

Supplemental File1

Sequenced rat DNA fragment (in FASTA format) obtained by PCR employing Primers #1 and #2. The hairpin mir-155 is reported in bold outlined.

>Rat_DNA_Contig1

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TGGGTTCATCCATTGAGTTTAACTTTCAAAAATCATAAAGTACCATCCTAAATATCTGAGATTTCTTGAATTGCCTAGTGACCTGTGGGATGTACGTCAGAATATTACCCAGAACTGAAGTTGTGTCCTTTGAACTTCAGCATTGTAGAACTATGAACCGTGGCTGTGTTAAAAATGATACATGTATTCAAATATTTCCACAGAATTTAAAGTTTGATTTTATAATTAGTTTTTAAATTGCAAACCTTACAAAAATTTTCCAA AATTTACTTAGAAGCATTTCAGAGCTCTTTTCTTTCAAAGCTGAAGTCTACCTTGCCTTCAGATTCATAATCGTTCACTCTACTTTATAACTAACTGTGTGCGTACACACAACTATTTCTTTTTCTCTTTGCAGGTGCTGCAAACCAGGAAGGGGAAGTGTGTGGTTTTAAGTTGCATATCCCTTATCCTCTGGCTGCTGGAGGCTTGCTGAAGGCTGTATGCTGTTAATGCTAATTGTGATAGGGGTTTTGGCCTCTGACTGAC TCCTACCTGTTAGCATTAAACAGGATACAGTGCCTGTTACTAGCATTACGTGGAACAAATGGCCGC CGCCGTGGGAGGATGACAAGACCATGAGTCACTCTGCTGGATGAACGTAGAAGTCAGGCTCTATCACTTCTTAATGTGCTCATCGTAACC CGGTTACTAGGATTTTCCACTGTGAGTGTCAATAAAATGTCATTTAAAAGA CTTATCAGCAGTATCCCGAACAAACATC GCAACTTCAGGCCACGTTTATTTTTATC TTGAATGGAAAATGAACTTGTATCATTTTTATTCCAAAATTATGTTCATAACCATTTTCAATGAT TCAACCAGAATGCAAAATGAATAAACTACAAAAGGACATTTCTGATATTTCTGTAGTTAAGATCAA GGACAGCCGTTCCCGACTGACATCTAGGATTTCTGGAGCACCTCTTGGAAGACTTGGAATTGGCAT TTTT
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Sequenced rat DNA fragment (in FASTA format) obtained by PCR employing Primers #3 and #4. The hairpin mir-155 is reported in bold outlined.

>Rat_DNA_Contig2

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AAAAAAAAAAAAATCATAAAATGCTATTCTAAATATCTGGGTTGTTTTCTTCAATTGCCAGTGACC TGTAGGATGCAAATCAGAAATGCAGCACAGAACTGAAGCTATGTCCTTTGAGCTTCAGCTCTGTAGA ACTGTGAACAGGCTGTGTTAAAGAAGATACGTCCACGCAAGTTATTTCCACCTCAAGAACAGAATT TAAAGTTTAAATTTTAAAATCAGTTTTTTTTAATTGCTAAGGTTACAAAAATTTTCCAAAATTACTT ATAAGCATTTTCGGGAGTCCTTTTCTTTCAAGGCTGAAGGCTACCTTGTCTTCGGAGTTACAGCAGT CACTCCACTTTCTAACTGTAATGTACACAACTATTTCTTTTTGTCTTTGCAGGTGGCACAACCA GAAAGGGGAAGTGTGTGGTTTTAAGTTGCTTATCCCTTATCCTGTCTGGCTGCTGGAGGCTTGCTG AAGGCTGTATGCTGTTAATGCTAATTGTGATAGGGGTTTTGGCCTCTGACTGACTCCTACCTGTTA GCATTAACAGGATACAGTGCCTGTTACTAGCATTACGTGGAACAAATGGCCGCCGCTGGGAGG ATGACAAGACCATGAGTCACTCTGCTGGATGAACGTAGAAGTCAGGCTCTATCACTTCTTAATGTG CTCATCGTAACC CGGTTACTAGGATTTTCCACTGTGAGTGTCAATAAAATGTCATTTAAAAGA CT TATCAGCAGTATCCCGAACAAACATC GCAACTTCAGGCCACGTTTATTTTTATCTTGAATGGAAAA TGAACTTGTATCATTTTTATTCCAAAATTATGTTCATAACCATTTTCAATGATTCAACCAGAATG CAAAATGAATAAACTACAAAAGGACATTTCTGATATTTCTGTAGTTAAGATCAAGGACA
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Supplemental File1

Sequenced rat cDNA fragment (in FASTA format) obtained by PCR employing Primers #6 and #9. The hairpin mir-155 is reported in bold outlined.

>Rat_cDNA_Contig1

GCTTGCTGAAGGCTGTATG**CTGTTAATGCTAATTGTGATAGGGGTTTTGGCCTCTGACTGA**
CTCCTACCTGTTAGCATTAAACAGGATACAGTGCCTGTTACTAGCATTCCACGTGGAACAAAT
GGCCGCCGCCGTGGGAGGATGACAAGACCATGAGTCACTCTGCTGGATGAACGTAGAAGTC
AGGCTCTATCACTTCTTAATGTGCTCATCGTAACC**C**GGTACTAGGATTTTCCACTGTGAG
TGTCACAATAAATGTCATTTAAAAGA**C**TTATCAGCAGTATCCCGAACAAACATC**G**CAACTTC
AGGCCACGTTTATTTTTATCTTGAATGGAAAATGAACTTGTATCATTTTTATTCCAAAA
TTATGTTCATAACCATTTTCAATGATTCAACCAGAATGCAAATGAATAAACTACAAAAGG
ACATTTCTGATATTTCTGTAGTTAAGATCAAGGACAGCCGTTCCCGACTGACATCTAGGAT
TTCTGGAGCACCTCTTGGGAAGACTGGGAATTGGCATTTTTCTCCACGTTACTTTATTAGT
CAGCTTTGATATAAAATTCGTAACTCTTAATTTG**G**TTTTTAGTTTAAGGAAAAGCTGAGTC
AACACTGAGTGATTTTTTTTTTTTAGTTTATTAGCCAGCTGGTGGTAGTTTACACCTTTAAT
CCCAGCACTTGAGAGGCAGAGGCGGGCGGATCACTGAGTTGAAGGACAGCCTGGTCTACAG
AGTGAATCCAGGACAGCCAGGGCTACACAGAGAATAGGTAAAGTGTTAAAAACTGACATG
ACAGATGGTCCCTGAGAGTTAGCTACATTTTCTCACACAGTACAAATATTTAACTTAGAA
ATAGTCACATTTGAAATGAAACCCCAAATGTAGGTTCAAGTTTAATACTTTAGCTGCACAG
TAAAGCTGTGTACTCAGGAGACCCACCACCTTTCCTAAACCT

Supplemental File2

Human *Bic* gene (reference assembly) aligned against the alternate assembly.

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Human-BIC_GRCh37.p5      GCCGAGCCCGGGCCAGCGCCGCTGCAGCCTCGGGAAGGGAGCGGATAGCGGAGCCCCG 60
Human-BIC_HuRef          GCCGAGCCCGGGCCAGCGCCGCTGCAGCCTCGGGAAGGGAGCGGATAGCGGAGCCCCG 60
*****

Human-BIC_GRCh37.p5      AGCCGCCCGCAGAGCAAGCGCGGGGAACCAAGGAGACGCTCCTGGCACTGCAGGTACGCC 120
Human-BIC_HuRef          AGCCGCCCGCAGAGCAAGCGCGGGGAACCAAGGAGACGCTCCTGGCACTGCAGGTACGCC 120
*****

Human-BIC_GRCh37.p5      GACTTCAGTCTCGCGCTCCCGCCCGCCTTTCTCTCTTGAACGTGGCAGGGACGCCGGGG 180
Human-BIC_HuRef          GACTTCAGTCTCGCGCTCCCGCCCGCCTTTCTCTCTTGAACGTGGCAGGGACGCCGGGG 180
*****

Human-BIC_GRCh37.p5      GACTTCGGTGCAGGGGTCACCGCCGGGTAACTGGCGAGGCAAGGCGGGGGCAGCGCGCA 240
Human-BIC_HuRef          GACTTCGGTGCAGGGGTCACCGCCGGGTAACTGGCGAGGCAAGGCGGGGGCAGCGCGCA 240
*****

Human-BIC_GRCh37.p5      CGTGGCCGTGGAGCCCGCCTGGTCCCGCGCGCGCCTGCGGGTGCCCCCTGGGGACTCAG 300
Human-BIC_HuRef          CGTGGCCGTGGAGCCCGCCTGGTCCCGCGCGCGCCTGCGGGTGCCCCCTGGGGACTCAG 300
*****

Human-BIC_GRCh37.p5      TGGTGTGCGCTCGCCCGGGACCAGAGATTGCGCTGGATGGATTCCCGCGGGCAGAGGCAG 360
Human-BIC_HuRef          TGGTGTGCGCTCGCCCGGGACCAGAGATTGCGCTGGATGGATTCCCGCGGGCAGAGGCAG 360
*****

Human-BIC_GRCh37.p5      GGGGAAGGAGGGGTGTTTCGAAACCTAATACTTGAGCTTCTTTGCAAAGTTTCCTTGGATG 420
Human-BIC_HuRef          GGGGAAGGAGGGGTGTTTCGAAACCTAATACTTGAGCTTCTTTGCAAAGTTTCCTTGGATG 420
*****

Human-BIC_GRCh37.p5      GTTGGGGACGTACCTGTATAATGGCCCTGGACCAGCTTCCCTGTTGGAGTGGCCAGAGAA 480
Human-BIC_HuRef          GTTGGGGACGTACCTGTATAATGGCCCTGGACCAGCTTCCCTGTTGGAGTGGCCAGAGAA 480
*****

Human-BIC_GRCh37.p5      GTGTGTAAAAACACACTAGAGGGGCAGGGTGGAAAAAGAGACTGCCTTCAAAACTTGTATC 540
Human-BIC_HuRef          GTGTGTAAAAACACACTAGAGGGGCAGGGTGGAAAAAGAGACTGCCTTCAAAACTTGTATC 540
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Supplemental File2

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Human-BIC_GRCh37.p5      TTTTCGATTTTCATTTTGA AAAATAACTACAAATCTATTTTAATTTTACAAAGTTAGACTC 600
Human-BIC_HuRef          TTTTCGATTTTCATTTTGA AAAATAACTACAAATCTATTTTAATTTTACAAAGTTAGACTC 600
*****

Human-BIC_GRCh37.p5      ATAGCATTTTAGATATCAATGTCTTCATTTAACAGAAGTGAAGATGGAGCAAACGCTCAA 660
Human-BIC_HuRef          ATAGCATTTTAGATATCAATGTCTTCATTTAACAGAAGTGAAGATGGAGCAAACGCTCAA 660
*****

Human-BIC_GRCh37.p5      TCAGCGTCTGTATTTATTTCGCTCCTGTTGTGCCAGGGTGCGTTTTTGGCCGAGCGGTTGCC 720
Human-BIC_HuRef          TCAGCGTCTGTATTTATTTCGCTCCTGTTGTGCCAGGGTGCGTTTTTGGCCGAGCGGTTGCC 720
*****

Human-BIC_GRCh37.p5      TTTCTTTACTCACAAAACCCCTTGATGTCTGTCTCCACGTTTTTACGAGGGAGAGCCGG 780
Human-BIC_HuRef          TTTCTTTACTCACAAAACCCCTTGATGTCTGTCTCCACGTTTTTACGAGGGAGAGCCGG 780
*****

Human-BIC_GRCh37.p5      ATCTTTTGAAGTTTGTATCATCTAAAGCAGGTATATTGGGATGACTATGGATAGAATTTA 840
Human-BIC_HuRef          ATCTTTTGAAGTTTGTATCATCTAAAGCAGGTATATTGGGATGACTATGGATAGAATTTA 840
*****

Human-BIC_GRCh37.p5      ACCTGAAAACACTGAAGTTGACAGCTGACAAAGATATAAGAATCCAAAGTATGTTAAAAA 900
Human-BIC_HuRef          ACCTGAAAACACTGAAGTTGACAGCTGACAAAGATATAAGAATCCAAAGTATGTTAAAAA 900
*****

Human-BIC_GRCh37.p5      TTAAGGAGCTGAGGCCACAGAAGTGAAGTTACTTTTCCAGCATCACACAGCAGATCTAG 960
Human-BIC_HuRef          TTAAGGAGCTGAGGCCACAGAAGTGAAGTTACTTTTCCAGCATCACACAGCAGATCTAG 960
*****

Human-BIC_GRCh37.p5      GACCCTGTGTGATTTGAAAAGGCCAAGGTATCTAATGATGCTCATAATTTAGTTTACATT 1020
Human-BIC_HuRef          GACCCTGTGTGATTTGAAAAGGCCAAGGTATCTAATGATGCTCATAATTTAGTTTACATT 1020
*****

