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<110> OXFORD BIODYNAMICS LIMITED

<120> CHROMOSOME DETECTION

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<140> PCT/GB2017/051273

<141> 2017-05-08

<150> GB 16 08000.4

<151> 2016-05-06

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<170> PatentIn version 3.5

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 <210> 75
 <211> 800
 <212> DNA
 <213> Homo sapiens;

 <400> 75
 taaagaagtt tcacattcat atgccaactc agattgatgg gcagcaactg gataatccgc 60
 tgtgcagaaa gttaaataca ggttctgtgc aaagaagtgt ctagattcat agtgccagac 120
 atctgccctg ggccacatgc ttaccgtccc atggatggat ggaacttggga atcagaagac 180
 ccaagtttga gtcctggctc tactactttt gtgattttgg tcatttaacc tctttgagcc 240
 ttcttatggc atagtagtta taatcaagat aatataagt aatgtgcttt gtaaaccatg 300
 aagtgttggc cacacagatg atagctactg tcttatattt gtcaaacctc agctgaggac 360
 caggttgaca ggatggagga agaggaggaa ttcaagactc gaactaaaca aaaaggagat 420
 gatcctgggt gggcttgact taatcaagt aaagccttaa aagcaagagt ctcctgctag 480
 tctaggaaaa gcaaacagcc ctgctatgaa tggcctatag aaaggggcag cctctaggag 540
 catgggcctc agtcatatgc ccacaggagaa ctgaatattg ccagcaacca tgtgagcatg 600

gaagaggact ctaagcctct gatgagacca cagccctggc caatgctttg attgtggctc	660
tgtgaggcct tgaacaaagg accaagtata gctatgccag gacttctgaa ccacgggaat	720
ggtgagataa taaatgtttg gtgtttttaag ccactaagtt tgtgttaatt ttttatgccg	780
caatagaaag cgaatactac	800

<210> 76
 <211> 800
 <212> DNA
 <213> Homo sapiens;

<400> 76	
aggtaagtta aagaccaaga actggcattg gtcttagtat catgggaccc ttttgagtag	60
tttcagtgga gtggtggagg gtgaaagtga aagcttaatt ggagtgggtt caagaatgca	120
ggaataggag gagagaaatt ggagatagca atatagaaat ctcttaaaga gttcgtctga	180
aagtccagga gagaggggtg aagataagtg aagtgattgt tggacgaaga tgtgggggtg	240
agagttgttt ttttcccatc ccaagatggg agacctatth gtatgctgat ggaatgagta	300
gcatgaaact taggagagag ggaaaaaatt gaatcagaag agagggaaca gattgcctga	360
ataatgacct ggaggaggcc agagaaaaga gaatgtgac gatgacctta atgtcagtgt	420
cactgactct gacaaggagg aaaggacagc gatgagccag gctgaccccc gccaccccat	480
tcccatagcc ccactttctt ctctcttctt gttcagaaat gtttcacttt gcctcatcta	540
gcccccttgg ccagtaggtc acatctggga gcttctgggg gtgccacatg tctgcctcaa	600
tctgggctgt ttcctcccct ccaagatatt tcaactgtctc tgggctgggc gccaggactc	660
ctgggtttcc ctgcctgtgg tgcagggtc ccctgcaggg ctccagagag tcgcttagct	720
ggtttccttc ctctttgtg gggagggcct tcccctaggg ctgggaggtg tcaggaatcc	780
caggtgggac aggggtgggg	800

<210> 77
 <211> 800
 <212> DNA
 <213> Homo sapiens;

<400> 77

ttcaattgct atataaaaaa tgtaaagtct gtttactgcc ttaaacccttc tgggtgtat	60
ttatataaag taacaccctt aattctaact tggccaacag gtaggatggt attattatta	120
tcttcattgt acagataagg aaactgaggc tcagattgac tagatcaaac aggagttttc	180
tggaaaacct aggacacaag cctaaatctt tgaactcaaa tactgctcta cactgaatta	240
cagttatata ctgatttctg ttgtaaattc ttagagaaga cagacataga aattagtaac	300
ttgagtcagt agcggctttg ttcaaacaca ggcacatgca tatttttatgg tatatgttta	360
tatctgtgta atactcatca taaatgtcag atttataatc gagatcacag tgagctgaga	420
ttgcaccact gcactccagc ctgggcagcg gagtgaagacc ttttctcaaa aaaaaaaaaa	480
aaaaaaggca aaaaattaaa ttattagtat ggtaaagttt cgtttggact taatatgaaa	540
ctcatttcta gaaatgatga tcatttgcac agggcttaac ttcctttgct aagaaaatag	600
agtagtatac taggagactt ccagagctgc atagagcttc agggatcatct accaagacag	660
acaatttgtt gtcacatca gtgttaaact ctaaattatt aagtgcattat gtgccagata	720
ctgaagttaa tatacacttt ctctaacttt taataattct agaaaggatg gtgtttgatc	780
cattttcaag ataagaaaac	800

