

PRKN-206

Donor Sequence WT -> SNV

gRNA Protospacer Sequence

SNV

ASK2J00177_PRKN_R42P_B01_AB
 14,876 bp

5'
3'

GGGGATTTACTGTACAGGGGCATTATACTTACCTCCTTGAGCACATCCTTCTTTAGCTGAGCAACTTTGAGTCTGATAACGC

CCCCATAAATGACAGTGTCCCCGTAATATGAAGTGGAGGAACTCGTGTAGGAAGGAAATCGACTCGTTGAAACTCAGACTATTGCG

85

PRKN >

PRKN-206 >

ACCTTCATCATTACAGGGGTTAGCCAGAGACGTGGATAGATAGAAATTTGGGTTTCTCTTTCTGACTCATTCTTCTGTGTCTCC

TGGAAAGTAGTAAGTCCCCAATCGGTCTCTGCACCTATCTATCTTTAAACCCAAAGAGAAAGACTGAGTAAAAGAAGACACAGAGG

170

PRKN >

PRKN-206 >

TCGGAGGCAGGTGTCCCAGTCTTGGTGTGTTTGTCTTTCAGCCAGAAAACTGTGGCTTTGCAACCAAAGTGCCTGCTGGCCAC

AGCCTCCGTCCACAGGGTCAGAACACAAAACGAAGAAGTCGGTCTTTTTGACACCGAAACGTTGGTTTTACGGACGACCGGGTG

255

PRKN >

PRKN-206 >

ATGCCATGTGCACGGACTGCACCTGGCTTCAAGCCTAAAGCTGTGAGAATGGGCACTCCCTTTACGTAAGTGTACTTCTCCTGAT

TACGGTACACGTGCCTGACGTGGACCGAAGTTCGGATTTGACACTCTTACCCGTGAGGGAAATGCATTGACATGAAGAGGACTA

340

PRKN >

PRKN-206 >

GTGGACCCCTAACTAGAAATCTTCATTTTTTTGTTCACTCTTCTATGGCTTTTCAAGAATCTGCTTTCTTTAGTGAAGTCCCA

CACCTGGGGGATTGATCTTTAGAAGTAAAAAAAACAAGTGAGAAGATACCGAAAAGTTCTTAGACGAAAAGAAATCACTTCAGGGT

425

PRKN >

PRKN-206 >

ATTTTATAGTAGTTTTTTTGCAGGAGGGTTGATCCGATAGCATTAAATAATTCATTATAAAAGGCAAAAATCCTGGCCTCTATGT

TAAAAATATCATCAAAAAAACGTCCTCCCAACTAGGCTATCGTAAATTATTAAGTAATATTTTCCGTTTTTGGACCGGAGATACA

510

PRKN >

PRKN-206 >

ATAAGTGGGGAGATGAAATGAGGCTTCTGTACAAAGATCTTCAAAGACAGAAATAAAGAATTATGAAACAAGCTACTAGAGGA

TATTCACCCCTCTACTTTACTCCGAAGGACAGTGTCTCTAGAAGTTTCTGTCTTTATTTCTTAATACTTTGTTTCGATGATCTCCT

595

PRKN >

PRKN-206 >

TGGTATCATACAGCATATACTCAAGTGCTAAATGAGTATGCAGGTAATAGTTATAAAAAATAAAAAATAAATAAATAAATAA

ACCATAGTATGTCGTATATGAGTTCACGATTTACTCATACGTCCATTATCAATATTTTTATTTTTATTTATTTATATTTTTG

680

PRKN >

PRKN-206 >

ATAAAAAATAGCAATTAAAAAATAAAAAACGAGCTATAAAAAATGCTTGTAGCTAGTAATAATGCAGATCCTTATAACAACCCAATG

TATTTTTATCGTTAATTTTTTATTTTTTGTCTCGATATTTTTACGAACATCGATCATTATTACGTCTAGGAATATTGTTGGGTTAC

765

PRKN >

PRKN-206 >

AAGATGAAATTGCACATGCAAGGTCACCTTAACATTGAGCTATGAGTCCAAAGATGCAGTTCTAGAGATTTGTGTTCCACCACAAA

TTCTACTTTAACGTGTACGTTCCAGTGAATTGTAACCTCGATACTCAGGTTTCTACGTCAAGATCTCTAAACACAAGGTGGTGT

850

PRKN >

PRKN-206 >

TGAGAACAGAAAGCCAACCTATATTGAATGTCCCTGGAAGGTCAACCTGATAAGAAGTGAATGTGATGACAGGATTGAAGTGTAGA
ACTCTTGTCTTCGGTTGATATAACTTACAGGGACCTTCCAGTTGGACTATTCTTGACTTTACACTACTGTCTCTAACTTCACATCT

1785

PRKN

PRKN-206

GCTCATTGCTTTACCAAGAGCAGTCTTCAAGTGTGGCTCACGGAAGAGTATAAAATAAAGAAATGGAGACCAGGGTGATAAGAA
CGAGTAACGAAATGGTTCTCGTCAGAAGTTCACAACCGAGTGCCTTCTCATATTTTATTTCTTTACCTCTGGTCCCACACTATTCTT

1870

PRKN

PRKN-206

ATTCTCAATGAAAATTTCTATATAGAAAAATGGGGTAGTAATCGCAGGAGGGTGTGAGGACAGGTTGGTTGGTTTGTCTAAAGTTA
TAAGAGTTACTTTTAAAGATATATCTTTTTACCCCATCATTAGCGTCTCCACACTCCTGTCCAACCAACCAACGATTTCAAT

1955

PRKN

PRKN-206

GGGAATACTAGATTTAGTGATAGTTCTCAAAGGTGCAGAAGAACTTCCCAGGCAAGGGACATTTGGAAACATGTGGAGTTACTT
CCCTTATGATCTAAATCACTATCAAGAGTTTCCACGTCTTCTTTGAAGGGTCCGTTCCCTGTAAACCTTTGTACACCTCAATGAA

2040

PRKN

PRKN-206

TTGTGTTGCCGCAATTAACCGGGCGTGCCTCTGATACTTACTGGGCTGCAGGTGGAGCCGAACATCCCACGGAGCTTAGGAAAC
AACACAACGGCGTTAATTGGCCCCGCACGGAGACTATGAATGACCCGACGTCCACCTCGGCTTGTAGGGTGCCTCGAATCCTTTG

2125

PRKN

PRKN-206

CCTCTCATGAGGAAGAATTGCCTGCCTTCAGTGCCTGAGTCCATTTTTGTGCTCATGTTAATGGTCTATCTTGGGCTGTGATTT
GGAGAGTACTCCTTCTAACGGACGGAAGTACAGTGCCTGAGTCAAAAAACAGAGTACAATTACCAGATAGAACCCGACACTAAA

2210

PRKN

PRKN-206

TCTTTGGGTCTCTCAGCAAAACTGTCTGAGGCATCACATGATGTTATTTGCCATCTAAAAGGACTTCACCGAACCTTTGACAGTT
AGAAACCCAGAGAGTCGTTTTGACAGACTCCGTAGTGTACTACAATAAACGGTAGATTTTCTGAAGTGGCTTGGAAACTGTCAA

2295

PRKN

PRKN-206

CTGGATATGACTTTGATTAGTCCACCTTATGTACCTGTATTCTGCAGAATCAATCACTGGAACAAGGGGAGTGCCAGGCACAGA
GACCTATACTGAAACTAATCAGGTGGAATACAGTGGACATAAGACGTCTTAGTTAGTGACCTTGTTCCTCCCTCACGGTCCGTGTCT

2380

PRKN

PRKN-206

TTGGCTTGCATCATCCCTGAACCAATCATTTGACCAATGACAAGGAGGATGGGGCTGTGCTGATGAATGACATTGCTCTTCTCAG
AACCGAACGTAGTAGGGACTTGGTTAGTAAACTGGTTACTGTTCTCCTACCCCGACACGACTACTTACTGTAACGAGAAGAGTC

2465

PRKN

PRKN-206

TGCAGGAGGCGGAATGGCTGCTTGAGGAGCAGCCAGAATCATTTAAGAATCATTAATTATTGATATTGACTACTATATTTATGAA
ACGTCTCCGCCTTACCGACGAACTCCTCGTCGGTCTTAGTAAATCTTAGTAATTAATAACTATAACTGATGATATAAAACTT