Human-BIC_GRCh37.p5      TTGTGTCAAATAGATGAGGTCAAGTGGACATTATGTGTATATTCCAAAGCCAAAATTACT 1080
Human-BIC_HuRef          TTGTGTCAAATAGATGAGGTCAAGTGGACATTATGTGTATATTCCAAAGCCAAAATTACT 1080
*****

Human-BIC_GRCh37.p5      GCTTGTAATATCCATTTCATCTCTCCGAAGACGTAGTGCCTCTTTTATATGGCTTTAACCT 1140
Human-BIC_HuRef          GCTTGTAATATCCATTTCATCTCTCCGAAGACGTAGTGCCTCTTTTATATGGCTTTAACCT 1140
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Supplemental File2

Human-BIC_GRCh37.p5	AATGTATAATCGAAGTGAATTAGGGCAGCCAGACTTTTAAATCACAGGACTGATCTTTTAA	1200
Human-BIC_HuRef	AATGTATAATCGAAGTGAATTAGGGCAGCCAGACTTTTAAATCACAGGACTGATCTTTTAA	1200

Human-BIC_GRCh37.p5	AAACGGGTATATGTAAAGTTAATTGCTTATCTATGTGAACAGTAATATACACTATAAAAA	1260
Human-BIC_HuRef	AAACGGGTATATGTAAAGTTAATTGCTTATCTATGTGAACAGTAATATACACTATAAAAA	1260

Human-BIC_GRCh37.p5	GTTTTCAAGGCAACTTCCTGCCTGTGGTTTAAATTTGATAGTCACAATGATAGGAAATTGG	1320
Human-BIC_HuRef	GTTTTCAAGGCAACTTCCTGCCTGTGGTTTAAATTTGATAGTCACAATGATAGGAAATTGG	1320

Human-BIC_GRCh37.p5	CAGGGTTAGGTGGTGGTATCTACATTTTGCCCATGAGGACTTGTGGCTCAGAGAATTTGA	1380
Human-BIC_HuRef	CAGGGTTAGGTGGTGGTATCTACATTTTGCCCATGAGGACTTGTGGCTCAGAGAATTTGA	1380

Human-BIC_GRCh37.p5	GTTTTTCTAGTAAGGTCAGTCCCTAGTGCACAGCCTGCTTTTAGGTACGGATGTG	1440
Human-BIC_HuRef	GTTTTTCTAGTAAGGTCAGTCCCTAGTGCACAGCCTGCTTTTAGGTACGGATGTG	1440

Human-BIC_GRCh37.p5	GGATGGGGGTGTCGGCAGACCACAGGGTTTTGACTCTCAGTTTGGGCTCATTTCCATGAC	1500
Human-BIC_HuRef	GGATGGGGGTGTCGGCAGACCACAGGGTTTTGACTCTCAGTTTGGGCTCATTTCCATGAC	1500

Human-BIC_GRCh37.p5	TCCTTGCTGCCTCCCTGATTTCTGTCAAATGACCAAAGCACATTTAGTAATTACTTCTGC	1560
Human-BIC_HuRef	TCCTTGCTGCCTCCCTGATTTCTGTCAAATGACCAAAGCACATTTAGTAATTACTTCTGC	1560

Human-BIC_GRCh37.p5	TGCAAGGACTACTCCTTATTAGGCTGTGATAAGTAAGTTTCTCACATAGTGGGTCAGCT	1620
Human-BIC_HuRef	TGCAAGGACTACTCCTTATTAGGCTGTGATAAGTAAGTTTCTCACATAGTGGGTCAGCT	1620

Human-BIC_GRCh37.p5	CACTCTGGCCACAGGACCCAGCTTCCTAACCACACACATTAAGAAAGAGAAAAATTAGCA	1680
Human-BIC_HuRef	CACTCTGGCCACAGGACCCAGCTTCCTAACCACACACATTAAGAAAGAGAAAAATTAGCA	1680

Human-BIC_GRCh37.p5	CTGTCTGAGACCTACAACCCTTCAAGGGGAGAACAGTGGTGTTCACAAAATGTCTACTT	1740
Human-BIC_HuRef	CTGTCTGAGACCTACAACCCTTCAAGGGGAGAACAGTGGTGTTCACAAAATGTCTACTT	1740

Supplemental File2

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Human-BIC_GRCh37.p5      TTGTTTTAACCTAGTCATGTGTA AAAAAGTGTAATTCAC TGGTCTTTACCAAAAAAAAAAAAA 1800
Human-BIC_HuRef          TTGTTTTAACCTAGTCATGTGTA AAAAAGTGTAATTCAC TGGTCTTTACCAAAAAAAAAAAAA 1800
*****

Human-BIC_GRCh37.p5      AAAAAAAAAACAACAACAAAAAAA AACAGGCATCATAGTCTGCCTGTGCTGGACGCTATGC 1860
Human-BIC_HuRef          AAAAAAAAAACAACAACAAAAAAA AACAGGCATCATAGTCTGCCTGTGCTGGACGCTATGC 1860
*****

Human-BIC_GRCh37.p5      TAGACACTGGAGAGACAAAAGGTGAGCAGGATAGGCACAACCC TACCCTTACAAACCCAGA 1920
Human-BIC_HuRef          TAGACACTGGAGAGACAAAAGGTGAGCAGGATAGGCACAACCC TACCCTTACAAACCCAGA 1920
*****

Human-BIC_GRCh37.p5      AAGTTAGAGGAAAGGCCATCAGGACATTGCTGTGCAATTTGATATCATTTCAATTTTGGT 1980
Human-BIC_HuRef          AAGTTAGAGGAAAGG-CCATCAGGACATTGCTGTGCAATTTGATATCATTTCAATTTTGGT 1979
***** *

Human-BIC_GRCh37.p5      AACATAGATATTTGAACTAATTAGAAATGTGCTACAAATTTTGCCATTCTTTACTTTCCAT 2040
Human-BIC_HuRef          AACATAGATATTTGAACTAATTAGAAATGTGCTACAAATTTTGCCATTCTTTACTTTCCAT 2039
*****

Human-BIC_GRCh37.p5      ATGCCAACATGGAAAATTTGTAACCCCTCATCTTTAAATACCTCATCTTACCAGTCCTCTA 2100
Human-BIC_HuRef          ATGCCAACATGGAAAATTTGTAACCCCTCATCTTTAAATACCTCATCTTACCAGTCCTCTA 2099
*****

Human-BIC_GRCh37.p5      TAAATCAAAAAATCTACCCCAAAAAGCCCTAGGTTTTAACTTTTGAAAAGTTTTTTTTTTA 2160
Human-BIC_HuRef          TAAATCAAAAAATCTACCCCAAAAAGCCCTAGGTTTTAACTTTTGAAAAGTTTTTTTTTTA 2159
*****

Human-BIC_GRCh37.p5      TCAGCTTTTCAGGTCATGACTAAGATCTGCCATTCAATTTAAAGGAATTCTTTCATTTTA 2220
Human-BIC_HuRef          TCAGCTTTTCAGGTCATGACTAAGATCTGCCATTCAATTTAAAGGAATTCTTTCATTTTA 2219
*****

Human-BIC_GRCh37.p5      GAGTAATAGTTACTAAAATCCTTTATTCTACCTCCTTGAGAATCTAATGGAAATTTTAT 2280
Human-BIC_HuRef          GAGTAATAGTTACTAAAATCCTTTATTCTACCTCCTTGAGAATCTAATGGAAATTTTAT 2279
*****

Human-BIC_GRCh37.p5      ATGCTCTTCCCAGAAAATTTTGTTAATGTGTATCCTCACACACCAATTTGCATTTCGATG 2340
Human-BIC_HuRef          ATGCTCTTCCCAGAAAATTTTGTTAATGTGTATCCTCACACACCAATTTGCATTTCGATG 2339
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Supplemental File2

Human-BIC_GRCh37.p5	TTAGCAGGCTAGAGACTTCCTTGAATCTCAGCCATGACCCTCTTCGGGGGTCCACTTTCA	2400
Human-BIC_HuRef	TTAGCAGGCTAGAGACTTCCTTGAATCTCAGCCATGACCCTCTTCGGGGGTCCACTTTCA	2399

Human-BIC_GRCh37.p5	TAATCAGTATTCTAAACCTAGTAGGCATAAATAGCTTGAATAGAGGAAAGTGGTATGTAG	2460
Human-BIC_HuRef	TAATCAGTATTCTAAACCTAGTAGGCATAAATAGCTTGAATAGAGGAAAGTGGTATGTAG	2459

Human-BIC_GRCh37.p5	ACTCTTGCCCTTCACTTGGACTGGGCACCTCTATCACTTGGACTGGGCACCAGCTAGTGC	2520
Human-BIC_HuRef	ACTCTTGCCCTTCACTTGGACTGGGCACCTCTATCACTTGGACTGGGCACCAGCTAGTGC	2519

Human-BIC_GRCh37.p5	CCTTAACTAGCTGGTGTCTCCATTTTTGATAGTCATTGGCTATTGCTTAGCTGAAGCTAT	2580
Human-BIC_HuRef	CCTTAACTAGCTGGTGTCTCCATTTTTGATAGTCATTGGCTATTGCTTAGCTGAAGCTAT	2579

Human-BIC_GRCh37.p5	TGATTTTAAACAGCCTTATTGTTTTGATATCAGGCTGCCACTCTGCAGAAGTCTAATACTG	2640
Human-BIC_HuRef	TGATTTTAAACAGCCTTATTGTTTTGATATCAGGCTGCCACTCTGCAGAAGTCTAATACTG	2639

Human-BIC_GRCh37.p5	GGGAAGGAGCACCGCCTGAGAACCATGGTTTTGTTTTCTAGGACCAACTCTGCAGATTTCT	2700
Human-BIC_HuRef	GGGAAGGAGCACCGCCTGAGAACCATGGTTTTGTTTTCTAGGACCAACTCTGCAGATTTCT	2699

Human-BIC_GRCh37.p5	GTGCCTCATTTTGCTCATCTCTAAGATGGGTGGTTGATGGGTGGCAGGGACTGAACCATT	2760
Human-BIC_HuRef	GTGCCTCATTTTGCTCATCTCTAAGATGGGTGGTTGATGGGTGGCAGGGACTGAACCATT	2759

Human-BIC_GRCh37.p5	TCTAAAATCCCTTACACTGATGAAATTTCTGTGATTCCAGTGTAACCTACCAAGCTCACTTT	2820
Human-BIC_HuRef	TCTAAAATCCCTTACACTGATGAAATTTCTGTGATTCCAGTGTAACCTACCAAGCTCACTTT	2819

Human-BIC_GRCh37.p5	CATATACCTCCTGAGACACAGCTGGTCTTAGTGAATTTATATCCTCTATGTCCAAAGTAA	2880
Human-BIC_HuRef	CATATACCTCCTGAGACACAGCTGGTCTTAGTGAATTTATATCCTCTATGTCCAAAGTAA	2879

Human-BIC_GRCh37.p5	GTCAAAGTAAGTACCCTATAAATTCCTATAGAAATGTATTTTTGTCTTTCACTGATCTTA	2940
Human-BIC_HuRef	GTCAAAGTAAGTACCCTATAAATTCCTATAGAAATGTATTTTTGTCTTTCACTGATCTTA	2939

Supplemental File2

Human-BIC_GRCh37.p5	CTGGACTCAAAACTGTTACATGTTTCCTTAAATTAGATAGAATAAAAAAATTGTGAAACA	3000
Human-BIC_HuRef	CTGGACTCAAAACTGTTACATGTTTCCTTAAATTAGATAGAATAAAAAAATTGTGAAACA	2999

Human-BIC_GRCh37.p5	CTACTTTTCAAGGAAAAATATTACAATTTTAAAAGCCTCTTTTTATCCCACCTCTCAGTA	3060
Human-BIC_HuRef	CTACTTTTCAAGGAAAAATATTACAATTTTAAAAGCCTCTTTTTATCCCACCTCTCAGTA	3059

Human-BIC_GRCh37.p5	GCTACAACCTTTCATATACGAGTTTTCACATATATATGAAAAAATTTTCTTATCTCAGACT	3120
Human-BIC_HuRef	GCTACAACCTTTCATATACGAGTTTTCACATATATATGAAAAAATTTTCTTATCTCAGACT	3119

Human-BIC_GRCh37.p5	CTTAAGGAAATGCAATGCTTTTAAATATGATCACTGCTGTGTAATTCTCATCTGCCCTGAA	3180
Human-BIC_HuRef	CTTAAGGAAATGCAATGCTTTTAAATATGATCACTGCTGTGTAATTCTCATCTGCCCTGAA	3179

Human-BIC_GRCh37.p5	ACACTTGTCTGTCCATCAATCAATGTATTTGGGTTTACAATATGCAGAGCCTCAAGCAA	3240
Human-BIC_HuRef	ACACTTGTCTGTCCATCAATCAATGTATTTGGGTTTACAATATGCAGAGCCTCAAGCAA	3239

