

Product datasheet for **KN206970RB**

PINK1 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control
Donor DNA:	RFP-BSD
Symbol:	PINK1
Locus ID:	65018
Components:	<p>KN206970G1, PINK1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCGGCCGGGCCTACGGCTTG</p> <p>KN206970G2, PINK1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGCGCTGCTGCTGCGCTTCA</p> <p>KN206970RBD, donor DNA containing left and right homologous arms and RFP-BSD functional cassette.</p> <p>Homologous arm and RFP-BSD sequences: pUC vector backbone in gray; Left arm sequence in blue; RFP-BSD in green; Right arm in violet</p> <pre> AAGGCGAGTT ACATGATCCC CCATGTTGTG CAAAAAAGCG GTTAGCTCCT TCGGTCCTCC GATCGTTGTC AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC CATCCGTAAG ATGCTTTTCT GTGACTGGTG AGTACTCAAC CAAGTCATTC TGAGAATAGT GTATGCCGGC ACCGAGTTGC TCTTGCCCGG CGTCAATACG GGATAATACC GCGCCACATA GCAGAATTTT AAAAGTGCTC ATCATTGGAA AACGTTCTC GGGGCGAAAA CTCTCAAGGA TCTTACCGT GTTGAGATCC AGTTCGATGT AACCCACTCG TGCACCCAAC TGATCTTCAG CATCTTTTAC TTTACCAGC GTTTCTGGGT GAGCAAAAAC AGGAAGGCAA AATGCCGCAA AAAAGGGAAT AAGGGCGACA CGGAAATGTT GAATACTCAT ACTCTTCCTT TTTCAATATT ATTGAAGCAT TTATCAGGT TATTGTCTCA TGAGCGGATA CATATTTGAA TGTATTTAGA AAAATAACA AATAGGGGTT CCGCGCAT TCCCCGAAA AGTGCCACCT GACGTCTAAG AAACCATTAT TATCATGACA TTAACCTATA AAAATAGGCG TATCACGAGG CCCTTTCGGG TCGCGGTTT CGGTGATGAC GGTAAAACC TCTGACACAT GCAGCTCCG TTGACGGTCA CAGCTTGCT GTAAGCGGAT GCCGGGAGCA GACAAGCCG TCAGGGCGC TCAGCGGGTG TTGGCGGGTG TCGGGGCTGG CTTAACTATG CGGCATCAGA GCAGATTGTA CTGAGAGTGC ACCATAAAAT TGTAACGTT AATATTTTGT TAAAATTCGC GTTAAATTTT TGTTAAATCA GCTCATTTTT TAACCAATAG GCCGAAATCG GCAAAATCCC TTATAATCA AAAGAATAGC CCGAGATAGG GTTGAGTGTT GTTCCAGTTT GGAACAAGAG TCCACTATTA AAGAACGTGG ACTCCAACGT CAAAGGGCGA AAAACCGTCT ATCAGGGCGA TGGCCCACTA CGTGAACCAT CACCAAATC AAGTTTTTTG GGGTCGAGGT GCCGTAAAGC ACTAAATCGG AACCCATAAG GGAGCCCCG ATTTAGAGCT TGACGGGGAA AGCCGGCGAA CGTGCGGAGA AAGGAAGGGA AGAAAGCGAA AGGAGCGGGC GCTAGGGCGC TGGCAAGTGT AGCGGTACG CTGCGGTAA CCACCACACC CGCCGCGCTT AATGCGCCG TACAGGGCGC GACTATGGT TGTTTTGACG TATGCGGTGT GAAATACCGC ACAGATCGCT AAGGAGAAAA TACCGCATCA GGCGCCATTC GCCATTCAGG CTGCGCAACT GTTGGGAAGG GCGATCGGTG CGGGCTCTT CGTATTACG CCAGCTGGCG AAAGGGGAT GTGCTGCAAG GCGATTAAGT TGGTAACGC CAGGGTTTTT CCAGTACGA CGTTGTAATA CGACGGCCAG TGAATTGGAG GCTACAGTCA GTGGAGAGGA CTTTCACTGA CTGACTGACT GCGTCTCAAC </pre>



