

Product datasheet for **MC205428**

Vsx2 (NM_007701) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vsx2 (NM_007701) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Vsx2
Synonyms:	Chx10; Hox-1; Hox-10; Hox1; Hox10; or
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC031869
 CCTGGGACCAACTTCACGAAGCGGGGAGCCCGCGGGGGGGCTTGGGGGAGCAAAAGACCCGCGCCTCA
 GCCCTCCAAAGAACCGGGAGATGACGGGGAAAGCGGGGAAGCGCTGAGCAAGCCAAATCCGAGACAG
 TGGCCAAGAGTACCTCGGGGGCGCCCCGGCCAGGTGCACAGGGTTCGGCATCCAGGAGATCCTAGGCTT
 GAACAAGGAGCTCCCAGCTCCCACCCGCGGGCTGCCCTCGACGGCTGGCCCTGGGCATTTGTTAGCT
 GCGCGCTCCGTTCTCAGCCCGGCAGGAGTGGGCAGCATGGGCTGCTGGGGCCCGGGGACTTCCCGGCT
 TCTACACACAGCCACCTTCTTGAAGTGCTGTCCGATCCGAGAGCGTCCACTTGCAGCCACTAGGCAG
 AGCGTCGGGGCCCTGGACACCAGCCAGACGGCCAGCTCCGATTCGAAGATGTTTCTCCAGTGACCGA
 AAAATGTCCAAATCGGCTTTAAACCAGACCAAGAAGCGTAAGAAGCGGGACACAGGACAATCTTTACTT
 CCTACCAGCTAGAGGAGCTGGAGAAAGCATTCAATGAAGCCCACTACCCAGATGTCTACGCCGGGAGAT
 GCTGGCCATGAAAACGGAGCTCCAGAAGACAGGATACAGGTGTGGTTCCAGAACCAGAGCAAGTGG
 AGGAAGAGGGAGAAGTGTGGGGCCGAGCAGCGTCATGGCTGAGTATGGTCTCTATGGAGCCATGGTGA
 GGCCTCGATCCCCCTGCCAGAGTCTATCCTCAAGTCTGCCAAGGATGGCATAATGGATTCTGTGCCCC
 ATGGCTACTGGGGATGCACAAAAGTCGCTGGAGGCAGCAGCTGAGTCGGGAAGGAAGCCCGAGGTGGAA
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 CCCAGGAAGAAGTGAAGGAGAACAGCATTGCCGCCCTCCGAGCCAAAGCTCAGGAACACAGCACCAAGGT
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 GGCTCGGAAGTGTCTTCTCCAGCCCTGCAGCCCTGCGGTGTGGCGAGTTCTCTCTGAGGCAAGGCCCA
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 GCCCAGCTTCCCTGCCTCAAAGCCTTCTTGTACCCCGACATCGAGGTCTCTACGTCATCCCTGAGA
 GACTCTTGTCCAAGCCTATCCCTATTCTGTCTCTAAGCCTTCTCTCCCGACTTAGCCCCCTGAGG
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 CGGTGTCCGAGCACCCAGCACTTTGCAGGCAGGCTTTTCCCTTTCACCTGTTCTTCTCGCAGACCT
 GGACCCTGGCTGGCTCCTGCTGTGTGAATGCACAGCCGGGTACAGTGGGTCTGCTGTGAGGATGCACTG
 CTCAGCTGGTCCACGGTGAACCTCTGCATTCTGCCCCTGCCTGCTGATGGGCAGATTCAAGTCTAAAC
 AGGGCAACTCTCAGATTGAGTCTTCCCCAACCTGTCTCAGCCGTGCTGTAGATCATCTCAGGCCTT
 CTCCGCACCGAGCCTGCCCTACATGTTCTCCTTTGCAGAGGTGGGCCACACCACCTTGCAGTGTCTAG
 GCCCTGCAGCCTGAGGGCGGGCGCTTCTCGCAATGCTGTGGCTTGTCTTACTGCTGGTGAAGCCCTCAC
 CCAGAGCTTTTGCACCCAGGGCTGGGTGTGAAGCATTGACCCTTCTGCCTATGACTTTGACTTG
 CTAGTTAAGGCTTCTTTCTAGAGCTTCTGTAGCCAGTGGCTCTCAAGTTCCTAATGCTATGACCTTT
 AATACAGTTCTTGTGTTGTGGTGACCACCCCCCAACCTTTAAATGTATTTCACTTACTTATAA
 CTGTAATTTTGCTACTGTTATGAATCAAATGTAATATTTGATATGTGGAATATCTGATTATGTGACTT
 CCTCAAAGGGGCCATGGGGTTCATGACCCACAGGTTGAGAACTGCTGTTGTAGCCATTGGTTCACATG
 TGCCTGCTTTAGAGAAAAATGGGTGCAGCTTAAAGCCCGGACATGGCCTCACTTTGACCTAGGCAGTCC
 TAAAAGGCCAAGCCAAAATCAGACCCACGCTATCTATCTATACACACACGCACACGCACACATGCACGCA
 TGCACGCACGCTGTATAACATGAAAGGTACGGGGAAAGCTCAAAGAACAAGGCAGGTAGCTAGTAAAAA
 ACCAGACTAAGCTACAGACGCTCATAGCTCCGTGCCAGTGTATGCCAGAAAGGTGCCATAGATAAGG
 AGCCATGTTGGACTGAATGCCTTCTGCCTGCAAAGGAGTGGCACTGTCCATACTGATGGCATGTCTCAG
 ATGTCCCTGTCTGCAGATGTCTGTCTGCAGATGCCCTTCCACCTGGCTTTATACATGTACTAGGGT
 GCAGAGCCTTCTGGGTCTCTGCTCCTGTATTCCCAGGCCAACCAAGACCCCTTTATCCTGTGAAG
 TTACCCACCTACCCTTCAAAAAAGGCCCGGGCAGTGAAGTGTGATTTTAAATCTGTTTTGACAGTT
 GATTTCTTCTCGTTCTCTTATAGACTTCTCCCGCTTCTGAGTCTTATCTTCTCCCGGTTGAGATGT
 TGACTATAGTCTGGTGTGTAATAGTGTACATAATGTGAGAAGGAAGAAGCTGGACACTGAGGTGTTCCG
 AAACACTGAATTGCATAACTTTTAGTATTCAAAGCATAATTTCTGTGCTGTTTTCTGTAAAGACACAA
 GCAAGAATAAAATTCATGCAAAGACTGCTAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_007701
Insert Size: 1086 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).
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:	BC031869 , AAH31869
RefSeq Size:	3197 bp
RefSeq ORF:	1086 bp
Locus ID:	12677
UniProt ID:	Q61412
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 (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.</p>