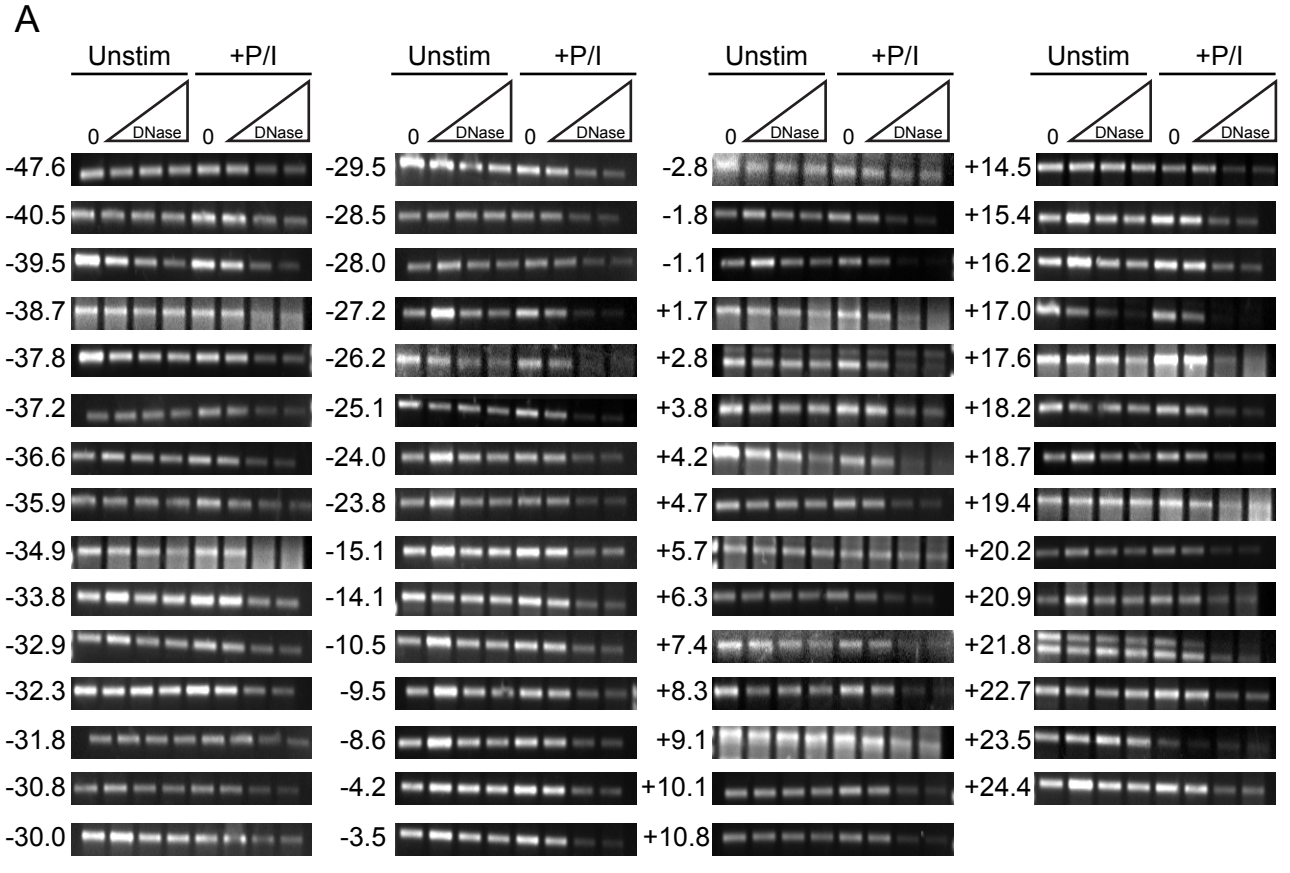
A
Unstim
+P/I
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DNase
-47.6
-40.5
-39.5
-38.7
-37.8
-37.2
-36.6
-35.9
-34.9
-33.8
-32.9
-32.3
-31.8
-30.8
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-27.2
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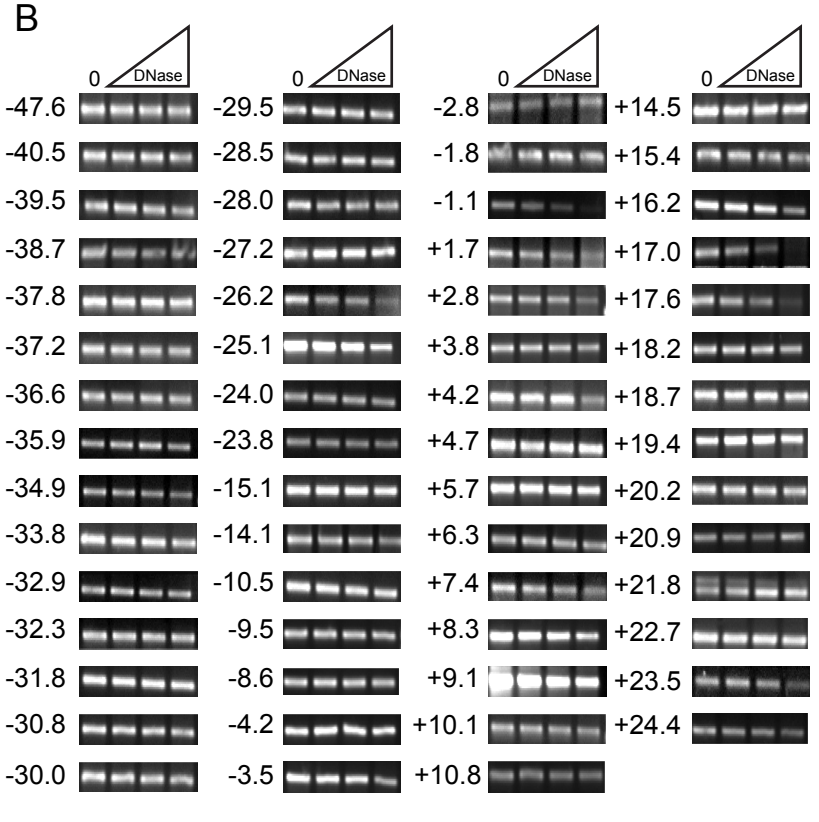
B
