

ASK2J00170_LRRK2_I2020T_D02_BB

CAGTGCCTGGGGCATAGAAGCCAAGCAGTGTATGCAACTTTCCTTCTCTTCTTTCTCTTCTGAAATGCTATGAATATGCCTTTTA HبНبН GTCACGGACCCCGTATCTTCGGTTCGTCACATACGTTGAAAGGAAGAGAAGAAAGAGAAGACTTTACGATACTTATACGGAAAAT

| $\square$ |
| :---: |
| LRRK2 |

GGTAGTATCCAGAAATGTTCCTTCCTGAAAGGGTCCAGAAACTACTGAAAACTGTACAGATTATGAAATGAAACAGGGTGCAGGG
 CCATCATAGGTCTTTACAAGGAAGGACTTTCCCAGGTCTTTGATGACTTTTGACATGTCTAATACTTTACTTTGTCCCACGTCCC

| LRRK2 |
| :--- |
| LRRK2-201 |

TAAACCTAAACTCAACTACAAAGACGAAAACTTGTGGTCCCCCTTAGAACCCAATGTAATTAGATCCATTTCACGTCTTATCAGA

| LRRK2 |
| :--- |
| LRRK2-201 |

CCTGTATTTCAGTGCCCTCTTTCCTTCATTTAACTAACTCTAGGTTCTAGTTTTTCCCTAATTCTTCCACAAATCCCCAAAGTGT
 GGACATAAAGTCACGGGAGAAAGGAAGTAAATTGATTGAGATCCAAGATCAAAAAGGGATTAAGAAGGTGTTTAGGGGTTTCACA

| LRRK2 |
| ---: |
| LRRK2-201 |

TTATTTATAAAGTGAAGAATTGCTATTTTTTAACACTGTTCGAAACACCTTATCTCTAAAATGACTTATTCTAGTTCTCTGAAAC
 AATAAATATTTCACTTCTTAACGATAAAAAATTGTGACAAGCTTTGTGGAATAGAGATTTTACTGAATAAGATCAAGAGACTTTG

| LRRK2 |
| ---: |
| LRRK2-201 |

CTTACTTTAAATAACAAATCCAGCAGTTTCTGATGAAGTAAATGAAATGTCAGCATATTTTAAAATAATTTGCCTAATTTGTTCT
 GAATGAAATTTATTGTTTAGGTCGTCAAAGACTACTTCATTTACTTTACAGTCGTATAAAATTTTATTAAACGGATTAAACAAGA


ATCGTATTACGGTCTTTTCGAAAGACCTAAAACATAGTGTTTTCCGATCATCTAAAGTCATCGATAGTTAGAAGATGGTCGTGAT

| LRRK2 |
| ---: |
| LRRK2-201 |

AGTATATTTTAAAAACTCAGCATTAAGGTTTATTTTTCCAAGTATGTTTCAGCACAGGAAATAAAATCATGCTCCTTTGGAGTCC
 TCATATAAAATTTTTGAGTCGTAATTCCAAATAAAAAGGTTCATACAAAGTCGTGTCCTTTATTTTAGTACGAGGAAACCTCAGG

| LRRK2 |
| ---: |
| LRRK2-201 |

CTTAAATGCTGGAGCTGTTTAGAGTGACATACAAGAACTTTCTTCACGTTACATGCTCTCTCTTCCTCCATCTTGCTTTTAACTG
 GAATTTACGACCTCGACAAATCTCACTGTATGTTCTTGAAAGAAGTGCAATGTACGAGAGAGAAGGAGGTAGAACGAAAATTGAC

| LRRK2 |
| ---: |
| LRRK2-201 |

TTAGCTTACTTCTCCAATTCAATCCACTTCGTTTGAACTCTTTATCATAATTCTATAAAACTTATGAAAATACAGTCAACTGCAT
 AATCGAATGAAGAGGTTAAGTTAGGTGAAGCAAACTTGAGAAATAGTATTAAGATATTTTGAATACTTTTATGTCAGTTGACGTA

