

Product datasheet for **RG213044**

ZFYVE19 (NM_001077268) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZFYVE19 (NM_001077268) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZFYVE19
Synonyms:	ANCHR; MPFYVE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG213044 representing NM_001077268
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACACGACTCCAGCAGCCCCGTTGCCGCCGCTGCCGTACGCTGGCTGCAGGAGAGCGTCCGGAT
 TCCTTGCTCTAGGTCGCGCGGGACAGTGCCAGTGGGCGTGTGGGCGGGGCAGGGCAGGGAAGGGAAGG
 GCGGAGCTGGGGTGAGGGTCCAAGGGGCCAGGACTTGCCCGCGTGATCTCAGCTCTGCAGACCTGCG
 GTGCTGGGAGCCACCATGGAGAGTAGGTGCTACGGCTGCGCTGTCAAGTTACCCCTCTTCAAGAAGGAGT
 ACGGCTGTAAGAATTGTGGCAGGGCCTTCTGTTCAAGGCTGCCTAAGCTTCAGTGCAGCAGTGCCTCGGAC
 TGGGAACACCCACAGAAAGTCTGCAAGCAATGCCATGAGGTCTGACCAGAGGGTCTTCTGCCAATGCC
 TCCAAGTGGTCAACACCTCAGAACTATAAGAAGCGTGTGGCAGCCTTGGAAGCCAAGCAAAGCCCAGCA
 CTTCCAGAGCCAGGGACTGACACGACAAGACCAGATGATTGCTGAGCGCTAGCAGGACTCCGCCAGGA
 GAACAAGCCCAAGTTAGTCCCTCACAGGCAGAGATAGAGGCACGGCTGGCTGCCCTAAAGGATGAACGT
 CAGGGTTCATCCCTTCCACCCAGGAAATGGAGGCACGACTTGCAGCGTTGCAGGGCAGAGTTCTACCTT
 CTCAAACCCCCAGCCGGCACATCACACACCGGACACCAGGACCCAAGCCAGCAGACACAGGATCTGCT
 AACGCAGCTGGCAGCTGAGGTGGCTATCGATGAAAGCTGGAAAGGAGGAGGCCAGCTGCCTCTCTCCAG
 AATGATCTCAACCAGGTGGCCAGGGAGCACTAATCCAAGAGGCAGGCCAACTGGTCTTGGAGGAGG
 AGAAGAGCAGACTGCTGGCTGAGGCAGCACTTGAAGTTCGGGAGGAGAACACGAGGCAGGAACGGATTCT
 GGCCCTGGCCAAGCGACTAGCCATGCTGCGGGGACAGGACCCGAGAGAGTGACCCTCCAGGACTATCGC
 CTCCAGACAGTATGACGACGAGGATGAGGAGACAGCCATCCAAGAGTCTGCAGCAGCTCACTGAAG
 AAGCTTCCCTGGATGAGGCAAGTGGCTTAAACATCCCTGCAGAGCAGGCTTCTCGACCCTGGACGCAACC
 CCGCGGGGCAGAGCCTGAGGCCAGGATGTGGACCCAGGCCTGAGGCTGAGGAAGAGGAGCTCCCTGG
 TGCTGCATCTGCAATGAGGATGCCACCCTACGCTGCGCTGGCTGCGATGGGGACCTCTTCTGTGCCCGCT
 GCTTCCGAGAGGGCCATGATGCCTTTGAGCTTAAAGAGCACCAGACATCTGCCTACTCTCTCCACGTGC
 AGGCCAAGAGCAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG213044 representing NM_001077268
 Red=Cloning site Green=Tags(s)

MNYDSQQPPLPPLPYAGCRRASGFPALGRGGTVPVGVWGGAGQGREGRSWGEGRGPGLGRRDLSSADPA
 VLGATMESRCYGCAVKFTLFKKEYGCKNCGRAFCGCLSFSAAVPRTGNTQQKVCKQCHEVLTRGSSANA
 SKWSPPNYKKRVAALEAKQKPSTSQSQGLTRQDQMIAERLARLRQENPKLVPSQAEIEARLAALKDER
 QGSIPSTQEMEARLAALQGRVLPSTPQPAHHTPDTRTQAQQTQDLLTQLAAEVAIDESWKGGGPAASLQ
 NDLNQGGPGSTNSKRQANWSLEEEKSRLLAEEALELREENTRQERILALAKRLAHLRGQDPERVTLQDYR
 LPDSDDEDEETAIQRLVQLTEEASLDEASGFNIPAEQASRPWTQPRGAEPEAQDVPDPRPEAEELLPW
 CCICNEDATLRCAGCDGDLFCARCFREGHDAFELKEHQTSAYSPPRAGQEH

TRTRPLE – GFP Tag – V

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.

RefSeq: [NM_001077268.2](#)

RefSeq Size: 2293 bp

RefSeq ORF: 1416 bp

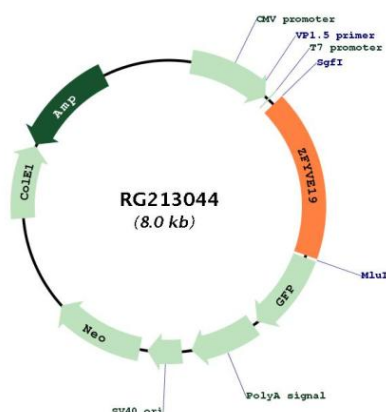
Locus ID: 84936

UniProt ID: [Q96K21](#)

Cytogenetics: 15q15.1

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 RG213044