<210> 78
 <211> 800
 <212> DNA
 <213> Homo sapiens;

<400> 78	
atgaggtttt tttccagcct tcctaagggc ctcaaagtca tatccagcag acttgcaggg	60
ttctcagggtg aaagcaaatt ggagaaaattt ttaaaatgta attttggttt ttactccaac	120
tactttcaac atggatttgt aaaagactgc taggatcatt aaaatcagca ttgaagctat	180
gttgagcaag atggatagct gcactagaaa agctgtaaca agagtcattg tgaatgaaag	240
gaaaattttg ctctagattt gttggtagcc aaggcacaaa aattggaagc ataatgagtt	300
acagactcat gtctgataat atgaaagaac actaatttaa agaaaaaatc ttttctgtct	360
gaaattttat aatttagagg aactctatat aaacaacatc gaaactttgc ttcatgcaca	420
aaatttaaaa tattacataa aattaccttc aggctttgtg tataagatat atataaaaca	480

taaataaaatt ttgtgtttac acttgggttc catcctgaat atatctcatg atgtttatgc	540
aaatattcca aaatctgaaa aaatctgaaa ttcaaaacac ttccgggtccc aagcattttg	600
aataagggat actcaaccta tagctgcatt aattgaatta agacaaccac ataatctacc	660
tgtaaat tttt ctctggagcc ttttcttctg agccctccac gctcttctaa ttgatactgc	720
ttgctctact aagcctgttg aattactgta gtcctgggac ttctctttgc tcccctttcc	780
tggcttctat atctccctct	800

<210> 79
 <211> 264
 <212> DNA
 <213> Homo sapiens;

<400> 79	
ggggagtgga tgggataagg tggaatgttg ggtgaactaa aaggccttta aggcccctct	60
gaaatccagc atcgaagagg gaaactgcat cacagttgat ggaagtctgt tggcctctta	120
acaaagctaa tgcttgccct tctggcttag cttacataag aaccacaagg aatctttgtt	180
gaattgtttc tttcagatca tcgggacaac tctccttttg atggacctgg aggaaatctt	240
gctcatgctt ttcaaccagg ccca	264

<210> 80
 <211> 22
 <212> DNA
 <213> Homo sapiens;

<400> 80	
ggggagtgga tgggataagg tg	22

<210> 81
 <211> 20
 <212> DNA
 <213> Homo sapiens;

<400> 81	
tgggcctggg tgaaaagcat	20

<210> 82

<211> 29
 <212> DNA
 <213> Homo sapiens;

 <400> 82
 atccagcatc gaagagggaa actgcatca 29

 <210> 83
 <211> 60
 <212> DNA
 <213> Homo sapiens;

 <400> 83
 ttggagggaa aagtaattac gttcaacttc gactgtattc tacaaagtgc tgggattaca 60

 <210> 84
 <211> 60
 <212> DNA
 <213> Homo sapiens;

 <400> 84
 ggaggaggcc agagaaaaga gaatgtgac gatttctaaa atactgtgtg tgtgtatgta 60

 <210> 85
 <211> 60
 <212> DNA
 <213> Homo sapiens;

 <400> 85
 ggatggagga agaggaggaa ttcaagactc gaactaaaca aaaaggagat gacctgggt 60

 <210> 86
 <211> 60
 <212> DNA
 <213> Homo sapiens;

 <400> 86
 aggatctcat gatgctttga atactttctc gataccttat tataaaatca gctttgtgtt 60

 <210> 87
 <211> 60
 <212> DNA
 <213> Homo sapiens;

 <400> 87

agctcaaatt cttttactaa ttgttacatc gaaagttcaa aattaaattt taaacgtttt 60

<210> 88

<211> 60

<212> DNA

<213> Homo sapiens;

<400> 88

aatttagagg aactctatat aaacaacatc gaaactttgc ttcatgcaca aaatttaaaa 60

<210> 89

<211> 60

<212> DNA

<213> Homo sapiens;

<400> 89

cagaaatgca cgcacaggca caacagcatc gaaaccgggt ctttgagggc tcagtttttg 60

<210> 90

<211> 60

<212> DNA

<213> Homo sapiens;

<400> 90

cctacatata catggaatat tcctggatc gaaatatattt aggtaatcat tatttgtcta 60

<210> 91

<211> 22

<212> DNA

<213> Homo sapiens;

<400> 91

tccagagggt atggaatttg ag 22

<210> 92

<211> 19

<212> DNA

<213> Homo sapiens;

