

Product datasheet for **MC227395**

Vsx2 (NM_001301427) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vsx2 (NM_001301427) Mouse Untagged Clone
Tag:	Tag Free
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
Fully Sequenced ORF:	>MC227395 representing NM_001301427 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGACGGGGAAAGCGGGGAAGCGCTGAGCAAGCCAAATCCGAGACAGTGGCCAAGGTACCTCGGGG
GCGCCCCGGCCAGGTGCACAGGGTTCGGCATCCAGGAGATCCTAGGCTTGAACAAGGAGCCTCCCAGCTC
CCACCCCGGGCTGCCCTCGACGGCTGGCCCCGGGCATTTGTTAGCTGCGCGCTCCGTTCTCAGCCCG
GCAGGAGTGGGCAGCATGGGGCTGCTGGGGCCCGGGGACTTCCCGGCTTCTACACACAGCCACCTTCT
TGGAAGTGCTGTCCGATCCGCAGAGCGTCCACTTGCAGCCACTAGGCAGAGCGTCCGGGGCCGCTGGACAC
CAGCCAGACGGCCAGCTCCGATTCGAAGATGTTTCTCCAGTGACCGAAAAATGTCCAAATCGGCTTTA
AACCAGACCAAGAAGCGTAAGAAGCGGCGACACAGGACAATCTTTACTTCTACCAGCTAGAGGAGCTGG
AGAAAGCATTCAATGAAGCCACTACCCAGATGTCTACGCCCCGGGAGATGCTGGCCATGAAAACGGAGCT
CCCAGAAGACAGGATACAGGTGTGGTTCAGAACCGCAGAGCCAAGTGGAGGAAGAGGGAGAAGTGTGG
GGCCGGAGCAGCGTCATGGCTGAGTATGGTCTCTATGGAGCCATGGTGGGCACTCGATCCCCCTGCCAG
AGTCTATCCTCAAGTCTGCCAAGGATGGCATAATGGATTCTGTGCCCATGGCTACTGGTCAAGATGG
CTTTCCAGGCGCTTTTCTAAACCCGAATACCAACAATCTTTTAGGGATGCACAAAAAGTCGCTGGAG
GCAGCAGCTGAGTCGGGAAGGAAGCCCGAGGTGGAACGCCAGGCCCTGCCAAGCTCGACAAGATGGAGC
AGGAGGAACGGGCCCCAGAGGCCAGGCAGCCATCTCCAGGAAGAAGTGGGGAGAAGCAGCATTGCCGC
CCTCCGAGCCAAAGCTCAGGAACACAGCACCAAGGTTCTGGGGACTGTATCTGGGCTGACAGCCTGGCC
AGAAATGCTGAGAAGCCAGAAGAAGAGGACGCCACGGAGGAAGACAGGCCAGCTGAGAAGCTCAGCCAC
CGCAGCTGGAGGACATGGCT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001301427
Insert Size:	1143 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001301427.1</u> , <u>NP_001288356.1</u>
RefSeq Size:	3276 bp
RefSeq ORF:	1143 bp
Locus ID:	12677
Cytogenetics:	12 39.28 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>