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DNase
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-38.7
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+10.1
+10.8
+14.5
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+17.0
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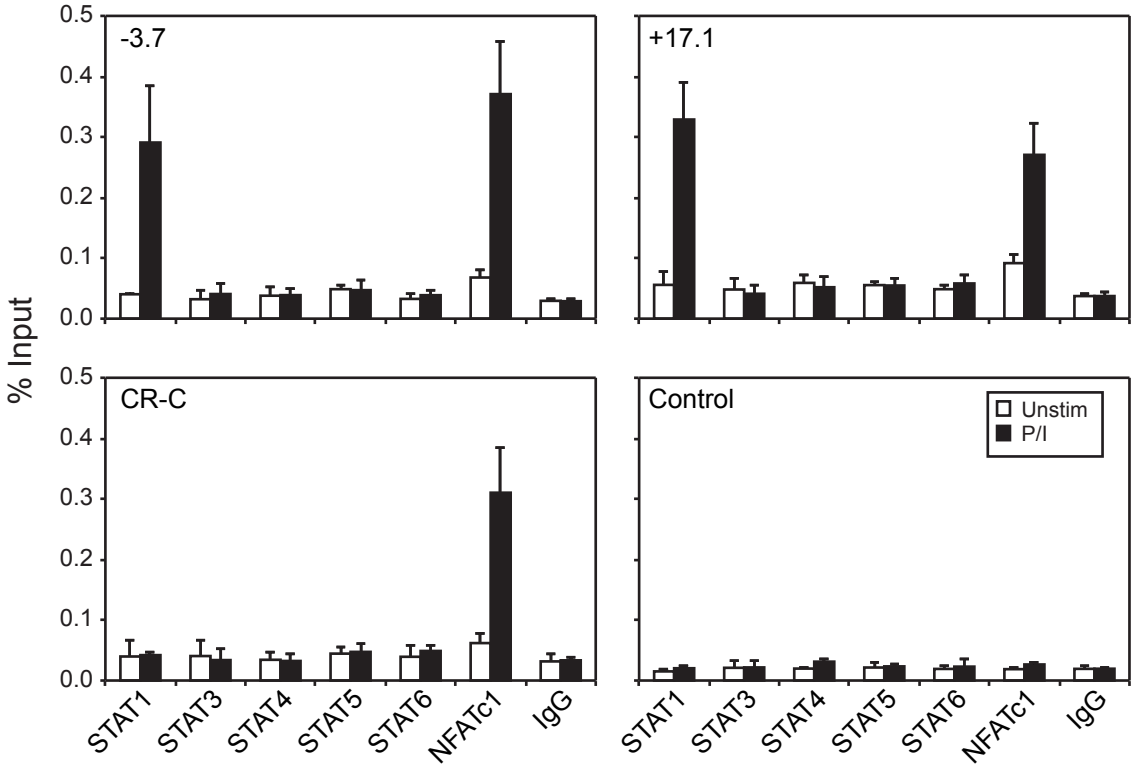
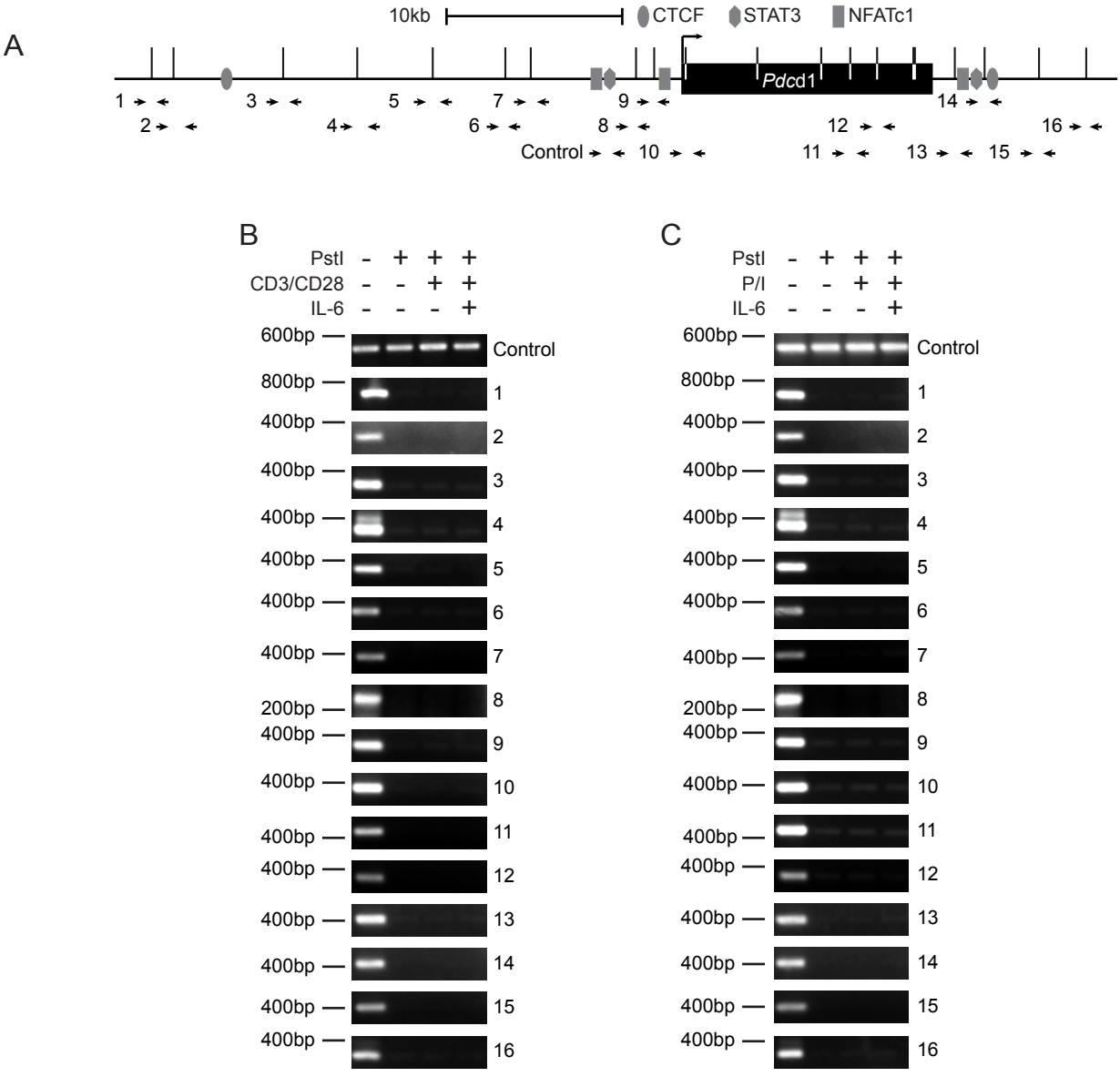
+21.8
+22.7
+23.5
+24.4

