






















































































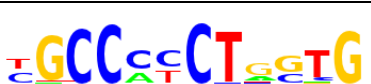





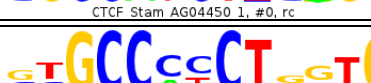








Table S1 Known motifs recovered by GEM in ENCODE data

The 184 GEM discovered primary motifs that match the public database PWM. The PFM of these primary and secondary motifs are in Dataset S2.

AP-2alpha_Snyder_HeLa-S3	 AP-2alpha Snyder HeLa-S3 1, #0,	 AP-2alpha Snyder HeLa-S3 1, #0, rc
AP-2gamma_Snyder_HeLa-S3	 AP-2gamma Snyder HeLa-S3 1, #0,	 AP-2gamma Snyder HeLa-S3 1, #0, rc
BHLHE40-v041610.1_Myers_HepG2	 HE40-v041610.1 Myers HepG2 1,	 HE40-v041610.1 Myers HepG2 1,
CEBPB_Snyder_HepG2-forskolin	 CEBPB Snyder HepG2-forskolin 1, #0	 CEBPB Snyder HepG2-forskolin 1, #0,
c-Fos_Snyder_HeLa-S3	 c-Fos Snyder HeLa-S3 1, #0,	 c-Fos Snyder HeLa-S3 1, #0, rc
c-Jun_Snyder_GM12878	 c-Jun Snyder GM12878 1, #0,	 c-Jun Snyder GM12878 1, #0, rc
c-Jun_Snyder_HeLa-S3	 c-Jun Snyder HeLa-S3 1, #0,	 c-Jun Snyder HeLa-S3 1, #0, rc
c-Jun_Snyder_HUVEC	 c-Jun Snyder HUVEC 1, #0,	 c-Jun Snyder HUVEC 1, #0, rc
c-Jun_Snyder_K562	 c-Jun Snyder K562 1, #0,	 c-Jun Snyder K562 1, #0, rc
c-Jun_Snyder_K562-IFNa6h	 c-Jun Snyder K562-IFNa6h 1, #0,	 c-Jun Snyder K562-IFNa6h 1, #0, rc
c-Jun_Snyder_K562-IFNg30	 c-Jun Snyder K562-IFNg30 1, #0,	 c-Jun Snyder K562-IFNg30 1, #0, rc
c-Jun_Snyder_K562-IFNg6h	 c-Jun Snyder K562-IFNg6h 1, #0,	 c-Jun Snyder K562-IFNg6h 1, #0, rc
c-Myc_Crawford_GM12878	 Myc Crawford GM12878 1, #	 Myc Crawford GM12878 1, #rc
c-Myc_Crawford_HeLa-S3	 Myc Crawford HeLa-S3 1, #1	 Myc Crawford HeLa-S3 1, #0
c-Myc_Crawford_HepG2	 c-Myc Crawford HepG2 1, #0,	 c-Myc Crawford HepG2 1, #0, rc
c-Myc_Crawford_HUVEC	 c-Myc Crawford HUVEC 1, #0,	 c-Myc Crawford HUVEC 1, #0, rc
c-Myc_Crawford_K562	 c-Myc Crawford K562 1, #0,	 c-Myc Crawford K562 1, #0, rc

