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consensus

FTTCCT<mark>G</mark>GTGGCCCGGCCGTGCCTGAGGTTTCTCC t GAGCCGCCGCCTCTACGAGCTCC..AGGTGCCCTTACCCCTCGCGGTCCC.GGCCCTCGGAGCCGCCGCCTCTGCGAGCTCCC GGGTGCCCTTGCCCTCGCGGTCCCCGGCCCTCG GAGCCGCCGCCTCTGCGAGCTCCC CGAGCCGCCGCCTCT<mark>G</mark>CG<mark>G</mark>GCTCC<mark>C</mark> GGGTGCCCTTGCCCTCGCGGTCCCCGGCCCTCG GAGCCGCCCCCTCTGCGGGCTCC..GGGTGCCCT.GCCCTCGCGGTCCC.GGCCCTCG GAGCCGCCGCCTCTACGGGCTCCC. GGGTGCCCTTACCCTCGCGGTCCC.GGCCCTCG TTTCCT**G**GTGGCCCGGCCGTGCCTGAGGTTTCTCCC<mark>C</mark>GAGCCGCCGCCTCT**G**CG**G**GCTCC**C** GGGTGCCCTTGCCCTCGCGGTCCCCGGCCCTCG ${ t TTTCCTgGTGGCCCGGCCGTGCCTGAGGTTTCTCCC}$. ${ t GAGCCGCCGCCTCTgCGgGCTCCc}$. ${ t gGGTGCcCTTgCCcTCGCGGTCCCcGGCCCTCG}$

