

INK2J00017R_PARK7_L166P_F02_AA
 31,215 bp

5'

CCGGAAGTGGACCTACGTCATGCAGGTCAGTCGGTAGGTTTTCCGGCGCCACGCGCCCCGTGGGAGTTGTGTCTGGTGGCCACGC
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85

PARK7

TGGGGGGGGGCTCTTACACTGGTGGGCGCAGAGGCGAAGCCGTTCCAGGGCCCTCACAGAACTCGGTGTCAGAATTTCCCC
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170

PARK7

CTTGACCAGCGCCGCTCAAATGTCAGGGCTCGCCACTCTTCTCCGGTCTCGCCGACATAACCTTTTGGGGGCTCCAGAGGGG
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255

PARK7

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340

PARK7

CCAGAGGCCTTCTTTATGCCAGTAACTACAATTTAAATTCCTTCTCTGCTTCATTTTGTAGTCGTCTGGTGAATTTGACGTGAG
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425

PARK7

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510

PARK7

AGCAGGCTGTCAAATAACAGAGGATGAAAGCAGGATAATACTTGGTCAGAACCTGCTGTATGCCAGGGGCTGTGACAGATGCTGG
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595

PARK7

GGATTTCAGCAACCACCAAGACAAGAAGGTTCTTCCGGCGTTCACAGGACTAGGGGAAGACACAATAAAATAACTAAAGGCAAAATG
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680

PARK7

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765

PARK7

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850

PARK7

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935

PARK7

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1020

PARK7

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1105

PARK7

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1190

PARK7

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1275

PARK7

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1360

PARK7

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1445

PARK7

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1530

PARK7

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1615

PARK7

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1700

PARK7

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1785

PARK7

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1870

PARK7

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1955

PARK7

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2040

PARK7

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2125

PARK7

CACATGTTTCACTTCTGAAACCCAGGTTGAGGGAAACAGCAGCAACTTGCCTGGGGGAAAAGCTCTTCTTACAGCAATTCAAAAGTAG
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2210

PARK7

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2295

PARK7

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2380

PARK7

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2465

PARK7

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2550

PARK7

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2635

PARK7

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2720

PARK7

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2805

PARK7

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2890

PARK7

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2975

PARK7

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3060

PARK7

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3145

PARK7

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3230

PARK7

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3315

PARK7

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PARK7

3400

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PARK7

3485

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PARK7

3570

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PARK7

3655

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PARK7

3740

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PARK7

3825

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PARK7

3910

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PARK7

3995

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PARK7

4080

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PARK7

4165

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PARK7

4250

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PARK7

4335

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PARK7

4420

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PARK7

4505

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PARK7

4590

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PARK7

4675

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PARK7

4760

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PARK7

4845

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PARK7

4930

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PARK7

5015

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PARK7

5100

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PARK7

5185

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PARK7

5270

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PARK7

5355

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PARK7

5440

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PARK7

5525

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5610

PARK7

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5695

PARK7

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5780

PARK7

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5865

PARK7

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5950

PARK7

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6035

PARK7

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6120

PARK7

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6205

PARK7

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6290

PARK7

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6375

PARK7

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6460

PARK7

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6545

PARK7

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6630

PARK7

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6715

PARK7

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6800

PARK7

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6885

PARK7

AGCAGCATCAGGATCGTTAAAGAAAAACAAACAATGCTGAGAAAAAACTCACACCCCTGAGACATCCGGGTGTGAATAAATGCGG
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6970

PARK7

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7055

PARK7

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7140

PARK7

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7225

PARK7

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7310

PARK7

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7395

PARK7

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7480

PARK7

PARK7-201

GCAGGAAGAGGCGCGGGGTGCAGGTCAGCGCCAGCGGGGGCGCGGCGCATGTGTGGGCCGTGGCGCTGGGCGGCGTGGGGGTGCT
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7565

PARK7

PARK7-201

GGACGGTGTCCCTGTGCTGGACGGTGTCCCGCTGGCTCAGAACCAGGCGCGGGGCCCTGGGTCCGGGGCCGCCCTCGCTTCCGGCCTC
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7650

PARK7

PARK7-201

CCAGTCGGGGCCCTGTCGCTGGCGTTGGATTTGACTGACCGCCAGCGTGGTGGCAACGCTGAAGCGTCCAGAATCTTCTGCCTAAC
GGTCAGCCC GGGACAGCGACCGCAACCTAAACTGACTGGCGGTGCGACCACCGTTGCGACTTTCGCAGGTCTTAGAAGACGGATTG

7735

PARK7

PARK7-201

CTCTCGCCGGGCATGGAACCTGGCTAGCCGTTTTATTAAACTCTGTTTTGCGTGGACGGTAAACCCTCCAGATAATCTGTAAATAGG
GAGAGCGGCCGTACCTTGACCGATCGGCAAAAATAATTTGAGACAAAACGCACCTGCCATTTGGGAGGTCTATTAGACATTTATCC

7820

PARK7

PARK7-201

CTAAAAAAAAATTCGGAACCTCGTTGAGCTGCTGTCGTTGGCAGTGAGAACTCCGCGCAGAGAGACAGATGTAGTTGGGTTGACTT
GATTTTTTTTAAAGCCTTGAGCAACTCGACGACAGCAACCGTCACTCTTGAGGCGCGTCTCTCTGTCTACATCAACCCAACCTGAA

7905

PARK7

PARK7-201

CAGTGAGGGGATTTCCATCTTTCTCAGTCATTAATAAAGTGTTCAGACATTTAACTGTTGACCCCCACACACAATTTTTTTAG
GTCACCTCCCTAAAGGTAGAAAGAGTCAGTAATTTTTTTCACAAGTCTGTAAATTGTGACAACCTGGGGGTGTGTGTTAAAAAATC

7990

PARK7

PARK7-201

TACAGTTATAACTAAGAAAAACAAAAATCCCTCCAAAAAATTACAAGTTAATTGCGAAAAGACCACATTTAAATTTTTGCCCATGA
ATGTCAATATTGATTCTTTTGTTTTTAGGGGAGGTTTTTAAATGTTCAATTAACGCTTTCTGGTGTAATTTAAAAACGGGTACT

8075

PARK7

PARK7-201

AATTCAGTTTAGTCGTTTTCTCTGAAACAGTGCTTCAAAAAAGACTGTTTCCCCGCATTGTGTGAAATGCAGGAGACCCACGTACT
TTAAGTCAAATCAGCAAAGAGACTTTGTACGAAAGTTTTTCTGACAAAAGGGGCGTAACACACTTTACGTCCTCTGGGTGCATGA

8160

PARK7

PARK7-201

TGTATTTTTAAAAACCCATTTGCAACATACTATTAAAGTTGGATTTAAGAGAACATGGTAGAAGAAAATCTAAGCAATACTACA
ACATAAAAAATTTTTGGGTAAACGTTGTATGATAATTTCAACCTAAATCTCTTGTACCATCTTCTTTTAGATTTCGTTATGATGT

8245

PARK7

PARK7-201

CCTTTTAGCACCTCATTATGTTTTTCATCTCAGAGCAATTAATACTGCTATACAAATCAACGTTAAGATAACTAACTGCTGCTT
GGAAAATCGTGGGAGTAATACAAAAGTAGAGTCTCGTTAATTTGACGATATGTTTAGTTGCAATTCTATTGATTTGACGACGAA

8330

PARK7

PARK7-201

TTTTCGTATTCAGTTGTCTATGAAAACCGTTTCCCTAGGAAGTACTTACTCTGCTTGAAAATGCTCCTAACTTTAAATTTTTGGG
AAAAGCATAAGTCAACAGATACTTTTGGCAAAGGGATCCTTCATGAATGAGACGAACTTTTACGAGGATTTGAAAATTTAAAAACC

8415

PARK7

PARK7-201

GTATCTCAGGGTTGCAATGAAAGTTTTTTTGAAGTCTTTTTTTTTTTTTTTTTTTTTTAAGGCTTGTAACATATAACATAAAAAATGGC
CATAGAGTCCCAACGTTACTTTCAAAAAACTTTAGAAAAAAAAAAAAAAAAAAAAAATTCGGAACATTTGTATATTGTATTTTTTACCG

8500

PARK7

PARK7-201

1
M A
ENSE...
PARK7-201

TTCCAAAAGAGCTCTGGTCATCCTGGCTAAAGGAGCAGAGGAAATGGAGACGGTCATCCCTGTAGATGTCATGAGGCGAGCTGGG
AAGGTTTTCTCGAGACCAGTAGGACCGATTTCTCGTCTCCTTTACCTCTGCCAGTAGGGACATCTACAGTACTCCGCTCGACCC

8585

PARK7

PARK7-201

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

ENSE00003616908

PARK7-201

GTAAGTCCCACATCGATTTTTAGCCATTCTGTTTTAAATGTTTTGGATTTTTAAATCATTTTTGAATAAAATATTCAAAGTGCT
CATTCAAGGGTGTAGCTAAAAATCGGTAAGGACAAAATTTACAAAAACCTAAAAATTTAGTAAAACTTATTTTATAAGTTTCACGA

8670

PARK7

PARK7-201

PARK7-201

CTATGAAATATTTCAAATATACACAAAATTTAGAGATGACATAAGAATAAATACCTGTTGATCCACTGCTCACATTTAACGCTT
GATACTTTATAAAGTTTATATGTGTTTTAAAGTCTCTACTGTATTCTTATTTATGGACAACCTAGGTGACGAGTGTAATTTGCGAA

8755

PARK7

PARK7-201

PARK7-201

GTTAATGTCTTGCCATATTTCTTCAGACCCATTTCTCTTTTGTGTTTGGAGCTCTGTCGTCCAGGCTGGAGTGCGATGGCAGGATC
CAATTACAGAACGGTATAAAGGAAGTCTGGGTAAAGAGAAAACAAAACCTCGAGACAGCAGGTCCGACCTCACGCTACCGTCTTAG

8840

PARK7

PARK7-201

PARK7-201

TTGGCTCATTTTCGGTCTCTGCCTCCTGGGCCCAAACCATCTTCCACCTCAGCCTCCCAAATAGCTGAGACTACAGATGCGTGCC
AACCAGTAAAGCCAGAGACGGGAGGACCCGGGTTTGGTAGAAGGGTGGAGTCCGAGGGTTTATCGACTCTGATGTCTACGCACGG

8925

PARK7

PARK7-201

PARK7-201

ACCACACCTGGCTAATTTTTGTATGTTTTGTAGAGACAGGGTTTTGCCATGTTGCCAGGCTGCTCTCCAACCTCCTGAGCTCAAG
TGGTGTGGACCGATTAAAAACATACAAAACATCTCTGTCCAAAACGGTACAACGGGTCCGACGAGAGGTTGAGGACTCGAGTTC

9010

PARK7

PARK7-201

PARK7-201

TTGTCCACCCGCCTCAGGCCTCCCAAAGTGTTAGGACTACAGGCGTGAGCCACTGCACTGTCTTAGACCCATTTCTTTTTTCTT
AACAGGTGGGCGGAGTCCGGAGGGTTTTCACAATCCTGATGTCCGCACTCGGTGACGTGACAGGAATCTGGGTAAAGAAAAAAGAA

9095

PARK7

PARK7-201

PARK7-201

CTTTTTTTTTTTTTTTGAGATGGTGTCTCTCTGTGTCGCTCAGCCTGGAACGCAGTGGTGTGATCTCTGCTCGCTGCAACCTCTG
GAAAAAAAAAAAAAAAAACTCTACCACAGAGAGACACAGCGAGTCGGACCTTGCCTCACCACACTAGAGACGAGCGACGTTGGAGAC

9180

PARK7

PARK7-201

PARK7-201

CCTCCCGGGTTCAAGAGATTCTCCTGCCTCACCCCTCAGCTGGGATTACAGGTGTCCGCCACCACGCCCGGCTAATTGTATTTTTA
GGAGGGCCCAAGTTCTCTAAGAGGACGGAGTGGGAGTCGACCTAATGTCCACAGGCGGTGGTGCGGGCCGATTAACATAAAAAAT

9265

PARK7

PARK7-201

PARK7-201

GTACAGATGGGGTTTTACCATGTTGGCCAGGTTGGTCTCGAACTCCTGGCTTCAAGTGACCCGCCCGCCTTAGCCTTTTACAGTG
CATGTCTACCCCAAAGTGGTACAACCGGTCCAACCAGAGCTTGAGGACCGAAGTTCACTGGGCGGGCGGAATCGGAAAAATGTCAC

9350

PARK7

PARK7-201

PARK7-201

CTGGGATTACAGGCGAGGAGCCACCATGCCCGGCCCTCAGACTCGTTTCTTAAAGAGCAGATGCTTCAAAGAAATACATTTGAAG
GACCCTAATGTCCGTCTCGGTGGTACGGGCCGGGGAGTCTGAGCAAAGAATTTCTCGTCTACGAAGTTTCTTTATGTAAACTTC

9435

PARK7

PARK7-201

PARK7-201

CCCCCTTTGTAAATTTCTCCAATCCTATGCCCTTCTTCTTCTTAAAGATAAGTGCTATCCTCGCACTCTTGTGTATCCATGC
GGGGGAAACATTTAAAGAGGTTAGGATACGGGGAAGAAGGAAGGAATTTCTATTACGATAGGAGCGTGAGAACACATAGGTACG

9520

PARK7

PARK7-201

PARK7-201

ATGTGTGTCTTTTTTTTTTTTTTAAAGACAGAGTCTTGCTCTGTACCCAGGCTGGAGTGCAGTGGTGTGACCTCAGCTCACTGC
TACACACAGAAAAAAAAAAAAAAAAATTCTGTCTCAGAACGAGACAGTGGGTCCGACCTCACGTACCCACACTGGAGTCGAGTGACG

9605

PARK7

PARK7-201

PARK7-201

AACTTCTGCCTCCTGGGTTCAAGCAGTTCTCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGTGCGCACCACCATGCCTGGCT
TTGAAGACGGAGGACCCAAGTTCGTCAAGAGACGGAGTCGGAGGGTTCATCGACCCTAATGTCCACGCGTGGTGGTACGGACCGA

9690

PARK7

PARK7-201

PARK7-201

AATTTTTTGTATTTTTAGTAGATGGGGTTTTACCATCTTTGGCCAGGCTGGTCTTGAACCTCTTGACCTCGTGATCCACCCACCTCG
TTAAAAAACATAAAAAATCATCTACCCCAAAGTGGTAGAACCGGTCCGACCAGAACTTGAGAACTGGAGCACTAGGTGGGTGGAGC

9775

PARK7

PARK7-201

PARK7-201

GCCTCCCAAAGTGCTGTGATTACAGATGTGAGCTACTGCACCCGCCCCACGCATGTCTTTAAGGTAGCATTGACCGTGGTTCT
CGGAGGGTTTACGACACTAATGTCTACACTCGATGACGTGGGCGGGGTGCGTACAGAAATTCATCGTAAACTGGCACCAAGA

9860

PARK7

PARK7-201

PARK7-201

CATTTTGCCTGTTTATATATTATCTCTCTATCTAAAAATAGTGAACAGTGAAGTGAAGTAGAACTAACTCTGTGCCAGGCAGC
GTAAACGCACAAATATATAATAGAGAGAGATAGATTTTTATCACTTGTCACTTCACTTCATCTTGATTGAGACACGGTCCGTCTG

9945

PARK7

PARK7-201

PARK7-201

ATTCTAAGTGCCGATAAACCTTACAACAATGTCGTGAGTTAGATATCACCATCCTCATTTTACAGTTGAAGAACTGAGGCACAG
TAAGATTCACGGCTATTTGGAATGTTGTTACAGCACTCAATCTATAGTGGTAGGAGTAAAATGTCAACTTCTTTGACTCCGTGTC

10,030

PARK7

PARK7-201

PARK7-201

AGACATAAATAATGTACCCACATCACGTAGTAAGTACAAAAGCCAGAACTCAGACCCAGGCAGCCTGGCCCCAGAGTCTGTTAAC
TCTGTATTTATTACATGGGTGTAGTGCATCATTGTTTTCGGTCTTGAGTCTGGGTCCGTCGGACCGGGTCTCAGACAATTG

10,115

PARK7

PARK7-201

PARK7-201

CCTATACTCCTCTGGTTCTCAGAAATGAAGATACATGTCGATTAAGTTTATCCACTTAAAATTGCTGCTTGGTGTGCACTGAAT
GGATATGAGGAGACCAAGAGTCTTTACTTCTATGTACAGCTAATTCAAATAGGTGAATTTTAAACGACGAACCACAACGTGACTTA