c-Myc_Crawford_MCF-7	 c-Myc Crawford MCF-7 1, #0	 c-Myc Crawford MCF-7 1, #0
c-Myc_Crawford_MCF-7-estrogen	 c-Myc Crawford MCF-7-estrogen 1, #0	 c-Myc Crawford MCF-7-estrogen 1, #0
c-Myc_Crawford_MCF-7-vehicle	 c-Myc Crawford MCF-7-vehicle 1, #0	 c-Myc Crawford MCF-7-vehicle 1, #0
c-Myc_Snyder_GM12878	 c-Myc Snyder GM12878 1, #0	 c-Myc Snyder GM12878 1, #0
c-Myc_Snyder_HeLa-S3	 c-Myc Snyder HeLa-S3 1, #0	 c-Myc Snyder HeLa-S3 1, #0
c-Myc_Snyder_K562	 c-Myc Snyder K562 1, #0	 c-Myc Snyder K562 1, #0
c-Myc_Snyder_K562-IFNa30	 c-Myc Snyder K562-IFNa30 1, #0	 c-Myc Snyder K562-IFNa30 1, #0
c-Myc_Snyder_K562-IFNa6h	 c-Myc Snyder K562-IFNa6h 1, #0	 c-Myc Snyder K562-IFNa6h 1, #0
c-Myc_Snyder_K562-IFNg6h	 c-Myc Snyder K562-IFNg6h 1, #0	 c-Myc Snyder K562-IFNg6h 1, #0
CTCF_Bernstein_GM12878	 CTCF Bernstein GM12878 1, #0	 CTCF Bernstein GM12878 1, #0, rc
CTCF_Bernstein_H1-hESC	 CTCF Bernstein H1-hESC 1, #0	 CTCF Bernstein H1-hESC 1, #0, rc
CTCF_Bernstein_HeLa-S3	 CTCF Bernstein HeLa-S3 1, #0	 CTCF Bernstein HeLa-S3 1, #0, rc
CTCF_Bernstein_HepG2	 CTCF Bernstein HepG2 1, #0	 CTCF Bernstein HepG2 1, #0, rc
CTCF_Bernstein_HMEC	 CTCF Bernstein HMEC 1, #0	 CTCF Bernstein HMEC 1, #0, rc
CTCF_Bernstein_HSMM	 CTCF Bernstein HSMM 1, #0	 CTCF Bernstein HSMM 1, #0, rc
CTCF_Bernstein_HUVEC	 CTCF Bernstein HUVEC 1, #0	 CTCF Bernstein HUVEC 1, #0, rc
CTCF_Bernstein_K562	 CTCF Bernstein K562 1, #0	 CTCF Bernstein K562 1, #0, rc
CTCF_Bernstein_NHEK	 CTCF Bernstein NHEK 1, #0	 CTCF Bernstein NHEK 1, #0, rc
CTCF_Bernstein_NHLF	 CTCF Bernstein NHLF 1, #0	 CTCF Bernstein NHLF 1, #0, rc







































CTCF_Crawford_Gliobla	 CTCF Crawford Gliobla 1, #0.	 CTCF Crawford Gliobla 1, #0, rc
CTCF_Crawford_GM12878	 CTCF Crawford GM12878 1, #0.	 CTCF Crawford GM12878 1, #0, rc
CTCF_Crawford_HeLa-S3	 CTCF Crawford HeLa-S3 1, #0.	 CTCF Crawford HeLa-S3 1, #0, rc
CTCF_Crawford_HepG2	 CTCF Crawford HepG2 1, #0.	 CTCF Crawford HepG2 1, #0, rc
CTCF_Crawford_HUVEC	 CTCF Crawford HUVEC 1, #0.	 CTCF Crawford HUVEC 1, #0, rc
CTCF_Crawford_K562	 CTCF Crawford K562 1, #0.	 CTCF Crawford K562 1, #0, rc
CTCF_Crawford_MCF-7	 CTCF Crawford MCF-7 1, #0.	 CTCF Crawford MCF-7 1, #0, rc
CTCF_Crawford_MCF-7-estrogen	 CTCF Crawford MCF-7-estrogen 1, #0.	 CTCF Crawford MCF-7-estrogen 1, #0, rc
CTCF_Crawford_MCF-7-vehicle	 CTCF Crawford MCF-7-vehicle 1, #0.	 CTCF Crawford MCF-7-vehicle 1, #0, rc
CTCF--SC-5916-PCR1x_Myers_A549-EtOH-0.02pct	 CTCF--SC-5916-PCR1x Myers A549-EtOH-0.02pct 1, #0.	 CTCF--SC-5916-PCR1x Myers A549-EtOH-0.02pct 1, #0, rc
CTCF--SC-5916-v041610.1_Myers_HepG2	 CTCF--SC-5916-v041610.1 Myers HepG2 1, #0.	 CTCF--SC-5916-v041610.1 Myers HepG2 1, #0, rc
CTCF--SC-5916-v041610.2_Myers_H1-hESC	 CTCF--SC-5916-v041610.2 Myers H1-hESC 1, #0.	 CTCF--SC-5916-v041610.2 Myers H1-hESC 1, #0, rc
CTCF--SC-5916-v041610.2_Myers_T-47D-DMSO-0.02pct	 CTCF--SC-5916-v041610.2 Myers T-47D-DMSO-0.02pct 1, #	 CTCF--SC-5916-v041610.2 Myers T-47D-DMSO-0.02pct 1, #, rc
CTCF_Stam_AG04449	 CTCF Stam AG04449 1, #0.	 CTCF Stam AG04449 1, #0, rc
CTCF_Stam_AG04450	 CTCF Stam AG04450 1, #0.	 CTCF Stam AG04450 1, #0, rc
CTCF_Stam_AG09309	 CTCF Stam AG09309 1, #0.	 CTCF Stam AG09309 1, #0, rc
CTCF_Stam_AG09319	 CTCF Stam AG09319 1, #0.	 CTCF Stam AG09319 1, #0, rc
CTCF_Stam_AG10803	 CTCF Stam AG10803 1, #0.	 CTCF Stam AG10803 1, #0, rc