186

183

187 183

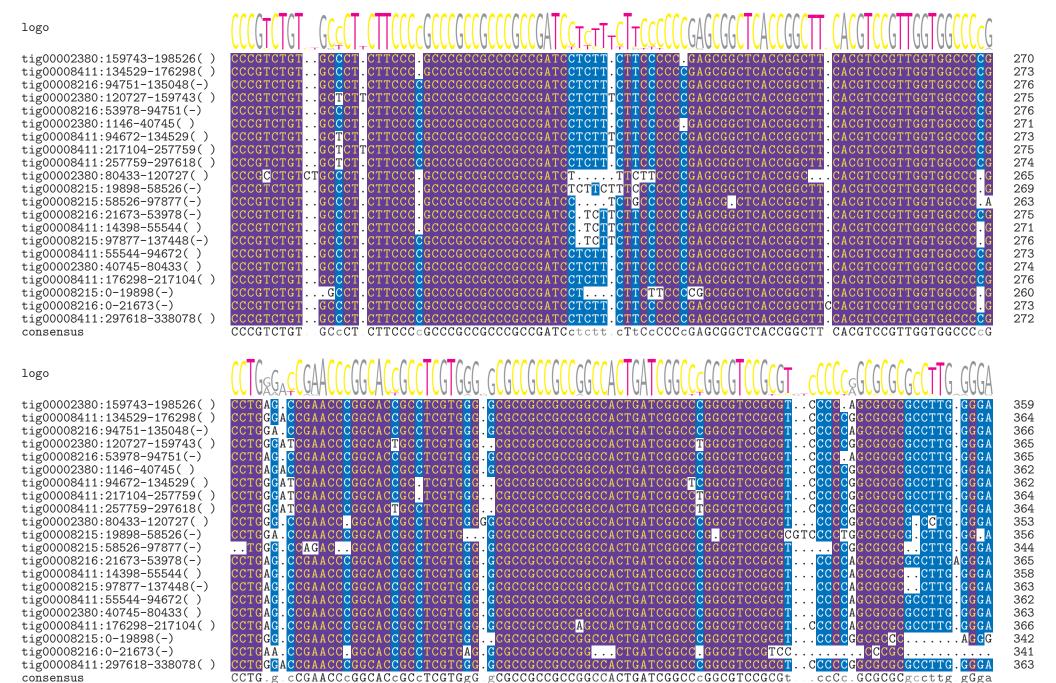
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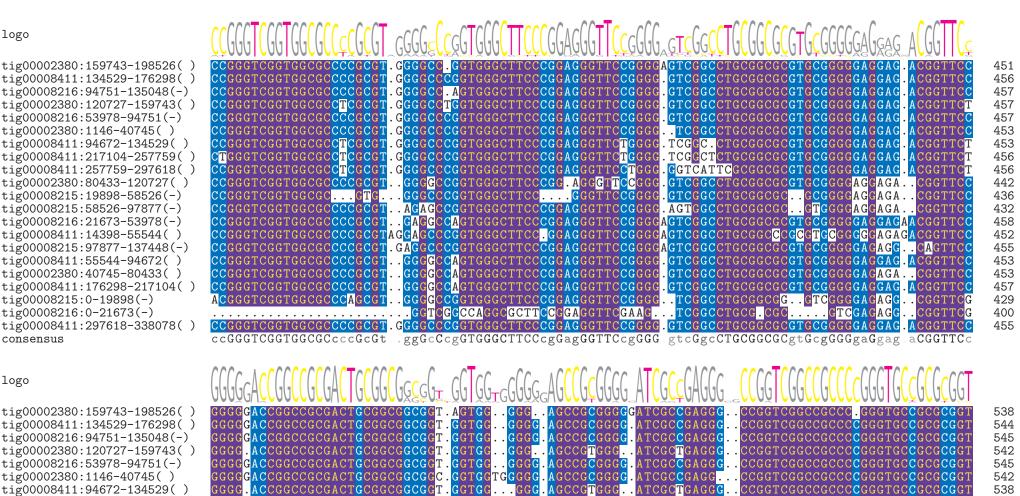
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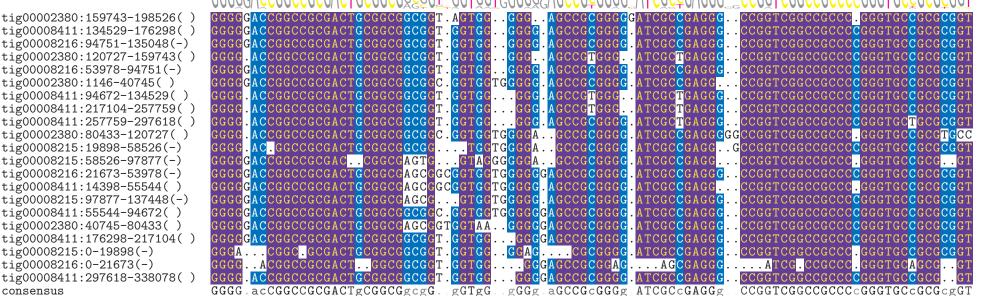
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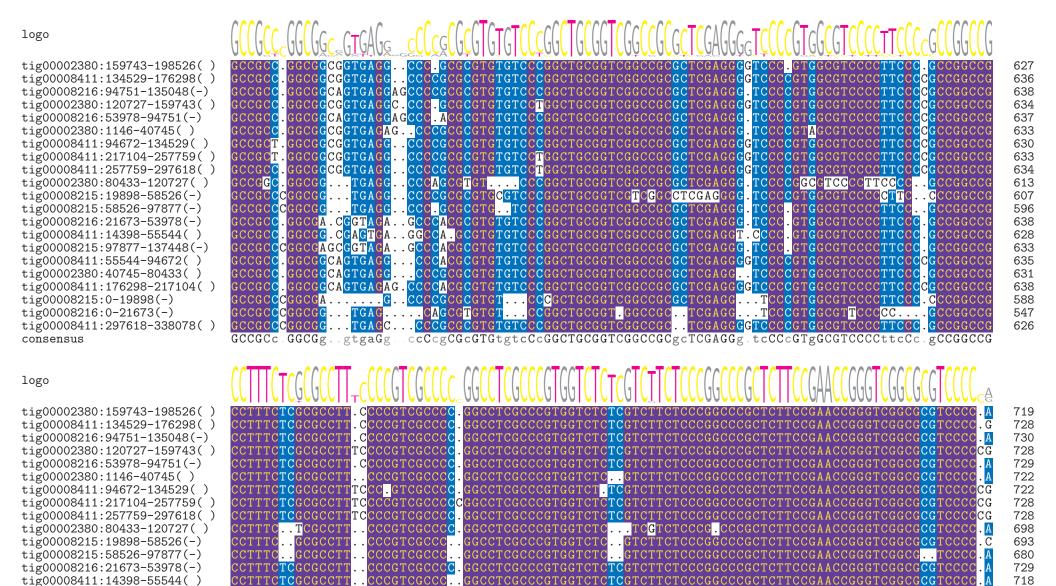
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182









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724 727

723

730

669

637

720

tig00008215:97877-137448(-)

tig00008411:55544-94672()

tig00002380:40745-80433() tig00008411:176298-217104()

