

Product datasheet for SC114654

RWDD3 (NM_015485) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RWDD3 (NM_015485) Human Untagged Clone
Tag:	Tag Free
Symbol:	RWDD3
Synonyms:	RSUME
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114654 sequence for NM_015485 edited (data generated by NextGen Sequencing)

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ATGGCGGAGCCTGTGCAGGAGGAGCTCTCGGTCCTGGCCGCGATTTTCTGCAGGCCCCAC
GAGTGGGAGGTGCTGAGCCGCTCAGAGACAGATGGGACCGTGTTTCCAGAAATTCACACAAAA
GCTGAAGGATTTATGGATGCGGATATACCTCTGGAATTGGTGTCCATTTGCCAGTCAAT
TATCCTTCATGTCTACCTGGTATCTCGATTAACCTCTGAACAGTTGACCAGGGCCAGTGT
GTGACTGTGAAAGAGAAGTTACTTGAGCAAGCAGAGAGCCTTTTGTGGAGCCTATGGTT
CATGAGCTGGTTCTCTGGATTTCAGCAGAATCTCAGGCATATCCTCAGCCAACCAGAACT
GGCAGTGGCAGTGAAGAGTGTACTTTTTCAACAAGCACGACCATGGATGATGGATTGTGG
ATAACTCTTTTGCATTTAGATCACATGAGAGCAAAGACTAAATATGTCAAAATTGTGGAG
AAGTGGGCTTCAGATTTAAGGCTGACAGGAAGACTGATGTTTCATGGGTAATAAATACTG
ATTTTACTACAGGGAGACAGAAACAACCTCAAGNNNNNNNNNTTCTTCAGAAAACCTCC
AAAGTAGATGTGGACTCAAGTGGAAAGAAATGCAAGAGAAAATGATTAGTGTACTGTTT
GAAACAAAAGTACAGACAGAACAAGGTTTCTGGCATTGAAAGTCAAAGAGTATTCA
GCGTTGGATGAATTACAAAAGGAATTTGAAACTGCAGGACTTAAGAAGCTTTTCTCCGAA
TTTGTACTTGCTCTGGTAAAATGA

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Clone variation with respect to NM_015485.4
258 t=>g;575 a=>n;576 g=>n;577 t=>n;578 a=>n;579 c=>n;580 t=>n;581 t=>n;582 g=>n;583 a=>n