LRRK2
LRRK2-201

TTTCTGTATGTTTCTGTGTTTCAATATCTTCAAAATGGAATGTACTGCCTTGGTACATCACCCACTATGAATCTGTTATTTCTGT
 AAAGACATACAAAGACACAAAGTTATAGAAGTTTTACCTTACATGACGGAACCATGTAGTGGGTGATACTTAGACAATAAAGACA

| LRRK2 |
| ---: |
| LRRK2-201 |

TATATCCCACAGTTGCCAGGCCAGGATACTTGTCCCATCCAGGCCAAACACCTTCCCCCGAAAGCAAGTATGCATTTGTCCACCA
 ATATAGGGTGTCAACGGTCCGGTCCTATGAACAGGGTAGGTCCGGTTTGTGGAAGGGGGCTTTCGTTCATACGTAAACAGGTGGT


CCAGGAACTGAGATAAAATGTAATAGAAAAATCAGTTAAGTAAATAAAAATACGGTGAGGACGACAGAACCAAGTCATACAGGTC


GGAATTATCAGAATTTCTTTTCTAAAATAAAAATCTGTTTATGCTTGCAATTCCTTGACAGTTCTCAATTATCTGCAAAGTGCAT
 CCTTAATAGTCTTAAAGAAAAGATTTTATTTTTAGACAAATACGAACGTTAAGGAACTGTCAAGAGTTAATAGACGTTTCACGTA

| LRRK2 |
| ---: |
| LRRK2-201 |

CCAAACTTCTTGGCATAGCATCAAAGATCTTTCTGTATGCCTCTTGCTTCCCTTTGCGGCCCCTGCCACCCCACTGCCCACACTG
 GGTTTGAAGAACCGTATCGTAGTTTCTAGAAAGACATACGGAGAACGAAGGGAAACGCCGGGGACGGTGGGGTGACGGGTGTGAC

| LRRK2 |
| ---: |
| LRRK2-201 |

AGTTGTCTGCCTAGAGAGCTCATTTTCCTTAAGAATTTCTTCACAAACCATCTCTACTATGAAGCTCAAGTGTGTCATGAAGTGT ب+ TCAACAGACGGATCTCTCGAGTAAAAGGAATTCTTAAAGAAGTGTTTGGTAGAGATGATACTTCGAGTTCACACAGTACTTCACA

| LRRK2 |
| :--- |
| LRRK2-201 |

TAGCTTCTCCAACTTGTGTTTCTTGCAGACACTCTGTGCAAGACATTGACTTAGGTGCTAAAGAGGGAAAGCTAGATATTATATT
 ATCGAAGAGGTTGAACACAAAGAACGTCTGTGAGACACGTTCTGTAACTGAATCCACGATTTCTCCCTTTCGATCTATAATATAA

| LRRK2 |
| ---: |
| LRRK2-201 |

GTtCTTGAGGTTGAAAGCTTACAGTCTAGTAGGAGAGTCAACTTTGCTGTCTTTACCTCAGTGTTTTTCTCCCTCTGTGCTTCCC
 CAAGAACTCCAACTTTCGAATGTCAGATCATCCTCTCAGTTGAAACGACAGAAATGGAGTCACAAAAAGAGGGAGACACGAAGGG

| LRRK2 |
| ---: |
| LRRK2-201 |

TAGCACGTGGTACTTACATATTTCTGGAATCTTGATTAAACACCTGTTTGAGGACTGTCTGAGCACAATCCTTCTGGATTGTGAC
 ATCGTGCACCATGAATGTATAAAGACCTTAGAACTAATTTGTGGACAAACTCCTGACAGACTCGTGTTAGGAAGACCTAACACTG

LRRK2

ACCCTCAAGGGAGCAGAGATACAAAGATGGCTTTGTATACTAAATGACTGGCCCTCATAGATACCTAGTACATATTTGTCAAATA
 TGGGAGTTCCCTCGTCTCTATGTTTCTACCGAAACATATGATTTACTGACCGGGAGTATCTATGGATCATGTATAAACAGTTTAT

| LRRK2 |
| :--- |
| LRRK2-201 |
| AATGAATGCATTCTATTTTTGGAATAATTCTATTCAGAATCAGATAAAGTTTACTTTAAGCTATGAAGAAAGAAGTCTCTTAGCA |
| TTACTTACGTAAGATAAAAACCTTATTAAGATAAGTCTTAGTCTATTTCAAATGAAATTCGATACTTCTTTCTTCAGAGAATCGT |
| LRRK2 |

