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Product datasheet for MC219170

Neurl1a (NM_021360) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neurl1a (NM_021360) 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:

>MC219170 representing NM_021360
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGTAACAACTTCTCCAGTGTCTCCTCTCTGCAGCGAGGAAACCCGAGCCGCGCGTCGCGGGGCCACC
CCCAGAACCTCAAAGACTCCATCGGGGGCTCCTTCCCGGTGCCCTCTCACCGATGCCATCACAAGCAGAA
GCATTGCCCGCCTACGCTGTCAGGTGGGGGGCTCCCGGCCACGCCGCTGCTCTTCCATCCCCACACTAAG
GGCTCCCAGATCCTCATGGACCTCAGCCACAAGGCCGTCAAGAGGCAGGCCAGCTTTTGCAATGCCATCA
CCTTCAGTAACCGCCCGGTGCTCATCTACGAGCAAGTCAGGCTGAAGATCACCAAGAAGCAATGCTGCTG
GAGCGGGGCCCTGCGACTTGGCTTCACCAGCAAGGACCCTTCCCGCATCCACCCCGACTCGCTGCCCAAG
TACGCCTGCCCTGACCTGGTGTCTCAGAGTGGCTTCTGGGCCAAAGCATTGCCTGAGGAGTTTGCCAACG
AGGGCAACATCATTGCCTTCTGGGTGGACAAGAAGGGCCGCGTCTTCTACCGGATCAATGAGTCAGCTGC
TATGCTTTTCTTCAGTGGGGTCCGGACGGTGGACCCGCTCTGGGCCCTGGTGGACGTCTACGGCCTCACG
CGGGGTGTCCAGCTGCTAGACAGCGAGCTGGTGCTGCCCGACTGCCTGCGGCCGCGCTCCTTCACCGCGC
TGCGGCGGCCGTCGCTGCGGTGCGAGGCGGATGAGGCGCGCCTGTCGGTGAGCCTGTGCGACCTCAACGT
GCCGGGAGCCGACGGCGACGACGGCGCACCGCCTGCCGGCTGCCCGATCCCGCAGAACTCGCTCAATTCT
CAGCACAGCCGCGCGCTGCCGGCGCAGCTCGACGGCGACCTGCGCTTCCACGCGCTTCGCGCCGGCGCGC
ACGTCCGCATCCTGGACGAGCAGACGGTGGCGCGCCTGGAGCACGGGCGCGACGAGCGCGCGCTCGTCTT
CACCAGCCGGCCTGTGCGCGTGGCCGAGACCATCTTCATCAAGGTCACGCGCTCGGGCGGGGGGCGAGCG
GGCGCGCTGTCCTTCGGGGTCACCACGTGTGACCCTGGCACGCTGCGGCCCGCCGACCTGCCCTTCAGCC
CCGAGGCCCTGGTGGACCGCAAGGAGTTCTGGGCGGTGTGTCGCGTGCCCGGGCCTCTGCACAGCGGCGA
CATCCTGGGCCTGGTGGTCAACGCGGACGGAGAGCTGCACCTGAGTCACAACGGCGCGGCGGCCGGCATG
CAGCTGTGCGTGGATGCCTCGCAGCCCCTCTGGATGCTCTTCAGCCTGCATGGCGCCATCACGCAGGTCC
GCATCCTCGGCTCCACCATCATGACTGAACGGGGTGGCCCATCTCTCCCCTGCTCACCTGCCTCCACTCC
AACCTCACCCAGTGCCCTGGGCATCCGCCTCTCTGACCCCCTGCTCAGCACCTGCGGTTCTGGGCCCCTA
GGTGGCTCTGCTGGAGGGACAGCCCCCAACTCACCTGTGAGCCTGCCCGAGTCACCGGTGACCCCAGGTC
TGGGCCAGTGGAGTGATGAATGCACCATTTGCTATGAACACGCAGTGGACACAGTCATCTACACGTGTGG
CCACATGTGCCTGTGCTACTCCTGTGGCCTGCGCCTCAAGAAGGCCCTGCACGCCTGCTGCCCCATCTGC
CGTCGCCCCATCAAGGACATCATCAAGACCTACCGCAGCTCCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_021360

Insert Size: 1725 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_021360.4, NP_067335.4
RefSeq Size:	4168 bp
RefSeq ORF:	1725 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 (1) represents the longer transcript and encodes the longer isoform (1).