

Product datasheet for **MC204746**

Zfyve1 (NM_183154) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zfyve1 (NM_183154) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Zfyve1
Synonyms:	DFCP1; G630053K23; mKIAA1589; TAFF1; ZNFN2A1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>BC050015
AACGAGTCTAAGTTATGAGTGCCAGACTTCCTAGCAGAGAAGGGCCTAAATCCGGGGCTCATGTGCCA
GGAGAGTTATGCATGCAGTGGGACTGATGAAGCTATCTTTGAATGTGATGAGTGTGTAGTTTGCAGTGT
CTCCGCTGTGAGGAGGAACTCCACAGACAGGAGCGCTTCGAAACCATGAGCGGATAAGACTCAAAGCTG
GCCATGTCCCTTATTGTGACCCCTGCAAGGGCCCAATGGGCATTCGCCAGGTGTTAGGCAAAGGGCAGC
CGTGAGGTGCCAGACTTGCAAAATCAATCTCTGCCTGGAATGCCAGAAGAGGACTCATTACGGGGGTAAC
AAGAGAAGACACCCATTACCGTGTACCTTGTGAGTCCAGGAGTCCCTGGAGGGGGAAGAGATGG
ATGAGGAGACCAAGAGGAAGAAGATGACAGAGAGGGTTGTGAGCTTCTCCTGGTAGACGAAATGAAGA
GATCCAGGTAACAAATGAAGAGGACTTTATCAGGAAATTGGACTGTAAGCCTGACCAGCATCTCAAGGTG
GTTTCCGTTTTTGGAAATACTGGTGATGGAAAGTCTCACACACTCAACCACACTTTCTTCTATAGCCGAG
AAGTCTTCAAACCTCCCTGCTCAGGAGTCTGCACAGTGGGAGTGTGGGCAGCCTATGACCCAGTCCA
TAAGGTAGCAGTGATAGACACAGAAGGACTCTTGGGGGCCACCGTGAATCTGAGCCAGAGGACACGGCTG
CTGCTGAAGGTCTGGCCATCTCAGACTTGGTCATCTATCGAACTCATGCAGACCGGCTGCATAATGACC
TCTTCAAATTCCTTGGGGATGCCTCGGAAGCTTACCTGAAGCACTTCACCAAGGAACTCAAGGCCACCAC
TGCACGATGTGGCTGGATGTCCCTTATCCACCTGGGCCCTGCAGTTATTATTTCCATGAGACTGTG
CACACTCAGCTTCTGGGTCTGATCACCCTCCGAGGCGCCGAGAAGCTCATCCAGGACCGCTCAGGA
AGCTGGGCGCTTCCCCGAAGCCTTTAGCTCCATTCACTACAAGGGAACGAGGACATACAATCCGCCAC
AGACTTCTCTGGGCTTCGGCGTGCTCTGGAACAGCTACTAGAGAACAAACACCACAGGTCTCCCCGGC
CCAGGGGTGATCTTCAAAGCCCTGAAGGCACTAAGTGACCGCTTCAGCGGTGAGATCCCGATGACCAGA
TGGCGCACAGTTCATTTTTCCAGACGAGTACTTACCTGCTCCTCGCTCTGCCTCAGCTGTGGGGCGGG
ATGTAAGAACAGCATGAACACGGCAAGGAAGGGTGCCTCATGAAGCCAAGAGTCGCTGAGTACTCA
CACCAGTATGACAACCGCTCTATACCTGCAAGGCCTGCTATGAGAGAGGCAAGGAAGTCAGCGTGGTGC
CCAAAACATCTGCCTCCACTGACTCTCCTGGATGGGGCTGGCAAAGTATGCCTGGTCTGGGTATGTGAT
CGAGTGTCTTAAGTGTGGGGTGGTCTATCGGAGCCGCCAGTACTGGTTTGGGAACCAAGATCCTGTGGAT
