



## LRRK2

Expressed:

**GFP LRRK2 D390N E391Q D392N**

Plasmid:

**pcDNA5 FRT/TO GFP LRRK2 D390N E391Q D392N**

Parent Plasmid:

**pcDNA5 FRT/TO GFP**

DU Number:

**DU62854**

Species:

**Human**

Synonyms:

Sequence of Insert:

**ATGGCTAGTGGCAGCTGTCAGGGGTGCGAAGAGGACGAGGAAACTCTGAAGAAGTTGATAGTC  
AGGCTGAACAATGTCCAGGAAGGAAAACAGATAGAAACGCTGGTCCAAATCCTGGAGGATCTG  
CTGGTGTTCACGTA CTCCGAGCACGCCTCCAAGTTATTTCAAGGCAAAAATATCCATGTGCCTCT  
GTTGATCGTCTTGGACTCCTATATGAGAGTCGCGAGTGTGCAGCAGGTGGGTTGGTCACTTCTGT  
GCAAATTAATAGAAGTCTGTCCAGGTACAATGCAAAGCTTAATGGGACCCAGGATGTTGGAAA  
TGATTGGGAAGTCCTTGGTGTTCACCAATTGATTCTTAAAATGCTAACAGTTCATAATGCCAGTG  
TAACTTGTCAAGTATTGGACTGAAGACCTTAGATCTCCTCCTAACTTCAGGTAATAATCACCTTG  
CTGATATTGGATGAAGAAAGTGATATTTTCATGTTAATTTTTGATGCCATGCACTCATTCCAGCC  
AATGATGAAGTCCAGAACTTGGATGCAAAGCTTTACATGTGCTGTTTGAGAGAGTCTCAGAGG  
AGCAACTGACTGAATTTGTTGAGAACAAGATTATATGATATTGTTAAGTGCCTAACAAATTTTA  
AAGATGAAGAGGAAATTGTGCTTCATGTGCTGCATTGTTTACATTCCCTAGCGATTCCCTTGCAAT  
AATGTGGAAGTCCTCATGAGTGGCAATGTCAGGTGTTATAATATTGTGGTGGAAAGCTATGAAAG  
CATTCCCTATGAGTGAAGAATTCAAGAAGTGAGTTGCTGTTTGCTCCATAGGCTTACATTAGGT  
AATTTTTCAATATCCTGGTATTAAACGAAGTCCATGAGTTTGTGGTGAAGCTGTGCAGCAGTA  
CCCAGAGAATGCAGCATTGCAGATCTCAGCGCTCAGCTGTTTGGCCCTCCTCACTGAGACTATTT  
TCTTAAATCAAGATTTAGAGGAAAAGAATGAGAATCAAGAGAATGATGATGAGGGGGAAGAAG  
ATAAATTGTTTTGGCTGGAAGCCTGTTACAAAGCATTACGTGGCATAGAAAGAACAAGCACGT  
GCAGGAGGCCGCATGCTGGGCACTAAATAATCTCCTTATGTACCAAACAGTTTACATGAGAAG  
ATTGAAATCAAAATGGCCATTTCCAGCTCATAGGGAAGTGATGCTCTCCATGCTGATGCATTC  
TTCATCAAAGGAAGTTTTCCAGGCATCTGCGAATGCATTGTCAACTCTCTTAGAACAAAATGTTA  
ATTCAGAAAAATACTGTTATCAAAGGAATACACCTGAATGTTTTGGAGTTAATGCAGAAGCAT  
ATACATTCTCCTGAAGTGGCTGAAAGTGGCTGTAAAATGCTAAATCATCTTTTTGAAGGAAGCAA  
CACTTCCCTGGATATAATGGCAGCAGTGGTCCCCAAAATACTAACAGTTATGAAACGTCATGAG  
ACATCATTACCAGTGCAGCTGGAGGCGCTTCGAGCTATTTTACATTTTATAGTGCCTGGCATGCC  
AGAAGAATCCAGGGAGGATACAGAATTTTCATCATAAGCTAAATATGGTTAAAAAACAGTGTTTC  
AAGAATGATATTCACAACTGGTCTAGCAGCTTTGAACAGGTTTCATTGGAAATCCTGGGATTCA  
GAAATGTGGATTAAGTAATTTCTTCTATTGTACATTTTCTGATGCATTAGAGATGTTATCCCT**

