

PRKN-206

Donor Template SNV -> Rev

gRNA Protospacer

Silent SNV

ASK2J00174R_PRKN_R275W_A06_AA
12,844 bp

5'
3'

AAAGAATCAGGCAAATGGAGAGAAAAGAGAAAACAGACAGATTTTGGCAGAGAGTGTGTGAAGGAGGGCAAATGAGAGAGAAACAAAC
TTTCTTAGTCCGTTTACCTCTCTTTCTCTTTGTCTGTCTAAAACGGTCTCTCACACACTTCCTCCCGTTTACTCTCTCTTTGTTTG

85

PRKN

PRKN-206

AAGGTGGACAGCAGAGTAAATTGCACATTTTTCTAGATAAACATAAAAACTCGCATGCTATTTTTGTAGATGCTAGAATACTAAC
TTCCACCTGTCGTCTCATTAAACGTGTA AAAAGATCTATTTGTATTTTTGAGCGTACGATAAAAAACATCTACGATCTTATGATTG

170

PRKN

PRKN-206

TTTACAAGAATTTAAATATTTGGAACACTGTGTAACCATATTCTACTTTTTTAATGTATGTGAATGACTTGCCACATTATTTGTA
AAATGTTCTTAAATTTATAAACCTTGTGACACATTGGTATAAGATGAAAAAATTACATACACTTACTGAACGGTGAATAAACAT

255

PRKN

PRKN-206

ACTCAAACCTCCTTCAATTGTGCTTAAATATTCTGCAAACAAAGGGTCGCTTTTTATCAAACAGAGAAATCATTGGTTACAAATA
TGAGTTTGAGGAAGTTAACACGAATTTATAAGACGTTTGTTCAGCGAAAAATAGTTTTGTCTCTTTAGTAACCAATGTTTAT

340

PRKN

PRKN-206

ACTCTTTGGCATTGTCAAGGAAAGCATTATAAGTCTTTTTATATATAAATTGAGAACTTTACTTAACCTTTAATTTACCGCTCTT
TGAGAAACCCTAACAGTTCCCTTCGTAAATATTCAGAAAAATATATATTAACCTTTGAAATGAATTGAAATTAATGGCGAGAA

425

PRKN

PRKN-206

TAACTGGCCCATTGGGGTGAAATCATCTCTGGATCGATCAATTAACATTTATATGTAGATAATTAGAGCAAAGGGCACACAGGA
ATTGGACCGGGTAACCCCACTTTAGTAGAGACCTAGCTAGTTAATTGTAATATACATCTATTAATCTCGTTTTCCCGTGTGTCTT

510

PRKN

PRKN-206

ATGTCAGGAGGAACAAAAGACCCATGAGAGGATAAGTCTTGGCGGGTCTGCTCTGAAATGTCACCCGTTCTTCTTCTCATTTC
TACAGTCTCCTTGTTTTCTGGGTACTCTCCTATTCAGGACCGCCAGGACGAGACTTTACAGTGGGCAAGAAGAAGAGTAAAGG

595

PRKN

PRKN-206

ACTCCAGAGCCATTTGCACATCATAGTCCAGTTCTTAGTAACTCATGTCTAAATTATCAAATGACCTCAAGTAGTTCTCACTA
TGAGGGTCTCGGTAACCGTGTAGTATCAGGTCAAGAATCATTGAGTACAGATTTAATAGTTTTACTGGAGTTCATCAAGAGTGAT

680

PRKN

PRKN-206

CTTCCAGCTTCCCTCCATACTTCTGTGCGGAGCTAAACTTACTAAAACATCATTCCCTTCCCATGTTTAAAAACTCTCTTAGTAC
GAAGGTGCAAAGGGGAGGTATGAAGACAGCCTCGATTTGAATGATTTTGTAGTAAGGGGAGGGTACAAATTTTTGAGAGAATCATG

765

PRKN

PRKN-206

ATTCTGGCTGCTATAACAAAATCCCATAACTGGTGGCTTATAACAACAGGAATTTATTTCTCACGGTTCCGGGAGACTG66AAG
TAAGACCGACGATATTGTTTTAGGGTATTTGACCACCGAATATTTGTTGTCTTAAATAAAGAGTGCCAAGGCCTCTGACCCTTC

850

PRKN

PRKN-206

TCCTAGATCAAAGCACTGGCAGATCCAGTGTCTGGTGAGATCCCCACTTCTGGTTCATAGACGGTGGCTTCTCACTGTGTCTC
AGGATCTAGTTTCGTGACCGTCTAGGTCACAGACCACTCTAGGGGTGAAGGACCAAGTATCTGCCACCGAAGAGTGACACAGGAG

935

PRKN

PRKN-206

ATATGGTGGAACGTGTGTGGGAGCTTTCCGGGGTCTCTTTAAAAGGGCACTCATTATTCATGAGGGCTCTTCTCTCACACCAT
TATAACCACCTTGCACACACCCTCGAAAAGGCCCCAGAGAAATTTCCCGTGAGTAAAAAAGTACTCCCGAGAAGAGAGTGTGGTA

1020

PRKN

PRKN-206

TCACTTCCTAAAGACCCCGTGTCTAACACCATCATTGGAGATAAGGATTTAACATACGAATTTGGGGAACACAAACATTC
AGTGAAGGATTTCTGGGGCACAAGATTGTGGTAGTAAACCTCTATTCTAAAATTGTATGCTTAAAACCCCTTGTGTTTGTAAAG

1105

PRKN

PRKN-206

AGACCATAGCAGAAACCTTCAGTGAATCCCACAGTCTAGAGGCCTTATGCTAGGTGTGTCTCCTAGAGTCAACCCTGATCCCTGG
TCTGGTATCGTCTTTGGAAGTCACTTAGGGTGTGAGATCTCCGGAATACGATCCACACAGAGGATCTCAGTTGGGACTAGGGACC

1190

PRKN

PRKN-206

CCAGAATCTCCTCTGTTCTCAACTCTTTTCATCTTGTCCCCACCATTTTCTGATACATCTTTTTGATCAGCCACCTGATTTTC
GGTCTTAGAGGAGACAAGAGTTGAGAAAAGTAGAACAGGGGGTGGTAAAAGGACTATGTAGAAAAACTAGTCGGGTGGACTAAAG

1275

PRKN

PRKN-206

TCTTCTGTTCCAAGCATACTTGCATGTCTGTGATTCTTCTGCTTAGAAACAACATTTCTTTCCAGTGACCAAACATCAATCCT
AGAAGACAAGGTTTCGTATGAACGTACAGACACTAAGGAAGGACGAATCTTGTGTAAAGAAAAGGTCCTGTTTGTAGTTAGGA

1360

PRKN

PRKN-206

CCCGTTTCTTTAAATTCAATTCAAGTTCCTAATGGATCCATCCTGACTCAATAATTCTTTTTCTAACTTTTCGGGCTCCCAGA
GGGCAAAGAAATTTAAGTTAAGTTCAAGGGATTACCTAGGTAGGACTGAGTTATTAAGAGAAAAGGATTGAAAGCCCGAGGGTCT

1445

PRKN

PRKN-206

GTTTGGGGATTACAGATACTTCTTGTAAACTTGTTCATGGTAATCTTATGTCTCTCAACTACGCCCTGTGATTGTGTAAGCC
CAAACCCCTAATGTCTATGAAGGAACATTATGAACAAGGTACCATTAGAATACAGAGAGTTGATGCGGGACACTAACACATTTCGG

