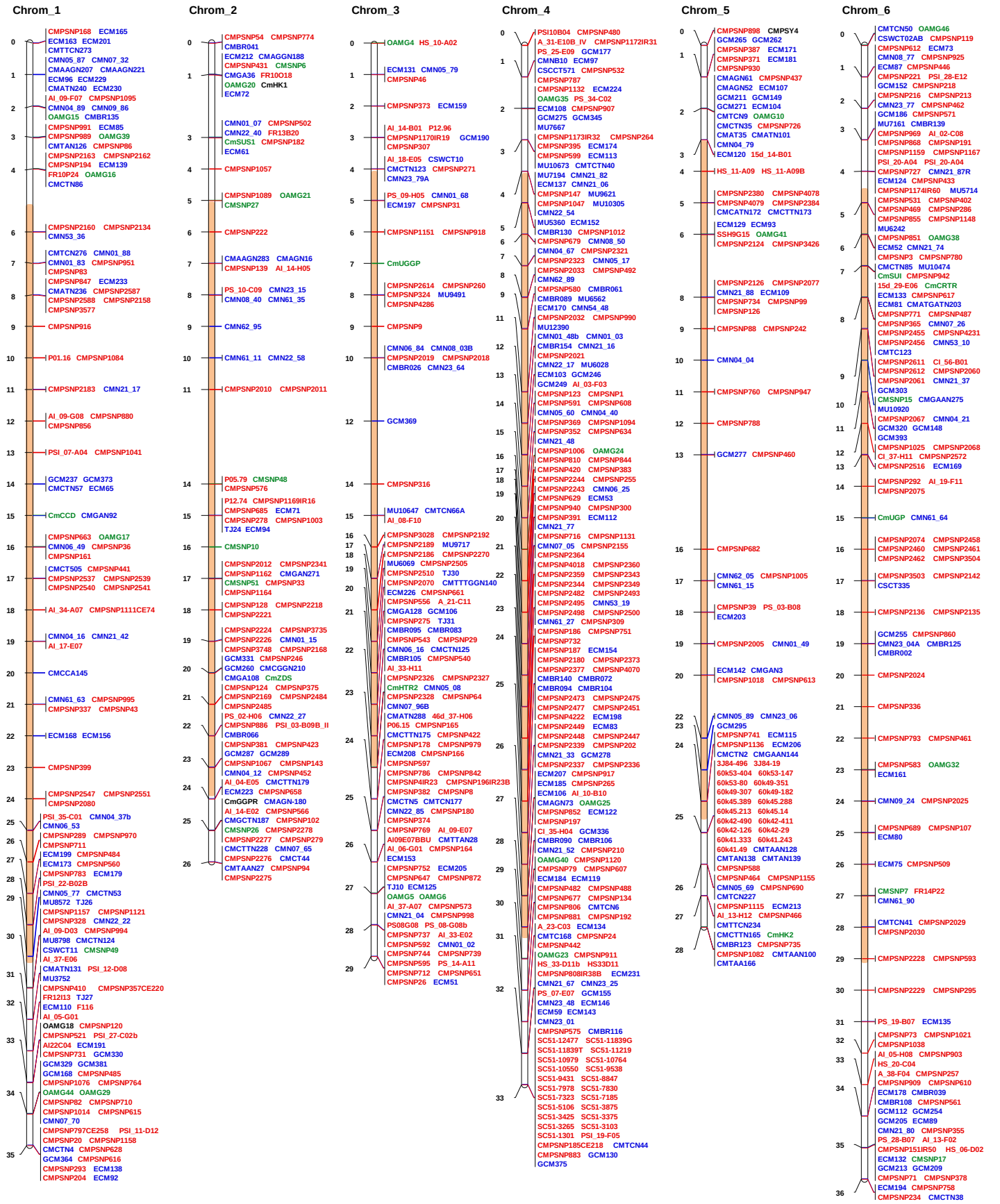
Chrom_1
0 CMPSNP168 ECM165 ECM163 ECM201 CMTTCN273
1 CMN05_87 CMN07_32 CMAAGN207 CMAAGN221 ECM96 ECM229 CMATN240 ECM230
2 AI_09-F07 CMPSNP1095 CMN04_89 CMN09_86 OAMG15 CMBR135
3 CMPSNP991 ECM85 CMPSNP989 OAMG39 CMTAN126 CMPSNP86
4 CMPSNP2163 CMPSNP2162 CMPSNP194 ECM139 FR10P24 OAMG16 CMCTN86
6 CMPSNP2160 CMPSNP2134 CMN53_36
7 CMTCN276 CMN01_88 CMN01_83 CMPSNP951 CMPSNP83
8 CMPSNP847 ECM233 CMATN236 CMPSNP2587 CMPSNP2588 CMPSNP2158 CMPSNP3577
9 CMPSNP916
10 P01.16 CMPSNP1084
11 CMPSNP2183 CMN21_17
12 AI_09-G08 CMPSNP880 CMPSNP856
13 PSI_07-A04 CMPSNP1041
14 GCM237 GCM373 CMCTN57 ECM65
15 CmCCD CMGAN92
16 CMPSNP663 OAMG17 CMN06_49 CMPSNP36 CMPSNP161
17 CMCT505 CMPSNP441 CMPSNP2537 CMPSNP2539 CMPSNP2540 CMPSNP2541
18 AI_34-A07 CMPSNP1111CE74
19 CMN04_16 CMN21_42 AI_17-E07
20 CMCCA145
21 CMN61_63 CMPSNP995 CMPSNP337 CMPSNP43
22 ECM168 ECM156
23 CMPSNP399
24 CMPSNP2547 CMPSNP2551 CMPSNP2080
25 PSI_35-C01 CMN04_37b CMN06_53
26 CMPSNP289 CMPSNP970 CMPSNP711
27 ECM199 CMPSNP484 ECM173 CMPSNP560
28 CMPSNP783 ECM179 PSI_22-B02B
29 CMN05_77 CMCTN53 MU8572 TJ26
CMPSNP1157 CMPSNP1121 CMPSNP328 CMN22_22
30 AI_09-D03 CMPSNP994 MU8798 CMCTN124 CSWCT11 CMSNP49
AI_37-E06
31 CMATN131 PSI_12-D08 MU3752
CMPSNP410 CMPSNP357CE220
32 FR12I13 TJ27 ECM110 F116
AI_05-G01
33 OAMG18 CMPSNP120 CMPSNP521 PSI_27-C02b AI22C04 ECM191 CMPSNP731 GCM330 GCM329 GCM381 GCM168 CMPSNP485 CMPSNP1076 CMPSNP764
34 OAMG44 OAMG29 CMPSNP82 CMPSNP710 CMPSNP1014 CMPSNP615 CMN07_70
CMPSNP797CE258 PSI_11-D12
35 CMPSNP20 CMPSNP1158 CMCTN4 CMPSNP628 GCM364 CMPSNP616 CMPSNP293 ECM138 CMPSNP204 ECM92
Chrom_2
0 CMPSNP54 CMPSNP774 CMBR041 ECM212 CMAGGN188
1 CMPSNP431 CMSNP6 CMGA36 FR10O18 OAMG20 CmHK1 ECM72
3 CMN01_07 CMPSNP502 CMN22_40 FR13B20 CmSUS1 CMPSNP182 ECM61
4 CMPSNP1057
5 CMPSNP1089 OAMG21 CMSNP27
6 CMPSNP222
7 CMAAGN283 CMAGN16 CMPSNP139 AI_14-H05
8 PS_10-C09 CMN23_15 CMN08_40 CMN61_35
9 CMN62_95
10 CMN61_11 CMN22_58
11 CMPSNP2010 CMPSNP2011
14 P05.79 CMSNP48 CMPSNP576
15 P12.74 CMPSNP1169IR16 CMPSNP685 ECM71 CMPSNP278 CMPSNP1003 TJ24 ECM94
16 CMSNP10
