

Product datasheet for **RC214651**

Neuroigin 4 (NLGN4Y) (NM_014893) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neuroigin 4 (NLGN4Y) (NM_014893) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Neuroigin 4
Synonyms:	HNL4Y
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC214651 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTGCGTCCCCAGGGACTGCTATGGCTCCCTTTGTTGTTACCTCTGTCTGTGTCATGTTAAACTCCA
 ATGTTCTTCTGTGGATAACTGCTTTGCCATCAAGTTCACCTCATTGACAGCCAAGCACAGTATCCAGT
 TGCAACACAAATTATGGTAAAAATCCAGGGCCTAAGAACCATTACCCAGTGAGATCTTGGGTCCAGTG
 GAGCAGTACTTAGGGTCCCCTATGCCTCACCCCAACTGGAGAGAGCGGTTTCAGCCACCAGAATCCC
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 GGCCTGCCCTGTCCAGCTGGGCAGTGAATACCAGCCGCCAAGTACACTCGGATATTGGCAGACAAGG
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 CCAACCAGTTCCTCAGGATACCAAGTTCATTCATAAAAACCAATCGCTTTGAAGAAGTGGCTGGTCC
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 CTTTTAAAACCTTCAGTGGAGGACAAAACAGTACAAATTTACCCACGGACATTCCACCCTAGAGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214651 protein sequence
Red=Cloning site Green=Tags(s)

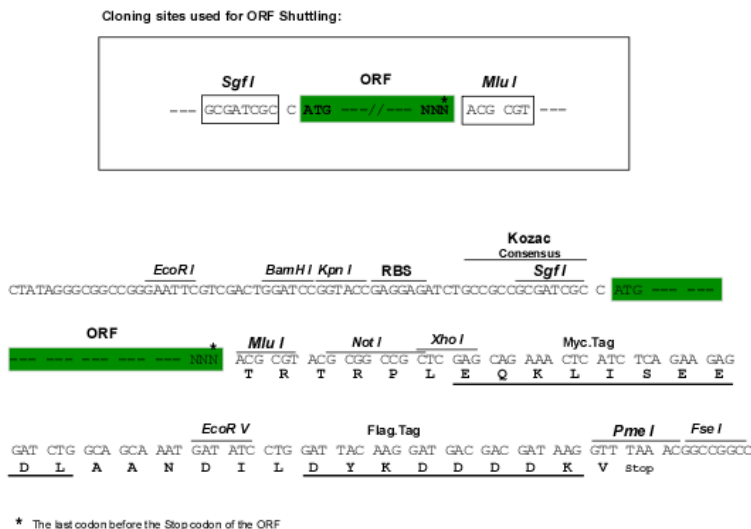
MLRPQGLLWPLLFVSVCVMLNSNVLLWITALAIKFTLIDSQAQYPVVNTNYGKIQGLRTPLPSEILGPV
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DQNEDECLYLNIIYVPMEDDIHEQNSKKPVMVYIHGGSYMEGTGNMIDGSILASYGNVIVITINYRLGILGF
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DEVYVYVFGIPMIGPTLFSNFSKNDVMSAVVMTYWTFNAKTGDPNQVPVQDTKFIHTKPNRFEEVAWS
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DKRRHETHRHSPQRNTTNDITHIQNEEIMSLQMKQLEHDHECESLQAHTLRLTCPDPYTLTLRRSPDD
IPFMPNTITMIPNTLMGMQPLHTFKTFSGGQNSTNLPHGHSTTRV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6609_b11.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_014893

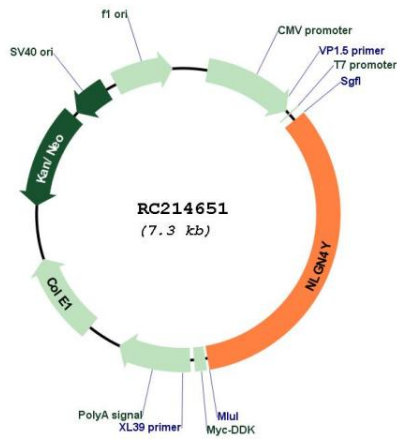
ORF Size: 2448 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

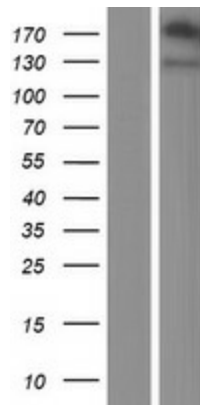
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_014893.4 , NP_055708.3
RefSeq Size:	5409 bp
RefSeq ORF:	2451 bp
Locus ID:	22829
UniProt ID:	Q8NFZ3
Cytogenetics:	Yq11.221
Domains:	COesterase
Protein Families:	Druggable Genome, Transmembrane
MW:	92 kDa
Gene Summary:	This gene encodes a type I membrane protein that belongs to the family of neuroligins, which are cell adhesion molecules present at the postsynaptic side of the synapse, and may be essential for the formation of functional synapses. Alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Mar 2011]

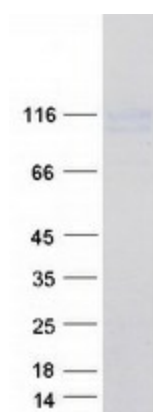
Product images:



Circular map for RC214651



Western blot validation of overexpression lysate (Cat# [LY414946]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214651 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NLGN4Y protein (Cat# [TP314651]). The protein was produced from HEK293T cells transfected with NLGN4Y cDNA clone (Cat# RC214651) using MegaTran 2.0 (Cat# [TT210002]).