

## Product datasheet for **SC318700**

### LRRK1 (NM\_024652) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LRRK1 (NM_024652) Human Untagged Clone
Tag:	Tag Free
Symbol:	LRRK1
Synonyms:	RIPK6; Roco1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_024652 edited  
 ATGGCTGGCATGTCGCAAAGACCCCCAGCATGTACTGGTGTGGGGCCGGAGGAGTCA  
 GCTGTGTGCCAGAACGTGCCATGGAGACGCTTAACGGTGCCGGGACACGGGCGCAAG  
 CCGTCCACGCGGGCGGTGACCCCTGCAGCGCGGTCCCGCAGGACGGAAGGCATCCGCGCC  
 CGGTACAGGGCGGGAGACCGCGCGCGCCCGGACCTGCTGGAGGAGGCTGCGACCAG  
 TGCGCGTCCCAGCTGGAAAAGGCCAGCTTCTGAGCATCCCGGCAGCCTATGGGGATCTG  
 GAGATGGTCCGCTACCTACTCAGCAAGAGACTGGTGGAGCTGCCACCGAGCCCACGGAT  
 GACAACCCAGCCGTGGTGGCAGCGTATTTTGGACACACGGCAGTTGTGCAGGAATTGCTT  
 GAGTCCTTACCAGGTCCTGCAGTCCCCAGCGCTTCTGAACTGGATGCTGGCCTTGGCT  
 TGCCAGCGAGGGCACCTGGGGTGTGAAGCTCCTGGTCTGACGCACGGGGCTGACCCG  
 GAGAGCTACGCTGTCAGGAAGAATGAGTTCCTGTCATCGTGCCTTGCCCTGTATGCG  
 GCCATCAAGTCAGGAATGAAGACATTGCAATATTCCTGCTTCGGCATGGGCCTATTTT  
 TGTTCCCTACATCTTGCTGGATAGTCTGACCCAGCAAACATCTGCTGAGAAAGTACTTC  
 ATTGAAGCCAGTCCCTTGCCAGCAGTTATCCGGGAAAAACAGCTCTCCGTGTGAAATGG  
 TCCCATCTCAGACTGCCCTGGGTAGACCTAGACTGGTTCATAGACATCTCCTGCCAGATC  
 ACGGAGCTCGACCTTTCTGCCAACTGCCTGGCGACCCCTCCCTCGGTTATCCCTGGGGC  
 CTCATCAATCTCCGGAAGCTGAACCTCTCCGACAACCACTGGGGGAGCTGCCTGGCGTG  
 CAGTCACTCGGACGAAATCATCTGTTCCAGGCTACTTGAATTTGACATTTCCAGCAACAAG  
 TTGTCCCACCTCCCTCCTGGATTCTTGCACCTCTCAAACCTTCAAACCTGACAGCTTCA  
 AAAAAATTGTTTAGAAAAATTTGTTGGAAGAAGAAAATGCCACTAACTGGATAGGTTTACGG  
 AAGCTACAGGAACTTGATATATCTGACAATAAATTGACAGAACTCCCTGCCTGTTCCCTT  
 CACTCTTTCAAGTCCCTCAATTCTCTGAATGTCTCCAGAAAACCTGAAGGTGTTTCCA  
 GATCCCTGGGCTGCCCTTTGAAATGTTGTAAAGCTTCCAGAAATGCCCTGGAATGTCTG  
 CCAGACAAAATGGCTGTCTTTTGGAAAAATCACCTGAAGGATGTGGATTCTCAGAAAAC  
 GCACTCAAAGAAGTTCCCTGGGACTTTTCCAGCTTGATGCCCTCATGTTCTTGAGGTTA  
 CAGGGGAACCACTGGCGGCACTTCCACCTCAAGAGAAGTGGACCTGCAGGCAGCTCAA  
 ACCCTGGATCTCTCCAGAAACCACTTGGCAAAAATGAAGATGGACTGAAAACGAAGCGT



[View online »](#)

ATTGCCTTTTTACCACCAGAGGTGCCAGCGCTCCGGGACTGAGGCAGCAAGTGTGCTG  
 GAATTTCCGGCCTTCTAAGTGAGTCTTTGGAAGTCTTTGCCTGAACGACAACCACCTC  
 GACACAGTCCCTCCCTCGGTTTGCCTACTGAAGAGCTTATCAGAGCTCTACTTGGGAAAC  
 AACCTGGCCTCCGGGAGCTCCCTCCTGAGCTGGGGCAGCTGGGCAACCTCTGGCAGCTG  