2550

PRKN

PRKN-206

GTTTATACCTGGTCAGACTTGGTAAATAAAATTGTCTTAAAAGAAATATAAGGGCCCATCCACCAATAACCCTTTCCCCTCTTC
CAAATATGGGACCAGTCTGAACCATTTATTTTAAACAGAATTTTCTTTATATTCCCAGGTAGGTGGTTATTGGGAAAGGGGAGAAG

2635

PRKN

PRKN-206

CCACCCATTCACTTCTTACTCTCTGGGACTTCTCAACCCTGGTTAGGGATATCATAAAAAAGGAATCTGGATATATCTCATTAT
GGTGGGTAAGTGAAGGAATGAGAGACCCTGAAGAGTTGGGACCAATCCCTATAGTATTTTTCTTAGACCTATATAGAGTAATA

2720

PRKN

PRKN-206

GTTTTTTGTTATCAGTGCATTATGATGTTGATTGATAATACACATGATTGATAATGTTTACTGGTATGTTGTTTGTCTGATAC
CAAAAAACAATAGTCACGTAATACTACAACCTAATATTATGTGTACTAACTATTACAAATGACCATACAACAAACAAAGACTATG

2805

PRKN

PRKN-206

TATATTACGTCATCAAAACAATTATTAACAATGCATTTCCAAGCTTTTCATATGTAATTAACCTTAGAAAAGTAGAGGTGA
ATATAATATGCAGTAGTTTTGTTAATAATTTGTTACGTAAAGGTTTCGAAAAGTATACATTAATTTGGAATCTTTCATCTCCACT

2890

PRKN

PRKN-206

GCCATATTCTCTATCATATCTCTTGGTCTCTGGAAGTTTTCTGTCCACCAAGAGGAGCAGAATCCAGAAAAATTGGCTACTTTAT
CGGTATAAGAGATAGTATAGAGAACCAGAGACCTTCAAAGACAGGTGGTTCTCCTCGTCTTAGGTCTTTTTAACCGATGAAATA

2975

PRKN

PRKN-206

TTAGTATTTACCCACATCCTATCTAATCTCCCTTAGTTACCATGCAAGCAAAGGACACTGCTTTCATTAGCTCTACCTCCTCTAG
AATCATAAATGGGTGTAGGATAGATTAGAGGGAATCAATGGTACGTTTCGTTTCTGTGACGAAAGTAATCGAGATGGAGGAGATC

3060

PRKN

PRKN-206

GTGCCTAGAATAGGGAACCTATTTTTGGAGCACACACTTGCCAGCACTAGGAGGATAGGCCCTGTACTAGTCTCTTTCTGAGATT
CACGGATCTTATCCCTTGATAAAAAACCTCGTGTGTGAACGGGTCGTGATCCTCCTATCCGGGACATGATCAGAGAAAGACTCTAA

3145

PRKN

PRKN-206

TTCTAATACATCCATAATCTCAATAAATCTTGTGTAACAGACATTGGTGTGTCATCCCTTATACCGATTTATTAGATCAGGAAGC
AAGATTATGTAGGTATTAGAGTTATTTAGAACACATTGTCTGTAACCACAACGTAGGGAATATGGCTAAATAATCTAGTCCCTTCG

3230

PRKN

PRKN-206

TAAAGTCAAGGTGGCCAGGTAACCTTGTCAATAAATTAGCAAGCGTTACAACCAGCATTCAAATTTCTCTTTATGTAGCTCTAAA
ATTGTCAGTTCCACCGGTCATTGAACAGTATTTAATCGTTTCGCAATGTTGGTTCGTAAGTTTTAAAGAGAAATACATCGAGATTT

3315

PRKN

PRKN-206

GACGTTCTGCCTTCTGTGACTTTAAAGAGGTAGTAGGTGGGGAGAAGTGGGTACTTCTTCCACTCCTGTTTTGGAAATCATGGC
CTGCAAGACGGAAGACACTGAAATTTCTCCATCATCCACCCCTCTTGACCCATGAAGGAAGGTGAGGACAAAACCTTTAGTACCG

3400

PRKN

PRKN-206

TGGAGTTCAGGGGCTGGTACAGATGGGACATGACATGTTTCCCACATATGTCAGAAAAAGGTTGAGACCCACTCAAATCACATTA
ACCTCAAGTCCCCGACCATGTCTACCCTGTACTGTACAAAGGGTGTATACAGTCTTTTTTCCAACCTCTGGGTGAGTTTTAGTGTAAT

3485

PRKN

PRKN-206

CTGCCATTTCAGCACTAGCCATTTTTTACATAATGGCACTTGATTATGAACTCAGTGAGTTTTCTTAAGATGTTTTTTCTTATTCAT
GACGGTAAGTCGTGATCGGTAAAAAGTGTATTACCGTGAACATAACTTTGAGTCACTCAAAGAATTCTACAAAAAAGAATAAGTA

3570

PRKN

PRKN-206

GCGAATGTTTTAGTTGGTCAAATATTATGTATTTGGTTTTATCTTTCCATTTTAAATTTATATTGTATGTTAGATTTACTGTTAAA
CGCTTACAAAATCAACCAGTTTATAATACATAAACCAAATAGAAAAGGTAAAATTTAAATATAACATACAATCTAAATGACAATTT

3655

PRKN

PRKN-206

AATATTCATATCCGTAGTATTTATGATTTATCTAAATACTGTAACCTTTAAATCTGTAACCTTTTCTATTATAGAAAAAECTTGTAT
TTATAAGTATAGGCATCATAAATACTAAATAGATTTATGACATTGAAATTTAGACATTGAAAAGATAATATCTTTTTTTGAACATA

3740

PRKN

PRKN-206

ATACTTAGGATTTTCAGTAGTTGGACAGAGGTATCTTTAATATTTTTTGCAGTTTCCCTTTACAAAAAACTCTCATCCTTGCAGT
TATGAATCCTAAAGTCATCAACCTGTCTCCATAGAAATTATAAAAAACGTCAAAGGGAAATGTTTTTTTTGAGAGTAGGAACGTCA

3825

PRKN

PRKN-206

AGGAGTTCATGATTTGAACCCCTGGAGCAAAATCATAAACTTAGGATCTCCTGGAATTTTTATCTGGTTTTATAGCAGCTTTGG
TCCTCAAGGTAATAAATCTGGGGACCTCGTTTTAGTATTTGAATCCTAGAGGACCTTAAAAATAGACCAAAATATCGTCGAAACC

3910

PRKN

PRKN-206

CACAAATTCAGCCACTTCTTCCCACATTCCTTCCTATGGTGTTTTTACTTTAAATCTATTCTCACTAGTAGAAAATGAAATTTAG
GTGTTTAAGGTCGGTGAAGAAGGGTGTAAAGGAAGGATACCACAAAATGAAATTTAGATAAGAGTGATCATCTTTTACTTTAAATC

3995

PRKN

PRKN-206

AACTGGGGTCATATCTTTTTGTCCCTATAGCCCTAACTTGTGATGTGCTTTTTCTGATGAATTGGTTGTCTTATGGTCTCTGATC
TTGACCCAGTATAGAAAACAGGGATATCGGGGATTGAACAGTACACAGAAAAGACTACTTAACCAACAGAATACCAGAGACTAG

4080

PRKN

PRKN-206

TGAGGATGCTGTGAAGATACCTCAGGGCTTCCAATACATTTTTATTTCTTCCCCTCTATTTTCAAAGGCGTCAAATGAAATTGAC
ACTCTACGACACTTCTATGGAGTCCCGAAGGTTATGTAAAAATAAAGAAGGGGAGATAAAAGTTTCCGCAGTTTTACTTTAACTG

4165

PRKN

PRKN-206

TTAAAAGTGATCAAAGCACCTTTTCTCCGTAATTAGTATTTTTTTCATGAATTTTCTTTATTTGGAGCACTTTGTCACTGGTTCG
AATTTTACATAGTTTTCTGTGGAAAAGGAGGCATTAATCATAAAAAAGTACTTAAAAGAAAATAAACCTCGTGAAACAGTGACCAGC

