W	A T
S	G C
Y	C T
R	A G
M	A C
K	G T
B	T G C
V	A G C
H	A T C
D	A T G
N	A T G C

```
                 -14   -10    -5    +1
T7          AATTAATACGACTCACTATAGGGAGA
T3             AATTAACCCTCACTAAAGGGAGA
K11            AATTAGGGCACACTATAGGGAAC
SP6            ATTTAGGKGACACTATAGAAGRG

All            HWWTHVVNSWCACTAWHRRRRRV
```

```
T7 tcattgtctttATTAATACaACTCACTATAaGGAGAgacaacttaaagagacttaaaa   1   OL      365   443
   cgtaacgccaAATcAATACGACTCACTATAGaGgGAcaaactcaaggtcatTcgcaag  15   1.1a   5808  5886
   accttcttccggTTAATACGACTCACTATAGGagaAccttaaggtttaactTtaagac  15   1.1b   5883  5961
   gaaggactggAAgTAATACGACTCAgTATAGGGAcAatgcttaaggtcgctctctagg  16   1.3    6369  6447
   tatagttaactggTAATACGACTCACTAaAGGagGtacacaccatgatgtacttaatg  19   1.5    7738  7816
   agatggtcacgcTTAATACGACTCACTAaAGGagacactatatgtttcgacTtcatta  20   1.6    7855  7933
   tgtagcaccgAAgTAATACGACTCACTATtaGGgaAgactccctctgagaaaccaaac  23   2.5    9067  9145
   gaccgtggatAATTAATtgaACTCACTAaAGGGAGAccacagcggtttcccTttgttc  28   3.8   11140 11218
   tgtccgactgAgacAATcCGACTCACTAaAGaGAGAgattattgagaacggTaagttc  32   4c    12631 12709
   gagagtcccattcTAATACGACTCACTAaAGGagacacaccatgttcaaacTgattaa  33   4.3   13301 13379
   gccttcatgaAtactATtCGACTCACTATAGGagatattaccatgcgtgaccctaaag  35   4.7   13875 13953
   aaggtccctaAATTAATACGACTCACTATAGGGAGAtaggggcctttacgaTtattac  46   6.5   18505 18583
   acagccgggaAtTTAATACGACTCACTATAGGGAGAcctcatctttgaaatgagcgat  55   9     21825 21903
   tagacttcgaAATTAATACGACTCACTATAGGGAGAccacaacggtttcccTctagaa  57   10    22864 22942
   ggtggctcgaAATTAATACGACTCACTATAGGGAGAacaatacgactacgggagggtt  68   13    27234 27312
   ggagcgtaggAAaTAATACGACTCACTATAGGGAGAggcgaaataatcttcTccctgt  86   17    34526 34604
   agacacgataAATTAATACGACTCACTATAGGGAGAggagggacgaaaggtTactata  98   OR    39189 39267
```

```
T3 atccaacgttgtcTATTtACCCTCACTAAAGGGAATAAGGTGGATACTTAAA   pt3prmb
   caaggctctcTAcAATTAACCCTCACTAAAGGGAAGAGGGAGCCTTTATGAT   pt3polp
   caaggctctcTAcAATTAACCCTCACTAAAGGGAAGAGGGAGCCTTTATGAT   pt3prmd
   atcaatgagtTTgcATTAACCCTCACTAAAGGGAGAGAGGGGACTTAAACGT   pt3prmh
   agaagtgaaagccTAATtACCCTCACTAAAGGGAACAACCCAACCTATCAAC   pt3prmc
   gactccagttTcTAATTAACCCTCACTAAAGGGAGAGACCATAGATGCCTAC   pt3prme
   ctcaacgttcAccTAATtACCCTCACTAAAGGGAGACCTCATCTTTGAAATG   pt3prmf
   cctccctgcggTgAATTAACCCTCACTAAAGGGAGACACTAATAGATACGAG   pt3prmg
   aacaagcactTAgcATTAACCCTCACTAAcGGGAGACTACTTAAGGTCT      t3p105
   cgaacggacaTAcAGTTAACCCTCACTAAcGGGAGAGTTAAACTTAAGGTCA   t3p11
   gaaacactggAAgTAATAACCCTCACTAAcAGGAGAATCCTTAAGGTCA      pt3prma
   tcttcgttccgggcATTAACCCTCACTAAcAGGAGACACACACCATGTGGCT   t3p15
   ggagcgtaagAAATAATAcgaCTCACTATAGGGAGAGGCGAAATAATCTTCT   PT3RE ?
```

```
K11
```

```
SP6 tctttaattgccTATTTAGGTGACACTATAGAAGGGAGGTAGTCCTCCCTAACCTA   SP6RNAPolA
    tcaaggacttggTAATTAGGGGACACTATAGAAGGAGGCCGAGGAATAACAGGAAG   SP6RNAPolB
    atctgtgtctcTTATTTAGGGGACACTATAGAAGAGAGAATTTTAATCGGCGA  TAG   SP6RNAPolC
```

```
??          ATATGCAGCTTTCAAATCACTCATAAGGGGTAGCCAG                PGAXX      Group II RNA Coliphag
      GAAACGCGGGTTTTACCCCGCACTATTAAGTCATTATTAGATTTTTTCGTA        MYT4G39    T4 Gene 39
         ATTTATTGGGTTTGGAGTCCCTAATGGGTCC                         bp13attp/uo phi13/phi42
        GCGCCGCCTCTTTTCATCTCACTACCACAACGAGCGAATTAACCCATCG        LAMLTPR    lambda late promo regn
```

Resources http://virus.molsci.org/t7/doc/t7genome.html