ACTCTTACAATAATCACAATCAAAGAATGACTGTTTAACTTAATATAAACCAGTTTGTTTTAATAAAATATTTGACAATAGTCAT ب- ب TGAGAATGTTATTAGTGTTAGTTTCTTACTGACAAATTGAATTATATTTGGTCAAACAAAATTATTTTATAAACTGTTATCAGTA

| LRRK2 |
| ---: |
| LRRK2-201 |

GGTTACACAATGCATAAATTATGGCTAAATTATTATCAGGAAGGAAAAATCTTTACTTATTATTTCAAAAGCTATTTTGCTAGTC
 CCAATGTGTTACGTATTTAATACCGATTTAATAATAGTCCTTCCTTTTTAGAAATGAATAATAAAGTTTTCGATAAAACGATCAG

| LRRK2 |
| ---: |
| LRRK2-201 |

TATTAAAAGCTATTAGAACTGCACTTCTTAAGATTAAATTCTATAATTGAACATTTTAACTAACCAAGATATTATCTCTTTGCCA
 ATAATTTTCGATAATCTTGACGTGAAGAATTCTAATTTAAGATATTAACTTGTAAAATTGATTGGTTCTATAATAGAGAAACGGT

| LRRK2 |
| ---: |
| LRRK2-201 |

CTGACATTATTTCAAATTAAGCTTAACTATTTCTTTTTAGCCTTTGGAAAGTATTCTGAAAGAGTCTGTGTTCTATAAATATACT
 GACTGTAATAAAGTTTAATTCGAATTGATAAAGAAAAATCGGAAACCTTTCATAAGACTTTCTCAGACACAAGATATTTATATGA


TAAAGAGGCATGTCTTATAAAGGATTTGGATACTATTCAATGATGTATGACTTGGCTTTAGCTTTTTTATTCTTAATCTCTCAGC

ATTTCTCCGTACAGAATATTTCCTAAACCTATGATAAGTTACTACATACTGAACCGAAATCGAAAAAATAAGAATTAGAGAGTCG

| LRRK2 |
| ---: |
| LRRK2-201 |

TTTTCTCTTCAGCAGGGGAAGAGTACCTAATGGCCTTTCAGTAATCCCTTGGTAAATTTTTCTTTCAAGCCCATTACTTACTGTG
 AAAAGAGAAGTCGTCCCCTTCTCATGGATTACCGGAAAGTCATTAGGGAACCATTTAAAAAGAAAGTTCGGGTAATGAATGACAC

| LRRK2 |
| ---: |
| LRRK2-201 |

AAGGTCAACTTCATTAGTGTATTTATCTTATTTTTTTCAGCCCAAAATAGGTATATTGAAATGAATGGGCCTAATGTCAAATGTC
 TTCCAGTTGAAGTAATCACATAAATAGAATAAAAAAAGTCGGGTTTTATCCATATAACTTTACTTACCCGGATTACAGTTTACAG

| LRRK2 |
| ---: |
| LRRK2-201 |


| LRRK2 |
| :---: |
| LRRK2-201 |
| TATAATGTGAGCCAAAACCAACAGTCACGAATAAGCAAAGGATTTAAATTTAACTCCATTAAGTCTTGTGAGAAATTATTTTCAA |
| HTATTACACTCGGTTTTGGTTGTCAGTGCTTATTCGTTTCCTAAATTTAAATTGAGGTAATTCAGAACACTCTTTAATAAAAGTT |
| LRRK2 |