4250

PRKN

PRKN-206

ATTATTGGCATTGTAATGATTATTATAATTATGATGAGGTGGGTCATCTCACATTGGTATTGAGAAATAATTAGCTATAGTACTA
TAATAACCGTAACATTACTAATAATATTAATACTACTCCACCCAGTAGAGTGAACCATAAECTCTTTATTAATCGATATCATGAT

5185

PRKN

PRKN-206

CATTTAAAGGAAACACAGCAGTAAATAAACAATAACACTTGGCCCTTGAGGAGTTTGTATCTTTTTAAAGAAGGCCAAAATGTATAT
GTAAATTTCCCTTGTGTCGTCATTTATTTGTTATTGTGAACGGGAACTCCTCAAACAATAGAAAATTTCTTCCGTTTTACATATA

5270

PRKN

PRKN-206

CAAAAACAGCTAAATGTCCATTATTTTTAAATGTTACAAGACGATAGTTTTAAATACTATAAATATTATTTAATGAACCGAATAA
GTTTTTGTGCGATTTACAGGTAATAAAAATTTACAATGTTCTGCTATCAAAAATTTATGATATTTATAATAAATTACTTGGCTTATT

5355

PRKN

PRKN-206

TATGGTCTGTGGTTTATTTATGTTTTCAAGATAAGGGAACTGAGACCTAAAGAGGGAGGTTAATAGATTGACCCCTAGCATCCTA
ATACCAGACACCAAATAAATACAAAAGTTCTATTCCCTTGACTCTGGATTTCTCCCTCCAATTATCTAACTGGGGATCGTAGGAT

5440

PRKN

PRKN-206

AGCCAATTAAGGAGTCTGTGGGGATTTTTCATAGGTCTTCTTAATGCTTCAGGATGTTCTTTAAACCCGTGTGCTATCCTGCTT
TCGGTTAATTTCTCAGACACCCCTAAAAAGTATCCAGAAGGATTACGAAGTCTTACAAGAAAATTGGGCACACGATAGGACGAA

5525

PRKN

PRKN-206

CCATGAGGAATGTGGTGAATATTAAGACATATATAGTAAATGCCACTGGTGCCTGAATAAGGAAGATCAGGCTTTTTGCAGTA
GGTACTCCTTACACCACTTATAATTTTCTGTATATATCATTTACGGTGACCACGGGACTTATTCCTTCTAGTCCGAAAACGTCAT

5610

PRKN

PRKN-206

GCTGATAGCCAGAAGCTTCTTGGGGGAGGTCACATTTGAAGTGGGCCATGGAGGTAGGCAGGATTTCAATAGGAAGAGGAGAAGG
CGACTATCGGTCTTCGAAGAACCCCTCCAGTGTAACCTTACCCGGTACCTCCATCCGTCTTAAAGTTATCCTTCTCCTCTTCC

5695

PRKN

PRKN-206

AGGGAGGTCATGAATAAAAAGCAAGAAGTTGTGTGCAGCAGTTTTTTGTGATTTTTTTTTTCTGGGAGCATTTAGTTTTAAAAGAG
TCCCTCCAGTACTTATTTTCGTTCTTCAACACACGTCGTCAAAAAACACTAAAAAAGACCCCTCGTAAATCAAATTTTCTC

5780

PRKN

PRKN-206

TACACATGGAGATTAATGAAGAAAATGCTGGAATGTAGGTTTGTGCTAGATGAAAAGGGATCTTGGAGTCTTTCCTCACCAGCCGA
ATGTGTACCTCTAATTACTTCTTTTACGACCTTACATCCAAACACGATCTACTTTCCCTAGAACCTCAGAAAAGGAGTGGTCGGCT

5865

PRKN

PRKN-206

CAGTGTGAGACTTAAAGGATTTGAGTGGTGTGACATAGCTCTGTATTAATAAGGCTCATTTTTGCAGAACTATGTAGGGCCTTTTTG
GTCACACTCTGAATTTCCCTAAACTCACCACACTGTATCGAGACATAATTATTCCGAGTAAAACGTCTTGATACATCCCGGAAAAC

5950

PRKN

PRKN-206

GAGGTGATGGCGTGGATCAAGACTCCAGTTGGGGGCTATTATGAGACTCTAGAAAAGATGTGATGAGAGCGTGACTTCAAGCAGT
CTCCACTACCGCACCTAGTTCTGAGGTCAACCCCGATAATACTCTGAGATCTTTTCTACACTACTCTCGCACTGAAGTTTCGTCA

6035

PRKN

PRKN-206

GAGAGAAAGAATGGAAAGTAAAGGGCAGTGAGAGACGCTGAAGAGGTGGGACAGCAGGTGCAGTGAGAAGACGGCATGCAGACAG
CTCTCTTTTCTTACCTTTTCAATTTCCCGTCACTCTCTGCGACTTCTCCACCCTGTCGTCCACGTCACCTCTTCTGCCGTACGTCTGTC

6120

PRKN

PRKN-206

ACAGACTAGAGGATGCAGCCTGGGTCTCACGGGGAACAGTGGCTTCAATAAGACAAATGGTGTCACTAGTGTCTCCACCCCTCC
TGCTCTGATCTCCTACGTCGGACCCAGAGTGCCCTTGTACCGAAGTTATTCTGTTTACCACAGTGATCACAGAGGTGGGGGAGG

6205

PRKN

PRKN-206

CTGCCAAAAAGAGGGCAAATAATTGTCTTTCATAGACCCAGTGGAGCATTGTTGGCCAGGACCACCCAAGTCTAGGGCTCTGAGCCA
GACGGTTTTTCTCCCGTTTATTAACAGAAGTATCTGGGTCACTCGTAAAACCGGTCCTGGTGGGTTCAGATCCCGAGACTCGGT

6290

PRKN

PRKN-206

TAGCCCCGAGTGGGTCTTCACTCTGGTCTATAGAGCAGCTTAGATTTTTTCCATTGCTATACCTTGAGTGCTAACACATCGCCT
ATCGGGGCTCACCCAGAAGTGAGACCAGATATCTCGTTCGAATCTAAAAAAGGTAACGATATGGAACCTCACGATTGTGTAGCGGA

6375

PRKN

PRKN-206

PCR Forward

TTTATTAAGAGGGTCACTGTGGAGG

CCTATTTTTATTAAGAGGGTCACTGTGGAGGGAGTGTGAGTGTGTACATGCTGTGAGAGCTGAGTCTTTTCAATAAACTCATGGG
GGATAAAAAATAATTCTCCAGTGACACCTCCCTCACACTCACACATGTACGACAGTCTCGACTCAGAAAAGTTATTTGAGTACCC

6460

PRKN

PRKN-206

ACTCTTTCAATTTCAATCAAGCAAGTGTCTGCTCAAGTCTCTCTGTTTCCAGGATGGATGTCAAAGGGAGAATGCAATTTTGG
TGAGAAAGTTAAGGTTAGTTTCGTTACAGGACGAGTTCAGAGAGACAAAAGGTCCTACCTACAGTTTCCCTCTTACGTTAAAACC

6545

PRKN

PRKN-206

TTTGCAGGTCAGTACGAATATATGAAAGGGAAATCTCGTGGGTAACTAACTCTGTTTTTCCCAAATATTGCTCTATAGCATTAA
AAACGTCCAGTGACTGCTTATATACTTTCCCTTTAGAGCACCCATTGATTGAGACAAAAGGGTTTATAACGAGATATCGTAATT

6630

PRKN

PRKN-206

GTTTTTGTGTAAGTGAAAGAAAATATATACCATTCACTGAAGGGCTGCGAGGGGTAAATCGGTTGAGAAATGTTGCTATCACC
CAAAAAACAACATTCACCTTTCTTTTATATATGGTAAGTGACTTCCCGACGCTCCCCATTTAGCCAACCTTTTACAACGATAGTGG

