

Datasheet for ABIN7555192  
**RFWD3 Protein (AA 1-774) (His tag)**



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## Overview

Quantity:	1 mg
Target:	RFWD3
Protein Characteristics:	AA 1-774
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RFWD3 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant RFWD3 Protein expressed in mammalian cells.
Sequence:	MAHEAMEYDV QVQLNHAEQQ PAPAGMASSQ GGPALLQPVP ADVVSSQGVP SILQPAPAEV ISSQATPPLL QPAPQLSVDL TEVEVLGEDT VENINPRTSE QHRQGS DGNH TIPASSLHSM TNFISGLQRL HGMLEFLRPS SSNHSVGP MR TRRRVSASRR ARAGGSQRTD SARLRAPLDA YFQVSRTPD LPATTYDSET RNPVSEELQV SSSSDSDSDS SAEYGGVVDQ AEESGAVILE EQLAGVSAEQ EVTCIDGGKT LPKQPSPQKS EPLLPSASMD EEEGDTCTIC LEQWTNAGDH RLSALRCGHL FGYRCISTWL KGQVRKCPQC NKKARHSDIV VLYARTLRAL DTSEQERMKS SLLKEQMLRK QAELESAQCR LQLQVLTDKC TRLQRRVQDL QKLTSHQSQN LQQPRGSQAW VLSCSPSSQG QHKHKYHFQK TFTVSQAGNC RIMAYCDALS CLVISQPSPQ ASFLPGFGVK MLSTANMKSS QYIPMHGKQI RGLAFSSYL R GLLLSASLDN TIKLTSLETN TVVQTYNAGR PVWSCCWCLD EANYIYAGLA NGSILVYDVR NTSSHVQELV AQKARCPLVS LSYM PRAASA AFPYGGVLAG TLEDASFWEQ KMDFSHWPHV LPLEPGGCID FQTENSSRHC LVTYRPDKNH TTIRSVLMEM SYRLDDTGNP ICSCQPVHTF FGGPTCKLLT KNAIFQSPEN DGNILVCTGD

## Product Details

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EAANSALLWD AASGSLQLDL QTDQPVLIDIC PFEVNRNSYL ATLTEKMHVI YKWE **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

**Specificity:** If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

**Characteristics:** **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

**Purity:** > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

**Grade:** custom-made

## Target Details

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**Target:** RFWD3

**Alternative Name:** RFWD3 ([RFWD3 Products](#))

**Background:** E3 ubiquitin-protein ligase RFWD3 (EC 2.3.2.27) (RING finger and WD repeat domain-containing protein 3) (RING finger protein 201),FUNCTION: E3 ubiquitin-protein ligase required for the repair of DNA interstrand cross-links (ICL) in response to DNA damage (PubMed:21504906, PubMed:21558276, PubMed:26474068, PubMed:28575657, PubMed:28575658, PubMed:33321094). Plays a key role in RPA-mediated DNA damage signaling and repair (PubMed:21504906, PubMed:21558276, PubMed:26474068, PubMed:28575657, PubMed:28575658, PubMed:28691929). Acts by mediating ubiquitination of the RPA complex

## Target Details

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(RPA1, RPA2 and RPA3 subunits) and RAD51 at stalled replication forks, leading to remove them from DNA damage sites and promote homologous recombination (PubMed:26474068, PubMed:28575657, PubMed:28575658). Also mediates the ubiquitination of p53/TP53 in the late response to DNA damage, and acts as a positive regulator of p53/TP53 stability, thereby regulating the G1/S DNA damage checkpoint (PubMed:20173098). May act by catalyzing the formation of short polyubiquitin chains on p53/TP53 that are not targeted to the proteasome (PubMed:20173098). In response to ionizing radiation, interacts with MDM2 and enhances p53/TP53 ubiquitination, possibly by restricting MDM2 from extending polyubiquitin chains on ubiquitinated p53/TP53 (PubMed:20173098). Required to translesion DNA synthesis across DNA-protein cross-link adducts by catalyzing ubiquitination of proteins on single-stranded DNA (ssDNA) (PubMed:33321094). {ECO:0000269|PubMed:20173098, ECO:0000269|PubMed:21504906, ECO:0000269|PubMed:21558276, ECO:0000269|PubMed:26474068, ECO:0000269|PubMed:28575657, ECO:0000269|PubMed:28575658, ECO:0000269|PubMed:28691929, ECO:0000269|PubMed:33321094}.

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Molecular Weight:	85.1 kDa
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UniProt:	<a href="#">Q6PCD5</a>
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## Application Details

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Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
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Restrictions:	For Research Use only
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## Handling

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Format:	Liquid
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Buffer:	The buffer composition is at the discretion of the manufacturer.
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Handling Advice:	Avoid repeated freeze-thaw cycles.
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Storage:	-80 °C
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Storage Comment:	Store at -80°C.
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Expiry Date:	12 months
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