

Product datasheet for MR205235

Zfyve27 (NM_177319) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zfyve27 (NM_177319) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zfyve27
Synonyms:	2210011N02Rik; 9530077C24Rik; AI426636; AI593546; AI835681
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205235 representing NM_177319 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGACTTCGGATCGGGACCTGAGTGGGCCGGAGGCGAGCCCCAGCGGGATGCCTGAGGTTCTCTCTG
AGTGTCCACCTGCCCTACCAAGTCAGCAGCGTTTGTATCTTCAACCTGGTCTGTCTACAAGAGGCT
GGAGATCTACCTGGAACCCCTGAAGGATGCAGGGGACGGTGTTCGATACTTGCTAAGGTGGCAGATGCCT
TTGTGTTCTTGTGACTTGCCTGGGCCCAACATCTTGTTCCTCACTTTGAACGAGGGTGCCTGGTACT
CCATGGGTGCCTTGATGATCTCGGTGCCTGCCCTACTGGGCTACCTTCAGGAGGTGTGCCGGGACAGCT
GCCAGAGTCGGAGCTGATGCGGAGGAAGTACCACAGCATAAGGCAGGAAGACCTGCAGAGAGTTCGCCTT
TCCCGAGTGCACCTTTCCCGCCCTGAGGCTGTTGCTGAGGTGAAGAGCTTCTTGATCCAACCTGGAAGCCT
TCTTGGCCCGCTGTGCTATACCTGCGAGTCAGCCTACCGTGTACTTCACTGGGAGAACCCCGTGGTGTG
CTCACAGTTCTATGGCGCTCTTCTGGGCATGGTGTGCATGCTCTACCTGTACCGCTGTCTGGTCCCTC
GCCCTGTTAAATAGCACACTCTTCTGGGAAATGGGGACTTCTCCGAGTGGTGTGTGAGTACAGGGCCT
GCCTGCAGCGGAGGATGAACCCCGGCAGGAAGAGTGTGCTGTGAGAGCTCAGCACTGCAGGGGCGCG
AGGGAGGGGCTGCTGGACAGCTCGCTGCCCCACACCCACCGAGGACCTCACGCCAGGCAGTGTGGAG
GAAGCTGAGGAGGCTGAGCCAGATGAGGAGTTCAAAGATGCAATTGAGGAGACCCACCTGGTGGTGTGCTGG
AGGATGAAGAGGGCACCCCGTCCCGCAGCAGAGGATGAGCTGACCCTGCAGGACAATGGATTCTCAGCAA
GAATGAGGTGCTGCGCAGCAAGGTGTCCCGGCTTACAGAGCGGCTTCGCAAGCGTTACCCAAACCAATAAC
TTCGGGAATTGTGAGGCTGTGCCGCTACGTTCTCCGTGCTGAAGAAGAGGCGGAGCTGCAGCAACTGTG
GGAACAGCTTCTGCTCGCGGTGTGCTCCTTCAAAGGTGCCAGGTCTCTATGGGAGCCACAGCTCTGA
AGCCAGAGAGAGACTGTGTGTGTGCGCCTCTGCAATCAGACCTGAGCAA

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205235 representing NM_177319
 Red=Cloning site Green=Tags(s)

MQTSDDLSGPEASPSGMPEVLSECPPAPTksAAFDLfnlVLSYKRLEIYLEPLKDAGDGVRYLLRWQMP
 LCsLLTCLGLNlFLTLNEGAWYSMGALMISVPALLGylQEVCRGQLPESELmRRKYHSIRQEDLQRVRL
 SRVHLsRPEAVAeVKSFLlIQLEAFLARLCYTCESAYRVLHWENPVVSSQFYGALLGMVCMLYLLPLCWVL
 ALLNSTLFLGNGDFFRVVCeYRACLQRRMNPQRQEECAcESSALQGAGGRLLDSSPAPTPTEDLTPGSVE
 EAEEAEpDEEFKDAIEETHLVLEDEEGTPCpAEDELTLQDNGFLSKNEVLRskVSRlTERLRkRYPTNN
 FGNcAGCAATFSVLKkRRSNCNSFCsRCCSfKVPRSSMGATApEAQRETVCVCAScNQTLSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9018_d01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177319

ORF Size: 1245 bp

OTI Disclaimer: 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_177319.3](#), [NP_796293.2](#)

RefSeq Size: 5636 bp

RefSeq ORF: 1248 bp

Locus ID: 319740

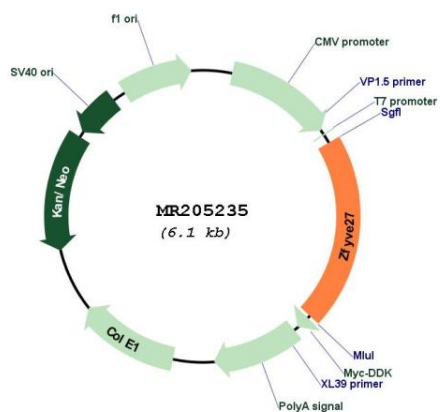
UniProt ID: [Q3TXX3](#)

Cytogenetics: 19 C3

MW: 46.7 kDa

Gene Summary: Key regulator of RAB11-dependent vesicular trafficking during neurite extension through polarized membrane transport (By similarity). Promotes axonal elongation and contributes to the establishment of neuronal cell polarity (PubMed:24251978). 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 (By similarity). 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 (PubMed:21976701). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205235