10,200

PARK7

PARK7-201

PARK7-201

GCCACAATCTACCCATTCTCTAATTACAGCATTACAATTCTGTAATACGTATTCTTGTGTAGGTTTCTTTGTGCAAATGTGAGG
CGGTGTTAGATGGGTAAGGAGATTAATGTCGTAATGTTAAGACATTATGCATAAAGAACACATCCAAAGAAACACGTTTACTCC

10,285

PARK7

PARK7-201

PARK7-201

AAATTTTTCCAGGTTATATATCTAAAAGTAGAATGACTAGGCCGAAGGATAGCCTGTAGTCAGCATGACTAGGTTTTGCCAAGTT
TTTAAAAAGGTCCAATATATAGATTTTCATCTTACTGATCCGGCTTCTATCGGACATCAGTCGTAAGTCCAAAACGGTTCAA

10,370

PARK7

PARK7-201

PARK7-201

GCTCTCCAGTGTCCCAGTTTGTAGTCCCACCAGCAGTGTAGGAAAATTTCCCACTTTCCCACTGCCCAGCTCTTGGTATTGTTGACT
CGAGAGGTCACAGGGTCAAACATCAGGGTGGTCGTACATCCTTTAAGGGTGAAAGGGTACGGTTCGAGAACCATAACAACCTGA

10,455

PARK7

PARK7-201

PARK7-201

TTAAAAATTTTTGAAAGATAAAGCAGTATTTTCGTTGTTTGGACTTGCATTTCTATTTTACAAAAATACCATGAGGTTTAAATGGC
AATTTTTAAAACTTTCTATTTTCGTACATAAAGCAACAAACCTGAACGTAAAGATAAAATGTTTTTATGGTACTCCAAATTTACCG

10,540

PARK7

PARK7-201

PARK7-201

AACAGTAAACTTGCAAGATGAGTTATTAATAGGATGATCATATAACTGGTCACCCAAACCAGAACATTTGTGGGAGAAAAGGGTGT
TTGTCATTTGAACGTTCTACTCAATAATTATCCTACTAGTATATTGACCAGTGGGTTTGGTCTTGTAACACCCCTCTTTCCACA

10,625

PARK7

PARK7-201

PARK7-201

TCCAGTCCCACAGAGTACAGGGCAGCAGCTATAAGTAGGGTCTGTCCCGGGCAAACCAGGGTAGACCTAGTTATTAATATATTT
AGGTCAGGGTGTCTCATGTCCCGTCGTGATATTCATCCAGACAGGGCCCGTTTGGTCCCATCTGGATCAATAATTTATATAAA

10,710

PARK7

PARK7-201

PARK7-201

AGCCAGTGTATTAGCTTAAATTTGGTATAGTTGTGGTGCAGTATTTCTGTGCATGTTACTTTCAAACACAGGGCAGCTGTGTAAA
TCGGTCACATAATCGAATTTAAACCATATCAACACCACGTCATAAAGGACAGTACAATGAAAGTTTGTGTCCCGTCGACACATTT

10,795

PARK7

PARK7-201

PARK7-201

CGTTACTCTAGCTGGGTGTGGTGGCTCATGTCTGTAATCCCAGCTACTTGGGAGGCTGAAGCAGGAGGATCATTGAGCCCAGGA
GCAATGAGATCGACCCACACCACCGAGTACAGACATTAGGGTCGATGAACCCTCCGACTTCGTCTCCTAGTAAACTCGGGTCCT

10,880

PARK7

PARK7-201

PARK7-201

GCTGGAGGCTGCAGTAAGCTATGATTGTGTCCTGCCCCTAGCCCAGGTGACAGGGTGAGACCCCATCTCTCTTTTTTCTTTTT
CGACCTCCGACGTCATTTCGATACTAACACAGTGACGGGAGATCGGGTCCACTGTCCCCTCTGGGGTAGAGAGAAAAAGAAAAA

10,965

PARK7

PARK7-201

PARK7-201

TTTTAAAGACAGTGTACTCTGAATTTATGTTTCAGTGTCTTAAATATGATAACATCTTTCTCGTAGATTAAGGTCACCGTTGC
AAAATTTCTGTACAATGAGACTTAAATACAAAGTCACAAGAATTTATACTATTGTAGAAAGAGCATCTAATTCAGTGCCAACG

11,050

PARK7

PARK7-201

I K V T V A
ENSE00003623984

PARK7-201

AGGCCTGGCTGGAAAAGACCCAGTACAGTGTAGCCGTGATGTGGTCATTTGTCCTGATGCCAGCCTTGAAGATGCAAAAAAGAG
TCCGGACCGACCTTTTCTGGGTCATGTCACATCGGCACTACACCAGTAAACAGGACTACGGTCCGAACTTCTACGTTTTTTTTCTC

11,135

PARK7

PARK7-201

G L A G K D P V Q C S R D V V I C P D A S L E D A K K E
ENSE00003623984

PARK7-201

GTTTGTAAATCCATACATGGAGTTATTCCTTCATATGGCTTCTTTGTTTCTTGAAATGTCTTAAGAGTGTGTTAGCACAGACTCA
CAAACATTAGGTATGTACCTCAATAAGGAAGTATACCGAAGAAACAAAGAAGCTTTACAGAATTCTCACAACAATCGTGTCTGAGT

11,220

PARK7

PARK7-201

PARK7-201

TTTTAGAAAATTATTTTGTCTTGAATGTCTTCCCCTGACAGATTAAGAGGGTGAGGACTTTGTCTTTCTATTCTGTATCTGTAGAA
AAAATCTTTTAATAAAACGAACTTACAGAAGGGGACTGTCTAATTCTCCCACTCCTGAAACAGAAAGATAAGACATAGACATCTT

11,305

PARK7

PARK7-201

PARK7-201

TGTGGCAATTGCTTGATACAGAATGTGCTTAGTAAGTGGGTGGCTGGATGGGTAGGTGGCCGGTTGGATGTGTGGCCAGATGGGT
ACACCGTTAACGAACTATGTCTTACACGAATCATTACCCACCGACCTACCCATCCACCGGCCAACCTACACACCGGTCTACCCA

11,390

PARK7

PARK7-201

PARK7-201

GGGTTGGTGCTTAGATGGATGGCTGCATTGTTTTCCCATCAGTATTTTTCTGGCTTACACAGGCATCCTTGCCTCCTATTACACA
CCCAACCACGAATCTACCTACCGACGTAACAAAAGGGTAGTCATAAAAAGACCGAATGTGTCCGTAGGAACGGAGGATAATGTGT

11,475

PARK7

PARK7-201

PARK7-201

TTTTTACCTGACATAAATCAACTGCCACATTTTCCATTTTTTATTATTATTATTTTTGTTTAGAGGAATGGTCCCCTCTCTCCC
AAAAATGGACTGTATTTAGTTGACGGTGTAAAAGGTAAAAAATAATAATAAAAAACAAATCTCCTTACCAGGGTGAGAGAGGGG

11,560

PARK7

PARK7-201

PARK7-201

CTAGGCTGGAGTCCAGTGGTGCAGTCACAGCTCACTGCAGCCTCAACCTCCCAGGTTCAAGCAATCCTCCCACCTCAACCCCCCA
GATCCGACCTCAGGTCACCACGTCAGTGTGAGTGACGTCGGAGTTGGAGGGTCCAAGTTCGTTAGGAGGGTGGAGTTGGGGGGT

11,645

PARK7

PARK7-201

PARK7-201

CGTAGCTCGGACTACAGGCATGTGCCATGCCCGGCCATTATTTTTCTAAAGATACTTTCAGAGTTCCTACTGTAGTTGTGTTGTT
GCATCGAGCCTGATGTCCGTACACGGTACGGGCCGGTAATAAAAAGATTCTATGAAAGTCTCAAGGTGACATCAACACAACAA

11,730

PARK7

PARK7-201

PARK7-201

TTTTCAGTATCGTTGGAATTATGGCTCTTACCTTTAAGGACGATGGACACTTTTGGAAAGCTAGCATCCCTTTTCTCAGAAACATG
AAAAGTCATAGCAACCTTAATACCGAGAATGGAAATTCCTGCTACCTGTGAAAACCTTCGATCGTAGGGAAAGGAGTCTTTGTAC

11,815

PARK7

PARK7-201

PARK7-201

CTCCCCACAGGCGCTTTTGCACACTCCGTCGTCGGTCAGCGTGACAGGAGTGTGGACTGTACCCTCTGACAGCAGGGTCATGG
GAGGGGGTGTCCGCGAAAACGTGTGAGGCAGCACGCCAGTCGCACTGTCTCACACCTGACATGGGAGACTGTCTGCCAGTACC

11,900

PARK7

PARK7-201

PARK7-201

CAGGAAAGGAGGCAGAGTCGGCTCACAGATGGCTGGTTGCACACTGCTGAGGAACCTGGAGTGCGGTTCCCTGGGCCGAGCTGTC
GTCTTTTCTCCTCCGTCCTCAGCCGAGTGTCTACCGACCAACGTGTGACGACTCCTTGGACCTCACGCCAAGGGACCCGGCTCGACAG

11,985

PARK7

PARK7-201

PARK7-201

CTCAGATACATAGGAAAAAGTTTAATCCTTTCTAATAAGTTTAGATTTTTTCATTACTGGATTGTAGAAAATTAGACTGTTGGTAT
GAGTCTATGTATCCTTTTTTCAAATTAGGAAAGATTATTCAAATCTAAAAAGTAATGACCTAACATCTTTTAATCTGACAACCATA

12,070

PARK7

PARK7-201

PARK7-201

TTACATGTGATTTGTTGAAACAAATTAATAATGACAAGCAGAAGTAAGTATTCCAGGCCAAGTGCAGTGGCTCACCTGTAATCCC
AATGTACACTAAACAACCTTTGTTAATTTTTACTGTTTCGTCCTTCATTCATAAGGTCCGGTTCACGTCACCGAGTGGACATTAGGG

12,155

PARK7

PARK7-201

PARK7-201

AGCACTTTTGGAGGCCAAAGTGGGAGGATCACTTGGGACCAGGAGTTTGAGACCAGCCTGGGCAACATAGCGAGACCGTTTTCTCT
TCGTGAAAACCTCCGGTTTTACCCCTCCTAGTGAACCTGGTCCCTCAAACCTCTGGTCGGACCCGTTGTATCGCTCTGGCAAAGAGA

12,240

PARK7

PARK7-201

PARK7-201

TTAAATTAATAATTTGTAAAAGCCAGGTGTGGTGGTGCATGCCTGTAGTTCTAGCTACTTAAGAGGCTGAGGCAAGAGGATCACT
AATTTAATTTTTAAACATTTTCGGTCCACACCACCACGTACGGACATCAAGATCGATGAATTCTCCGACTCCGTTCTCCTAGTGA

12,325

PARK7

PARK7-201

PARK7-201

TGAGCCTAGACGGTTGCTTGAGCCCAGGAATTTGAGACAGCAGTGAACCTGTGATTGTGCCATTGCCCTTCAGCCTGGGTGACAGA
ACTCGGATCTGCCAACGAACTCGGGTTCCTTAAACTCTGTCTGTCACCTTGACACTAACACGGTAACGGGAAAGTCGGACCCACTGTCT

12,410

PARK7

PARK7-201

PARK7-201

GCGAGACCCTGTCTCAAAAATAATAATAACTTTTTTTCATCTCTGTTTGTGTTTTTGTGCATATGATGTCTGGGCATTTTAAAA
CGCTCTGGGACAGAGTTTTTATTATTATTATGAAAAAAGTAGAGACAAACACAAAAACAGTATACTACAGACCCGTAAAAATTTT

12,495

PARK7

PARK7-201

PARK7-201

CAGTGGTTACCTTTATTTTCAATCGACAGATAATAAGTGTACATATTCATGGGATTTGTGATGTTTCCATGCATAATATATAGTG
GTCACCAATGGAAATAAAAGTTAGCTGTCTATTATTACATGTATAAGTACCCTAAACACTACAAAGGTACGTATTATATATCAC

12,580

PARK7

PARK7-201

PARK7-201

ATCGGATCAGAGTAATTAGCATATCCATCATCTCAAACATTTCTTTGTGTTGGGAACGTTCAATATCCTCCTTGCTATTTGAAAC
TAGCCTAGTCTCATTAAATCGTATAGGTAGTAGAGTTTGTAAAGAAACACAACCCTTGCAAGTTATAGGAGGAACGATAAACTTTG

12,665

PARK7

PARK7-201

PARK7-201

TATATATGATTGTTAACTATAGTCATTCTACGGGGGTATAGAACACCAGAACCTATTCCCTCCTATCTAGCTATAATTTTGTATCT
ATATATACTAACAATTGATATCAGTAAGATGCCCCCATATCTTGTGGTCTTGGATAAGGAGGATAGATCGATATTA AACATAGA

12,750

PARK7

PARK7-201

PARK7-201

TTTAACAAATCTCTCCCTATCCCCACTTTCTCCTATCCTCCCCAGCCTCTAGTATCCTCTGTCCTACATTATGCTTCTATGTGAT
AAATTGTTTAGAGAGGGATAGGGGTGAAAGAGGATAGGAGGGGTCGGAGATCATAGGAGACAGGATGTAATACGAAGATACACTA

12,835

PARK7

PARK7-201

PARK7-201

CAATTTTTTTTTAGCTTTACATATGAGTGAGAACATGGAGTGTTTAAATTTGCTATTCCTGGCTTCTTTCACTTAATATAATGTT
GTTAAAAAAAAAATCGAAAGTGATACTCACTCTTGTACCTCACAAATTAACGATAAGGACCGAAGAAAGTGAATTATATTACAA

12,920

PARK7

PARK7-201

PARK7-201

CTCTAGTTCCATTCTTGTAGCCACAAATGACAAGATTTTCATTCTTTTTTATGGCTGGATAGTATCCCATTGTGTATAAATGCCAC
GAGATCAAGGTAAGAACATCGGTGTTTACTGTTCTAAAGTAAGAAAAAATACCGACCTATCATAGGGTAACACATATTTACGGTG

13,005

PARK7

PARK7-201

PARK7-201

ATTTTCTTTATGCATTCATCTGTTGTTGGACCTAGGTTGATTTGATGTTGGCTAGTGTGACTGTTGGTGTAGTAAACAAGGGA
TAAAAGAAATACGTAAGTAGACAACAACCTGGATCCAACATAAGCATACAACCGATCACACTGACAACCACATCATTTGTTCCCT

13,090

PARK7

PARK7-201

PARK7-201

GTGCAGGTGTCTCTTCAGTATACTGATTTCCCTTTCCATTGGATACATGCCAAGTAGTGGGATTGCTGGACCATATGGTAGTTCCA
CACGTCCACAGAGAAGTCATATGACTAAAGGAAAGGTAACCTATGTACGGTTCATCACCTAACGACCTGGTATACCATCAAGGT

13,175

PARK7

PARK7-201

PARK7-201

TTTACTGTAGTTTTTTAAGGAAGTGGTTACCTTTTGTGTGTTTTTATTTTTTCAGTGCAGATTCTAAAAGGAGTAAAATAAATCT
AAATGACATCAAAAAATTCCTTCACCAATGGAAAAACACACAAAAATAAAAAGTACAGTCTAAGATTTTCCTCATTTTTATTTAAGA

13,260

PARK7

PARK7-201

PARK7-201

ATACTTTACACATTTTCTTTTGAGTTTTGAGCTTTGCTTGGTTTTGAATCAACGGTAGGATGTTTATGGTCTTAAAAGTGATTCT
TATGAAATGTGTAAAAGAAAACTCAAACTCGAAACGAACCAAACTTAGTTGCCATCCTACAAATACCAGAATTTTCACTAAGA

13,345

PARK7

PARK7-201

PARK7-201

AAGCCAGCCATAGTGGTTCACACCTGAAATCCTAGCACTTTGTGAGGCTGAGGCAGGAGGATTACCTGAGCCCAGGAGTTTTGAG
TTCGGTCGGTATCACCAAGTGTGGACTTTAGGATCGTGAAACACTCCGACTCCGTCTCCTAATGGACTCGGGTCTCAAACTC

