

Product datasheet for **RC224272**

VSX1 (NM_199425) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	VSX1
Synonyms:	CAASDS; KTCN; KTCN1; PPCD; PPCD1; PPD; RINX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC224272 representing NM_199425
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGACCGGCCGGGACTCGCTTTCCGACGGGCGCACTAGCAGCAGGGCGCTGGTGCCTGGCGGTTCCCTA
GGGGCTCGCGCCCCCGGGGCTTCGCCATCACGGACCTGCTGGGCTTGGAGGCCGAGCTGCCGGCGCCCGC
TGGCCAGGACAGGGATCTGGCTGCGAGGGTCCGGCAGTCGCGCCGTGCCGGGCCGGGGCTTACCGC
TCCAGCCTGGCGCGTGGGGCCCTACCGCTGGGACTCGGCCTCCTCTGTGGCTTCGGCACGACGCCCGG
CGGCCGCTCGAGCACCTGCTGCTCCTAGCGGACGTGCCGTTCTGCCGCCAGGGGCCCGAGCCCGC
TGCCCCGCTGGCTCCAGCCGTCGCCCGCTGCGCTCGGCCGCCAGAAGCGCAGCGACAGCGTCTCCACG
TCCGATGAGGACAGCCAGTCTGAAGACAGGAATGACCTAAAGGCATCCCCACCTTGGCAAGAGGAAGA
AGCGGCGGCACAGGACAGTCTTCACTGCTCACCAGCTGGAAGAGTTGGAGAAGGCATTACGCGAGGCCCA
CTACCCTGATGTGTATGCCGAGAAATGCTGGCTGTGAAAAGTCTGAGCTCCCGAAGACCGGATACAGGTG
TCTGGGGTCCCTTTCTCCGCTCCAAAGATACCACAGAGAAGCTGTCTTCCCACATTCAGTGAGCCAAT
CAGCAGTCCCTTCTCTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RC224272 representing NM_199425

Red=Cloning site Green=Tags(s)

MTGRDSLSDGRTSSRALVPGGSPRGSRPRGFAITDLLGLEAELPAPAGPGQGSGCEGPAVAPCPGPGLDG
SSLARGALPLGLLLCGFGTQPPAAARAPCLLLADVPLPPRGPEPAAPLAPSRPPPALGRQKRSDSVST
SDEDSQSEDRNDLKASPTLGKRKKRRHRTVFTAHQLEELEKAFSEAHYPDVYAREMLAVKTELPEDRIQV
SGVPFLRSKDTTENVSFPHSVSQSAVPSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

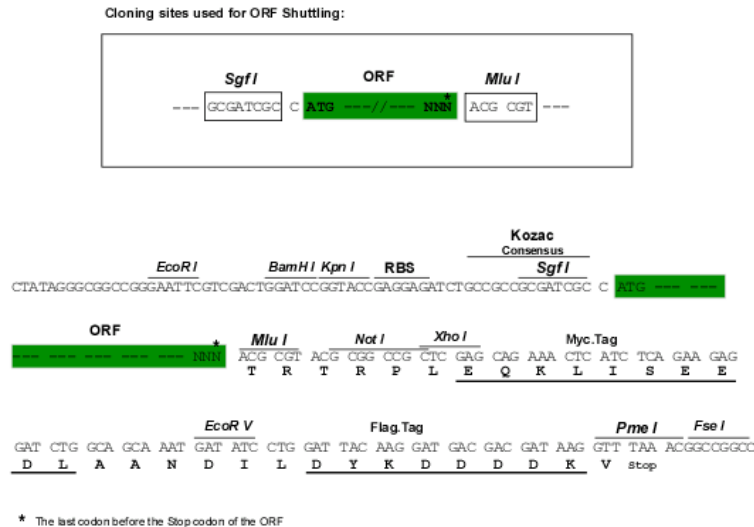
Chromatograms:

https://cdn.origene.com/chromatograms/ja1260_a08.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_199425

ORF Size:

717 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:

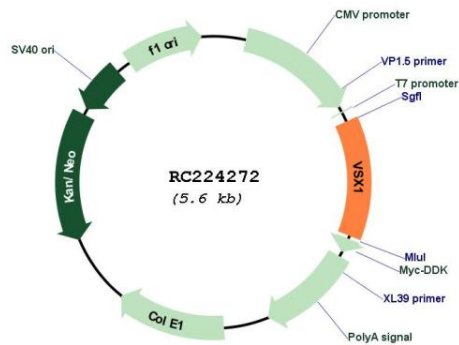
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:

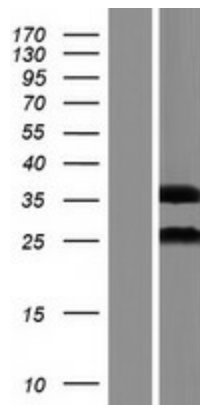
The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_199425.3</u>
RefSeq Size:	943 bp
RefSeq ORF:	720 bp
Locus ID:	30813
UniProt ID:	<u>Q9NZR4</u>
Cytogenetics:	20p11.21
MW:	24.8 kDa
Gene Summary:	The protein encoded by this gene contains a paired-like homeodomain and binds to the core of the locus control region of the red/green visual pigment gene cluster. The encoded protein may regulate expression of the cone opsin genes early in development. Mutations in this gene can cause posterior polymorphous corneal dystrophy and keratoconus. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

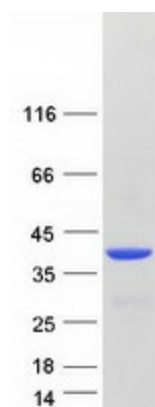
Product images:



Circular map for RC224272



Western blot validation of overexpression lysate (Cat# [LY404557]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224272 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified VSX1 protein (Cat# [TP324272]). The protein was produced from HEK293T cells transfected with VSX1 cDNA clone (Cat# RC224272) using MegaTran 2.0 (Cat# [TT210002]).