CTCTCAGCAC ACTCATTTCAT AAATTGTGTC TTTTGGGTGA GATTTGTCTT GGGGTCTTCA AAACCCCTGA
 GACTGTGGAC ACATACAGCA GCCTAACGGC ATTGAGGAGG GCAAGCATTG AACAGTTAGG ACAATGTGAA
 CTGTAGCTCA GCTCTGCTAG GTACCTTCAC AAGACCTCGA ATGCTGCCCC TTAATATGCC TCGGTTTTCT
 TATCTATAAA AACGGCATTG TTATCTTGTG GGTGGAGCTG TAAATAAAT TAAAAGACGT AAAGGGTCTG
 GCACCATGGT TGGCAAAAAA TATCAGTTTC CCTTCTCGAC TTCTCGATTT TGCCCAGGAC CAGTGATGTT
 CACATTCAGG ACCTGCCTGA ACCGGCAAGC CCTCCACGTG GGTCCAAAGT GCAAAGGGAA AGTCACTGCT
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 GTCGGTGGCC GGGCTGGCGG CGCGGTTGCA GCGGCAGTTC GTGGTGCGGG CCTGGGGCTG CGCGGGCCCT
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 GGGCGGCGGT CTCGGCCTGT CAGGAGATCC AGGTGAGCGG GGCCGGGTCC TAAGCCGAGC GGAGGACGGA
 GCTAAGCGCG GGGGCGGGTC CTCAGCTGGG TGGGGCGGG GCTAGGTGTG GAGGCGGGG TCTGAGCAGA
 TCGAGGGCCG AGGCGAGGGT CCTTAAAGCT CATCTATTTT ACCATTACTG ATCGGCTGCT ATAAATAAAG
 CCAGCACCTC CCATTTGTTT TAATGTTTCC CTTCCTCAA TGAAGACATG TTGCCGATTA CAGCTCCTGT
 CGCAGCACAG CAAAAGGCTT TGTGTAATTT TTCTAAAATG TACGGACAAC TAAATCATAA CATTCTATC
 CCTTTGAGGT AGACGAACTG GCAGGTAAGT ACTGACTGGA AAGAGGAAGG GCTGGAAGAG GAAGGAGCTT
 GGCCTAATCA TGGTCATAGC TGTTTCCTGT GTGAAATTGT TATCCGCTCA CAATTCCACA CAACATACGA
 GCCGGAAGCA TAAAGTGTA AGCCTGGGGT GCCTAATGAG TGAGCTAACT CACATTAATT GCGTTGCGCT
 CACTGCCCGC TTTCCAGTCG GGAACCTGT CGTGCCAGCT GCATTAATGA ATCGGCCAAC GCGCGGGGAG
 AGCGGTTTG CGTATTGGGC GCTCTTCCG TCCCTCGCTC ACTGACTCGC TGGCCTCGGT CGTTCGGCTG
 GCGCGAGCGG TATCAGCTCA CTCAAAAGCG GTAATACGGT TATCCACAGA ATCAGGGGAT AACGCAGGAA
 AGAACATGTG AGCAAAAAGC CAGCAAAAAG CCAGGAACCG TAAAAAGGCC GCGTTGCTGG CGTTTTTCCA
 TAGGCTCCGC CCCCTGACG AGCATCACA AAATCGACGC TCAAGTCAGA GGTGGCGAAA CCCGACAGGA
 CTATAAGAT ACCAGGCGTT TCCCCTGGA AGCTCCCTCG TGCGCTCTCC TGTTCCGACC CTGCCGCTTA
 CCGGATACCT GTCCGCCTTT CTCCTTCGG GAAGCGTGGC GCTTTCTCAT AGCTCACGCT GTAGGTATCT
 CAGTTCGGTG TAGGTCGTTT GCTCCAAGCT GGGCTGTGTG CACGAACCCC CCGTTCAGCC CGACCGCTGC
 GCCTTATCCG GTAACATCG TCTTGAGTCC AACCCGGTAA GACACGACTT ATCGCCACTG GCAGCAGCCA
 CTGGTAACAG GATTAGCAGA GCGAGGTATG TAGGCGGTGC TACAGAGTTC TTGAAGTGGT GGCCTAACTA
 CGGCTACACT AGAAGAACAG TATTTGGTAT CTGCGCTCTG CTGAAGCCAG TTACCTTCGG AAAAAGAGTT
 GGTAGCTCTT GATCCGGCAA ACAAAACCACC GCTGGTAGCG GTGGTTTTTT TGTTCGCAAG CAGCAGATTA
 CGCGCAGAAA AAAAGGATCT CAAGAAGATC CTTTGATCTT TTCTACGGGG TCTGACGCTC AGTGAACGA
 AAACCTACGT TAAGGGATTT TGGTCATGAG ATTATCAAAA AGGATCTTCA CCTAGATCCT TTAAATTA
 AAATGAAGTT TAAATCAAT CTAAGGTATA TATGAGTAAA CTTGGTCTGA CAGTTACCAA TGCTTAATCA
 GTGAGGCACC TATCTCAGCG ATCTGTCTAT TTCGTTTCAT CATAGTTGCC TGACTCCCCG TCGTGTAGAT
 AACTACGATA CGGGAGGGCT TACCATCTGG CCCAGTGTCT GCAATGATAC CGCGAGAACC ACGCTCACC
 GCTCCAGATT TATCAGCAAT AAACCAGCCA GCCGGAAGGG CCGAGCGCAG AAGTGGTCTT GCAACTTTAT
 CCGCCTCCAT CCAGTCTATT AATTGTTGCC GGAAGCTAG AGTAAGTAGT TCGCCAGTTA ATAGTTTGCG
 CAACGTTGTT GCCATTGCTA CAGGCATCGT GGTGTCACGC TCGTCTGTTG GTATGGCTTC ATTCAGCTCC
 GGTCCCAAC GATC

GE100003, scramble sequence in pCas-Guide vector

Disclaimer:

These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.

RefSeq:

[NM_032409](#)

UniProt ID:

[Q9BXM7](#)

Synonyms: BRPK; PARK6

Summary: This gene encodes a serine/threonine protein kinase that localizes to mitochondria. It is thought to protect cells from stress-induced mitochondrial dysfunction. Mutations in this gene cause one form of autosomal recessive early-onset Parkinson disease. [provided by RefSeq, Jul 2008]

Product images:

