

PRKN-202

Donor Template WT -> SNV

gRNA Protospacer Sequence

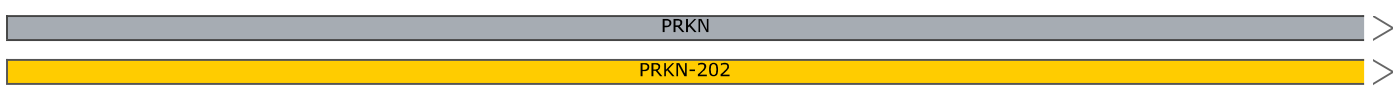
SNV

**ASK2J00176\_PRKN\_T240M\_C10\_AB**  
15,296 bp

5'  
3'

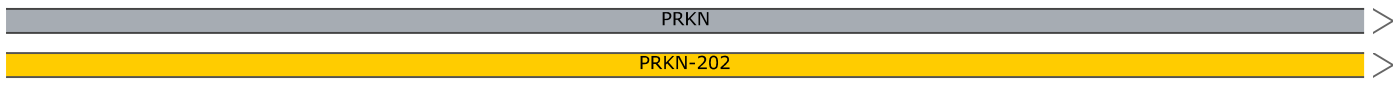
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85



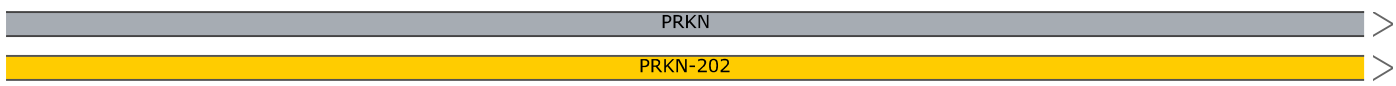
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170



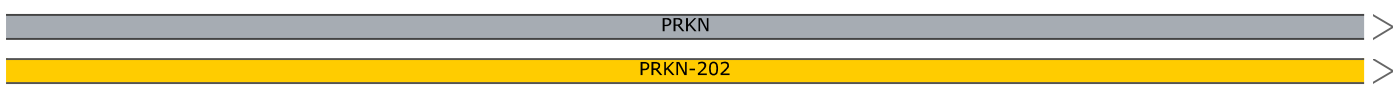
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255



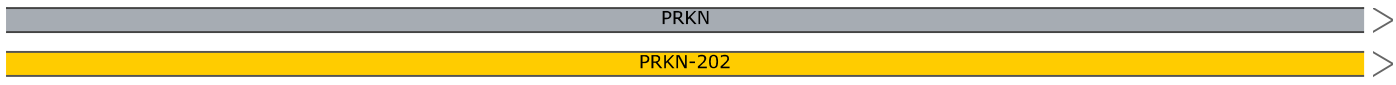
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340



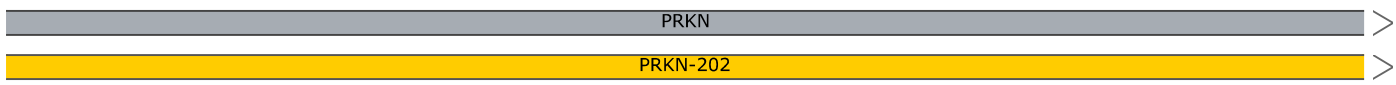
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425



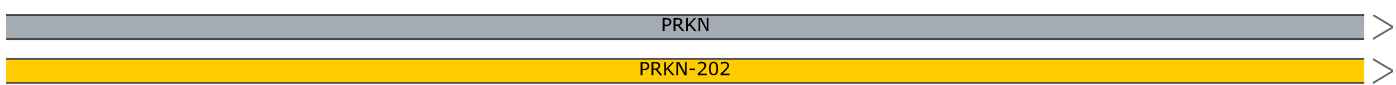
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510



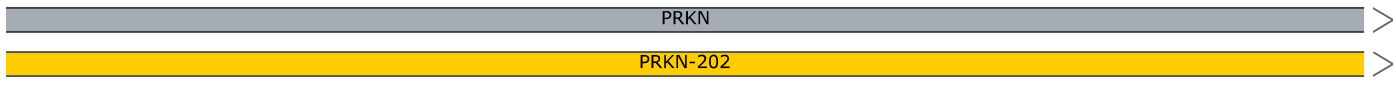
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595



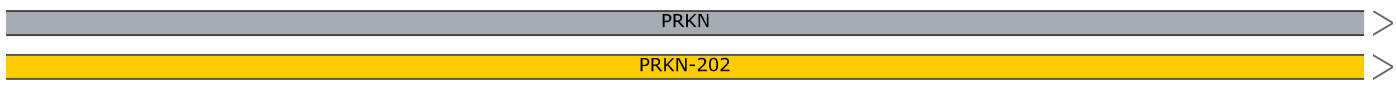
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680



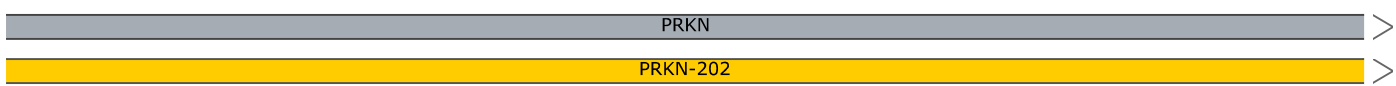
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765



