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Supplementary Materials for

Coordinated regulation of infection-related morphogenesis by the KMT2-Cre1-Hyd4 regulatory pathway to facilitate fungal infection

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Fig. S2. Growth and conidial germination assay. (A) Fungal growth and sporulation assays. (Top) Fungal growth on potato dextrose agar (PDA) plates after 10 d; (bottom) microscopic observations of conidiophores and conidia of the WT, Δ Mrkmt2, and com-kmt2 strains examined on day 10 of the corresponding PDA cultures. (B) Colony diameter of the WT, Δ Mrkmt2, and com-kmt2 strains. (C) Conidia production by the WT, Δ Mrkmt2, and com-kmt2 strains. The mutant Δ Mrkmt2 strain produces significantly less conidia than the WT strain. (D) Conidial germination rates of the WT, Δ Mrkmt2, com-kmt2, Δ Mrcre1, and Δ Mrkmt2::Cre1 strains on a hydrophobic surface in plastic plates were measured under a light microscope after incubation at 27 °C for 12 h. 100 conidia per plate were examined. (E) Microscopic observation of germ tubes at 12 h post inoculation. Data are shown as mean ±

SD of three technical replicates. Experiments were repeated three times with similar results. Single and triple asterisks represent significant differences determined by Student's *t*-test at P < 0.05 and P < 0.001, respectively.



Fig. S3. MrKMT2-mediated H3K4me3 is associated with gene activation. (A) Heatmaps of H3K4me3 states at transcriptional start site (TSS) ± 2 kb. H3K4me3 accumulates mostly near the 5'-region of genes. Red and green indicates high and low level of H3K4me3, respectively. (B) A global view of the relationship between H3K4me3 modification and gene expression. Genes were categorized into four groups based on their expression levels (high, medium, low, very low), and the levels of H3K4me3 (shown as reads density) in each gene group were analyzed. H3K4me3 levels were positively correlated with gene expression levels in the WT strain grown in the SDB and MM medium supplemented with 0.8% locust cuticle. TES, transcriptional end site.



Fig. S4. Characterization of genes transcriptionally regulated by MrKMT2-mediated H3K4me3. (A) Venn diagrams showing overlaps of downregulated (1973) or upregulated (1145) genes in Δ Mrkmt2 SDB cultures vs. WT SDB cultures [the genes considered (2722) were all H3K4me3-hypomethylated in Δ Mrkmt2 SDB cultures]; and overlaps of downregulated (1342) or upregulated (879) genes in Δ Mrkmt2 cuticle cultures vs. WT cuticle cultures [the genes considered (2987) were all H3K4me3-hypomethylated in Δ Mrkmt2 cuticle cultures]. In total, 795, 77, 405, and 94 genes were identified in the overlapping sets I, II, III, and IV, respectively. Overall, 1150 genes were identified as genes whose expression is directly modulated by MrKMT2-mediated H3K4me3. (B) Heat map showing the H3K4me3 enrichment at the promoters (TSS \pm 1 kb) of 1150 genes directly modulated by H3K4me3 (left; ChIP-seq) and their corresponding expression patterns (right; RNA-seq). (C) KOG functional classification of the overlapping group I, II, III, and IV genes.



Fig. S5. Characterization of genes directly modulated by H3K4me3 in an MrKMT2dependent manner. (**A**) Venn diagrams showing overlaps of MrKMT2-dependent upregulated (770) or downregulated (728) genes and genes directly modulated by H3K4me3 (1150). Among 770 MrKMT2-dependent upregulated genes, only 37 genes are directly modulated by H3K4me3; 184 genes are directly modulated by H3K4me3 in 728 MrKMT2-dependent downregulated genes. (**B**) Heat map showing H3K4me3 enrichment at the promoters (TSS \pm 1 kb) of 184 directly H3K4me3-modulated genes that are downregulated in an MrKMT2-dependent manner (left; ChIP-seq) and their corresponding expression patterns (right; RNA-seq).



Fig. S6. Six direct gene targets of MrKMT2-mediated H3K4me3. (**A**) A genome browser view showing H3K4me3 signals at the promoters (TSS \pm 1 kb) of the six genes, and gene expression in the WT and Δ Mrkmt2 strains grown in the SDB and MM medium supplemented with 0.8% locust cuticle. (**B**) ChIP-qPCR validation of ChIP-seq, shown as the fold-change in the signal from immunoprecipitation over the relative input DNA. (**C**) qPCR analysis of the expression levels of the six selected genes in the WT and Δ Mrkmt2 strains grown in the SDB and MM medium supplemented with 0.8% locus cuticle. Gene expression in Δ Mrkmt2 was normalized to that in WT (taken as 1.0); actin was used as a reference gene. Data are shown as mean \pm SD of three technical replicates. Experiments were repeated three times with similar results. Single, double, and triple asterisks represent significant differences determined by Student's *t*-test at *P* < 0.05, *P* < 0.01, and *P* < 0.001, respectively.



Fig. S7. Characterization of MrCre1 (EXV01725.1). (A) Domain structures of MrCre1. MrCre1 was predicted to contain two Cys2His2 zinc-finger domains, a histidine-rich region (HHHHQHHHHHHQ), an acidic-like region (EDHDD), a conserved region, and a repressing region. (B) The phylogenetic relationship of MrCre1 and its homologs shows that MrCre1 shares the highest homology with the *Beauveria bassiana* Cre1 sequence, and is also similar to the Cre1 sequences in *Trichoderma reesei*, *Neurospora crassa*, and *Aspergillus nidulans*. The amino acid sequences were aligned using ClustalW, and a neighbor-joining tree was generated with 1000 bootstrap replicates using the program MEGA v7.0. Bootstrap values (percentages of 1000 bootstrapped tree replications) greater than 66 are displayed at the nodes.



Fig. S8. Overexpression of *Mrcre1* in Δ Mrkmt2 rescues sporulation defects.(A) Fungal growth assay. The fungal strains were grown on PDA plates for 12 d. (B) Comparison of conidia production of the WT and mutants after 12-d growth on PDA. Data are shown as mean \pm SD of three technical replicates. Experiments were repeated three times with similar results. Columns labeled with different lowercase letters showed significant differences (Student's *t*-test at *P* < 0.05).



Fig. S9. Global transcriptional analysis of WT and Δ Mrcre1 strains grown in the SDB and MM medium supplemented with 0.8% locust cuticle. (A) Schematic diagram showing the number of differentially expressed genes (DEGs) after cuticle induction in an MrCre1dependent manner. Based on the comparison of FC values (fold-change values of gene expression level in the cuticle-induced culture relative to the SDB culture) between the WT and Δ Mrcre1 strains, MrCre1-dependent genes were identified when the rate of FC increase or decrease in the Δ Mrcre1 strains was less than 50% that of the WT; the remaining genes were classified as MrCre1-independent. (B) KOG functional classification of MrCre1dependent upregulated and downregulated genes.



X797_006423 X797_006424 X797_006425 X797_006426 X797_006427 X797_006428 X797_006429 X797_006430 X797_006431

Fig. S10. Gene tagging and ChIP-seq of Cre1:5myc. (A) Construction of Cre1:5myc in *M. robertsii* ARSEF 2575. Gene tagging was accomplished by inserting a sequence encoding $5\times$ myc tag at the native genomic locus of the *cre1* gene in the WT strain. The plasmid pBarGFP-Mrcre1:5myc containing two regions identical with the *Mrcre1* reading frame and downstream sequences was used for $5\times$ myc tag insertion by homologous recombination through a double crossover event. (B) Western blot demonstrating the production of $5\times$ myc tagged Cre1. Cre1 C-terminally $5\times$ myc-tagged was successfully detected in the Cre1:5myc strain using an anti-myc antibody. The α -tubulin antibody was used to detect α -tubulin as a positive control. The blots are representative of two replicates. (C) Representative genome browser view shows enrichment of Cre1:5myc binding signals from ChIP-seq data.



