

## Product datasheet for **SC317170**

### ZFYVE16 (NM\_001105251) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ZFYVE16 (NM\_001105251) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** ZFYVE16  
**Synonyms:** PPP1R69  
**Vector:** pCMV6 series

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001105251, the custom clone sequence may differ by one or more nucleotides

```
ATGGACAGTTATTTTAAAGCAGCTGTCAGTGACTTGGACAACTCCTTGATGATTTTGAA
CAGAACCAGATGAACAAGATTATCTCCAAGATGTACAAAATGCATATGATTCTAACCAC
TGCTCAGTTTCTCAGAGTTGGCTTCTCACAGCGAACTTCATTGCTCCCAAAAGACCAA
GAGTGCCTTAATAGTTGTGCCTCATCAGAAACAAGCTATGGAACAATGAGAGTTCCTG
AATGAAAAAACTCAAGGGACTTACTTCTATACAAAATGAAAAAATGTAAACAGGACTT
GATCTTCTTTCTGTGGATGGTGGTACTTCAGATGAAATCCAGCCGTTATATATGGGA
CGATGTAGTAAACCTATCTGTGATCTGATAAGTGACATGGGTAACCTAGTTCATGCAACC
AATAGTGAAGAAGATATTAATAAATTATTGCCAGATGATTTTAAAGTCTAATGCAGATTCC
TTGATTGGATTGGATTTATCTTCAGTGTGAGATACTCCCTGTGTTTCTTCAACAGACCAT
GATAGTGATACTGTCAGAGAACAACAGAATGATATCAGTTCGAATTACAAAATAGAGAA
ATCGGAGGAATCAAAGAAATGGGTATAAAAAGTAGATACAACACTTTCAGATTCCTATAAT
TACAGTGGAAACAGAAAATTTAAAAGATAAAAAGATCTTTAATCAGTTAGAATCAATTGTT
GATTTTAAACATGTCATCTGCTTTGACTCGACAAAGTCCAAAATGTTTCATGCCAAAGAC
AAGCTACAACACAAGAGCCAGCCATGTGGATTACTAAAAGATGTTGGCTTAGTAAAAGAG
GAAGTAGATGTGGCAGTCATAACTGCCGCAGAATGTTTAAAAGAAGAGGGCAAGCAAGT
GCTTTGACCTGCAGCCTCCGAAAAATGAAGATTTATGCTTAAATGATTCAAATCAAGA
GATGAAAATTTCAAATTACCTGACTTTTCTTTTCAGGAAGATAAGACTGTTATAAAACAA
TCTGCACAAGAAGACTCAAAAAGTTTAGACCTTAAGGATAATGATGTAATCCAAGATTCC
TCTTCAGCTTTACATGTTTCCAGTAAAGATGTGCCGCTCCTATTGTCTGTCTTCTGCG
TCTGGGTCTATGTGTGGATCATTAAATGAAAGTAAAGCACGGGGTATTTTTTACCTCAG
CATGAACATAAAGATAATATAAAGATGCAGTGACTATACATGAAGAAATACAGAACAGT
GTTGTTCTAGGTGGGAACCAATCAAAGAGAATGATCTTTTGAACAGGAAAAATGTAAA
AGCATACTCCTTCAGTCATTAATTGAAGGGATGGAAGACAGAAAGATAGATCCTGACCAG
ACAGTAATCAGAGCTGAGTCTTTGGATGGTGGTACACCAGTTCTACAGTTGTAGAACT
CAAGAGGGGCTTTCTGGCACTCATGTCCAGAGTCTTCTGATTGTTGTGAAGTTTTATT
AATACTTTTTCAAGCAATGATATGGATGGGCAAGACTTAGATTACTTTAATATTGATGAA
GGCGCAAAAAGTGGCCCACTAATTAGTGATGCTGAACTTGATGCCTTTCTGACAGAACAG
TATCTTCAGACCACTAACATAAAGTCTTTTGAAGAAAATGTAATGACTCTAAATCGCAA
ATGAATCAGATAGATATGAAAGGCTTAGATGATGGAAACATCAATAATATATATTTCAAT
```



[View online >](#)