13,430

PARK7

PARK7-201

PARK7-201

ACTAGCCTGGGCAATGAAGCGAGACCCTGTCTCTACAAAAATAAAAAAATTAGCTGGCTGTGGTGGTGCATGCCTGTAGTCCTA
TGATCGGACCCGTTACTTCGCTCTGGGACAGAGATGTTTTTATTTTTTTAATCGACCGACACCACCACGTACGGACATCAGGAT

13,515

PARK7

PARK7-201

PARK7-201

GCTCCTGCAGAGGCTGAAGTGGGAGAGTTGCTTGAGCCCAGGAGTTCAAGGCTGTAGTGAGCCACGATTGCATCACTGCACTCTA
CGAGGACGTCTCCGACTTCACCCTCTCAACGAACCTCGGGTCTCAAGTTCCGACATCACTCGGTGCTAACGTAGTGACGTGAGAT

13,600

PARK7

PARK7-201

PARK7-201

GCCTGGGTGACAGAGGTGAGGGCTTCTCTCTAAAAAATTTTATAGGTTGCACTAAATACATAATACATTTTTTATTTTGTAAATTT
CGGACCCACTGTCTCCACTCCCGAAGAGAGATTTTTTTAAAATATCCAACGTGATTTATGTATTATGTAAAAATAAACATTAAA

13,685

PARK7

PARK7-201

PARK7-201

GTTTAATGACTAGATTTTTTTAACCACCTTTTTAAAGTACTAAAGTATTGTTGGCCGGCCACAGTGGTTCACGCCTGTAATCCCA
CAAATTACTGATCTAAAAAAATTTGGTGAATAATTTTCATGATTTTCATAACAACCGCCGGTGTACCAAGTGCGGACATTAGGGT

13,770

PARK7

PARK7-201

PARK7-201

GCACCTTTGGGAGGCCGAGATGGGTGTATCACGAGGTCAGGAGTTTGGAGACCAGCCTGGTCAAGAGGGTGAAACCCCATCTTTACT
CGTGAAACCCTCCGGCTCTACCCACATAGTGCTCCAGTCTCTCAAACCTCTGGTCGGACCAGTTCTCCCACTTTGGGGGTAGAAATGA

13,855

PARK7

PARK7-201

PARK7-201

AAAAATACACAGATTAGCCGGGCACAGTGGTGGGTACCTGTAATCCCAGTTGCTTGGGAGGCTGAGGCAGGAGAATCGCTTGAAT
TTTTTATGTGTCTAATCGGCCCGTGTCAACCACCCATGGACATTAGGGTCAACGAACCCTCCGACTCCGTCTCTTAGCGAACTTA

13,940

PARK7

PARK7-201

PARK7-201

CCGGGAGACGGAAGTTGCAGTGAGCTGAGATCACTGCACTCTAACCTGGGTGACAGAGCAAGACTCTGTCTCAAAAAAAAAAAAA
GGCCCTCTGCCTTCAACGTCAGTCTGACTCTAGTGACGTGAGATTGGACCCACTGTCTCGTTCTGAGACAGAGTTTTTTTTTTTTT

14,025

PARK7

PARK7-201

PARK7-201

AAAGAAAAGAAAAATAAATAAATAAATAAAAAAGTCCTAAAGTATTGTTAAAAACAATTTCCGTTTTGTAATTTTCAGGAAGTTTGAA
TTTCTTTTCTTTTTATTTATTTATTTATTTTTCAGGATTTTCATAACAATTTTGTAAAGGCAAAACATTAAAGTCCTTCAAACCTT

14,110

PARK7

PARK7-201

PARK7-201

ATTAATTTGATTTCTAGGATTTTTTGGGGGGGATACTAAAAATTCTCCCCCGTTACATTTTTTCATAAAGTTAAGAAAAATTTTTT
TAATTAAACTAAAGATCCTAAAAAACCCCCCTATGATTTTAAGAGGGGGGCAATGTA AAAAAGTATTTCAATTCTTTTTAAAAAA

14,195

PARK7

PARK7-201

PARK7-201

GTGCCTTTTACTTAAAAATTTGTTTCTCTATTAATTTTATTTGTTTTTTTTAGACAGAGTCTTGCTCTGTTGCCAGGCTAGAGTGC
CACGGAAAATGAATTTTAAACAAAGAGATAATTA AAAATAAACAAAAAAATCTGTCTCAGAACGAGACAACGGGTCCGATCTCACG

14,280

PARK7

PARK7-201

PARK7-201

GGTGGTGCAGCCTCAGCTCACTGCAGCCTCTGCCTCCTAGGTTCAAGCGATTCTCCTGCCTCAACCCCCCAAGTAGATGGGACCA
CCACCACGTCCGAGTCGAGTGACGTCCGAGACGGAGGATCCAAGTTCGCTAAGAGGACGGAGTTGGGGGGTTTCATCTACCCTGGT

14,365

PARK7

PARK7-201

PARK7-201

CAGGTGTGCACCACCACACCCAGCTAATTTTCATATTTTTAGTAGAAATGGGGGTTTTGCCATGTTGGCCAGGCTGGTCTCGAAC
GTCCACACGTGGTGGTGTGGGTCGATTA AAAAGTATAAAAAATCATCTTTACCCCCAAAACGGTACAACCGGTCCGACCAGAGCTTG

14,450

PARK7

PARK7-201

PARK7-201

TCCTGAGCTCAGGTAATCTTCCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGACATGAGCCAGTGTGCCAGCCTGTTTTTCT
AGGACTCGAGTCCATTAGAAAGGACGGAACCGGAGGGTTTTACGACCCTAATGTCTGTACTCGGTCACACGGGTCGGACAAAAAGA

14,535

PARK7

PARK7-201

PARK7-201

ATTAATTTTTTAAGTTGTTTCATGTACATTCTTGTGTTGAACAATAATTCAAACAATATAGACACATATAAAGTCAAAATGTTAAATG
TAATTA AAAAATTC AACAAGTACATGTAAGAACAACCTGTTATTAAGTTTGTATATCTGTGTATATTTTCAGTTTTACAATTTAC

14,620

PARK7

PARK7-201

PARK7-201

TCCTGTTCTCATTCTCCCTCTGCCCATCCCACACTACTCCATTAGCAACTAGAGTGTCTTCCTTTGTCTGTGACTACCTGTAT
AGGACAAGAGTAAGAGGGGAGACGGGGTAGGGTGTGATGAGGGTAATCGTTGATCTCACAGAAGGAAACAGACACTGATGGACATA

14,705

PARK7

PARK7-201

PARK7-201

ACAGAATATGTGGGGTGGGGTGCTTGTGGTGATTGTACACATACACGCATACATCTACACACAAATACATATATCCTTGTCTTTT
TGCTTTATACACCCACCCACGAAACCACTAACATGTGTATGTGCGTATGTAGATGTGTGTTTATGTATATAGGAACAGAAAA

14,790

PARK7

PARK7-201

PARK7-201

ACAGGAAGGAGATTATACTACCCCTGCTACTCTGCAGCGTGGACATCCTTGCATGTCACTACATACAGGTTTTCTGCATTTTTTG
TGTCCCTTCTCTAATATGATGGGGACGATGAGACGTCGCACCTGTAGGAACGTACAGTGATGTATGTCCAAAAGACGTA AAAAAC

14,875

PARK7

PARK7-201

PARK7-201

CTAGTTAAAACACCATTCGGTCATGTGGATACACCTTAATTTATTTAACTGTTCTATTGGCAGATAGGCTATCTCCTGTACTTCC
GATCAATTTTGTGGTAAGGCAGTACACCTATGTGGAATTAATAAATTGACAAGATAACCGTCTATCCGATAGAGGACATGAAGG

14,960

PARK7

PARK7-201

PARK7-201

CACATTTAAATAGGAAAGTATTATTGGACTGTCAATTTAATGCACAGTTGAAATGAAATGTTTTTGTCTTTATGTTTTAAA
GTGTAATTTTATCCTTTCATAATAACCTGACAGTTAAATTACGTGTCAACTTTACTTTACAAAAACAAAAGAAATACAAAATTT

15,045

PARK7

PARK7-201

PARK7-201

CTGTTACAGGGACCATATGATGTGGTGGTTCTACCAGGAGGTAATCTGGGCGCACAGAATTTATCTGAGGTAAAAAATTCTACTC
GACAATGTCCCTGGTATACTACACCACCAAGATGGTCCTCCATTAGACCCGCGTGTCTTAAATAGACTCCATTTTTTAAGATGAG

15,130

PARK7

PARK7-201

65 P Y D V V V L P G G N L G A Q N L S E

ENSE0003584479

PARK7-201

AATTATACCTCAATAAAGCTGGGGGGGGGAAAAACTAAAGAATTTTCAGCATCTGCTTATGTTCTGTTAATTTTTGTTATTATTCA
TTAATATGGAGTTATTTTCGACCCCCCCCCCTTTTTGATTTCTTAAAGTCGTAGACGAATACAAGACAATTAACAATAATAAGT

15,215

PARK7

PARK7-201

PARK7-201

AATATTTTCGGGAGGAGGCTGTGAAAAAAAAATAGAAACAACATAAAATTAACAAAATGGTGTATAGCATTAACTCAAACCTTTTTT
TTATAAAGCCCTCCTCCGACACTTTTTTTTTATCTTTGTTGATTTAATTGTTTTACCACAATATCGTAATTGAGTTTGAAAAAA

15,300

PARK7

PARK7-201

PARK7-201

TTTTTTTTGAGACAGAGTCTTGCTCTGTGGCCAGGCTGGAGTGCAGTGGCACAATCTCGGCTCACTGCAATCTCCGCCCTCCTGG
AAAAAAAACCTCTGTCTCAGAACGAGACACCGGGTCCGACCTCACGTCACCGTGTAGAGCCGAGTGACGTTAGAGGCGGAGGACC

15,385

PARK7

PARK7-201

PARK7-201

GTTCAAGCAGTTCTCCTGCCTCAGCCTCTGAGTAGCTGGGATTGCAGGCATGCACCCCATGCCCTGCTAATTTTTATATTTTTA
CAAGTTCGTCAAGAGGACGGAGTCGGAGACTCATCGACCTAACGTCCGTACGTGGGGGTACGGGACGATTAAAAATATAAAAAT

15,470

PARK7

PARK7-201

PARK7-201

TTAGAGACGGGGTTTTACCATGTTGGCCAGTCTGGTCTCAAACCTCTGACCTCGTGATCCGCCACCTCGGCCCTCCCAAAGTGCT
AATCTCTGCCCCAAAGTGGTACAACCGGTGAGACCAGAGTTTGAGGACTGGAGCACTAGGCGGGTGGAGCCGGAGGGTTTTACGA

15,555

PARK7

PARK7-201

PARK7-201

GGAATTATAGGCGTGAGCCACCACTCCCGACCTCAAGAAAACATTTTTTAATATTTTCTATGGAGGTCAGGTGCAGTGGCTCAACG
CCTTAATATCCGCACTCGGTGGTGAGGGCTGGAGTTCTTTTGTAAAAATTATAAAAGATACCTCCAGTCCACGTCACCGAGTTGC

15,640

PARK7

PARK7-201

PARK7-201

TCTATAATCCCAGTGGTTTTGGGAGGCTGAGACAGGAGGATTGCTTGAGGGCCAGGAGTTTGAGACCAGCCTAAGTAACACATCGAG
AGATATTAGGGTCACCAAACCTCCGACTCTGTCTCCTAACGAACTCCGGTCTCAAACCTCTGGTCGGATTTCATTGTGTAGCTC

15,725

PARK7

PARK7-201

PARK7-201

ACGCCATCTCTACAAAAATTTTCTTTTAATTAGCTGGGCACGGTGGTGACACTTGTAGTCCCAGCTACTCGGGAGGCTATGGT
TGCGGTAGAGATGTTTTTAAAAGAAAATTAATCGACCCGTGCCACCACGTGTGAACATCAGGGTCGATGAGCCCTCCGATACCA

15,810

PARK7

PARK7-201

PARK7-201

GGGAGGATGACTTGAGGGCCAGGGATTTGAGGCTGCAGTGAGCTGTGAATGCACCACTGCATTCTAGCCTGGGCAACAAAGCAAGA
CCCTCCTACTGAACTCCGGTCCCTAAACTCCGACGTCCTCGACACTTACGTGGTGACGTAAGATCGGACCCGTTGTTTCGTTCT

15,895

PARK7

PARK7-201

PARK7-201

ACCTGTCTTATCAGAAAAAAAAAATGTTGCCATGGAAGTAAGCTGAATTGGTGGGACCGTTATGAACAGATGTCGATGAATACAG
TGGACAGAATAGTCTTTTTTTTTTACAACGGTACCTTCATTGACTTAACCACCCCTGGCAATACTTGTCTACAGCTACTTATGTC

15,980

PARK7

PARK7-201

PARK7-201

TCCAAAGTAAGATGATTTGGTTTTTTTTCCACCAGCAGAAGAATGATCAGATTTTGTGTTTTGAGAAGGGCAAATTGTCTACTCAA
AGGTTTCATTCTACTAAACCAAAAAAAGGTGGTCGTCTTCTACTAGTCTAAAAACACAAAACCTCTCCCGTTTAACAGATGAGTT

16,065

PARK7

PARK7-201

PARK7-201

AGTCTTAACTGGGGGAAGCTGTGGGGCTAGGGCTGCCAGCAGGAATGGCAAATGCCATCAGCAGAGACCATTGTTCCCTCATTTTA
TCAGAATTGACCCCTTCGACACCCCGATCCCGACGGTCGTCTTACCGTTTACGGTAGTCGTCTCTGGTAACAAGGAGTAAAAAT

16,150

PARK7

PARK7-201

PARK7-201

AGTCGTATGTGAGGAGTCAGAGGCCAGGGTGAGGGGCACACCTGCAGGCAGAGTTGGGGCTGCCAGAAGTAAGAAGTGGGTTGTG
TCAGCATACTCCTCAGTCTCCGGTCCCCTCCCGTGTGGACGTCCGTCTCAACCCCGACGGTCTTCATTCTTCAACCAACAC

16,235

PARK7

PARK7-201

PARK7-201

TCAGACACAAGGGATCTTTTCCTGCTAGATTCTGTTTCTCTCTGCCATCTGAAAACACCCAAAACACCACATTCCCTCCCATT
AGTCTGTGTTCCCTAGAAAAGGACGATCTAAGACAAGGAGAGAGACGGTAGACTTTTGTGGGTTTTGTGGTGTAAGGGAGGGTAA

16,320

PARK7

PARK7-201

PARK7-201

TCTTTCTCCCTGGAGTACAAAATGGCAAGGGTCAAATTGCTTCTTCTGATCTTTAAATGTGGAAGAGTGC GTTTTCTTTATGAGA
AGAAAGAGGGACCTCATGTTTTACCGTTCCCAGTTTAACGAAGAAGACTAGAAAATTTACACCTTCTCACGCAAAGAGAATACTCT

16,405

PARK7

PARK7-201

PARK7-201

AATGCCTTGCTTGGGTTTAAAGAAATAATATAGACACATTTTGATCATTTTTATACCAATGATTTAGAAATATTGTTGGAAAATA
TTACGGAACGAACCCAAATTCTTATATTATATCTGTGTAAACTAGTAAAAATATGGTTACTAAATCTTTATAACAACCTTTTAT

16,490

PARK7

PARK7-201

PARK7-201

GGTCAGAGAGCTTGTGGTTTTAAACTAAAATTAATTTCTTCCAAAGTTTCTAGTGAGTGATTGGTTAGTGGCTTAATGATAACTT
CCAGTCTCTCGAACACCAAAATTTGATTTTAATTTAAGAAGGTTTCAAAGGATCACTCACTAACCAATCACCGAATTACTATTGAA

16,575

PARK7

PARK7-201

PARK7-201

TATGTATTTTTGGTTTTCTTTTCACTAGTCTGCTGCTGTGAAGGAGATACTGAAGGAGCAGGAAAACCGGAAGGGCCTGATAGCC
ATACATAAAAACCAAAAAGAAAAGTGATCAGACGACGACACTTCTCTATGACTTCTCGTCCTTTTGGCCTTCCCGGACTATCGG

16,660

PARK7

PARK7-201

85 90 95 100
S A A V K E I L K E Q E N R K G L I A
ENSE00003499981

PARK7-201

GCCATCTGTGCAGGTGACGTGCAGGGGCAGCCTGTGTTGCAGCGTCATTGGTGGGTGGGGTAGCCTTTTCATTTCGATGGTTTTGATT
CGGTAGACACGTCCACTGCACGTCCCGTCCGGACACAACGTGCGAGTAACCACCCACCCCATCGGAAAGTAAGCTACCAAACTAA

