

Homo sapiens chromosome 17 vs. Lycium barbarum isolate Lr01 chromosome 6

|                                                       |       |                                                                                             |     |     |     |     |     |     |     |  |  |
|-------------------------------------------------------|-------|---------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|--|--|
|                                                       |       | Section 1                                                                                   |     |     |     |     |     |     |     |  |  |
|                                                       | (1)   | 1                                                                                           | 10  | 20  | 30  | 40  | 50  | 60  | 75  |  |  |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (1)   | AGAGCCACTTTT TTT CAGT TGA AGTC TGA GTT CTTA TGGGC CATG ACCA AGGC TGCT GCTTCC TCAAAAGGC ACGA |     |     |     |     |     |     |     |  |  |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (1)   | -----GAG TTTAAGAT --ATGA TGT GTT GGCC TTGGG CAC ACCT ATAG TGAA GAGATT TCACTTCTTACAA         |     |     |     |     |     |     |     |  |  |
|                                                       |       | Section 2                                                                                   |     |     |     |     |     |     |     |  |  |
|                                                       | (76)  | 76                                                                                          | 90  | 100 | 110 | 120 | 130 | 140 | 150 |  |  |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (76)  | AGGGGGCCGCGT GCGGTGGCTCACGCTTGTAACTCCAGCACTTTGGGAGAGGCCAAGGCGGGC--GGATCACGAGGT              |     |     |     |     |     |     |     |  |  |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (66)  | ACAAAAGAGCTAATT TGGTCTATCTTTAA--CTACTAAGTTGTGAGTGAATTTTAAACCTTGTTTAACTGTT                   |     |     |     |     |     |     |     |  |  |
|                                                       |       | Section 3                                                                                   |     |     |     |     |     |     |     |  |  |
|                                                       | (151) | 151                                                                                         | 160 | 170 | 180 | 190 | 200 | 210 | 225 |  |  |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (149) | CAGGAGTTTGAGATCAGCCTGGCAAA CATGGCGACACCC TGTCTCTACTAAAAATACA AACAT -TAGCCGGGCGT             |     |     |     |     |     |     |     |  |  |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (139) | TGTGTGTTCATGACTAGGC-----CTGAATAGATTT TGTAA C- ACTAAAAAGAGGAATATATAGACAGTCTT                 |     |     |     |     |     |     |     |  |  |
|                                                       |       | Section 4                                                                                   |     |     |     |     |     |     |     |  |  |
|                                                       | (226) | 226                                                                                         | 240 | 250 | 260 | 270 | 280 | 290 | 300 |  |  |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (223) | GGTGGCGTGTGTCCTGTAGTCCAGCTACTTGGGAGGCTGAGACA GGAGACTT GCTTGAATGTGGGAGGCGGAGGT               |     |     |     |     |     |     |     |  |  |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (206) | CTTGTGT -TGTGAATCGTCTTTTGAAGTTTGTAG -CTAATTTGG-----TTCTGTCCATATATGTGACTTTGTT                |     |     |     |     |     |     |     |  |  |
|                                                       |       | Section 5                                                                                   |     |     |     |     |     |     |     |  |  |
|                                                       | (301) | 301                                                                                         | 310 | 320 | 330 | 340 | 350 | 360 | 375 |  |  |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (298) | TGCAGTGAAGTCAGATCGTGCAC TGCAC TCAGCCTGGGTGACAAAAGTGAACTCTTGTCTTTAAAAA                       |     |     |     |     |     |     |     |  |  |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (274) | TC---TCTGTGAATGTATCCCATGCTCAGTCTGTGT---AGATGTCTAAGAACTCTTCACTGTGTGT                         |     |     |     |     |     |     |     |  |  |
|                                                       |       | Section 6                                                                                   |     |     |     |     |     |     |     |  |  |
|                                                       | (376) | 376                                                                                         | 390 | 400 | 410 | 420 | 430 | 440 | 450 |  |  |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (373) | AAAGAAA TGCAAGGAAGG--GAAC---AGGGAACAAGGCTGGGAGGGAGGA-GCGGACGGCTGCAGCAAGCTC G                |     |     |     |     |     |     |     |  |  |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (341) | AATTTTGTGTACGGAGTCTGATCTTGAGAGTAAATGTCTGAGATGCTTCACTGTCAA GATGTCTGTATGGATCT                 |     |     |     |     |     |     |     |  |  |
|                                                       |       | Section 7                                                                                   |     |     |     |     |     |     |     |  |  |
|                                                       | (451) | 451                                                                                         | 460 | 470 | 480 | 490 | 500 | 510 | 525 |  |  |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (442) | GCCTCAGCCTCCCTTCCCTGCTCCTCTGAGATGCCGAGGGCGGGGCTACTCACTGCAAGCCTGCCAAGTAGGAC                  |     |     |     |     |     |     |     |  |  |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (416) | GTCTTCACTAAGT---CTATATCTTAGGTGTTTATGATGGCTGGG-GTCTATCT-----CTTTTATTTATTTT                   |     |     |     |     |     |     |     |  |  |

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|-------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|------|------|------|------|------|------------|
|                                                       | (526) | 526                                                                                                                                                     | 540 | 550  | 560  | 570  | 580  | 590  | 600  | Section 8  |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (517) | C T C C A T G T C C T C T G A C A T T C G A - - G A G A T G G A A T T T T T T G G C C C T G A G A T C A C G T C T C C T A C T G T G T C G T C A T T C T |     |      |      |      |      |      |      |            |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (481) | - T C A A T A T G A T - T G A A A G T C T G T T T A G C T C A A G G T A G A G G T C T A G T G A T T - - G T T T A A C A C A T - - - - G C C T T T T     |     |      |      |      |      |      |      |            |
|                                                       | (601) | 601                                                                                                                                                     | 610 | 620  | 630  | 640  | 650  | 660  | 675  | Section 9  |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (590) | A G C A C C T G T G G T G A C T T C C T C A T G T G A G T G A G G C A T A A G C A C C G G A A T C C G G A C T G G A G G C C G T C T C T G C C T C       |     |      |      |      |      |      |      |            |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (548) | A G C A T T A T A T G G G G T T T G C C T G A A A T A A A A T G G G - - T A A T T T C C T - - - A T A C T A A C T C C T C T C C T A C T T G T T T A     |     |      |      |      |      |      |      |            |
|                                                       | (676) | 676                                                                                                                                                     | 690 | 700  | 710  | 720  | 730  | 740  | 750  | Section 10 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (665) | T G G A T T G C A C A C T G G C C T A C A G A C C T G G G A C A G A G T C T T T C A C G A G T T G T G T A T C G T T T A A C A G A A A C C C A A C A     |     |      |      |      |      |      |      |            |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (618) | T T - - T T G C A - - - T G A C C - - - A C A C C - G G A G C C G A A G A G T T T C C - - - - - - - - - T C T T T G A A A C T C A A C G A C G T T       |     |      |      |      |      |      |      |            |
|                                                       | (751) | 751                                                                                                                                                     | 760 | 770  | 780  | 790  | 800  | 810  | 825  | Section 11 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (740) | G T T - C C A C C C A A A C C T C T G A C A C A T T C T C G G G C T T G G G A A G T G T C C C A A A G C A C C A A G G G G G T G A G A C A C A C G C     |     |      |      |      |      |      |      |            |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (673) | G T T A C C A C A T G G A G C C G G T G - - - C A T C C T C G A T C A A T T C C A G T T T T A T A T C G C G C A A A G A G A C C A C A A A T A A T       |     |      |      |      |      |      |      |            |
|                                                       | (826) | 826                                                                                                                                                     | 840 | 850  | 860  | 870  | 880  | 890  | 900  | Section 12 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (814) | C T T G A A A A A T G G C A G T A G G C A T A C T T A C C T G T C T T C A T G C G C T C A C A T A C G A G G T G T A C C T A G A A C G C C C T C A T G   |     |      |      |      |      |      |      |            |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (745) | C - - - A A A T C T T T C T G T C G G A G - - - - - C C T A T T T T G G C T A A T T T A T T T A T T T G T G A T G C T - G C T T G T T T A A A T G       |     |      |      |      |      |      |      |            |
|                                                       | (901) | 901                                                                                                                                                     | 910 | 920  | 930  | 940  | 950  | 960  | 975  | Section 13 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (889) | T T A T A T T C C C A G C A C T A A T G A A G C T A C T G T C A A C A G C T - A T T T G T T C C A A A G A A T T T T C C C T T G C G C A - G C C G       |     |      |      |      |      |      |      |            |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (810) | T T - T G G T G T G A C T A A C A T T C T A C C T A A T T G T G T G G T T A T T A T A A A A T G C T T A A C T G T T T T A T T T T A A C C A G T C C     |     |      |      |      |      |      |      |            |
|                                                       | (976) | 976                                                                                                                                                     | 990 | 1000 | 1010 | 1020 | 1030 | 1040 | 1050 | Section 14 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (962) | C A G C C T G G A G G A A G C A G G G C G T G T G C C T C G T C T G C T G G C G G C A G C A G T G A G G G G T G T A G C C A A G T G C C C A C T T C     |     |      |      |      |      |      |      |            |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (884) | C A T T T T A T C C A T A C T A G G A T G T C T T A A C C A G C A A T T T A G G T C T T A A A T C A A G T G G A G T T T A A T T G T C C T - C T T G     |     |      |      |      |      |      |      |            |

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|                                                                                                               |        | Section 15 |          |           |          |        |         |        |        |      |         |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (1051) | 1051       | 1060     | 1070      | 1080     | 1090   | 1100    | 1110   |        |      |         |
|                                                                                                               | (1037) | TCTCA      | TT--     | CAGCTGCTT | CGGGGC   | AAACT  | GGAAGAT | CCTT   | TGAGC  | TCA  | AGCCCT  |
|                                                                                                               | (958)  | TGAGT      | TTGG     | CACCTTTT  | TTAGTT   | AGAA   | GAAAGAT | A---   | TGCTT  | TCA  | AAGTAT  |
|                                                                                                               |        | Section 16 |          |           |          |        |         |        |        |      |         |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (1126) | 1126       | 1140     | 1150      | 1160     | 1170   | 1180    | 1190   |        |      |         |
|                                                                                                               | (1110) | AACT       | GCGG     | GCCTGT    | GTGC     | ACAGCC | ACCC    | ACAGC  | GCGC   | -    | ACAACAC |
|                                                                                                               | (1027) | AAAC       | -GTTA    | GCTTGT    | TTTG     | AGAA   | ATAAA   | A-     | AGCAAA | CT   | AGTTTTT |
|                                                                                                               |        | Section 17 |          |           |          |        |         |        |        |      |         |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (1201) | 1201       | 1210     | 1220      | 1230     | 1240   | 1250    | 1260   |        |      |         |
|                                                                                                               | (1184) | AA         | CAGCGT   | TG        | CCCTCGCT | CAGG   | GCCCC   | TGC    | TGGT   | ACT  | ACGCTT  |
|                                                                                                               | (1100) | TC         | CAATAT   | TT        | TGAAA    | ----   | CAT     | G      | TATT   | TAT  | TAAAC   |
|                                                                                                               |        | Section 18 |          |           |          |        |         |        |        |      |         |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (1276) | 1276       | 1290     | 1300      | 1310     | 1320   | 1330    | 1340   |        |      |         |
|                                                                                                               | (1259) | C          | TCATACAT | TGCAT     | TTTCT    | C      | CCCC    | TAAGCT | GCA    | C    | GGGGC   |
|                                                                                                               | (1166) | T          | TCATA    | AGT       | C---     | TTTCA  | TGT     | -      | TAAGCT | AAT  | C----   |
|                                                                                                               |        | Section 19 |          |           |          |        |         |        |        |      |         |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (1351) | 1351       | 1360     | 1370      | 1380     | 1390   | 1400    | 1410   |        |      |         |
|                                                                                                               | (1334) | C          | ATCCGG   | GCTCC     | GCTCTGT  | TAT    | TGTTCC  | TGAAT  | TCA    | GT   | TGCT    |
|                                                                                                               | (1231) | T          | ATTTAG   | GT        | TCAC     | TACT   | TT      | T      | CA     | TA-- | TGA     |
|                                                                                                               |        | Section 20 |          |           |          |        |         |        |        |      |         |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (1426) | 1426       | 1440     | 1450      | 1460     | 1470   | 1480    | 1490   |        |      |         |
|                                                                                                               | (1409) | TT         | TCAG     | TG        | TC       | TTTT   | AATT    | AGG    | CAAC   | AGGA | AAAAA   |
|                                                                                                               | (1302) | --         | TCAG     | CC        | TC       | ---    | AATT    | TTTT   | C      | TC   | A       |
|                                                                                                               |        | Section 21 |          |           |          |        |         |        |        |      |         |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (1501) | 1501       | 1510     | 1520      | 1530     | 1540   | 1550    | 1560   |        |      |         |
|                                                                                                               | (1484) | CA         | ACACAGC  | ACT       | CGC      | TCCCT  | GCG     | TT     | CTGG   | TAA  | G       |
|                                                                                                               | (1368) | TT         | A-----   | A         | TACCT    | TCCCT  | ---     | TT     | AGAT   | TAA  | T       |

