

## Product datasheet for **TP325219**

### **RWDD3 (NM\_001128142) Human Recombinant Protein**

#### Product data:

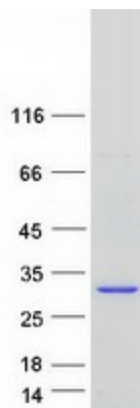
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human RWD domain containing 3 (RWDD3), transcript variant 2, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC225219 representing NM_001128142 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MAEPVQEELSVLAAIFCRPHEWEVLSRSETDGTVFRIHTKAEGFMDADIPLELVFHLVPVNYPSCLPGISI NSEQLTRAQCVTVKENLLEQAESLLSEPMVHELVLWQQNLRHILSQPETGSGSEKCTFSTSTTMDDGLW ITLLHLDHMRKATKYVKIVEKWASDLRLTGRLMFMGKIILLQGDRNNLKVPKS  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	21.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u><a href="#">NP_001121614</a></u>
Locus ID:	25950
UniProt ID:	<u><a href="#">Q9Y3V2</a></u>



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<b>Cytogenetics:</b>	1p21.3
<b>RefSeq ORF:</b>	585
<b>Synonyms:</b>	RSUME
<b>Summary:</b>	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]

### Product images:



Coomassie blue staining of purified RWDD3 protein (Cat# TP325219). The protein was produced from HEK293T cells transfected with RWDD3 cDNA clone (Cat# [RC225219]) using MegaTran 2.0 (Cat# [TT210002]).