

# Figure S1

Reference Sequenced 60  
GGTGGAAAGATGAGCAGAAGCCCTGTTCTCGGAACGCCGGCTGACAAGCGGGGTGAGCG  
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Reference Sequenced 120  
CAGCCGGGGCGGGACCCAGCCTAGCCACTGGAGCAGCCGGGGTGGCCCGTTCCCCCTT  
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Reference Sequenced 180  
TAAGACAACTGCTCTAAGCCAGGAGCCAGAGATTCGAGCCGGCCTCGCCAGCCAGCCC  
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Reference Sequenced 240  
TCTCCAGCGAGGGGACCCACAAGCGCGCCTCGGCCCTCCCGACTTTCCGAGCCCTCTT  
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Reference Sequenced 300  
TGCCCTTGGGCGCACGGGCCCTACACGCGCCAAGCATGCTGAGGGTCTTCATCCTCTA  
-----ATGCTGAGGGTCTTCATCCTCTA  
\*\*\*\*\*  
23

Reference Sequenced 360  
TGCCGAGAAGCTCCACACACCCGACACCGACATCAGCGATGCCTACTGCTCCGCGGTGTT  
360  
TGCCGAGAAGCTCCACACACCCGACACCGACATCAGCGATGCCTACTGCTCCGCGGTGTT  
83  
\*\*\*\*\*

Reference Sequenced 420  
TGAGGGGTGAAGAAGAGAACCAAAGTCATCAAGAACAGCGTGAACCTGTATGGAATGA  
420  
TGAGGGGTGAAGAAGAGAACCAAAGTCATCAAGAACAGCGTGAACCTGTATGGAATGA  
143  
\*\*\*\*\*

Reference Sequenced 480  
GGGATTGTAATGGGACCTCAAGGGCATCCCCCTGGACCAGGGCTCTGAGCTTCATGTGGT  
480  
GGGATTGTAATGGGACCTCAAGGGCATCCCCCTGGACCAGGGCTCTGAGCTTCATGTGGT  
203  
\*\*\*\*\*

Reference Sequenced 540  
GGTCAAAGACCATGAGACGATGGGGAGGAACAGGTTCTGGGGGAAGCCAAGTCCCACT  
540  
GGTCAAAGACCATGAGACGATGGGGAGGAACAGGTTCTGGGGGAAGCCAAGTCCCACT  
263  
\*\*\*\*\*

Reference Sequenced 600  
CCGAGAGGTCCTCGCCACCCCTAGTCTGTCCGCGAGCTTCAATGCCCCCTGCTGGACAC  
600  
CCGAGAGGTCCTCGCCACCCCTAGTCTGTCCGCGAGCTTCAATGCCCCCTGCTGGACAC  
323  
\*\*\*\*\*

Reference Sequenced 660  
CAAGAAGCAGCCACAGGGCCTCGCTGGTCTGCAGGTGCTTACACACCGTGCCTGG  
660  
CAAGAAGCAGCCACAGGGCCTCGCTGGTCTGCAGGTGCTTACACACCGTGCCTGG  
383  
\*\*\*\*\*

Reference Sequenced 720  
AGCTGTGCCCTGTTCCCGCCCTACTCCTCTGGAGCCCTCCCGACTCTGCCTGACCT  
720  
AGCTGTGCCCTGTTCCCGCCCTACTCCTCTGGAGCCCTCCCGACTCTGCCTGACCT  
443  
\*\*\*\*\*

Reference Sequenced 780  
GGATGTAGTGGCAGACACAGGAGGAGAGAACACAGAGGACCAGGGACTCACTGGAGA  
780  
GGATGTAGTGGCAGACACAGGAGGAGAGAACACAGAGGACCAGGGACTCACTGGAGA  
503  
\*\*\*\*\*

Reference Sequenced 840  
TGAGCGGAGCCATTCTGGATCAAAGCGGAGGCCGGGGCTCCACCACCCCAAGGAA  
840  
TGAGCGGAGCCATTCTGGATCAAAGCGGAGGCCGGGGCTCCACCACCCCAAGGAA  
563  
\*\*\*\*\*

Reference Sequenced 900  
ACTACCTTACGTCTCCGCCCACTACCCCGGATCAAAGAAAGCGAAGTGCCTTAC  
900  
ACTACCTTACGTCTCCGCCCACTACCCCGGATCAAAGAAAGCGAAGTGCCTTAC  
623  
\*\*\*\*\*