17 CMPSNP2012 CMPSNP2341 CMPSNP1162 CMGAN271 CMSNP51 CMPSNP33 CMPSNP1164
18 CMPSNP128 CMPSNP2218 CMPSNP2221
19 CMPSNP2224 CMPSNP3735 CMPSNP2226 CMN01_15 CMPSNP3748 CMPSNP2168
20 GCM331 CMPSNP246 GCM260 CMCGGN210 CMGA108 CmZDS
21 CMPSNP124 CMPSNP375 CMPSNP2169 CMPSNP2484 CMPSNP2485
22 PS_02-H06 CMN22_27 CMPSNP886 PSI_03-B09B_II CMBR066
23 CMPSNP381 CMPSNP423 GCM287 GCM289 CMPSNP1067 CMPSNP143
24 CMN04_12 CMPSNP452 AI_04-E05 CMCTTN179 ECM223 CMPSNP658
25 CmGGPR CMAGN-180 AI_14-E02 CMPSNP566 CMGCTN187 CMPSNP102
26 CMSNP26 CMPSNP2278 CMPSNP2277 CMPSNP279 CMCTTN228 CMN07_65 CMPSNP2276 CMCT44 CMTAAN27 CMPSNP94 CMPSNP2275
Chrom_3
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1 ECM131 CMN05_79 CMPSNP46
2 CMPSNP373 ECM159
3 AI_14-B01 P12.96 CMPSNP1170IR19 GCM190 CMPSNP307
4 AI_18-E05 CSWCT10 CMCTN123 CMPSNP271 CMN23_79A
5 PS_09-H05 CMN01_68 ECM197 CMPSNP31
6 CMPSNP1151 CMPSNP918
7 CmUGGP
8 CMPSNP2614 CMPSNP260 CMPSNP324 MU9491 CMPSNP4286
9 CMPSNP9
10 CMN06_84 CMN08_03B CMPSNP2019 CMPSNP2018 CMBR026 CMN23_64
12 GCM369
14 CMPSNP316
15 MU10647 CMTCN66A AI_08-F10
16 CMPSNP3028 CMPSNP2192
17 CMPSNP2189 MU9717
18 CMPSNP2186 CMPSNP2270
19 MU6069 CMPSNP2505 CMPSNP2510 TJ30
20 CMPSNP2070 CMTTTGGN140 ECM226 CMPSNP661
21 CMPSNP556 A_21-C11 CMGA128 GCM106 CMPSNP275 TJ31
22 CMBR095 CMBR083 CMPSNP543 CMPSNP29 CMN06_16 CMCTN125 CMBR105 CMPSNP540
AI_33-H11
23 CMPSNP2326 CMPSNP2327 CmHTR2 CMN05_08 CMPSNP2328 CMPSNP64 CMN07_96B
24 CMATN288 46d_37-H06 P06.15 CMPSNP165 CMCTTN175 CMPSNP422 CMPSNP178 CMPSNP979 ECM208 CMPSNP166 CMPSNP597
25 CMPSNP786 CMPSNP842 CMPSNP4IR23 CMPSNP196IR23B CMPSNP382 CMPSNP8 CMCTN5 CMTCN177 CMN22_85 CMPSNP180 CMPSNP374
26 CMPSNP769 AI_09-E07 AI09E07BBU CMTTAN28 AI_06-G01 CMPSNP164 ECM153
27 CMPSNP752 ECM205 CMPSNP647 CMPSNP872 TJ10 ECM125
OAMG5 OAMG6
28 AI_37-A07 CMPSNP573 CMN21_04 CMPSNP998 PS08G08 PS_08-G08b CMPSNP737 AI_33-E02 CMPSNP592 CMN01_02
29 CMPSNP744 CMPSNP739 CMPSNP595 PS_14-A11 CMPSNP712 CMPSNP651 CMPSNP26 ECM51
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1 CMNB10 ECM97 CSCCT571 CMPSNP532 CMPSNP787 CMPSNP1132 ECM224
OAMG35 PS_34-C02
