

## Recombinant Human CUL3 protein, MYC/DDK-tagged

Cat. No. CUL3-321H    Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| Product Overview | Recombinant Human CUL3 fused with MYC/DDK tag at C-terminal was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Species          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Source           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Description      | This gene encodes a member of the cullin protein family. The encoded protein plays a critical role in the polyubiquitination and subsequent degradation of specific protein substrates as the core component and scaffold protein of an E3 ubiquitin ligase complex. Complexes including the encoded protein may also play a role in late endosome maturation. Mutations in this gene are a cause of type 2E pseudohypoaldosteronism. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. |
| Form             | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Molecular Mass   | 88.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Purity           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Concentration    | >50 ug/mL as determined by microplate BCA method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

### GENE INFORMATION

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|                            |                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | CUL3 cullin 3 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                              |
| <b>Official Symbol</b>     | CUL3                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Synonyms</b>            | CUL3; cullin 3; cullin-3; CUL-3; PHA2E; FLJ25665;                                                                                                                                                                                                                                                                                                                           |
| <b>Gene ID</b>             | 8452                                                                                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>         | NM_003590                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>      | NP_003581                                                                                                                                                                                                                                                                                                                                                                   |
| <b>MIM</b>                 | 603136                                                                                                                                                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>          | Q13618                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Chromosome Location</b> | 2q36.2                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Pathway</b>             | ATF-2 transcription factor network, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Antigen processing: Ubiquitination and Proteasome degradation, organism-specific biosystem; Aurora B signaling, organism-specific biosystem; Canonical Wnt signaling pathway, organism-specific biosystem; Class I MHC mediated antigen processing &. |
| <b>Function</b>            | cyclin binding; protein binding; ubiquitin protein ligase binding; contributes_to ubiquitin-protein ligase activity;                                                                                                                                                                                                                                                        |

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