1. **Bowtie**

# reads processed: 16909578

# reads with at least one reported alignment: 3701580 (21.89%)

# reads that failed to align: 10393645 (61.47%)

# reads with alignments suppressed due to -m: 2814353 (16.64%)

Reported 3701580 alignments to 1 output stream(s)

# reads processed: 13207998

# reads with at least one reported alignment: 2242053 (16.97%)

# reads that failed to align: 6383045 (48.33%)

# reads with alignments suppressed due to -m: 4582900 (34.70%)

Reported 2242053 alignments to 1 output stream(s)

# reads processed: 10965945

# reads with at least one reported alignment: 1040580 (9.49%)

# reads that failed to align: 4566924 (41.65%)

# reads with alignments suppressed due to -m: 5358441 (48.86%)

Reported 1040580 alignments to 1 output stream(s)

Number of lines in part 0: 3701580

Number of lines in part 1: 2242053

Number of lines in part 2: 1040580

Number of lines in total: 6984213

# reads processed: 16909578

# reads with at least one reported alignment: 3701580 (21.89%)

# reads that failed to align: 10393645 (61.47%)

# reads with alignments suppressed due to -m: 2814353 (16.64%)

Reported 3701580 alignments to 1 output stream(s)

1. **AlignParse**

Number of lines in part 0: 3701580

Number of lines in part 1: 2242053

Number of lines in part 2: 1040580

Number of lines in total: 6984213

Length of collatedKeyToReadNum before output length files: 919705

Number of lengths in lengthToKeys: 18

Number of linesWritten to file 24: 856

====== Last line written ======

==============================================

Number of linesWritten to file 25: 1862

====== Last line written ======

==============================================

Number of linesWritten to file 26: 5001

====== Last line written ======

==============================================

Number of linesWritten to file 27: 13159

====== Last line written ======

==============================================

Number of linesWritten to file 20: 170

====== Last line written ======

==============================================

Number of linesWritten to file 21: 208

====== Last line written ======

==============================================

Number of linesWritten to file 22: 271

====== Last line written ======

==============================================

Number of linesWritten to file 23: 412

====== Last line written ======

==============================================

Number of linesWritten to file 33: 35479

====== Last line written ======

==============================================

Number of linesWritten to file 32: 30340

====== Last line written ======

==============================================

Number of linesWritten to file 31: 29772

====== Last line written ======

==============================================

Number of linesWritten to file 30: 30072

====== Last line written ======

==============================================

Number of linesWritten to file 28: 22794

====== Last line written ======

==============================================

Number of linesWritten to file 29: 29053

====== Last line written ======

==============================================

Number of linesWritten to file 34: 66645

====== Last line written ======

==============================================

Number of linesWritten to file 19: 126

====== Last line written ======

==============================================

Number of linesWritten to file 36: 653352

====== Last line written ======

==============================================

Number of linesWritten to file 18: 133

====== Last line written ======

==============================================

1. FA FILES

======= EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.18.fa ============

Number of linesWritten: 266

======= EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.19.fa ============

Number of linesWritten: 252

======= EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.20.fa ============

Number of linesWritten: 340

======= EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.21.fa ============

Number of linesWritten: 416

======= EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.22.fa ============

Number of linesWritten: 542

======= EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.23.fa ============

Number of linesWritten: 824

======= EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.24.fa ============

Number of linesWritten: 1712

======= EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.25.fa ============

Number of linesWritten: 3724

======= EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.26.fa ============

Number of linesWritten: 10002

======= EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.27.fa ============

Number of linesWritten: 26318

======= EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.28.fa ============

======= needs splitting ==============

Number of splitBLfiles made: 2

======= EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.28.fa ============

Number of outlinesWritten: 45588

======= EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.29.fa ============

======= needs splitting ==============

Number of splitBLfiles made: 2

======= EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.29.fa ============

Number of outlinesWritten: 58106

======= EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.30.fa ============

======= needs splitting ==============

Number of splitBLfiles made: 2

======= EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.30.fa ============

Number of outlinesWritten: 60144

======= EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.31.fa ============

======= needs splitting ==============

Number of splitBLfiles made: 2

======= EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.31.fa ============

Number of outlinesWritten: 59544

======= EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.32.fa ============

======= needs splitting ==============

Number of splitBLfiles made: 2

======= EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.32.fa ============

Number of outlinesWritten: 60680

======= EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.33.fa ============

======= needs splitting ==============

Number of splitBLfiles made: 2

======= EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.33.fa ============

Number of outlinesWritten: 70958

======= EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.34.fa ============

======= needs splitting ==============

Number of splitBLfiles made: 4

======= EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.34.fa ============

Number of outlinesWritten: 133290

======= EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.36.fa ============

======= needs splitting ==============

Number of splitBLfiles made: 33

======= EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.36.fa ============

Number of outlinesWritten: 1306704

======== TTAGGC-s\_6\_1\_seed29\_genome.18.bl ==========

Number of lines in infile: 134

Wed Oct 24 13:51:37 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 13:52:33 2018

Number of loci in rRNA collection: 1769

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 133

Number of genomic hits loaded: 133

Number of hits in genomicHits collection: 133

========================================

Number of rRNA hits in collection: 7

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 13:52:33 2018

Number of reads from rRNA hits: 163.0

Number of rRNA keys: 7

Number of lines written: 133

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.19.bl ==========

Number of lines in infile: 127

Wed Oct 24 13:52:33 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 13:53:30 2018

Number of loci in rRNA collection: 1769

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 126

Number of genomic hits loaded: 126

Number of hits in genomicHits collection: 126

========================================

Number of rRNA hits in collection: 5

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 13:53:30 2018

Number of reads from rRNA hits: 205.0

Number of rRNA keys: 5

Number of lines written: 126

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.20.bl ==========

Number of lines in infile: 171

Wed Oct 24 13:53:30 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 13:54:26 2018

Number of loci in rRNA collection: 1769

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 170

Number of genomic hits loaded: 170

Number of hits in genomicHits collection: 170

========================================

Number of rRNA hits in collection: 10

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 13:54:26 2018

Number of reads from rRNA hits: 624.0

Number of rRNA keys: 10

Number of lines written: 170

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.21.bl ==========

Number of lines in infile: 209

Wed Oct 24 13:54:26 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 13:55:22 2018

