

>Y-chromosome

>Y1 Primer

TTTTCTTACAATTCAAGGGCA

ATTCAGAAATGATAAGCCAGTGT

>European

TTTAGAACCCCTTGTGCATCTGTTAAT

>Chimp

TTTAGAACACTTTGTGCATCTGTTAAT

>'A03 016 K2 1253 Y 1 2 13JK182 nor 1.abl'

TTTAGAACACTTTGTGCATCTGTTAAT

>'A04 016 K2 1253 Y 1 2 13JK182 nor 1.abl'

TTTAGAACACTTTGTGCATCTGTTAAT

>'B03 015 K2 1253 Y 1 2 13JK182 nor 1.abl'

TTTAGAACACTTTGTGCATCTGTTAAT

>'B04 015 K2 1253 Y 1 2 13JK182 nor 1.abl'

TTTAGAACACTTTGTGCATCTGTTAAT

>'C03 014 K2 1253 Y 1 2 13JK182 nor 1.abl'

TTTAGAACACTTTGTGCATCTGTTAAT

>'C04 014 K2 1253 Y 1 2 13JK182 nor 1.abl'

TTTAGAACACTTTGTGCATCTGTTAAT

>'D03 013 K2 1253 Y 1 2 13JK182 nor 1.abl'

TTTAGAACACTTTGTGCATCTGTTAAT

>'D04 013 K2 1253 Y 1 2 13JK182 nor 1.abl'

TTTAGAACACTTTGTGCATCTGTTAAT

>'E03 012 K2 1253 Y 1 2 13JK182 nor 1.abl'

TTTAGAACACTTTGTGCATCTGTTAAT

>'E04 012 K2 1253 Y 1 2 13JK182 nor 1.abl'

TTTAGAACACTTTGTGCATCTGTTAAT

>'F03 011 K2 1253 Y 1 2 13JK182 nor 1.abl'

TTTAGAACACTTTGTGCATCTGTTAAT

>'F04 011 K2 1253 Y 1 2 13JK182 nor 1.abl'

TTTAGAACACTTTGTGCATCTGTTAAT

>'G03 010 K2 1253 Y 1 2 13JK182 nor 1.abl'

TTTAGAACACTTTGTGCATCTGTTAAT

>'G04 010 K2 1253 Y 1 2 13JK182 nor 1.abl'

TTTAAACACTTTGTGCATCTGTTAAT

>'H03 009 K2 1253 Y 1 2 13JK182 nor 1.abl'

TTTAGAACACTTTGTGCATCTGTTAAT

>Y2 Primer

GTGTCAGTGCAACTTAATCAGA

TGAAAAAGAGAGCTGGTGACTT

>European

TTTAGGACACAAAAGCTACTACATAA

>Chimp

TTTAGGACACAAAAGCAACTACATAA

>'B05 023 K3 1253 Y 2 1 13JK182 nor 1.abl'

TTTAGGACACAAAAGCAACTACATAA

>'B06 023 K3 1253 Y 2 1 13JK182 nor 1.abl'

TTTAGGACACAAAAGCAACTACATAA

>'C05 022 K3 1253 Y 2 1 13JK182 nor 1.abl'

TTTAGGACACAAAAGCAACTACATAA

>'C06 022 K3 1253 Y 2 1 13JK182 nor 1.abl'

TTTAGGACACAAAAGCAACTACATAA

>'D05 021 K3 1253 Y 2 1 13JK182 nor 1.abl'

TTTAGGACACAAAAGCAACTACATAA

>'D06 021 K3 1253 Y 2 1 13JK182 nor 1.abl'

TTTAGGACACAAAAGCAACTACATAA

>'E05 020 K3 1253 Y 2 1 13JK182 nor 1.abl'

TTTAGGACACAAAAGCAACTACATGA

>'E06 020 K3 1253 Y 2 1 13JK182 nor 1.abl'

TTTAGGACACAAAAGCAACTACATAA

>'F06 019 K3 1253 Y 2 1 13JK182 nor 1.abl'

TTTAGGACACAAAAGCAACTACATAA

>'G05 018 K3 1253 Y 2 1 13JK182 nor 1.abl'

TTTAGGACACAAAAGCAACTACATAA

>'G06 018 K3 1253 Y 2 1 13JK182 nor 1.abl'

TTTAGGACACAAAAGCAACTACATAA

>'H06 017 K3 1253 Y 2 1 13JK182 nor 1.abl'

TTTAGGACACAAAAGCAACTACATAA

>'H08 025 K4 1253 Y 2 2 13JK182 nor 1.abl'

TTTAGGACACAAAAGCAACTACATAA

>'A07 032 K4 1253 Y 2 2 13JK182 nor 1.abl'

```

TTTAGGACACAAAAGCAACTACATAA
>'A08 032 K4 1253 Y 2 2 13JK182 nor 1.abl'
TTTAGGACACAAAAGCAACTACATAA
>'B08 031 K4 1253 Y 2 2 13JK182 nor 1.abl'
TTTAGGACACAAAAGCAACTACATAA
>'C07 030 K4 1253 Y 2 2 13JK182 nor 1.abl'
TTTAGGACACAAAAGCAACTACATAA
>'C08 030 K4 1253 Y 2 2 13JK182 nor 1.abl'
TTTAGGACACAAAAGCAACTACATAA
>'D07 029 K4 1253 Y 2 2 13JK182 nor 1.abl'
TTTAGGACACAAAAGGCAACTACATAA
>'D08 029 K4 1253 Y 2 2 13JK182 nor 1.abl'
TTTAGGACACAAAAGCAACTACATAA
>'E07 028 K4 1253 Y 2 2 13JK182 nor 1.abl'
TTTAGGACACAAAAGCAACTACATAA
>'E08 028 K4 1253 Y 2 2 13JK182 nor 1.abl'
TTTAGGACACAAAAGCAACTACATAA
>'F07 027 K4 1253 Y 2 2 13JK182 nor 1.abl'
TTTAGGACACAAAAGCAACTACATAA
>'F08 027 K4 1253 Y 2 2 13JK182 nor 1.abl'
TTTAGGACACAAAAGCAACTACATAA
>'G07 026 K4 1253 Y 2 2 13JK182 nor 1.abl'
TTTAGGACACAAAAGCAACTACATAA
>'G08 026 K4 1253 Y 2 2 13JK182 nor 1.abl'
TTTAGGACACAAAAGCAACTACATAA
>'H07 025 K4 1253 Y 2 2 13JK182 nor 1.abl'
TTTAGGACACAAAAGCAACTACATAA
>Y3 Primer
GGAGCCATGTTCTCAGGACT CCTTGGACCTATCGGAAAA
>African
GGTCACACTGTCCCCATTCTCCAGCAGC
>chimp
GGTCACACTGTCTCCATTCTCCAGCAGC
>'E10 036 K5 1253 Y 3 1 13JK182 nor 1.abl'
GGTCACACTATCTCCATTCTCCAGCAGC
>'F09 035 K5 1253 Y 3 1 13JK182 nor 1.abl'
GGTCACACTATCTCCATTCTCCAGCAGC
>'D09 037 K5 1253 Y 3 1 13JK182 nor 1.abl'
GGTCACACTATCTCCATTCTCCAGCAGC
>'D10 037 K5 1253 Y 3 1 13JK182 nor 1.abl'
GGTCACACTATCTCCATTCTCCAGCAGC
>'E09 036 K5 1253 Y 3 1 13JK182 nor 1.abl'
GGTCACACTATCTCCATTCTCCAGCAGC
>'B10 039 K5 1253 Y 3 1 13JK182 nor 1.abl'
GGTCACACTATCTCCATTCTCCAGCAGC
>'B09 039 K5 1253 Y 3 1 13JK182 nor 1.abl'
GGTCACACTGTTTCCATTCTCCAGCAGC
>'C09 038 K5 1253 Y 3 1 13JK182 nor 1.abl'
GGTCACACTGTTTCCATTCTCCAGCAGC
>'C10 038 K5 1253 Y 3 1 13JK182 nor 1.abl'
GGTCACACTGTTTCCATTCTCCAGCAGC
>'F10 035 K5 1253 Y 3 1 13JK182 nor 1.abl'
GGTCACACTGTTTCCATTCTCCAGCAGC
>'G09 034 K5 1253 Y 3 1 13JK182 nor 1.abl'
GGTCACACTGTTTCCATTCTCCAGCAGC
>'G10 034 K5 1253 Y 3 1 13JK182 nor 1.abl'
GGTCACACTGTTTCCATTCTCCAGCAGC
>'H09 033 K5 1253 Y 3 1 13JK182 nor 1.abl'
GGTCACACTGTTTCCATTCTCCAGCAGC
>'H10 033 K5 1253 Y 3 1 13JK182 nor 1.abl'
GGTCACACTGTTTCCATTCTCCAGCAGC
>'A12 048 K6 1351c Y 3 1 13JK182 nor 1.abl'
GGTCACACTGTCTCCATTCTCCAGCAGC
>'C11 046 K6 1351c Y 3 1 13JK182 nor 1.abl'
GGTCACACTGTCTCCATTCTCCAGCAGC
>'C12 046 K6 1351c Y 3 1 13JK182 nor 1.abl'
GGTCACACTGTCTCCATTCTCCAGCAGC
>'D11 045 K6 1351c Y 3 1 13JK182 nor 1.abl'
GGTCACACTGTCTCCATTCTCCAGCAGC
>'D12 045 K6 1351c Y 3 1 13JK182 nor 1.abl'
GGTCACACTGTCTCCATTCTCCAGCAGC

