

Product datasheet for **RC204792**

NGDN (NM_001042635) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NGDN (NM_001042635) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NGDN
Synonyms:	C14orf120; CANu1; LCP5; Ipd-2; NGD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204792 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGGCGGCGCTGGGGGTGCTGGAGTCCGACCTGCCAAGTGCCGTGACACTTCTGAAAAATCTCCAGGAGC
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AGTGACAGGCAGCCTTAGTGAGAATGACCACTTCGTTTTAAGCCTCATCCAGCAATATGATGAGCAAG
TTGAGCTCTGAGGATGAGGAGGAAGATGAAGCAGAAGATGACCAGTCTGAGGCTTCAGGGAAGAAATCTG
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GCGGGAGAAGAAGCGTCTAGAACGAGCCAAGAGACGGGCATTGAGCAGCTCTGTCATTCTGTAACCTAAG
GAGCAGTACTCAGATGCTCCAGAGGAAATCCGTGATGCTCGGCATCCCCATGTTACCCGCCAGAGTCAGG
AGGACCAACACAGGATTAAGTATGAGGAGAGCATGATGGTGCCTTTGAGCGTCAGTAAGCGAGAGAAAGG
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TTGACAGGGGAACTGTTTCATCTTGATGAGGATCAGAATCCTATTAAGAAGCGGAAGAAGATACCTCAGA
AAGGTCGGAAGAAAAAGGTTTTTCGGAGCGCGCG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204792 protein sequence
 Red=Cloning site Green=Tags(s)

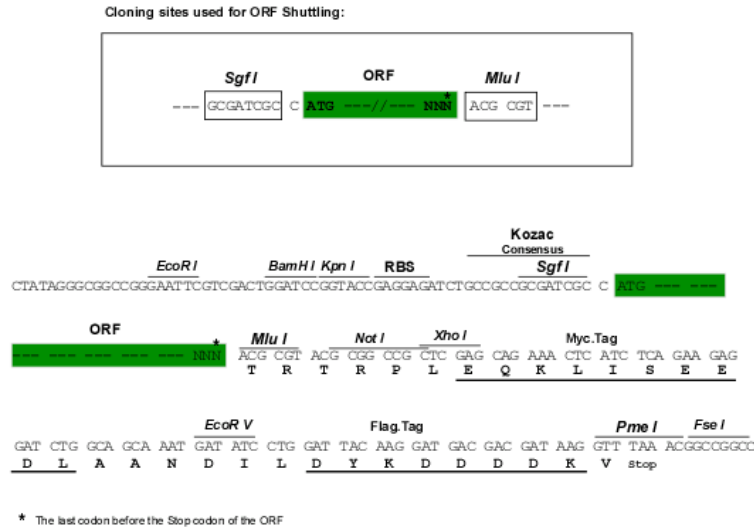
MAALGVLESDLPASVTLKLNQEQVMAVTAQVKSLTQKVQAGAYPTEKGLSFLEVKDQLLLMYLMDLTHL
 ILDKASGGSLQGHDAVLRLEIRTVEKLRPLDQKLKYQIDKLKTAVTGSLSENDPLRFKPHPSNMMSK
 LSSEDEEEDEAEDDQSEASGKSVKGVSKKYVPPRLVPVHYDETEAEREKKRLERAKRRALSSSVIRELK
 EQYSDAPEEIRDARHPHVTRQSQEDQHRINYEESMMVRLSVSKREKGRKRANVMSSQLHSLTHFSDISA
 LTGGTVHLDEDQNPPIKKRKKIPQKGRKKKGFRRRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6551_f05.zip

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001042635.1](#), [NP_001036100.1](#)

RefSeq Size: 1142 bp

RefSeq ORF: 948 bp

Locus ID: 25983

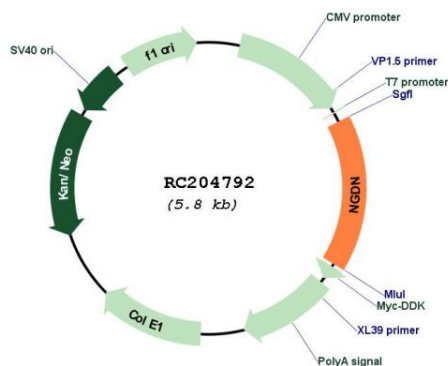
UniProt ID: [Q8NEJ9](#)

Cytogenetics: 14q11.2

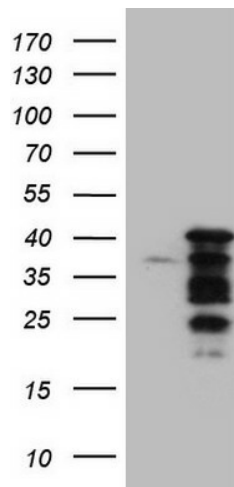
MW: 35.9 kDa

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]

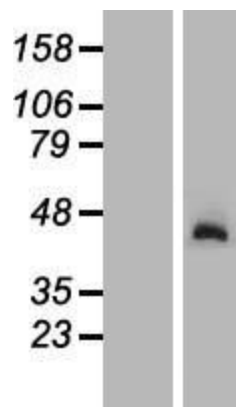
Product images:



Circular map for RC204792



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NGDN (Cat# RC204792, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NGDN (Cat# [TA808832])(1:2000). Positive lysates [LY421013] (100ug) and [LC421013] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY421013]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204792 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).