 GACACTGAAGACCTGACCATCAGCAATGTGCTGCAGAAATCCAAAAAGAAGGCCCAAA  
 GCAATGCTGTCTTACCTGCGTGCTCAGCTGCGGAAAGCGGAAAAGTGAAGCTGATGAAG  
 ATGATCATCGTGGGTCCCCCGCCAGGGCAAGTCCACCCTCTGGAGATCTTACAGACG  
 GGGAGGGCCCCCAGGTGGTGCATGGAGAGGCCACCATCAGGACCACCAAGTGGGAGCTC  
 CAGAGGCCGGCTGGCTCAAGAGCCAAGTTGAGTCCGTGGAGTTCAACGTCTGGGACATC  
 GGGGGACCGCCAGCATGGCCTGTCAACCAGTGCTTCTTACGGACAAGGCCCTGTAC  
 GTGGTGGTCTGGAACCTGGCGCTGGGGAGGAGGCCGTGGCCAACCTCCAGTTCTGGCTG  
 CTCAACATCGAGGCCAAGGCCCAACGCCGTGGTGTGGTGGTGGGACGCACCTGGAT  
 TTAATTGAAGCCAAGTCCGTGTGGAAGGATTGCAACGTGCGTGCCTATGTGTGGCA  
 CTCTGCCGCTCCCTCCGGCTCCAGGGCCACAGGCTTCCAGACATCACCTTCAAACAC  
 TTACATGAGATTTCTGCAAGAGCTGGAAGGTGAGGAAGGGCTGCGACAGCTGATTTTC  
 CAGCTCACGTGCAGCATGAAGGACGTGGGCAGCACCATCGGCTGCCAGCGACTGGCAGGG  
 CGGCTGATCCCCAGGAGTACCTGAGCCTGCAGGAGGCCGTGCTGGCAGAGCAGCAGCGC  
 CGCAGCCGGGACGACGACGTGCAGTACCTGACGGACAGGCAGCTGGAGCAGCTGGTGGAG  
 CAGACGCCGACAACGACATCAAGGACTACGAGGACCTGCAGTCAGCCATCAGCTTCCCTC  
 ATAGAAACCGGCACCCTGCTCCATTTCCCGACACCAGCCACGGCCTGAGGAACCTCTAC  
 TTCTCGACCCTATTTGGCTCTCCGAATGTCTGCAGAGGATCTTTAATATTAAGGGCTCT  
 CGGTGAGTGGCCAAGAATGGGGTGTGAGAGCAGAAGACCTCAGGATGCTGCTGGTGGGG  
 ACTGGCTTACGCGACGACGGAAGAGCAGTACTTCCAGTCTCTGGCCAAGTTTGAGATG  
 GCCCTGCCCGTCCCAATGACAGCTACCTCCTGCCCATCTCCTTCCATCTAAACCTGGC  
 CTGGACACCCACGGTATGCGGCACCCACAGCCAACACCATTGAGGGTATTTAAGATG  
 AGCTTCGTTCCCGTTGGCTTCTGGCAAAGTTTATAGCACGGATGCTGATCAGCCTGGCG  
 GAGATGGACCTGCAGCTTTTGAACAAGAAGAATACTAAAAGCAGGAACAGGAAAGTC  
 ACCATTTACAGTTTTACAGGAAACCAGAGAAATCGCTGTAGCACATTGAGTGAAGA  
 AATCAGACCATCTATTGGCAGGAAGGGCTCCTGGTCACTTTTGTGGGGCTACCTCAGT  
 GTGGAATCTTCCGACGTGAAGTGAAGAAAGAAAGCGGAGGAATGAAAATTGTTTGC  
 CAATCAGAAGTGAGGGACTTCTCAGCCATGGCTTTCATCAGGACCACGTCATTCCTTG  
 ATGATCAGTGGTTTTCCGCCCTGACAGCCACAGAGAGCGACGGGACGCCACTCATGGAG  
 CAGTACGTGCCCTGCCCGGTCTGCGAGACAGCCTGGGCCAGCACACGGACCCCAAGTGA  
 AAATCAGAGGATGTGAGTACTTCGACATGGAAGACTGTGTCCTGACGGCCATCGAGCGG  
 GACTTCATCTCCTGCCCCAGACACCCGGACCTCCCCGTGCCGCTGCGAGGAGCTGGTCCCT  
 GAACTGTTGATGACCGACTTCCCGGCCAGGCTCTTCTGGAGAACAGCAAGCTGGAGCAC  
 AGCGAGGACGAGGGCAGCGTCTGGGCCAGGGCGGCAGTGGCACCGTCATCTACCGGGCC  
 CGGTACCAGGGCCAGCCTGTGGCCGTCAAGCGCTTCCACATCAAAAAATCAAGAATTT  
