

Product datasheet for **RG205719**

WDR91 (NM_014149) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	WDR91
Synonyms:	HSPC049; SORF-1; SORF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG205719 representing NM_014149
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGCGGCCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGCGAGGCCGTGGAGCGCACTGACGAGCTGGTCCGGGAGTACCTGCTCTCCGCGGGTTCACGCACA
CACTGCGGCAGCTGGACGCCGAGATCAAGGCGGACAAGGAGAAGGGGTTCCGGGTGGATAAGATTGTGGA
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C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

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>RG205719 representing NM_014149
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Red=Cloning site Green=Tags(s)

MAEAVERTDEL VREYLLFRGFTHTLRQLDAEIKADKEKGFRVDKIVDQLQQLMQVYDLAALRDWYSYLER
RLFSRLIEDIYRPTIHKLKTSLFRFYLVYTIQTNRNDKAQEFFAKQATELQNQAEWKDWFVLPFLPSPTDN
PTFATYFSRQWADTFIVSLHNFLSVLFCMPVPVILNFDAECQRTNQVQEENEVLQKLFALQAEIHRLK
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GPPQPQSSAKKESFGGQGTGKDPTSGAKDGKSLLSGLATGESGWSQHRQRLQDHGKERKELFSTTTSQ
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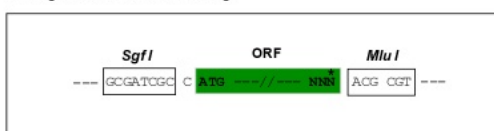
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Kozac
Consensus

EcoR I BamH I Kpn I RBS SgfI Asc I

CTATAGGGCGGCGCGGAATTCTGC TACTGGATCCGGTACCGAGAGATCTGCCGCCGCATCGCCGCGCGCCAGATCT

Hind III Nhe I Rsr II Mlu I Not I Xho I GFP Tag

CAAGCTTAAC TAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- - - -
 T R T R P L E M E S D - - -

Pme I Fse I

--- - - - GAA GAA AGA GTT TAA ACGCGCGCGCGGAGCT

- - - E E R V Stop

ACCN:

NM 014149

ORF Size:

2241 bp

OTI Disclaimer:

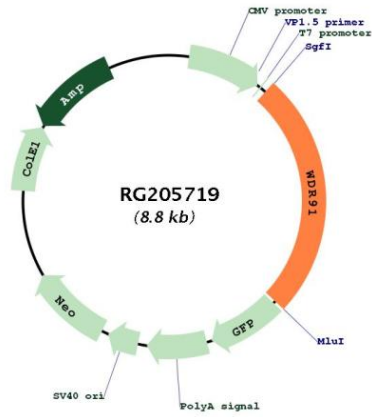
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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_014149.4
RefSeq Size:	3179 bp
RefSeq ORF:	2244 bp
Locus ID:	29062
UniProt ID:	A4DIP6
Cytogenetics:	7q33
Domains:	WD40
Gene Summary:	Functions as a negative regulator of the PI3 kinase/PI3K activity associated with endosomal membranes via BECN1, a core subunit of the PI3K complex. By modifying the phosphatidylinositol 3-phosphate/PtdInsP3 content of endosomal membranes may regulate endosome fusion, recycling, sorting and early to late endosome transport (PubMed:26783301). It is for instance, required for the delivery of cargos like BST2/tetherin from early to late endosome and thereby participates indirectly to their degradation by the lysosome (PubMed:27126989). May play a role in meiosis (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG205719