

## Product datasheet for TP303304

### Cullin 2 (CUL2) (NM\_003591) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human cullin 2 (CUL2), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC203304 protein sequence Red=Cloning site Green=Tags(s)

MSLKPRVDFDETWNKLLTTIKAVVMLEYVERATWDRFSDIYALCVAYPEPLGERLYTETKIFLENHVR  
HLHKRVLESEEQVLVVMYHRYWEEYSKGADYMDCLYRYLNTQFIKKNKLTEADLQYGGVDMNEPLMEIG  
ELALDMWRKLMVEPLQAILIRMLLREIKNDRGGEDPNQKVIHGVINSFVHVEQYKKKFKFYQEIFESP  
FLTETGEYKQEASNLLQESNCSQYMEKVLGRLKDEEIRCRKYLHPSSYTKVIHECQORMVADHLQFLHA  
ECHNIIRQEKKNDMANMYVLLRAVSTGLPHMIQELQNHIDEGLRATSNTQENMPTLFVESVLEVHGKF  
VQLINTVLNGDQHFMSALDKALTSVNYREPKSVCAPPELLAKYCDNLLKKSAGKMTENEVEDRLTSFIT  
VFKYIDDKDVFQKFYARMLAKRLIHGLSMSMDSEEAMINKLKQACGYEFTSKLHRMYTDM SVSADLNNKF  
NNFIKNQDVIDLGISFQIYVLQAGAWPLTQAPSSTFAIQELESVQMFELFYSQHFSGRKLTLWLHYLC  
TGEVKMNYLGKPYVAMVTTYQMAVLLAFNNSETVSYKELQDSTQMNEKELTKTIKSLLDVKMINHDSEKE  
DIDAESSFLNMFSSKRTKFKITTSMQKDTPQEMEQRSAVDEDRKMYLQAAIVRIMKARKVLRHNALI  
QEVISQSRARFNPSISMIKKCIEVLIDKQYIERSQASADEYSYVA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

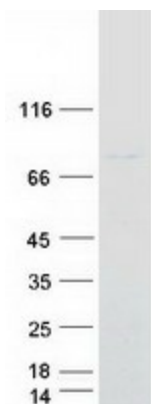
Tag:	C-Myc/DDK
Predicted MW:	86.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity 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.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_003582</a>
<b>Locus ID:</b>	8453
<b>UniProt ID:</b>	<a href="#">Q13617</a> , <a href="#">A0A140VKB1</a>
<b>RefSeq Size:</b>	4238
<b>Cytogenetics:</b>	10p11.21
<b>RefSeq ORF:</b>	2235
<b>Summary:</b>	Core component of multiple cullin-RING-based ECS (ElonginB/C-CUL2/5-SOCS-box protein) E3 ubiquitin-protein ligase complexes, which mediate the ubiquitination of target proteins. ECS complexes and ARIH1 collaborate in tandem to mediate ubiquitination of target proteins (PubMed:27565346). May serve as a rigid scaffold in the complex and may contribute to catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme. The E3 ubiquitin-protein ligase activity of the complex is dependent on the neddylation of the cullin subunit and is inhibited by the association of the deneddylated cullin subunit with TIP120A/CAND1. The functional specificity of the ECS complex depends on the substrate recognition component. ECS(VHL) mediates the ubiquitination of hypoxia-inducible factor (HIF).[UniProtKB/Swiss-Prot Function]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Pathways in cancer, Renal cell carcinoma, Ubiquitin mediated proteolysis

### Product images:



Coomassie blue staining of purified CUL2 protein (Cat# TP303304). The protein was produced from HEK293T cells transfected with CUL2 cDNA clone (Cat# [RC203304]) using MegaTran 2.0 (Cat# [TT210002]).