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Product datasheet for RC207029

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:	Myc-DDK
Symbol:	Neurogenin 1
Synonyms:	AKA; bHLHa6; Math4C; NEUROD3; ngn1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC207029 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCAGCCCGCCTTGAGACCTGCATCTCCGACCTCGACTGCGCCAGCAGCAGCGGCAGTGACCTATCCG
GCTTCCTCACCGACGAGGAAGACTGTGCCAGACTCCAACAGGCAGCCTCCGCTTCGGGGCCGCCCGCGCC
GGCCCGCAGGGGCGCGCCCAATATCTCCCGGGCGTCTGAGGTTCCAGGGGCACAGGACGACGAGCAGGAG
AGGCGGCGGCGCCGCGGCCGGACGCGGGTCCGCTCCGAGGCGCTGCTGCACTCGCTGCGCAGGAGCCGGC
GCGTCAAGGCCAACGATCGCGAGCGCAACCGCATGCACAACTTGAACGCGGCCCTGGACGCACTGCGCAG
CGTGCTGCCCTCGTTCCCCGACGACACCAAGCTCACCAAAATCGAGACGCTGCGCTTCGCCTACAACTAC
ATCTGGGCTCTGGCCGAGACACTGCGCCTGGCGGATCAAGGGCTGCCCGGAGGCGGTGCCCGGGAGCGCC
TCCTGCCGCCGCAGTGCGTCCCCTGCCTGCCCGGTCCCCCAAGCCCCGCCAGCGACGCGGAGTCCTGGGG
CTCAGGTGCCGCCGCCGCCTCCCCGCTCTCTGACCCCAGTAGCCCAGCCGCCTCCGAAGACTTCACCTAC
CGCCCCGGCGACCCTGTTTTCTCCTTCCCAAGCCTGCCCAAAGACTTGCTCCACACAACGCCCTGTTTCA
TTCCTTACCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

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>RC207029 protein sequence
Red=Cloning site Green=Tags(s)

MPARLETCISDLDCASSSGSDLSGFLTDEEDCARLQQAASASGPPAPARRGAPNISRASEVPGAQDDEQE
RRRRRGRTRVRSEALLHSLRRSRRVKANDRERNRMHNLNAALDALRSVLPSFPDDTKLTKIETLRFAYNY
IWALAETLRLADQGLPGGGARERLLPPQCVPCLPGPPSPASDAESWGSGAAAASPLSDPSSPAASEDFTY
RPGDPVFSFPSLPKDLLHTTPCFIPYH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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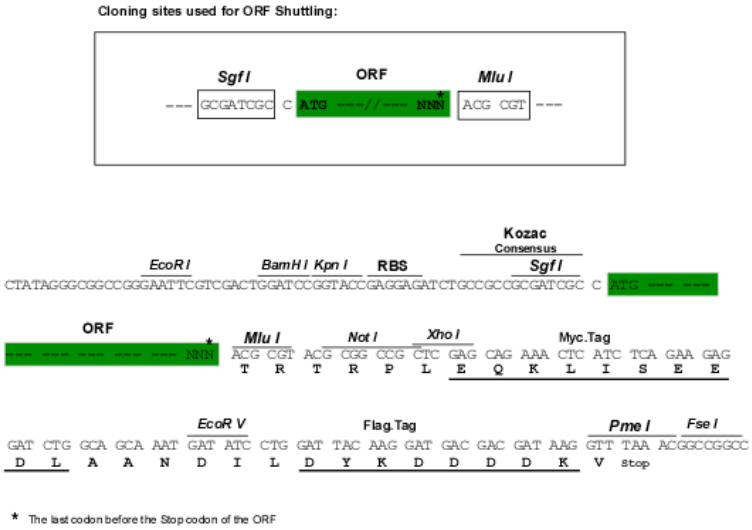
Chromatograms: https://cdn.origene.com/chromatograms/mk6192_f04.zip

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).

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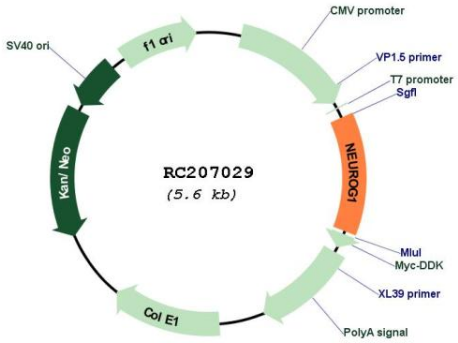
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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
MW:	25.7 kDa
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 RC207029

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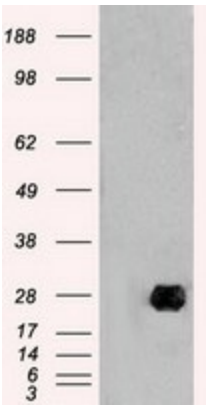
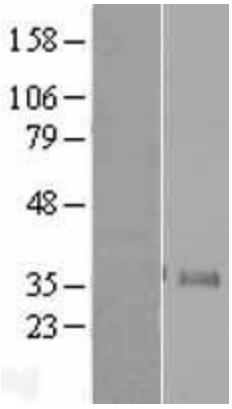
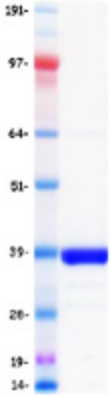


HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NEUROG1 (Cat# RC207029, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NEUROG1 (Cat# [TA500305]). Positive lysates [LY401855] (100ug) and [LC401855] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401855]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207029 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NEUROG1 protein (Cat# [TP307029]). The protein was produced from HEK293T cells transfected with NEUROG1 cDNA clone (Cat# RC207029) using MegaTran 2.0 (Cat# [TT210002]).

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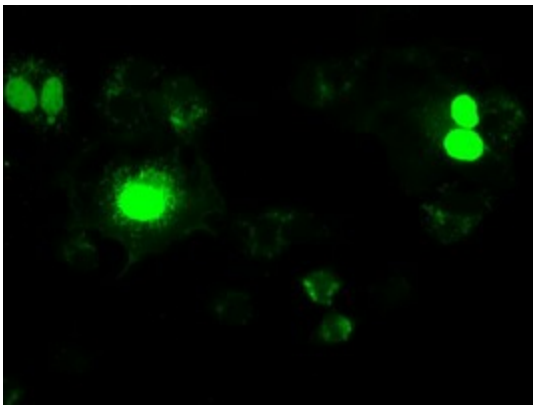

Anti-NEUROG1 mouse monoclonal antibody ([TA500305]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY NEUROG1 (RC207029).

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