

# Recombinant human Parkin protein

Catalog Number: ATGP2517

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-465aa

### UniProt No.

O60260

### NCBI Accession No.

NP\_004553.2

### Alternative Names

E3 ubiquitin-protein ligase parkin, AR-JP, LPRS2, PDJ, PRKN

## PRODUCT SPECIFICATION

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### Molecular Weight

53.8 kDa (485aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

### Purity

> 80% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

The precise function of this gene is unknown; however, the encoded protein is a component of a multiprotein E3 ubiquitin ligase complex that mediates the targeting of substrate proteins for proteasomal degradation. Mutations in this gene are known to cause Parkinson disease and autosomal recessive juvenile Parkinson disease. Alternative splicing of this gene produces multiple transcript variants encoding distinct isoforms. Additional splice variants of this gene have been described but currently lack transcript support. Recombinant human PARK2 protein, fused to His-tag at N-terminus, was expressed in E. coli.

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## Amino acid Sequence

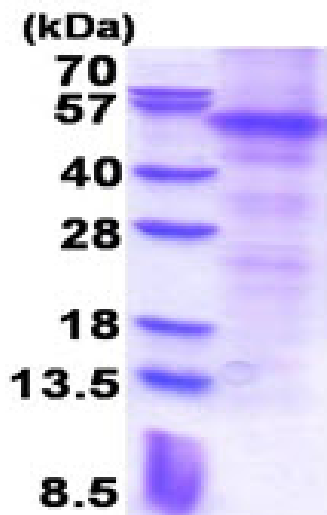
MGSSHHHHHH SSSLVPRGSH MIVFVRFNSS HGFPVEVDS DTSIFQLKEV AKRQGV PADQLRVIFAGKEL RNDWTVQNCD  
LDQQSIVHIV QRPWRKGQEM NATGGDDPRN AAGGCEREPEQ SLTRVDLSSS VLPGDSVGLA VILHTDSRKD SPPAGSPAGR  
SIYNSFYVYC KGPCQRVQPG KLRVQCSTCR QATLTLTQGP SCWDDVLIPN RMSGECQSPH CPGTSAEFFF KCGAHPTSDK  
ETSVALHLIA TNSRNITCIT CTDVRSPLV FQCNSRHVIC LDCFHLYCVT RLNDRQFVHD PQLGYSLPCV AGCPNSLIKE  
LHHFRILGEE QYNRYQQYGA EECVLQMGGV LCPRPGCGAG LLPEPDQRKV TCEGGNGLGC GFAFCRECKE AYHEGECSAV  
FEASGTTTQA YRVDERAAEQ ARWEAASKET IKKTTKPCPR CHVPVEKNGG CMHMKCPQPQ CRLEWCWNCG  
CEWNRVCMGD HWFDV

## General References

Imai Y., et al. (2000) J. Biol. Chem. 275:35661-35664  
Shimura H., et al. (2000) Nat. Genet. 25:302-305

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)