Human-BIC_GRCh37.p5	AACCAGTGCAAAGCACATCTATCCTCAAATAGGCACATCATATGTCTGAGCAGTTCAGC	3300
Human-BIC_HuRef	AACCAGTGCAAAGCACATCTATCCTCAAATAGGCACATCATATGTCTGAGCAGTTCAGC	3299

Human-BIC_GRCh37.p5	ATCCTCACTCACAAGTCCAAGGCTCTCAGCAATGTGGAAGAAGATGTGATTCTTAAATTT	3360
Human-BIC_HuRef	ATCCTCACTCACAAGTCCAAGGCTCTCAGCAATGTGGAAGAAGATGTGATTCTTAAATTT	3359

Human-BIC_GRCh37.p5	ACCACCCTTACACACAGTGACACACTCACCAGAAAGTGAGGCTTAAACATAGCTTAAAGTGG	3420
Human-BIC_HuRef	ACCACCCTTACACACAGTGACACACTCACCAGAAAGTGAGGCTTAAACATAGCTTAAAGTGG	3419

Human-BIC_GRCh37.p5	CTGTAGTTTAAAACAGATTGTGAATATCTGTGCTAATTCTGAGAAACAATTAGCAGACAT	3480
Human-BIC_HuRef	CTGTAGTTTAAAACAGATTGTGAATATCTGTGCTAATTCTGAGAAACAATTAGCAGACAT	3479

Human-BIC_GRCh37.p5	ATTAACCAATTAGCACAGATCACTAATATCTGTGCTAATTGTTAGGACAGATTAGCACAG	3540
Human-BIC_HuRef	ATTAACCAATTAGCACAGATCACTAATATCTGTGCTAATTGTTAGGACAGATTAGCACAG	3539

Supplemental File2

Human-BIC_GRCh37.p5	ATATTGCTACCTTGTGTGGGTAGACAGGGTTAAGGCACTGGCAGAAGGAAAGATTAGTGA	3600
Human-BIC_HuRef	ATATTGCTACCTTGTGTGGGTAGACAGGGTTAAGGCACTGGCAGAAGGAAAGATTAGTGA	3599

Human-BIC_GRCh37.p5	GGAATATCAAATAGCTGATTTAATGAAATTGTGAGGCCGATGTTTGGATAAGGTGAAACA	3660
Human-BIC_HuRef	GGAATATCAAATAGCTGATTTAATGAAATTGTGAGGCCGATGTTTGGATAAGGTGAAACA	3659

Human-BIC_GRCh37.p5	GTGCCCTACAATGACATTTATGCCAGTTCTCCATAAAACAAGAGTGTTCTACACAAATTAT	3720
Human-BIC_HuRef	GTGCCCTACAATGACATTTATGCCAGTTCTCCATAAAACAAGAGTGTTCTACACAAATTAT	3719

Human-BIC_GRCh37.p5	AAGTTCCTGGCTGTCTTAACAAAATGCTATGGTCCTTTATATGCTCACACAAATAATGGT	3780
Human-BIC_HuRef	AAGTTCCTGGCTGTCTTAACAAAATGCTATGGTCCTTTATATGCTCACACAAATAATGGT	3779

Human-BIC_GRCh37.p5	TCCAAGCATGGGAAACAGGTGCCAGATTGCCAGGTAGGCATCCCAGCAGCATGCTCCTT	3840
Human-BIC_HuRef	TCCAAGCATGGGAAACAGGTGCCAGATTGCCAGGTAGGCATCCCAGCAGCATGCTCCTT	3839

Human-BIC_GRCh37.p5	AGCCACTGATTAACCTTGGCGAAGTTATTTACCTGCCTGTGCCTCAAGGCCCTGTGTT	3900
Human-BIC_HuRef	AGCCACTGATTAACCTTGGCGAAGTTATTTACCTGCCTGTGCCTCAAGGCCCTGTGTT	3899

Human-BIC_GRCh37.p5	TCAATGGGGAGGGTGTGAATACTCATTCCCTAAGGTTGTGAGGAGGAATAACTGAGTTAGT	3960
Human-BIC_HuRef	TCAATGGGGAGGGTGTGAATACTCATTCCCTAAGGTTGTGAGGAGGAATAACTGAGTTAGT	3959

Human-BIC_GRCh37.p5	ATACGTCAAACACTTAGGTGCTTGGCACAGAGGGAGCCTGTGTAAGTGTGTTGCTATTATT	4020
Human-BIC_HuRef	ATACGTCAAACACTTAGGTGCTTGGCACAGAGGGAGCCTGTGTAAGTGTGTTGCTATTATT	4019

Human-BIC_GRCh37.p5	TTGTTTCACTAGATGATCTTGTGTATTATAAGAAATCAATTTGGAAGGTGAGATACAAAT	4080
Human-BIC_HuRef	TTGTTTCACTAGATGATCTTGTGTATTATAAGAAATCAATTTGGAAGGTGAGATACAAAT	4079

Human-BIC_GRCh37.p5	GCAGTCTGAGAAAGTAAAGACGTTTTAAAGACATTTTACTGTGTCATGAATTTTCAGAGA	4140
Human-BIC_HuRef	GCAGTCTGAGAAAGTAAAGACGTTTTAAAGACATTTTACTGTGTCATGAATTTTCAGAGA	4139

Supplemental File2

Human-BIC_GRCh37.p5	CCACACTGACATGGTAAAAAGTTGTTTGGTTTTTTAGAAATTTTTGTTTCAGAATGCATATC	4200
Human-BIC_HuRef	CCACACTGACATGGTAAAAAGTTGTTTGGTTTTTTAGAAATTTTTGTTTCAGAATGCATATC	4199

Human-BIC_GRCh37.p5	CTTCTCCTTAACCAAAAAGAAAACTACTAAAATACTTCTGAAAATTATTTCCAAGAAAAC	4260
Human-BIC_HuRef	CTTCTCCTTAACCAAAAAGAAAACTACTAAAATACTTCTGAAAATTATTTCCAAGAAAAC	4259

Human-BIC_GRCh37.p5	ATTTTGGTGTACCTTTTAGCAGTTACTTTATGACTTAAAGATTAGGATGAACAAAATAAT	4320
Human-BIC_HuRef	ATTTTGGTGTACCTTTTAGCAGTTACTTTATGACTTAAAGATTAGGATGAACAAAATAAT	4319

Human-BIC_GRCh37.p5	TATTTTAACTTGGCTTTTACCTGCTTGTAGATAACCTCTAATTTATATAATGGTTCAATT	4380
Human-BIC_HuRef	TATTTTAACTTGGCTTTTACCTGCTTGTAGATAACCTCTAATTTATATAATGGTTCAATT	4379

Human-BIC_GRCh37.p5	ATACAGTGGTAAATGTATCTGGGCTTGTTCCTTTTAAAATAGCAAGTGAACATGTGATAG	4440
Human-BIC_HuRef	ATACAGTGGTAAATGTATCTGGGCTTGTTCCTTTTAAAATAGCAAGTGAACATGTGATAG	4439

Human-BIC_GRCh37.p5	ATGTAGGGTACTTACAAAGTACTCACCAAGCATTGATGACTGATGTCATTAGTATCATGG	4500
Human-BIC_HuRef	ATGTAGGGTACTTACAAAGTACTCACCAAGCATTGATGACTGATGTCATTAGTATCATGG	4499

Human-BIC_GRCh37.p5	CTAACATTCACTGAGCCCTGATTATGAGGCTGGCACCCAATAAATGTTTTGCATTGTCA	4560
Human-BIC_HuRef	CTAACATTCACTGAGCCCTGATTATGAGGCTGGCACCCAATAAATGTTTTGCATTGTCA	4559

Human-BIC_GRCh37.p5	CTTCATCTTCACAAAGACTTTTTGAATAGGTTATTCTTTATCTCCATTTTCAGAGAAGCA	4620
Human-BIC_HuRef	CTTCATCTTCACAAAGACTTTTTGAATAGGTTATTCTTTATCTCCATTTTCAGAGAAGCA	4619

Human-BIC_GRCh37.p5	ACTAAGCCCTAAAGAGGTTTATTAACCTTGCCAAATACCACACAGCTAGTAACACTGGTGG	4680
Human-BIC_HuRef	ACTAAGCCCTAAAGAGGTTTATTAACCTTGCCAAATACCACACAGCTAGTAACACTGGTGG	4679

Human-BIC_GRCh37.p5	GGTCTGGAATGGAACCCAGGCAAGCTGAAAACGCAGACAACAATGAACACTCCTACTTTTC	4740
Human-BIC_HuRef	GGTCTGGAATGGAACCCAGGCAAGCTGAAAACGCAGACAACAATGAACACTCCTACTTTTC	4739

Supplemental File2

Human-BIC_GRCh37.p5	AATTCGATTTGCTAATTGTTAATATTTGCCACACTGGCTTATCTCTCTGTATCCCTACCC	4800
Human-BIC_HuRef	AATTCGATTTGCTAATTGTTAATATTTGCCACACTGGCTTATCTCTCTGTATCCCTACCC	4799

Human-BIC_GRCh37.p5	ATCTCTCTCTCTCTCTGTCTATATCTATATGCAAACCTGGCATCTAACTTCTAAATGCTT	4860
Human-BIC_HuRef	ATCTCTCTCTCTCTCTGTCTATATCTATATGCAAACCTGGCATCTAACTTCTAAATGCTT	4859

Human-BIC_GRCh37.p5	GAGCACGGATCTCCTAAGAACAAGTACATGGTTCTATGCAATGAAAAGACATGATTATGG	4920
Human-BIC_HuRef	GAGCACGGATCTCCTAAGAACAAGTACATGGTTCTATGCAATGAAAAGACATGATTATGG	4919

Human-BIC_GRCh37.p5	CATCCAAGAGTGATTTTAAAAATCAAGGATGAACTTAATTTTTTACCCACAAGTCCAGAC	4980
Human-BIC_HuRef	CATCCAAGAGTGATTTTAAAAATCAAGGATGAACTTAATTTTTTACCCACAAGTCCAGAC	4979

Human-BIC_GRCh37.p5	GATGATTTCTACCAGTATTCTCCAGCTTTACTCTGTTTCTTATACTTGACAGACTGAGCT	5040
Human-BIC_HuRef	GATGATTTCTACCAGTATTCTCCAGCTTTACTCTGTTTCTTATACTTGACAGACTGAGCT	5039

Human-BIC_GRCh37.p5	CCAAGCCTGGAATCTTCTAAAAAGGGTCCACTGCCAATCTGGAATGCCAACAAATCTTAT	5100
Human-BIC_HuRef	CCAAGCCTGGAATCTTCTAAAAAGGGTCCACTGCCAATCTGGAATGCCAACAAATCTTAT	5099

Human-BIC_GRCh37.p5	TAATATATCTCCACATTTGTAAGCTTCTACTAAATTCTCCAAGAACCTGCATATCAGTTA	5160
Human-BIC_HuRef	TAATATATCTCCACATTTGTAAGCTTCTACTAAATTCTCCAAGAACCTGCATATCAGTTA	5159

Human-BIC_GRCh37.p5	AGTCCTGAAATGCTCCAGTGCCAAATAAAAGCCCCTGTGCAGATAGAAATGCTTTTGGT	5220
Human-BIC_HuRef	AGTCCTGAAATGCTCCAGTGCCAAATAAAAGCCCCTGTGCAGATAGAAATGCTTTTGGT	5219

Human-BIC_GRCh37.p5	GACTCTCAAACATTTATTCAAAGGTATTTAGTGAGTATCTGTCAGCTGTATATCCAGCAC	5280
Human-BIC_HuRef	GACTCTCAAACATTTATTCAAAGGTATTTAGTGAGTATCTGTCAGCTGTATATCCAGCAC	5279

Human-BIC_GRCh37.p5	TGAGGGAAGACTCAGTCTCTGCCATCACATACACCTCAGCACTAAGAAGAGACACATGAA	5340
Human-BIC_HuRef	TGAGGGAAGACTCAGTCTCTGCCATCACATACACCTCAGCACTAAGAAGAGACACATGAA	5339

Supplemental File2

Human-BIC_GRCh37.p5	ATAATTACCATCCAGTGTGATAAGTGCTCTGACAGAGGATGGAGTGAGGACTAGTCACCT	5400
Human-BIC_HuRef	ATAATTACCATCCAGTGTGATAAGTGCTCTGACAGAGGATGGAGTGAGGACTAGTCACCT	5399

Human-BIC_GRCh37.p5	TGGGGAAGACAGAGAAGCAGGGTCCCACCAGGAGATGAG---AAGCCAGCCTCCAGGAGT	5457
Human-BIC_HuRef	TGGGGAAGACAGAGAAGCAGGGTCCCACCAGGAGATGAGGAGAAGCCAGCCTCCAGGAGT	5459

Human-BIC_GRCh37.p5	GCGCTATCTGAGAGGGCAAGAGAAGGAAGGCAAAGAGGACGGGTCCATACTTGAACAAC	5517
Human-BIC_HuRef	GCGCTATCTGAGAGGGCAAGAGAAGGAAGGCAAAGAGGACGGGTCCATACTTGAACAAC	5519