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consensus

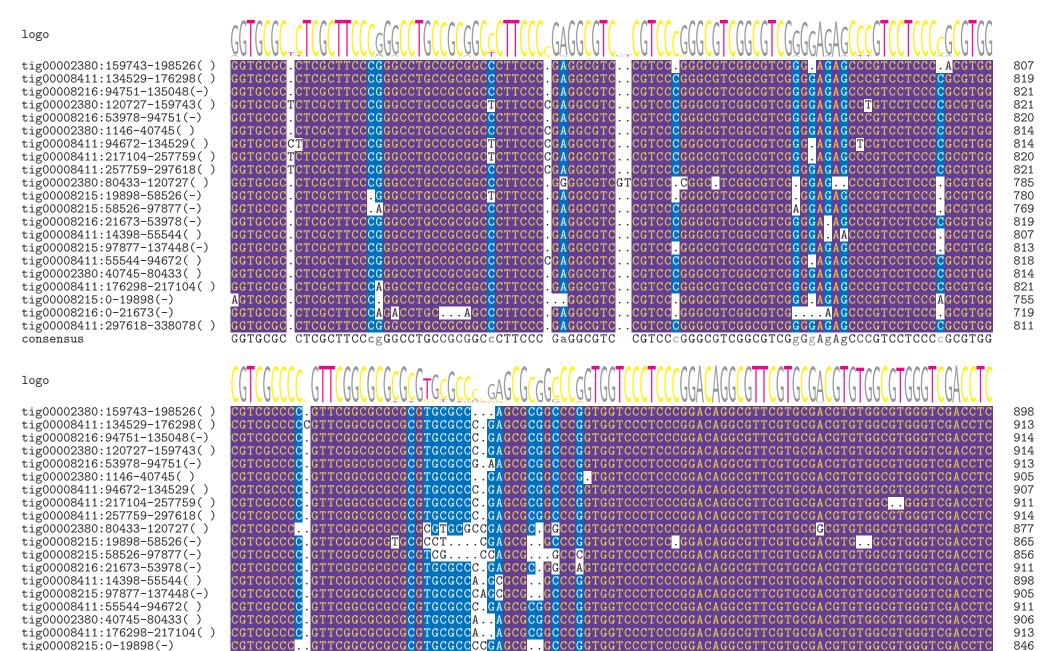
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C. GCGCCT

CCTTTCTCGCGCCT

CCTTTCTCGCGCCT

CCTTTC<mark>TC</mark>GCGCCT'



GTTCGGCGCGCG<mark>T</mark>C<mark>GC......C</mark>AGCG<mark>CG</mark>GCCC**G**GTGGTCCCTCCCGGACAGGCGTTCGTGCGACGTGTGGCGTGGGTCGACCTC

GTTCGGCGCGCG...<mark>GCCTCCTGGC</mark>CG...GCCCGGTGGTCCCTCCCGGACAGGCGTTCGTGCGACGTGTGGCGTGGGTCGACCTC

 $\overline{\mathtt{CGTCGCCCc}}$ $\overline{\mathtt{GTTCGGCGCGCGCGtgcgcc}}$. $\mathtt{gaGCGcgGcCCgGTGGTCCCTCCCGGACAGGCGTTCGTGCGACGTGTGGCGTGGGTCGACCTC}$

808

900

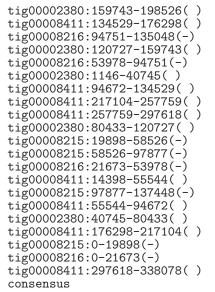
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consensus

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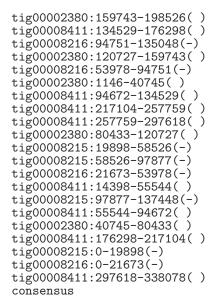
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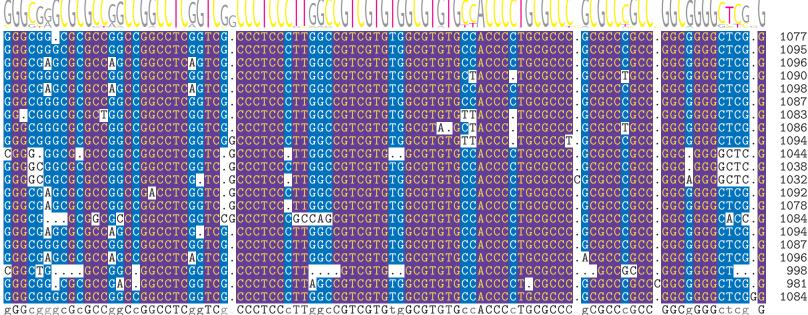




