

Product datasheet for **MG210596**

Zfyve1 (NM_183154) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zfyve1 (NM_183154) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zfyve1
Synonyms:	DFCP1; G630053K23; mKIAA1589; TAFF1; ZNFN2A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>MG210596 representing NM_183154
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGTGCCAGACTTCCCTAGCAGAGAAGGGCCTAAATCCGGGGCTCATGTGCCAGGAGAGTTATGCAT
 GCAGTGGGACTGATGAAGCTATCTTTGAATGTGATGAGTGTGTAGTTTGCAGTGTCTCCGCTGTGAGGA
 GGAAGTCCACAGACAGGAGCGCCTTCGAAACCATGAGCGGATAAGACTCAAAGCTGGCCATGTCCCTTAT
 TGTGACCCCTGCAAGGGCCCAATGGGCATTGCCAGGTGTTAGGCAAAGGGCAGCCGTGAGGTGCCAGA
 CTTGCAAATCAATCTCTGCCTGGAATGCCAGAAGAGGACTCATTAGGGGGTAACAAGAGAAGACACCC
 CATTACCGTGTACCTTGTAGTAAGGTCCAGGAGTCCCTGGAGGGGGAAGAGATGGATGAGGAGACCAAG
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 CCCGAAGCCTTTAGCTCCATTCACTACAAGGGAACGAGGACATACAATCCGCCACAGACTTCTCTGGGC
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 GCCGCAAGGAGTTCAGCGTCAAGCTCTCAAACACCACTGCCGAGCTTGGGACAGGGCTTCTGCGATGA
 GTGCTCCCATGACTGCAGGGCTGTCCCTCTCGTGGCTGGGACCATCCAGTCCGAGTCTGCTTCAACTGC
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

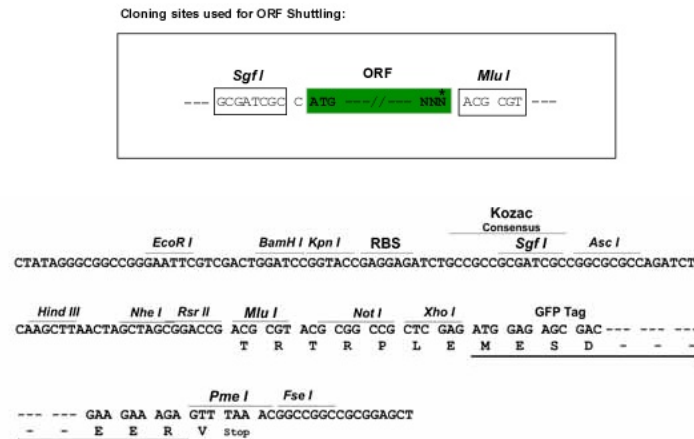
Protein Sequence: >MG210596 representing NM_183154
 Red=Cloning site Green=Tags(s)

MSAQTSLAEKGLNPLMCQESYACSGTDEAIFECDECCSLQCLRCEEELHRQERLRNHERIRLKAGHVPY
 CDPCKGPNHSGPVRQRAAVRCQTCKINLCLEQKQKRTSHSGGNKRRHPITVYLVSKVQESLEGEEMDEETK
 RKKMTERVVSFLLVDENEEIQVTNEEDFIRKLDCKPDQHLKVVSVFGNTGDGKSHTLNHTFFYSREVFKT
 SPAQESCTVGWAAAYDPVHKVAVIDTEGLLGATVNL SQRTRLLKVLAI SLDLVIYRTHADRLHNDLFKFL
 GDASEAYLKHFTELKATTARCLDVPLSTLGPVVIIFHETVHTQLLGSDHPSEAEKLIQDRFRKLGRF
 PEAFFSIHYKGTRTYNPPTDFSGLRRALEQLLENNTTSPRHPGVIFKALKALSDRFSGEIPDDQMAHSS
 FFPDEYFTCSSLCLSCGAGCKNSMNHGKEGVPHEAKSRCRYSHQYDNRVYTCKACYERGKEVSVPKTS
 STDSPWMLAKYAWSGYVIECPNCGVVYRSRQYWFNGQDPVDTVVRTEIVHVWPGTDAFLKDNNAQRL
 LDGMNFMAQSVSEL SLGPTKAVTSWLTDQIAPAYWRPNSQILSCNQCATSFKDNDTKHHCRACGEGFCD
 CSSKTRPVPERGWGPAPVRVCDSCYDARNVQLDVTEAQADDEGGTLIARKVGEAVQNTLGAVVTAIDIP
 GLVKDAARPAYWVPDHEILHCHNCRKEFSVKLSKHHCRACGQGFCDCECHDCRAVPSRGWDHPVRVCFNC
 NKKPGDL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_183154

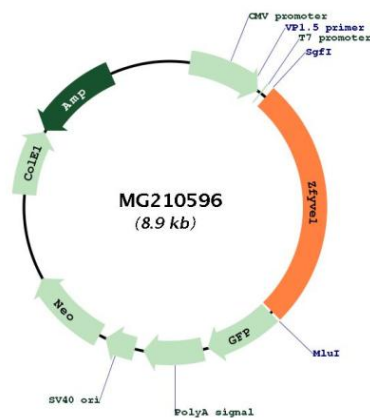
ORF Size: 2331 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_183154.1</u>
RefSeq Size:	3870 bp
RefSeq ORF:	2334 bp
Locus ID:	217695
UniProt ID:	<u>Q810J8</u>
Cytogenetics:	12 D1
Gene Summary:	Plays a role in the formation of lipid droplets (LDs) which are storage organelles at the center of lipid and energy homeostasis (PubMed:30970241). Regulates the morphology, size and distribution of LDs (PubMed:31293035, PubMed:30970241). Mediates the formation of endoplasmic reticulum-lipid droplets (ER-LD) contact sites by forming a complex with RAB18 and ZW10 (By similarity). Binds to phosphatidylinositol 3-phosphate (PtdIns3P) through FYVE-type zinc finger (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG210596