CTCF_Stam_AoAF		
CTCF_Stam_BJ		
CTCF_Stam_GM12878		
CTCF_Stam_HA-sp		
CTCF_Stam_HBMEC		
CTCF_Stam_HCFaa		
CTCF_Stam_HCPEpiC		
CTCF_Stam_HEEpiC		
CTCF_Stam_HeLa-S3		
CTCF_Stam_HepG2		
CTCF_Stam_HMEC		
CTCF_Stam_HMF		
CTCF_Stam_HPAF		
CTCF_Stam_HPF		
CTCF_Stam_HRPEpiC		
CTCF_Stam_HUVEC		
CTCF_Stam_K562		
CTCF_Stam_NHEK		
CTCF-v041610.2_Myers_SK-N-SH-		





































RA		
EBF1--SC-137065-PCR1x_Myers_GM12878	 EBF1--SC-137065-PCR1x Myers GM12878 1, #0	 EBF1--SC-137065-PCR1x Myers GM12878 1, #0,
EBF-PCR1x_Myers_GM12878	 EBF-PCR1x Myers GM12878 1, #0,	 EBF-PCR1x Myers GM12878 1, #0, rc
Egr-1-PCR2x_Myers_GM12878	 Egr-1-PCR2x Myers GM12878 1, #	 Egr-1-PCR2x Myers GM12878 1, #0
Egr-1-v041610.1_Myers_GM12878	 Egr-1-v041610.1 Myers GM12878 1, #0,	 Egr-1-v041610.1 Myers GM12878 1, #0, rc
Egr-1-v041610.1_Myers_K562	 Egr-1-v041610.1 Myers K562 1, #	 Egr-1-v041610.1 Myers K562 1, #0
Egr-1-v041610.2_Myers_H1-hESC	 Egr-1-v041610.2 Myers H1-hESC 1, #0,	 Egr-1-v041610.2 Myers H1-hESC 1, #0, rc
ELF1--SC-631-v041610.1_Myers_GM12878	 ELF1--SC-631-v041610.1 Myers GM12878	 ELF1--SC-631-v041610.1 Myers GM12878
ELF1--SC-631-v041610.1_Myers_HepG2	 ELF1--SC-631-v041610.1 Myers HepG2	 ELF1--SC-631-v041610.1 Myers HepG2 :
ELF1--SC-631-v041610.2_Myers_K562	 ELF1--SC-631-v041610.2 Myers K562 :	 ELF1--SC-631-v041610.2 Myers K562 1
ERalpha-a-v041610.2_Myers_ECC-1-Genistein-100nM	 ERalpha-a-v041610.2 Myers ECC-1-Genistein	 ERalpha-a-v041610.2 Myers ECC-1-Genistein
ERalpha-a-v041610.2_Myers_T-47D-Estradiol-10nM	 ERalpha-a-v041610.2 Myers T-47D-Estradiol	 ERalpha-a-v041610.2 Myers T-47D-Estradiol
ERalpha-a-v041610.2_Myers_T-47D-Genistein-100nM	 ERalpha-a-v041610.2 Myers T-47D-Genistein	 ERalpha-a-v041610.2 Myers T-47D-Genistein
ERRA_Snyder_HepG2-forskolin	 ERRA Snyder HepG2-forskolin 1, #	 ERRA Snyder HepG2-forskolin 1, #c
ETS1-PCR1x_Myers_GM12878	 ETS1-PCR1x Myers GM12878 1, #0,	 ETS1-PCR1x Myers GM12878 1, #0, r
FOS-eGFP_White_K562	 FOS-eGFP White K562 1, #0,	 FOS-eGFP White K562 1, #0, rc
FOSL1--SC-183-v041610.1_Myers_K562	 FOSL1--SC-183-v041610.1 Myers K562 1,	 FOSL1--SC-183-v041610.1 Myers K562 1, :
FOSL2-v041610.1_Myers_HepG2	 FOSL2-v041610.1 Myers HepG2 1, :	 FOSL2-v041610.1 Myers HepG2 1, #