987 1004 CCCGGGCCGGGCCTCGGCCCCGGTCGCGGTCCCCC GGGTCGGGGGGTGGGG 1005 CTCGGCC..GGGCCTCGGCCCCGGTCGCGGTCCCCC 1000 CGCCTTGCCGGTCGCTCGCCCTCTCCCT...GGTCGGGGG<mark>T</mark>...GG<mark>G</mark> CGGGTCGGGGGGTGGGG 1007 CCCGGGCCGGGCCTCGGCCCCGGTCGCGGTCCCCC<mark>AC</mark>GTCCCGGGCGG CCCGGGCCGGGCCTCGGCCCCGGTCGCGGTCCCC... 996 GGGTCGGGGGGTGGGG 994 997 TGGTCGGGG...TGGG... CGGTCGGGGG. TGGGG CTCGGGCCGGGCCTCGGCCCCGGTCGCGGTCCCCC 1003 GGGTCGGGG..TGGGG ${\tt CCCGGCC}$. ${\tt GGGGCCTCGGCCCCG}$. ${\tt TCGCGGTCCCC}$. . . 959 <u>c<mark>tcg</mark>ggc.cggcccccg</u>tcgcgctcccc GGGTCGGGG . . TGGGG ${\tt CGCCTTGCCGGTCGCTCTCCCC}$ 948 C<mark>C</mark>C<mark>GGGC.G</mark>GGCCTCGGCCC<mark>GG.</mark>TCGCG<mark>G</mark>TCCCC GGGTCGGGGG.TGGGG 942 CCC<mark>A</mark>GGCC<mark>G</mark>GGGCCTCGGCCC<mark>G</mark>G.TCGCG<mark>G</mark>TCCCC<mark>C</mark> CCCGGGCCGGGGCCTCGGCCC<mark>G</mark>G.TCGCG<mark>A</mark>TCCCCC GGGTCGGGGGTGGGG 1001 988 GGGTCGGGGGGTGGGG C<mark>CCGGGCCG</mark>GGCCTCGGCCC<mark>GG.</mark>TCGCG<mark>G</mark>T 995 GGGTCGGGGGGTGGGG $\mathtt{CCCGGGCCGGGCCTCGGCCC\overline{C}G\overline{G}TCGCGATCCCC\overline{AA}.\overline{ATCCCGG\overline{GCGG}}$ CGGGTCGGGGGGTGGGG 1004 GGGTCGGGGGGTGGGG. CCCGGGCCGGGCCTCGGCCCGG.TCGCGATCCCCC 996 CCCAGGCCGGGCCCCCAGTCGCGGTCCCCC CGGGTCGGGGGGTGGGG 1005 CGCCTTGCCGGT...TCGCC.TCTCCC $\begin{array}{lll} \textbf{GGGT} \textbf{GGGGG} \dots \dots \textbf{TGGGGGGCT} \\ \textbf{GGCCC} \\ \textbf{CGGTCGCGGTCCCC} \\ \end{array} .$ 922 ${\tt GGGTCGGGGGGGGCCCAGGCCCGGGCCC.........} {\tt GGTCCCCCC}.$ 892 CGCCTTGCCGGTCGCTCGCCCTCTCCC<mark>C</mark> 992 CGCCTTGCCGGTCGCTCGCCCTCTCCCC gGGTCGGGGggtgGGg CcCgGgCcgGGCCTCGGCCCcggTCGCGgTCCCCc

logo







tig00002380:159743-198526() tig00008411:134529-176298() tig00008216:94751-135048(-) tig00002380:120727-159743() tig00008216:53978-94751(-) tig00002380:1146-40745() tig00008411:94672-134529() tig00008411:217104-257759() tig00008411:257759-297618(tig00002380:80433-120727(tig00008215:19898-58526(-) tig00008215:58526-97877(-) tig00008216:21673-53978(-) tig00008411:14398-55544() tig00008215:97877-137448(-) tig00008411:55544-94672() tig00002380:40745-80433() tig00008411:176298-217104() tig00008215:0-19898(-) tig00008216:0-21673(-) tig00008411:297618-338078() consensus

