OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RR217724

Lrrk1 (NM_001191624) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lrrk1 (NM_001191624) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lrrk1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR217724 representing NM_001191624 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCTGCCGTGTCACAGCGACCACCCAGTATGTACTGGTGTGTGGGGACAGAAGGATCAGTTGTGTGTC CAGGGCCTGCCATGGAGACCCATAATGGTGCCGAAGACATGGGCAGCAAACTGTCTTTACCAGGTGGCAA CTCCCCAGTGCAGAGCCCCAACATGGAAGAAATCCACACAGCATACAAGCAGAGAAACCTCTCCCGAGCC CGGGACCTGCTCAGGGAAGTTTGTGAAGAGAGCGAATCCCCACAGGAAAAGGGCCAGTTGCTGAGCATCT CAGCAGCCCACGGGGATCTAGAGACCGTTCGGTTCCTGCTCACTGAGAAGCGCGTGGAGCTGCCGATGGA GCCCACCGATGACAACCCAGCTGTGGTGGCAGCGCATTTTGGACATGCTGAAGTAGTACACGAATTGCTG GAGTCCTTATCAGGTCCCTGTGCCTCGCAGCGGCTGCTGAACTGGATGCTGGCCCTGGCTTGCCAGCGAG GGCACCTGGAGGTTGTGAAGCTGCTGGTCCTGACGCACGGGGCTGACCCGGAGAACTACGCCGTCAGGAA GAATGAGTTCCCGGTCATTGTGAGGTTGCCCCTCTACGCGGCCATCAAGGCAGGGAATGAAGACATTGCC ATATTCCTGCTTCGGCACGGGGCCTATTTCTGCTCCTACATCCTATTGGATAGCCCTGACCCAAGCAAAC ATCTGCTCAGGAAGTATTTCATCGAGGCCAGCGCCCTGCCCAGCAGCTGTCCCGGGAAAACCGCACTTTG TGTGAAATGGTCCCATCTTAAGTTGCCCTGGGTGGACCTCGACTGGCTCTTAGACATCTCCTGTCAGATC ACAGAGCTTGACCTCTCTGCCAACTGCCTGTCTTCTCTCCCCTCCATCATTCCTTGGGGACTGATCAATC TGAAGAAGCTGAACCTCTCAAACAACCACCTGGGGGAGCTGCCCTGTGTGCAATCATCGGACGAAATCAT CTGCTCCAGGTTAGTTGAAATCGACATCTCCAGTAACAAACTGTCCCACCTCCCGCCTGGATTCTTGCAC CTCTCAAAACTTGAAAGGCTGACTGCTTCCAAAAACTATCTGGAGCGGTTGTTTGAAGAAGAAAATGCCA CAAACTGGATCGGCCTGCGGAAGCTGGAGGAACTCGACCTAGCTGACAACAGACTGACGGAGCTCCCTGT CCAATTTATGCACTCCTTCAAGTCTCTCACCAATCTGAATGTCTCCAGGAACAGCCTCAAGAGCTTTCCA GACCCCTGGTCCTGCCCTCTGAAATGTTGTAAAGCCTCCAAAAATGCTCTGGAATCGCTGCCAGACAAAA TGGCCGTCTTCTGGAAAAACCACCTCAGGGACGTGGATTTCTCCGAGAACTCTCTGAAAGCGGTGCCCCT GGGGGTTTTCCAACTTGATGCCCTCATGTTCTTGAGGTTACAGGGAAACCTGCTGTTGTCACTGCCACAT CATGAGAAGTGGACCTGCAGACAACTCAAGACCCTGGACCTCTCCAGAAACCAACTTGGCAAAAATGAAG ATGGGCTTAAAACAAAGCGGATCTCCCTTTTTACCACCAGAGGGCGCCAGCGTTCTGGAACTGAGACAGC GTCCGTGCTAGAATTCCCAGCTTTTCTAAGCGAGTCTTTGGAGGTCCTTTGTCTGAATGACAACCATCTT

