

## Product datasheet for **RG207029**

### Neurogenin 1 (NEUROG1) (NM\_006161) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neurogenin 1 (NEUROG1) (NM_006161) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Neurogenin 1
Synonyms:	AKA; bHLHa6; Math4C; NEUROD3; ngn1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207029 representing NM_006161 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCAGCCCGCCTTGAGACCTGCATCTCCGACCTCGACTGCGCCAGCAGCAGCGGCAGTGACCTATCCG  
GCTTCCTCACCGACGAGGAAGACTGTGCCAGACTCCAACAGGCAGCCTCCGTTTCGGGGCCGCCCGCGCC  
GGCCCGCAGGGGCGGCCAATATCTCCGGGCGTCTGAGGTTCCAGGGCACAGGACGACGAGCAGGAG  
AGGCGGCGGCCGCGGCCGACGCGGTCCGCTCCGAGGCGCTGCTGCACTCGCTGCGCAGGAGCCGGC  
GCGTCAAGCCAACGATCGCGAGCGCAACCGCATGCACAATTGAACGCGGCCCTGGACGCACTGCGCAG  
CGTGCTGCCCTCGTTCGCCGACGACCAAGCTCACAAAATCGAGACGCTGCGCTTCGCTACAACCTAC  
ATCTGGGCTCTGGCCGAGACTGCGCCTGGCGGATCAAGGGCTGCCCGAGGCGGTGCCCGGAGCGCC  
TCTGCGCCCGCAGTGCGTCCCCTGCTGCGCGTCCCCAAGCCCCGCGCAGCGCGGAGTCTGGGG  
CTCAGGTGCCCGCCGCTCCCCGCTCTGACCCAGTAGCCAGCGCCTCCGAAGACTTCACTAC  
CGCCCCGGCGACCCTGTTTTCTCTTCCCAAGCCTGCCAAAGACTTGCTCCACACAACGCCCTGTTTCA  
TTCCTTACCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG207029 representing NM\_006161  
 Red=Cloning site Green=Tags(s)

MPARLETICISDLDCASSSGDLSGFLTDEEDCARLQQAASASGPPAPARRGAPNISRASEVPGAQDDEQE  
 RRRRRGRTRVRSEALLHSLRRSRRVKANDRERNMHNLNAALDALRSVLPSPFDDTKLTKIETLRFAYNY  
 IWALAETLRLADQGLPGGGARERLLPQCVPCLPGPPSPASDAESWGSAAAAASPLSDPSSPAASEDFTY  
 RPGDPVFSFPLPKDLLHTTPCFIPYH

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_006161

**ORF Size:** 711 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:** [NM\\_006161.3](#)

**RefSeq Size:** 1717 bp

**RefSeq ORF:** 714 bp

**Locus ID:** 4762

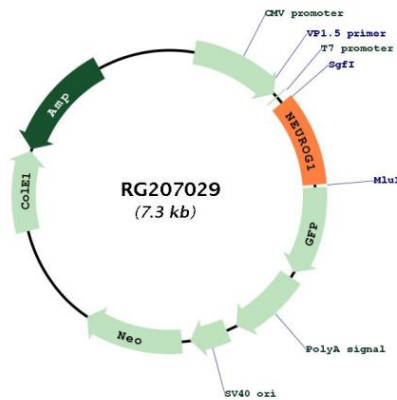
**UniProt ID:** [Q92886](#)

**Cytogenetics:** 5q31.1

**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors

**Gene Summary:** Acts as a transcriptional regulator. Involved in the initiation of neuronal differentiation. Activates transcription by binding to the E box (5'-CANNTG-3'). Associates with chromatin to enhancer regulatory elements in genes encoding key transcriptional regulators of neurogenesis (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG207029