

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

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAGCCCGCCTTGAGACCTGCATCTCCGACCTCGACTGCGCCAGCAGCAGCGGCAGTGACCTATCCG
GCTTCCTCACCGACGAGGAAGACTGTGCCAGACTCCAACAGGCAGCCTCCGTTTCGGGGCCGCCCGCGCC
GGCCCGCAGGGGCGCGCCAATATCTCCCGGGCTCTGAGGTTCCAGGGGCACAGGACGACGAGCAGGAG
AGGCGGCGCGCCGCGGGCGGACGCGGGTCCGCTCCGAGGCGCTGCTGCACTCGCTGCGCAGGAGCCGGC
GCGTCAAGGCCAACGATCGCGAGCGCAACCGCATGCACAATTGAACGCGGCCCTGGACGCACTGCGCAG
CGTGTGCCCTCGTTCGCCGACGACCAAGCTCACAAAATCGAGACGCTGCGCTTCGCTACAACCTAC
ATCTGGGCTCTGGCCGAGACACTGCGCCTGGCGGATCAAGGGCTGCCCGAGGCGGTGCCCGGAGCGCC
TCTGCCCGCGCAGTGCCTCCCTGCCTGCCCGGTCCCCAAGCCCCGCCAGCGACGCGGAGTCTGGGG
CTCAGGTGCCCGCCGCTCCCGCTCTTGACCCAGTAGCCAGCCGCTCCGAAGACTTCACTAC
CGCCCCGGCGACCCTGTTTTCTCCTTCCCAAGCCTGCCAAAGACTTGCTCCACACAACGCCCTGTTTCA
TTCCTTACCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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](#)

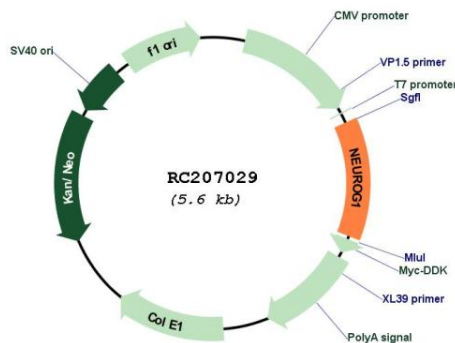
Cytogenetics: 5q31.1

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

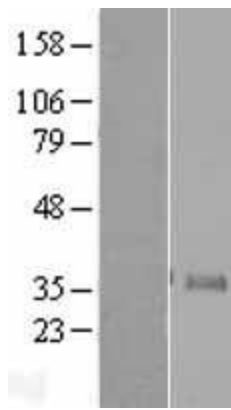
MW: 25.7 kDa

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]

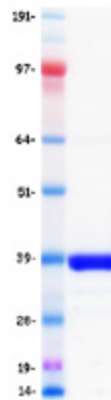
Product images:



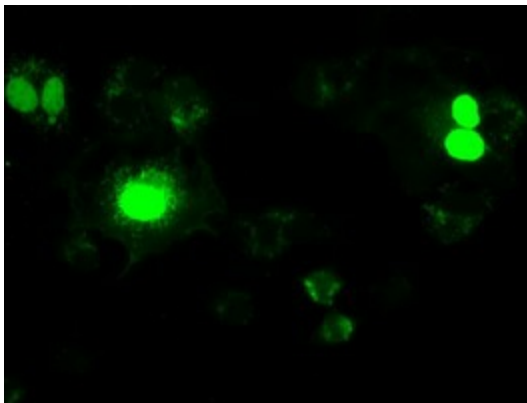
Circular map for RC207029



Western blot validation of overexpression lysate (Cat# [LY401855]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected 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]).



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