

## Chromatin immunoprecipitation of the 4th chromosome at 10 kb resolution

	Sense	Antisense
200	5'-CCTCAAACCTATAATTCTGACCG-3'	5'-AGGCCTTAGCAAGACTTCTAAC-3'
210	5'-CCAACCCAAAGGAATGAAGAA-3'	5'-TACAGGCGGAGATGTAGGACG-3'
220	5'-GGCTGCCAATAGTACAAAC-3'	5'-ATTCTTCGCAGCAAATCTCAAA-3'
230	5'-GACTCAATGTTCCCTTGTGGT-3'	5'-CAATCCGATCAATCCGCTGTG-3'
240	5'-GCGACGATAATTCAAAACGG-3'	5'-CTGCGAAAGTCTGCTCCAGT-3'
250	5'-AACAACCTTGGTATTTGCGTCCG-3'	5'-GCAAAAATCTGTTAGACCCAAACCTTC-3'
260	5'-AAAGATCACGAAATTAATGACG-3'	5'-AAACTAGAATGGCGGAGGGAAG-3'
270	5'-GTGTCGTAAAACCGCTTCTTAGT-3'	5'-ATTTACCTGGAAGAGTTCATAA-3'
280	5'-CAAAGTTGAAAATGCAACAGAAC-3'	5'-AAGCAAATGACGAAAAGGATAGA-3'
290	5'-GAGTCGGCATTCTAGTCTCAA-3'	5'-ACGGAAGCTACGTCTACCCTAT-3'
300	5'-TTCGTCCTATTAACCTCGTTCC-3'	5'-CCAGTATTTAATGAATCCTTTAGTT-3'
310	5'-TGTATGATTTATCGGTTCTTGGC-3'	5'-AGCTTATTCGTGGTGTGTTGAG-3'
320	5'-CCTTTGCCCTTGTCTTTGTC-3'	5'-TTGATCATGGCTTGGTCTCC-3'
330	5'-GGACGCAATAGAACGGGTATA-3'	5'-GTACAAGGGCCTCTGGGAAT-3'
340	5'-GATTCAAACGGAACAGACGC-3'	5'-CCAAGTCACGGTCGCCAT-3'
350	5'-CACCAGGTCTGTTATGGGAAAT-3'	5'-TGGGTTAATGTTAGTGCATCAAAA-3'
360	5'-CTGAGTAATGGGTAGAGCAAAATG-3'	5'-CATGGCCGGATCAACTTAGAC-3'
370	5'-GGTATTCGTTGAAAAGTAGGCTT-3'	5'-TAACCGTTACTCGGATTATGGA-3'
380	5'-ATCTTGTGCGGATGCTTTGTTT-3'	5'-CCTTTCACGGTGCGTAGTC-3'
390	5'-GCTGTAAGAAGTACTGCTCACAGAA-3'	5'-CTTGCTAGTGCTAGAAGACGATTTT-3'
400	5'-GAAATAAGTGCGGGCTTACAGC-3'	5'-CAAAGACCATTAGGCGAGGAA-3'
410	5'-TTCGATTACCAGGTTCCCTT-3'	5'-GCACTCTACAACGCCATCC-3'
420	5'-CAACGGTGGTTTACGTTTGG-3'	5'-ACCTGTGGTGTTCGCTGAT-3'
430	5'-AAGTTCCCGACAGCCATTAC-3'	5'-CTGGTTGACAGGTTGCAGTCC-3'
440	5'-CACTGATGGTTTGGGGCTG-3'	5'-ACGGCATTATTGGGCTTTC-3'
450	5'-AAAACAGTCAAGGAACTTTACACA-3'	5'-TAGAGGCAAGGTAATCTTCAGC-3'
460	5'-CCTGTGACTCGCTGGATGTA-3'	5'-ATCCTATGGGCAACGAAACT-3'
470	5'-CAACATCCCGTCTATCTGTCC-3'	5'-TAGAACCTGTACGCTCAACCC-3'
480	5'-CTAGCCGAAAGCGTGGAAG-3'	5'-GCCGTGTTGCCTGTACCTT-3'
490	5'-GACATAGCCATGAGGGGATT-3'	5'-CGTCCTGCTGGTAGTGCTG-3'
500	5'-CCCCTGTGCCAGTGGTGTGA-3'	5'-TCTGTGGGTCGTTTGCCTTAT-3'
510	5'-CTACCCTCGTCACATACATCG-3'	5'-ACAAATCAAGAACGCCCAT-3'
520	5'-GATTTCTCCCATAACGGTC-3'	5'-CGGTGTCGGTGGATCCTAT-3'
530	5'-CTCCCGTGTATTGAGTTAGTGG-3'	5'-GTTTTCTTTCTGCGATACCCT-3'
540	5'-TATCATCTACTCCCTTCGACG-3'	5'-GCATGGCTTGGTTCATCAC-3'
550	5'-GACTCTTACTTCTGGTGGATCAGA-3'	5'-TGTTTTCAATAGGAGTTGGTGTCT-3'
560	5'-TGCTCAACTGATAGCCACCAC-3'	5'-TGTTTTCAAACCAACGGGAA-3'
570	5'-CCTGGACTTCGGATTATCTTTG-3'	5'-TGGGAAGCAGTCGCATTCT-3'
580	5'-TCGTGTTGAGGCACAAGAGTA-3'	5'-CAAATCGGACATTACGAGACC-3'
590	5'-CTAGTAGAGGAGGTAAGTCAAGCG-3'	5'-TCCAGACGAGGTCACATCACT-3'
600	5'-TAACCTCGTGCCTGTCTAAGCT-3'	5'-CCAAATTGTTGTGCCCTGAT-3'
610	5'-CGAGTTTCATAATGGCAGTTCTA-3'	5'-ACCTTCTTCTACGCCTTACTTG-3'
620	5'-CTATTGTTTGTGGGATGTGATA-3'	5'-GCTCTTCCAGCATTTCGTC-3'
630	5'-CTATGGATTCTTCCCGAACTAC-3'	5'-TTTGTGAAAGCCGTTATAGTAGC-3'
640	5'-CATTATTGACAACACGACCCTC-3'	5'-GCTCTAACCAAGGTCAGTGC-3'
650	5'-GGTCCGAAGCAGAACCCA-3'	5'-TCTTTGAAGCCTCCCCGTA-3'
660	5'-TATTCGTCGTCCTCACAAACC-3'	5'-ACTCCTCATGGGCATCTGAA-3'
670	5'-CCATTTCGTCATCAGTCGATCC-3'	5'-TGGTCATTGGCCATTGACTATC-3'
680	5'-TCGCCTGGATCACGACAG-3'	5'-TGTGAACGGGTCACAGCAC-3'
690	5'-GGTAGCGTTTCTACCCCAT-3'	5'-ATCTTGCCCTCCGCTTTTG-3'
700	5'-AGAAAGGGCTGAACAACGAAT-3'	5'-GTGTGCGGTCATGTCAAGGT-3'
710	5'-GGTTGACATTATGAGTTTATACCGA-3'	5'-GAGTACCATCGCCAAGGATC-3'
730	5'-GTATCATGGGTGCAAGGGTGT-3'	5'-CGTCGGGACTTAGCATCTCA-3'