Reference Sequenced 960  
ATCTAGAAAGCTGCTGTACAGCAAACCGCAGGATTTCCAGATCAGGGTCCAGGTGATCGA  
960  
ATCTAGAAAGCTGCTGTACAGCAAACCGCAGGATTTCCAGATCAGGGTCCAGGTGATCGA  
683  
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Reference Sequenced 1020  
GGGGCGCAGCTGCCGGGGTGAACATCAAGCCTGTGGTCAAGGTTACCGCTGCAGGGCA  
1020  
GGGGCGCAGCTGCCGGGGTGAACATCAAGCCTGTGGTCAAGGTTACCGCTGCAGGGCA  
743  
\*\*\*\*\*

Reference Sequenced 1080  
GACCAAGCGGACGCGGATCCACAAGGAAACAGCCCACTTCAATGAGACTCTTTCTT  
1080  
GACCAAGCGGACGCGGATCCACAAGGAAACAGCCCACTTCAATGAGACTCTTTCTT  
803  
\*\*\*\*\*

Reference Sequenced 1140  
CAACTGTTTGACTCTCCTGGGAGCTGTTTGTAGAGCCATCTTTATCAGGTGGTGA  
1140  
CAACTGTTTGACTCTCCTGGGAGCTGTTTGTAGAGCCATCTTTATCAGGTGGTGA  
863  
\*\*\*\*\*

Reference 1200  
CTCTCGTCTCTCAGGACAGATGCTCTCCTCGGGGAGTTCGGATGGACGTGGCCACCAT  
1200

Sequenced CTCTCGTTCTCTCAGGACAGATGCTCTCCTCGGGGAGTTCCGGATGGACGTGGGCACCAT 923  
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Reference TTACAGAGAGCCCCGGCAGCCTATCTCAGGAAGTGGCTGCTCTCAGACCTGATGA 1260  
Sequenced TTACAGAGAGCCCGGCAGCCTATCTCAGGAAGTGGCTGCTCTCAGACCTGATGA 983  
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Reference CTTCTCTGCTGGGGCCAGAGGCTACCTGAAAACAAGCCTTTGTGTCTGGGGCCTGGGA 1320  
Sequenced CTTCTCTGCTGGGGCCAGAGGCTACCTGAAAACAAGCCTTTGTGTCTGGGGCCTGGGA 1043  
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Reference CGAAGCGCCTCTGGAGAGAAAAGACCCCTCTGAAGACAAGGAGGACATTGAAAGCAACCT 1380  
Sequenced CGAAGCGCCTCTGGAGAGAAAAGACCCCTCTGAAGACAAGGAGGACATTGAAAGCAACCT 1103  
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Reference GCTCCGGCCACAGGCGTAGCCCTGCGAGGAGCCACTTCTGCTGAAGGTCTTCCGGGC 1440  
Sequenced GCTCCGGCCACAGGCGTAGCCCTGCGAGGAGCCACTTCTGCTGAAGGTCTTCCGGGC 1163  
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Reference CGAGGACTTGCCGAGATGGACGATGCCGTGATGGACAACGTGAAACAGATCTTTGGCTT 1500  
Sequenced CGAGGACTTGCCGAGATGGACGATGCCGTGATGGACAACGTGAAACAGATCTTTGGCTT 1223  
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Reference CGAGAGTAACAAGAAGAACTTGGTGGACCCCTTTGTGGAGGTCAGCTTTGCGGGGAAAAT 1560  
Sequenced CGAGAGTAACAAGAAGAACTTGGTGGACCCCTTTGTGGAGGTCAGCTTTGCGGGGAAAAT 1283  
\*\*\*\*\*

Reference GCTGTGCAGCAAGATCTTGAGAAGACGGCCAAACCCTCAGTGAACCAGAATCACACT 1620  
Sequenced GCTGTGCAGCAAGATCTTGAGAAGACGGCCAAACCCTCAGTGAACCAGAATCACACT 1343  
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Reference GCCTGCCATGTTTCCCTCCATGTGCGAAAAAATGAGGATTTCGTATCATAGACTGGGACCG 1680  
Sequenced GCCTGCCATGTTTCCCTCCATGTGCGAAAAAATGAGGATTTCGTATCATAGACTGGGACCG 1403  
\*\*\*\*\*