2 ECM108 CMPSNP907 GCM275 GCM345 MU7667
3 CMPSNP1173IR32 CMPSNP264 CMPSNP395 ECM174 CMPSNP599 ECM113 MU10673 CMTCTN40
4 MU7194 CMN21_82 ECM137 CMN21_06 CMPSNP147 MU9621 CMPSNP1047 MU10305 CMN22_54
5 MU5360 ECM152 CMBR130 CMPSNP1012
6 CMPSNP679 CMN08_50
7 CMN04_67 CMPSNP2321 CMPSNP2323 CMN05_17
8 CMPSNP2033 CMPSNP492 CMN62_89
9 CMPSNP580 CMBR061 CMBR089 MU6562 ECM170 CMN54_48
11 CMPSNP2032 CMPSNP990 MU12390
12 CMN01_48b CMN01_03 CMBR154 CMN21_16 CMPSNP2021
13 CMN22_17 MU6028 ECM103 GCM246 GCM249 AI_03-F03
14 CMPSNP123 CMPSNP1 CMPSNP591 CMPSNP608
15 CMN05_60 CMN04_40 CMPSNP369 CMPSNP1094 CMPSNP352 CMPSNP634
16 CMN21_48 CMPSNP1006 OAMG24 CMPSNP810 CMPSNP844
17 CMPSNP420 CMPSNP383
18 CMPSNP2244 CMPSNP255
19 CMPSNP2243 CMN06_25 CMPSNP629 ECM53
20 CMPSNP940 CMPSNP300 CMPSNP391 ECM112 CMN21_77
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28 CMAGN73 OAMG25 CMPSNP852 ECM122 CMPSNP197
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Chrom_5
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1 CMPSNP387 ECM171 CMPSNP371 ECM181 CMPSNP930
2 CMAGN61 CMPSNP437 CMAGN52 ECM107 GCM211 GCM149 GCM271 ECM104 CMTCN9 OAMG10 CMCTN35 CMPSNP726 CMAT35 CMATN101 CMN04_79
3 ECM120 15d_14-B01
4 HS_11-A09 HS_11-A09B
5 CMPSNP2380 CMPSNP4078 CMPSNP4079 CMPSNP2384 CMCATN172 CMCTTN173
6 ECM129 ECM93 SSH9G15 OAMG41 CMPSNP2124 CMPSNP3426
8 CMPSNP2126 CMPSNP2077 CMN21_88 ECM109 CMPSNP734 CMPSNP99 CMPSNP126
9 CMPSNP88 CMPSNP242
10 CMN04_04
11 CMPSNP760 CMPSNP947
12 CMPSNP788
13 GCM277 CMPSNP460
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19 CMPSNP2005 CMN01_49
20 ECM142 CMGAN3 CMPSNP1018 CMPSNP613
22 CMN05_89 CMN23_06
23 GCM295
24 CMPSNP741 ECM115 CMPSNP1136 ECM206 CMCTN2 CMGAAN144 3J84-496 3J84-19 60k53-404 60k53-147 60k53-80 60k49-351 60k49-307 60k49-182 60k45.389 60k45.288
25 60k45.213 60k45.14 60k42-490 60k42-411 60k42-126 60k42-29 60k41.333 60k41.243 60k41.49 CMTAAN128 CMTAN138 CMTAN139 CMPSNP588
26 CMPSNP464 CMPSNP1155 CMN05_69 CMPSNP690 CMTCN227
27 CMPSNP1115 ECM213 AI_13-H12 CMPSNP466 CMTTCN234
28 CMCTTN165 CmHK2 CMBR123 CMPSNP735 CMPSNP1082 CMTAAN100 CMTAA166
Chrom_6