Fig. S11. The other five targets of the transcription factor MrCre1. Genes encoding GPIanchored protein (*gpi*), MIP family transporter (*mip*), GH88 glycosidase (*gh88*), acyl-CoA dehydrogenase (*acdh*), and catalase C (*catC*) are the direct targets of the transcription factor MrCre1. (**A**) ChIP with quantitative PCR (ChIP-qPCR) validation of MrCre1 binding to the promoters of *gpi*, *mip*, *gh88*, *acdh*, and *catC* genes in the Cre1:5myc strain, shown as a foldenrichment of the signal from immunoprecipitation over the relative input DNA. WT was used as the negative control. (**B**) qPCR analysis of the *gpi*, *mip*, *gh88*, *acdh*, and *catC* gene expression in different strains grown in the MM medium supplemented with 0.8% locust cuticle; actin was used as a reference gene. Data are shown as mean \pm SD of three technical replicates. Double and triple asterisks represent significant differences compared to that in WT determined by Student's *t*-test at *P* < 0.01 and *P* < 0.001, respectively. Experiments were repeated three times with similar results.



Fig. S12. Effects of deletion of each Cre1 direct target gene on fungal growth, conidiation, and virulence. (A) The fungal strains were grown on PDA plates for 12 d and colony morphology was observed. (B) Comparison of conidia production of the WT and mutants after 12-d growth on PDA. Data are shown as mean \pm SD of three technical replicates. Experiments were repeated three times with similar results. Columns labeled with double asterisks represent significant differences (Student's *t*-test at *P* < 0.01) compared with the WT. (C) Survival of *A. stephensi* female adults following topical application with conidial suspensions (1 × 10⁷ conidia/mL) of WT, Δ Mrgpi, Δ Mrmip, Δ Mrgh88, Δ Mracdh, and Δ MrcatC strains is shown. Control mosquitoes were treated with 0.01% Triton X-100. Each treatment was replicated three times, with 50 mosquitoes per replicate. Data are shown as mean \pm SD of three technical replicates. Experiments were repeated two times with similar results.

Supplementary Table Table S1. Primers used in this study.

Primers	5'-3' sequences	Applification
Mrkmt2-LF	AGCACTATCTGAGACCTTCACGTA	construction of plasmids
Mrkmt2-LR	GCGGGTAGATCCTCATTCACT	for gene deletion
Mrkmt2-RF	GACCATTCGCTATCGTGACTCTAA	8
Mrkmt2-RR	GTCCCAATCCTCGGGCTAT	
Mrcre1-LF	GGAGTAGGAGATGACGACAAGG	
Mrcre1-LR	AAGGCAGCGACGTTCAGATA	
Mrcre1-RF	GGATACAGCAACAGTGGCAGA	
Mrcre1-RR	CCAGGCGAGACAATCAGTTG	
Mrmip-LF	GTTGGTGGGTGTTGGTGGTA	
Mrmip-LR	CCGATGCCGATTACTTACGC	
Mrmip-RF	TGCCCGAAACGCAGTCA	
Mrmip-RR	GCAGAGGAAACTACCGCTGTTA	
Mrhvd4-LF	GATTTCCTAGCATTCCCGCT	
Mrhvd4-LR	TGAGAGAATGTTGCTGTTGTGAG	
Mrhvd4-RF	GGAATTGTTGGAGAAGCTAGTCAG	
Mrhvd4-RR	GTTCGTCATTATCCGATGAGTGTA	
MrcatC-LF	TGTGCTTTCCTACCTGCTGTG	
MrcatC-LR	ACCCTCCCGATACATCCGA	
MrcatC-RF	GGATGAGTTCAGGACAGGAGGA	
MrcatC-RR	ATCTCCGTTGTTGAAATTAGCG	
Mracdh-LF	TTCCCACTGTATTGTTGTTCCAC	
Mracdh-LR	TCCCGACTAAAGTAGTTGATTGC	
Mracdh-RF	TGTTGGTGTAAAGAGGGGTCG	
Mracdh-RR	AGGGCGTGGAGGAGAATAGA	
Mrgpi-LF	CGAAGACTTGGCTGACTGGA	
Mrgpi-LR	GAGTGGCCAATACTGGCG	
Mrgpi-RF	GGAGTTAATACTTGGACTGGCATAGA	
Mrgpi-RR	ACTACAGCCTTGCTTAGGTTCGT	
Mrgh88-LF	AGGACTTGAGCGCCCAGTAC	
Mrgh88-LR	AAGGGCGGATGCACAACTA	
Mrgh88-RF	TGCTGTATTTCGGATGCCA	
Mrgh88-RR	TCGCCATAGTCCCACCACT	
com-kmt2-F	AGCACTATCTGAGACCTTCACGTA	construction of plasmids
com-kmt2-R	CGTCAATATGAAGTGATGACGGT	for gene
com-cre1-F	GGAGTAGGAGATGACGACAAGG	complementation
com-cre1-R	TTGTCGGCGTGCTATTATTCC	
overexpression-cre1-F	ACATGCAACGGTCACAGTCTG	construction of Cre1
overexpression-cre1-R	AACCCGGTCCATCAGATCG	overexpression plasmid
Cre1:5myc-LF	ACATGCAACGGTCACAGTCTG	construction of
Cre1:5myc-LR	AACCCGGTCCATCAGATCG	Cre1:5myc plasmid
Cre1:5myc-RF	GACAAGATTCGACCAAGTCCAC	
Cre1:5myc-RR	CCTGCGATTTGATGTTTCTCC	
Mrkmt2-qPCR-F	TCTGAACTCATTCGGTACCCAA	qPCR
Mrkmt2-qPCR-R	TCTGTATATGTCGGTTTGGAACTCT	_
Mrcre1-qPCR-F	TCGCTTCACCATAACACGACA	
Mrcre1-qPCR-R	GTCAGGGACATTCCATTGCTC	
Mrmip-qPCR-F	TGCCGTCTACTGGATCCTCAA	
Mrmip-qPCR-R	TGCGGTGGTTCTTCTGGTG	
Mrhyd4-qPCR-F	AGCACAAGAAGCCTCACCCT	