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|                                                       |        |                                                                                   |      |      |      |      |      |      |      |            |
|-------------------------------------------------------|--------|-----------------------------------------------------------------------------------|------|------|------|------|------|------|------|------------|
|                                                       | (1576) | 1576                                                                              | 1590 | 1600 | 1610 | 1620 | 1630 | 1640 | 1650 | Section 22 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (1559) | AAGAGCAGGAAAGTCACTCGCTCTGGAAAAGA-AGCTGGTTTTTCATCTGC TGTATGTGCTGTGCCCAAACA-TAC     |      |      |      |      |      |      |      |            |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (1428) | AGCACCCGGTGCTTAGCCTACCGGGCACCCTTAACACTCATTTTATATGCT-TACATCTAGGTGACCCCATACAAATT    |      |      |      |      |      |      |      |            |
|                                                       |        |                                                                                   |      |      |      |      |      |      |      | Section 23 |
|                                                       | (1651) | 1651                                                                              | 1660 | 1670 | 1680 | 1690 | 1700 | 1710 | 1725 |            |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (1632) | CCTTTTCCTCTTTTFTTAGTATTTTTTC---CCAATTAGGAATTC AATGTGGAA AACATAACCTTTTCTTCA        |      |      |      |      |      |      |      |            |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (1502) | AACAATACAAATCTATTCTGCATCATACAGTCCCAATT-GGACGATAATGCCTTTAT-ATAATGATTGGCATTTA       |      |      |      |      |      |      |      |            |
|                                                       |        |                                                                                   |      |      |      |      |      |      |      | Section 24 |
|                                                       | (1726) | 1726                                                                              | 1740 | 1750 | 1760 | 1770 | 1780 | 1790 | 1800 |            |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (1704) | CAGGCTTTTAAATGT---TGGGAA GACA--GGTTAAAAACACAACAACAGGCTGGCTGTGCCGGCGC-ACGCC        |      |      |      |      |      |      |      |            |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (1575) | TGCCACAATCAACGTACATGAGCCGACAAGGCTATCAAAAAATGATATACAAATATATGGGCACACAAATCTAGACATA   |      |      |      |      |      |      |      |            |
|                                                       |        |                                                                                   |      |      |      |      |      |      |      | Section 25 |
|                                                       | (1801) | 1801                                                                              | 1810 | 1820 | 1830 | 1840 | 1850 | 1860 | 1875 |            |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (1774) | TGGAAATCCAGCACTGTGG-AGGCCAAGGCAGGCAGATCACTGTAGGTTCAGGAGTTTTCGAGACAGCTGGCCAA       |      |      |      |      |      |      |      |            |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (1650) | TCTAACCATATACAAATGACTACGAGACTCTAAGAAGAGTATAACATATTCACATGAGCGGGACAGGACAAGACCC      |      |      |      |      |      |      |      |            |
|                                                       |        |                                                                                   |      |      |      |      |      |      |      | Section 26 |
|                                                       | (1876) | 1876                                                                              | 1890 | 1900 | 1910 | 1920 | 1930 | 1940 | 1950 |            |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (1848) | CATGCGGAAACCCCGTCTCTACTAAAAATACAAAATTAGT CAGGC GC GG TGGTGT CGCT TGTAAT --- CTCAG |      |      |      |      |      |      |      |            |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (1725) | CGCTGTGCCTATAATTATGTACAAAAAGA--ATGAGTACC CA AAA GC TA TGGCTC CGAATGAATGGAGCTCTG   |      |      |      |      |      |      |      |            |
|                                                       |        |                                                                                   |      |      |      |      |      |      |      | Section 27 |
|                                                       | (1951) | 1951                                                                              | 1960 | 1970 | 1980 | 1990 | 2000 | 2010 | 2025 |            |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (1919) | CTACTGG-----GAGACTGAGGCA--GGA GA ATGGCT-TGAA CCTGTG-AGCTGGGATCGTGCCACTGCA--CT     |      |      |      |      |      |      |      |            |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (1798) | CTAGGTGGTCTTTGAGAAATACCGCTATGGA TC AAGCCTGTCTC CCTGTGCACTGCGGGCATGCGCAGCGTCC      |      |      |      |      |      |      |      |            |
|                                                       |        |                                                                                   |      |      |      |      |      |      |      | Section 28 |
|                                                       | (2026) | 2026                                                                              | 2040 | 2050 | 2060 | 2070 | 2080 | 2090 | 2100 |            |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (1983) | CTAGCCG--GGGCGACAGAGCGAGA-----CTCTGTCTCAAAAAA-AA--AAAAAAAAAAAAACCTCATCGCT         |      |      |      |      |      |      |      |            |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (1873) | CAAAACCAAGGACGT CAGTACGA AA AATGTA CTGAGTATGTAAA GCATAGTCAATATCAATATAGAAGCATAGAT  |      |      |      |      |      |      |      |            |

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|                                                                                                               |        |            |           |         |          |       |           |            |               |         |       |       |      |       |       |       |      |      |         |         |      |      |       |      |
|---------------------------------------------------------------------------------------------------------------|--------|------------|-----------|---------|----------|-------|-----------|------------|---------------|---------|-------|-------|------|-------|-------|-------|------|------|---------|---------|------|------|-------|------|
|                                                                                                               |        | Section 29 |           |         |          |       |           |            |               |         |       |       |      |       |       |       |      |      |         |         |      |      |       |      |
| Homo sapiens chromosome 17 NC_000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (2101) | 2101       | 2110      | 2120    | 2130     | 2140  | 2150      | 2160       | 2175          |         |       |       |      |       |       |       |      |      |         |         |      |      |       |      |
|                                                                                                               | (2047) | GTTGTGA    | AGGATGAAT | -----   | GGATGGGA | TCTGG | ANGT      | --CACTGTGG | TAAACACAAATCT | TGGAAC  | CACAG | AGT   |      |       |       |       |      |      |         |         |      |      |       |      |
|                                                                                                               | (1948) | AGCAAC     | ATAAGAAAT | AACATA  | GGATGGGA | AA    | TGGCAATAT | CATC       | GTCA          | TATG    | CAC   | TTACT | TG   | CCTTT | CATAG | ---   |      |      |         |         |      |      |       |      |
|                                                                                                               |        | Section 30 |           |         |          |       |           |            |               |         |       |       |      |       |       |       |      |      |         |         |      |      |       |      |
| Homo sapiens chromosome 17 NC_000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (2176) | 2176       | 2190      | 2200    | 2210     | 2220  | 2230      | 2240       | 2250          |         |       |       |      |       |       |       |      |      |         |         |      |      |       |      |
|                                                                                                               | (2114) | GGCG       | TTTTCACAG | CGCC    | CCAG     | CC    | CCACC     | TG         | CAGGG         | CT      | TGGT  | TT    | TCC  | TGG   | CT    | G     | CCGG | AGG  | AAG     | CCCT    | TGA  | AAT  | A     |      |
|                                                                                                               | (2020) | GAAC       | TTTCC     | CTTG    | CTAATAG  | --    | GTA       | TTTGTG     | TACA          | TATA    | CAT   | CAC   | TAT  | TCC   | GTA   | CT    | C    | CACC | ATA     | ATA     | CCCG | GT   | -ACCA |      |
|                                                                                                               |        | Section 31 |           |         |          |       |           |            |               |         |       |       |      |       |       |       |      |      |         |         |      |      |       |      |
| Homo sapiens chromosome 17 NC_000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (2251) | 2251       | 2260      | 2270    | 2280     | 2290  | 2300      | 2310       | 2325          |         |       |       |      |       |       |       |      |      |         |         |      |      |       |      |
|                                                                                                               | (2189) | TGCCACA    | GCTGGT    | GCTGA   | ACCT     | TGCT  | TCAA      | TTA        | GCA           | ACA     | AGA   | ATCT  | GAA  | AG    | TGG   | AG    | CT   | GC   | T       | TGG     | CG   | GGGA | TAT   | TC   |
|                                                                                                               | (2091) | TATTTGT    | GCTCGT    | ATTCGTG | -        | TAC   | ATG       | CC         | TTA           | TTC     | ACA   | TTC   | AT   | ATAC  | AT    | GGTC  | AT   | AT   | TCAT    | TATT    | CG   | ---- | TAT   | TC   |
|                                                                                                               |        | Section 32 |           |         |          |       |           |            |               |         |       |       |      |       |       |       |      |      |         |         |      |      |       |      |
| Homo sapiens chromosome 17 NC_000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (2326) | 2326       | 2340      | 2350    | 2360     | 2370  | 2380      | 2390       | 2400          |         |       |       |      |       |       |       |      |      |         |         |      |      |       |      |
|                                                                                                               | (2264) | ATGC       | CA        | CCCACT  | TC       | GCCT  | GCATC     | TGT        | GGC           | TTTT    | ACG   | ACCT  | TCT  | CAC   | TAT   | CGAT  | CCC  | TG   | ACAC    | TC      | AGAA | ---  | GTGAT |      |
|                                                                                                               | (2161) | ATAT       | CA        | -----   | TAT      | GCA   | TAA       | TCA        | TGT           | CATACAC | ATA   | ACAT  | TTT  | TACA  | TAG   | CATA  | CCC  | GA   | ACAC    | GT      | AGGA | TCG  | GTG   | TT   |
|                                                                                                               |        | Section 33 |           |         |          |       |           |            |               |         |       |       |      |       |       |       |      |      |         |         |      |      |       |      |
| Homo sapiens chromosome 17 NC_000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (2401) | 2401       | 2410      | 2420    | 2430     | 2440  | 2450      | 2460       | 2475          |         |       |       |      |       |       |       |      |      |         |         |      |      |       |      |
|                                                                                                               | (2336) | TCTTC      | CTTA      | CGGT    | TTCCCG   | CAAAG | CAGT      | CACT       | GTATA         | AA      | CCTG  | AACC  | TTT  | GGA   | GTA   | AA    | CCT  | TC   | CCCACGG | GT      | CT   |      |       |      |
|                                                                                                               | (2231) | C          | CATAC     | ATAT    | CCTTAT   | AATAA | CATAC     | CCGAC      | CAC           | GTA     | GGAT  | CGGT  | A--- | TTT   | CAC   | GTA   | CC   | GAT  | TC      | ATATATA | GG   | CT   |       |      |
|                                                                                                               |        | Section 34 |           |         |          |       |           |            |               |         |       |       |      |       |       |       |      |      |         |         |      |      |       |      |
| Homo sapiens chromosome 17 NC_000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (2476) | 2476       | 2490      | 2500    | 2510     | 2520  | 2530      | 2540       | 2550          |         |       |       |      |       |       |       |      |      |         |         |      |      |       |      |
|                                                                                                               | (2411) | TAAG       | GAAGC     | TACAG   | ACC      | CACT  | CTAAA     | AGGG       | GAA           | TCTGT   | GTGT  | CA    | GAAT | CCAGT | --    | TG    | CAAT | GACT | TAG     | GG      | CAAC |      |       |      |
|                                                                                                               | (2303) | CGGT       | GATCA     | TACAT   | ACC      | TGGC  | CA        | ACC        | AAGG          | C--     | TCAGT | GT    | TACA | CGT   | AC    | CTG   | CCCC | TAC  | CAAG    | GCT     | CAGT | GT   | TGT   |      |
|                                                                                                               |        | Section 35 |           |         |          |       |           |            |               |         |       |       |      |       |       |       |      |      |         |         |      |      |       |      |
| Homo sapiens chromosome 17 NC_000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (2551) | 2551       | 2560      | 2570    | 2580     | 2590  | 2600      | 2610       | 2625          |         |       |       |      |       |       |       |      |      |         |         |      |      |       |      |
|                                                                                                               | (2484) | CC         | ---       | CTCG    | CTG      | GA    | CTTT      | GTCT       | CT            | GCCC    | CAA   | AGG   | TAAG | CAGC  | TG    | CTAAG | AGAA | CCC  | -       | AC      | CTT  | CT   | CC    | GAG  |
|                                                                                                               | (2376) | CC         | ATA       | CC      | CAA      | CTG   | CA        | GTGGT      | TGG           | GG      | CGC   | GTTA  | CGT  | AAA   | TATA  | CA--  | TAC  | ATA  | TACAT   | CTAT    | AC   | ATA  | TACT  | ACCG |

