

Product datasheet for **RR206129**

Neurod2 (NM_019326) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neurod2 (NM_019326) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Neurod2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR206129 representing NM_019326 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**

ATGCTGACCCGCTGTTTCAGCGAGCCCGCCTCCTCTCGGACGTGCCAAGTTCGCCAGCTGGGGCGACG
GCGACGACGAGCCGAGGAGCGACAAGGGCGACGCGCCGCCGAGCCTCCTCTGCTCCAGGGTCAGG
GGCTCCAGGACCCGCTCGGGCCACCAAGCCAGTGTCTCTTCGTGGAGAAGAGGTCCCTGAACCCACGTTG
GCTGAGGTCAAGGAGGAAGGAGAGCTGGGCGGCGAGGAGGAGGAGGAAGAGGAGGAGGAGGAAGGAGG
ACGAGGGGGAAGGCGAGCGGCCAAGAAGCGCGGGCCGAAGAAACGCAAGATGACCAAGCGCCCTGGA
GCGCTCCAAGCTGCGGGACAGAAGGCCAACGCGGGGAGCGCAACCGCATGCACGACCTGAACGCGGCG
CTGGACAACCTGCGCAAGGTGGTGCCCTGCTACTCCAAGACGCAAGCTGTCCAAGATCGAAACGCTGC
GCCTGGCCAAGAATACTACTGCGCTCTCTCGGAGATCTTGCCTCCGGGAAGCGGCCGGATCTGGTGTC
CTACGTGCAGACTCTGTGCAAGGGGCTGTACAGCCCACCACGAATCTGGTGGCCGGCTGCCTGCAGCTG
AACTCTCGTAACCTCCTCACGGAGCAGGGCGCGGACGGCGCGGCCGTTTACGGCTCGGGTGGCCCGTT
CCGCCATGCATCCGTACCCGTACCCGTGCTCGGCCTAGCAGGCGACAGTGCCAGGCGGCCGGCGCTGG
GCGGAGGCGCGGCACGCTGCGGACCCAGGCTACTGCGCCGCTACGAGACGCTGTACGCGGCGGCG
GGTGGCGGCGGCCAGCCCGACTACAACAGCTCCGAGTACGAGGGTCCGCTCAGTCCCGGCTCTGTCT
TCAACGGCAACTTCTCGCTCAAGCAGGACTCGTCCCCGATCACGAGAAGAGCTACCACTACTCTATGCA
CTACTCGGCGCTGCCCGCTCCCGGCCCGGGCCACGGGCTGGTCTTTCGGCTCGTCCGGCTGCGCGGG
GGCGTCCACTCGGAGAATCTCTTGTCTTACGATATGCACCTTACCACGATCGGGGCCCATGTACGAGG
AGCTCAACGCGTTTTTCCATAAC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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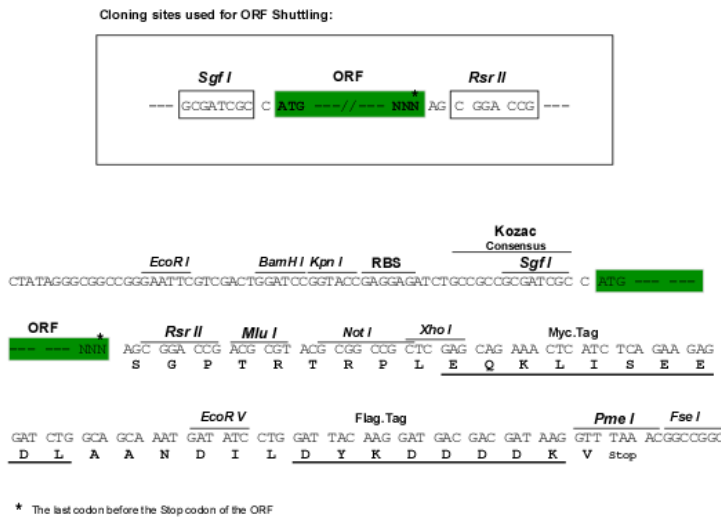
Protein Sequence: >RR206129 representing NM_019326
 Red=Cloning site Green=Tags(s)

MLTRLFSEPGLLSDVPKFASWGDGDDDEPRSDKGDAPPQPPAPGSGAPGPARATKPVSLRGEEVPEPTL
 AEVKEEGELGGEEEEEEEEEGLEAEGERPKKRGPKKRKMTKARLERSKLRQKANARERNRMHDLNAA
 LDNLRKVVPCYSKTQKLSKIETLRLAKNYIWALSEILRSGKRPDLVSYVQTLCKGLSQPTTNLVAGCLQL
 NSRNFLTEQGADGAAAF TARVARSAMHPYPYPCSRLAGDSARRPAAGRRRRGARLRTHGYCAAYETLYAAA
 GGGGASPDYNSSEYEGPLSPPLCLNGNFSLKQDSSPDHEKSYHYSMHYSALPGSRPAGHGLVFGSSAVRG
 GVHSENLLSYDMHLHHDGRGPMYEELNAFFHN

SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_019326

ORF Size: 1143 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.

RefSeq: [NM_019326.1](#), [NP_062199.1](#)

RefSeq Size: 1843 bp

RefSeq ORF: 1146 bp

Locus ID: 54276

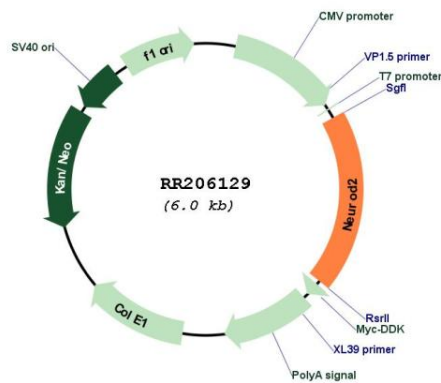
UniProt ID: [Q63689](#)

Cytogenetics: 10q31

MW: 41.8 kDa

Gene Summary: basic helix-loop-helix (bHLH) protein; may have a role in neurogenesis [RGD, Feb 2006]

Product images:



Circular map for RR206129