Mrhyd4-qPCR-RAGAAGGCCGTCGAGGACAMrcatC-qPCR-FAATCTTGACCCGCATCTCGMrcatC-qPCR-FCAGGAGGCCGACTTGAAACTMracdh-qPCR-FCAGGAGGCCGACTTGAAACTMracdh-qPCR-FCCATTGCCACCAAACAGTAAMrgpi-qPCR-FCCTGTGCCGACATCACCTACMrgbj-qPCR-FCCGGGGCTTGTCCTTTTCMrgb88-qPCR-FCGGGATGCTCGTGATTTCCMrm24-qPCR-FGCTGGTGAATCTGGTGCCAMrm24-qPCR-FCCTTGCGCGACGGCTCGGGTCGMrm24-qPCR-FCCTTCCAGGACGGCCCTGCMrm24-qPCR-FCCTTCCAGGACGGCCTGGATGMrm24-qPCR-FCCTTCCAGGACGGCCTGGATGMrmp11-qPCR-FCCTTACAACAAGGCGTAGAGMrmp11-qPCR-FCCTTACAACAAGGCGACACGGGCMrmp11-qPCR-FCCTACCATCCAGGAAGGCGMrmp11-qPCR-RGACCGCTAGGCAGAGCACACMrf1-qPCR-RGACCGTAGGCAGAGGGCAACACMrf1-qPCR-RGACCGTAGGCAGAGGTCCTGGGAMrf1-qPCR-RCCAGATAGCCGATGAGTGCCGTTAMrf1-qPCR-RCCAGATAGCCGATCAGGCAACACMrf1-qPCR-RCCCAGAACATCATTCCAGCMrgd-qPCR-FCCCAGAACACCATCATTCCAGCMrgd-qPCR-FCCCCCATCAACCCCAAGTMrf1-qPCR-RCCACCAGAGGCGTCAAGTCMrgd-qPCR-FCCCCCATCAACCCCAAGTMrei1-QPCR-FCCCCCATCAACCCCAAGTMracin-qPCR-RACAATGCGGGCAGTCAAGTCMracin-qPCR-FGCCCCCATCAACCCCAAGTMracin-qPCR-FCCCCCCGATCGGACTTGCMracin-QPCR-FCCCCCCGATCGGACCATMracin-QPCR-FCCCCCCGATCGGACCATMracin-QPCR-FCCCCCCGATCGGACCTMrmip-ChIP qPCR-FGCCCCCCGATCGGCCCGAAGCACMracin-ChIP qPCR-F
MrcatC-qPCR-FAATCTTGACCGCCATCTCGMrcatC-qPCR-RTGAATACAAAGTCTTGCACGCCMrcatC-qPCR-RCCATTGCCACCACATGACCTMracdh-qPCR-FCCCATTGCCACCAAACAGTAAMrgpi-qPCR-FCCCTGTGCCGACATCACCTACMrgpi-qPCR-FCCGGGATGCTCGTGATTCCMrgbi-qPCR-RCATAGCACAACGCCAGGGTMrm24-qPCR-FCGGGGATGCTCGTGATTTCCMrm24-qPCR-FGCTGGGAATCTGGTGCCAMrm24-qPCR-FCATCGCAGGACGCCGCACCTMrs28-qPCR-FCATCCTCGAGCACCGCTACTMrs28-qPCR-FCATCTCCGAGCACCGCTACTMrs28-qPCR-FCATCCTCCAACAAGGCGGTAGAGMrmp11-qPCR-FCCTTACAACAAGGCGGTAGAGMrmp11-qPCR-FCCTTACAACAAGGCGGTAGAGMrms4-qPCR-RGACCGCTAGCCAACAATACAATCGMrmp11-qPCR-FCCACCACAAAGCCGAACACMrm11-qPCR-FCAAGGTCACCAACAATACAATCGMrm11-qPCR-RGACATTTTGAACCGGCAACACMrm11-qPCR-RCCCAGAACATCATTCCCAGCMrgpd-qPCR-FCCCAGAACACATCATCCCAGCMrgpd-qPCR-FCCCAGAACACATCATCCCAGCMrgpd-qPCR-FCCCAGAACACATCATCCCAGCMrgpd-qPCR-FCCCAGAACACATCATCCCAGCMrgpd-qPCR-FGCCCCCATCAACCCCAAGTMrce1-ChIP qPCR-RTCCATCCAGCGGCAGCAACACMrmip-ChIP qPCR-RACGACCAGAGGACTCTGAAAGAGMrmip-ChIP qPCR-RACGACCAGAGGACTCCGAACACMrmip-ChIP qPCR-RACGACCAGAGGACTCTGGCAACACCTMrmip-ChIP qPCR-RACGACCAGAGGACTCTGGCAACACACTMrmip-ChIP qPCR-RACGACCAGAGCACTCATCCGAACACATMrmip-ChIP qPCR-RACGACCAGGGTCCGGGCACATMrmip-ChIP qPCR-RCCGACCGGTGGGGCCTCGGACACA
MrcatC-qPCR-RTGAATACAAAGTCTTGCACGCCMracdh-qPCR-FCCAGGAGGCCGACTTGCACACGAAAMrgpi-qPCR-FCCTGTGCCGACAAACAGTAAMrgpi-qPCR-FCCGGGGCTTGTCCTTTTCMrgb8-qPCR-FCGGGATGCTCGTGATTCCMrgb8-qPCR-FCGGGATGCTGGATTTCCMrm24-qPCR-FGCTGGTGAATCTGGTGCCAMrm24-qPCR-FCATAGCAAACGCCAGGGTMrm24-qPCR-FCATCCTCGAGCACCGCTACTMrs28-qPCR-FCATCCTCGAGGACGTCTGGATGMrs28-qPCR-FCATCCTCGAGCACAGGTCCTGGATGMrmp11-qPCR-FCCTTACAACAAGAGCGTACGAGGMrmp11-qPCR-RCTGACGACAAAGCGCGAACACMrgsA-qPCR-FACCCTCCATCTCAGGAAAGCAMrgsA-qPCR-FCCCCCCATCTCAGGAAAGCAMrgsA-qPCR-FCCCCCATCTCAGGAAAGCAMrgsA-qPCR-FCCCCCATCTCAGGAAAGCAMrgsA-qPCR-FCACGCTAGGCAGACTTAGGAGMrdf1-qPCR-RGACGCCAACACAATACAATCGMrf1-qPCR-FAGATAGCCGATGAGTGCCGTTAMrf1-qPCR-FAGATAGCCGATGAGTGCCGTTAMrf1-qPCR-FCCCAGAACATCATCCCCAGCMrf1-qPCR-FCCCAGACATCATCCCCAGCMrgd-qPCR-FCCCCAGACCTCATCCCCAGCMrgd-qPCR-FCCCCCGGCTTTGAGACTAACACTMrcein-qPCR-RTCAGCAAGGCGCTAAAGAGMrcein-qPCR-RACGACCAGAGGCGTAAAGAGMrcein-QPCR-RACGACCAGAGGCGTCAAAGCAMrmip-ChIP qPCR-RAGCACCAGGAGTGGGAGACAMrmip-ChIP qPCR-RAGCACCAGGAGTGCGGGACAAMrmip-ChIP qPCR-RAGCACCCCCGCGAGCCAACCCTMrmip-ChIP qPCR-RAGCACCCCCGCGAGGCACACCCTMrmip-ChIP qPCR-RAGCACCCCCCGGAGCCAAACCCCTGTMracd-ChIP qPCR-RCCCC