Homo sapiens chromosome 17 vs. Lycium barbarum isolate Lr01 chromosome 6

|                                                       |        |                                                                                     |      |      |      |      |      |      |           |
|-------------------------------------------------------|--------|-------------------------------------------------------------------------------------|------|------|------|------|------|------|-----------|
|                                                       |        | Section 36                                                                          |      |      |      |      |      |      |           |
|                                                       |        | (2626)                                                                              | 2626 | 2640 | 2650 | 2660 | 2670 | 2680 | 2690 2700 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (2555) | GCCATC-ATGATACATGGAGAGAAATCCTGCCACCTCC-CACATTCAGGTCGGCCACATTCATCCACCCCACCCC         |      |      |      |      |      |      |           |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (2449) | GCCATATAAGCTCGGTGTTCCATAAATAGTCATACATATAACAAAT-AGCTCATAAGCATCTTTAATTTTAACCCC        |      |      |      |      |      |      |           |
|                                                       |        | Section 37                                                                          |      |      |      |      |      |      |           |
|                                                       |        | (2701)                                                                              | 2701 | 2710 | 2720 | 2730 | 2740 | 2750 | 2760 2775 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (2628) | GACCCC TAAGGGAGA CTCTGGCAGCGTTCC CAGAGA AGCCTTGAGCCTGGG ACC TGC TGGGTTT AAGAGGCTTC  |      |      |      |      |      |      |           |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (2523) | AT---- TATCAT AATCGTCATCGTTA TTATCA TTATAGCCATCATCAAT-- ACCAT-TATCAC TATCATCAT      |      |      |      |      |      |      |           |
|                                                       |        | Section 38                                                                          |      |      |      |      |      |      |           |
|                                                       |        | (2776)                                                                              | 2776 | 2790 | 2800 | 2810 | 2820 | 2830 | 2840 2850 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (2703) | ACAC TTGGC CATTCTTCA AAGGAGAC --- CCGTGCGT GATTCTCTT GTTTC TCCCAAC CAGCTTTC TCAGGCT |      |      |      |      |      |      |           |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (2591) | TCAT TT CATCTAC-CTTAATAGGCCTAC TCGCCA TCGGAGAACTTAGTACAA TCGTAGGGA----- TCAGAA      |      |      |      |      |      |      |           |
|                                                       |        | Section 39                                                                          |      |      |      |      |      |      |           |
|                                                       |        | (2851)                                                                              | 2851 | 2860 | 2870 | 2880 | 2890 | 2900 | 2910 2925 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (2775) | TCAGAGGAC TCGGCTCCCTGGAGGGAGGA AATGGGC AA GAATG TCCA CAGCAA GGTA GCGATCT GAGGATTCA  |      |      |      |      |      |      |           |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (2660) | TCG----- TGAGCTTACAAGCTC GGAAGATCA---- AA TCAT TCAA AGACAA CATAC TCGTATAGAGGATTTA   |      |      |      |      |      |      |           |
|                                                       |        | Section 40                                                                          |      |      |      |      |      |      |           |
|                                                       |        | (2926)                                                                              | 2926 | 2940 | 2950 | 2960 | 2970 | 2980 | 2990 3000 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (2850) | CCCTCCGTCCAGGGCCAA GTCA AACCAGGAGAGACGGTGCCAGGGCTGCAGGA GGGATCTGCCTCTGCACGGT        |      |      |      |      |      |      |           |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (2725) | GA----- TGTTTGGCCAAAG-- AACCATGCCTTATGAAA GAAGGGTTAGCCTTACATACCTTTCTGTGCACTAT       |      |      |      |      |      |      |           |
|                                                       |        | Section 41                                                                          |      |      |      |      |      |      |           |
|                                                       |        | (3001)                                                                              | 3001 | 3010 | 3020 | 3030 | 3040 | 3050 | 3060 3075 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (2925) | CATCCAAATGAGCTTCTTGGCTGCCGGAAGC CAAGAGGATGTGACAGATGCTACATCTCTGGGGGTCTCAAACTC        |      |      |      |      |      |      |           |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (2793) | TCTACACTTGCGCGTTCTC---- CTCTAA TGCTAGCGTTCTTATCTTCATTGAAGTCATACTATCATTAGAAATTG      |      |      |      |      |      |      |           |
|                                                       |        | Section 42                                                                          |      |      |      |      |      |      |           |
|                                                       |        | (3076)                                                                              | 3076 | 3090 | 3100 | 3110 | 3120 | 3130 | 3140 3150 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (3000) | CTGGGACTCAGCTCCCAAGCTA-- CCAGGTATCC TCACTGCTCACCCTGATAGAGCACAGGAC CACAAGCAAAA       |      |      |      |      |      |      |           |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (2864) | ATAGCTAGCATATATGACTAAAGCTAGAGAAAA TC GGACAGCATCTCTCCATAACGTATCTCAACTCCCAAAACG       |      |      |      |      |      |      |           |

Homo sapiens chromosome 17 vs. Lycium barbarum isolate Lr01 chromosome 6

|                                                                                                               |        |            |           |          |           |           |             |             |        |         |                          |           |         |          |          |              |       |
|---------------------------------------------------------------------------------------------------------------|--------|------------|-----------|----------|-----------|-----------|-------------|-------------|--------|---------|--------------------------|-----------|---------|----------|----------|--------------|-------|
|                                                                                                               |        | Section 43 |           |          |           |           |             |             |        |         |                          |           |         |          |          |              |       |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (3151) | 3151       | 3160      | 3170     | 3180      | 3190      | 3200        | 3210        | 3225   |         |                          |           |         |          |          |              |       |
|                                                                                                               | (3073) | CAAC       | TTT       | TGTGA    | TCAAGGA   | CAGCAG    | AGGCC       | AGGGTGG     | ATGAGG | TC      | CAGAGATGCTGCTTTATTTCTTAC | GGGG      |         |          |          |              |       |
|                                                                                                               | (2939) | TC         | AATAA     | TAAAT    | TCA       | TG-ATGC   | CATAACAAT   | AGTCATT     | ACTCAT | TC      | ACATTATCCATATTTCTAGA     | CTTACATTC |         |          |          |              |       |
|                                                                                                               |        | Section 44 |           |          |           |           |             |             |        |         |                          |           |         |          |          |              |       |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (3226) | 3226       | 3240      | 3250     | 3260      | 3270      | 3280        | 3290        | 3300   |         |                          |           |         |          |          |              |       |
|                                                                                                               | (3148) | TGA        | TCGCATTTC | AGGC     | TGGTAA    | CATCACA   | TAAAC       | AGTCTAAT    | TCG    | CCAAC   | -TAGTTGTACGCTCT          | TGAAC     | TACA    | AG       |          |              |       |
|                                                                                                               | (3013) | AAT        | TCATCCACA | ACCA     | TGGCCAT   | AACACA    | CACG        | ACGTCTAT    | TTA    | CATAC   | ATTGTT                   | CATCTCAT  | GTCTCT  | CAACA    | TC       |              |       |
|                                                                                                               |        | Section 45 |           |          |           |           |             |             |        |         |                          |           |         |          |          |              |       |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (3301) | 3301       | 3310      | 3320     | 3330      | 3340      | 3350        | 3360        | 3375   |         |                          |           |         |          |          |              |       |
|                                                                                                               | (3222) | TCAACA     | ATC       | CAAT--   | T         | CAGCA     | AGGA        | ACAA        | CAGTGT | CAAC    | AGCTCA                   | TAGCGGG   | TGGGGAC | CGG      | ATTTC    | C-CAAT       |       |
|                                                                                                               | (3088) | ATTTAT     | ATC       | GTATCTA  | CAT       | CA        | CAAT        | ACAT        | CAAGAC | CCAT    | AGCTCA                   | A         | TCCATAC | TATTTCT  | CAA      | AATGACACTATT |       |
|                                                                                                               |        | Section 46 |           |          |           |           |             |             |        |         |                          |           |         |          |          |              |       |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (3376) | 3376       | 3390      | 3400     | 3410      | 3420      | 3430        | 3440        | 3450   |         |                          |           |         |          |          |              |       |
|                                                                                                               | (3294) | CAAT       | GGTCT     | TGGCTGG  | CAGAGT    | GTCT      | GAGTGGGG    | CCTG        | AGTGA  | ATGAGGC | TAAA                     | CGCTTGG   | CCGAAGC | CGT      | C--      | C            |       |
|                                                                                                               | (3163) | CC         | ATATTCAT  | TGACT    | --CATTTT  | TTCT      | ATACTCTT    | CTAC        | AATCC  | A       | GTATTTC                  | CAA-CTCTT | AAC     | TACCTT   | CAAC     | CAAC         |       |
|                                                                                                               |        | Section 47 |           |          |           |           |             |             |        |         |                          |           |         |          |          |              |       |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (3451) | 3451       | 3460      | 3470     | 3480      | 3490      | 3500        | 3510        | 3525   |         |                          |           |         |          |          |              |       |
|                                                                                                               | (3367) | AT         | CCCCA     | -ATCCTGA | GAAACAGAG | TTGTCT    | TGTTTCTCTTT | CGG         | GGT    | CAGGT   | CA                       | G---      | CC      | -CAAGTAA | GAGGC    | CAA          |       |
|                                                                                                               | (3235) | AT         | AGAA      | ATATCAT  | TGA       | ATCTTACC  | TTAAA       | TGTTGTAGGAA | CAG    | GCTT    | AGTTGA                   | TAATA     | CTC     | CACTTT   | GAG--    | CAA          |       |
|                                                                                                               |        | Section 48 |           |          |           |           |             |             |        |         |                          |           |         |          |          |              |       |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (3526) | 3526       | 3540      | 3550     | 3560      | 3570      | 3580        | 3590        | 3600   |         |                          |           |         |          |          |              |       |
|                                                                                                               | (3437) | CA         | ACCTACC   | TGGGC    | -CGAT     | ----      | ACAAGGC     | GAC         | ACAA   | GCCCA   | CCCG                     | -TGGCTGA  | GCGC    | CCCT     | CCA--    | CCCT         | CAC   |
|                                                                                                               | (3308) | A          | ACCTAGT   | TTATCT   | CCAT      | TTGG      | ATTTCTT     | GAC         | CTTG   | GATGAT  | CTTGA                    | TGGT      | TTTCTT  | AGCT     | TGATT    | CCCT         | TGA   |
|                                                                                                               |        | Section 49 |           |          |           |           |             |             |        |         |                          |           |         |          |          |              |       |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (3601) | 3601       | 3610      | 3620     | 3630      | 3640      | 3650        | 3660        | 3675   |         |                          |           |         |          |          |              |       |
|                                                                                                               | (3504) | TCC        | ATCCC     | G        | GGGC      | ACAGCTCCT | -TCC        | GCTGG       | TGCTTA | -GGAA   | ---                      | AAGGC     | GAGGCT  | TCTGG    | TA       | ATTTCTC      | ATCTT |
|                                                                                                               | (3383) | TTT        | ATGTT     | GTTGAT   | CACTAAAT  | TA        | TCC         | TTGAAT      | TTCTTA | GGAA    | TAT                      | ATGTA     | GAGAGAT | GTTC     | TAGAGAGA | -AGGGG       |       |