FOXA1--SC-101058-v041610.1_Myers_HepG2	GTAAACA <small>SC-101058-v041610.1 Myers HepG2</small>	TGTTTAC <small>SC-101058-v041610.1 Myers HepG2</small>
FOXA1--SC-6553-v041610.1_Myers_HepG2	TGTTTAC <small>SC-6553-v041610.1 Myers HepG2</small>	GTAAACA <small>SC-6553-v041610.1 Myers HepG2</small>
FOXA2--SC-6554-v041610.1_Myers_HepG2	TGTTTAC <small>SC-6554-v041610.1 Myers HepG2</small>	GTAAACA <small>SC-6554-v041610.1 Myers HepG2</small>
GABP-PCR1x_Myers_HeLa-S3	CTTCCGG <small>GABP-PCR1x Myers HeLa-S3 1, #C</small>	CCGGAAG <small>GABP-PCR1x Myers HeLa-S3 1, #0.</small>
GABP-PCR2x_Myers_GM12878	CTTCCGG <small>GABP-PCR2x Myers GM12878 1, #0.</small>	CCGGAAGT <small>GABP-PCR2x Myers GM12878 1, #0, r</small>
GABP-PCR2x_Myers_HepG2	CTTCCG <small>GABP-PCR2x Myers HepG2 1, #</small>	CGGAAG <small>GABP-PCR2x Myers HepG2 1, #</small>
GABP-v041610.1_Myers_K562	CTTCCGG <small>GABP-v041610.1 Myers K562 1, #</small>	CCGGAAG <small>GABP-v041610.1 Myers K562 1, #0</small>
GATA-1_Snyder_K562b	AGATAA <small>GATA-1 Snyder K562b 1, #0</small>	TTATCT <small>GATA-1 Snyder K562b 1, #0.</small>
GATA2-eGFP_White_K562	AGATAA <small>GATA2-eGFP White K562 1, #</small>	TTATCT <small>GATA2-eGFP White K562 1, #0</small>
GATA2--SC-267-PCR1x_Myers_K562	AGATAA <small>SC-267-PCR1x Myers K562</small>	TTATCT <small>SC-267-PCR1x Myers K562 :</small>
GATA-2_Snyder_K562b	AGATAA <small>GATA-2 Snyder K562b 1, #0</small>	TTATCT <small>GATA-2 Snyder K562b 1, #0.</small>
GATA3--SC-268-v041610.2_Myers_T-47D-DMSO-0.02pct	TTATCT <small>GATA3-v041610.2 Myers T-47D-DMSO</small>	AGATAA <small>GATA3-v041610.2 Myers T-47D-DMSO</small>
GR-PCR1x_Myers_A549-DEX-50nM	GAACA <small>GR1x Myers A549-DEX-50nM</small>	TGTTCC <small>GR1x Myers A549-DEX-50nM 1</small>
GR-PCR1x_Myers_A549-DEX-5nM	TGTTCC <small>GR1x Myers A549-DEX-5nM 1</small>	GAACA <small>GR1x Myers A549-DEX-5nM 1.</small>
GR-PCR2x_Myers_A549-DEX-100nM	GAACA <small>GR2x Myers A549-DEX-100nM</small>	TGTTCC <small>GR2x Myers A549-DEX-100nM :</small>
HNF4A--SC-8987-v041610.1_Myers_HepG2	TGGACTTTG <small>HNF4A--SC-8987-v041610.1 Myers HepG2 1, #0.</small>	CAAAGTCCA <small>HNF4A--SC-8987-v041610.1 Myers HepG2 1, #0, rc</small>
HNF4A_Snyder_HepG2-forskolin	TGGACTTTG <small>HNF4A Snyder HepG2-forskolin 1, #0.</small>	CAAAGTCCA <small>HNF4A Snyder HepG2-forskolin 1, #0, rc</small>
HNF4G--SC-6558-v041610.1_Myers_HepG2	TGGACTTTG <small>HNF4G--SC-6558-v041610.1 Myers HepG2 1, #0.</small>	CAAAGTCCA <small>HNF4G--SC-6558-v041610.1 Myers HepG2 1, #0, rc</small>