CATAGGTTATAACATACCTGTGACATCACATGAAATGCTGTAGTCAATTTGACATCATGGGGCAGAGAAGACAGAGTTGGAAATC
 GTATCCAATATTGTATGGACACTGTAGTGTACTTTACGACATCAGTTAAACTGTAGTACCCCGTCTCTTCTGTCTCAACCTTTAG

| LRRK2 |
| ---: |
| LRRK2-201 |

AGAATTTTATAGACATCTAATGTGATAATAACATTAGTAGCTGAGATGCGGTAAGCTCTTTGACCATGTTTCCAGAATGGATAAG
 TCTTAAAATATCTGTAGATTACACTATTATTGTAATCATCGACTCTACGCCATTCGAGAAACTGGTACAAAGGTCTTACCTATTC

| LRRK2 |
| ---: |
| LRRK2-201 |

ACCTGGTTGAGATGAAAACTTTACACTGTTTTTTTATATTAACTATCTTTTACTCTTTGCCTGAAATGTCCAACTCTAGTTGCTC
 TGGACCAACTCTACTTTTGAAATGTGACAAAAAAATATAATTGATAGAAAATGAGAAACGGACTTTACAGGTTGAGATCAACGAG

| LRRK2 |
| :--- |
| GTGATTGCGTGGGTCAGTCTCCAGAAGGTTGGACTTTAATATTACCCGTCATCTTTTCCAAGACAAAATTGTATTCATTCTAACT |
| CACTAACGCACCCAGTCAGAGGTCTTCCAACCTGAAATTATAATGGGCAGTAGAAAAGGTTCTGTTTTAACATAAGTAAGATTGA |
| CAR |

CTTAGCCCCAAATTTTCTTTTTTAACCTTAATATCTAACATGATTAGGTTTATGGTAAATTATATACTCAAACAGAAGAAGAGAC

GAATCGGGGTTTAAAAGAAAAAATTGGAATTATAGATTGTACTAATCCAAATACCATTTAATATATGAGTTTGTCTTCTTCTCTG

| LRRK2 |
| ---: |
| LRRK2-201 |

TAATAGCAAGCAAAAGTCTTATATTTTCATTTGTTTTCATCCAAAAAGTAGAAAATATTTTCCAAACATTGGGAAACATTTTAGT
 ATTATCGTTCGTTTTCAGAATATAAAAGTAAACAAAAGTAGGTTTTTCATCTTTTATAAAAGGTTTGTAACCCTTTGTAAAATCA

| LRRK2 |
| ---: |
| LRRK2-201 |

PCR Forward Primer
aagctgagctaaacctctatgtgg

CAGAAAAATAAATATCAATGATAAATAGAATAGAGAAAAATTTTAAAGCTGAGCTAAACCTCTATGTGGTTTTAGGAAAATCAAA
 GTCTTTTTATTTATAGTTACTATTTATCTTATCTCTTTTTAAAATTTCGACTCGATTTGGAGATACACCAAAATCCTTTTAGTTT


TGATCATTGAGAGAATTCAGAATTGCCTTTAAGTAATTGTTCACATATACAAAAGAAAAGTCTCCAAAAATTGGGTCTTTGCCTG
 ACTAGTAACTCTCTTAAGTCTTAACGGAAATTCATTAACAAGTGTATATGTTTTCTTTTCAGAGGTTTTTAACCCAGAAACGGAC

| LRRK2 |
| ---: |
| LRRK2-201 |

AGATAGATTTGTCTTAAAATTGAAATCATTCACTTATCAGATTTGACCCTTTTTTAAAGCATAACTTTGCTGTGTAATATTAGAC
 TCTATCTAAACAGAATTTTAACTTTAGTAAGTGAATAGTCTAAACTGGGAAAAAATTTCGTATTGAAACGACACATTATAATCTG

Sanger Sequencing Primer
aagggacaaagtgagcacag

TTATATGTTTTGATTTCCTTCTACAATATCTCTTAACTTTAAGGGACAAAGTGAGCACAGAATTTTTGATGCTTGACATAGTGGA
 AATATACAAAACTAAAGGAAGATGTTATAGAGAATTGAAATTCCCTGTTTCACTCGTGTCTTAAAAACTACGAACTGTATCACCT


CATTTATATTTAAGGAAATTAGGACAAAAATTATTATAATGTAATCACATTTGAATAAGATTTCCTGTGCATTTTCTGGCAGATA
 GTAAATATAAATTCCTTTAATCCTGTTTTTAATAATATTACATTAGTGTAAACTTATTCTAAAGGACACGTAAAAGACCGTCTAT




