

**ITS**

Group09 CAGTTGCTTCGGCGGCCCGCCCCGGGCGCCTCGGGA**CCCCCCCC**-TAGGGGG-CCCCG 58  
Group06 CAGTTGCTTCGGCGGCCCGCCCCGGGCGCCTCGGGA**TCCCCCCCC**CTAGGGGG-CCCCG 59  
Group01 CAGTTGCTTCGGCGGCCCGCCCCGGGCGCCTCGGGA**TCCCCCCCC**-TAGGGGG-CCCCG 58  
Group07 CAGTTGCTTCGGCGGCCCGCCCCGGGCGCCTCGGGA**TCCCCCCCC**TTAGGGGG-CCCCG 59  
Group04 CAGTTGCTTCGGCGGCCCGCCCCGGGCGCCTCGGGA**TC**--CCCCC-TAGGGGG-CCCCG 56  
Group10 CAGTTGCTTCGGCGGCCCGCCCCGGGCGCCTCGGGA**TCCCCCCCC**-TAGGGGG**G**CCCCG 59  
Group08 CAGTTGCTTCGGCGGCCCGCCCCGGGCGCCTCGGGA**TC****TCCCCCCCC**-TAGGGGG**G**CCCCG 59  
Group02 CAGTTGCTTCGGCGGCCCGCCCCGGGCGCCTCGGGA**TC****TCCCCCCCC**-TAGGGGG-CCCCG 58  
Group03 CAGTTGCTTCGGCGGCCCGCCCCGGGCGCCTCGGGA**TC**--CCCCC-TAGGGGG-CCCCG 56  
Group05 CAGTTGCTTCGGCGGCCCGCCCCGGGCGCCTCGGGA**TC**-**CCCCC**-TAGGGGG**G**CCCCG 58  
Group11 CAGTTGCTTCGGCGGCCCGCCCCGGGCGCCTCGGGA**TCCCCCCCC**-TAGGGGG-CCCCG 58  
**Loci** \*\*\*\*\*1\*23\*\*\*\*\*4\*\*\*\*\*5\*\*\*\*\*

Group09 CGGGCGACCCGGACCCAGGCGACCGCCGGGGGACCCAAACTCTT-GTCTTTTAGTGTATT 117  
Group06 CGGGCGACCCGGACCCAGGCGACCGCCGGGGGACCCAAACTCTT-GTCTTTTAGTGTATT 118  
Group01 CGGGCGACCCGGACCCAGGCGACCGCCGGGGGACCCAAACTCTT-GTCTTTTAGTGTATT 117  
Group07 CGGGCGACCCGGACCCAGGCGACCGCCGGGGGACCCAAACTCTT-GTCTTTTAGTGTATT 118  
Group04 CGGGCGACCCGGACCCAGGCGACCGCCGGGGGACCCAAACTCTT-GTCTTTTAGTGTATT 115  
Group10 CGGGCGACCCGGACCCAGGCGACCGCCGGGGGACCCAAACTCTT-GTCTTTTAGTGTATT 118  
Group08 CGGGCGACCCGGACCCAGGCGACCGCCGGGGGACCCAAACTCTT-GTCTTTTAGTGTATT 118  
Group02 CGGGCGACCCGGACCCAGGCGACCGCCGGGGGACCCAAACTCTT-GTCTTTTAGTGTATT 117  
Group03 CGGGCGACCCGGACCCAGGCGACCGCCGGGGGACCCAAACTCTT**T**GTCTTTTAGTGTATT 116  
Group05 CGGGCGACCCGGACCCAGGCGACCGCCGGGGGACCCAAACTCTT-GTCTTTTAGTGTATT 117  
Group11 CGGGCGACCCGGACCCAGGCGACCGCCGGGGGACCCAAACTCTT-GTCTTTTAGTGTATT 117  
**Loci** \*\*\*\*\*6\*\*\*\*\*