```

```

>'F12 043 K6 1351c Y 3 1 13JK182 nor 1.abl'
GGTCACACTGTCTCCATTCTCCAGCAGC
>'G11 042 K6 1351c Y 3 1 13JK182 nor 1.abl'
GGTCACACTGTCTCCATTCTCCAGCAGC
>Y4 Primer
ACAGAGCTCATGGAGTCTTATCA CATAGGGACCCAGGAGCTTT
>European
GAGTAGCTGTTAAGGCATG
>chimp
GAGTAGCTGTTCAGGCATG
>'B03 015 K8 1253 Y 4 1 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'B04 015 K8 1253 Y 4 1 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'C03 014 K8 1253 Y 4 1 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'C04 014 K8 1253 Y 4 1 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'D03 013 K8 1253 Y 4 1 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'D04 013 K8 1253 Y 4 1 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'E03 012 K8 1253 Y 4 1 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'E04 012 K8 1253 Y 4 1 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'F03 011 K8 1253 Y 4 1 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'F04 011 K8 1253 Y 4 1 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'G03 010 K8 1253 Y 4 1 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'G04 010 K8 1253 Y 4 1 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'H03 009 K8 1253 Y 4 1 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'A05 024 K9 1253 Y 4 2 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'A06 024 K9 1253 Y 4 2 13JK183 nor 1.abl'
GAGTAGCTGTTCGGGCATG
>'B05 023 K9 1253 Y 4 2 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'B06 023 K9 1253 Y 4 2 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'C05 022 K9 1253 Y 4 2 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'C06 022 K9 1253 Y 4 2 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'D05 021 K9 1253 Y 4 2 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'D06 021 K9 1253 Y 4 2 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'E05 020 K9 1253 Y 4 2 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'E06 020 K9 1253 Y 4 2 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'F05 019 K9 1253 Y 4 2 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'F06 019 K9 1253 Y 4 2 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'G05 018 K9 1253 Y 4 2 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'G06 018 K9 1253 Y 4 2 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'H05 017 K9 1253 Y 4 2 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'H06 017 K9 1253 Y 4 2 13JK183 nor 1.abl'
GAGTAGCTGTTCAGGCATG
>'A03 016 K72 1253 Y 4 4
GAGTAGCTGTTCAGGCATG
>'A04 016 K72 1253 Y 4 4

```

```

GAGTAGCTGTTCAGGCATG
>'B03 015 K72 1253 Y 4 4
GAGTAGCTGTTCAGGCATG
>'B04 015 K72 1253 Y 4 4
GAGTAGCTGTTCAGGCATG
>'C03 014 K72 1253 Y 4 4
GAGTAGCTGTTCAGGCATG
>'C04 014 K72 1253 Y 4 4
GAGTAGCTGTTCAGGCATG
>'D03 013 K72 1253 Y 4 4
GGGTAGCTGTTCAGGCATG
>'D04 013 K72 1253 Y 4 4
GAGTAGCTGTTCAGGCATG
>'E03 012 K72 1253 Y 4 4
GAGTAGCTGTTCAGGCATG
>'E04 012 K72 1253 Y 4 4
GAGTAGCTGTTCAGGCATG
>'F03 011 K72 1253 Y 4 4
GAGTAGCTGTTCAGGCATG
>'F04 011 K72 1253 Y 4 4
GAGTAGCTGTTCAGGCATG
>'G03 010 K72 1253 Y 4 4
GAGTAGCTGTTCAGGCATG
>'G04 010 K72 1253 Y 4 4
GAGTAGCTGTTCAGGCATG
>'H03 009 K72 1253 Y 4 4
GAGTAGCTGTTCAGGCATG
>'H04 009 K72 1253 Y 4 4
GAGTAGCTGTTCAGGCATG
>'H08 025 K10 1351c Y 4 2 13JK183 nor 1.ab1'
GAGTAGCTGTTCAGGCATG
>'A07 032 K10 1351c Y 4 2 13JK183 nor 1.ab1'
GAATAGCTGTTCAGGCATG
>'A08 032 K10 1351c Y 4 2 13JK183 nor 1.ab1'
GAATAGCTGTTCAGGCATG
>'B07 031 K10 1351c Y 4 2 13JK183 nor 1.ab1'
GAGTAGCTGTTCAGGCATG
>'B08 031 K10 1351c Y 4 2 13JK183 nor 1.ab1'
GAGTAGCTGTTCAGGCATG
>'C07 030 K10 1351c Y 4 2 13JK183 nor 1.ab1'
GAGTAGCTGTTCAGGCATG
>'C08 030 K10 1351c Y 4 2 13JK183 nor 1.ab1'
GAGTAGCTGTTCAGGCATG
>'D07 029 K10 1351c Y 4 2 13JK183 nor 1.ab1'
GAGTAGCTGTTCAGGCATG
>'D08 029 K10 1351c Y 4 2 13JK183 nor 1.ab1'
GAGTAGCTGTTCAGGCATG
>'E07 028 K10 1351c Y 4 2 13JK183 nor 1.ab1'
GAGTAGCTGTTCAGGCATG
>'E08 028 K10 1351c Y 4 2 13JK183 nor 1.ab1'
GAGTAGCTGTTCAGGCATG
>'F07 027 K10 1351c Y 4 2 13JK183 nor 1.ab1'
GAGTAGCTGTTCAGGCATG
>'F08 027 K10 1351c Y 4 2 13JK183 nor 1.ab1'
GAGTAGCTGTTCAGGCATG
>'G07 026 K10 1351c Y 4 2 13JK183 nor 1.ab1'
GAGTAGCTGTTCAGGCATG
>'G08 026 K10 1351c Y 4 2 13JK183 nor 1.ab1'
GAGTAGCTGTTCAGGCATG
>'H07 025 K10 1351c Y 4 2 13JK183 nor 1.ab1'
GAGTAGCTGTTCAGGCATG
>'A05 024 K73 1351c Y 4 4
GAGTAGCTGTTCAGGCATG
>'A06 024 K73 1351c Y 4 4
GAGTAGCTGTTCAGGCATG
>'B05 023 K73 1351c Y 4 4
GAGTAGCTGTTCAGGCATG
>'B06 023 K73 1351c Y 4 4
GAGTAGCTGTTCAGGCATG
>'C05 022 K73 1351c Y 4 4
GAGTAGCTGTTCAGGCATG

