

**-N (read mismatches) 2 --read-gap-length 2 --read-edit-dist 2 (tophat parameters I used)**

Total number of raw reads -12780994 after preprocessing

\*\*\*\*\*  
samtools flagstat (2-2-2) accepted\_hits.bam

4295956 in total

0 QC failure

0 duplicates

**4295956 mapped (100.00%)**

4295956 paired in sequencing

2169131 read1

2126825 read2

**3390786 properly paired (78.93%)**

4142080 with itself and mate mapped

**153876 singletons (3.58%)**

0 with mate mapped to a different chr

0 with mate mapped to a different chr (mapQ>=5)

\*\*\*\*\*  
samtools flagstat 3-2-3/accepted\_hits.bam

3425658 in total

0 QC failure

0 duplicates

**3425658 mapped (100.00%)**

3425658 paired in sequencing

1732807 read1

1692851 read2

**2442650 properly paired (71.30%)**

2973016 with itself and mate mapped

452642 singletons (13.21%)

7658 with mate mapped to a different chr

7658 with mate mapped to a different chr (mapQ>=5)

\*\*\*\*\*  
samtools flagstat 4-2-4/accepted\_hits.bam

3633559 in total

0 QC failure

0 duplicates

**3633559 mapped (100.00%)**

3633559 paired in sequencing

1830021 read1

1803538 read2

**2672708 properly paired (73.56%)**

3262468 with itself and mate mapped

371091 singletons (10.21%)

8958 with mate mapped to a different chr

8956 with mate mapped to a different chr (mapQ>=5)

\*\*\*\*\*  
**samtools flagstat 5-2-5/accepted\_hits.bam**

3757346 in total

0 QC failure

0 duplicates

**3757346 mapped (100.00%)**

3757346 paired in sequencing

1887598 read1

1869748 read2

**2812130 properly paired (74.84%)**

3436594 with itself and mate mapped

320752 singletons (8.54%)

9974 with mate mapped to a different chr

9968 with mate mapped to a different chr (mapQ>=5)

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