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Mrgh88-qPCR-RCATAGCACAACGCCAGGGTMrm24-qPCR-FGCTGGTGGAATCTGGTGCCAMrm24-qPCR-RAACTGACGGAGGTCCGGTCGMrs28-qPCR-RCATCCTCGAGGCACCGCTACTMrs28-qPCR-RAAGTGGACGAGGTCCTGGATGMrmp11-qPCR-FCCTTACAACAAGAGTATCGAGGGCMrmg11-qPCR-RCTGACGACAAGGCGTAGGAGAMrrgsA-qPCR-RGACCGCTCAGCCAGACATACGGAGAMrrgsA-qPCR-RGACCGCTAGGCAGACTTAGGAGMrrgsA-qPCR-RGACCGCTAGGCAGACTTAGGAGMrrtfB-qPCR-FCAAGGTCACCAACAATACAATCGMraffB-qPCR-FCAAGGTCACCAACAATACAATCGMrrt1-qPCR-RGCACATTTGAAGCGGCAACACMrt1-qPCR-RCCCAGATAGATAATCGTCGTGGCMrgpd-qPCR-RTCAATGCGGGCAGTCAAGTCMrgpd-qPCR-RTCAATGCGGGCAGTCAAGTCMractin-qPCR-RACGACCAAGGCGTAAAGAGMrrip-ChIP qPCR-RACGACCAGGGGTAAAGAGGMrrip-ChIP qPCR-RGCACCAAGAGCGGACTCCGAATAMrmip-ChIP qPCR-RGCACCAAGAGCCTCACACCTMryd4-ChIP qPCR-RACGACAAGAGCCTCACCCTMryd4-ChIP qPCR-RACCCTCCCGAAACATCCGAMrcatC-ChIP qPCR-RACCCTCCCGGAAGCTATGGMrach-ChIP qPCR-RCCGGGGCGCGGGAGCAAAGCACCACCTMrgb88-ChIP qPCR-RGCAACCGTCTAGCCAGGAAGCAACAACAATMrgb88-ChIP qPCR-RGCAACCGTGTAGGCAAGCAACCAAGAGGMrgb88-ChIP qPCR-RGCGGTGGACAACCCCTGTMrgb88-ChIP qPCR-RGCTGGTGAATCTGGTGCCAMrgb88-ChIP qPCR-FGCTGGTGAATCTGGTGCCAMrgb88-ChIP qPCR-FGCTGGTGAATCTGGTGCCAMrgb88-ChIP qPCR-FGCTGGTGAATCTGGTCGCCAMrgb88-ChIP qPCR-FGCTGGTGGAATCTGGTCGCCAMr24-
Mrm24-qPCR-FGCTGGTGAATCTGGTGCCAMrm24-qPCR-RAACTGACGGAGGTTCGGTCTGMrs28-qPCR-RAAGTGGACGAGGACCGCTACTMrs28-qPCR-FCATCCTCGAGCACAGGTCTGGATGMrmp11-qPCR-FCCTTACAACAAGAGTATCGAGGGCMrmp11-qPCR-FCCTTACAACAAGAGCAGAGMrrgsA-qPCR-FACCCTCCATCTCAGGAAAGCAMrrgsA-qPCR-FCACCGCTAGGCAGACATAGGAGMrrgsA-qPCR-FCAACGTCACAACAATACAATCGMrrgtA-qPCR-FGACACTTTGAAGCGGCAACACMrtf1-qPCR-FAGATAGCCGATGAGTGCCGTTAMrtf1-qPCR-FAGATAGCCGATGAGTGCCGTTAMrtf1-qPCR-RCCCAGAACATCATTCCCAGCMrgpd-qPCR-FGCCCCATCAACCCCAGCMrgpd-qPCR-FGCCCCATCAACCCCAGCMrcre1-ChIP qPCR-FTCAGCGGCATCAGAGTCMrcre1-ChIP qPCR-FTCGCTGCCTT TGAGACTAACACTMrmip-ChIP qPCR-RATCCACCAGAGGGGATCAGATCGMrmip-ChIP qPCR-RACCACAAGAAGCCTCACCCTMrhyd4-ChIP qPCR-FAGCACAAGAAGCCTCACCCTMrradt-ChIP qPCR-FCGGACTCAGAGTCGGAGACAMrcratC-ChIP qPCR-RACCCTCCCGATACATCGAAGTAGGAAGAGMrcadc-ChIP qPCR-RCCGCCCCCAGACCTATTGMradh-ChIP qPCR-RCCGCCCCGAAGCAACAAGAAGCCTCACCATMradh-ChIP qPCR-RCGGAAGGCAGTCAGGCAGCAAMradh-ChIP qPCR-RCGCACCCGGAGCAAGGAGAMradh-ChIP qPCR-RGGAAGGCCAGCAGGAGGAAGAAGAGAGAAGAAGCCTCAGCTGTMradh-ChIP qPCR-RCCTTCCCCGGAAGCAACAAAAAAAAAAAAAAAAAAAAAA
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Mrs28-qPCR-FCATCCTCGAGCACCGCTACTMrs28-qPCR-RAAGTGGACGAGGTCCTGGATGMrmpl1-qPCR-FCCTTACAACAAGAGTATCGAGGGCMrmpl1-qPCR-RCTGACGACAAAGGCGGTAGAGMrrgsA-qPCR-RGACCGCTAGCAGGACTTAGGAAGCAMrgsA-qPCR-FCAAGGTCACCAACAATACAATCGMraffB-qPCR-FCAAGGTCACCAACAATACAATCGMraffB-qPCR-FGACATTTTGAAGCGGCAACACMrf1-qPCR-RGACATTTTGAAGCGGCAACACMrf1-qPCR-FCCAGAACATCATTCCCAGCMrgpd-qPCR-FCCCAGAACATCATTCCCAGCMrgpd-qPCR-FCCCAGAACATCATTCCCAGCMrgpd-qPCR-FGCTCCCATCAACCCCAAGTMrcre1-ChIP qPCR-FGCTCCCATCAACCCCAAGTMrmip-ChIP qPCR-FGGAATGCAGGGATCTGGAATAMrmip-ChIP qPCR-FAGCACCGGAGGACTGGACTGCMrwip-ChIP qPCR-RATCCACCGGATCGGACTGACTMrhyd4-ChIP qPCR-FAGCACCAGAGGCTCAACCCTMrwip-ChIP qPCR-FAGCACCAGAGAGCCTCACCCTMrwip-ChIP qPCR-FAGCACCAGGAGCTGAAGCACMrmip-ChIP qPCR-FAGCACCAGGAGCTCAACCCTMrwipi-ChIP qPCR-FAGCACCCGGAGGACAAGAGCCTCACCCTMrwipi-ChIP qPCR-FAGCACCCGCGAGGCTCACCCTMrgbi-ChIP qPCR-FCCGTATAGGGTGCGTGACTAACAATMrgpi-ChIP qPCR-FCGGAAGGCCTCAGCTGGCATMracdh-ChIP qPCR-FGCAACCCTGTAGCGAGACAAMrgbi-ShIP qPCR-FGCAACCCTGTAGGCAAGCAACCTGTMrgbi-ShIP qPCR-FGCAACCCTGCTGAGGCAAGCAACCTGTMrgbi-ShIP qPCR-FGCGGGGGAACCTGGTCGGGCCAMrgbi-ShIP qPCR-FGCGGGGGAACGCTGGTCGGTCGMrgbi-ShIP qPCR-FGCTGGGGGAACCGGGGCCACTMrgbi-ChIP qPCR-FGCGGGGCAGCCCTGT<