GTCTGTCTCATAATTCTATCTTCAGGATGGATAACCACTGACCTCAGATGTGAGTTCAGAAGAGTCAAAAGGAAAACAGAGTCTA
 CAGACAGAGTATTAAGATAGAAGTCCTACCTATTGGTGACTGGAGTCTACACTCAAGTCTTCTCAGTTTTCCTTTTGTCTCAGAT

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| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | LRRK2-201 |  |  |  |  |  |

TCACATTGTGAACAGAGGTTTATTTTGTGAAAAAATGCAAGCATCACATTGTGATTTTTATCATTGTATTTTGTAGGAAAAAAAC
 AGTGTAACACTTGTCTCCAAATAAAACACTTTTTTACGTTCGTAGTGTAACACTAAAAATAGTAACATAAAACATCCTTTTTTTG


AATTGATGTAATTTTTCAGGGCAAAAACTGAATAAAAAGAAGAGAATGTTTGATATCAAGTTATATGTTTTAAAGTTAGATTTGT
 TTAACTACATTAAAAAGTCCCGTTTTTGACTTATTTTTCTTCTCTTACAAACTATAGTTCAATATACAAAATTTCAATCTAAACA

| LRRK2 |
| :--- |
| LRRK2-201 |

AGATTCTTTAGATACTCTAGAGGTCATAAAAAGTAACAGCAAAAACTTTAGTCTAGGTATTGTTGGCACTTGTGAGGCAAATCAA
 TCTAAGAAATCTATGAGATCTCCAGTATTTTTCATTGTCGTTTTTGAAATCAGATCCATAACAACCGTGAACACTCCGTTTAGTT

 TAAGTCCAGGTGTTTAAGAAAAAGTATTAAGACTTTGGGTTTCTTGAGACTTTTAGGGTTCTAAAAAATTTTTTACTGATTAAAC


## taa

PCR Reverse Primer

GTGTCAAAACCTAAGCAAGCTGACTTGTTGCTTATTACAATCTTTATTTCTCATGCTCAGTGTGAATATGCATACATTTTGCTGC
 CACAGTTTTGGATTCGTTCGACTGAACAACGAATAATGTTAGAAATAAAGAGTACGAGTCACACTTATACGTATGTAAAACGACG

 + + + + $+\boldsymbol{+} \boldsymbol{+}$ ACTCGTCCTTCATTTAGTAAATCCCCAACCGTAAACAAACCTCACACCCCTTGTGAGATAGAAATCCCTTTGAAATATATCAATC


TTATTTGTAAGTAAAATTACAGGTGGCTATACATCATCTTGCTGATTGCAACTCAATTAAATCACCGTGCCTGGCACAGAAGAAA + $+\boldsymbol{+}$ AATAAACATTCATTTTAATGTCCACCGATATGTAGTAGAACGACTAACGTTGAGTTAATTTAGTGGCACGGACCGTGTCTTCTTT

| LRRK2 |
| :--- |
| LRRK2-201 |$>$

 + $+\boldsymbol{+}+\boldsymbol{+}$ tatacgatgicctatagagtgatcccttttccangatcangcanaggacgcgtgagttgaanacatgantctattcgtttaccge

| $\square$ |
| ---: |
| LRRK2 |
| LRRK2-201 |

CCAGATtCCAATGCCTGGTTTTATTTTTGCTCCAAATACATATATACTCTTTTGTTTTGGATAGTTACATTTTAGAAGTAGACTG
 GGTCTAAGGTTACGGACCAAAATAAAAACGAGGTTTATGTATATATGAGAAAACAAAACCTATCAATGTAAAATCTTCATCTGAC