740	5'-TCCCCTCACCATCACATC-3'	5'-TTGCTCCCAAATTCGCAGA-3'
750	5'-CATTTCAAACCGTGTCTAAAC-3'	5'-GTTAGCATCGCTCGCACC-3'
760	5'-CGGTGAAGGACAGGTGAGAG-3'	5'-TGTGTTTCAAGCCAAAGGACTA-3'
770	5'-ATGGTCGGTTGATGTCTTG-3'	5'-TCTCCGTTGGTTAATGGGATA-3'
790	5'-CCTTGGCTGACTGGAGACC-3'	5'-TCGGCAGCAGGAACCTCT-3'
800	5'-GCTATAGGGACTGTTACCTTGACAA-3'	5'-GCCGTGCAATCGTTCTC-3'
Control 1 Chr X	5'-TACCCTCTCTTTTCGGGACTTG-3'	5'-TCCATCACTCTCTATCGGGCTG-3'
Control 2 Chr X	5'-GGCCATCGAAAGGGTAAATTG-3'	5'-ACTGTCCGTAAGACAATTCAAC-3'
Control 3 Chr 2L	5'-TTTACCACGGCGAAATAGGC-3'	5'-GTGTCCTTGATGTCATTCTCCTA-3'
Control 4 Chr 2R	5'-TTGTTCAACGAAATCGGCAGTA-3'	5'-TCACGGTTATGAGCAGTAGGGT-3'
Control 5 Chr 3L	5'-GCCTACAAGATAATGAAACG-3'	5'-GGTACAACCAACTGAAGACC-3'
Control 6 Chr 3R	5'-CCGATACGGCATCAAAGGAC-3'	5'-GCATCTGAGGTTGGTAGGGA-3'

### High resolution ChIP

#### CG31998

216	5'-CGATCTAGCCATTTCCGTCTG-3'	5'-CGCTGCGTCTATGTCTTTGG-3'
218	5'-GAAATCGTAGAAAGCCTTGGTC-3'	5'-AATAATGGAAAGCATAGGTCCG-3'
220	5'-GGCTGCCAATAGTACAAAC-3'	5'-ATTCTTCGCAGCAAATCTCAA-3'
222	5'-AATTGCCCTCTGTCTTACG-3'	5'-GTCTTCTGGAAGAACACGCAC-3'
224	5'-CATTCTACTCATTCCACGCTACA-3'	5'-ATCAAACAAAACCGTCCCTAAC-3'
225	5'-TTTCACTTCCGGGGATCGTA-3'	5'-TTAAATGGGAGCCAGGGGTA-3'
226	5'-TATGACGACGCAAATGACGGA-3'	5'-TGAATGGGTGGGATTATGACA-3'
227	5'-GACCACGTTGTGCCAGGTAT-3'	5'-TGTCCGCTATCCAGTCCATC-3'