Homo sapiens chromosome 17 vs. Lycium barbarum isolate Lr01 chromosome 6

|                                                      |        |            |     |      |      |       |     |       |     |      |     |      |        |      |      |      |       |     |     |    |     |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------------------------------|--------|------------|-----|------|------|-------|-----|-------|-----|------|-----|------|--------|------|------|------|-------|-----|-----|----|-----|---|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| Homo sapiens chromosome 17 NC_000017.11 region fr... | (3676) | 3676       |     | 3690 |      | 3700  |     | 3710  |     | 3720 |     | 3730 |        | 3740 |      | 3750 |       |     |     |    |     |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                      | (3574) | TGT        | AGT | TCT  | GCTT | TGAAA | A   | GAAA  | AGG | GGCC | GG  | GAC  | GGCGGC | T    | CAGC | CTGT | AATCC | CAG | CAC | T  | TTG | G | GAGG | C |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                      | (3457) | TGT        | GA  | T    | TA   | G     | AAG | TGAAA | T   | GAAA | TAA | G    | CC     | TT   | GG   | T    | C     | C   | TT  | AT | T   | T | A    | T | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A | T | A |

Homo sapiens chromosome 17 vs. Lycium barbarum isolate Lr01 chromosome 6

|                                                                                                               |        |            |        |      |          |         |         |      |        |       |        |
|---------------------------------------------------------------------------------------------------------------|--------|------------|--------|------|----------|---------|---------|------|--------|-------|--------|
|                                                                                                               |        | Section 57 |        |      |          |         |         |      |        |       |        |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (4201) | 4201       | 4210   | 4220 | 4230     | 4240    | 4250    | 4260 | 4275   |       |        |
|                                                                                                               | (4073) | T          | TTCA   | GGAT | CGTGGG   | GAGC    | -----   | TG   | TTT    | G     | TAT    |
|                                                                                                               | (3967) | G          | TTCA   | TTCA | CTTGC    | TAC     | CAACGGA | AT   | TTT    | T     | TCC    |
|                                                                                                               |        | Section 58 |        |      |          |         |         |      |        |       |        |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (4276) | 4276       | 4290   | 4300 | 4310     | 4320    | 4330    | 4340 | 4350   |       |        |
|                                                                                                               | (4134) | TC         | ACCCAA | AAAA | CCTCT    | ACAG    | CTTC    | CT   | TTT    | GC    | ATTT   |
|                                                                                                               | (4042) | GA         | ATGTTT | AA   | GTCT     | CGGG    | AA--    | TT   | CTA    | TAAAA | ATTT   |
|                                                                                                               |        | Section 59 |        |      |          |         |         |      |        |       |        |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (4351) | 4351       | 4360   | 4370 | 4380     | 4390    | 4400    | 4410 | 4425   |       |        |
|                                                                                                               | (4209) | T          | TCTCT  | CAG  | ACCGAG   | GAAG    | ACTG    | TG   | TTG    | CTT   | AGAAA  |
|                                                                                                               | (4115) | T          | CACAA  | CA-  | ACCCATA  | ATAC    | CGA     | TG   | CCCT   | CAC   | AGGGCC |
|                                                                                                               |        | Section 60 |        |      |          |         |         |      |        |       |        |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (4426) | 4426       | 4440   | 4450 | 4460     | 4470    | 4480    | 4490 | 4500   |       |        |
|                                                                                                               | (4281) | TT         | CTCAGC | T    | AGCC     | TCCACGC | AGGT    | GT   | CA     | CC    | GGC    |
|                                                                                                               | (4189) | AAAA       | AGCA   | T    | AAAG     | TGAGTTA | AGG     | GT   | AC     | CC    | GGT    |
|                                                                                                               |        | Section 61 |        |      |          |         |         |      |        |       |        |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (4501) | 4501       | 4510   | 4520 | 4530     | 4540    | 4550    | 4560 | 4575   |       |        |
|                                                                                                               | (4352) | CGT        | --     | CAG  | AGTCAG   | AGCC    | CGAGC   | GG-- | GA     | CCC   | ACC    |
|                                                                                                               | (4264) | CGT        | GA     | CAAA | AGTG     | GTAT    | CA      | GAGC | AG     | TTCA  | GT     |
|                                                                                                               |        | Section 62 |        |      |          |         |         |      |        |       |        |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (4576) | 4576       | 4590   | 4600 | 4610     | 4620    | 4630    | 4640 | 4650   |       |        |
|                                                                                                               | (4421) | AT         | CCT    | T    | CACCAAAA | GCTAG   | TG      | AC   | TTT    | TGCG  | AAA    |
|                                                                                                               | (4337) | AT         | GGG    | T    | GTGTT--  | GCAC    | GCC     | AC   | ACT    | TAT   | AAA    |
|                                                                                                               |        | Section 63 |        |      |          |         |         |      |        |       |        |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (4651) | 4651       | 4660   | 4670 | 4680     | 4690    | 4700    | 4710 | 4725   |       |        |
|                                                                                                               | (4495) | CT         | CCCA   | AA   | CAGAGT   | CTCA    | AA      | CA   | CGGTG  | GA    | CTCT   |
|                                                                                                               | (4407) | CT         | TGAT   | AA   | GAATCG   | TG      | CGAT    | AG   | AGCTAT | GA    | TGTGAG |

Homo sapiens chromosome 17 vs. Lycium barbarum isolate Lr01 chromosome 6

|                                                       |        |                                                                               |      |      |      |      |      |      |           |
|-------------------------------------------------------|--------|-------------------------------------------------------------------------------|------|------|------|------|------|------|-----------|
|                                                       |        | Section 64                                                                    |      |      |      |      |      |      |           |
|                                                       |        | (4726)                                                                        | 4726 | 4740 | 4750 | 4760 | 4770 | 4780 | 4790 4800 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (4568) | GTTTACTGCA-GAAACAAGGCACAGAGAGGCTGGACACTTGGGTGGTGGAATTCGGGGCACGCTGG-GTAAG      |      |      |      |      |      |      |           |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (4482) | ATTCTAGAAAGAGAAAGCTACAGCTGCCCAAAGGGTAGACGGTGGCAGAAAGCGGGCTGAAAAAAGCAACC       |      |      |      |      |      |      |           |
|                                                       |        | Section 65                                                                    |      |      |      |      |      |      |           |
|                                                       |        | (4801)                                                                        | 4801 | 4810 | 4820 | 4830 | 4840 | 4850 | 4860 4875 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (4641) | TCCAAGGGCGGAAGGAAGGAGGGGAGAGAGAGAGCTGAGTTTTTAAATTAAGGCTCTCAGGAGGGGAGGCC-AC    |      |      |      |      |      |      |           |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (4557) | GCCACCGGTAGTAG--AGAAAGGTGAGTCCCAGAGTGGGCTCAATCCCAATCTCTCTC-----GTTCAAGTGGCTAT |      |      |      |      |      |      |           |
|                                                       |        | Section 66                                                                    |      |      |      |      |      |      |           |
|                                                       |        | (4876)                                                                        | 4876 | 4890 | 4900 | 4910 | 4920 | 4930 | 4940 4950 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (4715) | GCTAGATGGGCTCCGGTTTTGAGCTTCTCTGTCTAGGAAGTCATTACAAAGGCCTCCAC--GATGGCGGGGGTGAT  |      |      |      |      |      |      |           |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (4626) | ATTAGAGGAGCGGTGAGG--GAGCTCAGCCCAGCTCCAACACCTCCAGCTCCTCCACCGGATGCTTCGGGCCAA    |      |      |      |      |      |      |           |
|                                                       |        | Section 67                                                                    |      |      |      |      |      |      |           |
|                                                       |        | (4951)                                                                        | 4951 | 4960 | 4970 | 4980 | 4990 | 5000 | 5010 5025 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (4788) | CTCCTCCACGT--CCATCACGTACTTGGCCCGGGCTGACATGTCCAGGATGGTGAG-CAAAG----GGGCAAGCCT  |      |      |      |      |      |      |           |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (4699) | TATGTGAAGGAGGCCATTAAATTGCTGACTCAATTGGTTACGGCCAGACTCAGAGGCAAAGTTCAAGGCAAGGT    |      |      |      |      |      |      |           |
|                                                       |        | Section 68                                                                    |      |      |      |      |      |      |           |
|                                                       |        | (5026)                                                                        | 5026 | 5040 | 5050 | 5060 | 5070 | 5080 | 5090 5100 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (4856) | C--AGGCAGGTTGGTGTAACTCTGCAGGGAGTCAGTCACTGT----CATCCTGAAAGCC----GTC--AGGAGGGGA |      |      |      |      |      |      |           |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (4774) | GATAGGGCTGTTAGTGCAGGGCCCGTGACTTCATTACTTTAAACCTCCGGAATTCCTTTGGGTCAGAGCCGGAA    |      |      |      |      |      |      |           |
|                                                       |        | Section 69                                                                    |      |      |      |      |      |      |           |
|                                                       |        | (5101)                                                                        | 5101 | 5110 | 5120 | 5130 | 5140 | 5150 | 5160 5175 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (4918) | GAGAAACAAGAAGTT--TTAAAGAAAGGAGGGGAGAGTCCCTGGGCCCAAGTCTCC----CAGGTGTGGTA       |      |      |      |      |      |      |           |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (4849) | GAGGACCCTCAGGATTTCAATTGATGGTATGTTGAGGACGCTTCAATTGATATAATGCTCTGGACACCGAATCGGTG |      |      |      |      |      |      |           |
|                                                       |        | Section 70                                                                    |      |      |      |      |      |      |           |
|                                                       |        | (5176)                                                                        | 5176 | 5190 | 5200 | 5210 | 5220 | 5230 | 5240 5250 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (4987) | GCTCCCGCACCTTGAAGAGCCGGCGTT-TCCAGCAGAGGGCTCCCAAGCCTGGGAAGGA-----GGGAAGCC-     |      |      |      |      |      |      |           |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (4924) | GTGTTAGCGTCATATAGATTGAGAGATGTCTCGATCC-AGTGGTATACGGTTTGGATGGCTTCACGGGGAGCCAA   |      |      |      |      |      |      |           |