TGTATTCTCATAAACACTTCAAAGTGTATGTTCTGGCTGAGAGTGTCTCTGTGTTGTTCAATAATAATAAGACTAATTATCATTT

ACATAAGAGTATTTGTGAAGTTTCACATACAAGACCGACTCTCACAGAGACACAACAAGTTATTATTATTCTGATTAATAGTAAA

| LRRK2 |
| :--- |
| LRRK2-201 |

TTTGAGTACCTGCTGTGCGTCAGGCCCAGTGCCACGTATATTAGAGACAAGATCTCTTATCCTCATGCCAGGGCTGGAAGTTAGC
 AAACTCATGGACGACACGCAGTCCGGGTCACGGTGCATATAATCTCTGTTCTAGAGAATAGGAGTACGGTCCCGACCTTCAATCG

| LRRK2 |
| ---: |
| LRRK2-201 |

TATTAGTTTCTCATTTGCCAAATGAGAAAACTGAGGCTCAGGGAGATTATGTAACTTGCAGAATATCACTCAGTAATTGGCCAAG
 ATAATCAAAGAGTAAACGGTTTACTCTTTTGACTCCGAGTCCCTCTAATACATTGAACGTCTTATAGTGAGTCATTAACCGGTTC

| LRRK2 |
| ---: |
| LRRK2-201 |

ATAAGAATTCAGTCTAAATGAGAACCAGATCCAGAGATATTTGGCTTTAAATTCTATAGTCTCTCCTAAACCATATGCAACTCTA


| LRRK2 |
| :--- |
| LRRK2-201 |
| GGTTTGGAAAAACAGTCTTAAAGGATGAAATTCCATAGACCTGATATATTTCCACCTGGAAAAAGTGGGCATGGGACAGTGATTT |
| CCAAACCTTTTTGTCAGAATTTCCTACTTTAAGGTATCTGGACTATATAAAGGTGGACCTTTTTCACCCGTACCCTGTCACTAAA |
| LRRK2 |

TCTCTTGAAAGATCTGCTCATTTTTGTCATGGGACATGAAGGTGGACTGGACCACTCAGTTTCTTCTTTCTGCATCTCCCAACCC

AGAGAACTTTCTAGACGAGTAAAAACAGTACCCTGTACTTCCACCTGACCTGGTGAGTCAAAGAAGAAAGACGTAGAGGGTTGGG

| LRRK2 |
| :--- |
| LRRK2-201 |

AGTCTTTCTGTTCATGGGGTGAAAATCTGTTGTTGAAGCCTTGTCTGCTTAATTGGACAGTGGATCTCTCGGGTCCCTGTGGGCT
 TCAGAAAGACAAGTACCCCACTTTTAGACAACAACTTCGGAACAGACGAATTAACCTGTCACCTAGAGAGCCCAGGGACACCCGA

| LRRK2 |
| ---: |
| LRRK2-201 |

GTGCGCTTGTACTTGAGCTCTGCTTCTTCACTCTGTGGTCTAGGCCAGCTAGCAGCCAGCTGAGTTCACCTTGGTTCAGACTCAT
 CACGCGAACATGAACTCGAGACGAAGAAGTGAGACACCAGATCCGGTCGATCGTCGGTCGACTCAAGTGGAACCAAGTCTGAGTA

| LRRK2 |
| ---: |
| LRRK2-201 |

GGCCTTTCATTTTCAGTATCTGACTTCCTGGTTTTGCTGAAAACCTGTCTAAAATGTAATATCCATCTGATTCTTCATACCAAGC
 CCGGAAAGTAAAAGTCATAGACTGAAGGACCAAAACGACTTTTGGACAGATTTTACATTATAGGTAGACTAAGAAGTATGGTTCG

| LRRK2 |
| ---: |
| LRRK2-201 |

CACACAATTCTTCCTGATCCCTTTTAATCTCCAATATTGAATGGTGGTAACATAAATATGGAGACAGATCATGTCAGAAACCCAG

 GTGTGTTAAGAAGGACTAGGGAAAATTAGAGGTTATAACTTACCACCATTGTATTTATACCTCTGTCTAGTACAGTCTTTGGGTC | LRRK2 |
| :--- |
| LRRK2-201 | GGCCTAATCTTTTCTTTTCTGCCTACTCTTCTCACAGGCTGCTTAGTACTTTGTAAGCTTTTTTTTTTTTTCTGGCTGTAACCTA