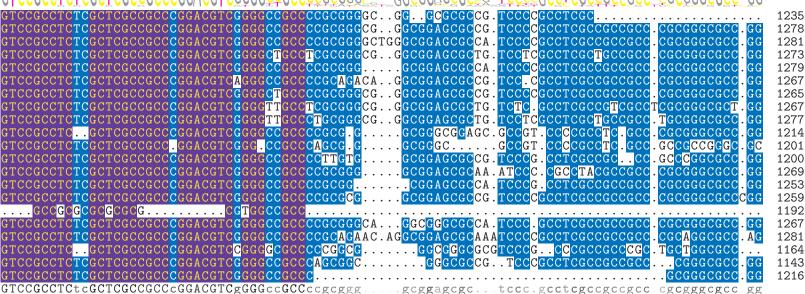
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| UAGTE VECCE VECCE VICE VICE VICE VICE VICE V | |
|---|------|
| AGCCGGGCTTCGGCCGGGCCCCGGGCCCTCGACCGGACCGGTGCGCGGG.CGCTGCGGCCACGGCGCGACTGTCCCGGGGCACCG | 1166 |
| ${\tt AGCCGGGCTTCGGCCGGGCCCCGGGCCCTCGACCGGACCGGTGCGCGGGG.}$ ${\tt CGCTGCGGCCGG.}$ ${\tt ACGGCGCGACTGTCCCCGGGCCACCGGCCACCGGGCACCGGCACGGCACCGGCACCGGCACCGGCACCGGCACCGGGCACCGGCACCGGCACCGGCACCGGGCACCGGGCACCGGGCACCGGGCACCGGGCACCGGGCACCGGCACCGGCACCGGCACCGGCACCGGCACCGGCACCGGCACCGGCACCGGCACCGGCACCGACCGGCACCGGCACCGGCACCGGCACCGGCACCGACACCAC$ | 1188 |
| AGCCGGGCTTCGGCCGGGCCCCGGGCCCTCGACCGGACCGGTGCGCGGG.CGCTGCGGCCGC.ACGGCGCGACTGTCCCCCGGGCCACCGCG | 1189 |
| AGCCGGGCTTCGGCCGGGCCCCGGGCCCTCGACCGGACCGGTGCGCGGG.CGCTGCGGCCGC.ACGGCGCGACTGTCCCCCGGGCCACCGCG | 1183 |
| AGCCGGGCTTCGGCCGGGCCCCGGGCCCTCGACCGGACCGGTGCGCGGGG.CGCTGCGGCCACGCGACGGCGACTGTCCCCCGGGCCACCGCG | 1192 |
| AGCCGGGCTTCGGCCGGGCCCCCGGGCCCTCGACCGGACCGGTGCGCGGG.CGCTGCGGCCACGGCGCGACTGTCCCCCGGGCCACCGCG | 1178 |
| AGCTGGCTTC.GGCCGGGCCCCGGGCCCTCGACCGGACCG | 1175 |
| AGCCGGGCTT.G.CCGGGCCCCGGGCCCTCGACCGGACCG | 1177 |
| AGCCGGGCTTCGGCCGGGCCCCGGGCCCTCGACCGGACCGGTGCGCGGGG.CGCTGCGGCCGC.ACGGCGCGACTGTCCCCCGGGGCACCGCG | 1187 |
| GGCCGGGCTTCGGCGGGCCGGGCCTCGACCGGAC.GGTGCGCGGGG.CGCTGCGGCCGC.ACGGCGCGACTGTCCCCCGGGCCACCGCG | 1132 |
| GAGCCGGCCCGCCCGGCCCC.GGGCCCCCCGACCGGAC.CGTGCGCGGGC.CGCCCGGCCGGC.GCCGACTGTCCC.GGGCCGGGCACCGCG | 1124 |
| GGCCGGGCTTCGGCCGGGCCCGGGCCTCGACCGGAC.GGTGCGCGGC.TGCGGCCGGC.GCGACTGTCCC.GGGCCGGGCACCGCG | 1116 |
| AGCCGGGCTTCGGCCGGGCCC.GGGCCCTCGACCGGACCG | 1183 |
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| AGCCGGGCTTCGGCCGGGCCCCGGGCCCTCGACCGGACCGGTGCGCGGGGGCGCCC | 1168 |
| AGCCGGGCTTCGGCCGGGCCCCGGGCCCTCGACCGGACCGGTGCGCGGGC. CGCTGCGGCCGC. ACGGCGCGACTGTCCC. GGGCCGGGCACCGCG | 1179 |
| AGCCGGGCTTCGGCCGGGCCCCGGGCCCTCGACCGGACCGGTGCGCGGG.CGCTGCACC.ACAGCCGCACTGTCCCCAGGCCGGCCACCGCA | 1189 |
| GGCCGGGCCGGCGGGCCCCGGGCCCCCGACCGGACCGGTGCGCGGG.CGCTGCGGCCGCGGCGCGACTGTCCCGGCGCGGCACCGCG | 1084 |
| GCAGACCGGCGGGCCC.GGGCCCGGACCGGACCG | 1062 |
| AGCCGGGCCGGCCGCGAC.GGACCGGTGCGGGGCCTCGAC.GGACCGGTGCGCGACGGCGCGACTGTCCCCGGGGCACCGCG | 1166 |
| agcCgGgcttcggccGGgCCCcgGGcCCTCGACCGGACcGGTGCGCGGg | |

