

Product datasheet for **RG210985**

VAX1 (NM_199131) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: VAX1 (NM_199131) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: VAX1
Synonyms: MCOPS11
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG210985 representing NM_199131
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTCCGGGAAACCAGACAAAATGGACGTTTCGATGCCACTCGGACGCCGAGGCTGCCCGGTCTCGAAGA
 ACGCGCACAAAGGAGAGTCGGGAGAGCAAGGGCGCGGAGGGGAACCTCCAGCCGCCTTCTCAAGGAGCC
 GCAGGGCGCCTTCTCAGCGTCGGGCGTGCTGAGGATTGTAACAAAAGTAAATCCAATTCGCAGCGGAC
 CCGGATTACTGCCCGGATCCTGGTCCGAGATGCCAAGGGTCCATCCGAGAGATCATCCTGCCAAGG
 GCCTGGACTTGGACCGGCTAAGAGGACGCGCACGTCTTACC CGGAGCAGCTCTATCGGCTGGAGAT
 GGAGTTCCAGCGCTGCCAGTACGTGGTGGCCCGGAGAGGACCGAGCTCGCCCGGAGCTTAACCTCTCC
 GAGACCCAGGCAAATAGTGAAGAAAATAATGAACGATTCAAACGCGGGATAAAAAACAAGAAAGAAA
 GGAAGAAAGAGCCAGCAAATGATGAGTCTCGCGTGGGGACTCCGGGGGAGAGGGTGGCAGCCCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG210985 representing NM_199131
 Red=Cloning site Green=Tags(s)

MFGKPKMDVRCHSDAEAAARVSKNAHKESRESKGAEGNLPAAFLKEPQGAFSASGAAEDCNKSKSNSAAD
 PDYCRRLVLRDAKGSIREIILPKGLDLDRPKRTRTSFTAQLYRLEMEFQRCQYVVGRETELARQLNLS
 ETQANSENNERFKRGIKKQKKRKKKEPANDESRRGDSGGRGWQPL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-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.

RefSeq: [NM_199131.3](#)

RefSeq Size: 4493 bp

RefSeq ORF: 561 bp

Locus ID: 11023

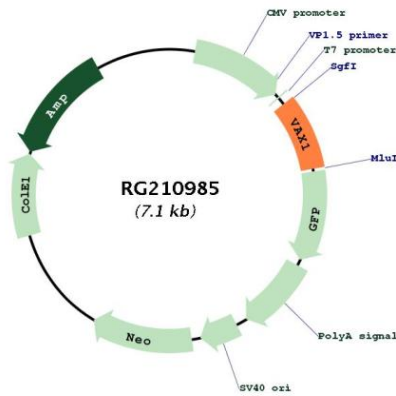
UniProt ID: [Q5SQQ9](#)

Cytogenetics: 10q25.3

Protein Families: Transcription Factors

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 RG210985