

Product datasheet for **MR217666**

Neurl1a (NM_001163480) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR217666 representing NM_001163480
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGGGACAGATCACAAGGAACACTATCCACGACTCCATCGGGGGCTCCTTCCCGGTGCCTCTCACC
 GATGCCATCACAAGCAGAAGCATTGCCCGCTACGCTGTACGGTGGGGGGCTCCCGGCCACGCCGCTGCT
 CTTCCATCCCCACACTAAGGGCTCCAGATCCTCATGGACCTCAGCCACAAGGCCGTCAGAGGCAGGCC
 AGCTTTTGCAATGCCATCACCTCAGTAACCGCCCGGTGCTCATCTACGAGCAAGTCAGGCTGAAGATCA
 CCAAGAAGCAATGCTGCTGGAGCGGGCCCTGCGACTTGGCTTACCAGCAAGGACCTTCCCGCATCCA
 CCCCAGCTCGTGCCTAAGTACGCTGCCCTGACCTGGTGTCTCAGAGTGGCTTCTGGGCCAAAGCATTG
 CCTGAGGAGTTTGCCAACGAGGGCAACATCATTGCCTTCTGGGTGGACAAGAAGGGCCGCTTCTTACC
 GGATCAATGAGTCAGCTGCTATGCTTTTCTTTCAGTGGGGTCCGGACGGTGGACCCGCTCTGGGCCCTGGT
 GGACGCTACGGCCTCACGCGGGGTGTCCAGCTGCTAGACAGCGAGCTGGTGTGCCGACTGCCTGCGG
 CCGCGCTCCTTACCCGCGCTGCGGCGGCCGCTGCTGCGGTGCGAGGCGGATGAGGCGCGCCTGTCGGTGA
 GCCTGTGCGACCTCAACGTGCCGGGAGCCGACGGCGACGACGGCCACCCGCTGCCGGTGCCCGATCCC
 GCAGAACTCGCTCAATTCTCAGCACAGCCGCGCCTGCCGGCGCAGCTCGACGGCGACCTGCGCTTCCAC
 GCGCTTCCGCGCCGGCGCGACGTCGCCATCCTGGACGAGCAGACGGTGGCGCGCCTGGAGCACGGGCGCG
 ACGAGCGCGCGCTCGTCTTACCAGCCGGCCTGTGCGCGTGGCCGAGACCATCTTTCATCAAGGTACGCG
 CTCGGGCGGGGGCGAGCGGGCGCGCTGTCTTCCGGGTCAACACGTGTGACCTGGCACGCTGCGGCC
 GCCGACTGCCCTTACGCCCCGAGGCCCTGGTGGACCCCAAGGAGTTCTGGGCGGTGTGTGCGGTGCCG
 GGCTCTGCACACGCGCGACATCCTGGCCTGGTGGTCAACGCGGACGAGAGCTGCACCTGAGTCACAA
 CGGCGCGGGCGCCGATGCAGCTGTGCGTGGATGCCTCGCAGCCCTCTGGATGCTCTTACGCTGCAT
 GCGCCATCACGAGGTCGCGATCCTCGCTCCACCATCATGACTGAACGGGGTGGCCATCTCTCCCT
 GCTCACCTGCCTCACTCCAACCTCACCCAGTGCCTGGGCATCCGCTCTCTGACCCCTGCTCAGCAC
 CTGCGGTTCTGGGCCCTAGGTGGCTCTGCTGGAGGGACGCCCCAACTCACCTGTGAGCTGCCCGAG
 TCACCGGTGACCCAGGCTGGGCCAGTGGAGTGAATGCACCATTTGCTATGAACACGAGTGGACA
 CAGTCACTACAGTGTGGCCACATGTGCTGTGCTACTCTGTGGCCTGCGCCTCAAGAAGGCCCTGCA
 CGCTGCTGCCCATCTGCGCTGCCCCATCAAGGACATCATCAAGACCTACCGCAGCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR217666 representing NM_001163480
 Red=Cloning site Green=Tags(s)

MGGQITRNTIHDSIGGSFPVPSHRCHHKQKHCPPTLSGGGLPATPLL FHPHTKGSQILMDLSHKAVKRQA
 SFCNAITFSNRPVLIYEQVRLKIKKQCCWSGALRLGFTSKDPSRIHPDSLPHYACPDLSQSGFWAKAL
 PEEFANEENIIAFWVDKGRVYRINESAAMLFSGVRTVDPLWALVDVYGLTRGVQLLDELVLDPCLR
 PRSFTALRRPSLRCEADEARLSVSLCDLNVPGADGDDGAPPAGCPIPQNSLNSQHSRALPAQLDGLRFH
 ALRAGAHVRIILDEQTVARLEHGRDERALVFTSRPVRVAETIFIKVTRSGGGRAGALSFGVTTCDPGTLRP
 ADL PFSPEALVDRKEFWAVCRVPGPLHSGDILGLVFNADGELHL SHNGAAAGMQLCVDASQPLWMLFSLH
 GAITQVRILGSTIMTERGGPSLPCSPASTPTSPSALGIRLSDPLLSTCGSGPLGGSAGGTAPNSPVSLPE
 SPVTPGLGQWSDECTICYEHAVDTVIYTCGHMCLCYSCGLRLKALHACCPICRRPIKDIKTYRSS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001163480

ORF Size: 1671 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_001163480.1](#), [NP_001156952.1](#)

RefSeq Size: 3690 bp

RefSeq ORF: 1674 bp

Locus ID: 18011

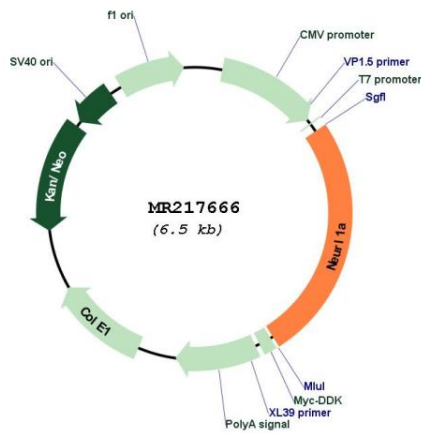
UniProt ID: [Q923S6](#)

Cytogenetics: 19 39.39 cM

MW: 60.4 kDa

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]

Product images:



Circular map for MR217666