

Product datasheet for **RG231102**

ZFYVE21 (NM_001198953) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZFYVE21 (NM_001198953) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZFYVE21
Synonyms:	HCVP7TP1; ZF21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG231102 representing NM_001198953 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCTCCGAGGTGTCCGCGCGCCGCGACGCCAAGAAGCTGGTGCCTCCCCGAGCGGCCTGCGCATGG
TGCCCGAACACCGCGCCTTCGGAAGCCCGTTCCGCCTGGAGGAGCCGAGTGGTCCCGACAAGGAGTG
TCGGAGATGTATGCAGTGTGACGCCAAGTTTGACTTTCTACCAGAAAGCACCAGTGCCTCGCGG
AAGTGCTTCTGCGACAGGTGCTGCAGCCAGAAGGTGCCGCTGCGGCGCATGTGCTTTGTGGACCCCGTGC
GGCAGTGC GCGGAGTGC GCCCTCGTGTCCCTCAAGGAGGCGGAGTTCTACGACAAGCAGCTCAAAGTGCT
CCTGAGCGGAGCCACCTTCCTCGTCACGTTTGGAACTCAGAGAACTGAACTATGACTTGTCGTCTT
TCCAATAACCAGAGATACTTGTTCGGATGGAGACAGCCACTATGAAATCGAAATTGTACACATTTCCA
CCGTGCAGATCCTCACAGAAGGCTTCCCTCCTGGAGAAAAAGACATTCACGCTTACACCAGCCTCCGGGG
GAGCCAGCCTGCCTCTGAAGGAGGCAACGCACGGGCCACAGGCATGTTCTGCAGTATACAGTGCCGGGG
ACGGAGGGTGTGACCCAGCTGAAGCTGACAGTGGTGGAGGACGTGACTGTGGCAGGAGGCGGGTGG
CGTGGCTAGTGGCCATGCACAAGGCTGCCAAGCTCCTCTATGAATCTCGGGACCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG231102 representing NM_001198953
 Red=Cloning site Green=Tags(s)

MSSEVSARRDAKKLVRSPLGLRMVPEHRAFGSPFGLLEPQWVPDKECRRCMQCDAKDFDLTRKHHCRRCG
 KCFCDRCCSQKVPLRRMCFVDPVRQCAECALVSLKEAFYDKQLKVLVSGATFLVTFGNSEKPEMTMTCRL
 SNNQRYLFLDGDSDHYEIEIVHISTVQIILTEGFPPGEKDIHAYTSLRGSQPASEGGNARATGMFLQYTVPG
 TEGVTQLKLTVVEDVTVGRRQAVAWLVAMHKAAKLLYESRDQ

TRTRPLE - GFP Tag - V

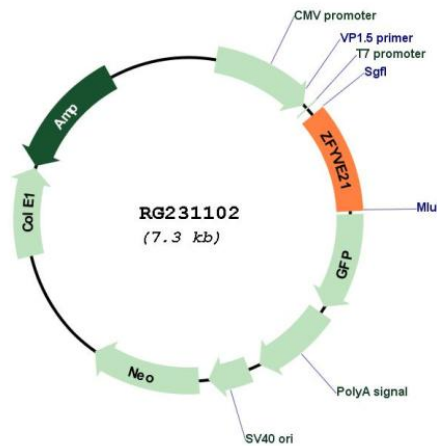
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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:	<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:	NM_001198953.1 , NP_001185882.1
RefSeq Size:	1524 bp
RefSeq ORF:	759 bp
Locus ID:	79038
UniProt ID:	Q9BQ24
Cytogenetics:	14q32.33
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]