 GCTAACGTACCGGCAGACACCATGCTGAGGCACCTGCGGGCCACCGATGCCATGAAGA  
 TTCTCCGAGTTCCGGCAGGAGGCCAGCATGCTGCACGCGCTGCAGCACCCCTGCATCGTG  
 GCGCTCATCGGCATCAGCATCCACCCGCTCTGTTCCGCCCTGGAGCTCGCGCCGCTCAGC  
 AGCCTCAACACCGTGTGTCCGAGAACGCCAGAGATTCTTCTTTATACCCCTGGGACAC  
 ATGCTCACCCAAAAAATAGCCTACCAGATCGCCTCGGGCCTGGCCTACCTGCACAAGAAA  
 AACATCATCTTGTGACCTGAAGTCGGACAACATTCTGGTGTGGTCCCTTGACGTCAAG  
 GAGCACATCAACATCAAGCTATCTGACTACGGGATTTGAGGCAGTCATTCATGAGGGC  
 GCCCTAGGCGTGGAGGGCACTCCTGGCTACCAGGCCCCAGAGATCAGGCCTCGCATTGTA  
 TATGATGAGAAGGTAGATATGTTCTCCTATGGAATGGTGTCTACGAGTTGCTGTCAGGA  
 CAGCGCCCTGACTGGGCCACCACCAGTCCAGATTGCCAAGAAGCTGTCCAAGGGCATT  
 CGCCCGGTTCTGGGGCAGCCGGAGGAAGTGCAGTTCGGCGACTGCAGGGCCTCATGATG  
 GAGTGTGGGACACTAAGCCAGAGAAGCGACCGCTGGCCCTGTGGTGGTGGAGCCAGATG  
 AAGGACCCGACTTTTGGCACCTTCATGTATGAAGTGTGCTGTGGGAAGCAGACAGCCTTC  
 TTCTCATCCAGGGCCAGGAGTACACCGTGGTGTGGGATGAAAAAGAGGAGTCCAGG

AACTACACGGTGGTGAACACAGAGAAGGGCCTCATGGAGGTGCAGAGGATGTGCTGCCCT  
 GGGATGAAGGTGAGCTGCCAGCTCCAGGTCCAGAGATCCCTGTGGACAGCCACCGAGGAC  
 CAGAAAATCTACATCTACACCCTCAAGGCATGTGCCCTTAAACACACCCCAACAGGCC  
 TTGGATACTCCAGCTGTCGTACCTGCTTCTGGCCGTGCCTGTTATTAAGAATTCC  
 TACCTGGTCTTAGCGGGCCTCGCCGATGGGCTTGTGGCTGTGTTCCCGTGGTGGGGG  
 ACCCCAAAGGACAGCTGCTCTACCTGTGCTCACACACAGCCAACAGTCCAAGTTCAGC  
 ATCGCGGATGAAGACGCACGGCAGAACCCCTACCAAGTGAAGGCCATGGAGGTGGTCAAC  
 AGCGGCTCTGAGTCTGGTACAGCAATGGGCCGGGCTCCTTGTATCGACTGTGCCTCC  
 CTGGAGATCTGCAGGCGGCTGGAGCCCTACATGGCCCTCCATGGTTACGTGAGTGTG  
 TGCAGCTCTGAGGGCAGAGGGGAGGAGTCTGCTGGTGCCTGGATGACAAGGCCAACTCC  
 TTGGTGTGTACCACTCCACCACCTACCAGCTGTGTGCCCGTACTTCTGCGGGTCCCC  
 AGCCCCCTCAGGGACATGTTTCCCGTGGGCCCTTGGACACGGAACCCCGGAGCCAGC  
 CACACGGCCAACCCAAAGGTGCCTGAGGGGACTCCATCGCGGACGTGAGCATCATGTAC  
 AGTGAGGAGCTGGGCACGCAGATCCTGATCCACCAGGAATCACTACTGACTACTGCTCC  
 ATGTCTCTACTCTCATCCCCACCCCGCAGGCTGCCAGTCCCTCAAGCCTCCCC  
 AGTCCCCAGCAAGTCTTCCAGTGTGCCTTCTCCACCGACTGCGAGGACTCAGACATG  
 CTACATACGCCCCGTGCTGCCTCCGACAGTCTGAGCATGACCTGACCCCATGGACGGG  
 GAGACCTTCCAGCCAGCACCTGCAGGCCGTGAAGATCCTCGCCGTGAGAGCTCATTGG  
 GTCCCCAGGCGCGGTGGAGATGTTATCGTCATTGGCCTGGAGAAGGATTCTGGCGCCAG  
 CGGGGCGGAGTCAATTGCCGTCTTAAAGCCGAGAGCTGACTCCGCATGGGGTGTGGTG  
 GATGCTGCCGTGGTGGCAAAGGACACTGTTGTGTGCACCTTTGAAATGAAAACACAGAG  
