



LRRK2

Expressed:

GFP-LRRK2 A2016T G2019S

Plasmid:

pCMV5D GFP LRRK2 A2016T G2019S

Parent Plasmid:

pCMV5D GFP

DU Number:

DU48219

Genbank:

NM_198578.3

Species:

Human

Synonyms:

AURA17, DARDARIN, PARK8, RIPK7, ROCO2

Sequence of Insert:

**GGATCCATGGCTAGTGGCAGCTGTCAGGGGTGCGAAGAGGACGAGGAACTCTGAAGAAGTTG
ATAGTCAGGCTGAACAATGTCCAGGAAGGAAAACAGATAGAAACGCTGGTCCAAATCCTGGAG
GATCTGCTGGTGTTCACGTACTCCGAGCACGCCTCCAAGTTATTTCAAGGCAAAAATATCCATGT
GCCTCTGTTGATCGTCTTGGACTCCTATATGAGAGTCGCGAGTGTGCAGCAGGTGGGTTGGTCA
CTTCTGTGCAAATTAATAGAAGTCTGTCCAGGTACAATGCAAAGCTTAATGGGACCCCAGGATG
TTGGAAATGATTGGGAAGTCCTTGGTGTTCACCAATTGATTCTTAAAATGCTAACAGTTCATAAT
GCCAGTGTAACCTTGTCAGTGATTGGACTGAAGACCTTAGATCTCCTCCTAACTTCAGGTAATAAT
CACCTTGCTGATATTGGATGAAGAAAGTGATATTTTCATGTTAATTTTTGATGCCATGCACTCATT
TCCAGCCAATGATGAAGTCCAGAACTTGGATGCAAAGCTTTACATGTGCTGTTTGAGAGAGTCT
CAGAGGAGCAACTGACTGAATTTGTTGAGAACAAGATTATATGATATTGTTAAGTGCGTTAACA
AATTTTAAAGATGAAGAGGAAATTGTGCTTCATGTGCTGCATTGTTTACATTCCCTAGCGATTCT
TGCAATAATGTGGAAGTCCTCATGAGTGGCAATGTCAGGTGTTATAATATTGTGGTGGAAAGCTAT
GAAAGCATTCCCTATGAGTGAAAGAATTCAAGAAGTGAGTTGCTGTTTGCTCCATAGGCTTACAT
TAGGTAATTTTTCAATATCCTGGTATTAACGAAGTCCATGAGTTTGTGGTGAAGCTGTGCAG
CAGTACCCAGAGAATGCAGCATTGCAGATCTCAGCGCTCAGCTGTTTGGCCCTCCTCACTGAGA
CTATTTTCTTAAATCAAGATTTAGAGGAAAAGAATGAGAATCAAGAGAATGATGATGAGGGGGA
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CACGTGCAGGAGGCCGCATGCTGGGCACTAAATAATCTCCTTATGTACCAAACAGTTTACATG
AGAAGATTGGAGATGAAGATGGCCATTTCCAGCTCATAGGGAAGTGATGCTCTCCATGCTGAT
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ATGTTAATTTAGAAAATACTGTTATCAAAGGAATACACCTGAATGTTTTGGAGTTAATGCAG
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AAGCAACACTTCCCTGGATATAATGGCAGCAGTGGTCCCCAAAATACTAACAGTTATGAAACGT
CATGAGACATCATTACCAGTGCAGCTGGAGGCGCTTCGAGCTATTTTACATTTTATAGTGCCTGG**

