LRRK2

Expressed:
FLAG-LRRK2 S1444A

Plasmid:
pCMV5 FLAG LRRK2 S1444A

Parent Plasmid:
pCMV5 FLAG1

DU Number:
DU48059

Genbank:
NM_198578.3

Species:
Human

Synonyms:
AURA17, **DARDARIN**, **PARK8**, **RIPK7**, **ROCO2**

Sequence of Insert:
ATGGACTACAAGGACGATGACGATAAGGGATCCATGGCTAGTGGCAGCTGTCAGGGGTGCGAA
GAGGACGAGGAAACTCTGAAGAAGTTGATAGTCAGGCTGAACAATGTCCAGGAAGGAAAACAG
ATAGAAACGCTGGTCCAAATCCTGGAGGATCTGCTGGTGTTCACGTACTCCGAGCACGCCTCCA
AGTTATTTCAAGGCAAAAATATCCATGTGCCTCTGTTGATCGTCTTGGACTCCTATATGAGAGTC
GCGAGTGTGCAGCAGGTGGGTTGGTCACTTCTGTGCAAATTAATAGAAGTCTGTCCAGGTACAA
TGCAAAGCTTAATGGGACCCCAGGATGTTGGAAATGATTGGGAAGTCCTTGGTGTTCACCAATT
GATTCTTAAAATGCTAACAGTTCATAATGCCAGTGTAAACTTGTCAGTGATTGGACTGAAGACCT
TAGATCTCCTCCTAACTTCAGGTAAAATCACCTTGCTGATATTGGATGAAGAAAGTGATATTTTCA
TGTTAATTTTTGATGCCATGCACTCATTTCCAGCCAATGATGAAGTCCAGAAACTTGGATGCAAA
GCTTTACATGTGCTGTTTGAGAGAGTCTCAGAGGAGCAACTGACTGAATTTGTTGAGAACAAAG
ATTATATGATATTGTTAAGTGCGTTAACAAATTTTAAAGATGAAGAGGAAATTGTGCTTCATGTGC
TGCATTGTTTACATTCCCTAGCGATTCCTTGCAATAATGTGGAAGTCCTCATGAGTGGCAATGTC
AGGTGTTATAATATTGTGGTGGAAGCTATGAAAGCATTCCCTATGAGTGAAAGAATTCAAGAAGT
GAGTTGCTGTTTGCTCCATAGGCTTACATTAGGTAATTTTTTCAATATCCTGGTATTAAACGAAGT
CCATGAGTTTGTGGTGAAAGCTGTGCAGCAGTACCCAGAGAATGCAGCATTGCAGATCTCAGCG
CTCAGCTGTTTGGCCCTCCTCACTGAGACTATTTTCTTAAATCAAGATTTAGAGGAAAAGAATGA
GAATCAAGAGAATGATGATGAGGGGGAAGAAGATAAATTGTTTTGGCTGGAAGCCTGTTACAAA
GCATTAACGTGGCATAGAAAGAACAAGCACGTGCAGGAGGCCGCATGCTGGGCACTAAATAAT
CTCCTTATGTACCAAAACAGTTTACATGAGAAGATTGGAGATGAAGATGGCCATTTCCCAGCTCA
TAGGGAAGTGATGCTCTCCATGCTGATGCATTCTTCATCAAAGGAAGTTTTCCAGGCATCTGCGA
ATGCATTGTCAACTCTCTTAGAACAAAATGTTAATTTCAGAAAAATACTGTTATCAAAAGGAATA
CACCTGAATGTTTTGGAGTTAATGCAGAAGCATATACATTCTCCTGAAGTGGCTGAAAGTGGCTG
TAAAATGCTAAATCATCTTTTTGAAGGAAGCAACACTTCCCTGGATATAATGGCAGCAGTGGTCC
CCAAAATACTAACAGTTATGAAACGTCATGAGACATCATTACCAGTGCAGCTGGAGGCGCTTCG

School of Life Sciences MSI/WTB Complex University of Dundee Dundee DD1 5EH
telephone: +44 (0) 1382 388 053 email: mrcppureagents@dundee.ac.uk

