



## LRRK2

Expressed:

**FLAG LRRK2 A549S**

Plasmid:

**pCMV5 Flag LRRK2 A549S**

Parent Plasmid:

**pCMV5 FLAG**

DU Number:

**DU62499**

Species:

**Human**

Synonyms:

Sequence of Insert:

```
GGATCCATGGCTAGTGGCAGCTGTCAGGGGTGCGAAGAGGACGAGGAACTCTGAAGAAGTTG
ATAGTCAGGCTGAACAATGTCCAGGAAGGAAAACAGATAGAAACGCTGGTCCAAATCCTGGAG
GATCTGCTGGTGTTCACGTA CTCCGAGCACGCCTCCAAGTTATTTCAAGGCAAAAATATCCATGT
GCCTCTGTTGATCGTCTTGGACTCCTATATGAGAGTCGCGAGTGTGCAGCAGGTGGGTTGGTCA
CTTCTGTGCAAATTAATAGAAGTCTGTCCAGGTACAATGCAAAGCTTAATGGGACCCCAGGATG
TTGGAAATGATTGGGAAGTCCTTGGTGTTACCAATTGATTCTTAAAATGCTAACAGTTCATAAT
GCCAGTGTA AACTTGT CAGTGATTGGACTGAAGACCTTAGATCTCCTCCTAACTTCAGGTA AAT
CACCTTGCTGATATTGGATGAAGAAAGTGATATTTTCATGTTAATTTTTGATGCCATGCACTCATT
TCCAGCCAATGATGAAGTCCAGAACTTGGATGCAAAGCTTTACATGTGCTGTTTGAGAGAGTCT
CAGAGGAGCAACTGACTGAATTTGTTGAGAACA AAGATTATATGATATTGTTAAGTGC GTTAACA
AATTTTAAAGATGAAGAGGAAATTGTGCTTCATGTGCTGCATTGTTTACATTCCCTAGCGATTCTT
TGCAATAATGTGGAAGTCCTCATGAGTGGCAATGTCAGGTGTTATAATATTGTGGTGG AAGCTAT
GAAAGCATTCCCTATGAGTGAAAGAATTCAAGAAGTGAGTTGCTGTTTGCTCCATAGGCTTACAT
TAGGTAATTTTTCAATATCCTGGTATTAACGAAGTCCATGAGTTTGTGGTGAAAGCTGTGCAG
CAGTACCAGAGAATGCAGCATTGCAGATCTCAGCGCTCAGCTGTTTGGCCCTCCTCACTGAGA
CTATTTTCTTAAATCAAGATTTAGAGGAAAAGAATGAGAATCAAGAGAATGATGATGAGGGGGA
AGAAGATAAATTGTTTTGGCTGGAAGCCTGTTACAAAGCATTAACTGATGAGGAGGAGGAGGAG
CACGTGCAGGAGGCCGCATGCTGGGCACTAAATAATCTCCTTATGTACCAAACAGTTTACATG
AGAAGATTGGAGATGAAGATGGCCATTTCCAGCTCATAGGGAAGTGATGCTCTCCATGCTGAT
GCATTCTTCATCAAAGGAAGTTTTCCAGGCATCTGCGAATGCATTGTCAACTCTCTTAGAACAAA
ATGTTAATTTCAGAAAAATACTGTTATCAAAGGAATACACCTGAATGTTTTGGAGTTAATGCAG
AAGCATATACATTCTCCTGAAGTGGCTGAAAGTGGCTGTAAAATGCTAAATCATCTTTTTGAAGG
AAGCAACACTTCCCTGGATATAATGGCAGCAGTGGTCCCCAAAATACTAACAGTTATGAAACGT
CATGAGACATCATTACCAGTGCAGCTGGAGGCGCTTCGAGCTATTTTACATTTTATAGTGCCTGG
CATGCCAGAAGAATCCAGGGAGGATACAGAATTTATCATAAGCTAAATATGGTTAAAAAACAG
TGTTTCAAGAATGATATTCACAAACTGGTCCTAGCATCTTTGAACAGGTTTCATTGGAAATCCTGG
GATTCAGAAATGTGGATTA AAGTAATTTCTTCTATTGTACATTTTCTGATGCATTAGAGATGTT
```