Number of loci in rRNA collection: 1769

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 208

Number of genomic hits loaded: 208

Number of hits in genomicHits collection: 208

========================================

Number of rRNA hits in collection: 9

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 13:55:22 2018

Number of reads from rRNA hits: 865.0

Number of rRNA keys: 9

Number of lines written: 208

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.22.bl ==========

Number of lines in infile: 272

Wed Oct 24 13:55:22 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 13:56:19 2018

Number of loci in rRNA collection: 1769

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 271

Number of genomic hits loaded: 271

Number of hits in genomicHits collection: 271

========================================

Number of rRNA hits in collection: 23

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 13:56:19 2018

Number of reads from rRNA hits: 349.0

Number of rRNA keys: 23

Number of lines written: 271

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.23.bl ==========

Number of lines in infile: 413

Wed Oct 24 13:56:19 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 13:57:17 2018

Number of loci in rRNA collection: 1769

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 412

Number of genomic hits loaded: 412

Number of hits in genomicHits collection: 412

========================================

Number of rRNA hits in collection: 35

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 13:57:17 2018

Number of reads from rRNA hits: 419.0

Number of rRNA keys: 35

Number of lines written: 412

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.24.bl ==========

Number of lines in infile: 857

Wed Oct 24 13:57:17 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 13:58:15 2018

Number of loci in rRNA collection: 1769

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 856

Number of genomic hits loaded: 856

Number of hits in genomicHits collection: 856

========================================

Number of rRNA hits in collection: 91

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 13:58:15 2018

Number of reads from rRNA hits: 466.0

Number of rRNA keys: 91

Number of lines written: 856

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.25.bl ==========

Number of lines in infile: 1863

Wed Oct 24 13:58:15 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 13:59:11 2018

Number of loci in rRNA collection: 1769

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 1862

Number of genomic hits loaded: 1862

Number of hits in genomicHits collection: 1862

========================================

Number of rRNA hits in collection: 178

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 13:59:11 2018

Number of reads from rRNA hits: 509.0

Number of rRNA keys: 178

Number of lines written: 1862

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.26.bl ==========

Number of lines in infile: 5002

Wed Oct 24 13:59:11 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:00:07 2018

Number of loci in rRNA collection: 1769

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 5001

Number of genomic hits loaded: 5001

Number of hits in genomicHits collection: 5001

========================================

Number of rRNA hits in collection: 529

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:00:07 2018

Number of reads from rRNA hits: 1916.0

Number of rRNA keys: 529

Number of lines written: 5001

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.27.bl ==========

Number of lines in infile: 13160

Wed Oct 24 14:00:07 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:01:07 2018

Number of loci in rRNA collection: 1769

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 13159

Number of genomic hits loaded: 13159

Number of hits in genomicHits collection: 13159

========================================

Number of rRNA hits in collection: 1102

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:01:07 2018

Number of reads from rRNA hits: 7300.0

Number of rRNA keys: 1102

Number of lines written: 13159

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.28.bl ==========

Number of lines in infile: 22795

Wed Oct 24 14:01:08 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:02:03 2018

Number of loci in rRNA collection: 1769

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 22794

Number of genomic hits loaded: 22794

Number of hits in genomicHits collection: 22794

========================================

Number of rRNA hits in collection: 1681

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:02:04 2018

Number of reads from rRNA hits: 15281.0

Number of rRNA keys: 1681

Number of lines written: 22794

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.29.bl ==========

Number of lines in infile: 29054

Wed Oct 24 14:02:04 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:03:01 2018

Number of loci in rRNA collection: 1769

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 29053

Number of genomic hits loaded: 29053

Number of hits in genomicHits collection: 29053

========================================

Number of rRNA hits in collection: 1937

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:03:02 2018

Number of reads from rRNA hits: 19418.0

Number of rRNA keys: 1937

Number of lines written: 29053

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.30.bl ==========

Number of lines in infile: 30073

Wed Oct 24 14:03:03 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:03:58 2018

Number of loci in rRNA collection: 1769

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 30072

Number of genomic hits loaded: 30072

Number of hits in genomicHits collection: 30072

========================================

Number of rRNA hits in collection: 1988

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:03:59 2018

Number of reads from rRNA hits: 22864.0

Number of rRNA keys: 1988

Number of lines written: 30072

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.31.bl ==========

Number of lines in infile: 29773

Wed Oct 24 14:04:00 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:04:57 2018

Number of loci in rRNA collection: 1769

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 29772

Number of genomic hits loaded: 29772

Number of hits in genomicHits collection: 29772

========================================

Number of rRNA hits in collection: 1987

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:04:58 2018

Number of reads from rRNA hits: 20469.0

Number of rRNA keys: 1987

Number of lines written: 29772

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.32.bl ==========

Number of lines in infile: 30341

Wed Oct 24 14:04:59 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:05:56 2018

Number of loci in rRNA collection: 1769

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 30340

Number of genomic hits loaded: 30340

Number of hits in genomicHits collection: 30340

========================================

Number of rRNA hits in collection: 2029

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:05:56 2018

Number of reads from rRNA hits: 21336.0

Number of rRNA keys: 2029

Number of lines written: 30340

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.33.bl ==========

Number of lines in infile: 35480

Wed Oct 24 14:05:57 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:06:54 2018

Number of loci in rRNA collection: 1769

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 35479

Number of genomic hits loaded: 35479

Number of hits in genomicHits collection: 35479

========================================

Number of rRNA hits in collection: 2426

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:06:55 2018

Number of reads from rRNA hits: 30162.0

Number of rRNA keys: 2426

Number of lines written: 35479

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.34.bl ==========

Number of lines in infile: 66646

Wed Oct 24 14:06:57 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:07:52 2018

Number of loci in rRNA collection: 1769

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 66645

Number of genomic hits loaded: 66645

Number of hits in genomicHits collection: 66645

========================================

Number of rRNA hits in collection: 3081

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:07:54 2018

Number of reads from rRNA hits: 69890.0

Number of rRNA keys: 3081

Number of lines written: 66645

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.36.bl ==========

Number of lines in infile: 653353

Wed Oct 24 14:07:58 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:08:55 2018