logo

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consensus
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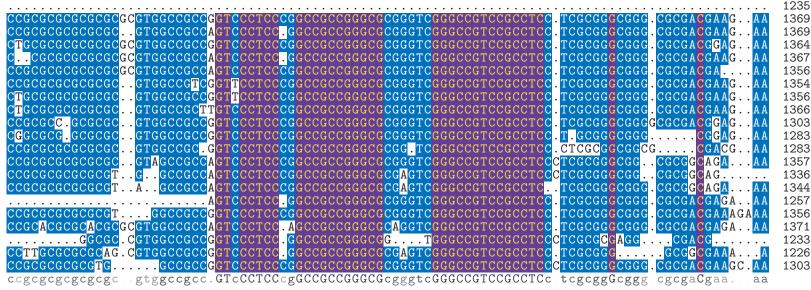
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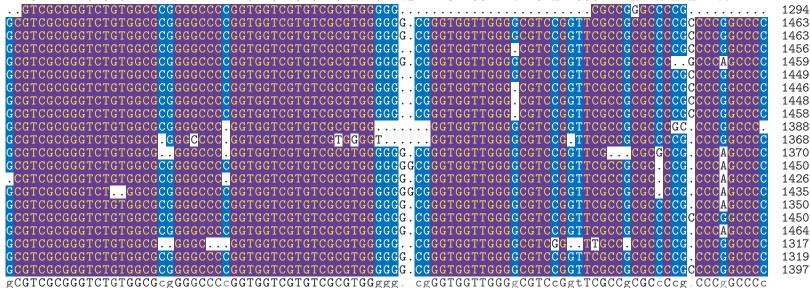