Group09 ATCTGAGTGGCATAAGCAAATAAATTTAAAAC**T**TT**C**AGCAACGGATCTCTTGGTTCTGGCA 177  
Group06 ATCTGAGTGGCATAAGCAAATAAATTTAAAAC**T**TT**C**AGCAACGGATCTCTTGGTTCTGGCA 178  
Group01 ATCTGAGTGGCATAAGCAAATAAATTTAAAAC**T**TT**C**AGCAACGGATCTCTTGGTTCTGGCA 177  
Group07 ATCTGAGTGGCATAAGCAAATAAATTTAAAAC**T**TT**C**AGCAACGGATCTCTTGGTTCTGGCA 178  
Group04 ATCTGAGTGGCATAAGCAAATAAATTTAAAAC**T**TT**C**AGCAACGGATCTCTTGGTTCTGGCA 175  
Group10 ATCTGAGTGGCATAAGCAAATAAATTTAAAAC**T**TT**C**AGCAACGGATCTCTTGGTTCTGGCA 178  
Group08 ATCTGAGTGGCATAAGCAAATAAATTTAAAAC**T**TT**C**AGCAACGGATCTCTTGGTTCTGGCA 178  
Group02 ATCTGAGTGGCATAAGCAAATAAATTTAAAAC**T**TT**C**AGCAACGGATCTCTTGGTTCTGGCA 177  
Group03 ATCTGAGTGGCATAAGCAAATAAATTTAAAAC**T**TT**C**AGCAACGGATCTCTTGGTTCTGGCA 176  
Group05 ATCTGAGTGGCATAAGCAAATAAATTTAAAAC**T**TT**C**AGCAACGGATCTCTTGGTTCTGGCA 177  
Group11 ATCTGAGTGGCATAAGCAAATAAATTTAAAAC**T**TT**C**AGCAACGGATCTCTTGGTTCTGGCA 177  
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Group09 TCGATGAAGAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCAT 237  
Group06 TCGATGAAGAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCAT 238  
Group01 TCGATGAAGAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCAT 237  
Group07 TCGATGAAGAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCAT 238  
Group04 TCGATGAAGAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCAT 235  
Group10 TCGATGAAGAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCAT 238  
Group08 TCGATGAAGAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCAT 238  
Group02 TCGATGAAGAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCAT 237  
Group03 TCGATGAAGAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCAT 236  
Group05 TCGATGAAGAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCAT 237  
Group11 TCGATGAAGAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCAT 237  
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Group09 CGAATCTTTGAACGCACATTGCGCCCGCCAGTACTCTGGCGGGCATGCCTGTCCGAGCGT 297  
Group06 CGAATCTTTGAACGCACATTGCGCCCGCCAGTACTCTGGCGGGCATGCCTGTCCGAGCGT 298  
Group01 CGAATCTTTGAACGCACATTGCGCCCGCCAGTACTCTGGCGGGCATGCCTGTCCGAGCGT 297  
Group07 CGAATCTTTGAACGCACATTGCGCCCGCCAGTACTCTGGCGGGCATGCCTGTCCGAGCGT 298  
Group04 CGAATCTTTGAACGCACATTGCGCCCGCCAGTACTCTGGCGGGCATGCCTGTCCGAGCGT 295  
Group10 CGAATCTTTGAACGCACATTGCGCCCGCCAGTACTCTGGCGGGCATGCCTGTCCGAGCGT 298  
Group08 CGAATCTTTGAACGCACATTGCGCCCGCCAGTACTCTGGCGGGCATGCCTGTCCGAGCGT 298  
Group02 CGAATCTTTGAACGCACATTGCGCCCGCCAGTACTCTGGCGGGCATGCCTGTCCGAGCGT 297  
Group03 CGAATCTTTGAACGCACATTGCGCCCGCCAGTACTCTGGCGGGCATGCCTGTCCGAGCGT 296  
Group05 CGAATCTTTGAACGCACATTGCGCCCGCCAGTACTCTGGCGGGCATGCCTGTCCGAGCGT 297  