1530

PRKN

PRKN-206

AAGTATAACTATAAGGTATTTATCCACTCACTGGGTGCTGTAGTCCACATGCATTTACTAAGTGCCTACTTTAGTCAAAGTAGAT
TTCATATTGATATTCCATAAATAGGTGAGTGACCCACGACATCAGGTGTACGTAAATGATTCACGGATGAAATCAGTTTTCATCTA

1615

PRKN

PRKN-206

GTTCAATAAGAAATTTAGTGAACAACATGTAAATGAGAGCAGAGAAATTATAAAAGTATGAGAAACTACAAAAATAGTGACCCAT
CAAGTTATTCTTTAAATCACTTGTGTACATTTACTCTCGTCTCTTTAATATTTTCATACTCTTTGATGTTTTTATCACTGGGTA

1700

PRKN

PRKN-206

TCATTTATCCACTAGAAATAATCAATAACTCTTGATTACAAAACGATCAGGTGCTCAGCATTGTATTTGATGAGGCATGGGTCATG
AGTAAATAGGTGATCTTATTAGTTATTGAGAATAATGTTTTGCTAGTCCACGAGTCGTAACATAAACTACTCCGTACCCAGTAC

1785

PRKN

PRKN-206

AAAGGGTTAAGCAAGTAGGGTCTCTACAATTTTCATGACTTTTTCATTTAATGTTGATAGCTAAGGAAGGAGTATATGAAACACTTT
TTTCCCAATTCGTTTCATCCCAGAGATGTTAAAGTACTGAAAAGTAAATTACAACATATCGATTCCCTCCTCATATACTTTGTGAAA

1870

PRKN

PRKN-206

AAACAAAAGTCAGGCCAGTATTGAAGTACATTACAGATGAACTTTTTAAATAACTATTGAAGAAAAGGTAAAGAAAAAGGGAAGAG
TTTGTTCAGTCCGGTCATAACTTCATGTAATGTCTACTTGAAAAATTTATTGATAACTTCTTTCCATTTCTTTTTCCCTTCTC

1955

PRKN

PRKN-206

GCAGTGAGGTGTTAGGCTCCAGAGAAAAGTTCCTTGGAGATCTTTAGTCTTGAACCTGGACCTAGGAATTTGTGATTTGGCTTTGAA
CGTCACTCCACAATCCGAGGTCTCTTTCAAGGAACCTCTAGAAATCAGAACCTTGACCTGGATCCTTAAACACTAAACCGAAACTT

2040

PRKN

PRKN-206

TATGAAGGTGAGTATTACCGTGAGACTAGATGGCAAAGAGCATGCATCTAGGTGTACAGGAACTAGAAGAATCCTAGGCTACGCA
ATACTTCCACTCATAATGGCACTCTGATCTACCGTTTTCTCGTACGTAGATCCACATGTCTTTGATCTTCTTAGGATCCGATGCGT

2125

PRKN

PRKN-206

AGGACCTTCCCAGCTGGAGGGGACGGAGGTGCGGAGAGAACAGGATGGACGGTAGGGGAGGGGCAGTTTTATTTTACGAGGATGAA
TCCTGGAAGGGTCGACCTCCCCTGCCTCCACGCCTCTCTGTCTACCTGCCATCCCCTCCCCGTCAAATAAAATGCTCCTACTT

2210

PRKN

PRKN-206

ATGAAAGGAAGTCTGCGAAGTTCCTAGCAAGCCACCTAACCCGAAGTAGGTGCCCATAAACACTAGCTTTCCCCTCCTCTTTGAT
TACTTTCTTCAGACGCTTCAAGGATCGTTCGGTGGATTGGGCTTCATCCACGGGTATTTGTGATCGAAAGGGGAGGAGAAACTA

2295

PRKN

PRKN-206

TTAGCATTTAGGAAGTTAATGATGTAGACCTTCTAGCCATGAAAAGATTTTTACTCCTTTCTTTAGGTGATTAATCTAATAACTT
AATCGTAAATCCTTCAATTACTACATCTGGAAGATCGGTACTTTTCTAAAAATGAGGAAAGGAATCCACTAATTAGATTATTGAA

2380

PRKN

PRKN-206

TTTATTGGTGTGATGTTTATTCTCACCTAACTTTCCAAAACACTACAAGGAATATCTTAATAGGAGAGGAGCAATCTTAGCTCACA
AAATAACCACAGTACAAATAAGGAGTGGATTGAAAAGTTTTGATGTTCTTATAGAATTATCCTCTCCTCGTTAGAATCGAGTGT

2465

PRKN

PRKN-206

GCTGTATCAAGAATTCAGGTGACTGATAATTCTATGTGAAATGCACATATACACCGTCTTTATAACATTATCTGTGTATGTGCG
CGACATAGTTCTTAAGGTCCACTGACTATTAAGATACACTTTACGTGTATATGTGGCAGAAATATTGTAATAGACACATACACGC

2550

PRKN

PRKN-206

TGTGTGTGTATAAAGGCAGCATATATACTTTTCTATATCTTTCATCTGTGTATCTTAGCACATACATTCATATATTGATATCTGTA
ACACACACATATTTCCGTCGTATATATGAAAAGATATAGAAGTAGACACATAGAATCGTGTATGTAAGTATATAACTATAGACAT

2635

PRKN

PRKN-206

TCTATCATTTTATCTATATCTGTATATAGGTATATATCCAAGTTGACTGTGTATGTATAGTAATAGACAATCAGAATTCCTGAATG
AGATAGTAAATAGATATAGACATATATCCATATATAGGTTCAACTGACACATACATATCATTATCTGTTAGTCTTAAGGACTTAC

2720

PRKN

PRKN-206

ACTCATTATCATTTTTTGACTCCCTGTAACCTTGTAAATTTCTTTCTTTTCCGAAGAGGACATGCAGAAACACACACAACATTCCA
TGAGTAAATAGTAAAACTGAGGGACATTGAACATTTAAAGAAAGAAAAGGCTTCTCCTGTACGTCTTTGTGTGTGTTGTAAGGT

2805

PRKN

PRKN-206

GCTTCCCCGGTTGCATTCCACACCTGCGTCTGGGCAGTGGCGTTTTCTTCAAGGGAGTTACATGAGTCTCTGTCTTCACTTCCAAT
CGAAGGGGCCAACGTAAGGTGTGGACGCAGACCCGTCACCGCAAAGAAGTTCCTCAATGTACTCAGAGACAGAAGTGAAGGTTA

2890

PRKN

PRKN-206

GCTAGTCCCTTCACTGCTCACTCTCTGGTAACCCACTGTTACCTGGTGCCAATTTCTCCTATTTTTTATTCAAGGTAGACATCCT
CGATCAGGGGAAGTGACGAGTGAGAGACCATTGGGTGACAATGGACCACGGTTAAAGAGGATAAAAAATAAGTTCCATCTGTAGGA

2975

PRKN

PRKN-206

CAGTTCAAGGAGGTTGAGGTGGCCTGGTGCAGCTGTAGCTTAGTTTTTCAGTAGGACTCTTCTCCTGTGTCCCTAGGAAGATACTT
GTCAAGTTCTCCTCCAACCTCCACCGGACCACGTCGACATCGAATCAAAGTCAATCCTGAGAAGGACACAGGGATCCTTCTATGTGAA

3060

PRKN

PRKN-206

CACTCTGTGGGAACCAAACTCTGGACCCACCGCATCTGCAGCTGTCTATGCTTCACTGCCAGTTGCAGGATGGGTAAGATGGAC
GTGAGACACCCTTGGTTTTGAGACCTGGGTGGCGTAGACGTCGACAGATACGAAGTGACGGTCAACGTCCTACCCATTCTACCTG

