



## LRRK2

Expressed:

**FLAG-LRRK2 S1443A S1444A**

Plasmid:

**pCMV5 FLAG LRRK2 S1443A S1444A**

Parent Plasmid:

**pCMV5 FLAG1**

DU Number:

**DU48032**

Genbank:

**NM\_198578.3**

Species:

**Human**

Synonyms:

**AURA17, DARDARIN, PARK8, RIPK7, ROCO2**

Sequence of Insert:

**ATGGACTACAAGGACGATGACGATAAGGGATCCATGGCTAGTGGCAGCTGTCAGGGGTGCGAA  
GAGGACGAGGAACTCTGAAGAAGTTGATAGTCAGGCTGAACAATGTCCAGGAAGGAAAACAG  
ATAGAAACGCTGGTCCAAATCCTGGAGGATCTGCTGGTGTTCACGTACTCCGAGCACGCCTCCA  
AGTTATTTCAAGGCAAAAATATCCATGTGCCTCTGTTGATCGTCTTGGACTCCTATATGAGAGTC  
GCGAGTGTGCAGCAGGTGGGTTGGTCACTTCTGTGCAAATTAATAGAAGTCTGTCCAGGTACAA  
TGCAAAGCTTAATGGGACCCAGGATGTTGGAAATGATTGGGAAGTCCTTGGTGTTCACCAATT  
GATTCTTAAAATGCTAACAGTTCATAATGCCAGTGTAACCTTGTCAAGTATTGGACTGAAGACCT  
TAGATCTCCTCCTAACTTCAGGTAATAATCACCTTGCTGATATTGGATGAAGAAAGTGATATTTTCA  
TGTTAATTTTTGATGCCATGCACTCATTCCAGCCAATGATGAAGTCCAGAACTTGGATGCAAA  
GCTTTACATGTGCTGTTTGAGAGAGTCTCAGAGGAGCAACTGACTGAATTTGTTGAGAACAAG  
ATTATATGATATTGTTAAGTGCGTAAACAAATTTAAAGATGAAGAGGAAATTGTGCTTCATGTGC  
TGCATTGTTTACATTCCCTAGCGATTCTTGAATAATGTGGAAGTCCTCATGAGTGGCAATGTC  
AGGTGTTATAATATTGTGGTGGAAAGCTATGAAAGCATTCCCTATGAGTGAAAGAATTCAAGAAGT  
GAGTTGCTGTTTGCTCCATAGGCTTACATTAGGTAATTTTTTCAATATCCTGGTATTAACGAAGT  
CCATGAGTTTGTGGTGAAGCTGTGCAGCAGTACCCAGAGAATGCAGCATTGCAGATCTCAGCG  
CTCAGCTGTTTGGCCCTCCTCACTGAGACTATTTTCTTAAATCAAGATTTAGAGGAAAAGAATGA  
GAATCAAGAGAATGATGATGAGGGGAAGAAGATAAATTGTTTTGGCTGGAAGCCTGTTACAAA  
GCATTAACGTGGCATAGAAAGAACAAGCACGTGCAGGAGGCCGCATGCTGGGCACTAAATAAT  
CTCCTTATGTACCAAACAGTTTACATGAGAAGATTGGAGATGAAGATGGCCATTTCCAGCTCA  
TAGGGAAGTGATGCTCTCCATGCTGATGCATTCTTCATCAAAGGAAGTTTTCCAGGCATCTGCGA  
ATGCATTGTCAACTCTCTTAGAACAAAATGTTAATTTAGAAAAATACTGTTATCAAAGGAATA  
CACCTGAATGTTTTGGAGTTAATGCAGAAGCATATACATTCTCCTGAAGTGGCTGAAAGTGGCTG  
TAAAATGCTAAATCATCTTTTTGAAGGAAGCAACACTTCCCTGGATATAATGGCAGCAGTGGTCC  
CCAAAATACTAACAGTTATGAAACGTCATGAGACATCATTACCAGTGCAGCTGGAGGCGCTTCG**