Homo sapiens chromosome 17 vs. Lycium barbarum isolate Lr01 chromosome 6

|                                                       |        |            |      |      |      |      |      |      |      |      |    |
|-------------------------------------------------------|--------|------------|------|------|------|------|------|------|------|------|----|
|                                                       |        | Section 71 |      |      |      |      |      |      |      |      |    |
| Homo sapiens chromosome 17 NC 000017.11 region fr...  | (5251) | 5251       | 5260 | 5270 | 5280 | 5290 | 5300 | 5310 | 5325 |      |    |
|                                                       | (5054) | TG         | CC   | CT   | GC   | CC   | TT   | CC   | GA   | GG   | AG |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (4998) | TG         | CA   | CT   | CC   | CC   | CG   | TA   | GG   | CA   | AG |
|                                                       |        | Section 72 |      |      |      |      |      |      |      |      |    |
| Homo sapiens chromosome 17 NC 000017.11 region fr...  | (5326) | 5326       | 5340 | 5350 | 5360 | 5370 | 5380 | 5390 | 5400 |      |    |
|                                                       | (5125) | TA         | AG   | TC   | CG   | TCT  | GT   | AT   | TT   | AA   | TT |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (5073) | TA         | AG   | CG   | CG   | TA   | AG   | TC   | TT   | AA   | TT |
|                                                       |        | Section 73 |      |      |      |      |      |      |      |      |    |
| Homo sapiens chromosome 17 NC 000017.11 region fr...  | (5401) | 5401       | 5410 | 5420 | 5430 | 5440 | 5450 | 5460 | 5475 |      |    |
|                                                       | (5198) | AA         | AT   | GC   | AT   | TC   | TT   | TT   | TT   | TT   | TT |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (5144) | AA         | AT   | GC   | AT   | TC   | TT   | TT   | TT   | TT   | TT |
|                                                       |        | Section 74 |      |      |      |      |      |      |      |      |    |
| Homo sapiens chromosome 17 NC 000017.11 region fr...  | (5476) | 5476       | 5490 | 5500 | 5510 | 5520 | 5530 | 5540 | 5550 |      |    |
|                                                       | (5272) | GC         | AC   | GA   | TCT  | CG   | CT   | CA   | TG   | CA   | AG |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (5216) | GC         | AC   | GA   | TCT  | CG   | CT   | CA   | TG   | CA   | AG |
|                                                       |        | Section 75 |      |      |      |      |      |      |      |      |    |
| Homo sapiens chromosome 17 NC 000017.11 region fr...  | (5551) | 5551       | 5560 | 5570 | 5580 | 5590 | 5600 | 5610 | 5625 |      |    |
|                                                       | (5340) | GT         | AG   | CT   | TGG  | ACT  | AC   | AG   | GC   | CCCC | AC |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (5288) | GT         | AG   | CT   | TGG  | ACT  | AC   | AG   | GC   | CCCC | AC |
|                                                       |        | Section 76 |      |      |      |      |      |      |      |      |    |
| Homo sapiens chromosome 17 NC 000017.11 region fr...  | (5626) | 5626       | 5640 | 5650 | 5660 | 5670 | 5680 | 5690 | 5700 |      |    |
|                                                       | (5413) | GT         | GG   | TCA  | GG   | CT   | GG   | TCT  | CCA  | ACT  | CT |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (5363) | GT         | GG   | TCA  | GG   | CT   | GG   | TCT  | CCA  | ACT  | CT |
|                                                       |        | Section 77 |      |      |      |      |      |      |      |      |    |
| Homo sapiens chromosome 17 NC 000017.11 region fr...  | (5701) | 5701       | 5710 | 5720 | 5730 | 5740 | 5750 | 5760 | 5775 |      |    |
|                                                       | (5488) | GG         | CT   | AG   | CC   | AC   | CG   | TG   | CC   | AG   | CT |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (5425) | GG         | CT   | AG   | CC   | AC   | CG   | TG   | CC   | AG   | CT |

Homo sapiens chromosome 17 vs. Lycium barbarum isolate Lr01 chromosome 6

|                                                       |        |            |         |         |          |           |          |            |        |                       |           |          |          |          |         |          |         |         |         |      |
|-------------------------------------------------------|--------|------------|---------|---------|----------|-----------|----------|------------|--------|-----------------------|-----------|----------|----------|----------|---------|----------|---------|---------|---------|------|
|                                                       |        | Section 78 |         |         |          |           |          |            |        |                       |           |          |          |          |         |          |         |         |         |      |
|                                                       |        | (5776)     | 5776    | 5790    | 5800     | 5810      | 5820     | 5830       | 5840   | 5850                  |           |          |          |          |         |          |         |         |         |      |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (5561) | --         | TTTGCA  | GCCCCA  | CTGTGG   | TTA--     | TCTGAG   | GCCAAATCTG | --     | GACTTCAACTCTGGAATGTTT | TTAAACA   | GAG      |          |          |         |          |         |         |         |      |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (5496) | AT         | TTTGTA  | -----   | AGTATGGC | TAAAGT    | TATAGATA | AAATATG    | TAA    | GAATGCTATT            | TAAAAA    | TAGAAC   | TTGT     | AAAATA   |         |          |         |         |         |      |
|                                                       |        | Section 79 |         |         |          |           |          |            |        |                       |           |          |          |          |         |          |         |         |         |      |
|                                                       |        | (5851)     | 5851    | 5860    | 5870     | 5880      | 5890     | 5900       | 5910   | 5925                  |           |          |          |          |         |          |         |         |         |      |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (5629) | ACA        | GCTCGC  | TGTGT   | TCCA-AC  | TCCACCCCT | GTGG     | TTTCAG     | GCA    | GGACAGGAGC            | TGCACA    | -GCCAGCC | AGTT     | CAG      |         |          |         |         |         |      |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (5566) | ATA        | AATAATT | TGTAT   | AAAAAG   | AGTAC     | TTTTAAC  | GT         | TATTTT | T--G                  | AAAAATAC  | GACT     | TATAAT   | GTTGTTA  | AGATTTT |          |         |         |         |      |
|                                                       |        | Section 80 |         |         |          |           |          |            |        |                       |           |          |          |          |         |          |         |         |         |      |
|                                                       |        | (5926)     | 5926    | 5940    | 5950     | 5960      | 5970     | 5980       | 5990   | 6000                  |           |          |          |          |         |          |         |         |         |      |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (5702) | AAG        | ACAGCGC | TGCTTAA | GCAC     | TGTGG     | AAGCTT   | ACGCT      | GCCTC  | ACTACT                | TATCTGAGA | AAAG     | AAGCTGGC | ACTT     | TAT     |          |         |         |         |      |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (5639) | TAA        | ACGAAAG | TGTAATA | AATA     | TGTTT     | AAGATA   | ATACT      | TGTAG  | AAAATG                | TAGT      | GATTTT   | AA       | TAGAGTTT | AGTT    | ATA      |         |         |         |      |
|                                                       |        | Section 81 |         |         |          |           |          |            |        |                       |           |          |          |          |         |          |         |         |         |      |
|                                                       |        | (6001)     | 6001    | 6010    | 6020     | 6030      | 6040     | 6050       | 6060   | 6075                  |           |          |          |          |         |          |         |         |         |      |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (5777) | CC         | TACAT   | TCCCAG  | CAGCT    | GTCCTG    | GTGAAT   | TTC        | CCTAA  | TAGC                  | AGACATAG  | CCTCAT   | GCAGAC   | CAAG     | GCAAACA |          |         |         |         |      |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (5714) | AA         | TAAAT   | CAAAAG  | AAACGG   | AATGAG    | TAA      | TATTC      | ATATG  | TATC                  | CCGAATAG  | GA--     | ATTGCG   | CCA      | CTAGC   | -----    |         |         |         |      |
|                                                       |        | Section 82 |         |         |          |           |          |            |        |                       |           |          |          |          |         |          |         |         |         |      |
|                                                       |        | (6076)     | 6076    | 6090    | 6100     | 6110      | 6120     | 6130       | 6140   | 6150                  |           |          |          |          |         |          |         |         |         |      |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (5852) | CAG        | AAATCC  | AAAGACA | AGGAG    | AAAG      | GATTTG   | TAAG       | GGAGC  | TAC                   | TTTTTT    | TTTTT    | TGGAGAT  | AGAGT    | CTCT    | TTTC     | TGT     |         |         |      |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (5781) | ---        | AAATTA  | AAATG   | TATTTGT  | AAAG      | TTA      | TTGTAAG    | ATTAA  | TA                    | -TTAA     | TGTTTT   | AACAAT   | ---GTG   | TATTTT  | CAAG     |         |         |         |      |
|                                                       |        | Section 83 |         |         |          |           |          |            |        |                       |           |          |          |          |         |          |         |         |         |      |
|                                                       |        | (6151)     | 6151    | 6160    | 6170     | 6180      | 6190     | 6200       | 6210   | 6225                  |           |          |          |          |         |          |         |         |         |      |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (5927) | T          | CCC     | CAGCTGG | AGTGAA   | GTGGCGC   | AGTC     | ATAGCT     | CAC    | TGCAG                 | CCTC      | CACTCCT  | TGGGC    | TCAAGCA  | AATCCT  | CCCA     |         |         |         |      |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (5849) | C          | GTTCTA  | -----   | AGATAA   | AGAGTGA   | AT-AT    | TGATTCT    | TTTTG  | ACTCA                 | AAATATA   | TAG--    | TCA      | TGCTAT   | T       | AAAA     |         |         |         |      |
|                                                       |        | Section 84 |         |         |          |           |          |            |        |                       |           |          |          |          |         |          |         |         |         |      |
|                                                       |        | (6226)     | 6226    | 6240    | 6250     | 6260      | 6270     | 6280       | 6290   | 6300                  |           |          |          |          |         |          |         |         |         |      |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (6002) | CC         | T       | CAG     | CC       | TCC       | TGAG     | TAGCTGG    | GACT   | CTAG                  | CCAT      | ATG      | CAG      | CACCATG  | CCTGG   | CTAATTTT | TGTACAT | TTTTTTG | GAGA    |      |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (5915) | AT         | TATT    | CC      | AAATAA   | T         | GT       | TATAG      | TG     | CTA                   | TATA      | AAGT     | AG       | TTTAGAA  | CA      | TAACTA   | GAAGT   | -GAATGT | AAATTTG | TGGA |

Homo sapiens chromosome 17 vs. Lycium barbarum isolate Lr01 chromosome 6

|                                                                                                               |        |            |           |           |              |            |            |             |           |           |           |
|---------------------------------------------------------------------------------------------------------------|--------|------------|-----------|-----------|--------------|------------|------------|-------------|-----------|-----------|-----------|
|                                                                                                               |        | Section 85 |           |           |              |            |            |             |           |           |           |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (6301) | 6301       | 6310      | 6320      | 6330         | 6340       | 6350       | 6360        |           |           |           |
|                                                                                                               | (6077) | CAC        | AAAGT     | CCAGCCC   | AGCCAGAC     | GGGAGCCAGC | AAAC       | TGCCTT      | GGAGCAG   | CCCTCGTC  | CACTCTGAA |
|                                                                                                               | (5989) | ATT        | AACTAC    | CCA       | T--AACTAA    | CTAA       | CCCTTAA    | TGCTAA      | GGTTTATC  | TAAATTA   | CAAAACAAA |
|                                                                                                               |        | Section 86 |           |           |              |            |            |             |           |           |           |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (6376) | 6376       |           |           | 6390         | 6400       | 6410       | 6420        | 6430      | 6440      | 6450      |
|                                                                                                               | (6151) | CCTCC      | CTCC      | CCTGTG    | AAACA        | GACAGCG    | ACTACGT    | TCCCAGCCAG  | AGGAGCG   | AAAGGAG   | ACAGCCCA  |
|                                                                                                               | (6061) | TTAGT      | CATA      | CAAGGT    | AAACA        | GAAATAC    | AACAAAA    | TAAGATAGGAG | GAAGAAG   | GAGAAATG  | GACAGTCCA |
|                                                                                                               |        | Section 87 |           |           |              |            |            |             |           |           |           |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (6451) | 6451       | 6460      | 6470      | 6480         | 6490       | 6500       | 6510        |           |           |           |
|                                                                                                               | (6226) | --G        | AAATA     | TGC       | ----GGCTCTGT | GCGTGGC    | GTACAGAA   | AAACCTG     | CAAAATG   | CTCTTC    | CAGACTTG  |
|                                                                                                               | (6136) | AT         | GACTGC    | TGCTGCAG  | CTATT        | TTGCTATT   | GGCTTC     | AGCCAGAA    | GTCCTTC   | TTGTTG    | TTGTTGTTG |
|                                                                                                               |        | Section 88 |           |           |              |            |            |             |           |           |           |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (6526) | 6526       |           |           | 6540         | 6550       | 6560       | 6570        | 6580      | 6590      | 6600      |
|                                                                                                               | (6294) | AA         | GGC       | GCC       | CCCCGCC      | CGTGCCCG   | GCCCTGCTGT | GCTGCAGCCA  | TCCTTCTCA | GAGCATTCT | GAGGGTTGG |
|                                                                                                               | (6208) | TG         | GGCAGGC   | T--GGA    | CAGAAGA      | GCCATGT    | TGGCT----- | TTTATCC     | CAACACCA  | ACACGGAGG | AAGACG    |
|                                                                                                               |        | Section 89 |           |           |              |            |            |             |           |           |           |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (6601) | 6601       | 6610      | 6620      | 6630         | 6640       | 6650       | 6660        |           |           |           |
|                                                                                                               | (6369) | AGTC       | ACTGCATG  | CGCGCAGCC | TCCCTGG      | GGCTGGG    | CTTGGT     | GTGCA       | GTGCC     | AGT--G    | CAACCGAGG |
|                                                                                                               | (6274) | AGTC       | CGAGGGACT | CGTATGCGA | TAGTCAT      | GCA        | TAAACAC    | GAAAGAAA    | ACGATT    | AGTATACA  | AATCAATAA |
|                                                                                                               |        | Section 90 |           |           |              |            |            |             |           |           |           |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (6676) | 6676       |           |           | 6690         | 6700       | 6710       | 6720        | 6730      | 6740      | 6750      |
|                                                                                                               | (6441) | GCC        | TGTGAAC   | CTCTTTGCT | TCCCCTC      | CACCC      | CCGGGCT    | GAGCAGGT    | GAC       | TGGA      | GCGCTGG   |
|                                                                                                               | (6349) | G--        | TTTAAAC   | ATGTAAAA  | TATAACT      | CAAAA      | CAAATC     | GATAGATT    | A-TGTATA  | CAC-TGTAT | ATAGTGGAG |
|                                                                                                               |        | Section 91 |           |           |              |            |            |             |           |           |           |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (6751) | 6751       | 6760      | 6770      | 6780         | 6790       | 6800       | 6810        |           |           |           |
|                                                                                                               | (6516) | CT         | GGGC      | TGGGC     | AGGGCCGGGG   | GCTGAGGT   | GATGAA     | TGGGTG      | GCACA     | GG-TGT    | CTGGCTG   |
|                                                                                                               | (6418) | AT         | CTCA      | TGTATAC   | ACATTTCAT    | GAA        | GAAAA      | GATTAA      | GGAAA     | GCACAT    | GAAATAT   |

