

Product datasheet for MR222145

Vax1 (NM_009501) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vax1 (NM_009501) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vax1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222145 representing NM_009501 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTCGGGAAACCAGACAAAATGGACGTCGGTCCACTCGGACACCGAGGCCGCCAGGGTCTCGAAGA
ACGCGCACAAAGGAGACCGGGAGATCAAGGGCGCCGAGGGGAGCCTTCCGGCCGCCTTCCTCAAGGAGCC
GCAGGGCGCCTTTCCGGGTCTGGCGCTTCGGAAGATTGTAACAAAAGTAAATCCAATTCCTCAGCGGAC
CCAGATTACTGTCGCGGATCCTAGTCCGAGATGCCAAGGGTCTATCCGAGAAATCATCCTGCCCAAAG
GCTTGGATCTGGACCGGCCAAGAGGACTCGCACGTCTTACCAGGAGCAGCTCTACAGGCTGGAGAT
GGAGTTCAGCGTTGCCAATACGTGGTGGCCGGGAGAGAACCAGACTGGCTCGGCAGCTCAATCTCTCT
GAGACCCAGGTGAAGGTCTGGTCCAGAATCGGCGGACTAAGCAGAAGAAGGACCAGGGCAAGGACTCGG
AGCTGCGCTCGGTGGTGTGCGGAGACCGCCGACGTGCAGCGTGTGCGGCTCTTGGAGCAAGGCCGCT
GTTGTGCGCTCCCGGGCTGCCGCCTTGTGCCGCCCTGTGCCACTGGCGCTCTAGGCTCGGCGTTGCGC
GGGCCAGCCTCCCGGCCCTGGGTGCAGGCGTGCAGGCGGCTCCGCGGCTGCCGCCGCGCTGCCGCC
CCGCCACTGCCCCGGTCCCGCAGGCGCGGCTCCAGCACCAGCCGGCCGTGGGCGGCGCTCCCGGCC
AGGGCTGCAGGGCCGGGAGGACTGCACGCGGGAGCACCAGCTGCCAGCCACGGTCTCTCAGCCTGCCG
GTGCCGTGCTAGGCTCTGTGCCAGCGCCTGTCTCCGCCCGGTTGACGATGGCTGGTTCGCTAG
CCGGGAATTTGCAAGAACTCTCAGCCCGTTACCTGAGCTCCTCGGCCTTCGAGCCTTACTCCCGACCAA
CAATAAAGAAGGGCCGAGAAAAAGCGCTGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222145 representing NM_009501
Red=Cloning site Green=Tags(s)

MFGKPKDKMDVRCHSDTEAARVSKNAHKESREIKGAEGSLPAAFLKEPQGAFSGSGASEDCNKSXSNSSAD
 PDYCRRILVRDAKGSIREIILPKGLDLDRPKRTRTSFTAQLYRLEMEFQRCQYVVGRETELARQLNLS
 ETQYKVFQNRRTKQKDKQKDELSRVVSETAATCSVLRLLLEQGRLLSPPGLPALLPPCATGALGSALR
 GPSPALGAGAAAGSAAAAAAAAAATAPGPAGAAASQHQPAVGGAPGPGPAGPAGGLHAGAPTASHGLFSLP
 VPSLLGSVASRLSSAPLTMAGSLAGNLQELSAARYLSSSAFEPYSRTNNKEGAEKKALD

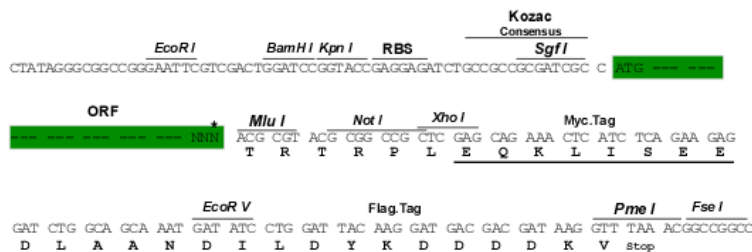
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1660_g07.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_009501

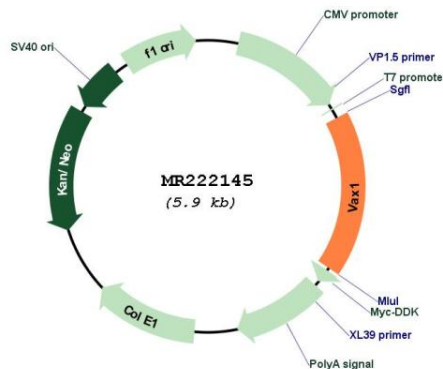
ORF Size: 1014 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none"> 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:	<u>NM_009501.3</u>
RefSeq Size:	1017 bp
RefSeq ORF:	1017 bp
Locus ID:	22326
UniProt ID:	<u>Q2NKL2</u>
Cytogenetics:	19 54.61 cM
MW:	35.6 kDa
Gene Summary:	This gene encodes a member of the EMX homeobox protein family. The encoded protein functions as a transcription factor which is important in the development of anterior ventral forebrain and visual system. Disruption of this gene causes impairment in the developing forebrain, where the encoded protein is necessary for axon guidance and major tract formation. [provided by RefSeq, Dec 2015]

Product images:



Circular map for MR222145