Group11 CGAATCTTTGAACGCACATTGCGCCCGCCAGTACTCTGGCGGGCATGCCTGTCCGAGCGT 297  
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Group09 CATTTC AACCCCTCAGCACCCCGTTTCGCGGCGGGAGCTGGCGTTGGGGATCGGCCGTCCT 357  
Group06 CATTTC AACCCCTCAGCACCCCGTTTCGCGGCGGGAGCTGGCGTTGGGGATCGGCCGTCCT 358  
Group01 CATTTC AACCCCTCAGCACCCCGTTTCGCGGCGGGAGCTGGCGTTGGGGATCGGCCGTCCT 357  
Group07 CATTTC AACCCCTCAGCACCCCGTTTCGCGGCGGGAGCTGGCGTTGGGGATCGGCCGTCCT 358  
Group04 CATTTC AACCCCTCAGCACCCCGTTTCGCGGCGGGAGCTGGCGTTGGGGATCGGCCGTCCT 355  
Group10 CATTTC AACCCCTCAGCACCCCGTTTCGCGGCGGGAGCTGGCGTTGGGGATCGGCCGTCCT 358  
Group08 CATTTC AACCCCTCAGCACCCCGTTTCGCGGCGGGAGCTGGCGTTGGGGATCGGCCGTCCT 358  
Group02 CATTTC AACCCCTCAGCACCCCGTTTCGCGGCGGGAGCTGGCGTTGGGGATCGGCCGTCCT 357  
Group03 CATTTC AACCCCTCAGCACCCCGTTTCGCGGCGGGAGCTGGCGTTGGGGATCGGCCGTCCT 356  
Group05 CATTTC AACCCCTCAGCACCCCGTTTCGCGGCGGGAGCTGGCGTTGGGGATCGGCCGTCCT 357  
Group11 CATTTC AACCCCTCAGCACCCCGTTTCGCGGCGGGAGCTGGCGTTGGGGATCGGCCGTCCT 357  
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Group09 CTGCGGCGGCCGCCCGAAACGAAGTGGCGGTCACGTCGCGACCTCCTCTGCGTAGTAG 417  
Group06 CTGCGGCGGCCGCCCGAAACGAAGTGGCGGTCACGTCGCGACCTCCTCTGCGTAGTAG 418  
Group01 CTGCGGCGGCCGCCCGAAACGAAGTGGCGGTCACGTCGCGACCTCCTCTGCGTAGTAG 417  
Group07 CTGCGGCGGCCGCCCGAAACGAAGTGGCGGTCACGTCGCGACCTCCTCTGCGTAGTAG 418  
Group04 CTGCGGCGGCCGCCCGAAACGAAGTGGCGGTCACGTCGCGACCTCCTCTGCGTAGTAG 415  
Group10 CTGCGGCGGCCGCCCGAAACGAAGTGGCGGTCACGTCGCGACCTCCTCTGCGTAGTAG 418  
Group08 CTGCGGCGGCCGCCCGAAACGAAGTGGCGGTCACGTCGCGACCTCCTCTGCGTAGTAG 418  
Group02 CTGCGGCGGCCGCCCGAAACGAAGTGGCGGTCACGTCGCGACCTCCTCTGCGTAGTAG 417  
Group03 CTGCGGCGGCCGCCCGAAACGAAGTGGCGGTCACGTCGCGACCTCCTCTGCGTAGTAG 416  
Group05 CTGCGGCGGCCGCCCGAAACGAAGTGGCGGTCACGTCGCGACCTCCTCTGCGTAGTAG 417  
Group11 CTGCGGCGGCCGCCCGAAACGAAGTGGCGGTCACGTCGCGACCTCCTCTGCGTAGTAG 417  
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Group09 CAATATCTCGCAGCCTGGATAGCGGCGCGGCCACGCCGTAAAACCCCAACTATACCAAGG 477  
Group06 CAATATCTCGCAGCCTGGATAGCGGCGCGGCCACGCCGTAAAACCCCAACTATACCAAGG 478  
Group01 CAATATCTCGCAGCCTGGATAGCGGCGCGGCCACGCCGTAAAACCCCAACTATACCAAGG 477  
Group07 CAATATCTCGCAGCCTGGATAGCGGCGCGGCCACGCCGTAAAACCCCAACTATACCAAGG 478  
Group04 CAATATCTCGCAGCCTGGATAGCGGCGCGGCCACGCCGTAAAACCCCAACTATACCAAGG 475  
Group10 CAATATCTCGCAGCCTGGATAGCGGCGCGGCCACGCCGTAAAACCCCAACTATACCAAGG 478  
Group08 CAATATCTCGCAGCCTGGATAGCGGCGCGGCCACGCCGTAAAACCCCAACTATACCAAGG 478  
Group02 CAATATCTCGCAGCCTGGATAGCGGCGCGGCCACGCCGTAAAACCCCAACTATACCAAGG 477  
Group03 CAATATCTCGCAGCCTGGATAGCGGCGCGGCCACGCCGTAAAACCCCAACTATACCAAGG 476  
Group05 CAATATCTCGCAGCCTGGATAGCGGCGCGGCCACGCCGTAAAACCCCAACTATACCAAGG 477  
Group11 CAGTATCTCGCAGCCTGGATAGCGGCGCGGCCACGCCGTAAAACCCCAACTATACCAAGG 477  
**Loci** \*\*7\*\*\*\*\*

