FIG. 1A

```
                 :   10    :   20    :   30    :   40    :   50
Pt49_1      AGAAAGAAGAGGTTCGAGAAACAGCTCACTCAGATTGATGGCACACTTTC
Pt49_2      CGTAAGAAGAGGTATGAGAAGCAGCTGGCGCAGATCGACGGCACATTATC
Cf49_1      AGGAAGAAAAGATTGGAACAGCAGCTGGCACAAACCGATGGGACATTATC
Cf49_2      CGCAAGAAGAGGTATGAAAAGCAGCTGGCGCAGATCGACGGCACACTATC
Gg49        CGTAAGAAGAGGTATGAGAAGCAGCTTGCACAGATAGATGGCACGTTGTC
Xl49        CGTAAGAAGCGATATGAGAAGCAGCTGGCCCAGATTGATGGCACGCTATC
Dr49        CGAAAGAAGCGATATGAGAAGCAACTCGCTCAGATAGATGGCACTCTTTC
Fr49        AGAAAGAAGCGCTATGAGAAACAGCTCGCCCAGATTGATGGAACACTGTC
Af49        AGGAAGAAGCGTTATGAGAAGCAGTTGACTCAGATCGATGGTACACTGTC
Cs49        CGAAAGAAGCGTTATGAGAAGCAACTGCAGAACGTGGACGGAACGCTGTC
Sp49        AGGAAGAAGAAGTATGAGAAGCAGCTGGCCCAAGTTGATGGAACCTTGAC
Dmag49      CGGAAGAAGAGGTATGAGAAGCAACTCCAGCAGATTGATGGCACTATTTC
Bm49        CGGAAGAAGAGATACGAGAAGCAACTTACTCAAATAGATGGGACCCTCAC
Ap49        CGTAAGAAACGGTATGAACAACAACTAGCGCAAATTGATGGTACCATGTT
Am49        AGAAAGAAACGTTATGAAAAACAATTGCAACAAATTGATGGTACACTCAC
Lm49        AGAAAGAAGCGATATGAAAAACAACTGCAACAGATGGATGGAACTTTATC
Ag49        CGGAAGAAGCGGTACGAGAAACAGCTACAGCAAATCGATGGCACACTTTC
Gm49        AAAAAAAAGCGCTTAGAAAAGCAATTGCAACAAATCGATGGCACTCTGTC
Dm49        AAAAAGAAGCGGCTGGAGAAGCAACTCCAGCAGATCGATGGCACCCTGTC
Lh49        AAGAAAAAGCGGTTTGAAAAACAACTTCAACACATTGATGGAACTCTGTC
Tc49        AGGAAGAAACGCTACGAAAAGCAGCTCCAGCAGATCGATGGCACCCTCAG
Dbal49      AAGAAGAAACGATTGGAAAAGACCCAACTACAAATAGATGGAACMCTTAC
Du49        AAGAAGAAACGATTGGAAAAGACCCAACTACAAATAGATGGAACCCTTAC
Db49        AAGAAGAAACGATTGGAAAAGACTCAACTACAAATAGATGGAACCCTTAC
Dz49        AAGAAGAAACGATTGGAAAAGACCCAACTACAAATAGATGGAACCCTTAC
Dv49        AAGAAGAAACGATTGGAAAAGACCCAACTACAAATAGATGGAACCCTTAC
a.a.        K  K  K  R  L  E  K  T  Q  L  Q  I  D  G  T  L  T
Reynolds 6857643544574688795964366433367578467776877663746 4
Scan seg.      0        2        4        6        8  .
              13%      22%*     43%*     62%*     67%*
                  1        3        5        7        9
                 16%      97%*     39%*     80%*S
```