```

```

>'C06 022 K73 1351c Y 4 4
      GAGTAGCTATTCAGGCATG
>'D05 021 K73 1351c Y 4 4
      GAGTAGCTGTTTCAGGCATG
>'D06 021 K73 1351c Y 4 4
      GAGTAGCTATTCAGGCATG
>'E05 020 K73 1351c Y 4 4
      GAGTAGCTGTTTCAGGCATG
>'E06 020 K73 1351c Y 4 4
      GAGTAGCTATTCAGGCATG
>'F05 019 K73 1351c Y 4 4
      GAGTAGCTATTCAGGCATG
>'F06 019 K73 1351c Y 4 4
      GAGTAGCTGTTTCAGGCATG
>'G05 018 K73 1351c Y 4 4
      GAGTAGCTGTTTCAGGCATG
>'G06 018 K73 1351c Y 4 4
      GAGTAGCTGTTTCAGGCATG
>'H05 017 K73 1351c Y 4 4
      GAGTAGCTATTCAGGCATG
>'H06 017 K73 1351c Y 4 4
      GAGTAGCTGTTTCAGGCATG

>Y5 Primer
TCTTTACATTTCAAATGCATGACT          GGCACACAGTGGTTACTCAA
>African
      TAAAGTATCA
>Chimp
      TAAAG ATCA
>'A09 040 K11 1253 Y 5 1 13JK183 nor 1.ab1'
      TAAAG ATCA
>'B09 039 K11 1253 Y 5 1 13JK183 nor 1.ab1'
      TAAAG ATCA
>'B09 039 K11 1253 Y 5 1 13JK183 nor 1.ab1'
      TAAAG ATCA
>'A09 040 K11 1253 Y 5 1 13JK183 nor 1.ab1'
      TAAAG ATCA
>'B09 039 K11 1253 Y 5 1 13JK183 nor 1.ab1'
      TAAAG ATCA
>'B09 039 K11 1253 Y 5 1 13JK183 nor 1.ab1'
      TAAAG ATCA
>'A02 008 K173 1253 Y 5 1
      TAAAG ATCA
>'B02 007 K173 1253 Y 5 1
      TAAAG ATCA
>'D02 005 K173 1253 Y 5 1
      TAAAG ATCA
>'E02 004 K173 1253 Y 5 1
      TAAAG ATCA
>'G01 002 K173 1253 Y 5 1
      TAAAG ATCA
>'H01 001 K173 1253 Y 5 1
      TAAAG ATCA
>'A09 040 K75 1253 Y 5 4
      TAAAG ATCA
>'A10 040 K75 1253 Y 5 4
      TAAAG ATCA
>'B09 039 K75 1253 Y 5 4
      TAAAG ATCA
>'B10 039 K75 1253 Y 5 4
      TAAAG ATCA
>'C09 038 K75 1253 Y 5 4
      TAAAG ATCA
>'C10 038 K75 1253 Y 5 4
      TAAAG ATCA
>'D09 037 K75 1253 Y 5 4
      TAAAG ATCA
>'D10 037 K75 1253 Y 5 4
      TAAAG ATCA
>'E09 036 K75 1253 Y 5 4
      TAAAG ATCG
>'E10 036 K75 1253 Y 5 4

```

```

TAAAG ATCA
>'F09 035 K75 1253 Y 5 4
TAAAG ATCA
>'F10 035 K75 1253 Y 5 4
TAAAG ATCA
>'G09 034 K75 1253 Y 5 4
TAAAG ATCA
>'G10 034 K75 1253 Y 5 4
TAAAG ATCA
>'H09 033 K75 1253 Y 5 4
TAAAG ATCA
>'H10 033 K75 1253 Y 5 4
TAAAG ATCA
>'A11 048 K12 1351c Y 5 1 13JK183 nor 1.ab1'
TAAAG ATCA
>'A12 048 K12 1351c Y 5 1 13JK183 nor 1.ab1'
TAAAG ATCA
>'B11 047 K12 1351c Y 5 1 13JK183 nor 1.ab1'
TAAAG ATCA
>'D11 045 K12 1351c Y 5 1 13JK183 nor 1.ab1'
TAAAG ATCA
>'E11 044 K12 1351c Y 5 1 13JK183 nor 1.ab1'
TAAAG ATCA
>'G11 042 K12 1351c Y 5 1 13JK183 nor 1.ab1'
TAAAG ATCA
>'H11 041 K12 1351c Y 5 1 13JK183 nor 1.ab1'
TAAAG ATCA
>'A07 032 K74 1351c Y 5 3
TAAAG ATCA
>'A08 032 K74 1351c Y 5 3
TAAAG ATCA
>'B07 031 K74 1351c Y 5 3
TAAAG ATCA
>'B08 031 K74 1351c Y 5 3
TAAAG ATCA
>'C07 030 K74 1351c Y 5 3
TAAAG ATCA
>'C08 030 K74 1351c Y 5 3
TAAAG ATCA
>'D07 029 K74 1351c Y 5 3
TAAAG ATCA
>'D08 029 K74 1351c Y 5 3
TAAAG ATCA
>'E07 028 K74 1351c Y 5 3
TAAAG ATCA
>'E08 028 K74 1351c Y 5 3
TAAAG ATCA
>'F07 027 K74 1351c Y 5 3
TAAAG ATCA
>'F08 027 K74 1351c Y 5 3
TAAAG ATCA
>'G07 026 K74 1351c Y 5 3
TAAAG ATCA
>'G08 026 K74 1351c Y 5 3
TAAAG ATCA
>'H07 025 K74 1351c Y 5 3
TAAAG ATCA
>'H08 025 K74 1351c Y 5 3
TAAAG ATCA
>'A11 048 K76 1351c Y 5 4
TAAAG ATCA
>'A12 048 K76 1351c Y 5 4
TAAAG ATCA
>'B11 047 K76 1351c Y 5 4
TAAAG ATCA
>'C11 046 K76 1351c Y 5 4
TAAAG ATCA
>'C12 046 K76 1351c Y 5 4
TAAAG ATCA
>'D11 045 K76 1351c Y 5 4
TAAAG ATCA

```

```

>'D12 045 K76 1351c Y 5 4
    TAAAG ATCA
>'E11 044 K76 1351c Y 5 4
    TAAAG ATCA
>'E12 044 K76 1351c Y 5 4
    TAAAG ATCA
>'F11 043 K76 1351c Y 5 4
    TAAAG ATCA
>'F12 043 K76 1351c Y 5 4
    TAAAG ATCA
>'G11 042 K76 1351c Y 5 4
    TAAAG ATCA
>'H11 041 K76 1351c Y 5 4
    TAAAG ATCA
>X chromosome

>X4 Primer
TGCAGAATATCACCATATCTTATCA
AAACTCAACAGAAACCAACACC
>Human Reference
    TGAATTCATAGGCTGTAGAGCCAG
>Vindija Neandertal
    TGAATTCATAGGCTGTAGATCCAG
>chimp
    TGAATTCATAGGCTGTAGATCCAG
>'A12 048 K37 Sid 1351c X 4 2
    TGAATTCATAGGCTGTAGATCCNG
>'B12 047 K37 Sid 1351c X 4 2
    TGAATTCATAGGCTGTAGATCCAG
>'C12 046 K37 Sid 1351c X 4 2
    TGAATTCATAGGCTGTAGATCCAG
>'D12 045 K37 Sid 1351c X 4 2
    TGAATTCATAGGCTGTAGATCCAG
>'E11 044 K37 Sid 1351c X 4 2
    TGAATTCATAGGCTGTAGATCCAG
>'E12 044 K37 Sid 1351c X 4 2
    TGAATTCATAGGCTGTAGATCCAG
>'F11 043 K37 Sid 1351c X 4 2
    TGAATTCATAGGCTGTAGATCCAG
>'F12 043 K37 Sid 1351c X 4 2
    TGAATTCATAGGCTGTAGATCCAG
>'G11 042 K37 Sid 1351c X 4 2
    TGAATTCATAGGCTGTAGATCCAG
>'H11 041 K37 Sid 1351c X 4 2
    TGAATTCATAGGCTGTAGATCCAG
>'A09 040 K81 Sid 1351c X 4 4
    TGAATTCATAGGCTGTAGATCCAG
>'A10 040 K81 Sid 1351c X 4 4
    TGAATTCATAGGCTGTAGATCCAG
>'B09 039 K81 Sid 1351c X 4 4
    TGAATTCATAGGCTGTAGATCCAG
>'B10 039 K81 Sid 1351c X 4 4
    TGAATTCATAGGCTGTAGATCCAG
>'C09 038 K81 Sid 1351c X 4 4
    TGAATTCATAGGCTGTAGATCCAG
>'C10 038 K81 Sid 1351c X 4 4
    TGAATTCATAGGCTGTAGATCCAG
>'D09 037 K81 Sid 1351c X 4 4
    TGAATTCATAGGCTGTAGATCCAG
>'D10 037 K81 Sid 1351c X 4 4
    TGAATTCATAGGCTGTAGATCCAG
>'E09 036 K81 Sid 1351c X 4 4
    TGAATTCATAGGCTGTAGATCCAG
>'E10 036 K81 Sid 1351c X 4 4
    TGAATTCATAGGCTGTAGATCCAG
>'F09 035 K81 Sid 1351c X 4 4
    TGAATTCATAGGCTGTAGATCCAG
>'F10 035 K81 Sid 1351c X 4 4
    TGAATTCATAGGCTGTAGATCCAG
>'G09 034 K81 Sid 1351c X 4 4
    TGAATTCATAGGCTGTAGATCCAG
>'G10 034 K81 Sid 1351c X 4 4