Mrs28-qPCR-RAAGTGGACGAGGTCCTGGATGMrmpl1-qPCR-FCCTTACAACAAGAGTATCGAGGGCMrmpl1-qPCR-RCTGACGACAAAGGCGTAGAGMrrgsA-qPCR-RCACCCTCCATCCAGGAAAGCAMrrgsA-qPCR-RGACCGCTAGGCAGACTTAGGAGMrrdB-qPCR-RGACCGCTAGGCAGACACACMrtfB-qPCR-RGACATTTTGAAGCGGCAACACMrtf1-qPCR-FAGATAGCCGATGAGTGCCGTTAMrrgd-qPCR-FCCAGAACATCATTCCCAGCMrrgh-qPCR-RCCCATAAGACATACAATCGMrgpd-qPCR-RTCAATGCGGGCAGTCAAGTCMractin-qPCR-RGCCCCATCAACCCCAAGTMrcre1-ChIP qPCR-RTCGCTGCCTT TGAGACTAACACTMrnip-ChIP qPCR-RACGACCAGGGATCTGGAAGTGMrmip-ChIP qPCR-RCTCCACCGGATCGGACTGAMrmip-ChIP qPCR-RAGCACCAGGAGCCTCACCCTMrhyd4-ChIP qPCR-RAGCACCAGGAGCCTCACCCTMrwiny-ChIP qPCR-RAGCACCAAGAAGCCTCACCCTMrradh-ChIP qPCR-RAGCACCACGGAAGCTATTGMrcatC-ChIP qPCR-RAGCACCACGGAGCGTAAGCAGMrcatC-ChIP qPCR-RCCGTATAGGCTGGCACAACACCTMradh-ChIP qPCR-RCGACCCGCGAGCGAAGCAACACCTGTMrach-ChIP qPCR-RCGAACCCTGTAGCCGAAGCAACACTMrgpi-ChIP qPCR-RCGAACCGTGCAGCAAGCAACACTMrgpi-ChIP qPCR-RGCAACCCTGTAGGCAAGCAACCTGTMrgb88-ChIP qPCR-RGCAACCGTGCCTGGGCCAMrg44-ChIP qPCR-RGCGGGGGAACCACCTGTMrgb88-ChIP qPCR-RGCTGGGGAACTGGGTCGGTCGAACACTMrgb88-ChIP qPCR-RGCTGGGGGAACCGCGGGGCCAAGACACTMrm24-ChIP qPCR-FGCTGGGGGAACCGCGGGCCAMrm24-ChIP qPCR-RACCGACCGCCCTCTMrm24-ChIP qPCR-RACCGACGGCGCCACACT<
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Mrmpl1-qPCR-RCTGACGACAAAGGCGGTAGAGMrrgsA-qPCR-FACCCCTCCATCTCAGGAAAGCAMrrgsA-qPCR-FGACCGCTAGGCAGACTTAGGAGMratfB-qPCR-FCAAGGTCACCAACAATACAATCGMratfB-qPCR-FGACATTTTGAAGCGGCAACACMrtf1-qPCR-FAGATAGCCGATGAGTGCCGTTAMrtf1-qPCR-FCCGATTAGAATAATCGTCGTGCMrgpd-qPCR-FCCCAGAACATCATTCCCAGCMrgpd-qPCR-FCCCAGAACATCATTCCCAGCMrgpd-qPCR-FGCTCCCATCAACCCCAAGTMractin-qPCR-RACGACCAGAGGCGTAAAGAGMrcre1-ChIP qPCR-FTCGCTGCCTTTGAGACTAACACTChIP qPCR-RATTCAGCAAGTGGTGAAGTCGMrmip-ChIP qPCR-FGCACCCGGATCGGACTGGTMrmip-ChIP qPCR-RATCCACCGGATCGGACTGTMrhyd4-ChIP qPCR-FCTCCACCCGCAAGAGCCTCACCCTMrwd4-ChIP qPCR-RACCCTCCCGCAAGAGCCTAACCGAMrcatC-ChIP qPCR-RACCCTCCCGCAAGCAGCATATGMracdh-ChIP qPCR-RCGCATCAGCGGGCGTGACAACAATMracdh-ChIP qPCR-RCGCATCAGCGGGCGTGACAACAATMragpi-ChIP qPCR-RCGCATCGGCATGCGAGGAGMrradh-ChIP qPCR-RGCAACCGTGTAGGCAAGCAACCTGTMragh88-ChIP qPCR-RGAGAAGTGCAAGCAACCCTGTMrgh88-ChIP qPCR-RACCGACGAGGAGCTTCGGTCTGMrgh88-ChIP qPCR-RACCGAGGAGGTCCTGGCCAMrm24-ChIP qPCR-RACCGAGGAGGTCCGGGGACACTMrgh88-ChIP qPCR-RACCGGCAGCGCCCCCGGGACACTMrgh88-ChIP qPCR-RACCGACGGGGGACACTMrgh88-ChIP qPCR-RACCGACGGGGGACCTCGGTCTGMrm24-ChIP qPCR-RACCGACGCGCACCTMrm24-ChIP qPCR-RACCGACGCGCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
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MrgsA-qPCR-RGACCGCTAGGCAGACTTAGGAGMratfB-qPCR-FCAAGGTCACCAACAATACAATCGMratfB-qPCR-RGACATTTTGAAGCGGCAACACMrtf1-qPCR-FAGATAGCCGATGAGTGCCGTTAMrtf1-qPCR-FAGATAGCCGATGAGTGCCGTGCMrgpd-qPCR-FCCGATTAGAATAATCGTCGTGCMrgpd-qPCR-FCCCAGAACATCATTCCCAGCMractin-qPCR-FGCTCCCATCAACCCCAAGTMrce1-ChIP qPCR-RACGACCAGAGGCGTAAAGAGMrce1-ChIP qPCR-RACGACCAGGGGATCTCGAATAMrmip-ChIP qPCR-RGGAATGCAGGGATCTGGAATAMrmip-ChIP qPCR-RCTCCACCGGATCGGACTGTMrhyd4-ChIP qPCR-RAGCACCAGAGGCCTCAGCCTMracth-ChIP qPCR-RCTCCCCCGGAAGCAACACACMrcatC-ChIP qPCR-RACCCTCCCGGAAGCAAGAGCAMrcatC-ChIP qPCR-RCTCCCCGGAAGCAAGAGCAAMracdh-ChIP qPCR-RCGTATAGGGTGCGTGGACTAACAATMracdh-ChIP qPCR-RCGTATAGGGTGCGTGACTAACAATMrgpi-ChIP qPCR-RCGAATGGGGGGGGGGACCAAGAAGMracdh-ChIP qPCR-RCGAATAGGGTGCGTGAAGAAGCAATMrgbi-ChIP qPCR-RGGAATGCAGGAGAGAGMrgpi-ChIP qPCR-RGGAATGCAGGAGGAGAAGCAATMrgbi-ChIP qPCR-RGGAAGGCAGCGTTCGAGCAAGAAGMrgbi-ChIP qPCR-RGAAACGGCAGCAGCAAGCAACCCTGTMrgbi-ChIP qPCR-RGAAAGTGCAAGCAAGCAACCTGTMrgb88-ChIP qPCR-RACCGGGGGACACTMrgb88-ChIP qPCR-RACCGACGGGGACACTMrgb88-ChIP qPCR-RACCGACGGGGACACTMrgb4-ChIP qPCR-RACCGACGGGGACACTMrgb4-ChIP qPCR-RAACTGACGGGGGTCGGTCTGGMra24-ChIP qPCR-RAACTGACGGGAGTCTGGTCGTGTGMrgb4-ChIP qPCR-RACCGACGGGGACACT<