3145

PRKN

PRKN-206

TATTTATATTGGAAGGTGTGCACTTCCAGGCCCAAGACTTGGACCTCTAAACTTTCCCTAATGTCCCTAATGGCTCCTGTCACT
ATAAATATAACCTTCCACACGTGAAGGTCCGGGGTTCTGAACCTGGAGATTTGAAAGGGATTACAGGGATTACCGAGGACAGTGA

3230

PRKN

PRKN-206

GCACAGGGTTGATTTACACCATGGCCGCCAACGTAGTGCTTGTCTTGTAAATGTTCTCCAAATAGCAGGATGTCATTAATAG
CGTGTCCCAACTAAAGTGTGGTACCGGCGGTTGCATCACGAACAAAGAACAATTACAAGAGGTTTATCGTCCTACAGTAATTATC

3315

PRKN

PRKN-206

AGTAGGACAATTGATGTTCCATGTGTTGTCTAGATGGTATGAGTCATTTGGGATCATATTAACCTGAAGGAGACAACCTATAGAA
TCATCCTGTAACTACAAGGTACACAACAGATCTACCATACTCAGTAAACCCTAGTATAATTTTACTTCTCCTCTGTTGATATCTT

3400

PRKN

PRKN-206

GTGTGCTGTTGTCCATCCATGTGAGAGAGAACTCTTCTAACAGGAATGGAAAAGCCTGCAGAAGCTACACTGATGGCCGCATACC
CACACGACAACAGGTAGGTACTCTCTCTTGAGAAGATTGTCCTTACCTTTTCGGACGTCTTCGATGTGACTACCGGCATATGG

3485

PRKN

PRKN-206

ACGCAGCCATGGCTTTCTGGGCCACTGTGGCGGGAGTTCGTGGGCTGACCATTTAGGCTCTGTAAGTTTTCTTTATGTTTCCTCT
TGCCTCGGTACCGAAAAGACCCGGTGACACCGCCCTCAAGCACCCGACTGGTAAATCCGAGACATTCAAAAGAAAATACAAAGGAGA

3570

PRKN

PRKN-206

ACAGGGTCATTTCTAAGCTTTTTTGTGTTGTTGTTTTGAGGCAGAGCCTCACTCTGTAGCCCAGGCTGGAGTGCAGTGGTGCGA
TGTCCCAGTAAAGATTGAAAAAACAACAACAACAAAACCTCCGTCTCGGAGTGAGACATCGGGTCCGACCTCACGTCACCACGCT

3655

PRKN

PRKN-206

TCTCGGCTCACTGCAAGCTCCCGCGTTCATGCCATTCACCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCGCCCGCCACCA
AGAGCCGAGTGACGTTTCGAGGGCGCAAGTACGGTAAGTGACGAGTTCGGAGGACTCATCGACCTAATGTCCGCGGGCGGTGGT

3740

PRKN

PRKN-206

CGCCGGGCTAATTTTTGTATTTTTGGTAGAGACGGGCTTTCGCTGTGTTAGCCAGGATGATCTCCATCTCCTGACCTCGTGATC
GCGGCCCGATTAAAAAACATAAAAAACCATCTCTGCCCGAAAAGCGACACAATCGGTCTACTAGAGGTAGAGGACTGGAGCACTAG

3825

PRKN

PRKN-206

CGCCTGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCACGCCTGGCCTCTAAGCTTTCTTTTTAACTTTGTTAT
GCGGACGGAGTCGGAGGGTTTACGACCTAATGTCCGCACTCGGTGGTGCAGGACCGGAGATTCGAAAAGAAAAATTGAAACAATA

3910

PRKN

PRKN-206

ATACAGGCACATTTTCATAAATGTTCTAATATTTCTCCATGAATTAGTAGCAGATTGGGAGGTCTATAAAGGTTTTAGTCTACC
TATGTCCGTGTAAGATTTTACAAGATTATAAAGAGGTAATTAATCATCGTCTAACCTCCAGATATTTCCAAAATCAGATGG

3995

PRKN

PRKN-206

ATGTTGCTGAAAGCAAGATGGAGAATATTTTTACATAACAGCTGTGAGAGAAAAAGGTAGAATACAGCAGCTTCATAGGGTCGC
TACAACGACTTTCGTTCTACCTCTTATAAAAAGTGATTGTCGACACTCTCTTTTTCCATCTTATGTCGTCGAAGTATCCCAGCG

4080

PRKN

PRKN-206

AAAGTGAAAAAAGTATGTGTGTGCTTGAGCATGTGTATGCGAGTGACTGTTTGGTTAGAAAATAGGAAAAGCATTATGAAGGACTTG
TTTCACTTTTTTTCATACACACACGAACCTGTACACATACGCTCACTGACAAACCAATCTTTATCCTTTTCGTAATACTTCTGAAC

4165

PRKN

PRKN-206

GATAGTTCCAAGAGGGGAAAGGAGAAGCCGCACCTTTAGGTGCGCCCTTGCTCAGATTAAGTTGACCGATTACTTACACATCCA
CTATCCAAGGTTCTCCCTTTCTCTTCGGCGTGGAAATCCACGCGGGAACGAGTCTAATTCAACTGGCTAATGAATGTGTAGGT

4250

PRKN

PRKN-206

TGGCATTAAAAATACCAAGGAATTGATTTTTCTTTGTTTGTATTACATATTGCTTTGAAGTAAGTGGGATAACAGAATTTTGAAAA
ACCGTAATTTTATGGTTCCTTAACATAAAAAGAAACAAACATAATGTATAACGAAACTTCATTACCCCTATTGTCTTAAAACTTTT

4335

PRKN

PRKN-206

TCTTTTAGGTGTTAAGAAATTATCTTTTATATTATTAGTATTATTCATTTCTCTAGAAAAAGGGCTTTTGAAGAGCTCTTATAGG
AGAAAAATCCACAATTCTTTAATAGAAAAATATAATAATCATAATAAGTAAAGAGATCTTTTTCCCGAAAACTTCTCGAGAATATCC

4420

PRKN

PRKN-206

CGTTAAAGATTGGGTATAAAATGAACATGTTTATTTTGTATTTTGTACAAATTACATAGGAAATAGGCTTATCTAAATAGACTCC
GCAATTTCTAACCCATATTTTACTTGTACAAATAAAACATAAAACAATGTTAATGTATCCTTTATCCGAATAGATTTATCTGAGG

4505

PRKN

PRKN-206

AATAACTTTTCTTACTATTAATAATCGCCTTGGGGCTGATTTCAAATTCATGTATTGAGCTTGTCTCCTGTTTGCATAAACTTGTG
TTATTGAAAGAATGATAATTTTAGCGGAACCCCGACTAAAGTTAAGTACATAACTCGAACAGAGGACAAACTGTATTTGAACAC

4590

PRKN

PRKN-206

TGGTTCGTTTTCCAGTAAAAATACATGGCTTTTAAAGATTTTTTTTTCTACAGAGTATTTTAAAGGGATAAAAAAATTAGGATTT
ACCAAGCAAAAAGGTCATTTTTATGTACCGAAAAATTCTAAAAAAAAGATGTCTCATAAAATTTCCCTATTTTTTTTTAATCCTAAA

4675

PRKN

PRKN-206

ATATATATTGATTAATTAGTAATCCATAACCATACTCTGAGAACTGAATATTTGGATGGTTTTCGAGATGGCACAATAGACAAA
TATATATAACTAATTAATCATTAGGGTATTGGTATGAGACTCTTTGACTTATAAACCTACCAAAGCTCTACCGTGTATCTGTTT