Group09 TTGACCTCGGATCAGGTAGGAATACCCGCTGAACTTAA 515  
Group06 TTGACCTCGGATCAGGTAGGAATACCCGCTGAACTTAA 516  
Group01 TTGACCTCGGATCAGGTAGGAATACCCGCTGAACTTAA 515  
Group07 TTGACCTCGGATCAGGTAGGAATACCCGCTGAACTTAA 516  
Group04 TTGACCTCGGATCAGGTAGGAATACCCGCTGAACTTAA 513  
Group10 TTGACCTCGGATCAGGTAGGAATACCCGCTGAACTTAA 516  
Group08 TTGACCTCGGATCAGGTAGGAATACCCGCTGAACTTAA 516  
Group02 TTGACCTCGGATCAGGTAGGAATACCCGCTGAACTTAA 515  
Group03 TTGACCTCGGATCAGGTAGGAATACCCGCTGAACTTAA 514  
Group05 TTGACCTCGGATCAGGTAGGAATACCCGCTGAACTTAA 515  
Group11 TTGACCTCGGATCAGGTAGGAATACCCGCTGAACTTAA 515  
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**BT**

K CCAGAAGGCAGCACCAATCTGGTTACCCTGTTGGATTGAAAAGACGAGAGTCAGTGTCT 60  
E CCAGAAGGCAGCACCAATCTGGTTACCCTGTTGGATTGAAAAGACGAGAGTCAGTGTCT 60  
A CCAGAAGGCAGCACCAATCTGGTTACCCTGTTGGATTGAAAAGACGAGAGTCAGTGTCT 60  
I CCAGAAGGCAGCACCAATCTGGTTACCCTGTTGGATTGAAAAGACGAGAGTCAGTGTCT 60  
D CCAGAAGGCAGCACCAATCTGGTTACCCTGTTGGATTGAAAAGACGAGAGTCAGTGTCT 60  
G CCAGAAGGCAGCACCGATCTGGTTACCCTGTTGGATTGAAAAGACGAGAGTCAGTGTCT 60  
P CCAGAAGGCAGCACCGATCTGGTTACCCTGTTGGATTGAAAAGACGAGAGTCAGTGTCT 60  
Q CCAGAAGGCAGCACCGATCTGGTTACCCTGTTGGATTGAAAAGACGAGAGTCAGTGTCT 60  
J CCAGAAGGCAGCACCGATCTGGTTACCCTGTTGGATTGAAAAGACGAGAGTCAGTGTCT 60  
R CCAGAAGGCAGCACCGATCTGGTTACCCTGTTGGATTGAAAAGACGAGAGTCAGTGTCT 60  
C CCAGAAGGCAGCACCGATCTGGTTACCCTGTTGGATTGAAAAGACGAGAGTCAGTGTCT 60  
B CCAGAAGGCAGCACCGATCTGGTTACCCTGTTGGATTGAAAAGACGAGAGTCAGTGTCT 60  
O CCAGAAGGCAGCACCGATCTGGTTACCCTGTTGGATTGAAAAGACGAGAGTCAGTGTCT 60  
M CCAGAAGGCAGCACCGATCTGGTTACCCTGTTGGATTGAAAAGACGAGAGTCAGTGTCT 60  
H CCAGAAGGCAGCACCGATCTGGTTACCCTGTTGGATTGAAAAGACGAGAGTCAGTGTCT 60  
F CCAGAAGGCAGCACCGATCTGGTTACCCTGTTGGATTGAAAAGACGAGAGTCAGTGTCT 60  
**Loci** \*\*\*\*\*8\*\*\*\*\*