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3 MU7161 CMBR139 CMPSNP969 AI_02-C08 CMPSNP868 CMPSNP191 CMPSNP1159 CMPSNP1167 PSI_20-A04 PSI_20-A04
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5 CMPSNP531 CMPSNP402 CMPSNP469 CMPSNP286 CMPSNP855 CMPSNP1148 MU6242
6 CMPSNP851 OAMG38 ECM52 CMN21_74 CMPSNP3 CMPSNP780
7 CMCTN85 MU10474 CmSUI CMPSNP942 15d_29-E06 CmCRTR ECM133 CMPSNP617 ECM81 CMATGATN203
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10 CMSNP15 CMGAAN275 MU10920
11 CMPSNP2067 CMN04_21 GCM320 GCM148 GCM393
12 CMPSNP1025 CMPSNP2068 CI_37-H11 CMPSNP2572
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19 GCM255 CMPSNP860 CMN23_04A CMBR125 CMBR002
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23 CMPSNP583 OAMG32 ECM161
24 CMN09_24 CMPSNP2025
25 CMPSNP689 CMPSNP107 ECM80
26 ECM75 CMPSNP509
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30 CMPSNP2229 CMPSNP295
31 PS_19-B07 ECM135
32 CMPSNP73 CMPSNP1021 CMPSNP1038
33 AI_05-H08 CMPSNP903 HS_20-C04
34 A_38-F04 CMPSNP257 CMPSNP909 CMPSNP610 ECM178 CMBR039 CMBR108 CMPSNP561 GCM112 GCM254 GCM205 ECM89 CMN21_80 CMPSNP355
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Chrom_7
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1 CMSNP50 AI_05-F11 CMN23_42 CMPSNP301 CMCTTN174 CMPSNP249 CMPSNP975 AI_27-F07
2 CMAACN216 AI_12-B08 CMPSNP150CE116 MU5009 CMPSNP879 CMAGN75 CMPSNP305 P06.69B
3 MU9010 CMPSNP133 CMPSNP765 ECM209
4 GCM344 GCM386 CMPSNP579
5 AI_25-C11B_VII OAMG7 CMPSNP2237 CMPSNP262 CMPSNP2236 ECM227 CMPSNP2606 CMPSNP2608 CMPSNP2291
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11 CMPSNP3020 CMPSNP171 CMPSNP2287 CMPSNP2284
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13 CMPSNP1010 CMPSNP2038 CMPSNP1009 OAMG8
15 CMN04_06 CMPSNP2039 CMTAAN87
16 CMPSNP2040 CMPSNP2041
17 CMPSNP2179 MU7520 OAMG33 HS_04-F11 HS04F11 CMN21_34
18 MU11013 MU7997 CMPSNP2177 CMPSNP2567 CMPSNP2569 CMPSNP2570
19 ECM84 CMPSNP2028 CMN04_01 CMN06_60B CMN61_88 GCM238
20 CMPSNP899 CMPSNP1007 CMPSNP41 TJ28 CMAGN141
21 CMPSNP203 CMPSNP564 P62 CMPSNP287 CMPSNP559 CMATCN184 CMBR012 CMBR027 CMBR092