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015485 unedited
 NNNGGGTTCAAAATTTTGTATACGACTCCTATAGGCGGCCGNAATTCGCACGAGGGGA
 AGCGCTGAGGCGGTGGGGCCACAGCCATGGCGGAGCCTGTGCAGGAGGAGCTCTCGGTC
 CTGGCCGCGATTTTCTGCAGGCCACAGTGGGAGGTGCTGAGCCGCTCAGAGACAGAT
 GGGACCGTGTTCAGAATTCACACAAAAGCTGAAGGATTTATGGATGCGGATATACCTCTG
 GAATTGGTGTTCATTTGCCAGTCAATTATCCTTCATGTCTACCTGGTATCTCGATTAAC
 TCTGAACAGTTGACCAGGGCCAGTGTGTGACTGTGAAAGAGAAGTTACTTGAGCAAGCA
 GAGAGCCTTTTGTGCGAGCCTATGGTTCATGAGCTGGTTCTCTGGATTCAGCAGAATCTC
 AGGCATATCCTCAGCAACCAGAACTGGCAGTGGCAGTGAAAAGTGTACTTTTTCAACA
 AGCAGCACCATGGATGATGGATTGTGGATAACTCTTTTGCATTTAGATCACATGAGAGCA
 AAGACTAAATATGTCAAATTTGTGGAGAAGTGGGCTTCAGATTTAAGGCTGACAGGAAGA
 CTGATGTTTCATGGTAAAATAATACTGATTTTACTACAGGGAGACAGAAACAACCTCAAG
 GTGCCAAAAGTTAAATGTTGAGTATGAATCTGGCTATTTTCTGCTTTAAATGGTGTGTC
 TTTAAGTGTGTTTTATAACAATGGGATAGATTAATTATTAAGATGTTTCTGCTTTCATTA
 TTACAATCTTAATGGATCTTCTTTTCTTTTAAAGAATGTCTGACTGCNTATTACAAGT
 ACAAACCTTGCCAAGCTTGAAGATAAGATTGCATTTTAAAATCTC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_015485 unedited
 ACCGCGGGCCGCAATCTAGAGTCGAGGNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTAAAAAATCTTTTATTTCCAAAAAATTCCTCAAAAAATTCCTTTT
 TTTCAAACAAATTTTGTTTTTAAAAACAGGGGGCCTTTCCCATTTTTTAAAAATTTATTT
 TAAAAAAAGGGCTAATTTACGGAACCTACCCTTTCCGGGAAAACATTAATAAACAAG
 TTTTTTTCAGGTTAAAAATTCATAAAAACAAAACGGGTTTTTGTCCCTGAAGTAAAAAGG
 AGCCCTATCTTTTGGCTTCAAAAAAATTTAAATGAGCCTTTTTAAATAACCCCCCTCC
 AAACCCAGGGCAAAACCAACAAAAAACCCTGTTTTTTTACAAAAAATCCCGGGCTTCCA
 TTTCAATTAACCAAGCAGGTCCAAATTCGGAATAAAGCTTTTTAAGCCCTGCAGTTCCA
 AATCCCTTTGAAATCCACCAACGCTGAAAATTTTTGACTTCAAAGGCCAAAACCTG
 CTTTATACAAAAAACCTCAGGAATATCCCTAGATTTGCCAAAGTATAATTATGGATTCA
 GTGGCTTTTCCATCGGCAAAAAGAACTAAATATCCCTTTGGGGTTCGGCTGACCTTTGG
 TTACAAACAGAACACTAATCATTTTCTTTTTGCAATTTCTTTCCCTGGAGCCACATTTA
 CTTGTGGAGTTTTCTGAAGAATCAAGGCCCTCTAAATAAATAACCCGGCACCTTTAA
 AATCCTTTTCTTTACTTTGAGCCCAAGGCCCTTAAAGAAAGCTTTAACACGTGGA
 GCGTTATTTTTCATGCTTAAACCCCTTTTTTAAACCAAGCAGGAAGAATTTTATATCCT
 TGTTTACAATCCTGGGCAGAAAAGGTAGGGGCGGTCCCAGGAATAAGACAATATACCCA
 CCTCCAGGNTTAAACGGGATGACCGCTACAAGTCTACCTGGGCGGGCACTAAAATGT
 GGGACAGCGCCTCCAN

Restriction Sites:

NotI-NotI

ACCN:

NM_015485

Insert Size:

3270 bp

OTI Disclaimer:

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).

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:	<u>NM_015485.3, NP_056300.1</u>
RefSeq Size:	1093 bp
RefSeq ORF:	588 bp
Locus ID:	25950
Cytogenetics:	1p21.3
Domains:	RWD
Gene Summary:	<p>Enhancer of SUMO conjugation. Via its interaction with UBE2I/UBC9, increases SUMO conjugation to proteins by promoting the binding of E1 and E2 enzymes, thioester linkage between SUMO and UBE2I/UBC9 and transfer of SUMO to specific target proteins which include HIF1A, PIAS, NFKBIA, NR3C1 and TOP1. Isoform 1 and isoform 2 positively regulate the NF-kappa-B signaling pathway by enhancing the sumoylation of NF-kappa-B inhibitor alpha (NFKBIA), promoting its stabilization which consequently leads to an increased inhibition of NF-kappa-B transcriptional activity. Isoform 1 and isoform 2 negatively regulate the hypoxia-inducible factor-1 alpha (HIF1A) signaling pathway by increasing the sumoylation of HIF1A, promoting its stabilization, transcriptional activity and the expression of its target gene VEGFA during hypoxia. Isoform 2 promotes the sumoylation and transcriptional activity of the glucocorticoid receptor NR3C1 and enhances the interaction of SUMO1 and NR3C1 with UBE2I/UBC9. Has no effect on ubiquitination.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (a).</p>