

Product datasheet for **RG212033**

CHX10 (VSX2) (NM_182894) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CHX10 (VSX2) (NM_182894) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: VSX2
Synonyms: CHX10; HOX10; MCOP2; MCOPCB3; RET1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG212033 representing NM_182894
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACGGGGAAAGCAGGGGAAGCGCTGAGCAAGCCAAATCCGAGACAGTGGCCAAGAGTACCTCGGGG
 GCGCCCCGGCCAGGTGCACTGGGTTCCGGCATCCAGGAGATCTGGGCTTGAACAAGGAGCCCCGAGCTC
 CCACCCCGGGCAGCGCTCGACGGCCTGGCCCCGGGCACTTGTGGCGGCGGCTCAGTGTCTAGCCCC
 GCGGGGTGGGCGCATGGGCTTCTGGGGCCCGGGGGCTCCCTGGCTTCTACACGCAGCCACCTTCC
 TGGAGTGTGTCCGACCCGAGAGCGTCCACTTGCAGCCATTGGGCAGAGCATCGGGCCGCTGGACAC
 CAGCCAGACGGCCAGCTCGGATTCTGAAGATGTTTCTCCAGCGATCGAAAAATGTCCAAATCTGCTTTA
 AACCAGACCAAGAAACGGAAGAAGCGGGACACAGGACAATCTTTACCTCTACCAGCTAGAGGAGCTGG
 AGAAGGCATTCAACGAAGCCCACTACCCAGACGCTATGCCCCGGGAGATGCTGGCCATGAAAACGGAGCT
 GCCGGAAGACAGGATACAGGTCTGGTCCAGAACCCTGAGCCAAAGTGGAGGAAGCGGGAGAAGTGTGG
 GGCCGGAGCAGTGTATGGCGGAGTATGGGCTCTACGGGGCCATGGTGCCGCACTCCATCCCCCTGCCCG
 AGTCCATCCTCAAGTCAGCAAGGATGGCATCATGGACTCCTGTGCCCGTGGCTACTGGGGATGCACAA
 AAAGTCGCTGGAGGCAGCAGCCGAGTCCGGGAGGAAGCCCGAGGGGAACGCCAGGCCCTGCCAAGCTC
 GACAAGATGGAGCAGGACGAGCGGGCCCGACGCTCAGGCGGCCATCTCCAGGAGGAAGTGGGGAGA
 ACAGCATTGCGGTGCTCCGGGCCAAAGCTCAGGAGCACAGCACCAAAAGTGTGGGGACTGTGTCTGGGCC
 GGACAGCCTGGCCCGGAGTACCGAGAAGCCAGAGGAGGAGGAGGCCATGGATGAAGACAGGCCGGCGGAG
 AGGCTCAGTCCACCGCAGCTGGAGGACATGGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG212033 representing NM_182894
Red=Cloning site Green=Tags(s)

MTGKAGEALSKPKSETVAKSTSGGAPARCTGFGIQEILGLNKEPPSSHPRALDGLAPGHLLAARSVLS
 AGVGGMGLLGPGLPGFYTQPTFLEVLSDPQSVHLQPLGRASGLDTSQTASSDSEDVSSDRKMSKSA
 NQTKKRKRHRHTIFTSYQLEELKAFNEAHYPDVYAREMLAMKTELPEDRIQVWFQNRRAKWRKREKC
 WRSSVMAEYGLYGAMVRHSIPLPESILKSAKDGIMDSCAPWLLGMHKKSLEAAAESGRKPEGERQALPKL
 DKMEQDERGPDAAISQEELRENSIAVLRKAQEHSTKVLGTVSGPDSLARSTEKPEEEEEAMDEDRPAE
 RLSPQLEDMA

TRTRPLE - GFP Tag - V

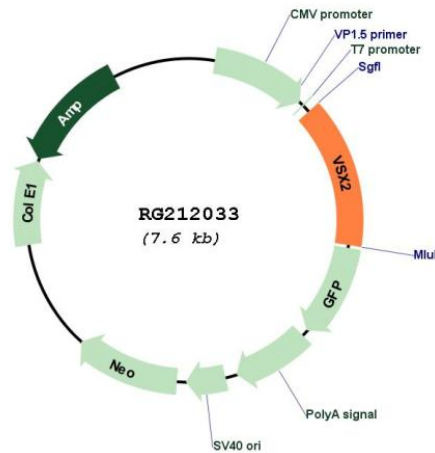
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_182894

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_182894.3
RefSeq Size:	3005 bp
RefSeq ORF:	1086 bp
Locus ID:	338917
UniProt ID:	P58304
Cytogenetics:	14q24.3
Protein Families:	Transcription Factors
Gene Summary:	This gene encodes a homeobox protein originally described as a retina-specific transcription factor. Mutations in this gene are associated with microphthalmia, cataracts and iris abnormalities. [provided by RefSeq, Oct 2009]