22 CMBR053 AI_03-G06 CMPSNP188 CmUGE3 ECM77 CMTCN30 CMTAN133 CMCAN90 CMPSNP42 CMPSNP344 CMBR052 CMBR058 CMBR084 CMBR021 CMPSNP454 CMGAN21 GCM388 ECM151 CMPSNP996
23 CMPSNP56 A_06-A03 MU4966 MU6710 CI_08-C08B CI_08-C08 AI_08-H11
24 GCM305 CMSNP61 CMPSNP1039 CMSNP22 ECM204
25 CMPSNP978 CMPSNP76 CMN22_23 CMPSNP465 ECM167 CMGA15 PSI_37-G01
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2 ECM88 PS_18-F05 15cl_01-B03 CMCTT144 ECM100
3 PS_28-E01 MU8591 CMPSNP766 ECM217 CMBR007 CMBR064 CMBR098 CMBR109 CMBR024 AI_37-B10 MU3701 ECM111 A_30-G06B_VIII ECM74 MU4758 CmHTR1 ECM128 ECM98
4 PSI_23-A11 CMPSNP1037 CMAGN47 CMCTN82 CMBR112 CMPSNP718 CMPSNP577 CMPSNP1112 CMPSNP649 CMPSNP664 CMPSNP297 CMBR145 GCM228 GCM296 CMPSNP535 CMPSNP97 CMPSNP770 TJ2 CI_33-B09 CMTAN199 CMSNP52 CMPSNP44 CSTA050 OAMG1 CMPSNP379 OAMG34 CMPSNP853 CMPSNP455 CMATN272 CMATTTN262 MU12203 ECM221 MU7678 GCM223 CSWCT03AB GCM216 GCM218 CMPSNP843 CMTCCN157 CMPSNP62 AI_21-D08 CMCTN127 AI_21-G05B P01.8b CMPSNP470 CMPSNP894 CMN08_90A CMPSNP874 CMN01_34 CMPSNP873 CMN23_03 CMPSNP428 CMPSNP403 OAMG42 CMPSNP181 ECM200 CMPSNP1152 OAMG2 CMPSNP11 FR13O21 CMGAAN256 CMPSNP111 CMCTTN232 CMSNP41 CMPSNP510 CMAGGN186 CMCATN185 CMTCCN171 CMPSNP795 CMPSNP2167 CMN09_22 CMPSNP2166 CMTCN248 CMPSNP281 CMPSNP2165 CMACC146 CMPSNP2164 CMN22_44 CmBCYC CMN61_70B CMPSNP967 CMPSNP2042 CMPSNP2043 CMPSNP2053 CMSNP3 ECM90 CMPSNP2056 CMN01_86a CMCTN58 CMPSNP2436 CMPSNP2438 CMPSNP2441 CmNAG2 CMPSNP345 CMGAN25 F013 CMAGN46 CMPSNP688 CMSNP39 CMPSNP2371 CMPSNP2370 CMPSNP4029 CMPSNP2367 CMPSNP2366 CMPSNP2009 CMN07_46 CMPSNP2008 CMPSNP533 CMPSNP347 GCM242 CMBR042 CMN22_53
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25 CMCTTN181 CMN23_75 CMPSNP2216 CMPSNP2215 CMPSNP2210 ECM91
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30 HS_39-A03 CMCCTN226 GCM291 GCM214 GCM302 CMN53_44 CMN53_40 ECM176
31 CMN05_75 ECM157 CMSNP60 CMN21_25
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Chrom_9
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1 ECM186 CMPSNP719 CMPSNP761 P5.64 CMPSNP152 CMPSNP1127 A_08-H06 CMPSNP791