6715

PRKN

PRKN-206

ATTTAAGGGCTTCGAGTGATGCTCACTTTCTCTTCTCCCTTCCAATTTCTTGGTCAGTGTTTGTTCAGGTTCAACTCCAGCCATG
TAAATTCGCCGAAGCTCACTACGAGTGAAAAGAGAAGAGGGGAAGGTTAAAGGAACCAAGTCACAAAACAGTCCAAGTTGAGGTCGGTAC

6800

PRKN

PRKN-206

F V R F N S H

ENSE00003536181

PRKN-206

Donor Template WT -> SNV

GACACCAGCATCTTCCAGCTCAAGGAGGTGGTTGCTAAGCGACAGGGGGTTCCGGCTGACCA

GTTTCCCAGTGGAGGTCGATTCTGACACCAGCATCTTCCAGCTCAAGGAGGTGGTTGCTAAGCGACAGGGGGTTCCGGCTGACCA
CAAAGGGTCACCTCCAGCTAAGACTGTGGTCGTAGAAGGTCGAGTTTCTCCACCAACGATTTCGCTGTCCCCAAGGCCGACTGGT

6885

PRKN

PRKN-206

G F P V E V D S D T S I F Q L K E V V A K R Q G V P A D Q

ENSE00003536181

PRKN-206

Donor Sequence WT -> SNV

PAM

Donor Template WT -> SNV

GTTGC TGTGATTTTCGCAGGGAAGGAGCTGAGGAATG

GTTGC TGTGATTTTCGCAGGGAAGGAGCTGAGGAATGACTGGACTGTGCAGGTGAGTCTCCCTTGGCGGCCGTTCTTGGGATGC
CAACGCACACTAAAAGCGTCCCTTCTCGACTCCTTACTGACCTGACACGTCCACTCAGAGGGAACCGCCGGAAGAACCCTACG

6970

PRKN

PRKN-206

L R V I F A G K E L R N D W T V Q V S L P W R P F L G C

ENSE00003536181

PRKN-206

(in frame with PRKN-206)

Donor Sequence WT -> SNV

gRNA Protospacer Sequence

SNV

CAACGCACACTAAAAGCGTC

gRNA Protospacer

CGCCAGCTCCATTGCTCATGCCGCCCTGCGCTGCCAATCTGACATTCATGCCTGAGATCTAATAGAATAAATAGTGCCTGGGGATT
GCGGTCGAGGTAACGAGTACGGCGGACGCGACGGTTAGACTGTAAGTACGGACTCTAGATTATCTTATTTATCACGGACCCCTAA

7055

PRKN

PRKN-206

R Q L H C S C R L R C Q S D I H A

(in frame with PRKN-206)

CCTTGAACCTTACTCCACACTGCTTCATTAATTCTGACCTTCTTAATTATGCATTAAAACAGCAAGCAGGAAAGATTGGAAGAAC
GGAACCTTGAATGAGGTGTGACGAAGTAATTAAGACTGGAAGAATTAATACGTAATTTTGTGCTTCGTCCTTTCTAACCTTCTTG

7140

PRKN

PRKN-206

CGTAATTTTGTGCTTCGTCC

Sanger Sequencing Primer

AACTGCGAGTGAGAAAAGAGAGAGAGAAAAGAACACACGAGCTAGGCTTAGTGAATAAATGTCTACTGACTACAGGAGCAGCAAGGC
TTGACGCTCACTCTTTCTCTCTCTTTCTTGTGTGCTCGATCCGAATCACTTATTTACAGATGACTGATGTCCTCGTCGTTCCG

7225

PRKN

PRKN-206

ACAATTTCTGTGTCTGTTCAATTTCTACCTTACTTATTCCATTTGAATCTTAACGAAGAAGGATTGGAATAAATGTTCCCAATC
TGTAAAGACACAGACAAGTTAAAGATGGAATGAATAAGGTAAACTTAGAATTGCTTCTTCTTAAGCTTATTTAACAAGGGTTAG

7310

PRKN

PRKN-206

AGGCTGCTCAGTCCCTGCACTGTGAGGAATTTGTAACCCAATTGTGACCCCTGGAGGTTAGTGAGGGCTGCTGCTATGCTGCGCT
TCCGACGAGTCAGGGACGTGACACTCCTTAAACATTGGGTTAACACTGGGGACCTCCAATCACTCCCAGACGACGATACGACGCGA

7395

PRKN

PRKN-206

CCTTAAACATTGGGTTAACACTGGG
PCR Reverse

AGAGGAGGTGTGGGCTCCGGGGCCCATTTGGCAACTAGCTTTGGGCACTCCTTGGCCAGGACCAGAATCGCACAGTTCTGCAAGCTG
TCTCCTCCACACCCGAGGCCCGGGTAACCGTTGATCGAAACCCGTGAGGAACCGGTCTTGGTCTTAGCGTGTCAAGACGTCGAC

7480

PRKN

PRKN-206

ATGGGGAAGGAAGCCTGGAGCACAACAACAGTATACCTTTGCATGAATTTCTCCAAGGTTCAAGTAACATTGTCCTGGAAATAGG
TACCCCTTCTTCGGACCTCGTGTTGTTGTCATATGGAAACGTACTTAAAGAGGTTCCAAGTCATTGTAACAGGGACCTTTATCC

7565

PRKN

PRKN-206

CCCCTGCAACGTAATAAGTGTGAACGATGCTCTCTTCTCTCCTGGCCCCAGCAGAGCTTCTGGCAGCCCACTGCTCCTAGCCCCA
GGGGACGTTGCATTATTCACACTTGCTACGAGAGAAGAGAGGACCGGGGTCGTCTCGAAGACCGTCGGGTGACGAGGATCGGGGT

7650

PRKN

PRKN-206

TGAAAGCCCTACACACATGTCATTTCGGATTGGTGATTTTTGTAGGAATTAGGGGGACTGGTGAGGTGACTGATAATACCACCATC
ACTTTTCGGGATGTGTGTACAGTAAGCCTAACCCTAAACATCCTTAATCCCCTGACCACTCCACTGACTATTATGGTGGTAG

7735

PRKN

PRKN-206

ACCTAGAACTAGAGACCCGTCCTTTGTTGGGGAAACTCGCAAAATACAACCTCAACATTTGTTGACGCTATTCTTTGTGAATGCAAG
TGGATCTTGATCTCTGGGCAGGAAACAACCCCTTTGAGCGTTTATGTTGAGTTGTAACAACCTGCGATAAGAAACACTTACGTTT

7820

PRKN

PRKN-206

AAAGACGAAACGCTTTCTGGGAATGGTCCCTGTGACTGTGAAGGACCCTGCAGATGTATGTTCCCCTTTTCTTAACCAGCATCAA
TTTCTGCTTTGCGAAAGACCTTACCAGGGACACTGACACTTCTGGGACGTCTACATACAAGGGGAAAAGAATTGGTTCGTAGTT

7905

PRKN

PRKN-206

TTAATTGCACTCAGGTTTACAGCTGTGTGGGTATCACTGCTCCGCGCAGGGGGGCTCCTGGGTGAGAGTACACAAAGTCCGTCTCT
AATTAACGTGAGTCCAAATGTCGACACACCCATAGTGACGAGGCGCGTCCCCCGAGGACCCAGTCTCATGTGTTTCAGGCAGGA

7990

PRKN

PRKN-206

TGTATCTGCATCCTTTCCCTGTCTCTTGTGGGTAACGATATTTATGGCTTTGTAAAATGCTCTCAGAATTTGGGTATACAAAGAA
ACATAGACGTAGGAAAAGGGACAGAGAACACCCATTGCTATAAATACCGAAACATTTTACGAGAGTCTTAAACCCATATGTTTCTT

8075

PRKN

PRKN-206

GCTACAGAAATGCAAATTGTTCCCTGTCATTCTGCATTGCATCTCCTGCTGATGGTGTGAGGCACATACTCGTTGTGCACAAACT
CGATGTCTTTACGTTTAAACAAGGACAGTAAGACGTAACGTAGAGGACGACTACCACAACCTCCGTGTATGAGCAACACGTGTTTGA

8160

PRKN

PRKN-206

GCTGGCCTCTGCTTTTCAGGCAATTTGGTTTTATAAGGGAAGTGCATGTGCTAAAAAGGGTTTTGATTTTTTTTTTTTTCTATTTCA
CGACCGGAGACGAAAGTCCGTTAAACCAAAATATTCCCTTACGTACACGATTTTTCCCAAACTAAAAAAAAAAAAAGATAAAGT

