

Product datasheet for **MG205529**

Vsx2 (NM_007701) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vsx2 (NM_007701) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Vsx2
Synonyms:	Chx10; Hox-1; Hox-10; Hox1; Hox10; or
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205529 representing NM_007701 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACGGGAAAGCGGGGAAGCGCTGAGCAAGCCAAATCCGAGACAGTGGCCAAGAGTACCTCGGGG
GCGCCCCGGCCAGGTGCACAGGGTTCGGCATCCAGGAGATCCTAGGCTTGAACAAGGAGCCTCCAGCTC
CCACCCCGGGGTGCCCTCGACGGCTGGCCCTGGGCATTTGTAGCTGCGCGCTCCGTTCTCAGCCC
GCAGGAGTGGGCAGCATGGGCTGCTGGGGCCCGGGGACTTCCCGGCTTCTACACACAGCCACCTTCT
TGGAAGTGTGTCGATCCGAGAGCGTCCACTTGCAGCCACTAGGCAGAGCGTCGGGGCCGCTGGACAC
CAGCCAGACGGCCAGCTCCGATTCGAAGATGTTTCTCCAGTGACCGAAAAATGTCAAATCGGCTTTA
AACCAGACCAAGAAGCGTAAGAAGCGGGACACAGGACAATCTTTACTTCTACCAGCTAGAGGAGCTGG
AGAAAGCATTCAATGAAGCCACTACCCAGATGTCTACGCCCCGGGAGATGCTGGCCATGAAAACGGAGCT
CCCAGAAGACAGGATACAGGTGTGGTCCAGAACCAGAGCCAAGTGGAGGAAGAGGGAGAAGTGTGG
GGCCGGAGCAGCGTCATGGCTGAGTATGGTCTCTATGGAGCCATGGTGGGCACTCGATCCCCCTGCCAG
AGTCTATCCTCAAGTCTGCCAAGGATGGCATAATGGATTCTGTGCCCATGGCTACTGGGGATGCACAA
AAAGTCGCTGGAGGCAGCAGCTGAGTCGGGAAGGAAGCCGAGGTGGAACGCCAGGCCCTGCCAAGCTC
GACAAGATGGAGCAGGAGGAACGGGCCAGAGGCCAGGCACCATCTCCAGGAAGAAGTGGGGAGA
ACAGATTGCCCGCCTCCGAGCCAAAGCTCAGGAACACAGCACCAAGGTTCTGGGGACTGTATCTGGGCC
TGACAGCCTGGCCAGAAATGCTGAGAAGCCAGAAGAAGAGGACGCCACGGAGGAAGACAGGCCAGCTGAG
AAGCTCAGCCACCGCAGCTGGAGGACATGGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205529 representing NM_007701
 Red=Cloning site Green=Tags(s)

MTGKAGEALSKPKSETVAKSTSGGAPARCTGFGIQEILGLNKEPPSSHPRALDGLAPGHLLAARSVLS
 AGVGSMLLGPGLPGFYTQPTFLEVLSDPQSVHLQPLGRASGLDTSQTASSDSEDVSSSDRKMSKSA
 NQTKKRKRHRRTIFTSYQLEELKAFNEAHYPDVYAREMLAMKTELPEDRIQVWFQNRRAKWRKREK
 GRSSVMAEYGLYGAMVRHSIPLPESILKSAKDGIMDSCAPWLLGMHKSLEAAAESGRKPEVERQAL
 PKL DKMEQEERAEQAASISQEELRENSIAALRAKAEHSTKVLGTVSGPDSLARNAEKPEEEDATE
 EDPAE KLSPQLEDMA

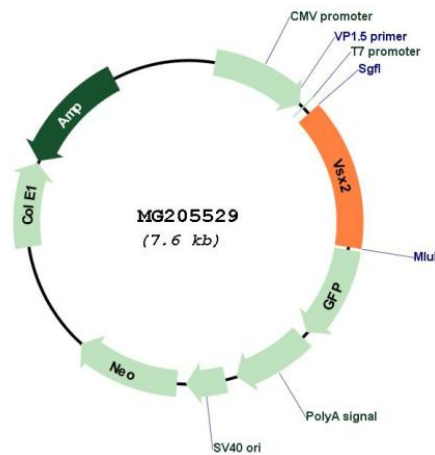
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_007701

ORF Size:	1083 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_007701.3
RefSeq Size:	3197 bp
RefSeq ORF:	1086 bp
Locus ID:	12677
UniProt ID:	Q61412
Cytogenetics:	12 39.28 cM
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]