

Product datasheet for **MC218950**

Neurl1a (NM_001163480) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neurl1a (NM_001163480) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Neurl1a
Synonyms:	2410129E16Rik; AI450910; AI481072; Neu1; Neur1; Neurl; Neurl1; Nlz; Rnf67
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC218950 representing NM_001163480
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGGGACAGATCACAAAGGAACACTATCCACGACTCCATCGGGGGCTCCTTCCCGGTGCCTCTCACC
 GATGCCATCACAAAGCAGAAGCATTGCCCGCTACGCTGTAGGTGGGGGGCTCCCGGCCACGCCGCTGCT
 CTTCCATCCCCACACTAAGGGCTCCAGATCCTCATGGACCTCAGCCACAAGGCCGTCAGAGGCAGGCC
 AGCTTTTGCAATGCCATCACCTTCAGTAACCGCCCGGTGCTCATCTACGAGCAAGTCAGGCTGAAGATCA
 CCAAGAAGCAATGCTGCTGGAGCGGGCCCTGCGACTTGGCTTACCAGCAAGGACCCCTCCCGCATCCA
 CCCCAGCTCGTGCCTAAGTACGCTGCCCTGACCTGGTGTCTCAGAGTGGCTTCTGGGCCAAAGCATTG
 CCTGAGGAGTTTGCCAACGAGGGCAACATCATTGCCTTCTGGGTGGACAAGAAGGGCCGCGTCTTCTACC
 GGATCAATGAGTCAGCTGCTATGCTTTTCTTCAGTGGGGTCCGGACGGTGGACCCGCTCTGGGCCCTGGT
 GGACGCTACGGCCTCACGCGGGGTGTCCAGCTGCTAGACAGCGAGCTGGTGTGCCGACTGCCTGCGG
 CCGCGCTCCTTACCGCGCTGCGGCGGCCGCTGCTGCGGTGCGAGGCGGATGAGGCGCGCCTGTCGGTGA
 GCCTGTGCGACCTCAACGTGCCGGGAGCCGACGGCGACGACGGCCACCCGCTGCCGGTGCCTGATCCC
 GCAGAACTCGCTCAATTCTCAGCACAGCCGCGCTGCCGGCGCAGCTCGACGGCGACCTGCGCTTCCAC
 GCGCTTCGCGCCGGCGCGCACGTCCGCATCCTGGACGAGCAGACGGTGGCGCGCTGGAGCACGGGCGCG
 ACGAGCGCGCGCTCGTCTTACCAGCCGGCCTGTGCGCGTGGCCGAGACCATCTTTCATCAAGGTACGCG
 CTCGGGCGGGGGCGAGCGGGCGCGTGTCTTCCGGGTACCACGTGTGACCTGGCACGCTGCGGCC
 GCCGACTGCCCTTACGCCCCGAGGCCCTGGTGGACCCGCAAGGAGTTCTGGGCGGTGTGTCGCGTGCCTG
 GGCTCTGCACAGCGGCGACATCCTGGCCTGGTGGTCAACCGGACGGAGAGCTGCACCTGAGTCACAA
 CGGCGCGGGCGCCGATGCAGCTGTGCGTGGATGCCTCGCAGCCCTCTGGATGCTCTTACGCTGCT
 GCGCCATCACGAGGTCCGCATCCTCGCTCCACCATCATGACTGAACGGGGTGGCCATCTCTCCCT
 GCTCACCTGCCTCACTCCAACCTCACCCAGTGCCTGGGCATCCGCTCTCTGACCCCTGCTCAGCAC
 CTGCGGTTCTGGGCCCTAGGTGGCTCTGCTGGAGGGACGCCCAACTCACCTGTGAGCCTGCCCGAG
 TCACCGGTGACCCAGGTCTGGCCAGTGGAGTGAATGCACCATTTGCTATGAACACGAGTGGACA
 CAGTCACTACAGTGTGGCCACATGTGCTGTGCTACTCTGTGGCCTGCGCTCAAGAAGGCCCTGCA
 CGCTGCTGCCCATCTGCCGTGCCCCATCAAGGACATCATCAAGACCTACCGAGCTC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001163480
- Insert Size:** 1674 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:

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_001163480.1](#), [NP_001156952.1](#)

RefSeq Size: 3690 bp

RefSeq ORF: 1674 bp

Locus ID: 18011

UniProt ID: [Q923S6](#)

Cytogenetics: 19 39.39 cM

Gene Summary: Plays a role in hippocampal-dependent synaptic plasticity, learning and memory. Involved in the formation of spines and functional synaptic contacts by modulating the translational activity of the cytoplasmic polyadenylation element-binding protein CPEB3. Promotes ubiquitination of CPEB3, and hence induces CPEB3-dependent mRNA translation activation of glutamate receptor GRIA1 and GRIA2. Can function as an E3 ubiquitin-protein ligase to activate monoubiquitination of JAG1 (in vitro), thereby regulating the Notch pathway. Acts as a tumor suppressor; inhibits malignant cell transformation of medulloblastoma (MB) cells by inhibiting the Notch signaling pathway.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.