8245

PRKN

PRKN-206

GTCAACTAAAAAGATTTTCACTGTATCTGCCAACCTCTAAATCCAAGGATGTTTCCCTCACAAATAAATAATTTTAAACAGCTC
CAGTTGATTTTTCTAAAAGTGACATAGACGGTTGGAGATTTAGGTTCCCTACAAAGGAAGTGTATTATTATAAATTTTTGTGCGAG

8330

PRKN

PRKN-206

CTTGAATCAAAACATTTTATATTGCCAAAACCTTCAGGTTCTAAACTGCCATTTGTGCTGATTCATAAAACAATTAGCGATTTCA
GAACTTAGTTTTGTAATAATAACGGTTTTGGAAGTCCAAGATTTGACGGTAAACACGACTAAGTATTTTGTAAATCGCTAAAAGT

8415

PRKN

PRKN-206

TATGTAGTTAGACTAATTGCTTCAGATGATTGACTTTGCAAACATATATGCCTAAGACATGTGTTGATTTATGAGTCTATTTTGA
ATACATCAATCTGATTAACGAAGTCTACTAACTGAAACGTTTGTATATACGGATTCTGTACACAACCTAAATACTCAGATAAAACT

8500

PRKN

PRKN-206

CAAACACTTCTTAAGCACTTCCAATGTCCTAGGCTTCTCAGGGGATCCAAAAGAGAGACCTAACTCAGCCCCTGTTTTTCATGGAG
GTTTGTGAAGAATTCGTGAAGGTTACAGGATCCGAAGAGTCCCCTAGGTTTTCTCTCTGGATTGAGTCGGGGACAAAAGTACCTC

8585

PRKN

PRKN-206

ACTGCTCTTTATTTATGAGCCCTAAAACCGAGAGAAATATTAGATTGAACCATATGGGATTGCCATTTTTACAGGTTCAACAATT
TGACGAGAAATAAATACTCGGGATTTTTGGCTCTCTTTATAATCTAACTTGGTATACCCTAACGGTAAAAATGTCCAAGTTGTTAA

8670

PRKN

PRKN-206

TCATGTTGTTCAACCTAATAGCTATAATATAAGAATATGAAACATAACTGCCGTATCGCACCTGAAAATATTATGAAGTTTTAAA
AGTACAACAAGTTGGATTATCGATATTATATTCTTATACTTTGTATTGACGGCATAGCGTGGACTTTTATAATACTTCAAAAATTT

8755

PRKN

PRKN-206

GGTGGAGAAAAACACATCTGGTTGGAAGTCACCAGGAAGAACTTCTTGGATGAATTGAGTTGAGGTAGGATTCTGTAGATGGAGGA
CCACCTCTTTTGTGTAGACCAACCTTCAGTGGTCCTTCTTGAAGAACCTACTTAACTCAACTCCATCCTAAGACATCTACCTCCT

8840

PRKN

PRKN-206

ATAGGGGAATGAGCATAGAGAATGCTTGCCAAAAAGGATGGGTTCTTGTCTTCTAGAACCTGAAGAGAGATGTTGAAGATTGGA
TATCCCCTTACTCGTATCTCTTACGAACGGTTTTTCTACCCAAGAACAAGAAGATCTTGGACTTCTCTCTACAACCTCTAACCT

8925

PRKN

PRKN-206

CAAAAAATAAATATGGGCTATATTTACATAACCTTGACTAACTTGGCATTGAAGTTTTATTGGTGGGGAACCTAGAGAAAAATG
GTTTTTATTTTATACCCGATATAAAGTGTATTGGAAGTGAATTGAACCGTAACTTCAAAGTAACCACCCCTTGATCTCTTTTTTAC

9010

PRKN

PRKN-206

TCATGCCATAGAAGGAAATGGGAAGTCTGAAGACCCGGTTTTGGTTGGGGGAAGGATGCTGCATTGTTCCAACATGATGGGAGTTG
AGTACGGTATCTTCTTTACCCCTTCAGACTTCTGGGCCAAACCAACCCCTTCTTACGACGTAACAAGGTTGTACTACCCCTCAAC

9095

PRKN

PRKN-206

ATGCCAGCTGAGTACGTGTGTTTGGAGATGCCTAGCTGGCTGTTGAGAACTTGTGTCTGAGGACACTGAAAAAGAAAGGTTTCATA
TACGGTGCAGCTCATGCACACAAACCTCTACGGATCGACCGACAACCTTGAACACAGACTCCTGTGACTTTTTCTTTCCAAGTAT

9180

PRKN

PRKN-206

CTTATGGAACCTTCTATTAATCACAGTTAAATGATTTAGGTGCCGAGAAGTTGGCAAACCTTTGTTTCATAGAAGAGTTTCACTGTA
GAATACCTTGAAGATAATTTAGTGTCAATTTACTAAATCCACGGCTCTTCAACCGTTTGAAACAAGTATCTTCTCAAAGTGACAT

9265

PRKN

PRKN-206

AAGACTAGGAAGTTACACATGTAATTGCAAATTGATGGCTATGTTTTCTTTAAGTGTACAACCTGGCAGAATTTTAGCATCCTAGA
TTCTGATCCTTCAATGTGTACATTAACGTTTAACTACCGATACAAAAGAAATTCACATGTTGACCGTCTTAAAATCGTAGGATCT

9350

PRKN

PRKN-206

TATTCTTGATAATCTTAGAACATATGTTTACAACATTTAGTCAATATCATTAGTTACCCATTATCATTACAGGTGCTATATT
ATAAGAACATATTAGAATCTTGTATACAAATGTTGATAAATCAGTTATAGTAAATCAATGGGTAATAGTAATGTCCACGATATAA

9435

PRKN

PRKN-206

TCACAGTATAAGCACAAAATATCTAATAATAAGTTGCTGCTGAGAAAAAGAAGATGGACCTTCCATATGAGCTACTTAATGCTTC
AGTGTCAATTCGTGTTTTATAGATTATTATTCAACGACGACTCTTTTTCTTCTACCTGGAAGGTATACTCGATGAATTACGAAG

9520

PRKN

PRKN-206

CATTAATGAATGTTAAATATACACCTTGGTGTCTGAAGAGAAGAAGAGATGGCTGGGGTGGTGTCTATGCTTGCTGGGTGTCTT
GTAATTACTTACAATTTATATGTGGAACACAGGACTTCTCTTCTCTACCGACCCACACAGATACGAACGACCCACAGAA

9605

PRKN

PRKN-206

CCTCCTGGTTTTCGTATTCTTTATCATAGGTGATATGAACATATATATTAGCTTATCATGCAAAATGAGATATTGTGAGTATAAAA
GGAGGACCAAAGCATAAAGAAATAGTATCCACTATACTTGTATATATAATCGAATAGTACGTTTTACTCTATAAACACTCATATTTT

9690

PRKN

PRKN-206

GAAGACCCTGTCAATAATTATTCCAGGACAAAATTATATGTTGGGAGTGTCTTAGGAAAACCTGAGGCAATGGTCACCCACATAC
CTTCTGGGACAGTTATTAATAAGGTCCTGTTTTAATATAACAACCCTCACAGGATCCTTTTGACTCCGTTACCAGTGGGGTGTATG

9775

PRKN

PRKN-206

TGAGCAGTATCTCTCACACTTAGTTTACCTTCTTTGAGGAGGAAATTAGTTTTAGTGCCTCACCTCAGGTACTTTGGGGAAC
ACTCGTCATAGAGAGTGTGAATCAAAGTGGAAGAACTCCTCCTTTAATCAAATCACGGAGTGGAGTCCATGAAACCCCTTGAT

9860

PRKN

PRKN-206

TAGCTTGAGACCACAGTCTTATGAAATGTCATAATTTTAAAAAGCGAGTTTTGTCTATTTAACTGGCAAAGGGTATTTGTAAGATT
ATCGAACTCTGGTGTGAGAATACTTTACAGTATTAAAATTTTCGCTCAAACAGATAAATTGACCGTTTTCCATAAACATTCTAA