K GACCGCACGAAAATAGAGCGCGTAATAGGCTGGACAGGAAGAGGTAGAGAGGGGAGGCCAA 120  
E GACCGCACGAAAATAGAGCGCGTAATAGGCTGGACAGGAAGAGGTAGAGAGGGGAGGCCAA 120  
A GACCGCACGAAAATAGAGCGCGTAATAGGCTGGACAGGAAGAGGTAGAGAGGGGAGGCCAA 120  
I GACCGCACGAAAATAGAGCGCGTAATAGGCTGGACAGGAAGAGGTAGAGAGGGGAGGCCAA 120  
D GACCGCACGAAAATAGAGCGCGTAATAGGCTGGACAGGAAGAGGTAGAGAGGGGAGGCCAA 120  
G GACCGCACGAAAATAGAGCGCGTAATAGGCTGGACAGGAAGAGGTAGAGAGGGGAGGCCAA 120  
P GACCGCACGAAAATAGAGCGCGTAATAGGCTGGACAGGAAGAGGTAGAGAGGGGAGGCCAA 120  
Q GACCGCACGAAAATAGAGCGCGTAATAGGCTGGACAGGAAGAGGTAGAGAGGGGAGGCCAA 120  
J GACCGCACGAAAATAGAGCGCGTAATAGGCTGGACAGGAAGAGGTAGAGAGGGGAGGCCAA 120  
R GACCGCACGAAAATAGAGCGCGTAATAGGCTGGACAGGAAGAGGAAGAGAGGGGAGGCCAA 120  
C GACCGCACGAAAATAGAGCGCGTAATAGGCTGGACAGGAAGAGGTAGAGAGGGGAGGCCAA 120  
B GACCGCACGAAAATAGAGCGCGTAATAGGCTGGACAGGAAGAGGTAGAGAGGGGAGGCCAA 120  
O GACCGCACGAAAATAGAGCGCGTAATAGGCTGGACAGGAAGAGGTAGAGAGGGGAGGCCAA 120  
M GACCGCACGAAAATAGAGCGCGTAATAGGCTGGACAGGAAGAGGAAGAGAGGGGAGGCCAA 120  
H GACCGCACGAAAATAGAGCGCGTAATAGGCTGGACAGGAAGAGGTAGAGAGGGGAGGCCAA 120  
F GACCGCACGAAAATAGAGCGCGTAATAGGCTGGACAGGAAGAGGTAGAGAGGGGAGGCCAA 120  
**Loci** \*\*\*\*\*9\*\*1\*\*\*\*\*

0

K AGAGACGCCATCTCCCTCACCTTCCTGCCGTCTATTCTTCTTCCAGGGGTGGTATCAAC 180  
E AGAGACGCCATCTCCCTCACCTTCCTGCCGTCTATTCTTCTTCCAGGGGTGGTATCAAC 180  
A AGAGACGCCATCTCCCTCACCTTCCTGCCGTCTATTCTTCTTCCAGGGGTGGTATCAAC 180  
I AGAGACGCCATCTCCCTCACCTTCCTGCCGTCTATTCTTCTTCCAGGGGTGGTATCAAC 180  
D AGAGACGCCATCTCCCTCACCTTCCTGCCGTCTATTCTTCTTCCAGGGGTGGTATCAAC 180  
G AGAGACGCCATCTCCCTCACCTTCCTGCCGTCTATTCTTCTTCCAGGGGTGGTATCAAC 180  
P AGAGACGCCATCTCCCTCACCTTCCTGCCGTCTGTTCTTCTTCCAGGGGTGGTATCAAC 180  
Q AGAGACGCCATCTCCCTCACCTTCCTGCCGTCTGTTCTTCTTCCAGGGGTGGTATCAAC 180  
J AGAGACGCCATCTCCCTCACCTTCCTGCCGTCTGTTCTTCTTCCAGGGGTGGTATCAAC 180  
R AGAGACGCCATCTCCCTCACCTTCCTGCCGTCTATTCTTCTTCCAGGGGTGGTATCAAC 180  
C AGAGACGCCATCTCCCTCACCTTCCTGCCGTCTATTCTTCTTCCAGGGGTGGTATCAAC 180  
B AGAGACGCCATCTCCCTCACCTTCCTGCCGTCTATTCTTCTTCCAGGGGTGGTATCAAC 180  
O AGAGACGCCATCTCCCTCACCTTCCTGCCGTCTATTCTTCTTCCAGGGGTGGTATCAAC 180  
M AGAGACGCCATCTCCCTCACCTTCCTGCCGTCTATTCTTCTTCCAGGGGTGGTATCAAC 180  
H AGAGACGCCATCTCCCTCACCTTCCTGCCGTCTATTCTTCTTCCAGGGGTGGTATCAAC 180  
F AGAGATGCCATCTCCCTCACCTTCCTGCCGTCTATTCTTCTTCCAGGGGTGGTATCAAC 180  
**Loci** \*\*\*\*\*1\*\*\*\*\*1\*\*\*\*\*

