

Product datasheet for **RG222464**

NEUROD4 (NM_021191) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NEUROD4 (NM_021191) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NEUROD4
Synonyms: ATH-3; ATH3; Atoh3; bHLHa4; MATH-3; MATH3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG222464 representing NM_021191
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAAAACTTTTGTAAAATCCAAGGAGATGGGAGAGCTAGTCAACACACCATCCTGGATGGATAAAG
GTCTGGGCTCCAAAATGAGGTGAAGGAGGAAGAGAGCAGACCAGGACTTATGGGATGCTCAGCAGCTT
AACTGAAGAGCATGACAGTATTGAGGAAGAAGAAGAGGAAGAAGATGGGGAGAACTAAGAGAAGG
GGTCCCAAGAAAAGAAGATGACCAAAGCTCGCCTTGAGAGATTCAGGGCTCGAAGAGTCAAGGCTAATG
CCAGAGAACGGACCCGGATGCATGGCCTGAATGACGCCCTGGATAACCTGAGGCGAGTCATGCCATGCTA
CTCTAAAACCCAAAACCTTTCCAAGATAGAGACTCTTAGACTGGCCAGGAAGTATATTTGGGCTTTATCT
GAAGTCTTGAGACTGGCCAGACACCTGAAGGGAAGGCTTTGTGGAGATGCTGTGTAAGGGCTCTCTC
AGCCACAAAGCAACCTGGTGGCTGGATGTCTCAAAGTGGGCCCTCAGTCTGTCTCCTGGAGAAGCACGA
GGATAAATCTCCTATTTGTGGCTCTGCCATCTCTGTCCACAACCTCAACTATCAGTCTCCGGGGCTTCT
AGCCCTCCTTATGGTCATATGGAACACATCTCCTTCACTCAAGCCCAAGTATCAAGAGTTTGGGAG
AATCGTCTTTGGGAGCCATCTGCCTGACTGCAGTACACCCCTTATGAGGGCCCACTCACTCCACCCCT
GAGCATCAGTGGGAACCTCTCCTGAAGCAAGATGGGTCTCCTGACCTAGAAAAATCCTACAGCTTCATG
CCACATTACCTTCTTCAAGTCTAAGCTCAGGGCATGTGCATTCAACTCCTTTTCAGGCTGGTACCCCTC
GTTATGATGTTCTATAGACATGCCTATGATTCTACCCCATCATGGTATTGGGACCCAACTCAATAC
AGTCTTCACTGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222464 representing NM_021191
 Red=Cloning site Green=Tags(s)

MSKTFVKSEKMGELVNTPSWMDKGLGSQNEVKEEESRPGTYGMLSSLTEEHDSIEEEEEEEEDGEKPKRR
 GPKKKKMTKARLERFRARRVKANARERTRMHGLNDALDNLRRVMPYCYSKTQKLSKIETLRLARNYIWALS
 EVLETGQTPGKGFVEMLCCKLSQPTSNLVAGCLQLGPQSVLLEKHEDKSPICGSAISVHNFNYQSPGLP
 SPPYGHMETHLLHLKPQVFKSLGESSFGSHLPDCSTPPYEGPLTPPLSISGNFSLKQDQDGPDLKSYSFM
 PHYPSSSLSSGHVHSTPFQAGTPRYDVPIDMSYDSYPHHGIGTQLNNTVFTE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021191

ORF Size: 993 bp

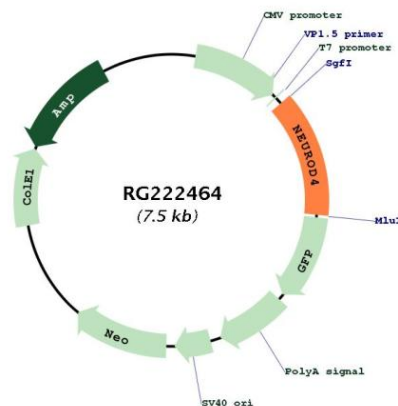
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none">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_021191.1 , NP_067014.1
RefSeq Size:	1481 bp
RefSeq ORF:	996 bp
Locus ID:	58158
UniProt ID:	Q9HD90
Cytogenetics:	12q13.2
Domains:	HLH
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	Probably acts as a transcriptional activator. Mediates neuronal differentiation. Required for the regulation of amacrine cell fate specification in the retina (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG222464