4760

PRKN

PRKN-206

ATCTTGCAGTAGAAGAATCCCTGTTGGATAACCTTTTATCCCTAAATTCTACTTTTTTATTTGCCAATAAAATGTGAGAAAATGT
TAGAACGTCATCTTCTTAGGGACAACCTATTGGAAAATAGGGATTTAAGATGAAAAAATAAACGGTTATTTTACTCTTTTTACA

4845

PRKN

PRKN-206

TTAACGTTTTTACTTTGATGCAATAGTAATTTTTCTTTTGTATAGTGGGGAAATTCAGATTCTATTGTTATAACATAGTTATAATT
AATTGCAAAAATGAAACTACGTTATCATTAAAAAGAAAATATCACCCCTTTAAGTCTAAGATAACAATATTGTATCAATATTAA

4930

PRKN

PRKN-206

AAATTACCAAGGAATTTTATTTTCTTTGTTTGTATTACATATTGCTTTAAAAATAAGTGGGATAGCAGAATTTTGAAAACTGTT
TTTAATGGTTCCCTTAAAAATAAAAAGAAACAAAAACATAATGTATAACGAAATTTTATTACCCCTATCGTCTTAAAACTTTTAGACAA

5015

PRKN

PRKN-206

ATTTCACTGTTGAATTTTCTCTAATTATGTTTATGGGATTACTAGTAAATCACTATATACAAGTCCCTAAATTTTTTTGATTCCCT
TAAAGTGACAACCTTAAAAAGAGATTAATACAAATACCCTAATGATCATTTAGTGATATATGTTTCAGGATTTAAAAAACTAAGGGA

5100

PRKN

PRKN-206

PCR Forward

actttacaatgcctg

TAAAATACTTTGGAGGAAAAAATATTTAAAATGTTTTAAAGATTTAAATTTTTTAAAACATTCATTTAAAACCTTTACAATGCCTG
ATTTTATGAAACCTCCTTTTTTTATAAAATTTTACAAAATTTCTAAATTTAAAAATTTTGTAAAGTAAATTTTGAATGTTACGGAC

5185

PRKN

PRKN-206

PCR Forward

gtactatggg

GTACTATGGGAATAGCAAAATAAACATAGGAACTACTTTCCAGGAGATCACAGTCTATGAGAAAAGGAGAAGATATGAATACTGTG
CATGATACCCTTATCGTTTTTATTTGTATCCTTGATGAAAGGTCTCTAGTGTCAGATACTCTTTCCTCTTCTATACTTATGACAC

5270

PRKN

PRKN-206

GTGTAATAACGGATCAATAGAAATATATACAAGCAGATGGGATGATTTGATAGGTTAATTGGGAATTCTGAGTCAGGGAAGACTT
CACATTATTGCCTAGTTATCTTTATATATGTTTCGTCTACCCTACTAACTATCCAATTAACCTTAAGACTCAGTCCCTTCTGAA

5355

PRKN

PRKN-206

CCAGAAAGAGATTATATTTTAGCTCAGGTTTAAATCAAAAAGATTGATAAATGTGTTAACATAAAAAATGTAAAATTAGGAGAATCA
GGTCTTTCTCTAATATAAAATCGAGTCCAAATTAGTTTTCTAACTATTTACACAATTGTATTTTTTACATTTTAACTCCTCTTAGT

5440

PRKN

PRKN-206

Sanger Sequencing Primer

tct

GTTTTCTATGTAGTTCATTGAGTGCCTCCAATTTTTAAGATGTTGTGTTGGTATACATGAGCTTAATGCTTAGCAGCTCCGGTCT
CAAAAAGATACATCAAGTAACTCACGGAGGTTAAAAATTTTACAACACAACCATATGTACTCGAATTACGAATCGTTCGAGGCCAGA

5525

PRKN

PRKN-206

Sanger Sequencing Primer

ttgcacagagcacagtc

TTGCACAGAGCACAGTCTACACAACCTCCAGGATTACAGAAATTGGTCTAAAGCACGTGCTGCCTTTCCACACTGACAGGTA
AACGTGTCTCGTGTGATGTTGGGAGGTCCTAATGTCTTTAACCAGATTTCTGTCACGACGGAAGGTGTGACTGTCCATGA

5610

PRKN

PRKN-206

AGAGGAAACATCTTCCTTTCTCTCTGCAGGAGCCCCGTCCTGGTTTTCCAGTGCAACTCCCGCCACGTGATTTGCTTAGACTGTT
TCTCCTTTGTAGAAGGAAAGAGAGACGTCCTCGGGCAGGACCAAAAGGTCACGTTGAGGGCGGTGCACTAAACGAATCTGACAA

5695

PRKN

PRKN-206

S P V L V F Q C N S R H V I C L D C

ENSE00002169394

PRKN-206

Donor Template SNV -> Rev

TGACAA

Donor Template SNV -> Rev

gRNA Protospacer

GTGTGACAAGACTCAATGA

TCCA... 5780

PRKN

PRKN-206

F H L Y C V T R L N D R Q F V H D P Q L G Y S L P C V G K

ENSE00002169394

PRKN-206

Donor Template SNV -> Rev

gRNA Protospacer

PAM

Silent SNV SNV

AGGTGAATATGACACACTGTTCTGAGTTACTAGCCGTCAAACAAGTGCTGGGAGTTGAACCGATGAGGGACGGAACACACCcatt

Donor Template SNV -> Rev

GTCTAGCATGTTTTCTCTCCATCTCTAATGCTAATGAAGAACAGAAGAACAATTATTGATGTAAAACCTGGCTTAGATATACGTAA

PRKN

PRKN-206

S S M F S L H L (in frame with PRKN-206)

Donor Template SNV -> Rev

cagatcgta

Donor Template SNV -> Rev

ACCCTAGCAGAAGAATTTAAATTTGATCATTGCTGGATATGAAACATTAATGTTTGGATCGCAAAAAGATAAAAAGTTCTGGGGAAT

PRKN

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GAAGGAATTGTGTTGAACTGGAAAATGCATTATTTGCATAAAGGCATTGAGAATAAGTTTGTCAATATTATTCAGCCAAGGTATA

PRKN

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CTAAGTTTTTCTGTGGGTTAGAGTCACTCTCCATGTTCTAGATTTGTTACCGTGGAAGTACTAGAGCAGTATTACCTAATTTTTAAAT

PRKN

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ggtacaagatctaacaatggcacc

PCR Reverse

CGTATACCTCTATCACTCAAAATGTTGAACACATACCCAATATATATAAAATAACATATGTGAAAAAGAAAGCAGAATGAGATAA

PRKN

PRKN-206

ACCTGAACTACTTAATATTTTATCTTTTCACATTACAAAGCACCCCTTTACTTGTACTATACTGTTATTACATATATACATTTTAA
TGGACTTGATGAATTATAAAAATAGAAAAGTGTAATGTTTTCTGTTGGGAAATGAACATGATATGACAATAATGTATATATGTAAAATT

6290

PRKN

PRKN-206

TGGAAGTGAAATTCATGTAACCAATTAACCATTTACAAGTGTAACAATTCAGTGGCATTGTTGTCATTACAAATGTTGCACAACCA
ACCTTCACTTTAAGTACATTGGTTAATTGGTAAATGTTTACATGTTAAGTCACCGTAAAAACACGTAAGTGTACAACGTGTTGGT

6375

PRKN

PRKN-206

CTACCTCTGCCTGGCTTCAAACCTTTCTGAACACCTCCTACCCAGCTAATCACTGCCTGTGACCCCTGTCTAGCCCTGGCCAC
GATGGAGACGGACCGAAGTTTTGAAAGACTTGTGGAGGATGGGTCGATTAGTGACGGACACTGGGGGACAGGATCGGGACCGGTG

