

## Product datasheet for **RC226406**

### ZFYVE16 (NM\_001105251) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZFYVE16 (NM_001105251) 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:	>RC226406 representing NM_001105251 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACAGTTATTTAAAGCAGCTGTCAGTGACTTGGACAACTCCTTGATGATTTGAACAGAACCAG  
ATGAACAAGATTATCTCCAAGATGTACAAAATGCATATGATTCTAACACTGCTCAGTTTCTTCAGAGTT  
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ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC226406 representing NM\_001105251  
Red=Cloning site Green=Tags(s)

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MDSYFKA AVSDLDKLLDDFEQNPDEQDYLQDVQNA YDSNHCSVSSELASSQR TSLLPKDQECVN SCASSE
TSYGTNESSLNEKTLKGLTSIQNEKNTGLDLLSSVDGGTSDEIQPL YMGRC SKPICDLISDMGNLVHAT
NSEEDIKKLLPDDFKSNADSLIGLDLSSVS DTPCVSSTDHSDTVREQQNDISSELQNREIGGIKELGIK
VD T T L S D S Y N Y S G T E N L K D K K I F N Q L E S I V D F N M S S A L T R Q S S K M F H A K D K L Q H K S O P C G L L K D V G L V K E
EVDVAVITAAECLKEEGKTSALTC SLPKNE DLCLNDSNSR DENFKLPDF SFQEDKT VIKQSA QEDSKSLD
LKDNDVIQDSSS ALHVSSKDVPSSLSCLPASGSMCGSLIESKARGDFLPQHEHKDNIQDAV TIHEEIQNS
VVLGGEPFKENDLLKQEKC SILLQSLIEGMEDRKIDPDQTVIRAESLDGGDT SSTV VESQEGLSGTHVP
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LEGE GFHPVT FVLNANLLVNKFI FYSSDKYWFSTNGLHGLGQAEII I LLLCLPNEDTIPKIDIFRLFIT
IYKDALKGK YIENLDNITFTESFLSSKDHGGFLFITPTFQK LDDL SLPN PFLCGIL IQKLEIPWAKVFP
MRLMLRLGAEYKAYPAPLTSIRGRKPLFGEIGHTIMNLLVDLRNYQYTLHNIDQLL IHMEMGKSCIKIPR
KKYSVMKVLNSSNEHVISIGASFSTEADSHLVCIQNDGIYETQANSATGHRKVTGASFVVFNGALKTS
SGFLAKSSIVEDGLMVQITPETMNGRLRALREQDKFKITCGKVD AVDLREYVDICWVDAEEKGNKGVISS
VDGISLQGF PSEKIKLEADFETDEKIVKCTEFVFYFLKDQDL SILSTS YQFAKEI AMACSAALCPHLKTLK
SNGMNKIGLRVSIDTDMVEFQAGSEGLLPQH YLNLDL S ALIPVIHGGTSNSS LPLEIELVFFIIEHLF
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



CTATAGGGCGGCGCGGAATTCGTCGACTGGATCCGGTACCAGGAGATCTGCCGCCGCGATGGC C ATG ... TGA

EcoRI                  BamHI KpnI                  RBS                  Kozac Consensus                  SgfI

ORF + MluI                  NotI                  XhoI                  Myc.Tag

ACG CGT                  ACG GGG CCG CTC GAG CAG AAA CTC ATC TCA GAA GAG  
T R T R P L E Q K L I S E E

EcoRV                  Flag.Tag                  PmeI                  FseI

GAT CTG GCA GCA AAT GAT ATC CTG GAT TAC AAG GAT GAC GAC GAT AAG GTT TAA ACGGCGGGCC  
D L A A N D I L D Y K D D D D K V stop

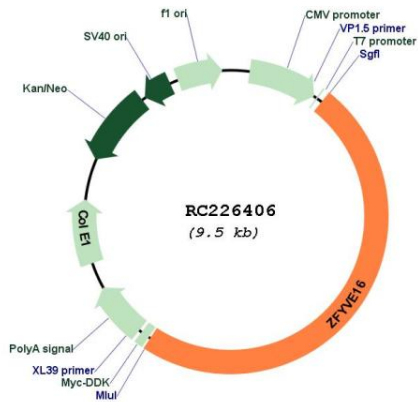
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001105251

**ORF Size:** 4617 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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>	<p><a href="#">NM_001105251.3</a></p>
<b>RefSeq Size:</b>	<p>7420 bp</p>
<b>RefSeq ORF:</b>	<p>4620 bp</p>
<b>Locus ID:</b>	<p>9765</p>
<b>Cytogenetics:</b>	<p>5q14.1</p>
<b>Protein Pathways:</b>	<p>TGF-beta signaling pathway</p>
<b>MW:</b>	<p>168.9 kDa</p>
<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>

Product images:



Circular map for RC226406