

Product datasheet for **RG233056**

Neuroigin 4 (NLGN4Y) (NM_001206850) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neuroigin 4 (NLGN4Y) (NM_001206850) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NLGN4Y
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:

>RG233056 representing NM_001206850
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGTCTATATCCATGGGGATCTTACATGGAGGGAACCGTAACATGATTGATGGCAGCATTGTTGGCCA
 GCTATGGGAACGTCATCGTTATCACCATTAACCTACCGTCTGGGAATACTAGGGTTTTTAAGTACCGGTGA
 CCAGGCAGCAAAAGGCAACTATGGGCTCCTGGATCAGATTCAAGCACTGAGGTGGATTGAGGAGAATGTC
 GGAGCCTTTGGCGGGGACCCCAAGAGAGTGACTATCTTTGGCTCGGGGGCTGGGGCTCCTGTGTGACGC
 TGTTGACCCTGTCCCACTACTCAGAAGGTCTTCCAGAAGGCCATATTCAGAGCGGCACTGCCCTGTC
 CAGCTGGCAGTGAACCTACCAGCCGGCCAAGTACACTCGGATATTGGCAGACAAGGTGGCTGCAACATG
 CTGGACACCACGGACATGGTAGAATGTCTGAAGAACAAGAACAAGGAGCTCATCCAGCAGACCATCA
 CCCCAGCCACCTACCACATAGCCTTTGGCCGGTGATCGACGGCGACGTCATCCAGACGACCCCCAGAT
 CCTGATGGAGCAAGGCGAGTTCTCAACTACGACATCATGCTGGCGTCAACCAAGGGGAAGGCCTGAAG
 TTCGTGGACGGCATCGTGGATAACGAGGACGGTGTGACGCCAACGACTTTGACTTCTCCGTGTCCAAC
 TCGTGGACAACCTTTACGGCTACCTGAAGGAAAGACACTTTGCGGGAGACTATCAAGTTCATGTACAC
 AGACTGGGCCGATAAGGAAAACCCGGAGACGCGCGGAAAACCTGGTGGCTCTCTTTACTGACCATCAG
 TGGGTGGCCCCGCCGTGGCCACCGCCGACCTGCACGCGCAGTACGGCTCCCCACCTACTTCTATGCTT
 TCTATCATCACTGCCAAAGCGAAATGAAGCCAGCTGGGCAGATTGCGCCATGGCGATGAAGTCCCCTA
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 CTCAGTCCCGTGGTGTGACCTACTGGACGAACCTCGCCAAAACCTGGTGTCCAAACCAACCAAGTTCCTC
 AGGATACCAAGTTCATTCATACAAAACCAATCGCTTTGAAGAAGTGGCCTGGTCCAAGTATAATCCCAA
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 CACCAAACGCCAGCAATCACTCCTGCCAAACATCCCAAACACTTAAGGACCCTCACAAAACAGGGCCC
 GAGGACACAACCTGCTCATTGAAACCAACGAGATTATCCACCGAATTAAGTGTACCATTGCCGTGCG
 GGGCGTCGCTCCTTCTCAACATCTTAGCCTTTGCGGCGCTGACTACAAAAGGACAAGAGGGCGCCA
 TGAGACTCACAGGCACCCAGTCCCAGAGAAACACCACAAATGATATCACTCACATCCAGAACGAAGAG
 ATCATGTCTCTGCAGATGAAGCAGCTGGAACACGATCACGAGTGTGAGTCTGCAGGCACACGACACGC
 TGAGGCTCACCTGCCCTCCAGACTACACCTCAGCTGCGCCGGTGCAGGATGACATCCCATTTATGAC
 GCCAAACACCATCACCATGATTCCAAACACATTGATGGGGATGCAGCCTTTACACACTTTAAAACCTTC
 AGTGGAGGACAAAACAGTACAAATTTACCCACGGACATTCCACCCTAGAGTA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG233056 representing NM_001206850
 Red=Cloning site Green=Tags(s)

MVYIHGGSYMEGTGNMIDGSILASYGNIIVITINRYLGLFLSTGDQAAKGNVGLLDQIQALRWIEENV
 GAFGGDPKRVTFGSGAGASCVSLLTSLHYSEGLFQKAIIQSGTALSSWAVNYQPAKYTRILADKVGCM
 LDTTDMVECLKNKNYKELIQQTITPATYHIAFGPVIDGDVIPDDPQILMEQGEFLNYDMLGVNQGEGLK
 FVDGIVDNEDGVTNDFDFSVSNFVDNLGYPEGKDTLRETIKFMYPDWADKENPETRRKTLVALFDHQ
 WVAPAVATADLHAQYGSPTYFYAFYHHCQSEMKPSWADSAHGDEVYVFGIPMIGPTELFSNFSKNDVM
 LSAVVMTYWTNFAKTGDPNQPVPQDTKFIHTKPNRFEEVAWSKYNPQDQLYLHIGLKPVRDHYRATKVA
 FWLELVPHLHNLNEIFQYVSTTTKVPDPMTSFPYGTTRRSPAKIWPPTTKRPAITPANNPKHSDPHKTP
 EDTTVLIETKRDYSTELSVTIAVGASLLFLNILAFAALYKDKRRHETHRHPSQRNTTNDITHIQNEE
 IMSLQMKQLEHDHECESLQAHDTRLRTPPDYTLTLRRSPDDIPFMPNTITMIPNTLMGMQPLHTFKTF
 SGGQNSTNLPHGHSSTRV

TRTRPLE – GFP Tag – V

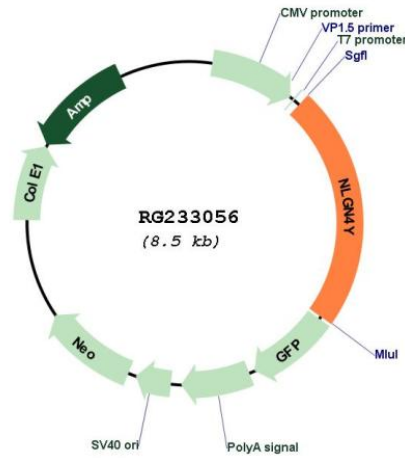
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001206850

ORF Size: 1944 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:	<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.
RefSeq:	NM_001206850.2
RefSeq Size:	5079 bp
RefSeq ORF:	1947 bp
Locus ID:	22829
UniProt ID:	Q8NFZ3
Cytogenetics:	Yq11.221
Protein Families:	Druggable Genome, Transmembrane
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]