6460

PRKN

PRKN-206

CACCAATCACTTTCTTTCTCTATGGATTTGCCTATTGTAGGTATTTCTATAAAAAGAAATCGTACAATAGGTGACCTTTTCGTGTC
GTGGTTAGTGAAAGAAAAGAGATACCTAAACGGATAACATCCATAAAGGATATTTTCTTTAGCATGTTATCCACTGGAAAAGCACAG

6545

PRKN

PRKN-206

TGCCTTATTTCACTTAGCATAGTGATTTGAGGTTTATTCAAGTTGTAGCGTGATGAATATTTCTTTCTCTTTGTGGCTGAAT
ACGGAATAAAGTGAATCGTATCACATAAACTCCAAATAAGTTCAACATCGCACATACTTATAAAGAAAAGGAGAAAACACCGACTTA

6630

PRKN

PRKN-206

AATATTCCTACTGTGTGGATACCCACAATTTGTGTGTCCATTCATCTGCTGATGGGCATTTGTGTTGTTTCCGTCTTTTTGGCTA
TTATAAGGTGACACACCTATGGGGTGTAAACACACAGGTAAGTAGACGACTACCCGTAAACACAACAAAGGCAGAAAAACCGAT

6715

PRKN

PRKN-206

TTATGAATAATGCCGTTGTAACATTCATATATAAGTTTTCTGTATGAACATTTGCTTTCATTTACCTTGGATATATACCGAGAAG
AATACTTATTACGGCAACATTTGTAAGTATATATTCAAAGACATACTTGTAAACGAAAGTAAATGGAACCTATATATGGCTCTTC

6800

PRKN

PRKN-206

CAGAAATCGAAGTTTAAACCTTTAGGAGAAGTGCCTCACTGTGTTCCACAGCTGCTGTACCGTTTTATATTGCCACCAGCAGTGATG
GTCTTAAGCTTCAAATTGGAAATCCTCTTGACGGGTGACACAAGGTGTCGACGACATGGCAAAATATAACGGTGGTTCGTACATC

6885

PRKN

PRKN-206

CAATGTCCCAGGTTTCTCTCTCCACATTCCTGTCGTCCTTGTACTGTTTCTAACTAGTCATCCTAGTAAGTGTGAAGTGGT
GTTACAGGGTCCAAAAGAGAGAGAGGTGTAAGAACAGCAGTGAACAATGACAAAAGATTGATCAGTAGGATCATTACACTTCACCA

6970

PRKN

PRKN-206

GTCTTATTGTGGATTTGATTTTCATTTCTCTAATGACTGTGATGTTGATTATCTTAATTCATATCTCTTCTTATAAGAATGTCG
CAGAATAACACCTAAACTAAAAGTAAAGAGATTACTGACACTACAACCTAATAGAATTAAGTATAGAGAAGGAATATTCTTACAGC

7055

PRKN

PRKN-206

GTTCAAGTCCTTTCTTTGCTCATTTTTAAATTGAGTTATGTTTTTGTGTTGAGTTGTAAGAGTTCTTTATATATTCTGGATACT
CAAGTTTCAGGAAAAGAAACGAGTAAAAATTTAACTCAATACAAAAACAACAACCTCAACATTCTCAAGAAATATATAAGACCTATGA

7140

PRKN

PRKN-206

GGATCCTTACCAGATATAGGATATGCACATATTTCTCCCATTCTATAGGTTGTCTTTTCACTTTCTTCATAACGTCCTTTGGTGA
CCTAGGAATGGTCTATATCCTATACGTGTATAAAGAGGGTAAGATATCCAACAGAAAAGTGAAAGAAGTATTGCAGGAAACCACT

7225

PRKN

PRKN-206

ACAAAAGTTTCTAGTTTTGATGAAATGCAATTTATCTGTTTTTGTGTTGTTGCTAATACTTTTTGTGTCAAACAAAAGACTTCA
TGTTTTCAAAGATCAAACACTACTTTACGTTAAATAGACAAAAACAACAACGATTATGAAAAACACAGTTTGTCTTCTGAAGT

7310

PRKN

PRKN-206

TTGCCATATCTGAGATCATGATGATTTGCTTCCATATTTTCTACCAATAGCTTACCTCTTGTATTTAGGTCATTAATCTAGTTTG
AACGGTATAGACTCTAGTACTACTAAACGAAGGTATAAAGATGGTTATCGAATGGAGAACATAAATCCAGTAATTAGATCAAAC

7395

PRKN

PRKN-206

AGGTAATTTATGTACCTGGAGTGAAGTAAAAGTTCTATCTCTCTATGTATAAATGACTGCAATGTGACTAAATATGTTTCAT
TCCATTAATAACATGGACCTCACTTCATTTTTCAAGGATAGAGAGAGATACATATTTACTGACGTTACACTGATTTATACAAAGTA

7480

PRKN

PRKN-206

TAATTCCTCAAACCTTAATTTGAAACTATGGGATACCTTGACTCAATGGTGAGGTTTTAAGTTCAATTTATTTCAAGATTTAGTT
ATTAAGAAGTTTTGAATTAACCTTTGATACCCTATGGAACCTGAGTTACCACTCCAAAATTCAAGTTAAATAAAGTTCTAAATCAA

7565

PRKN

PRKN-206

TTAATGTCAATTATAGCTGAAAAATATACCTCCAAATGATAAAAAGATCCAAATGGAATAAATTAATTTCTTTGTTGACTTTGTA
AATTACAGTTAATATCGACTTTTTATATGGAGGTTTACTATTTTTCTAGGTTTACCTTATTTAATTAAGAAACAACCTGAAACAT

7650

PRKN

PRKN-206

AATTATGATACTCACTTTTTAAGCATATCTACCAATAATGCAATGATTTTTAAAACCTAAGATTCACATAATATATGTTAACATATT
TTAATACTATGAGTGAAAATTCGTATAGATGGTTATTACGTTACTAAAAATTTTGATTCTAAGTGATTATATACAATTGTATAA

7735

PRKN

PRKN-206

GTTAAGGAAAACCTTGTTGAAAGTTATTGTGCCTTTCTTTTTAACAAAAGCATCCAAAATCTAGTGAAGTTTATTATTTACAGATT
CAATTCCTTTTTGAACAACCTTTCAATAACACGGAAAAGAAAAATTGTTTTCGTAGGTTTTAGATCACTTCAAATAATAAATGTCTAA

7820

PRKN

PRKN-206

GGAAAACCTCTGTAATGCTTTTTAATGTGACAATTTTGTGTTGGTAAGCCTTCTGCCTTCACAAAGCCACAAACAATAGAAACATTT
CCTTTTGAGACATTACGAAAATTACACTGTTAAAACAAAACCATTCGGAAGACGGAAGTGTTTCGGTGTTTGTATCTTTGTA

7905

PRKN

PRKN-206

CTAAACACACATTTTCAAGTCTTCCCTTCACACTCTATCTTTTTAGTTATCAGTTCATTTTGAACCCATTTTCTTTTAATGTGTA
GATTTGTGTGTAAAAGTTCAGAAGGGAAGTGTGAGATAGAAAAATCAATAGTCAAGTAAAACCTTGGGTAAAAGAAAAATTACACAT

7990

PRKN

PRKN-206

TCTTTTTATTTTAGACGATTTCAAACATACAAAAGTAAGGAAAAATACTACAGTGAACCTTCTGACCCATTAGTCAGGATTTG
AGAAAAATAAAATCTGCTAAAAGTTTGTATGTTTTTCATTCCTTTTTATGATGTCACCTTGGAAAGGACGTGGGTAATCAGTCCTAAAC