Reference CTTGACTCACAATGACATCGTGGCTACCACCTACCTGAGTATGTCGAAAATCTCTGCCC 1740  
Sequenced CTTGACTCACAATGACATCGTGGCTACCACCTACCTGAGTATGTCGAAAATCTCTGCCC 1463  
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Reference TGGAGGAGAAAATAGAAGAGGAGCCTGCAGGTGCTGTCAAGCCTTCGAAAGCCTCAGACTT 1800  
Sequenced TGGAGGAGAAAATAGAAGAGGAGCCTGCAGGTGCTGTCAAGCCTTCGAAAGCCTCAGACTT 1523  
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Reference GGATGACTACCTGGGCTTCTCCCACTTTTGGGCCCTGCTACATCAACTCTATGGCAG 1860  
Sequenced GGATGACTACCTGGGCTTCTCCCACTTTTGGGCCCTGCTACATCAACTCTATGGCAG 1583  
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Reference TCCCAGAGAGTTACAGGCTTCCCAGACCCCTACACAGAGCTCAACACAGGCAAGGGGGA 1920  
Sequenced TCCCAGAGAGTTACAGGCTTCCCAGACCCCTACACAGAGCTCAACACAGGCAAGGGGGA 1643  
\*\*\*\*\*

Reference AGGTGTGGCTTATCGTGGCCGGCTTCTGCTCTCCCTGGAGACCAAGCTGGTGGAGCACAG 1980  
Sequenced AGGTGTGGCTTATCGTGGCCGGCTTCTGCTCTCCCTGGAGACCAAGCTGGTGGAGCACAG 1703  
\*\*\*\*\*

Reference TGAACAGAAGGTGGAGACCTTCTGCGGATGACATCCTCCGGGTGGAGAAGTACCTTAG 2040  
Sequenced TGAACAGAAGGTGGAGACCTTCTGCGGATGACATCCTCCGGGTGGAGAAGTACCTTAG 1763  
\*\*\*\*\*

Reference GAGGCGCAAGTACTCCCTGTTTGGCGCCTTCTACTCAGCCACCATGCTGCAGGATGTGA 2100  
Sequenced GAGGCGCAAGTACTCCCTGTTTGGCGCCTTCTACTCAGCCACCATGCTGCAGGATGTGA 1823  
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Reference TGATGCCATCCAGTTTGGAGTCAAGTACCGGAACTACGGGAACAAGTTTCGACATGACCTG 2160  
Sequenced TGATGCCATCCAGTTTGGAGTCAAGTACCGGAACTACGGGAACAAGTTTCGACATGACCTG 1883  
\*\*\*\*\*

Reference CTTGCGCTGGCCTCCACCACTCAGTACAGCCTGTCAGTCTTTGACGGGTGCCACTACTA 2220  
Sequenced CTTGCGCTGGCCTCCACCACTCAGTACAGCCTGTCAGTCTTTGACGGGTGCCACTACTA 1943  
\*\*\*\*\*

Reference CTACCTACCCTGGGGTAACGTGAAACCTGTGGTGGTGTGTATCTACTGGGAGGACAT 2280  
Sequenced CTACCTACCCTGGGGTAACGTGAAACCTGTGGTGGTGTGTATCTACTGGGAGGACAT 2003  
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Reference CAGCCATAGAATCGAGACTCAGAACCAGCTGCTTGGGATTGCTGACCGGTGGAAGCTGG 2340  
Sequenced CAGCCATAGAATCGAGACTCAGAACCAGCTGCTTGGGATTGCTGACCGGTGGAAGCTGG 2063  
\*\*\*\*\*

Reference CCTGGAGCAGGTCCACCTGGCCCTGAAGGCGCAGTGTCTCCACGGAGGACGTGGACTCGCT 2400  
Sequenced CCTGGAGCAGGTCCACCTGGCCCTGAAGGCGCAGTGTCTCCACGGAGGACGTGGACTCGCT 2123

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Reference      GGTTGGCTCAGCTGACGGATGAGCTCATCGCAGGCTGCAGCCAGCCTCTGGGTGACATCCA 2460
Sequenced     GGTTGGCTCAGCTGACGGATGAGCTCATCGCAGGCTGCAGCCAGCCTCTGGGTGACATCCA 2183
*****

Reference      TGAGACACCTCTGCCACCCACCTGGACCAGTACCTGTACCAGCTGCGCACCCATCACCT 2520
Sequenced     TGAGACACCTCTGCCACCCACCTGGACCAGTACCTGTACCAGCTGCGCACCCATCACCT 2243
*****