Homo sapiens chromosome 17 vs. Lycium barbarum isolate Lr01 chromosome 6

|                                                       |        |            |        |          |        |       |        |         |           |
|-------------------------------------------------------|--------|------------|--------|----------|--------|-------|--------|---------|-----------|
|                                                       |        | Section 92 |        |          |        |       |        |         |           |
|                                                       |        | (6826)     | 6826   | 6840     | 6850   | 6860  | 6870   | 6880    | 6890 6900 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (6589) | CGTG       | CCTCT  | CCTGGGAT | CCAAAC | ACAGC | GTGA   | AATCAG  | CA        |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (6492) | CGC        | CTGA   | CCAATTTT | --ATGG | AAAGC | ACTT   | AAT--   | GTT       |
|                                                       |        | Section 93 |        |          |        |       |        |         |           |
|                                                       |        | (6901)     | 6901   | 6910     | 6920   | 6930  | 6940   | 6950    | 6960 6975 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (6664) | AT         | GGAGGG | CAGGGGG  | CGGCC  | TCCA  | AAACTG | TCTGT   | CA        |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (6558) | AT         | -----  | CAAGTAG  | AGCAT  | TATG  | AACTG  | ATTAAG  | CA        |
|                                                       |        | Section 94 |        |          |        |       |        |         |           |
|                                                       |        | (6976)     | 6976   | 6990     | 7000   | 7010  | 7020   | 7030    | 7040 7050 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (6738) | AG         | CATG   | -GAGGAG  | GCTCCT | --GGT | TGGA   | AGGAG   | CT        |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (6625) | AGA        | CATTT  | GTGGA    | AGCACT | TTCA  | GGATG  | CAAGA   | AAG       |
|                                                       |        | Section 95 |        |          |        |       |        |         |           |
|                                                       |        | (7051)     | 7051   | 7060     | 7070   | 7080  | 7090   | 7100    | 7110 7125 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (6810) | GCC        | CGTCT  | TGCAGG   | GTGCA  | AGG   | GTTC   | CAAGG   | CC        |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (6697) | TAA        | CATTT  | TAGAC    | AGT--  | AAGG  | CAAA   | ACAGAT  | TG        |
|                                                       |        | Section 96 |        |          |        |       |        |         |           |
|                                                       |        | (7126)     | 7126   | 7140     | 7150   | 7160  | 7170   | 7180    | 7190 7200 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (6885) | AAG        | CCCC   | ACCTTT   | CCACC  | CTGT  | GAAG   | AGTCT   | CC        |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (6763) | CAG        | TCAA   | ACAAC    | CTCT   | CCAG  | GTGCT  | -AGT--- | TAA       |
|                                                       |        | Section 97 |        |          |        |       |        |         |           |
|                                                       |        | (7201)     | 7201   | 7210     | 7220   | 7230  | 7240   | 7250    | 7260 7275 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (6959) | GGG        | TGAA   | ACAG     | ACGGGG | AGCGG | CA     | GCAAT   | TT        |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (6832) | GAC        | TAA    | CAAGA    | TATCC  | AAC   | CAGC   | GCAAT   | G         |
|                                                       |        | Section 98 |        |          |        |       |        |         |           |
|                                                       |        | (7276)     | 7276   | 7290     | 7300   | 7310  | 7320   | 7330    | 7340 7350 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (7026) | CAG        | --GT   | AAGC     | AGTAG  | CCC   | AGCC   | AGGA    | T         |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (6907) | CAG        | GA     | GTG      | TAA    | ATA   | ACCA   | TA      | CCC       |

Homo sapiens chromosome 17 vs. Lycium barbarum isolate Lr01 chromosome 6

|                                                      |        |                                                                               |                         |            |              |                   |             |                    |            |      |         |
|------------------------------------------------------|--------|-------------------------------------------------------------------------------|-------------------------|------------|--------------|-------------------|-------------|--------------------|------------|------|---------|
|                                                      |        | Section 99                                                                    |                         |            |              |                   |             |                    |            |      |         |
| Homo sapiens chromosome 17 NC_000017.11 region fr... | (7351) | 7351                                                                          | 7360                    | 7370       | 7380         | 7390              | 7400        | 7410               | 7425       |      |         |
|                                                      | (7099) | ACCCAGCATTTTGTAAAGACTCAAGGGCTTGGTTGTGACCCAGGAGGTGTGGATCACA                    | CTTTGCAAGCCACGGCCA      |            |              |                   |             |                    |            |      |         |
|                                                      | (6978) | ATTAAACAACTTG--ATGACAGCTTACCCTTTTCGGACTCAACAGAAACAGCTGTCA-TATAAAGTAATACCAA    |                         |            |              |                   |             |                    |            |      |         |
|                                                      |        | Section 100                                                                   |                         |            |              |                   |             |                    |            |      |         |
| Homo sapiens chromosome 17 NC_000017.11 region fr... | (7426) | 7426                                                                          | 7440                    | 7450       | 7460         | 7470              | 7480        | 7490               | 7500       |      |         |
|                                                      | (7174) | CTCTCCCCAGCCGCTCAAGCGGGAAAGCAGCTTGGGGACGGCTCCCTGCTGACCTTGAGGCTG               | CCGAGCATGGACGG          |            |              |                   |             |                    |            |      |         |
|                                                      | (7050) | ATGAAAAGATTT-CACATTATTCAAAGGA-CTTGGATACAAACACAAAGGGGAATG-GCATGTGTTTCAACCATAG  |                         |            |              |                   |             |                    |            |      |         |
|                                                      |        | Section 101                                                                   |                         |            |              |                   |             |                    |            |      |         |
| Homo sapiens chromosome 17 NC_000017.11 region fr... | (7501) | 7501                                                                          | 7510                    | 7520       | 7530         | 7540              | 7550        | 7560               | 7575       |      |         |
|                                                      | (7249) | GAAGAGGAAGCAGCAAGGAGGGGAATGGTTTCCATGGCGAATGCTTACCTTTCCTTGCCACATTTG            | TCTGTGGG                |            |              |                   |             |                    |            |      |         |
|                                                      | (7122) | GGGACTGATTCATCATACGAA-----TTTAAA---CACAAAGATCAATTAGAGTG--ACATATGCAAAATGAG     |                         |            |              |                   |             |                    |            |      |         |
|                                                      |        | Section 102                                                                   |                         |            |              |                   |             |                    |            |      |         |
| Homo sapiens chromosome 17 NC_000017.11 region fr... | (7576) | 7576                                                                          | 7590                    | 7600       | 7610         | 7620              | 7630        | 7640               | 7650       |      |         |
|                                                      | (7324) | CTCTCTCAGAAAGCAGGCAGCCCTGACCCTGG--GGTCCTTTCAGGCAACCCTGGGGCCAGGATC             | AGTCCGTGTG              |            |              |                   |             |                    |            |      |         |
|                                                      | (7184) | CTTACT-AGCA-CATGAGGCAGGCCTAAGTATGCAAGAGAGATGCAGGAGGAAAATGCATAAGTGTATACATATGAA |                         |            |              |                   |             |                    |            |      |         |
|                                                      |        | Section 103                                                                   |                         |            |              |                   |             |                    |            |      |         |
| Homo sapiens chromosome 17 NC_000017.11 region fr... | (7651) | 7651                                                                          | 7660                    | 7670       | 7680         | 7690              | 7700        | 7710               | 7725       |      |         |
|                                                      | (7397) | CCAGAAAGTC                                                                    | CCAGCTGAGCCAGCCCTGGGC   | CAAGCC     | TCTCTCCG     | CACCTCCCGGCTACGAA | GAA         | AGAA               |            |      |         |
|                                                      | (7257) | ATTCAATA                                                                      | TCAAAGACCTTAATGACACCAAA | CAATAA     | TAA          | CCAAAT            | CAAA        | CACATACCTCTTTGAAGG | CA         | AGAA |         |
|                                                      |        | Section 104                                                                   |                         |            |              |                   |             |                    |            |      |         |
| Homo sapiens chromosome 17 NC_000017.11 region fr... | (7726) | 7726                                                                          | 7740                    | 7750       | 7760         | 7770              | 7780        | 7790               | 7800       |      |         |
|                                                      | (7472) | GGGGTGCCTCCTCCTCT-TTGGCTTTGTACTTGGCAATGATTTTCT--CAGCTATCGGCTGAATCAGCTGCTTGG   |                         |            |              |                   |             |                    |            |      |         |
|                                                      | (7332) | GAGTAGTAA                                                                     | CAGCAGCTGTAGGC          | AAAGCAAAA  | GGGAAGAGGTAA | CAAA              | CAGCAGT-GAC | AGAATTAG-TGC       | AGGG       |      |         |
|                                                      |        | Section 105                                                                   |                         |            |              |                   |             |                    |            |      |         |
| Homo sapiens chromosome 17 NC_000017.11 region fr... | (7801) | 7801                                                                          | 7810                    | 7820       | 7830         | 7840              | 7850        | 7860               | 7875       |      |         |
|                                                      | (7544) | CCGCCTCGGAC-TCTCCGTCACTCCTCAG-----AA                                          | TCTGTGATTGGGT           | CGG--G---- | GGT          | AGAAAAGA          |             |                    |            |      |         |
|                                                      | (7405) | GGGGT                                                                         | TGATAAA                 | TTGGGTGT   | TAGCAG       | GGCAAGGTAC        | AAGTAGCA    | ATTATAAC           | CATGTGAATT | GGC  | AGAGATT |

