

## Product datasheet for **RN214883**

### Zfyve27 (NM\_199104) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zfyve27 (NM_199104) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Zfyve27
Synonyms:	MGC72597
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN214883 representing NM_199104 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCAGTCTTCGGATCGGGACCTGAGTGGACCAGAGGCGAGCCCCAGCGTGATGCCTGAGGTTCTCTCTG  
AGTGTTACCTGCCCTACCAAGTCAACAGCGTTTGATCTTTCAACCTGGTTCTGTCTACAAGAGGCT  
GGAGATCTACCTGGAACCCCTGAAGGATGCAGGTGACGGTGTTCGATACTTGCTAAGGTGCCAGATGCCT  
TTGTGTTCTTGCTGACTTGCCCTGGGCCTCAACATCTTGTTCCTCACTCTGAATGAGGGTGCATGGTACT  
CCGTGGGTGCCTTGATAATTTCCGGTGCCTGCCCTACTGGGCTACCTTCAGGAGGTGTGCCGGCACAGCT  
ACCAGAGTCTGAGCTGATGAGGCGGAAGTACCACAGCGTGCAGGAGGAAAGACCTGCAGAGAGTTCGCCTT  
TCCCGCCCTGAGGCTGTAGCTGAGGTGAAAAGCTTCTTGATCCGACTGGAAGCCTTCTTGCCCGCCTGT  
GCTATACCTGCGAGTCAGCTTACCGTGTACTTCACTGGGAGAACCCTGTGGTGTCTCACAGTCTATGG  
TGCTCTTCTGGGCATGGTTTGCATGCTCTACCTGCTGCCGCTCTGCTGGTCTCGCCCTTTAAACAGC  
ACACTCTTTCTGGGAAATGGGAATTCTCCGAGTGGTGTCTGAGTACAGGGCTTGCTGCAGCGGCGGA  
TGAGCCCCAAGCAGGAAGAGTGGCTCTGTGAGGGCTCGGCATGCAGGATGCCGGGGGAGGGCTGTTGT  
ACTGGACAGCACCCCTGCCCTACACCCACAGAGGACCTCACGCCAGGCAGTGTGGAGGAAGCTGAGGAG  
GCTGAGCCAGATGAGGAGTTCAAAGATGCAATAGAGGAGGACGATGAGGGAACCCATGCCAGCAGAGG  
ATGAGCTGACCATGCAGGACAATGGCTTCTCAGCAAGAATGAGGTAAGTGCAGCAAGGTGTGCAAGCT  
TACAGAGCGGCTCCGCAAGCGCTACCCGACCAACAACCTTCGGAACTGTGCAGGCTGTGCTGCCACCTTC  
TCCGTGCTGAAGAAGAGGCGAAGCTGCAGCAACTGTGGGAACAGCTTCTGCTCTCGGTGCTGCTCCTTCA  
AGGTGCCCAAGTCTCCATGGGGCCACAGCTCCTGAAGCCAGAGAGACTGTGTTTGTGTGCTCCTC  
CTGTAATCAGACCTTGAGCAAA**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_199104
<b>Insert Size:</b>	1215 bp
<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>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>	<a href="#">NM_199104.2</a> , <a href="#">NP_954535.2</a>
<b>RefSeq Size:</b>	5418 bp
<b>RefSeq ORF:</b>	1215 bp
<b>Locus ID:</b>	309376
<b>UniProt ID:</b>	<a href="#">Q6P7B7</a>
<b>Cytogenetics:</b>	1q54
<b>Gene Summary:</b>	Key regulator of RAB11-dependent vesicular trafficking during neurite extension through polarized membrane transport (PubMed:17082457). Promotes axonal elongation and contributes to the establishment of neuronal cell polarity. Involved in nerve growth factor-induced neurite formation in VAPA-dependent manner. Contributes to both the formation and stabilization of the tubular ER network. Involved in ER morphogenesis by regulating the sheet-to-tubule balance and possibly the density of tubule interconnections. Acts as an adapter protein that facilitates the interaction of KIF5A with VAPA, VAPB, SURF4, RAB11A, RAB11B and RTN3 and the ZFYVE27-KIF5A complex contributes to the transport of these proteins in neurons. Can induce formation of neurite-like membrane protrusions in non-neuronal cells in a KIF5A/B-dependent manner (By similarity).[UniProtKB/Swiss-Prot Function]