

Product datasheet for RC203337

ZFYVE21 (NM 024071) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: ZFYVE21 (NM_024071) 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>RC203337 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$

GCCGCGATCGCC

ATGTCCTCCGAGGTGTCCGCGCGCGCGCGACGCCAAGAAGCTGGTGCGCTCCCCGAGCGGCCTGCGCATGG
TGCCCGAACACCGCGCCTTCGGAAGCCCGTTCGGCCTGAGGAGCCGCAGTGGGTCCCGGACAAGGAGTG
TCGGAGATGTATGCAGTGTGACGCCAAGTTTGACTTTCTCACCAGAAAGCACCACTGTCGCCGCTGCGGG
AAGTGCTTCTGCGACAGGTGCTGCAGCCAGAAGGTGCCGCTGCGGCGCATGTGCTTTGTGGACCCCGTGC
GGCAGTGCGCGGAGTGCGCCCTCGTGTCCCTCAAGGAGGCGGAGTTCTACGACAAGCAGCTCAAAGTGCT
CCTGAGCGGAGCCACCTTCCTCGTCACGTTTGGAAACTCAGAGAAACCTGAAACTATGACTTGTCGTCTT
TCCAATAACCAGAGATACTTGTTTCTGGATGGAGACACGCACTATGAAATCGAAATTGTACACATTTCCA
CCGTGCAGATCCTCACAGAAGGCTTCCCTCCTGGAGGAGGCAACGCACGGGCCACAGGCATGTTCCTGCA
GTATACAGTGCCGGGGACGGAGGGTGTGACCCAGCTGAAGCTGACAGTGGTGGAGGACGTGACTGTGGGC
AGGAGGCAGGCGGTGGCCTAGTGGCCATGCACAAGGCTGCCAAGCTCCTCTATGAATCTCGGGACC
AG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

ZFYVE21 (NM_024071) Human Tagged ORF Clone - RC203337

Protein Sequence: >RC203337 protein sequence

Red=Cloning site Green=Tags(s)

MSSEVSARRDAKKLVRSPSGLRMVPEHRAFGSPFGLEEPQWVPDKECRRCMQCDAKFDFLTRKHHCRRCG KCFCDRCCSQKVPLRRMCFVDPVRQCAECALVSLKEAEFYDKQLKVLLSGATFLVTFGNSEKPETMTCRL SNNQRYLFLDGDSHYEIEIVHISTVQILTEGFPPGGGNARATGMFLQYTVPGTEGVTQLKLTVVEDVTVG RRQAVAWLVAMHKAAKLLYESRDQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6417 e12.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



CTATAGGGCGGCCG	EcoR I	Bamh GACTGGAT	II Kpn I COGGTACO	RBS CGAGGAGA	TCTGC		ensus Sgf I	cc R	TG -		-
ORF	NNN	Mlu I ACG CGT T R	ACG CGC		Xhol C GAG	CAG I		:.Tag : ATC I	TCA S	GAA E	gag E
GAT CTG GCA GC	Eco CA AAT GAT N D			Flag.Tag AAG GA: K D	GAC D		AT AAG D K	GTT	me I TAA Stop	ACGG	se I COGGOC

^{*} The last codon before the Stop codon of the ORF

ACCN: NM_024071

ORF Size: 702 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: <u>NM 024071.4</u>

RefSeq Size: 1470 bp
RefSeq ORF: 705 bp
Locus ID: 79038
UniProt ID: Q9BQ24
Cytogenetics: 14q32.33
Domains: FYVE

MW: 26.5 kDa

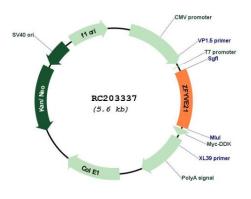
Gene Summary: Plays a role in cell adhesion, and thereby in cell motility which requires repeated formation

and disassembly of focal adhesions. Regulates microtubule-induced PTK2/FAK1

dephosphorylation, an event important for focal adhesion disassembly, as well as integrin

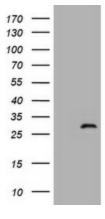
beta-1/ITGB1 cell surface expression.[UniProtKB/Swiss-Prot Function]

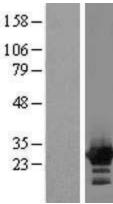
Product images:

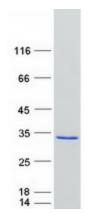


Circular map for RC203337









HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ZFYVE21 (Cat# RC203337, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ZFYVE21(Cat# [TA505622]). Positive lysates [LY411387] (100ug) and [LC411387] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY411387]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203337 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified ZFYVE21 protein (Cat# [TP303337]). The protein was produced from HEK293T cells transfected with ZFYVE21 cDNA clone (Cat# RC203337) using MegaTran 2.0 (Cat# [TT210002]).