

Product datasheet for **MG205991**

Wdr74 (NM_134139) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wdr74 (NM_134139) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Wdr74
Synonyms:	5730436H21Rik; AA407588
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205991 representing NM_134139 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGACTGCCTCGGCTCGCTGGAACCATGTGTGGTGGCGACTGAGACCGGCATCCTGAAAGGGTGA
ACCTTCAGCGGAAACATGCGGCAAATTTACACCGTCCGGACAGCCGCGGGAGGAGGCAGTGAATGC
TCTGTGCTGGGCGACTGGCGGCGAGACCAATCTTGGTGGGCTGTGCGGACAGAACCGTGAGGTACTTT
AATGCTGAGGAGGTACATTCCTGAGCCAGAGATACTGCCAGGCGGGGAAGGCACGTTCCGAGGTCTCG
CCCAGGCGGATGGCACCCTTATCACATGTGTGGATTCTGGGATCCTCAGAGTCTGGTGTGAAAATGACAA
AGAGGCGTCTCTGACCCACTCTTGAAGTGAAGTGGTCTGGGGTGTGTAGGATGCGCCAAGATCCC
ACACATACACATGTGGTTGCCACATGTGGGAAAGAAAATGCTTTGAAAGTATGGGACCTACAGGGTCTG
AGGAGCCTGTATTAGGGCCAAAATGTGCGGAATGATTGGCTTGATCTCCGAGTTCCTATTTGGGACCA
AGATACACAGTTCCTCCCTGGGTCACAGAACTTGTACATGCACAGGGTACCACCAGGTCCGTGTCTAT
GATCCAGTCTCCCCAGCGCGGCCAGTCTAGAGGCCACCTATGGAGAGTACCCACTGACAGCTATGA
CCCTTACTCCTGAGGGCAATTCGTCATCGTAGGGAACACTCATGGGAGCTGGCAGAAATGATTTTCG
GCAAGGGCGTCTACTGGGCTGTCTGAAGGGCTTGCAGGTAGTGTCTGGGCTGCAGTGCACCCCTCA
AAGCCCTATTAGCCTCATGTGGCTTGGACAGAGTCTTGAGGATACACAGGATCCGCAATCCACGTGGGC
TAGAGCATAAGGTTTATCTCAAGTCTCAACTGAACTGCCTTCTCCTGTCAGGCGGGATAACTGGGAGGA
TGAGCCCCAAGAACCTCAAGAGCCCAACCAAGTACCCTCAGAAGACACAGAGACAGATGAACTTTGGGCC
TCTTTGGAGGCGACTGCCAAGCGGAAGCTCCAGATTTGGACCAGACACAAGGTGCTCTCCAAGAAGGA
AGAAAAAGAAGCGGCCTGGATCCACCAGTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205991 representing NM_134139
 Red=Cloning site Green=Tags(s)

MATASARWNHVWVGTETGILKGVNLQRKHAANFTPSGQPRREEAVNALCWGTGGETQILVGCADRTVRYF
 NAEEGTFLSQRYCPGGEGTFRGLAQADGLITCVDSGILRVWCENDKEASSDPLLELKVGPVCRMRQDP
 THTHVVATCGKENALKVWDLQGSEEPVFRANKVRNDWDLRVPIWDQDTQFLPGSQKLVCTCTGYHQVRVY
 DPVSPQRRPVLEATYGEYPLTAMTLTPEGNSVIVGNTHGQLAEIDFRQGRLLGCLKGLAGSVRGLQCHPS
 KPLLASCGLDRVLRRIHRIRNPRGLEHKVYLKSQLNCLLLSGRDNWEDEPQEPQEPNQVPS EDTTETDELWA
 SLEAAAKRKLPLDQQTQALQRRKKKRPGSTSP

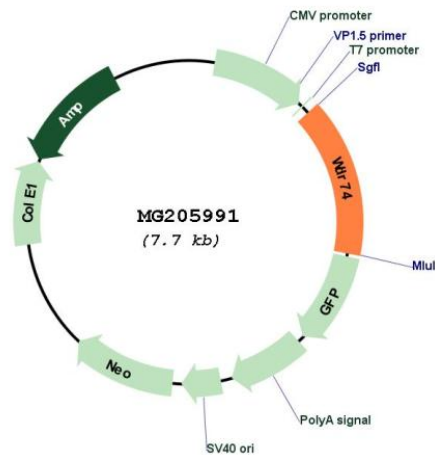
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_134139

ORF Size:	1152 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:	NM_134139.1 , NP_598900.1
RefSeq Size:	1220 bp
RefSeq ORF:	1155 bp
Locus ID:	107071
UniProt ID:	Q8VCG3
Cytogenetics:	19 A
Gene Summary:	Regulatory protein of the MTREX-exosome complex involved in the synthesis of the 60S ribosomal subunit. Participates in an early cleavage of the pre-rRNA processing pathway in cooperation with NVL (By similarity). Required for blastocyst formation, is necessary for RNA transcription, processing and/or stability during preimplantation development (PubMed:21799883).[UniProtKB/Swiss-Prot Function]