

Product datasheet for **RC200613**

ZNF24 (NM_006965) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF24 (NM_006965) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF24
Synonyms:	KOX17; RSG-A; Zfp191; ZNF191; ZSCAN3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200613 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGCACAGTCAGTGAAGAAGATTCAATACTTATCATCCCACTCCAGATGAAGAGGAAAAATTC
TGAGAGTGAAGTTGGAGGAGGATCCTGATGGCGAAGAGGGATCAAGTATCCCCTGGAACCATCTCCAGA
CCCAGAGATTTCCGACAGCGATTAGGAGTTGGATACCAGGATCACCTGGGCCCGTGAGGCTGTG
AGCCAGCTCCGAGAACTTGGCGTCTGTGGCTCAGGCCAGAGACGCACAAAAAGAACAAATCTTGAGC
TGGTAGTCTGGAGCAGTTTGTGCCATCCTACCCAAAGAGCTACAGACTGGGTTGAGATCATCATCC
AGAGAATGGAGAGGAGGCAGTGACAGTCTGGAGATTTGGAGAGTGAACCTTGATGACCCCTGGACAACCG
GTTTCTCTCCGTCGACGAAAACGGGAAGTACTAGTAGAAGACATGGTATCTCAAGAAGAAGCTCAGGGAT
TACCAAGTTCTGAGCTTGTGCTGTGGAGAACCAGCTCAAGTGGGCATCCTGGGAGCTCCATTCCCTAAG
GCACTGTGATGATGATGGTAGGACTGAAAATGGAGCACTAGCTCCAAAGCAGGAGCTTCTTCAGCATT
GAATCCCATGAAGTTCTGGCACTCTCAGTATGGGTGTTCTCAAATTTTAAATATGGAGAAACCTGTT
TCCCAAGGGCAGGTTTGAAGAAAGAGAAATCCCTCTCGAAAGAAACAATATATGTGATGAATGTGG
AAAACACTTCAGTCAGGGCTCAGCCCTATTCTTCATCAAAGAATTCACAGTGGGAGAAACCTTATGGA
TGTGTTGAGTGTGGAAAGCATTAGCCGAAGTCCATTCTGTGCAACACCAGAGAGTCCACACTGGAG
AAAAACCTTACAAATGTCTTGAATGTGGGAAAGCCTTTAGCCAGAATTCGGGGCTTATTAATCATCAGAG
AATCCATACTGGGAGAAACCTTATGAATGCGTTCAGTGTGGAAATCGTATAGTCAAAGCTCAAATCTT
TTAGACATCAGAGAAGACACAATGCAGAAAACTTCTGAATGTTGTGAAAGTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC200613 protein sequence
Red=Cloning site Green=Tags(s)

MSAQSVEEDSILIIPTDDEEKILRVKLEEDPDGEEGSSIPWNHLPDPEIFRQFRQFGYQDSPGPREAV
 SQLRELRLWLRPETHTKEQILELVLEQFVAILPKELQTVWRDHPENGEAAVTVLEDLESELDDPGQP
 VSLRRRKREVLVEDMVSQEEAAGLPSSSELDAVENQLKQWASWELHSLRHCCDDGRTENGALAPKQELPSAL
 ESHEVPGTLSMGVPIFKYGETCFPKGRFERKRNPSSRKKQHICDECGKHFSGQSALILHQRTHSSEKPYG
 CVECGKAFSRSSILVQHQRVHTGEKPYKCLECGKAFSQNSGLINHQRHTGEKPYECVQCCKSYSSQSSNL
 FRHQRRHNAEKLINVVKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6081_f09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_006965

ORF Size: 1104 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_006965.4](#)

RefSeq Size: 6311 bp

RefSeq ORF: 1107 bp

Locus ID: 7572

UniProt ID: [P17028](#)

Cytogenetics: 18q12.2

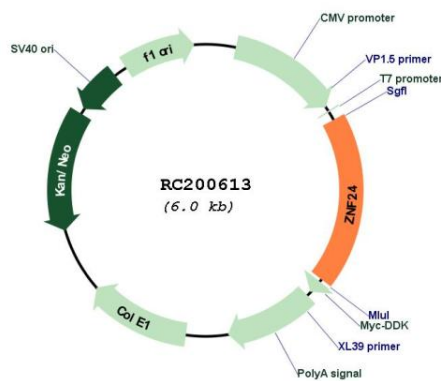
Domains: LER, zf-C2H2

Protein Families: Transcription Factors

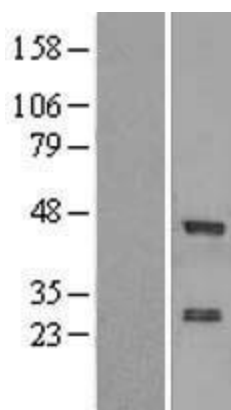
MW: 42.1 kDa

Gene Summary: Transcription factor required for myelination of differentiated oligodendrocytes. Required for the conversion of oligodendrocytes from the premyelinating to the myelinating state. In the developing central nervous system (CNS), involved in the maintenance in the progenitor stage by promoting the cell cycle. Specifically binds to the 5'-TCAT-3' DNA sequence (By similarity). Has transcription repressor activity in vitro.[UniProtKB/Swiss-Prot Function]

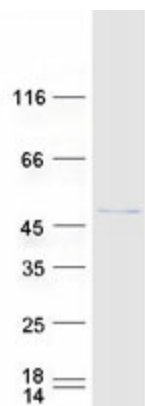
Product images:



Circular map for RC200613



Western blot validation of overexpression lysate (Cat# [LY416290]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200613 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ZNF24 protein (Cat# [TP300613]). The protein was produced from HEK293T cells transfected with ZNF24 cDNA clone (Cat# RC200613) using MegaTran 2.0 (Cat# [TT210002]).