

Product datasheet for RC214827

ZFYVE16 (NM_014733) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZFYVE16 (NM_014733) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZFYVE16
Synonyms:	PPP1R69
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC214827 representing NM_014733 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGGACAGTTATTTAAAGCAGCTGTCAGTGACTTGGACAACTCCTTGATGATTTGAACAGAACCAG
ATGAACAAGATTATCTCCAAGATGTACAAAATGCATATGATTCTAACCCTGCTCAGTTTCTTCAGAGTT
GGCTTCTCACAGCGAAGTTTCTTGGCTCCCAAAAGACCAAGAGTGCCTTAATAGTTGTGCCTCATCAGAA
ACAAGCTATGGAACAAAATGAGAGTTCCTGAATGAAAAACACTCAAGGGACTTACTTCTATACAAAATG
AAAAAATGTAACAGGACTTGATCTTCTTCTTCTGTGGATGGTGGTACTTCAGATGAAATCCAGCCGTT
ATATATGGGACGATGTAGTAAACCTATCTGTGATCTGATAAGTGACATGGGTAAGTTCAGTTCATGCAACC
AATAGTGAAGAAGATATTAATAAATTATTGCCAGATGATTTAAAGTCTAATGCAGATTCCTTGATTGGAT
TGGATTTATCTTCAGTGTGAGTACTCCCTGTGTTTCTTCAACAGACCATGATAGTGACTGTGACAGAGA
ACAACAGAATGATATCAGTTCTGAATTACAAAATAGAGAAATCGGAGGAATCAAAGAATTGGGTATAAAA
GTAGATACAACACTTTCAGATTCCTATAAATTACAGTGGACAGAAAAATTTAAAGATAAAAAAGATCTTTA
ATCAGTTAGAATCAATTGTTGATTTAACATGTCTGCTTTGACTCGACAAAAGTTCCAAAATGTTTCA
TGCCAAAGACAAGCTACAACACAAGAGCCAGCCATGTGGATTACTAAAAGATGTTGGCTTAGTAAAAGAG
GAAGTAGATGTGGCAGTCATAACTGCCGAGAATGTTTAAAAGAAGAGGGCAAGACAAGTGTGTTGACCT
GCAGCCTCCGAAAAATGAAGATTTATGCTTAAATGATTCAAATTCAGAGATGAAAAATTTCAAATTACC
TGACTTTTCTTTTCCAGGAAGATAAGACTGTTATAAAAACATCTGCACAAGAAGACTCAAAAAGTTTAGAC
CTTAAGGATAATGATGTAATCCAAGATTCTCTTCAGCTTTACATGTTTCCAGTAAAGATGTGCCGTCCT
CATTGCTCTGCTTCTGCGTCTGGGTCTATGTGTGGATCATTAAATTGAAAGTAAAGCACGGGGTGATTT
TTTACCTCAGCATGAACATAAAGATAATATACAAGATGCAGTGACTATACATGAAGAAAATACAGAACAGT
GTTGTTCTAGGTGGGAACCATCAAAGAGAATGATCTTTTGAACAGGAAAAATGTAAGCATACTCC
TTCAGTCATTAATTGAAGGGATGGAAGACAGAAAGATAGATCCTGACCAGACAGTAAATCAGAGCTGAGTC
TTTGGATGGTGGTACACCAGTTCTACAGTTGTAGAATCTCAAGAGGGGCTTTCTGGCACTCATGTCCCA



[View online »](#)