9945

PRKN

PRKN-206

ATAATAGAATTGATGTCACATCTAAAAAATTTTCATAGAATTTTCAGTTCTGGGAGAGCATATCCACAGGCCACTTAGAGAAGCA
TATTATCTTAACTACAGTGTAGATTTTTTAAAAGTATCTTAAAAGTCAAGACCCCTCTCGTATAGGTGTCCGGTGAATCTCTTCGT

10,030

PRKN

PRKN-206

CTGTTAGAGTATAGTTATTTTTCATTACACACTCATCTGTTTCAGTTTTGTTATTGGCAAGACTTTAAGAACTTTAAAAATTAAG
GACAATCTCATATCAATAAAAAGTAATGTGTGAGTAGACAAGTCAAACAATAACCGTTCTGAAATTCTTGAAATTTTTTAATTTTC

10,115

PRKN

PRKN-206

GAAAATGGAAAAATATAGACATTGAAAACGAATGATCTGGCACAGATTTTGTCTTCTGGGAAGCTGGAGTAGGCATACTTTTCCC
CTTTTACCTTTTTTATATCTGTAACCTTTGCTTACTAGACCGTGTCTAAAACGAAGACCCCTTCGACCTCATCCGTATGAAAAGGG

10,200

PRKN

PRKN-206

TCTTCCTCCAGCAACTACACTAAAAAGCCTAGACATTGCATATTGTACAGTTGACTCGTGGAGTCATGGAGTTAGGGGTGCCAA
AGAAGGAGGGTTCGTTGATGTGATTTTTTCGGATCTGTAACGTATAACATGTCAACTGAGCACCTCAGTACCTCAATCCCCACGGTT

10,285

PRKN

PRKN-206

CCGCTATGTAGACAAAACCTCATGTATACTTTTATCTCCCCTCACACTTTACCAGTAGTCTGCTATTGACGGGAAGCCTTACTGAT
GGCGATACATCTGTTTTGAGTACATATGAAAATAGAGGGGAGTGTGAAATGGTCATCAGACGATAACTGCCCTTCGGAAATGACTA

10,370

PRKN

PRKN-206

ACCATGAACAGTTGATTAATACATATTTTTTTCATATGTAATATGTACTGTATGCTTATAATAAAAAAACTAGAGAAAACATTAACA
TGGTACTTGTCAACTAATTATGTATAAAAAGTATACATTATACATGACATACGAATATTATTTTTTGGATCTCTTTTGTAAATTGT

10,455

PRKN

PRKN-206

GCATTACAAAAAGGAGAGAGGATACTTACTATTTCATTAAGTAGAAGTGGATCATCAAGATTTTTCATTGTCTTTGTCTTTCATGTTG
CGTAATGTTTTTCTCTCTCTCTATGAATGATAAGTAATTCATCTTACACCTAGTAGTTCTAAAAGTAACAGAAAACAGAAGTACAAC

10,540

PRKN

PRKN-206

AGTAGGCTAAAGAGGAAGAGGAAGAGGGGGAGTTAGTCTCACTGTCTCAGGGGTGGCAGAGGCAGAAGAAAATCTGCATATAAAT
TCATCCGATTTCTCCTTCTCCTTCTCCCCCTCAATCAGAGTGACAGAGTCCCCACCGTCTCCGTCTTCTTTTAGACGTATATTTA

10,625

PRKN

PRKN-206

GGACCCATGCAGTTTTCAACCCATGTTATTCAAGGGTCCGCTGTACAAGCTTAGGAAGATTCTGAAAGTAGTGAGAAGAATGTGGA
CCTGGGTACGTCAAAGTTGGGTACAATAAGTTCCCAGGCGACATGTTCGAATCCTTCTAAGACTTTCATCACTCTTCTTACACCT

10,710

PRKN

PRKN-206

CAGAGTAGGGATTTTAGAACCCAAGGAAGAATCCAGAGGTGAATTTCTTGAGTTTTCTTTTTGCTACGTTACCTCAGATGTGGAA
GTCTCATCCCTAAAATCTTGGGTTCTTCTTAGGTCTCCACTTAAAGAACTCAAAGAAAAACGATGCAATGGAGTCTACACCTT

10,795

PRKN

PRKN-206

CTGAAGAAGCTGGCAACCAGGAAATGTCAACATATATAGACAAAAAGAAAAGAGAAGAAAAAAGAAGCAGAGAGGAAGGGAGGGG
GACTTCTTCGACCGTTGGTCTTTACAGTTGTATATATCTGTTTTCTTTTTCTTCTTTTTTCTTCGCTCTCTCCTTCCCTCCCC

10,880

PRKN

PRKN-206

CAGAGAGAGAGAGAGAGAGAGAGAAGGGAGGGGTAAAGGAAGGGGGAAGGGGAAGGGAAAAGGAAGAAAGGAAGGAAGGAAGAA
GTCTCTCTCTCTCTCTCTCTCTCTTCCCTCCCCATTTCTTCCCCCTTCCCTTCCCTTTTCTTCTTTTCTTCTTCTTCTTCTTCTT

10,965

PRKN

PRKN-206

ATCCCAACAATGGCCTGTTTTTATCCAGAGGACTCAGAAAGGGGCTGCCTAGCAACATAGAAAACATTTAGACAATAACCAGT
TAGGGGTTGTTACCGGACAAAAAATAGGTCTCCTGAGTCTTCCCGACGGATCGTTGTATCTTTTGTAATCTGTTATTGGTCA

11,050

PRKN

PRKN-206

CTACTCCAGCCAAATGCAACAGAAAAACTGCGGCCCTATCCTTGTCCCCACCAACACTAGTAAAGGCTGAGTGAGAGGCCTCTTG
GATGAGGTCGGTTTACGTTGTCTTTTTGACGCCGGGATAGGAACAGGGGTGGTTGTGATCATTTCCGACTCACCTCTCGGAGAAC

11,135

PRKN

PRKN-206

TTTGAAATTTCTGAAATAAAACACTCACTGATGGGTTTGACATAAGAATGGAAGGAACAGAGAAAAGAGTCAGTGAACCTGGAAGT
AAACTTTAAAGACTTTATTTTTGTGAGTGACTACCCAAACTGTATTCTTACCTTCTTGTCTCTTTTCTCAGTCACTTGACCTTCA

