACACACTGCAATCTGACCGCTGTGCCCTAC  
 CTGGCCGTCCGCCACCTAGTCTATCTCCGCTTCTCAACCTCTCTCAACCCCATCAGCACCATTGAGG  
 GCTCCATGTTGCATGAGCTGCTCCGGCTGCAGGAGATCCAGCTGGTGGCGGGCAGCTGGCCGTGGTGG  
 GCCCATAGCCTCCGCGGCCTCAACTACCTGCGCGTGTCAATGTCTCTGGCAACCAGCTGACCACACTG  
 GAGGAATCAGTCTTCACTCGGTGGGCAACCTGGAGACTCATCTGGACTCCAACCCGCTGGCCTGCC  
 ACTGTCCGCTCCTGTGGGTGTTCCGCGCCGCTGGCGGCTCAACTCAACCGGCAGCAGCCACGTGCCG  
 CACGCCCGAGTTTGTCCAGGGCAAGGAGTTCAAGGACTTCCCTGATGTGCTACTGCCAACAATACTTACC  
 TGCCGCCGCGCCGCATCCGGGACCGCAAGGCCAGCAGGTGTTTGTGGACGAGGGCCACACGGTGCAGT  
 TTGTGTGCCGGCCGATGGCGACCCGCCCGCCCATCCTCTGGCTCTCACCCCGAAAGCACCTGGTCTC  
 AGCCAAGAGCAATGGCGGGCTCACAGTCTTCCCTGATGGCAGCTGGAGGTGCGCTACGCCCAGGTACAG  
 GACAACGGCACGTACCTGTGCATCGCGGCAACGCGGGCGGCAACGACTCCATGCCCGCCACCTGCATG  
 TGCGCAGTACTCGCCGACTGGCCCATCAGCCCAACAAGACCTTCGCTTTCATCTCCAACCAGCCGGG  
 CGAGGGAGAGGCCAACAGCACCCGCGCCACTGTGCCTTCCCTTCGACATCAAGACCCTCATCATGCC  
 ACCACCATGGGCTTCATCTTTTCTGGCGTCTGCTCTTCTGCCTGGTGTGCTGTTTCTCTGGAGCC  
 GGGCAAGGGCAACACAAGCACAAATCGAGATCGAGTATGTGCCCGAAAGTCGGACGACGGCATCAG  
 CTCGCCGACGCGCCCGCAAGTTCAACATGAAGATGATA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG203867 representing NM\_032808  
 Red=Cloning site Green=Tags(s)

MQVSKRMLAGGVRSMPSLLACWQPILLVLSVLSGSATGCPPRCECSAQDRAVLCHRKRFAVPEGIP  
 TETRLDLGKNRIKTLNQDEFASFPHLEELNENIVSAVEPGAFNNLNLRLTLGLRSNRLKLIPLGVFT  
 GLSNLTKLDISENKIVILLDYMFDLYNLKSLEVDNDLVYISHRAFSGLNSLEQLTLEKCNLTSIPTEA  
 LSHLHGLIVLRLRHLNINAIIRDYSFKRLYRLKVLKISHWPYLDTMTPNCLYGLNL TSLSITHCNLTAVPY  
 LAVRHLVYLRFLNLSYNPISITIEGSMHELLRLQEIQLVGGQLAVVEPYAFRGLNLRVNLVSGNQLTTL  
 EESVVFHVSIGNLETLILDSNPLACDCRLLWVFRWRWLNFRNQPTCATPEFVQKFKDFPDVLLPNYFT  
 CRRARIRDRKAQQVFVDEGHTVQFVCRADGPPPAIWLSPRKHLVSAKSNGRLTVFPDGTLEVRYAQVQ  
 DNGTYLCAANAGNDSMPAHLHVRSYSPDWPHPNKTFAFISNQPGEGEANSTRATVPFPFDIKTLIIA  
 TTMGFIISFLGVVLFCLVLLFLWSRGKGNTHNIEIEYVPRKSDAGISSADAPRKFNMKMI

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_032808

**ORF Size:** 1860 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).

**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\\_032808.7](#)

**RefSeq Size:** 2932 bp

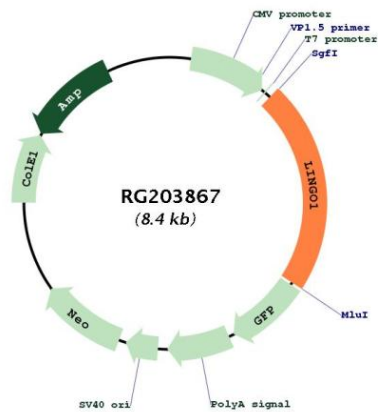
**RefSeq ORF:** 1863 bp

**Locus ID:** 84894

**UniProt ID:** [Q96FE5](#)

**Cytogenetics:** 15q24.3  
**Domains:** LRRCT, LRR, ig, IGc2, IG  
**Protein Families:** Druggable Genome, Transmembrane  
**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 RG203867