8075

PRKN

PRKN-206

CAGTGTACCAAGGTGCTCTCGACCTTTCTTGTAAATCTCGCCGAATGACCTGCAAGCAGCCATTTTCTCAGGACCTCTGGCTCC
GTCACATGGTTCCACGAGAGCTGGAAAGAACATTAAGAGCGGCTTACTGGACGTTTCGTTCGGTAAAAGAGTCTGGAGACCGAGG

8160

PRKN

PRKN-206

CTTTCGTAGGAAATAGTATTTAAAAGTCTTGGTGCTTGGAAATGCTCATTGTCACCATGTTGGTTACTGTTTTCTAGGCCTAGTGGA
GAAAGCATCCTTTATCATAAATTTTCAGAACCACGAACCTTACGAGTAACAGTGGTACAACCAATGACAAAGATCCGGATCACCT

8245

PRKN

PRKN-206

ATAAGCTAGGAGACTTTTTTTTTTTAAGTACAAATGCAATATTAGTTATACTAACATTTTTCAGTTCAAATCCAGTGTACCAA
TATTCGATCCTCTGAAAAAAAAAAAAATTCATGTTTACGTTATAATCAATATGATTGTA AAAAGTCAAGTTTAGGTCACAATGGTTT

8330

PRKN

PRKN-206

TTTTTCATTGAAAAGTCACCAATATTACAACCTGTTGTTTTCTTTCACCCCTTGGCAAAAATTTCTGTTACTGAGTGATACCAACAAA
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8415

PRKN

PRKN-206

TACTCATTGTCCTTACTTTGGAATGCACCCACAACAGTATCAGTATTACAGTATCGACACCATCACCTAAGTGTGATTATTGAAA
ATGAGTAAACGGAATGAAACCTTACGTGGGTGTTGTCATAGTCATAATGTCATAGCTGTGGTAGTGGATTACACTAATAACTTT

8500

PRKN

PRKN-206

ACAATGTTAAGATTTTTGCAGTTTTGTTTTGTCATTAGGGTATATCCTTATAGGGATATAAACTCATATAAGTTAATGTATAGTTA
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8585

PRKN

PRKN-206

TGTCATCAATTGAATATGTATTTCTCATTGCTTTTTTTAAATTTTTAATTAATTAATTTATTTTTTTGAGATGGAGTCTTGCT
ACAGTAGTTAACTTATACATAAAGAGTAACGAAAAAAAAATTTAAAAAATTAATTAATTAATAAAAAAACTCTACCTCAGAACGA

8670

PRKN

PRKN-206

CTGTCGCCGAGGCTGGAGTGCAGTGGCATGATCTCGGCTCACTGCAACCTTGGCCTCCCGGGTTCAAGTGATTCTCCTGCCTCAG
GACAGCGGCTCCGACCTCACGTACCGTACTAGAGCCGAGTGACGTTGGAACCGGAGGGGCCAAGTTCACTAAGAGGACGGAGTC

8755

PRKN

PRKN-206

CCTCCCAAGTAGCTGGGACTACAGGTGCATGCCACCATGCCCTGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTTCGCCATGT
GGAGGGTTCATCGACCCCTGATGTCCACGTACGGTGGTACGGGACGATTAATAAACATAAAAAATCATCTCTACCCCAAAGCGGTACA

8840

PRKN

PRKN-206

TAACCAGGCTGGTCTCTAACTCCTGACCTCAGGTGATCCGCCACCTCAGCCTCCCAAGGTGCTGGGATTACAGGCATGAGCCAC
ATTGGTCCGACCAGAGATTGAGGACTGGAGTCCACTAGGCGGGTGGAGTCGGAGGGTTCCACGACCCTAATGTCCGTA CT CGGTG

8925

PRKN

PRKN-206

TGCACCTGGCCTTTCATTGCTTTTAAATTTATTGTGTTTTTATAATATGTAAAATATTTCCATTATTCCAAAGCAAAGCTACAA
ACGTGGACCGGAAAGTAACGAAAATTTAAATAACACAAAAGTATTATACATTTTATAAAGGTAATAAGGTTTTCGTTTTCGATGTT

9010

PRKN

PRKN-206

AACATGCTATATTCAAAGAAATACACCCTTTATCTACGTTCTCTTTCTCTCCCAAAGGTAAATAATAATAATAAAAGGTAAATA
TTGTACGATATAAGTTTTCTTTATGTGGGAAATAGATGCAAGAGAAAGAGAGGGTTTTCCATTTATTATTTATTTATTTCCATTTAT

9095

PRKN

PRKN-206

ATATTCCTTTTCTCTCCCAAAGGTAAACGTTTATTAAAAACAATCACCTATTTTAAAAATAGGTAAACATACTATAGATGATATC
TATAAGGAAAAGAGAGGGTTTTCCATTTGCAAATAATTTTTGTTAGTGGATAAAAATTTTTATCCATTTGTATGATATCTACTATAG

9180

PRKN

PRKN-206

AAAAATGGTATAGATGTGTCACCTTCTTAAGTAGAAAGTAGATTATACACATTTTTCTTTACCTTGCTTTTTTCACTCTATAGTA
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9265

PRKN

PRKN-206

CCTATTATATTTTAAAGATCACTCCCTAGTCCGATATAGATATTTTCTTACATATAAAAAATATATAGCATTATTGAATTCCTTTG
GGATAATATAAAAATTTCTAGTGAGGGATCAGGCTATATCTATAAAAGAATGTATATTTTTATATATCGTAATAACTTAAGGAAAC

9350

PRKN

PRKN-206

TGTAGGTATAGCTTACTTTTTCTTACTGGCAAACACTAAGTTTTTCATTTTTTTACTGTAAATATTGCTACAACCTAATAGACTTG
ACATCCATATCGAATGAAAAAGGAATGACCGTTTGTGATTCAAAGTAAAAAATGACATTTATAACGATGTTGATTATCTGAAC

9435

PRKN

PRKN-206

TGTGCACCCGTATTTTCATATTGTTGTCAGAGTATTACTGGGATCTGCTCCCTAGAAGAGGGGTTACTGCACCAAAGGGAAAAATG
ACACGTGGGCATAAAAAGTATAACAACAGTCTCATAATGACCCTAGACGAGGGATCTTCTCCCAATGACGTGGTTTTCCCTTTTTAC

9520

PRKN

PRKN-206

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9605

PRKN

PRKN-206

GCTCTCCACTTCTCCCAACAGGGGAGCCGCAAGGCTTTTGTCTTTGTTTCTAATTATATATTTGAGAAATGTTATTCTATGTAG
CGAGAGGTGAAGGAGGGGTTGTCCCTCGGCGTTCCGAAAACGAAACAAAGATTAATATATAAACTCTTTTACAATAAGATACATC

9690

PRKN

PRKN-206

TTGGCTGTATGTTTCTTTTTAATTTTAAACAAAGTTGAGCATCTTTTCATGTGTTTAGGATCCTTTGGTGTCTTTTTCTCAGT
AACCAGACATACAAAGAAAAATTTAAATTTGTTTCAACTCGTAGAAAAGTACACAAATCCTAGGAAACCACAAAGAAAAAGAGTCA

9775

PRKN

PRKN-206

CATGTTGAAAACATCACCTTTTCTTTCAGGGACAGGTTACATATATTATTTTCAAAAATATTTTCTGTATAGCACACTGTTGACA
GTACAACCTTTTGTAGTGAAAAGAAAAGTCCCTGTCCAATGTATATAATAAAAGTTTTTATAAAAGACATATCGTGTGACAACCTGT