View online »

GATGCAGTTCCTCCGTCAGTCTGCCTGCTGAAGAACCTCTCAGAGCTCTACTTGGGCAATAACCCTGGTC
TCCGAGAGCTCCCTCCGGAGCTAGGCCAGCTGGGAAACCTCTGGCAACTGGACATTGAAGATCTGAACAT
TGGCAACGTGCCTGCAGAGGTCAGGAAAGAAGGCCCAAAAGCAACGCTGTCTTTCCTGCGTGCTCAGCTG
CGCAAAGCAGAGAAGTGTAAACTGATGAAGATGATCCTCGTGGGCCCCCCACGCCAGGGCAAGTCCACAC
TCCTGGAGATCTTACAGACAGGGAAGGCCCCGCAGCCAGCACACAGCGAAGCCACTGTCAGGACCACCAA
GTGGGAGCTCCAGAGACCAGCAGGCTCCAAAGCCAAGGTTGAGTCTGTGGAGTTCAACGTCTGGGACATC
GGGGGCCCTGCCAGCATGGCCACAGTCAATCAGTGCTTCTTCACAGATAAGGCCCTATATGTGGTGGTCT
GGAACCTGGCCCTGGGGGAAGAAGCTGTGGCCAACCTCCAGTTCTGGCTTCTCAACATTGAGGCCAAGGC
CCCAAACGCCGTTGTGCTGGTGGTTGGGACACATCTGGACCTTATCGAAGCTAAATTCCGAGTAGAGAGG
ATCGCAACACTGCGTGCCTACGTGCTGGCCCTCTGCCGCTCACCATCGGGGTCCAGAGCTACAGGATTCC
CAGACATCACTTTCAAACACTTGCACGAGATCTCCTGCAAGAATCTGGAAGGGCAGGAGGGGCTGAGGCA
ACTGATCTTCCATGTCACGTGCAACATGAAGGACGTGGGCAGCACTATCGGCTGTCAAAAACTCGCTGGC
AGGCTGATCCCCAGGAGCTACATAAGCCTACAGGAGGCTGTGCTGGCTGAACAACAGCGCCGCAGCCTGG
AAGATCAAGTACAGTACCTGACGGACAGGCAGCTGGAGCAGCTGGTGGAGCAGACGCCTGGCAATGACAT
CAAAGACTATGAGGACCTGCAGTCTGCCATCAGCTTCCTCATAGAAACCGGAACCCTGCTGCACTTCCCA
GACACGAGCCATGGCCTAAGGAATCTCTACTTCCTGGATCCCATCTGGCTCTCTGAATGCCTACAGAGGA
TCTTTAATATCAAGGGCTCGCGGTCGGTGGCGAAGAATGGGGTGATCCGAGCAGAGGACCTCAGGATGCT
GCTGGTGGGGACAGGCTTCACGCAGCAGACGGAGGAGCAATACTTCCAGTTCCTTGCCAAGTTCGAGATT
GCCCTTCCGGTTGCCAATGACAGTTACCTCCTACCACACCTCCTCCCATCCAAACCTGGGCTGGACACCC
ACAGCATGCGGCACCCAATGGCTAACACCATCCAGCGGGTGTTTAAGATGAGCTTCGTGCCTGTTGGCTT
CTGGCAAAGGTTCATAGCACGGATGCTGATCAGCTTGGCTGAGATGGACCTGCAGCTTTTTGAAAACAAG
AAGAATACGAAAAGCAGGAACCGGAAAGTCACCATTTACAGCTTTACAGGGAACCAGAGAAACCGCTGCA
