

Product datasheet for RC210985

VAX1 (NM_199131) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: VAX1 (NM_199131) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: VAX1
Synonyms: MCOPS11
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC210985 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCCGGAAACCAGACAAAAATGGACGTTTCGATGCCACTCGGACGCCGAGGCTGCCCGGTCTCGAAGA
ACGCGCACAAAGGAGAGTCGGGAGAGCAAGGGCGCGAGGGGAACCTCCAGCCGCCTTCTCAAGGAGCC
GCAGGGCGCCTTCTCAGCGTCGGGCGTGCTGAGGATTGTAACAAAAGTAAATCCAATTCGCAGCGGAC
CCGGATTACTGCCCGGATCCTGGTCCGAGATGCCAAGGGTCCATCCGAGAGATCATCCTGCCAAGG
GCCTGGACTTGGACCGGCTAAGAGGACGCGCACGTCCTCACCGCGGAGCAGCTCTATCGCTGGAGAT
GGAGTTCCAGCGCTGCCAGTACGTGGTGGCCCGGAGAGGACCGAGCTCGCCCGGAGCTTAACCTCTCC
GAGACCCAGGCAAATAGTGAAGAAAATAATGAACGATTCAAACGCGGGATAAAAAACAAAAGAAGAAAA
GGAAGAAAAGAGCCAGCAAATGATGAGTCTCGCGTGGGGACTCCGGGGGAGAGGGTGGCAGCCCTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC210985 protein sequence
Red=Cloning site Green=Tags(s)

MFGKPKDMVVRCHSDAEAAARVSKNAHKESRESKGAEGNLPAAFLKEPQGAFSASGAAEDCNKSKSNSAAD
PDYCRRLVVRDAKGSIREIILPKGLDLDRPKRTRTSFTAELYLREMEFQRCQYVVGRETELARQLNLS
ETQANSEENNERFKRGIKKQKKRKKKEPANDESRRGDSGGRGWQPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6371_e11.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_199131

ORF Size: 558 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_199131.3](#)

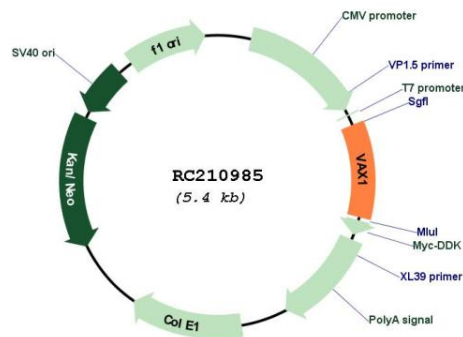
RefSeq Size: 4494 bp

RefSeq ORF: 561 bp

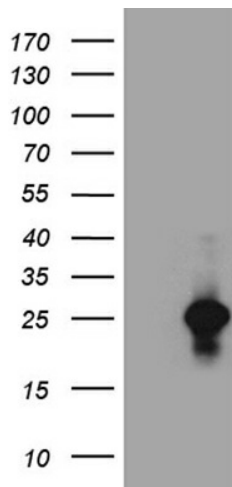
Locus ID: 11023
UniProt ID: [Q5SQQ9](#)
Cytogenetics: 10q25.3
Protein Families: Transcription Factors
MW: 21 kDa

Gene Summary: This gene encodes a homeo-domain containing protein from a class of homeobox transcription factors which are conserved in vertebrates. Genes of this family are involved in the regulation of body development and morphogenesis. The most conserved genes, called HOX genes are found in special gene clusters. This gene belongs to the VAX subfamily and lies in the vicinity of the EMX homeobox gene family. Another member of VAX family is located on chromosome 2. The encoded protein may play an important role in the development of anterior ventral forebrain and visual system. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

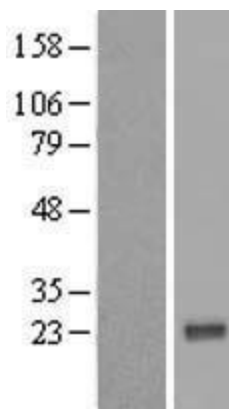
Product images:



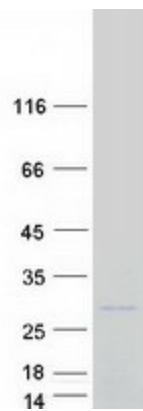
Circular map for RC210985



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY VAX1 (Cat# RC210985, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-VAX1 (Cat# [TA811439])(1:2000). Positive lysates [LY404744] (100ug) and [LC404744] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY404744]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210985 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified VAX1 protein (Cat# [TP310985]). The protein was produced from HEK293T cells transfected with VAX1 cDNA clone (Cat# RC210985) using MegaTran 2.0 (Cat# [TT210002]).