 CCGGATTAGAAAAGAAAAGACGGATGAGAAGAGTGTCCGACGAATCATGAAACATTCGAAAAAAAAAAAAAGACCGACATTGGAT

| LRRK2 |
| ---: |
| LRRK2-201 |

GATtтtctctttatcattactctatttattattgttagagcacttctgattatctcagccctanactctgcctccaittttanat
 CTAAAAGAGAAATAGTAATGAGATAAATAATAACAATCTCGTGAAGACTAATAGAGTCGGGATTTGAGACGGAGGTTAAAATTTA LRRK2

| LRRK2 |
| ---: |
| LRRK2-201 |

AACAATAACTCCCACTCCTGCTAATACTGCTACTACTACTACCATCACCAAACTTTTTCTTCCCCAAAGCAGTTCTGTTTGGGAA


| GGAAACAGTTCCCTCTCATACAATTTCAG <br>  | CTTCTTGTCTTTTCCGTTTAATGAATCTTCCTGTTAATGTTACATCTTTTAA <br> GAAGAACAGAAAAGGCAAATTACTTAGAAGGACAATTACAATGTAGAAAATT | 6205 |
| :---: | :---: | :---: |
| LRRK2 |  |  |
| LRRK2-201 |  |  |
| CATGGAAACTTCTAGAGAAACAAAAGACGAT <br>  GTACCTTTGAAGATCTCTTTGTTTTCTGC | att taAACAATTTGGAAAACCCACATAAAAATATGATTGAGAATGACGTCGCACA $\qquad$ | 6290 |
| LRRK2 |  |  |
| LRRK2-201 |  |  |
| GCATTATGAGTGTAGGTCCATTACGGCTGTATTAGGAGCAGAACCTTCCAGAGCATGAGCGATGTGCTGGGCTTGTGCTTAGCTC CGTAATACTCACATCCAGGTAATGCCGACATAATCCTCGTCTTGGAAGGTCTCGTACTCGCTACACGACCCGAACACGAATCGAG |  | 6375 |
| LRRK2 |  |  |
| LRRK2-201 |  |  |
| tatccatgagttangtatctcantccteag ATAGGTACTCAATTCATAGAGTTAGGAATC | $\begin{aligned} & 3^{\prime} \\ & 5^{\prime} \end{aligned}$ |  |
| LRRK2 |  |  |
| LRRK2-201 |  |  |



Feature
Location

| Size | $\square$ | 平 | Type |
| :--- | :--- | :--- | :--- |
| 20 bp | $\square$ | $\mapsto$ | misc_feature |

## Silent SNV

3840 .. 3840 bp $\square \quad \mapsto \quad$ misc_feature
/note $\quad=\quad \mathrm{WT}=\mathrm{C}$ Silent SNV $=T$

| PAM | 3843 | .. | 3845 | 3 bp | $\square$ | $\mapsto$ | misc_feature |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| SNV | 3848 | .. | 3848 | 1 bp | $\square$ | $\mapsto$ | misc_feature |

/note
$\begin{aligned}= & \mathrm{WT}=\mathrm{T} \\ & \mathrm{SNV}=\mathrm{C}\end{aligned}$

> PCR Forward Primer
> /sequence $\quad=$ aagctgagctaaacctctatgtgg 46\% GC / 7376.9 Da
> Sanger Sequencing Primer
> 20-mer 3611 .. 3630 - $57^{\circ} \mathrm{C}$ Mar 1, 2023
> /sequence $\quad=$ aagggacaaagtgagcacag 50\% GC / 6233.1 Da
> Donor Template WT -> SNV 100 -mer 3805 .. 3904 - $75^{\circ} \mathrm{C}$ Mar 1, 2023
> /sequence $\quad=$ acctacctg ©AFTGGGABA,740.0 Da
> gRNA Protospacer
> 20-mer 3823 .. 3842 - $50^{\circ} \mathrm{C} \quad$ Mar 1, 2023
> /sequence $\quad=\quad$ ATTGCAAAGATTGCTGACTA 35\% GC / 6140.1 Da
> PCR Reverse Primer
> 24-mer 4230 .. $4253 \quad 59^{\circ} \mathrm{C}$ Mar 1, 2023
> /sequence $\quad=$ aatttgatttgcctcacaagtgcc
> 42\% GC / 7302.8 Da