ATCCCTGGAAGGTGCTATGGATTCAAGTCTTACACACTGCAGATGTATCCAGATGACCAAGAA  
ATTCAGTGTCTGGGTTAAGTCTTATAGGATACTTGATTACAAAGAAGAATGTGTTTCATAGGAAC  
TGGACATCTGCTGGCAAAAATTCTGGTTTCCAGCTTATACCGATTTAAGGATGTTGCTGAAATAC  
AGACTAAAGGATTTTCAGACAATCTTAGCAATCCTCAAATTGTCAGCATCTTTTTCTAAGCTGCTG  
GTGCATCATTCAATTTGACTTAGTAATATTCCATCAAATGTCTTCCAATATCATGGAACAAAAGGAT  
CAACAGTTTCTAAACCTCTGTTGCAAGTGTGTTTGCAAAAGTAGCTATGGATGATTACTTAAAAAAT  
GTGATGCTAGAGAGAGCGTGTGATCAGAATAACAGCATCATGGTTGAATGCTTGCTTCTATTGG  
GAGCAGATGCCAATCAAGCAAAGGAGGGATCTTCTTTAATTTGTCAGGTATGTGAGAAAAGAGAG  
CAGTCCCAAATTGGTGGAACTCTTACTGAATAGTGGATCTCGTGAACAAGATGTACGAAAAGCG  
TTGACGATAAGCATTGGGAAAGGTGACAGCCAGATCATCAGCTTGCTCTTAAGGAGGCTGGCCC  
TGGATGTGGCCAACAATAGCATTGCTTGGAGGATTTTGTATAGGAAAAGTTGAACCTTCTTGG  
CTTGGTCTTTATTTCCAGATAAGACTTCTAATTTAAGGAAACAAACAATATAGCATCTACACTA  
GCAAGAATGGTGTATCAGATATCAGATGAAAAGTGTGTGGAAGAAGGAACAGCCTCAGGCAGC  
GATGGAAATTTTTCTGAAGATGTGCTGTCTAAATTTGATGAATGGACCTTTATTCCTGACTCTTCT  
ATGGACAGTGTGTTTGTCAAAGTGTGACCTGGATAGTGAAGGAAGTGAAGGCTCATTCTTGT  
GAAAAGAAATCTAATCAATTAGTGTAGGAGAATTTTACCGAGATGCCGTATTACAGCGTTGCT  
CACCAAATTTGCAAAGACATTCCAATTCCTTGGGGCCCATTTTTGATCATGAAGATTTACTGAAG  
CGAAAAGAAAAATACTATCTTCAGATGATTCACTCAGGTCATCAAACTTCAATCCCATATGAG  
GCATTCAGACAGCATTCTTCTCTGGCTTCTGAGAGAGAATATATTACATCACTAGACCTTTCAG  
CAAATGAACTAAGAGATATTGATGCCCTAAGCCAGAAATGCTGTATAAGTGTTCATTTGGAGCAT  
CTTGAAAAGCTGGAGCTTCACCAGAATGCACTCACGAGCTTTCACAACAGCTATGTGAAACTC  
TGAAGAGTTTGACACATTTGGACTTGCACAGTAATAAATTTACATCATTTCCTTCTTATTTGTTGA  
AAATGAGTTGTATTGCTAATCTTGATGTCTCTCGAAATGACATTGGACCCTCAGTGGTTTTAGATC  
CTACAGTGAAATGTCCAACCTCTGAAACAGTTAACCTGTCATATAACCAGCTGTCTTTTGTACCT  
GAGAACCTCACTGATGTGGTAGAGAACTGGAGCAGCTCATTTTAGAAGGAATAAAATATCAG  
GGATATGCTCCCCCTTGAGACTGAAGGAAGTGAAGATTTTAAACCTTAGTAAGAACCACATTTCA  
TCCCTATCAGAGAACTTTCTTGAGGCTTGTCTAAAGTGGAGAGTTTCAGTGCCAGAATGAATTT  