MrattB-qPCR-FCAAGGTCACCAACAATACAATCGMrattB-qPCR-FGACATTTTGAAGCGGCAACACMrtf1-qPCR-FAGATAGCCGATGAGTGCCGTTAMrtf1-qPCR-FAGATAGCCGATGAGTGCCGTCAMrgpd-qPCR-FCCCAGAACATCATTCCCAGCMrgpd-qPCR-FCCCAGAACATCATTCCCAGCMractin-qPCR-FGCTCCCATCAACCCCAAGTMractin-qPCR-RACGACCAGAGGCGTAAAGAGMrcre1-ChIP qPCR-RACGACCAGAGGCGTAAAGAGMrmip-ChIP qPCR-FGGAATGCAGGGATCTGGAAGTCGMrmip-ChIP qPCR-RATCCACCGGATCGGACTGTMrhyd4-ChIP qPCR-RAGCACCAAGAAGCCTCACCCTMrhyd4-ChIP qPCR-RCTCCCCCGGATACAGCACAMrcatC-ChIP qPCR-RCCCCCCGGAAGCTAACACCGAMrcatC-ChIP qPCR-RACCCTCCCGGAAGCACAMrcatC-ChIP qPCR-RCCTCCCCGGAAGCTAACACCGAMrcatC-ChIP qPCR-RCGTATAGGGTGCGTGGCATAACAATMracdh-ChIP qPCR-RCGTATAGGGTGCGGGACTAACAATMrgpi-ChIP qPCR-RCGTATAGGGTGCGTGACTAACAATMrgpi-ChIP qPCR-RGCAACGTGTAGGCGAGCAAMracdh-ChIP qPCR-RCGTATAGGCTGCGGGACTAACAATMrgbi-ChIP qPCR-RGCAACCGTGTAGGCAGAGAGMrgbi-ChIP qPCR-RGAAAGTGCAAGCAACCCTGTMrgbi-ChIP qPCR-RGAAAGTGCAAGCAACCCTGTMrgbi-ChIP qPCR-RGCAACGGTGCTAGGGGACAAAMrgbi-ChIP qPCR-RGCGAGTGCTTCGAGAAGCAACCCTGTMrgbi-ChIP qPCR-RGCGAGTGCTTCGGGCAAMrgbi-ChIP qPCR-RGCGGGGAAGCGCTTCGGTCTGGMrgb88-ChIP qPCR-RACCGACGGGGACACTMrgb4-ChIP qPCR-RACCGACGGGGACCTCGGTCTGGMrm24-ChIP qPCR-RACCGACGGGGACACTMrgb4-ChIP qPCR-RACCGACGGGGACGCTCGGTCT
MratfB-qPCR-RGACATTTTGAAGCGGCAACACMratfB-qPCR-FAGATAGCCGATGAGTGCCGTTAMrtf1-qPCR-FAGATAGCCGATGAGTGCCGTTAMrtf1-qPCR-RCCCAGAACATCATTCCCAGCMrgpd-qPCR-FCCCAGAACATCATTCCCAGCMractin-qPCR-FGCTCCCATCAACCCCAAGTMractin-qPCR-FGCTCCCATCAACCCCAAGTMrcre1-ChIP qPCR-FTCGCTGCCTT TGAGACTAACACTChIP qPCR-RACGACCAGAGGGGATCTGGAAGTCGMrmip-ChIP qPCR-RATTCAGCAAGTTGGGAAGTCGMrmip-ChIP qPCR-RCTCCACCGGATCGGACTGTMrhyd4-ChIP qPCR-FAGCACAAGAAGCCTCACCCTMracth-ChIP qPCR-RACCTCCCGCGAAGCTATTGMracth-ChIP qPCR-RCTTGTCCCGCGAAGCTATTGMracdh-ChIP qPCR-RCGTATAGGGTGCGTGACTAACAATMrach-ChIP qPCR-RCGTATAGGGTGCGTGACTAACAATMrach-ChIP qPCR-RCGTATAGGGTGCGTGAGCAAGMrach-ChIP qPCR-RGCAACCGTGTAGGCAAGCAACAATMrgpi-ChIP qPCR-RGAAAGTGCAAGCAACCCTGTMrable-ChIP qPCR-RGCAACCGTGTAGGCAAGCAACAATMrgb88-ChIP qPCR-RGAGAAGTGCAAGCAACCTGTMrgh88-ChIP qPCR-RGCTGGTGAATCTGGTGCCAMrm24-ChIP qPCR-RGCTGGTGAATCTGGTGCCAMrm24-ChIP qPCR-RGCTGGTGAATCTGGTCCGTCTGMrm24-ChIP qPCR-RAACTGACGGAGGTCCGTCTGTMrm24-ChIP qPCR-RGCTGGTGAATCTGGTGCCAMrm24-ChIP qPCR-RAACTGACGGAGGTCCGGTCTGGTCGTMrm24-ChIP qPCR-RAACTGACGGAGGTCGGTCTGGTCGTMrm24-ChIP qPCR-RAACTGACGGAGGTCGGTCTGGTCGTMrm24-ChIP qPCR-RAACTGACGACGGGGCTCGGTCGTCGTMrm24-ChIP qPCR-RAACTGACGACGGAGGTTCGGTCGTMrm24-ChIP qPCR-R </td
Mrtf1-qPCR-FAGATAGCCGATGAGTGCCGTTAMrtf1-qPCR-RCCGATTAGAATAATCGTCGTGCMrgpd-qPCR-FCCCAGAACATCATTCCCAGCMrgpd-qPCR-RTCAATGCGGGCAGTCAAGTCMractin-qPCR-FGCTCCCATCAACCCCAAGTMractin-qPCR-RACGACCAGAGGCGTAAAGAGMrcre1-ChIP qPCR-FTCGCTGCCTT TGAGACTAACACTChIP qPCR-RATTCAGCAAGTTGGTGAAGTCGMrmip-ChIP qPCR-RGTCCCACGGATCGGACTGTMrhyd4-ChIP qPCR-RCTCCACCGGATCGGAGGACAMracth-ChIP qPCR-RAGAAGGCCGTCGAGGACAMractC-ChIP qPCR-RCTTGTCCCGCGAAGCTATTGMracdh-ChIP qPCR-RCGGATGCGGGGTGCAGTGGCATMracdh-ChIP qPCR-RCGTATAGGGTGCGTGACTAACAATMrgpi-ChIP qPCR-RCGTATAGGGTGCGTGACTAACAATMracdh-ChIP qPCR-RCGTATAGGGTGCGTGACTAACAATMrgpi-ChIP qPCR-RGAGAAGTGCAAGCAAGCAACAATMrgpi-ChIP qPCR-RGCAACCGTGTAGGCAGGAGGAGMrgpi-ChIP qPCR-RGAGAAGTGCAAGCAACCCTGTMrgh88-ChIP qPCR-RGAGAAGTGCAAGCAACCTGGTMrgh88-ChIP qPCR-RGCTGGTGAATCTGGTGCCAMrgh88-ChIP qPCR-RGCTGGTGAATCTGGTGCCAMrgh24-ChIP qPCR-RGCTGGTGAATCTGGTGCCAMrgh88-ChIP qPCR-RGCTGGTGAATCTGGTGCCAMrgh88-ChIP qPCR-RGCTGGTGAATCTGGTGCCAMrgh24-ChIP qPCR-RGCTGGTGAATCTGGTGCCAMrgh88-ChIP qPCR-RGCTGGTGAATCTGGTGCCAMrgh88-ChIP qPCR-RGCTGGTGAATCTGGTCGTCGMrgh24-ChIP qPCR-RGCTGGTGGAATCTGGTCGTCGMrgh24-ChIP qPCR-RGCTGGTGGAATCTGGTCGTCGMrgh24-ChIP qPCR-RGCTGGTGGAATCTGGTCGTCGMrgh24-ChIP qPCR-RGCTGGTGCA