AGCTATTTTACATTTTATAGTGCCTGGCATGCCAGAAGAATCCAGGGAGGATACAGAATTTCATC
ATAAGCTAAATATGGTTAAAAAACAGTGTTTCAAGAATGATATTCACAAACTGGTCCTAGCAGCT
TTGAACAGGTTCATTGGAAATCCTGGGATTCAGAAATGTGGATTAAAAGTAATTTCTTCTATTGTA
CATTTTCCTGATGCATTAGAGATGTTATCCCTGGAAGGTGCTATGGATTCAGTGCTTCACACACT
GCAGATGTATCCAGATGACCAAGAAATTCAGTGTCTGGGTTTAAGTCTTATAGGATACTTGATTA
CAAAGAAGAATGTGTTCATAGGAACTGGACATCTGCTGGCAAAAATTCTGGTTTCCAGCTTATAC
CGATTTAAGGATGTTGCTGAAATACAGACTAAAGGATTTCAGACAATCTTAGCAATCCTCAAATT
GTCAGCATCTTTTTCTAAGCTGCTGGTGCATCATTCATTTGACTTAGTAATATTCCATCAAATGTC
TTCCAATATCATGGAACAAAAGGATCAACAGTTTCTAAACCTCTGTTGCAAGTGTTTTGCAAAAG
TAGCTATGGATGATTACTTAAAAAATGTGATGCTAGAGAGAGCGTGTGATCAGAATAACAGCAT
CATGGTTGAATGCTTGCTTCTATTGGGAGCAGATGCCAATCAAGCAAAGGAGGGATCTTCTTTAA
TTTGTCAGGTATGTGAGAAAGAGAGCAGTCCCAAATTGGTGGAACTCTTACTGAATAGTGGATCT
CGTGAACAAGATGTACGAAAAGCGTTGACGATAAGCATTGGGAAAGGTGACAGCCAGATCATC
AGCTTGCTCTTAAGGAGGCTGGCCCTGGATGTGGCCAACAATAGCATTTGCCTTGGAGGATTTT
GTATAGGAAAAGTTGAACCTTCTTGGCTTGGTCCTTTATTTCCAGATAAGACTTCTAATTTAAGGA
AACAAACAAATATAGCATCTACACTAGCAAGAATGGTGATCAGATATCAGATGAAAAGTGCTGT
GGAAGAAGGAACAGCCTCAGGCAGCGATGGAAATTTTTCTGAAGATGTGCTGTCTAAATTTGAT
GAATGGACCTTTATTCCTGACTCTTCTATGGACAGTGTGTTTGCTCAAAGTGATGACCTGGATAG
TGAAGGAAGTGAAGGCTCATTTCTTGTGAAAAAGAAATCTAATTCAATTAGTGTAGGAGAATTTT
ACCGAGATGCCGTATTACAGCGTTGCTCACCAAATTTGCAAAGACATTCCAATTCCTTGGGGCC
CATTTTTGATCATGAAGATTTACTGAAGCGAAAAAGAAAAATACTATCTTCAGATGATTCACTCA
GGTCATCAAAACTTCAATCCCATATGAGGCATTCAGACAGCATTTCTTCTCTGGCTTCTGAGAGA
GAATATATTACATCACTAGACCTTTCAGCAAATGAACTAAGAGATATTGATGCCCTAAGCCAGAA
ATGCTGTATAAGTGTTCATTTGGAGCATCTTGAAAAGCTGGAGCTTCACCAGAATGCACTCACGA
GCTTTCCACAACAGCTATGTGAAACTCTGAAGAGTTTGACACATTTGGACTTGCACAGTAATAAA
TTTACATCATTTCCTTCTTATTTGTTGAAAATGAGTTGTATTGCTAATCTTGATGTCTCTCGAAATG
ACATTGGACCCTCAGTGGTTTTAGATCCTACAGTGAAATGTCCAACTCTGAAACAGTTTAACCTG