TCTTGCTGCTATGCCTTTCTTGCCTCCTTCTATGACAATCCTAAAATTATCTCAGAACAAATTTCC  
TGTATTCCAGAAGCAATTTTAAATCTTCCACACTTGCAGTCTTTAGATATGAGCAGCAATGATATT  
CAGTACCTACCAGGTCCTGCACACTGGAAATCTTTGAACTTAAAGGGAAGTCTTATTTAGCCATAA  
TCAGATCAGCATCTTGGACTTGAGTGAAAAGCATATTTATGGTCTAGAGTAGAGAACTGCATC  
TTTCTCACAATAAACTGAAAGAGATTCTCCTGAGATTGGCTGTCTTGAAAATCTGACATCTCTG  
GATGTCAGTTACAACCTTGGAACTAAGATCCTTTCCAATGAAATGGGGAAATTAAGCAAAATATG  
GGATCTTCTTTGGATGAACTGCATCTTAACTTTGATTTTAAACATATAGGATGTAAAGCCAAAG  
ACATCATAAGGTTTCTTCAACAGCGATTAAAAAAGGCTGTGCCTTATAACCGAATGAACTTATG  
ATTGTGGGAAATACTGGGAGTGGTAAACCACCTTATTGCAGCAATTAATGAAAACCAAGAAAT  
CAGATCTTGAATGCAAAGTGCCACAGTTGGCATAGATGTGAAAGACTGGCCTATCCAAATAAG  
AGACAAAAGAAAGAGAGATCTCGTCTAAATGTGTGGGATTTTGCAGGTCGTGAGGAATTCTAT  
AGTACTCATCCCCATTTTATGACGCAGCGAGCATTGTACCTTGCTGTCTATGACCTCAGCAAGGG  
ACAGGCTGAAGTTGATGCCATGAAGCCTTGGCTTCTCAATATAAAGGCTCGCGCTTCTTCTTCCC  
CTGTGATTCTCGTTGGCACACATTTGGATGTTTCTGATGAGAAGCAACGCAAAGCCTGCATGAGT  
AAAATCACCAAGGAACTCCTGAATAAGCGAGGGTTCCCTGCCATACGAGATTACCACTTTGTGA  
ATGCCACCGAGGAATCTGATGCTTTGGCAAACTTCGGAAAACCATCATAAACGAGAGCCTTAA  
TTTCAAGATCCGAGATCAGCTTGTGTTGGACAGCTGATTCCAGACTGCTATGTAGAAGTTGAAA  
AAATCATTTTATCGGAGCGTAAAAATGTGCCAATTGAATTTCCCGTAATTGACCGGAAACGATTA  
TTACAACACTAGTGAGAGAAAATCAGCTGCAGTTAGATGAAAATGAGCTTCTCACGCAGTTCACTT  
TCTAAATGAATCAGGAGTCTTCTTCAATTTCAAGACCCAGCACTGCAGTTAAGTACTTGTACTT  
TGTGGAACCCAAGTGGCTTTGTAAAATCATGGCACAGATTTTGCAGTGAAAGTGGAAAGTTGT  
CCAAAACACCCTAAGGGAATTTTCGCGTAGAGATGTGGAAAAATTTCTTTCAAAGAAAAGGA  
AATTTCAAAGAAGTACATGACACAGTATTTAAGCTCCTAGAAAATTCAGATTGCTTTGCCA  
ATAGGAGAAGAATATTTGCTGGTTCCAAGCAGTTTGTCTGACCACAGGCCTGTGATAGAGCTTC  
CCCATTGTGAGAAGTCTGAAATTATCATCCGACTATATGAAATGCCTTATTTTCCAATGGGATTTT  
GGTCAAGATTAATCAATCGATTACTTGAGATTTACCTTACATGCTTTCAGGGAGAGAACGAGCA  
CTTCGCCCAAACAGAATGTATTGGCGACAAGGCATTTACTTAAATTGGTCTCCTGAAGCTTATTG