CATGCCAGAAGAATCCAGGGAGGATACAGAATTTTCATCATAAGCTAAATATGGTTAAAAAACAG
TGTTTCAAGAATGATATTCACAACTGGTCTTAGCAGCTTTGAACAGGTTTCATTGGAAATCCTGG
GATTCAGAAATGTGGATTAAGTAATTTCTTCTATTGTACATTTTCTGATGCATTAGAGATGTT
ATCCCTGGAAGGTGCTATGGATTCAGTGCTTCACACTGCAGATGTATCCAGATGACCAAGAA
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TTGACGATAAGCATTGGGAAAGGTGACAGCCAGATCATCAGCTTGCTCTTAAGGAGGCTGGCCC
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CCCATTGTGAGAACTCTGAAATTATCATCCGACTATATGAAATGCCTTATTTCCAATGGGATTTT
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CAGCCTCACTAGAACCCTACAGCACAGGATTGCACTCCACGTAGCTGATGGTTTGAGATACCTC
CACTCAGCCATGATTATATACCGAGACCTGAAACCCACAATGTGCTGCTTTTCACACTGTATCC
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ATAACCAACAGGCTGATGTTTATTCATTTGGTTTACTACTCTATGACATTTTGACAACCTGGAGGTA
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CATCACAACAGCAGGAATGCAAGCATTGGCTGGGCTGTGGGCACACCGACAGAGGACAGCTC
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CTCTCCTGGTCATCAATACCGAAGATGGGAAAAGAGACATACCCTAGAAAAGATGACTGATTC
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TGAAGATACTAAATATAGGAAATGTCAGTACTCCATTGATGTGTTTGAGTGAATCCACAAATTCA
ACGGAAAGAAATGTAATGTGGGGAGGATGTGGCACAAAGATTTTCTCCTTTTCTAATGATTCAC
CATTCAGAACTCATTGAGACAAGAACAAGCCAAGTGTCTTATGCAGCTTTCAGTGATTCCA
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GTGTGGGATAAGAAAACCTGAAAACCTCTGTGGACTAATAGACTGCGTGCACTTTTTAAGGGAGG
TAATGGTAAAAGAAAACAAGGAATCAAAACACAAAATGTCTTATTCTGGGAGAGTGAAAACCT
CTGCCTTCAGAAGAACTGCTCTTTGGATAGGAACTGGAGGAGGCCATTTTTACTCCTGGATC
TTTCAACTCGTCGACTTATACGTGTAATTTACAACCTTTTGTAAATTCGGTCAGAGTCATGATGACAG
CACAGCTAGGAAGCCTTAAAATGTCATGCTGGTATTGGGCTACAACCGGAAAATACTGAAGG
TACACAAAAGCAGAAAGAGATACAATCTTGCTTGACCGTTTGGGACATCAATCTTCCACATGAA
GTGCAAAATTTAGAAAACACATTGAAGTGAGAAAAGAATTAGCTGAAAAAATGAGACGAACAT
CTGTTGAGTAAGAGAGAAATAGGCGGCCGC

Amino Acid Sequence:

MVSKGEELFTGVVPIVELDGDVNGHKFSVSGEGEGDATYGKLTCLKFICT
TGKLPVPWPTLVTTLTYGVCFSRYPDHMKQHDFFKSAMPEGYVQERTIF
FKDDGNYKTRAEVKFECDTLVNRIELKGIDFKEDGNILGHKLEYNYN SHN
VYIMADKQKNGIKVNFKIRHNIEDGSVQLADHYQQNTPIGDGPVLLPDNH
YLSTQSALS KDPNEKRDMVLEFVTAAGITLGMDELYKSGLGSMASGSC
QGCEEDEETLKKLIVRLNNVQEGKQIETLVQILEDLLVFTYSEHASKLFQ
GKNIHVPLLIVLDSYMRVASVQQVGSLLCKLIEVCPGTMQSLMGPQDVG
NDWEVLGVHQLILKMLTVHNASVNLVIGLKTLDLLTSGKITLLILDEE
SDIFMLIFDAMHSFPANDEVQKLGCKALHVLFERVSEEQLTEFVENKDYM
ILLSALTNFKDEEEIVLHVLHCLHSLAIPCNNVEVLMSGNVRCYNIVVEA
MKAFPMSERIQEVSCLLHRLTLGNFFNILVLNEVHEFVVKAVQQYPENA
ALQISALSCLALLTETIFLNQDLEEKNNQENDDEGEEDKLFWLEACYKA

