

## Product datasheet for **RC213044**

### ZFYVE19 (NM\_001077268) Human Tagged ORF Clone

#### Product data:

|                           |                                               |
|---------------------------|-----------------------------------------------|
| Product Type:             | Expression Plasmids                           |
| Product Name:             | ZFYVE19 (NM_001077268) Human Tagged ORF Clone |
| Tag:                      | Myc-DDK                                       |
| Symbol:                   | ZFYVE19                                       |
| Synonyms:                 | ANCHR; MPFYVE                                 |
| Mammalian Cell Selection: | Neomycin                                      |
| Vector:                   | pCMV6-Entry (PS100001)                        |
| E. coli Selection:        | Kanamycin (25 ug/mL)                          |



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**ORF Nucleotide Sequence:**

>RC213044 representing NM\_001077268  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**

ATGAACACGACTCCAGCAGCCCCGTTGCCCGCTGCCGTACGCTGGCTGCAGGAGAGCGTCCGGAT  
 TCCTGCTCTAGGTCGCGCGGGACAGTGCCAGTGGGCGTGTGGGCGGGCAGGCAAGGAAGG  
 GCGGAGCTGGGGTGAGGGTCCAAGGGGCCAGGACTTGGCCGGCGTGATCTCAGCTCTGCAGACCTGCG  
 GTGCTGGGAGCCACCATGGAGAGTAGGTGCTACGGCTGCGCTGTCAAGTTACCCCTTTCAAGAAGGAGT  
 ACGGCTGTAAGAATTGTGGCAGGCTTCTGTTCAAGGCTGCCTAAGCTTCAGTGCAGCAGTGCCTCGGAC  
 TGGGAACACCAACAGAAAGTCTGCAAGCAATGCCATGAGGTCTGACCAGAGGGTCTTCTGCCAATGCC  
 TCCAAGTGGTCAACACCTCAGAACTATAAGAAGCGTGTGGCAGCCTTGAAGCCAAGCAAAGCCAGCA  
 CTTCCAGAGCCAGGGACTGACACGACAAGACCAGATGATTGCTGAGCGCTAGCAGCAGTCCGCCAGGA  
 GAACAAGCCCAAGTTAGTCCCTCACAGGCAGAGATAGAGGCACGGCTGGCTGCCCTAAAGGATGAACGT  
 CAGGGTTCATCCCTTCCACCCAGGAAATGGAGGCACGACTTGCAGCGTTGCAGGGCAGAGTTCTACCTT  
 CTCAAACCCCCAGCCGGCACATCACACACCGGACACCAGGACCAAGCCAGCAGACACAGGATCTGCT  
 AACGCAGCTGGCAGCTGAGGTGGCTATCGATGAAAGCTGGAAAGGAGGAGGCCAGCTGCCTCTCTCCAG  
 AATGATCTCAACCAGGTGGCCAGGGAGCACTAATCCAAGAGGCAGGCCAACTGGTCTTGGAGGAGG  
 AGAAGAGCAGACTGCTGGCTGAGGCAGCACTTGAAGTGGGGAGGAGAACACGAGGCAGGAACGGATTCT  
 GGCCCTGGCCAAAGCGACTAGCCATGCTGCGGGGACAGGACCCGAGAGAGTGACCCTCCAGGACTATCGC  
 CTCCAGACAGTATGACGACGAGGATGAGGAGACAGCCATCAAAGAGTCTGCAGCAGCTCACTGAAG  
 AAGCTTCCCTGGATGAGGCAAGTGGCTTAAATCCCTGCAGAGCAGGCTTCTCGACCTTGACGCAACC  
 CCGCGGGCAGAGCCTGAGGCCAGGATGTGGACCCAGGCCTGAGGCTGAGGAAGAGGAGCTCCCTGG  
 TGCTGCATCTGCAATGAGGATGCCACCCTACGCTGCGCTGGCTGCGATGGGGACCTCTTCTGTGCCCGCT  
 GCTTCCGAGAGGGCCATGATGCCTTTGAGCTTAAAGAGCACCAGACATCTGCCTACTCTCTCCAGTGC  
 AGGCCAAGAGCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC213044 representing NM\_001077268  
 Red=Cloning site Green=Tags(s)