Reference      GAGCCAAATCACTGAGGCTGCCCTGGCCCTGAAGCTCGGCCACAGTGAGCTCCCTGCAGC 2580
Sequenced     GAGCCAAATCACTGAGGCTGCCCTGGCCCTGAAGCTCGGCCACAGTGAGCTCCCTGCAGC 2303
*****

Reference      TCTGGAGCAGGCGGAGGACTGGCTCCTGCGTCTGCGTGCCCTGGCAGAGGAGCCCAGAA 2640
Sequenced     TCTGGAGCAGGCGGAGGACTGGCTCCTGCGTCTGCGTGCCCTGGCAGAGGAGCCCAGAA 2363
*****

Reference      CAGCTGCCGGACATCGTCATCTGGATGTGACGGGAGACAAGCGTGTGGCATAACCAGCG 2700
Sequenced     CAGCTGCCGGACATCGTCATCTGGATGTGACGGGAGACAAGCGTGTGGCATAACCAGCG 2423
*****

Reference      GGTGCCCGCCACCAAGTCTTCTCTCCCGCGGGGTGCCAACTACTGTGGCAAGAATTG 2760
Sequenced     GGTGCCCGCCACCAAGTCTTCTCTCCCGCGGGGTGCCAACTACTGTGGCAAGAATTG 2483
*****

Reference      TGGGAAGCTACAGACAATCTTTCTGAAATATCCGATGGAGAAGGTGCCTGGCGCCCGAT 2820
Sequenced     TGGGAAGCTACAGACAATCTTTCTGAAATATCCGATGGAGAAGGTGCCTGGCGCCCGAT 2543
*****

Reference      GCCAGTGCAGATACGGGTCAAGCTGTGGTTTGGGCTCTCTGTGGATGAGAAGGAGTTCAA 2880
Sequenced     GCCAGTGCAGATACGGGTCAAGCTGTGGTTTGGGCTCTCTGTGGATGAGAAGGAGTTCAA 2603
*****

Reference      CCAGTTGTGAGGGGAAGCTGTCTGTCTTTGCTGAAACCTATGAGAACGAGACTAAGTT 2940
Sequenced     CCAGTTGTGAGGGGAAGCTGTCTGTCTTTGCTGAAACCTATGAGAACGAGACTAAGTT 2663
*****

Reference      GGCCCTTGTGTGGGAAGTGGGGCACAACGGGCCTCACCTACCCCAAGTTTCTGACGTAC 3000
Sequenced     GGCCCTTGTGTGGGAAGTGGGGCACAACGGGCCTCACCTACCCCAAGTTTCTGACGTAC 2723
*****

Reference      GGGCAAGATCAAGCTACCCAAGGACAGCTTCCGCCCTCGCCGGCTGGACCTGGGCTGG 3060
Sequenced     GGGCAAGATCAAGCTACCCAAGGACAGCTTCCGCCCTCGCCGGCTGGACCTGGGCTGG 2783
*****

Reference      AGATTGGTTCTGTGTGTCGGGAGAACTCTGCTCCATGACATGGACGCCGGTACCTGAG 3120
Sequenced     AGATTGGTTCTGTGTGTCGGGAGAACTCTGCTCCATGACATGGACGCCGGTACCTGAG 2843
*****

Reference      CTTCGTGGAAGAGGTGTTTGAGAACCAGACCCGGCTTCCCGGAGGCGAGTGGATCTACAT 3180
Sequenced     CTTCGTGGAAGAGGTGTTTGAGAACCAGACCCGGCTTCCCGGAGGCGAGTGGATCTACAT 2903
*****

Reference      GAGTGACAACCTACCCGATGTGAACGGGAGAAAGGTGCTTCCAAGGATGACATTGAGTG 3240
Sequenced     GAGTGACAACCTACCCGATGTGAACGGGAGAAAGGTGCTTCCAAGGATGACATTGAGTG 2963
*****

Reference      CCCACTGGGCTGGAAGTGGGAAGATGAGGAATGGTCCACAGACCTCAACCGGGCTGTGCA 3300
Sequenced     CCCACTGGGCTGGAAGTGGGAAGATGAGGAATGGTCCACAGACCTCAACCGGGCTGTGCA 3023
*****

Reference      TGAGCAAGGCTGGGAGTATAGCATCACCATCCCCCGAGCGGAAGCAGCACTGGGT 3360
Sequenced     TGAGCAAGGCTGGGAGTATAGCATCACCATCCCCCGAGCGGAAGCAGCACTGGGT 3083
*****