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850



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935

PRKN

PRKN-202

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1020

PRKN

PRKN-202

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1105

PRKN

PRKN-202

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1190

PRKN

PRKN-202

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1275

PRKN

PRKN-202

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1360

PRKN

PRKN-202

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1445

PRKN

PRKN-202

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1530

PRKN

PRKN-202

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1615

PRKN

PRKN-202

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1700

PRKN

PRKN-202

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1785

PRKN

PRKN-202

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1870

PRKN

PRKN-202

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1955

PRKN

PRKN-202

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2040

PRKN

PRKN-202

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2125

PRKN

PRKN-202

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2210

PRKN

PRKN-202

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2295

PRKN

PRKN-202

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2380

PRKN

PRKN-202

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2465

PRKN

PRKN-202

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2550

PRKN

PRKN-202

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2635

PRKN

PRKN-202

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2720

PRKN

PRKN-202

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2805

PRKN

PRKN-202

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2890

PRKN

PRKN-202

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2975

PRKN

PRKN-202

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3060

PRKN

PRKN-202

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3145

PRKN

PRKN-202

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3230

PRKN

PRKN-202

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3315

PRKN

PRKN-202

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3400

PRKN

PRKN-202

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3485

PRKN

PRKN-202

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3570

PRKN

PRKN-202

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3655

PRKN

PRKN-202

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3740

PRKN

PRKN-202

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3825

PRKN

PRKN-202

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3910

PRKN

PRKN-202

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3995

PRKN

PRKN-202

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4080

PRKN

PRKN-202

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4165

PRKN

PRKN-202

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4250

PRKN

PRKN-202

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4335

PRKN

PRKN-202

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4420

PRKN

PRKN-202

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4505

PRKN

PRKN-202

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4590

PRKN

PRKN-202

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4675

PRKN

PRKN-202

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4760

PRKN

PRKN-202

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4845

PRKN

PRKN-202

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4930

PRKN

PRKN-202

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5015

PRKN

PRKN-202

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5100

PRKN

PRKN-202

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5185

PRKN

PRKN-202

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5270

PRKN

PRKN-202

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5355

PRKN

PRKN-202

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5440

PRKN

PRKN-202

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5525

PRKN

PRKN-202

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5610

PRKN

PRKN-202

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5695

PRKN

PRKN-202

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5780

PRKN

PRKN-202

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5865

PRKN

PRKN-202

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5950

PRKN

PRKN-202



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6035

PRKN

PRKN-202

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6120

PRKN

PRKN-202

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6205

PRKN

PRKN-202

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6290

PRKN

PRKN-202

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6375

PRKN

PRKN-202

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6460

PRKN

PRKN-202

ACACCCATTTCATTTGCATACTGCTTATGGCTGTTTTTAGCTACAAGGCCAAGTTGAGAAGTGTGACAAAGACCATATACCCTACA  
TGTGGGTAAGTAAACGTATGACGAATACCGACAAAAATCGATGTTCCGGTTCACACTCTTCACACTGTTTCTGGTATATGGGATGT

6545

PRKN

PRKN-202

AAACCAAAAAGCACTTAATGCGTAATATCTGGCACTTTACATCAAAGTTTTGTCAATACCAGATCAAGTGTTTTAAAGGGAAAAATCCT  
TTTGGTTTTTCGTGAATTACGCATTATAGACCGTGAATGTAGTTTTCAAACAGTTATGGTCTAGTTCACAAAATTCCTTTTTAGGA

6630

PRKN

PRKN-202

TCCCACATTTTCAGGTAGTTAAACGCAAGTGAATTAGGAGTATGTGTGGTATGCAGGGGTTATTCTGTCATCCAGTAAAATATAT  
AGGGTGTAAAGTCCATCAATTTGCGTTACCTTAATCCTCATACACACCATACGTCCCAATAAGACAGTAGGTCATTTTATATA

6715

PRKN

PRKN-202

GTATTTTTTTTTTTCAGTAGCAAAAAATTTAGCTTCACAGATGTTAGTATCATGGAAGGCATGCAGACTGTGGGACAAGAAGTAAA  
CATAAAAAAAAAAAGTCATCGTTTTTTAAATCGAAGTGTCTACAATCATAGTACCTTCCGTACGTCTGACACCCTGTTCTTCATTT

6800

PRKN

PRKN-202

GCAATTGCTGGCCAAACGCCTTGGTGTGTGAGTGAACAGAAGGAGAGTGAGAACAAATACAGAAGTTAGAACAGAAAAAAGTGAA  
CGTTAACGACCGGTTTGCGGAACCACACACTCACTTGTCTTCTCTCACTCTTGTATTATGTCTTCAATCTTGTCTTTTTTCACTT

6885

PRKN

PRKN-202

GAAAAACGTGGTTGAGAAGGGGAGAATATTATCAATCAAAGAACGTGACCTATGTGAAAAGCTAAAATGAGGGAGTATGTGGCA  
CTTTTTTGCACCAACTCTTCCCTCTTATAATAGTTAGTTTTCTTGCACTGGATACACTTTTCGATTTTACTCCCTCATAACCGT

6970

PRKN

PRKN-202

GGACCTGGCTGGGGAAAAGGAACTAAGAAGCAGCAAGATACTGGATTGGAGCATTCCAGTTGCCTGGCACAGAGGGTGGGCGGCAG  
CCTGGACCGACCCCTTCTTGTATTCTTCGTGTTCTATGACCTAACCTCGTAAGGTCAACGGACCGTGTCTCCCACCCGCGCTC

7055

PRKN

PRKN-202

AGTCTTCGCAGGAATGCTGGGGTGTGATGCCAGGCAGAAAAGGGGCAGACTCCAGATGGGGCTGGGAGAGCCATGCTCTGCTAA  
TCAGAAGCGTCCTTACGACCCCACTACGGTCCGTCTTTTCCCGTCTGAGGTCTACCCCGACCTCTCGGTACGAGACGATT

7140

PRKN

PRKN-202

ACTCTCGGCTGGAATTTAGTGGGGTGTCTCAGCTCATTGCAACCTCAAGTGATTCTCCTGCCTCAGCCGGGCTCAAGCGATTTTC  
TGAGAGCCGACCTTAAATCACCCCACTAGAGTCGAGTAACGTTGGAGTTCACCTAAGAGGACGGAGTCGGCCCGAGTTCGCTAAAG

7225

PRKN

PRKN-202

CTGCCTCAGCCTCTCGAGTAGCTAGGATTACAGTCATGTGCCGTCATGCCCGGCTAATTTTTGTATTTTTAGTAGAGATGGGGTT  
GACGGAGTCGGAGAGCTCATCGATCCTAATGTGAGTACACGGCAGTACGGGCGGATTAATAAACATAAAAAATCATCTCTACCCCAA

7310

PRKN

PRKN-202

TCGCCACATTGGCCAGGCTGGTCTCGAACTCCTGACCCCAAGGTGATCCGCCCGCCTCAACCTCCCAAAGTGCTGGGATTACAGGC  
AGCGGTGTAACCGGTCCGACCAGAGCTTGAGGACTGGGGTCCACTAGGCGGGCGGAGTTGGAGGGTTTACGACCCTAATGTCCG

7395

PRKN

PRKN-202

PCR Forward

tggtacttgtgtggctatttacag

GCGAGCCAACGCGCCGGGCTCTGCTGCACTTCTGTGTCTACCAGGAGTCCATGTGTACTTGTGTGGCTATTTACAGTAGGGCTC  
CGCTCGGTTGCGCGGCCCGGAGACGACGTGAAGACACAGATGGTCTCAGGTACACATGAACACACCGATAAATGTCATCCCGAG

7480

PRKN

PRKN-202

TCTCAATTCCTGACTCCGCTAAATGACTAACCATGTAGTGATACTGGAGAAAAAGCACTGGATTTCCCTGCGGGGAGCTTGGGTT  
AGAGTTAAGGACTGAGGCGATTTACTGATTGGTACATCACTATGACCTCTTTTTCGTGACCTAAAGGGACGCCCTCGAACCCAA

7565

PRKN

PRKN-202

ACTTCTTGGCTTCACCTCTTACTGTTTGACCCGTGGGCACCTCATTTCATGGCTTCACGTCTCCCTTTTCCTCATTAGTGAGAGGC  
TGAAGAACC GAAGTGGAGAATGACAAACTGGGCACCCGTGGAGTAAAGTACCGAAGTGCAGAGGGAAAGGAGTAATCACTCTCCG