TCATATAACCAGCTGTCTTTTGTACCTGAGAACCTCACTGATGTGGTAGAGAAACTGGAGCAGCT
CATTTTAGAAGGAAATAAAATATCAGGGATATGCTCCCCCTTGAGACTGAAGGAACTGAAGATTT
TAAACCTTAGTAAGAACCACATTTCATCCCTATCAGAGAACTTTCTTGAGGCTTGTCCTAAAGTG
GAGAGTTTCAGTGCCAGAATGAATTTTCTTGCTGCTATGCCTTTCTTGCCTCCTTCTATGACAATC
CTAAAATTATCTCAGAACAAATTTTCCTGTATTCCAGAAGCAATTTTAAATCTTCCACACTTGCGG
TCTTTAGATATGAGCAGCAATGATATTCAGTACCTACCAGGTCCCGCACACTGGAAATCTTTGAA
CTTAAGGGAACTCTTATTTAGCCATAATCAGATCAGCATCTTGGACTTGAGTGAAAAAGCATATT
TATGGTCTAGAGTAGAGAAACTGCATCTTTCTCACAATAAACTGAAAGAGATTCCTCCTGAGATT
GGCTGTCTTGAAAATCTGACATCTCTGGATGTCAGTTACAACTTGGAACTAAGATCCTTTCCCAA
TGAAATGGGGAAATTAAGCAAAATATGGGATCTTCCTTTGGATGAACTGCATCTTAACTTTGATT
TTAAACATATAGGATGTAAAGCCAAAGACATCATAAGGTTTCTTCAACAGCGATTAAAAAAGGCT
GTGCCTTATAACCGAATGAAACTTATGATTGTGGGAAATACTGGGAGTGGTAAAACCACCTTATT
GCAGCAATTAATGAAAACCAAGAAATCAGATCTTGGAATGCAAAGTGCCACAGTTGGCATAGAT
GTGAAAGACTGGCCTATCCAAATAAGAGACAAAAGAAAGAGAGATCTCGTCCTAAATGTGTGGG
ATTTTGCAGGTCGTGAGGAATTCTATAGTACTCATCCCCATTTTATGACGCAGCGAGCATTGTAC
CTTGCTGTCTATGACCTCAGCAAGGGACAGGCTGAAGTTGATGCCATGAAGCCTTGGCTCTTCA
ATATAAAGGCTCGCGCTTCTGCTTCCCCTGTGATTCTCGTTGGCACACATTTGGATGTTTCTGATG
AGAAGCAACGCAAAGCCTGCATGAGTAAAATCACCAAGGAACTCCTGAATAAGCGAGGGTTCC
CTGCCATACGAGATTACCACTTTGTGAATGCCACCGAGGAATCTGATGCTTTGGCAAAACTTCG
GAAAACCATCATAAACGAGAGCCTTAATTTCAAGATCCGAGATCAGCTTGTTGTTGGACAGCTG
ATTCCAGACTGCTATGTAGAACTTGAAAAAATCATTTTATCGGAGCGTAAAAATGTGCCAATTGA
ATTTCCCGTAATTGACCGGAAACGATTATTACAACTAGTGAGAGAAAATCAGCTGCAGTTAGATG
AAAATGAGCTTCCTCACGCAGTTCACTTTCTAAATGAATCAGGAGTCCTTCTTCATTTTCAAGACC
CAGCACTGCAGTTAAGTGACTTGTACTTTGTGGAACCCAAGTGGCTTTGTAAAATCATGGCACAG
ATTTTGACAGTGAAAGTGGAAGGTTGTCCAAAACACCCTAAGGGAATTATTTCGCGTAGAGATG
TGGAAAAATTTCTTTCAAAGAAAAGGAAATTTCCAAAGAACTACATGACACAGTATTTTAAGCTC
CTAGAAAAATTCCAGATTGCTTTGCCAATAGGAGAAGAATATTTGCTGGTTCCAAGCAGTTTGTC