<400> 92

aagaaacaga ctgggcttg 19

<210> 93

<211> 21

<212> DNA	
<213> Homo sapiens;	
<400> 93	
gcatgaaact taggagagag g	21
<210> 94	
<211> 20	
<212> DNA	
<213> Homo sapiens;	
<400> 94	
ttgccaccat gtgactatac	20
<210> 95	
<211> 22	
<212> DNA	
<213> Homo sapiens;	
<400> 95	
gtgctttgta aaccatgaag tg	22
<210> 96	
<211> 19	
<212> DNA	
<213> Homo sapiens;	
<400> 96	
tcgtgggcat atgactgag	19
<210> 97	
<211> 20	
<212> DNA	
<213> Homo sapiens;	
<400> 97	
accctccttc actcacatag	20
<210> 98	
<211> 23	
<212> DNA	
<213> Homo sapiens;	
<400> 98	
gcacctaadc tacctaacad cac	23

<210> 99
 <211> 19
 <212> DNA
 <213> Homo sapiens;

 <400> 99
 ggcatctgctt tgccttatc 19

<210> 100
 <211> 20
 <212> DNA
 <213> Homo sapiens;

 <400> 100
 caacttcctt ggggtgtagag 20

<210> 101
 <211> 20
 <212> DNA
 <213> Homo sapiens;

 <400> 101
 tgttgagcaa gatggatagc 20

<210> 102
 <211> 21
 <212> DNA
 <213> Homo sapiens;

 <400> 102
 atattcagga tggaacccaa g 21

<210> 103
 <211> 22
 <212> DNA
 <213> Homo sapiens;

 <400> 103
 ggagtgtaga tcgttggtaa tg 22

<210> 104
 <211> 22
 <212> DNA

<213> Homo sapiens;

 <400> 104
 gcaaataaaag actgctgggtt tc 22

 <210> 105
 <211> 22
 <212> DNA
 <213> Homo sapiens;

 <400> 105
 aggacccatc acctacatat ac 22

 <210> 106
 <211> 20
 <212> DNA
 <213> Homo sapiens;

 <400> 106
 agccaagttt atgccaagag 20

 <210> 107
 <211> 60
 <212> DNA
 <213> Homo sapiens;

 <400> 107
 ttggagggaa aagtaattac gttcaacttc gactgtattc tacaaagtgc tgggattaca 60

 <210> 108
 <211> 60
 <212> DNA
 <213> Homo sapiens;

 <400> 108
 ggaggaggcc agagaaaaga gaatgtgatc gatttctaaa atactgtgtg tgtgtatgta 60

 <210> 109
 <211> 60
 <212> DNA
 <213> Homo sapiens;

 <400> 109
 ggaggaggcc agagaaaaga gaatgtgatc gatgacctta atgtcagtgt cactgactct 60

<210> 110
 <211> 60
 <212> DNA
 <213> Homo sapiens;

 <400> 110
 cagaaatgca cgcacaggca caacagcatc gaaaccgggt ctttggaggc tcagtttttg 60

<210> 111
 <211> 60
 <212> DNA
 <213> Homo sapiens;

 <400> 111
 ccaaagacag ccaaggaaaa actaaagatc gaaagttttt attacttcca aattagtaaa 60

<210> 112
 <211> 60
 <212> DNA
 <213> Homo sapiens;

 <400> 112
 aggatctcat gatgctttga atactttctc gataccttat tataaaatca gctttgtgtt 60

<210> 113
 <211> 60
 <212> DNA
 <213> Homo sapiens;

 <400> 113
 cataattttt ttttgtagtt tattcacctc gactagatth taatttttta tttttattta 60

<210> 114
 <211> 60
 <212> DNA
 <213> Homo sapiens;

 <400> 114
 cctacatata catggaatat tcctggatc gaaatatttt aggtaatcat tatttgctta 60

<210> 115
 <211> 60
 <212> DNA
 <213> Homo sapiens;

<400> 115
atttctttct tcttcccatt ttctaaaatc gattttttaa tttaaaggta aagttaaggc 60

<210> 116
<211> 60
<212> DNA
<213> Homo sapiens;

<400> 116
atactcatca taaatgtcag atttataatc gagatcacag tgagctgaga ttgcaccact 60

<210> 117
<211> 60
<212> DNA
<213> Homo sapiens;

<400> 117
agctcaaatt cttttactaa ttgttacatc gaaagttcaa aattaaattt taaacgtttt 60

<210> 118
<211> 60
<212> DNA
<213> Homo sapiens;

<400> 118
ggatggagga agaggaggaa ttcaagactc gaactaaaca aaaaggagat gatcctgggt 60

<210> 119
<211> 60
<212> DNA
<213> Homo sapiens;

<400> 119
aatttagagg aactctatat aaacaacatc gaaactttgc ttcatgcaca aaatttaaaa 60