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Product datasheet for SC114882

ZFYVE16 (NM_014733) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZFYVE16 (NM_014733) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZFYVE16
Synonyms:	PPP1R69
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC114882 sequence for NM_014733 edited (data generated by NextGen Sequencing)

ATGGACAGTTATTTTAAAGCAGCTGTCAGTGACTTGGACAAACTCCTTGATGATTTTGAA
CAGAACCCAGATGAACAAGATTATCTCCAAGATGTACAAAATGCATATGATTCTAACCAC
TGCTCAGTTTCTTCAGAGTTGGCTTCCTCACAGCGAACTTCATTGCTCCCAAAAGACCAA
GAGTGCGTTAATAGTTGTGCCTCATCAGAAACAAGCTATGGAACAAATGAGAGTTCCCTG
AATGAAAAAACACTCAAGGGACTTACTTCTATACAAAATGAAAAAAATGTAACAGGACTT
GATCTTCTTTCTTCTGTGGATGGTGGTACTTCAGATGAAATCCAGCCGTTATATATGGGA
CGATGTAGTAAACCTATCTGTGATCTGATAAGTGACATGGGTAACTTAGTTCATGCAACC
AATAGTGAAGAAGATATTAAAAAATTATTGCCAGATGATTTTAAGTCTAATGCAGATTCC
TTGATTGGATTGGATTTATCTTCAGTGTCAGATACTCCCTGTGTTTCTTCAACAGACCAT
GATAGTGATACTGTCAGAGAACAACAGAATGATACCAGTTCTGAATTACAAAATAGAGAA
ATCGGAGGAATCAAAGAATTGGGTATAAAAGTAGATACAACACTTTCAGATTCCTATAAT
TACAGTGGAACAGAAAATTTAAAAGATAAAAAGATCTTTAATCAGTTAGAATCAATTGTT
GATTTTAACATGTCATCTGCTTTGACTCGACAAAGTTCCAAAATGTTTCATGCCAAAGAC
AAGCTACAACACAAGAGCCAGCCATGTGGATTACTAAAAGATGTTGGCTTAGTAAAAGAG
GAAGTAGATGTGGCAGTCATAACTGCCGCAGAATGTTTAAAAGAAGAGGGCAAGACAAGT
GCTTTGACCTGCAGCCTTCCGAAAAATGAAGATTTATGCTTAAATGATTCAAATTCAAGA
GATGAAAATTTCAAATTACCTGACTTTTCCTTTCAGGAAGATAAGACTGTTATAAAACAA
TCTGCACAAGAAGACTCAAAAAGTTTAGACCTTAAGGATAATGATGTAATCCAAGATTCC
TCTTCAGCTTTACATGTTTCCAGTAAAGATGTGCCGTCCTCATTGTCCTGTCTTCCTGCG
TCTGGGTCTATGTGTGGATCATTAATTGAAAGTAAAGCACGGGGTGATTTTTTACCTCAG
CATGAACATAAAGATAATATACAAGATGCAGTGACTATACATGAAGAAATACAGAACAGT
GTTGTTCTAGGTGGGGAACCATTCAAAGAGAATGATCTTTTGAAACAGGAAAAATGTAAA
AGCATACTCCTTCAGTCATTAATTGAAGGGATGGAAGACAGAAAGATAGATCCTGACCAG
ACAGTAATCAGAGCTGAGTCTTTGGATGGTGGTGACACCAGTTCTACAGTTGTAGAATCT
CAAGAGGGGCTTTCTGGCACTCATGTCCCAGAGTCTTCTGATTGTTGTGAAGGTTTTATT

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AATACTTTTTCAAGCAATGATATGGATGGGCAAGACTTAGATTACTTTAATATTGATGAA
GGCGCAAAAAGTGGCCCACTAATTAGTGATGCTGAACTTGATGCCTTTCTGACAGAACAG
TATCTTCAGACCACTAACATAAAGTCTTTTGAAGAAAATGTAAATGACTCTAAATCGCAA
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GAGAGTTTTCTCAGTAGCAAGGATCACGGAGGATTCCTGTTTATTACACCTACTTTTCAG
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CGAGAACAGAAAGACTTTAAAATTACATGTGGGAAAGTTGATGCAGTAGACCTGAGAGAA
TACGTGGATATCTGCTGGGTAGATGCTGAAGAAAAAGGAAACAAAGGAGTTATCAGTTCA
GTGGATGGAATATCATTACAAGGATTTCCAAGTGAAAAAATAAAACTGGAAGCAGATTTT
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GCGCTGTGCCCTCACCTGAAAACTCTAAAAAGTAATGGGATGAATAAAATTGGACTCAGA
GTTTCCATTGACACTGATATGGTTGAATTTCAGGCAGGATCTGAAGGCCAACTTCTGCCT
CAGCATTATCTAAATGATCTTGATAGTGCTCTGATACCTGTGATCCATGGTGGGACCTCC
AACTCTAGTTTACCATTAGAAATAGAATTAGTGTTTTTCATTATAGAACATCTTTTTTAG