Human-BIC_GRCh37.p5	TGAAGTAGGTGTATCTAGTGCCTAAGAGTGTGTATGGTGACATCTTGTGGAGCAGTGAAC	5577
Human-BIC_HuRef	TGAAGTAGGTGTATCTAGTGCCTAAGAGTGTGTATGGTGACATCTTGTGGAGCAGTGAAC	5579

Human-BIC_GRCh37.p5	ATGACCCTCATTGGTTTGTAAAGCATTGGGTCAAATGCCACGGGAATGTAACAGGTAA	5637
Human-BIC_HuRef	ATGACCCTCATTGGTTTGTAAAGCATTGGGTCAAATGCCACGGGAATGTAACAGGTAA	5639

Human-BIC_GRCh37.p5	ATGGTCTTTGCCTTATAACACAGGGTATCCCATCCGTGTAAGACAATGAATTTTTTAAAAA	5697
Human-BIC_HuRef	ATGGTCTTTGCCTTATAACACAGGGTATCCCATCCGTGTAAGACAATGAATTTTTTAAAAA	5699

Human-BIC_GRCh37.p5	GGCAAAACCAAACCTTTTGTTTACATCATTTCCTTAAATAGTTCTTAGTACACAAATTC	5757
Human-BIC_HuRef	GGCAAAACCAAACCTTTTGTTTACATCATTTCCTTAAATAGTTCTTAGTACACAAATTC	5759

Human-BIC_GRCh37.p5	TTCCTTGCTTGGGGCCATTATGGTGTGTGGAAGTAGAAAAAGATAAACTGTAGCTTACAG	5817
Human-BIC_HuRef	TTCCTTGCTTGGGGCCATTATGGTGTGTGGAAGTAGAAAAAGATAAACTGTAGCTTACAG	5819

Human-BIC_GRCh37.p5	AAATAGAAAAGCAATTTTTTCTATGATAGAGGCAAACGGATACAAAAACAAACAGGTA	5877
Human-BIC_HuRef	AAATAGAAAAGCAATTTTTTCTATGATAGAGGCATACGGATACAAAAACAAACAGGTA	5879
	*****:*****	
Human-BIC_GRCh37.p5	ACACATAATAAGTTCCAAATGAGGCATTTTGTGAAATTCAGTGTTGAGCATAAACAGTG	5937
Human-BIC_HuRef	ACACATAATAAGTTCCAAATGAGGCATTTTGTGAAATTCAGTGTTGAGCATAAACAGTG	5939

Supplemental File2

Human-BIC_GRCh37.p5	AACTCAAATGCACAGAGGAGGCGTCATGGAAGGGTGACAAAACACTCCAGAGCAATAACA	5997
Human-BIC_HuRef	AACTCAAATGCACAGAGGAGGCGTCATGGAAGGGTGACAAAACACTCCAGAGCAATAACA	5999

Human-BIC_GRCh37.p5	GCTACCCTATTTTCTGTTCCCTGGGAGTAGGGAGAAAAGACATCAAATCAAATTATAAA	6057
Human-BIC_HuRef	GCTACCCTATTTTCTGTTCCCTGGGAGTAGGGAGAAAAGACATCAAATCAAATTATAAA	6059

Human-BIC_GRCh37.p5	TTTAAAAAAGTATTTAAATTTCTCTTATGGAAATATATTAAGAAGTTTGTAGGCAAATGG	6117
Human-BIC_HuRef	TTTAAAAAAGTATTTAAATTTCTCTTATGGAAATATATTAAGAAGTTTGTAGGCAAATGG	6119

Human-BIC_GRCh37.p5	AAAACGTTTTGTGGAAACAAGAAATAAGAAAGAATGGCCATCACTTAAAGCAACAGAATG	6177
Human-BIC_HuRef	AAAACGTTTTGTGGAAACAAGAAATAAGAAAGAATGGCCATCACTTAAAGCAACAGAATG	6179

Human-BIC_GRCh37.p5	TATCTCTCCCCTAGCTCTCCCCTCCCTACCCACAGCTTTATTACATTTGTTCTATAAC	6237
Human-BIC_HuRef	TATCTCTCCCCTAGCTCTCCCCTCCCTACCCACAGCTTTATTACATTTGTTCTATAAC	6239

Human-BIC_GRCh37.p5	ATTTTCAGCACAGTTTCAGACCTTCCGCTGAGCCAGTGTGAGGTGAGGGTGTGAGGAAGCG	6297
Human-BIC_HuRef	ATTTTCAGCACAGTTTCAGACCTTCCGCTGAGCCAGTGTGAGGTGAGGGTGTGAGGAAGCG	6299

Human-BIC_GRCh37.p5	AGTCCCTGCAGTCAGACTCCAGCTGGCTGTCGTCCTGCTTCTGCTTATTCCACAGAATGA	6357
Human-BIC_HuRef	AGTCCCTGCAGTCAGACTCCAGCTGGCTGTCGTCCTGCTTCTGCTTATTCCACAGAATGA	6359

Human-BIC_GRCh37.p5	GTCTGGTGGGGGAGAGGAAATTCCTAACCTGTTTTTTTTTACACATCTTCATCAGAAAAG	6417
Human-BIC_HuRef	GCCTGGTGGGGGAGAGGAAATTCCTAACCTGTTTTTTTTTACACATCTTCATCAGAAAAG	6419
	* *****	
Human-BIC_GRCh37.p5	CGAAAGCACTAATTACTGTCCATAATAAACTACTGGGAAGGTTACTTAGCTTGTAAGTA	6477
Human-BIC_HuRef	CGAAAGCACTAATTACTGTCCATAATAAACTACTGGGAAGGTTACTTAGCTTGTAAGTA	6479

Human-BIC_GRCh37.p5	AGTTCCACAAAGCCATTTTCAGTAAAAACTTCTGTTCTAAAATTTGGGAAAAGCAGGATA	6537
Human-BIC_HuRef	AGTTCCACAAAGCCATTTTCAGTAAAAACTTCTGTTCTAAAATTTGGGAAAAGCAGGATA	6539

Supplemental File2

Human-BIC_GRCh37.p5	ATCCTCTAAGGCTGACATTCTTTCTCTTTTGTGCATTTACAACCTAAACGGTCACTGATAC	6597
Human-BIC_HuRef	ATCCTCTAAGGCTGACATTCTTTCTCTTTTGTGCATTTACAACCTAAACGGTCACTGATAC	6599

Human-BIC_GRCh37.p5	ACATTTCCACAGTGACCCTGCAATATCCACATTGGCTTTCTTCTAAGACACTTCAAAAAT	6657
Human-BIC_HuRef	ACATTTCCACAGTGACCCTGCAATATCCACATTGGCTTTCTTCTAAGACACTTCAAAAAT	6659

Human-BIC_GRCh37.p5	ACATCACACCTTTATGTGTTAAATATCACTATTGGCATATATCTTTAAAAACATTTATTT	6717
Human-BIC_HuRef	ACATCACACCTTTATGTGTTAAATATCACTATTGGCATATATCTTTAAAAACATTTATTT	6719

Human-BIC_GRCh37.p5	TCTTAATTCTCAAAAATACAGAAAAGAATGTTATGCTATTGTGTGCACAAACTGCTATTTT	6777
Human-BIC_HuRef	TCTTAATTCTCAAAAATACAGAAAAGAATGTTATGCTATTGTGTGCACAAACTGCTATTTT	6779

Human-BIC_GRCh37.p5	CAATAAGGAGCTCTTAATTTAGAAAAGTTGCTATTTTTCAATAAAGAGCTCTCAATTAGAA	6837
Human-BIC_HuRef	CAATAAGGAGCTCTTAATTTAGAAAAGTTGCTATTTTTCAATAAAGAGCTCTCAATTAGAA	6839

Human-BIC_GRCh37.p5	AATATCAAGAAGTGATGTTAAGTTTTTATGGAAATAAATAAAGTATCATGACATGAAAAG	6897
Human-BIC_HuRef	AATATCAAGAAGTGATGTTAAGTTTTTATGGAAATAAATAAAGTATCATGACATGAAAAG	6899

Human-BIC_GRCh37.p5	TTTATAATTTTTCCCCCAGCAATGGCTTACTCAGGGAATTTTTCTTATATGTAAAGTTAA	6957
Human-BIC_HuRef	TTTATAATTTTTCCCCCAGCAATGGCTTACTCAGGGAATTTTTCTTATATGTAAAGTTAA	6959

Human-BIC_GRCh37.p5	TGATCTGAAAAGTGGTAATCTTATCATTCACCAAGATTTTCAGGATATAAGTTATTCCTAC	7017
Human-BIC_HuRef	TGATCTGAAAAGTGGTAATCTTATCATTCACCAAGATTTTCAGGATATAAGTTATTCCTAC	7019

Human-BIC_GRCh37.p5	AGAACAATCCATTTTTACCTTTAAAGATGAGTTTTGTGTACTTCAGAAGATGTGACGCCAG	7077
Human-BIC_HuRef	AGAACAATCCATTTTTACCTTTAAAGATGAGTTTTGTGTACTTCAGAAGATGTGACGCCAG	7079

Human-BIC_GRCh37.p5	TTGGCCACCATCTCAATCAGTAGTAAGTCACACCATCAATCCCTTGTTAATGATGGAAC	7137
Human-BIC_HuRef	TTGGCCACCATCTCAATCAGTAGTAAGTCACACCATCAATCCCTTGTTAATGATGGAAC	7139

Supplemental File2

Human-BIC_GRCh37.p5	CATGTGAAGTCAAGAGGAAACATAATACTCTTTACCTCATTCCCTGGTAGCAGAGAAGTT	7197
Human-BIC_HuRef	CATGTGAAGTCAAGAGGAAACATAATACTCTTTACCTCATTCCCTGGTAGCAGAGAAGTT	7199

Human-BIC_GRCh37.p5	GACTCATCTTTAATGTCAGTTATTGAGATGTAACACAGAATCATATTCTACAGAAAATAT	7257
Human-BIC_HuRef	GACTCATCTTTAATGTCAGTTATTGAGATGTAACACAGAATCATATTCTACAGAAAATAT	7259

Human-BIC_GRCh37.p5	GTGATAAACTTTACACAAATGAATACACTTTAGAAAGGCAGTCATTTGGATTTTCTTTTT	7317
Human-BIC_HuRef	GTGATAAACTTTACACAAATGAATACACTTTAGAAAGGCAGTCATTTGGATTTTCTTTTT	7319

Human-BIC_GRCh37.p5	GTCAGAGAACATTGCAAGTCTTCCTGAAGAATTTCTGAGAAATTAACACTTTATATGAC	7377
Human-BIC_HuRef	GTCAGAGAACATTGCAAGTCTTCCTGAAGAATTTCTGAGAAATTAACACTTTATATGAC	7379

Human-BIC_GRCh37.p5	ATTTTACAGCATGTAGAGAGGTTGAAACTCAGAGAACTAAAACCTCAGATGATAGTCTAAA	7437
Human-BIC_HuRef	ATTTTACAGCATGTAGAGAGGTTGAAACTCAGAGAACTAAAACCTCAGATGATAGTCTAAA	7439

Human-BIC_GRCh37.p5	TACTTAATTTGTTGCTGCTTTATGCTGGACATGAAAAGTGTGAGCTTAAATTATAAATAA	7497
Human-BIC_HuRef	TACTTAATTTGTTGCTGCTTTATGCTGGACATGAAAAGTGTGAGCTTAAATTATAAATAA	7499

Human-BIC_GRCh37.p5	AAAACCTATTGAGCTATCAAACCTATTTGGGGTACATCCTTATCTTTCTCTAAATTACTCT	7557
Human-BIC_HuRef	AAAACCTGTTGAGCTATCAAACCTATTTGGGGTACATCCTTATCTTTCTCTAAATTACTCT	7559

Human-BIC_GRCh37.p5	TTATTCCCATTAAAATCCACCTATCCCGGGTCTCTCTCCTCAGCCCTTCACCTCTGCTT	7617
Human-BIC_HuRef	TTATTCCCATTAAAATCCACCTATCCCGGGTCTCTCTCCTCAGCCCTTCACCTCTGCTT	7619

Human-BIC_GRCh37.p5	TCAAAGATGACTAACTAACCTAATAAACACATCTAAGGTGATGTGTCAACTTCAACCCCA	7677
Human-BIC_HuRef	TCAAAGATGACTAACTAACCTAATAAACACATCTAAGGTGATGTGTCAACTTCAACCCCA	7679

Human-BIC_GRCh37.p5	ACCCTTTTTCCCCAG ATAACTTGTCTGCATTTCAAGAACAACCTACCAGAGACCTTACCT	7737
Human-BIC_HuRef	ACCCTTTTTCCCCAG ATAACTTGTCTGCATTTCAAGAACAACCTACCAGAGACCTTACCT	7739