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Mrgpd-qPCR-RTCAATGCGGGCAGTCAAGTCMrgpd-qPCR-RGCTCCCATCAACCCCAAGTMractin-qPCR-RACGACCAGAGGCGTAAAGAGMrcrel-ChIP qPCR-FTCGCTGCCTT TGAGACTAACACTChIP qPCR-RATTCAGCAAGTTGGTGAAGTCGMrmip-ChIP qPCR-FGGAATGCAGGGATCTCGAATAMrmip-ChIP qPCR-RCTCCACCGGATCGGACTGTMrhyd4-ChIP qPCR-RAGCCCCCGGATCGGAGCAMreatC-ChIP qPCR-RAGAAGGCCGTCGAGGACAMreatC-ChIP qPCR-RACCCTCCCGCAAGCTATTGMracdh-ChIP qPCR-RACCCTCCCGATACATCCGAMracdh-ChIP qPCR-RCGTATAGGGTGCGTGACTAACAATMrgpi-ChIP qPCR-RGCACCGTGTAGGCAGGAGAMracdh-ChIP qPCR-RCGTATAGGGTGCGTGACTAACAATMrgpi-ChIP qPCR-RGCAACCGTGTAGGCAAGGAGMrgpi-ChIP qPCR-RGCAACCGTGTAGGCAAGGAGMrgpi-ChIP qPCR-RGCAACCGTGTAGGCAAGCAACCTGTMrgh88-ChIP qPCR-RATCGAGACTGCTTTCGAGACAAMrgh88-ChIP qPCR-RTCCTTACCCAGCGGGACACTMrm24-ChIP qPCR-RGCTGGTGAATCTGGTGCCAMrm24-ChIP qPCR-RAACTGACGGAGGTCGGTCTGMrm24-ChIP qPCR-RAACTGACGACGAGGTCGGTCTGMrm24-ChIP qPCR-RAACTGACGGAGGTCGGTCTGMrm24-ChIP qPCR-RAACTGACGCAACCTMrm24-ChIP qPCR-RAACTGACGACGAGCTCCGGTCTGMrm24-ChIP qPCR-RAACTGACGACACTMrm24-ChIP qPCR-RAACTGACGACACTMrm24-ChIP qPCR-RAACTGACGACGCCTCTGMrm24-ChIP qPCR-RAACTGACGACACTMrm24-ChIP QPCR-RAACTGACGACACTMrm24-ChIP QPCR-RAACTGACCACCTCCCTCGMrm24-ChIP QPCR-RAACTGACCACCTCCCCTCGMrm24-ChIP QPCR
Mractin-qPCR-FGCTCCCATCAACCCCAAGTMractin-qPCR-RACGACCAGAGGCGTAAAGAGMrcre1-ChIP qPCR-FTCGCTGCCTT TGAGACTAACACTChIP qPCR-RATTCAGCAAGTTGGTGAAGTCGMrcre1-ChIP qPCR-RATTCAGCAAGGGATCTCGAATAMrmip-ChIP qPCR-FGGAATGCAGGGATCTGGAAGTCGMrhyd4-ChIP qPCR-FAGCACAAGAAGCCTCACCCTMrhyd4-ChIP qPCR-RAGCCCCCGCGAGGACAMrcatC-ChIP qPCR-RAGAAGGCCGTCGAGGACAMrcatC-ChIP qPCR-RACCCTCCCGAAACATCGGAMracdh-ChIP qPCR-RACCCTCCCGATACATCGAMracdh-ChIP qPCR-RCGGGAGTCCTAGCTGGCATMracdh-ChIP qPCR-RCGTATAGGGTGCGTGACTAACAATMrgpi-ChIP qPCR-RGAAAGGCAAGCAACCCTGTMrgba8-ChIP qPCR-RGAGAAGTGCAAGCAACCCTGTMrgh88-ChIP qPCR-RTCCTTACCCAGCGGGACACTMrm24-ChIP qPCR-RGCTGGTGAATCTGGTGACAMrm24-ChIP qPCR-RAACTGACGGAGTTCGGTCTGGMrm24-ChIP qPCR-RAACTGACGGAGGTTCGGTCTGMrm24-ChIP qPCR-RAACTGACGGACGTCGACTAGCTGMrm24-ChIP qPCR-RAACTGACGGAGGTTCGGTCTGMrm24-ChIP qPCR-RAACTGACGGAGCTCCTGMrm24-ChIP qPCR-RAACTGACGGAGCTCGGTCTGMrm24-ChIP qPCR-RAACTGACGGAGCTCCTGMrm24-ChIP qPCR-RAACTGACGGACCTCTGMrm24-ChIP qPCR-RAACTGACGGACATCTGGTCGGTCTGMrm24-ChIP qPCR-RAACTGACGGACCTCTGMrm24-ChIP qPCR-RAACTGACGGACCTCGTCTGMrm24-ChIP qPCR-RAACTGACGGACCTCGTCTGMrm24-ChIP qPCR-RAACTGACGGACCTCGCTCTGMrm24-ChIP qPCR-RAACTGACGGACCTCGTCTGMrm24-ChIP QPCR-RAACTGACCGCACCTGCTCGCTCTG
Mractin-qPCR-RACGACCAGAGGCGTAAAGAGMrcre1-ChIP qPCR-FTCGCTGCCTT TGAGACTAACACTChIP qPCRMrcre1-ChIP qPCR-RATTCAGCAAGTTGGTGAAGTCGMrmip-ChIP qPCR-FGGAATGCAGGGATCTCGAATAMrmip-ChIP qPCR-RCTCCACCGGATCGGACTGTMrhyd4-ChIP qPCR-FAGCACAAGAAGCCTCACCCTMrhyd4-ChIP qPCR-RAGAAGGCCGTCGAGGACAMrcatC-ChIP qPCR-RACCCTCCCGCAAGCTATTGMrcatC-ChIP qPCR-RACCCTCCCGGATACATCCGAMracdh-ChIP qPCR-FTCGGGAGTCCTAGCTGGCATMracdh-ChIP qPCR-FCGTATAGGGTGCGTGACTAACAATMrgpi-ChIP qPCR-RGCAACCGTGTAGGCAAGGAGMrgpi-ChIP qPCR-FGCAACCGTGTAGGCAAGCAACCCTGTMrgh88-ChIP qPCR-RGAGAAGTGCAAGCAACCCTGTMrgh88-ChIP qPCR-RTCCTTACCCAGCGGGACACTMrm24-ChIP qPCR-RACTGACGGAGGTCGGTCTGGMrm24-ChIP qPCR-RAACTGACGGAGGTCCGGTCTGMrm24-ChIP qPCR-RAACTGACGGAGGTCCGGTCTGMrm24-ChIP qPCR-RAACTGACGGAGGTCCGGTCTGMrm24-ChIP qPCR-RAACTGACGGAGGTCCGGTCTGMrm24-ChIP qPCR-RAACTGACGGAGGTCCGGTCTGMrm24-ChIP qPCR-RAACTGACGGAGGTCGGTCTGMrm24-ChIP qPCR-RAACTGACGGAGGTCGGTCTGMrm24-ChIP qPCR-RAACTGACGGAGGTCGGTCTGMrm24-ChIP qPCR-RAACTGACGGAGGTCGGTCTGMrm24-ChIP qPCR-RAACTGACGGAGGTCGGTCTGMrm24-ChIP qPCR-RAACTGACGGAGGTCGGTCTGMrm24-ChIP qPCR-RAACTGACGGAGGTCGGTCTGMrm24-ChIP qPCR-RAACTGACGGAGGTCGGTCTGMrm24-ChIP qPCR-RAACTGACGACCACCTMrm24-ChIP qPCR-RAACTGACGACCCACCTMrm24-ChIP
Mrcre1-ChIP qPCR-FTCGCTGCCTT TGAGACTAACACTChIP qPCRMrcre1-ChIP qPCR-RATTCAGCAAGTTGGTGAAGTCGMrmip-ChIP qPCR-FGGAATGCAGGGATCTCGAATAMrmip-ChIP qPCR-RCTCCACCGGATCGGACTGTMrhyd4-ChIP qPCR-FAGCACAAGAAGCCTCACCCTMrhyd4-ChIP qPCR-RAGCCCCGCGAAGCAAGAAGCCTCACCCTMrcatC-ChIP qPCR-RAGAAGGCCGTCGAGGACAMrcatC-ChIP qPCR-RACCCTCCCGATACATCCGAMrcatC-ChIP qPCR-RACCCTCCCGATACATCCGAMracdh-ChIP qPCR-FTCGGGGAGTCCTAGCTGGCATMracdh-ChIP qPCR-RCGTATAGGGTGCGTGACTAACAATMrgpi-ChIP qPCR-RGCAACCGTGTAGGCAAGGAGMrgh88-ChIP qPCR-RGAGAAGTGCAAGCAACCCTGTMrgh88-ChIP qPCR-RTCCTTACCCAGCGGGACACTMrm24-ChIP qPCR-RGCTGGTGAATCTGGTGCCAMrm24-ChIP qPCR-RAACTGACGGAGGTTCGGTCTGMrm24-ChIP qPCR-RAACTGACGGAGGTTCGGTCTGMrm24-ChIP qPCR-RAACTGACGGAGGTTCGGTCTGMrm24-ChIP qPCR-RAACTGACGACGCCACTMrm24-ChIP qPCR-RAACTGACGACGAGCTCGGTCTGMrm24-ChIP qPCR-RAACTGACGACGCACTMrm24-ChIP qPCR-RAACTGACGACGAGTCCGGTCTG