7650

PRKN

PRKN-202

TTCTCCACCTCCACATCGTGTGATTCTTCTAGACTCACTTATTATCATCGAGGGGCATGGCTTAAAGAAGGTCACAGCGTATT  
AAGGAGGGTGGAGGTGTAGCACACTAAGAAGATCTGAGTGAATAATAGTAGCTCCCCGTACCGAATTTCTTCCAGTGTCGCATAA

7735

PRKN

PRKN-202

TCTCCAGCTCCCTCGCTTAAAGAGCAAAAAGAATAGCAGAGACTCAGGGCCCTTCTAAAACAGAATTGTTGACCACTTTGGCACAA  
AGAGGTTCGAGGGAGCGAATTTCTCGTTTTCTTATCGTCTCTGAGTCCCGGGAAGATTTTGTCTTAACAACCTGGTGAAACCGTGT

7820

PRKN

PRKN-202

GGTCATCCGTTCTGGGAAAGGTTTGATGCTGATTTATTTCCATCTCACACCTCGTAACAGATTTCTTCTCTTGTCCAAAGAGAT  
CCAGTAGGCAAGGACCTTTCCAAACTACGACTAAATAAAGGTAGAGTGTGGAGCATTGTCTAAAGAAGAGAACAGGTTTCTCTA

7905

PRKN

PRKN-202

TGTTTACTGTGGAAACATTTAGAGGAAAAATGAGCAGCCGGGATCCATGTGTGTGATCATATTTATCTTTCTTTTCAGGAATTTTT  
ACAAATGACACCTTTGTAATCTCCTTTTTACTCGTCGGCCCTAGGTACACACACTAGTATAAATAGAAAGAAAGTCCTTAAAAA

7990

PRKN

PRKN-202

E F F  
ENSE0000...  
PRKN-202

CTTTAAATGTGGAGCACACCCACCTCTGACAAGGAAACATCAGTAGCTTTGCACCTGATCGCAACAAATAGTCGGAACATCACT  
GAAATTTACACCTCGTGTGGGGTGGAGACTGTTCTTTGTAGTCATCGAAACGTGGACTAGCGTTGTTTATCAGCCTTGTAGTGA

8075

PRKN

PRKN-202

210 F K C G A H P T S D K E T S V A L H L I A T N S R N I T 235

ENSE00002151207

PRKN-202

Donor Template WT -> SNV

TATCAGCCTTGTAGTGA

Donor Template WT -> SNV

gRNA Protospacer

GCATTACGTGCACAGACGTC

TGCATTACGTGCACAGACGTCAGGTAAGGATCTAAAAATAGTGTCACTTCCCTCCACGGACGTGAGGTAAGGATCTAAAAATAGC  
ACGTAATGCACGTGTCTGCAGTCCATTCTAGATTTTTATCACAGTGAAGGGAGGTGCCTGCACTCCATTCTAGATTTTTATCG

8160

PRKN

PRKN-202

C I T C T D V R  
ENSE00002151207  
PRKN-202

Donor Template WT -> SNV

gRNA Protospacer Sequence PAM

SNV

ACGTAATCACGTGTCTGCAGTCCattccttagattttatcacagtgaagggaggtgcctgcaactccattccttagattttat

Donor Template WT -> SNV

...cacagtgaagggaggtgcctgcactccattccttagattttat  
Donor Template WT -> SNV

ATCACTCCCCCTCCTTACTTTCCCAATATTGTTCTGCCACACGAGCCTTCCCTCAGTGAACCTCTTTTCTGGGGAGTGTCTGCT  
TAGTGAGGGGGGAGGAATGAAAGGGTTATAACAAGACGGTGTGCTCGGAAGGAGTCACTTGAGAGAAAGGACCCCTCACAGACGA

8245

PRKN

PRKN-202

cga

Sanger Sequencing Primer

TTATTTTGTAGCGTCTGCCAATTTGGGTATATTTAATGTGAGGAAACAATTTAAAATGCCAGTGACTTAGTTTAAAGTAGGTAA  
AATAAAACTACGCAGACGGGTTAAACCCATATAAAATTACACTCCTTTGTTAAATTTTACGGTCACTGAATCAAATTCATCCATT

8330

PRKN

PRKN-202

aataaaactacgcagacg  
Sanger Sequencing Primer

ccatt  
PCR Reverse

ATAGGGTCTAAGATGGGAGATGGCATATCTAAAAATAGTGTATGTAATCTTAGTTGATATTTAAAATATAAGCTCACATATTTGAG  
TATCCCAGGATTCTACCCTCTACCGTATAGATTTTTATCACATACATTAGAATCAACTATAATTTTATATTTCGAGTGTATAAACTC

8415

PRKN

PRKN-202

tatcccaggattctaccctc  
PCR Reverse

TATAAAATGTAAACTCATCCATTAAGTTCCAAAATAAAATTTAAAATATGGTGCTAACATTTAAAATGTTAACATTAGGCATGTGC  
ATATTTTACATTTGAGTAGGTAATTC AAGGTTTTATTTTAAATTTTATACCACGATTGTAAATTTTACAATTGTAATCCGTACACG

8500

PRKN

PRKN-202

CACCACACCCAGCTAATTTTTTGTATTTGTAGTAGAGACAGGGTTTCCCATGTTGGCCAGGCTGGTCTTGAACCTCTGACCTCA  
GTGGTGTGGGTCGATTA AAAAACATAAACATCATCTCTGTCCCAAAGGGGTACAACCGGTCCGACCAGA AACTTGAGGACTGGAGT

8585

PRKN

PRKN-202

GGTGATCTGCCACCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCACCCGGCCAGGAATGGAAAAAAAAATTTA  
CCACTAGACGGGTGGAGTCGGAGGGTTTCACGACCCTAATGTCCGCACTCGGTGACGTGGGCGGTCCTTACCTTTTTTTTTAAAT

8670

PRKN

PRKN-202

TGAACACCACAACATGTAGCCCATACATTTTTATTTTTAAATGTCTTTTCCATACATTTTCAGTTCTCCATATTTGCCTATATTTA  
ACTTGTGGTGTGTACATCGGGTATGTAAAAATAAAAAATTTTACAGAAAAGGTATGTAAAGTCAAGAGGTATAAACGGATATAAAT

8755

PRKN

PRKN-202

TGCTGAGGCTTCGCACACATTCATGCACTCAAAATGAAAGCAAGTAGCTAGTTTGGGACCTTGTTATTTCTAATCCCAGTGAACA  
ACGACTCCGAAGCGTGTGTAAGTACGTGAGTTTTACTTTTCGTTTCATCGATCAAACCTGGAACAATAAAGATTAGGGTCACTTGT

8840

PRKN

PRKN-202

CAAGAAAAGCAAGCAAATGTGGAGATGGCCTGTTAGTAAAAAAGGGAAAACGACTCAATACGAATTGCGGTGTAGGAGCCAAGG  
GTTCTTTTCGTTTCGTTTACACCTCTACCGGACAATCATTTTTTCCCTTTTGTGAGTTATGCTTAACGCCACATCCTCGGTTCC