Reference      CCCTGTGAGAAGATGTACTACACACACCGACGGCGCGCTGGGTGCGCCTGCGCAGGAG 3420
Sequenced     CCCTGTGAGAAGATGTACTACACACACCGACGGCGCGCTGGGTGCGCCTGCGCAGGAG 3143
*****

Reference      GGATCTCAGCCAATGGAAGCACTGAAAAGGCACAGGCAGGCGGAGGCGGAGGGCGAGGG 3480
Sequenced     GGATCTCAGCCAATGGAAGCACTGAAAAGGCACAGGCAGGCGGAGGCGGAGGGCGAGGG 3203
*****

Reference      CTGGGAGTACGCCTCTCTTTTGGCTGGAAGTTCCACCTCGAGTACCGCAAGCAGATGC 3540
Sequenced     CTGGGAGTACGCCTCTCTTTTGGCTGGAAGTTCCACCTCGAGTACCGCAAGCAGATGC 3263
*****

Reference      CTTCGCCCGCCCGCTGGCGCCGTCGCATGGAGCCACTGGAGAAGACGGGCCTGCAGC 3600
Sequenced     CTTCGCCCGCCCGCTGGCGCCGTCGCATGGAGCCACTGGAGAAGACGGGCCTGCAGC 3323
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Reference	TGTGTTTGCCCTTGAGGGGCGCTGGGCGCGTGATGGATGACAAGAGTGAAGATTCCAT	3660
Sequenced	TGTGTTTGCCCTTGAGGGGCGCTGGGCGCGTGATGGATGACAAGAGTGAAGATTCCAT	3383
	*****	
Reference	GTCCGCTCCACCTTGAGCTTCGGTGTGAACAGACCCACGATTCCTGCATATTCGACTA	3720
Sequenced	GTCCGCTCCACCTTGAGCTTCGGTGTGAACAGACCCACGATTCCTGCATATTCGACTA	3443
	*****	
Reference	TGGGAACCGCTACCATCTACGCTGTACATGTACCAGGCCCGGACCTGGCTGCGATGGA	3780
Sequenced	TGGGAACCGCTACCATCTACGCTGTACATGTACCAGGCCCGGACCTGGCTGCGATGGA	3503
	*****	
Reference	CAAGGACTCTTTTCTGATCCCTATGCCATCGTCTCCTTCCTGCACCAGAGCCAGAAGAC	3840
Sequenced	CAAGGACTCTTTTCTGATCCCTATGCCATCGTCTCCTTCCTGCACCAGAGCCAGAAGAC	3563
	*****	
Reference	GGTGGTGGTGAAGAACACCCTTAACCCACCTGGGACCAGACGCTCATCTTCTACGAGAT	3900
Sequenced	GGTGGTGGTGAAGAACACCCTTAACCCACCTGGGACCAGACGCTCATCTTCTACGAGAT	3623
	*****	
Reference	CGAGATCTTTGGCGAGCCGCCACAGTTGCTGAGCAACCGCCAGCATTGTGGTGGAGCT	3960
Sequenced	CGAGATCTTTGGCGAGCCGCCACAGTTGCTGAGCAACCGCCAGCATTGTGGTGGAGCT	3683
	*****	
Reference	GTACGACCATGACACTTATGGTGCAGACGAGTTTATGGGTCGCTGCATCTGTCAACCGAG	4020
Sequenced	GTACGACCATGACACTTATGGTGCAGACGAGTTTATGGGTCGCTGCATCTGTCAACCGAG	3743
	*****	
Reference	TCTGGAACCGATGCCACGGCTGGCCTGGTTCCTGACGAGGGGCAGCCAGCCGTCGGG	4080
Sequenced	TCTGGAACCGATGCCACGGCTGGCCTGGTTCCTGACGAGGGGCAGCCAGCCGTCGGG	3803
