

## Product datasheet for **RC221002**

### VCX3A (NM\_016379) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VCX3A (NM_016379) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VCX3A
Synonyms:	VCX-8r; VCX-A; VCX3; VCX8R; VCXA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221002 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGTCCAAAGCCGAGAGCCTCGGGACCTCCGGCCAAGGCCAGGGAGGCAGGAAAGAGGAAGTCCTCT  
 CTCAGCCGAGCCCACTGACCCGAAGAAGAAGACTACCAAGGTGGCCAAGAAGGAAAAGCAGTTCGTAG  
 AGGGAGACGCGGAAGAAGGGGCTGCGACAAAGATGGCGCCGTGACGGCACCTGAGGCGGAGAGCGGG  
 CCAGCGGCACCCGCCAGCGACCCAGCCAGGAGCTCCCTCAGCACGAGCTGCCCGGAGGAGC  
 CAGTGAGCGAGGGGACCCAGCACGACCCCGAGTCAGGAGAGCCAGCTGGAGGAACCACTGAGTCAGGA  
 GAGCGAGGTGGAAGAACCACTGAGTCAGGAGAGCCAGGTGGAGGAACCACTGAGTCAGGAGAGCGAGGTG  
 GAGGAACCACTGAGTCAGGAGAGCCAGGTGGAGGAACCACTGAGTCAGGAGAGCGAGATGGAAGAACCAC  
 TGAGTCAGGAGAGCCAGGTGGAGGAACCACTGAGTCAGGAGAGCGAGATGGAAGAAGTACCGAGTGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC221002 protein sequence Red=Cloning site Green=Tags(s)
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MSPKPRASGPPAKAREAGKRKSSQSPSPDKKKTTKVAKKGKAVRRGRGKKGAATKMAAVTAPEAESG  
 PAAPGSPDQPSQELPQHELPPPEPVSEGTQHDPPSQESQLEEPLSQESEVEEPLSQESQVEEPLSQESEV  
 EEPLSQESQVEEPLSQESEMEEPLSQESQVEEPPSQESEMEELPSV

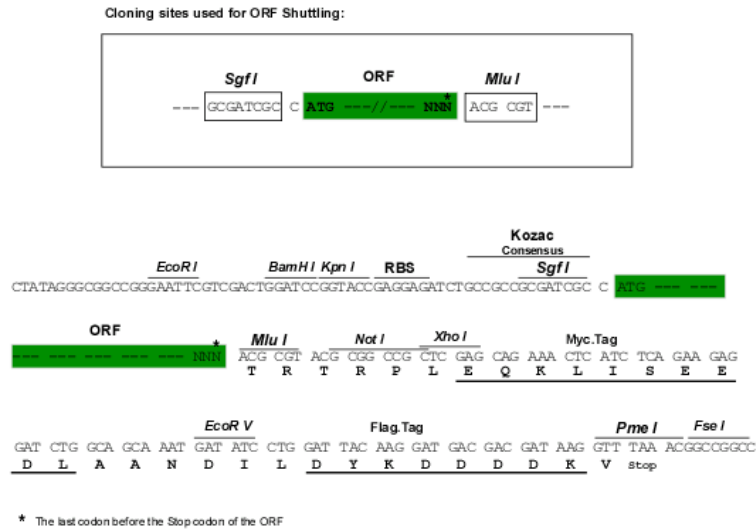
**TR**TRPLE**QKL**ISEEDLAANDILDYKDDDDK**V**

Chromatograms:	<a href="https://cdn.origene.com/chromatograms/mk6473_a09.zip">https://cdn.origene.com/chromatograms/mk6473_a09.zip</a>
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**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_016379

**ORF Size:** 558 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:** [NM\\_016379.4](#)

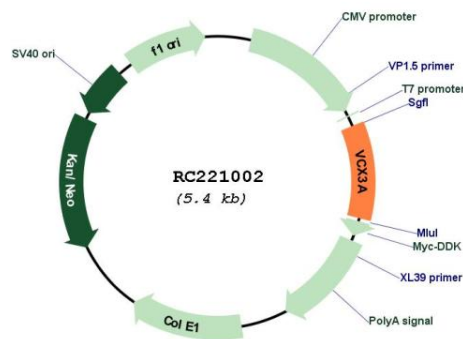
**RefSeq Size:** 1004 bp

**RefSeq ORF:** 561 bp

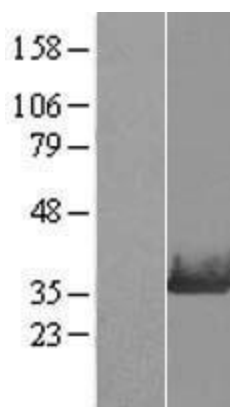
**Locus ID:** 51481  
**UniProt ID:** [Q9NNX9](#)  
**Cytogenetics:** Xp22.31  
**MW:** 20.1 kDa

**Gene Summary:** This gene belongs to the VCX/Y gene family, which has multiple members on both X and Y chromosomes, and all are expressed exclusively in male germ cells. The X-linked members are clustered on chromosome Xp22 and Y-linked members are two identical copies of the gene within a palindromic region on Yq11. The family members share a high degree of sequence identity, with the exception that a 30-bp unit is tandemly repeated in X-linked members but occurs only once in Y-linked members. The VCX gene cluster is polymorphic in terms of copy number; different individuals may have a different number of VCX genes. VCX/Y genes encode small and highly charged proteins of unknown function. The presence of a putative bipartite nuclear localization signal suggests that VCX/Y members are nuclear proteins. This gene contains 8 repeats of the 30-bp unit. [provided by RefSeq, Jul 2008]

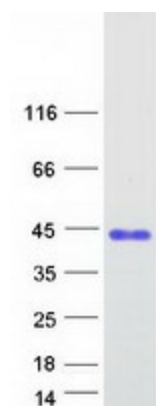
### Product images:



Circular map for RC221002



Western blot validation of overexpression lysate (Cat# [LY413983]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221002 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified VCX3A protein (Cat# [TP321002]). The protein was produced from HEK293T cells transfected with VCX3A cDNA clone (Cat# RC221002) using MegaTran 2.0 (Cat# [TT210002]).