

BAM File Format

Header: n = 500

Reference 1

Sample 1

```
1: c20, TCGA, 4M; 2: c20,  
GAAT, 4M1D; 3: c20, CCGAT,  
5M; 4: c20, TTGCAC, 6M; 5:  
c20, CCGT, 3M1D1M; ...
```

ADAM File Format

```
chr: c20 * 5, ... ; seq:  
TCGA, GAAT, CCGAT,  
TTGCAC, CCGT, ... ;  
cigar: 4M, 4M1D, 5M,  
6M, 3M1D1M, ... ; ref:  
ref1 * 500; sample:  
sample1 * 500;
```