

Product datasheet for **RG234169**

ZFYVE19 (NM_032850) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZFYVE19 (NM_032850) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG234169 representing NM_032850
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAGCAGTGGCCGAGGCGCTAGGACAGGAAGGACCGCCAGACCTCTCAAGATCAGCCTTCTCGCCA
 CCGTTCTCACCTCTTTGTCCGCTGCCTTCTCTCAATGCCTAGCAGCGCTACAGCCTGCCCTTCTCCAG
 GTCGCTGGAGTTAGATTACCACACTTCTCTGCTTCCGGGGCACCATGGTGAAGGCTGACTGTCCTGTC
 CCTATCACAGACCTGCCAGATTCTCTGGTAACTGCAGTACGGCTGTAAGAATTGTGGCAGGGCCTTCT
 GTTCAGGCTGCCTAAGCTTCAGTGCAGCAGTGCCTCGGACTGGGAACACCCAACAGAAAGCTGCAAGCA
 ATGCCATGAGGTCTGACCAGAGGTCTTCTGCCAATGCCTCCAAGTGGTACCACCTCAGAACTATAAG
 AAGCGTGTGGCAGCCTTGAAGCCAAGCAAAAGCCAGCACTCCAGAGCCAGGACTGACACGACAAG
 ACCAGATGATTGCTGAGCGCTAGCAGACTCCGCCAGGAGAACAAGCCCAAGTTAGTCCCTCACAGGC
 AGAGATAGAGGCACGGCTGGCTGCCCTAAAGGATGAACGTGAGGTTCCATCCCTTCCACCCAGGAAATG
 GAGGCACGACTTGACAGCTTGCAGGGCAGAGTTTACCTTCTCAAACCCCCAGCCGGGCACATCACACAC
 CGGACACCAAGGCCAAGCCAGCAGACACAGGATCTGCTAACGCAGCTGGCAGCTGAGGTGGCTATCGA
 TGAAAGCTGGAAGGAGGAGGCCAGCTGCCTCTCTCCAGAATGATCTCAACCAGGTTGGCCAGGGAGC
 ACTAATCCAAGAGGCAGGCCAACTGGTCTTGGAGGAGGAGAAGAGCAGACTGCTGGCTGAGGCAGCAC
 TTGAGTTGCGGGAGGAGAACACGAGGCAGGAACGGATTCTGGCCCTGGCCAAGCGACTAGCCATGCTGCG
 GGGACAGGACCCGAGAGAGTGACCTCCAGGACTATCGCTCCAGACAGTGATGACGACGAGGATGAG
 GAGACAGCCATCCAAAGAGTCTGCAGCAGCTCACTGAAGAAGCTTCCCTGGATGAGGCAAGTGGCTTTA
 ACATCCCTGCAGAGCAGGCTTCTCGACCTGGACGCAACCCCGGGGGCAGAGCCTGAGGCCAGGATGT
 GGACCCAGGCTGAGGCTGAGGAAGAGAGTCCCTGGTGTGCTGCAATGAGGATGCCACCCCTA
 CGCTGCGCTGGCTGCGATGGGGACCTTCTGTGCCCGCTGCTTCCGAGAGGGCCATGATGCCTTTGAGC
 TTAAGAGCACCAGACATCTGCCTACTCTCTCCACGTGCAGGCCAAGAGCAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

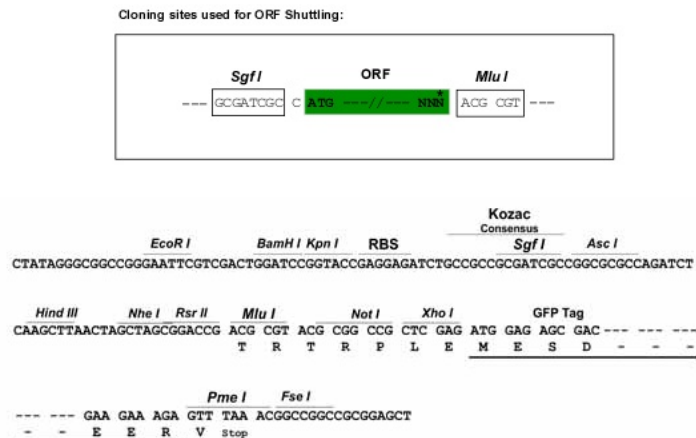
>RG234169 representing NM_032850
 Red=Cloning site Green=Tags(s)

MPAVAEALGQEGPPDLRSFAFLATVLTLSAASFSSMPSSAYSLSLPSRSLELDYHTSSCFRGTMTVKADCPV
 PITDLPDSSGKLQYGCKNCGRAFCGCLSFSAVPRTGNTQQKVCKQCHEVLTRGSSANASKWSPQNYK
 KRVAALEAKQKPSTSQSQGLTRQDQMIARLARLRQENPKLVPSQAEIEARLAALKDERQGSIPSTQEM
 EARLAALQGRVLPSTPQPAHHTPDTRTQAQQTQDLLTLQAAEVAIDESWKGGGPAASLQNDLNQGGPGS
 TNSKRQANWSLEEEKSRLLAEAAELREENTRQERILALAKRLAMLRGQDPERVTLQDYRLPDSDDEDE
 ETAIQRVLQQLTEEASLDEASGFNIPAEQASRPWTQPRGAEPEAQDVPDPRPEEEEEELPWCCICNEDATL
 RCAGCDGDLFCARCFREGHDFAELKEHQTSAISPPRAGQEH

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_032850

ORF Size: 1383 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_032850.5](#)

RefSeq Size: 1962 bp

RefSeq ORF: 1386 bp

Locus ID: 84936

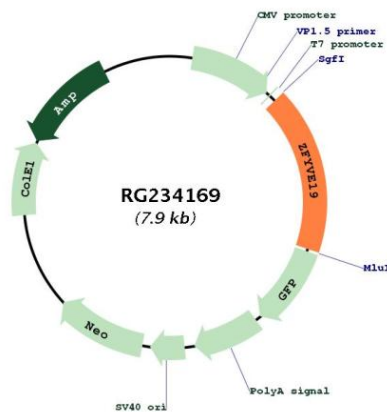
UniProt ID: [Q96K21](#)

Cytogenetics: 15q15.1

Domains: FYVE

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 RG234169