Supplemental Figure 1. T cell activation leads to a multiple DNase I hypersensitive sites in CD8 T cells. DNase I hypersensitivity assay of **(A)** CD8 T cells or **(B)** EL4 cells unstimulated or cultured for 24h with PMA/Io (P/I). Shown is one representative PCR for each cell type using all 59 primer sets. Each PCR is between 0.9-1.3 kb in length. Band intensities were determined and used to determine a slope representing loss of signal intensity. Slopes were normalized to a fragment containing the known hypersensitive CR-C region (-1.1) and used to determine relative hypersensitivity (Figures 1D and 1F).



Supplemental Figure 2. NFATc1 and STAT1 bind to the -3.7 and +17.1 regulatory regions in PMA/Ionomycin stimulated EL4 cells. Quantitative ChIP for the binding of STAT1, STAT3, STAT4, STAT5, STAT6, NFATc1, and a control IgG was performed at the indicated regions from EL4 cells stimulated with PMA/Io for 24h. Data is presented as the average percent input of three independent experiments. Error bars represent the standard deviation.



Supplemental Figure 3. All *Pst*I sites are equally accessible during 3C library preparation. **(A)** Schematic of the *Pdcd1* locus with all *Pst*I sites denoted as vertical lines. NFATc1, STAT3, and CTCF binding sites are also shown, while primer locations are denoted as arrows. **(B and C)** PCR of undigested or *Pst*I digested chromatin from **(B)** CD8 T or **(C)** EL4 cells using the primer pairs indicated. Cells were treated as indicated for 24h prior to cross-linking and chromatin isolation.

