

## Product datasheet for **SC113772**

### WDR74 (NM\_018093) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	WDR74 (NM_018093) Human Untagged Clone
Tag:	Tag Free
Symbol:	WDR74
Synonyms:	Nsa1
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_018093, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCTGCTGCTGCACGCTGGAACCATGTGTGGTGGCACCAGACTGGGATCTTGAAGGGGTAA
ATCTTCAGCGAAAACAGGCGGCGAACTTCACGGCCGAGGACAGCCGCGGCGAGGAGGCAGTGAGCGC
CCTGTGTGGGGCACGGCGGCGAGACCCAGATGCTGGTGGGCTGCGCGGACAGGACGGTGAAGCACTTC
AGCACCGAGGATGGCATATTCAGGGTCAGAGACTGCCCGGGCGGGAGGGCATGTTCCGTGGCCTCG
CCCAGGCCGACGGCACCCCTCATCATGTGTGGATTCTGGGATTCTCAGAGTCTGGCATGACAAGACAA
GGACACATCCTCTGACCCACTCCTGGAAGTGGAGTGGGCCCTGGGGTGTGTAGGATGCGCCAAGACCCA
GCACACCCCATGTGGTTGCCACAGGTGGGAAAGAGAATGCTTTGAAGATATGGGACCTGCAGGGCTCTG
AGGAACCTGTGTTGAGGGCCAAGAAGCTGCGGAATGACTGGTGGACTTGCAGGGTCCCCTCTGGGACCA
GGACATACAGTTTCTCCCAGGATCACAGAAGCTTGTACCTGCACAGGGTACCACCAGGTCGGTGTATAT
GATCCAGCATCCCCCAGCGCCGCGCAGTCTAGAGACCCTATGGAGAGTACCCACTAACAGCCATGA
CCCTCACTCCGGGAGGCAACTCAGTATTGTGGGAAACTCATGGGCAGCTGGCAGAAAATTGACCTTCG
GCAAGGGCGTCTACTGGGCTGTCTGAAGGGCTGGCAGGCAAGTGTGCGTGGTTCAGTGCCACCCCTCA
AAGCCTCTACTAGCCTCCTGTGGCTTGGACAGAGTCTTGAGGATACACAGGATCCAGAATCCACGGGTC
TGGAGCATAAGGTTTATCTCAAGTCTCAATTGAACTGCCTCTTGTGAGGAGGCAACTGGGAGGA
TGAGCCCCAAGAGCCTCAAGAACCAACAAGGTGCCCTAGAAGACACAGAGACAGATGAACTTTGGGCA
TCCTTGAGGCGAGCTGCCAAGCGGAAGCTCTCGGGTTTGGAGCAGCCCCAAGGAGCTCTCCAACGAGAC
GGAGAAAGAAGAAGCGGCTGGGTCCACCAGCCCTGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_018093 unedited GGATTTGTAACCGACTTACTATAGGNNCGGCCGCAATTCGGCACGAGGTCATGGCGG TTGCTGCTGCACGCTGGAACCATGTGTGGGTCGGCACCAGACTGGGATCTTGAAAGGGG TAAATCTTCAGCGAAAACAGGCGGCGAACTTCACGGCCGAGGACAGCCGCGCGGAGG AGGCAGTGAGCGCCCTGTGTTGGGGCACCGGCGGCGAGACCCAGATGCTGGTGGGCTGCG CGGACAGGACGGTGAAGCACTTCAGCACCGAGGATGGCATATTCAGGGTCAGAGACACT GCCCGGGCGGGGAGGGCATGTTCCGTGGCCTCGCCCAGGCCGACGGCACCCCTCATCACAT GTGTGGATTCTGGGATTCTCAGAGTCTGGCATGACAAGGACAAGGACACATCCTCTGACC CACTCCTGGAAGTGAAGTGGGCCCTGGGGTGTGTAGGATGCGCCAAGACCCAGCACACC CCCATGTGGTTGCCACAGGTGGGAAAGAGAATGCTTTGAAGATATGGGACCTGCAGGGCT CTGAGGAACCTGTGTTCCAGGGCCAAGAACGTGCGGAATGACTGGCTGGACCTGCGGGTTC CCATCTGGGACCAGGACATACAGTTTCTCCAGGATCACAGAAGCTTGTCACCTGCACAG GGTACCACCAGGTCCGTGTTATGATCCAGCATCCCCCAGCGCCGGCCAGTCTAGAGA CCACCTATGGAGAGTACCCACTAACAGCCATGACCCTTACTCCGGGGAGCAACTCAGTGA TTGGTGGAAACACTCATGGGAGCTGGCAGAAATTGACCTTTCGAAGGGCTCTACTGGG CTGTCTGAAGGGGCTGCAGGCANTGTGCGTGGGTTGCATTGCCACCTCAAGGCTCTA CTAGCCTCCTGGGGCTTGACAAAGCTCTGAGGATCCCCGGATCCACAATCACGGGGTCT GGAGCATAAGTTTACTCAGTCTT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_018093
<b>Insert Size:</b>	1350 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_018093.1</a></u> , <u><a href="#">NP_060563.1</a></u>
<b>RefSeq Size:</b>	1366 bp
<b>RefSeq ORF:</b>	1158 bp
<b>Locus ID:</b>	54663
<b>UniProt ID:</b>	<u><a href="#">Q6RFH5</a></u>
<b>Cytogenetics:</b>	11q12.3
<b>Domains:</b>	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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).