1

2

K TTACGCACTGGCCGGTCTGGAGGTGAACCTATTTGAGAGGGGACAAACACGTCGTTAGCT 240  
E TTACGCACTGGCCGGTCTGGAGGTGAACCTATTTGAGAGGGGACAAACACGTCGTTAGCT 240  
A TTACGCACTGGCCGGTCTGGAGGTGAACCTATTTGAGAGGGGACAAACACGTCGTTAGCT 240  
I TTACGCACTGGCCGGTCTGGAGGTGAACCTATTTGAGAGGGGACAAACACGTCGTTAGCT 240  
D TTACGCACTGGCCGGTCTGGAGGTGAACCTATTTGAGAGGGGACAAACACGTCGTTAGCT 240  
G TTACGCACTGGCCGGTCTGGAGGTGAACCTATTTGAGAGGGGACAAACACGTCGTTAGCT 240  
P TTACGCACTGGCCGGTCTGGAGGTGAACCTATTTGAGAGGGGACAAACACGTCGTTAGCT 240  
Q TTACGCACTGGCCGGTCTGGAGGTGAACCTATTTGAGAGGGGACAAACACGTCGTTAGCT 240  
J TTACGCACTGGCCGGTCTGGAGGTGAACCTATTTGAGAGGGGACAAACACGTCGTTAGCT 240  
R TTACGCACTGGCCGGTCTGGAGGTGAACCTATTTGAGAGGGGACAAACACGTCGTTAGCT 240  
C TTACGCACTGGCCGGTCTGGAGGTGAACCTATTTGAGAGGGGACAAACACGTCGTTAGCT 240  
B TTACGCACTGGCCGGTCTGGAGGTGAACCTATTTGAGAGGGGACAAACACGTCGTTAGCT 240  
O TTACGCACTGGCCGGTCTGGAGGTGAACCTATTTGAGAGGGGACAAACACGTCGTTAGCT 240  
M TTACGCACTGGCCGGTCTGGAGGTGAACCTATTTGAGAGGGGACAAACACGTCGTTAGCT 240  
H TTACGCACTGGCCGGTCTGGAGGTGAACCTATTTGAGAGGGGACAAACACGTCGTTAGCT 240  
F TTACGCACTGGCCGGTCTGGAGGTGAACCTATTTGAGAGGGGACAAACACGTCGTTAGCA 240  
**Loci** \*\*\*\*\*1\*\*\*\*\*1\*\*\*\*\*1  
3 4 5