GCACATTCAGAGTCCGAAGGAATCAGACCATCTACTGGCAGGAAGGGCTGCTGGTCACTTTCGATGGGGG
CTACCTCAGTGTGGAATCCTCAGACGTGAACTGGAAAAAGAAAAAAAGCGGAGGGATTAAAATCGTCTGC
CAGTCAGAAATGAGGGACTTCTCAGCAATGGCTTTTATCACAGACCACGTCAACTCCCTGATCGACCAGT
GGTTCCCCGCCCTGACAGCCACAGAAAGTGACGGGACCCCACTTATGGAGCAGTATGTGCCCTGCCCCGT
CTGTGAAGCATCCTGGGCCCAGCATGCAGATCCAAACGAGAGGTCGGAGAGCGTGCAGTACTTCGATATG
GAAGATTGTGTGCTCACAGCCATTGAAGGGAACTTCATCTCCTGCCCCAGACACCCAGACCTCCCAGTGC
CACTTCAGGAGCTTGTACCAGAGCTGTTTATGACTGACTTCCCAGCCAGGCTTTTCCTGGAGAACAGCAA
GCTGGAGCACACAGAGGGTGAGAACAGCATCCTGGGCCAAGGTGGCAGTGGCACAGTCATCTACCAGGCC
CAGTACCAGGGCCAGCCTGTGGCTGTGAAGAGATTCCACATCAAGAAGTTCAAGAATTCTGCTAATGCCC
CGGCAGACACCATGCTGAGGCACCTGAGAGCCATGGATGCCATGAAGAACTTCTCGGATTTCCGTCAGGA
GGCCAGCATGCTGCATGCCTTGCAGCACCCCTGCATTGTGTCACTCATCGGCATCAGCATCCACCCCCTC
TGCTTCGCCCTGGAGCTCGCCCCGCTGGGCAGCCTCAACACTGTGCTGTCTGAGAATGCCAAAGATTCTT
CCTTTATGCCCCTGGGACACATGCTCACCCAAAAAATAGCCTACCAGATTGCCTCGGGCCTGGCCTACCT
GCACAAGAAGAACATCATCTTCTGTGACCTCAAGTCAGACAACATCCTGGTGTGGTCACTGAGCGTCAAG
GAGCTCATCAACATCAAACTGTCAGACTACGGCATCTCGAGGCAGTCCTTTCACGAGGGGGCCCTGGGTG
TGGAGGGCACCCCAGGCTACCAGGCTCCAGAGATCAGGCCTCGCATTGTGTATGACGAGAAGGTAGACAT
GTTCTCCTATGGCATGGTGCTGTATGAGCTGCTCTCAGGACAGCGTCCTGCGCTGGGCCACCACCAACTT
CAGATTGTCAAGAAGTTGTCCAAGGGCATCCGCCCAGTGCTGGGGCAGCCAGAGGAAGTGCAATTCTATC
GACTGCAGGCGCTCATGATGGAGTGCTGGGACACGAAGCCGGAGAAGCGTCCCCTGGCCCTGTCTGTGGT
GAGCCAGATGAAAGACCCAACCTTCGCCACCTTCATGTACATGCTGCCCTGTGGGAAGCAGTCGTCCTTC
TTCTCATCCCAGAGCCAGGAGTACACTGTGGTGTTCTGGGATGGGAAGGAGGAGTCAAGGAATTACACGG
TGGTCAACACCGAGAAGGGCCTTCTGGAAGTACAGAGGATGACCTGTCCTGGGATGAAGCTGAGCTGTCA
GCTCAAGGTCCAGAGCTCAGTGTGGCTAGCCACCGAGGACCAGAAAATCTATATCTACAGCCTTAAGGGT
ATGTGCCCATTAAGCATGCCCCAGCAGGCCCTGGACACGCCGGCTGTTGTCACCTGTTTCTTGGCAGTAC
CTGTTATTAAAAAGAACTCCTTTCTGGTGCTGGCTGGCCTGGCTGATGGACTCGTGGCTGTGTTTTCTAT
