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# Product datasheet for RG207853

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

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Tag:** | TurboGFP |
| **Symbol:** | Neurogenin 2 |
| **Synonyms:** | Atoh4; bHLHa8; Math4A; ngn-2; NGN2 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**ORF Nucleotide Sequence:**

>RG207853 representing NM_024019
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTCGTCAAATCCGAGACCTTGGAGTTGAAGGAGGAAGAGGACGTGTTAGTGCTGCTCGGATCGGCCT
CCCCCGCCTTGGCGGCCCTGACCCCGCTGTCATCCAGCGCCGACGAAGAAGAGGAGGAGGAGCCGGGCGC
GTCAGGCGGGGCGCGTCGGCAGCGCGGGGCTGAGGCCGGGCAGGGGGCGCGGGGCGGCGTGGCTGCGGGT
GCGGAGGGCTGCCGGCCCGCACGGCTGCTGGGTCTGGTACACGATTGCAAACGGCGCCCTTCCCGGGCGC
GGGCCGTCTCCCGAGGCGCCAAGACGGCCGAGACGGTGCAGCGCATCAAGAAGACCCGTAGACTGAAGGC
CAACAACCGCGAGCGAAACCGCATGCACAACCTCAACGCGGCACTGGACGCGCTGCGCGAGGTGCTCCCC
ACGTTCCCCGAGGACGCCAAGCTCACCAAGATCGAGACCCTGCGCTTCGCCCACAACTACATCTGGGCAC
TCACCGAGACCCTGCGCCTGGCGGATCACTGCGGGGGCGGCGGCGGGGGCCTGCCGGGGGCGCTCTTCTC
CGAGGCAGTGTTGCTGAGCCCGGGAGGCGCCAGCGCCGCCCTGAGCAGCAGCGGAGACAGCCCCTCGCCC
GCCTCCACGTGGAGTTGCACCAACAGCCCCGCGCCGTCCTCCTCCGTGTCCTCCAATTCCACCTCCCCCT
ACAGCTGCACTTTATCGCCCGCCAGCCCGGCCGGGTCAGACATGGACTATTGGCAGCCCCCACCTCCCGA
CAAGCACCGCTATGCACCTCACCTCCCCATAGCCAGGGATTGTATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:**

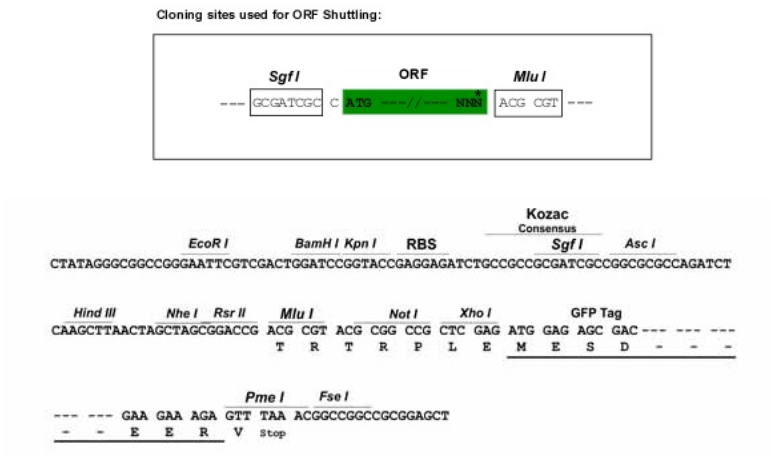
>RG207853 representing NM_024019
Red=Cloning site Green=Tags(s)

MFVKSETLELKEEEDVLVLLGSASPALAALTPLSSSADEEEEEEPGASGGARRQRGAEAGQGARGGVAAG
AEGCRPARLLGLVHDCKRRPSRARAVSRGAKTAETVQRIKKTRRLKANNRERNRMHNLNAALDALREVLP
TFPEDAKLTKIETLRFAHNYIWALTETLRLADHCGGGGGGLPGALFSEAVLLSPGGASAALSSSGDSPSP
ASTWSCTNSPAPSSSVSSNSTSPYSCTLSPASPAGSDMDYWQPPPPDKHRYAPHLPIARDCI

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_024019

**ORF Size:** 816 bp

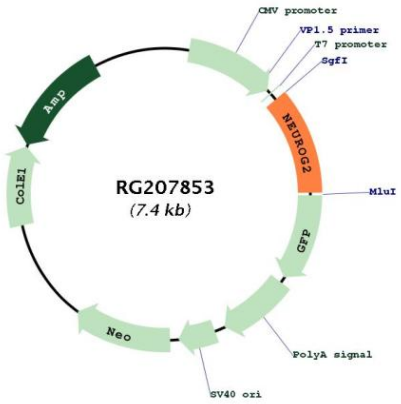
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_024019.2, NP_076924.1 |
| **RefSeq Size:** | 2370 bp |
| **RefSeq ORF:** | 819 bp |
| **Locus ID:** | 63973 |
| **UniProt ID:** | Q9H2A3 |
| **Cytogenetics:** | 4q25 |
| **Protein Families:** | Transcription Factors |
| **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 RG207853