

## Product datasheet for **RC215150**

### VCY (NM\_004679) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** VCY (NM\_004679) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** VCY  
**Synonyms:** BPY1; VCY1; VCY1A  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC215150 representing NM\_004679  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTCCAAAGCCGAGAGCCTCGGGACCTCCGGCCAAGGCCAAGGAGACAGGAAAGAGGAAGTCCTCTCT  
CTCAGCCGAGCCCGAGTGGCCCGAAGAAGAAGACTACCAAGGTGGCCGAGAAGGGAGAAGCAGTTCTGTGG  
AGGGAGACGCGGGAAGAAAGGGGCTGCGACAAAGATGGCGCCGTGACGGCACCTGAGGCGGAGAGCGGG  
CCAGCGGCACCCGGCCCCAGCGACCAGCCAGCCAGGAGCTCCCTCAGCACGAGCTGCCCGGAGGAGC  
CAGTGAGCGAGGGGACCCAGCACGACCCCTGAGTCAGGAGAGCGAGCTGGAGGAACCACTGAGTAAGGG  
GCGCCCATCTACTCCCTATCTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC215150 representing NM\_004679  
**Red=Cloning site Green=Tags(s)**

MSPKPRASGPPAKAKETGKRKSSSQSPSPGPKKTKTVAEKGEAVRGGRRGKKGAATKMAAVTAPEAESG  
PAAPGSPDQPSQELPQHELPEEPVSEGTQHDPLSQESELEEPLSKGRPSTPLSP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_004679

**ORF Size:** 375 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.

**RefSeq:** [NM\\_004679.2](#), [NP\\_004670.1](#)

**RefSeq Size:** 551 bp

**RefSeq ORF:** 378 bp

**Locus ID:** 9084

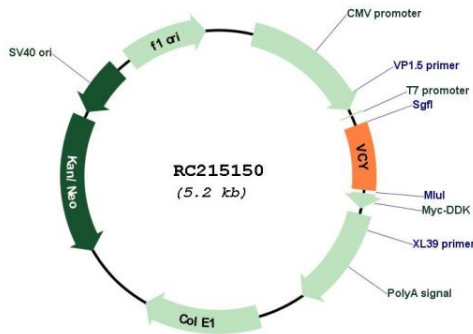
UniProt ID: [O14598](#)

Cytogenetics: Yq11.221

MW: 12.9 kDa

**Gene Summary:** The protein encoded by this gene is a member of a family of human VCX/Y genes. This gene family has multiple members on both X and Y chromosomes, and all are expressed exclusively in male germ cells. Members of the VCX/Y family 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. VCX/Y genes encode small and highly charged proteins of unknown function. This gene encodes a small, positively charged protein. The presence of a putative bipartite nuclear localization signal suggests that this gene encodes a nuclear protein. The genome has two identical copies of this gene within a palindromic region; this record represents the more centromeric copy. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC215150