GGAAGGTGCTATGGATTCAGTGCTTCACACACTGCAGATGTATCCAGATGACCAAGAAATTCAG  
TGCTGGGTTTAAGTCTTATAGGATACTTGATTACAAAGAAGAATGTGTTTCATAGGAAGTGGACA  
TCTGCTGGCAAAAATTCTGGTTCCAGCTTATACCGATTTAAGGATGTTGCTGAAATACAGACTA  
AAGGATTCAGACAATCTTAGCAATCCTCAAATTGTCAGCATCTTTTTCTAAGCTGCTGGTGCATC  
ATTCATTTGACTTAGTAATATTCCATCAAATGTCTTCCAATATCATGGAACAAAAGGATCAACAGT  
TTCTAAACCTCTGTTGCAAGTGTTTTGCAAAAGTAGCTATGGATGATTACTTAAAAAATGTGATGC  
TAGAGAGAGCGTGTGATCAGAATAACAGCATCATGGTTGAATGCTTGCTTCTATTGGGAGCAGA  
TGCCAATCAAGCAAAGGAGGGATCTTCTTTAATTTGTCAGGTATGTGAGAAAGAGAGCAGTCCC  
AAATTGGTGGAACTCTTACTGAATAGTGGATCTCGTGAACAAGATGTACGAAAAGCGTTGACGA  
TAAGCATTGGGAAAGGTGACAGCCAGATCATCAGCTTGCTCTTAAGGAGGCTGGCCCTGGATGT  
GGCCAACAATAGCATTGCTTGGAGGATTTGTATAGGAAAAGTTGAACCTTCTTGCTTGGTC  
CTTTATTTCCAGATAAGACTTCTAATTTAAGGAAACAAACAAATATAGCATCTACACTAGCAAGA  
ATGGTGATCAGATATCAGATGAAAAGTGCTGTGGAAGAAGGAACAGCCTCAGGCAGCGATGGA  
AATTTTTCTGAAGATGTGCTGTCTAAATTTGATGAATGGACCTTTATTCCTGACTCTTCTATGGAC  
AGTGTGTTTGCTCAAAGTGATGACCTGGATAGTGAAGGAAGTGAAGGCTCATTCTTGTGAAAA  
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AAGAAAATACTATCTTCAGATGATTCAGGTCATCAAACTTCAATCCCATATGAGGCATT  
CAGACAGCATTCTTCTGCTTGGCTTCTGAGAGAGAATATATTACATCACTAGACCTTTCAGCAAAT  
GAACTAAGAGATATTGATGCCCTAAGCCAGAAATGCTGTATAAGTGTTCAATTTGGAGCATCTTGA  
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TCCAGAAGCAATTTTAAATCTTCCACACTTGGCGTCTTAGATATGAGCAGCAATGATATTCAGT  
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CTTCTTTGGATGAACTGCATCTTAACTTTGATTTTAAACATATAGGATGTAAAGCCAAAGACATC  
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ACCGAGGAATCTGATGCTTTGGCAAACTTCGGAAAACCATCATAAACGAGAGCCTTAATTTCA  
AGATCCGAGATCAGCTTGTGTTGGACAGCTGATTCCAGACTGCTATGTAGAAGTTGAAAAAATC  
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ACTAGTGAGAGAAAATCAGCTGCAGTTAGATGAAAATGAGCTTCTCACGCAGTTCACTTTCTAA  
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GAACCAAGTGGCTTTGTAAAATCATGGCACAGATTTGACAGTGAAAGTGGAAAGTTGTCCAA  
AACACCCTAAGGGAATTATTTGCGTAGAGATGTGGAAAATTTCTTTCAAAGAAAAGGAAATTT  
CCAAAGAACTACATGACACAGTATTTAAGCTCCTAGAAAATTCAGATTGCTTTGCCAATAGG  
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GTGAGAAGTCTGAAATTATCATCCGACTATATGAAATGCCTTATTTTCCAATGGGATTTTGGTCAA  
GATTAATCAATCGATTACTTGAGATTTACCTTACATGCTTTCAGGGAGAGAACGAGCACTTCGC  
CCAAACAGAATGTATTGGCGACAAGGCATTTACTTAAATTGGTCTCCTGAAGCTTATTGTCTGGT