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logo

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tig00008216:0-21673(-)
tig00008411:297618-338078()
consensus
```



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tig00008216:0-21673(-)
tig00008411:297618-338078()
consensus
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ACCGGTCCCGG_CcGCCGCCCCCCCCCCCCCCTCCCTCCCGTCCGCCCGTCCGCCCGTCCGTCCGTCCGTCCGTCCGTCCCTCC_TCGCTTGCG

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1294
                                                          1555
ACCGGTCCCGG
                                                   TCGCTTGCG
              GCGCCCGCTCGCTCCCGTCCGCCCGTCCGCCGGCCCGTCCGTCCG....TCGTCCTCC
                                                          1551
ACCGGTCCCGG
       C<mark>TGCCGCCCC</mark>GCGCCCGCTCGCTCCCGTCCGGCCGTCCGCGGCCCGTCCGTCCG<u>TCCG</u>TCGTCCTCC
                                                    TCGCTTGCG
                                                          1548
ACCGGTCCCGG
                                                    TCGCTTGCG
                                                          1550
ACCGGTCCCGG
              1542
                                                   CTCGCTTGCG
CACCGGTCCCGG
                                                    TCGCTTGCG
                                                          1539
ACCGGTCCCGG
              TCGCTTGCG
                                                          1540
CACCGGTCCCGGGCTGCCGCCCC
              TCGCTTGCG
                                                          1552
ACCGGTCCCGG
       1479
              ACCGGTCCCGG
                                                          1430
AC. GGTCCCGG
              GCGCC.GCTCGCTCCGTCC.GCCCGTCCGT....CCGTTCGTCCTCCTCGCGG.
                                                          1441
ACCGGTCCCGG
              1526
AC.GGTCCCGG
              \mathtt{GCGCCCGCTCGCTCCCGTCCGCCCGTCCG}
                                                    TCGCTTGCG
                                                          1511
AC. GGTCCCGG
                                                          1526
                                                    TCGCTTGCG
ACCGGTCCCGG
                                                   TCGCTTGCG
                                                          1441
              ACCGGTCCCGG
                                                    TCGCTTGCG
                                                          1541
              CGCTTGCG
                                                          1555
TCGC....
                                                          1379
              TCGCTTGCG
                                                          1407
.ACCGGTCCCGG
       .ccgccgcccc<mark>c</mark>gcgccc<del>gc</del>tcgctccctcccgtccgcccgtc<del>c</del>g......tccgtcgtcctcc
                                                    TCGCTTGCG
                                                          1474
accgGTCCCgg ccGCCGCCCc gCGCccgcTCGCTCcCTCCcgtCcgcccgtccgggcccgtccgtccgtccgtcgtcctcc
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logo

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tig00008216:0-21673(-)
tig00008411:297618-338078()
consensus
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GGGCGCCGTCCTCGCGAGGC_CCCCCGGCTgTGCGGCCGCTgTaCqt

1648

1645

1643

1644

1635

1633

1635

1646

1566

1472

1600

1613 1529

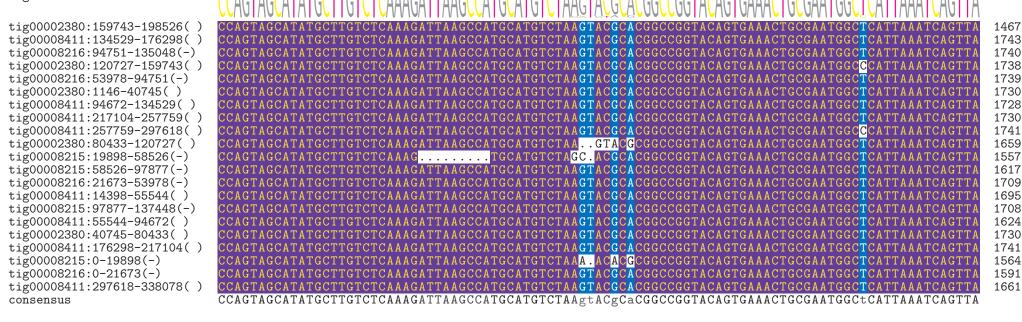
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1496

1566

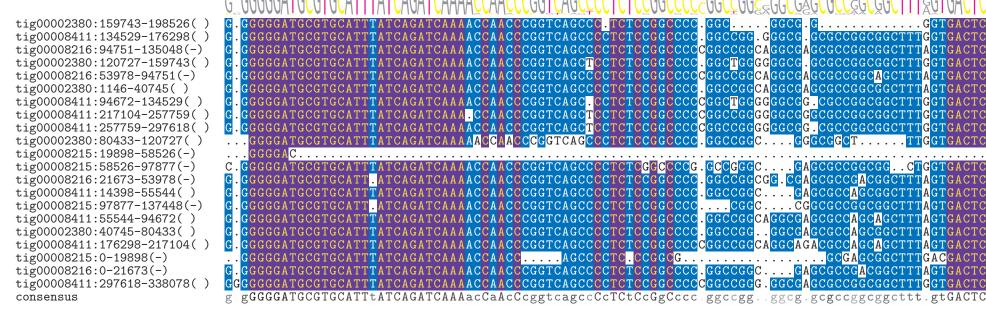
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1372
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GGGCGCCGGGCCCGTCCTCGCGAGGC
                         CCCCGGCCGGCCGTCCGGCCGTCGGGGCCTCGCCGCG<mark>CTC</mark>TACCTACCTACCTGGTTGATCCTG
GGGCGCCGGGCCCGTCCTCGCGAGGC
                         GGGCGCCGGGC<mark>T</mark>CGTCCTCGCGAGGC<mark>T</mark>CCCCGGCCGGCCGTCCGGCCGCTCGGG.CCTCGCCGCG<mark>CTC</mark>TACCTTACCTACCTGGTTGATCCTG
GGGCGCCGGGC<mark>T</mark>CGTCCTCGCGAGGC<mark>T</mark>CCCCCGGCCGGCCGTCCGGCCGCTCGGGG<mark>G</mark>CCTCGCCGC<mark>CTC</mark>TACCTTACCTACCTGGTTGATCCTG
GGGCGCCGGGC<mark>T</mark>GTCCTCGCGAGGC
                         CCCCGGCCGGCCGTCCGGCCGCGTCGGGGCCTCGCCGCG<mark>CTC</mark>TACCTACCTACCTGGTTGATCCTG
G.GCGCCGGCCTCCTCGCGAGGCCC
                         .CCGCCGGCCGTCCGGCGCGTCGGCGCCCTCGCCGCGCGCT.....C.TACCC.ACCTACCTGGTTGATCCTG
                                             GGGGCTCGCCGCGCT....C.<mark>TACCTT</mark>ACCTACCTGGTTGATCCTG
                         CCCCCGGCCGTCCGGCGCGTCGGGGCCTCGCC.CGCT....C....
                                                                                          1522
....GGCGGGCCCGTCCTCGCGAGGC
GGGCGCCGGGCCCGTCCTCGCGAGGC
                                                                                          1614
GGGCGCCGGCCCGTCCTCGCGAGGC
