

Product datasheet for **RC239511**

ZFYVE1 (NM_001281734) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZFYVE1 (NM_001281734) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZFYVE1
Synonyms:	DFCP1; PPP1R172; SR3; TAFF1; ZNFN2A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC239511 representing NM_001281734
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGAGTGGCCAGACTTCCCCAGCAGAGAAGGGCCTGAATCCGGGGCTGATGTGCCAGGAAAGTTACGCTT
 GCAGCGGGACTGATGAAGCTATCTTTGAGTGTGATGAGTGTGAGTCTGCAGTCTGCAGTGTCTCCGCTGCGAGGA
 GGAGCTCCATCGGCAGGAGCGCCTGAGAAACCATGAGCGGATAAGACTCAAACCTGGCCATGTCCCTTAC
 TGTGACCTCTGCAAGGGTCTCAGTGGGCATTTACCAGGTGTTAGGCAGAGGGCAATAGTGAGGTGCCAGA
 CCTGCAAAATTAACCTGTGCCTGGAGTGCCAGAAGAGGACTCATTCTGGGGTAACAAAAGGAGACACCC
 TGTTACTGTGTACAATGTCAGTAATCTCCAGGAGTCACTGGAGGCAGAAGAGATGGATGAGGAGACCAAG
 AGGAAGAAGATGACTGAGAAGTTGTGAGTTTCTCTAGTAGACGAAAATGAAGAAATTCAGGTAACAA
 ATGAAGAAGACTTTATTAGAAAATTGGACTGCAAACTGATCAGCATCTGAAAGTGGTTTCCATTTTTGG
 AAATACTGGTGATGGAAAGTCTCATACTCTCAACCACACTTTCTTTATGGTCGTGAAGTCTTTAAACC
 TCCCCGACCCAGGAGTCTGCACTGTGGGAGTGTGGGCAGCCTATGACCCAGTTCACAAAGTAGCAGTGA
 TCGATACGGAAGGGCTCCTGGGGGCCACCGTGAATCTAAGCCAGAGAACACGGCTGCTGCTTAAGGTCTCT
 GGCCATCTCAGACCTCGTCATCTATCGAACTCATGCAGACCGGCTGCATAACGACCTCTTCAAATTCCTT
 GGGGATGCCTCAGAAGCTTATCTGAAGCACTTCACCAAGGAGCTCAAGGCCACCACTGCTCGCTGTGGCC
 TGGATGTCCCTTTATCCACACTGGGCCCTGCAGTTATCATCTTCCATGAGACCGTGACACCCAGCTACT
 GGGCTCTGATCATCCCTCAGAGGTGCCAGAGAAGCTCATCCAGGACCGGTTCCGGAAGCTGGGCCGTTTC
 CCTGAAGCCTTTAGTTCCATTCACTACAAGGGAACGAGGACTTACAACCTCCCACGGACTTTTCTGGGC
 TTCGGCGTGCTTTGGAGCAGCTACTAGAGAATAACACCACCCGTTCTCCCGGCACCCGGGAGTCATCTT
 CAAAGCCCTGAAGGCACTAAGTGACCGCTTCAGCGGTGAGATCCCGATGACCAGATGGCGCACAGCTCC
 TTTTTTCCAGATGAGTATTTACCTGCTCCTCTGTGCCTCAGCTGTGGGGTTGGATGTAAAGAAAGCA
 TGAATCATGGGAAGGAAGGAGTGCTCATGAAGCCAAGAGCCGCTGCAGATACTCCACCACTATGACAA
 CCGAGTGTATACCTGCAAGGCCTGCTATGAGAGAGGCGAGGAAGTCAGTGTAGTGCCAAAACATCTGCT
 TCCACTGACTCCCCCTGGATGGGTCTCGCAAAATATGCCTGGTCTGGTCGGCAGTACTGGTTTGAAACC
 AAGATCCTGTGGATACGGTGGTGCGGACAGAGATTGTGCATGTGTGGCCTGGAAGTATGGGTTTCTGAA
 GGACAACAACAATGCTGCCCAGCGCCTGTTGGACGGGATGAACCTCATGGCTCAGTCGGTGTCCGAGCTT
 AGCCTTGGACCCACCAAGGCTGTGACTTCTGGCTGACAGACCAGATCGCCCTGCCTACTGGAGGCCCCA
 ACTCCCAGATTCTGAGCTGCAACAAGTGTGCGACGTCCTTTAAAGATAACGACACTAAGCATCACTGCCG
 AGCCTGTGGGGAGGGCTTCTGTGACAGCTGTTCATCAAAGACTCGGCCAGTGCCTGAGCGGGGCTGGGGC
 CCTGCGCCAGTGCGGGTCTGTGACAACCTGCTACGAAGCCAGGAACGTCCAGTTAGCTGTTACCGAGGCAC
 AAGTGGACGATGAAGGTGGAACGCTCATTGCTCGGAAGGTGGGCGAGGCCGTGCAGAACACTCTGGGAGC
 CGTGGTGACAGCCATTGACATACCACTAGGTCTGGTAAAGGACGCGGCCAGGCCTGCGTACTGGGTGCCT
 GACCACGAAATCCTCCACTGCCACAACGCCGGAAGGAGTTCAAGCATCAAGCTCTCAAGCACCAGTCC
 GGGCCTGCGGACAGGGCTTCTGTGATGAGTGCTCCCATGACCGCCGGGCTGTTCTTCTCGTGGCTGGGA
 CCATCCCGTCCGAGTCTGCTTCAACTGCAATAAAAAGCCCGGTGACCTT