AGGATCTGAAGTCTTAGACAATCATCCAGAGAGTTTCTTAAAAATTACAGTTCCTTCTTGTAGAA  
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GTTTTAATGATGGTGAAGAACATCAAAAAATCTTACTTGATGACTTGATGAAGAAAGCAGAGGA  
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GCTCCAGAGTTTCTCCTAGGTGATGGCAGTTTTGGATCAGTTTACCGAGCAGCCTATGAAGGAG  
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GTGCTTTGCCACCTCCACCACCCAGTTTGATATCTTTGCTGGCAGCTGGGATTCGTCCCGGAT  
GTTGGTGTGGAGTTAGCCTCCAAGGGTTCCTTGGATCGCCTGCTTCAGCAGGACAAAGCCAGC  
CTCACTAGAACCCTACAGCACAGGATTGCACTCCACGTAGCTGATGGTTTGAGATACCTCCACT  
CAGCCATGATTATATACCGAGACCTGAAACCCACAATGTGCTGCTTTTCACTGTATCCCAAT  
GCTGCCATCATTGCAAAGATTGCTGACTACGGCATTGCTCAGTACTGCTGTAGAATGGGGATAA  
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CCAACAGGCTGATGTTTATTCATTTGGTTTACTACTCTATGACATTTTGACAACCTGGAGGTAGAAT  
AGTAGAGGGTTTGAAGTTTCCAATGAGTTTGTGAATTAGAAATACAAGGAAAATTACCTGATC  
CAGTTAAAGAATATGGTTGTGCCCATGGCCTATGGTTGAGAAATTAATTAACAGTGTGTTGAAA  
GAAAATCCTCAAGAAAGGCCTACTTCTGCCCAGGTCTTTGACATTTTGAATTCAGCTGAATTAGT  
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ACAACAGCAGGAATGCAAGCATTGGCTGGGCTGTGGGCACACCCGACAGAGGACAGCTCTCAT  
TTCTTGACTTAAATACTGAAGGATACACTTCTGAGGAAGTTGCTGATAGTAGAATATTGTGCTTA  
GCCTTGGTGCATCTTCTGTTGAAAAGGAAAGCTGGATTGTGTCTGGGACACAGTCTGGTACTCT  
CCTGGTCATCAATACCGAAGATGGGAAAAGAGACATACCCTAGAAAAGATGACTGATTCTGTC  
ACTTGTGTTGATTGCAATTCCTTTTCCAAGCAAAGCAAACAAAAAATTTTCTTTTGGTTGGAACC  
GCTGATGGCAAGTTAGCAATTTTGAAGATAAGACTGTTAAGCTTAAAGGAGCTGCTCCTTTGAA  
GATACTAAATATAGGAAATGTCAGTACTCCATTGATGTGTTGAGTGAATCCACAAATCAACGG  
AAAGAAATGTAATGTGGGGAGGATGTGGCACAAAGATTTTCTCCTTTTCTAATGATTTACCATT  
CAGAAACTCATTGAGACAAGAACAAGCCAACCTGTTTTCTTATGCAGCTTTCAGTGATTCCAACAT  
CATAACAGTGGTGGTAGACACTGCTCTCTATATTGCTAAGCAAATAGCCCTGTTGTGGAAGTGT  
GGGATAAGAAAACCTGAAAACCTCTGTGGACTAATAGACTGCGTGCACCTTTTAAAGGGAGGTAAT  
GGTAAAAGAAAACAAGGAATCAAAACACAAAATGTCTTATTCTGGGAGAGTGAAAACCCTCTGC  
CTTCAGAAGAACACTGCTCTTTGGATAGGAACTGGAGGAGGCCATATTTTACTCCTGGATCTTTC  
AACTCGTGCACCTTATACGTGTAATTTACAACCTTTTGAATTCGGTCAGAGTCATGATGACAGCAC  
AGCTAGGAAGCCTTAAAATGTCATGCTGGTATTGGGCTACAACCGGAAAATACTGAAGGTAC  
ACAAAAGCAGAAAGAGATACAATCTTGCTTGACCGTTTGGGACATCAATCTTCCACATGAAGTG  
CAAAATTTAGAAAACACATTGAAGTGAGAAAAGAATTAGCTGAAAAAATGAGACGAACATCTG  
TTGAGTAAGAGAGAAATAGGCGGCCCG

