

Coord	12345678901234	5678901234567890123456789012345
ref	AGCATGTTAGATAA**GATAGCTGTGCTAGTAGGCAGTCAGCGCCAT	
+r001/1	TTAGATAAAGGATA*CTG	
+r002	aaaAGATAA*GGATA	
+r003	gcctaAGCTAA	
+r004	ATAGCT.....TCAGC	
-r003	ttagctTAGGC	
-r001/2	CAGCGGCAT	

**SAM format**

```

@HD VN:1.6 SO:coordinate
@SQ SN:ref LN:45
r001 99 ref 7 30 8M2I4M1D3M = 37 39 TTAGATAAAGGATACTG *
r002 0 ref 9 30 3S6M1P1I4M * 0 0 AAAAGATAAGGATA *
r003 0 ref 9 30 5S6M * 0 0 GCCTAAGCTAA * SA:Z:ref,29,-,6H5M,17,0;
r004 0 ref 16 30 6M14N5M * 0 0 ATAGCTTCAGC *
r003 2064 ref 29 17 6H5M * 0 0 TAGGC * SA:Z:ref,9,+,5S6M,30,1;
r001 147 ref 37 30 9M = 7 -39 CAGCGGCAT * NM:i:1

```

**Padded Alignment**

```

@HD VN:1.6 SO:coordinate
@SQ SN:ref LN:47
ref 516 ref 1 0 14M2D31M * 0 0 AGCATGTTAGATAAGATAGCTGTGCTAGTAGGCAGTCAGCGCCAT *
r001 99 ref 7 30 14M1D3M = 39 41 TTAGATAAAGGATACTG *
* 768 ref 8 30 1M * 0 0 * * CT:Z:.;Warning;Note=Ref wrong?
r002 0 ref 9 30 3S6M1D5M * 0 0 AAAAGATAAGGATA * PT:Z:1;4;+;homopolymer
r003 0 ref 9 30 5H6M * 0 0 AGCTAA * NM:i:1
r004 0 ref 18 30 6M14N5M * 0 0 ATAGCTTCAGC *
r003 2064 ref 31 30 6H5M * 0 0 TAGGC * NM:i:0
r001 147 ref 39 30 9M = 7 -41 CAGCGGCAT * NM:i:1

```