                         CCCCCGGCCG<mark>A</mark>CCGTCCGGCCGCGTCGGGGCCTCGC.....CGCGC<mark>TC</mark>TACCTACCTGGTTGATCCTG
. . GCGCCGGGCCCGTCCTCGCGAGGC
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GGGCGCCGGGCCCGTCCTCGCGAGGC
                         ..CCCCGGCCGACCGTCCGGCCGTCGGGGCCTCGCCG.....CGCTCTACCTACCTGGTTGATCCTG
GGGCGCCGGCCCGTCCTCGCGAGGC
                         CCCCGGCCGGCCGTCCGGCGCGTCGGGGCCTCGCCG<mark>CTC</mark>TACCTTACCTACCTGGTTGATCCTG
                                                                                          1635
                         CCCCGGCCGACCGTCCGGCCGCGTCGGGGCCCTCGCCGCGCT...CTATACCTACCTGGTTGATCCTG
GGGCGCCGGGCCCGTCCTCGCGAGGC
AGGCGCCGGGCCCGTCCT.GCGAGGC
                          1470
                          CCCCGGCCGGCCGTCCGGCCGCCGTCGGCGCCTCGGCA....GCGCTCTACCTACCTGGTTGATCCTG
GGGCGCCGGGCCCGTCCTCGCGAGGC
                         CCCCGGCCGGCCGTCCGG.CGCGTCGGGGCCTCGCGCG.CGCTCTATACCTACCTGGTTGATCCTG
GGGCGCCGGGCCCGTCCTCGCGAGGC
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gggcgccgggcccgtcCtcGcGaggC cCcccGGCCGgCCGtCcgGcCGcCGcCgggCCtCGccgcg...taCcttACCTACCTGGTTGATCCTG



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                                                                                                                                               1834
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tig00008216:53978-94751(-)
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                                                                                                                                               1821
tig00002380:1146-40745()
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tig00008411:94672-134529()
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tig00008411:217104-257759( )
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tig00002380:80433-120727()
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                                                                                                                                               1747
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                                                                                                                                               1643
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tig00008216:21673-53978(-)
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                                                                                                                         CGCTGGCCCCCTTCGCG
                                                                                                                                               1716
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tig00002380:40745-80433()
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tig00008411:176298-217104()
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consensus
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consensus

tig00008411:176298-217104()

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tig00002380:1146-40745()

GGGGGATGCGTĞCATTTATCAGATCAAAACCAAC<mark>CGGTCAGCCCCTCTCCGGCCCC</mark>GGCCG<mark>CAGGCGA</mark>GCGCCGGCGGCTTT<mark>A</mark>GTGACTC

GGGGGATGCGTGCATTTATCAGATCAAAACCAACCCGGTCAGCCCCTCTCCGGCCCC<mark>C</mark>GGCCGG<mark>CA</mark>GGCG<mark>A</mark>GCGCCGGC<mark>A</mark>GCTTT<mark>A</mark>GTGACTC

GGGGGATGCGTGCATTTATCAGATCAAA<mark>.</mark>CCAACCCGGTCAGC<mark>T</mark>CCTCTCCGGCCCC<mark>C</mark>GGCCGGGGGGCGCGGCGGCGGCTTT<mark>G</mark>GTGACTC

<u>GGGGGATGCGTGCATTTATCAGATCAAAACCAACCCGGTCAGCT</u>CCTCTCCGGCCCC<mark>C</mark>GGCCGG<mark>GG</mark>GGCG<mark>G.CGCCGGCGGCTTTG</mark>GTGACTC

GGGGGATGCGTGCATTTATCAGATCAAAACCAACCCGGTCAGCCCCTCTCCGGCCCC<mark>C</mark>GGCCGG<mark>CAGGCAGACGCCA</mark>GC<mark>A</mark>GCTTT<mark>A</mark>GTGACTC

gGGGGATGCGTGCATTtATCAGATCAAAacCaAcCcggtcagccCcTCtCcGgCccc.ggccgg.ggcg.gcgccggcggcttt.gtGACTC

GGCTGGGGGGCG

GGCCGGC....GGGCGGCT...

GGGGGATGCGTGCATTTATCAGATCAAAACCAACCCGGTCAGCTCCTCTCCGGCCCC

GGGGGATGCGTGCATTTATCAGATCAAAACCAACCCGGTCAGCCCCTCTCCGGCCCC

 $\mathtt{GGGGGATGCGTGCATT}$. $\mathtt{ATCAGATCAAAACCAACCCGGTCAGCCCCTCTC}$ $\mathtt{\overline{G}\overline{G}CCC}$

GGGGGATGCGTGCATTTATCAGATCAAAACCAACCCGGTCAGCCCCTCTCCGGCCCC

GGGGGATGCGTGCATT.ATCAGATCAAAACCAACCCGGTCAGCCCCTCTCCGGCCCC

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1772

1847

2016

2019

2007

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2006

2020

1920

1884

1986

1969

1978 1903

2006

2021

1804

1866

1941

GCGCCGGCGCTTTGGTGACTC

. GCGAGCGGCTTTGACGACTC

GGCCGGCAGGCGAGCGCCGGCGGCTTTAGTGACTC

GGCCGGCGG.CGAGCGCCGACGGCTTTAGTGACTC

GGCCGGC....GAGCGCCAGCGGCTTTAGTGACTC

GGCCGGCAGGCGAGCCAGCTTTAGTGACTC

GGCCGG...GGCGAGCGCCAGCGGCTTTAGTGACTC



 ${ t TagAtAaCctcggg}$ ccGATCGCaCGCccCccGTGGCGGCGACGACCCATtcGaACGTCTGCCCTATCAaCTTTCGATGGTAGTCGCCGTGCCTA