

## 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**

ATGTTGCGTCCCCAGGGACTGCTATGGCTCCCTTTGTTGTTACCTCTGTCTGTGCATGTTAAACTCCA  
 ATGTTCTTCTGTGGATAACTGCTTTGCCATCAAGTTCACCTCATTGACAGCCAAGCACAGTATCCAGT  
 TGCAACACAAATTATGGTAAAAATCCAGGGCCTAAGAACCATTACCCAGTGAGATCTTGGGTCCAGTG  
 GAGCAGTACTTAGGGTCCCCTATGCCTCACCCCAACTGGAGAGAGCGGTTTCAGCCACCAGAATCCC  
 CATCCTCTGGACTGGCATCCGAAATGCTACTCAGTTTTCTGCTGTGCCCCCAGCACCTGGATGAAAAG  
 ATTCTTATTGCATGACATGCTGCCCATCTGTTTTACCACCAGTTTGATACTTTGATGACCTATGTTCAA  
 GATCAAAATGAAGACTGCCTTTACTTAAACATCTATGTGCCATGGAAGATGATATTCATGAACAGAACA  
 GTAAGAAGCCTGTTATGGTCTATATCCATGGGGGATCTACATGGAGGGAACCGTAACATGATTGATGG  
 CAGCATTTTGGCCAGCTATGGGAACGTCATCGTTATCACCATTAACCTACCGTCTGGGAATACTAGGGTTT  
 TTAAGTACCGGTGACCAGGCAGCAAAAGGCAACTATGGGCTCCTGGATCAGATTCAGCACTGAGGTGGA  
 TTGAGGAGAATGTCGGAGCCTTTGGCGGGACCCCAAGAGAGTACTATCTTTGGCTCGGGGGCTGGGGC  
 CTCCTGTGTGACGCTGTTGACCTGTCCCCTACTCAGAAGGTCTCTCCAGAAGGCCATCATTAGAGC  
 GGCCTGCCCTGTCCAGCTGGGAGTGAACACCAGCCGCAAGTACACTCGGATATTGGCAGACAAGG  
 TCGGCTGCAACATGCTGGACACCACGGACATGGTAGAATGTCTGAAGAACAAGAACTACAAGGAGTCAT  
 CCAGCAGACCATCACCCGGCCACTACCATAGCCTTTGGGCCGGTATCGACGGCGAGCTATCCCA  
 GACGACCCAGATCCTGATGGAGCAAGCGAGTTCCTCAACTACGACATCATGCTGGGCGTCAACCAAG  
 GGAAGGCTGAAGTTCGTGGACGGCATCGTGGATAACGAGGACGGTGTGACGCCCAACGACTTTGACTT  
 CTCCTGTCCAACCTTCGTGGACAACCTTTACGGCTACCCTGAAGGAAAGACACTTTGCGGGAGACTATC  
 AAGTTCATGTACACAGACTGGGCGGATAAGGAAAACCCGAGACGCGGGGAAAACCTGGTGGCTCTCT  
 TTAAGTACAGTGGGTGGCCCCGCGTGGCCACCGCCGACCTGCACGCGCAGTACGGCTCCCCAC  
 CTACTTCTATGCCTTCTATCATCACTGCCAAAGCGAAATGAAGCCAGCTGGGCAGATTCGGCCATGGC  
 GATGAAGTCCCCTATGTCTTCGGCATCCCATGATCGGTCCCACAGAGCTCTTCAAGTTGTAATTTCTCCA  
 AGAACGACGTGCTCAGTGGCGTGGTATGACCTACTGGACGAACTTCGCCAAAACCTGGTATCCAAA  
 CCAACCAGTTCCTCAGGATACCAAGTTCATTCATAAAAAACCAATCGCTTTGAAGAAGTGGCTGGTCC  
 AAGTATAATCCCAAAGACAGCTCTATCTGCATATTGGCTTGAAACCCAGAGTGAGAGATCACTACCGGG  
 CAACGAAAGTGGCTTTCTGGTTGGAATTGGTTCCTCATTTCACAACTGAACGAGATATCCAGTATGT  
 TTCAACAACCAAAAGGTTCTCCACCAGACATGACATCATTTCCCTATGGCACCCGCGGATCTCCCGCC  
 AAGATATGGCAAACCAAAACGCCAGCAATCACTCCTGCCAAACATCCCAAACACTCTAAGGACCCCTC  
 ACAAACAGGGCCCGAGGACACAACCTGCTCATTGAAACCAAACGAGATTATCCACCGAATTAAGTGT  
 CACCATTCGCGTGGGGCGTGGCTCCTCTTCTCAACATCTTAGCCTTTGCGGCGCTGTACTACAAAAG  
 GACAAGAGGCGCCATGAGACTCACAGGCACCCAGTCCCAGAGAAACACCACAAATGATACACTCACA  
 TCCAGAACGAAGAGATCATGTCTCTGCAGATGAAGCAGCTGGAACACGATCACGAGTGTGAGTGGTGA  
 GGCACACGACGCTGAGGCTCACCTGCCCTCCAGACTACACCTCACGCTGCGCCGGTGGCCGGATGAC  
 ATCCCATTATGACGCCAAACACCATCACCATGATTCAAACACATTGATGGGGATGCAGCTTTACACA  
 CTTTTAAAACCTTCAGTGGAGGACAAAACAGTACAAATTTACCCACGGACATTCCACCCTAGAGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

