

Product datasheet for **MC214269**

Wdfy2 (NM_175546) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Wdfy2 (NM_175546) Mouse Untagged Clone
Tag: Tag Free
Symbol: Wdfy2
Synonyms: 5830485M08; B130024L21Rik; ProF; ZFYVE22
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC214269 representing NM_175546
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGGCGGAGATCCAGCCCCAGCCACTGACCCGAAGCCGATCCTGCTGCAGCGGGTCGAGGGGTCCG
AGGAGGTGGTCAACATGGCGGTGATTGTACCTAAAGAAGAGGGTGTATCAGCGTCTCGGAGGACAGGAC
AGTTCGTGTTGGTTAAAGAGGGACAGTGGACAGTACTGGCCAAGCATCTACCATGCAATGCCTTCTCCA
TGTTTCATGCATGTCTTTAACCCGAAACAAGAAGACTGTCCATAGGTCTAGACAATGGTACAATCTCAG
AGTTTTATTTGTCTGAAGATTATAACAAGATGACACCTGTGAAAACTATCAAGCACATCAGAGCAGAGT
AACGATGGTCTGTTGTTCTGGAAGTGGAGTGGGTGCTGAGCACAGGACAGGACAAGCAGTTCCGCTGG
CACTGCTCTGAGAGTGGACAGCGCTGGGAGGTTACCGCACCAAGTGTGTGGCCTCAGGCCTGCAATTTG
ATGTTGAAACCCGTCATGTGTTATTGGCGATCACTCGGGCCAAGTAACCATCCTCAAAGTGAACAAGA
AAACTGCACACTGCTCACATCCTTCAGAGGGCACACAGGAGGGGTGACAGCACTGTCTGGGACCCGGTG
CAGCGCGTGCTATTCTCAGGCAGTCCGATCACTCTGTATCATGTGGGACATCGGTGGGAGAAAAGGCA
CGGCCATCGAACTCCAAGGACACAATGACAAAGTCCAGGCCCTCCTATGCACAGCACACAGCAGACT
CATCTCATGTGGCGGTGACGGTGGCATTGTCGTCTGGAACATGGATGTGGAAGGCAAGGACCCCTGAG
TGTTGGACAGTACTCTGCCAAAAGTGTGACCAGCCTTTCTTCTGGAAGTCAAGCAAATGTGGGACA
GTAAGAAAATTGGACTAAGACAGCACCCTGCCGGAAGTGTGGGAAGGCCGTGTGCCGCAAGTGTAGCTC
CAAGCGCTCTTCCATCCCACTCATGGGCTTTGAGTTTGAAGTGGGGTCTGCGACAGCTGCCACGAGGCC
ATCACAGATGAAGAACGCGCCCCACAGCCACCTTCCATGACAGTAAGCATAACATTGTGCATGTGCATT
TCGATGCAACCAGGGATGGTTACTGACTTCTGGAAGTACAAGGAATTAAGCTGTGGGACATGACCCC
AGTGGTGT**CATGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_175546
Insert Size:	1203 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:	<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_175546.4 , NP_780755.2
RefSeq Size:	2011 bp
RefSeq ORF:	1203 bp
Locus ID:	268752
UniProt ID:	Q8BUB4
Cytogenetics:	14 D1
Gene Summary:	Acts in an adapter protein-like fashion to mediate the interaction between the kinase PRKCZ and its substrate VAMP2 and increases the PRKCZ-dependent phosphorylation of VAMP2 (By similarity). Positively regulates adipocyte differentiation, by facilitating the phosphorylation and thus inactivation of the anti-adipogenic transcription factor FOXO1 by the kinase AKT1 (PubMed:18388859). Plays a role in endosomal control of AKT2 signaling; required for insulin-stimulated AKT2 phosphorylation and glucose uptake and insulin-stimulated phosphorylation of AKT2 substrates (PubMed:20189988). Participates in transferrin receptor endocytosis (By similarity).[UniProtKB/Swiss-Prot Function]