Number of loci in rRNA collection: 1769

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 653352

Number of genomic hits loaded: 653352

Number of hits in genomicHits collection: 653352

========================================

Number of rRNA hits in collection: 7385

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:09:19 2018

Number of reads from rRNA hits: 897072.0

Number of rRNA keys: 7385

Number of lines written: 653352

============= last line written ================

1. OLL tRNA

======== TTAGGC-s\_6\_1\_seed29\_genome.18.oll ==========

Number of lines in infile: 134

Wed Oct 24 14:18:21 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:19:17 2018

Number of loci in tRNA collection: 2002

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 133

Number of genomic hits loaded: 133

Number of hits in genomicHits collection: 133

========================================

Number of tRNA hits in collection: 19

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:19:17 2018

Number of reads from tRNA hits: 37.0

Number of tRNA keys: 19

Number of lines written: 133

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.19.oll ==========

Number of lines in infile: 127

Wed Oct 24 14:19:17 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:20:13 2018

Number of loci in tRNA collection: 2002

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 126

Number of genomic hits loaded: 126

Number of hits in genomicHits collection: 126

========================================

Number of tRNA hits in collection: 11

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:20:13 2018

Number of reads from tRNA hits: 80.0

Number of tRNA keys: 11

Number of lines written: 126

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.20.oll ==========

Number of lines in infile: 171

Wed Oct 24 14:20:13 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:21:09 2018

Number of loci in tRNA collection: 2002

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 170

Number of genomic hits loaded: 170

Number of hits in genomicHits collection: 170

========================================

Number of tRNA hits in collection: 13

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:21:09 2018

Number of reads from tRNA hits: 23.0

Number of tRNA keys: 13

Number of lines written: 170

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.21.oll ==========

Number of lines in infile: 209

Wed Oct 24 14:21:09 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:22:06 2018

Number of loci in tRNA collection: 2002

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 208

Number of genomic hits loaded: 208

Number of hits in genomicHits collection: 208

========================================

Number of tRNA hits in collection: 24

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:22:06 2018

Number of reads from tRNA hits: 230.0

Number of tRNA keys: 24

Number of lines written: 208

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.22.oll ==========

Number of lines in infile: 272

Wed Oct 24 14:22:06 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:23:05 2018

Number of loci in tRNA collection: 2002

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 271

Number of genomic hits loaded: 271

Number of hits in genomicHits collection: 271

========================================

Number of tRNA hits in collection: 40

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:23:05 2018

Number of reads from tRNA hits: 161.0

Number of tRNA keys: 40

Number of lines written: 271

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.23.oll ==========

Number of lines in infile: 413

Wed Oct 24 14:23:05 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:24:02 2018

Number of loci in tRNA collection: 2002

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 412

Number of genomic hits loaded: 412

Number of hits in genomicHits collection: 412

========================================

Number of tRNA hits in collection: 44

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:24:02 2018

Number of reads from tRNA hits: 112.0

Number of tRNA keys: 44

Number of lines written: 412

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.24.oll ==========

Number of lines in infile: 857

Wed Oct 24 14:24:02 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:24:58 2018

Number of loci in tRNA collection: 2002

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 856

Number of genomic hits loaded: 856

Number of hits in genomicHits collection: 856

========================================

Number of tRNA hits in collection: 78

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:24:58 2018

Number of reads from tRNA hits: 252.0

Number of tRNA keys: 78

Number of lines written: 856

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.25.oll ==========

Number of lines in infile: 1863

Wed Oct 24 14:24:58 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:25:56 2018

Number of loci in tRNA collection: 2002

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 1862

Number of genomic hits loaded: 1862

Number of hits in genomicHits collection: 1862

========================================

Number of tRNA hits in collection: 177

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:25:56 2018

Number of reads from tRNA hits: 686.0

Number of tRNA keys: 177

Number of lines written: 1862

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.26.oll ==========

Number of lines in infile: 5002

Wed Oct 24 14:25:56 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:26:54 2018

Number of loci in tRNA collection: 2002

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 5001

Number of genomic hits loaded: 5001

Number of hits in genomicHits collection: 5001

========================================

Number of tRNA hits in collection: 373

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:26:54 2018

Number of reads from tRNA hits: 2333.0

Number of tRNA keys: 373

Number of lines written: 5001

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.27.oll ==========

Number of lines in infile: 13160

Wed Oct 24 14:26:54 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:27:52 2018

Number of loci in tRNA collection: 2002

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 13159

Number of genomic hits loaded: 13159

Number of hits in genomicHits collection: 13159

========================================

Number of tRNA hits in collection: 769

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:27:52 2018

Number of reads from tRNA hits: 8583.0

Number of tRNA keys: 769

Number of lines written: 13159

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.28.oll ==========

Number of lines in infile: 22795

Wed Oct 24 14:27:53 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:28:49 2018

Number of loci in tRNA collection: 2002

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 22794

Number of genomic hits loaded: 22794

Number of hits in genomicHits collection: 22794

========================================

Number of tRNA hits in collection: 1208

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:28:50 2018

Number of reads from tRNA hits: 22776.0

Number of tRNA keys: 1208

Number of lines written: 22794

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.29.oll ==========

Number of lines in infile: 29054

Wed Oct 24 14:28:50 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:29:47 2018

Number of loci in tRNA collection: 2002

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 29053

Number of genomic hits loaded: 29053

Number of hits in genomicHits collection: 29053

========================================

Number of tRNA hits in collection: 1367

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:29:48 2018

Number of reads from tRNA hits: 95661.0

Number of tRNA keys: 1367

Number of lines written: 29053

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.30.oll ==========

Number of lines in infile: 30073

Wed Oct 24 14:29:49 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:30:45 2018

Number of loci in tRNA collection: 2002

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 30072

Number of genomic hits loaded: 30072

Number of hits in genomicHits collection: 30072

========================================

Number of tRNA hits in collection: 1378

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:30:46 2018

Number of reads from tRNA hits: 116695.0

Number of tRNA keys: 1378

Number of lines written: 30072

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.31.oll ==========

Number of lines in infile: 29773

Wed Oct 24 14:30:47 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:31:43 2018

