

Product datasheet for **MG209426**

Lingo1 (NM_181074) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lingo1 (NM_181074) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lingo1
Synonyms:	4930471K13Rik; AV148400; LERN1; LINGO-1; Lrrn6a; UNQ201
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209426 representing NM_181074
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGGCAGGGGTATGAGAAGCATGCCAGCCCCCTCTGGCCTGCTGGCAGCCATCCTCTGTCTGG
 TACTGGGCTCAGTGTGTCAAGCTCTGCTACAGGCTGCCCGCCCGCTGCGAGTGTCTCAGCGCAGGACCG
 AGCCGTGCTCTGCCACCCGAAACGCTTTGTGGCGGTGCCGAGGGCATCCCCACCGAGACTCGCCTGCTG
 GACCTGGGCAAAAACCGCATCAAGACACTCAACCAGGACGAGTTTGCCAGCTTCCCACACCTGGAGGAGC
 TAGAACTCAATGAAAACATCGTGAGCGCGTGGAGCCAGGCGCCTTCAACAACCTCTTCAACCTGAGGAC
 TCTGGGGTGGCAGCAACCGCTGAAGCTTATCCCGTGGGCGTCTTACCAGGCTCAGCAACTTGACC
 AAGCTGGACATCAGTGAACAAGATCGTCATCCTGCTAGACTACATGTTCCAAGACCTATAACAACCTCA
 AGTCGCTGGAGGTCGGCGACAACGACCTCGTCTACATCTCCCATCGAGCCTTTCAGCGGCCTAACAGCCT
 GGAACAGCTGACGCTGGAGAAATGCAATCTGACCTCCATCCCCAGGAGGCGCTCTCCACCTGCACGGC
 CTATCGTCTGCGGCTACGACATCTCAACATCAATGCCATCAGGGACTACTCCTCAAGAGGCTGTACC
 GACTTAAGGTCTTAGAGATCTCCCACTGGCCCTACCTGGACACCATGACCCCAACTGCCTCTACGGCCT
 CAACCTGACATCCCTATCCATCACGCACTGCAACCTGACAGCCGTGCCCTATCTGGCAGTGGCTACCTG
 GTCTATCTCCGTTTCTCAACCTTTCTACAACCAATCGGTACAATCGAGGGCTCCATGCTGCATGAGC
 TGCTGCGGTTGCAGGAGATCCAGCTGGTGGGCGGGCAGCTGGCCGTGGTGGAGCCCTATGCCTTTCGTGG
 GCTCAACTACCTGCGTGTCTCAATGTCTCTGGCAACCAGCTGACCACCTGGAGGAGTCAAGCCTCCAT
 TCGGTGGCAACCTGGAGAGCTCATCTGGACTCCAACCCACTGGCCTGTGACTGCCGCTGCTGTGGG
 TGTTCGGCGCCGCTGGCGGCTCAACTTCAACAGGACGAGCCCACTGCCACACCTGAGTTTCGTCCA
 GGGCAAAGAGTTCAAGGACTTTCGGGATGTACTCTACCAACTACTTACCTGCCGCGGGCCACATC
 CGGGACCGCAAGGCACAGCAGGTGTTTGTAGATGAGGGCCACACGGTGCAGTTTGTATGCCGGGAGATG
 GCGACCTCCACCAGCTATCCTTTGGCTCTACCCCGCAAGCACTTGGTCTCGGCCAAGAGCAATGGGCG
 GCTCACAGTCTTCCCTGATGGCAGCTGGAGGTGCGCTACGCCAGGTACAGGACAACGGCACGTACCTG
 TGCATCGCAGCCAATGCTGGCGGCAACGACTCCATGCCCGCCACTTGCATGTGCGCAGCTACTCGCCTG
 ACTGGCCCATCAACCAACAAGACCTTCGCTTCACTCCAACCAGCCAGGCGAGGAGAGGCCAACAG
 CACCCGCGCCACTGTGCCTTTCCCTTCGACATCAAGACGCTCATTATGCCACCACCATGGCTTCATC
 TCCTTCTGGGCTTGTCTATTCTGCCTGGTGTCTGTTTCTATGGAGCCGGGCAAAGCAACACAA
 AGCACAACATCGAAATTGAGTATGTGCCCGGAAATCGGACGCAGGCATCAGCTCAGCTGATGCACCCCG
 CAAGTTCAACATGAAGATGATA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209426 representing NM_181074
 Red=Cloning site Green=Tags(s)

MLAGGMRSMPSPLLACWQPILLVLSVLSGSATGCPPRCECSAQDRAVLCHRKRFVAVPEGIPTETRL
 DLGKNRIKTLNQDEFASFPHLEELNENIVSAVEPGAFNLFNLRTLGLRSNRLKLIPLGVFTGLSNLT
 KLDISENKIVILLDYMFDLYNLKSLEVDNDLVYISHRAFSGLSLEQLTLEKCNLTSIPTEALSHLHG
 LIVLRRLHNLNINAIIRDYSFKRLYRLKVLEISHWPYLDTMTNCLYGLNLTSLITHCNLTAVPYLAVRHL
 VYLRFLNLSYNPIGTIEGSMLHELLRLQEIQLVGGQLAVVEPYAFRGLNYLRVLNVSGNQLTTLEESAFH
 SVGNLETLILDSNPLACDCRLLWVFRWRWLNFRNQPTCATPEFVQGEFKDFPDVLLPNYFTCRRRAHI
 RDRKAQQVFVDEGHTVQFVCRADGPPPAIWLSPRKHLVSAKSNGLTVFPDGTLEVRYAQVQDNGTYL
 CIAANAGGNDSPAHLHVRSYSPDWPHPNKTFAFISNQPGEGEANSTRATVPFPFDIKTLIIATTMGFI
 SFLGVVLFCLVLLFLWSRKGNTKHNIEIEYVPRKSDAGISSADAPRKFNMKMI

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_181074

ORF Size: 1842 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](#)

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:

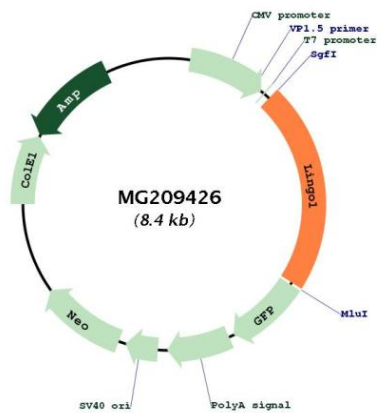
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_181074.5](#)

RefSeq Size: 3321 bp
 RefSeq ORF: 1845 bp
 Locus ID: 235402
 UniProt ID: [Q9D1T0](#)
 Cytogenetics: 9 B

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. Is also an important negative regulator of oligodentocyte differentiation and axonal myelination (By similarity). Acts in conjunction with RTN4 and RTN4R in regulating neuronal precursor cell motility during cortical development.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG209426