11,220

PRKN

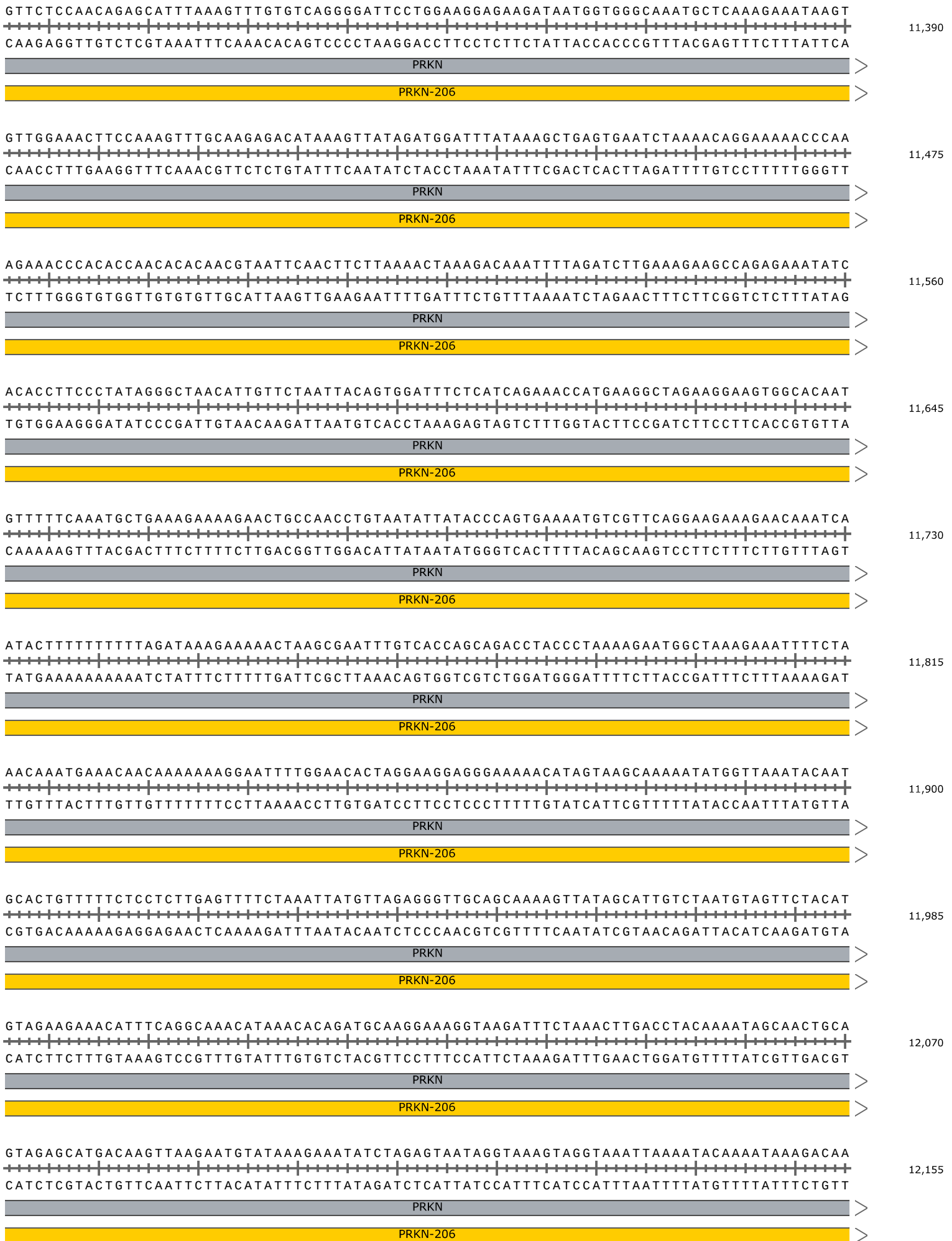
PRKN-206

TGGAACATAGAAATGACACGGTCCAAATGGCAAAGAAAAGGTAGGCTGGAAAAAGAAAAAGGAATAGAGCCTCAGAGACCTGTG
ACCTTGTATCTTTACTGTGCCAGGTTTACCGTTTCTTTTCCATCCGACCTTTTTCTTTTTCTTATCTCGGAGTCTCTGGACAC

11,305

PRKN

PRKN-206



CACCAAATGCTGGTGAGGATGTGGAGAAATTGGATTACTCGCAAATTGCTACTGGGAATATAAAATGGTAGAACCACTCTGGAAA
GTGGTTTACGACCACTCCTACACCTCTTTAACCTAATGAGCGTTTAAACGATGACCCTTATATTTTACCATCTTGGTGAGACCTTT

12,240

PRKN

PRKN-206

AGAATATAGCAGTTTTATAAAAAATGACATATGTATTTACCAGATGACAGAGTTATACTCTTAGTTATTTATCCTAGAGAAATGA
TCTTATATCGTCAAAGTATTTTTACTGTATACATAAATGGTCTACTGTCTCAATATGAGAATCAATAAATAGGATCTCTTTACT

12,325

PRKN

PRKN-206

AGACGTAGGTACACACACAAATCTGTATATGAATGTTTATAGCAGTTTTATTACATTAGCAGAACACGGAAACAACCTCTGATGT
TCTGCATCCATGTGTGTGTTTAGACATATACTTACAAATATCGTCAAATAAGTGTAATCGTCTTGTGCCTTTGTTGAGACTACA

12,410

PRKN

PRKN-206

CTTTCAGTGGATCTGTGGTTCAACAAACTGGTACCTCCACACCCTAGAATATTACTCAGCAGTAAAAAAGGAGCCGACTGTTGAT
GAAAGTCACCTAGACACCAAGTTGTTTGACCATGGAGGTGTGGGATCTTATAATGAGTCGTCATTTTTCTCGGCTGACAACCTA

12,495

PRKN

PRKN-206

ATACAAAATATCTTGGATGGATCTCAGGGGAAATGTGCTGTGTGGAAAAAGCCCATCCCCAAAGATCGTACACTGAATAATTTTA
TATGTTTTATAGAACCTACCTAGAGTCCCCTTTACACGACACACCTTTTTCGGGTAGGGGTTTCTAGCATGTGACTTATTAAT

12,580

PRKN

PRKN-206

TTTATATAACATTCTCAAAACGACAAAATGATAGAAATGGAGGGCAGATTCATGCTTCCCAGCAGTTCTGAAGGGGGTGGAAAGCA
AAATATATTGTAAGAGTTTTGCTGTTTTACTATCTTTACCTCCCGTCTAAGTACGAAGGGTCGTCAAGACTTCCCCCACCTTCGT

12,665

PRKN

PRKN-206

GGTGAGAGGAGGGTACGACTGTGAAAGGGTAACAGAAGGGACCCCTTTGGTGACGGCCGTCTCTGTGCTGACTGTAACAATGCTT
CCACTCTCCTCCCATGCTGACACTTTCCATTGTCTTCCCTGGGAAACCACTGCCGGCAGGAGACACGACTGACATTGTTACGAA

12,750

PRKN

PRKN-206

ATAGTACAATTATAACGTCTAGCTTGGCAAGATGTTACCACTGGCGGAAGCTGGGGAAAAAGGTAGCTGGCATCTTTCTCTGCTAT
TATCATGTTAATATTGCAGATCGAACC GTTCTACAATGGTGACCGCTTCGACCCCTTTTCCATCGACCGTAGAAAGAGACGATA

12,835

PRKN

PRKN-206

CTCTTACAACCTGCGTTAGAATGTGTAAGCATTTTAATATAAAGTTGAATTTAAAAAACCTAGGATATCTGTCCACTTTCACAG
GAGAATGTTGACGCAATCTTACACATTCGTAAAATTATATTTCAACTTAAATTTTTTTTTGGATCCTATAGACAGGTGAAAGTGTC

12,920

PRKN

PRKN-206

AGGAATTGAAACTATCACTTTCTTAGAAAATAAGCTTGCTATTTGTCTCTCTTTTAAAGGGAGAGTATGTATTCAATGAGTGATA
TCCTTAACTTTGATAGTGAAAGAATCTTTTATTTCGAACGATAAACAGAGAGAAAAATTTCCCTCTCATAACATAAGTTACTCACTAT

13,005

PRKN

PRKN-206

CATTGCACTCCAGCCTGGGCCACAAAGAGACTCTGTTTTCAAAAAAAAAAAAAAGGAAACAGATGATCTGCTGTGGTTATAGAGTAAA
GTAACGTGAGGTCGGACCCGGTGTCTCTGAGACAAAGTTTTTTTTTTTTTCTTTGTCTACTAGACGACACCAATATCTCATT

13,940

PRKN

PRKN-206

CATTAGTAACATATTTATGTAATAGAATTTAGGGATGTAATGGCTTCATTTCTGAACTAAATTTATTGAAATTTTCATGGTTTTTT
GTAATCATTGTATAAATACATTATCTTAAATCCCTACATTACCGAAGTAAAGACTTGATTTAAATAACTTTAAAGTACCAAAAAA

14,025

PRKN

PRKN-206

TTGGTAATTTATTCAAATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGATGGAGTCTTACTCTGTGCGCTAGGCTGGAGTGCAA
AACCATTAAATAAGTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAACCTCTACCTCAGAATGAGACAGCGGATCCGACCTCACGTT

14,110

PRKN

PRKN-206

TAGCATGATCTTGGCTCACTGCAACCTCTGCCTCCCAGGTTCAAGTGATTCTCCTGCCTCAGCCTCTCAAGTCGCTGGGATTTCA
ATCGTACTAGAACCAGTGACGTTGGAGACGGAGGGTCCAAGTTCACTAAGAGGACGGAGTCGGAGAGTTCAGCGACCCATAAGT