Number of loci in tRNA collection: 2002

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 29772

Number of genomic hits loaded: 29772

Number of hits in genomicHits collection: 29772

========================================

Number of tRNA hits in collection: 1217

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:31:44 2018

Number of reads from tRNA hits: 26995.0

Number of tRNA keys: 1217

Number of lines written: 29772

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.32.oll ==========

Number of lines in infile: 30341

Wed Oct 24 14:31:45 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:32:41 2018

Number of loci in tRNA collection: 2002

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 30340

Number of genomic hits loaded: 30340

Number of hits in genomicHits collection: 30340

========================================

Number of tRNA hits in collection: 1177

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:32:42 2018

Number of reads from tRNA hits: 21310.0

Number of tRNA keys: 1177

Number of lines written: 30340

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.33.oll ==========

Number of lines in infile: 35480

Wed Oct 24 14:32:43 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:33:39 2018

Number of loci in tRNA collection: 2002

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 35479

Number of genomic hits loaded: 35479

Number of hits in genomicHits collection: 35479

========================================

Number of tRNA hits in collection: 1293

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:33:40 2018

Number of reads from tRNA hits: 23943.0

Number of tRNA keys: 1293

Number of lines written: 35479

============= last line written ================

======== TTAGGC-s\_6\_1\_seed29\_genome.34.oll ==========

Number of lines in infile: 66646

Wed Oct 24 14:33:41 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:34:38 2018

Number of loci in tRNA collection: 2002

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 66645

Number of genomic hits loaded: 66645

Number of hits in genomicHits collection: 66645

========================================

Number of tRNA hits in collection: 1791

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:34:40 2018

Number of reads from tRNA hits: 33053.0

Number of tRNA keys: 1791

Number of lines written: 66645

============= last line written ================

Traceback (most recent call last):

File "otherRNALabel\_human.py", line 19, in <module>

infile = open(infileString)

IOError: [Errno 2] No such file or directory: 'EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/TTAGGC-s\_6\_1\_seed29\_genome.35.oll'

