

Product datasheet for **RG221134**

WDR74 (NM_018093) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WDR74 (NM_018093) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	WDR74
Synonyms:	Nsa1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221134 representing NM_018093 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCTGCTGCTGCACGCTGGAACCATGTGTGGTCCGCCACCGAGACTGGGATCTTGAAGGGTAA
ATCTTCAGCGAAAACAGGCGGCAACCTCACGGCCGAGGACAGCCGCGCGAGGAGGAGTGGAGCGC
CCTGTGTTGGGGACCGCGGCGAGACCCAGATGCTGGTGGGCTGCGCGGACAGGACGGTGAAGCACTTC
AGCACCGAGGATGGCATATCCAGGGTCAGAGACTGCCCGGGCGGGAGGGCATGTTCCGTGGCCTCG
CCCAGGCCGACGGCACCCCTCATCATGTGTGGATTCTGGGATTCTCAGAGTCTGGCATGACAAGGACAA
GGACACATCCTCTGACCCACTCCTGGAAGTGGAGTGGGCCCTGGGGTGTGTAGGATGCGCCAAGACCCA
GCACACCCCATGTGGTTGCCACAGGTGGGAAAGAGAATGCTTTGAAGATATGGGACCTGCAGGGCTCTG
AGGAACCTGTGTTCCAGGCAAGAAGCTGCGGAATGACTGGTGGACTTGCAGGGTCCCATCTGGGACCA
GGACATACAGTTTCTCCAGGATCACAGAAGCTTGTCACTGCACAGGGTACCACCAGGTCGGTGTATAT
GATCCAGCATCCCCCAGCGCCGCGCAGTCTAGAGACCCTATGGAGAGTACTCACTAACAGCCATGA
CCCTCACTCCGGGAGGCAACTCAGTATTGTGGGAAACTCATGGGCAGCTGGCAGAAATTGACCTTCG
GCAAGGGCGTCTACTGGGCTGTCTGAAGGGCTGGCAGGACAGTGTGCGTGGTTCAGTGCACCCCTTCA
AAGCCTCTACTAGCCTCCTGTGGCTTGGACAGAGTCTTGAGGATACACGGGACCCAGAATCCACGGGTC
TGGAGCATAAGGTTTATCTCAAGTCTCAATTGAACTGCCTCCTTGTGTCAGGCAGGACAACCTGGGAGGA
TGAGCCCCAAGAGCCTCAAGAACCACAAAGGTGCCCTAGAAGACACAGAGACAGATGAACTTTGGGCA
TCCTTGAGGCGAGCTGCCAAGCGGAAGCTCTCGGGTTTGGAGCAGCCCCAAGGAGCTCTCCAACGAGAC
GGAGAAAGAAGAAGCGGCTGGTCCACCAGCCCC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221134 representing NM_018093
 Red=Cloning site Green=Tags(s)

MAAAAARWNHVWGTETGILKGVNLQRKQAANL TAGGQPRREEAVSALCWGTGGETQMLVGCADRTVKHF
 STEDGIFQGQRHCPGGEGMFRGLAQADGLITCVDSGILRVWHDKDKDTSSDPLLELRVGPVCRMRQDP
 AHPHVVATGGKENALKIWDLQGSSEEPVFRANKVRNDWDLRVPIWDQDIQFLPGSQKLVCTGYHQVRY
 DPASPQRRPVLETTYGEYSLTAMTLTPGGNSVI VGNTHGQLAEIDL RQGRLLGCLKGLAGSVRGLQCHPS
 KPLLASCGLDRVLRIHGTQNPRLGEHKVYLKSQLNCLLLSGRDNWEDEPQEPQEPNKVPLEDTETDELWA
 SLEAAAKRKL SGL EQPQ GALQTRRRKKKRP GSTSP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018093

ORF Size: 1155 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.

RefSeq: [NM_018093.1](#), [NP_060563.1](#)

RefSeq Size: 1366 bp

RefSeq ORF: 1158 bp

Locus ID: 54663

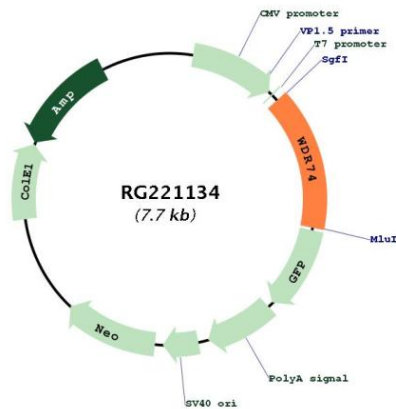
UniProt ID: [Q6RFH5](#)

Cytogenetics: 11q12.3

Domains: WD40

Gene Summary: Regulatory protein of the MTREX-exosome complex involved in the synthesis of the 60S ribosomal subunit (PubMed:26456651). Participates in an early cleavage of the pre-rRNA processing pathway in cooperation with NVL (PubMed:29107693). Required for blastocyst formation, is necessary for RNA transcription, processing and/or stability during preimplantation development (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG221134