Supplemental Table 1 - Oligonucleotide Primers Used

Conventional PCR Dnase I Hypersensitivity Primers

-47.6 Forward	CTGCTCCGATTCCCTTTGTA		-3.5 Forward	TTGTCACTTTGGCACAGAGG
-47.6 Reverse	ACAGGATGATCTGGCTGGAC		-3.5 Reverse	TCCACTCACAAGTCAATCAACC
-40.5 Forward	ATGCATGCAAGATGGGTTTC		-2.8 Forward	TACCCACACCCTGGAGGTAA
-40.5 Reverse	TCCCCAATCTTCTCTCTTGTG		-2.8 Reverse	CCAGGGGAGTCATCTTTTCA
-39.5 Forward	GCTGGTTGTACCAATGAGCA		-1.8 Forward	CAAGACCCCTGTCAAGGCTA
-39.5 Reverse	GCATCTGTGCAATCCAGAAA		-1.8 Reverse	CTGTCCAGAAGGAAGGATGG
-37.8 Reverse	AACTTGTGCCAAACCAAAGG		-1.1 Forward	CCTCTCCAGACACCCCTGTA
-38.7 Forward	CCTTTGGTTTGGCACAAGTT		-1.1 Reverse	CAGCAGAAGGGGAAAAGAGA
-37.8 Forward	CGGTGCTGGATTCCCTTACT		+1.7 Forward	TTGGCAGTTTTGACAGATGG
-37.8 Reverse	AGGCCAGGCAGTTACAAGAA		+1.7 Reverse	TTGCTGTCAAGACTGGATGG
-37.2 Forward	ATATTCACCCCGCTCCCTAA		+2.8 Forward	ATGCTTCCTAAAGCCCCTCT
-37.2 Reverse	AGTGAGTGTATTTAACCTCCCATAA		+2.8 Reverse	GCCTTGGCCATGAGATTTAC
-36.6 Forward	TTGGGAAAGGAATGTTGAGC		+3.8 Forward	TGACAGGGAGCTTCTTGGTT
-36.6 Reverse	CACAGGTTCAGGGACACAAG		+3.8 Reverse	TCACCGAGTACCACAGTTGG
-35.9 Forward	CAAAACAAACAAAACCAACCAA		+4.2 Forward	GCGGGTTTGTAAGACTGAGC
-35.9 Reverse	CAGGAAGTTATTTGTCTGCTGGT		+4.2 Reverse	CTGGGGTAAAGATTCCAGCA
-34.9 Forward	GGGGCTGTTGCTTATGGAAG		+4.7 Forward	GAGCAGCCTGACTTTTGCTT
-34.9 Reverse	TTGGTTGGTTTTGTTTGTTTTG		+4.7 Reverse	ATTGTGTGCGTCTGTGTGGT
-33.8 Forward	GGCCTTTGGAAAATCAGATG		+5.7 Forward	CCCTTACCTCCCCATACGAT
-33.8 Reverse	CAGCCTCAGAACCTCCTTGT		+5.7 Reverse	AAGCAAAAGTCAGGCTGCTC
-32.9 Forward	AAATGAAAATTTGGAAGTCTTTTAGC		+6.3 Forward	ATGGCCAGTCATTTTGGATG
-32.9 Reverse	AGTTCAGCAAAGCACCATCC		+6.3 Reverse	AGGGTTTCCACCCTCTGTCT
-32.3 Forward	CCCAGTTCCAGGAAACAGAA		+7.4 Forward	CAGCTAGAGGGGTCAGCACT
-32.3 Reverse	GGCACACCTCTAATCCCAGA		+7.4 Reverse	CATCCTGTCTGCCCGTCTAT
-31.8 Forward	AACATGCATGGATCGTGTCT		+8.3 Forward	GAAACCTGGGGTCCCTTTAC
-31.8 Reverse	GCAATGGCTTCATTAAGATGG		+8.3 Reverse	TTATGTTCCACAGGCATCCA
-30.8 Forward	ATTATTTGCCTGCCCTGTCA		+9.1 Forward	AAAACACCTGGCAAACAAGG
-30.8 Reverse	CGATCCATGCATGTTAGACC		+9.1 Reverse	ACTGGACAGAGGTGCCTAGC
-30.0 Forward	TCCAGGAGAGCAGAGAGACC		+10.1 Forward	GTGGGAGTGTAGGGTTTCCA
-30.0 Reverse	GTGTGGCTCCTGTCCTGTCT		+10.1 Reverse	ATGGATGTCTCTGGGTTTGC
-29.5 Forward	CACAAAACATCGGTTGTCCA		+10.8 Forward	ATGGCCCCACAGAGGTAGAT
-29.5 Reverse	GGTGCAAGCTCAAGGCTATT		+10.8 Reverse	TTTTGAGTGCTGGTGGAATG
-28.5 Forward	ATGTAGTCACCACCGGCATT		+14.5 Forward	CCTCTAACCCTGCTTGTCCA
-28.5 Reverse	TGTGGACAACCGATGTTTTG		+14.5 Reverse	GTTGACAGCAGGGAGGAAAG
-28.0 Forward	AATGCCTTTGCTCTGCTGTT		+15.4 Forward	GAGTTGTGGCTTTTGCCTTC
-28.0 Reverse	TGATGATGACCGTGGAGAAA		+15.4 Reverse	TCTCCGACCTCTGTCTGGAT
-27.2 Forward	AACCAAACAGAGCGAGCAAT		+16.2 Forward	GCACAACCCTAGCTTGCTTC
-27.2 Reverse	GCTCAGGTGTTAGCGCTTTT		+16.2 Reverse	AGATTCCCACCACATGCAAT
-26.2 Forward	ATGCAATCGCACTAGGGTCT		+17.0 Forward	CCTCTAGTCCTCACCGTGGA
-26.2 Reverse	ATTGCTCGCTCTGTTTGGTT		+17.0 Reverse	CACAGGGCTGTCAGTGCTAA
-25.1 Forward	CTGCCCATGTGTTTGTTTTG		+17.6 Forward	TGTAACAGGCAGGTCTGTGG
-25.1 Reverse	GCCCCATCAATCAAATGTGT		+17.6 Reverse	GGACCAGTCAGCACTTCACA
-24.0 Forward	GGACTTACCAAACCCCGAGT		+18.2 Forward	GACTCGCCACCTCTGACATT
-24.0 Reverse	GTTCAGGCGAGAGGAGAGAA		+18.2 Reverse	TGCCACTGCTTCCAGTGTAG
-23.8 Forward	CTACCAGTCGGTTCCTGCTC		+18.7 Forward	GAAGCCAAGGACCATGTTGT
-23.8 Reverse	AAAGGCAGGTTGTGCTGAGT		+18.7 Reverse	GTCAATGGCTGCTTCACAAA
-15.1 Forward	CACAATGACAGGACATTTGGA		+19.4 Forward	CAGGGAAAACCTCCCCTTTA
-15.1 Reverse	TTCCATGCTCTGTTTCATGC		+19.4 Reverse	CTGGCACTTAATGGGGTCAG
-14.1 Forward	TGCTCCCTTCTGGAGTGTCT		+20.2 Forward	CAGAGGCTTTTCCCCCTATC
-14.1 Reverse	TGGAATCCAAATGTCCTGTC		+20.2 Reverse	CAGCCTAGCCTGTGGTTGTT
-10.5 Forward	CTGCCCTATTCCCTTGGTTT		+20.9 Forward	CTGTCTGTGTTTGTGAGTGGTG
-10.5 Reverse	TGGAAGCTCTTAAGCAACCAC		+20.9 Reverse	AGAGTGCGGCTTACATCAGG
-9.5 Forward	CATGTGGGTGTGGTGAGGTA		+21.8 Forward	AAGTCATTGGTTCACCAAGTTAGA
-9.5 Reverse	AACCAAGGGAATAGGGCAGT		+21.8 Reverse	GCTCATAAAATAGAAAGACACCACT
-8.6 Forward	TTATGATCCCACCCCAGCTA		+22.7 Forward	CTAACCCCAACCCCAACTTC
-8.6 Reverse	TGCCACCACAATCTTCAGTT		+22.7 Reverse	ACCCCCAAACCAAGAAAACT
-4.2 Forward	CAGGCTGCTCAGCTCTTAGG		+23.5 Forward	GCTCCAAGCACAAACCAAAT
-4.2 Reverse	TCTTTCACCGGGCTGATAAC		+23.5 Reverse	TGGCTGCAATTGGTGTATTC
			+24.4 Forward	AGGACAAATTGGCTCCACTG
			+24.4 Reverse	TGTCTAAAGAGCCATCCAGGT