## Homo sapiens chromosome 17 vs. Lycium barbarum isolate Lr01 chromosome 6

|                                                       |        |                                                                                     |      |      |      |      |      |      |      |             |
|-------------------------------------------------------|--------|-------------------------------------------------------------------------------------|------|------|------|------|------|------|------|-------------|
|                                                       | (7876) | 7876                                                                                | 7890 | 7900 | 7910 | 7920 | 7930 | 7940 | 7950 | Section 106 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (7602) | CGGGGAGAAAAGCACTGGCTTGTCAAACAGAGCGGCACCCGCGCAGAGGGGGCCTGAGCTGCAGAAACCGGCCCT         |      |      |      |      |      |      |      |             |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (7480) | CGAGTATAAATCATGATCTTAAG-GTTAAAAATATAACTGTAAACAATCAAGCAA-CAAGA-T-TACAGATAACTCCATATT  |      |      |      |      |      |      |      |             |
|                                                       | (7951) | 7951                                                                                | 7960 | 7970 | 7980 | 7990 | 8000 | 8010 | 8025 | Section 107 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (7677) | GAGCG---GCCCCTGAAAGGAATAA-----CTTCCCCTTTGATGTCAGGCTTTGCTCCCGCATGTCATGG              |      |      |      |      |      |      |      |             |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (7552) | GATCCTTATGAAAGTTAACTTTAAATAATTTTTTAAAGCATGATATTTGATAT-CATATCAGTTTCGCAAACAGAACAA     |      |      |      |      |      |      |      |             |
|                                                       | (8026) | 8026                                                                                | 8040 | 8050 | 8060 | 8070 | 8080 | 8090 | 8100 | Section 108 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (7740) | GTGTGTGTGCACATGCGTCACGCAAGCAAAAGCTCAC-AGTGCTCTCTTGCACCGGGCTCCCCAGGAGGAACC           |      |      |      |      |      |      | TGC  |             |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (7626) | GAGAAATGAGATCTTGAAATCAAACTATAAGTAGGAAATAGGCAGGCTTTAAGCATAAATTCATCATAGAG---TGC       |      |      |      |      |      |      |      |             |
|                                                       | (8101) | 8101                                                                                | 8110 | 8120 | 8130 | 8140 | 8150 | 8160 | 8175 | Section 109 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (7814) | CTCACTGAGCAGCTCTTGCTCTCCCAGGTAGACAGTCT--TCCCATTTGAATTCCTCACAAACCCGCCTGGGAGGC        |      |      |      |      |      |      |      |             |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (7698) | ATCTGAGAACAATTTAGACTATAACTAGGAAGGAAGAGTCCCTATTCTATTCCAAACATAACCCATCACAAATGT         |      |      |      |      |      |      |      |             |
|                                                       | (8176) | 8176                                                                                | 8190 | 8200 | 8210 | 8220 | 8230 | 8240 | 8250 | Section 110 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (7886) | TGA-----GCTTCCTCTAA-GCC-----AGGACCTGAGGCGCTGCTAGTGTCTTCTCTCAGCCACAG---AA            |      |      |      |      |      |      |      |             |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (7773) | CAAAAAAGTGAAATCATCTAAATGTCTTTTAAAGAGATCACACAAAATATTATTATTATTTCTTTGAAACAGAGGGTAA     |      |      |      |      |      |      |      |             |
|                                                       | (8251) | 8251                                                                                | 8260 | 8270 | 8280 | 8290 | 8300 | 8310 | 8325 | Section 111 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (7944) | TGAGAAGCC-----ATGACCTCCGACCTCCGACTTCCAGTGAAGAA--ATGGC-AGAA-----GAATGGTGGTGA         |      |      |      |      |      |      |      |             |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (7848) | AGAGAAGACGATAAATGAGCATATTGAGTCACTTGACTTAAAGAAATGAGGCATGAAGATTCAATGTGAACAGC          |      |      |      |      |      |      |      |             |
|                                                       | (8326) | 8326                                                                                | 8340 | 8350 | 8360 | 8370 | 8380 | 8390 | 8400 | Section 112 |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (8006) | GCGGGAGGGGGTGAGGACTGTGGTCTGGTCAAGCGGCTTTTTTFTTTTFTTTTFTTTTFTTTTFTTTTFTTTTFTTTTFTTTT |      |      |      |      |      |      |      |             |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (7923) | AAAATAGAGATTAAGAAGAAATGTTTGGAAATGTGCTCATTTTGTTCACTTTATAAACAGCAAGGTAAAGCAAAGTAA      |      |      |      |      |      |      |      |             |

Homo sapiens chromosome 17 vs. Lycium barbarum isolate Lr01 chromosome 6

|                                                                                                               |        |                        |                     |                    |                  |              |              |            |           |                |           |
|---------------------------------------------------------------------------------------------------------------|--------|------------------------|---------------------|--------------------|------------------|--------------|--------------|------------|-----------|----------------|-----------|
|                                                                                                               |        | Section 113            |                     |                    |                  |              |              |            |           |                |           |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (8401) | 8401                   | 8410                | 8420               | 8430             | 8440         | 8450         | 8460       | 8475      |                |           |
|                                                                                                               | (8079) | TCGCTCTGTGCTCCAG----   | GC-----             | TGGAGTGCAGTGTGTGCC | ATCTGGGCTCACTACA | -----        | ACTTCTG      |            |           |                |           |
|                                                                                                               | (7998) | AAAC-CTTTATCAAAGTAAAGC | ATTTCTCATTTT        | GATCACACGACAA      | AAGGGGAAAAGTAA   | CAGCGAATT    | AAAG         |            |           |                |           |
|                                                                                                               |        | Section 114            |                     |                    |                  |              |              |            |           |                |           |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (8476) | 8476                   | 8490                | 8500               | 8510             | 8520         | 8530         | 8540       | 8550      |                |           |
|                                                                                                               | (8137) | CCTCCCCGGTTCAAGCGATTCT | TCGTGCTCAGCCTCCCGAG | TAGCTGGGATTACAGGC  | GTGAGCCACACACC   |              |              |            |           |                |           |
|                                                                                                               | (8072) | CATATT-GATCCA          | GATCATTC            | AA                 | TCGTGACTCA       | ACCTGAA-AC   | TAAACATGATGA | -AGGC      | AA-AC     | TAAACA         |           |
|                                                                                                               |        | Section 115            |                     |                    |                  |              |              |            |           |                |           |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (8551) | 8551                   | 8560                | 8570               | 8580             | 8590         | 8600         | 8610       | 8625      |                |           |
|                                                                                                               | (8210) | CAGGCTC                | GT---ACAGTGA        | TTTTGAGT           | TGTTGGAGGGAGCCA  | CAGGTCC      | AAGGCAGAG    | GCCAGG     | TTT-TGCA  | AA             |           |
|                                                                                                               | (8143) | CAGCTCTGT              | AAGACAGTGA          | AAC                | TACGT            | CACATAAG     | CACTTAAGCGC  | GTCC       | TAGTAGCAT | GTTAAAC        | TAAATAGCA |
|                                                                                                               |        | Section 116            |                     |                    |                  |              |              |            |           |                |           |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (8626) | 8626                   | 8640                | 8650               | 8660             | 8670         | 8680         | 8690       | 8700      |                |           |
|                                                                                                               | (8281) | AAGGAAC                | CAGGGTCA            | TCCATCAGACT        | TGCAGG           | GAGCCTGGCATG | GATGCG       | CCTGTGTCC  | CCCTGG    | CCGGCTGG       |           |
|                                                                                                               | (8218) | AA                     | TTAGGCA             | TAGA-ACC           | CACACACACAA-AGG  | TTCAATTATACA | GAGGCG       | AGAACATTC  | CAATATAC  | TTACATGCA      |           |
|                                                                                                               |        | Section 117            |                     |                    |                  |              |              |            |           |                |           |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (8701) | 8701                   | 8710                | 8720               | 8730             | 8740         | 8750         | 8760       | 8775      |                |           |
|                                                                                                               | (8356) | CAGT                   | TACCCACGGAGCTC      | AGACTGGGTGAGA      | -----            | TGGGAGACGGG  | GAGGTGCAAGCG | AGGACAAAGG | AGCCA     |                |           |
|                                                                                                               | (8291) | C---                   | TACATACAGGCAT       | AAACATGCTA         | ATAAA            | AACTTAAA     | ATTAGCTGA    | ACTG-AA    | TTAAGGA   | ATGAGCAGACA    |           |
|                                                                                                               |        | Section 118            |                     |                    |                  |              |              |            |           |                |           |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (8776) | 8776                   | 8790                | 8800               | 8810             | 8820         | 8830         | 8840       | 8850      |                |           |
|                                                                                                               | (8425) | AGGCAGC                | CACCGGGCTGG         | AGCAGCTCTTC        | AGAGCAGAGG       | ATCCGCAG     | AAGCAGC      | CTTGGT     | GAGCCTCG  | CCAG           |           |
|                                                                                                               | (8361) | GATTCTTCTGGTA          | GCTA-AGCT           | GAAACTAA           | ACCATATTAA       | AAACACGA     | AATATCAT     | TTCAAG-TA  | AGATGCTG  | GACA           |           |
|                                                                                                               |        | Section 119            |                     |                    |                  |              |              |            |           |                |           |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (8851) | 8851                   | 8860                | 8870               | 8880             | 8890         | 8900         | 8910       | 8925      |                |           |
|                                                                                                               | (8500) | AGGGGCC                | CAGCCCTGC           | AGCTGC             | CGTGTGT          | T---GCC      | ACC          | CGCCCTT    | CCAACA    | ATGGGTCTGCGCAT | TGGGGGCC  |
|                                                                                                               | (8434) | ACATCTACA              | AAACACATA           | ATCAAA             | CAATACT          | TCAAACT      | AAACGA       | AATTTG     | CAACA     | CCACTGCTTCAC-T | AACTAAAA  |

Homo sapiens chromosome 17 vs. Lycium barbarum isolate Lr01 chromosome 6

|                                                                                                               |        |                                                                                |      |      |      |      |      |      |      |
|---------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------|------|------|------|------|------|------|------|
|                                                                                                               |        | Section 120                                                                    |      |      |      |      |      |      |      |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (8926) | 8926                                                                           | 8940 | 8950 | 8960 | 8970 | 8980 | 8990 | 9000 |
|                                                                                                               | (8572) | CGAGGGCATCTCCCGGCCGTACCTATTCTGCCCAGCTGGCAGCTGGGGAGCAGCTAGGAGGGAAAGTGCAGCTG     |      |      |      |      |      |      |      |
|                                                                                                               | (8508) | AAAATAAACTGACACAACTATCTATTAAATATTAAACAAATATCAA---ACCAAGCTAACGGCTAACTATCGAAC    |      |      |      |      |      |      |      |
|                                                                                                               |        | Section 121                                                                    |      |      |      |      |      |      |      |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (9001) | 9001                                                                           | 9010 | 9020 | 9030 | 9040 | 9050 | 9060 | 9075 |
|                                                                                                               | (8647) | CAGCTCCCACAGGGGGCCAGCCATGAATAAATCAATTGGGTCAAAGGCAGGGCTTCAGGGAGAGACAAAGGCCCAAG  |      |      |      |      |      |      |      |
|                                                                                                               | (8580) | CAACGAA-ACACTT-CGACATATGAATAAACAAGAAAGTATCTGAAGCTGCTAAATAACAGATAACGAAGGGAGAGAT |      |      |      |      |      |      |      |
|                                                                                                               |        | Section 122                                                                    |      |      |      |      |      |      |      |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (9076) | 9076                                                                           | 9090 | 9100 | 9110 | 9120 | 9130 | 9140 | 9150 |
|                                                                                                               | (8722) | GCTT-GCACTGCTGGTGACAGAGAGAAGCGGCAAGGACAGGCTCTCCAAAGTGAGGCCCTCTGTCCCGCCCC       |      |      |      |      |      |      |      |
|                                                                                                               | (8653) | TTATCGACCTTTTGTGGGTACAGTGAAGTGG--GGCGTCGACGTGCTGAACTCTACGGTCGAACCTCGAATGAAAT   |      |      |      |      |      |      |      |
|                                                                                                               |        | Section 123                                                                    |      |      |      |      |      |      |      |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (9151) | 9151                                                                           | 9160 | 9170 | 9180 | 9190 | 9200 | 9210 | 9225 |
|                                                                                                               | (8796) | CCAGCCACCCCTCGCCCCCTGCCGCCGTGAGCTTCACTACCTACAAAAGGACGAGGCGGCCCTCGT-TAAAGC      |      |      |      |      |      |      |      |
|                                                                                                               | (8726) | AAACGATGCTTTCGATTAAAACCCA---GAATTGATTGTGTGATGAAATATGGTGAATTTAGAGTAATCCGGCTAAAG |      |      |      |      |      |      |      |
|                                                                                                               |        | Section 124                                                                    |      |      |      |      |      |      |      |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (9226) | 9226                                                                           | 9240 | 9250 | 9260 | 9270 | 9280 | 9290 | 9300 |
|                                                                                                               | (8870) | TGGCGGGCGTTGGAGTCGAGAGCTCCAGCACGGGCTTGGGGTGCCAGGGGAACTCCCGGCAGTCCCTCGTCGTTC    |      |      |      |      |      |      |      |
|                                                                                                               | (8798) | TTCAC--CGGAAAAGT--GAAAACTATGTTGGAAAAATGGTG----AGTGTCCTAAACAATGAATCAATCCCTC     |      |      |      |      |      |      |      |
|                                                                                                               |        | Section 125                                                                    |      |      |      |      |      |      |      |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (9301) | 9301                                                                           | 9310 | 9320 | 9330 | 9340 | 9350 | 9360 | 9375 |
|                                                                                                               | (8945) | AGCACCTCCACCCGCCCCCTGCCGCGTGATCACCTCGCCCTGCG-----GGGTCCAGCATGA-TGAGCGTGGGGAATG |      |      |      |      |      |      |      |
|                                                                                                               | (8865) | AACTCCAAAATATCCCCCTTTTTCGATTTCGACCTCGACCCATTTATAGGGTTTTCTTCTGTCTCTAGTGGAGAGA   |      |      |      |      |      |      |      |
|                                                                                                               |        | Section 126                                                                    |      |      |      |      |      |      |      |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (9376) | 9376                                                                           | 9390 | 9400 | 9410 | 9420 | 9430 | 9440 | 9450 |
|                                                                                                               | (9014) | CCTGCAGGGAAGAGGGG-TGCTTGGCCGCTGGCCCAGGAGATGCTGSCCCTGCTGGCAGAGGGCTCGCGGGGT      |      |      |      |      |      |      |      |
|                                                                                                               | (8940) | GGAAGCGTGGGAGAGAGGTATGGGTGTCTGGGTGAAGTGGGAGGAACGTGAGGAGCAGG--AGCAGGCGTGGGGGG   |      |      |      |      |      |      |      |

