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Product datasheet for RC205293

NEUROD2 (NM_006160) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEUROD2 (NM_006160) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NEUROD2
Synonyms:	bHLHa1; DEE72; EIEE72; NDRF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC205293 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGACCCGCCTGTTCAGCGAGCCCGGCCTTCTCTCGGACGTGCCCAAGTTCGCCAGCTGGGGCGACG
GCGAAGACGACGAGCCGAGGAGCGACAAGGGCGACGCGCCGCCACCGCCACCGCCTGCGCCCGGGCCAGG
GGCTCCGGGGCCAGCCCGGGCGGCCAAGCCAGTCCCTCTCCGTGGAGAAGAGGGGACGGAGGCCACGTTG
GCCGAGGTCAAGGAGGAAGGCGAGCTGGGGGGAGAGGAGGAGGAGGAAGAGGAGGAGGAAGAAGGACTGG
ACGAGGCGGAGGGCGAGCGGCCCAAGAAGGGCGGGCCCAAGAAGCGCAAGATGACCAAGGCGCGCTTGGA
GCGCTCCAAGCTTCGGCGGCAGAAGGCGAACGCGCGGGAGCGCAACCGCATGCACGACCTGAACGCAGCC
CTGGACAACCTGCGCAAGGTGGTGCCCTGCTACTCCAAGACGCAGAAGCTGTCCAAGATCGAGACGCTGC
GCCTAGCCAAGAACTATATCTGGGCGCTCTCGGAGATCCTGCGCTCCGGCAAGCGGCCAGACCTAGTGTC
CTACGTGCAGACTCTGTGCAAGGGTCTGTCGCAGCCCACCACCAATCTGGTGGCCGGCTGTCTGCAGCTC
AACTCTCGCAACTTCCTCACGGAGCAAGGCGCCGACGGTGCCGGCCGCTTCCACGGCTCGGGCGGCCCGT
TCGCCATGCACCCCTACCCGTACCCGTGCTCGCGCCTGGCGGGCGCACAGTGCCAGGCGGCCGGCGGCCT
GGGCGGCGGCGCGGCGCACGCCCTGCGGACCCACGGCTACTGCGCAGCCTACGAGACGCTGTATGCGGCG
GCAGGCGGTGGCGGCGCGAGCCCGGACTACAACAGCTCCGAGTACGAGGGCCCGCTCAGCCCCCCGCTCT
GTCTCAATGGCAACTTCTCACTCAAGCAGGACTCCTCGCCCGACCACGAGAAAAGCTACCACTACTCTAT
GCACTACTCGGCGCTGCCCGGTTCGCGGCCCACGGGCCACGGGCTAGTCTTCGGCTCGTCGGCTGTGCGC
GGGGGCGTCCACTCGGAGAATCTCTTGTCTTACGATATGCACCTTCACCACGACCGGGGCCCCATGTACG
AGGAGCTCAATGCGTTTTTTCATAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC205293 protein sequence
Red=Cloning site Green=Tags(s)

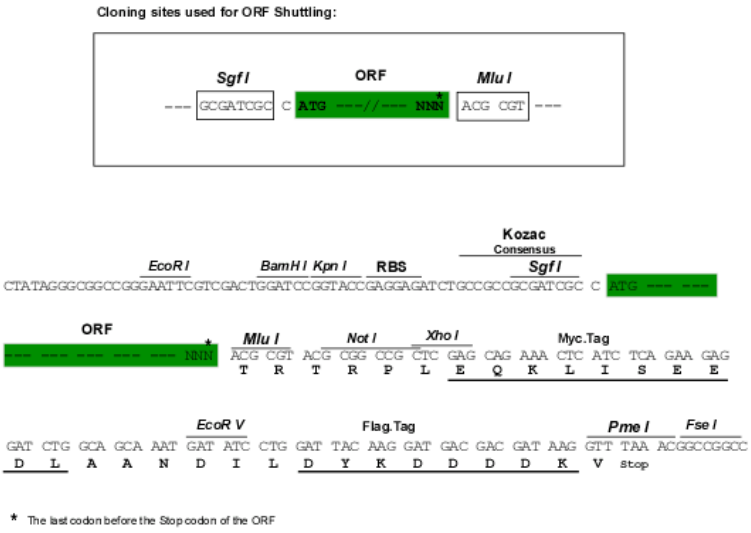
MLTRLFSEPGLLSDVPKFASWGDGEDDEPRSDKGDAPPPPPPAPGPGAPGPARAAKPVPLRGEEGTEATL
AEVKEEGELGGEEEEEEEEEEGLDEAEGERPKKGGPKKRKMTKARLERSKLRRQKANARERNRMHDLNAA
LDNLRKVVPCYSKTQKLSKIETLRLAKNYIWALSEILRSGKRPDLVSYVQTLCKGLSQPTTNLVAGCLQL
NSRNFLTEQGADGAGRFHGSGGPFAMHPYPYPCSRLAGAQCQAAGGLGGGAAHALRTHGYCAAYETLYAA
AGGGGASPDYNSSEYEGPLSPPLCLNGNFSLKQDSSPDHEKSYHYSMHYSALPGSRPTGHGLVFGSSAVR
GGVHSENLLSYDMHLHHDRGPMYEELNAFFHN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6216_a01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006160

ORF Size: 1146 bp

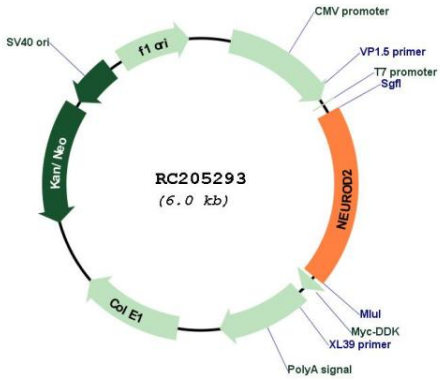
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

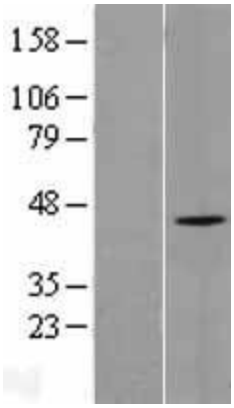
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_006160.2, NP_006151.2
RefSeq Size:	3048 bp
RefSeq ORF:	1149 bp
Locus ID:	4761
UniProt ID:	Q15784
Cytogenetics:	17q12
Domains:	HLH
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors
MW:	41.3 kDa
Gene Summary:	This gene encodes a member of the neuroD family of neurogenic basic helix-loop-helix (bHLH) proteins. Expression of this gene can induce transcription from neuron-specific promoters, such as the GAP-43 promoter, which contain a specific DNA sequence known as an E-box. The product of the human gene can induce neurogenic differentiation in non-neuronal cells in Xenopus embryos, and is thought to play a role in the determination and maintenance of neuronal cell fates. [provided by RefSeq, Jul 2008]

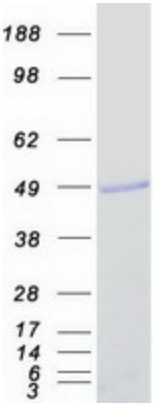
Product images:



Circular map for RC205293



Western blot validation of overexpression lysate (Cat# [LY416831]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205293 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NEUROD2 protein (Cat# [TP305293]). The protein was produced from HEK293T cells transfected with NEUROD2 cDNA clone (Cat# RC205293) using MegaTran 2.0 (Cat# [TT210002]).