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Product datasheet for SC334412

RWDD3 (NM_001199682) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RWDD3 (NM_001199682) Human Untagged Clone
Tag:	Tag Free
Symbol:	RWDD3
Synonyms:	RSUME
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001199682, the custom clone sequence may differ by one or more nucleotides

ATGGCGGAGCCTGTGCAGGAGGAGCTCTCGGTCCTGGCCGCGATTTTCTGCAGGCCCCACGAGTGGGAGG
TGCTGAGCCGCTCAGAGACAGATGGGACCGTGTTCAGAATTCACACAAAAGCTGAAGGATTTATGGATGC
GGATATACCTCTGGAATTGGTGTTCCATTTGCCAGTCAATTATCCTTCATGTCTACCTGGTATCTCGATT
AACTCTGAACAGTTGACCAGGGCCCAGTGTGTGACTGTGAAAGAGAATTTACTTGAGCAAGCAGAGAGCC
TTTTGTCGGAGCCTATGGTTCATGAGCTGGTTCTCTGGATTCAGCAGAATCTCAGGCATATCCTCAGCCA
ACCAGAAACTGGCAGTGGCAGTGAAAAGTGTACTTTTTCAACAAGCACGACCATGGATGATGGATTGTGG
ATAACTCTTTTGCATTTAGATCACATGAGAGCAAAGACTAAATATGTCAAAATTGTGGAGAAGTGGGCTT
CAGATTTAAGGCTGACAGGAAGACTGATGTTCATGGGAGTACTTGATTCTTCAGAAAACCTCCAAAGTAG
ATGTGGACTCAAGTGGAAAGAAATGCAAAGAGAAAATGATTAG

Restriction Sites:	SgfI-MluI
ACCN:	NM_001199682
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).

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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_001199682.1, NP_001186611.1

RefSeq Size: 1203 bp

RefSeq ORF: 603 bp

Locus ID: 25950

Cytogenetics: 1p21.3

Gene Summary: 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]
Transcript Variant: This variant (3) uses an alternate splice site, which results in a frameshift, compared to variant 1. The encoded isoform (c) is shorter and has a distinct C-terminus, compared to isoform a.