```

```

TGAATTCATAGGCTGTAGATCCAG
>'H09 033 K81 Sid 1351c X 4 4
TGAATTCATAGGCTGTAGATCCAG
>'H10 033 K81 Sid 1351c X 4 4
TGAATTCATAGGCTGTAGATCCAG
>Autosomes

>A1 (Chr1)Primer
GTCTTCTGTGCCTTCAGCAA TCTTTTAGCCTGCTCACC
>human reference
CACTTATTTGGACTTGGTTTTGAGTCTT
>Vindija Neandertal
CACTTCTTTGGACTTGGTTTTGAGTCTT
>chimp
CACTTCTTTGGACTTGGTTTTGAGTCTT
>'A01 008 K24 Sid 1253 A1 2
CACTTCTTTGGACTTGGTTTTGAGTCTT
>'B01 007 K24 Sid 1253 A1 2
CACTTCTTTGGACTTGGTTTTGAGTCTT
>'C01 007 K24 Sid 1253 A1 2
CACTTCTTTGGACTTGGTTTTGAGTCTT
>'A01 008 K77 Sid 1253 A1 3
CACTTCTTTGGACTTGGTTTTGAGTCTT
>'H02 001 K77 Sid 1253 A1 3
CACTTCTTTGGACTTGGTTTTGAGTCTT
>'A01 008 K77 Sid 1253 A1 3
CACTTCTTTGGACTTGGTTTTGAGTCTT
>'A04 016 K78 Sid 1253 A1 4
CACTTATTTGGACTTGGTTTTGAGTCTT
>'B04 015 K78 Sid 1253 A1 4
CACTTATTTGGACTTGGTTTTGAGTCTT
>'C03 014 K78 Sid 1253 A1 4
CACTTATTTGGACTTGGTTTTGAGTCTT
>'C04 014 K78 Sid 1253 A1 4
CACTTATTTGGACTTGGTTTTGAGTCTT
>'D03 013 K78 Sid 1253 A1 4
CACTTATTTGGACTTGGTTTTGAGTCTT
>'D04 013 K78 Sid 1253 A1 4
CACTTATTTGGACTTGGTTTTGAGTCTT
>'E03 012 K78 Sid 1253 A1 4
CACTTATTTGGACTTGGTTTTGAGTCTT
>'E04 012 K78 Sid 1253 A1 4
CACTTATTTGGACTTGGTTTTGAGTCTT
>'F03 011 K78 Sid 1253 A1 4
CACTTATTTGGACTTGGTTTTGAGTCTT
>'G03 010 K78 Sid 1253 A1 4
CACTTATTTGGACTTGGTTTTGAGTCTT
>'G04 010 K78 Sid 1253 A1 4
CACTTATTTGGACTTGGTTTTGAGTCTT
>'H03 009 K78 Sid 1253 A1 4
CACTTATTTGGACTTGGTTTTGAGTCTT
>'H04 009 K78 Sid 1253 A1 4
CACTTATTTGGACTTGGTTTTGAGTCTT
>'B01 007 K23 Sid 1351c A1 1
CACTTCTTTGGACTTGGTTTTGAGTCTT
>'A11 048 K23 Sid 1351c A1 1
CACTTCATTGGACTTGGTTTTGAGTCTT
>'A12 048 K23 Sid 1351c A1 1
CACTTCTTTGGACTTGGTTTTGAGTCTT
>'B11 047 K23 Sid 1351c A1 1
CACTTCTTTGGACTTGGTTTTGAGTCTT
>'B12 047 K23 Sid 1351c A1 1
CACTTCTTTGGACTTGGTTTTGAGTCTT
>'C11 046 K23 Sid 1351c A1 1
CACTTCTTTGGACTTGGTTTTGAGTCTT
>'C12 046 K23 Sid 1351c A1 1
CACTTCTTTGGACTTGGTTTTGAGTCTT
>'D11 045 K23 Sid 1351c A1 1
CACTTCTTTGGACTTGGTTTTGAGTCTT
>'D12 045 K23 Sid 1351c A1 1
CACTTCTTTGGACTTGGTTTTGAGTCTT

```



```

>'E11 044 K23 Sid 1351c A1 1
    CACTTCTTTGGACTTGGTTTTGAGTCTT
>'E12 044 K23 Sid 1351c A1 1
    CACTTCTTTGGACTTGGTTTTGAGTCTT
>'F11 043 K23 Sid 1351c A1 1
    CACTTCTTTGGACTTGGTTTTGAGTCTT
>'F12 043 K23 Sid 1351c A1 1
    CACTTCTTTGGACTTGGTTTTGAGTCTT
>'G11 042 K23 Sid 1351c A1 1
    CACTTCTTTGGACTTGGTTTTGAGTCTT
>'H11 041 K23 Sid 1351c A1 1
    CACTTCTTTGGACTTGGTTTTGAGTCTT
>'A05 024 K79 Sid 1351c A1 4
    CACTTATTTGGACTTGGTTTTGAGTCTT
>'B05 023 K79 Sid 1351c A1 4
    CACTTATTTGGACTTGGTTTTGAGTCTT
>'B06 023 K79 Sid 1351c A1 4
    CACTTATTTGGACTTGGTTTTGAGTCTT
>'C05 022 K79 Sid 1351c A1 4
    CACTTATTTGGACTTGGTTTTGAGTCTT
>'C06 022 K79 Sid 1351c A1 4
    CACTTATTTGGACTTGGTTTTGAGTCTT
>'D05 021 K79 Sid 1351c A1 4
    CACTTATTTGGACTTGGTTTTGAGTCTT
>'D06 021 K79 Sid 1351c A1 4
    CACTTATTTGGACTTGGTTTTGAGTCTT
>'F06 019 K79 Sid 1351c A1 4
    CACTTATTTGGACTTGGTTTTGAGTCTT
>'G06 018 K79 Sid 1351c A1 4
    CACTTATTTGGACTTGGTTTTGAGTCTT
>'H05 017 K79 Sid 1351c A1 4
    CACTTATTTGGACTTGGTTTTGAGTCTT
>C3(Chr8) Primer
GGACTGTTTCTTGTTGTGTGAA
TTTCATGTAGCATTCCTGCACG
>reference
    GTGTTATAGCTCCTTGAAGGTTAACT
>Vindija Neandertal
    GTGTTACAGCTCCTTGAAGGTTAACT
>chimp
    GTGTTACAGCTCCTTGAAGGTTAACT
>'A01 008 K30 Sid 1253 A3 1
    GTGTTACAGCTCCTTGAAGGTTAACT
>'A12 048 K30 Sid 1253 A3 1
    GTGTTACAGCTCCTTGAAGGTTAACT
>'B01 007 K30 Sid 1253 A3 1
    GTGTTACAGCTCCTTGAAGGTTAACT
>'B12 047 K30 Sid 1253 A3 1
    GTGTTACAGCTCCTTGAAGGTTAACT
>'C01 006 K30 Sid 1253 A3 1
    GTGTTACAGCTCCTTGAAGGTTAACT
>'C12 046 K30 Sid 1253 A3 1
    GTGTTACAGCTCCTTGAAGGTTAACT
>'D01 005 K30 Sid 1253 A3 1
    GTGTTACAGCTCCTTGAAGGTTAACT
>'D11 045 K30 Sid 1253 A3 1
    GTGTTACAGCTCCTTGAAGGTTAACT
>'D12 045 K30 Sid 1253 A3 1
    GTGTTACAGCTCCTTGAAGGTTAACT
>'E11 044 K30 Sid 1253 A3 1
    GTGTTACAGCTCCTTGAAGGTTAACT
>'E12 044 K30 Sid 1253 A3 1
    GTGTTACAGCTCCTTGAAGGTTAACT
>'F11 043 K30 Sid 1253 A3 1
    GTGTTACAGCTCCTTGAAGGTTAACT
>'F12 043 K30 Sid 1253 A3 1
    GTGTTACAGCTCCTTGAAGGTTAACT
>'G11 042 K30 Sid 1253 A3 1
    GTGTTACAGCTCCTTGAAGGTTAACT
>'A04 016 K32 Sid 1253 A3 2
    GTGTTACAGCTCCTTGAAGGTTAACT
>'A05 024 K32 Sid 1253 A3 2