HSF1_Snyder_HepG2-forskolin	 TTCTGGAA TTC HSF1 Snyder HepG2-forskolin 1, #0.	 GAA TTCcAGAA HSF1 Snyder HepG2-forskolin 1, #0, rc
JunB-eGFP_White_K562	 TGAgTCAI JunB-eGFP White K562 1, #0.	 ATGAcTCA JunB-eGFP White K562 1, #0, rc
JunD-eGFP_White_K562	 ATGAcTCA JunD-eGFP White K562 1, #0.	 TGAgTCAI JunD-eGFP White K562 1, #0, rc
JunD-PCR1x_Myers_HepG2	 TGA CTCA JunD-PCR1x Myers HepG2 1, #0.	 TGAGTCA JunD-PCR1x Myers HepG2 1, #0, rc
JunD_Snyder_GM12878	 TGA CTCA JunD Snyder GM12878 1, #0.	 TGAGTCA JunD Snyder GM12878 1, #0, rc
JunD_Snyder_HeLa-S3	 ATGAcTCA JunD Snyder HeLa-S3 1, #0.	 TGAgTCAI JunD Snyder HeLa-S3 1, #0, rc
JunD-v041610.2_Myers_H1-hESC	 TGAGTCAI JunD-v041610.2 Myers H1-hESC 1, #0	 ATGACTCA JunD-v041610.2 Myers H1-hESC 1, #0, rc
Max_Snyder_GM12878	 CACGTG Max Snyder GM12878 1, #0	 CACGTG Max Snyder GM12878 1, #0, rc
Max_Snyder_HeLa-S3	 CAcGTG Max Snyder HeLa-S3 1, #0.	 CACGTG Max Snyder HeLa-S3 1, #0, rc
Max_Snyder_HUVEC	 CAcGTG Max Snyder HUVEC 1, #0.	 CACGTG Max Snyder HUVEC 1, #0, rc
Max_Snyder_K562	 CACGTG Max Snyder K562 1, #0.	 CACGTG Max Snyder K562 1, #0, rc
Max-v041610.2_Myers_K562	 CACGTG Max-v041610.2 Myers K562 1.	 CAcGTG Max-v041610.2 Myers K562 1, #
MEF2A-PCR1x_Myers_GM12878	 CAA AAATAG MEF2A-PCR1x Myers GM12878 1, #0.	 CTATTT TTA MEF2A-PCR1x Myers GM12878 1, #0, rc
MEF2C--SC-13268-v041610.1_Myers_GM12878	 CTATTT TTA MEF2C--SC-13268-v041610.1 Myers GM12878 1.	 CAA AAATAG MEF2C--SC-13268-v041610.1 Myers GM12878 1
NF-E2_Snyder_K562	 GCTGAGTCAI NF-E2 Snyder K562 1, #0.	 ATGACTCAGC NF-E2 Snyder K562 1, #0, rc
NFKB_Snyder_GM10847	 GGAAA TCCC NFKB Snyder GM10847 1, #0.	 GGG GATTCC NFKB Snyder GM10847 1, #0, rc
NFKB_Snyder_GM12878	 GGAAA TCCCC NFKB Snyder GM12878 1, #0.	 GGGGATTCC NFKB Snyder GM12878 1, #0, rc
NFKB_Snyder_GM12878-TNFa	 GAAA TCCC NFKB Snyder GM12878-TNFa 1, #0.	 GGGGATTCC NFKB Snyder GM12878-TNFa 1, #0, rc
NFKB_Snyder_GM12891	 GGAAA TCCCC NFKB Snyder GM12891 1, #0.	 GGGGATTCC NFKB Snyder GM12891 1, #0, rc

