

Product datasheet for **RC233685**

ZFYVE19 (NM_001258421) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZFYVE19 (NM_001258421) 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)
ORF Nucleotide Sequence:	>RC233685 representing NM_001258421 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATTGCTGAGCGCTAGCACGACTCCGCCAGGAGAACAAGCCCAAGTTAGTCCCCTCACAGGCAGAGA
TAGAGGCACGGCTGGCTGCCCTAAAGGATGAACGTCAGGGTTCCATCCCTTCCACCCAGGAAATGGAGGC
ACGACTTGCAGCGTTGCAGGGCAGAGTTCTACCTTCTCAAACCCCCAGCCGGCACATCACACCCGGAC
ACCAGGACCCAAGCCCAGCAGACACAGGATCTGCTAACGCAGCTGGCAGCTGAGGTGGCTATCGATGAAA
GCTGGAAGAGGAGGCCAGCTGCCTCTCTCCAGAATGATCTCAACCAGGTGGCCAGGGAGCACTAA
TTCCAAGAGGCAGGCCAACTGGTCCTTGGAGGAGGAGAAGAGCAGACTGCTGGCTGAGGCAGCACTTGAG
TTGCGGGAGGAGAACACGAGGCAGGAACGATTCTGGCCCTGGCCAAGCGACTAGCCATGCTGCGGGGAC
AGGACCCCGAGAGAGTGACCTCCAGGACTATCGCCTCCAGACAGTGATGACGACGAGGATGAGGAGAC
AGCCATCCAAAGAGTCTGCAGCAGCTCACTGAAGAAGCTTCCCTGGATGAGGCAAGTGGCTTTAACATC
CCTGCAGAGCAGGCTTCTCGACCTGGACGCAACCCCGGGGCGAGAGCCTGAGGCCAGGATGTGGACC
CCAGGCCTGAGGCTGAGGAAGAGGAGCTCCCCTGGTGTGCATCTGCAATGAGGATGCCACCCTACGCTG
CGCTGGCTGCGATGGGGACCTCTTCTGTGCCCGCTGCTCCGAGAGGGCCATGATGCCTTTGAGCTTAA
GAGCACCAGACATCTGCCTACTCTCCTCACGTGCAGGCCAAGAGCAC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233685 representing NM_001258421

Red=Cloning site Green=Tags(s)

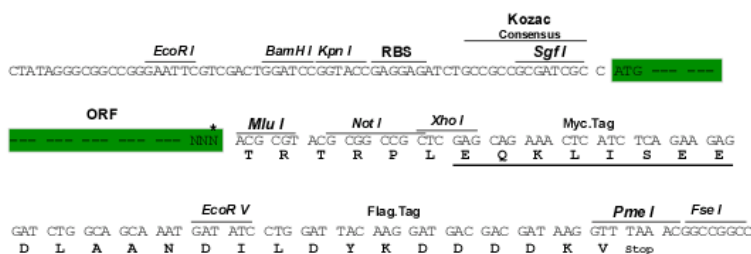
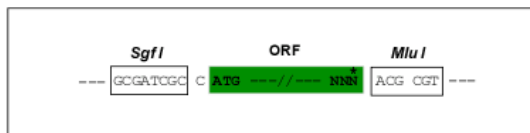
MIAERLARLRQENPKPLVPSQAEIEARLAALKDERQGSIPSTQEMEARLAALQGRVLPSTQTPQPAHHTPD
 TRTQAQQTQDLLTLQLAAEVAIDESWKGGAASLQNDLNGGGPGSTNSKRQANWSLEEEKSRLLAEAALE
 LREENTRQERJLALAKRLAMLRGQDPERVTLQDYRLPDSDDEDEETAIQRVLQQLTEEASLDEASGFNI
 PAEQASRPWTQPRGAPEAQDVPDRPEAEELPWCCICNEDATLRACAGCDGLFCARCFREGHDAFELK
 EHOTSAYSPPRGAOEH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 001258421

ORF Size: 888 bp

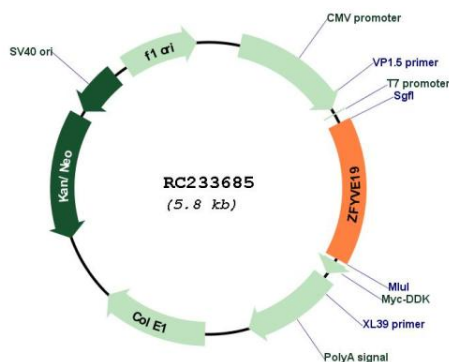
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_001258421.2</u>
RefSeq Size:	2096 bp
RefSeq ORF:	891 bp
Locus ID:	84936
UniProt ID:	<u>Q96K21</u>
Cytogenetics:	15q15.1
MW:	33.4 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 RC233685