Amino Acid Sequence:

MVSKGEELFTGVVPIVVELDGDVNGHKFSVSGEGEGDATYGKLTCLKFICTTGKLPVPWPTLVTTLTYG  
VQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAIEVKFEGDTLVNRIELKIDFKEDG  
NILGHKLEYNYNVSHNYIMADKQKNGIKVNFKIRHNIEDGSVQLADHYQQNTPIGDGPVLLPDNHVLS  
QSALSKDPNEKRDHMLLEFVTAAGITLGMDELYKSGLGSMASGSCQGCEEDEETLKKLIVRLNNVQ  
EGKQIETLVQILEDLLVFTYSEHASKLFQGNHIVPLLVLDVSYMRVASVQQVGSLLCKLIEVCPGTM  
QSLMGPQDVGNDWEVLGVHQLILKMLTVHNASVNLVIGLKTLDLLTSGKITLLILDEESDIFMLIFDA  
MHSFPANDEVQKLGCKALHVLFRVSEEQLTEFVENKDYMILLSALTNFKDEEEIVLHVHLHCLHSLAIP  
CNNVEVLMMSGNVRCYNIVVEAMKAFPMSERIQEVSCLLHRLTLGNFFNILVLNEVHEFVVKAVQQYP  
ENAALQISALSCLALLTETIFLNQDLEEKNNQENDDEGEEDKLFWLEACYKALTWHRKNKHVQEA  
CWALNLLMYQNSLHEKIGNQNGHFPAHREVMLSMLMHSSSKEVFQASANALSTLLEQNVNFRKIL  
LSKGIHLNVLELMQKHIHSPEVAESGCKMLNHLFEQSNTSLDIMA AVVPKILTVMKRHETSLPVQLEA  
LRAILHFIVPGMPEESREDTEFHHLNMVKKQCFKNDIHKLVLAALNRFIGNPGIQKCGLVKVISSIVHFP  
DALEMLSLEGAMDSVLHTLQMYPPDQEIQLGLSLIGYLITKKNVFIGTGHELLAKILVSSLYRFKDVAEI  
QTKGFQTLAILKLSASFLLVHHSFDLVIFHQMSNIMEQKQFLNLCKCFKAVAMDDYLKNVM  
LERACDQNSIMVECLLLGADANQAKEGSSLICQVCEKESPKLVLLLNSGSREQDVRKALTISIG