8925

PRKN

PRKN-202

ACAAAGTGGAAGAAACTGAGTCTGTTTGTCTGCAGAGTAGGCAATTCAGAGTACAATTCCTTACTCTACACTTTCCGAATGGAC  
TGTTTTCACTTCTTTGACTCAGACAAAACGAGACGTCTCATCCGTTAAGTCTCATGTTAAGGAATGAGATGTGAAAGGCTTACCTG

9010

PRKN

PRKN-202

AGAGAAAAGAAATTAGCTTCGTTACATGTTCTTTGAAGTTGGCTAAGAAGCTCAAATTGCAATAGTGAGAACTTAGCCCTCATAT  
TCTCTTTTCTTTAATCGAAGCAATGTACAAGAACTTCAACCGATTCTTCGAGTTTAACGTTATCACTCTTGAATCGGGAGTATA

9095

PRKN

PRKN-202

CAGGAAGAACTCTTTTTTTTTTTTTTTTTTGGAGAAGGAGTTTCGCTCTTGTGCTCAGGCTGGAGTGCAATGGCGGGATCTCGGC  
GTCTTCTTGAGAAAAAAAAAAAAAAAAAACTCTTCTCAAAGCGAGAACAACGAGTCCGACCTCACGTTACCGCCCTAGAGCCG

9180

PRKN

PRKN-202

TCACTGCAACCTCCGCCCTCCAGGTTCAAGGGATTCTCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCATGCGCCACCAC  
AGTGACGTTGGAGGCGGAGGGTCCAAGTTCCTAAGAGGACGGAGTCGGAGGGCTCATCGACCCTAATGTCCGTACGCGGTGGTG

9265

PRKN

PRKN-202

ACCAGGCTTATTTGTATTTTAGTAGAGACGGGGTTTCTTCATATTGGTCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATC  
TGGTCCGAATAAAACATAAAAAATCATCTCTGCCCCAAAGAAGTATAACCAGTCCGACCAGAGCTTGAGGACTGGAGTCCACTAG

9350

PRKN

PRKN-202

CGCCCGCCTTAGCCCCACCAAGTGCTGGGATTACAGGCGTGAGCTGCCGCACCCAGCCCAGAAAGAACTTTTTAATGAAATGCCA  
GCGGGCGGAATCGGGGTGGTTCACGACCCTAATGTCCGCACTCGACGGCGTGGGTGGGTCTTTCTTGAAAAATTACTTTACGGT

9435

PRKN

PRKN-202

AAATGAATTAATGAATAAAGTCAAAGAATCTATTGTTTCAGACTTTTAAAGCAAAAATAGTCATATACCCTAATCATTTTAAAGTGT  
TTTACTTAATTACTTATTTTCAGTTTCTTAGATAACAAAGTCTGAAAAATTCGTTTTTATCAGTATATGGGATTAGTAAAAATTCACA

9520

PRKN

PRKN-202

TGTCTCTCTCTGGCTTTTGGAACTGTATTAGATGGTCTTTTTAAAGTTGCTTTAAACTCTGTGATTTTCGTGATAAGCAAATATTCA  
ACAGAGAGAGACCGAAAAACCTTGACATAATCTACCAGAAAATTTCAACGAAATTTGAGACACTAAAGCACTATTCGTTTATAAGT

9605

PRKN

PRKN-202

CACTCCTATCAGGCTATTTCTATTCTCTAATAAATTTAAATTTAAATGTTGATTAATAGAAGCCCAAAAACCTTAACAGCATCTG  
GTGAGGATAGTCCGATAAAGATAAAGAGATTATTTAATTTTAAATTTTACAACATAATTATCTTCGGGTTTTTGGAAATTGTCGTAGAC

9690

PRKN

PRKN-202

TTGAACAAACCTGTTTCCAAGAAGGAATAAAAAATGAGACGTGATTTTCTCTTTGCTGCATGTTTAGTCACTGCTGTGGCAGGAAG  
AACTTGTTTGGACAAAGGTTCTTCTTATTTTTACTCTGCACATAAAGAGAAACGACGTACAAATCAGTGACGACACCGTCCTTC

9775

PRKN

PRKN-202

CACCACAACATTGCCTTTAAAAATATAGCGCTTCAGCCTCTCTTGGCAAGGTGAATGACTGTGTATGGCTAACGCTTTCAACATGC  
GTGGTGTGTAACGGAAATTTTATATCGCGAAGTCCGGAGAGAACCCTTCCACTTACTGACACATACCGATTGCGAAAAGTTGTACG

9860

PRKN

PRKN-202

AAGAAGAACAGCTAAGATGGGGATTCTGGTGTTCGGGAAAGGGATTGAAAAGTGCTAAAAGCGAGGGCTTGACTGCGCTGATAG  
TTCTTCTTGTCGATTCTACCCCTAAGACCACAAAGCCCTTTCCCTAACTTTTACGATTTTTCGCTCCCGAACTGACGCGACTATC

9945

PRKN

PRKN-202

CAGCAGGTAATTTAAGTCACTGTTTCAGTTTTTCAAAGGAAAAATTTCAAATACTCTTCTGTAAGTCAGAAAACAGCTCATCAGCC  
GTCGTCCATTAATTCAGTGACAAGTCAAAAAGTTTCTTTTTAAGTTTTATGAGAAGACATTCAGTCTTTTGTGCGAGTAGTCGG

10,030

PRKN

PRKN-202

AGTATTTTAAACTTTCCATTAAGGTTGGTAAACATGACATTAATAATATGTGGTGATGATGGTATTATCTTACTAAGAGCGTTGCC  
TCATAAAATTTGAAAGGTAATTTCAACCATTTGTAAGTATTTATACACCACTACTACCATAATAGAATGATTCTCGCAACGG

10,115

PRKN

PRKN-202

CTCCCGTTTTCTGCTGTTATGCTGTCACCTTTCGTATTAATAACTGGCAACATCTTTCGAAGAGAATGAGCCACTTACTTCCCAG  
GAGGGGCAAAGGACGACAATACGACAGTGAAAGCATAATTATTGACCGTTGTAGAAAAGCTTCTCTTACTCGGTGAATGAAGGGTC

10,200

PRKN

PRKN-202

ATACACAGGGTGATAATTGCTGGAAAAATAATATTGTACATTAATTTTGTTCATATGATTGCCTTTGGGAGAATTTATAAATAG  
TATGTGTCCCACTATTAACGACCTTTTTATTATAACAGTGAATTTAAACAAGTATACTAACGGAAACCTCTTAAATATTTATC

10,285

PRKN

PRKN-202



TTCAAGACCAGCCTGGGCAACATGGCAAGACCCTGTCCCTACAAAAAATATAAAAAATTAGCCAGGCATGATGGCATGCACCTGTA  
AAGTTCTGGTTCGGACCCGTTGTACCGTTCTGGGACAGGGATGTTTTTTTATATTTTTAATCGGTCCGTACTIONACCCTACGTGGACAT

