

Product datasheet for MC201945

Lynx1 (NM_011838) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lynx1 (NM_011838) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Lynx1
Synonyms:	A1838844; SLURP-2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC037541 sequence for NM_011838
 CCACGCGTCCGCCACGCGTCCGCCACGCGTCCGCCACGCGTCCGCCCTACTTGGCCTGCCTGCGATG
 CGGTACCAACACCGCACGAAGTGTGTACAGATCCCAGTTAGACAGCAGGAGGGACTGGGAGCGGCCAG
 GGGGATGTTTTATCTCTAAGAGACCAAGAGCTCAGGCAGGGCTTCTGTGCCCTGCTTCTCCCTGGCTTG
 AGCTGGATCCTGGACCAGCTGCTGACCTCTGTTCACTCTGGCACTGCCCTCACGCTCCGTCATGACCC
 ATCTGCTCACAGTGTTCCTGGTGGCCCTGATGGCCCTGCCTGTGGCCAGGCTCTGGAGTGCCACGTGTG
 TGCCTACAATGGAGACAAGTCTCAAACCCATGCGCTGCCAGCCATGGCCACCTACTGTATGACCACA
 CGAACTTACTTACCCCATACCGGATGAAGGTGAGGAAGTCTGTGTCCCAGCTGCTTTGAAACCGTGT
 ACGATGGCTATTCCAAGCATGCATCTGCCACCTCCTGTTGCCAGTACTACCTCTGCAACGGTGTGGCTT
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 GCCTTACCATGCTCTCTAACTAGTACCTCAACTACATGTCACTGAGGAACCCCTAACACTGGCCAGC
 CCAGGGTGGGATGCTGCCAATGTCCATGGAGTGGGACTACCCATGGAGAGTCTTGGTTCATCAT



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CACAAATGTTTTATTCCAATCTCCCAGTGGTGAGAGCTCGGGACACAAAGTCCATCCTGGGGACCTTCT
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TCTGCAACCCAGGCTCTCACCAGCAAGGAAATGAAATCCACTTTTATGACACATCTCCCTCCCCAG
CCAGCTCCATTACCTATATGCCAGGGTGGTCCCTTTCAATGTCTGTCCCCATTGGATGAATAAACAAG
CGAAGGACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
    
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- Restriction Sites:** RsrII-NotI
- ACCN:** NM_011838
- Insert Size:** 351 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:	<ol style="list-style-type: none">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:	<u>BC037541</u> , <u>AAH37541</u>
RefSeq Size:	4028 bp
RefSeq ORF:	351 bp
Locus ID:	23936
UniProt ID:	<u>P0DP60</u>
Cytogenetics:	15 D3
Gene Summary:	<p>Acts in different tissues through interaction to nicotinic acetylcholine receptors (nAChRs) (PubMed:10402197). The proposed role as modulator of nAChR activity seems to be dependent on the nAChR subtype and stoichiometry, and to involve an effect on nAChR trafficking and its cell surface expression, and on single channel properties of the nAChR inserted in the plasma membrane. Modulates functional properties of nicotinic acetylcholine receptors (nAChRs) to prevent excessive excitation, and hence neurodegeneration. Enhances desensitization by increasing both the rate and extent of desensitization of alpha-4:beta-2-containing nAChRs and slowing recovery from desensitization. Promotes large amplitude ACh-evoked currents through alpha-4:beta-2 nAChRs (PubMed:10402197, PubMed:11906696). Is involved in regulation of the nAChR pentameric assembly in the endoplasmic reticulum. Shifts stoichiometry from high sensitivity alpha-4(2):beta-2(3) to low sensitivity alpha-4(3):beta-2(2) nAChR (PubMed:25193667). In vitro modulates alpha-3:beta-4-containing nAChRs. Reduces cell surface expression of (alpha-3:beta-4)(2):beta-4 and (alpha-3:beta-4)(2):alpha-5 nAChRs suggesting an interaction with nAChR alpha-3(-):(+):beta-4 subunit interfaces and an allosteric mode. Corresponding single channel effects characterized by decreased unitary conductance, altered burst proportions and enhanced desensitization/inactivation seem to depend on nAChR alpha:alpha subunit interfaces and are greater in (alpha-3:beta-2)(2):alpha-3 when compared to (alpha-3:beta-2)(2):alpha-5 nAChRs (By similarity). Prevents plasticity in the primary visual cortex late in life (PubMed:21071629). [UniProtKB/Swiss-Prot Function]</p>