MNYDSQQPPLPPLPYAGCRRASGFPALGRGGTVPVGVWGGAGQGREGRSWGEGRGPGLGRRDLSSADPA  
 VLGATMESRCYCAVKFTLFKKEYGCKNCGRFCGCLSFSAVPRTGNTQQKVCKQCHEVLTRGSSANA  
 SKWSPPQNYKKRVAALEAKQKPSTSQSQGLTRQDQMIARLARLRQENPKLVPSQAEIEARLAALKDER  
 QGSIPSTQEMEARLAALQGRVLPSTPQPAHHTPDTRTQAQQTQDLLTQLAAEVAIDESWKGPPAASLQ  
 NDLNQGGPGSTNSKRQANWSLEEEKSRLLAEAALELREENTRQERILALAKRLAAMLRGQDPERVTLQDYR  
 LPDSDDEDEETAIQRLQQLTEEASLDEASGFNIPAEQASRPWTQPRGAEPEAQDPRPEAEELLPW  
 CCICNEDATLRCAGCDGLFCARCFREGHDAFELKEHQTSAISPPRAGQEH

**TR**TRPLE**QKL**ISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg3921\\_c01.zip](https://cdn.origene.com/chromatograms/mg3921_c01.zip)

**Restriction Sites:**

Sgfl-MluI

### Cloning Scheme:



ACCN: NM 001077268

ORF Size: 1413 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\_001077268.2

RefSeq Size: 2293 bp

RefSeq ORF: 1416 bp

Locus ID: 84936

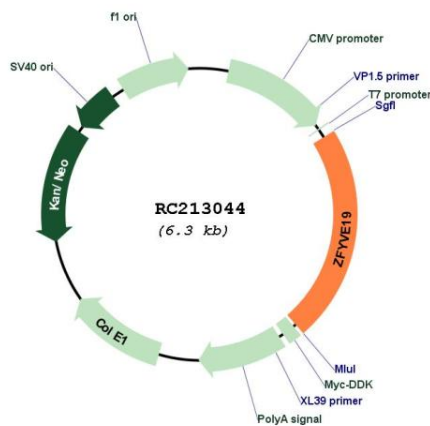
UniProt ID: [Q96K21](#)

Cytogenetics: 15q15.1

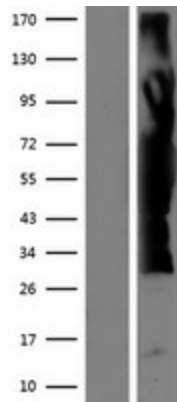
MW: 51.4 kDa

**Gene Summary:** Key regulator of abscission step in cytokinesis: part of the cytokinesis checkpoint, a process required to delay abscission to prevent both premature resolution of intercellular chromosome bridges and accumulation of DNA damage. Together with CHMP4C, required to retain abscission-competent VPS4 (VPS4A and/or VPS4B) at the midbody ring until abscission checkpoint signaling is terminated at late cytokinesis. Deactivation of AURKB results in dephosphorylation of CHMP4C followed by its dissociation from ZFYVE19/ANCHR and VPS4 and subsequent abscission.[UniProtKB/Swiss-Prot Function]

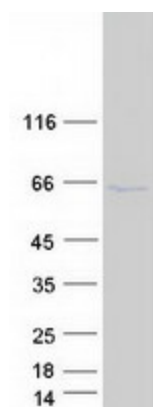
## Product images:



Circular map for RC213044



Western blot validation of overexpression lysate (Cat# [LY421396]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213044 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ZFYVE19 protein (Cat# [TP313044]). The protein was produced from HEK293T cells transfected with ZFYVE19 cDNA clone (Cat# RC213044) using MegaTran 2.0 (Cat# [TT210002]).