

# Recombinant Human parkin RBR E3 ubiquitin protein ligase, His-tagged

**Cat. No.** PARK2-420H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	PARK2, 1-465aa, Human, His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-465 a.a.
<b>Description</b>	<p>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.</p> <p>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.</p>
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
<b>Molecular Mass</b>	53.8 kDa (485aa)
<b>AA Sequence</b>	<p>MGSSHHHHHH SSGLVPRGSH MIVFVRFNSS HGFPVEVDSD TSIFQLKEVV  AKRQGV PADQ LRVIFAGKEL RNDWTVQNC DLDQQSIVHIV QRPWRKGGQEM  NATGGDDPRN AAGGCEREPQ SLTRVDLSSS VLPGDSVGLA VILHTDSRKD</p>

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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

**Purity** >80% by SDS - PAGE

**Storage** Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

**Concentration** 1 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [PARK2 parkinson protein 2, E3 ubiquitin protein ligase \(parkin\) \[ Homo sapiens \]](#)

**Official Symbol** PARK2

**Synonyms** PARK2; parkinson protein 2, E3 ubiquitin protein ligase (parkin); Parkinson disease (autosomal recessive, juvenile) 2, parkin; E3 ubiquitin-protein ligase parkin; AR JP; E3 ubiquitin ligase; parkin; PDJ; parkin 2; parkinson disease protein 2; parkinson juvenile disease protein 2; PRKN; AR-JP; LPRS2;

**Gene ID** [5071](#)

**mRNA Refseq** [NM\\_004562](#)

**Protein Refseq** [NP\\_004553](#)

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<b>MIM</b>	602544
<b>UniProt ID</b>	O60260
<b>Chromosome Location</b>	6q25.2-q27
<b>Pathway</b>	Adaptive Immune System, organism-specific biosystem; Alpha-synuclein signaling, organism-specific biosystem; Antigen processing: Ubiquitination and Proteasome degradation, organism-specific biosystem; Class I MHC mediated antigen processing & presentation, organism-specific biosystem; Immune System, organism-specific biosystem;
<b>Function</b>	PDZ domain binding; acid-amino acid ligase activity; chaperone binding; kinase binding; ligase activity; metal ion binding; protein binding; protein kinase binding; ubiquitin protein ligase binding; ubiquitin-protein ligase activity; zinc ion binding;

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