Homo sapiens chromosome 17 vs. Lycium barbarum isolate Lr01 chromosome 6

|                                                                                                               |        |               |                 |               |                |             |              |           |              |             |                  |
|---------------------------------------------------------------------------------------------------------------|--------|---------------|-----------------|---------------|----------------|-------------|--------------|-----------|--------------|-------------|------------------|
|                                                                                                               |        | Section 127   |                 |               |                |             |              |           |              |             |                  |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (9451) | 9451          | 9460            | 9470          | 9480           | 9490        | 9500         | 9510      |              |             |                  |
|                                                                                                               | (9088) | CCAGC         | CCGGGGTCCCCCGA  | CCGTGGTGGAGCC | CACC           | GAGGACCT    | GGTACAGGCT   | CACAATGA  | AGAGGCCA     | ---         |                  |
|                                                                                                               | (9013) | AA---         | CAAAAGTAAGTGGAG | CAGCGATGGATGG | CAGA           | GAGAAGAGG   | TAGGAAGAACGT | GAAATGGA  | GGAGAGAA     | AAG         |                  |
|                                                                                                               |        | Section 128   |                 |               |                |             |              |           |              |             |                  |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (9526) | 9526          | 9540            | 9550          | 9560           | 9570        | 9580         | 9590      | 9600         |             |                  |
|                                                                                                               | (9159) | GGTC          | TAAAGTCACAAAG   | CCTGGGAGAAATC | CAGGCCTGGCCAGG | --GGGAGCCAT | TGGAACCCCT   | TCGGGT    | CAGCC        |             |                  |
|                                                                                                               | (9085) | GGAG          | TAGAGAGATAGAG   | ATGAAAGAGTGAG | CGGCGGA        | GGTGAAGGA   | GGGGTGAAGGA  | TTAGGT    | TTTGT        | TTGGT       |                  |
|                                                                                                               |        | Section 129   |                 |               |                |             |              |           |              |             |                  |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (9601) | 9601          | 9610            | 9620          | 9630           | 9640        | 9650         | 9660      |              |             |                  |
|                                                                                                               | (9232) | T--GT         | AACCTGTCACCT    | TCGCCCTT--TC  | AGGGCCTCAGGAT  | CCTCAC      | GCTGCA       | AGCTGAT   | GTGT         | GTGTT       | GTGTT            |
|                                                                                                               | (9160) | TTAG          | GAAATAGAAAGTGT  | TGGGCCGGG     | TCGGGTGA       | TAGGT       | T--TGG       | GCTGGA--  | CTGA         | ACCGGT      | TAGGTAGTT        |
|                                                                                                               |        | Section 130   |                 |               |                |             |              |           |              |             |                  |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (9676) | 9676          | 9690            | 9700          | 9710           | 9720        | 9730         | 9740      | 9750         |             |                  |
|                                                                                                               | (9303) | CTACCTTATTCCG | -CT-ACAGAAAG    | GATCAATGAG    | TTC----ATG     | CGGT        | TAAAGAACT    | TAGAGTTT  | GGGAGGCT     | TGA         |                  |
|                                                                                                               | (9231) | GTGTAGG       | ATTGCGCTGAT     | ATAAATGTGGGT  | TGGGTATTAAA    | ATGTGG      | TGTTTATTT    | GGTAGG    | GGAA         | TAAATAT     |                  |
|                                                                                                               |        | Section 131   |                 |               |                |             |              |           |              |             |                  |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (9751) | 9751          | 9760            | 9770          | 9780           | 9790        | 9800         | 9810      |              |             |                  |
|                                                                                                               | (9372) | GGTGGATGGA    | --T----C        | ACTTGA--GG    | TCAGGAGTTG     | GAGA--CC    | AGCCTG--GC   | ACATGGT   | GAAACCC      | CCGTC       |                  |
|                                                                                                               | (9306) | TGTATT        | TGTAATTTAAG     | CAATTAATT     | GGCTGAA        | AATTGTT     | GATCCTT      | CCTCCG    | CTATTT       | TAAATATTTT  | CGGGCT           |
|                                                                                                               |        | Section 132   |                 |               |                |             |              |           |              |             |                  |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (9826) | 9826          | 9840            | 9850          | 9860           | 9870        | 9880         | 9890      | 9900         |             |                  |
|                                                                                                               | (9437) | TCTACT        | TAAAAATACAAAACT | AGCTGGGCGTG   | GTG            | GC          | GGGCGCCT     | GTA       | GTCCC--AGCTA | CTC--GGGAGG | CTGAGG           |
|                                                                                                               | (9381) | TCTAAT        | TTTAAATACTAGT   | ACATATTTATTAT | GTGAAG         | GATAAATA    | GTAAT        | TAGTATATA | GAAAGTA      | AGGATTTTA   |                  |
|                                                                                                               |        | Section 133   |                 |               |                |             |              |           |              |             |                  |
| Homo sapiens chromosome 17 NC 000017.11 region fr...<br>Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (9901) | 9901          | 9910            | 9920          | 9930           | 9940        | 9950         | 9960      |              |             |                  |
|                                                                                                               | (9510) | CAGGAGAA      | TCGCTCGAACT     | CGGGAGGTGGAG  | GGTTG          | CAGTGAG     | CCAGGAT      | TGCA      | CCACT        | TC          | CACTCCAGCCTGGACA |
|                                                                                                               | (9456) | CAAAGTGT      | TGTCTGTAA       | TTA--ATT      | TAACGATT       | CAG--A      | CCGAAA       | ATGAA     | CGATG        | -ACT        | AACCGTTAAAA      |

Homo sapiens chromosome 17 vs. Lycium barbarum isolate Lr01 chromosome 6

|                                                       |         |                                                                                  |       |       |       |       |       |       |       |       |  |
|-------------------------------------------------------|---------|----------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
|                                                       |         | Section 134                                                                      |       |       |       |       |       |       |       |       |  |
|                                                       |         | (9976)                                                                           | 9976  | 9990  | 10000 | 10010 | 10020 | 10030 | 10040 | 10050 |  |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (9585)  | ACAGAGCAAGATTCTGTCTCTAAACAAATTAATAAATAAATAAGAACTTAGCACAGGGTTCATGGCCGATCGGAAG     |       |       |       |       |       |       |       |       |  |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (9526)  | TTTGTGATAAAGTAAATGCTCCTGTAAATGTTTAAAAA-AAATAAGAGTAGTGAAAATAATAGTAGTGAAAATAAG     |       |       |       |       |       |       |       |       |  |
|                                                       |         | Section 135                                                                      |       |       |       |       |       |       |       |       |  |
|                                                       |         | (10051)                                                                          | 10051 | 10060 | 10070 | 10080 | 10090 | 10100 | 10110 | 10125 |  |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (9659)  | CAATCA-CTCACTGCTGGTCTCCCAAGACAC--AGAGACCTTCCCCAGCTGC-----TGGGGGTCAAAACACGG       |       |       |       |       |       |       |       |       |  |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (9600)  | TATTTAGCTCGTGTAGTAAATTTAGAAAACCCTGGGTAAATTAAATTAGGAGAGGGAACAAATTGGGTGTCAAACAGCAG |       |       |       |       |       |       |       |       |  |
|                                                       |         | Section 136                                                                      |       |       |       |       |       |       |       |       |  |
|                                                       |         | (10126)                                                                          | 10126 | 10140 | 10150 | 10160 | 10170 | 10180 | 10190 | 10200 |  |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (9726)  | A-ACAGGCAGTGCAGTG-ACCACACGGCGGAACCTTGCTGTGGCCACCGATGCAAGACGGGTCTCTGCCCGGCCACA    |       |       |       |       |       |       |       |       |  |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (9675)  | ATATAGGCGACTGAGTGCACCGATTTGTAAAGGCCTAGGGCCACACTTGATGGATAGATGCTTGACTGCGTCC        |       |       |       |       |       |       |       |       |  |
|                                                       |         | Section 137                                                                      |       |       |       |       |       |       |       |       |  |
|                                                       |         | (10201)                                                                          | 10201 | 10210 | 10220 | 10230 | 10240 | 10250 | 10260 | 10275 |  |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (9799)  | GTGAGCGC---AGGGCCAGTGC-CGCGGGGGGAACTTGAGGCTGGCCGCACCAGGAGAC-TCGAAGAGGAGGACA      |       |       |       |       |       |       |       |       |  |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (9750)  | TTCAGGACGATATGGATACCTGCACGCATTACAGGCCATGCTCAAAACCTTAGAAGAAACCTGCCACAGCAAGAA      |       |       |       |       |       |       |       |       |  |
|                                                       |         | Section 138                                                                      |       |       |       |       |       |       |       |       |  |
|                                                       |         | (10276)                                                                          | 10276 | 10290 | 10300 | 10310 | 10320 | 10330 | 10340 | 10350 |  |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (9869)  | GCTGACTGCAGGCCCGCCGTCTGCACCCAGGCCCTCCCGCTCCCAAGGCTGCAGCCCCCGCCGTCTGCACCC         |       |       |       |       |       |       |       |       |  |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (9825)  | GCGAACGTGAGCAAGATAGGGGCACTAGCAAAAGGGCCAGATCTTCGGGTGCGATGAGTGAGATTAGAGGTTGG       |       |       |       |       |       |       |       |       |  |
|                                                       |         | Section 139                                                                      |       |       |       |       |       |       |       |       |  |
|                                                       |         | (10351)                                                                          | 10351 | 10360 | 10370 | 10380 | 10390 | 10400 | 10410 | 10425 |  |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (9944)  | CAGCACAAACCCCTCCCCAGGGCTGCAGCCCCCGCTCTGCACCCAGCACAACCCC-----                     |       |       |       |       |       |       |       |       |  |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (9899)  | CAGGCAAGCAGTTTCCCGGGCATTCAGGGTACTCTATTGACCAGTGCACCTCCACGGTTTTTTTCAGGCTAGAGAT     |       |       |       |       |       |       |       |       |  |
|                                                       |         | Section 140                                                                      |       |       |       |       |       |       |       |       |  |
|                                                       |         | (10426)                                                                          | 10426 | 10440 | 10453 |       |       |       |       |       |  |
| Homo sapiens chromosome 17 NC_000017.11 region fr...  | (10002) | -----                                                                            |       |       |       |       |       |       |       |       |  |
| Lycium barbarum isolate Lr01 chromosome 6 NC_08334... | (9974)  | TTGATAGATCTGCTCGTGTGGGGCCGAG                                                     |       |       |       |       |       |       |       |       |  |