16,745

PARK7

PARK7-201

105
A I C A
ENSE00003499981

PARK7-201

CCAAATAGCTCTTCCCCTTCATAAAGCATGCAGGGCATCTGTGTTGGTGTATTTAGTTTTGGGTGGCATGAAGTTGGTGTCAATTC
GGTTTATCGAGAAGGGGAAGTATTTTCGTACGTCCCCTAGACACAACCACATAAATCAAACCCACCGTACTTCAACCACAGTAAAG

16,830

PARK7

PARK7-201

PARK7-201

AGAGATGAGGACAATTGTTCTGTTTTCTGCCTCTCCATGCCTTTGGTCTACATGCTGTGAAACTTAGTGTTTTCCGTGTTTTGGTT
TCTCTACTCCTGTAAACAAGACAAAAGACGGAGAGGTACGGAAACCAGATGTACGACACTTTGAATCACAAAAGGCACAAACCAA

16,915

PARK7

PARK7-201

PARK7-201

GACCTCGGAGGAAAATAAGGCCCTCTGGAATTCAGTAAACAGCTTGTTACAGCAAGTCTCTGTGCCAGAAAAGTCTTTGTGCCAGC
CTGGAGCCTCCTTTTATTCCGGGAGACCTTAAGTCATTTGTGCAACAATGTCGTTTCAGAGACACGGTCTTTTCAGAAACACGGTCG

17,000

PARK7

PARK7-201

PARK7-201

ACACAATCAGCAAAATCCATCAAACATCAACACAGCAGCTCTGTCTGTGCTTGCCCTGCAAATTCAGAAGCCCCCATGGTGCTT
TGTGTTAGTCGTTTTAGGTAGTTTGTAGTTGTGTCGTCGAGACAGGACACGAACGGGACGTTTAAAGTCTTCGGGGGTACCACGAA

17,085

PARK7

PARK7-201

PARK7-201

TCCGCTGGCTTCTCGGGCGTTTCTGATTGTCTCAGTACCGAGTGATCTTGGGCACCGCATTATCTGCCACATAATTTAGAACAAG
AGGCGACCGAAGAGCCCCGCAAAGACTAACAGAGTCATGGCTCACTAGAACCCGTGGCGTAATAGACGGTGTATTAAATCTTGTTTC

17,170

PARK7

PARK7-201

PARK7-201

GACATTTGGTGCTTCGCAGATGTCTCTTCTCTTTGTACCTTAGTAATATTTTATTTTCTCATAACCATTTTAAAGATCCATTCTT
CTGTAAACCACGAAGCGTCTACAGGAGAAGAGAAAACATGGAATCATTATAAAAATAAAAGAGTATTGGTAAAATTCTAGGTAAGAA

17,255

PARK7

PARK7-201

PARK7-201

GTTGCTTTCCTATCAGATGATGTTCTGCCATTTTGGTTTTTCCCATGCTGTAATTTTGGCAGCACCTTCCTTGTTGTATAGGT
CAACGAAAGGATAGTCTACTACAAGACGGTAAAACCAAAAAGGGTACGACATTAAAAACGGTCGTGGAAGGAACAACATATCCA

17,340

PARK7

PARK7-201

PARK7-201

CTTCATTAAATATTTGTCAGGGCCGGGGCGCAGTGGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGGCTGAGGCGGGCAGATCACC
GAAGTAATTTATAAACAGTCCCAGGCGCCGCGTCCAGGAGTGCAGGACATTAGGGTCTGTGAAACCCCTCCGACTCCGCCCCGTCTAGTGG

17,425

PARK7

PARK7-201

PARK7-201

TGAGGTCAGGAGTTCAAGACCAGCCTGGCCACCATGGTGAAACCCCATCTCTACTAAAAATACAGAAATTAGCCAGGCGTGTTGG
ACTCCAGTCCTCAAGTTCTGGTCGGACCGGTGGTACCACTTTGGGGTAGAGATGATTTTTATGTCTTTAATCGGTCCGCACCACC

17,510

PARK7

PARK7-201

PARK7-201

CGGGCGCCTGTAATCCCAGCTACTCGGGAGGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCGGAGGTTGCAGTGAGCCGAGA
GCCCGCGGACATTAGGGTCGATGAGCCCTCCGACTCCGTCTTAGCGAACTTGGGCCCTCCGCCTCCAACGTCCTCGGCTCT

17,595

PARK7

PARK7-201

PARK7-201

TTGTGCCGTTGCACTCCAGCCTGGGGGACACGAGCGAGACTTCGTCTCAAAAAAAAAATAAAATAAAATAAAATAAATATTTGTC
AACACGGCAACGTGAGGTCGGACCCCTGTGCTCGCTCTGAAGCAGAGTTTTTTTTTTTTATTTTATTTTATTTTATTTTATAAACAG

17,680

PARK7

PARK7-201

PARK7-201

AGAAGAGTGAATGAATAAACGAATGAATGAGTGGATGGTTTTGGTAAACATCAACATCAAAACATGTTGCTGTTGCTATTTTGTTC
TCTTCTCACTTACTTATTTGCTTACTTACTCACCTACCAAACCATTTGTAGTTGTAGTTTTGTACAACGACAACGATAAAACAAG

17,765

PARK7

PARK7-201

PARK7-201

AATACAGTAGGCTTTTCAAAGAAGTTATGGGCCAGAGGTCCTGGGGACTTGATACATTCGAGTATCAGTGGTTCTCAATGTTCT
TTATGTCATCCGAAAAGTTTTCTTCAATACCCGGTCTCCAGGACCCCTGAACTATGTAAGCTCATAGTCACCAAGAGTTACAAGA

17,850

PARK7

PARK7-201

PARK7-201

TTTGGTGCACCTTGCAAGGTCAAAGCAGATGCTACTGAGGGGCCAGGTGTGGTGGCTCATGCCTGTAATCTCAGCATTTTGGGAGG
AAACCACGTGAACGTTCCAGTTTCGTCTACGATGACTCCCCGGTCCACACCACCGAGTACGGACATTAGAGTCGTAAAACCCCTCC

17,935

PARK7

PARK7-201

PARK7-201

CCAAGGCAGAAGGATCTCTTGAAAGCCAGGAGTTTGGAGACTAACCTTGGCAACATAGCCAGACCCCATCTCAACAAACAAACAA
GGTCCCGTCTTCTAGAGAACTTTCGGTCTCTCAAACCTCTGATTGGAACCGTTGTATCGGTCTGGGGGTAGAGTTGTTTGTGTTGTT

18,020

PARK7

PARK7-201

PARK7-201

ACAAAAAATTAGCCAAGCACAGTACTGCATGCATGTAGTCCCAGCTACTCAGGAGGCTGAGATGGGAGGATCGCTTGAAGGCAAG
TGTTTTTTAATCGGTTTCGTGTCATGACGTACGTACATCAGGGTTCGATGAGTCTCCGACTCTACCCTCCTAGCGAACTTCCGTTTC

18,105

PARK7

PARK7-201

PARK7-201

AGTTAGAGGCTGCAGTGAGCTATGATTGCACTCCAGCCTGGGCAGCAGAGTGACACCATGTCTTTCAAACAAAATGTTATTCGCC
TCAATCTCCGACGTCACCTCGATACTAACGTGAGGTCGGACCCGTCGTCTCACTGTGGTACAGAAAGTTTGTGTTTACAATAAGCGG

18,190

PARK7

PARK7-201

PARK7-201

TTTTTCTTCTCAGTCTTTCAGGAGTGACATCAGAGTAGGATGATACCATCATCTGAGAATTTATTATTGTGTTTTAAAAATTC
AAAAAAGAAGAGTCAGAAAGTCTCACTGTAGTCTCATCTACTATGGTAGTAGACTCTTAAATAATAACACAAAATTTTTAAAG

18,275

PARK7

PARK7-201

PARK7-201

CCAGTTTTATTAGGTTGATGTAAAAGTAATTGTGGTTTTTGGCATTAAAAGTAATTGGCGTGCCACAGTGCCGCATGCCTGTAAT
GGTCAAAAATAATCCAACCTACATTTTCATTAACACCAAAAACGGTAATTTTCATTAACCGCACCGTGTACCCGCGTACGGACATTA

18,360

PARK7

PARK7-201

PARK7-201

CTCAGCACTTTGGGAAGCTGAGGTGGGCAGATCGTTTTGAGGTCAGGAGTTCAAACCCAGCCTGGCAAACGTGGTGAAATCCCGTT
GAGTCGTGAAACCCCTTCGACTCCACCCGTCTAGCAAACCTCAGTCTCAAGTTTTGGTCGGACCGTTTGCACTTTAGGGCAA

18,445

PARK7

PARK7-201

PARK7-201

TCTACTAAAAATACAAAAGTTAGCTGGGCATGGTGGTGCACGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGTGGGAGGATCAC
AGATGATTTTTATGTTTTCAATCGACCCGTACCACCACGTGCGGACATTAGGGTTCGATGAGCCCTCCGACTCCACCCCTCCTAGTG

18,530

PARK7

PARK7-201

PARK7-201

TTGAGGTCAGGAGTTCGAAACCAGCCTGGCTAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAAGTTAGCTGGGCAGTTAG
AACTCCAGTCCTCAAGCTTTGGTCGGACCGATTGTACCACTTTGGGGCAGAGATGATTTTTATGTTTTCAATCGACCCGTCATC

18,615

PARK7

PARK7-201

PARK7-201

CTGGGTATGGTGATGCATTCCCTGTAATCCCAGCTATCAGGAGGCTGAGGCAGGAGAATCTATTGAACCCGGGCGGCGGAGGTTGC
GACCCATACCACTACGTAAGGACATTAGGGTCGATAGTCCTCCGACTCCGTCTCTTAGATAAATTGGGCCCGCCGCCTCCAACG

18,700

PARK7

PARK7-201

PARK7-201

AGTGAGCCGCGATTACGCCACTGCACTCCAGCCTGGGTGACACAGCAAGACTGTCTCAAAAAAAGTAATAATTTTTAATATGGC
TCACTCGGCCTAATGCGGTGACGTGAGGTCGGACCCACTGTGTCGTTCTGACAGAGTTTTTTTTTCATTATTAATAAATTATACCG

18,785

PARK7

PARK7-201

PARK7-201

AGATGTTTCATAGATATAACCCACATAAAAAGCTAAAGGGATTCTAAGACCTAAATGTTTGAGAACCGTGGCATTAGGGGCTGGGAA
TCTACAAGTATCTATATTGGGTGTATTTTCGATTTCCCTAAGATTCTGGATTTACAAACTCTTGGCACCGTAATCCCCGACCCCTT

18,870

PARK7

PARK7-201

PARK7-201

GAACCACAGAGGTTGACCACCCTGGCAGGTCTTGTACGTGGGCTTACTACAAGAGTCACCACTAGCCTTTTGACCTGCCCTGAGG
CTTGGTGTCTCCAACCTGGTGGGACCGTCCAGAACATGCACCCGAATGATGTTCTCAGTGGTGATCGGAAAACCTGGACGGGACTCC

18,955

PARK7

PARK7-201

PARK7-201

CTCAGGTAATTATCTCTGCCAAAGGGCACTGCAGTCACTGCAGCCCAAGCAGCTGCTCCCTCTTTGGAGAGAAAAGTCACAGATC
GAGTCCATTAATAGAGACGGTTTTCCCGTGACGTGACGTGACGTGCGGTTTCGTGACGAGGGGAGAAAACCTCTCTTTCAAGTGTCTAG

19,040

PARK7

PARK7-201

PARK7-201

CTTGAGTTTGGTTTTCTTTGGCTCTGCTGCTGTGAAGCAAGCCTCAGTCCTAGATTCTTTGACCAAAGGAAGAAAGAGTTTGGGC
GAACTCAAACCAAAGAAACCGAGACGACGACACTTCGTTTCGGAGTCAGGATCTAAGAAACTGGTTTTCTTTCTCAAACCCG

19,125

PARK7

PARK7-201

PARK7-201

TGAGTTTGTTCCTTATGATTCTGCTGAAAAGTAAAAACCATGTGTCAGTTTGTCTCTGTGCCACAAAAGTAGCAAAATCACTTAAG
ACTCAAAACAAAGGAATACTAAGACGACTTTCATTTTTGGTGACAGTCAAACAGGACACGGTGTTCATCGTTTTAGTGAATTC

19,210

PARK7

PARK7-201

PARK7-201

GTCAGGAGTTTCGAAACCAGCCTGGCCACCATGGTGAAACCCCATCTCTACTAAAAATACAGAAATTAGCCAGGCGTGGTGGCGCG
CAGTCCTCAAGCTTTGGTCGGACCGGTGGTACCACTTTGGGGTAGAGATGATTTTTATGTCTTTAATCGGTCCGCACCACCGCGC

19,295

PARK7

PARK7-201

PARK7-201

TGCCTGTAATCCCAGCTGCTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCTGGGAAGTGGAGGTTGCAGTGAGCCAAGATTGC
ACGGACATTAGGGTCGACGAACCCTCCGACTCCGTCTTACGGAACCTTGGACCCTTACCTCCAACGTCACCTCGGTTCTAACG

19,380

PARK7

PARK7-201

PARK7-201

GCCATTGCACTCCAGCCTGGGCAACAAGAGTGAAACTCCGTCTCAAAAAATAAATAAAATAAATAAATAAATAAATAAATAAACA
CGGTAACGTGAGGTCGGACCCGTTGTTCTCACTTTGAGGCAGAGTTTTTTATTTATTTTATTATTATTATTATTATTATTATTGTT

19,465

PARK7

PARK7-201

PARK7-201

AAATTAGCAGGGCATGGTGGCGCATGCCTGTCGTCTAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCG
TTTAATCGTCCCGTACCACCGGTACGGACAGCAGGATCGATGAACCCTCCGACTCCGTCTCTTAGCGAACTTGGGCCCTCCGC

19,550

PARK7

PARK7-201

PARK7-201

GAGATTGCAGTGAGCCGAGATCGTGCCACTGCACTCCAGCCTGAGCGACAGAGCAAGACTTCGTTTTCAAAAAAAAAAAAAAAAA
CTCTAACGTCACCTCGGCTCTAGCACGGTGACGTGAGGTCGGACTCGCTGTCTCGTTCTGAAGCAAAGTTTTTTTTTTTTTTTTT

19,635

PARK7

PARK7-201

PARK7-201

TCAACCACATTTGGCTTACTGTTTTGTGCTGAGGCTAGATGGAATGCCATGCTAAGAAGCATGGGCCTTATAGTACTTTAAATCA
AGTTGGTGTAACCGAATGACAAAACACGACTCCGATCTACCTTACGGTACGATTCTTCGTACCCGGAATATCATGAAATTTAGT

19,720

PARK7

PARK7-201

PARK7-201

ACATTAATAAAATAAACAGGCTGGCTGTGGTGGCTCATAGCTGTAATCCTAGCACTTTGGGAGACTGAGGTGGGAGGATCACTTGA
TGTAATTTTTTATTTTGTCCGACCGACACCACCGAGTATCGACATTAGGATCGTGAAACCCTCTGACTCCACCCTCCTAGTGA

19,805

PARK7

PARK7-201

PARK7-201

ACCCAGGAGTTCAAGACCAGCCTGGGCAACATAGTGAGACCCCCACCGACCTCTACAAAAAATATTTTTAAAAATCAGCCTG
TGGGTCCTCAAAGTTCTGGTCGGACCCGTTGTATCACTCTGGGGGGGTGGCTGGAGATGTTTTTTTATAAAATTTTTTAGTCGGAC

19,890

PARK7

PARK7-201

PARK7-201

GTGTGGTGGTGCACACTTGTAGTCCCAGCTACTCAGGAGGCTGAGGTGGGAGGATCACTTTGAGCCCAGGAATTTGAGGTTACAT
CACACCACCACGTGTGAACATCAGGGTCGATGAGTCTCCGACTCCACCCTCCTAGTGAAACTCGGGTCCTTAAACTCCAATGTA