11,220

PRKN

PRKN-202

GTCCCAGCTACCTGGGAGGCTGAGGCAGGAGAACGGCTTGAGCCTGGGAGGTCAAGGCTGCATTGAGCTGTTTTGTGCCACTGCAC  
CAGGGTCGATGGACCCTCCGACTCCGTCTCTTGCCGAACTCGGACCCTCCAGTTCGGACGTAACCTCGACAAAACACGGTGACGTG

11,305

PRKN

PRKN-202

TCCAGCCTGGGTGACAAAGTGAGACCCTGTCTCAAAAAAATAAAAATGAAAATCATAATAAATTTTTCTCTGCCATGAAAACAGT  
AGGTCGGACCCACTGTTTCACTCTGGGACAGAGTTTTTTTTATTTTTTACTTTTTAGTATTATTTAAAAGAGACGGTACTTTTTGTCA

11,390

PRKN

PRKN-202

TTTTTAAAAATAGGTACCTAAAAATCCGTTATGTGGGGATATGCTGTTGTAGGACTTTCTCCTTAGTTTCAGCTAAAAACAGAGTC  
AAAAATTTTTATCCATGGATTTTAAGGCAATACACCCCTATACGACAACATCCTGAAAGAGGAATCAAGTCGATTTTTGTCTCAG

11,475

PRKN

PRKN-202

CTTGTCACACAACCATGAAAAATTAGGCCCGCAGACTCTTTGAAGGGTGAGAAAAATGGAATTTATTGGGCAAAAAGGAAAAGAA  
GAACAGTGTGTTGGTACTTTTTAATCCGGGCGTCTGAGAAACTTCCCACTCTTTTTACCTTAAATAACCCGTTTTTCTTTTTCTT

11,560

PRKN

PRKN-202

AAAGGGTAACAGGGACTCTCAGCAAAGCAAGATGAATATAGATGAAAATCTATAAGGCAAAATGAATATGGATTAATAAATAGA  
TTTCCCATTTGTCCTGAGAGTCGTTTCGTTCTACTTATATCTACTTTTAGATATTCCGTTTTACTTATACCTAATTTTTATTATCT

11,645

PRKN

PRKN-202

TGAAAATCAGAGTATAGTATTAATTTATCTGTAAATATAGTTTTCTGTGAACTCCTTATCATACTGGAAAATAAAAGTAAAATATT  
ACTTTTAGTCTCATATCATAATTAATAGACATTTATATCAAGACACTTGAGGAATAGTATGACCTTTTATTTTCATTTTATAA

11,730

PRKN

PRKN-202

AAGCCTCCAAGTACTGAAACAGACTCCCTCCTGGTCAGGGGGACCGTGGAGACACCTTGGAAAGCTGAGTTCCAGCCATGATGGGG  
TTCGGAGGTTGACTGACTTGTCTGAGGGAGGACCAGTCCCCCTGGCACCTCTGTGGAACCTTCGACTCAAGGTCGGTACTACCCC

11,815

PRKN

PRKN-202

TGAGAGGTCAGACAGGCCTGTTATGCCAACGCCCTCACTAACCACCTCTAGGTTTTCTTTTCTAAGGGCTAAACAGAAACCAGGC  
ACTCTCCAGTCTGTCCGGACAATACGGTTGCGGGAGTGATTGGTGGAGATCCAAGGAAAGGATTCCCGATTTGTCTTTGGTCCG

11,900

PRKN

PRKN-202

AGGTTTTCCACCTCACCAGCTGAAATCCCAGGTACTIONACCAGATCAGGAGAGGCCAGGCTCCTCCCCACCCCAAACAGCATGAA  
TCCAAAAGGGTGGAGTGGTCGACTTTAGGGTCCATGATGGGTCTAGTCTCTCCGGTCCGAGGAGGGGTGGGGTTTTGTCTACTT

11,985

PRKN

PRKN-202



CTTCCCAAGGCTCCATCCCTTTCTCCAGTGACACAGGCTGGTCACTTTCTCCGGGTACCCCTTGGGTACCTTGGCTGTCTCAGT  
GAAGGGTTCCGAGGTAGGGAAAGAGGGTCACGTGTCCGACCAGTGAAAGAGGCCCATGGGGGAACCCATGGAACCGACAGAGTCA

12,070

PRKN

PRKN-202

TCTATTTAACCATTTCCCCACTTTTTGAGCATTTACTCACAGTTAAAAAAAAAAAAAAAAAAAAAACAATAAGACTGAAAACCATATTA  
AGATAAATTGGTAAAGGGGTGAAAACCTCGTAAATGAGTGTCAATTTTTTTTTTTTTTTTTTTGTTTATTCTGACTTTTGGTATAAT

12,155

PRKN

PRKN-202

TTTTACAGACATCATTGACTGCATGCCTTGGCTCTAAGAATACGGTCATAACAGTGATTGCAGGTCCACGGTAATGGACATTTTTT  
AAAATGTCTGTAGTAACTGACGTACGGAACCGAGATTCTTATGCCAGTATTGTCACTAACGTCCAGGTGCCATTACCTGTAAAAA

12,240

PRKN

PRKN-202

GAGGTTCTTGATCCATATTGTCACCTTCCTTTCCAGAAACACTGCTCTAGTTCTGATCTGGCTTCCCATGTTTTGAGAGGGCTCCC  
CTCCAAGAAGTAACTAGGTATAACAGTGGAAGGAAAGGTCTTTGTGACGAGATCAAGACTAGACCGAAGGGTACAAACTCTCCCGAGGG

12,325

PRKN

PRKN-202

TCCTGCCTCTCTTTCCAGCATAATTTTTGTCTTTGCCTATTTGATAAAGGAGATTTTTTATTATTTTGTATTATGAATACAAGA  
AGGACGGAGAGAAAAGTCGTATTA AAAACAGAAAACGGATAAACTATTTCTCTAAAAAATAATAAAACAATAAATACTTATGTTCT

12,410

PRKN

PRKN-202

ATTTCTCACTGGCTTATTTGCATTTTTATTGTGAGAGAACAATGTGAAACTTTCTCCATATGAAAGCTATACAAAAAGTCTACAA  
TAAAGAGTGACCGAATAAACGTA AAAAATAAACTCTCTTGTACACTTTGAAAGAGGTATACTTTGATATGTTTTTCAGATGTT

12,495

PRKN

PRKN-202

AACAGATCTGGTTTCAGCAATTGCTTTCTCATTCACTATTCATAATATCACGGTGTCTTTATAAATATACAGTTTACTGTCTTT  
TTGTCTAGACCAAAGTCGTTAACGAAAGAGTAAGTGATAAGTATTATAGTGCCACAGGAAATATTTATATGTCAAATGACAGAAA