AGCTATTTTACATTTTATAGTGCCTGGCATGCCAGAAGAATCCAGGGAGGATACAGAATTTTCATC  
ATAAGCTAAATATGGTTAAAAAACAGTGTTC AAGAATGATATTCACAAACTGGTCTTAGCAGCT  
TTGAACAGGTTCAATTGGAATCCTGGGATTCAGAAATGTGGATTAAGTAATTTCTTCTATTGTA  
CATTTTCTGATGCATTAGAGATGTTATCCCTGGAAGGTGCTATGGATTAGTGCCTCACACACT  
GCAGATGTATCCAGATGACCAAGAAATTCAGTGTCTGGGTTTAAGTCTTATAGGATACTTGATTA  
CAAAGAAGAATGTGTTTATAGGAAGTGGACATCTGCTGGCAAAAATTCTGGTTTCCAGCTTATAC  
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TGACCACAGGCCTGTGATAGAGCTTCCCCATTGTGAGA ACTCTGAAATTATCATCCGACTATATG  
AAATGCCTTATTTTCCAATGGGATTTTGGTCAAGATTAATCAATCGATTACTTGAGATTTACACCTT  
ACATGCTTTCAGGGAGAGAACGAGCACTTCGCCCAAACAGAATGTATTGGCGACAAGGCATTTA  
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CTCACCATTCCAATATCTCAGATTGCCCTGACTTGATTTTGGCTGACCTGCCTAGAAATATTATG  
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CTATGACATTTTGAACA ACTGGAGGTAGAATAGTAGAGGGTTTGAAGTTTCAAATGAGTTTGATG  
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GTTGAGAAATTAATTAACAGTGTGGAAAGAAAATCCTCAAGAAAGGCCTACTTCTGCCCAGGT  
CTTTGACATTTTGAATTCAGCTGAATTAGTCTGTCTGACGAGACGCATTTTATTACCTAAAAACGT  
AATTGTTGAATGCATGGTTGCTACACATCACAACAGCAGGAATGCAAGCATTGGCTGGGCTGT  
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ATTTTCTCCTTTTCTAATGATTTACCATT CAGAACTCATTGAGACAAGAACAAGCCA ACTGTTT  
TCTTATGCAGCTTTCAGTGATTTCAACATCATAACAGTGGTGGTAGACACTGCTCTCTATATTGCT  
AAGCAAAATAGCCCTGTTGTGGAAGTGTGGGATAAGAAA ACTGAAA ACTCTGTGGACTAATAG  
ACTGCGTGCAC TTTTAAAGGGAGGTAATGGTAAAAGAAAACAAGGAATCAAACACAAAATGTC  
TTATTCTGGGAGAGTGAAAACCCTCTGCCTTCAGAAGA AACTGCTCTTTGGATAGGAACTGGA  
GGAGGCCATATTTACTCCTGGATCTTTCAACTCGTCGACTTATACGTGTAATTTACA ACTTTTGT  
AATTCGGTCAGAGTCATGATGACAGCACAGCTAGGAAGCCTTAAAAATGTCATGCTGGTATTGG  
GCTACAACCGGAAAAATACTGAAGGTACACAAAAGCAGAAAGAGATACAATCTTGCTTGACCGT  
TTGGGACATCAATCTTCCACATGAAGTGCAAAATTTAGAAAAACACATTGAAGTGAGAAAAGAA  
TTAGCTGAAAAAATGAGACGAACATCTGTTGAGTAAGAGAGAAATAGGCGGCCGC

Amino Acid Sequence:

MDYKDDDDKGS MASGSCQGC EDEETLKKLIVRLN NVQEGKQIETLVQIL  
EDLLVFTYSEHASKL FQGNIVHPLLIVLDSYMRVASVQ QVWWSLLCKLI  
EVCPTMQSLMGPQD VGNDEVLGVHQLILKMLTVHNASV NLSVIGLKTL  
DLLLLTSGKITLLIL DEESDIFMLIFDAMHSFPANDEVQ KLGCKALHVLFE  
RVSEEQLTEFVENK DYMILLSALTNFKDEEEIVLHVLHCLHSLAIPCNNV  
EVLMSGNVRCYNIV VEAMKAFPMSERIQEVSCLLHRLTLGNFFN ILVLN  
EVHEFVVKAVQQYP ENAALQISALSCLALLTETIFLNQD LEEKNENQEND  
DEGEEDKLFWLEACY KALTWHRKNKHVQEAACWALN NLLMYQNSLHEKIG  
DEDGHFPAHREVM L SMLMHSSSKEVFQASANALSTLLEQNVNFRKILLSK  
GIHLNVLELMQKHI HSPEVAESGCKMLNHLFEGSNTSLDIMA AVVPKILT  
VMKRHETSLPVQLE ALRAILHFIVPGMPEESREDETFHHK LNMVKKQCFK  
NDIHKLVLAALNRFIG NPGIQKCGLKVISSIVHFPDALEMLS LEGAMDSV

