

Product datasheet for **RR201487**

Zfyve21 (NM_001108725) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Zfyve21 (NM_001108725) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Zfyve21
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR201487 representing NM_001108725
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGTCCTCGGGGTGGCCGCGCTTGCAGCCAAAGAAGCTTGTGCGCTCGCCAGTGGCCTGCCATGG
TGCCGGAGCACCGCCCTTCGGAAGCCCTTCGGCTTGGAGGAACCGCAGTGGGTTCGGACAAGGAGTG
TCCAAGATGTATGCAGTGTGATGCCAAGTTGACTTTATCACCAGAAAGCATCACTGCCCGCTGTGGG
AAATGCTTCTGCGACAGGTGTTGCAGCCAGAAGTGCCACTTCGGCGCATGTGCTTCGTGGACCCAGTGC
GTCAGTGCCTGACTGTGCCCTGGTGTCCATCGAGAGGCTGAGTTCTATGACAAGCAGCTTAAGGTGCT
TGTAAGCGGAGCTACCTCCTTGTACTTTGGGACTCAGAGAAGCCTGAGACCATGGTTTGTGCTCTT
TCCAACAACCAGAGATGCTTGATTCTGGATGGAGACAGCCATCATGAAATTGAGATTGCACATGTGTGA
CTGTCCAGATTCTCACAGAAGGCTTCACTCCTGGAGCAGGCAGCACTCGAGCCACAGGCATGTTCTGCA
GTACACAGTGCCAGGGGCAGAGGCTGCAGCACAGCTGAGGCTGATGGCTGGAGAAGACGCAAGCGGCAGC
AAGAGGCAGGCGGCAGCATGGCTGGCAGCCATGCACAAGGTTGGCTGCAGCGTCTAAGCCTTCCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR201487 representing NM_001108725
Red=Cloning site Green=Tags(s)

MSSGVAARCDAKKLVRSPSLRMVPEHRAFVSPFGLLEEPQWVPDKCEPRCMQCDKFDITRKHHCRRCG
 KFCDCRCCSQKVPPLRRMCFVDPVRQCADCALVSHREAEFYDKQLKVLVSGATFLVTFGDSEKPEMVCRL
 SNNQRCLILDGDSHHEIEIAHVCTVQILTEGFTPGAGSTRATGMFLQYTPVGAEEAAQLRLMAGEDASGS
 KRQAAAWLAAMHKVGLQRPKPSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



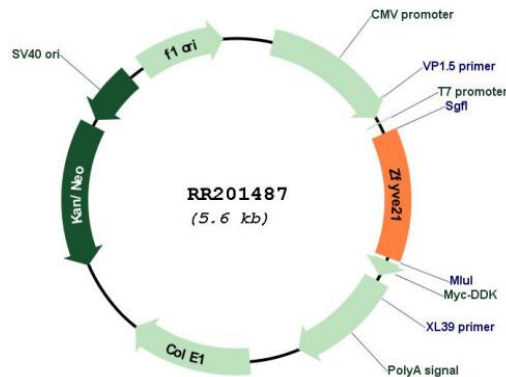
[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001108725

ORF Size: 699 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:	<ol style="list-style-type: none">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:	<u>NM_001108725.1, NP_001102195.1</u>
RefSeq Size:	958 bp
RefSeq ORF:	702 bp
Locus ID:	362789
Cytogenetics:	6q32
MW:	25.8 kDa
Gene Summary:	Plays a role in cell adhesion, and thereby in cell motility which requires repeated formation and disassembly of focal adhesions. Regulates microtubule-induced PTK2/FAK1 dephosphorylation, an event important for focal adhesion disassembly, as well as integrin beta-1/ITGB1 cell surface expression (By similarity).[UniProtKB/Swiss-Prot Function]