

Product datasheet for MR229606

Vsx2 (NM_001301427) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Vsx2 (NM_001301427) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Vsx2
Synonyms: Chx10; Hox-1; Hox-10; Hox1; Hox10; or
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229606 representing NM_001301427
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACGGGGAAAGCGGGGAAGCGCTGAGCAAGCCAAATCCGAGACAGTGGCCAAGGTACCTCGGGGG
 GCGCCCCGGCCAGGTGCACAGGGTTCGGCATCCAGGAGATCCTAGGCTTGAACAAGGAGCCTCCCAGCTC
 CCACCCCGGGCTGCCCTCGACGGCCTGGCCCCGGGCATTTGTTAGCTGCGCGCTCCGTTCTCAGCCCG
 GCAGGAGTGGGCAGCATGGGGCTGCTGGGGCCCGGGGACTTCCCGGCTTCTACACACAGCCACCTTCT
 TGGAAGTGCTGTCCGATCCGCAGAGCGTCCACTTGCAGCCACTAGGCAGAGCGTCCGGGGCCGCTGGACAC
 CAGCCAGACGGCCAGCTCCGATTCGAAGATGTTTCTCCAGTGACCGAAAAATGTCCAAATCGGCTTTA
 AACCAGACCAAGAAGCGTAAGAAGCGGCGACACAGGACAATCTTTACTTCTACCAGCTAGAGGAGCTGG
 AGAAAGCATTCAATGAAGCCACTACCCAGATGTCTACGCCCCGGGAGATGCTGGCCATGAAAACGGAGCT
 CCCAGAAGACAGGATACAGGTGTGGTCCAGAACCGCAGAGCCAAGTGGAGGAAGAGGGAGAAGTGTGG
 GGCCGGAGCAGCGTCATGGCTGAGTATGGTCTCTATGGAGCCATGGTGGGCACTCGATCCCCCTGCCAG
 AGTCTATCCTCAAGTCTGCCAAGGATGGCATAATGGATTCTGTGCCCATGGCTACTGGTCAAGATGG
 CTTTCCAGGCGCTTTTCTAAACCCGAATACCAACAATCTTTTAGGGATGCACAAAAAGTCGCTGGAG
 GCAGCAGTGAAGTCCGGGAAGGAAGCCCGAGGTGGAACGCCAGGCCCTGCCAAGCTCGACAAGATGGAGC
 AGGAGGAACGGGCCCCAGAGGCCAGGCAGCCATCTCCAGGAAGAAGTGGGGAGAAGCAGCATTGCCGC
 CCTCCGAGCCAAAGCTCAGGAACACAGCACCAAGGTTCTGGGGACTGTATCTGGGCTGACAGCCTGGCC
 AGAAATGCTGAGAAGCCAGAAGAAGAGGACGCCACGGAGGAAGACAGGCCAGCTGAGAAGCTCAGCCAC
 CGCAGCTGGAGGACATGGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229606 representing NM_001301427
Red=Cloning site Green=Tags(s)

MTGKAGEALSKPKSETVAKSTSGGAPARCTGFGIQEILGLNKEPPSSHPRAALDGLAPGHLLAARSVLSP
 AGVGSMLLGPGLPGFYTQPTFLEVLSDPQSVHLQPLGRASGLDTSQTASSDSEDVSSSDRKMSKSAL
 NQTKRRKRHRHTIFTSYQLEELKAFNEAHYPDVYAREMLAMKTELPEDRIQVWFQNRRAKWRKREKCW
 GRSSVMAEYGLYGAMVRHSIPLPESILKSAKDGIMDSCAPWLLVQDGFPRRF SKPEYQQFFLGMHKSLE
 AAASGRKPEVERQALPKLDKMEQEERAPEAAATISQEELRENSIAALRAKAQEHSTKVLGTVSGPDSL
 RNAEKPEEDATEEDRPAEKLSPQLEDMA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

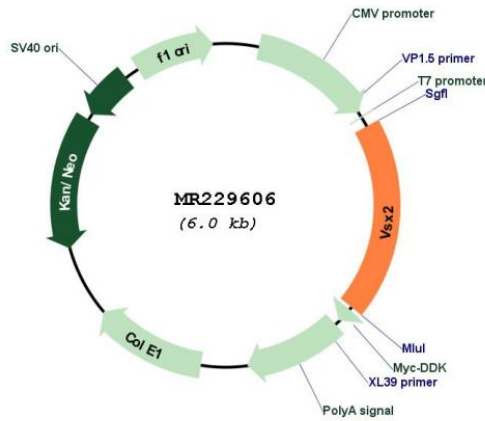
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001301427

ORF Size:	1140 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:	<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:	NM_001301427.1 , NP_001288356.1
RefSeq Size:	3276 bp
RefSeq ORF:	1143 bp
Locus ID:	12677
Cytogenetics:	12 39.28 cM
MW:	42.3 kDa
Gene Summary:	This gene encodes a member of the Vsx (visual system homeobox) family which belongs to the larger PRD homeobox class. The encoded protein is required for eye organogenesis and controls retinal development. Disruption of this gene is associated with ocular retardation J (orj), a mouse disease which causes microphthalmia, retinal degeneration and optic nerve aplasia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2014]