#### MED26

796	5'-TATTTACAACATGGCCCTGGTA-3'	5'-CGGTCCCATTGCTGTAGATAGAA-3'
798	5'-CAGCGAGGAATTGGCGATAT-3'	5'-CTTTGCATGTTCCGTTGTGC-3'
800	5'-CAGCAGTCTTTATTCGTTTTCG-3'	5'-CAGTCCCTATAGCAGTTCTAGCAG-3'
804	5'-GTCTAAACAAACCAATGGCCC-3'	5'-ACGCTGGTACAAACACGGAATG-3'
806	5'-CGTGAGCTTGGTGTAGATGGTA-3'	5'-TCGGATTCCGATGAGAATGAC-3'
808	5'-TCACATTTTACCACAGCGGC-3'	5'-CATGGGGTAGCTCAGTTCTTAGAC-3'
810	5'-GATTCGCAATTCGACTTTTGTG-3'	5'-GGTGGTAAGTGCAGAAATCCTTC-3'
812	5'-GGGAGAAATGGTCTTGGCATA-3'	5'-CCACTGTCGGAAATCTAGGC-3'

#### Zyx102EF

1074	5'-CCGCCTCGATCTCAAGAACTAT-3'	5'-CTGTCATCTCTTTTATTGCGGC-3'
1076	5'-TACTAAGCATAAGCTCCCGTGG-3'	5'-AAACTCGCAATGAGAAGGGTG-3'
1078	5'-GGAATAAAAGATTCGGTAAAAG-3'	5'-GGCAGATAGACTCGGCTAGTGT-3'
1079	5'-TAGGTGGTGGCGGTAACACTCAT-3'	5'-TTCTGCGAGTACATATTCAAACG-3'
1080	5'-CCCTCTAAAACGGTACAATAACGG-3'	5'-GCATCAGTAAAGAGGAGATTGGAT-3'
1082	5'-GAACACCACACCCAATCGTCTA-3'	5'-ATCGGTCATTCCCTATCCTT-3'
1084	5'-TTTTACGTCGCTCACTGTCACG-3'	5'-ACCATTCCCGTCTTTACCT-3'

<i>CaMKII</i>	5'-AAAGTCAGCGAGTTTCACTG-3'	5'-CAATCACTGCCACCAAATG-3'
<i>CG11076</i>	5'GCACATCGTCTCTTTTTGTTCC--3'	5'-GAAATTCTTGAAGCTACTGCC-3'
<i>CG31992</i>	5'-GCCAACCATCCATTGATAGG-3'	5'-AAGGAAGATGTAGAGCGGG-3'
<i>CG1732</i>	5'-GCATTTCTTGTCTATCCATCG-3'	5'-GTGAGTCCAATCCAATGAGCA-3'
<i>Pur-Alpha</i>	5'-GGGGCCTAGATCTCAAATCG-3'	5'-CCCTCCATCATTAGCTCCAAAC-3'
<i>CG2165</i>	5'-TCGACCCAGCATATCCAATC-3'	5'-TTTGCCGCAATCATCGTC-3'
<i>Xbp1</i>	5'-AACCTGGGAGGAGAAAGTG-3'	5'-TCCTTGATCTCGTAGTCCATC-3'

CG4016

5'-TTGTTCAACGAAATCGGCAGTA-3'

5'-TCACGGTTATGAGCAGTAGGGT-3'

#### Real-time RT-PCR

*CaMKII*

5'-GGGAGCCATACTTACGACAATG-3'

5'-CATCGTCTTCAAGAGTAGTGC-3'

CG11076

5'-GACGCTAGAACAAAAAGAGGAC-3'

5'-CTCGATGTCCTTTCGTCTAAG-3'

CG31992

5'-GGAGATCAACTCTGACAGTACG-3'

5'-AATACTGCGTCCAGTTGACC-3'

CG1732

5'-CATTACCTGGCGCTTTAGAAGG-3'

5'-AAGTCCAAGCCCGTATGAG-3'

*Pur-alpha*

5'-TTTAGCGATTACTACGTCTCTC-3'

5'-ACGCGCATTTTCTTTAAGTCC-3'

CG2165

5'-GCGGCAGTTGACGAACAAGAAG-3'

5'-GCTTGGGACCCCTTTATTTGCG-3'

*actin*

5'-CAGCCAGCAGTCGTCTAATC-3'

5'-ACAACCAGAGCAGCAACTTC-3'

*Pof*

5'-CCACCATCTGCGACATAAACAG-3'

5'-CGACGAGTAATTTGGTACACTG-3'

CG33228

5'-ACACAAAATGTGTGCGGC-3'

5'-GGGGTCTTGAAGTAATCAACC-3'

CG4806

5'-AAAGACGATGCCAAGGACTCAC-3'

5'-GCTTGGCGGCCGTGCCGACA-3'

#### Characterization of CG33228

Race1

5'-TGGCATAGTGATAGGCGGCCACCGCAGC-3'

Race2

5'-TCCGCCATTTGCGGAGCACGCTGCTGG-3'

Race3

5'-CCACTGCCACGACCACTGTACTTGCTGC-3'