Real Time DNase I Hypersensitivity Primers

-39.0 Forward	TTCCACCCACACGGAATTAT		-3.2 Forward	ACTTTGGCACAGAGGGCTTCATCT
-39.0 Reverse	AGGCCAGGCAGTTACAAGAA		-3.2 Reverse	TCATCAAAGGAAGTCAGGGCAGGA
-38.9 Forward	AAACCCCACACATTCCAGAG		-1.2 Forward	CGACTTGTGTGCATGCATAGTACC
-38.9 Reverse	GACGACCCCAAATGGTAGAA		-1.2 Reverse	GAGGTCCTTTCACTCTCCACG
-38.6 Forward	GCTTCCCCTTCTCTGACCTT		+0.4 Forward	AGAAATGCTAGCACGGGAAG
-38.6 Reverse	CTTCTGCTTCCTCCCTCTCA		+0.4 Reverse	CAATCAGGGTGGCTTCTAGG
-38.4 Forward	TCCTCCTACTTCTGCCTCCT		+0.7 Forward	ACTGGGACGTCATATGAGCAAAGG
-38.4 Reverse	TCCAATGAAAACCATTGGCTA		+0.7 Reverse	TCAGCTGTCTACCCTCATGGACAA
-37.0 Forward	TCCCTAAGCTATGTCCCTGCTTGT		+1.2 Forward	GGTGTCCCACGTTGAGCTAT
-37.0 Reverse	CCATCATGAAGTGAACACACACAGGC		+1.2 Reverse	ATGACGTCCCAGTCACCTTC
-36.7 Forward	TGTTGATTCCACTTTGATGAGTG		+1.4 Forward	TGGGCACGATCCACTATGGCTGT
-36.7 Reverse	ACAGCAGTAGCCAGGGAAGA		+1.4 Reverse	CCCACGGAGCAAAGTCGGAAGG
-36.3 Forward	TTGGGAAAGGAATGTTGAGC		+2.0 Forward	CTCATGGCCAAGGCAATACT
-36.3 Reverse	TTTGAAACTGGCAAAGTTGTG		+2.0 Reverse	ATGGTGATCTTGGGCTTGTC
-36.0 Forward	ATGTTGGGCTGAAGAGATGG		+2.4 Forward	TGTGAACAGAGGGAACACCA
-36.0 Reverse	ATGGTCCTGGTCCCTTTGTA		+2.4 Reverse	TGGGTGCTGGAAATTGAATC