University of Dundee
School of Life Sciences MSI/WTB Complex University of Dundee Dundee DD1 5EH
telephone: +44 (0) 1382 388 053 email: mrcppureagents@dundee.ac.uk

TGACCACAGGCCTGTGATAGAGCTTCCCCATTGTGAGAACTCTGAAATTATCATCCGACTATATG
AAATGCCTTATTTTCCAATGGGATTTTGGTCAAGATTAATCAATCGATTACTTGAGATTTCACCTT
ACATGCTTTCAGGGAGAGAACGAGCACTTCGCCCAAACAGAATGTATTGGCGACAAGGCATTTA
CTTAAATTGGTCTCCTGAAGCTTATTGTCTGGTAGGATCTGAAGTCTTAGACAATCATCCAGAGA
GTTTCTTAAAAATTACAGTTCCTTCTTGTAGAAAAGGCTGTATTCTTTTGGGCCAAGTTGTGGACC
ACATTGATTCTCTCATGGAAGAATGGTTTCCTGGGTTGCTGGAGATTGATATTTGTGGTGAAGGA
GAAACTCTGTTGAAGAAATGGGCATTATATAGTTTTAATGATGGTGAAGAACATCAAAAAATCTT
ACTTGATGACTTGATGAAGAAAGCAGAGGAAGGAGATCTCTTAGTAAATCCAGATCAACCAAGG
CTCACCATTCCAATATCTCAGATTGCCCCTGACTTGATTTTGGCTGACCTGCCTAGAAATATTATG
TTGAATAATGATGAGTTGGAATTTGAACAAGCTCCAGAGTTTCTCCTAGGTGATGGCAGTTTTGG
ATCAGTTTACCGAGCAGCCTATGAAGGAGAAGAAGTGGCTGTGAAGATTTTTAATAAACATACA
TCACTCAGGCTGTTAAGACAAGAGCTTGTGGTGCTTTGCCACCTCCACCACCCCAGTTTGATATC
TTTGCTGGCAGCTGGGATTCGTCCCCGGATGTTGGTGATGGAGTTAGCCTCCAAGGGTTCCTTG
GATCGCCTGCTTCAGCAGGACAAAGCCAGCCTCACTAGAACCCTACAGCACAGGATTGCACTCC
ACGTAGCTGATGGTTTGAGATACCTCCACTCAGCCATGATTATATACCGAGACCTGAAACCCCA
CAATGTGCTGCTTTTCACACTGTATCCCAATGCTGCCATCATTGCAAAGATTGCTGACTACGGCA
TTGCTCAGTACTGCTGTAGAATGGGGATAAAAACATCAGAGGGCACACCAGGGTTTCGTGCACC
TGAAGTTGCCAGAGGAAATGTCATTTATAACCAACAGGCTGATGTTTATTCATTTGGTTTACTACT
CTATGACATTTTGACAACTGGAGGTAGAATAGTAGAGGGTTTGAAGTTTCCAAATGAGTTTGATG
AATTAGAAATACAAGGAAAATTACCTGATCCAGTTAAAGAATATGGTTGTGCCCCATGGCCTATG
GTTGAGAAATTAATTAAACAGTGTTTGAAAGAAAATCCTCAAGAAAGGCCTACTTCTGCCCAGGT
CTTTGACATTTTGAATTCAGCTGAATTAGTCTGTCTGACGAGACGCATTTTATTACCTAAAAACGT
AATTGTTGAATGCATGGTTGCTACACATCACAACAGCAGGAATGCAAGCATTTGGCTGGGCTGT
GGGCACACCGACAGAGGACAGCTCTCATTTCTTGACTTAAATACTGAAGGATACACTTCTGAGG
AAGTTGCTGATAGTAGAATATTGTGCTTAGCCTTGGTGCATCTTCCTGTTGAAAAGGAAAGCTGG
ATTGTGTCTGGGACACAGTCTGGTACTCTCCTGGTCATCAATACCGAAGATGGGAAAAAGAGAC
ATACCCTAGAAAAGATGACTGATTCTGTCACTTGTTTGTATTGCAATTCCTTTTCCAAGCAAAGCA
AACAAAAAAATTTTCTTTTGGTTGGAACCGCTGATGGCAAGTTAGCAATTTTTGAAGATAAGACT
GTTAAGCTTAAAGGAGCTGCTCCTTTGAAGATACTAAATATAGGAAATGTCAGTACTCCATTGAT
GTGTTTGAGTGAATCCACAAATTCAACGGAAAGAAATGTAATGTGGGGAGGATGTGGCACAAAG
ATTTTCTCCTTTTCTAATGATTTCACCATTCAGAAACTCATTGAGACAAGAACAAGCCAACTGTTT
TCTTATGCAGCTTTCAGTGATTCCAACATCATAACAGTGGTGGTAGACACTGCTCTCTATATTGCT
AAGCAAAATAGCCCTGTTGTGGAAGTGTGGGATAAGAAAACTGAAAAACTCTGTGGACTAATAG
ACTGCGTGCACTTTTTAAGGGAGGTAATGGTAAAAGAAAACAAGGAATCAAAACACAAAATGTC
TTATTCTGGGAGAGTGAAAACCCTCTGCCTTCAGAAGAACACTGCTCTTTGGATAGGAACTGGA
GGAGGCCATATTTTACTCCTGGATCTTTCAACTCGTCGACTTATACGTGTAATTTACAACTTTTGT
AATTCGGTCAGAGTCATGATGACAGCACAGCTAGGAAGCCTTAAAAATGTCATGCTGGTATTGG
GCTACAACCGGAAAAATACTGAAGGTACACAAAAGCAGAAAGAGATACAATCTTGCTTGACCGT
TTGGGACATCAATCTTCCACATGAAGTGCAAAATTTAGAAAAACACATTGAAGTGAGAAAAGAA
TTAGCTGAAAAAATGAGACGAACATCTGTTGAGTAAGAGAGAAATAGGCGGCCGC