KGDSQIISLLLRRRLALDVANNSICLGGFCIGKVEPSWLGPLFPDKTSNLRKQTNIASLARMVIRYQMK  
SAVEEGTASGSDGNFSEDVLSKFDEWTFIPDSSMDSVFAQSDDL DSEGSEGSFLVKKKSNSISVGEF  
YRDAVLQRCSPNLQRHSNSLGPIFDHEDLLKRKRKILSSDDSLRSSKLQSHMRHSDSISLASEREYI  
TSLDLSANELRDIDALSQKCCISVHLEHLEKLELHQNALTSFPQQLCETLKSLTHLDLHSNKFTSFPSY  
LLKMSCIANLDVSRNDIGPSVVDPTVKCPTLKQFNLSYNQLSFVPENLTDVVEKLEQLILEGNKISGIC  
SPLRLKELKILNLSKNHISSLENFLEACPKEVESFSARMNFLAAMPFLPPSMTILKLSQNKFCIPEAIL  
NLPHLRSLDMSSNDIQYLPGPAHWKSLNLRELLFSHNQISILDSEKAYLWSRVEKLHLSHNKLKEIP  
PEIGCLENLTSLDVSYNLELRSFPNEMGKLSKIWDLPDELHNLNDFDKHIGCKAKDIIRFLQQRLKAV  
PYNRMKLMIVGNTGSGKTTLLQQLMKTKKSDLGMQSATVGDVVDWPIQIRDKRKRDLVLNVWDF  
GREEFYSTHPHMTQRALYLAVYDLSKGQAEVDAMKPWLFNIKARASSPVLVGTDLVSDSEKQRK  
ACMSKITKELLNKRGFPAIRDYHFVNATEESDALAKLRKTIINESLNFKIRDQLVVGQLIPDCYVELEKII  
LSERKNVPIEFPVIDRKLLQLVRENQLQDENELPHAVHFLNESGVLLHFQDPALQLSDLYFVEPKW  
LCKIMAQILTVKVEGCPKHPKGIISRRDVEKFLSKKRKFPKNYMTQYFKLLEKFQIALPIGEEYLLVPSS  
LSDHRPVIELPHCENSEIIIRLYEMPYFPMGFWSRLINRLEISPYMLSGRERALRPNRMYWRQGIYLN  
WSPEAYCLVGSEVLDNHPESFLKITVPSCKGKILLGQVVDHIDSLMEEFPGLEIDICGEGETLLKK  
WALYSFNDGEEHQKILLDDLMMKKAEEGDLLVNPDPRLTIPISQIAPDLILADLPRNIMLNDELEFEQ  
APEFLLGDGSFGSVYRAAYEGEEVAVKIFNKHTSLRLLRQELVVLCHLHHPSLISLLAAGIRPRMLVM  
ELASKGSLDRLLQQDKASLTRLQHRIALHVADGLRYLHSAMIIYRDLKPHNVLLFTLYPNAIIAKIAD  
YGIAQYCCRMGIKTSEGTPGFRAPEVARGNVIYNQQADVVSFGLLLYDILTGGRIVEGLKFPNEFDEL  
EIQGKLPDPVKEYGCAPWPMVEKLIKQCLKENPQERPTSAQVFDILNSAELVCLTRRILLPKNVIVEC  
MVATHHNSRNASIWLGCGHTRGQLSFLDLNTEGYTSEEVADSRILCLALVHLPVEKESWIVSGTQS  
GTLVINTEDGKKRHTLEKMTDSVTCLYCNFSKQSKQKNFLLVGTADGKLAIFEDKTVKLGKAAPL  
KILNIGNVSTPLMCLSESTNSTERNVMWGGCGTKIFSFSNDFTIQKLIETRTSQLFSYAAFSDSNIITVVV  
DTALYIAKQNSPVVEVWDKKTCLKGLIDCVHFLREVMVKENKESKHKMSYSGRVKTLCLQKNTAL  
WIGTGGGHILLDLSTRRLIRVIYNFCNSVRVMMTAQLGSLKNVMLVLYGNRKNTEGTQKQKEIQSCL  
TVWDINLPHEVQNLEKHIEVRKELAEKMRRTSVE\*

Antibiotic:

**Amp**

Comments:

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

Price per aliquot:

**£110.00**