-35.6 Forward	TGGAGTGGATGTAGCACAAAA
-35.6 Reverse	CCATCTCTTCAGCCCAACAT
-33.9 Forward	CACATCTGCCCGTTTCCTAA
-33.9 Reverse	CTTGAGTCACATTGCCTGTAGA
-33.6 Forward	CAGGGTCACAAGTGCTAAGT
-33.6 Reverse	CACACTAACCCAGCAGACAA
-33.1 Forward	CACTGGACTCGTTAAGCTACAG
-33.1 Reverse	ACCCTGCCTCCAATTTCATTA
-32.7 Forward	TGCAGTTACCCTGCTTGTT
-32.7 Reverse	GCACACCTCTAATCCCAGATAC
-32.3 Forward	AGTGTTGGGCTGAAAGGTATG
-32.3 Reverse	CATCCCTGCATGGCTATTGT
-32.0 Forward	AGGTCTAGTCTCTTGACTCCTG
-32.0 Reverse	GCAATGGCTTCATTAAGATGGG
-28.3 Forward	CGGTTTCAAGCCCTAGCTTA
-28.3 Reverse	CGGCTCCATTCATCCATCTA
-28.0 Forward	ACATAAGTGTCGCCCAGAGG
-28.0 Reverse	GGAGAGTGCAGGGAACAAGA
-27.7 Forward	AATGCCTTTGCTCTGCTGTT
-27.7 Reverse	TAACCATTTCGCTCCTCTGG
-27.0 Forward	AGAGTCCCAGGTTAGGGTTATGCT
-27.0 Reverse	GGTCTAAGTCCTTCTAGGAAACCA
-26.8 Forward	ATTGCCCAGGTGAAGGTGGCTATT
-26.8 Reverse	TAGCGTTGGGCAGTGTTGACTAGA
-26.5 Forward	TCTCTGGGTGTTCAAGCTCAAGGG
-26.5 Reverse	CTGCCACTAGGTGGGAGCCTCT
-24.4 Forward	CTCCCAATCTGGGTGAGTGT
-24.4 Reverse	GACTCTCTGCTGGCAGGTTC
-24.2 Forward	CAGGCTGTGTAGTTGCTCCA
-24.2 Reverse	GGGGATCTTTGATGAGGTGA
-23.8 Forward	GGACTTACCAAACCCCGAGT
-23.8 Reverse	GGGCAGCTCAACAGATTGAA
-15.6 Forward	ATCCAAAGCCTGCCTATAGCACCA
-15.6 Reverse	TTTAGCAGTTGGCTATGGCTCCGT
-14.9 Forward	TTTGTTTATGCTTGGCCCAGGGAG
-14.9 Reverse	TGCTGGGATTTGAACTCTGGACCT
-14.4 Forward	GCAGAATTCAGAGGGCAAACAGCA
-14.4 Reverse	ACAGCTGGTTGTGAGCCACTATGT
-14.1 Forward	AGCATGCAGAGGTCCTGAGTTCAA
-14.1 Reverse	TCTTCTGCCTCTCTGTGTGTCTGT
-10.5 Forward	GCCATTTGATGTGGATGCTATG
-10.5 Reverse	GTCTAGCTCTGGGACATGATTG
-10.2 Forward	AAGGACATACACTGCCCTATTC
-10.2 Reverse	CCTCAGAACTCCTGCCTATTC
-9.9 Forward	ATCTACCTCTCTTCAGCTCACT
-9.9 Reverse	CGACTCTATGCTTCTCCCATTT
-9.4 Forward	AGTGATCTGAGGCAGGAGATAG
-9.4 Reverse	GTGAGCTGAAGAGAGGTAGATAGA
-9.0 Forward	CACCTGGACAGTGGCTATTT
-9.0 Reverse	CAGCATCTCTTCCTCTCATCTTT
-8.7 Forward	GGCCACTCACTCATTTCCTTA
-8.7 Reverse	CTATTCCCTGCCACAACTAGAC
-3.7 Forward	TCCTGCCCTGACTTCCTTTGATGA
-3.7 Reverse	AAAGCCTGTATCGAGCTGTGCTGA