Mrcre1-ChIP qPCR-RATTCAGCAAGTTGGTGAAGTCGMrmip-ChIP qPCR-FGGAATGCAGGGATCTCGAATAMrmip-ChIP qPCR-RCTCCACCGGATCGGACTGTMrhyd4-ChIP qPCR-FAGCACAAGAAGCCTCACCCTMrhyd4-ChIP qPCR-RAGAAGGCCGTCGAGGACAMrcatC-ChIP qPCR-RAGAAGGCCGTCGAGGACAMrcatC-ChIP qPCR-RACCCTCCCGGAAGCTATTGMracdh-ChIP qPCR-RCGTATAGGGTGCGTGGCATMracdh-ChIP qPCR-RCGTATAGGGTGCGTGACTAACAATMrgpi-ChIP qPCR-RGCAACCGTGTAGGCAAGGAGMrgpi-ChIP qPCR-RGAGAAGTGCAAGCAACCCTGTMrgh88-ChIP qPCR-RTCCTTACCCAGCGGGACACTMrgh88-ChIP qPCR-RGCTGGTGAATCTGGTGCCAMrm24-ChIP qPCR-RAACTGACGGAGGTCCGGTGACTAGMrm24-ChIP qPCR-RAACTGACGGAGGTCCGGTCTGMrm24-ChIP qPCR-RAACTGACGGAGGTCCGTTCGGTCTGMrm24-ChIP qPCR-RAACTGACGGAGGTCCGTCTG
Mrmip-ChIP qPCR-FGGAATGCAGGGATCTCGAATAMrmip-ChIP qPCR-RCTCCACCGGATCGGACTGTMrhyd4-ChIP qPCR-FAGCACAAGAAGCCTCACCCTMrhyd4-ChIP qPCR-RAGAAGGCCGTCGAGGACAMrcatC-ChIP qPCR-RACCCTCCCGCAAGCTATTGMrcatC-ChIP qPCR-RACCCTCCCGATACATCCGAMracdh-ChIP qPCR-RCGTATAGGGTGCGTGGCATMracdh-ChIP qPCR-RCGTATAGGGTGCGTGACTAACAATMrgpi-ChIP qPCR-RGCAACCGTGTAGGCAAGGAGMrgpi-ChIP qPCR-RGAGAAGTGCAAGCAACCCTGTMrgh88-ChIP qPCR-RGAGAAGTGCAAGCAACCCTGTMrgh88-ChIP qPCR-RTCCTTACCCAGCGGGACACTMrm24-ChIP qPCR-RGCTGGTGAATCTGGTGCCAMrm24-ChIP qPCR-RAACTGACGGAGGTTCGGTCTGMrm24-ChIP qPCR-RCGTGGTGAATCTGGTGCCAMrm24-ChIP qPCR-RCATGCTCCCACCTGTMrm24-ChIP qPCR-RCATGCTCCCACCTCGMrm24-ChIP qPCR-RCATGCTCCCACCTCGMrm24-ChIP qPCR-RCATGCTCCCACCTCGMrm24-ChIP qPCR-RCATGCTCCCCCGACCTCGMrm24-ChIP qPCR-RCATGCTCCCCCCCTCGMrm24-ChIP qPCR-RCATGCTCCCCCCCTCGMrm24-ChIP qPCR-RCATGCTCCCCCCCCTCG
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Mrhyd4-ChIP qPCR-FAGCACAAGAAGCCTCACCCTMrhyd4-ChIP qPCR-RAGAAGGCCGTCGAGGACAMrcatC-ChIP qPCR-FCTTGTCCCGCGAAGCTATTGMrcatC-ChIP qPCR-RACCCTCCCGATACATCCGAMracdh-ChIP qPCR-FTCGGGAGTCCTAGCTGGCATMracdh-ChIP qPCR-RCGTATAGGGTGCGTGACTAACAATMrgpi-ChIP qPCR-FGCAACCGTGTAGGCAAGGAGMrgpi-ChIP qPCR-RGAGAAGTGCAAGCAACCCTGTMrgh88-ChIP qPCR-FATCGAGACTGCTTTCGAGACAAMrgh88-ChIP qPCR-RTCCTTACCCAGCGGGACACTMrm24-ChIP qPCR-FGCTGGTGAATCTGGTGCCAMrm24-ChIP qPCR-RAACTGACGGAGGTTCGGTCTGMrm24-ChIP qPCR-RAACTGACGAAGCACCTGTMrm24-ChIP qPCR-RAACTGACGGAGGTTCGGTCTG
Mrhyd4-ChIP qPCR-RAGAAGGCCGTCGAGGACAMrcatC-ChIP qPCR-FCTTGTCCCGCGAAGCTATTGMrcatC-ChIP qPCR-RACCCTCCCGATACATCCGAMracdh-ChIP qPCR-FTCGGGAGTCCTAGCTGGCATMracdh-ChIP qPCR-RCGTATAGGGTGCGTGACTAACAATMrgpi-ChIP qPCR-FGCAACCGTGTAGGCAAGGAGMrgpi-ChIP qPCR-RGAGAAGTGCAAGCAACCCTGTMrgh88-ChIP qPCR-FATCGAGACTGCTTTCGAGACAAMrgh88-ChIP qPCR-RTCCTTACCCAGCGGGACACTMrm24-ChIP qPCR-FGCTGGTGAATCTGGTGCCAMrm24-ChIP qPCR-RAACTGACGGAGGTTCGGTCTGMrm24-ChIP qPCR-RCATGCTCCACCACCT
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Mrgh88-ChIP qPCR-RTCCTTACCCAGCGGGACACTMrm24-ChIP qPCR-FGCTGGTGAATCTGGTGCCAMrm24-ChIP qPCR-RAACTGACGGAGGTTCGGTCTGMrm24-ChIP pPCR-RCATGCTTCCAACGGAGGTTCGGTCTG
Mrm24-ChIP qPCR-F GCTGGTGAATCTGGTGCCA Mrm24-ChIP qPCR-R AACTGACGGAGGTTCGGTCTG
Mrm24-ChIP qPCR-R AACTGACGGAGGTTCGGTCTG
Mrszð-ChIP qPCK-F CATUCTUGAGUAUUGUTAUT
Mrs28-ChIP qPCR-R AAGTGGACGAGGTCCTGGATG
Mrmpl1-ChIP qPCR-F TACTCGCCTCACTCACGTCCA
Mrmpl1-ChIP qPCR-R GCCATTGACCTGAGGGACAG
MrrgsA-ChIP qPCR-F CGGCTCCACCAGTTACGACA
MIIIgsA-CHIF YFCK-K I I OUC I AUUCACUUAA I AAUA
MratfB-ChIP qPCR-F CAAGGTCACCAACAATACAATCG
MratfB-ChIP qPCR-F CAAGGTCACCAACAATACAATCG MratfB-ChIP qPCR-R GACATTTTGAAGCGGCAACAC
MingsA-Chir qPCR-KI TOOCTAGOCACCOAATAAGAMratfB-ChIP qPCR-FCAAGGTCACCAACAATACAATCGMratfB-ChIP qPCR-RGACATTTTGAAGCGGCAACACMrtf1-ChIP qPCR-FAGATAGCCGATGAGTGCCGTTA

F, forward; R, reverse.