19,975

PARK7

PARK7-201

PARK7-201

TGAGATGTGGTGTATCACACCACTGCACTTGAGCCTAAAGGACAGAGCAAGACTTGGTCTCTTAAAAAAAAAAGTAAAAATAGGC
ACTCTACACCACTAGTGTGGTGACGTGAACTCGGATTTCTGTCTCGTTCTGAACCAGAGAATTTTTTTTTTTCATTTTTATCCG

20,060

PARK7

PARK7-201

PARK7-201

CAAGGGCGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGTGCGGATCACAAAGGTCAGGAGATCGAGACCATCC
GTTCCCGCCACCGAGTGTGGACATTAGGGTCGTGAAACCCTCCGGCTCCGCACGCCTAGTGTTCCAGTCTCTAGCTCTGGTAGG

20,145

PARK7

PARK7-201

PARK7-201

TGGCTAACACGGTGAACCCTGTCTCTCTAAAAATACAAAAATTAGCCAGGCGTGGTGGCGGGTGCCTGTAGTCCCAGCTACT
ACCGATTGTGCCACTTTGGGACAGAGAGGATTTTTATGTTTTTAAATCGGTCCGCACCACCGCCACGGACATCAGGGTCGATGA

20,230

PARK7

PARK7-201

PARK7-201

CGGGAGGCTGAGGCAGGAGAATGGTGTGAACCTGGGGGGCAGAGCTTGCAGTGAGCCGAGATTGCGCCACTGCTCTCCAGCCTGG
GCCCTCCGACTCCGTCTCTTACCACACTTGGACCCCCGTCTCGAACGTCACTCGGCTCTAACGCGGTGACGAGAGGTCGGACC

20,315

PARK7

PARK7-201

PARK7-201

GCGACAGAGTGAGACTCCATCTCAAAAAAAAAAAAAAAAAATTATATAAAAAAACAGTAAAAATAGAAAAACACACTAGCAGTGTGTTTATA
CGCTGTCTCACTCTGAGGTAGAGTTTTTTTTTTTTTAAATATATTTTTTGTGCATTTTTTATCTTTTGTGTGATCGTCACACAAATAT

20,400

PARK7

PARK7-201

PARK7-201

CCATTGAATATCCTGCACCACTGTTGTGGGCACTACACCAGAAATAGGAAAAAATGTGATGATGAGCTGAGCTAATTGAGATGAG
GGTAACTTATAGGACGTGGTGACAACACCCGTGATGTGGTCTTTATCCTTTTTTACACTACTACTCGACTCGATTAACTCTACTC

20,485

PARK7

PARK7-201

PARK7-201

GGTTATGGGAATGGAACAGAGGAGTGATGGAAGAGATTTGGATCTTTTAAATTGGCAAACAGAAAAATAAGATTCTTTTTTTTTT
CCAATACCCTTACCTTGTCTCCTCACTACCTTCTCTAAACCTAGAAAATTTAACCGTTTGTCTTTTTATTCTAAGAAAAAAAAA

20,570

PARK7

PARK7-201

PARK7-201

TTTTTTTTGTTGAAATGGGAGCTTTGCTCTTGTGGCCCAAGCTGGAGTGCAGTGGTGCAATTTGGGCTCACTGCAACCTCCACCT
AAAAAAAAACAACCTTACCTCGAAACGAGAACAACGGGTTTCGACCTCACGTACCACGTTAAAGCCGAGTGACGTTGGAGGTGGA

20,655

PARK7

PARK7-201

PARK7-201

CCCAGGTTCAAGCGATTCTCCTGCCTCAGGCTCCCGAGTAGCTAGAATTACAGGCACCTGCCACCATGCCAGCTAATTTTTGTA
GGGTCCAAGTTCGCTAAGAGGACGGAGTCCGAGGGGCTCATCGATCTTAATGTCCGTGGACGGTGGTACGGGTTCGATTA AAAACAT

20,740

PARK7

PARK7-201

PARK7-201

TTTTTGGTAGAGACGGGGTTTACCATGTTAGCCAGGCTGGTCTCGAACTCCTGATCTCGTGATCCGCCACCTTGGCCTCCCAA
AAAAACCATCTCTGCCCAAAGTGGTACAATCGGTCCGACCAGAGCTTGAGGACTAGAGCACTAGGCGGGTGGAACCGGAGGGTT

20,825

PARK7

PARK7-201

PARK7-201

AGTGCTAGGATTACAGGCGTGAGCCACCGCACCCAGCCAAGATTATTCTGAAGTGTTCAGTTAGGGATTGGAAACATTTTGAAC
TCACGATCCTAATGTCCGCACTCGGTGGCGTGGGTTCGTTCTAATAAGACTTCACAACGTCAATCCCTAACCTTTGTAAAACCTTG

20,910

PARK7

PARK7-201

PARK7-201

ACAAAGAATATTAGCCTAGTCCTTAATATTGAGTGAATGAGGAACGCAAATTGGAAGGGAGTCTATGTTGAGAAGAAAATTAAT
TGTTTTCTTATAATCGGATCAGGAATTATAACTCACTTACTCCTTGCGTTTAAACCTTCCCTCAGATACAACCTCTTCTTTTAATTTA

20,995

PARK7

PARK7-201

PARK7-201

GATATTTACTTTGAGTAGGGGAGGGGGAGGAAGTGTGGAGTTGGAGGAGTGGACAGTTGTCAGCTGAGATGCCAGGTCTAGGAA
CTATAAATGAAACTCATCCCCTCCCCTCCTTCACACCTCAACCTCCTCACCTGTCAACAGTCGACTCTACGGGTCCAGATCCTT

21,080

PARK7

PARK7-201

PARK7-201

TGAGGCCTCTGGAAGCAAGGTCTTGGCCACCTGGAGGAGCTGGGGAGTTGGCAGAGGTGGTCATTTTGCATGTTACCACAGGGTG
ACTCCGGAGACCTTCGTTCCAGAACCGGTGGACCTCCTCGACCCCTCAACCGTCTCCACCAGTAAAACGTACAATGGTGTCCCAC

21,165

PARK7

PARK7-201

PARK7-201

GTGCTGTTGGCTGCAGAAGGGGACATGGTTCAGCTGCGCCCTCTGCACTGTAGTGCAGAGTACAGAGCGTTTTTCATCCATCAGAAT
CACGACAACCGACGTCTTCCCCTGTACCAGTCGACGCGGGAGACGTGACATCACGTCTCATGTCTCGCAAAGTAGGTAGTCTTA

21,250

PARK7

PARK7-201

PARK7-201

CCCAGGTCTGGGAGAGTGAAACGTCTCTTCTCCAGTATTCCAAATAGGGTTCTGACGCCCCAGAAAAGCAGTGATTATGAGCTTA
GGGTCCAGGACCCTCTCACTTTGCAGAGAAGAGGTCATAAGGTTTATCCCAAGACTGCGGGGTCTTTTCGTCACTAATACTCGAAT

21,335

PARK7

PARK7-201

PARK7-201

CCTGATAAGTATGAAAGACATCAGTAAATTCCTGAATCCAACCTGTAACATAAATTTATTCACATCGTAGCAGTGATTTTATTACC
GGACTATTCATACTTTCTGTAGTCATTTAAGGACTTAGGTTGACATTGTATTTAAATAAGTGTAGCATCGTCACTAAAATAATGG

21,420

PARK7

PARK7-201

PARK7-201

ACCTTGAAGGGAGCAGCCTAAAAATTCTCGTTCACCGATCACTTTCCTCACTGTGCTATCATCTATTAAGTTTACTTTAAAATG
TGGAACCTCCCTCGTCGGATTTTTAAGAGCAAGTGGCTAGTGAAAGGAGTGACACGATAGTAGATAATTTCAAATGAAATTTTAC

21,505

PARK7

PARK7-201

PARK7-201

CAAGATGATGTAGGAATTTCTTCTTAAATTTCTTACCAAATAAAAAATTA AAAACAATTTATAAATCCATTCAAATAAAAAATTGATA
GTTCTACTACATCCTTAAAGAAGAATTTAAGAATGGTTTATTTTTAATTTTTTGTAAATATTTAGGTAAGTTTATTTTTAACTAT

21,590

PARK7

PARK7-201

PARK7-201

ATTATTCAATTCTTACGGACTTCTAAAATTTGCTACCATACATAGCTGTCTTGTGTGTAAAAATAACGTGGAGAAGAGACATTTG
TAATAAGTTAAGAATGCCTGAAGATTTTAAACGATGGTATGTATCGACAGAACACACATTTTTATTGCACCTCTTCTCTGTAAAC

21,675

PARK7

PARK7-201

PARK7-201

AGGCTTTTGTATTTAAGAGCTATAAATCAGGACTTGGTCTGAAACTGACAGCTGATATTAGGCAGAAAAGCTTATGTAATTAGGTAG
TCCGAAAACATAAATCTCGATATTTAGTCCTGAACCAGACTTTGACTGTGCGACTATAATCCGTCTTTTGAATACATTAATCCATC

21,760

PARK7

PARK7-201

PARK7-201

TATTTGTGTGATCTTCCTGTTTGTAAACAGCTACGGTCTGAGTAGCTTGTGGGTATATTATATAATTCCTTCCTTGGAGTCTTGTT
ATAAACACACTAGAAGGACAAACATTGTCGATGCCAGACTCATCGAACACCCATATAATATATTAAGGAAGGAACCTCAGAACAA

21,845

PARK7

PARK7-201

PARK7-201

GAAAAATGAAAGGACAGTAAGACCAAGACCTCTCAGGTTTGTGACTAAAAGTGTACAAACTGTGCCACAGGATCTTAGCCAT
CTTTTTACTTTCTGTCATTCTGGTTCTGGAGAGTCCAAACGACTGTGATTTTACATGTTTGACACGGTGTCTTAGAATCGGTA

21,930

PARK7

PARK7-201

PARK7-201

CCAGGGCACCTTAAGTGTTC AAGATCAAGGTGCTGTTCTGAAACGTATCCTTCTAAGTGTCATGTGAGGCCCTTAGAAAGAATG
GGTCCCGTGGAATTCACAAAGGTTCTAGTTCCACGACAAGACTTTGCATAGGAAGATTACACAGTACACTCCGGAATCTTTCTTAC

22,015

PARK7

PARK7-201

PARK7-201

TTTATATGTGTGGCTTAGAGGAAAAAGGTAGAATGAATACTTTGTAAAAAGCTTTAAGATGAAATAACAATGAAAGGTATATAAA
AAATATACACACCGAATCTCCTTTTTCCATCTTACTTATGAAACATTTTTCGAAATCTACTTTATTGTTACTTTCCATATATTT

22,100

PARK7

PARK7-201

PARK7-201

ATCTTTGTTTTTAATCCTTATTTAGGACCATTACATACGCAATATGCTTGTGACCCCTCCCTGAAGTTGGCCGTTTTTCAGTGAATA
TAGAAACAAAAATTAGGAATAAATCCTGGTAATGTATGCGTTATACGAACACTGGGAGGGACTTCAACC GGCAAAAGTCACTTAT

22,185

PARK7

PARK7-201

PARK7-201

CATTTAAATAAAAAATCTCAAGTTAGGACCTGCCAATTTGGAAAGACTTCATCAACTGACACTTCCATGTGGTTCTTTGCTTAAGT
GTAAATTTATTTTATAGAGTTCAATCCTGGACGGTTAAACCTTTCTGAAGTAGTTGACTGTGAAGGTACACCAAGAAACGAATTCA

22,270

PARK7

PARK7-201

PARK7-201

AGCTTTCATCACGTGATGCTAGTGCCTTTATATCTCACACTTCCAGGCCTTCACAGGCTATCTCCTTCAAGGACAGTGTGCTGT
TCGAAAGTAGTGCACCTACGATCACGGAAATATAGAGTGTGAAGGTCCGTGAAGTGTCCGATAGAGGAAGTTCTGTACACGACA

22,355

PARK7

PARK7-201

PARK7-201

CCATTTTAATCCTACCACCTGGCATACTTGGGTGGATAGGTGGATGAACGAGTGTAAATTTCCATTTTATTTATTTATTTTAA
GGTAAATTAGGATGGTGGACCGTATGAACCCACCTATCCACCTACTTGCTCACAATTAAGGGTAAAAATAAATAAAAAAAT

22,440

PARK7

PARK7-201

PARK7-201

TTTATTTTGAGACAGAGTCTCGCTCTGTGCGCCAGGCTGGAGTGCAGTGGCACGATCTTGGCTCACTGAAAGCTCTGCCTCCCGG
AAATAAACTCTGTCTCAGAGCGAGACAGCGGGTCCGACCTCACGTACCGTGCTAGAACCGAGTGACTTTCGAGACGGAGGGCC

22,525

PARK7

PARK7-201

PARK7-201

GTTACCCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCGCCCGCCACCACGCACAGCTAATTTTTTGTATTTT
CAAGTGGGGTAAGAGGACGGAGTCCGAGGGCTCATCGACCCTGATGTCCGCGGGCGGTGGTGCCTGTCGATTAAAAAACATAAAA

22,610

PARK7

PARK7-201

PARK7-201

TAGTAGAGACAGGGTTCCAGCGTGTTAGCCAGGATGGTCTTGATCTCCTGACCTCATGATCCAGCCGCCTTGGCCTCCCAAAGTG
ATCATCTCTGTCCCAAGGTCGCACAATCGGTCTACCAGA ACTAGAGGACTGGAGTACTAGGTCGGCGGAACCGGAGGGTTTCAC

22,695

PARK7

PARK7-201

PARK7-201

CTGGGAATACAGGCATGAGCCACCGTGCCCGGCCTAATTTCCCATTTTCAAGTAGAAAAATAAGATTACAAAAGAGCAATAAAATC
GACCCCTTATGTCCGTA CTCTCGGTGGCACGGGCCGGATTAAGGGTAAAAGTTCATCTTTTATTCTAATGTTTTCTCGTTATTTTTAG

22,780

PARK7

PARK7-201

PARK7-201

CAGAAGTTCAGAGAGTACCAGTTGCCTTTAGCATGTAACATAAATCTTTCTTTTACTAAGAGTGAGGTAAGAAGTTGAGCCCGCC
GTCTTCAAGTCTCTCATGGTCAACGGAAATCGTACATTGATTTAGAAAAGGAAAATGATTCTCACTCCATTCTTCAACTCGGGCGG

22,865

PARK7

PARK7-201

PARK7-201

CCAGTGATCCTCCCCCTCCTTTGGACTCCTGGTATATGTGGTCCCTGTTCTGGGGATGGGGAAGGTGAGAGAGGTGAGCACATTT
GGTCACTAGGAGGGGGAGGAAACCTGAGGACCATATACACCAGGGACAAGACCCCTACCCCTTCCACTCTCTCCACTCGTGTA

22,950

PARK7

PARK7-201

PARK7-201

TGTTTATCTGTGTATGCTCTGCTGGTATCAAGGTAAATCTTCTTGAGTAAATGGTTATTGAAGTATTTTGAAGTTTCTGTGCTTTT
ACAAATAGACACATACGAGACGACCATAGTTCCATTTAGAAGAACTCATTTACCAATAACTTCATAAAACTCAAAGACACGAAAA

23,035

PARK7

PARK7-201

PARK7-201

GCCAGATGTGCTCAGCAAATCGTTTGTATAAACATACTTTATCTCTCATACTAGGAAGTGTTTCATTTTCAAGAAATCGTAGCTGTA
CGGTCTACACGAGTCTGTTTAGCAAACAATATTTGTATGAAATAGAGAGTATGATCCTTCACAAAAGTAAAGTCTTAGCATCGACAT

23,120

PARK7

PARK7-201

PARK7-201

TGTTTGGTAAGAGCCTCTTGATTTTGAAGAATACTTTGCTGTTGCAGTTTTTGTGTTGTTAGAGAAGGGGTCTGTGTTGCCAG
ACAAACCATTCTCGGAGA ACTAAA ACTTCTTATGAAACGACAACGTCAAAAACAACAACATCTCTTCCCCAGACACAACGGGTC

23,205

PARK7

PARK7-201

PARK7-201

GCTGATGTTGAATTCCTGGGCTCAAGCAATTTTTCTACCTAGGCCTCCCCAATTGCTGGGATTACAGGCATGAGCCACTGTGCCA
CGACTACA ACTTAAGGACCCGAGTTCGTTAAAAAGATGGATCCGGAGGGGTTAACGACCCTAATGTCCGTA CTCTCGGTGACACGGT