+3.6 Forward	TGTCAGAGCTCTTGCTGCAT
+3.6 Reverse	TGGATGGTTGTCACCGAGTA
+4.0 Forward	TGCTAGGGCCCAATCATAAC
+4.0 Reverse	CCCACTTTCTCCCATCACTG
+4.4 Forward	CAGAGGCCACTCTTGACTCC
+4.4 Reverse	CAGGTGGACATGGGGAATAC
+4.7 Forward	TGCCCAACCTATCTCAGGAC
+4.7 Reverse	AAGGCTCCCTGGAGGAGATA
+5.0 Forward	ACGCACAGACACTCCTTTCA
+5.0 Reverse	CTGTGAGTGGCTTTCCAGTG
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+5.3 Reverse	AGGCTGCTTCTGGGTGCATTCC
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+6.6 Reverse	GGGTCTGGACCAACACCTAA
+7.6 Forward	GCTACTTCAGTGGCCGAGAC
+7.6 Reverse	CAAGCTCTGTGGGGTACTGG
+8.1 Forward	TGACTTCCCAGGTCTCTGTCCTTT
+8.1 Reverse	TCCACAGCATGAAAGGGAGACTCA
+8.5 Forward	CCCCAATCTCCAGAGTCTCA
+8.5 Reverse	GCAAAACCACCAGGACCTAA
+8.9 Forward	CCACGATGGGGACTTCTAAA
+8.9 Reverse	ACTGGACAGAGGTGCCTAGC
+9.3 Forward	CCGCACCATGTAGCCTTGCCC
+9.3 Reverse	AGAAGTCCCCATCGTGGTTGTGT
+9.5 Forward	GGTTATGGGCTCAGAAAGCA
+9.5 Reverse	CTGACACCGCTGGTTCTTCT
+9.8 Forward	GCTCTGGCCTCAACTCTGTC
+9.8 Reverse	GGTTTGCCTCTGCTGAAGTC
+10.2 Forward	CCAGATCAGAGGTCACAGCA
+10.2 Reverse	TTCTCTACGAGCCCCAGTTG
+10.5 Forward	CCTTCCCACTCCTGTTCAAG
+10.5 Reverse	TTTTGAGTGCTGGTGGAATG
+10.8 Forward	CCATTGGGGACCTCTGAAAT
+10.8 Reverse	TCCCTGGGACAAAATACTGC
+15.1 Forward	AGGAAGGTTGAGGACCACTG
+15.1 Reverse	TCTCCGACCTCTGTCTGGAT
+15.4 Forward	ACCGTGAGCAGCACTCTGAT
+15.4 Reverse	GTCTGGTCGCACAGCTCATA
+15.8 Forward	GAGTTGTGGCTTTTGCCTTC
+15.8 Reverse	GCAGGAGAAGCAGGGTACAG
+16.7 Forward	GGTTCAGAGACCCGTTGAGA
+16.7 Reverse	CACAGGGCTGTCAGTGCTAA
+17.1 Forward	TGGAGAGGAGAGAGCAAAGG
+17.1 Reverse	TCAACGGGTCTCTGAACCTC
+17.4 Forward	AAGAGGCCTCACCCACATC
+17.4 Reverse	CTCCCACTGTGGTGTCCTTA
+24.2 Forward	CAGAGCTTGGGTCTCTCATTT
+24.2 Reverse	CAG GTG GAC AGC CTT GTA TT
+24.7 Forward	ACAGTCACATGCCAACTACC
+24.7 Reverse	GCTTCTCCACTACACCACTTAC

Luciferase Reporter Cloning Primers

-35.6 Forward	CTGTGCTAGCGCTTTTGGGCCTGTCATGTGGGT
-35.6 Reverse	TCTTGCTAGCCACCAGAAGAGGGCATCGAATCCC
-27.7 Forward	ATGAGCTAGCAATGCCTTTGCTCTGCTGTTTGAGA
-27.7 Reverse	AGGTGCTAGCAGGGTGCACAGGCTCCTCAGT
-26.7 Forward	TCTGGCTAGCTAGCGTTGGGCAGTGTTGACTAGAGA
-26.7 Reverse	TGTCGCTAGCTGTGTGTGAGACTTCAGGAGCCTATT
-23.8 Forward	TGTCGCTAGCCTCCTAAGGGACTTACCAAACCCCG
-23.8 Reverse	CCAAGCTAGCCCCCAAAGCAGGTGAAGGCTCA
-3.7 Forward	GTGGGCTAGCCTATCCCTGGCCTGGTGGTCCT
-3.7 Reverse	AAAGGCTAGCTCGAGCTGTGCTGATGGACACCC
+3.5 Forward	TCACGCTAGCGGGAGAAAGTGGGAGATGGGGGAT
+3.5 Reverse	GTCAGCTAGCACCACAGTTGGCGGAGAGGGG
+17.1 Forward	TGTCGCTAGCTGGTTTGTGGTGGAGTAGCCACAT
+17.1 Reverse	TCTGGCTAGCAGTGGTCATACTCTCAACGGGTCT
-3.7 ΔNFAT1 Forward	GATGATAAACAGTGATAGTAAGCCAAATAAACC
-3.7 ΔNFAT1 Reverse	GGTTTATTTGGCTTACTATCACTGTTTATCATC

-3.7 ΔNFAT2 Forward	GTAAGCCAAATAAACCTTTCACCGCCTTGGGTT
-3.7 ΔNFAT2 Reverse	AACCCAAGGCGGTGAAAGGTTTATTTGGCTTAC
-3.7 ΔStat1 Forward	AGGGCTTGGGCATCTTGGCTGAAAGTACAG
-3.7 ΔStat1 Reverse	CTGTACTTTCAGCCAAGATGCCCAAGCCCT
-3.7 ΔStat2 Forward	ATCTTGCCAGATGGCACAGAAGTTGACCTG
-3.7 ΔStat2 Reverse	CAGGTCAACTTCTGTGCCATCTGGCAAGAT
-3.7 ΔStat1ΔStat2 Forward	AGGGCTTGGGCATCTACAGAAGTTGACCTG
-3.7 ΔStat1ΔStat2 Reverse	CAGGTCAACTTCTGTAGATGCCCAAGCCCT
-3.7 ΔControl Forward	GGACAGGATTCCCATCCCTCCTAAAGCTTGTCCTCAA
-3.7 ΔControl Reverse	TTGAGGACAAGCTTTAGGAGGGATGGGAATCCTGTCC
+17.1 ΔNFAT Forward	GGCAGAGCGAGCGGAAATGAGTTCAGGGAG
+17.1 ΔNFAT Reverse	CTCCCTGAACTCATTTCCGCTCGCTCTGCC
+17.1 ΔStat Forward	GGAGGCGCAGCTGCTGCTTTACCGGATGTGAAGTGCT
+17.1 ΔStat Reverse	AGCACTTCACATCCGGTAAAGCAGCAGCTGCGCCTCC
+17.1 ΔControl Forward	CTCTCTCTGTTCTTATAGGGGCTGCCACTAC
+17.1 ΔControl Reverse	GTAGTGGCAGCCCCTATAAGAACAGAGAGAG