Supplemental File2

Human-BIC_GRCh37.p5	GTCACCTTGGCTCTCCACCCAATGGAGATGGCTCTAATG GTAAGGAATTCTATCTTAAG	7797
Human-BIC_HuRef	GTCACCTTGGCTCTCCACCCAATGGAGATGGCTCTAATG GTAAGGAATTCTATCTTAAG	7799

Human-BIC_GRCh37.p5	TAAAAGGGAAGGGAAACACGCTGACAGATGCAGTTTTTTATAAAGGCAGGTCATTGGGGCA	7857
Human-BIC_HuRef	TAAAAGGGAAGGGAAACACGCTGACAGATGCAGTTTTTTATAAAGGCAGGTCATTGGGGCA	7859

Human-BIC_GRCh37.p5	CCAAGTTGGCAGCCGCTTTCAACTTTTGATTCTACCTCAAAAGGTAACCAAGAAATCGTT	7917
Human-BIC_HuRef	CCAAGTTGGCAGCCGCTTTCAACTTTTGATTCTACCTCAAAAGGTAACCAAGAAATCGTT	7919

Human-BIC_GRCh37.p5	GTTATTCTAAAGATTATGACAAGTCCAAAGTTTCACAGAATCCTGATTTTTTATACACTTG	7977
Human-BIC_HuRef	GTTATTCTAAAGATTATGACAAGTCCAAAGTTTCACAGAATCCTGATTTTTTATACACTTG	7979

Human-BIC_GRCh37.p5	CATTAATCACTGCTTACTTCCATGATGTAAACCAAACTGCAGCGGCAGAATATAGAGAA	8037
Human-BIC_HuRef	CATTAATCACTGCTTACTTCCATGATGTAAACCAAACTGCAGCGGCAGAATATAGAGAA	8039

Human-BIC_GRCh37.p5	TCAGAATAAATTCTGATAGAAAAGGCAGATACTGTTTCCACATATACAAGTATATGCTAA	8097
Human-BIC_HuRef	TCAGAATAAATTCTGATAGAAAAGGCAGATACTGTTTCCACATATACAAGTATATGCTAA	8099

Human-BIC_GRCh37.p5	TTGCTTTTAGCAAACCTGATCCAAATAGGAATCAACATTATTCCATCTTAATGATTATGTT	8157
Human-BIC_HuRef	TTGCTTTTAGCAAACCTGATCCAAATAGGAATCAACATTATTCCATCTTAATGATTATGTT	8159

Human-BIC_GRCh37.p5	TTTGATTGGTACACATAAATGTTAAAGTGGGAAAATATGCAGAGAAAGTTACCTAAACTA	8217
Human-BIC_HuRef	TTTGATTGGTACACATAAATGTTAAAGTGGGAAAATATGCAGAGAAAGTTACCTAAACTA	8219

Human-BIC_GRCh37.p5	AATCACTTTAATTTTCAACAACATAATTACATTCCATTTACCTACTAAAATGGCTTTGG	8277
Human-BIC_HuRef	AATCACTTTAATTTTCAACAACATAATTACATTCCATTTACCTACTAAAATGGCTTTGG	8279

Human-BIC_GRCh37.p5	ACCTAGAATTTGTATTGCTACATCAATATAAGATGACTTTCAGTAAAAATAGATGTACAG	8337
Human-BIC_HuRef	ACCTAGAATTTGTATTGCTACATCAATATAAGATGACTTTCAGTAAAAATAGATGTACAG	8339

Supplemental File2

Human-BIC_GRCh37.p5	TTGATTTGTAACAACAAATTAATAGTTTTAAATTATTTGTATATTTCAAGGTAAATAAAA	8397
Human-BIC_HuRef	TTGATTTGTAACAACAAATTAATAGTTTTAAATTATTTGTATATTTCAAGGTAAATAAAA	8399

Human-BIC_GRCh37.p5	TTAGAGCTATCCCACAATCGCTTTGGTTATGAAATTCGACCACTGTAACCTTTTTTTAAAG	8457
Human-BIC_HuRef	TTAGAGCTATCCCACAATCGCTTTGGTTATGAAATTCGACCACTGTAACCTTTTTTTAAAG	8459

Human-BIC_GRCh37.p5	AAAACTTTATGGTGTGCAGTTCCTTTGGTATGCAAATATTAATGGTTGGTGCTGAGAAT	8517
Human-BIC_HuRef	AAAACTTTATGGTGTGCAGTTCCTTTGGTATGCAAATATTAATGGTTGGTGCTGAGAAT	8519

Human-BIC_GRCh37.p5	AAGCAGCAATATAGAAATATATATAATTGTAGAAGAATATAACCTATGATTTAGACATAA	8577
Human-BIC_HuRef	AAGCAGCAATATAGAAATATATATAATTGTAGAAGAATATAACCTATGATTTAGACATAA	8579

Human-BIC_GRCh37.p5	AATGAGATCCTTACAAGATAAAGAGTTATGGAGATGGATGATAATGATAGTTGTAGAACA	8637
Human-BIC_HuRef	AATGAGATCCTTACAAGATAAAGAGTTATGGAGATGGATGATAATGATAGTTGTAGAACA	8639

Human-BIC_GRCh37.p5	TTATGACTAAGTGTTTAAATATAGCGGACCTGTACACTTAAAAATGGTGAAGATGTTAAAC	8697
Human-BIC_HuRef	TTATGACTAAGTGTTTAAATATAGCGGACCTGTACACTTAAAAATGGTGAAGATGTTAAAC	8699

Human-BIC_GRCh37.p5	TTACATTATGTTTACATTACATATTTACCACAATAAAAAATTTTTGAAGGAAAACCAGA	8757
Human-BIC_HuRef	TTACATTATGTTTACATTACATATTTACCACAATAAAAAATTTTTGAAGGAAAACCAGA	8759

Human-BIC_GRCh37.p5	ACTTTAATGACAACTTAGGACATATTATGCTCTGAATATATAGTTTTGATAACGTCTTT	8817
Human-BIC_HuRef	ACTTTAATGACAACTTAGGACATATTATGCTCTGAATATATAGTTTTGATAACGTCTTT	8819

Human-BIC_GRCh37.p5	CCTGGCAAATCAACAAGGTAAGAATAAAAGGATATTCTGAAATCTTTTTTTTTCTTTGGA	8877
Human-BIC_HuRef	CCTGGCAAATCAACAAGGTAAGAATAAAAGGATATTCTGAAATCTTTTTTTTTCTTTGGA	8879

Human-BIC_GRCh37.p5	GACAGAGTCTTGCTCTGTTGCCAGGCTGGAGTGCAGTGGCACAATCTCGGCTCACTACT	8937
Human-BIC_HuRef	GACAGAGTCTTGCTCTGTTGCCAGGCTGGAGTGCAGTGGCACAATCTCGGCTCACTACT	8939

Supplemental File2

Human-BIC_GRCh37.p5	ACCTTCTGCCTCCCAGGTTCAAGTGATCCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATT	8997
Human-BIC_HuRef	ACCTTCTGCCTCCCAGGTTCAAGTGATCCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATT	8999

Human-BIC_GRCh37.p5	ATAGGCGTGCGCCACCACGCCTAGCTAATTTTTTTTGTATTTTTTAGTAGAGACGGGGTTTT	9057
Human-BIC_HuRef	ATAGGCGTGCGCCACCACGCCTAGCTAATTTTTTTTGTATTTTTTAGTAGAGACGGGGTTTT	9059

Human-BIC_GRCh37.p5	ACCATGTTGGTCACGCTGGTCTCAAACCTCTGACCTCATGATCCGCCACCTCGGCCTCC	9117
Human-BIC_HuRef	ACCATGTTGGTCACGCTGGTCTCAAACCTCTGACCTCATGATCCGCCACCTCGGCCTCC	9119

Human-BIC_GRCh37.p5	CAAAATGCTAGGATTACAGGCATGAGACACCACCCAGCCAGATATTCTTAAATCTTAT	9177
Human-BIC_HuRef	CAAAATGCTAGGATTACAGGCATGAGACACCCGACCCAGCCAGATATTCTTAAATCTTAT	9179

Human-BIC_GRCh37.p5	GCTCACACTCCACCCCCCAAAAAAATGTCTTTCAGGAAAGCATAAATTTAAGGAAAAA	9237
Human-BIC_HuRef	GCTCACACTCCACCCCCCAAAAAAATGTCTTTCAGGAAAGCATAAATTTAAGGAAAAA	9239

Human-BIC_GRCh37.p5	TTTCCCAAAGTGCCACCTTCAGCTTCATTCTTAGCACCAGAGGAAGAATTGCCTGTCATA	9297
Human-BIC_HuRef	TTTCCCAAAGTGCCACCTTCAGCTTCATTCTTAGCACCAGAGGAAGAATTGCCTGTCATA	9299

Human-BIC_GRCh37.p5	TAATGAAAGATCCTTGGTGTTATCATTAATCTAGTATACATAGTGCTTCCTCTTGGTAGA	9357
Human-BIC_HuRef	TAATGAAAGATCCTTGGTGTTATCATTAATCTAGTATACATAGTGCTTCCTCTTGGTAGA	9359

Human-BIC_GRCh37.p5	TTTTTACCTACTGTGAGAAGGAATGATTTTGATACTCAGACAGTGTGTAGTAATTTGTTA	9417
Human-BIC_HuRef	TTTTTACCTACTGTGAGAAGGAATGATTTTGATACTCAGACAGTGTGTAGTAATTTGTTA	9419

Human-BIC_GRCh37.p5	AGAACATTTAACTTGGAACTATGCTACACAGTAAAACCTTATACTGACAATGGATATTTT	9477
Human-BIC_HuRef	AGAACATTTAACTTGGAACTATGCTACACAGTAAAACCTTATACTGACAATGGATATTTT	9479

Human-BIC_GRCh37.p5	ATGTGGTAGGCCTAAGAAGTATTGTGGAGTGAGGGGACTGGAAGTATATCTGCAGAACTA	9537
Human-BIC_HuRef	ATGTGGTAGGCCTAAGAAGTATTGTGGAGTGAGGGGACTGGAAGTATATCTGCAGAACTA	9539

Supplemental File2

Human-BIC_GRCh37.p5	CCTAGTCAAAGACCCCAGTCTAATTTCTAATATATAATTCATATAAAATTACTCTTGCATT	9597
Human-BIC_HuRef	CCTAGTCAAAGACCCCAGTCTAATTTCTAATGTATAATTCATATAAAATTACTCTTGCATT	9599

Human-BIC_GRCh37.p5	GCTATACATTAAACATTATGCTTGTGCACATTCTTACTTGGTTAGCACTGTCACTACTGAT	9657
Human-BIC_HuRef	GCTATACATTAAACATTATGCTTGTGCACATTCTTACTTGGTTAGCACTGTCACTACTGAT	9659

Human-BIC_GRCh37.p5	TGTCAGGCCTATAAATTGTGTATAAATTCTTCCCCTGCCACTTTACCAGCTGGTGGCCACAC	9717
Human-BIC_HuRef	TGTCAGGCCTATAAATTGTGTATAAATTCTTCCCCTGCCACTTTACCAGCTGGTGGCCACAC	9719

Human-BIC_GRCh37.p5	CGATTCCAGAAAGAACTACTTTATTTCTTATTACCTCATGAAAGCACCTCTGCCAGTG	9777
Human-BIC_HuRef	CGATTCCAGAAAGAACTACTTTATTTCTTATTACCTCATGAAAGCACCTCTGCCAGTG	9779

Human-BIC_GRCh37.p5	CCTTGGCTAATAGACTGGCCTTTGTTGTCTATGACCACTAATTTCCCACTCAGGCATATAG	9837
Human-BIC_HuRef	CCTTGGCTAATAGACTGGCCTTTGTTGTCTATGACCACTAATTTCCCACTCAGGCATATAG	9839

Human-BIC_GRCh37.p5	CAATTCTGTTGTTGGTTGCTTAGCCCAGTCAAAAACACTGGAAGTGGACATAGACTCCAC	9897
Human-BIC_HuRef	CAATTCTGTTGTTGGTTGCTTAGCCCAGTCAAAAACACTGGAAGTGGACATAGACTCCAC	9899

Human-BIC_GRCh37.p5	ACTGATGAATGAATGACCTTCTAGTCATTCTAATGTCCTTAAAAGTCTACTATTTTTTAAA	9957
Human-BIC_HuRef	ACTGATGAATGAATGACCTTCTAGTCATTCTAATGTCCTTAAAAGTCTACTATTTTTTAAA	9959

Human-BIC_GRCh37.p5	TTGTAGAATATATATATATATATATATATATATATTTTTTTTTTTTTTT-CTGGGATATTTCTCCTTT	10016
Human-BIC_HuRef	TTGTAGAATATATATATATATATATATATATATATATTTTTTTTTTTTTTTCTGGGATATTTCTCCTTT	10019

Human-BIC_GRCh37.p5	CTTCTGTTTCATTAATGTTTTTCATCTATCATTGTGTTTTAAATATGACCTAAGGTTCTAT	10076
Human-BIC_HuRef	CTTCTGTTTCATTAATGTTTTTCATCTATCATTGTGTTTTAAATATGACCTAAGGTTCTAT	10079