======== TTAGGC-s\_6\_1\_seed29\_genome.36.oll ==========

Number of lines in infile: 653353

Wed Oct 24 14:34:42 2018

/home/hguo/Documents/annotations/hg19/Rmsk/rmsk.txt

Wed Oct 24 14:35:37 2018

Number of loci in tRNA collection: 2002

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 653352

Number of genomic hits loaded: 653352

Number of hits in genomicHits collection: 653352

========================================

Number of tRNA hits in collection: 5985

========================================

===== Finished cycling through hitsCollection ========= Wed Oct 24 14:36:02 2018

Number of reads from tRNA hits: 327665.0

Number of tRNA keys: 5985

Number of lines written: 653352

============= last line written ================

Number of entries in ORFseqs: 66852

Length of genesDict: 19210

Length of filtered gene list: 19210

Number of genes in chromToGenes: 19210

Number of entries in chromToGenes: 24

=========== chr1 =================== Wed Oct 24 15:07:26 2018

Dataset is from: EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/

======== Loading hits from chr1 only ...... =========

======== EXCLUDING rRNA and other RNA! ===================

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 86138

Number of such hits in list for 18-36 nt: 86138

=============== AFTER FILTERING 18xA ====================================

Number of hits in filtered list for 18-36 nt: 86135

Number of hits in collection for 18-36 nt: 86135

Number of uniq hits that map to chr1: 86135

Number of hits in dictA: 65379

Number of hits in dictB: 184

Number of hits in dictX: 8515

Number of hits in dictY: 1322

Number of hits in dictC, chr1: 65195

Number of hits in txHitsCollection: 65195

Number of hits in dictZ, chr1: 7193

Number of hits in intronHitsCollection: 7193

Number of unambiguously intronic hits, chr1: 6931

Number of unambiguously exonic hits, chr1: 64933

Number of genes in geneToIntronHits: 998

Total number of intron hits by geneToIntronHits: 6931

Total intron readNum: 9752.0

Number of genes in geneToExonHits: 1276

Total number of exon hits by geneToExonHits: 64933

Total exon readNum: 82039.0

=========== chr2 =================== Wed Oct 24 15:07:39 2018

Dataset is from: EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/

======== Loading hits from chr2 only ...... =========

======== EXCLUDING rRNA and other RNA! ===================

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 75052

Number of such hits in list for 18-36 nt: 75052

=============== AFTER FILTERING 18xA ====================================

Number of hits in filtered list for 18-36 nt: 75052

Number of hits in collection for 18-36 nt: 75052

Number of uniq hits that map to chr2: 75052

Number of hits in dictA: 56166

Number of hits in dictB: 258

Number of hits in dictX: 6381

Number of hits in dictY: 68

Number of hits in dictC, chr1: 55908

Number of hits in txHitsCollection: 55908

Number of hits in dictZ, chr1: 6313

Number of hits in intronHitsCollection: 6313

Number of unambiguously intronic hits, chr1: 6248

Number of unambiguously exonic hits, chr1: 55843

Number of genes in geneToIntronHits: 738

Total number of intron hits by geneToIntronHits: 6248

Total intron readNum: 9954.0

Number of genes in geneToExonHits: 862

Total number of exon hits by geneToExonHits: 55843

Total exon readNum: 74114.0

=========== chr3 =================== Wed Oct 24 15:07:53 2018

Dataset is from: EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/

======== Loading hits from chr3 only ...... =========

======== EXCLUDING rRNA and other RNA! ===================

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 35402

Number of such hits in list for 18-36 nt: 35402

=============== AFTER FILTERING 18xA ====================================

Number of hits in filtered list for 18-36 nt: 35400

Number of hits in collection for 18-36 nt: 35400

Number of uniq hits that map to chr3: 35400

Number of hits in dictA: 27339

Number of hits in dictB: 190

Number of hits in dictX: 3578

Number of hits in dictY: 41

Number of hits in dictC, chr1: 27149

Number of hits in txHitsCollection: 27149

Number of hits in dictZ, chr1: 3537

Number of hits in intronHitsCollection: 3537

Number of unambiguously intronic hits, chr1: 3367

Number of unambiguously exonic hits, chr1: 26979

Number of genes in geneToIntronHits: 545

Total number of intron hits by geneToIntronHits: 3367

Total intron readNum: 4691.0

Number of genes in geneToExonHits: 680

Total number of exon hits by geneToExonHits: 26979

Total exon readNum: 32346.0

=========== chr4 =================== Wed Oct 24 15:08:03 2018

Dataset is from: EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/

======== Loading hits from chr4 only ...... =========

======== EXCLUDING rRNA and other RNA! ===================

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 21184

Number of such hits in list for 18-36 nt: 21184

=============== AFTER FILTERING 18xA ====================================

Number of hits in filtered list for 18-36 nt: 21183

Number of hits in collection for 18-36 nt: 21183

Number of uniq hits that map to chr4: 21183

Number of hits in dictA: 14761

Number of hits in dictB: 31

Number of hits in dictX: 2618

Number of hits in dictY: 1

Number of hits in dictC, chr1: 14730

Number of hits in txHitsCollection: 14730

Number of hits in dictZ, chr1: 2617

Number of hits in intronHitsCollection: 2617

Number of unambiguously intronic hits, chr1: 2608

Number of unambiguously exonic hits, chr1: 14721

Number of genes in geneToIntronHits: 352

Total number of intron hits by geneToIntronHits: 2608

Total intron readNum: 30815.0

Number of genes in geneToExonHits: 433

Total number of exon hits by geneToExonHits: 14721

Total exon readNum: 17415.0

=========== chr5 =================== Wed Oct 24 15:08:13 2018

Dataset is from: EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/

======== Loading hits from chr5 only ...... =========

======== EXCLUDING rRNA and other RNA! ===================

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 32056

Number of such hits in list for 18-36 nt: 32056

=============== AFTER FILTERING 18xA ====================================

Number of hits in filtered list for 18-36 nt: 32055

Number of hits in collection for 18-36 nt: 32055

Number of uniq hits that map to chr5: 32055

Number of hits in dictA: 23386

Number of hits in dictB: 214

Number of hits in dictX: 3135

Number of hits in dictY: 265

Number of hits in dictC, chr1: 23172

Number of hits in txHitsCollection: 23172

Number of hits in dictZ, chr1: 2870

Number of hits in intronHitsCollection: 2870

Number of unambiguously intronic hits, chr1: 2715

Number of unambiguously exonic hits, chr1: 23017

Number of genes in geneToIntronHits: 433

Total number of intron hits by geneToIntronHits: 2715

Total intron readNum: 3847.0

Number of genes in geneToExonHits: 576

Total number of exon hits by geneToExonHits: 23017

Total exon readNum: 29408.0

=========== chr6 =================== Wed Oct 24 15:08:23 2018

Dataset is from: EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/

======== Loading hits from chr6 only ...... =========

======== EXCLUDING rRNA and other RNA! ===================

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 43950

Number of such hits in list for 18-36 nt: 43950

=============== AFTER FILTERING 18xA ====================================

Number of hits in filtered list for 18-36 nt: 43948

Number of hits in collection for 18-36 nt: 43948