12,580

PRKN

PRKN-202

TGAATTTATGTTTTAAATATGTTGCTTTGGTCTTTATTTTTAAAAATATTATTTTTCTGGAGATAAATCAAATTCATAATTACAGA  
ACTTAAATACAAATTTATACAACGAAACCAGAAAATAAAATTTTATAATATAAAGGACCTCTATTTAGTTTAAAGTATTAATGTCT

12,665

PRKN

PRKN-202

CTTAAAAATAAAAGGGTGTTTTAAATCTATTTTTATTCTTATAATTGTTTTACTTATGTGTATATATATGTATTAATCATAACAT  
GAATTTTTTATTTTCCACAAAAATTTAGATAAAAAATAAGAATATTAACAAAAATGAATACACATATATATACATAAATTAGTATGTA

12,750

PRKN

PRKN-202

CATTAATCAAATTAGACATAATTAACACATAATAGATGAAAATCGGAGGATAGTATTAATTTATCTGTAAATATAGTTTCTGCG  
GTAATTAGTTTAAATCTGTATTAATTGGTGTATTATCTACTTTTAGCCTCCTATCATAATTAATAGACATTTATATCAAAGACGC

12,835

PRKN

PRKN-202

TACTCCTTATACTGAGAAATAAAAAATAAAATTGTAAGCCTCCAACCTGACTGAACAGAATCCCTCCTTGTCAAGGGGACCGTGGAG  
ATGAGGAATATGACTCTTTATTTTTTATTTTAAACATTCGGAGGTTGACTGACTTGTCTTAGGGAGGAACAGTTCCCTGGCACCTC

12,920

PRKN

PRKN-202

ACACCTTGGAAGCTGAGTTCCAGCCATGATGGGGTGGGAGGTCAGACAGGCCTGTCATGTCCCCACCCTCACTAACCACCTCTAG  
TGTGGAACCTTCGACTCAAGGTCGGTACTACCCACCCTCCAGTCTGTCCGGACAGTACAGGGGTGGGAGTGATTGGTGGAGATC

13,005

PRKN

PRKN-202

GCTTCCTTCCCTAAGGGCTAAACAGAAACCAGGCCTTCGAAAAGACTCTACACTGAGGCTGGGCATGGTGAGTCACGCCTGTAAT  
CGAAGGAAGGGATTCCCGATTTGTCTTTGGTCCGGAAGCTTTTCTGAGATGTGACTCCGACCCGTACCACCTCAGTGCGGACATTA

13,090

PRKN

PRKN-202

CCCAGCACTTTGGGAGGCTGAGGTGTGCAGATCACTTGAGGCCAGGAGTTTGAGAGCAGCCATGGCCAACATGGGGAAATCCCAT  
GGGTCGTGAAACCTCCGACTCCACACGTCTAGTGAACCTCCGGTCTCAAACCTCTCGTCGGTACCGGTTGTACCCCTTTAGGGTA

13,175

PRKN

PRKN-202

CTCTACTAATAATACAAAAAAAAAAAAAAAAAAAAAAAAAATTAGCCAGGCATGGTGGCGCGCGCCTGTAATCCCAGCTACTCGGGAGG  
GAGATGATTATTATGTTTTTTTTTTTTTTTTTTTTTTTAAATCGGTCCGTACCACCGCGCGCGGACATTAGGGTGCATGAGCCCTCC

13,260

PRKN

PRKN-202

CTGAGGCAGGATAATCGCTTGAACCCGGGAGGCGGAAGTTGCACTGAGGCGTGATCACACCACTGCACTCCAGCCTGGGTGACAG  
GACTCCGTCTATTAGCGAACTTGGGCCCTCCGCCTTCAACGTGACTCCGCACTAGTGTGGTGACGTGAGGTGCGGACCACTGTC

13,345

PRKN

PRKN-202

AGTGAAACTGTGTCTCAAAGAAAAAAAAAAGGCCCCACACTGATAATGTCCATCACTGGCTTATATCTTCCCAGGTACAGAATAAA  
TCACCTTGACACAGAGTTTTCTTTTTTTTCCGGGGTGTGACTATTACAGGTAGTGACCGAATATAGAAGGGTCCATGTCTTATTT

13,430

PRKN

PRKN-202

GGCAAGATAAGATAAATCAGTCCCTTACCCTCCCTGAGACAGCTGTTTCTCTATTCTGATTTTCTTTAAATGTTACCTTATCT  
CCGTTCTATTCTATTTAGTCAGGAAGTGGGAGGGACTCTGTGACAAAGGAGATAAGACTAAAAGAAATTTACAAGTGGAAATAGA

13,515

PRKN

PRKN-202

TATGTA AAAATGTAGGTTTACTGGGCACTATCTAAAGGCTCACAAGTATATAATCATCACAAGTATGTCTCATTGCCTCCCCCTTT  
ATACATTTTACATCAAATGACCCGTGATAGATTTCCGAGTGTTTCATATATTAGTAGTGTTCATACAGAGTAACGGAGGGGGAAA

13,600

PRKN

PRKN-202

TAAGGAAAATGCATAAATGCTAAATCTCCTGAGAACCTCTTAGGGAAAAAGCAGCCACAAAGGTAGCTGTGACTTGGGTTTTTTCC  
ATTCTTTTACGTATTTACGATTTAGAGGACTCTTGGAGAATCCCTTTTTTCGTCCGGTGTTCATCGACACTGAACCCAAAAAGG

13,685

PRKN

PRKN-202

CAGGCATGCTCTCAAGCTGGAATAATAGACCTTGATGACGGAGCCTTCTGCCTCAGTCACTCATTTTCGGTTGTCAGTACTAATGA  
GTCCGTACGAGAGTTCGACCTTATTATCTGGAACACTACTGCCTCGGAAGACGGAGTCAGTGAGTAAAGCCAACAGTCATGATTACT

13,770

PRKN

PRKN-202

AAGTAAGAATTTTATGTTTTTGTGCTTTACAAATATACTTCTATATAGTAAGAGACTGATAACTCTTTCATTTACCTTTTTAATA  
TTCATTCTTAAAATACAAAAACACGAAATGTTTATATGAAGATATATCATTCTCTGACTATTGAGAAAAGTAAATGGAAAAATTAT

13,855

PRKN

PRKN-202

ATAATTCAAGTGCTCTAATGCCACAAAGCTAACTTTTTGACCTTAAGAGAATACCACAATTTCTTTGGCCTTTGGTTTCCGTGTA  
TATTAAGTTCACGAGATTACGGTGTTCGATTGAAAACTGGAATTCTCTTATGGTGTTAAAGAAACCGGAAACCAAAGGCACAT

13,940

PRKN

PRKN-202

AAATCCAGGATTTTAAAGTAGGTCATCTCCAAGGCTCTGACTGGTTCTAAGGACTGCAGGAGGGAGGAATAAGACTTCTTCATAGC  
TTTAGGTCTAAAATTCATCCAGTAGAGGTTCCGAGACTGACCAAGATTCTGACGTCTCCTCCTTATTCTGAAGAAGTATCG

