

Product datasheet for **RG204792**

NGDN (NM_001042635) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NGDN (NM_001042635) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NGDN
Synonyms:	C14orf120; CANu1; LCP5; lpd-2; NGD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204792 representing NM_001042635 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCGGCGCTGGGGTGCTGGAGTCCGACCTGCCAAGTGCCGTGACACTTCTGAAAAATCTCCAGGAGC
 AAGTGATGGCTGTAAGTGCACAAGTGAATCACTGACACAAAAGTTCAAGCTGGTGCCTATCCTACAGA
 AAAGGGTCTCAGCTTCTTGAAGTGAAGACCAGCTGCTGCTCATGTACCTTATGGATTTGACCCACCTC
 ATTCTGGACAAAGCCTCAGGAGGATCTCTCAGGGACATGATGCAGTTTTGAGACTGGTAGAGATTCGAA
 CGGTTTTGAAAAGCTTCGTCCCTTGGACAAAAGCTGAAGTATCAAATTGACAAGCTGATCAAGACTGC
 AGTGACAGGCAGCCTTAGTGAGAATGACCACTTCGTTTTAAGCCTCATCCAGCAATATGATGAGCAAG
 TTGAGCTCTGAGGATGAGGAGGAAGATGAAGCAGAAGATGACCAGTCTGAGGCTTCAGGGAAGAAATCTG
 TGAAGGGAGTGTCTAAGAAATATGTTCCCTCCACGCTTGGTTCCAGTACATTATGATGAAACAGAAGCTGA
 GCGGGAGAAGAAGCGTCTAGAACGAGCCAAGAGACGGGCATTGAGCAGCTCTGTCATTCTGAACTTAAG
 GAGCAGTACTCAGATGCTCCAGAGGAAATCCGTGATGCTCGGCATCCCATGTTACCCGCCAGAGTCAGG
 AGGACCAACACAGGATTAATATGAGGAGAGCATGATGGTGCCTTGAGCGTCAGTAAGCGAGAGAAAGG
 ACGGCGAAAACGAGCAAATGTCATGAGCTCACAACCTTCATTCCCTTACACACTTCAGTGACATCAGTGCT
 TTGACAGGGGAACTGTTTCATCTTGATGAGGATCAGAATCCTATTAAGAAGCGGAAGAAGATACCTCAGA
 AAGGTCGGAAGAAAAAGGTTTTTCGGAGCGGCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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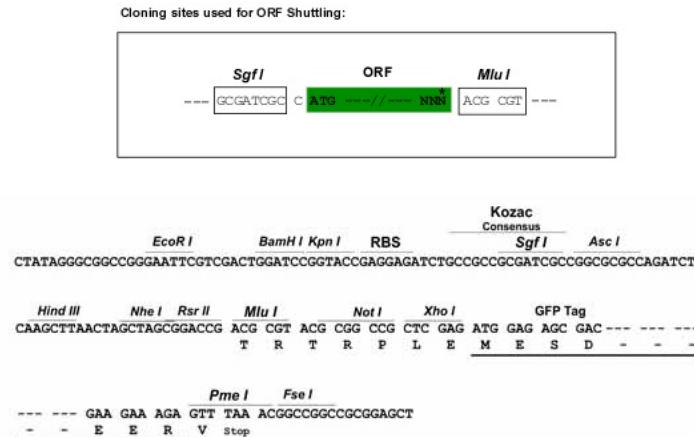
Protein Sequence: >RG204792 representing NM_001042635
 Red=Cloning site Green=Tags(s)

MAALGVLESDLPASVTLKLNQEQVMAVTAQVKSLTQKVQAGAYPTEKGLSFLEVKDQLLLMYLMDLTHL
 ILDKASGGSLQGHDAVLRRLVEIRTVLEKLRPLDQKLKYQIDKLKTAVTGSLSENDPLRFKPHPSNMMSK
 LSEDEEEDEAEDDQSEASGKSVKGVSKKYVPPRLVPVHYDETEAEREKKRLERAKRRALSSSVIRELK
 EQYSDAPEEIRDARHPHVTRQSQEDQHRINYEESMMVRLSVSKREKGRKRANVMSSQLHSLTHFSDISA
 LTGGTVHLEDDQNPIKKRKKIPQKGRKKKGFRRRR

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001042635

ORF Size: 945 bp

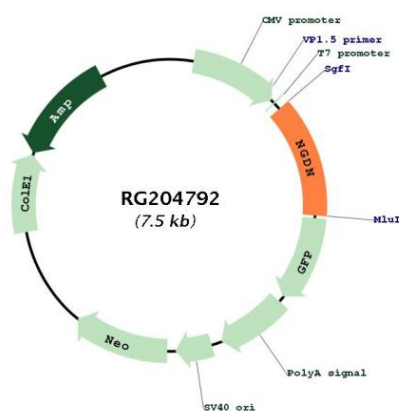
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	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:	<u>NM_001042635.1, NP_001036100.1</u>
RefSeq Size:	1142 bp
RefSeq ORF:	948 bp
Locus ID:	25983
UniProt ID:	<u>Q8NEJ9</u>
Cytogenetics:	14q11.2
Gene Summary:	Neuroguidin is an EIF4E (MIM 133440)-binding protein that interacts with CPEB (MIM 607342) and functions as a translational regulatory protein during development of the vertebrate nervous system (Jung et al., 2006 [PubMed 16705177]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG204792