23,290

PARK7

PARK7-201

PARK7-201

GGCACTATTGCGATTTTTTAAACATGGGCTTTTCTATATCTGCACTTAGATCTTTTTATTCTTCTTAGGTCCTACTGCTCTG
CCGTGATAACGCTAAAAAATTTGTACCCGAAAAGATATAGACGTGAATCTAGAAAAATAAAAAAAGAATCCAGGATGACGAGAC

23,375

PARK7

PARK7-201

110
G P T A L
ENSE00002898274

PARK7-201

TTGGCTCATGAAATAGGTTTTGGAAGTAAAGTTACAACACACCCCTCTTGCTAAAGACAAAATGATGAATGGAGGTAAGTATATGC
AACCGAGTACTTTATCCAAAACCTTCAATTTCAATGTTGTGTGGGAGAACGATTTCTGTTTTACTACTTACCTCCATTTCATATACG

23,460

PARK7

PARK7-201

115 120 125 130 135
L A H E I G F G S K V T T H P L A K D K M M N G
ENSE00002898274

PARK7-201

TTGTTTTGTTTGTGGTTTTGTTTTGTTTTGTTTTGTTTTGAGATGGAGTCTCGCTCCATCGCCAGGCTGGAGTGCAGTGGCGTGATCTTGGCTTAC
AACAAAAACAAACAAACAAACAAACAAACAAACAAACTCTACCTCAGAGCGAGGTAGCGGGTCCGACCTCACGTACCGCCTAGAACCGAATG

23,545

PARK7

PARK7-201

PARK7-201

TGCAATCCCTGCCTCCCGGGTTCAAGCGATTCTTCTCTCTCAGCCTCCTGAGTAGCTGGGATTACAGGCGCATGCCATCACACCC
ACGTTAGGGACGGAGGGCCCAAGTTCGCTAAGAAGAGAGAGTCCGAGGACTCATCGACCCTAATGTCCGCGTACGGTAGTGTGGG

23,630

PARK7

PARK7-201

PARK7-201

AGCTAATTTTTGTATTTTTAGTAGAGATGGAGTTTCACCATGTTGGTCAGGCTGGTCTCAAACCTTTTTTTTTTTTTTTTTTTTTT
TCGATTAATAACATAAAAAATCATCTCTACCTCAAAGTGGTACAACCAGTCCGACCAGAGTTTGAGAAAAAAAAAAAAAAAAAAAAA

23,715

PARK7

PARK7-201

PARK7-201

TTTTTTTTTGAGACAGAGTCTCGCTCTGTTGCCAGGCTGGAGTGCCATGGTGC GTTCTCTGCTCACTGCAACTTCCGCCTCCCG
AAAAAAAACCTCTGTCTCAGAGCGAGACAACGGGTCCGACCTCACGGTACCACGCAAGAGACGAGTGACGTTGAAGGCGGAGGGC

23,800

PARK7

PARK7-201

PARK7-201

GGTTCAAGTGATTCTTCTGCCTCAGCCTCCTGAGTAGCTGGGATCACAGGTGTGCTCCACCACGCCTGGCTAATTTTTGTATTTT
CCAAGTTCAC TAAGAAGACGGAGTCCGAGGACTCATCGACCCTAGTGTCCACACGAGGTGGTGC GGACCGATTAAAAACATAAAA

23,885

PARK7

PARK7-201

PARK7-201

TTAGTAGAGATGGGGTTTCTCCATGTTGGTCATGCTGGTCTTGAACCTTCTGACCTTGTGATCCACCCGCCTCAGCCTCTGAAAAGT
AATCATCTCTACCCCAAAGAGGTACAACCAGTACGACCAGAACTTGAAGACTGGAACACTAGGTGGGCGGAGTCTGGAGACTTTCA

23,970

PARK7

PARK7-201

PARK7-201

GCTGGGATTACAGGCATGAGCCACCGCGCCCAGTCTCGAACTCTTGACCTTGTGATCTGCCTGCCTCAGCCTCCCAGAGTGCTGG
CGACCCTAATGTCCGTACTCGGTGGCGCGGGTCAGAGCTTGAGAACTGGAACACTAGACGGACGGAGTCTGGAGGGTCTCACGACC

24,055

PARK7

PARK7-201

PARK7-201

GATTACAGGTGTTAGCCACCGCGCCTGGCCCATATGCCTGTGTGTGGTTTTTTTTTTTTTTTTTTGAGATGGAGTCTCTCGCTCTGT
CTAATGTCCACAATCGGTGGCGCGGACCGGGTATACGGACACACACCAAAAAAAAAAAAAAAAAAACTCTACCTCAGAGAGCGAGACA

24,140

PARK7

PARK7-201

PARK7-201

TGCCCAGGCTGGAATGCAGTGGTGTGATCTCAGCTCACTGCAACCTCCGCCTCCCGGGTTCAAGGGACTCTCCTGTCTCAGCCTC
ACGGGTCCGACCTTACGTCAACCACACTAGAGTCGAGTGACGTTGGAGGCGGAGGGCCCAAGTTCCTGAGAGGACAGAGTCGGAG

24,225

PARK7

PARK7-201

PARK7-201

CCGAGTAGCTGGGATTACAGGCATGTGCCACCACAAGTTTCTGTAGACTGGGCACAGTGGCTTCCGCCTGTAATCCCAGTACTT
GGCTCATCGACCCTAATGTCCGTACACGGTGGTGTTCAAAGAACATCTGACCCGTGTCACCGAAGGCGGACATTAGGGTTCATGAA

24,310

PARK7

PARK7-201

PARK7-201

TGGGAGGCTGAGGCGGGTGGATCGCTTGAGCCCCGAGTTCGAGACCAGCCTGGGCAACATGGTTAAACTCCATCTCTACTAAAAA
ACCCTCCGACTCCGCCACCTAGCGAACTCGGGGCTCAAGCTCTGGTCTGGACCCGTTGTACCAATTTGAGGTAGAGATGATTTTTT

24,395

PARK7

PARK7-201

PARK7-201

TACAAAAACATTAGCCAGGCATGGTGTGATGCACACTGGTAGTTGCAGCTGCTCAGGAGGCTGAGGTGGGATGATCGCTTTAAGCC
ATGTTTTTTGTAATCGGTCCGTACCACTACGTGTGACCATCAACGTCTGACGAGTCTCCGACTCCACCCTACTAGCGAAATTCGG

24,480

PARK7

PARK7-201

PARK7-201

TGGGAGGTCAAAGCTATGGTGAGCTGTGATCTCGCCACTGAACTCCAGCCTGGAGGACAAAGCAAGACCCCTATCAAAAAAAAAAAAA
ACCCTCCAGTTTTCGATACCACTCGACACTAGAGCGGTGACTTGAGGTCGGACCTCCTGTTTCGTTCTGGGATAGTTTTTTTTTTTT

24,565

PARK7

PARK7-201

PARK7-201

AAAAAAAAAGTTTCTTGTGTACCTGTAGAATTTTATCTATCACATACTCATTATCCTTTTTATTTTAACTAAAATGAGATCTACT
TTTTTTTTTCAAAGAACACATGGACATCTTAAAATAGATAGTGTATGAGTAATAGGAAAAATAAAATTGATTTTACTCTAGATGA

24,650

PARK7

PARK7-201

PARK7-201

AAATGTATTGTTCTGCAGCTTGCTTTTTTAACTTAATGTTAATATCTTATGTTATCTTTTAAACAGCACATGTAGATTTAGATTT
TTTACATAACAAGACGTCGAACGAAAAAATTGAATTACAATTATAGAATACAATAGAAAATTGTCGTGTACATCTAAATCTAAA

24,735

PARK7

PARK7-201

PARK7-201

GCTTCATCCTTGTTAAGTACAGCTGCTAGTCCAGTGTTGGAATGTGCCATGCTGTATGTAACCTTCTCCTGGGGGTGGGCATGAA
CGAAGTAGGAACAATTCATGTCGACGATCAGGTCACAACCTTACACGGTACGACATACATTGGAAGAGGACCCCCACCCGTA

24,820

PARK7

PARK7-201

PARK7-201

GGTGGTTTTCTGCTTTTGCCTTGTAACCATGCCATAATGATCATCCTTGAATGCCGCTGTGAGCATATCTGAGCTCCACTTTA
CCACCAAAAAGACGAAAACGGGAACATTTGGTACGGTATTACTAGTAGGAACCTTACGGCGACACTCGTATAGACTCGAGGTGAAAT

24,905

PARK7

PARK7-201

PARK7-201

AAAGTGATGCACTTTTCATTATACTGCATGTTTTTTAATTAATAACTTTAGTTTTTTAGAGCAGTTTTTAGGTTACAGCCAAAT
TTTCACTACGTGAAAAGTAATATGACGTACAAAAAATTAATGATTTGAAATCAAAAAATCTCGTCAAAATCCAAGTGTCGGTTTA

24,990

PARK7

PARK7-201

PARK7-201

TCCCGTCTACCTTGACCCACTCGCCACTCCCCAGGCCCCCGCCCTGGCCATGCATAGCCTCCCCTACTATCAACATCCTGCACC
AGGGCAGATGGAACCTGGGTGAGCGGTGAGGGGTCCGGGGCGGGGACCGGTACGTATCGGAGGGGATGATAGTTGTAGGACGTGG

25,075

PARK7

PARK7-201

PARK7-201

AGAATCTGTACCCACATTGACACATCATCATCCAGAGTCCACAGTTTACATGAGGGTTCTCTCTTGCTGTTGTACATTCTACATA
TCTTAGACATGGGTGTAAGTGTGTAGTAGTAGGTCTCAGGTGTCAAATGTACTCCCAAGAGAGAACGACAACATGTAAGATGTAT

25,160

PARK7

PARK7-201

PARK7-201

CAGTTACATTTGATCCAGAGCAGTGTTCCTGAAAATCCATGGTTTGTATTTATTTAATGTATTTGAGACAGAGGCTTGCTC
GTCAATGTAAACTAGGTCTCGTCCAAAAAGGACTTTTAGGTACCAAACAAATAAATAAATTACATAAACTCTGTCTCCGAACGAG

25,245

PARK7

PARK7-201

PARK7-201

TGTCACCCAGGCAGGAGTGCAGTGGTGTGATCTCAGTTTCATTGTAACCTCCACCTCTTGGGATCAGGCAATCCTCTCACCTCAGC
ACAGTGGGTCCGTCCCTCACGTCACCACACTAGAGTCAAGTAACATTGGAGGTGGAGAACCCTAGTCCGTTAGGAGAGTGGAGTCG

25,330

PARK7

PARK7-201

PARK7-201

CTCCCGAGTAGCTGGAACATATGGGTATGAGCCACCACACTTGGCTAATTTTTAAATTTTTTTGTAGAGACAGGGTCTAACCATAT
GAGGGCTCATCGACCTTGATACCCATACTCGGTGGTGTGAACCGATTAAAAATTTAAAAAACATCTCTGTCCCAGATTGGTATA

25,415

PARK7

PARK7-201

PARK7-201

TGCACAGTCTGGTCTTGAACCTCCTGGCCTCAAGCGATCCTTCTGGCTTGGCCTCCCAAAGTACTAGGATTACAGATGTGAGCCAC
ACGTGTCAGACCAGAACTTGAGGACCGGAGTTCGCTAGGAAGACCGAACCGGAGGGTTTTATGATCCTAATGTCTACACTCGGTG

25,500

PARK7

PARK7-201

PARK7-201

TGTGCCCGCTCATGGTTTTATTTTAGTTGCTAGAAAGATACTATGTTATCATTAAAACGATCTGTTTGAAAATTGGTACTTTTT
ACACGGGGCGAGTACCAAAATAAAATCAACGATCTTTCTATGATACAATAGTAATTTTGCTAGACAAACTTTTAACCATGAAAAA

25,585

PARK7

PARK7-201

PARK7-201

GCTGGATGCAGTGAATCCCAGCACTTGGGGAGGCCGGTGGGGGAGGTAGATCACGAGGTCAGGAGATCGAGAC
CGACCTACGTCACTGAGTGCAGGACATTAGGGTCGTGAACCCCTCCGGCCACCCCTCCATCTAGTGTCTCCAGTCTCTAGCTCTG

25,670

PARK7

PARK7-201

PARK7-201

CATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAATGTAATAAAAAAATTAGCTGGGCGTGGTGGCGGGCACCTGTAGTCCC
GTAGGACCGATTGTGCCACTTTGGGGCAGAGATGATTTACATGATTTTTTTAATCGACCCGCACCACCGCCCGTGGACATCAGGG

25,755

PARK7

PARK7-201

PARK7-201

AGCTACTCAGGAGGCTGAGGCAGGAGAGTGGCGTGAACCCAAGAGGTGGAGCTTGCAGTGAGCTGAGATCGTGCCACTGCACTCC
TCGATGAGTCTCCGACTCCGTCTCTCACCGCACTTGGGTTCTCCACCTCGAACGTCACTCGACTCTAGCACGGTGACGTGAGG

25,840

PARK7

PARK7-201

PARK7-201

AGCCTGGGCAACAGAGTGAGACTCCATCTCAAAAAAAAAAAAAAAAAAATTGGTACTTTTTAATAAAAGTCTCTGGTTTTCTGGGCAT
TCGGACCCGTTGTCTCACTCTGAGGTAGAGTTTTTTTTTTTTTTTTTAACCATGAAAAATTATTTTCAGAGACCAAAGACCCGTA

25,925

PARK7

PARK7-201

PARK7-201

TTTAAATGTAGGAATTTAATTTACTTTAAGCTCATGGAGGGATTTTAGAGCGTTGAAAGAAATGGAAAGAACAGAACTGGGCTCC
AAATTTACATCCTTAAATTAATGAAATTCGAGTACCTCCCTAAAATCTCGCAACTTTCTTTACCTTTCTTGTCTTGACCCGAGG

26,010

PARK7

PARK7-201

PARK7-201

CTTTGTGATGTCTTCAGAGGGAAGACAAGCGGAGCGCGCTCCTGCACTACCTGAAGGTGTGCCTGTTGCATCTGTTTTCTTTAG
GAAACACTACAGAAGTCTCCCTTCTGTTTCGCTCGCGCGAGGACGTGATGGACTTCCACACGGACAACGTAGACAAAAGGAAATC

26,095

PARK7

PARK7-201

PARK7-201

TGCCTCAAAAACATTGAGGTTGGTCAGGCATAGAAAAAGATCAGATTGTTGATGCTCACACTTGGAGTTTACAAAGCACGTTCCC
ACGGAGTTTTTGTAACTCCAACCAAGTCCGTATCTTTTTCTAGTCTAACAACTACGAGTGTGAACCTCAAATGTTTCGTGCAAGGG

26,180

PARK7

PARK7-201

PARK7-201

GTACGTTATCTTGGTGGAGCTTCCCTGGTCCCCAGTGCCCAAGGCAGGTGGCATCATCCTGGCTTCAAAAACAAGGAGAGACT
CATGCAATAGAACCACCTCGAAGGACCAGGGGTCACGGGTCGTTCCGTCCACCGTAGTAGGACCGAAGTGTTCCTCTCTGA

26,265

PARK7

PARK7-201

PARK7-201

GAGGCCAGAGCTCAAGCCCAGCCCTCTGCCTTGCATCCAGTTTTGGCTTCCTGCCCTCCCCTGCTCTGTGGTAGCAAAAAGGCTC
CTCCGGTCTCGAGTTCGGGTCGGGAGACGGAACGTAGGTCAAAACCGAAGGACGGGGAGGGGACGAGACACCATCGTTTTCCGAG

26,350

PARK7

PARK7-201

PARK7-201

CCACACATTTAAGTTACCAGGTGTTGGATTTAGTCAGTAACCTCTATTATAAGAAATGGATACTTGAAATGTCTACTCCTTCAGG
GGTGTGTAATTC AATGGTCCACAACCTAAATCAGTCATTGGAGATAATATTCTTTACCTATGAACTTTACAGATGAGGAAAGTCC

26,435

PARK7

PARK7-201

PARK7-201

ACACTTCGAGAGGTAGGGCTGCAGTCATCACCTGGGGTCTGCTCTGGGTGAGGCCCTTGTCCTCACTGTGAACTTGAAAGATCA
TGTGAAGCTCTCCATCCCGACGTCAGTAGTGGACCCCCAGACGAGACCCACTCCGGGAACAGGAGTGACACTTGAACCTTTCTAGT