```

```
GTGTTACAGCTCCTTGAAGGTTAACT
>'B05 023 K32 Sid 1253 A3 2
GTGTTACAGCTCCTTGAAGGTTAACT
>'C04 014 K32 Sid 1253 A3 2
GTGTTACAGCTCCTTGAAGGTTAACT
>'C05 022 K32 Sid 1253 A3 2
GTGTTACAGCTCCTTGAAGGTTAACT
>'D04 013 K32 Sid 1253 A3 2
GTGTTACAGCTCCTTGAAGGTTAACT
>'D05 021 K32 Sid 1253 A3 2
GTGTTGCAGCTCCTTGAAGGTTAACT
>'F03 011 K32 Sid 1253 A3 2
GTGTTACAGCTCCTTGAAGGTTAACT
>'F04 011 K32 Sid 1253 A3 2
GTGTTACAGCTCCTTGAAGGTTAACT
>'G03 010 K32 Sid 1253 A3 2
GTGTTACAGCTCCTTGAAGGTTAACT
>'G04 010 K32 Sid 1253 A3 2
GTGTTACAGCTCCTTGAAGGTTAACT
>'H03 009 K32 Sid 1253 A3 2
GTGTTACAGCTCCTTGAAGGTTAACT
>'H04 009 K32 Sid 1253 A3 2
GTGTTACAGCTCCTTGAAGGTTAACT
>'A07 032 K80 Sid 1253 A3 4
GTATTACAGCTCCTTGAAGGTTAACT
>'A08 032 K80 Sid 1253 A3 4
GTATTACAGCTCCTTGAAGGTTAACT
>'B07 031 K80 Sid 1253 A3 4
GTATTACAGCTCCTTGAAGGTTAACT
>'B08 031 K80 Sid 1253 A3 4
GTATTACAGCTCCTTGAAGGTTAACT
>'C07 030 K80 Sid 1253 A3 4
GTATTACAGCTCCTTGAAGGTTAACT
>'C08 030 K80 Sid 1253 A3 4
GTATTACAGCTCCTTGAAGGTTAACT
>'D07 029 K80 Sid 1253 A3 4
GTATTACAGCTCCTTGAAGGTTAACT
>'D08 029 K80 Sid 1253 A3 4
GTATTACAGCTCCTTGAAGGTTAACT
>'E07 028 K80 Sid 1253 A3 4
GTATTACAGCTCCTTGAAGGTTAACT
>'E08 028 K80 Sid 1253 A3 4
GTATTACAGCTCCTTGAAGGTTAACT
>'F07 027 K80 Sid 1253 A3 4
GTATTACAGCTCCTTGAAGGTTAACT
>'F08 027 K80 Sid 1253 A3 4
GTATTACAGCTCCTTGAAGGTTAACT
>'G07 026 K80 Sid 1253 A3 4
GTATTACAGCTCCTTGAAGGTTAACT
>'G08 026 K80 Sid 1253 A3 4
GTATTACAGCTCCTTGAAGGTTAACT
>'H07 025 K80 Sid 1253 A3 4
GTATTACAGCTCCTTGAAGGTTAACT
>'H08 025 K80 Sid 1253 A3 4
GTATTACAGCTCCTTGAAGGTTAACT
>'H11 041 K30 Sid 1351c A3 1
GTGTTACAGCTCCTTGAAGGTTAACT
>'A02 008 K31 Sid 1351c A3 1
GTGTTACAGCTCCTTGAAGGTTAACT
>'A03 016 K31 Sid 1351c A3 1
GTGTTAAAGCTCCTTGAAGGTTAACT
>'B02 007 K31 Sid 1351c A3 1
GTGTTACAGCTCCTTGAAGGTTAACT
>'C02 006 K31 Sid 1351c A3 1
GTGTTAAAGCTCCTTGAAGGTTAACT
>'C03 014 K31 Sid 1351c A3 1
GTGTTACAGCTCCTTGAAGGTTAACT
>'D03 013 K31 Sid 1351c A3 1
GTGTTAAAGCTCCTTGAAGGTTAACT
>'E01 004 K31 Sid 1351c A3 1
GTGTTAAAGCTCCTTGAAGGTTAACT
```

```

>'F02 003 K31 Sid 1351c A3 1
      GTGTTACAGCTCCTTGAAGGTTAACT
>'G02 002 K31 Sid 1351c A3 1 '
      GTGTTACAGCTCCTTGAAGGTTAACT
>'H02 001 K31 Sid 1351c A3 1
      GTGTTAAAGCTCCTTGAAGGTTAACT
>FOXP2 Exon 7 position 911

>F911 1 Primer
TTCCTCCTCGACTACCTCCT      AAGCATCACCACCAATAAC
>human reference
      CCAACACTTCCA
>chimp
      CCACCACTTCCA
>'A06 024 K42 Sid 1253 F911-1 1
      CCAACACTTCCA
>'A07 032 K42 Sid 1253 F911-1 1
      CCAACACTTCCA
>'B06 023 K42 Sid 1253 F911-1 1
      CCAACACTTCCA
>'C06 022 K42 Sid 1253 F911-1 1
      CCAACACTTCCA
>'C07 030 K42 Sid 1253 F911-1 1
      CCAACACTTCCA
>'D06 021 K42 Sid 1253 F911-1 1
      CTAACACTTCCA
>'D07 029 K42 Sid 1253 F911-1 1
      CCAACACTTCCA
>'E06 020 K42 Sid 1253 F911-1 1
      CCAACACTTCCA
>'F06 019 K42 Sid 1253 F911-1 1
      CCAACACTTCCA
>'G05 018 K42 Sid 1253 F911-1 1
      CCAACACTTCCA
>'G06 018 K42 Sid 1253 F911-1 1
      CCAACACTTCCA
>'H05 017 K42 Sid 1253 F911-1 1
      CCAACACTTCCA
>'H06 017 K42 Sid 1253 F911-1 1
      CCAACACTTCCA
>'A06 024 K103 Sid 1253 F911-1 3
      CCAACACTTCCA
>'B05 023 K103 Sid 1253 F911-1 3
      CCAACACTTCCA
>'B06 023 K103 Sid 1253 F911-1 3
      CCAACACTTCCA
>'C05 022 K103 Sid 1253 F911-1 3
      CCAACACTTCCA
>'E05 020 K103 Sid 1253 F911-1 3
      CCAACACTTCCA
>'G05 018 K103 Sid 1253 F911-1 3
      CCAACACTTCCA
>'H05 017 K103 Sid 1253 F911-1 3
      CCAACACTTCCA
>'A10 040 K105 Sid 1253 F911-1 4
      CCAACACTTCCA
>'B09 039 K105 Sid 1253 F911-1 4
      CCAACACTTCCA
>'B10 039 K105 Sid 1253 F911-1 4
      CCAACACTTCCA
>'C09 038 K105 Sid 1253 F911-1 4
      CCAACACTTCCA
>'C10 038 K105 Sid 1253 F911-1 4
      CCAACACTTCCA
>'D09 037 K105 Sid 1253 F911-1 4
      CCAACACTTCCA
>'D10 037 K105 Sid 1253 F911-1 4
      CCAACACTTCCA
>'E09 036 K105 Sid 1253 F911-1 4
      CCAACACTTCCA
>'E10 036 K105 Sid 1253 F911-1 4

```

```

CCAACACTTCCA
>'F09 035 K105 Sid 1253 F911-1 4
CCAACACTTCCA
>'F10 035 K105 Sid 1253 F911-1 4
CCAACACTTCCA
>'G10 034 K105 Sid 1253 F911-1 4
CCAACACTTCCA
>'H09 033 K105 Sid 1253 F911-1 4
CCAACACTTCCA
>'H10 033 K105 Sid 1253 F911-1 4
CCAACACTTCCA
>'D12 045 K104 Sid 1351c F911-1 3
CCAACACTTCCA
>'E11 044 K104 Sid 1351c F911-1 3
CCAACACTTCCA
>'E12 044 K104 Sid 1351c F911-1 3
CCAACACTTCCA
>'A11 048 K106 Sid 1351c F911-1 4
CCAACACTTCCA
>'A12 048 K106 Sid 1351c F911-1 4
CCAACACTTCCA
>'B11 047 K106 Sid 1351c F911-1 4
CCAACACTTCCA
>'B12 047 K106 Sid 1351c F911-1 4
CCAACACTTCCA
>'C11 046 K106 Sid 1351c F911-1 4
CCAACACTTCCA
>'C12 046 K106 Sid 1351c F911-1 4
CCAACACTTCCA
>'D11 045 K106 Sid 1351c F911-1 4
CCAACACTTCCA
>'D12 045 K106 Sid 1351c F911-1 4
CCAACACTTCCA
>'E11 044 K106 Sid 1351c F911-1 4
CCAACACTTCCA
>'E12 044 K106 Sid 1351c F911-1 4
CCAACACTTCCA
>'F11 043 K106 Sid 1351c F911-1 4
CCAACACTTCCA
>'F12 043 K106 Sid 1351c F911-1 4
CCAACACTTCCA
>'G11 042 K106 Sid 1351c F911-1 4
CCAACACTTCCA
>'H11 041 K106 Sid 1351c F911-1 4
CCAACACTTCCA
>'D12 045 K106 Sid 1351c F911-1 4
CCAACACTTCCA
>'E11 045 K106 Sid 1351c F911-1 4
CCAACACTTCCA
>'E12 045 K106 Sid 1351c F911-1 4
CCAACACTTCCA
>FOXP2 Exon 7 position 911

>F911-2 Primer
TTCCTCCTCGACTACCTCCT CATCATTCATAGTGAATGGACA
>human reference
CCAACACTTCCAAAGCATCACCACCAATAACT
>chimp
CCACCACTTCCAAAGCGTCACCACCAATAACT
>'A11 048 K18 1253 911-2 959
CCAACACTTCCAAAGCATCACCACCAATAACT
>'A12 048 K18 1253 911-2 959
CCAACACTTCCAAAGCATCACCACCAATAACT
>'B12 047 K18 1253 911-2 959
CCAACACTTCCAAAGCATCACCACCAATAACT
>'C11 046 K18 1253 911-2 959
CCAACACTTCCAAAGCATCACCACCAATAACT
>'C12 046 K18 1253 911-2 959
CCAACACTTCCAAAGCATCACCACCGATAACT
>'D11 045 K18 1253 911-2 959
CCAACACTTCCAAAGCATCACCACCAATAACT