LTWHRKNKHVQEAACWALNNLLMYQNSLHEKIGDEDGHFPAHREVMLSML
MHSSSKEVFQASANALSTLLEQNVNFRKILLSKGIHLNVLELMQKHIHSP
EVAESGCKMLNHLFEQSNTSLDIMA AVVPKILTVMKRHETSLPVQLEALR
AILHFIVPGMPEESREDTEFHHLNMVKKQCFKNDIHKLVLAALNRFIGN
PGIQKCGLVISSIVHFPDALEMLSLEGAMDSVLHTLQMPDDQEIQCLG
LSLIGYLITKKNVFIGTGHELLAKILVSSLYRFKDVAEIQTkgfQtilail
KLSASFSKLLVHHSFDLVIFHQMSSNIMEQKDQQFLNLCKCKFAKVAMDD
YLKNVMLERACDQNN SIMVECLLLL GADANQAKEGSSLICQVCEKESSPK
LVELLLNSGSREQDVRKALTISIGK GDSQIISLLLRRRLALDVANNSICLG
GFCIGKVEPSWLGPLFPDKTSNLRKQTNIASTLARMVIRYQMKSAVEEGT
ASGSDGNFSEDLVSKFDEWTFIPDSSMDSVFAQSDDL DSEGSEGSFLVKK
KNSISVGEFYRDAVLQRCSPNLQRHSNSLGPFDHEDLLKRKRKILSSD
DSLRSSKLQSHMRHSDSISLASEREYITSLDLSANELRDIDALSQKCCI
SVHLEHLEKLELHQNALTSFPQQLCETLKSLTHLDLHSNKFTSFPSYLLK
MSCIANLDVSRNDIGPSVLDPTVKCPTLKQFNLSYNQLSFVPENLTDVV
EKLEQLILEGNKISGICSPRLKELKILNLSKNHISSLENFLEACPVE
SFSARMNFLAAMPFLPPSMTILKLSQNKFCIPEAILNLPHLRSLDMSSN
DIQYLPGPAHWKSLNRELLEFSHNQISILDSEKAYLWSRVEKLHLSHNK
LKEIPPEIGCLENLTSLDVSYNLELRSFPNEMGKLSKIWDLPLDELHLNF
DFKHIGCKAKDIIRFLQQRLLKAVPYNRMKLMIVGNTGSGKTTLLQQLMK
TKKSDLGMQSATVGIDVKDWPIQIRDKRKRDLVLNVWDFAGREEFYSTHP
HFMTQRALYLAVYDL SKGQAEVDAMKPWLFNIKARASSSPVILVGTHLDV
SDEKQRKACMSKITKELLNKRGFPAIRDYHFVNATEESDALAKLRKTIIN
ESLNFKIRDQLVVGQLIPDCYVELEKIILSERKNVPIEFPVIDRKRLQL
VRENQLQLDENELPHAVHFLNESGVLLHFQDPALQLSDLYFVEPKWLCKI
MAQILTVKVEGCPKHPKGIISRRDVEKFLSKKRKFPKNYMTQYFKLLEKF
QIALPIGEEYLLVPSSLSDRPVIELPHCENSEIIIRLYEMPYFPMGFWS
RLINRLEISPYMLSGRERALRPNRM YWRQGIYLNWSPEAYCLVGSEVLD
NHPEFSLKITVPSRKGCCILLGQVVDHIDSLMEEWFPGLLEIDICGEGET
LLKKWALYSFNDGEEHQKILLDDLMKKAEEGDLLVNPDPRLTIPISQIA
PDLILADLPRNIMLNDELEFEQAPEFLLGDGSFGSVYRAAYEGEEVAVK
IFNKHTSLRLLRQELVVLCHLHHP SLISLLAAGIRPRMLVMELASKGSLD
RLLQQDKASLTRLQHRIALHVADGLRYLHSAMIIYRDLKPHNVLLFTLY
PNAIIAKITDYIAQYCCRMGIKTSEGTPGFRAPEVARGNVIYNQQADV
YSFGLLLYDILTTGGRIVEGLKFPNEFDELEIQGKLPDPVKEYGCAPWPM
VEKLIKQCLKENPQERPTSAQVFDILNSAELVCLTRRILLPKNVIVECMV
ATHHNSRNASIWLGC GHTDRGQLSFLDLNTEGYTSEEVADSRILCLALVH
LPVEKESWIVSGTQSGTLLVINTEDGKKRHTLEKMTDSVTCLYCNSFSKQ
SKQKNFLLVGTADGKLAIFEDKTVKLGGAAPL KILNIGNVSTPLMCLSES
TNSTERNVMWGGCGTKIFSNDFTIQKLIETRTSQLFSYAAFSDSNIIT
VVVD TALYIAKQNSPVVEVWDK KTEKLCGLIDCVHFLREVMVKENKESKH
KMSYSGRVKTLCLQKNTALWIGTGGGHILLDLSTRRLIRVIYNFCNSVR
VMMTAQLGSLKNVMLVLGYNRKNTEGTQKQKEIQSCLTVWDINLPHEVQN
LEKHIEVRKELAEKMRRTSVE*

Antibiotic:
Amp

Comments:

A2016T & G2019S. Also contains two silent nucleotide changes as compared to the reference sequence; C>A 4872 bp and A>G 4911 bp. All LRRK2 plasmids MUST be grown at 30°C or less to prevent recombination Contains SNP S1647T

Price per aliquot:
£110.00