 TGGTGCCTGGCCGTCTGGAGGGGCTGGGGCCAGGAGTTCGACATTTCTACCACTCC  
 TACGAGAGCTGGGCGGCTGGAGGCTTGCACCTGCAAGAGAAGGACGCTACCGGAAAT  
 GACTGTACACATCAGAGCTGGCTGGCCCGGGGCTGCAGCCTGACCCCTCTGCCATCGGC  
 CTCTAGTTCTCCAAGGACCTAGAAGACAGATGGAGTCTCCCTGAACTCCTTGCTGCTA  
 AGAAGTGTGAGAAGTACTCGCCTGGCGGTGGCTCCAGGGTCTCTGGTTCTCTGGAGC  
 AGAGTTCTCTGAATACCCCATCCCCAACTGCTGATTTTACAGCCCAGGGAAGACAGTG  
 GTATCAGGCTGGGAGCGGCTCCTCTGGCCTCCCCATCAGTTTGCAGGAGCAGGGGTGC  
 AGGATCCTGTTCTGAGCTGGTCAAACAAGCAGGGCCGGGCTTCTGCCATCCCCAGG  
 TCTCAGATGGAATTACACTAGAGGCCCTCCGCTGGGAAGCACTTGAGGTAGGGCAGGAGG  
 GGGGCTGTGACCCCTGCCCTTCCCGCCAGAGACCTCAGGCTCTCAGCACATTCACAG  
 GCTCCTGAGTCCCGAGGCTGGCCAGCTTGGCAAGCCAAGATCAGATGTCTCTGTGT  
 TCGGGAAGGTCTCCGTGTGGGAAAGCCCTTGGGGATCCCGGGTGAAGAGTGTGCCCCA  
 TCCAGAGAATGAATGAGTTCCTTTAAGTGCCACCGCCAGCAAGCCAGAGGCACACAGTC  
 CGAGTGCACCCGCTTAGCCTTACATTCCTCTCCACCGACAAAAGGAAGGGGAACTCAA  
 TCAGCAGGACTTCAGAAAGGGCCTTGTGTTATAGCTTGTCAAGTAAATTTGGACGCAG  
 CTGGAGCACAGGCCCTGTTGTTGCACATAATAATCTTGTGTTATCACTTAAAAAATTC  
 AGTAATATCTCAGCAGTCAAGCTTCTGGTTGTGAAATCACATTGTATGGGATTTATACCA  
 AATTATGATTTGCTAAACATTCAGTGCACACGTGTACAGCGGAGTACGAAAAGGAACGT  
 TGTCACAGGGGATTTATGGATACAACAGCAAACATTTTATAAACTATGCACATGCATTA  
 CACACATGCACACACATATGCACACACATGTGCAACATAGCCACTTTTTTGTCAAGAGT  
 TACCCCTTGGGGCTCCTTAAACCAGAAATGGGAGTTTGAAGAGAGATCATACTCCAGCTG  
 AAGTTTGTGACCCTTTCTAAAATTAAGATCAAATTTAGTATTTGCTGGATATGCA  
 GGGAGATGAGACTCTTTAATCTCAAATAAACAGATTCTTCAAGAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_024652  
**Insert Size:** 7600 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_024652.3</a></u> , <u><a href="#">NP_078928.3</a></u>
<b>RefSeq Size:</b>	7647 bp
<b>RefSeq ORF:</b>	6048 bp
<b>Locus ID:</b>	79705
<b>UniProt ID:</b>	<u><a href="#">Q38SD2</a></u>
<b>Cytogenetics:</b>	15q26.3
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Gene Summary:</b>	This gene encodes a multi-domain protein that is a leucine-rich repeat kinase and a GDP/GTP binding protein. The encoded protein is thought to play a role in the regulation of bone mass. Mice lacking a similar gene showed severe osteopetrosis, increased bone mineralization and decreased bone resorption. [provided by RefSeq, Jan 2017]