	*****	
Reference	GGAGCTGCTGGCCTCTTTTGAGCTCATCCAGAGAGAGAAGCCGGCCATCCACCATATTCC	4140
Sequenced	GGAGCTGCTGGCCTCTTTTGAGCTCATCCAGAGAGAGAAGCCGGCCATCCACCATATTCC	3863
	*****	
Reference	TGGTTTTGAGGTGCAGGAGACATCAAGGATCCTGGATGAGTCTGAGGACACAGACCTGCC	4200
Sequenced	TGGTTTTGAGGTGCAGGAGACATCAAGGATCCTGGATGAGTCTGAGGACACAGACCTGCC	3923
	*****	
Reference	CTACCACCACCCAGAGGGAGGCCAACATCTACATGGTTCCCTCAGAACATCAAGCCAGC	4260
Sequenced	CTACCACCACCCAGAGGGAGGCCAACATCTACATGGTTCCCTCAGAACATCAAGCCAGC	3983
	*****	
Reference	GCTCCAGCGTACCGCCATCGAGATCCTGGCATGGGGCCTGCGGAACATGAAGAGTTACCA	4320
Sequenced	GCTCCAGCGTACCGCCATCGAGATCCTGGCATGGGGCCTGCGGAACATGAAGAGTTACCA	4043
	*****	
Reference	GCTGGCCAACATCTCTCCCCAGCCTCGTGGTAGAGTGTGGGGCCAGACGGTGCAGTC	4380
Sequenced	GCTGGCCAACATCTCTCCCCAGCCTCGTGGTAGAGTGTGGGGCCAGACGGTGCAGTC	4103
	*****	
Reference	CTGTGTCATCAGGAACCTCCGGAAGAACCCTTACATCTGCACCCCTTTCATGGA	4440
Sequenced	CTGTGTCATCAGGAACCTCCGGAAGAACCCTTACATCTGCACCCCTTTCATGGA	4163
	*****	
Reference	AGTGATGCTGCCAGGGAGGAGCTCTACTGCCCCCATCACCGTCAAGGTCATCGATAA	4500
Sequenced	AGTGATGCTGCCAGGGAGGAGCTCTACTGCCCCCATCACCGTCAAGGTCATCGATAA	4223
	*****	
Reference	CCGCCAGTTTGGCCGCGGCTGTGGTGGGCCAGTGTACCATCCGCTCCCTGGAGAGCTT	4560
Sequenced	CCGCCAGTTTGGCCGCGGCTGTGGTGGGCCAGTGTACCATCCGCTCCCTGGAGAGCTT	4283
	*****	
Reference	CCTGTGTACCCCTACTCGGCGGAGAGTCCATCCCCACAGGGTGGCCAGACGATGTGAG	4620
Sequenced	CCTGTGTACCCCTACTCGGCGGAGAGTCCATCCCCACAGGGTGGCCAGACGATGTGAG	4343
	*****	
Reference	CCTACTCAGTCTGGGGAAGACGTGCTCATCGACATTGATGACAAGGAGCCCTCATCCC	4680
Sequenced	CCTACTCAGTCTGGGGAAGACGTGCTCATCGACATTGATGACAAGGAGCCCTCATCCC	4403
	*****	
Reference	CATCCAGGAGGAAGAGTTCATCGATTGGTGGAGCAAATCTTTGCCTCCATAGGGGAGAG	4740
Sequenced	CATCCAGGAGGAAGAGTTCATCGATTGGTGGAGCAAATCTTTGCCTCCATAGGGGAGAG	4463
	*****	
Reference	GGAAAAGTGGGCTCCTACTGGAGAAGGATTTGACACCCTGAAGGTCTATGACACACA	4800
Sequenced	GGAAAAGTGGGCTCCTACTGGAGAAGGATTTGACACCCTGAAGGTCTATGACACACA	4523
	*****	