K AAAGATTCGACTGACGCAAAGCTGCGAGACCCTTTCTCGTTTCTCCTCGCCTGT--CC 300  
E AAAGATTCGACTGACGCAAAGCTGCGAGACCCTTTCTCGTTTCTCCTCGCCTGT--CC 300  
A AAAGATTCGACTGACGCAAAGCTGCGAGACCCTTTCTCGTTTCTCCTCGCCTGT-CCCC 300  
I AAAGATTCGACTGACGCAAAGCTGCGAGACCCTTTCTCGTTTCTCCTCGCCTGT-CCCC 300  
D AAAGATTCGACTGACGCAAAGCTGCGAGACCCTTTCTCGTTTCTCCTCGCCTGT-CCCC 300  
G AAAGATTCGACTGACGCAAAGCTGCGAGACCCTTTCTCGTTTCTCCTCGCCTGT-CCCC 300  
P AAAGATTCGACTGACGCAAAGCTGCGAGACCCTTTCTCGTTTCTCCTCGCCTGT-CC 300  
Q AAAGATTCGACTGACGCAAAGCTGCGAGACCCTTTCTCGTTTCTCCTCGCCTGT--CC 299  
J AAAGATTCGACTGACGCAAAGCTGCGAGACCCTTTCTCGTTTCTCCTCGCCTGT-CCCC 300  
R AAAGATTCGACTGACGCAAAGCTGCGAGACCCTTTCTCGTTTCTCCTCGCCTGT--CC 299  
C AAAGATTCGACTGACGCAAAGCTGCGAGACCCTTTCTCGTTTCTCCTCGCCTGT---CC 298  
B AAAGATTCGACTGACGCAAAGCTGCGAGACCCTTTCTCGTTTCTCCTCGCCTGT--CC 299  
O AAAGATTCGACTGACGCAAAGCTGCGAGACCCTTTCTCGTTTCTCCTCGCCTGT--CC 299  
M AAAGATTCGACTGACGCAAAGCTGCGAGACCCTTTCTCGTTTCTCCTCGCCTGT-CCCC 300  
H AAAGATTCGACTGACGCAAAGCTGCGAGACCCTTTCTCGTTTCTCCTCGCCTGT-CCCC 300  
F AAAGATTCGACTGACGCAAAGCTGCGAGACCCTTTCTCGTTTCTCCTCGCCTGT--CCCC 300  
**Loci** \*\*\*\*\*1111\*\*  
6789

K CCCCCTTTTGGGTTGGAATGTTGACTTGGGTGCACGTTGGCCGGCGGGGTAATAGAAAAGAG 361  
E CCCCCTTTTGGGTTGGAATGTTGACTTGGGTGCACGTTGGCCGGCGGGGTAATAGAAAAGAG 360  
A CCCCCTTTTGGGTTGGAATGTTGACTTGGGTGCACGTTGGCCGGCGGGGTAATAGAAAAGAG 362  
I CCCCCTTTTGGGTTGGAATGTTGACTTGGGTGCACGTTGGCCGGCGGGGTAATAGAAAAGAG 363  
D CCCCCTTTTGGGTTGGAATGTTGACTTAGGTGCACGTTGGCCGGCGGGGTAATAGAAAAGAG 362  
G CCCCCTTTTGGGTTGGAATGTTGACTTAGGTGCACGTTGGCCGGCGGGGTAATAGAAAAGAG 362  
P CCCCCTTTTGGGTTGGAATGTTGACTTGGGTGCACGTTGGCCGGCGGGGTAATAGAAAAGAG 362  
Q CCCCCTTTTGGGTTGGAATGTTGACTTGGGTGCACGTTGGCCGGCGGGGTAATAGAAAAGAG 361  
J CCCCCTTTTGGGTTGGAATGTTGACTTGGGTGCACGTTGGCCGGCGGGGTAATAGAAAAGAG 362  
R CCCCCTTTTGGGTTGGAATGTTGACTTGGGTGCACGTTGGCCGGCGGGGTAATAGAAAAGAG 361  
C CCCCCTTTTGGGTTGGAATGTTGACTTGGGTGCACGTTGGCCGGCGGGGTAATAGAAAAGAG 360  
B CCCCCTTTTGGGTTGGAATGTTGACTTGGGTGCACGTTGGCCGGCGGGGTAATAGAAAAGAG 361  
O CCCCCTTTTGGGTTGGAATGTTGACTTGGGTGCACGTTGGCCGGCGGGGTAATAGAAAAGAG 361  
M CCCCCTTTTGGGTTGGAATGTTGACTTGGGTGCACGTTGGCCGGCGGGGTAATAGAAAAGAG 362  
H CCCCCTTTTGGGTTGGAATGTTGACTTGGGTGCACGTTGGCCGGCGGGGTAATAGAAAAGAG 362  
F CCCCCTTTTGGGTTGGAATGTTGACTTGGGTGCACGTTGGCCGGCGGGGTAATAGAAAAGAG 361  
**Loci** \*\*\*\*\*2\*\*\*\*\*  
0

