

## Product datasheet for **RG214651**

### 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:	TurboGFP
Symbol:	Neuroigin 4
Synonyms:	HNL4Y
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG214651 representing NM\_014893  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTGCGTCCCCAGGGACTGCTATGGCTCCCTTTGTTGTTACCTCTGTCTGTGCATGTTAAACTCCA  
 ATGTTCTTCTGTGGATAACTGCTTTGCCATCAAGTTCACCCCTATTGACAGCCAAGCACAGTATCCAGT  
 TGCAACACAAATTATGGTAAAAATCCAGGGCCTAAGAACCATTACCCAGTGAGATCTTGGGTCCAGTG  
 GAGCAGTACTTAGGGTCCCCTATGCCTACCCCCAACTGGAGAGAGCGGTTTCAGCCACCAGAATCCC  
 CATCCTCTGGACTGGCATCCGAAATGCTACTCAGTTTTCTGCTGTGCCCCCAGCACCTGGATGAAAAG  
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 CTTTTAAAACCTTCAGTGGAGGACAAAACAGTACAAATTTACCCACGGACATTCACCCTAGAGTA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG214651 representing NM\_014893  
 Red=Cloning site Green=Tags(s)

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MLRPQGLLWPLLFVSVCVMLNSNVLLWITALAIKFTLIDSQAQYPVVNTNYGKIQGLRTPLPSEILGPV
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GTALSSWAVNYQPAKYTRILADKVGCMNLDTTDMVECLKNKNYKELIQQTITPATYHIAFGPVIDGDVIP
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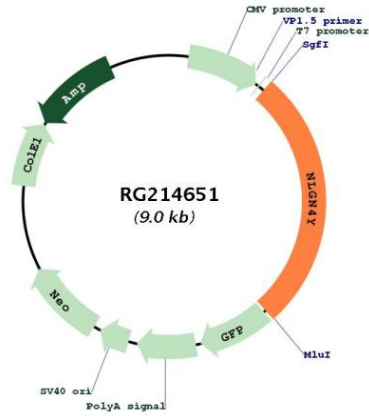
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI



<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<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>	5331 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>Gene Summary:</b>	This gene encodes a type I membrane protein that belongs to the family of neurologins, 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 RG214651