```

```

>'D12 045 K18 1253 911-2 959
    CCAACACTTCCAAAGCATCACCACCAATAACT
>'E11 044 K18 1253 911-2 959
    CCAACACTTCCAAAGCATCACCACCAATAACT
>'E12 044 K18 1253 911-2 959
    CCAACACTTCCAAAGCATCACCACCAATAACT
>'F11 043 K18 1253 911-2 959
    CCAACACTTCCAAAGCATCACCACCAATAACT
>'F12 043 K18 1253 911-2 959
    CCAACACTTCCAAAGCATCACCACCAATAACT
>'G11 042 K18 1253 911-2 959
    CCAACACTTCCAAAGCATCACCACCAATAACT
>'H11 041 K18 1253 911-2 959
    CCAACACTTCCAAAGCATCACCACCAATAACT
>FOXP2 Exon 7 position 977

>F977 1 Primer
CATTCATAGTGAATGGACA          CAAGACGAGACAGCTCGT
>human reference
    GTCTTCAGTTCTAAGTG
>chimp
    GTCTTCAGTTCTAAATG
>'A09 040 K17 1253 977-1 1
    GTCTTCAGTTCTAAGTG
>'A10 040 K17 1253 977-1 1
    GTCTTCAGTTCTAAGTG
>'B09 039 K17 1253 977-1 1
    GTCTTCAGTTCTAAGTG
>'B10 039 K17 1253 977-1 1
    GTCTTCAGTTCTAAGTG
>'C09 038 K17 1253 977-1 1
    GTCTTCAGTTCTAAGTG
>'C10 038 K17 1253 977-1 1
    GTCTTCAGTTCTAAGTG
>'D09 037 K17 1253 977-1 1
    GTCTTCAGTTCTAAGTG
>'D10 037 K17 1253 977-1 1
    GTCTTCAGTTCTAAGTG
>'E09 036 K17 1253 977-1 1
    GTCTTCAGTTCTAAGTG
>'E10 036 K17 1253 977-1 1
    GTCTTCAGTTCTAAGTG
>'F09 035 K17 1253 977-1 1
    GTCTTCAGTTCTAAGTG
>'F10 035 K17 1253 977-1 1
    GTCTTCAGTTCTAAGTG
>'G09 034 K17 1253 977-1 1
    GTCTTCAGTTCTAAGTG
>'G10 034 K17 1253 977-1 1
    GTCTTCAGTTCTAAGTG
>'H09 033 K17 1253 977-1 1
    GTCTTCAGTTCTAAGTG
>'H10 033 K17 1253 977-1 1
    GTCTTCAGTTCTAAGTG
>'A01 008 K107 1351c 977-1 3
    GTCTTCAGTTCTAAGTG
>'A03 016 K107 1351c 977-1 3
    GTCTTCAGTTCTAAGTG
>'B01 007 K107 1351c 977-1 3
    GTCTTCAGTTCTAAGTG
>'B03 015 K107 1351c 977-1 3
    GTCTTCAGTTCTAAGTG
>'C01 006 K107 1351c 977-1 3
    GTCTTCAGTTCTAAGTG
>'C03 014 K107 1351c 977-1 3
    GTCTTCAGTTCTGAGTG
>'D01 005 K107 1351c 977-1 3
    GTCTTCAGTTCTGAGTG
>'D03 013 K107 1351c 977-1 3
    GTCTTCAGTTCTAAGTG
>'E01 004 K107 1351c 977-1 3

```

```

GTCTTCAGTTCTAAGTG
>'E03 012 K107 1351c 977-1 3
GTCTTCAGTTCTAAGTG
>'F01 003 K107 1351c 977-1 3
GTCTTCAGTTCTAAGTG
>'F03 011 K107 1351c 977-1 3
GTCTTCAGTTCTAAGTG
>'G01 002 K107 1351c 977-1 3
GTCTTCAGTTCTAAGTG
>'G03 010 K107 1351c 977-1 3
GTCTTCAGTTCTAAGTG
>'H01 001 K107 1351c 977-1 3
GTCTTCAGTTCTAAGTG
>'A05 024 K108 1351c 977-1 4
GTCTTCAATTCTAAGTG
>'A07 032 K108 1351c 977-1 4
GTCTTCAATTCTAAGTG
>'B05 023 K108 1351c 977-1 4
GTCTTCAATTCTAAGTG
>'B07 031 K108 1351c 977-1 4
GTCTTCAATTCTAAGTG
>'C05 022 K108 1351c 977-1 4
GTCTTCAATTCTAAGTG
>'C07 030 K108 1351c 977-1 4
GTCTTCAATTCTAAGTG
>'D05 021 K108 1351c 977-1 4
GTCTTCAATTCTAAGTG
>'D07 029 K108 1351c 977-1 4
GTCTTCAATTCTAAGTG
>'E05 020 K108 1351c 977-1 4
GTCTTCAATTCTAAGTG
>'E07 028 K108 1351c 977-1 4
GTCTTCAATTCTAAGTG
>'F05 019 K108 1351c 977-1 4
GTCTTCAATTCTAAGTG
>'G05 018 K108 1351c 977-1 4
GTCTTCAATTCTAAGTG
>'G07 026 K108 1351c 977-1 4
GTCTTCAATTCTAAGTG
>'H05 017 K108 1351c 977-1 4
GTCTTCAATTCTAAGTG
>'H07 025 K108 1351c 977-1 4
GTCTTCAATTCTAAGTG
>FOXP2 Intron

>S1 Primer
CAAAATTGGAAGTTATACTTTTTCTT GCCTTGAACGTAATTCTGC
>human reference
ATAATAAGGGCACTTTTTTTTAATTTT
>chimp
ATAATAAGGGCACTTTTTTTTGCCT
>'A11 048 K82 1253 S1 3
ATAATAAGGGCACTTTTTTTTAATTTT
>'A12 048 K82 1253 S1 3
ATAATAAGGGCACTTTTTTTTAATTTT
>'B11 047 K82 1253 S1 3
ATAATAAGGGCACTTTTTTTTAATTTT
>'B12 047 K82 1253 S1 3
ATAATAAGGGCACTTTTTTTTAATTTT
>'C12 046 K82 1253 S1 3
ATAATAAGGGCACTTTTTTTTAATTTT
>'D11 045 K82 1253 S1 3
ATAATAAGGGCACTTTTTTTTAATTTT
>'D12 045 K82 1253 S1 3
ATAATAAGGGCACTTTTTTTTAATTTT
>'E11 044 K82 1253 S1 3
ATAATAAGGGCACTTTTTTTTAATTTT
>'E12 044 K82 1253 S1 3
ATAATAAGGGCACTTTTTTTTAATTTT
>'F11 043 K82 1253 S1 3
ATAATAAGGGCACTTTTTTTTAATTTT