Reference	GCTGGAGAATGTGGAGGCCTTTGAGGGCCTGTCTGACTTTTGTAAACACCTTCAAGCTGTA	4860
Sequenced	GCTGGAGAATGTGGAGGCCTTTGAGGGCCTGTCTGACTTTTGTAAACACCTTCAAGCTGTA	4583
	*****	
Reference	CCGGGGCAAGACGCAGGAGGAGACAGAAGATCCATCTGTGATTGGTGAATTTAAGGCCT	4920
Sequenced	CCGGGGCAAGACGCAGGAGGAGACAGAAGATCCATCTGTGATTGGTGAATTTAAGGCCT	4643
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Reference	CTTCAAAATTTATCCCTCCAGAAGACCCAGCCATCCCATGCCCCCAAGACAGTTCCA	4980
Sequenced	CTTCAAAATTTATCCCTCCAGAAGACCCAGCCATCCCATGCCCCCAAGACAGTTCCA	4703
	*****	
Reference	CCAGCTGGCCGCCAGGGACCCAGGAGTGCTTGGTCCGTATCTACATTGTCGAGCATT	5040
Sequenced	CCAGCTGGCCGCCAGGGACCCAGGAGTGCTTGGTCCGTATCTACATTGTCGAGCATT	4763
	*****	
Reference	TGGCTGCAGCCCAAGGACCCCAATGGAAGTGTGATCCTTACATCAAGATCTCCATAGG	5100
Sequenced	TGGCTGCAGCCCAAGGACCCCAATGGAAGTGTGATCCTTACATCAAGATCTCCATAGG	4823
	*****	
Reference	GAAGAAATCAGTGAGTGACCAGGATAACTACATCCCTGCACGCTGGAGCCCGTATTTGG	5160
Sequenced	GAAGAAATCAGTGAGTGACCAGGATAACTACATCCCTGCACGCTGGAGCCCGTATTTGG	4883
	*****	
Reference	AAAGATGTTTCGAGCTGACCTGCACTCTGCCTCTGGAGAAGGACCTAAAGATCACTCTTA	5220
Sequenced	AAAGATGTTTCGAGCTGACCTGCACTCTGCCTCTGGAGAAGGACCTAAAGATCACTCTTA	4943
	*****	
Reference	TGACTATGACCTCCTCTCCAAGGACGAAAAGATCGGTGAGACGGTCTGACCTGGAGAA	5280
Sequenced	TGACTATGACCTCCTCTCCAAGGACGAAAAGATCGGTGAGACGGTCTGACCTGGAGAA	5003
	*****	
Reference	CAGGCTGTCTCCAAGTTTGGGGCTCGCTGTGGACTCCACAGACCTACTGTGTCTCTGG	5340
Sequenced	CAGGCTGTCTCCAAGTTTGGGGCTCGCTGTGGACTCCACAGACCTACTGTGTCTCTGG	5063
	*****	
Reference	ACCGAACCAAGTGGCGGGACCAGCTCCGCCCTCCAGCTCCTCCACCTCTTCTGCCAGCA	5400
Sequenced	ACCGAACCAAGTGGCGGGACCAGCTCCGCCCTCCAGCTCCTCCACCTCTTCTGCCAGCA	5123
	*****	
Reference	GCATAGAGTCAAGGCACCTGTGTACCGGACAGACCGTGAATGTTTCAGGATAAAGAATA	5460
Sequenced	GCATAGAGTCAAGGCACCTGTGTACCGGACAGACCGTGAATGTTTCAGGATAAAGAATA	5183
	*****	
Reference	TTCCATTGAAGAGATAGAGGCTGGCAGGATCCCAAACCCACACCTGGGCCAGTGGAGGA	5520
Sequenced	TTCCATTGAAGAGATAGAGGCTGGCAGGATCCCAAACCCACACCTGGGCCAGTGGAGGA	5243
	*****	
Reference	GCGTCTGGCTCTGCATGTGCTTACGACGAGGGCCTGGTCCCGGAGCACGTGGAGTCACG	5580
Sequenced	GCGTCTGGCTCTGCATGTGCTTACGACGAGGGCCTGGTCCCGGAGCACGTGGAGTCACG	5303
	*****	
Reference	GCCCCCTACAGCCCTGCAGCCAGACATCGAGCAGGGGAAGCTGCAGATGTGGGTCTGA	5640
Sequenced	GCCCCCTACAGCCCTGCAGCCAGACATCGAGCAGGGGAAGCTGCAGATGTGGGTCTGA	5363
	*****	
Reference	CCTATTTCCGAAGGCCTGGGGCGGCTGGACCTCCCTTCAACATCACCCACGGAGAGC	5700
Sequenced	CCTATTTCCGAAGGCCTGGGGCGGCTGGACCTCCCTTCAACATCACCCACGGAGAGC	5423
	*****	
Reference	CAGAAGTTTTCTCGCTGTATTATCTGGAATACCAGAGATGTGATCCTGGATGACCT	5760
Sequenced	CAGAAGTTTTCTCGCTGTATTATCTGGAATACCAGAGATGTGATCCTGGATGACCT	5483
	*****	
Reference	GAGCCTCACGGGGAGAAGATGAGCGACATTTATGTGAAAGTTGGATGATTGGCTTTGA	5820
Sequenced	GAGCCTCACGGGGAGAAGATGAGCGACATTTATGTGAAAGTTGGATGATTGGCTTTGA	5543
	*****	
Reference	AGAACACAAGCAAAGACAGACGTGCATTATCGTTCCCTGGGAGGTGAAGGCAACTCAA	5880
Sequenced	AGAACACAAGCAAAGACAGACGTGCATTATCGTTCCCTGGGAGGTGAAGGCAACTCAA	5603
	*****	
Reference	CTGGAGGTTTCATTTCCCTTCGACTACCTGCCAGCTGAGCAAGTCTGTACCATTGCCAA	5940
Sequenced	CTGGAGGTTTCATTTCCCTTCGACTACCTGCCAGCTGAGCAAGTCTGTACCATTGCCAA	5663
	*****	
Reference	GAAGGATGCCTTCTGGAGGCTGGACAAGACTGAGAGCAAAATCCCAGCACGAGTGGTGT	6000
Sequenced	GAAGGATGCCTTCTGGAGGCTGGACAAGACTGAGAGCAAAATCCCAGCACGAGTGGTGT	5723
	*****	
Reference	CCAGATCTGGGCAATGACAAGTTCTCCTTTGATGATTTCTGGGCTCCCTGCAGCTCGA	6060

