

Product datasheet for RC228192

Neuroigin 4 (NLGN4Y) (NM_001164238) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neuroigin 4 (NLGN4Y) (NM_001164238) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NLGN4Y
Synonyms:	HNL4Y
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC228192 representing NM_001164238 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGCGTCCCCAGGGACTGCTATGGCTCCCTTTGTTGTTACCTCTGTCTGTGTCATGTTAACTCCA
ATGTTCTTCTGTGGATAACTGCTCTTGCCATCAAGTTCACCTCATTGACAGCCAAGCACAGTATCCAGT
TGCAACACAAATTATGGTAAAATCCAGGGCCTAAGAACCATTACCCAGTGAGATCTTGGGTCCAGTG
GAGCAGTACTTAGGGTCCCCTATGCCTCACCCCAACTGGAGAGAGGGGTTTCAGCCACCAGAATCCC
CATCCTCCTGGACTGGCATCCGAAATGCTACTCAGTTTTCTGCTGTGCCCCCAGCACCTGGATGAAAG
ATTCTTATTGCATGACATGCTGCCATCTGGTTTACCACCAAGTTGGATACTTTGATGACCTATGTTCAA
GATCAAAATGAAGACTGCCTTTACTTAAACATCTATGTGCCCATGGAAGATGGAACCAACATAAAGAGAA
ATGCAGACGATAAACCAGTAATGACCATGGTGAAGATAAAGATATTCATGAACAGAACAGTAAGAAGCC
TGTTATGGTCTATATCCATGGGGGATCTTACATGGAGGGAACCGTAACATGATTGATGGCAGCATTTTG
GCCAGCTATGGGAACGTCATCGTTATCACCATTAACCTACCGTCTGGGAATACTAGGTATGCAAGAGGCAC
GTTTGTGTGGGAGCTCAAAAATGTTAATTATTTTAAATCTCCTTCACTAATTTAATAAATTTTTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC228192 representing NM_001164238
 Red=Cloning site Green=Tags(s)

MLRPQGLLWPLLFVSVCVMLNSNVLLWITALAIKFTLIDSQAQYPVVNTNYGKIQGLRTPLPSEILGPV
 EQYLGVPYASPTGERRFQPPESSSWTGIRNATQFSAVCPQHLDERFLLHDMLPIWFTTSLDTLMTYVQ
 DQNECDCLYLNIIYVPMEDGTNIKRNADDITSNHGEDKDIHEQNSKKPVMVYIHGGSYMEGTGNMIDGSIL
 ASYGNVIVITINYRLGILGMQEARLCGSSKMFNYFKSPFTNLINFF

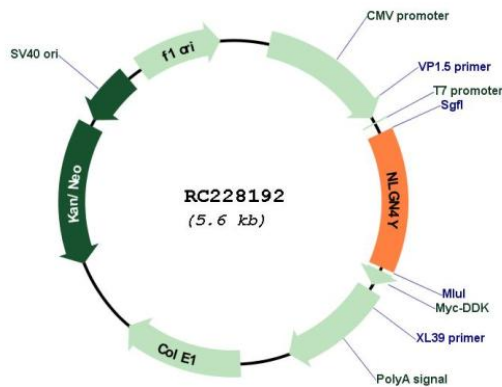
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001164238
ORF Size: 768 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_001164238.1 , NP_001157710.1
RefSeq ORF:	771 bp
Locus ID:	22829
UniProt ID:	Q8NFZ3
Cytogenetics:	Yq11.221
Protein Families:	Druggable Genome, Transmembrane
MW:	28.7 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]