```

```

>'F12 043 K82 1253 S1 3      ATAATAAGGGCACTTTTTTTTAAGTTT
>'G11 042 K82 1253 S1 3      ATAATAAGGGCACTTTTTTTTAATTTT
>'H11 041 K82 1253 S1 3      ATAATAAGGGCACTTTTTTTTAATTTT
>'A01 008 K83 1253 S1 4      ATAATAAGGGCACTTTTTTTTAATTTT
>'A02 008 K83 1253 S1 4      ATAATAAGGGCACTTTTTTTTAATTTT
>'B01 007 K83 1253 S1 4      ATAATAAGGGCACTTTTTTTTAATTTT
>'B02 007 K83 1253 S1 4      ATAATAAGGGCACTTTTTTTTAATTTT
>'C01 006 K83 1253 S1 4      ATAATAAGGGCACTTTTTTTTAATTTT
>'C02 006 K83 1253 S1 4      ATAATAAGGGCACTTTTTTTTAATTTT
>'D01 005 K83 1253 S1 4      ATAATAAGGGCACTTTTTTTTAATTTT
>'D02 005 K83 1253 S1 4      ATAATAAGGGCAC TTTTTTTAATTTT
>'E01 004 K83 1253 S1 4      ATAATAAGGGCACTTTTTTTTAATTTT
>'E02 004 K83 1253 S1 4      ATAATAAGGGCACTTTTTTTTAATTTT
>'F01 003 K83 1253 S1 4      ATAATAAGGGCACTTTTTTTTAATTTT
>'G02 002 K83 1253 S1 4      ATAATAAGGGCACTTTTTTTTAATTTT
>'H01 001 K83 1253 S1 4      ATAATAAGGGCACTTTTTTTTAATTTT
>'H02 001 K83 1253 S1 4      ATAATAAGGGCACTTTTTTTTAATTTT
>FOXP2 Intron
>S2 Primer
GGATGATGTTCTCATTGTGTC      TTTTGTAGGAGTCTCACTCTGT
>human reference
      TTTAAAACTGTATCTTTTCTTTT
>chimp
      TTTAAAACTGTATCTTTTTTTTTT
>'A04 016 K84 1253 S2 4      TTTAAAACTGTATCTTTTCTTTT
>'B03 015 K84 1253 S2 4      TTTAAAACTGTATCTTTTCTTTT
>'B04 015 K84 1253 S2 4      TTTAAAACTGTATCTTTTC TTT
>'C03 014 K84 1253 S2 4      TTTAAAACTGTATCTTTTC TTT
>'C04 014 K84 1253 S2 4      TTTAAAACTGTATCTTTTCTTTT
>'D03 013 K84 1253 S2 4      TTTAAAACTGTATCTTTTCTTTT
>'E03 012 K84 1253 S2 4      TTTAAAACTGTATCTTTTC TTTT
>'E04 012 K84 1253 S2 4      TTTAAAACTGTATCTTTTC TTTT
>'F03 011 K84 1253 S2 4      TTTAAAACTGTATCTTTTC TTTT
>'G03 010 K84 1253 S2 4      TTTAAAACTGTATCTTTTC TTTT
>'G04 010 K84 1253 S2 4      TTTAAAACTGTATCTTTTCTTTT
>'H03 009 K84 1253 S2 4      TTTAAAACTGTATCTTTTCTTTT
>'H04 009 K84 1253 S2 4      TTTAAAACTGTATCTTTTCTTTT
>'A05 024 K85 1351c S2 3      TTTAAAACTGTATCTTTTC TTTT
>'A06 024 K85 1351c S2 3

```

```

TTTAAAACTGTATCTTTTCTTTT
>'B05 023 K85 1351c S2 3
TTTAAAACTGTATCTTTTCTTTT
>'B06 023 K85 1351c S2 3
TTTAAAACTGTATCTTTTCTTTT
>'C05 022 K85 1351c S2 3
TTTAAAACTGTATCTTTTCTTTT
>'C06 022 K85 1351c S2 3
TTTAAAACTGTATCTTTTCTTTT
>'E05 020 K85 1351c S2 3
TTTAAAACTGTATCTTTTC TTTT
>'E06 020 K85 1351c S2 3
TTTAAAACTGTATCTTTTC TTTT
>'F05 019 K85 1351c S2 3
TTTAAAACTGTATCTTTTCTTTT
>'F06 019 K85 1351c S2 3
TTTAAAACTGTATCTTTTCTTTT
>'G06 018 K85 1351c S2 3
TTTAAAACTGTATCTTTTCTTTT
>'H05 017 K85 1351c S2 3
TTTAAAACTGTATCTTTTC TTTT
>'H06 017 K85 1351c S2 3
TTTAAAACTGTATCTTTTCTTTT
>FOXP2 Intron

>S5 Primer
CATTTGGTTTGTAAATAGAATATCC TGCAACCTATAAAAAATGATAGT
>human reference
ATCAAGCTTTTGAAA
>chimp
ATCAAGCTTTTAAAA
>'A08 032 K86 1253 S5 3
ATCAAGCTTTTGAAA
>'B07 031 K86 1253 S5 3
ATCAAGCTTTTGAAA
>'E07 028 K86 1253 S5 3
ATCAAGCTTTTGAAA
>'F07 027 K86 1253 S5 3
ATCAAGCTTTTGAAA
>'G07 026 K86 1253 S5 3
ATCAAGCTTTTGAAA
>'G08 026 K86 1253 S5 3
ATCAAGCTTTTGAAA
>'H08 025 K86 1253 S5 3
ATCAGGCTTTTGAAA
>'A09 040 K87 1253 S5 4
ATTAAGTTTTTGAAA
>'A10 040 K87 1253 S5 4
ATTAAGTTTTTGAAA
>'B10 039 K87 1253 S5 4
ATTAAGTTTTTGAAA
>'C09 038 K87 1253 S5 4
ATTAAGTTTTTGAAA
>'C10 038 K87 1253 S5 4
ATTAAGTTTTTGAAA
>'F09 035 K87 1253 S5 4
ATTAAGTTTTTGAAA
>'G10 034 K87 1253 S5 4
ATTAAGTTTTTGAAA
>'H09 033 K87 1253 S5 4
ATTAAGTTTTTGAAA
>'H10 033 K87 1253 S5 4
ATTAAGTTTTTGAAA
>'A11 048 K88 1351c S5 3
ATCAAGCTTTTGAAA
>'A12 048 K88 1351c S5 3
ATCAAGCTTTTGAAA
>'B11 047 K88 1351c S5 3
ATCAANCTTTTGAAA
>'B12 047 K88 1351c S5 3
ATCAAGCTTTTGAAA

```



```

>'D11 045 K88 1351c S5 3
    ATCAAGCTTTTGAAA
>'D12 045 K88 1351c S5 3
    ATCAAGCTTTTGAAA
>'E11 044 K88 1351c S5 3
    ATCAAGCTTTTGAAA
>'E12 044 K88 1351c S5 3
    ATCAAGCTTTTGAAA
>'F11 043 K88 1351c S5 3
    ATCAAGCTTTTGAAA
>'G11 042 K88 1351c S5 3
    ATCAAGCTTTTGAAA
>'H11 041 K88 1351c S5 3
    ATCAAGCTTTTGAAA
>'A01 008 K89 1351c S5 4
    ATCAAGCTTTTGAAA
>'A02 008 K89 1351c S5 4
    ATCAAGCTTTTGAAA
>'C01 006 K89 1351c S5 4
    ATCAAGCTTTTGAAA
>'D02 005 K89 1351c S5 4
    ATCAAGCTTTTGAAA
>'E01 004 K89 1351c S5 4
    ATCAAGCTTTTGAAA
>FOXP2 Intron

>S6 Primer
CTTCAAGTAACATTCTTTGAGC          ACACTGGGGATATAGCAGTG
>human reference
    TTTCTGTGACTGCAGGCACTCTTATAG
>chimp
    TTTCAAGTGACTGCAGGCACTCTTATAG
>'A03 016 K90 1253 S6 3
    TTTCTGTGACTGCAGGTATTCTTATAG
>'A04 016 K90 1253 S6 3
    TTTCTGTGACTGCAGGTATTCTTATAG
>'B03 015 K90 1253 S6 3
    TTTCTGTGACTGCAGGTATTCTTATAG
>'B04 015 K90 1253 S6 3
    TTTCTGTGACTGCAGGTATTCTTATAG
>'C03 014 K90 1253 S6 3
    TTTCTGTGACTGCAGGTATTCTTATAG
>'C04 014 K90 1253 S6 3
    TTTCTGTGACTGCAGGTATTCTTATAG
>'D03 013 K90 1253 S6 3
    TTTCTGTGACTGCAGGTATTCTTATAG
>'D04 013 K90 1253 S6 3
    TTTCTGTGACTGCAGGTATTCTTATAG
>'E03 012 K90 1253 S6 3
    TTTCTGTGACTGCAGGTATTCTTATAG
>'E04 012 K90 1253 S6 3
    TTTCTGTGACTGCAGGTATTCTTATAG
>'F03 011 K90 1253 S6 3
    TTTCTGTGACTGCAGGTATTCTTATAG
>'F04 011 K90 1253 S6 3
    TTTCTGTGACTGCAGGTATTCTCATAG
>'G03 010 K90 1253 S6 3
    TTTCTGTGACTGCAGGTATTCTTATAG
>'G04 010 K90 1253 S6 3
    TTTCTGTGACTGCAGGTATTCTTATAG
>'H03 009 K90 1253 S6 3
    TTTCTGTGACTGCAGGTATTCTTATAG
>'H04 009 K90 1253 S6 3
    TTTCTGTGACTGCAGGTATTCTTATAG
>'A05 024 K91 1351c S6 4
    TTTCAAGTGACTGCAGGCACTCTTATAG
>'A06 024 K91 1351c S6 4
    TTTCAAGTGACTGCAGGCACTCTTATAG
>'B05 023 K91 1351c S6 4
    TTTCAAGTGACTGCAGGCACTCTTATAG
>'B06 023 K91 1351c S6 4