NFKB_Snyder_GM12892	 NFKB Snyder GM12892 1, #0,	 NFKB Snyder GM12892 1, #0, rc
NFKB_Snyder_GM15510	 NFKB Snyder GM15510 1, #0,	 NFKB Snyder GM15510 1, #0, rc
NFKB_Snyder_GM18505	 NFKB Snyder GM18505 1, #0,	 NFKB Snyder GM18505 1, #0, rc
NFKB_Snyder_GM18526	 NFKB Snyder GM18526 1, #0,	 NFKB Snyder GM18526 1, #0, rc
NFKB_Snyder_GM18951	 NFKB Snyder GM18951 1, #0,	 NFKB Snyder GM18951 1, #0, rc
NFKB_Snyder_GM19099	 NFKB Snyder GM19099 1, #0,	 NFKB Snyder GM19099 1, #0, rc
NFKB_Snyder_GM19193	 NFKB Snyder GM19193 1, #0,	 NFKB Snyder GM19193 1, #0, rc
Nrf1_Snyder_HeLa-S3	 Nrf1 Snyder HeLa-S3 1, #0,	 Nrf1 Snyder HeLa-S3 1, #0, rc
NRSF-PCR1x_Myers_H1-hESC	 NRSF-PCR1x Myers H1-hESC 1, #0,	 NRSF-PCR1x Myers H1-hESC 1, #0, rc
NRSF-PCR1x_Myers_HeLa-S3	 NRSF-PCR1x Myers HeLa-S3 1, #0,	 NRSF-PCR1x Myers HeLa-S3 1, #0, rc
NRSF-PCR2x_Myers_GM12878	 NRSF-PCR2x Myers GM12878 1, #0,	 NRSF-PCR2x Myers GM12878 1, #0, rc
NRSF-PCR2x_Myers_HepG2	 NRSF-PCR2x Myers HepG2 1, #0,	 NRSF-PCR2x Myers HepG2 1, #0, rc
NRSF-PCR2x_Myers_PANC-1	 NRSF-PCR2x Myers PANC-1 1, #0,	 NRSF-PCR2x Myers PANC-1 1, #0, rc
NRSF-PCR2x_Myers_SK-N-SH	 NRSF-PCR2x Myers SK-N-SH 1, #0,	 NRSF-PCR2x Myers SK-N-SH 1, #0, rc
NRSF-PCR2x_Myers_U87	 NRSF-PCR2x Myers U87 1, #0,	 NRSF-PCR2x Myers U87 1, #0, rc
NRSF-v041610.2_Myers_H1-hESC	 NRSF-v041610.2 Myers H1-hESC 1, #0,	 NRSF-v041610.2 Myers H1-hESC 1, #0, rc
NRSF-v041610.2_Myers_K562	 NRSF-v041610.2 Myers K562 1, #0,	 NRSF-v041610.2 Myers K562 1, #0, r
PAX5-C20-PCR1x_Myers_GM12878	 C5-C20-PCR1x Myers GM12878 1,	 5-C20-PCR1x Myers GM12878 1, r
PAX5-C20-v041610.1_Myers_GM12891	 C20-v041610.1 Myers GM12891	 C20-v041610.1 Myers GM12891 1