9860

PRKN

PRKN-206

GCCCTTGTAGATACAGAAAAGATTAGCAAAGTTGGGTCACTTGTAAAGAATGTGCGTAAATTAACCTTTAATTTCCGGTGGTTCTT
CGGGGAACATCTATGTCTTTTCTAATCGTTTTCAACCCAGTGAACATTTCTTACACGCATTTAATTGAAATTAAGCCACCAAGAA

9945

PRKN

PRKN-206

TGCCACGAGATAACTAACAACCTCCTTGAAAAGAATTTTGCCTGGTCAAGCTCTATGTTGTTAAAATGCATTATATGGATTCTAC
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10,030

PRKN

PRKN-206

TAAATATTAATTGTGTTTTAACACCTTTTAGACTTTTTATTTTTAAATTCAGTATGCCAATGCCATCCTCAGAATCTTATGCACT
ATTTATAATTAACACAAAATTTGTGGAAAATCTGAAAATAAAAATTTAAGTCATACGTTACGGTAGGAGTCTTAGAATACGTGA

10,115

PRKN

PRKN-206

CTTGGGTTCAACTTCTTGGTTTTAATAGGGAGTGAGGCAGGGATGAATGGATGGAAAAGATGTTGCGTTGCAAAGTTTCTTTGGAA
GAACCCAAGTTGAAGAACCAAAATTTATCCCTCACTCCGTCCCTACTTACCTACCTTTCTACAACGCAACGTTTCAAAGAAACCTT

10,200

PRKN

PRKN-206

TCCTTCTACACATTTTTTGTGAATGTGGCCACCTCATCACTGGTACTTAAATATAATACTCATAGAAAATTTGCTTTTTATTTTTT
AGGAAGATGTGTAACAAACACTTACACCGGTGGAGTAGTGACCAATGAATTTATATTATGAGTATCTTTAAACGAAAATAAAAAA

10,285

PRKN

PRKN-206

AAAAACCAGTTGCTATTGAGAACTTATATCCCTGGCACCTCTTTTCCTTAATGTTTAATAACTACAAGTGCTAAAAGTTACATA
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10,370

PRKN

PRKN-206

TTTGTGTGTTTTGCTATTTTTAAAAAATGAACTAGTAACCAGAAGCTGAGACAGGCTAGAAACAACCTGTACTGCCATTCAACTGTG
AAACACACAAAACGATAAAAATTTTTACTTGATCATTGGTCTTCGACTCTGTCCGATCTTTGTTGACATGACGGTAAGTTGACAC

10,455

PRKN

PRKN-206

TAGTCAGTCTTCCACATGGCATGGTTCGGTTCATCCCTGTTTCTTCATAGCTTCAGCCATGTTTTAGTATGTATCTCCGTAAGT
ATCAGTCAGAAGGTGTACCGTACCAAGCCAAGGTAGGGACAAAAGAAGTATCGAAGTCGGTACAAAATCATACATAGAGGCATTCA

10,540

PRKN

PRKN-206

ACTCACTCATGAGAAAATATAGTTCGGTTTTGTCACAAGATTGTTTAGCATGTGTTATTTTCAGCCTTTTTAAAACTGTATATCCA
TGAGTGAGTACTCTTTTATATCAAGCCAAACAGTGTCTAACAATCGTACACAATAAAGTCGGAAAAATTTTTGACATATAGGT

10,625

PRKN

PRKN-206

ATTACAATGTTTCCCTATATTATGCAAAGAGAACTTTTCAGATGTCATAGATTTTTATTTTGTCAAGAACAACTGGATTTTTCTTT
TAATGTTACAAAGGGATATAATACGTTTCTCTTTGAAAGTCTACAGTATCTAAAATAAAACAGTTCTTGTGTTGACCTAAAAGAAA

10,710

PRKN

PRKN-206

AATATTTGCTCAACAGAGACACTCATTTTTGTTTATTACTTGTCTTAGTTTTAAATGTCTTGCTAAATATAATGGCTCCCTACTCT
TTATAAACGAGTTGTCTCTGTGAGTAAAACAAATAATGAACGAATCAAAAATTTACAGAACGATTTATATTACCGAGGGATGAGA

10,795

PRKN

PRKN-206

CGTTAGCTTCTGTCTCGGAGCCTATTTTATAATCACATTGATGTTACAGTATGTACCGACATCGTCAGTGTGCGGTTTTCTCAT
GCAATCGAAGACAGAGCCTCGGATAAAAATATTAGTGTAAC TACAAGTGCATACATGGCTGTAGCAGTCAACAACGGCAAAAAGAGTA

10,880

PRKN

PRKN-206

TTTCCTCATGTTTAGATTATTACTTCTATCTTTAATTAATAGTTTCTTTGAAGGATTATTTTTAAGTCACCTATCTGTTTTAATA
AAAGGAGTACAAATCTAATAATGAAGATAGAAATTAATTATCAAAGAAACTTCTTAATAAAAATTCAGTGGATAGACAAAATTAT

10,965

PRKN

PRKN-206

GGGTTAATTTAATTAATAATGAGATAAGTTATTCAATTCTTTTAGCCAAGCACAGATGACCTTCTGCTGAAAGGTGACTGACAA
CCCAATTAATTAATTTTACTCTATTCAATAAGTAATAAGAAAATCGGTTTCGTGTCTACTGGAAGACGACTTTCCACTGACTGTT

11,050

PRKN

PRKN-206

GAGAGGGCTCCACTCTCCAGTGGTGGTTGTGGGACTCCCTGTTCCCTTGGGATAACCCCTTTGCAATACATGACATATGACCATC
CTCTCCCAGGTTGAGAGGTCACCACCAACACCCTGAGGGACAAGGGAACCCATTGGGGAAACGTTATGTACTGTATACTGGTAG

11,135

PRKN

PRKN-206

CAATATACAGGCTAGGGTATGAGATGGTACACATATCATTCTGTACATTAAGTCTTTGTGGAGGTCAATTCTTTTCATATTTTTT
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11,220

