

Product datasheet for **SC124162**

LRRK2 (NM_198578) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRRK2 (NM_198578) Human Untagged Clone
Tag:	Tag Free
Symbol:	LRRK2
Synonyms:	AURA17; DARDARIN; PARK8; RIPK7; ROCO2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_198578 edited
 CCGGCGCCCTGCCGGTTTCCCTGAGCAGCGGACGTTTCATGCTGGGAGGGCGCGGGTTG
 GAAGCAGGTGCCACCATGGCTAGTGGCAGCTGTCAGGGGTGCGAAGAGGACGAGGAACT
 CTGAAGAAGTTGATAGTCAGGCTGAACAATGTCCAGGAAGGAAAACAGATAGAAACGCTG
 GTCCAAATCCTGGAGGATCTGCTGGTGTTCACGTACTCCGAGCACGCCTCCAAGTTATTT
 CAAGGCAAAAATATCCATGTGCCTCTGTTGATCGTCTTGACTCCTATATGAGAGTCGCG
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 CAAGAGAATGATGATGAGGGGGAAGAAGATAAATTTGTTTTGGCTGGAAGCCTGTTACAAA
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 AATCTCCTTATGTACAAAACAGTTTACATGAGAAGATTGGAGATGAAGATGGCCATTTT
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 CAGGCATCTGCGAATGCATTGTCAACTCTCTTAGAACAAAATGTTAATTTCAAAAAATA
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 CCTGAAGTGGCTGAAAGTGGCTGTAATAATGCTAAATCATTTTTGAAGGAAGCAACACT
 TCCTGGATATAATGGCAGCAGTGGTCCCAAAATACTAACAGTTATGAAACGTCATGAG



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 GTTCCAGTGTATCTCTTTCATTGTTACTTTGTATTTGCAATTTTTTTTACCAAAGACAA
 ATTAATAAATGAATACCATATTTAAATGGAATAATAAAGGTTTTTTTAAAAACTTTAAAA
 AAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_198578 unedited
 GTTCAAATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACCAGGCCGGCGCCCC
 TGCCGGTTCCTGAGCAGCGGACGTTTCATGCTGGGAGGGCGCGGTTGGAAGCAGGTGC
 CACCATGGCTAGTGGCAGCTGTCAGGGGTGCGAAGAGGACGAGGAACTCTGAAGAAGTT
 GATAGTCAGGCTGAACAATGTCAGGAAGGAAAACAGATAGAAAACGCTGGTCCAAATCCT
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 TGGATGCAAAGCTTTACATGTGCTGTTTGGAGAGTCTCAGAAGCAACTGACTGAATT
 TGTTGAGAACAAGATTATGATATTGTTAAGTGCCTTAACAAATTTTAAAGATGAAGA
 GGAAATTTGCTTCATGTGCTGCATTGTTTACATTCCTAGCGAT

Restriction Sites:

Please inquire

ACCN:

NM_198578

Insert Size:

9300 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_198578.2](#), [NP_940980.2](#)

RefSeq Size: 9234 bp

RefSeq ORF: 7584 bp

Locus ID: 120892

UniProt ID: [Q5S007](#)

Cytogenetics: 12q12

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Parkinson's disease

Gene Summary: This gene is a member of the leucine-rich repeat kinase family and encodes a protein with an ankryin repeat region, a leucine-rich repeat (LRR) domain, a kinase domain, a DFG-like motif, a RAS domain, a GTPase domain, a MLK-like domain, and a WD40 domain. The protein is present largely in the cytoplasm but also associates with the mitochondrial outer membrane. Mutations in this gene have been associated with Parkinson disease-8. [provided by RefSeq, Jul 2008]