

Product datasheet for RC207178

NEUROD6 (NM_022728) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEUROD6 (NM_022728) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NEUROD6
Synonyms:	Atoh2; bHLHa2; Math-2; MATH2; Nex1; NEX1M
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207178 representing NM_022728 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGTTAACTACCGTTTGATGAGTCTGTTGTAATGCCAGAATCCAGATGTGCAGAAAGTTTCTAGAG
AATGCGAGGACCAGAAGCAAAATTAAGAAGCCAGAAAGCTTTCCAAACAGATTGTCCTTCGAGGAAAGAG
CATCAAAAGGGCCCTGGAGAAGAAACCGAGAAAGAAGAGGAGGAAGACAGGGAAGAGGAAGATGAA
AATGGGTTCCTAGAAGGAGGGTCTTAGGAAAAAAGACAACAAAGCTGCGATTGGAAGGGTCAAGT
TCAGGAGACAGGAAGCGAACGCGCGGAGAGGAACAGGATGCACGGCCTCAACGACGCTCTGGACAACCT
AAGAAAAGTGGTCCCCTGTTATTCTAAAACCCAGAACTGTCCAAATAGAGACTTTACGACTGGCCAAA
AACTACATCTGGGCACTTTCTGAAATTCTGAGAATCGGCAAGAGACCAGATCTGCTCACATTCGTCCAAA
ACTTATGCAAAGGTCTTTCCAGCCAACATAAACTTGGTGGCAGGCTGCTTGACGCTCAACGCCAGGAG
TTTCATGATGGGTGAGGTGGGGAGGCTGCACACCACACAAGGTCACCTACTCTACCTTCTACCCACCC
TACCACAGCCCTGAGCTCACCCTCCCCAGGGCATGGGACTCTTGATAATTCGAAGTCCATGAAACCT
ACAATTATTGAGTGCATGAATCCTTCTATGAAAGTACTTCCCTGAGTGTGCCAGCCCTCAGTTTGA
AGGTCCCTTAAGTCCCTCCCAATTAACATAATGGGATATTTCCCTGAAGCAAGAAGAAACCTTGGAC
TATGGTAAAAATTACAATTACGGCATGCATTACTGTGAGTGCACCCAGGGGTCCCCTTGGCAGGGTG
CCATGTTGAGGTTGCCACCGACAGCCACTTCCCTTACGACTTACATCTGCGCAGCCAATCTCTACAAT
GCAAGATGAATTAATGCAGTTTTTTCATAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC207178 representing NM_022728
 Red=Cloning site Green=Tags(s)

MLTLPFDESVMPE SQMCRKFSRECEDQKQIKKPESFSKQIVLRGKSIKRAPGEETEKEEEEEEDREEEDE
 NGLPRRRGLRKKKTTKLRLERVKFRQEANARERNRMHGLNDALDNLKVVPCYSKTQKLSKIETLRLAK
 NYIWALSEILRIGKRPDLLTFVQNLCKGLSQPTTNLVAGCLQLNARSFMMGQGGEAAHTRSPYSTFYPP
 YHSPELTPPGHGTLDNSKSMKPYNYCSAYESFYESTSPECASPFEGPLSPPPINYNIGIFSLKQEETLD
 YGKNYNYGMHYCAVPPRGPLGQGAMFRLPTDSHFYDLHLRSQSLTMQDELNAVFNH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3469_a09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022728

ORF Size: 1011 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_022728.4](#)

RefSeq Size: 2175 bp

RefSeq ORF: 1014 bp

Locus ID: 63974

UniProt ID: [Q96NK8](#)

Cytogenetics: 7p14.3

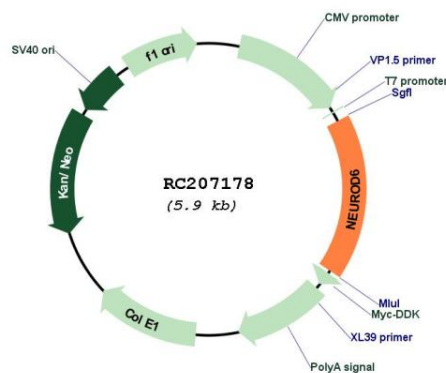
Domains: HLH

Protein Families: Druggable Genome, Transcription Factors

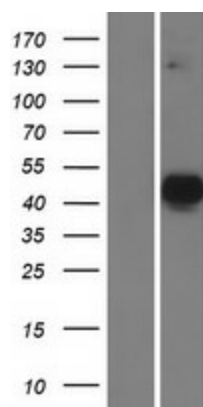
MW: 38.5 kDa

Gene Summary: This gene is a member of the NEUROD family of basic helix-loop-helix transcription factors. The encoded protein may be involved in the development and differentiation of the nervous system. [provided by RefSeq, Nov 2012]

Product images:



Circular map for RC207178



Western blot validation of overexpression lysate (Cat# [LY411595]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207178 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).