GGCACGGGGCACCCCAAAAGAAAGCTGCTCCTACCTGTGCTCGCACACAGCCAACAGGTCCAAGTTCTGC
ATCCCAGACGAAGACTCACGGCAGAACCCCTACCCAGTGAGGGCAATGGAAGTGGTCAACAGCGGGTCTG
AGGTCTGGTACAGCAATGGGCCAGGCCTCCTCATCATCGACTGTGCCATCCTGGACATCAGCAGGCGGCT
GGAGCCCTATGCAGCCCCATCTGTGGTCACATCACTTGTGTGCAGCTCAGACTGCAGAGGAGAGGAGACA
GTCTGGTGCCTGGACGACAAGGGCAATTCCTTAGTGATGTACCATTCAGCCACCTACCAGCTGTGTGCCC

GGTACTTCTGCGGGGACCCCAGTCCTCTCAGGGACACGTTTTCTGTACAGCCCTCAGTCCCAGAAAGCCC
AATCCGTCACATAACCACCTCAAAGGAGCCTGAGGAAGAGTGCATCGCCGACGTGAGCATCATGTACAGC
GAGGAGCTGGGCATGCAGATCCTCACCCACCAGGACTCGCTCACTGACTACTGCTCCGTATCCTCGTACT
CATCCACACCCCACCCAGACCCCAAGTCCCCCACCAGCCTGCCCAGCTCCCTCACCAGCTATTCCAGTGT
GCCTTTCTCCGCCAATTATGAAGACCCAGACAGGCTGCAGGAGCCCAGCGTCACCCCTGACAGAACTGAG
CATGATCTGAGCCCCATGGATGGGGAGACGTTCAGCCAACACCTGCAGGCTGTGAAGGTGCTTGCTGTCC
AAGACCTCATTTGGGTCCCTAGACATGGTGGAGATATCATTGTCATCGGCCTGGAGAAGGATTCGGGTGC
CCAGCGGGGCAGGGTCATCGCTGTTTTAAAAGCCAGAGAGCTCAATCCGCATGGGGTCCTGGTGGATGCG
GCAGTGGTGGCAAAGGACACCGTAGTGTGCGGCTTTGCAAACGAAAACACAGAGTGGTGCCTGGCTGTCT
GGAGGGGCTGGGGCGCCAGGGAGTTTGACATCTTCTACCAGTCCTATGAGGAGCTGGGCCGGCTGGAGGC
GTGTCCTCGCAAGAGAAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

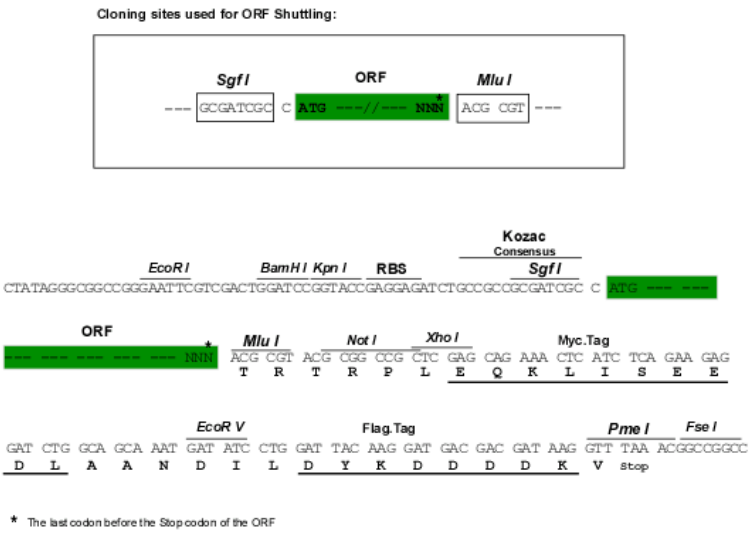
>RR217724 representing NM_001191624
Red=Cloning site Green=Tags(s)

MAAVSQRPPSMYWCVGTEGSVVCPGPAMETHNGAEDMGSKLSLPGGNSPVQSPNMEEIHTAYKQRNLSRA
RDLLREVCEESESPQEKGQLLSISAAHGDLETVRFLLTEKRVELPMEPTDDNPAVVAAHFGHAEVVHELL
ESLSGPCASQRLLNWMLALACQRGHLEVVKLLVLTHGADPENYAVRKNEFPVIVRLPLYAAIKAGNEDIA
IFLLRHGAYFCSYILLDSPDPSKHLLRKYFIEASALPSSCPGKTALCVKWSHLKLPWVDLDWLLDISCQI
TELDLSANCLSSLPSIIPWGLINLKKLNLSNNHLGELPCVQSSDEIICSRLVEIDISSNKLSHLPPGFLH
LSKLERLTASKNYLERLFEEENATNWIGLRKLEELDLADNRLTELPVQFMHSFKSLTNLNVSRNSLKSFP
DPWSCPLKCCKASKNALESLPDKMAVFWKNHLRDVDFSENSLKAVPLGVFQLDALMFLRLQGNLLLSLPH
HEKWTCRQLKTLDLSRNQLGKNEDGLKTKRISLFTTRGRQRSGTETASVLEFPAFLSESLEVLCLNDNHL