TCTGGTAGGATCTGAAGTCTTAGACAATCATCCAGAGAGTTTCTTAAAAATTACAGTTCCTTCTTG  
TAGAAAAGGCTGTATTCTTTTGGGCCAAGTTGTGGACCACATTGATTCTCTCATGGAAGAATGGT  
TTCCTGGGTTGCTGGAGATTGATATTTGTGGTGAAGGAGAACTCTGTTGAAGAAATGGGCATTA  
TATAGTTTTAATGATGGTGAAGAACATCAAAAAATCTTACTTGATGACTTGATGAAGAAAGCAGA  
GGAAGGAGATCTCTTAGTAAATCCAGATCAACCAAGGCTCACCATTCCAATATCTCAGATTGCC  
CCTGACTTGATTTTGGCTGACCTGCCTAGAAATATTATGTTGAATAATGATGAGTTGGAATTTGAA  
CAAGCTCCAGAGTTTCTCCTAGGTGATGGCAGTTTTGGATCAGTTTACCGAGCAGCCTATGAAG  
GAGAAGAAGTGGCTGTGAAGATTTTTAATAAACATACATCACTCAGGCTGTTAAGACAAGAGCT  
TGTGGTGCTTTGCCACCTCCACCACCCAGTTTGATATCTTTGCTGGCAGCTGGGATTCTGCCCC  
GGATGTTGGTGTGAGTTAGCCTCCAAGGGTTCCTTGGATCGCCTGCTTCAGCAGGACAAAGC  
CAGCCTCACTAGAACCCTACAGCACAGGATTGCACTCCACGTAGCTGATGGTTTGAGATACCTC  
CACTCAGCCATGATTATATACCGAGACCTGAAACCCACAATGTGCTGCTTTTCACACTGTATCC  
CAATGCTGCCATCATTGCAAAGATTGCTGACTACGGCATTGCTCAGTACTGCTGTAGAATGGGG  
ATAAAAACATCAGAGGGCACACCAGGGTTTCGTGCACCTGAAGTTGCCAGAGGAAATGTCATTT  
ATAACCAACAGGCTGATGTTTATTCATTTGGTTTACTACTCTATGACATTTTGACAACCTGGAGGTA  
GAATAGTAGAGGGTTTGAAGTTTCAAATGAGTTTGATGAATTAGAAATACAAGGAAAATTACCT  
GATCCAGTTAAAGAATATGTTTGTGCCCCATGGCCTATGTTTGAGAAATTAATTAACAGTGTTT  
GAAAGAAAATCCTCAAGAAAGGCCTACTTCTGCCAGGTCTTTGACATTTTGAATTCAGCTGAAT  
TAGTCTGTCTGACGAGACGCATTTTATTACCTAAAAACGTAATTGTTGAATGCATGGTTGCTACA  
CATCACAACAGCAGGAATGCAAGCATTGGCTGGGCTGTGGGCACACCGACAGAGGACAGCTC  
TCATTTCTTGACTTAAATACTGAAGGATACACTTCTGAGGAAGTTGCTGATAGTAGAATATTGTG  
CTTAGCCTTGGTGCATCTTCTGTTGAAAAGGAAAGCTGGATTGTGTCTGGGACACAGTCTGGTA  
CTCTCCTGGTCATCAATACCGAAGATGGGAAAAGAGACATACCCTAGAAAAGATGACTGATTC  
TGTCACTTGTGTATTGCAATTCCTTTTCCAAGCAAAGCAAACAAAAAATTTTCTTTTGGTTGG  
AACCGCTGATGGCAAGTTAGCAATTTTGAAGATAAGACTGTTAAGCTTAAAGGAGCTGCTCCTT  
TGAAGATACTAAATATAGGAAATGTCAGTACTCCATTGATGTGTTTGAGTGAATCCACAAATTCA  
ACGGAAGAAATGTAATGTGGGGAGGATGTGGCACAAGATTTTCTCCTTTTCTAATGATTTTAC  
CATTCAGAACTCATTGAGACAAGAACAAGCCAAGTCTTTTCTTATGCAGCTTTTCAAGTATTCCA  
ACATCATAACAGTGGTGGTAGACTGCTCTCTATATTGCTAAGCAAATAGCCCTGTTGTGGAA  
GTGTGGGATAAGAAAACCTGAAAACCTCTGTGGACTAATAGACTGCGTGCACCTTTTAAAGGGAGG  
TAATGGTAAAAGAAAACAAGGAATCAAACACAAAATGTCTTATTCTGGGAGAGTGAAAACCTT  
CTGCCTTCAGAAGAACTGCTCTTTGGATAGGAACTGGAGGAGGCCATTTTTACTCCTGGATC  
TTTCAACTCGTCGACTTATACGTGTAATTTACAACCTTTTGTAAATTCGGTCAGAGTCATGATGACAG  
CACAGCTAGGAAGCCTTAAAAATGTCATGCTGGTATTGGGCTACAACCGGAAAATACTGAAGG  
TACACAAAAGCAGAAAGAGATACAATCTTGCTTGACCGTTTGGGACATCAATCTTCCACATGAA  
GTGCAAAATTTAGAAAACACATTGAAGTGAGAAAAGAAATTAGCTGAAAAAATGAGACGAACAT  
CTGTTGAGTAAGAGAGAAATAGGCGGCCCG