26,520

PARK7

PARK7-201

PARK7-201

GTGTGACAGTTTCTTCTCAGATAAGCAATCCCATCTGAAGACCATAGTCTTTTTTCTTTTTTCTTATCTTTTTTTTGATAGATT
CACACTGTCAAAGAAGAGTCTATTCGTTAGGGTAGACTTCTGGTATCAGAAAAAAGAAAAAAGAATAGAAAAAACTATCTAA

26,605

PARK7

PARK7-201

PARK7-201

CAGGGTCTCACTATGTTGCCCAAGCAGTACTTAAACTCCTGGGCTCAAATGACCCTCCACCTTGGTCTCCCAAAGTGCTGGAAT
GTCCAGAGTGATACAACGGGTTTCGTCATGAATTTGAGGACCCGAGTTTACTGGGAGGGTGGAACCAGAGGGTTTTACGACCTTA

26,690

PARK7

PARK7-201

PARK7-201

TACAGGTGTGTGCTACCAGCTCCAGTCCCCATAATCTTTTAATTCCTCCGATTTTAGAATAAGTCAGTTATAACTGTAATGTGTG
ATGTCCACACACGATGGTTCGAGGTTCAGGGGTATTAGAAAAATTAAGGAGGCTAAAAATCTTATTCAGTCAATATTGACATTACACAC

26,775

PARK7

PARK7-201

PARK7-201

ATTCCGTTTCTCATTTGTCCACTGTTTGATGGCATCCGCATGCCTGGTCCCATACCCGAGCACTGAAGAGCAGGGTCTCTGGAGC
TAAGGCAAAGAGTAAACAGGTGACAAACTACCGTAGGCGTACGGACCAGGGTATGGGCTCGTGACTTCTCGTCCCAGAGACCTCG

26,860

PARK7

PARK7-201

PARK7-201

CTGGCATCGTGGGGTGGCCCTCAGCTTCCCCACTCACTGTGGGAAGTTTCTTAGTGTCTCTGAGCCTGTTTCCTCATCCGTTGC
GACCGTAGCACCCACCGGGAGTCTGAAGGGGTGAGTGACACCCCTTCAAAGGAATCACAGAGACTCGGACAAAGGAGTAGGCAACG

26,945

PARK7

PARK7-201

PARK7-201

CTGAGGATAAACCTGCTTCAGGATTGTTGGTGAAAAGACTTCCCTCACCTAGCTTCTGTAACGCCACTGCATGCCACCACTGCTG
GACTCCTATTTGGACGAAGTCTTAACAACCACTTTTCTGAAGGGAGTGGATCGAAGACATTGCGGTGACGTACGGTGGTGACGAC

27,030

PARK7

PARK7-201

PARK7-201

AGTACTGTTTGTGGCTAGGTTGGTGTCAATTCTCATTTTTACCAGAAAGTGAAGCTCTGAGAGGTCAGACAGCCACTAAATGGCAG
TCATGACAAACAAACGATCCAACCACAGTAAGAGTAAAATGGTCTTTCACTTCGAGACTCTCCAGTCTGTCGGTGATTTACCGTC

27,115

PARK7

PARK7-201

PARK7-201

ACCTGGGATTTGAACCCAGAACTCTGCTCAGGGGTCAACTGACTGCTCCCCAAAGGCCAGGTGGTAAATATTGCAGGCTTTCTGG
TGGACCTAAACTTGGGTCTTGAGACGAGTCCCCAGTTGACTGACGAGGGGTTTCCGGTCCACCATTTATAACGTCCGAAAGACC

27,200

PARK7

PARK7-201

PARK7-201

GACTTCAGATCTCTGGCAGCTACTCAACTGTTGCACCTCCACAATAGCTACAGACAGTACTAAACACGCAGGGTGGCTTTGTGCC
CTGAAGTCTAGAGACCGTCGATGAGTTGACAACGTGGAGGTGTTATCGATGTCTGTCATGATTTGTGCGTCCCACCGAAACACGG

27,285

PARK7

PARK7-201

PARK7-201

AGTGAAGCTGCATTTGCAAAAACAGGCAGCAACCTGGCCTCGGCCCTCAGGCTTGTGCTTGCTGACCTGTGTCCTGTGTCTTTTG
TCACTTCGACGTAAACGTTTTTGTCCGTCGTTGGACCGGAGCCGGGAGTCCGAACAGCAACGACTGGACACAGGACACAGAAAAC

27,370

PARK7

PARK7-201

PARK7-201

TTTTTTTTTTTTTTTTGAGACAGAGTCTCTCTCTGTGCATCCAGGCTGGAGTACAGTGGCACGATCTGTGCTCACGGCAAGCTCCG
AAAAAAAAAAAAAAAAACTCTGTCTCAGAGAGAGACAGTAGGTCGACCTCATGTACCGTGTCTAGACACGAGTGCCGTTTCGAGGC

27,455

PARK7

PARK7-201

PARK7-201

CCTCCCAGGTTTACGCCATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGTGCCCGCCACCACGCCTGGCTTATTTTT
GGAGGGTCCAAGTGCGGTAAGAGGACGGAGTCGGAGGGTTTCATCGACCTGATGTCCACGGGCGGTGGTGCGGACCGAATAAAAA

27,540

PARK7

PARK7-201

PARK7-201

TGTATTTTTAGTAGAGACGGGGTTTTTCATCGTGTTAGCCAGGATGGTCTCGATCTCCTGACCTTGTGATCTGCCCTCCTCGGCTTC
ACATAAAAAATCATCTCTGCCCCAAAAGTAGCACAATCGGTCTACCAGAGCTAGAGGACTGGAACACTAGACGGGAGGAGCCGAAG

27,625

PARK7

PARK7-201

PARK7-201

CCCATGTGCTGGGATTACAGGCGTGAGCCACTATGCCAGCCCCCCCCGCCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGACGG
GGGTACACGACCCTAATGTCCGCACTCGGTGATACGGGTCGGGGGGGCGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAACTCTGCC

27,710

PARK7

PARK7-201

PARK7-201

AGTCTTGCTCTCTCACCCAGGCTGAAGTGCAAGTGACGCATCTCGGCTCACTGCAACCTCCGCCTCCCGGGTTCAAGTGATTCTCC
TCAGAACGAGAGAGTGGGTCCGACTTCACGTCCTGCGTAGAGCCGAGTGACGTTGGAGGCGGAGGGCCCAAGTTCCTAAGAGG

27,795

PARK7

PARK7-201

PARK7-201

TGTCTCAGCCTCCTGAATAGCTGGGATTACAGGTAAGTGGCCGCCAGGCCAGCTAATTTTTGTATTTTTTTTTTTTTTTTTTAGTA
ACAGAGTCGGGAGGACTTATCGACCCTAATGTCCATGACCGGCGGTCCGGGTCGATTAAAAACATAAAAAAAAAAAAAAAAAAATCAT

27,880

PARK7

PARK7-201

PARK7-201

GAGGCGGGGTTTACCATGTTGGTCAGGCTGGTCTTGAAATCCTGACCTCAGGTGATCCACCTGCCTTGGCGTCCCAGAGTGTTG
CTCCGCCCCAAAAGTGGTACAACCAAGTCCGACCAGAACTTTAGGACTGGAGTCCACTAGGTGGACGGAACCGCAGGGTCTCACAAAC

27,965

PARK7

PARK7-201

PARK7-201

GAATTACCGGCATGAGCCACTGCATCCGGCTTCCCATTGCTTTTTCTCTGAAGAGACTTTAAGACTTGGAGTCTGGTTTTAAAAA
CTTAATGGCCGTAAGTGGTACGCTAGGCCGAAGGGTAACGAAAAAGAGACTTCTCTGAAATTCTGAACCTCAGACCAAATTTTTT

28,050

PARK7

PARK7-201

PARK7-201

AATAAAGAAATAAAAAATCAATGCCTTCTGCTGGTTGAACGGGAAGTGTAAAAATCTGAATTCGCTATAGGGTCACAATCCCAGCCT
TTATTTCTTTTATTTTTAGTTACGGAAGACGACCAACTTGCCCTTACATTTTAGACTTAAGCGATATCCCAGTGTTAGGGTCGGA

28,135

PARK7

PARK7-201

PARK7-201

CCAGTTCGCACAGTGCCTTCCTGGTGCTGATGGGGTGCATGTTCTGTCTTCGCCACTAGGTGGAGGCAGTTGGTAACCTTAAACC
GGTCAAGCGTGTACGGAAGGACCACGACTACCCACGTACAAGACAGAAGCGGTGATCCACCTCCGTCAACCATTGGAATTTGG

28,220

PARK7

PARK7-201

PARK7-201

TTTTGCTTCTCGTGGTTAAAAGTCTGACAAGAACCGTAGAACCCTTTAAGCATATTTAACCAGTTTTAAGCCCTGTTTGCGATGTTT
AAAACGAAGAGCACCAATTTTCAGACTGTTCTTGGCATCTTGGAAATTCGTATAAATTGGTCAAATTCGGGACAAACGCTACAAA

28,305

PARK7

PARK7-201

PARK7-201

TAGCCACAAAGATACTGTTTCAGTGAACCATTTACAGTTGTGCCTCGCGTTGTCCCACTCTCAGCTGTGCATCTCACTGTCGCTCT
ATCGGTGTTTCTATGACAAGTCACTTGGTAAATGTCAACACGGAGCGCAACAGGGTGAGAGTCGACACGTAGAGTGACAGCGAGA

28,390

PARK7

PARK7-201

PARK7-201

GGAAGACCTAGCCAGCCAGTTTCTAGGTTAGCATTTGAAATGGTCTTGGCCTGGTTTAACCATCAGTAAATGAGGCCAGATTAT
CCTTCTGGATCGGGTTCGGTCAAAGATCCAATCGTAAACTTTACCAGAACCGGACCAAATTTGGTAGTCATTTACTCCGGTCTAATA

28,475

PARK7

PARK7-201

PARK7-201

GATAAACCTTTTCCCTCAAACCTAGGGATCCTCTTTTTCTCTACAATAGTTAAATTGGAAATTGTTTATGTAATCTATTCAATTA
CTATTTGGAAAAGGGGAGTTTGATCCCTAGGAGAAAAAGAGATGTTATCAATTTAACCTTTAACAAATACATGAGATAAGTAAAT

28,560

PARK7

PARK7-201

PARK7-201

TTTTGGTGGGTGACCTGATTTTTTAAATTTTTTAGATTAGTCAAGCACAGTAGTGAGAAGAGGAGAAAGAGTAGAACAAGGTGTA
AAAACCACCCACTGGACTAAAAAATTTAAAAAATCTAATCAGTTCGTGTCACTCTTCTCCTCTTTCTCATCTTGTTCACAT

28,645

PARK7

PARK7-201

PARK7-201

ACTGCCTGTGAACGATCAATTGAGATAACTCACTGCCTTCGACCAGCAGTGGCTTGGTTTCTAATGACAGTAAGACAAGTTCCCTA
TGACGGACACTTGCTAGTTAACTCTATTGAGTGACGGAAGCTGGTCGTCACCGAACCAAAGATTACTGTCAATTCTGTTCAAGGAT

28,730

PARK7

PARK7-201

PARK7-201

TAGCCATTGTTAATCTCCTTGGAAAAGAAATGAACACTGTGTGGTTTTCAGAAGCTCATTAAATATAGCAGAAGCACTCTGCTTCTG
ATCGGTAACAATTAGAGGAACCTTTTCTTTACTTGTGACACACCAAAGTCTTCGAGTAATTATATCGTCTTCGTGAGACGAAGAC

28,815

PARK7

PARK7-201

PARK7-201

TTTGAAGGGAGGTTTTTCAGATGAATTTTTCTGCGTGTTCATTGAACAGACGTTTTCTAAGCTCCTCCTTAGTGCCCTGGCACTGGG
AAACTTCCCTCCAAAAGTCTACTTAAAAAGACGCACAAGTAAC TTGTCTGCAAAGGATTCGAGGAGGAATCACGGACCGTGACCC

28,900

PARK7

PARK7-201

PARK7-201

AACAGAAGAAGGAAGAAGAGAAAAGCTGTGCCCTCAGGGTGTTCTCAGGTCCGCACTGAGCGGTGGTGACCAGAGCCACCCGCCTG
TTGTCTTCTTCTTCTTCTTTTCGACACGGGAGTCCCAACAAGAGTCCAGGCGTGACTCGCCACCACTGGTCTCGGTGGGCGGAC

28,985

PARK7

PARK7-201

PARK7-201

CCTGCGTGGCCGGTGATCAGGATAGAGCAGGAGTTACAGAGGAGCTTTGTCACTTCCCCCTCCGCTAAATCTGTTCTGTGGCC
GGACGCACCCGGCCACGTAGTCCTATCTCGTCCTCAAGTGCTCCTCGAAACAGTGAAGGGGGGAGGCGATTTAGACAAGACACCCGG

29,070

PARK7

PARK7-201

PARK7-201

CCACATCACTGAGTGGTGTCAACCATCATCCAGTCACCTGGGACAGGCAGCTGGGAGTCATCCTTGAAGCCTCCTCACCTAGGCCT
GGTGTAGTGACTCACACAGTGGTAGTAGGTCAGTGGACCCTGTCCGTGACCCCTCAGTAGGAACCTTCGGAGGAGTGGATCCGGA

29,155

PARK7

PARK7-201

PARK7-201

TCATTGCAAACCTCCATTTCTTCTGGATCACTGTCACCAGCCTAGTGCAGGCACCACCAGCTTCTACCCAGAGAGCAGGTTCCCTT
AGTAACGTTTGGAGGTAAAGGAGACCTAGTGACAGTGGTCGGATCACGTCCGTGGTGGTTCGAAGATGGGTCTCTCGTCCAAGGAA

29,240

PARK7

PARK7-201

PARK7-201

TCCATCTCCTTCTGGTCCCAGCCAGTCTCTGTGCGAAGGCCAGACCCGACAGAGGGCTCCAGGCCCGTGACATGGAGTTCAGCGT
AGGTAGAGGAAGACCAGGGTCGGGTCAGAGACACGCTTCCGGTCTGGCGTCTCCCGAGGTCCGGGGCACTGTACCTCAAGTCGCA

29,325

PARK7

PARK7-201

PARK7-201

GACCTTCAGGTGCTGGAGAGAGTTGGCAAGGGCTTTCCATGGGGAAGTGGCTATGCCCTGCTTTGCACTCTGGACAGTTAGCTTT
CTGGAAGTCCACGACCTCTCTCAACCGTCCCGAAAAGGTACCCCTTGACCGATACGGGACGAAACGTGAGACCTGTCAATCGAAA

29,410

PARK7

PARK7-201

PARK7-201

TGGGTGCTGGGCATGGATCGAAGGGGCGCACAGCCGGAAGGGAGAGCTGTAATCATGCAGAGATCCTTCCCTTTAAAGCAGGGG
ACCCACGACCCGTACCTAGCTTCCCGCGTGTGCGCCTTCCCTCTCGACATTAGTACGTCTCTAGGAAGGGGAAATTTTCGTCCCC

29,495

PARK7

PARK7-201

PARK7-201

ACAGGCGAGAAAGGAGATCGAGTCAAGAATGGTGTGGTGCCTTTGACCTCACACTTCAGGGGTGCCTCCTGTGTGCCATGGAT
TGTCCGCTCTTTCTCTAGCTCAGTTCTTACCACAAACCACGGAACTGGAGTGTGAAGTCCCCACGGAGGACACACGGTACCTA

29,580

PARK7

PARK7-201

PARK7-201

ATCATTGGCCAGACAGGGACTGATGAAGACCCAGCCTTTTTAAAGAGTAAACAATAAACAAGGAAATGAAATGTTTCATAGATTGT
TAGTAACCGGTCTGTCCCTGACTACTTCTGGGTCGGAAAAATTTCTCATTTGTTATTTGTTCTTTACTTTACAAGTATCTAACA

29,665

PARK7

PARK7-201

PARK7-201

GATAGATTGTATCAATGCTGCGAGGGCAGTAAATAGAATGCGGTGATAGAGTCAATAGAGGTACCTAATTTGGGGAGGTGGGGGT
CTATCTAACATAGTTACGACGCTCCCGTCATTTATCTTACGCCACTATCTCAGTTATCTCCATGGATTAAACCCCTCCACCCCA

