

Product datasheet for **MR210596**

Zfyve1 (NM_183154) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zfyve1 (NM_183154) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zfyve1
Synonyms:	DFCP1; G630053K23; mKIAA1589; TAFF1; ZNFN2A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR210596 ORF sequence

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

 TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

 ATGAGTGCCAGACTTCCCTAGCAGAGAAGGGCCTAAATCCGGGGCTCATGTGCCAGGAGAGTTATGCAT
GCAGTGGGACTGATGAAGCTATCTTTGAATGTGATGAGTGTGTAGTTTGCAGTGTCTCCGCTGTGAGGA
GGAAGTCCACAGACAGGAGCGCCTTCGAAACCATGAGCGGATAAGACTCAAAGCTGGCCATGTCCCTTAT
TGTGACCCCTGCAAGGGCCCAATGGGCATTGCCAGGTGTTAGGCAAAGGGCAGCCGTGAGGTGCCAGA
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AAATACTGGTGATGGAAGTCTCACACTCAACCACACTTTCTCTATAGCCGAGAAGTCTTCAAACCC
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GGGTTCTGATCACCCCTCCGAGGCGCCGAGAAGCTCATCCAGGACCGCTTCAGGAAGCTGGGCCGCTTC
CCCGAAGCCTTTAGCTCCATTCACTACAAGGGAACGAGGACATACAATCCGCCACAGACTTCTCTGGGC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210596 protein sequence

Red=Cloning site Green=Tags(s)

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MSAQTSLAEKGLNPGLMCQESYACSGTDEAIFECDECCSLQCLRCEEELHRQERLRNHERIRLKAGHVPY
CDPCKGPNHGSPGVRQRAAVRCQTCKINLCLECQKRTHSGGNKRRHPITVYLVSKVQESLEGEEMDEETK
RKKMTERVVSFLLVDENEEIQVTNEEDFIRKLDCKPDQHLKVVSVFGNTGDGKSHTLNHTFFYSREVFKT
SPAQESCTVGWAAAYDPVHKVAVIDTEGLLGATVNL SQRTRLLKVL AISDLVIYRTHADRLHNDLFKFL
GDASEAYLKHFTELKATTARCLDVPLSTLGPAVIIFHETVHTQLLGSDHPSEAPEKLIQDRFRKLGRF
PEAFSSIHYKGTRTYNPPTDFSGLRRALEQLLENNTTRSPRHPGVIFKALKALSDRFSGEIPDDQMAHSS
FFPDEYFTCSSLCLSCGAGCKNSMNHGKEGVPHEAKSRCRYSHQYDNRVYTCKACYERGKEVSVVPKTS
STDSPWMGLAKYAWSGYVIECPNCGVVYRSRQYWFGNQDPVDTVVRTEIVHVWPGTDAFLKDNNAQRL
LDGMNFMAQSVSEL SLGPTKAVTSWLT DQIAPAYWRPNSQILSCNQCATSFKDNDTKHHCRACGEGFCD
CSSKTRPVPERGWGPAPVRVCDSCYDARNVQLDVTEAQADDEGGTLIARKVGEAVQNTLGAVVTAID IPL
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NKKPGDL
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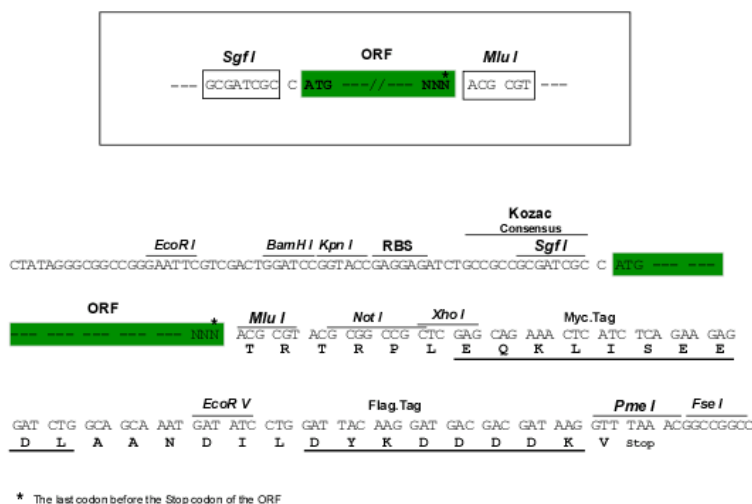
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



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: [NM_183154.1](#)

RefSeq Size: 3869 bp

RefSeq ORF: 2334 bp

Locus ID: 217695

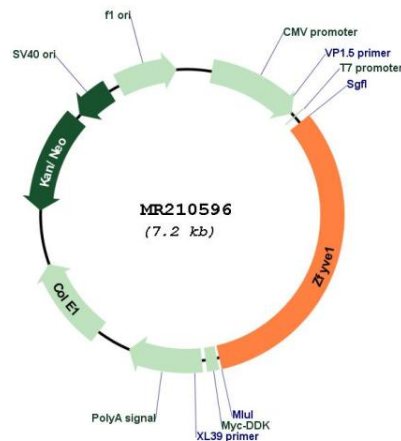
UniProt ID: [Q810J8](#)

Cytogenetics: 12 D1

MW: 87 kDa

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 MR210596