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

MLRPQGLLWPLLFSTVCVMLNSNVLLWITALAIKFTLIDSQAQYPVVNTNYGKIQGLRTPLPSEILGPV  
EQYLGVPYASPTGERRFQPPESSWTGIRNATQFSAVCPQLDERFLLHDMLPIWFTTSLDTLMTYVQ  
DQNEDECLYLNIIYVPMEDDIHEQNSKKPVMVYIHGGSYMEGTGNMIDGSILASYGNVIVITINYRLGILGF  
LSTGDQAAKGNYGLLDQIQALRWIEENVGAFGGDPKRVTFGSGAGASCVSLLTLSHYSEGLFQKAIQS  
GTALSSWAVNYQPAKYTRILADKVGCMMLDTTDMVECLKNKNYKELIQQTITPATYHIAFGPVIDGDVIP  
DDPQILMEQGEFLNYDIMLGVNQGEGLKFVDGIVDNEGDVTPNDFDFSVSNFVDNLYGYPEGKDTLRETI  
KFMYTDWADKENPERRKTLVALFTDHQWVAPAVATADLHAQYGSPTYFYAFYHHCQSEMKPSWADSAHG  
DEVYVYVFGIPMIGPTLFSNCFKNDVMLSAVVMTYWTFNAKTGDPNQVPVQDTKFIHTKPNRFEEVAWS  
KYNPKDQLYLHIGLKPRVRDHYRATKVAFWLELVPHLHNLNEIFQYVSTTTKVPDDMTSFPYGTTRSPA  
KIWPTTKRPAITPANNPKHSDPHKTGPEDTTVL IETKRDYSTELESVTI AVGASLLFLNILAFAALYYKK  
DKRRHETHRHSPQRNTTNDITHIQNEEIMSLQMKQLEHDHECESLQAHTLRLTCPPDYTLTLRRSPDD  
IPFMTPTNTITMIPNTLMGMQPLHTFKTFSGGQNSTNLPHGHSTTRV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6609\\_b11.zip](https://cdn.origene.com/chromatograms/mk6609_b11.zip)

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_014893

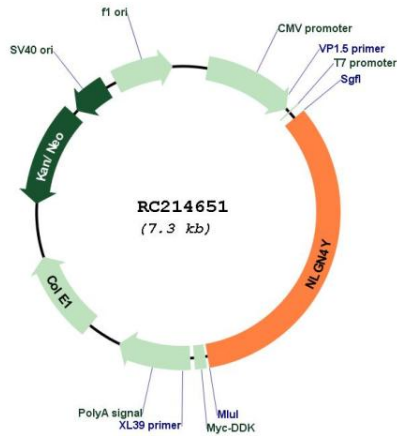
**ORF Size:** 2448 bp

**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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

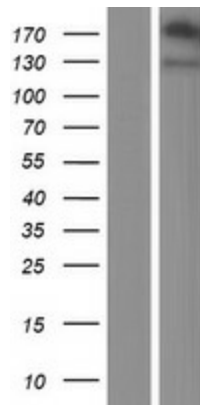
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

|                               |   |
|-------------------------------|---|
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <a href="#">NM_014893.4</a> , <a href="#">NP_055708.3</a>   |
| <b>RefSeq Size:</b>           | 5409 bp   |
| <b>RefSeq ORF:</b>            | 2451 bp   |
| <b>Locus ID:</b>              | 22829   |
| <b>UniProt ID:</b>            | <a href="#">Q8NFZ3</a>  |
| <b>Cytogenetics:</b>          | Yq11.221  |
| <b>Domains:</b>               | COesterase  |
| <b>Protein Families:</b>      | Druggable Genome, Transmembrane   |
| <b>MW:</b>                    | 92 kDa  |
| <b>Gene Summary:</b>          | 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]   |

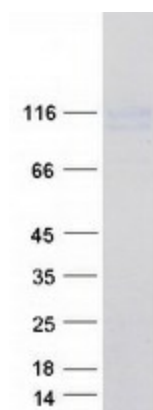
Product images:



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]).