```

```

>'C06 022 K91 1351c S6 4 TTTTCAGTGACTGCAGGCACTCTTATAG
>'D05 021 K91 1351c S6 4 ' TTTTCAGTGACTGCAGGCACTCTTATAG
>'D06 021 K91 1351c S6 4 TTTTCAGTGACTGCAGGCACTCTTATAG
>'E05 020 K91 1351c S6 4 TTTTCAGTGACTGCAGGCACTCTTATAG
>'E06 020 K91 1351c S6 4 TTTTCAGTGACTGCAGGCACTCTTATAG
>'F05 019 K91 1351c S6 4 TTTTCAGTGACTGCAGGCACTCTTATAG
>'F06 019 K91 1351c S6 4 TTTTCAGTGACTGCAGGCACTCTTATAG
>'G05 018 K91 1351c S6 4 TTTTCAGTGACTGCAGGCACTCTTATAG
>'G06 018 K91 1351c S6 4 TTTTCAGTGACTGCAGGCACTCTTATAG
>'H05 017 K91 1351c S6 4 TTTTCAGTGACTGCAGGCACTCTTATAG
>'H06 017 K91 1351c S6 4 TTTTCAGTGACTGCAGGCACTCTTATAG
>FOXP2 Intron
>S7 Primer
TGTAATTATAAAGAGTTTCTTGGGTTTTTCTTGCTCAAATAGAATTGGAAAACGCTGACTTCAAATGA
>human reference
TTTTTCTTGCTCAAATAGAATTG
>chimp
TTTTTCTTCCTCAAATATAATTG
>'A07 032 K92 1253 S7 3 TTTTTCTTGCTCAAATAGAATTG
>'A08 032 K92 1253 S7 3 TTTTTCTTGCTCAAATAGAATTG
>'B07 031 K92 1253 S7 3 TTTTTCTTGCTCAAATAGAATTG
>'B08 031 K92 1253 S7 3 TTTTTCTTGCTCAAATAGAATTG
>'C07 030 K92 1253 S7 3 TTTTTCTTGCTCAAATAGAATTG
>'C08 030 K92 1253 S7 3 TTTTTCTTGCTCAAATAGAATTG
>'D07 029 K92 1253 S7 3 TTTTTCTTGCTCAAATAGAATTG
>'D08 029 K92 1253 S7 3 TTTTTCTTGCTCAAATAGAATTG
>'E07 028 K92 1253 S7 3 TTTTTCTTGCTCAAATAGAATTG
>'E08 028 K92 1253 S7 3 TTTTTCTTGCTCAAATAGAATTG
>'F07 027 K92 1253 S7 3 TTTTTCTTGCTCAAATAGAATTG
>'F08 027 K92 1253 S7 3 TTTTTCTTGCTCAAATAGAATTG
>'G07 026 K92 1253 S7 3 TTTTTCTTGCTCAAATAGAATTG
>'G08 026 K92 1253 S7 3 TTTTTCTTGCTCAAATAGAATTG
>'H07 025 K92 1253 S7 3 TTTTTCTTGCTCAAATAGAATTG
>'H08 025 K92 1253 S7 3 TTTTTCTTGCTCAAATAGAATTG
>'A11 048 K94 1253 S7 4 TTTTTCTTGCTCAAATAGAATTG
>'A12 048 K94 1253 S7 4 TTTTTCTTGCTCAAATAGAATTG
>'B11 047 K94 1253 S7 4 TTTTTCTTGCTCAAATAGAATTG
>'B12 047 K94 1253 S7 4 TTTTTCTTGCTCAAATAGAATTG

```

```

>'C11 046 K94 1253 S7 4
TTTTTCTTGCTCAAATAGAATTG
>'C12 046 K94 1253 S7 4
TTTTTCTTGCTCAAATAGAATTG
>'D11 045 K94 1253 S7 4
TTTTTCTTGCTCAAATAGAATTG
>'D12 045 K94 1253 S7 4
TTTTTCTTGCTCAAATAGAATTG
>'E11 044 K94 1253 S7 4
TTTTTCTTGCTCAAATAGAATTG
>'E12 044 K94 1253 S7 4
TTTTTCTTGCTCAAATAGAATTG
>'F11 043 K94 1253 S7 4
TCTTTCTTGCTCAAATAGAATTG
>'F12 043 K94 1253 S7 4
TTTTTCTTGCTCAAATAGAATTG
>'G11 042 K94 1253 S7 4
TTTTTCTTGCTCAAATAGAATTG
>'H11 041 K94 1253 S7 4
TTTTTCTTGCTCAAATAGAATTG
>FOXP2 Intron

>S8 Primer
TTCAGAAACTGTTACATGATTTTA
AGGAATGCTAGAAGGGAGG
>human reference
>chimp
>'A03 016 K96 1253 S8 4
>'A04 016 K96 1253 S8 4
>'B03 015 K96 1253 S8 4
>'B04 015 K96 1253 S8 4
>'C03 014 K96 1253 S8 4
>'C04 014 K96 1253 S8 4
>'D03 013 K96 1253 S8 4
>'D04 013 K96 1253 S8 4
>'E03 012 K96 1253 S8 4
>'E04 012 K96 1253 S8 4
>'F03 011 K96 1253 S8 4
>'F04 011 K96 1253 S8 4
>'G03 010 K96 1253 S8 4
>'G04 010 K96 1253 S8 4
>'H03 009 K96 1253 S8 4
>'H04 009 K96 1253 S8 4
>'A05 024 K97 1351c S8 3
>'A06 024 K97 1351c S8 3
>'B05 023 K97 1351c S8 3
>'B06 023 K97 1351c S8 3
>'C05 022 K97 1351c S8 3
>'C06 022 K97 1351c S8 3

```

```

                AAAAAAAGCTGGATGAGGAGTTA
>'D05 021 K97 1351c S8 3
                AAAAAAAGCTGGATGAGGAGTTA
>'D06 021 K97 1351c S8 3
                AAAAAAANCTGGATNAGGAGTTA
>'E05 020 K97 1351c S8 3
                AAAAAAAGCTGGATGAGGAGTTA
>'E06 020 K97 1351c S8 3
                AAAAAAAGCTGGATGAGGAGTTA
>'F05 019 K97 1351c S8 3
                AAAAAAAGCTGGATGAGGAGTTA
>'F06 019 K97 1351c S8 3
                AAAAAA GCTGGATGAGGAGTTA
>'G05 018 K97 1351c S8 3
                AAAAAAAGCTGGATGAGGAGTTA
>'H05 017 K97 1351c S8 3
                AAAAAAAGCTGGATGAGGAGTTA
>'H06 017 K97 1351c S8 3
                AAAAAAAGCTGGATGAGGAGTTA
>FOXP2 Intron

>S8 Primer
CAGGCAAGAGCCAGATAATA                                GGTGTGTTTTGTTTCTGTT
>human reference
                AGTGCAGTGCCCCATAGGCTATATTAAA
>chimp
                AGTGCAGTGCCCCATAGGCTATAGTAAA
>'A08 032 K98 1253 S9 4
                AGTGCAGTACCCCATAACTATATTAAA
>'B07 031 K98 1253 S9 4
                AGTGCAGTACCCCATAACTATATTAAA
>'B08 031 K98 1253 S9 4
                AGTGCAGTACCCCATAACTATATTAAA
>'C07 030 K98 1253 S9 4
                AGTGCAGTACCCCATAACTATATTAAA
>'C08 030 K98 1253 S9 4
                AGTGCAGTACCCCATAACTATATTAAA
>'D07 029 K98 1253 S9 4
                AGTGCAGTACCCCATAACTATATTAAA
>'D08 029 K98 1253 S9 4
                AGTGCAGTACCCCATAACTATATTAAA
>'E07 028 K98 1253 S9 4
                AGTGCAGTACCCCATAACTATATTAAA
>'E08 028 K98 1253 S9 4
                AGTGCAGTACCCCATAACTATATTAAA
>'F07 027 K98 1253 S9 4
                AGTGCAGTACCCCATAACTATATTAAA
>'F08 027 K98 1253 S9 4
                AGTGCAGTACCCCATAACTATATTAAA
>'G07 026 K98 1253 S9 4
                AGTGCAGTACCCCATAACTATATTAAA
>'G08 026 K98 1253 S9 4
                AGTGCAGTACCCCATAACTATATTAAA
>'H08 025 K98 1253 S9 4
                AGTGCAGTACCCCATAACTATATTAAA

```