PRKN

PRKN-206

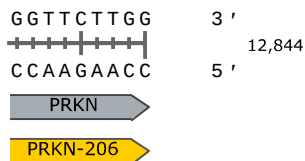
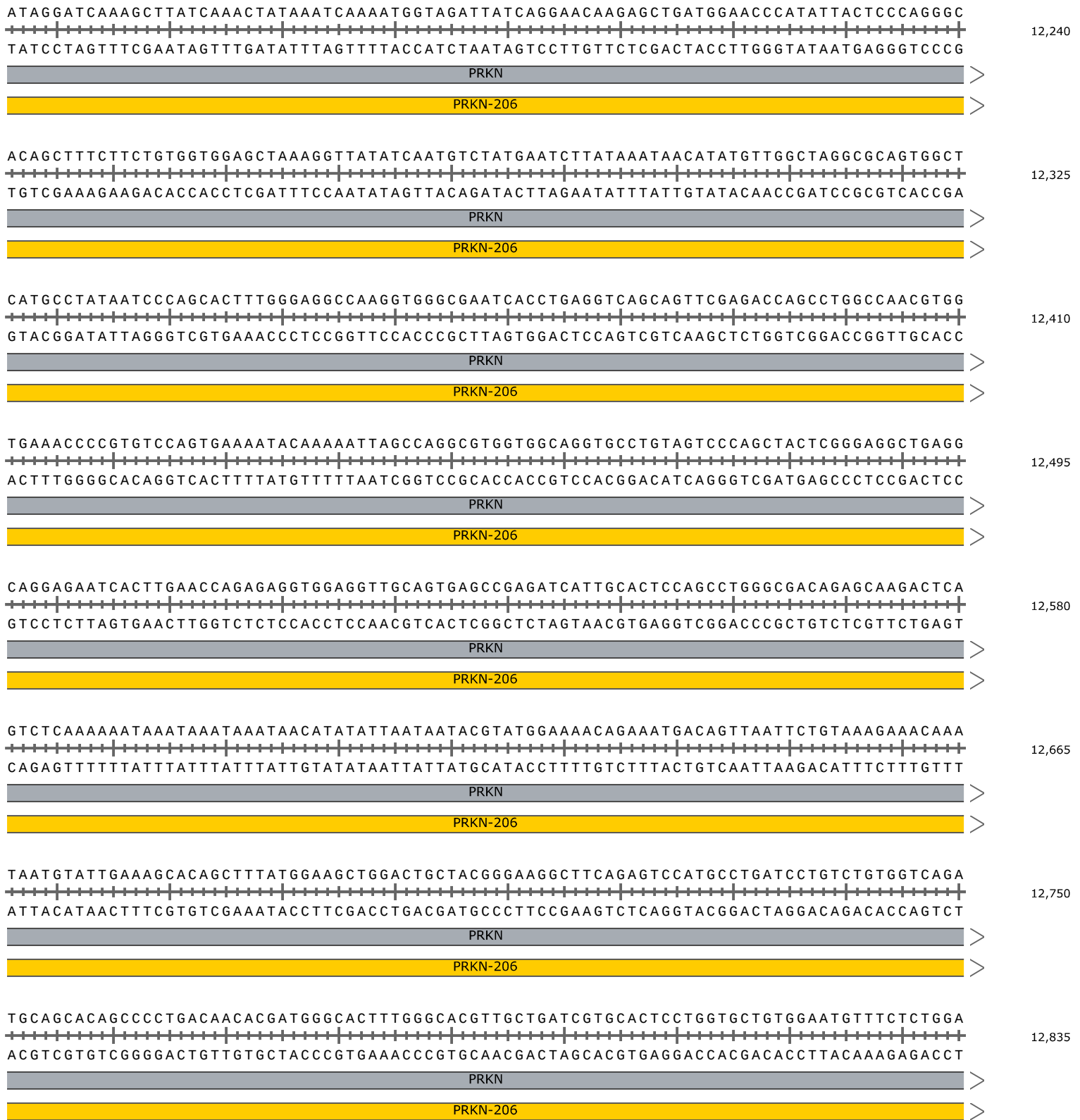
GCATAATACCTGTGTAAGTCCCTAATATTACCCCATAAACCAGTGAACCATTTTTTCACAAATCCTGGTTTTATATACGGCACCTCA
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11,305

PRKN

PRKN-206





Feature		Location	Size			Type
PACRG		1 .. 12,844	12,844 bp	■	←	gene
/note	= gene ENSG00000112530 Protein coding					
PRKN		1 .. 12,844	12,844 bp	■	→	gene
/note	= gene ENSG00000185345 Protein coding					
PACRG-201		1 .. 12,844	12,844 bp	■	←	prim_transcript
/note	= primary transcript ENST00000337019 Protein coding					
PACRG-203		1 .. 12,844	12,844 bp	■	←	prim_transcript
/note	= primary transcript ENST00000366889 Protein coding					
PRKN-201		1 .. 12,844	12,844 bp	■	→	prim_transcript
/note	= primary transcript ENST00000338468 Nonsense mediated decay					
PRKN-202		1 .. 12,844	12,844 bp	■	→	prim_transcript
/note	= primary transcript ENST00000366892					
PRKN-203		1 .. 12,844	12,844 bp	■	→	prim_transcript
/note	= primary transcript ENST00000366894 Nonsense mediated decay					
PRKN-204		1 .. 12,844	12,844 bp	■	→	prim_transcript
/note	= primary transcript ENST00000366896					
PRKN-205		1 .. 12,844	12,844 bp	■	→	prim_transcript
/note	= primary transcript ENST00000366897					
PRKN-206		1 .. 12,844	12,844 bp	■	→	prim_transcript
/note	= primary transcript ENST00000366898					
PRKN-207		1 .. 12,844	12,844 bp	■	→	prim_transcript
/note	= primary transcript ENST00000479615 Nonsense mediated decay					
PRKN-212		1 .. 12,844	12,844 bp	■	→	prim_transcript
/note	= primary transcript ENST00000673871 Nonsense mediated decay					
PRKN-213		1 .. 12,844	12,844 bp	■	→	prim_transcript
/note	= primary transcript ENST00000674006 protein_coding_CDS_not_defined					
PRKN-221		1 .. 12,844	12,844 bp	■	→	prim_transcript
/note	= primary transcript ENST00000674436 protein_coding_CDS_not_defined					
PRKN-223		1 .. 12,844	12,844 bp	■	→	prim_transcript
/note	= primary transcript ENST00000674501 Retained intron					
PRKN-202		5640 .. 5776	137 bp	■	→	CDS
/codon_start	= 1					
/note	= coding sequence ENSP00000355858					
/translation	= SPVLVFAQNSRHVICLDCFHLYCVTRLNDRQFVHDPQLGYSLPCV 45 amino acids = 5.2 kDa					
PRKN-204		5640 .. 5776	137 bp	■	→	CDS
/codon_start	= 1					
/note	= coding sequence ENSP00000355862					
/translation	= SPVLVFAQNSRHVICLDCFHLYCVTRLNDRQFVHDPQLGYSLPCV 45 amino acids = 5.2 kDa					
PRKN-205		5640 .. 5776	137 bp	■	→	CDS
/codon_start	= 1					
/note	= coding sequence ENSP00000355863					
/translation	= SPVLVFAQNSRHVICLDCFHLYCVTRLNDRQFVHDPQLGYSLPCV 45 amino acids = 5.2 kDa					

Feature	Location	Size			Type
✓ PRKN-206	5640 .. 5776	137 bp		→	CDS
/codon_start	= 1				
/note	= coding sequence ENSP00000355865				
/translation	= SPVLVFQCNSRHVICLDCFHLYCVTRLNDRQFVHDPQLGYSLPCV 45 amino acids = 5.2 kDa				
✓ Donor Template SNV -> Rev	5690 .. 5789	100 bp		⇌	misc_feature
✓ gRNA Protospacer	5708 .. 5727	20 bp		⇌	misc_feature
✓ Silent SNV	5727 .. 5727	1 bp		⇌	misc_feature
/note	= Silent SNV = C REV = T				
✓ PAM	5728 .. 5730	3 bp		⇌	misc_feature
✓ SNV	5728 .. 5728	1 bp		⇌	misc_feature
/note	= SNV = T REV = C				

Primer	Length	Binding Sites	Tm	Date Added
✓ PCR Forward /sequence = accttacaatgcctgtactatggg 44% GC / 7672.1 Da	25-mer	5171 .. 5195	59°C	Mar 7, 2023
✓ Sanger Sequencing Primer /sequence = tctttgcacagagcacagtc 50% GC / 6077.0 Da	20-mer	5523 .. 5542	57°C	Mar 7, 2023
✓ Donor Template SNV -> Rev /sequence = atgctagacttacCCACACAAGGCAGGGAGTAGCCAAGTTGAGGGTCGTGAACAAACTGCCGATCATTGAGTCTTGTCACACAGTATAAG 46% GC / 7433.9 Da	100-mer	5690 .. 5789	76°C	Mar 7, 2023
✓ gRNA Protospacer /sequence = GTGTGACAAGACTCAATGAC 45% GC / 6150.1 Da	20-mer	5708 .. 5726	53°C	Mar 7, 2023
✓ PCR Reverse /sequence = ccacggtaacaaatctagaacatgg 44% GC / 7668.1 Da	25-mer	6066 .. 6090	58°C	Mar 7, 2023