Sequenced CCAGATCTGGACAATGACAAGTTCTCCTTTGATGATTTTCTGGGCTCCCTGCAGCTCGA 5783  
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Reference TCTCAACCGCATGCCAAGCCAGCCAAGACAGCCAAGAAGTGCTCCTTGGACCAGCTGGA 6120  
Sequenced TCTCAACCGCATGCCAAGCCAGCCAAGACAGCCAAGAAGTGCTCCTTGGACCAGCTGGA 5843  
\*\*\*\*\*

Reference TGATGCTTTCACCCAGAATGGTTTGTGTCCCTTTTGTGAGCAGAAAACAGTGAAGGGCTG 6180  
Sequenced TGATGCTTTCACCCAGAATGGTTTGTGTCCCTTTTGTGAGCAGAAAACAGTGAAGGGCTG 5903  
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Reference GTGGCCCTGTGTAGCAGAAGAGGGTGAAGAAAAATACTGGCGGGCAAGCTGGAAATGAC 6240  
Sequenced GTGGCCCTGTGTAGCAGAAGAGGGTGAAGAAAAATACTGGCGGGCAAGCTGGAAATGAC 5963  
\*\*\*\*\*

Reference CTTGGAGATTGTAGCAGAGAGTGAGCATGAGGAGCGGCCTGTGGCCAGGGCCGGGATGA 6300  
Sequenced CTTGGAGATTGTAGCAGAGAGTGAGCATGAGGAGCGGCCTGTGGCCAGGGCCGGGATGA 6023  
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Reference GCCAACATGAACCCTAAGCTTGAGGACCCAAGGCGCCCGACACCTCCTTCTGTGGTT 6360  
Sequenced GCCAACATGAACCCTAAGCTTGAGGACCCAAGGCGCCCGACACCTCCTTCTGTGGTT 6083  
\*\*\*\*\*

Reference TACCTCCCATAACAAGACCATGAAGTTCATCCTGTGGCGGCGTTTCCGGTGGGCCATCAT 6420  
Sequenced TACCTCCCATAACAAGACCATGAAGTTCATCCTGTGGCGGCGTTTCCGGTGGGCCATCAT 6143  
\*\*\*\*\*

Reference CCTTTCATCATCCTTTCATCCTGTGCTGTTCCTGGCCATCTTCATCTACGCCTTCCC 6480  
Sequenced CCTTTCATCATCCTTTCATCCTGTGCTGTTCCTGGCCATCTTCATCTACGCCTTCCC 6203  
\*\*\*\*\*

Reference GAACTATGCTGCCATGAAGCTGGTGAAGCCCTTCAGCTGAGGACTCTCCTGCCCTGTAGA 6540  
Sequenced GAACTATGCTGCCATGAAGCTGGTGAAGCCCTTCAGCTGA----- 6243  
\*\*\*\*\*

Reference AGGGCCGTTGGGTTCCCTCCAGCATGGGACTGGCCTGCCTCCTCCGCCAGCTCGGCGA 6600  
Sequenced -----

Reference GCTCCTCCAGACCTCCTAGGCCTGATTGTCTGCCAGGGTGGGCAGACAGACAGATGGAC 6660  
Sequenced -----

Reference CGGCCCACTCCAGAGTTGCTAACATGGAGCTCTGAGATCACCCACTTCCATCATT 6720  
Sequenced -----

Reference CCTTCTCCCCAACCCAACGCTTTTTTGGATCAGCTCAGACATATTTAGTATAAAACAG 6780  
Sequenced -----

Reference TTGGAACCACACAGCA 6796  
Sequenced -----