Amino Acid Sequence:

MDYKDDDDKGSMASGSCQGCEEDEETLKKLIVRLNNVQEGKQIETLVQIL
EDLLVFTYSEHASKLFQGKNIHVPLLIVLDSYMRVASVQQVGWSLLCKLI
EVCPGTMQSLMGPQDVGNDWEVLGVHQLILKMLTVHNASVNLSVIGLKTL
DLLLTSGKITLLILDEESDIFMLIFDAMHSFPANDEVQKLGCKALHVLFE
RVSEEQLTEFVENKDYMILLSALTNFKDEEEIVLHVLHCLHSLAIPCNNV
EVLMSGNVRCYNIVVEAMKAFPMSERIQEVSCCLLHRLTLGNFFNILVLN
EVHEFVVKAVQQYPENAALQISALSCLALLTETIFLNQDLEEKNENQEND
DEGEEDKLFWLEACYKALTWHRKNKHVQEAACWALNNLLMYQNSLHEKIG
DEDGHFPAHREVMLSMLMHSSSKEVFQASANALSTLLEQNVNFRKILLSK
GIHLNVLELMQKHIHSPEVAESGCKMLNHLFEGSNTSLDIMAAVVPKILT
VMKRHETSLPVQLEALRAILHFIVPGMPEESREDTEFHHKLNMVKKQCFK
NDIHKLVLAALNRFIGNPGIQKCGLKVISSIVHFPDALEMLSLEGAMDSV

University of Dundee
School of Life Sciences MSI/WTB Complex University of Dundee Dundee DD1 5EH
telephone: +44 (0) 1382 388 053 email: mrcppureagents@dundee.ac.uk