Number of uniq hits that map to chr6: 43948

Number of hits in dictA: 34403

Number of hits in dictB: 283

Number of hits in dictX: 3361

Number of hits in dictY: 30

Number of hits in dictC, chr1: 34120

Number of hits in txHitsCollection: 34120

Number of hits in dictZ, chr1: 3331

Number of hits in intronHitsCollection: 3331

Number of unambiguously intronic hits, chr1: 3207

Number of unambiguously exonic hits, chr1: 33996

Number of genes in geneToIntronHits: 505

Total number of intron hits by geneToIntronHits: 3207

Total intron readNum: 5593.0

Number of genes in geneToExonHits: 673

Total number of exon hits by geneToExonHits: 33996

Total exon readNum: 51116.0

=========== chr7 =================== Wed Oct 24 15:08:33 2018

Dataset is from: EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/

======== Loading hits from chr7 only ...... =========

======== EXCLUDING rRNA and other RNA! ===================

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 47263

Number of such hits in list for 18-36 nt: 47263

=============== AFTER FILTERING 18xA ====================================

Number of hits in filtered list for 18-36 nt: 47263

Number of hits in collection for 18-36 nt: 47263

Number of uniq hits that map to chr7: 47263

Number of hits in dictA: 36491

Number of hits in dictB: 535

Number of hits in dictX: 4759

Number of hits in dictY: 60

Number of hits in dictC, chr1: 35956

Number of hits in txHitsCollection: 35956

Number of hits in dictZ, chr1: 4699

Number of hits in intronHitsCollection: 4699

Number of unambiguously intronic hits, chr1: 4576

Number of unambiguously exonic hits, chr1: 35833

Number of genes in geneToIntronHits: 500

Total number of intron hits by geneToIntronHits: 4576

Total intron readNum: 10622.0

Number of genes in geneToExonHits: 584

Total number of exon hits by geneToExonHits: 35833

Total exon readNum: 49528.0

=========== chr8 =================== Wed Oct 24 15:08:45 2018

Dataset is from: EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/

======== Loading hits from chr8 only ...... =========

======== EXCLUDING rRNA and other RNA! ===================

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 28524

Number of such hits in list for 18-36 nt: 28524

=============== AFTER FILTERING 18xA ====================================

Number of hits in filtered list for 18-36 nt: 28524

Number of hits in collection for 18-36 nt: 28524

Number of uniq hits that map to chr8: 28524

Number of hits in dictA: 20415

Number of hits in dictB: 38

Number of hits in dictX: 2349

Number of hits in dictY: 18

Number of hits in dictC, chr1: 20377

Number of hits in txHitsCollection: 20377

Number of hits in dictZ, chr1: 2331

Number of hits in intronHitsCollection: 2331

Number of unambiguously intronic hits, chr1: 2246

Number of unambiguously exonic hits, chr1: 20292

Number of genes in geneToIntronHits: 361

Total number of intron hits by geneToIntronHits: 2246

Total intron readNum: 3041.0

Number of genes in geneToExonHits: 425

Total number of exon hits by geneToExonHits: 20292

Total exon readNum: 24946.0

=========== chr9 =================== Wed Oct 24 15:08:54 2018

Dataset is from: EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/

======== Loading hits from chr9 only ...... =========

======== EXCLUDING rRNA and other RNA! ===================

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 36555

Number of such hits in list for 18-36 nt: 36555

=============== AFTER FILTERING 18xA ====================================

Number of hits in filtered list for 18-36 nt: 36554

Number of hits in collection for 18-36 nt: 36554

Number of uniq hits that map to chr9: 36554

Number of hits in dictA: 28435

Number of hits in dictB: 241

Number of hits in dictX: 2908

Number of hits in dictY: 22

Number of hits in dictC, chr1: 28194

Number of hits in txHitsCollection: 28194

Number of hits in dictZ, chr1: 2886

Number of hits in intronHitsCollection: 2886

Number of unambiguously intronic hits, chr1: 2811

Number of unambiguously exonic hits, chr1: 28119

Number of genes in geneToIntronHits: 419

Total number of intron hits by geneToIntronHits: 2811

Total intron readNum: 4395.0

Number of genes in geneToExonHits: 508

Total number of exon hits by geneToExonHits: 28119

Total exon readNum: 35471.0

=========== chr10 =================== Wed Oct 24 15:09:05 2018

Dataset is from: EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/

======== Loading hits from chr10 only ...... =========

======== EXCLUDING rRNA and other RNA! ===================

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 28578

Number of such hits in list for 18-36 nt: 28578

=============== AFTER FILTERING 18xA ====================================

Number of hits in filtered list for 18-36 nt: 28577

Number of hits in collection for 18-36 nt: 28577

Number of uniq hits that map to chr10: 28577

Number of hits in dictA: 22092

Number of hits in dictB: 41

Number of hits in dictX: 3274

Number of hits in dictY: 1

Number of hits in dictC, chr1: 22051

Number of hits in txHitsCollection: 22051

Number of hits in dictZ, chr1: 3273

Number of hits in intronHitsCollection: 3273

Number of unambiguously intronic hits, chr1: 3171

Number of unambiguously exonic hits, chr1: 21949

Number of genes in geneToIntronHits: 410

Total number of intron hits by geneToIntronHits: 3171

Total intron readNum: 4552.0

Number of genes in geneToExonHits: 493

Total number of exon hits by geneToExonHits: 21949

Total exon readNum: 28999.0

=========== chr11 =================== Wed Oct 24 15:09:15 2018

Dataset is from: EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/

======== Loading hits from chr11 only ...... =========

======== EXCLUDING rRNA and other RNA! ===================

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 43355

Number of such hits in list for 18-36 nt: 43355

=============== AFTER FILTERING 18xA ====================================

Number of hits in filtered list for 18-36 nt: 43355

Number of hits in collection for 18-36 nt: 43355

Number of uniq hits that map to chr11: 43355

Number of hits in dictA: 33639

Number of hits in dictB: 88

Number of hits in dictX: 4995

Number of hits in dictY: 16

Number of hits in dictC, chr1: 33551

Number of hits in txHitsCollection: 33551

Number of hits in dictZ, chr1: 4979

Number of hits in intronHitsCollection: 4979

Number of unambiguously intronic hits, chr1: 4730

Number of unambiguously exonic hits, chr1: 33302

Number of genes in geneToIntronHits: 548

Total number of intron hits by geneToIntronHits: 4730

Total intron readNum: 69728.0

Number of genes in geneToExonHits: 718

Total number of exon hits by geneToExonHits: 33302

Total exon readNum: 41518.0

=========== chr12 =================== Wed Oct 24 15:09:26 2018

Dataset is from: EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/

======== Loading hits from chr12 only ...... =========

======== EXCLUDING rRNA and other RNA! ===================

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 37656

Number of such hits in list for 18-36 nt: 37656

=============== AFTER FILTERING 18xA ====================================

Number of hits in filtered list for 18-36 nt: 37655

Number of hits in collection for 18-36 nt: 37655

Number of uniq hits that map to chr12: 37655

Number of hits in dictA: 27972

Number of hits in dictB: 50

Number of hits in dictX: 3052

Number of hits in dictY: 35

Number of hits in dictC, chr1: 27922

Number of hits in txHitsCollection: 27922

Number of hits in dictZ, chr1: 3017

