

## **Product datasheet for RC210963**

## nkx6.2 (NKX6-2) (NM\_177400) Human Tagged ORF Clone

## **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** nkx6.2 (NKX6-2) (NM\_177400) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: nkx6.2

Synonyms: GTX; NKX6.2; NKX6B; SPAX8

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC210963 representing NM\_177400

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$ 

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC210963 representing NM\_177400

Red=Cloning site Green=Tags(s)

MDTNRPGAFVLSSAPLAALHNMAEMKTSLFPYALQGPAGFKAPALGGLGAQLPLGTPHGISDILGRPVGA AGGGLLGGLPRLNGLASSAGVYFGPAAAVARGYPKPLAELPGRPPIFWPGVVQGAPWRDPRLAGPAPAGG VLDKDGKKKHSRPTFSGQQIFALEKTFEQTKYLAGPERARLAYSLGMTESQVKVWFQNRRTKWRKRHAAE MASAKKKQDSDAEKLKVGGSDAEDDDEYNRPLDPNSDDEKITRLLKKHKPSNLALVSPCGGGAGDAL

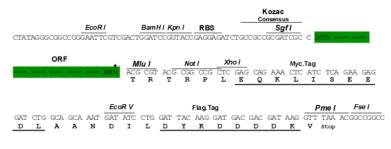
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV** 

Chromatograms: <a href="https://cdn.origene.com/chromatograms/mg3187">https://cdn.origene.com/chromatograms/mg3187</a> d04.zip

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_177400

ORF Size: 831 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: <u>NM 177400.2</u>

RefSeq Size: 834 bp
RefSeq ORF: 834 bp
Locus ID: 84504
UniProt ID: Q9C056
Cytogenetics: 10q26.3

**Protein Families:** Transcription Factors

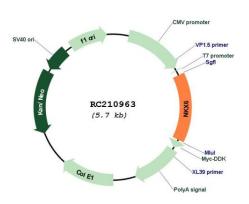
**MW:** 29.1 kDa

**Gene Summary:** Transcription factor with repressor activity involved in the regulation of axon-glial interactions

at myelin paranodes in oligodendrocytes. Binds to the consensus DNA sequence 5'-(A/T)TTAATGA-3'. In oligodendrocytes, binds to MBP and PLP1 promoter regions.

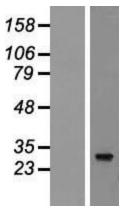
[UniProtKB/Swiss-Prot Function]

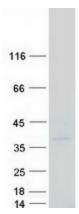
## **Product images:**



Circular map for RC210963







Western blot validation of overexpression lysate (Cat# [LY406150]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210963 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified NKX6-2 protein (Cat# [TP310963]). The protein was produced from HEK293T cells transfected with NKX6-2 cDNA clone (Cat# RC210963) using MegaTran 2.0 (Cat# [TT210002]).