29,750

PARK7

PARK7-201

PARK7-201

GGTCACAGATACCCTCTCTGAGGGGTTTTTGTGGATGCTGAACTGAAGGAGCAAGGAACTGGAAAGAGCTGGTCTCTGGGTGGA
CCAGTGTCTATGGGAGAGACTCCCCAAAAACAACACTACGACTTTGACTTCCTCGTTCCTTGACCTTTCTCGACCAGAGACCCACCT

29,835

PARK7

PARK7-201

PARK7-201

GGGAGCAGCCCTTGAGCTCTTCCTGGAGCAGGAGAGAACGTGTTGTATACAGTAAGGGGAAGCTCCAGGTGGGAGAGTGATAGGGA
CCCTCGTCGGGAACTCGAGAAGGACCTCGTCCTCTCTTGCACAACATATGTCATTCCCTTCGAGGTCCACCCTCTCACTATCCCT

29,920

PARK7

PARK7-201

PARK7-201

TGGGTGTGGGGAGGGAGGTTAGGCTCTGTGTGCAGTGGAGAGGCTGGTACTACCTGCTGTGGAGGGGCAGAGCTCAGGGCATCC
ACCCACACCCCTCCCTCCAATCCGAGACACACGTCACCTCTCCGACCACTGATGGACGACACCTCCCCGTCTCGAGTCCCGTAGG

30,005

PARK7

PARK7-201

PARK7-201

ATGCTTAAGAGTCCCAGTTTTGGTATTATATTTGCCAAGAAATAGCCAACCGGCGGGCCTGGAGGTGCGGGGATGCGGAAGGAAA
TACGAATTCTCAGGGTCAAACCATAATATAAACGGTTCTTTATCGGTTGGCCGCCCGGACCTCCACGCCCTACGCCTTCCTTT

30,090

PARK7

PARK7-201

PARK7-201

PCR Forward

ATGCATACCCGCCTCCATTACGTTG

GTAGTCCTTGAGAGGGAATGTGGTTTCTACCTGCACACGCACACTCACATGCATACCCGCCTCCATTACGTTGTGCTGTGGTTGT
CATCAGGAACTCTCCCTTACACCAAAGATGGACGTGTGCGTGTGAGTGTACGTATGGGCGGAGGTAATGCAACACGACACCAACA

30,175

PARK7

PARK7-201

PARK7-201

TTTTGAGGCATCAGAGGGTGTGCGTGCCGCCACATGTTGATTGGGGTGGCTTCTGCGTTCAGCGCTGCCGCATCCCTTACCCTT
AAAACCTCCGTAGTCTCCACACGCACGGCGGTGTACAAC TAACCCACCGAAGACGCAAGTCGCGACGGCGTAGGGAAAGTGGGAA

30,260

PARK7

PARK7-201

PARK7-201

CCCCGGCACTTCAGAATTGACACTTGAGCTTTGTTGTAATAAGTGATGTGAGTAAGTGTCAATTCACCGACATCTCCCCAACACT
GGGGCCGTGAAGTCTTAAGTGTGAACTCGAAACAACATTTATCACTACACTCATTGACAGTAAGTGGCTGTAGAGGGGGTTGTGA

30,345

PARK7

PARK7-201

PARK7-201

TAAAGTCTTAGCAGCTGCATTTAACTCACGCATATTTGTTTCATTCTAACAGTGGTTTCTGTCACCCCTTTGCTCTGCACAGTTTT
ATTTCAGAATCGTCGACGTAAATTGAGTGCGTATAAACAAAGTAAGATTGTACCAAAGACAGTGGGAAACGAGACGTGTCAAAA

30,430

PARK7

PARK7-201

PARK7-201

AAAAATACCTTTGTAGGGGGCTTCTAAGAGCTTGGAGTGCCTAGTAAATGTTTTTGAATGGTTAGCTACAGTGTGGGTTTATAT
TTTTTATGGAAACATCCCCGAAGATTCTCGAACCTCACGGATCATTACAAAACTTACCAATCGATGTCACAACCCAAATATA

30,515

PARK7

PARK7-201

PARK7-201

GCTGTAATAGTGAATTTAATTGGTAAGTAATCGTCTTTCTCGTCACATAGCCCATTAGGATGTCACCTTTTCTGTTTCTACTTTG
CGACATTATCACTTAAATTAACCATTATTAGCAGAAAAGAGCAGTGTATCGGGTAATCCTACAGTGGAAAAGACAAAGATGAAAC

30,600

PARK7

PARK7-201

PARK7-201

Donor Template SNV -> Rev

CTACTCTGAGAATCGTGTGGAAAAAGACGGCCTGATTCTTACAAGCCGGGGGCTGGGACCAGCTTCGAGTT

CAGGTCATTACACCTACTCTGAGAATCGTGTGGAAAAAGACGGCCTGATTCTTACAAGCCGGGGGCTGGGACCAGCTTCGAGTT
GTCCAGTAATGTGGATGAGACTCTTAGCACACCTTTTTCTGCCGGACTAAGAATGTTTCGGCCCCGGACCCTGGTTCGAAGCTCAA

30,685

PARK7

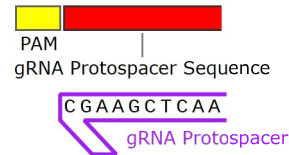
PARK7-201

G H Y T Y S E N R V E K D G L I L T S R G P G T S F E F

ENSE00001941967

PARK7-201

Donor Template SNV -> Rev



Donor Template SNV -> Rev

TGCGCTTGCAATTGTTGAAGCCCTGAAT

TGCGCTTGCAATTGTTGAAGCCCTGAATGGCAAGGAGGTGGC6GCTCAAGTGAAGGCTCCACTTGTCTTAAAGACTAGAGCAGC
ACGCGAACGTTAAACAACCTTCGGGACTTACCGTTCCTCCACCGCCGAGTTCACCTCCGAGGTGAACAAGAATTTCTGATCTCGTTCG

30,770

PARK7

PARK7-201

165 170 175 180 185 190
A L A I V E A L N G K E V A A Q V K A P L V L K D

ENSE00001941967

PARK7-201

Donor Template SNV -> Rev

gRNA Protospacer Sequence

SNV

ACGCGGACGT

gRNA Protospacer

GAACTGCGACGATCACTTAGAGAAAACAGGCCGTTAGGAATCCATTCTCACTGTGTTTCGCTCTAAACAAAACAGTGGTAGGTTAAT
CTTGACGCTGCTAGTGAATCTCTTTGTCCGGCAATCCTTAGGTAAAGAGTGACACAAGCGAGATTTGTTTTGTCAACCATCCAATTA

30,855

PARK7

PARK7-201

GTCCGGCAATCCTTAGGTAA

Sanger Sequencing Primer

GTGTTTCAGAAAGTCGCTGTCCTTACTACTTTTTGCGGAAGTATGGAAGTCACAACCTACACAGAGATTTCTCAGCCTACAAATTGTGT
CACAAGTCTTCAGCGACAGGAATGATGAAAAACGCCTTCATACCTTCAGTGTTGATGTGTCTCTAAAGAGTCGGATGTTTAAACACA

30,940

PARK7

PARK7-201

CTATACATTTCTAAGCCTTGTTTTGCAGAATAAACAGGGCATTAGCAAACCTACTGATTGTTTCTTGTTTTGTCTCTCATTTCTTT
GATATGTAAAGATTCGGAACAAACGTCTTATTTGTCCCGTAAATCGTTTGATGACTAACAAAGAACAAAACAGAGAGTAAAGAAA

31,025

PARK7

PARK7-201

TGTGAAATTAATTCGGTATCACCTTCATTTGCAGCTCTTAACTGTCCATATGGCACTGAAATAAAAGAACAGTGACCACATTTT
ACACTTTAATTTAAGGCATAGTGGAAGTAAACGTTCGAGAATTGACAGGTATACCGTGACTTTATTTTCTTGTCACTGGTGTAAAA

31,110

PARK7

PARK7-201

ACACAGCAAGGAGGAAAGGCATACAAACAGAAATTTAAGAGGCTTGTGATTTTCTCTGCTTATTAGCTGTGTGTTTTTAATGTGCT
TGTGTCGTTCTCCTTTCCGTATGTTTGTCTTAAATTCCTCCGAACACTAAAAGAGACGAATAATCGACACACAAAAATTACACGA

31,195

PARK7

PARK7-201

CTCCGAACACTAAAAGAGACGAATA

PCR Reverse

ATTAATAAATACCAATGAGG
TAATTTTTTATGGTTACTCC

3'

31,215

5'

PARK7

PARK7-201

Feature	Location	Size	±	Type
✓ PARK7	1 .. 31,215	31,215 bp	■ →	gene
/note	= gene ENSG00000116288 Protein coding			
PARK7-208	1 .. 30,762	30,762 bp	■ →	prim_transcript
/note	= primary transcript ENST00000493373			
PARK7-205	7373 .. 16,758	9386 bp	■ →	prim_transcript
/note	= primary transcript ENST00000460192 Retained intron			
PARK7-209	7402 .. 31,215	23,814 bp	■ →	prim_transcript
/note	= primary transcript ENST00000493678			
PARK7-204	7411 .. 30,991	23,581 bp	■ →	prim_transcript
/note	= primary transcript ENST00000377493			
✓ PARK7-201	7421 .. 31,215	23,795 bp	■ →	prim_transcript
/note	= primary transcript ENST00000338639			
PARK7-206	7458 .. 17,231	9774 bp	■ →	prim_transcript
/note	= primary transcript ENST00000465354 Retained intron			
PARK7-203	7604 .. 30,960	23,357 bp	■ →	prim_transcript
/note	= primary transcript ENST00000377491			
PARK7-202	7679 .. 30,821	23,143 bp	■ →	prim_transcript
/note	= primary transcript ENST00000377488			
PARK7-210	8477 .. 17,667	9191 bp	■ →	prim_transcript
/note	= primary transcript ENST00000497113 protein_coding_CDS_not_defined			
✓ PARK7-201	8496 .. 30,764	22,269 bp	■ →	CDS
▶ 6 segments = 570 bp				
/note	= coding sequence ENSP00000340278			
/translation	= MASKRALVILAKGAEEMETVIPVDVMRRAG,,IKVTVAGLAGKDPVQCSRDVVICPDASLEDAKKE,,GPYDVVVLPGGNLGAQNLSE,,SAAV KEILKEQENRKGLIAAICA,,GPTALLAHEIGFGSKVTTHPLAKDKMMNG,,GHYTYSENRVKDGILTSRPGTSTFEFALAIVEALNGKEVAA QVQKARLVLKD* 199 amino acids = 19.9 kDa			
PARK7-202	8496 .. 30,764	22,269 bp	■ →	CDS
▶ 6 segments = 570 bp				
/note	= coding sequence ENSP00000366708			
/translation	= MASKRALVILAKGAEEMETVIPVDVMRRAG,,IKVTVAGLAGKDPVQCSRDVVICPDASLEDAKKE,,GPYDVVVLPGGNLGAQNLSE,,SAAV KEILKEQENRKGLIAAICA,,GPTALLAHEIGFGSKVTTHPLAKDKMMNG,,GHYTYSENRVKDGILTSRPGTSTFEFALAIVEALNGKEVAA QVQKARLVLKD* 199 amino acids = 19.9 kDa			
PARK7-203	8496 .. 30,764	22,269 bp	■ →	CDS
▶ 6 segments = 570 bp				
/note	= coding sequence ENSP00000366711			
/translation	= MASKRALVILAKGAEEMETVIPVDVMRRAG,,IKVTVAGLAGKDPVQCSRDVVICPDASLEDAKKE,,SAAVKEILKEQENRKGLIAAICA,,GP TALLAHEIGFGSKVTTHPLAKDKMMNG,,GHYTYSENRVKDGILTSRPGTSTFEFALAIVEALNGKEVAAQVKAPLVLKD* 169 amino acids = 17.9 kDa			
PARK7-204	8496 .. 30,764	22,269 bp	■ →	CDS
▶ 5 segments = 510 bp				
/note	= coding sequence ENSP00000466242			
/translation	= MASKRALVILAKGAEEMETVIPVDVMRRAG,,IKVTVAGLAGKDPVQCSRDVVICPDASLEDAKKE,,SAAVKEILKEQENRKGLIAAICA,,GP TALLAHEIGFGSKVTTHPLAKDKMMNG,,GHYTYSENRVKDGILTSRPGTSTFEFALAIVEALNGKEVAAQVKAPLVLKD* 169 amino acids = 17.9 kDa			
PARK7-209	8496 .. 30,764	22,269 bp	■ →	CDS
▶ 6 segments = 570 bp				
/note	= coding sequence ENSP00000418770			
/translation	= MASKRALVILAKGAEEMETVIPVDVMRRAG,,IKVTVAGLAGKDPVQCSRDVVICPDASLEDAKKE,,GPYDVVVLPGGNLGAQNLSE,,SAAV KEILKEQENRKGLIAAICA,,GPTALLAHEIGFGSKVTTHPLAKDKMMNG,,GHYTYSENRVKDGILTSRPGTSTFEFALAIVEALNGKEVAA QVQKARLVLKD* 199 amino acids = 19.9 kDa			

Feature	Location	Size	Color	Symbol	Type
PARK7-208	8496 .. 30,762	22,267 bp	■	→	CDS
▶ 6 segments = 568 bp					
/note	= coding sequence ENSP00000465404				
/translation	= MASKRALVILAKGAEEMETVIPVDVMRRAG,,IKVTVAGLAGKDPVQCSRDVVICPDASLEDAKKE,,GPYDVVVLPGGNLGAQNLSE,,SAAVKEILKEQENRKGLIAAICA,,GPTALLAHEIGFGSKVTTHPLAKDKMMNG,,GHYTYSENRV EKDGLILTSRGPPTSFEFALAIVEALNGKEVAAQVKA PLV LKD*				
	199 amino acids = 19.9 kDa				
PARK7-207	11,061 .. 30,992	19,932 bp	■	→	prim_transcript
/note	= primary transcript ENST00000469225				
PARK7-207	11,061 .. 30,764	19,704 bp	■	→	CDS
▶ 5 segments = 483 bp					
/note	= coding sequence ENSP00000466756				
/translation	= GKDPVQCSRDVVICPDASLEDAKKE,,GPYDVVVLPGGNLGAQNLSE,,SAAVKEILKEQENRKGLIAAICA,,GPTALLAHEIGFGSKVTTHPLAKDKMMNG,,GCHLFCFYFAGHYTYSENRV EKDGLILTSRGPPTSFEFALAIVEALNGKEVAAQVKA PLV LKD*				
	160 amino acids = 17.0 kDa				
Y_RNA	28,591 .. 28,693	103 bp	■	↔	gene
/note	= gene ENSG00000200344 misc_RNA				
Y_RNA.140-201	28,591 .. 28,693	103 bp	■	↔	prim_transcript
/note	= primary transcript ENST00000363474 misc_RNA				
✓ Donor Template SNV -> Rev	30,614 .. 30,713	100 bp	■	⊢	misc_feature
✓ PAM	30,673 .. 30,675	3 bp	■	⊢	misc_feature
✓ gRNA Protospacer Sequence	30,676 .. 30,695	20 bp	■	⊢	misc_feature
✓ SNV	30,691 .. 30,691	1 bp	■	⊢	misc_feature
/note	= SNV = C REV = T				

Primer	Length	Binding Sites	Tm	Date Added
✓ PCR Forward	25-mer	30,139 .. 30,163	64°C	Mar 7, 2023
/sequence	= ATGCATACCCGCCTCCATTACGTTG 52% GC / 7553.0 Da			
✓ Donor Template SNV -> Rev	100-mer	30,614 .. 30,713	79°C	Mar 7, 2023
/sequence	= CTACTCTGAGAATCGTGTGGAAAAAGACGGCCTGATTCTTACAAGCCGGGGGCCTGGGACCAGCTTCGAGTTTGCGCTTGCAATTGT 52% GC / 30945.1 Da			
✓ gRNA Protospacer	20-mer	30,676 .. 30,695	58°C	Mar 7, 2023
/sequence	= TGCAGGCGCAAACCTCGAAGC 60% GC / 6136.0 Da			
✓ Sanger Sequencing Primer	20-mer	30,796 .. 30,815	57°C	Mar 7, 2023
/sequence	= AATGGATTCCTAACGGCCTG 50% GC / 6117.0 Da			
✓ PCR Reverse	25-mer	31,148 .. 31,172	58°C	Mar 7, 2023
/sequence	= ATAAGCAGAGAAAATCACAAAGCCTC 40% GC / 7661.1 Da			