2 ECM160 CMTC47 CMN22_47 CMPSNP622 CMPSNP601 CMPSNP393
3 CMPSNP2081 CMN21_62
4 FR18J20 CMPSNP504 CMPSNP370 A_17-A08
5 CMN53_68A CMPSNP450 ECM177 CMPSNP1077 CMPSNP2231 CMPSNP2233 GCM230 GCM371 GCM188
6 GCM221 GCM301 GCM347
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9 CMPSNP320 CMPSNP390
10 ECM150 ECM202 CMPSNP17 AI_39-A12
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14 CMPSNP1150 CMPSNP2197 CmSUS2
15 CMPSNP2196 OAMG19 CMPSNP144 CMPSNP2195
16 ECM66 CMPSNP103
17 AI_17-B03 CMPSNP590 ECM166 CMATCN192
18 ECM235 ECM144 CMPSNP254
19 CmPGMc CMPSNP145 OAMG36 CMPSNP137 CmAIN2 ECM56
20 CMPSNP1035 CMN53_12B PSI_21-D01 CMPSNP458 CMTATTCN260
21 CMPSNP159 CMPSNP177 AI_21-E10 CmAIN1 CMPSNP999 CMTCN1 ECM141 CmUGE2
22 CMCTN7 CMCTTN166 CMPSNP490 CMPSNP306 CMCCTTTN217 ECM54 CMN01_35b
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Chrom_10
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1 OAMG45 CmNIN2 PS_33-E12 CMPSNP1117 CMPSNP172 CMPSNP921 CMPSNP239 CMPSNP238
2 CMAGN134 ECM78 CMPSNP528 CMPSNP16 ECM175 CMPSNP158 CMPSNP1053 CMCTN116 CMCTN19 CMPSNP888 CMN61_13 ECM82 ECM86 CMSNP35 CMPSNP65 CMN08_79 ECM196 CMGAAN233 PS_15-H02 CMAAAAGN178 GCM203 GCM251 GCM101 GCM392 GCM367
3 PS_40-E11 CMPSNP1176IR89 HS_23-E06 HS_23-E06B CMPSNP892 CMPSNP1178IR100 CMTAN284 CMN22_05 CMTCN67 CMPSNP183 CMBR055 MU7351 MU4512
4 MU5035 CMTCN214 MU6549 CMN04_09 CMGA172 CMTCAN193 ECM228 CMPSNP100 CMPSNP762 GCM153 CMTCN196
5 ECM102 CMPSNP671 CmAAG2 CMPSNP1055 GCM283 GCM231 GCM280 GCM273 ECM101 CMPSNP456 CMN07_57 CMPSNP2145
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7 CMPSNP2152
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18 ECM117
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Chrom_11
0 CMPSNP2130 CMPSNP496 CMPSNP2131 ECM214
1 CMTCN62 GCM396 GCM395 CMPSNP253 CMCT160a TJ33 CMN08_04
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8 CMSNP62 CMPSNP2175 CMPSNP2176 CMSNP1
9 CMPSNP2057 CMPSNP2058
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11 CMPSNP845
12 CMN23_43 CMPSNP864
13 CMPSNP2059 CMN04_10 CMN06_62 CMGAN12
14 CMPSNP2250 CMSNP46 FR12O13 CMPSNP118 CMPSNP376