GAGTCTTCTGATTGTTGTGAAGGTTTTATTAATACTTTTTCAAGCAATGATATGGATGGGCAAGACTTAG
ATTACTTTAATATTGATGAAGGCGCAAAAAGTGGCCCACTAATTAGTGATGCTGAACTTGATGCCTTTCT
GACAGAACAGTATCTTCAGACCACTAACATAAAGTCTTTTTGAAGAAAAATGTAATGACTCTAAATCGCAA
ATGAATCAGATAGATATGAAAGGCTTAGATGATGGAAACATCAATAATATATATTTCAATGCAGAAGCAG
GAGCTATTGGGAAAAGTCATGGTATTAATAATTTGTGAAACAGTTGATAAACAATAACAATAGAAAA
TGGCCTTTCTTTAGGAGAAAAAGCACTATTCCAGTTCAACAAGGTTACCTACCAAGTAAAGTCTGAGATT
ACAAATCAATTATCAGTCTCTGATATTAACAGTCAATCTGTTGGAGGGCCAGACCTAAGCAATTTGTTA
GCCTTCCATCAAGAACAAGGAGTTCAAAGGACCTGAATAAGCCAGATGTTCCAGATACAATAGAAAAGTGA
ACCCAGCACAGCAGATACCGTTGTTCCAATCACTTGTGCTATAGATTCTACAGCTGATCCACAGGTTAGC
TTCAACTCTAATTACATTGATATAGAAAAGTAATTCTGAAGGTGGATCTAGTTTCGTAAGTCAAAATGAAG
ATTCTGTACCTGAAAACACTTGCAAAGAAGGCTTGGTTTTGGGCCAGAAACAGCCTACTTGGGTTCTGTA
TTCAGAAGCTCCAACTGTATGAACTGCCAAGTCAAATTTACTTTTACCAAACGGCGACACCATTGCCGA
GCATGTGGGAAAGTATTTGTGGTGTCTGTTGTAATAGGAAGTAAACTGCAATATCTAGAAAAGGAAG
CAAGAGTATGTAGTCTGCTATGAACTATTAGTAAAGCTCAGGCATTTGAAAGGATGATGAGTCCAAC
TGTTTCTAATCTTAAGTCTAATCATTCTGATGAATGTAAGTACTACTGTCAGCCTCCTCAGGAGAACCAACA
TCCAGTATACCTTACCAGCAACTTTGCCAGTCTCAGCACTTAAACAACCAAGGTTTGAAGGACTATGTT
CCAAAGAACAGAAAGAGATATGGTTTGCAGATGGTATATTGCCCAATGGTGAAGTTGCAGATACAACAAA
ATTATCATCTGGAAGTAAAAGATGTTTCTGAAGACTTTAGTCTCTCACCTGATGTGCCTATGACAGTA
AACACAGTGGATCATTCCCACTTACTACAGTGGAAAAGCCAAACAATGAGACAGGAGATATTACAAGAA
ATGAGATAATTCAGAGTCTATTTCTCAGGTTCCATCAGTGGAAAAATTTGCTATGAACACAGGAAATGA
GGGTTACCTACTTCTGGTTCATTTACACTAGATGATGATTTTTGCAGAACTGAAGAACCATCTAGT
CCTACTGGTGTCTTAGTTAACAGCAATTTACCTATTGCTAGTATTTGAGATTATAGTTACTGTGTGATA
TTAACAAGTATGTCTGCAATAAGATTAGTCTTCTACCTAATGATGAGGACAGTTTGCCCACTTTGTTGGT
TGCATCTGGAGAAAAGGATCAGTGCCTGTAGTAGAAGAACATCCATCTCATGAGCAGATCATTGCTT
CTTGAAGGTGAAGGCTTTCATCCTGTTACATTTGCTCCTAAATGCTAATCTACTCGTGAATGTCAAATTC
TATTTTATTCTCAGACAAAATTTGGTACTTTTCAACCAATGGATTGCATGGCTTGGGACAGGCAGAAAT
TATTATTCTATTGTTATGTTTGGCAAAATGAAGATACTATTCTAAGGACATCTTCAGACTATTTATCACC
ATATATAAGGATGCTCTAAAAGGAAAATACATAGAAAACCTGGACAATATTACCTTTACTGAGAGTTTTT
TCAGTAGCAAGGATCACGGAGGATTCCTGTTTATTACACCTACTTTTTCAGAACTTGATGATCTCTCATT
ACCAAGTAACTCTTTTCTTTGTGGAATTCCTATCCAGAAGCTTGAGATCCCTGGGCAAAGGTTTTCT
ATGCGTTTAAATGTTGAGATTGGGTGCAGAAATATAAAGCATATCCTGCTCCTAACAAGCATCAGAGGCC
GAAAACCTCTTTTTGGAGAAATAGGACACACTATTATGAACTACTTGTGACCTTCGAAATTACCAGTA
TACCTTGCATAATATAGATCAACTGTTGATTCATATGAAATGGGAAAAAGCTGCATAAAAAATACCACGG
AAAAAGTACAGTATGTAATGAAAGTACTAAATCTTCCAATGAGCATGTCATTAGCATTGGAGCAAGTT
TCAGTACAGAAGCAGATTCTCATCTAGTCTGTATACAGAATGATGGAATTTATGAAACACAGGCCAACAG
TGCCACTGGCCATCCTAGAAAAGTACAGGTGCAAGTTTTGTGGTATTCAATGGAGCTCTAAAAACATCT
TCAGGATTTCTTGCTAAGTCCAGCATAGTTGAAGATGGCTTAATGGTACAATAACTCCAGAGACCATGA
CCTGAGAGAATACGTGGATATCTGCTGGGTAGATGCTGAAGAAAAAGGAAACAAGGAGTTATCAGTTCA
GTGGATGGAATATCATTACAAGGATTTCCAAGTAAAAAATAAACTGGAAGCAGATTTTGAACCGATG
AGAAGATTGTAATAATGTACCGAGGTGTTCTACTTTCTAAAGGACCAGGATTTATCTATTTTATCAACTTC
TTATCAGTTTGCAAAAGAAATAGCCATGGCTTGTAGTGTGCGCTGTGCCCTCACCTGAAAACCTCTAAAA
AGTAATGGGATGAATAAAATGGACTCAGAGTTTCCATTGACACTGATATGGTTGAATTTTCAGGCAGGAT
CTGAAGGCCAACTTCTGCCTCAGCATTATCTAAATGATCTTGATAGTGTCTGATACCTGTGATCCATGG
TGGACCTCCAACCTAGTTTACCATTAGAAATAGAATTAGTGTTTTTTCTATAGAACATCTTTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_014733.5](#)

RefSeq Size: 6280 bp

RefSeq ORF: 4620 bp

Locus ID: 9765

Cytogenetics: 5q14.1

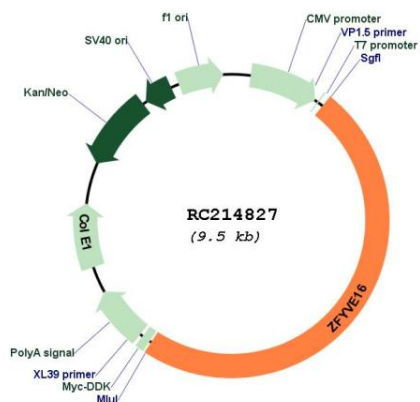
Domains: FYVE

Protein Pathways: TGF-beta signaling pathway

MW: 168.7 kDa

Gene Summary: This gene encodes an endosomal protein that belongs to the FYVE zinc finger family of proteins. The encoded protein is thought to regulate membrane trafficking in the endosome. This protein functions as a scaffold protein in the transforming growth factor-beta signaling pathway and is involved in positive and negative feedback regulation of the bone morphogenetic protein signaling pathway. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]

Product images:



Circular map for RC214827