

Product datasheet for **RC225487**

VAX1 (NM_001112704) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VAX1 (NM_001112704) 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:	>RC225487 representing NM_001112704 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCCGGAAACCAGACAAAATGGACGTTTCGATGCCACTCGGACGCCGAGGCTGCCCGGTCTCGAAGA
ACGCGCACAAAGGAGAGTCGGGAGAGCAAGGGCGCGGAGGGGAACCTCCAGCCGCCTTCTCAAGGAGCC
GCAGGGCGCCTTCTCAGCGTCGGGCGTGCTGAGGATTGTAACAAAAGTAAATCCAATTCGCAGCGGAC
CCGGATTACTGCCGCCGATCCTGGTCCGAGATGCCAAGGGTCCATCCGAGAGATCATCCTGCCAAGG
GCCTGGACTTGGACCGGCTAAGAGGACGCGCACGTCCTCACCGCGGAGCAGCTCTATCGGCTGGAGAT
GGAGTTCAGCGCTGCCAGTACGTGGTGGCCGCGAGAGGACCGAGCTCGCCCGGAGCTTAACCTCTCC
GAGACCCAGGTGAAGTCTGGTTCAGAACCGGCGCACCAAGCAGAAGAAGGACCAAGGGCAAGGACTCGG
AGCTACGCTCGGTGGTGTTCGGAGACCGCGCCACGTGCAGCGTGCTACGGCTGCTGGAGCAGGGCCGCT
GTTGTCCGCGCCCGGCTGCCTGCGCTGCTGCCGCTTGCGCCACGGGCGCTCTCGGCTCAGCGTGCGC
GGGCCAGCTTGGCCGCCCTGGGCGCGGGCGCGCTGCAGGCTCGGCCCGCCAGCCGCCCGCCGCCGCC
CGGGCCAGCGGGGCGTGCATCCCCGCACCCCGCGGCTGTGGGCGGTGCTCCAGGTCCGGGCGCCGCCG
GCCGGGGGATTGCACGCAGGCGCCCGGCCCGGGCCACAGCCTTTACGCTGCCGGTGCCTCGTG
CTCGGCTCCGTCGCCAGCCGCTGCTCCTCCGCCCGTTAACAATGGCTGGTTCGCTAGCTGGGAATTTGC
AAGAACTCTCCGCCGATATCTGAGCTCCTCGGCTTCGAGCCTTACTCCCGACCAACAATAAAGAAGG
GGCCGAGAAAAAGCGCTGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC225487 representing NM_001112704
Red=Cloning site Green=Tags(s)

MFGKPKDKMDVRCHSDAEAAARVSKNAHKESRESKGAEGNLPAAFLKEPQGAFSASGAAEDCNKSKSNSAAD
 PDYCRRILVRDAKGSIREIILPKGLDLDRPKRTRTSFTAQLYRLEMEFQRCQYVVGRETELARQLNLS
 ETQYKVFQNRRTKQKKDQKDELSRVVSETAATCSVLRLLLEQGRLSPPGLPALLPPCATGALGSALR
 GPSPALGAGAAAGSAAAAAAGPAGAAASPHPPAVGGAPGPGPAGPGLHAGAPAAGHSLFSLPVPSL
 LGSVASRLSSAPLTMAGSLAGNLQELSARYLSSSAFEPYSRTNNKEGAEKKALD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8052_h12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001112704

ORF Size: 1002 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_001112704.2](#)

RefSeq ORF: 1005 bp

Locus ID: 11023

UniProt ID: [Q5SQQ9](#)

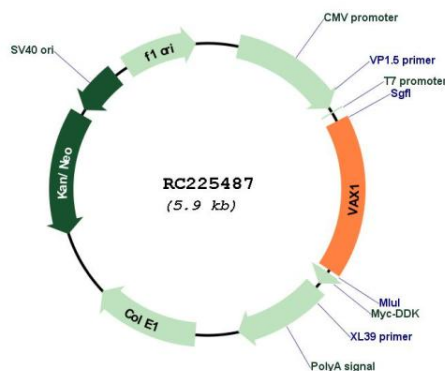
Cytogenetics: 10q25.3

Protein Families: Transcription Factors

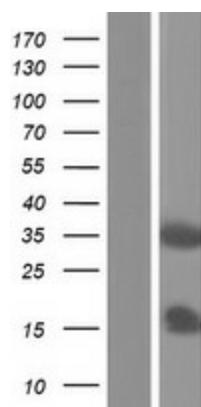
MW: 34.5 kDa

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 RC225487



Western blot validation of overexpression lysate (Cat# [LY426368]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225487 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).