Amino Acid Sequence:

MDYKDDDDKGSMSAGSCQGCEEDEETLKKLIVRLNNVQEGKQIETLVQILEDLLVFTYSEHASKLFG  
GKNIHVPLLVDSYMRVASVQQVGSLLCKLIEVCPGTMQSLMGPQDVGNDEVLGVHQLILKMLT  
VHNASVNLVIGLKTLDLLTSGKITLLILDEESDIFMLIFDAMHSFPANDEVQKLGCKALHVLFERVSE  
EQLTEFVENKDYMILLSALTNFKDEEIVLHVLHCLHSLAIPCNNVEVLMMSGNVRRCYNIVVEAMKAFPM  
SERIQEVSCLLHRLTLGNFFNILVLNEVHEFVVKAVQQYPENAALQISALSCLALLTETIFLNQDLEEK  
NENQENDDEGEEDKLFWLEACYKALTWHRKNKHVQEAACWALNLLMYQNSLHEKIGDEDGHFPA  
HREVMLSMLMHSSSKEVFQASANALSTLLEQNVNFRKILLSKGIHLNVLELMQKHIHSPEVAESGCK  
MLNHLFEFSNTSLDIMA AVVPKIL TVMKRHETSLPVQLEALRAILHFIVPGMPEESREDETFHHKLN MV  
KKQCFKNDIHKLVLASLNRFIGNPGIQKCGLKVISSIVHFPDALEMLSLEGAMDSVLHTLQMYPPDDQEI  
QCLGLSLIGYLITKKNVFIGTGHLAKILVSSLYRFKDVAEIQTGKFQ TILAILKLSASF SKLLVHHSFDL  
VIFHQ MSSNIMEQKDQQLNLCCKCFK VAMDDYLKNV MLERACDQNSIMVECLLLL GADANQAK  
EGSSLICQVCEKESSPKLVELLNSGSREQDVRKALTISIGK GDSQIISLLRRRLALDVANNSICLGGFC  
IGKVEPSWLGPLFPDKTSNLRKQTNIASTLARMVIRYQMKSAVEEGTAGSDGNFSEDVLSKFDEWT  
FIPDSSMDSVFAQSDDL DSEGSEGSFLVKKKSNSISVGEFYRDAVLQRCS PNLQRHSNSLGPFDHED  
LLKRKRKILSSDDSLRSSKLQSHMRHSDSISSLASEREYITSLDLSANELRDIDALSQKCCISVHLEHL