ChIP Primers	
-26.7 Forward	TCAAGACACACAGCGTACAGAC
-26.7 Reverse	ACAAGCCATTGCTCGCTCTGTT
-3.7 Forward	AGGGTGAGCAGGCGAGAGCAA
-3.7 Reverse	AGCACAGGGAAGAAGCTGTTGGG
CR-C Forward	CCTCACCTCCTGCTTGTCTCTC
CR-C Reverse	GTGAGACCCACACATCTCATTGC
CR-B Forward	GGCAGTGTCGCCTTCAGTAGC

3C Primers	
Fragment 2 Anchor	TCAGGATGCTATGGCTGAAAG
Fragment 5 Anchor	TTAGTGCACAAGTGTGGTGT
Fragment 6 Anchor	GCTGTCAGCACATCCCTATT
Fragment 8 Anchor	CACCATGCTTGTGGTATGGA
Fragment 9 Anchor	CTCTGGTTTGTGGTGGAGTAG
Fragment 1 Reverse	TGACCTTGAACCTGCCATATT
Fragment 2 Reverse	ACCCTGATCTCAGTTAAGCAAG

CR-B Reverse	CCACCTCTAGTTGCCTGTTCTC
+17.1 Forward	GGAGGGGATAGGCGCTGGGT
+17.1 Reverse	TCTGGGCCAAGCCATCCGGT
+17.5 Forward	ATACAAAGAGGCCTCACCCACA
+17.5 Reverse	TGGAAGGCAGAATTGGCACCTA
Control Forward	CAGAGGCCACTCTTGACTCC
Control Reverse	AAGGCTCCCTGGAGGAGATA

Fragment 3 Reverse	CCAATGTCCCTTCACACTGA
Fragment 4 Reverse	CGGAGAAAGTGAACCTGTTTAGA
Fragment 5 Reverse	CAGGGCAGAACAGAGAGTTT
Fragment 6 Reverse	GAAGAGGAGACTGCTACTGAAG
Fragment 7 Reverse	AGGTCCCTCACCTTCTACC
Fragment 8 Reverse	TGAGACCCAGCGCCTAT
Fragment 9 Reverse	TGTTCCTCCTCCCACTTGA
Fragment 10 Reverse	TAGGTAATCATGCCTGCTAAGG

RT-PCR Primers	
PD-1 Forward	CGTCCCTCAGTCAAGAGGAG
PD-1 Reverse	GTCCCTAGAAGTGCCCAACA
18S Forward	GTAACCCGTTGAACCCCATT
18S Reverse	CCATCCAATCGGTAGTAGCCG
Restriction Enzyme Accessibility	
Site 1 Forward	TCTTCGTGTCTTGTGTGTTAGT
Site 1 Reverse	GTGACAGGGCAGGCAAATA
Site 2 Forward	TGTGGGCAAAGCCTGTAAT
Site 2 Reverse	GGCAGCTAAGATCGCAGAATA
Site 3 Forward	TCACCCAGTAAACCAACTTCTC
Site 3 Reverse	CCTCAGCATGTGTCTGCTATT
Site 4 Forward	AGTAAGACCTGTGGAGGATACA
Site 4 Reverse	ACCAGAGGTAGTGTGAAAGAAAG
Site 5 Forward	AAACTTTGTGAGCTGCTGTTT
Site 5 Reverse	GTTTCTTCTGCCTCTCTGTGT
Site 6 Forward	TCTACCTCTCTTCAGCTCACTT
Site 6 Reverse	GGTGGAGAAACCAAGGGAATAG
Site 7 Forward	GGTGCATAGGACTTGGATTGA
Site 7 Reverse	TACTGGGCTCTGTGGAATAGA
Site 8 Forward	GTTCTGAGGTTGAAACAGGAAATG
Site 8 Reverse	GAAACAGGAGTTAGGGATCACAT
Site 9 Forward	CCTGTCAAGGCTAGGTGATTAG
Site 9 Reverse	GGGAGGAAAGGAGAAAGTAAGG
Site 10 Forward	CATAGAGAAAGGCCAAGGATACC
Site 10 Reverse	AGGGTGGCTTCTAGGTATGT
Site 11 Forward	GGAGGGAATTCTACCCGATTAC
Site 11 Reverse	TGAGAACATCAAGGAGGGAAAG
Site 12 Forward	TGCCCACGTAGGTTCTACTA
Site 12 Reverse	AGTGTCAGAGGGAGCAAATG
Site 13 Forward	ACCGTGAGCAGCACTCTGAT
Site 13 Reverse	GTCTGGTCGCACAGCTCATA
Site 14 Forward	TGGAGAGGAGAGAGCAAAGG
Site 14 Reverse	TCAACGGGTCTCTGAACCTC
Site 15 Forward	GTCAGTGAGGACACTCAACAG
Site 15 Reverse	GCTATGAGCTTGTTGGGAAATG
Site 16 Forward	CCAGCCAGAGAACAGATGAATA
Site 16 Reverse	TCTCTTCCCAGAAACCATTCAC