

Product datasheet for **RC207853**

Neurogenin 2 (NEUROG2) (NM_024019) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Neurogenin 2 (NEUROG2) (NM_024019) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Neurogenin 2 |
| Synonyms: | Atoh4; bHLHa8; Math4A; ngn-2; NGN2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC207853 representing NM_024019 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTTCGTCAAATCCGAGACCTTGGAGTTGAAGGAGGAAGAGGACGTGTTAGTGCTGCTCGGATCGGCCT
CCCCGCCTTGGCGGCCCTGACCCCGTGTATCCAGCGCCGACGAAGAAGAGGAGGAGGAGCCGGGCGC
GTCAGGCGGGGCGCTCGGCAGCGCGGGGCTGAGGCCGGCAGGGGGCGGGGGCGGCTGGCTGCGGGT
GCGGAGGGCTGCCGGCCGCACGGCTGCTGGGTCTGGTACACGATTGCAAACGGCGCCCTCCCGGGCGC
GGGCCGTCTCCCGAGGCCAAGACGGCCGAGACGGTGCAGCGCATCAAGAAGACCCGTAGACTGAAGGC
CAACAACCGCGAGCGAAACCGCATGCACAACCTCAACGCGGCACTGGACGCGCTGCGCGAGGTGCTCCCC
ACGTTCCCGAGGACGCCAAGCTCACCAAGATCGAGACCCTGCGCTTCGCCACAACTACATCTGGGCAC
TCACCGAGACCCTGCGCCTGGCGGATCACTGCGGGGGCGGCGGGGGGCTGCCGGGGGCGCTCTTCTC
CGAGGCAGTGTGCTGAGCCCGGAGGCCAGCGCCGCCCTGAGCAGCAGCGGAGACAGCCCTCGCCC
GCCTCCACGTGGAGTTGCACCAACAGCCCCGCGCCGTCTCTCCGTGTCTCCAATCCACCTCCCCCT
ACAGCTGCACTTATCGCCCCAGCCCCGGCGGGTCCAGACATGGACTATTGGCAGCCCCACCTCCCGA
CAAGCACCGCTATGCACCTCACCTCCCCATAGCCAGGGATTGTATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC207853 representing NM_024019
Red=Cloning site Green=Tags(s)

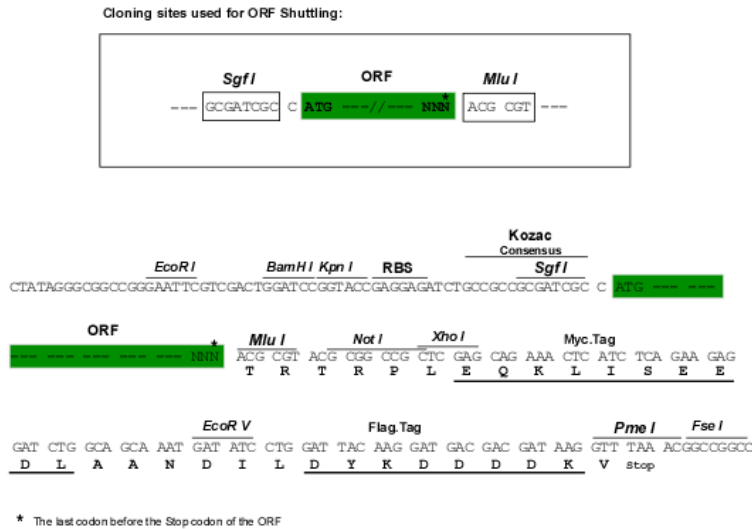
MFVKSETLELKEEEDVLLVLLGSASPALAALTPSSSADEEEEEEPGASGGARRQRGAEGQGARGGVAAG
 AEGCRPARLLGLVHDCKRRPSRARAVSRGAKTAETVQRICKTRRLKANNRERNMHNALDALREVLP
 TFPEDA KLT KIETLRF AHNYI WAL TETLRLADHCGGGGGGLPGALFSEAVLLSPGGASAALSSSGDPS
 ASTWCTNSPAPSSSVSSNSTSPYSCTLSPASPAGSDMDYWQPPPPDKHRYAPHLPIARDCI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2919_h02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024019

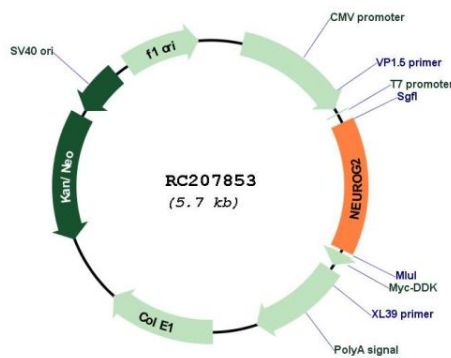
ORF Size: 816 bp

OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

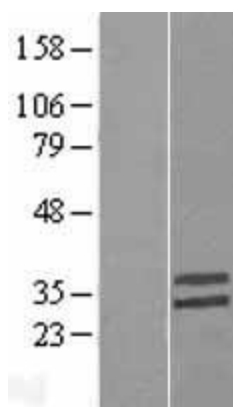
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.

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| 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: | <u>NM_024019.2</u> , <u>NP_076924.1</u> |
| RefSeq Size: | 2370 bp |
| RefSeq ORF: | 819 bp |
| Locus ID: | 63973 |
| UniProt ID: | <u>Q9H2A3</u> |
| Cytogenetics: | 4q25 |
| Protein Families: | Transcription Factors |
| MW: | 28.4 kDa |
| Gene Summary: | This gene encodes a neural-specific basic helix-loop-helix (bHLH) transcription factor that can specify a neuronal fate on ectodermal cells and is expressed in neural progenitor cells within the developing central and peripheral nervous systems. The protein product of this gene also plays a role in the differentiation and survival of midbrain dopaminergic neurons. [provided by RefSeq, Apr 2012] |

Product images:


Circular map for RC207853



Western blot validation of overexpression lysate (Cat# [LY411396]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207853 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).