

## Product datasheet for **MR202323**

### Zfyve21 (NM\_026752) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Zfyve21 (NM\_026752) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Zfyve21  
**Synonyms:** 1110013H04Rik; AW558780; C85416  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR202323 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGCCGGAGCACCGCCTTCGGAAGCCCTTCGGCTTGGAGGAGCCGAGTGGTTCCGGACAAGG  
AGTGCCCAAGATGTATGCAATGTGATGCCAAGTTTGACTTCATCACCAGAAAGCATCACTGCCGCCGCTG  
TGGGAAGTGCTTCTGCGACAGGTGCTGCAGCCAGAAGGTGCCACTTCGGCGCATGTGCTTCGTGGACCCA  
GTGCGCCAGTGTGCTGACTGTGCCCTGGTGTCCACCCAGAGGGCGGAGTTTTATGACAAGCAGCTGAAGG  
TGCTCCTAAGTGGAGCTACCTTCCTTGTACTTTTGGGGACTCAGAGAAGCCCGAGACCATGGTTTGTCTG  
TCTTTCCAACAACCAGAGGTGCTTGGTTCTGGATGGGGACAGTCATCGTAAATCGAGATTGCACATGTC  
TGTAAGTTCAGATTCTCACCGAAGGCTTCACTCCTGGAGCAGGCAGCACCAGCCACTGGCATGTCTCC  
TGCAAGAGGCAGGCAGCAGCGTGGCTGGCAGCCATGCACAAGGCTACCAAGCTCCTCTATGAATCACGA  
GACCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR202323 protein sequence  
 Red=Cloning site Green=Tags(s)

MVPEHRAFGSPFGLLEEQWVPDKCEPRCMQCDKAFDFITRKHHCRRCGKCFCDRCCSQKVPLRRMCFVDP  
 VRQCADCALVSHREAFYDKQLKVLVSGATFVLVTFGDSEKPEMVCRLSNNQRCLVLDGDSHREIEIAHV  
 CTVQILTEGFTPGAGSTRATGMLLQYTVPGAEEAAQLRLMAGEDASGSKRQAAAWLAAMHKATKLLYESR  
 DQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_026752

**ORF Size:** 639 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\\_026752.2](#), [NP\\_081028.2](#)

**RefSeq Size:** 1310 bp

**RefSeq ORF:** 705 bp

**Locus ID:** 68520

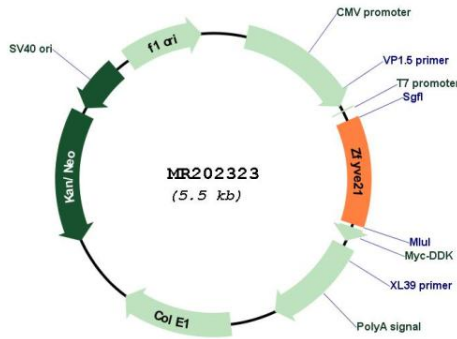
**UniProt ID:** [Q8VCM3](#)

**Cytogenetics:** 12 F1

**MW:** 23.7 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]

**Product images:**



Circular map for MR202323