14,195

PRKN

PRKN-206

GGCATGTACCACCACACCCAGCTAATTTTTGTATTTTTAGTAGAGATTGCTTTTTCTATTGACTATAAAACAGAAAGAGGCTAGT
CCGTACATGGTGGTGTGGGTCGATTAAAAACATAAAAAATCATCTTAACGAAAAAGATAACTGATATTTTGTCTTTCTCCGATCA

14,280

PRKN

PRKN-206

ATCAATTTAGAGCACTGAATACATTTCCACCATGATTTTTGTTTGTATATAAAAGAATTCTGCAAATGACCAATATAGTTCCTA
TAGTTAAATCTCGTGACTTATGTAAAGGTGGTACTAAAAACAAACATATATTTTTCTTAAGACGTTTACTGGTTATATCAAGGAT

14,365

PRKN

PRKN-206

TTTTAACTGATTATAAGATAAAAGGAGGCCAGGCTCAATACCATTATACCCAGAGCACAGTCACGCAGTGATTTATTTCTGTGTA
AAAATTGACTAATATTCTATTTTCTCCGGTCCGAGTTATGGTAATATGGGTCTCGTGTCAGTGCCTCACTAAATAAAGACACAT

14,450

PRKN

PRKN-206

AGAGATTGGTCATGTAATGAGATGCTCATTCACTACAGGACTGATACAAGCATCTTCTCTCTGAAGGTTTTGCCTTGCAAATGGA
TCTCTAACCAGTACATTTACTCTACGAGTAAGTGATGTCTGACTATGTTTCGTAGAAGAGAGACTTCCAACGGAACGTTTACCT

14,535

PRKN

PRKN-206

ACTTACTGCTGGCCTCCTTTATTTAGGCAAATGTACATATCCTCTTGAGTTCCTCCAAAGAACAGGTACATTATTATACGAACTA
TGAATGACGACCGGAGGAAATAAATCCGTTTACATGTATAGGAGAATCAAGGAGGTTTTCTTGTCCATGTAATAATATGCTTGAT

14,620

PRKN

PRKN-206

GTAAGTGTGCTACGTGTCCGAGTCTAGAATCAAAGAATGATCATCTGTACAGGGCAAATGCTCACTTTGGGAAGACCGTTATTT
CATTACAACGATGCACAGGCTCAGATCTTAGTTTTCTTACTAGTAGACATGTCCCGTTTACGAGTGAAACCCCTTCTGGCAATAAA

14,705

PRKN

PRKN-206

CATCTATTTGTGTCTGGTTGCCTCTACATGTCAGAAAAGTATCCCTGAATGACTTACCTCTTTGCATAATTCAGAACTCTCAGAAA
GTAGATAAACACAGACCAACGGGAGATGTACAGTCTTTCATAGGGGACTTACTGAATGGAGAAACGTATTAAGTCTTGAGAGTCTTT

14,790

PRKN

PRKN-206

TGTTATTTTTCTTTGAAAGGAAGCCTTGACATTTCTGTGCCCATGTGGACTTACAAAACATCTCTGAGGATTGCCATCAATAAGC
ACAATAAAAAAGAACTTTCCTTCGGAAGTGTAAAGACACGGGTACACCTGAATGTTTTGTAGAGACTCCTAACGGTAGTTATTCG

14,875

PRKN













PRKN-206

A 3'
T 5' 14,876

PRKN

PRKN-206

Feature	Location	Size			Type
✓ PRKN	1 .. 14,876	14,876 bp		→	gene
/note	= gene ENSG00000185345 Protein coding				
PRKN-201	1 .. 14,876	14,876 bp		→	prim_transcript
/note	= primary transcript ENST00000338468 Nonsense mediated decay				
PRKN-202	1 .. 14,876	14,876 bp		→	prim_transcript
/note	= primary transcript ENST00000366892				
PRKN-203	1 .. 14,876	14,876 bp		→	prim_transcript
/note	= primary transcript ENST00000366894 Nonsense mediated decay				
PRKN-204	1 .. 14,876	14,876 bp		→	prim_transcript
/note	= primary transcript ENST00000366896				
PRKN-205	1 .. 14,876	14,876 bp		→	prim_transcript
/note	= primary transcript ENST00000366897				
✓ PRKN-206	1 .. 14,876	14,876 bp		→	prim_transcript
/note	= primary transcript ENST00000366898				
PRKN-207	1 .. 14,876	14,876 bp		→	prim_transcript
/note	= primary transcript ENST00000479615 Nonsense mediated decay				
PRKN-215	1 .. 14,876	14,876 bp		→	prim_transcript
/note	= primary transcript ENST00000674232 Retained intron				
PRKN-217	1 .. 14,876	14,876 bp		→	prim_transcript
/note	= primary transcript ENST00000674259 protein_coding_CDS_not_defined				
PRKN-221	1 .. 14,876	14,876 bp		→	prim_transcript
/note	= primary transcript ENST00000674493 protein_coding_CDS_not_defined				
PRKN-222	1 .. 14,876	14,876 bp		→	prim_transcript
/note	= primary transcript ENST00000674501 Retained intron				
PRKN-210	1 .. 6937	6937 bp		→	prim_transcript
/note	= primary transcript ENST00000648830 protein_coding_CDS_not_defined				
PRKN-211	6772 .. 14,876	8105 bp		→	prim_transcript
/note	= primary transcript ENST00000673871 Nonsense mediated decay				
PRKN-202	6774 .. 6937	164 bp		→	CDS
/codon_start	= 1				
/note	= coding sequence ENSP00000355858				
/translation	= FVRFNSSHGFPVEVDS DTSIFQLKEVVAKRQGV PADQLRVIFAGKELRNDWTVQ 54 amino acids = 6.2 kDa				
PRKN-204	6774 .. 6937	164 bp		→	CDS
/codon_start	= 1				
/note	= coding sequence ENSP00000355862				
/translation	= FVRFNSSHGFPVEVDS DTSIFQLKEVVAKRQGV PADQLRVIFAGKELRNDWTVQ 54 amino acids = 6.2 kDa				
PRKN-205	6774 .. 6937	164 bp		→	CDS
/codon_start	= 1				
/note	= coding sequence ENSP00000355863				
/translation	= FVRFNSSHGFPVEVDS DTSIFQLKEVVAKRQGV PADQLRVIFAGKELRNDWTVQ 54 amino acids = 6.2 kDa				

Feature	Location	Size			Type
✓ PRKN-206	6774 .. 6937	164 bp			CDS
/codon_start	= 1				
/note	= coding sequence ENSP00000355865				
/translation	= FVRFNSSHGFPVEVDSDT SIFQLKEVVAKRQGV PADQLRVIFAGKELRNDWTVQ 54 amino acids = 6.2 kDa				
✓ Donor Sequence WT -> SNV	6824 .. 6923	100 bp			misc_feature
✓ PAM	6883 .. 6885	3 bp			misc_feature
✓ gRNA Protospacer Sequence	6886 .. 6905	20 bp			misc_feature
✓ SNV	6891 .. 6891	1 bp			misc_feature
/note	= WT = G SNV = C				

Primer	Length	Binding Sites	Tm	Date Added
✓ PCR Forward	25-mer	6382 .. 6406	58°C	Aug 18, 2023
/sequence	=	TTTATTAAGAGGGTCACTGTGGAGG 44% GC / 7792.2 Da		
✓ Donor Template WT -> SNV	100-mer	6824 .. 6923	79°C	Aug 18, 2023
/sequence	=	GACACCAGCATCTTCCAGCTCAAGGAGGTGTTGCTAAGCGACAGGGGGTTCCGGCTGACCAGTTGCCTGTGATTTTCGCAGGGAA 56% GC / 4330.0 Da		
✓ gRNA Protospacer	20-mer	6886 .. 6905	57°C	Aug 18, 2023
/sequence	=	CTGCGAAAATCACACGCAAC 50% GC / 6064.0 Da		
✓ Sanger Sequencing Primer	20-mer	7106 .. 7125	56°C	Aug 18, 2023
/sequence	=	CCTGCTTGCTGTTTTAATGC 45% GC / 6065.0 Da		
✓ PCR Reverse	25-mer	7336 .. 7360	58°C	Aug 18, 2023
/sequence	=	GGGTCACAATTGGGTTACAAATTCC 44% GC / 7681.1 Da		