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239511 representing NM_001281734
 Red=Cloning site Green=Tags(s)

MSAQTSPA EKGLNPLMCQESYACSGTDEAIFECDECCSLQCLRCEEELHRQERLRNHERIRLKP GHVPY
 CDLCKGLSGHLP GVRQRAIVRCQTCKINLCECQKRTHSGGNKRRHPVTYVNVSNLQESLEAEEMDEETK
 RKKMTEKVVSFLLVDENEEIQVTNEEDFIRKLDCKPDQHLKVVSIFGNTGDGKSHTLNHTFFYGREVFKT
 SPTQESCTVGWAAAYDPVHKVAVIDTEGLLGATVNL SQRTRLLKVL AISDLVIYRTHADRLHNDLFKFL
 GDASEAYLKHFTKELKATTARCLDVP LSTLGP AVIIFHETVHTQLLGSDHPSEVPEKLIQDRFRKLGRF
 PEA FSSIHYKGTRTYNPPTDFSGLRRALEQLLENNTTRSPRHPGVIFKALKALSDRFSGEIPDDQMAHSS
 FFPDEYFTCSSLCLSCGVGCKKSMNHGKEGVPHEAKSRCRYSHQYDNRVYTCKAC YERGEESVVPKTS A
 STDSPWMLAKYAWSGRQYWFNGQDPVDTVVRTEIVHVWPGTDGFLKDN NNAQRLLDGMNFMAQSVSEL
 SLGPTKAVTSWLTDQIAPAYWRPNSQILSCNKCATSFKDNDTKHHCACGEGFCDCSSKTRPVPERGWG
 PAPVRVCDNCYEARNVQLAVTEAQVDDEGGTLIARKVGEAVQNTLGAVVTAIDIPLGLVKDAARPAYWVP
 DHEILHCHNCRKEFSIKLSKHHCRACGGQFCDECSH DRAVPSRGWDHPVRVCFNCNKKPGDL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001281734

ORF Size: 2289 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_001281734.2](#)

RefSeq Size: 4463 bp

RefSeq ORF: 2292 bp

Locus ID: 53349

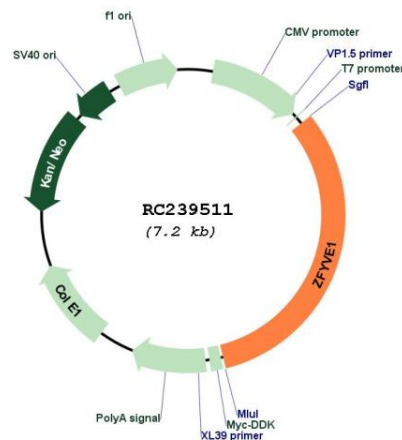
UniProt ID: [Q9HBF4](#)

Cytogenetics: 14q24.2

MW: 86 kDa

Gene Summary: The FYVE domain mediates the recruitment of proteins involved in membrane trafficking and cell signaling to phosphatidylinositol 3-phosphate-containing membranes. This protein contains two zinc-binding FYVE domains in tandem and is reported to localize to the Golgi apparatus. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

Product images:



Circular map for RC239511