PAX5-C20- v041610.1_Myers_GM12892	GCGTGAC C20-v041610.1 Myers GM12892	GTCACGc C20-v041610.1 Myers GM12892 1
POU2F2- PCR1x_Myers_GM12878	ATTTGCAT POU2F2-PCR1x Myers GM12878 1, #0	ATGCAAAT POU2F2-PCR1x Myers GM12878 1, #0.
POU2F2- PCR1x_Myers_GM12891	TATGCAAAT POU2F2-PCR1x Myers GM12891 1, #0.	ATTTGCAT_A POU2F2-PCR1x Myers GM12891 1, #0, rc
POU5F1--SC-9081- v041610.2_Myers_H1-hESC	TGCAT_AAcAA_A POU5F1--SC-9081-v041610.2 Myers H1-hESC 1, #0	TTGT_TATGCA POU5F1--SC-9081-v041610.2 Myers H1-hESC 1, #0.
PU.1- PCR1x_Myers_GM12878	AGGAAGTG PU.1-PCR1x Myers GM12878 1, #0.	CAcTTCC_T PU.1-PCR1x Myers GM12878 1, #0, r.
PU.1- PCR1x_Myers_GM12891	GAAGGAAGTG PU.1-PCR1x Myers GM12891 1, #0.	CAcTTCC_{TC} PU.1-PCR1x Myers GM12891 1, #0, rc
PU.1-PCR1x_Myers_K562	GAAGGAAGTG PU.1-PCR1x Myers K562 1, #0.	CAcTTCC_{TC} PU.1-PCR1x Myers K562 1, #0, rc
RXRA- PCR1x_Myers_HepG2	AAGGTCA RXRA-PCR1x Myers HepG2 1, #0.	TGACCT_T RXRA-PCR1x Myers HepG2 1, #0.
RXRA- v041610.2_Myers_H1-hESC	TGACCT_T v041610.2 Myers H1-hESC :	AGGTCA v041610.2 Myers H1-hESC 1
SREBP1_Snyder_HepG2- pravastatin	TCAC_AcCA_T SREBP1 Snyder HepG2-pravastatin 1, #0.	TGg_AGTGA_T SREBP1 Snyder HepG2-pravastatin 1, #0, rc
SRF-PCR1x_Myers_H1- hESC	CC_TTAT_ATGG SRF-PCR1x Myers H1-hESC 1, #0.	CC_ATATAAGG SRF-PCR1x Myers H1-hESC 1, #0, rc
SRF- PCR2x_Myers_GM12878	CC_ATATAAGG SRF-PCR2x Myers GM12878 1, #0.	CC_TTAT_ATGG SRF-PCR2x Myers GM12878 1, #0, rc
SRF- v041610.1_Myers_GM12878	CC_TTAT_ATGG SRF-v041610.1 Myers GM12878 1, #0.	CC_ATATAAGG SRF-v041610.1 Myers GM12878 1, #0, rc
SRF- v041610.1_Myers_HepG2	CA_ATATAAGG SRF-v041610.1 Myers HepG2 1, #0.	CC_TTAT_ATG SRF-v041610.1 Myers HepG2 1, #0, rc
SRF- v041610.1_Myers_K562	CC_TTAT_ATGG SRF-v041610.1 Myers K562 1, #0.	CC_ATATAAGG SRF-v041610.1 Myers K562 1, #0, rc
STAT1_Snyder_HeLa-S3- IFNg30	TTCC_TGGAA STAT1 Snyder HeLa-S3-IFNg30 1, #0.	TTCCAGGAA STAT1 Snyder HeLa-S3-IFNg30 1, #0, rc
STAT1_Snyder_K562- IFNa30	TTCC_CGGAA STAT1 Snyder K562-IFNa30 1, #0.	TTCC_CGGGAA STAT1 Snyder K562-IFNa30 1, #0, rc
STAT1_Snyder_K562- IFNa6h	A_AGAACT_T STAT1 Snyder K562-IFNa6h 1, #0.	AGTTTC_T STAT1 Snyder K562-IFNa6h 1, #0, rc
STAT1_Snyder_K562- IFNg30	TTCC_CGGAA STAT1 Snyder K562-IFNg30 1, #0.	TTCC_TGGAA STAT1 Snyder K562-IFNg30 1, #0, rc

STAT1_Snyder_K562-IFNg6h		
TCF12-PCR1x_Myers_GM12878		
TCF4_Snyder_HCT-116		
USF-1-PCR1x_Myers_A549-EtOH-0.02pct		
USF-1-PCR1x_Myers_H1-hESC		
USF-1-PCR1x_Myers_HepG2		
USF-1-PCR2x_Myers_GM12878		
USF1--SC-8983-v041610.2_Myers_SK-N-SH-RA		
USF-1-v041610.1_Myers_K562		
YY1--SC-281-v041610.1_Myers_GM12891		
YY1--SC-281-v041610.2_Myers_H1-hESC		
YY1--SC-281-v041610.2_Myers_SK-N-SH-RA		
YY1_Snyder_GM12878		
YY1_Snyder_K562b		
YY1_Snyder_NT2-D1		
YY1-v041610.1_Myers_GM12892		
YY1-v041610.1_Myers_K562		
YY1-v041610.2_Myers_K562		

ZEB1--SC-25388-
v041610.2_Myers_GM12878

CAGGTG
5388-v041610.2 Myers GM1

cACCTG
5388-v041610.2 Myers GM12