Number of hits in intronHitsCollection: 3017

Number of unambiguously intronic hits, chr1: 2901

Number of unambiguously exonic hits, chr1: 27806

Number of genes in geneToIntronHits: 523

Total number of intron hits by geneToIntronHits: 2901

Total intron readNum: 4607.0

Number of genes in geneToExonHits: 658

Total number of exon hits by geneToExonHits: 27806

Total exon readNum: 35147.0

=========== chr13 =================== Wed Oct 24 15:09:36 2018

Dataset is from: EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/

======== Loading hits from chr13 only ...... =========

======== EXCLUDING rRNA and other RNA! ===================

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 10648

Number of such hits in list for 18-36 nt: 10648

=============== AFTER FILTERING 18xA ====================================

Number of hits in filtered list for 18-36 nt: 10647

Number of hits in collection for 18-36 nt: 10647

Number of uniq hits that map to chr13: 10647

Number of hits in dictA: 7854

Number of hits in dictB: 23

Number of hits in dictX: 1323

Number of hits in dictY: 11

Number of hits in dictC, chr1: 7831

Number of hits in txHitsCollection: 7831

Number of hits in dictZ, chr1: 1312

Number of hits in intronHitsCollection: 1312

Number of unambiguously intronic hits, chr1: 1308

Number of unambiguously exonic hits, chr1: 7827

Number of genes in geneToIntronHits: 180

Total number of intron hits by geneToIntronHits: 1308

Total intron readNum: 2478.0

Number of genes in geneToExonHits: 206

Total number of exon hits by geneToExonHits: 7827

Total exon readNum: 9911.0

=========== chr14 =================== Wed Oct 24 15:09:45 2018

Dataset is from: EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/

======== Loading hits from chr14 only ...... =========

======== EXCLUDING rRNA and other RNA! ===================

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 22435

Number of such hits in list for 18-36 nt: 22435

=============== AFTER FILTERING 18xA ====================================

Number of hits in filtered list for 18-36 nt: 22435

Number of hits in collection for 18-36 nt: 22435

Number of uniq hits that map to chr14: 22435

Number of hits in dictA: 16585

Number of hits in dictB: 124

Number of hits in dictX: 2023

Number of hits in dictY: 9

Number of hits in dictC, chr1: 16461

Number of hits in txHitsCollection: 16461

Number of hits in dictZ, chr1: 2014

Number of hits in intronHitsCollection: 2014

Number of unambiguously intronic hits, chr1: 1882

Number of unambiguously exonic hits, chr1: 16329

Number of genes in geneToIntronHits: 330

Total number of intron hits by geneToIntronHits: 1882

Total intron readNum: 2263.0

Number of genes in geneToExonHits: 404

Total number of exon hits by geneToExonHits: 16329

Total exon readNum: 19516.0

=========== chr15 =================== Wed Oct 24 15:09:54 2018

Dataset is from: EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/

======== Loading hits from chr15 only ...... =========

======== EXCLUDING rRNA and other RNA! ===================

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 18725

Number of such hits in list for 18-36 nt: 18725

=============== AFTER FILTERING 18xA ====================================

Number of hits in filtered list for 18-36 nt: 18725

Number of hits in collection for 18-36 nt: 18725

Number of uniq hits that map to chr15: 18725

Number of hits in dictA: 14229

Number of hits in dictB: 147

Number of hits in dictX: 1619

Number of hits in dictY: 9

Number of hits in dictC, chr1: 14082

Number of hits in txHitsCollection: 14082

Number of hits in dictZ, chr1: 1610

Number of hits in intronHitsCollection: 1610

Number of unambiguously intronic hits, chr1: 1542

Number of unambiguously exonic hits, chr1: 14014

Number of genes in geneToIntronHits: 308

Total number of intron hits by geneToIntronHits: 1542

Total intron readNum: 1966.0

Number of genes in geneToExonHits: 394

Total number of exon hits by geneToExonHits: 14014

Total exon readNum: 17373.0

=========== chr16 =================== Wed Oct 24 15:10:03 2018

Dataset is from: EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/

======== Loading hits from chr16 only ...... =========

======== EXCLUDING rRNA and other RNA! ===================

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 32706

Number of such hits in list for 18-36 nt: 32706

=============== AFTER FILTERING 18xA ====================================

Number of hits in filtered list for 18-36 nt: 32704

Number of hits in collection for 18-36 nt: 32704

Number of uniq hits that map to chr16: 32704

Number of hits in dictA: 23988

Number of hits in dictB: 123

Number of hits in dictX: 2665

Number of hits in dictY: 15

Number of hits in dictC, chr1: 23865

Number of hits in txHitsCollection: 23865

Number of hits in dictZ, chr1: 2650

Number of hits in intronHitsCollection: 2650

Number of unambiguously intronic hits, chr1: 2612

Number of unambiguously exonic hits, chr1: 23827

Number of genes in geneToIntronHits: 444

Total number of intron hits by geneToIntronHits: 2612

Total intron readNum: 3278.0

Number of genes in geneToExonHits: 562

Total number of exon hits by geneToExonHits: 23827

Total exon readNum: 28925.0

=========== chr17 =================== Wed Oct 24 15:10:13 2018

Dataset is from: EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/

======== Loading hits from chr17 only ...... =========

======== EXCLUDING rRNA and other RNA! ===================

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 58155

Number of such hits in list for 18-36 nt: 58155

=============== AFTER FILTERING 18xA ====================================

Number of hits in filtered list for 18-36 nt: 58154

Number of hits in collection for 18-36 nt: 58154

Number of uniq hits that map to chr17: 58154

Number of hits in dictA: 45642

Number of hits in dictB: 407

Number of hits in dictX: 6193

Number of hits in dictY: 18

Number of hits in dictC, chr1: 45235

Number of hits in txHitsCollection: 45235

Number of hits in dictZ, chr1: 6175

Number of hits in intronHitsCollection: 6175

Number of unambiguously intronic hits, chr1: 6074

Number of unambiguously exonic hits, chr1: 45134

Number of genes in geneToIntronHits: 594

Total number of intron hits by geneToIntronHits: 6074

Total intron readNum: 142815.0

Number of genes in geneToExonHits: 749

Total number of exon hits by geneToExonHits: 45134

Total exon readNum: 59933.0

=========== chr18 =================== Wed Oct 24 15:10:25 2018

Dataset is from: EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/

======== Loading hits from chr18 only ...... =========

======== EXCLUDING rRNA and other RNA! ===================

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 8296

Number of such hits in list for 18-36 nt: 8296

=============== AFTER FILTERING 18xA ====================================

Number of hits in filtered list for 18-36 nt: 8295

Number of hits in collection for 18-36 nt: 8295

Number of uniq hits that map to chr18: 8295

Number of hits in dictA: 5952

Number of hits in dictB: 17

Number of hits in dictX: 929

Number of hits in dictY: 33

Number of hits in dictC, chr1: 5935

Number of hits in txHitsCollection: 5935

Number of hits in dictZ, chr1: 896

Number of hits in intronHitsCollection: 896

Number of unambiguously intronic hits, chr1: 848

Number of unambiguously exonic hits, chr1: 5887

Number of genes in geneToIntronHits: 168

Total number of intron hits by geneToIntronHits: 848

Total intron readNum: 2479.0