**MAP**

α GGG**A**CT**G**CTATCAATTTGCTGATTGGATATATACCAGGCCTACCCTTCTCCTCTCAACTA 60  
δ GGG**A**CT**A**CTATCAATTTGCTGATTGGATATATACCAGGCCTACCCTTCTCCTCTCAACTA 60  
β GGG**A**CT**G**CTATCAATTTGCTGATTGGATATATACCAGGCCTACCCTTCTCCTCTCAACTA 60  
γ GGG**G**CT**G**CTATCAATTTGCTGATTGGATATATACCAGGCCTACCCTTCTCCTCTCAACTA 60  
**Loci** \*\*\***2**\*\*\***2**\*\*\*\*\*

1 2

α CAACAATTTCCCCAAGTCTTGTGTGACATCGATAAACGAAGTCATTTGCCA**C**GGCATTCC 120  
δ CAACAATTTCCCCAAGTCTTGTGTGACATCGATAAACGAAGTCATTTGCCA**C**GGCATTCC 120  
β CAACAATTTCCCCAAGTCTTGTGTGACATCGATAAACGAAGTCATTTGCCA**T**GGCATTCC 120  
γ CAACAATTTCCCCAAGTCTTGTGTGACATCGATAAACGAAGTCATTTGCCA**C**GGCATTCC 120  
**Loci** \*\*\*\*\***2**\*\*\*\*\*  
3

α CGACCAGCGAGTCCTCCTCGACGGAGACAT**C**CTCAATATCGAC**G**TTTCCCTCTACC**C**GA 180  
δ CGACCAGCGAGTCCTCCTCGACGGAGACAT**C**CTCAATATCGAC**G**TTTCCCTCTACC**T**GA 180  
β CGACCAGCGAGTCCTCCTCGACGGAGACAT**C**CTCAATATCGAC**G**TTTCCCTCTACC**C**GA 180  
γ CGACCAGCGAGTCCTCCTCGACGGAGACAT**T**CTCAATATCGAC**A**TTTCCCTCTACC**C**GA 180  
**Loci** \*\*\*\*\***2**\*\*\*\*\***2**\*\*\*\*\***2**\*\*\*  
4 5 6

α AGGCTACCA**T**GCCGATTTGAATGAGACATACTACATTGGCGACAAGGCCAAAGCAGATCC 240  
δ AGGCTACCA**T**GCCGATTTGAATGAGACATACTACATTGGCGACAAGGCCAAAGCAGATCC 240  
β AGGCTACCA**T**GCCGATTTGAATGAGACATACTACATTGGCGACAAGGCCAAAGCAGATCC 240  
γ AGGCTACCA**C**GCCGATTTGAATGAGACATACTACATTGGCGACAAGGCCAAAGCAGATCC 240  
**Loci** \*\*\*\*\***2**\*\*\*\*\*  
7

α CGATAGTGTGCGCGTCGTCGAGGCGGCCCGTGAGTGCC**T**GGAAGAATCCATCAAGGCCGT 300  
δ CGATAGTGTGCGCGTCGTCGAGGCGGCCCGTGAGTGCC**T**GGAAGAATCCATCAAGGCCGT 300  
β CGATAGTGTGCGCGTCGTCGAGGCGGCCCGTGAGTGCC**T**GGAAGAATCCATCAAGGCCGT 300  
γ CGATAGTGTGCGCGTCGTCGAGGCGGCCCGTGAGTGCC**T**GGAAGAATCCATCAAGGCCGT 300  
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α CAAGCCGGGCACCTTGATCCGTGAATTCGGAAACATCATTGAGAAGCATGCCAAGGCCAAA 360  
δ CAAGCCGGGCACCTTGATCCGTGAATTCGGAAACATCATTGAGAAGCATGCCAAGGCCAAA 360  
β CAAGCCGGGCACCTTGATCCGTGAATTCGGAAACATCATTGAGAAGCATGCCAAGGCCAAA 360  
γ CAAGCCGGGCACCTTGATCCGTGAATTCGGAAACATCATTGAGAAGCATGCCAAGGCCAAA 360  
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α GAATT 365  
δ GAATT 365  
β GAATT 365  
γ GAATT 365  
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