

Product datasheet for **RG205357**

NEURL (NEURL1) (NM_004210) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEURL (NEURL1) (NM_004210) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NEURL
Synonyms:	bA416N2.1; neu; neu-1; NEUR1; NEURL; RNF67
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205357 representing NM_004210
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTAACAACCTCTCCAGTATCCCCTCGCTGCCCCGAGGAAACCCGAGCCGCGCGCGGGGCCACC
 CCCAGAACCTCAAAGACTCTATCGGGGGCCCCCTTCCCCGTCATTCTCACCGATGCCACCACAAGCAGAA
 GCACTGTCCGGCAGTGCTGCCACGCGGGGGCTCCAGCCACGCCGCTGCTCTTCCACCCGCACACCAAG
 GGCTCCCAGATCCTCATGGACCTCAGCCACAAGGCTGTCAAGAGGCAGGCCAGCTTCTGCAACGCCATCA
 CCTTCAGCAACCGCCCGTCTCATCTACGAGCAAGTCAGGCTGAAGATCACCAAGAAGCAGTGCTGCTG
 GAGCGGGGCCCTGCGGCTGGGCTTACCAGCAAGGACCCGTCGCCATCCACCCTGACTCGCTGCCCAAG
 TACGCTGCCCGACCTGGTGTCCAGAGTGGCTTCTGGGCCAAGGCGCTGCCTGAGGAGTTTGCAATG
 AGGGCAACATCATCGATTCTGGGTGGACAAGAAGGGCCGTGTCTTCCACCGCATCAACGACTCGGCTGT
 TATGCTGTTCTTACGCGGGTCCGACGCGCCGACCCGCTCTGGGCCCTGGTGGAGCTCTACGGCCTCAG
 CGGGGCGTCCAGCTGCTTATAGCGAGCTGGTGTCCCGGACTGTCTGCGGCCGCGCTCCTTACCAGCCC
 TGGCGCGCCGCTCGCTGCGGCGCGAGGCGGACGACGCGCGCTCTCGGTGAGCCTATGCGACCTCAACGT
 GCCGGGCGCGGACGGCGACGAGGCCGCGCCGCGCGGCTGCCCATCCCGCAGAACTCACTCAACTCG
 CAGCACAGCCGCGCGCTGCCGCGCAGCTCGACGGCGACCTGCGTTTCCACGCCCTGCGCGCCGCGCGC
 ACGTCCGCATCCTCGACGAGCAGACGGTGGCGCGCTGGAGCACGGGCGCGACGAGCGCGCGCTCGTCTT
 CACCAGCCGGCCCGTGGCGTGGCCGAGACCATCTTCTCAAGGTCACGCGCTCGGTGGCGCGCGGCC
 GGCGCGCTGTGTTTGGCGTACCACGTGCGACCCGCGACGCTGCGGCCGCGCGACCTGCCTTTACGCC
 CTGAGGCCCTGGTGACCGCAAGGAATTCTGGGCCGTGTCCGCGTGGCGGGCCCTGCACAGCGGCGA
 CATCCTGGGCGCTGGTGGTCAACGCCGACGCGAGCTGCACCTCAGCCACAATGGCGCGGCCGCGCGCATG
 CAGCTGTGCGTGGACGCTCGCAGCCGCTTGGATGCTCTTGGCCTGCACGGGACCATCACGAGATCC
 GCATCCTCGGCTCCACTATCCTGGCCGAGCGGGTATCCCATCACTCCCCTGCTCCCCTGCCTCCACGCC
 AACCTCGCCAGTGCCCTGGGACGCCGCTGTCTGACCCCTGCTCAGCACGTGCAGCTCTGGCCCTCTG
 GGTAGCTCTGCTGGTGGGACAGCCCCAATTGCGCAGTGAGCCTGCCGAGTGGCAGTGACCCAGGTC
 TGGGCCAGTGGAGCGATGAGTGACCATTTGCTATGAACACGCGGTGGACAGGTCATCTACACATGTGG
 CCACATGTGCTCTGCTACGCTGTGGCCTGCGCCTCAAGAAGGCTCTGCACGCTGCTGCCCATCTGC
 CGCGCCCATCAAGGACATCATCAAGACCTACCGCAGCTCC

ACGCGTACGCGGCGGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

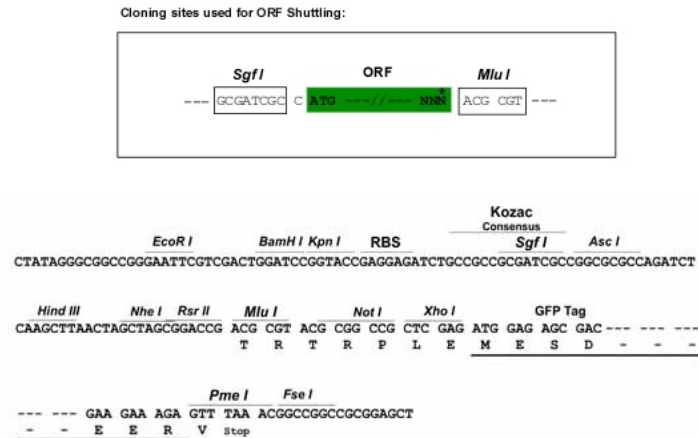
>RG205357 representing NM_004210
 Red=Cloning site Green=Tags(s)

MGNFSSIPSLPRGNPSRAPRGHPQNLKDSIGGPFVPTSHRCHHKQKHCPAVLPSSGLPATPLLFPHTK
 GSQILMDLSHKAVKRQASFCNAITFSNRPVLIYEQVRLKITKKQCCWSGALRLGFTSKDPSRIHPDSL
 YACPDVLSQSGFWAKALPEEFANEGNIIAFWVDKKGVRVHRINDSAVMLFFSGVRTADPLWALVDVYGLT
 RGVQLDSELVLPDCLRPSTALRRPSLRREADDARLSVSLCDLNVPGADGDEAAPAAGCPIPQNSLNS
 QHSRALPAQLDGLRFHALRAGAHVRILDEQTVARVEHGRDERALVFTSRPVRVAETIFVKVTRSGGARP
 GALSFVTTCDPGLRPADLPFSPEALVDRKEFWAVCRVPGPLHSGDILGLVVDNADGELHLSHNGAAAGM
 QLCVDASQPLWMLFGLHGTITQIRILGSTILAERGIPSLPCSPASTPTSPSALGSRLSDPLLSTCSSGPL
 GSSAGGTAPNSPVSLPESPVTPGLGQWSDECTICYEHAVDTVIYTCGHMCLCYACGLRLKKALHACCPIC
 RRPKIDIIKTYRSS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_004210

ORF Size: 1722 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_004210.5](#)

RefSeq Size: 4315 bp

RefSeq ORF: 1725 bp

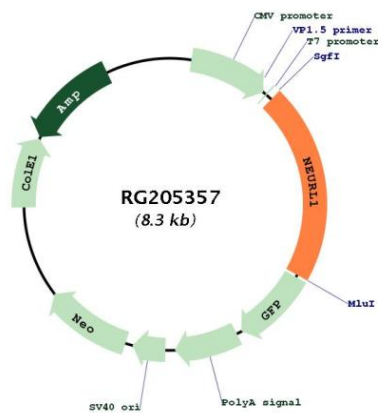
Locus ID: 9148

UniProt ID: [O76050](#)

Cytogenetics: 10q24.33

Domains:	NEUZ
Protein Families:	Druggable Genome
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 RG205357