LHTLQMYPDDQEIQCLGLSLIGYLITKKNVFIGTGHLLAKILVSSLYRFK
DVAEIQTKGFQTILAILKLSASFSKLLVHHSFDLVIFHQMSSNIMEQKDQ
QFLNLCCKCFAKVAMDDYLKNVMLERACDQNNSIMVECLLLLGADANQAK
EGSSLICQVCEKESSPKLVELLLNSGSREQDVRKALTISIGKGDSQIISL
LLRRLALDVANNSICLGGFCIGKVEPSWLGPLFPDKTSNLRKQTNIASTL
ARMVIRYQMKSAVEEGTASGSDGNFSEDVLSKFDEWTFIPDSSMDSVFAQ
SDDLDSEGSEGSFLVKKKSNSISVGEFYRDAVLQRCSPNLQRHSNSLGPI
FDHEDLLKRKRKILSSDDSLRSSKLQSHMRHSDSISSLASEREYITSLDL
SANELRDIDALSQKCCISVHLEHLEKLELHQNALTSFPQQLCETLKSLTH
LDLHSNKFTSFPSYLLKMSCIANLDVSRNDIGPSVVLDPTVKCPTLKQFN
LSYNQLSFVPENLTDVVEKLEQLILEGNKISGICSPLRLKELKILNLSKN
HISSLSENFLEACPKVESFSARMNFLAAMPFLPPSMTILKLSQNKFSCIP
EAILNLPHLRSLDMSSNDIQYLPGPAHWKSLNLRELLFSHNQISILDLSE
KAYLWSRVEKLHLSHNKLKEIPPEIGCLENLTSLDVSYNLELRSFPNEMG
KLSKIWDLPLDELHLNFDFKHIGCKAKDIIRFLQQRLKKAVPYNRMKLMI
VGNTGSGKTTLLQQLMKTKKSDLGMQSATVGIDVKDWPIQIRDKRKRDLV
LNVWDFAGREEFYSTHPHFMTQRALYLAVYDLSKGQAEVDAMKPWLFNIK
ARASASPVILVGTHLDVSDEKQRKACMSKITKELLNKRGFPAIRDYHFVN
ATEESDALAKLRKTIINESLNFKIRDQLVVGQLIPDCYVELEKIILSERK
NVPIEFPVIDRKRLLQLVRENQLQLDENELPHAVHFLNESGVLLHFQDPA
LQLSDLYFVEPKWLCKIMAQILTVKVEGCPKHPKGIISRRDVEKFLSKKR
KFPKNYMTQYFKLLEKFQIALPIGEEYLLVPSSLSDHRPVIELPHCENSE
IIIRLYEMPYFPMGFWSRLINRLLEISPYMLSGRERALRPNRMYWRQGIY
LNWSPEAYCLVGSEVLDNHPESFLKITVPSCRKGCILLGQVVDHIDSLME
EWFPGLLEIDICGEGETLLKKWALYSFNDGEEHQKILLDDLMKKAEEGDL
LVNPDQPRLTIPISQIAPDLILADLPRNIMLNNDELEFEQAPEFLLGDGS
FGSVYRAAYEGEEVAVKIFNKHTSLRLLRQELVVLCHLHHPSLISLLAAG
IRPRMLVMELASKGSLDRLLQQDKASLTRTLQHRIALHVADGLRYLHSAM
IIYRDLKPHNVLLFTLYPNAAIIAKIADYGIAQYCCRMGIKTSEGTPGFR
APEVARGNVIYNQQADVYSFGLLLYDILTTGGRIVEGLKFPNEFDELEIQ
GKLPDPVKEYGCAPWPMVEKLIKQCLKENPQERPTSAQVFDILNSAELVC
LTRRILLPKNVIVECMVATHHNSRNASIWLGCGHTDRGQLSFLDLNTEGY
TSEEVADSRILCLALVHLPVEKESWIVSGTQSGTLLVINTEDGKKRHTLE
KMTDSVTCLYCNSFSKQSKQKNFLLVGTADGKLAIFEDKTVKLKGAAPLK
ILNIGNVSTPLMCLSESTNSTERNVMWGGCGTKIFSFSNDFTIQKLIETR
TSQLFSYAAFSDSNIITVVVDTALYIAKQNSPVVEVWDKKTEKLCGLIDC
VHFLREVMVKENKESKHKMSYSGRVKTLCLQKNTALWIGTGGGHILLLDL
STRRLIRVIYNFCNSVRVMMTAQLGSLKNVMLVLGYNRKNTEGTQKQKEI
QSCLTVWDINLPHEVQNLEKHIEVRKELAEKMRRTSVE*

Antibiotic:
Amp

Comments:
S1444A. Several silent nucleotide changes as compared to the reference sequence; C>A 4872bp, A>G 4911bp and G>A 5058bp. All LRRK2 plasmids MUST be grown at 30°C or less to prevent recombination Contains SNP S1647T

Price per aliquot:
£110.00

University of Dundee
School of Life Sciences MSI/WTB Complex University of Dundee Dundee DD1 5EH
telephone: +44 (0) 1382 388 053 email: mrcppureagents@dundee.ac.uk