15 CMPSNP476 CmSUT6
16 ECM62 CMN22_09 CMN53_28 CMPSNP353
17 CMPSNP40 A_05-A02 CMN62_74
18 MU9044 CMPSNP2023
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24 OAMG31
25 CMPSNP2238 CMPSNP2239 CMCTN135 CSWCT18AB CSWCT18CT CMPSNP1016 CMPSNP2240 CMPSNP2241 CMPSNP2463 CMPSNP2464 CMPSNP2465 CMPSNP2466
26 ECM215 CMPSNP2467 ECM70 CMPSNP1122 CMPSNP862 CMPSNP453 CMPSNP1079
27 CMN01_74 CMN01_55 PSI_41-B07 CMN04_35 CMN62_11 ECM68 PS_24-E03 CMPSNP30 CMPSNP728 CMPSNP334 CMPSNP889 CMPSNP831 CMBR093 CMBR049 GCM319 CMGAN51
28 CMBR082 CMBR071 ECM164 CMATN89 CMATN121 CMSNP36 OAMG48 MU5001 MU7242 CMCTTN205 MU10512 CMPSNP389 CMPSNP445 ECM148 CMTTCN88 CMPSNP1128 CMPSNP75
29 CMGA104 CMN05_13 PSI_35-H10 PSI_35-H10B MU3815 ECM192 MU3610 P6.79 MU12403-2 CMPSNP315 CMAAAGN148 CMPSNP934 CMPSNP884
30 ECM145 A_08-D10B CMPSNP475 CMPSNP474 OAMG12 CMPSNP122 CMNB02 CMPSNP47
31 ECM147 CMPSNP272 P02.75b CMN06_66 CMBR003 CMPSNP419
Chrom_12
0 A_18-A08 CMPSNP385 CMN09_76 CMPSNP14
1 CMPSNP538 CMBR099 CMN21_09
2 CMTCN34 CMPSNP832 CMPSNP923
3 PSI_12-D12 CMPSNP2417 CMPSNP2420 CMPSNP2421
4 CMPSNP523 CMBR034
5 CMPSNP310
6 CMPSNP348
7 CMN61_44 CMN62_08
8 CMN09_41 CMN22_45
9 CMAAGN255
13 CMPSNP2002 CMN21_55 CMPSNP2235 ECM67 CMPSNP193
14 OAMG14 CMPSNP1129CE92 AI_35-A08 CMPSNP211 CMPSNP2265 CMPSNP2264 CMPSNP829
15 OAMG13 GCM309 CMPSNP2261 CMPSNP2260 CMN21_93 CMPSNP2082
16 CMN01_01 ECM95 CMPSNP2083 CMN21_29F ECM105
17 GCM206 AI_09-G07 CMPSNP557
18 CMPSNP2084
19 CMPSNP747 CMN22_90 CMPSNP759
20 ECM118 ECM158 CMCCAN190 CMPSNP49 CMPSNP1086 CMPSNP285
21 MU4226 CMPSNP284 CmeIF4EB MU11417 ECM211 ECM225 MU6826 CMPSNP720
22 ECM140 MU6247 ECM64 CMN62_03 CMN01_38 HS_23-D06B CMPSNP1056 TJ29 CMBR111
23 CMPSNP219 MU7191 CMPSNP157 CMPSNP361 CMN04_66 CMBR150 CMPSNP1109
24 CSAT425A OAMG26 CI_57-E03 CMN07_54 CMN01_54 CMTCN14 CMPSNP537 CMPSNP513 CMPSNP775 CMPSNP551 CMPSNP5
25 CMPSNP507 OAMG27 CMPSNP714 CMGCAN278 CMPSNP60 CMBR097 CMBR040 CMBR051 CMBR077 GCM333 GCM376 GCM232 GCM374 GCM279 GCM357 GCM360 GCM310 ECM123
26 FR14F22 CMSNP33 CMN08_22 ECM218 CMN21_03 CMBR014 CMAGN32 CMAGN33 CMGAN24 P023 CMPSNP1087 CMPSNP779