

Product datasheet for **RR210108**

Vax1 (NM_022636) Rat Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Vax1 (NM_022636) Rat 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: | >RR210108 representing NM_022636 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCCGGGAAAACAGACAAAATGGACGTCCGGTGCCACTCGGACACCGAGGCCGCCAGGGTATCGAAGA
ACGCGCACAAAGGAGACCGAGAGATCAAGGGCGCCGAGGGGAGCCTTCCGGCTGCCTTCCCAAGGAGCC
GCAGGGCGCCTTTTCGGCGTCTGGCGCTCCGAAGATTGTAACAAAAGTAAATCCAATTCCTCAGCAGAC
CCAGATTACTGCCGCGGATCCTAGTCCGAGATGCCAAGGGTCTATCCGAGAAATCATCCTGCCAAGG
GCTTGGACCTGGACCGGCCAAGAGGACACGCAGTCTTACCAGGAGCAGCTCTACAGACTGGAGAT
GGAGTTCAGCGTTGCCAATATGTAGTGGCCGGGAGAGAACCAGAGCTGGCTCGGCAGCTCAATCTTTCT
GAAACCCAGGTGAAGGTCTGGTCCAGAATCGGCGGACCAAGCAGAAGAAGGACCAGGGTAAAGACTCGG
AGCTGCGCTCGGTGGTGTGCGGAGACCGCCACGTGCAGCGTGTGCGGCTGTTGGAGCAAGGCCGCT
GTTGTGCGCTCCCGGGCTGCCGCCTTGTGCGCCCTGTGCTACAGGCGCTCTGGGCTCCGCGTTGCGC
GGGCCAGCCTCCCGGCCCTGGGTGCAGGCGTGTGCGGGCTCCGCGCTGCTGCCGCCCGCCGCCA
CTGCCCGGGTCCGGCCGGCGGGCTCCAGCATCCGCCAGCCGTGGGCGGCGCTCCCGCCCCGGGCC
TGCAGGGCCCGGGGACTGCACGCGGGAGCTCCGACAGCCAGCCACGGTCTTTACGCTGCCGGTGGCC
TCGCTGTAGGCTCTGTGCCAGCGCCTGTCTCCGCCCGTTGACGATGGCTGGTTTCGCTAGCCGGGA
ATTTGCAAGAAGTCTCAGCCGTTACTGAGCTCCTCGGCCCTTCGAGCCTTACTCCGGACCAACAATAA
AGAAGGGGCCGAGAAAAAGCGCTGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR210108 representing NM_022636
Red=Cloning site Green=Tags(s)

MFGKTDKMDVRCHSDTEAARVSKNAHKESREIKGAEGSLPAAFLKEPQGAFSASGASEDCNKSKSNSSAD
 PDYCRRLVYRDAKGSIREIILPKGLDLDRPKRTRTSFTAQLYRLEMEFQRCQYVVGRETELARQLNLS
 ETQYKVFQNRRTKQKDKQKDSSELRSVVSETAATCSVLRLLEQGRLSPGPGLPALLPPCATGALGSALR
 GPSPALGAGAAAAGSAAAAAATAATGAGAAAGSQAHPAVGAPGPGPAGPGLHAGAPTASHGLFSLPVP
 SLLGSVASRLSSAPLTMAGSLAGNLQELSAARYLSSSAFEPYSRTNNKEGAEKKALD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_022636

ORF Size: 1008 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_022636.1](#), [NP_072158.1](#)

RefSeq Size: 1011 bp

RefSeq ORF: 1011 bp

Locus ID: 64571

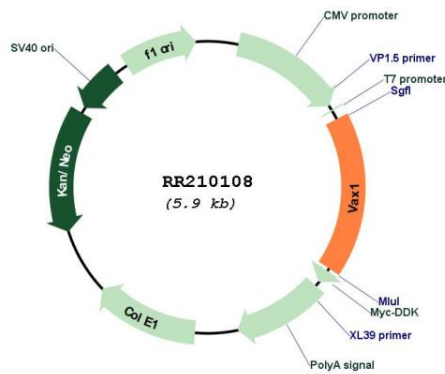
UniProt ID: [Q9JMQ0](#)

Cytogenetics: 1q55

MW: 35 kDa

Gene Summary: mouse homolog is a homeodomain protein necessary for axon guidance [RGD, Feb 2006]

Product images:



Circular map for RR210108