14,025

PRKN

PRKN-202

TTATAAATTGATTGAGACAGTTGCAAAAACTTGTATTTAGTTCTGTCTGTTGACAAATGCAGAAATCAAAGATGAAGTCTGCA  
AATATTTAACTAACTCTGTCAACGTTTTTATGAACATAAATCAAGACAGACAACCTGTTTACGTCTTTAGTTTCTACTTCAGACGT

14,110

PRKN

PRKN-202

ATGATGCGCCTACCAAATCACATATATGTTGTAACATGTAGGCCGATGTATAAGAGACATGTGTGACTCATGGCCAGATTTTAGG  
TACTACGCGGATGGTTTAGTGTATATACAACATTGTACATCCGGCTACATATTCTCTGTACACACTGAGTACCGGTCTAAAATCC

14,195

PRKN

PRKN-202

TTTACAGTTTAAATTCAGGTACATGATTTGTGTCCTTTGAGTTTACATTTGACATAAAATATTTTACTCTTTCTTAGGCCGGGCGC  
AAATGTCAAATTAAGTCCATGTACTAAACACAGGAAACTCAAATGTAAACTGTATTTTATAAAATGAGAAAGAATCCGGCCCGCG

14,280

PRKN

PRKN-202

AGTGGCTCACGCCTGTAATCCAGCACCTTGGGAGGCTGAGGTGGGCAGATCACGAGGTCAGGAGTTCGAGACCAGCCTGGCCAA  
TCACCGAGTGCGGACATTAGGGTCTGTGAACCTCCGACTCCACCCGTCTAGTGCTCCAGTCTCAAGCTCTGGTTCGGACCGGTT

14,365

PRKN

PRKN-202

CATAGTGAAACCCCATCTCTACTAAAAATACAAAAATTAGCTGGGAGTGGTGGTGTGCACCTGTAGTCCCACCTACTTGGGAGGC  
GTATCACTTTGGGGTAGAGATGATTTTTATGTTTTAATCGACCTCACCACCACACGTGGACATCAGGGTGGATGAACCTCCG

14,450

PRKN

PRKN-202

TGAGGCAGGAGAATCGCTTGAATCCAGGAGGCAGAGGTTGTGGTGAGCCAAGATCGTGCCACTGCACTCTAGCCTGGGCAACAAA  
ACTCCGTCTCTTAGCGAACTTAGGTCCTCCGTCTCCAACACCACTCGGTTCTAGCACGGTGACGTGAGATCGGACCCGTTGTTT

14,535

PRKN

PRKN-202

GCGAGACTCCGTCTCAAAAACAAAACAAAACAAAACAAAATATTTTACTCTTTCTTAAGGGAAAAAGTGAACATCTCTGGGAACCA  
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14,620

PRKN

PRKN-202

GAATGTCCTGAGGTTTTTTGTGAAGCTGCAGGTTCCCTTCTGGCCATCAAGCCTTGTGTTCTCCTCTCCTTACCAACAGTAGTGA  
CTTACAGGACTCCAAAAAACACTTCGACGTCCAAGGGGAAGACCGGTAGTTCGGAACACAAGAGGAGAGGAATGGTTGTCATCACT

14,705

PRKN

PRKN-202

CTTGCTCTTACCCCTTCAGGGTTGTCAGTTGATAGTTTGTGAGGTTTATGAATATAAGCATAACAAGCTGAACAAAAAGCAAGAACT  
GAACGAGAAGTGGAAGTCCCAACAGTCAACTATCAAACCTCAAATACTTATATTTCGTATTGTTTCGACTTGTTTTTCGTTCTTGA

14,790

PRKN

PRKN-202

GGATTAAGCACAGTAAGTCTAGCACTTGAAGGCCAAAATAGCTGCCTTGTGTTAGTCTTTCCAATAGAAGTTACAACAGAAGGTTCA  
CCTAATTCGTGTCATTCAGATCGTGAACCTCCGTTTTATCGACGGAACAAAATCAGAAAGTTATCTTCAATGTTGCTTCCAAGT

14,875

PRKN

PRKN-202

GGACTTTTTTGGGTGCCTAAGTCATATAAAAATGGCACAGGTAAGCCAAAGGGATACCGGAATCTTTCCCTAGCCAGCATGTGT  
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14,960

PRKN

PRKN-202

GTCTTGGGGCTCACCCCTCTGTCAGTGTCTCCCAAACGAAATTGATATTTCTGCTCCTTCAATCTCCCTTTACAGTGCCAGTTTTTC  
CAGAACCCTCGAGTGGGAGACAGTCAAGAGGGTTTGTCTTAACTATAAAGACGAGGAAGTTAGAGGGAAATGTCACGGTCAAAAAG

15,045

PRKN

PRKN-202

TAAATTTTTTAAAGGGTAAAAATTGAAAACATACAAAATAGAAAAATCCTTATCAAGATATTGAGGACTAAACTCTGATTTTTTTT  
ATTTAAAAAATTTCCCATTTTTAACTTTTTGTATGTTTTATCTTTTTAGGAATAGTTCTATAACTCCTGATTTGAGACTAAAAAAA

15,130

PRKN

PRKN-202

TATCATACCCAAATTTCTATCTAAGGAGTCTGGGGAGTCATGCCCTACAATTCGTATATTCTCATCAGATAGGTTTTATTTAACCC  
ATAGTATGGGTTTTAAAGATAGATTCCCTCAGACCCCTCAGTACGGGATGTTAAGCATATAAGAGTAGTCTATCCAAAATAAATTGG

15,215

PRKN

















PRKN-202











CTATTTATTGTGACTACTTTCCAAACTGACTTCGGGATAACATTATGAGACAAGGAAGAAAAACAAAATATTTTAGCCCAA  
GATAAATAACACTGATGAAAGGTTTACTGAAAGCCCTATTGTAATACTCTGTTCTTTTGTGTTTTATAAAATCGGGTT









3'  
15,296  
5'