LHTLQMYPDDQEIQCLGLSLIGYLITKKNVFIGTGHLLAKILVSSLYRFK  
DVAEIQTkgfQTLAILKLSASFSKLLVHHSFDLVIFHQMSSNIMEQKDQ  
QFLNLCKCKFAKVAMDDYLKNVMLERACDQNNSIMVECLLLL GADANQAK  
EGSSLICQVCEKESPPLVELLLNSGSREQDVRKALTISIGKGD SQIISL  
LLRRALDVANNICLGGFCIGKVEPSWLGPLFPDKTSNLRKQTNIAS TL  
ARMVIRYQMKSAVEEGTASGSDGNFSEDVLSKFDEWTFIPDSSMDSVFAQ  
SDDL DSEGSEGSFLVKKKSNSISVGEFYRDAVLQRCS PNLQRHSNSL GPI  
FDHEDLLKRKRKILSSDDSLRSSKLQSHMRHSDSISSLASEREYITSLDL  
SANELRDIDALSQKCCISVHLEHLEKLELHQNALTSFPQQLCETL KSLTH  
LDLHSNKFTSFP SYLLKMSCIANLDVSRNDIGPSVVL DPTVKCPTLKQFN  
LSYNQLSFVPENLTDVVEKLEQLILEGNKISGICSPRLKELKILNLSKN  
HISSLSENFL EACP KVESFSARMNFLAAMPFLPPSMTILKLSQNK FSCIP  
EAILNPLHLRSLDMSSNDIQYLPGAHWKSLNLR ELLFSHNQISILDSE  
KAYLWSRVEKLHLSHNKLKEIPPEIGCLENLTSLDVSYNLELR SFPNEMG  
KLSKIWDLPLDELHLNDFDKHIGCKAKDIIRFLQQR LKKA VPYNRMK LMI  
VGNTGSGKTTLLQQLMKT KSDLG MQSATV GIDVKDWPIQIRDKRKRDLV  
LNVWDFAGREEFYSTHPHMTQRALYLAVYDLSKGQAEVDAMKPWLFNIK  
ARAAASPVILVGTHLDV SDEKQRKACMSKITKELLNKRGF PAIRDYHFVN  
ATEESDALAKLRKTIINESLNFKIRDQLVVGQLIPDCYVELEKIILSERK  
NVPIEFPVIDRKRLLQLVRENQLQLDENELPHAVHFLNESGVLLHFQDPA  
LQLSDLYFVEPKWLCKIMAQILTVKVEGCPKHPKGIISRRDVEKFLSKKR  
KFPKNYMTQYFKLLEKFQIALPIGEEYLLVPSSLS DHRPVIELPHCENSE  
IIRLYEMPYFPMGFWSRLINRLEISPYMLSGRERALRPNRMYWRQGIY  
LNWSPEAYCLVGSEVLDNHPESFLKITVPS CRKGCILLGQVVDHIDSLME  
EWFPGLLEIDICGEGETLLKKWALYSFNDGEEHQILLDDLMKKAEEGDL  
LVNPDQPRLTIPISQIAPDLILADLPRNIMLN NDELEFEQAPEFLLGDGS  
FGSVYRAAYEGEEVAVKIFNKHTSLRLLRQELVVLCHLHHP SLISLLAAG  
IRPRMLVMELASKGSLDRLLQQDKASLTRTLQHRIALHVADGLRYLHSAM  
IYRDLKPHNVLLFTLYPNAIIAKIADYGIAQYCCRMGIKTSEGTPGFR  
APEVARGNVIYNQQADVYSFGLLLYDILTTGGRIVEGLKFPNEFDELEIQ  
GKLPDPVKEYGCAPWPMVEKLIKQCLKENPQERPTSAQVFDILNSAELVC  
LTRRILLPKNVIVECMVATHHNSRNASIWLGC GHTDRGQLSFLDLNTEGY  
TSEEVADSRILCLALVHLPVEKESWIVSGTQSGTLLVINTEDGKKRHTLE  
KMTDSVTCLYCNSFSKQSKQKNFLLVGTADGKLAIFEDKTVKLKGAAPLK  
ILNIGNVSTPLMCLSESTNSTERNVMWGGCGTKIFSFSNDFTIQKLIETR  
TSQLFSYAAFSDSNITVVVDTALYIAKQNSPVVEVWDKKTEKLCGLIDC  
VHFLREVMVKENKESKHKMSYSGRVKTLCLQKNTALWIGTGGGHILLDL  
STRRLIRVIYNFCNSVRVMMTAQLGSLKNVMLVLGYNRKNTEGTQKQKEI  
QSCLTVWDINLPHEVQNLEKHIEVRKELAEKMRRTSVE\*

Antibiotic:

**Amp**

Comments:

**S1443A & S1444A. Two silent nucleotide changes as compared to the reference sequence; C>A 4872bp and A>G 4911bp. All LRRK2 plasmids MUST be grown at 30°C or less to prevent recombination Contains SNP S1647T**

Price per aliquot:

**£110.00**