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CCGCCCAGCGTCTCTGGATGGAATGAACCTTTATGGCTCAGTCAGTGTCTGAGCTCAGCCTCGGACCCAC
TAAGGCTGTGACGTCTTGGCTAACGGATCAGATTGCCCTGCCTACTGGAGGCCAACTCCAGATCCTG
AGCTGCAACCAAGTGTGCGACATCCTTCAAGGACAACGACACGAAGCATCACTGCCGGGCTGTGGGGAGG
GCTTCTGTGACAGCTGTTTATCCAAGACCCGGCGGTGCCTGAGCGGGGTGGGGACCTGCGCTGTCCG
CGTGTGTGACAGCTGCTACGATGCCAGGAATGTCCAGTTAGATGTGACTGAGGCGCAGGCAGATGATGAA
GGTGGAACGCTGATTGCCCGGAAGGTGGGCGAGGCGGTGCAGAACACCTTGGGAGCCGTGGTGACAGCTA
TTGACATACCACTAGGCCTGGTAAAAGATGCCGCCAGGCCGCGCTACTGGGTGCCTGACCACGAGATCCT
GCACTGCCACAAGTCCGCAAGGAGTTCAGCGTCAAGCTCTCAAACACCACTGCCGAGCTTGCGGACAG
GGCTTCTGCGATGAGTGTCCCATGACTGCAGGGCTGTCCCTCTCGTGGCTGGGACCATCCAGTCCGAG
TCTGCTTCAACTGCAATAAAAAGCCCGTGACCTTTAACCCCAAGTTCCCTCTCCGACTGCTTCACAAATC
CTTAGGTTCTCAGGGTTAGAAACAGAAGTCTCACTGAGGTAGGCCCTCCTCTGGTCACTGGTGTGGTG
TGTGGTGTGTGTACCCCTCTCACGTCCCTCAGTGGAGGTGAGCCTGGCGGTAGATCCGAAGGCATGAAC
CACGTACGGGCAGGGCATGGAGCAGCTCTCAGTAAAGCAGAATGGACCAGAGTCCATTGCATTTATTCCA
GTTAAAAATAATAAATCTCTCTATATATATATCTCCATTTATCCATCTAGAGGGGATTTGGAGTGATCAA
GACTGCTTCTGCTTTGAAGACTTACCCTGGTGTGTCCCCAGCACAGGGATAAGGTGGCACTGGGAGTCAG
TCTTGCTCCTGAAGCGAGCCAGGTTTTGCTGCTTCAACCAGAGCTTGGCAGTGTCTTTTCTGTCCCTCT
TCCCTCTGCACCCCTGTGCTGGATGGCTGTCTAGGTTTGAACCTCTTGTGTAAGCAGTCATGGTTC
CGACCTGTACTGGGCAGGGGTCTGGCTTGTGTGTAAGCTACTGGCGTATGTAAGGGTCAGAGGGTAGAG
TCTTGAGACATAAAAAGTCAAGATGCAGGTACTTGTGGCCCTGCAGATGGGGAGTCCAGAAGGAATTGG
TCTCCCTGTAGGCCGTGACGTTTCTGTCTCTCTAGGCTTTCTAGAAGCCATACCCTGCTCTCCCTCT
CTGCCCCTGGACTCCAGGCTGCCCTTCTTAGGATTTTTATTGCTCACAGTGTCTTATTCTTTGTTCCCA
TACATAACAACCCCTCTACTTGGGGGGTGGGGGGCGACCACAAGAAACCTTCAGGGAAACAGCACAGA
ATGGTCTGTTAGTTATGTTTTTAAATAAATAATATATATATATATAAAATAAATATTTCAACAGAT
CATGAGGAAAAAAAAAAAAA

Restriction Sites:

RsrII-NotI

ACCN:	NM_183154
Insert Size:	2334 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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>BC050015</u> , <u>AAH50015</u>
RefSeq Size:	3311 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]