Human-BIC_GRCh37.p5	AGTATATTTAGACAAACTTCTCATTCTCTGCAGTGTTTCGGAATTCATCATGCCTGTATG	10136
Human-BIC_HuRef	AGTATATTTAGACAAACTTCTCATTCTCTGCAGTGTTTCGGAATTCATCATGCCTGTATG	10139

Supplemental File2

Human-BIC_GRCh37.p5	ACAAGGTTGTGTTTGGAGAACAAAAGGGGACCTGTGTGACATGTTTTATTTCAATATACAT	10196
Human-BIC_HuRef	ACAAGGTTGTGTTTGGAGAACAAAAGGGGACCTGTGTGACATGTTTTATTTCAATATACAT	10199

Human-BIC_GRCh37.p5	TTAGAGTTTGAACAAATAAAAAAGCTATTAGAATTTTAAATATATATAACACATTATCA	10256
Human-BIC_HuRef	TTAGAGTTTGAACAAATAAAAAAGCTATTAGAATTTTAAATATATATAACACATTATCA	10259

Human-BIC_GRCh37.p5	AAAACTGTCACTTTTCTGAGTGCTCTAATCAGGCAATTCGTATGTATATTTAAAAAGA	10316
Human-BIC_HuRef	AAAACTGTCACTTTTCTGAGTGCTCTAATCAGGCAATTCGTATGTATATTTAAAAAGA	10319

Human-BIC_GRCh37.p5	GGGAAAAAGCTAATTAGTATACTAAATATATTTATTTTAAATACCTGTGCTCATATGTTAT	10376
Human-BIC_HuRef	GGGAAAAAGCTAATTAGTATACTAAATATATTTATTTTAAATACCTGTGCTCATATGTTAT	10379

Human-BIC_GRCh37.p5	CTTTAAAGAACAGGAATAAAAATTTATGGGTAGAATAGTATGCCAGCAATTTACCTTCAAT	10436
Human-BIC_HuRef	CTTTAAAGAACAGGAATAAAAATTTATGGGTAGAATAGTATGCCAGCAATTTACCTTCAAT	10439

Human-BIC_GRCh37.p5	ACAAATTAACACATCTTTTAAAGAAAAGGGCGAGTTATATTGGCTGGGGTGGCACTAACA	10496
Human-BIC_HuRef	ACAAATTAACACATCTTTTAAAGAAAAGGGCGAGTTATATTGGCTGGGGTGGCACTAACA	10499

Human-BIC_GRCh37.p5	CTACATTATTAATATGTATTTATTGAGCATTACTGTGTCCAGGACCCTGTAAGGGGGAA	10556
Human-BIC_HuRef	CTACATTATTAATATGTATTTATTGAGCATTACTGTGTCCAGGACCCTGTAAGGGGGAA	10559

Human-BIC_GRCh37.p5	AAAAAGTCCTTGTTTTTACAATCTTTATTGACTGAAATTCTGTAAAATGAATTGAATTCC	10616
Human-BIC_HuRef	AAAAAGTCCTTGTTTTTACAATCTTTATTGACTGAAATTCTGTAAAATGAATTGAATTCC	10619

Human-BIC_GRCh37.p5	TGAAGTGACATCATTTAACCCAAATTTTTTCATCATCAACTAATTCATCTCAGAAAACAG	10676
Human-BIC_HuRef	TGAAGTGACATCATTTAACCCAAATTTTTTCATCATCAACTAATTCATCTCAGAAAACAG	10679

Human-BIC_GRCh37.p5	TAAAGTTTAAAAAAAATACTATCAGTAAGAATAATATATTTCCCTTGTTGGAAATTTTC	10736
Human-BIC_HuRef	TAAAGTTTAAAAAAAATACTATCAGTAAGAATAATATATTTCCCTTGTTGGAAATTTTC	10739

Supplemental File2

Human-BIC_GRCh37.p5	CAAACCACGATATTCTGCCCTGTCAAAATATATTTCACTGGGGAATTTTTTACTTCATACG	10796
Human-BIC_HuRef	CAAACCACGATATTCTGCCCTGTCAAAATATATTTCACTGGGGAATTTTTTACTTCATACG	10799

Human-BIC_GRCh37.p5	TTTCTTTTGAACCTTAGTCACATTTTTATATCTAGCTGGTTTCATTATTAAATAAAAGAAA	10856
Human-BIC_HuRef	TTTCTTTTGAACCTTAGTCACATTTTTATATCTAGCTGGTTTCATTATTAAATAAAAGAAA	10859

Human-BIC_GRCh37.p5	AGGTGATTCCCCTCTTGTACTGCAGGAGACCACATACTTGAATGATACTCTAACTTCTAG	10916
Human-BIC_HuRef	AGGTGATTCCCCTCTTGTACTGCAGGAGACCACATACTTGAATGATACTCTAACTTCTAG	10919

Human-BIC_GRCh37.p5	GTTCTGTTATAGTAACACTGAAATCAGAAACCTGTGGGAGAAATGTCACCTTATCTGAGA	10976
Human-BIC_HuRef	GTTCTGTTATAGTAACACTGAAATCAGAAACCTGTGGGAGAAATGTCACCTTATCTGAGA	10979

Human-BIC_GRCh37.p5	GAGTAAAAATCAGACTCTAAAAGGAAGTAGCAAATTCATCTTGTCTTTTTTTTTAATCAAC	11036
Human-BIC_HuRef	GAGTAAAAATCAGACTCTAAAAGGAAGTAGCAAATTCATCTTGTCTTTTTTTTTAATCAAC	11039

Human-BIC_GRCh37.p5	CCTCTGCCTAAGACAAGTAGTTTGAACACAGAGGACTCTTTAAGTCATACTTCCTTTAT	11096
Human-BIC_HuRef	CCTCTGCCTAAGACAAGTAGTTTGAACACAGAGGACTCTTTAAGTCATACTTCCTTTAT	11099

Human-BIC_GRCh37.p5	GTAGTCAAACCAAAGCCACTGGGTAGTGCTTTCCCCAAAGGAATCTCTAAATAGTAGAC	11156
Human-BIC_HuRef	GTAGTCAAACCAAAGCCACTGGGTAGTGCTTTCCCCAAAGGAATCTCTAAATAGTAGAC	11159

Human-BIC_GRCh37.p5	GGGGACATTTTCAGATAGATTTCGTTTGTAGGCAAACCTCCATTGCTTGTATCACATTTCC	11216
Human-BIC_HuRef	GGGGACATTTTCAGATAGATTTCGTTTGTAGGCAAACCTCCATTGCTTGTATCACATTTCC	11219

Human-BIC_GRCh37.p5	TGAAAGAATAAAGGTAAAACCTTCAACTATGTATTACAGAAAGAAAAATTCAGCCTGAACC	11276
Human-BIC_HuRef	TGAAAGAATAAAGGTAAAACCTTCAACTATGTATTACAGAAAGAAAAATTCAGCCTGAACC	11279

Human-BIC_GRCh37.p5	CTACCCTTATAAAAACAGGTTAATTGGGTTTTAATTTTCATAAATCATAAAGGACTATTTT	11336
Human-BIC_HuRef	CTACCCTTATAAAAACAGGTTAATTGGGTTTTAATTTTCATAAATCATAAAGGACTATTTT	11339

Supplemental File2

Human-BIC_GRCh37.p5	GAACATTTGGGCCTTTAATTGTCTAGCTCCTAGATGAAGTACAAATCAGAAAAAAAAAAAAA	11396
Human-BIC_HuRef	GAACATTTGGGCCTTTAATTGTCTAGCTCCTAGATGAAGTACAAATCAG-AAAAAAAAAAAA	11398

Human-BIC_GRCh37.p5	ACTGTACTGTGTCAGAATGCAAGCTTTCCTCTTTGCATTTTGGCATTGAAAACCTCCGAA	11456
Human-BIC_HuRef	ACTGTACTGTGTCAGAATGCAAGCTTTCCTCTTTGCATTTTGGCATTGAAAACCTCCGAA	11458

Human-BIC_GRCh37.p5	GAGCGGTTTTTGTTTTTTATTTAAAGAAGATGATACATATGTGTACCCGATTCAAACTA	11516
Human-BIC_HuRef	GAGCGGTTTTTGTTTTTTATTTAAAGAAGATGATACATATGTGTACCCGATTCAAACTA	11518

Human-BIC_GRCh37.p5	GAGAATAGAATTTAAAACATAATTTTCAAAGTCTTCAAATATGCCTAAAGGTAACAATGT	11576
Human-BIC_HuRef	GAGAATAGAATTTAAAACATAATTTTCAAAGTCTTCAAATATGCCTAAAGGTAACAATGT	11578

Human-BIC_GRCh37.p5	CATCTTTTAATTGCCAATTTCTCTACCACCTTTCAAAAAATTACTTCCAAGGATTTAATGA	11636
Human-BIC_HuRef	CATCTTTTAATTGCCAATTTCTCTACCACCTTTCAAAAAATTACTTCCAAGGATTTAATGA	11638

Human-BIC_GRCh37.p5	GCTCCTTCCTTTCAACAGAAAATGGACTATTTTCCTTTTCAGATTTACTATATGCTGTCAC	11696
Human-BIC_HuRef	GCTCCTTCCTTTCAACAGAAAATGGACTATTTTCCTTTTCAGATTTACTATATGCTGTCAC	11698

Human-BIC_GRCh37.p5	TCCAGCTTTATAACCGCATGTGCATACACAAACATTTCTTTCTCTCTTGCAG GTGGCACA	11756
Human-BIC_HuRef	TCCAGCTTTATAACCGCATGTGCATACACAAACATTTCTTTCTCTCTTGCAG GTGGCACA	11758

Human-BIC_GRCh37.p5	AACCAGGAAGGGGAAATCTGTGGTTTTAAATTTCTTTATGCCTCATCCTCTGAGTGCTGAAG	11816
Human-BIC_HuRef	AACCAGGAAGGGGAAATCTGTGGTTTTAAATTTCTTTATGCCTCATCCTCTGAGTGCTGAAG	11818

Human-BIC_GRCh37.p5	GCTTGCTGTAGGCTGTATGCTGTTAATGCTAATCGTGATAGGGGTTTTTGCTCCAAGT	11876
Human-BIC_HuRef	GCTTGCTGTAGGCTGTATGCTGTTAATGCTAATCGTGATAGGGGTTTTTGCTCCAAGT	11878

Human-BIC_GRCh37.p5	ACTCCTACATATTAGCATTAAACAGTGTATGATGCCTGTTACTAGCATTACATGGAACAA	11936
Human-BIC_HuRef	ACTCCTACATATTAGCATTAAACAGTGTATGATGCCTGTTACTAGCATTACATGGAACAA	11938

Supplemental File2

Human-BIC_GRCh37.p5	ATTGCTGCCGTGGGAGGATGACAAAGAAGCATGAGTCACCCTGCTGGATAAACTTAGACT	11996
Human-BIC_HuRef	ATTGCTGCCGTGGGAGGATGACAAAGAAGCATGAGTCACCCTGCTGGATAAACTTAGACT	11998

Human-BIC_GRCh37.p5	TCAGGCTTTATCATTNTTCAATCTGTTAATCATAATCTGGTCACTGGGATGTTCAACCTT	12056
Human-BIC_HuRef	TCAGGCTTTATCATTNTTCAATCTGTTAATCATAATCTGGTCACTGGGATGTTCAACCTT	12058

Human-BIC_GRCh37.p5	AAACTAAGTTTTGAAAGTAAGGTTATTTAAAAGATTTATCAGTAGTATCCTAAATGCAA	12116
Human-BIC_HuRef	AAACTAAGTTTTGAAAGTAAGGTTATTTAAAAGATTTATCAGTAGTATCCTAAATGCAA	12118

Human-BIC_GRCh37.p5	CATTTTCATTTAAATGTCAAGCCCATGTTTGTTTTTATCATTAAACAGAAAATATATTCAT	12176
Human-BIC_HuRef	CATTTTCATTTAAATGTCAAGCCCATGTTTGTTTTTATCATTAAACAGAAAATATATTCAT	12178

Human-BIC_GRCh37.p5	GTCATTCTTAATTGCAGGTTTTGGCTTGTTCAATATAATGTTCAATAACACCTTTGATTC	12236
Human-BIC_HuRef	GTCATTCTTAATTGCAGGTTTTGGCTTGTTCAATATAATGTTCAATAACACCTTTGATTC	12238

Human-BIC_GRCh37.p5	AACTGTTAGAAATGTGGGCTAAACACAAATTTCTATAATATTTTTGTAGTTAAAAATTAG	12296
Human-BIC_HuRef	AACTGTTAGAAATGTGGGCTAAACACAAATTTCTATAATATTTTTGTAGTTAAAAATTAG	12298