GCAGAAGCAGGAGCTATTGGGAAAGTCATGGTATTAATAAATTTGTGAAACAGTTGAT  
 AAACAAAATACAATAGAAAATGGCCTTTCTTTAGGAGAAAAAAGCACTATTCCAGTTCAA  
 CAAGGGTTACCTACCAGTAAGTCTGAGATTACAAATCAATTATCAGTCTCTGATATTAAC  
 AGTCAATCTGTTGGAGGGGCCAGACCTAAGCAATTGTTTAGCCTTCCATCAAGAACAAGG  
 AGTTCAAAGGACCTGAATAAGCCAGATGTTCCAGATACAATAGAAAGTGAACCCAGCACA  
 GCAGATAACCGTTGTTCCAATCACTTGTGCTATAGATTCTACAGCTGATCCACAGGTTAGC  
 TTCAACTCAATTACATTGATATAGAAAGTAATTCTGAAGGTGGATCTAGTTTCGTAAT  
 GCAAATGAAGATTCTGTACCTGAAAACACTTGCAAAGAAGGCTTGGTTTTGGGCCAGAAA  
 CAGCCTACTTGGGTTCTGATTGAGAAGCTCCAAAGTGTATGAACTGCCAAGTCAAATTT  
 ACTTTTACCAAACGGCGACACCATTGCCGAGCATGTGGGAAAGTATTTTGTGGTGTCTGT  
 TGTAATAGGAAGTAAACTGCAATATCTAGAAAAGGAAGCAAGAGTATGTGTAGTCTGC  
 TATGAACTATTAGTAAAGCTCAGGCATTTGAAAGGATGATGAGTCCAAGTGGTTCTAAT  
 CTTAAGTCTAATCATTCTGATGAATGTACTACTGTCCAGCCTCCTCAGGAGAACCAAACA  
 TCCAGTATACCTTACCAGCAACTTTGCCAGTCTCAGCACTTAAACAACCAGGTGTTGAA  
 GGACTATGTTCCAAAGAACAAGAGAGTATGGTTTGCAGATGGTATATTGCCAAATGGT  
 GAAGTTGCAGATACAACAAAATATCATCTGGAAGTAAAAGATGTTCTGAAGACTTTAGT  
 CCTCTCTCACCTGATGTGCCTATGACAGTAAACACAGTGGATCATTCCCATTCTACTACA  
 GTGGAAAAGCCAAAACAATGAGACAGGAGATATTACAAGAAATGAGATAATTCCAGAGTCT  
 ATTTCTCAGGTTCCATCAGTGGAAAAATTTGTCTATGAACACAGGAAATGAGGGGTTACCT  
 ACTTCTGGTTCATTTACTAGATGATGATGTTTTTGCAGAACTGAAGAACCATCTAGT  
 CCTACTGGTGTCTTAGTTAACAGCAATTTACCTATTGCTAGTATTTCCAGATTATAGGTTA  
 CTGTGTGATATTAACAAGTATGTCTGCAATAAGATTAGTCTTCTACCTAATGATGAGGAC  
 AGTTTCCCCCACTTCTGGTTGCATCTGGAGAAAAGGGATCAGTGCCTGTAGTAGAAGAA  
 CATCCATCTCATGAGCAGATCATTTTGGTCTTGAAGGTGAAGGCTTTCATCCTGTTACA  
 TTTGTCCTAAATGCTAATCTACTCGTGAATGTCAAATTCATATTTTATTCCCTCAGACAAA  
 TATTGGTACTTTTCAACCAATGGATTGCATGGCTTGGGACAGGCAGAAATATTATTCTA  
 TTGTTATGTTTGCCAAATGAAGATACTATTCTAAGGACATCTTCAGACTATTTATCACC  
 ATATATAAGGATGCTCTAAAAGGAAAATACATAGAAAACCTGGACAATATTACCTTTACT  
 GAGAGTTTTCTCAGTAGCAAGGATCACGGAGGATTCCTGTTTATTACACCTACTTTTCAG  
 AAAGTTGATGATCTCTCATTACCAAGTAATCCTTTTCTTGTGGAATTCTATCCAGAAG  
 CTTGAGATTCCCTGGGCAAGGTTTTTCTATGCGTTTAAATGTTGAGATTGGGTGCAGAA  
 TATAAAGCATATCCTGCTCCTCTAACAAGCATCAGAGGCCGAAAACCTCTTTTTGGAGAA  
 ATAGGACACACTATTATGAACTTACTTGTGACCTTCGAAATTACCAGTATACCTTGCAT  
 AATATAGATCAACTGTTGATTATATGAAAATGGGAAAAAGTGCATAAAAAATACCACGG  
 AAAAAGTACAGTATGTAATGAAAGTACTAAAATCTTCCAATGAGCATGTCATTAGCATT  
 GGAGCAAGTTTTCAGTACAGAAGCAGATTCTCATCTAGTCTGTATACAGAATGATGGAATT  
 TATGAAACACAGGCCAACAGTGCCACTGGCCATCCTAGAAAAGTACAGGTGCAAGTTTT  
 GTGGTATTCAATGGAGCTCTAAAAACATCTTCAGGATTTCTTGTAAAGTCCAGCATAGTT  
 GAAGATGGCTTAAATGGTACAAAATAACTCCAGAGACCATGAATGGCTTGGCGCTAGCTTTA  
 CGAGAACAGAAAAGACTTTAAAATTACATGTGGGAAAGTTGATGCAGTAGACCTGAGAGAA  
 TACGTGGATATCTGCTGGGTAGATGCTGAAGAAAAGGAAAACAAAGGAGTTATCAGTTCA  
 GTGGATGGAATATCATTACAAGGATTTCCAAGTAAAAATAAACTGGAAGCAGATTTT  
 GAAACCGATGAGAAGATTGTAATGTACCGAGGTGTTCTACTTTCTAAAGGACCAGGAT  
 TTATCTATTTTCAACTTCTTATCAGTTTGCAAAAGAAATAGCCATGGCTTGTAGTGCT  
 GCGCTGTGCCCTCACCTGAAAACCTAAAAAGTAATGGGATGAATAAAATGGACTCAGA  
 GTTTCCATTGACTGATATGGTTGAATTTGAGGAGGATCTGAAGGCCAACTTCTGCCT  
 CAGCATTATCTAAATGATCTTGATAGTGTCTGATACCTGTGATCCATGGTGGGACCTCC  
 AACTCTAGTTTACCATTAGAAAATAGAATTAGTGTTTTTTATTATAGAACATCTTTTT

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_001105251

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001105251.1</a></u> , <u><a href="#">NP_001098721.1</a></u>
<b>RefSeq Size:</b>	7224 bp
<b>RefSeq ORF:</b>	4620 bp
<b>Locus ID:</b>	9765
<b>Cytogenetics:</b>	5q14.1
<b>Protein Pathways:</b>	TGF-beta signaling pathway
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. 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.</p>