

Product datasheet for **RG207381**

C10orf72 (VSTM4) (NM_001031746) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C10orf72 (VSTM4) (NM_001031746) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	VSTM4
Synonyms:	C10orf72
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207381 representing NM_001031746 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGCTGCTGGCACTGGCGGGCCGCGCTGCTGGCGGGCTCCGGCTCCGGAGGTCTGTGCGGCC
TCAATGCACTGTGTCCCGGGCCCGTGGTTGACTACCTGGAGGGGAGAATGCCACTCTCTCTGCCA
CGTCTCCAGAAAAGCGGAAGGACAGCTTGTGGCCGTGCGCTGGTTCTTGCACACTCTCCGACTCC
CAGGAGGCCTTGATGGTGAAGATGACCAAGCTCCGGTGGTGCAGTACTATGGGAATTCAGCCGACGG
CCAAACGGCGGAGGCTGCGCCTGCTGGAGGAGCAGCGGGGGCGCTCTACAGGCTCTCCGCTTGACT
GCAGCCCTCCGATCAAGGCATTACGTCTGCAGAGTCCAGGAAATCAGCAGGCACAGGAACAAGTGACG
GCCTGGTCCAATGGCTCCTCAGCCACGGAAATGAGAGTCAATTCCTCAAAGCTTCTGAAGATCATCCT
TTGAGAAAACAAAAGAGACTTGGGCATTTTTTGAAGATCTCTATGTGTATGCTGTCTCGTGTGCTGCGT
GGGGATCCTCAGCATTCTGCTCTTATGCTGGTCATCGTCTGGCAGTCTGTGTTAAACAGCGGAAATCC
AGAGTGAGACATTATTTGGTGAATGCCCTCAGAACAGCTCAGGGGAGACTGTCACTAGCGTGACCAGCT
TGGCCCACTACAGCCCAAGAAGGGCAGGAGGCAGAAGGAGAAGCCTGACATTCCTCCAGCAGTCCCTGC
CAAAGCTCCGATAGCCCCACGTTCCATAAACCGAAGCTGCTGAAACCACAGAAAAAGTCACGCTGCCA
AAGATTGCTGAGGAAAACCTTAACTATGCCGAGCTGGAGCTGATCAAACCCACCGGGCTGCCAAAGGCG
CCCCACCAGCACTGTCTACGCCAGATCCTCTCGAGGAGAACAAGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207381 representing NM_001031746
Red=Cloning site Green=Tags(s)

MRLALAAAALLARAPAPEVCAALNVTVSPGPVVDYLEGENATLLCHVSQKRRKDSLLAVRWFFAHSSDS
 QEALMVKMTKLRVVQYYGNFSRSKRRLRLLEEQRGALYRLSVLTLQPSDQGHYVCRVQEISRHRNKWT
 AWSNGSSATEMRVISLKASEESSFEKTKETWAFEDLYVYAVLVCCVGILSILLFMLVIWQSVFNKRKS
 RVRHYLVKCPQNSSGETVTSVTSAPLQPKKGRRQKEKPDIPPAVPAKAPIAPTFFHKPKLLKPKRVTLPL
 KIAEENLYAELELIKPHRAAKGAPTSTVYAQILFEENKL

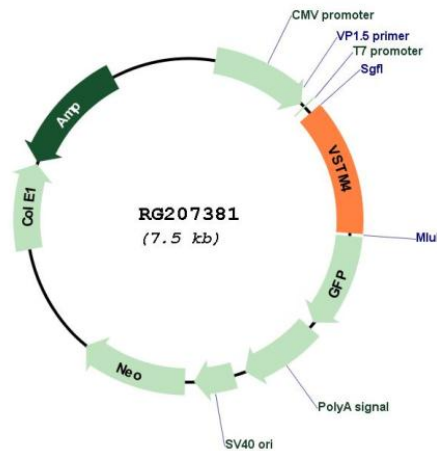
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001031746

ORF Size: 960 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_001031746.2
RefSeq Size:	2451 bp
RefSeq ORF:	963 bp
Locus ID:	196740
UniProt ID:	Q8IW00
Cytogenetics:	10q11.23
Protein Families:	Transmembrane
Gene Summary:	Peptide Lv enhances L-type voltage-gated calcium channel (L-VGCC) currents in retinal photoreceptors.[UniProtKB/Swiss-Prot Function]