Human-BIC_GRCh37.p5	AAGGACTACTAACCTCCAGTTATATCATGGATTGTCTGGCAACGTTTTTTAAAAGATTTA	12356
Human-BIC_HuRef	AAGGACTACTAACCTCCAGTTATATCATGGATTGTCTGGCAACGTTTTTTAAAAGATTTA	12358

Human-BIC_GRCh37.p5	GAAACTGGTACTTTCCCCAGGTAACGATTTTCTGTTCAAGCAACTTCAGTTTAAAATTA	12416
Human-BIC_HuRef	GAAACTGGTACTTTCCCCAGGTAACGATTTTCTGTTCAAGCAACTTCAGTTTAAAATTA	12418

Human-BIC_GRCh37.p5	ATACTTTTATTTGACTCTTAAAGGGAAACTGAAAGGCTATGAAGCTGAATTTTTTTAATG	12476
Human-BIC_HuRef	ATACTTTTATTTGACTCTTAAAGGGAAACTGAAAGGCTATGAAGCTGAATTTTTTTAATG	12478

Human-BIC_GRCh37.p5	AAATATTTTTAACAGTTAGCAGGGTAAATAACATCTGACAGCTAATGAGATATTTTTTCC	12536
Human-BIC_HuRef	AAATATTTTTAACAGTTAGCAGGGTAAATAACATCTGACAGCTAATGAGATATTTTTTCC	12538

Supplemental File2

Human-BIC_GRCh37.p5	ATACAAGATAAAAAGATTTAATCAAAAAATTTTCATATTTGAAATGAAGTCCCAAATCTAG	12596
Human-BIC_HuRef	ATACAAGATAAAAAGATTTAATCAAAAAATTTTCATATTTGAAATGAAGTCCCAAATCTAG	12598

Human-BIC_GRCh37.p5	GTTCAAGTTCAATAGCTTAGCCACATAATACGGTTGTGCGAGCAGAGAATCTACCTTTCC	12656
Human-BIC_HuRef	GTTCAAGTTCAATAGCTTAGCCACATAATACGGTTGTGCGAGCAGAGAATCTACCTTTCC	12658

Human-BIC_GRCh37.p5	ACTTCTAAGCCTGTTTCTTCCTCCAT--ATGGGGATAATACTTTACAAGGTTGTTGTGA	12713
Human-BIC_HuRef	ACTTCTAAGCCTGTTTCTTCCTCCATAAAATGGGGATAATACTTTACAAGGTTGTTGTGA	12718

Human-BIC_GRCh37.p5	GGCTTAGATGAGATAGAGAATTATTCCATAAGATAATCAAGTGCTACATTAATGTTATAG	12773
Human-BIC_HuRef	GGCTTAGATGAGATAGAGAATTATTCCATAAGATAATCAAGTGCTACATTAATGTTATAG	12778

Human-BIC_GRCh37.p5	TTAGATTAATCCAAGAACTAGTCACCCTACTTTATTAGAGAAGAGAAAAGCTAATGATTT	12833
Human-BIC_HuRef	TTAGATTAATCCAAGAACTAGTCACCCTACTTTATTAGAGAAGAGAAAAGCTAATGATTT	12838

Human-BIC_GRCh37.p5	GATTTGCAGAATATTTAAGGTTTGGATTTCTATGCAGTTTTTCTAAATAACCATCACTTA	12893
Human-BIC_HuRef	GATTTGCAGAATATTTAAGGTTTGGATTTCTATGCAGTTTTTCTAAATAACCATCACTTA	12898

Human-BIC_GRCh37.p5	CAAATATGTAACCAAACGTAATTGTTAGTATATTTAATGTAAACTTGTTTTAACAACCTCT	12953
Human-BIC_HuRef	CAAATATGTAACCAAACGTAATTGTTAGTATATTTAATGTAAACTTGTTTTAACAACCTCT	12958

Human-BIC_GRCh37.p5	TCTCAACATTTTGTCCAGGTTATTCACTGTAACCAAATAAATCTCATGAGTCTTTAGTTG	13013
Human-BIC_HuRef	TCTCAACATTTTGTCCAGGTTATTCACTGTAACCAAATAAATCTCATGAGTCTTTAGTTG	13018

Human-BIC_GRCh37.p5	ATTTAAAATAA	13024
Human-BIC_HuRef	ATTTAAAATAA	13029

Supplemental File3

Mouse *Bic* gene (reference assembly) aligned against the alternate assembly.

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Mouse-BIC_GRCm38          ACTTTCCTCATGAAACCAGCTCATCTGAGAAAAACAGCAAAGTTTAAAAAA 50
Mouse-BIC_Mm_Celera      ACTTTCCTCATGAAACCAGCTCATCTGAGAAAAACAGCAAAGTTTAAAAAA 50
*****

Mouse-BIC_GRCm38          GAAATACTATCAGTAAGTATGATATATTTCCCTTGGTTTGAAATTTCCAA 100
Mouse-BIC_Mm_Celera      GAAATACTATCAGTAAGTATGATATATTTCCCTTGGTTTGAAATTTCCAA 100
*****

Mouse-BIC_GRCm38          GCCACGATATTTCTGCCCTGTCAAAAATATATTTCACTGGGGAAATTTTAACT 150
Mouse-BIC_Mm_Celera      GCCACGATATTTCTGCCCTGTCAAAAATATATTTCACTGGGGAAATTTTAACT 150
*****

Mouse-BIC_GRCm38          TGATGCATTTCTTTTGAACCTAATCACATTTCTACATCTAGCTGGTTTCA 200
Mouse-BIC_Mm_Celera      TGATGCATTTCTTTTGAACCTAATCACATTTCTACATCTAGCTGGTTTCA 200
*****

Mouse-BIC_GRCm38          TTATTTAAAGAAAAGAAAAGGTGGTTCCCTCTGGTCCATAAGGGAACCAC 250
Mouse-BIC_Mm_Celera      TTATTTAAAGAAAAGAAAAGGTGGTTCCCTCTGGTCCATAAGGGAACCAC 250
*****

Mouse-BIC_GRCm38          AGACTTGAGTGATGCTTGAACCTTCTAGGTTTCGCGTACAGTAACACTGAAA 300
Mouse-BIC_Mm_Celera      AGACTTGAGTGATGCTTGAACCTTCTAGGTTTCGCGTACAGTAACACTGAAA 300
*****

Mouse-BIC_GRCm38          CCAGAACTTGTGGGAGAAATGTCACCTTTATCTGAGAGAGTAAAATCCAA 350
Mouse-BIC_Mm_Celera      CCAGAACTTGTGGGAGAAATGTCACCTTTATCTGAGAGAGTAAAATCCAA 350
*****

Mouse-BIC_GRCm38          CTCTAACAGGAAAACAGCAAATTCATCTTTTTTCTTTTTCTAAACCACTCT 400
Mouse-BIC_Mm_Celera      CTCTAACAGGAAAACAGCAAATTCATCTTTTTTCTTTTTCTAAACCACTCT 400
*****

Mouse-BIC_GRCm38          GCTGGAGACAAGTCCCTTGAGTCAGAGCTCTTTAAGGCGCACTTCCTTTA 450
Mouse-BIC_Mm_Celera      GCTGGAGACAAGTCCCTTGAGTCAGAGCTCTTTAAGGCGCACTTCCTTTA 450
*****

Mouse-BIC_GRCm38          CATGGGTCAAACCTGAAGCCACCGGTTTGTGAGTCCCCAAAAGGAATCACTG 500
Mouse-BIC_Mm_Celera      CATGGGTCAAACCTGAAGCCACCGGTTTGTGAGTCCCCAAAAGGAATCACTG 500
*****
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Supplemental File3

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Mouse-BIC_GRCm38      GAGGACAACAGGAGCATTTTCAGATACCTTTTCAGGGCAGACCTGCCCTGG 550
Mouse-BIC_Mm_Celera   GAGGACAACAGGAGCATTTTCAGATACCTTTTCAGGGCAGACCTGCCCTGG 550
*****

Mouse-BIC_GRCm38      CTGTACCCCCTATCTTTGAAGAAAAAGAAAAACGAATAAGGTGAAAAATCGC 600
Mouse-BIC_Mm_Celera   CTGTACCCCCTATCTTTGAAGAAAAAGAAAAACGAATAAGGTGAAAAATCGC 600
*****

Mouse-BIC_GRCm38      AACTACTATTTATAGAATCAAAATGGGTTTCATCCATTGAGTTTTAACTTT 650
Mouse-BIC_Mm_Celera   AACTACTATTTATAGAATCAAAATGGGTTTCATCCATTGAGTTTTAACTTT 650
*****

Mouse-BIC_GRCm38      CAAAAATCATAAAGTACCATCCTAAATATCTGAGATTTCTTGAATTGCCT 700
Mouse-BIC_Mm_Celera   CAAAAATCATAAAGTACCATCCTAAATATCTGAGATTTCTTGAATTGCCT 700
*****

Mouse-BIC_GRCm38      AGTGACCTGTGGGATGTACGTCAGAATATTACCCAGAAGTGAAGTTGTGT 750
Mouse-BIC_Mm_Celera   AGTGACCTGTGGGATGTACGTCAGAATATTACCCAGAAGTGAAGTTGTGT 750
*****

Mouse-BIC_GRCm38      CCTTTGAACTTCAGCATTTGTAGAACTATGAACCGTGGCTGTGTTAAAAAT 800
Mouse-BIC_Mm_Celera   CCTTTGAACTTCAGCATTTGTAGAACTATGAACCGTGGCTGTGTTAAAAAT 800
*****

Mouse-BIC_GRCm38      GATACATGTATTTCAAATATTTCCACAGAATTTAAAGTTTGATTTTATAAT 850
Mouse-BIC_Mm_Celera   GATACATGTATTTCAAATATTTCCACAGAATTTAAAGTTTGATTTTATAAT 850
*****

Mouse-BIC_GRCm38      TAGTTTTTTAAATTTGCAAACCTTACAAAAATTTTCCAAAAATTTACTTTAGAA 900
Mouse-BIC_Mm_Celera   TAGTTTTTTAAATTTGCAAACCTTACAAAAATTTTCCAAAAATTTACTTTAGAA 900
*****

Mouse-BIC_GRCm38      GCATTTTCAGAGCTCTTTTCTTTCAAAGCTGAAGTCTACCTTGCCTTCAGA 950
Mouse-BIC_Mm_Celera   GCATTTTCAGAGCTCTTTTCTTTCAAAGCTGAAGTCTACCTTGCCTTCAGA 950
*****

Mouse-BIC_GRCm38      TTCATAATCGTTCACTCTACTTTTATAACTAACTGTGTGCGTACACACAAC 1000
Mouse-BIC_Mm_Celera   TTCATAATCGTTCACTCTACTTTTATAACTAACTGTGTGCGTACACACAAC 1000
*****
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Supplemental File3

Mouse-BIC_GRCm38	TATTTCTTTTTCTCTTTCAG GTGCTGCAAACCAGGAAGGGGAAGTGTGT	1050
Mouse-BIC_Mm_Celera	TATTTCTTTTTCTCTTTCAG GTGCTGCAAACCAGGAAGGGGAAGTGTGT	1050

Mouse-BIC_GRCm38	GGTTTAAAGTTGCATATCCCTTATCCTCTGGCTGCTGGAGGCTTGCTGAAG	1100
Mouse-BIC_Mm_Celera	GGTTTAAAGTTGCATATCCCTTATCCTCTGGCTGCTGGAGGCTTGCTGAAG	1100

Mouse-BIC_GRCm38	GCTGTATGCTGTTAATGCTAATTGTGATAGGGGTTTGGCCTCTGACTGA	1150
Mouse-BIC_Mm_Celera	GCTGTATGCTGTTAATGCTAATTGTGATAGGGGTTTGGCCTCTGACTGA	1150

Mouse-BIC_GRCm38	CTCCTACCTGTTAGCATTAACAGGACACAAGGCCTGTTACTAGCACTCAC	1200
Mouse-BIC_Mm_Celera	CTCCTACCTGTTAGCATTAACAGGACACAAGGCCTGTTACTAGCACTCAC	1200

Mouse-BIC_GRCm38	ATGGAACAAATGGCCACCGTGGGAGGATGACAAGTCCAAGAGTCACCCTG	1250
Mouse-BIC_Mm_Celera	ATGGAACAAATGGCCACCGTGGGAGGATGACAAGTCCAAGAGTCACCCTG	1250

Mouse-BIC_GRCm38	CTGGATGAACGTAGATGTCAGACTCTATCATTTAATGTGCTAGTCATAAC	1300
Mouse-BIC_Mm_Celera	CTGGATGAACGTAGATGTCAGACTCTATCATTTAATGTGCTAGTCATAAC	1300

Mouse-BIC_GRCm38	CTGGTTACTAGGATAGTCCACTGTAAGTGTACGATAAATGTCATTTAAA	1350
Mouse-BIC_Mm_Celera	CTGGTTACTAGGATAGTCCACTGTAAGTGTACGATAAATGTCATTTAAA	1350