PRKN

PRKN-202

| Feature          |  | Location     | Size      |      |      | Type            |
|------------------|--|--------------|-----------|---|---|-----------------|
| <b>PACRG</b>     |  | 1 .. 15,296  | 15,296 bp |      |      | gene            |
| /note            | = gene <a href="#">ENSG00000112530</a><br>Protein coding                               |              |           |   |   |                 |
| <b>PRKN</b>      |  | 1 .. 15,296  | 15,296 bp |    |    | gene            |
| /note            | = gene <a href="#">ENSG00000185345</a><br>Protein coding                               |              |           |   |   |                 |
| <b>PACRG-201</b> |  | 1 .. 15,296  | 15,296 bp |    |    | prim_transcript |
| /note            | = primary transcript <a href="#">ENST00000337019</a><br>Protein coding                 |              |           |   |   |                 |
| <b>PACRG-203</b> |  | 1 .. 15,296  | 15,296 bp |    |    | prim_transcript |
| /note            | = primary transcript <a href="#">ENST00000366889</a><br>Protein coding                 |              |           |   |   |                 |
| <b>PRKN-201</b>  |  | 1 .. 15,296  | 15,296 bp |    |    | prim_transcript |
| /note            | = primary transcript <a href="#">ENST00000338468</a><br>Nonsense mediated decay        |              |           |   |   |                 |
| <b>PRKN-202</b>  |  | 1 .. 15,296  | 15,296 bp |    |    | prim_transcript |
| /note            | = primary transcript <a href="#">ENST00000366892</a>                                   |              |           |   |   |                 |
| <b>PRKN-203</b>  |  | 1 .. 15,296  | 15,296 bp |    |    | prim_transcript |
| /note            | = primary transcript <a href="#">ENST00000366894</a><br>Nonsense mediated decay        |              |           |   |   |                 |
| <b>PRKN-204</b>  |  | 1 .. 15,296  | 15,296 bp |    |    | prim_transcript |
| /note            | = primary transcript <a href="#">ENST00000366896</a>                                   |              |           |   |   |                 |
| <b>PRKN-205</b>  |  | 1 .. 15,296  | 15,296 bp |    |    | prim_transcript |
| /note            | = primary transcript <a href="#">ENST00000366897</a>                                   |              |           |   |   |                 |
| <b>PRKN-206</b>  |  | 1 .. 15,296  | 15,296 bp |    |    | prim_transcript |
| /note            | = primary transcript <a href="#">ENST00000366898</a>                                   |              |           |   |   |                 |
| <b>PRKN-207</b>  |  | 1 .. 15,296  | 15,296 bp |   |   | prim_transcript |
| /note            | = primary transcript <a href="#">ENST00000479615</a><br>Nonsense mediated decay        |              |           |   |   |                 |
| <b>PRKN-212</b>  |  | 1 .. 15,296  | 15,296 bp |  |  | prim_transcript |
| /note            | = primary transcript <a href="#">ENST00000673871</a><br>Nonsense mediated decay        |              |           |   |   |                 |
| <b>PRKN-221</b>  |  | 1 .. 15,296  | 15,296 bp |  |  | prim_transcript |
| /note            | = primary transcript <a href="#">ENST00000674436</a><br>protein_coding_CDS_not_defined |              |           |   |   |                 |
| <b>PRKN-223</b>  |  | 1 .. 15,296  | 15,296 bp |  |  | prim_transcript |
| /note            | = primary transcript <a href="#">ENST00000674501</a><br>Retained intron                |              |           |   |   |                 |
| <b>PRKN-216</b>  |  | 1 .. 8454    | 8454 bp   |  |  | prim_transcript |
| /note            | = primary transcript <a href="#">ENST00000674232</a><br>Retained intron                |              |           |   |   |                 |
| <b>PRKN-202</b>  |  | 7983 .. 8098 | 116 bp    |  |  | CDS             |
| /note            | = coding sequence <a href="#">ENSP00000355858</a>                                      |              |           |   |   |                 |
| /translation     | = EFFFKCGAHPTSDKETSVALHLIATNSRNITCITCTDV<br>38 amino acids = 4.2 kDa                   |              |           |   |   |                 |
| <b>PRKN-204</b>  |  | 7983 .. 8098 | 116 bp    |  |  | CDS             |
| /note            | = coding sequence <a href="#">ENSP00000355862</a>                                      |              |           |   |   |                 |
| /translation     | = EFFFKCGAHPTSDKETSVALHLIATNSRNITCITCTDV<br>38 amino acids = 4.2 kDa                   |              |           |   |   |                 |
| <b>PRKN-205</b>  |  | 7983 .. 8098 | 116 bp    |  |  | CDS             |
| /note            | = coding sequence <a href="#">ENSP00000355863</a>                                      |              |           |   |   |                 |
| /translation     | = EFFFKCGAHPTSDKETSVALHLIATNSRNITCITCTDV<br>38 amino acids = 4.2 kDa                   |              |           |   |   |                 |
| <b>PRKN-206</b>  |  | 7983 .. 8098 | 116 bp    |  |  | CDS             |
| /note            | = coding sequence <a href="#">ENSP00000355865</a>                                      |              |           |   |   |                 |
| /translation     | = EFFFKCGAHPTSDKETSVALHLIATNSRNITCITCTDV<br>38 amino acids = 4.2 kDa                   |              |           |   |   |                 |

| Feature                              | Location     | Size   |     |     | Type         |
|--------------------------------------|--------------|--------|---|---|--------------|
| ✓ <b>Donor Template WT -&gt; SNV</b> | 8059 .. 8158 | 100 bp |    |    | misc_feature |
| ✓ <b>gRNA Protospacer Sequence</b>   | 8077 .. 8096 | 20 bp  |    |    | misc_feature |
| ✓ <b>SNV</b>                         | 8083 .. 8083 | 1 bp   |  |  | misc_feature |
| /note = WT = C<br>SNV = T            |              |        |   |   |              |
| ✓ <b>PAM</b>                         | 8097 .. 8099 | 3 bp   |  |  | misc_feature |

| Primer                               | Length  |                      | Binding Sites                |    | Tm           | Date Added   |
|--------------------------------------|---------|--|------------------------------|--|--------------|--------------|
| ✓ <b>PCR Forward</b>                 | 25-mer  |  | 7448 .. 7472                 |   | 58°C         | May 19, 2023 |
| /sequence                            | =       | tgtgtacttggtggctatttacag   |                              |  |              |              |
|                                      |         | 40% GC / 7709.1 Da   |                              |  |              |              |
| ✓ <b>Donor Template WT -&gt; SNV</b> | 100-mer |  | 8059 .. 8158<br>8097 .. 8115 | <br> | 73°C<br>44°C | May 19, 2023 |
| /sequence                            | =       | tatttttagatccttacctcagtcctggagggaagtgacactatttttagatccttacCTGACGTCTGTGCACATAATGCAAGTGATGTTCCGACTAT |                              |  |              |              |
|                                      |         | 42% GC / 30,744.0 Da   |                              |  |              |              |
| ✓ <b>gRNA Protospacer</b>            | 20-mer  |  | 8077 .. 8096                 |   | 60°C         | May 19, 2023 |
| /sequence                            | =       | GCATTACGTGCACAGACGTC   |                              |  |              |              |
|                                      |         | 55% GC / 6102.0 Da   |                              |  |              |              |
| ✓ <b>Sanger Sequencing Primer</b>    | 21-mer  |  | 8243 .. 8263                 |   | 55°C         | May 19, 2023 |
| /sequence                            | =       | gcagacgcatcaaaataaagc  |                              |  |              |              |
|                                      |         | 43% GC / 6441.3 Da   |                              |  |              |              |
| ✓ <b>PCR Reverse</b>                 | 25-mer  |  | 8326 .. 8350                 |   | 58°C         | May 19, 2023 |
| /sequence                            | =       | ctcccatcttaggaccctattacc   |                              |  |              |              |
|                                      |         | 48% GC / 7487.9 Da   |                              |  |              |              |