

Product datasheet for RC219989

WDFY3 (NM_014991) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WDFY3 (NM_014991) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WDFY3
Synonyms:	ALFY; BCHS; MCPH18; ZFYVE25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-Myc-DDK (PS100007)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RC219989 representing NM_014991 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC219989 representing NM_014991
 Red=Cloning site Green=Tags(s)

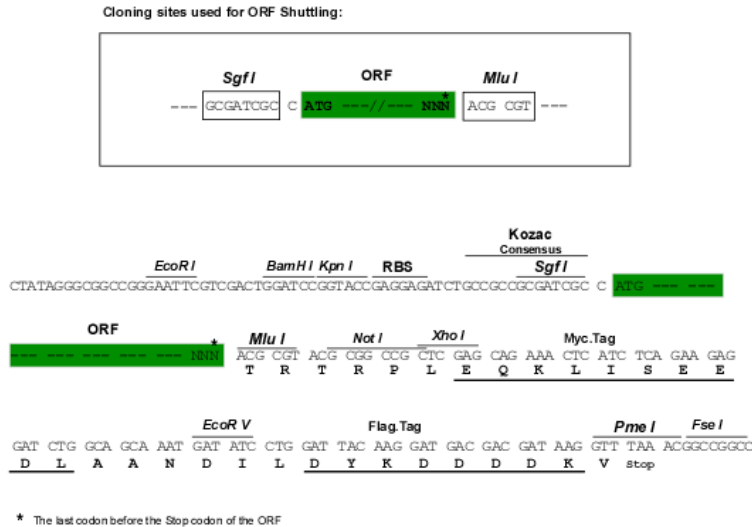
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Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_014991

ORF Size: 10578 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

RefSeq:	NM_014991.6
RefSeq Size:	14315 bp
RefSeq ORF:	10581 bp
Locus ID:	23001
UniProt ID:	Q8IZQ1
Cytogenetics:	4q21.23
Domains:	FYVE, Beach, WD40
MW:	395.1 kDa
Gene Summary:	This gene encodes a phosphatidylinositol 3-phosphate-binding protein that functions as a master conductor for aggregate clearance by autophagy. This protein shuttles from the nuclear membrane to colocalize with aggregated proteins, where it complexes with other autophagic components to achieve macroautophagy-mediated clearance of these aggregated proteins. However, it is not necessary for starvation-induced macroautophagy. [provided by RefSeq, May 2010]