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Product datasheet for RG205293

NEUROD2 (NM_006160) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEUROD2 (NM_006160) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NEUROD2
Synonyms:	bHLHa1; DEE72; EIEE72; NDRF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG205293 representing NM_006160
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

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

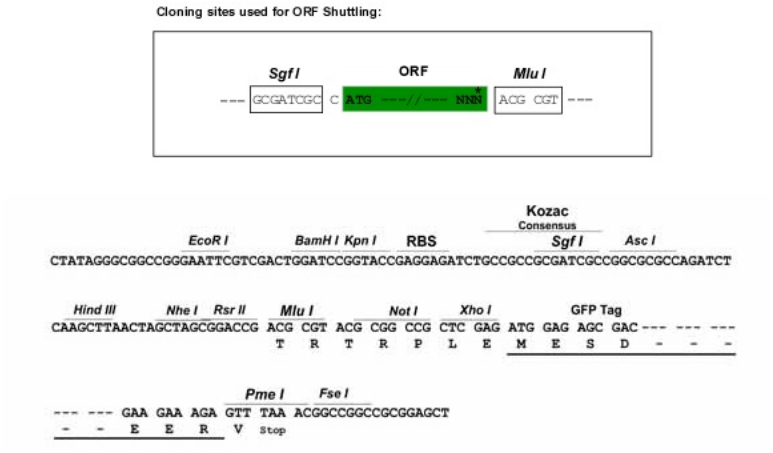
>RG205293 representing NM_006160
Red=Cloning site Green=Tags(s)

MLTRLFSEPGLLSDVPKFASWGDGEDDEPRSDKGDAPPPPPPAPGPGAPGPARAAKPVPLRGEEGTEATL
AEVKEEGELGGEEEEEEEEEEGLDEAEGERPKKGGPKKRKMTKARLERSKLRRQKANARERNRMHDLNAA
LDNLRKVVPCYSKTQKLSKIETLRLAKNYIWALSEILRSGKRPDLVSYVQTLCKGLSQPTTNLVAGCLQL
NSRNFLTEQGADGAGRFHGSGGPFAMHPYPYPCSRLAGAQCQAAGGLGGGAAHALRTHGYCAAYETLYAA
AGGGGASPDYNSSEYEGPLSPPLCLNGNFSLKQDSSPDHEKSYHYSMHYSALPGSRPTGHGLVFGSSAVR
GGVHSENLLSYDMHLHHDRGPMYEELNAFFHN

TRTRPLE - GFP Tag - V

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

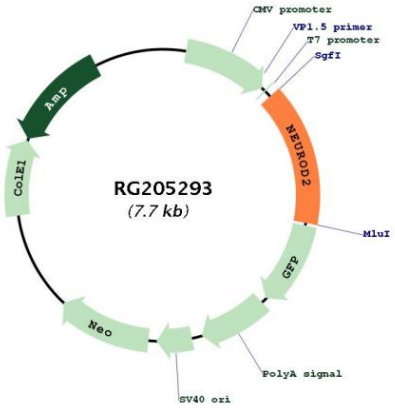
Cytogenetics: 17q12

Domains: HLH

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

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 RG205293