DAVPPSVCLLKNLSELYLGNNPGLRELPPELGQLGNLWQLDIEDLNIGNVPAEVRKEGPKATLSFLRAQL
RKAEKCKLMKMILVGPPRQGKSTLLEILQTGKAPQPAHSEATVRTTKWELQRPAGSKAKVESVEFNVWDI
GGPASMATVNQCFFTDKALYVVVWNLALGEEAVANLQFWLLNIEAKAPNAVVLVVGTHLDLIEAKFRVER
IATLRAYVLALCRSPSGSRATGFPDITFKHLHEISCKNLEGQEGLRQLIFHVTCNMKDVGSTIGCQKLAG
RLIPRSYISLQEAVLAEQQRRSLEDQVQYLTDRQLEQLVEQTPGNDIKDYEDLQSAISFLIETGTLLHFP
DTSHGLRNLYFLDPIWLSECLQRIFNIKGSRSVAKNGVIRAEDLRMLLVGTGFTQQTEEQYFQFLAKFEI
ALPVANDSYLLPHLLPSKPGLDTHSMRHPMANTIQRVFKMSFVPVGFWQRFIARMLISLAEMDLQLFENK
KNTKSRNRKVTIYSFTGNQRNRCSTFRVRRNQTIYWQEGLLVTFDGGYLSVESSDVNWKKKKSGGIKIVC
QSEMRDFSAMAFITDHVNSLIDQWFPALTATESDGTPLMEQYVPCPVCEASWAQHADPNERSESVQYFDM
EDCVLTAIEGNFISCPRHPDLPVPLQELVPELFMTDFPARLFLENSKLEHTEGENSILGQGGSGTVIYQA
QYQGQPVAVKRFHIKKFKNSANAPADTMLRHLRAMDAMKNFSDFRQEASMLHALQHPCIVSLIGISIHPL
CFALELAPLGSLNTVLSENAKDSSFMPLGHMLTQKIAYQIASGLAYLHKKNIIFCDLKSDNILVWSLSVK
ELINIKLSDYGISRQSFHEGALGVEGTPGYQAPEIRPRIVYDEKVDMFSYGMVLYELLSGQRPALGHHQL
QIVKKLSKGIRPVLGQPEEVQFYRLQALMMECWDTKPEKRPLALSVVSQMKDPTFATFMYMLPCGKQSSF
FSSQSQEYTVVFWDGKEESRNYTVVNTEKGLLEVQRMTCPGMKLSCQLKVQSSVWLATEDQKIYIYSLKG
MCPLSMPQQALDTPAVVTCFLAVPVIKKNSFLVLAGLADGLVAVFSMARGTPKESCSYLCSHTANRSKFC
IPDEDSRQNPYPVRAMEVVNSGSEVWYSNGPGLLIIDCAILDISRRLEPYAAPSVVTSLVCSSDCRGEET
VWCLDDKGNSLVMYHSATYQLCARYFCGDPSPLRDTFSVQPSVPESPIRHITTSKEPEEECIADVSIMYS
EELGMQILTHQDSLTDYCSVSSYSSTPHPDPKSPTSLPSSLTSYSSVPFSANYEDPDRLQEPSVTPDRTE
HDLSPMDGETFSQHLQAVKVLAVQDLIWVPRHGGDIIVIGLEKDSGAQRGRVIAVLKARELNPHGVLVDA
AVVAKDTVVCGFANENTEWCLAVWRGWGAREFDIFYQSYEELGRLEACPRKRR

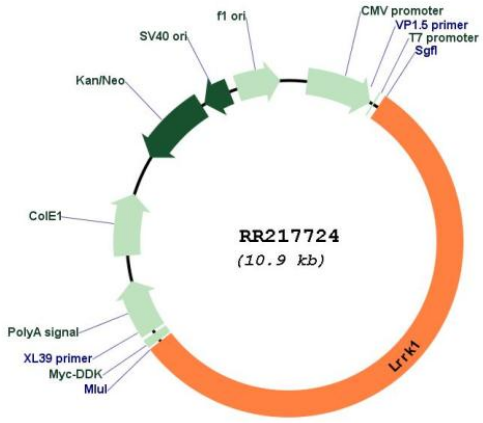
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001191624
ORF Size:	6039 bp
OTI Disclaimer:	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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001191624.1, NP_001178553.1
RefSeq Size:	6445 bp
RefSeq ORF:	6042 bp
Locus ID:	308703
Cytogenetics:	1q22
MW:	225.4 kDa