Number of genes in geneToExonHits: 178

Total number of exon hits by geneToExonHits: 5887

Total exon readNum: 7009.0

=========== chr19 =================== Wed Oct 24 15:10:33 2018

Dataset is from: EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/

======== Loading hits from chr19 only ...... =========

======== EXCLUDING rRNA and other RNA! ===================

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 69038

Number of such hits in list for 18-36 nt: 69038

=============== AFTER FILTERING 18xA ====================================

Number of hits in filtered list for 18-36 nt: 69037

Number of hits in collection for 18-36 nt: 69037

Number of uniq hits that map to chr19: 69037

Number of hits in dictA: 55427

Number of hits in dictB: 186

Number of hits in dictX: 4860

Number of hits in dictY: 81

Number of hits in dictC, chr1: 55241

Number of hits in txHitsCollection: 55241

Number of hits in dictZ, chr1: 4779

Number of hits in intronHitsCollection: 4779

Number of unambiguously intronic hits, chr1: 4563

Number of unambiguously exonic hits, chr1: 55025

Number of genes in geneToIntronHits: 751

Total number of intron hits by geneToIntronHits: 4563

Total intron readNum: 5465.0

Number of genes in geneToExonHits: 944

Total number of exon hits by geneToExonHits: 55025

Total exon readNum: 77137.0

=========== chr20 =================== Wed Oct 24 15:10:46 2018

Dataset is from: EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/

======== Loading hits from chr20 only ...... =========

======== EXCLUDING rRNA and other RNA! ===================

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 23332

Number of such hits in list for 18-36 nt: 23332

=============== AFTER FILTERING 18xA ====================================

Number of hits in filtered list for 18-36 nt: 23332

Number of hits in collection for 18-36 nt: 23332

Number of uniq hits that map to chr20: 23332

Number of hits in dictA: 18545

Number of hits in dictB: 164

Number of hits in dictX: 2263

Number of hits in dictY: 32

Number of hits in dictC, chr1: 18381

Number of hits in txHitsCollection: 18381

Number of hits in dictZ, chr1: 2231

Number of hits in intronHitsCollection: 2231

Number of unambiguously intronic hits, chr1: 2063

Number of unambiguously exonic hits, chr1: 18213

Number of genes in geneToIntronHits: 285

Total number of intron hits by geneToIntronHits: 2063

Total intron readNum: 4000.0

Number of genes in geneToExonHits: 337

Total number of exon hits by geneToExonHits: 18213

Total exon readNum: 22542.0

=========== chr21 =================== Wed Oct 24 15:10:55 2018

Dataset is from: EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/

======== Loading hits from chr21 only ...... =========

======== EXCLUDING rRNA and other RNA! ===================

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 11570

Number of such hits in list for 18-36 nt: 11570

=============== AFTER FILTERING 18xA ====================================

Number of hits in filtered list for 18-36 nt: 11570

Number of hits in collection for 18-36 nt: 11570

Number of uniq hits that map to chr21: 11570

Number of hits in dictA: 5756

Number of hits in dictB: 172

Number of hits in dictX: 615

Number of hits in dictY: 23

Number of hits in dictC, chr1: 5584

Number of hits in txHitsCollection: 5584

Number of hits in dictZ, chr1: 592

Number of hits in intronHitsCollection: 592

Number of unambiguously intronic hits, chr1: 571

Number of unambiguously exonic hits, chr1: 5563

Number of genes in geneToIntronHits: 100

Total number of intron hits by geneToIntronHits: 571

Total intron readNum: 634.0

Number of genes in geneToExonHits: 109

Total number of exon hits by geneToExonHits: 5563

Total exon readNum: 6742.0

=========== chr22 =================== Wed Oct 24 15:11:03 2018

Dataset is from: EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/

======== Loading hits from chr22 only ...... =========

======== EXCLUDING rRNA and other RNA! ===================

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 19480

Number of such hits in list for 18-36 nt: 19480

=============== AFTER FILTERING 18xA ====================================

Number of hits in filtered list for 18-36 nt: 19480

Number of hits in collection for 18-36 nt: 19480

Number of uniq hits that map to chr22: 19480

Number of hits in dictA: 15912

Number of hits in dictB: 132

Number of hits in dictX: 1475

Number of hits in dictY: 57

Number of hits in dictC, chr1: 15780

Number of hits in txHitsCollection: 15780

Number of hits in dictZ, chr1: 1418

Number of hits in intronHitsCollection: 1418

Number of unambiguously intronic hits, chr1: 1349

Number of unambiguously exonic hits, chr1: 15711

Number of genes in geneToIntronHits: 242

Total number of intron hits by geneToIntronHits: 1349

Total intron readNum: 2082.0

Number of genes in geneToExonHits: 297

Total number of exon hits by geneToExonHits: 15711

Total exon readNum: 19890.0

=========== chrX =================== Wed Oct 24 15:11:13 2018

Dataset is from: EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/

======== Loading hits from chrX only ...... =========

======== EXCLUDING rRNA and other RNA! ===================

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 19960

Number of such hits in list for 18-36 nt: 19960

=============== AFTER FILTERING 18xA ====================================

Number of hits in filtered list for 18-36 nt: 19958

Number of hits in collection for 18-36 nt: 19958

Number of uniq hits that map to chrX: 19958

Number of hits in dictA: 14506

Number of hits in dictB: 63

Number of hits in dictX: 1408

Number of hits in dictY: 6

Number of hits in dictC, chr1: 14443

Number of hits in txHitsCollection: 14443

Number of hits in dictZ, chr1: 1402

Number of hits in intronHitsCollection: 1402

Number of unambiguously intronic hits, chr1: 1295

Number of unambiguously exonic hits, chr1: 14336

Number of genes in geneToIntronHits: 275

Total number of intron hits by geneToIntronHits: 1295

Total intron readNum: 3399.0

Number of genes in geneToExonHits: 419

Total number of exon hits by geneToExonHits: 14336

Total exon readNum: 17909.0

=========== chrY =================== Wed Oct 24 15:11:22 2018

Dataset is from: EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/

======== Loading hits from chrY only ...... =========

======== EXCLUDING rRNA and other RNA! ===================

EV71-Data/171010/TTAGGC-s\_6\_1\_seed29\_genome/ 1974

Number of such hits in list for 18-36 nt: 1974

=============== AFTER FILTERING 18xA ====================================

Number of hits in filtered list for 18-36 nt: 1974

Number of hits in collection for 18-36 nt: 1974

Number of uniq hits that map to chrY: 1974

Number of hits in dictA: 6

Number of hits in dictB: 0

Number of hits in dictX: 0

Number of hits in dictY: 0

Number of hits in dictC, chr1: 6

Number of hits in txHitsCollection: 6

Number of hits in dictZ, chr1: 0

Number of hits in intronHitsCollection: 0

Number of unambiguously intronic hits, chr1: 0

Number of unambiguously exonic hits, chr1: 6

Number of genes in geneToIntronHits: 0

Total number of intron hits by geneToIntronHits: 0

Total intron readNum: 0

Number of genes in geneToExonHits: 4

Total number of exon hits by geneToExonHits: 6

Total exon readNum: 6.0

Number of lines written: 19211

Number of genes loaded in accNumToReads: 19210

Total number of mapped reads: 1121396.0

Number of genes loaded in accNumToLengths: 19210

Number of lines written: 19211