



Neanderthal mtDNA

HVR1 Sequences and Mutations:

DQ836132 (Italy)

```
1  ttctttcatg  ggggagcaga  tttgggtacc  acccaagtat  tgactcacc  atcaacaacc
61  gctatgtatt  tcgtacatta  ctgccagcca  ccatgaatat  tgtacagta  cataattact
121 tgactacctg  tagtacataa  aaacctaata  cacatcaacc  ccccccccc  atgcttacia
181 gcaagcacag  caatcaacct  tcaactgtca  tacatcaact  acaactcaa  agacgcctt
241 acaccacta  ggataccaac  aaacctacc  accottaaca  gtacatagc  cataaagcca
301 tttaccgtac  atagcacatt  acagtcaaat  cccttctcat  ccccatagat  gacccccctc
361 aaataggggt  cccttgat
```

Mutation List

A16037G G16129A A16139T C16148T C16169T A16182. A16183. T16189C 16193.C
16193.C T16209C C16223T A16230G C16234T G16244A C16256A A16258G C16262T
16263.A T16311C G16361A G16369A G16384A C16400T

DQ464008 (Belgium)

```
1  acagcaatca  accttcaact  gtcatacatc  aaccacaact  ccaaagacac  ctttacatcc
61  actaggatat  caacaaacct  actcaccctt  gacagtacat  agcacataaa  gtcatttacc
121 gta
```

Mutation List

C16223T A16230G C16234T T16243C G16244A C16256A C16262T 16263.A C16266T
C16278T C16291T A16299G T16311C C16320T

AF254446 (Russia)

```
1  ccaagtattg  actcaccat  caacaaccgc  catgtatttc  gtacattact  gccagccacc
61  atgaatattg  tacagtacca  taattacttg  actacctgta  atacataaaa  acctaatcca
121 catcaacccc  cccccccat  gcttacaagc  aagcacagca  atcaaccttc  aactgtcata
181 catcaactac  aactccaaag  acacccttac  acccactagg  atatcaacaa  acctaccac
241 ccttgacagt  acatagcaca  taaagtcatt  taccgtacat  agcacattat  agtcaaattc
301 cttctcgccc  ccatggatga  cccccctcag  ataggggtcc  cttga
```

Mutation List

T16086C G16129A A16139T C16148T G16156A C16169T A16182. A16183. T16189C
16193.C 16193.C T16209C C16223T A16230G C16234T G16244A C16256A C16262T
16263.A C16278T A16299G T16311C C16320T C16344T T16362C

AF011222

1 gttctttcat gggggagcag atttgggtac cacccaagta ttgactcacc catcagcaac
61 cgctatgtat ctcgtagcatt actgtagtacc accatgaata ttgtacagta ccataattac
121 ttgactacct gcagtacata aaaacctaata ccacatcaaa ccccccccc catgcttaca
181 agcaagcaca gcaatcaacc ttcaactgtc atacatcaac tacaactcca aagacgcct
241 tacaccact aggatatcaa caaacctacc cacccttgac agtacatagc acataaagtc
301 atttaccgta catagcacat tacagtcaaa tcccttctcg ccccatgga tgaccct
361 cagatagggg tcccttgat

Mutation List

A16037G A16078G T16093C C16107T C16108T C16111T C16112T G16129A A16139T
C16148T T16154C C16169T A16183. T16189C 16193.C T16209C C16223T A16230G
C16234T G16244A C16256A A16258G C16262T 16263.A C16278T A16299G T16311C
C16320T T16362C C16400T

AF282971 (Croatia)

1 gttctttcat gggggagcag atttgggtac cacccaagta ttgactcacc catcagcaac
61 cgctatgtat ttcgtagcatt actgccagcc accatgaata ttgtacagta ccataattac
121 ttgactacct gcagtacata aaaacctaata ccacatcaac ccccccccc catgcttaca
181 agcaagcaca gcaatcaacc ttcaactgtc atacatcaac tacaactcca aagacgcct
241 tacaccact aggatatcaa caaacctacc cacccttgac agtacatagc acataaagtc
301 atttaccgta catagcacat tacagtcaaa tcccttctcg ccccatgga tgacccc

Mutation List

A16037G A16078G G16129A A16139T C16148T T16154C C16169T A16182. A16183.
T16189C 16193.C 16193.C T16209C C16223T A16230G C16234T G16244A C16256A
A16258G C16262T 16263.A C16278T A16299G T16311C C16320T T16362C

AY149291 (Germany)

1 gttctttcat gggggagcag atttgggtac cacccaagta ttgactcacc catcagcaac
61 cgctatgtat ttcgtagcatt actgccagcc accatgaata ttgtacagta ccataattac
121 ttgactacct gcagtacata aaaacctaata ccacatcaac ccccccccc catgcttaca
181 agcaagcaca gcaatcaacc ttcaactgtc atacatcaac tacaactcca aagacaccct
241 tacaccact aggatatcaa caaacctacc cacccttgac agtacatagc acataaagtc
301 atttaccgta catagcacat tacagtcaaa tcccttctcg ccccatgga tgacccc

Mutation List

A16037G A16078G G16129A A16139T C16148T T16154C C16169T A16182. A16183.
T16189C 16193.C 16193.C T16209C C16223T A16230G C16234T G16244A C16256A
C16262T 16263.A C16278T A16299G T16311C C16320T T16362C

DQ859014 (Spain)

1 agcaaccgct atgtatttctg tacattactg ccagccacca tgaatattgt acagtaccat
61 aattacttga ctacctgcag tacataaaaa cctaattccac accaaccctc ccccccatg

121 cttacaagca agcacagcaa tcaaccttca actgtcatac atcaactaca actccaaaga
181 cgcccttaca cccactagga tatcaacaaa cctaccacc cttgacagta catagcacat
241 aaagtcatth accgtacata gcacattaca gtcaaattccc ttctcgcccc catggatgac
301 ccc

Mutation List

A16078G G16129A A16139T C16148T T16154C C16169T T16178C A16182. A16183.
T16189C 16193.C 16193.C T16209C C16223T A16230G C16234T G16244A C16256A
A16258G C16262T 16263.A C16278T A16299G T16311C C16320T T16362C

HVR2 Sequences and Mutations:

AF282972 (Croatia)

1 ttttcgtctg ggggggtgtgc acgcgatagc attgcgagac gctggagccg gagcacccta
61 tgtcgcagta tctgtctttg attcctgccc cattccatta tttatcgcac ctacgttcaa
121 tattacaggc gagcatactt actgaagtgt gttaattaat taatgcttgt aggacataat
181 aataacgact aaatgtctgc acagctgctt tccacacaga catcataaca aaaaatttcc
241 accaaacctc cccctcccc gcttctggcc acagcactta aatacatc

Mutation List

A073G T146C C150T T152C A189G A200G A243G T245C G247A C262T A263G 304.T
C338T

AF142095

1 ttttcgtctg ggggggtgtgc acgcgatagc attgcgagac gctggagccg gagcacccta
61 tgtcgcagta tctgtctttg attcctgccc cattccatta tttatcgcac ctacgttcaa
121 tattacaggc gagcatactt actaaagtgt gttaattaat taatgcttgt aggacataat
181 aataacgact aaatgtctgc acagctgctt tccacacaga catcataaca aaaaatttcc
241 accaaacccc ctttctctcc ccgcttctgg ccacagcact taaacacatc tctgccaac
301 cccaaaaaca aagaacccta acaccagcct aaccagactt caaat

Mutation List

A073G T146C C150T T152C A189G A243G T245C G247A C262T A263G 307.1T 307.2T
307.3T T391C