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Clone variation with respect to NM_014733.3
575 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014733 unedited
NGTTACACATTTTGTATACGACTCCTATAGGCGGCNCGCGATTCGGCACCAGGGCCGGGG
TAGCTCTTCACTCCTCAGCGCGACGTCGTGTCGAGTTCCCAAAAAGCTCCGCAGGGGCTG
TAGGGAGATTCCTGTGAGGTTTCTCGGGCTTATTTGGTGGAGTTTCTGTTCCAGACCAGA
GGCATACAAGAATTAAATTCTGAATAAGTCTGCAGGTAGGATGGACAGTTATTTTAAAGC
AGCTGTCAGTGACTTGGACAAACTCCTTGATGATTTTGAACAGAACCCAGATGAACAAGA
TTATCTCCAAGATGTACAAAATGCATATGATTCTAACCACTGCTCAGTTTCTTCAGAGTT
GGCTTCCTCACAGCGAACTTCATTGCTCCCAAAAGACCAAGAGTGCGTTAATAGTTGTGC
CTCATCAGAAACAAGCTATGGAACAAATGAGAGTTCCCTGAATGAAAAAACACTCAAGGG
ACTTACTTCTATACAAAATGAAAAAAATGTAACAGGACTTGATCTTCTTTCTTCTGTGGA
TGGTGGTACTTCAGATGAAATCCAGCCGTTATATATGGGACGATGTAGTAAACCTATCTG
TGATCTGATAAGTGACATGGGTAACTTAGTTCATGCAACCAATAGTGAAGAAGATATTAA
AANATTATTGCCAGATGATTNTAAGTCTAATGCAGATTCCTTGATTGGATTGGATTTATC
TTCAGTGTCAGATACTCCCTGTGTTTCTTCAACAGACCATGATAGTGATACTGTCAGAGA
AACACAGAATGATACCAGTTCTGAATTACCAAATAGAGAAATCGGAGGAATCAAGAATTG
GGTATTAAAGTAGATACAACACTTTCAGATTCCTATAATTACAGTGGAACCGGAAAATTT
AAAGATAAAAGATCTTCATCAGTTAGAATCAATTGTTGT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014733 unedited
NTTTTACTTGAACCCGNCCGCATCTANGATCGGTTTTTTTTTTTTTTTTTATTTTAATA
TCCATTTAATCAGGGGAAAACTATATATGTGGGATATATAATACATACATATGTAATAAT
TTGAGAAGAAAAAAGCAAAATTCTGATTATAATCCAAAAAGAGTTTATCTAATTATGGAG
GTAGGTCTCCACTCCAATTATACAAATAAGTTATCAGTTTTATTCAAAGAATTATAAGTC
TAACACCCTCAAAACTGGTTTTTGTGCCCCCTGAAATACACTTCGACCCACTTTAGAAAC
CACCATTCTATCTGCCCTATCCCCATATCCACCATTTTCTTCCTCCGGCACACTTCCCAA
CAGATCCTTACACTAACTCTTATTCGCCATAAAAAGCCCTCCCTCCCCCCCATCCCTCCC
CCTCCCACTCTCCTCCCTCCCCTACCTCTCCCATCTTCCCATCCAACTCTCCCGTTACTA
TCACCACACCTCTACTCTTCTCCACTACTCCCTCTAATTCTCCACACCCTTTGCATCCTT
TCGACCCTCCCCTCATCTCTCATCACATCTCCTACCCACTACGCATTTCCACTTGCACCC
CTCCTCTCTCTCCTATCCCTCCATTCACACCCCTCCGTACTTATATACATCTCCCTTAAC
TCCCCCCCCTCCATTTTTCCTTACTTTTTTCCTTCGTTGTTCTCTCTCCCTTCCACCTTC
TCTTCCCCCCCCCCCCTCTCCTACTCTCTACCCTACAGCTACACCCCTACCTCCCTCACCT
ACTCCTACCCCGCCCTCCCCCCACTCTCTAGCCGCTCTCCCCTCTCCTCTCTCATTTTCT
TTCTCCGTATCGCTCTCTCCTGACTTCGCTTATCGCCTCGNCCCGCATCGTCACTCACCC
TCTACTACCCCATTCTCCTTCACCCTCTTTCCCGACCACCAAATCCTCCATTACACCCCC
ACATCCCCTCCCCCATACCN

Restriction Sites: NotI-NotI

ACCN: NM_014733

Insert Size: 6000 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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).

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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_014733.2, NP_055548.2

RefSeq Size: 6280 bp

RefSeq ORF: 4620 bp

Locus ID: 9765

Cytogenetics: 5q14.1

Domains: FYVE

Protein Pathways: TGF-beta signaling pathway

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]
Transcript Variant: This variant (1) encodes the longer isoform (a). Variants 1, 2, 3 and 5 encode the same protein (isoform a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.

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