

## Product datasheet for **RC231102**

### ZFYVE21 (NM\_001198953) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZFYVE21 (NM_001198953) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZFYVE21
Synonyms:	HCVP7TP1; ZF21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC231102 representing NM_001198953 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCTCCGAGGTGTCCGCGCCGCGGACGCCAAGAAGCTGGTGCCTCCCCGAGCGGCCTGCGCATGG  
TGCCCGAACACCGCGCCTTCGGAAGCCCGTTCGGCCTGGAGGAGCCGAGTGGTCCCGACAAGGAGTG  
TCGGAGATGTATGCAGTGTGACGCCAAGTTTGACTTTCTACCAGAAAGCACCAGTGCCTCGCGG  
AAGTGCTTCTGCGACAGGTGCTGCAGCCAGAAGGTGCCGCTGCGGCGCATGTGCTTTGTGGACCCCGTGC  
GGCAGTGC GCGGAGTGC GCCCTCGTGTCCCTCAAGGAGGCGGAGTTCTACGACAAGCAGCTCAAAGTGCT  
CCTGAGCGGAGCCACCTTCCTCGTCACGTTTGGAACTCAGAGAACTGAACTATGACTTGTCGTCTT  
TCCAATAACCAGAGATACTTGTTCGGATGGAGACAGCCACTATGAAATCGAAATTGTACACATTTCCA  
CCGTGCAGATCCTCACAGAAGGCTTCCCTCCTGGAGAAAAAGACATTCACGCTTACACCAGCCTCCGGGG  
GAGCCAGCCTGCCTCTGAAGGAGGCAACGCACGGGCCACAGGCATGTTCTCAGTATACAGTGCCGGGG  
ACGGAGGGTGTGACCCAGCTGAAGCTGACAGTGGTGGAGGACGTGACTGTGGCAGGAGGCGGGTGG  
CGTGGCTAGTGGCCATGCACAAGGCTGCCAAGCTCCTCTATGAATCTCGGGACCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RC231102 representing NM\_001198953  
Red=Cloning site Green=Tags(s)

MSSEVSARRDAKLVRSPLGRMVP EHFAGSPFGL EEPQWVPDKECRRCMQCDAKFDL TRKHHCRRCG  
 KCFCDRCCSQKVLRRMCFVDPVRQCAECALVSLKEAFYDKQLKVL LSGATFLVTFGNSEKPEMTTCRL  
 SNNQRYLFLDGD SHYEIEIVHISTVQIL TEGFPPGEKDIHAYTSLRGSQPASEGGNARATGMFLQYTPVG  
 TEGVTQLKLT VVEDVTVGRRQAVAWLVAMHKA AKLLYESRDQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001198953

**ORF Size:** 756 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\\_001198953.1](#), [NP\\_001185882.1](#)

**RefSeq ORF:** 759 bp

**Locus ID:** 79038

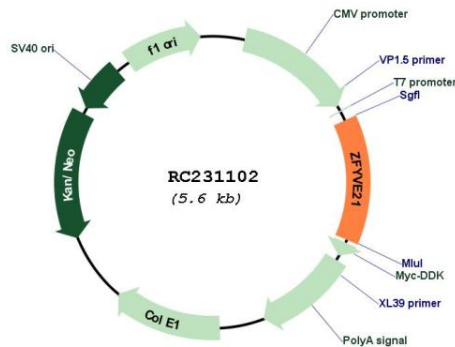
**UniProt ID:** [Q9BQ24](#)

**Cytogenetics:** 14q32.33

**MW:** 28.9 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.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RC231102