Mouse-BIC_GRCm38	AGATAGATCAGCAGTATCCTAAACAACATCTCAACTTCAAGCCCACATGT	1400
Mouse-BIC_Mm_Celera	AGATAGATCAGCAGTATCCTAAACAACATCTCAACTTCAAGCCCACATGT	1400

Mouse-BIC_GRCm38	TTATTTTTTATCTTGAATGGAAAAGTGAAAAGTGTATCATTTTTATTTCAA	1450
Mouse-BIC_Mm_Celera	TTATTTTTTATCTTGAATGGAAAAGTGAAAAGTGTATCATTTTTATTTCAA	1450

Mouse-BIC_GRCm38	AATTATGTTTATAACCATCTTCAATGATTCAACCAGAATACAAAATGAAT	1500
Mouse-BIC_Mm_Celera	AATTATGTTTATAACCATCTTCAATGATTCAACCAGAATACAAAATGAAT	1500

Supplemental File3

Mouse-BIC_GRCm38	GCACTAAAAAGGACATTTCTATATTTCTGTAGTTAAAATT CAGGACGGCC	1550
Mouse-BIC_Mm_Celera	GCACTAAAAAGGACATTTCTATATTTCTGTAGTTAAAATT CAGGACGGCC	1550

Mouse-BIC_GRCm38	ATTCTCGACTGACATCTAGGATTGTCTGGAATACCTCTTGTAAGACTTGG	1600
Mouse-BIC_Mm_Celera	ATTCTCGACTGACATCTAGGATTGTCTGGAATACCTCTTGTAAGACTTGG	1600

Mouse-BIC_GRCm38	AATTGGCATTFTTTTCCACATTACAATGTATTAGTCAACTTTGATTTAAAA	1650
Mouse-BIC_Mm_Celera	AATTGGCATTFTTTTCCACATTACAATGTATTAGTCAACTTTGATTTAAAA	1650

Mouse-BIC_GRCm38	TTTGTAACTCTTGTGTTTTAGTGTAAAGGAAAAATTTAGGGTTAGTGTTAG	1700
Mouse-BIC_Mm_Celera	TTTGTAACTCTTGTGTTTTAGTGTAAAGGAAAAATTTAGGGTTAGTGTTAG	1700

Mouse-BIC_GRCm38	AGTTTAGGGCTAGGTAAGGAAAAACTGAGTCAACACTGAATGATTTTTTTT	1750
Mouse-BIC_Mm_Celera	AGTTTAGGGCTAGGTAAGGAAAAACTGAGTCAACACTGAATGATTTTTTTT	1750

Mouse-BIC_GRCm38	AAAATCTATGAGCCAGCTGTTGGTAGTTTACTCCTTTAATCCCAGCACTC	1800
Mouse-BIC_Mm_Celera	AAAATCTATGAGCCAGCTGTTGGTAGTTTACTCCTTTAATCCCAGCACTC	1800

Mouse-BIC_GRCm38	GGGAGGCAGAGACAGGCAGATGGCTGAGTCGAAGGCCAACCTGGTCTACA	1850
Mouse-BIC_Mm_Celera	GGGAGGCAGAGACAGGCAGATGGCTGAGTCGAAGGCCAACCTGGTCTACA	1850

Mouse-BIC_GRCm38	GAGTGAGCTCCAGGACAGCCTTAGCTACACAGAAAAATGCCTTATCAAAA	1900
Mouse-BIC_Mm_Celera	GAGTGAGCTCCAGGACAGCCTTAGCTACACAGAAAAATGCCTTATCAAAA	1900

Mouse-BIC_GRCm38	AATTAAGAAAAATAAGATGAAGTATTAAAAAGTGACATGACAAATCATTCC	1950
Mouse-BIC_Mm_Celera	AATTAAGAAAAATAAGATGAAGTATTAAAAAGTGACATGACAAATCATTCC	1950

Mouse-BIC_GRCm38	TGAGGGCTACCTATATATTTCTCACACGGTATAAAATATTTAATTTAATTA	2000
Mouse-BIC_Mm_Celera	TGAGGGCTACCTATATATTTCTCACACGGTATAAAATATTTAATTTAATTA	2000

Supplemental File3

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Mouse-BIC_GRCm38      ATATTTAATTTCAAATATTCACATTTGAAATGAAACCCAAATCTGGGTTC 2050
Mouse-BIC_Mm_Celera   ATATTTAATTTCAAATATTCACATTTGAAATGAAACCCAAATCTGGGTTC 2050
*****

Mouse-BIC_GRCm38      AAGCTTACTGCTTTAGCTGCACAGTAAAGCTGTGTAGTAAGGAGACCCAC 2100
Mouse-BIC_Mm_Celera   AAGCTTACTGCTTTAGCTGCACAGTAAAGCTGTGTAGTAAGGAGACCCAC 2100
*****

Mouse-BIC_GRCm38      GTTTCCTACGCATTTCTTCATGAATGCGGATGAACTTTACAAGGTTGGT 2150
Mouse-BIC_Mm_Celera   GTTTCCTACGCATTTCTTCATGAATGCGGATGAACTTTACAAGGTTGGT 2150
*****

Mouse-BIC_GRCm38      GTGCAGCTCACTGGAGATGAACAACCTTTTGTAAAGGTAATAAAAATCCCAC 2200
Mouse-BIC_Mm_Celera   GTGCAGCTCACTGGAGATGAACAACCTTTTGTAAAGGTAATAAAAATCCCAC 2200
*****

Mouse-BIC_GRCm38      AGTGATGTCTTAAA 2214
Mouse-BIC_Mm_Celera   AGTGATGTCTTAAA 2214
*****
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Supplemental File4

Mouse *Bic* gene (reference assembly) aligned against the rat alternate genome.

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Mouse-BIC_GRCm38      ACTTTC-CTCATGAAACCAGCTCATCTGAGAAAAACAGCAAAGTTTAAAAAAGAAATACTA 59
Rn_Celera             ACTGTAACTCATGAAACCAACTCATCTGAGAAAAACAGCAAAGTTTAAAAAA-AAATACTA 59
                      *** * *****
Mouse-BIC_GRCm38      TCAGTAAGTATGATATATTTTCCTTGGTTTGGAAATTTCCAAGCCACGATATTCCTGCCCTG 119
Rn_Celera             TCAGTAAGTATGATATATTTTCCTTGGTTTGGAAATTTCCAAGCCACGATATTCCTGCCCTG 119
                      *****
Mouse-BIC_GRCm38      TCAAAATATATTCACCTGGGGAATTTTAACTTGATGCATTTCTTTTGAACCTTAATCACAT 179
Rn_Celera             TCAAAATATATTCACCTGGGGAATTTTAACTTGATGCATTTCTTTTGAACCTTAATCACAT 179
                      *****
Mouse-BIC_GRCm38      TTCTACATCTAGCTGGTTTCATTATTAAGAAAAAGAAAGGTGGTTCCCTCTGGTCCTA 239
Rn_Celera             TTTTACATCTAGCAGGTTTCATTATTAATAAAAAGAAAGGTGGTTCCCTCTGGTCCTA 239
                      ** *****
Mouse-BIC_GRCm38      AAGGGAACCACAGACTTGGAGTGATGCTTGAACCTTCTAGGTTTCGCGTACAGTAACACTGAA 299
Rn_Celera             AAGGGAACCACAGACTTAAATGATGCTTGAACCTTCTAGGTTTCGCGTACAGTAACACCGAA 299
                      ***** * *****
Mouse-BIC_GRCm38      ACCAGAAACTTGTGGGAGAAAATGTCACCTTTATCTGAGAGAGTAAAAATCCAACCTAACAG 359
Rn_Celera             ACCAGAAACTTGTGGGAGAAAATGTCACCTTTATCTGAGAGAGTAAAAATCCAACCTAACAG 359
                      *****
Mouse-BIC_GRCm38      GAAACAGCAAATTCATCTTTTCTTTTCTTAAACCACTCT--GCTGGAGACAAGTCCCT 417
Rn_Celera             GAAGCAGCAAATTCATCTTT---CTTTTCTTAAACCACTCTTTGCTGGAGACAAGTCACT 416
                      *** ***** **
Mouse-BIC_GRCm38      TGAGTCAGAGCTCTTTAAGGCGCACTTCCTTTACATGGGTCAAACCTGAAGCCACCGGTTT 477
Rn_Celera             TGAGTCAGTGCTCTTTAAGGCACACTTCCTGCACATGGGTCAAACCGAAGCCACTGGTTT 476
                      *****
Mouse-BIC_GRCm38      GTGAGTCCCCAAGGAATCACTGGAGGACAACAGGAGCATTTTCAGATACCTTTCAGGGC 537
Rn_Celera             GTGCGTCCCCAAAAGGAATCCCTGAAGGGCAAGGGGAACATTTTCAGAGACATTTTCAGGGC 536
                      *** ***** ** * * * * *
Mouse-BIC_GRCm38      AGACCTGCCCTGGCTGTACCCCTATCTTGAAGAAAAAAGAAAAACGAATAAGGTGAAAAAT 597
Rn_Celera             AGACCTGTACTGGCCATATCACGTCCTTGAA-AAAAAATAAATAAATAAGGTGAAAAGC 595
                      ***** * * * * *
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Supplemental File4

Mouse-BIC_GRCm38	<u>GAAGGCTGTATGCTGTTAATGCTAATTGTGATAGGGGTTTTGGCCTCTGACTGACTCCTA</u>	1156
Rn_Celera	<u>GAAGGCTGTATGCTGTTAATGCTAATTGTGATAGGGGTTTTGGCCTCTGACTGACTCCTA</u>	1241

Mouse-BIC_GRCm38	<u>CCTGTTAGCATTAAACAGGACACAAGGCCTGTTACTAGCACTCACATGGAACAAATGGCCA</u>	1216
Rn_Celera	<u>CCTGTTAGCATTAAACAGGATACAGTGCCTGTTACTAGCATTACCGTGAACAAATGGCCG</u>	1301
	***** ** ***** **** *****	
Mouse-BIC_GRCm38	<u>CCG---TGGGAGGATGACAAGTCCAAGAGTACCCTGCTGGATGAACGTAGATGTCAGAC</u>	1273
Rn_Celera	<u>CCGCCGTGGGAGGATGACAAGACCATGAGTCACTCTGCTGGATGAACGTAGAAGTCAGGC</u>	1361
	*** ***** ** ***** ***** *	
Mouse-BIC_GRCm38	<u>TCTATCATT---AATGTGCTAGTCATAACCTGGTTACTAGGATAGTCCACTGTAAGTGT</u>	1330
Rn_Celera	<u>TCTATCACTTCTTAATGTGCTCATCGTAACCTGGTTACTAGGATTTTCCACTGTGAGTGT</u>	1421
	***** ** ***** * ***** *****	
Mouse-BIC_GRCm38	<u>TACGATAAATGTCATTTAAAAGATAGATCAGCAGTATCCTAAACAACATCTCAACTTCAA</u>	1390
Rn_Celera	<u>CACAATAAATGTCATTTAAAAGATTTATCAGCAGTATCCGAAACAACATCACAACCTCAG</u>	1481
	** ***** ***** ***** *****	
Mouse-BIC_GRCm38	<u>GCCACATGTTTATTTTTTATCTTGAATGGAAAGTGAAACTTGTATCATTTTTATTTCAA</u>	1450
Rn_Celera	<u>GCCCAC--GTTTATTTTT-ATCTTGAATGGAAAATGAAACTTGTATCATTTTTATTTCAA</u>	1538
	***** ***** ***** ***** ***** **	
Mouse-BIC_GRCm38	<u>AATTATGTTTCATAACCATCTTCAATGATTCAACCAGAATACAAAATGAATGCACTA-AAA</u>	1509
Rn_Celera	<u>AATTATGTTTCATAACCATTTTTCAATGATTCAACCAGAATGCAAAAATGAATAAACTACAAA</u>	1598
	***** ***** ***** ***** ***** **	
Mouse-BIC_GRCm38	<u>AGGACATTTCT-ATATTTCTGTAGTTAAAATTCAGGACGGCCATTCTCGACTGACATCTA</u>	1568
Rn_Celera	<u>AGGACATTTCTGATATTTCTGTAGTTAAGATCAAGGACAGCCGTTCCCGACTGACATCTA</u>	1658
	***** ***** ***** ** ***** ** *****	
Mouse-BIC_GRCm38	<u>GGATTGCTGGAATACCTCTTGTAAGACTTGGAAATGGCATTTTTT--CCACATTACAAT</u>	1626
Rn_Celera	<u>GGATT-TCTGGAGCACCTCTTGGAAGACTGGAATGGCATTTTTTCTCCACGTTAC--T</u>	1715
	***** ***** ***** ***** ***** ***** ***** **	
Mouse-BIC_GRCm38	<u>GTATTAGTCAACTTTGATTTAAAATTTGTAACCTTTGTGTTTTAGTGTAAGGAAAAATTT</u>	1686
Rn_Celera	<u>TTATTAGTCAGCTTTGATATAAAAATTCGTAACCTTT-----AATTT</u>	1756
	***** ***** ***** ***** ***** *****	

