

Product datasheet for **MG206503**

Wdr4 (BC039272) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wdr4 (BC039272) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Wdr4
Synonyms:	AI415180; AI448349; D530049K22Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206503 representing BC039272 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAGCTCTGCGGGGCTGGCACTGTGCGCCCAGACGCTGGTGGTGCGAGGAGGCAGCCGGTTCCTAG
CCTTCTCCACTACGGGCAGTGATGACTGTGTCTTCACATACGACTGCAGTACTGCAGAGAAGAAGGC
CACGCCAGAAGATAAAGGGGAGGACGGACGCCCGCAGACACAGGGAGTGACTCGATTCTGGCGTCCACC
TTCTCCAAGTCTGGCCGCTATTTTGTCTTAACAGATGACAGTAAGCGTCTGATTCTTTCCGTACAAAAC
CATGGCAATGTCTGAGTGTGAGGATGGTGGTGGCGAGGTGCACCGCCCTGACCTTACAGCCTCAGAGGA
CCGAGTCTTGGTGGCTGACAAGTCTGGAGACGCTACTCCTTTTCGGTGTCTGGAGCCAGATGGATGTGGC
AGGCTGGAGCTTGGGCACCTCTCCATGCTGCTAGACGTGGCTGTGAGTCTGATGACCAGTTTGTGCTTA
CTGCAGACCGGGATGAGAAGATCCGGGTGAGTGGGCTGCTGCCCGCATAGCATCGAGTCTTTCTGCTT
GGGACACACTGAGTTTGTGAGCCGATCCTTGTAGTGCCAGTCACTGAACTGCTGCTTTCTTCTCT
GGGGATGGCACCTGAGACTCTGGGAGTACAGAAGCGGTAGGCAGCTGCAGTGTGTGACCTGGCCGGCC
TACAGGAGCCTGGAGAGCAGCCAGGCCACAAGGGGTTGGCCGCTCCAGGATTGCATTCTGGGGACAGGA
GAGCTATGTGGTCTTCTGTGTGAGTGCCTTCCCGTGGTCTTCCGTCTCCAGCTTGATGCCAGCAGACAG
CAGCTGGTGTTCAGACAGCGGCTGACTTCCCTCACCGAGTGTGGGATGTTGTGTTGAGGAGGCCCGGG
GGCTGTGGGTTCTACAGGACTGCCGTGATGCCCCCTGGTCTCTGGAGGCCTGTGGGTGGTGGTGGCA
GGCTGCTCCAGACGGTGTGTGCTCCCGAGACTCTGCAGCCATCTCCGTGAGAGCTGGGCCATGCTGGAA
GGTTCTGTTGGTACAGATGACAGCTTCCGAGCCTGTACAAGGCCACCTTTGACAACATGACCTCTTACC
TGAAGAAAAGGAAGAGAGACTGCAGCAGCAGCTGAAGAAGAAGCGGCAAGGAGCCCTTCCAGGGTCC
CCCGAACAGACAAAAGGCGTGCCCGGGCCAGTCAAGCCCTTAGTTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206503 representing BC039272
 Red=Cloning site Green=Tags(s)

MASSAGLALCAQTLVVRGGSRFLAFSTTGSDDDCVFTYDCSTAEKKATPEDKGEDGQPADTGSDSLAST
 FSKSGRYFALTDSDKRLILFRTPWQCLSVRMVRRCTALTFTASEDRVLVADKSGDVYSFVLEPDGCG
 RLELGHLSMLLDVAVSPDDQFVLTADRDEKIRVSWAAAPHISIESFCLGHTEFVSRILVVPSPHELLSS
 GDGTLRLWEYRSGRQLQCCDLAGLQEPGEQPGHKGLAASRIAFWGQESYVLLCECVPVVFVQLDASRQ
 QLVFRQRLTFPHRVWDVVFEEARGLWVLQDCRDAPLVLWRPVGGEWQAAPDGAVSPRLCSHLRESWAMLE
 GSVGTDDSFRLYKATFDNMTSYLKKKEERLQQQLKKKRQRPFGSPEQTKKACPGQSALSC

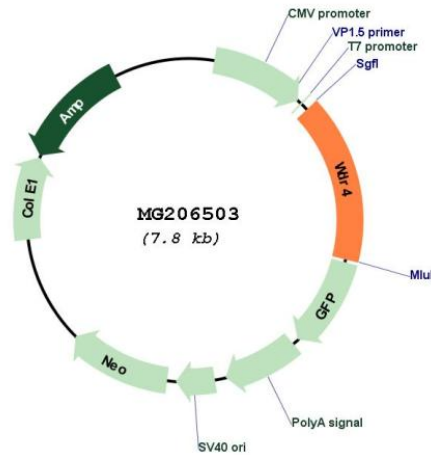
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC039272

ORF Size:	1241 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:	<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:	BC039272 , AAH39272
RefSeq Size:	2054 bp
RefSeq ORF:	1241 bp
Locus ID:	57773
Cytogenetics:	17 B1
Gene Summary:	<p>Non-catalytic component of a methyltransferase complex required for the formation of N(7)-methylguanine in a subset of RNA species, such as tRNAs, mRNAs and microRNAs (miRNAs) (PubMed:29983320). In the methyltransferase complex, it is required to stabilize and induce conformational changes of the catalytic subunit (By similarity). Required for the formation of N(7)-methylguanine at position 46 (m7G46) in tRNA (PubMed:29983320). Also required for the formation of N(7)-methylguanine at internal sites in a subset of mRNAs (By similarity). Also required for methylation of a specific subset of miRNAs, such as let-7 (By similarity). Acts as a regulator of embryonic stem cell self-renewal and differentiation (PubMed:29983320). Independently of METTL1, also plays a role in genome stability: localizes at the DNA replication site and regulates endonucleolytic activities of FEN1 (PubMed:29574139). [UniProtKB/Swiss-Prot Function]</p>