EKLELHQNALTSFPQQLCETLKSLTHLDLHSNKFTSFPSYLLKMSCIANLDVSRNDIGPSVVLDP  
CPTLKQFNLSYNQLSFVPENLTDVVEKLEQLILEGNKISGICSPRLKELKILNLSKNHISSLS  
ENFLEA CPKVESFSARMNFLAAMPFLPPSMTILKLSQNKFSCICEAILNPLHLRSLDMSSNDIQYLP  
GPAHWKS LNLRELLFSHNQISILDSEKAYLWSRVEKHLHSHNKLKEIPPEIGCLENLTSLDVS  
YNLELRSFPNEM GKLSKIWDLPLDELHLNFDKFKHIGCKAKDIIRFLQQRLKKA  
VPYNRMKLMIVGNTGSGKTTLLQQLMK TKKSDLGMQSATVGDVVDWPIQIRDKRKR  
DLVNLVWDFAGREEFYSTHPHFMTRALYLAVYDLSK GQAEVDAMKPWLFNIKARASS  
SPVILVGTHLDVSDEKQRKACMSKITKELLNKRGFPAIRDYHFVNA TEESDALAKLRK  
TIINESLNFKIRDQLVVGQLIPDCYVELEKIILSERKNVPIEFPVIDRKRLQLVRENQ  
LQLDENELPHAVHFLNESGVLLHFQDPALQLSDLYFVEPKWLCKIMAQILTVKVEGCPK  
HPKGIISRR DVEKFLSKKRKFPKNYMTQYFKLLEKFQIALPIGEEYLLVPSSLS  
DHRPVIELPHCENSEIIIRLYEMPYF PMGFWSRLINRLLLEISPYMLSGRERALRPN  
RMYWRQGIYLNWSPEAYCLVGSEVLDNHPESFLKITV PSCRKGCILLGQVVDHIDSL  
MEEWFPGLLEIDICGEGETLLKKWALYSFNDGEEHQKILLDDLMKKAEGDLLVNP  
DQPRLTIPISQIAPDLILADLPRNIMLNDELEFEQAPEFLLGDGSFGSVYRAAYEGEE  
VA VKIFNKHTSLRLLRQELVVLCHLHHPSLISLLAAGIRPRMLVMELASKGSLDRLL  
QQDKASLTRTLQH RIALHVADGLRYLHSAMIYRDLKPHNVLLFTLYPNAIIAKIADY  
GIAQYCCRMGIKTSEGTGPFRAPE VARGNVIYNQQADVYSFGLLLYDILTTGGRIVE  
GLKFPNEFDELEIQGKLPDPVKEYGCAPWPMVEKLI KQCLKENPQERPTSAQVFDIL  
NSAELVCLTRRILLPKNVIVECMVATHHNSRNASIWLGCGHTDRGQL SFLDLNTEGY  
TSEEVADSRILCLALVHLPVEKESWIVSGTQSGTLLVINTEDGKKRHTLEKMTDSVTCL  
YCNSFSKQSKQKNFLLVGTADGKLAIFEDKTVKLKGAAPLKILNIGNVSTPLMCLSE  
STNSTERNVMW GCGGTKIFSFSNDFTIQKLIETRSQLFSYAAFSDSNITVVVDTALYI  
AKQNSPVVEVWDKTEKLCGLI DCVHFLREVMVKENKESKHKMSYSGRVKTLC  
LQKNTALWIGTGGGHILLDLSTRRLIRVIYNFCNSV RVMMTAQLGSLKNVMLV  
LGYNRKNTEGTQKQKEIQSCLTVWDINLPHEVQNLEKHIEVRKELAEKM  
RTSVE\*

Antibiotic:  
**Amp**

Comments:  
**2 silent mutations G1624 K1637 Grow at or below 30°C Contains SNP S1647T**

Price per aliquot:  
**£110.00**