



## Supplementary Materials for

### **Blocking promiscuous activation at cryptic promoters directs cell type specific gene expression**

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## Materials and Methods

### Fly strains and husbandry

*Drosophila* strains were raised in standard molasses medium at 25°C unless otherwise noted. The following *Drosophila* strains were used: *w*<sup>1118</sup> as wild-type; *bam*<sup>1</sup>(8); *bam*<sup>Δ86</sup>(28); *hs-Bam* (29); *hs-Bam-HA* (30); *rbp4P-Rbp4-YFP* (9); *bamP-Bam-HA* (30); *bamP-Bam-GFP* (31); *saP-Sa-GFP* (32); *bam-Gal4* (31); *UAS-dicer2* (33); *Df(2L)ED779/SM6a* (deficiency for *kmg*) (34); *UAS-RNAi-CG5204 (kmg)* (Vienna *Drosophila* Resource Center (VDRC), hairpin #1: transformant ID 107395 / hairpin #2: transformant ID 34235); *UAS-RNAi-dMi-2* (VDRC, transformant ID 107204); *y<sup>1</sup> P(act5c-cas9, w+) M(3xP3-RFP.attP)ZH-2A w\** (35); *aly*<sup>5p</sup>, *aly*<sup>2</sup> (5); *y<sup>1</sup>, w<sup>1</sup>, hs-Flp<sup>122</sup>; FRT40A, ubi-nGFP/CyO* (Bloomington *Drosophila* Stock Center (BDSC)); *dMi-2-GFP* (Flytrap, CA06598) (36).

### Clonal and RNAi analysis

RNAi knock-down (KD) experiments were carried out by crossing males with a *UAS-RNAi hairpin* transgene (VDRC) to virgin females of *w;;bam-Gal4, UAS-dicer2*. Progeny were raised for three days at 25°C then transferred to and held at 30°C to increase expression of the RNAi hairpin.

To produce clonal germ line cysts homozygous mutant for *kmg*, females *yw, hs-Flp; FRT40A, ubi-nGFP/CyO* flies were crossed with *w; FRT40A, kmg<sup>Δ7</sup>/CyO* males, and non-Cy progeny were chosen for the experiment. Heat shock was applied once at 37°C for 90 minutes ~4-5 days prior to eclosion to induce formation of clones.

### Generation of the transgenic lines for Kmg and Aly-HA

A 4,301 bp region (dm6, chr2L:13159806-13164106) containing the open reading frame of *kmg* plus genomic regions 1kb upstream and 1kb downstream was amplified by PCR from genomic DNA. After cutting the vector pBDP2 (37) with EcoRI, the purified PCR fragment was inserted into the vector by Gibson assembly. The sequence of the pBDP2-*kmg* assembled plasmid was verified by sequencing before transformation. 500ng/μL of pBDP2-Kmg plasmid was injected into PhiC31 expressing embryos with an attP target site on the third chromosome (BL25710, attP@68A4). PCR primers used to amplify the genomic region containing *kmg* were:  
fw: GGCGTATCACGAGGCCCTTTCGTCTTCAAGtcccagttggaattatctctgaatagc  
re: ACCCGTGGCCAGCGGCCGCTCTAGAACTAGgggacctggttgaggagc  
(Sequence in upper case denotes the part complementary to the regions in pBDP2 vector, and the sequence in lower case denotes regions complementary to the genomic regions of *kmg*)

To build the transgene for expression of epitope tagged Aly under the control of its endogenous promoter, 3xHA sequences (ggccgcacatctttaccatacagatgttcctgactatgcgggctatccctatgacgtcccggactatgcaggatcctatccatagacgttcagattacgctgctcagagcggtatgcaggtg) were PCR amplified and inserted in frame immediately after the start codon for Aly to build N-terminal tagged 3HA-Aly or immediately before the stop codon to build the C-terminal tagged Aly-3HA construct. Both N-terminal and C-terminal tagged Aly genomic rescue fragments containing the complete Aly coding sequences plus 1908 bp of upstream regulatory sequences and 1081 bp of downstream regulatory sequences (dm6, chr3L:3023505-3028324) were inserted into pCasper4 for P-element mediated germline transformation. Both constructs were verified by sequencing before being injected into  $y^1w^{1118}$  embryos. Both N-terminal tagged and C-terminal tagged lines rescued the  $aly^{-/-}$  phenotype, and C-terminal tagged lines were used exclusively for this study (fig. S10A and B). Immunostaining of Aly-HA recapitulated the expression pattern of Aly (5), being both nuclear and cytoplasmic in immature spermatocytes, then becoming predominantly nuclear in mature spermatocytes (fig. S10C and C'). Aly-HA protein was expressed and correctly localized in the nucleus of *kmg* KD spermatocytes (fig. S10D and D'). For ChIP of Aly-HA, testes were dissected from flies bearing one copy of the Aly-HA genomic rescue transgene in addition to the two wild-type endogenous *aly* alleles.

### Antibody against Kmg

Four regions of the Kmg coding sequence, amino acids (aa)27-107, aa224-312, aa402-435, and aa652-747, were initially cloned into GST (Glutathione S-transferases)- and MBP (Maltose Binding Protein)- fusion bacterial expression vectors. Two regions, aa27-107 (N-term) and aa652-747 (C-term), were chosen to be antigens because they were soluble and expressed at higher levels than the other fragments in the *BL21* strain of *E.coli*. Pre-immune sera from eight rabbits were screened and four rabbits were chosen based on their lower background in western blot and immunostaining of *Drosophila* testes. 300µg/500µL of purified MBP-Kmg-N-term and 500µg/500µL of purified MBP-Kmg-C-term were injected into two rabbits each (Josman, LLC., Napa, CA). After the initial immunization, boost injections were performed with the same dosage of antigen at days 21, 35, 49, and 63. After preliminary testing of immunoreactivity of rabbit sera at day 77, a final boost was performed at day 91 and the animals were exsanguinated to obtain serum at day 101. Antibody against the C-terminal part of Kmg was affinity purified using GST-Kmg-652-747.

### Immunofluorescence staining

For wholmount staining, testes from 0-1 day old males were dissected in 1X phosphate-buffered saline (PBS) and incubated with 4% formaldehyde for 20 minutes at room temperature. After fixation, the testes were washed once in PBST (PBS with 0.1% Triton X-100) and permeabilized with permeabilization solution (PBS with 0.3% Triton X-100 and 0.6% sodium deoxycholate) for 1 hour. After permeabilization, testes were

washed once in PBST and blocked for 30 minutes with PBST with 3% bovine serum albumin (BSA), then incubated overnight with desired primary antibodies in PBST with 3% BSA at 4°C while rocking. After overnight primary antibody incubation, testes were washed three times with PBST, incubated with secondary antibodies conjugated with Alexa fluorophores (Alexa Fluor-488, -568, -647 from Molecular Probes) for 2 hours at room temperature in the dark while rocking, then testes were washed three times in PBST and mounted on glass slides with mounting medium with DAPI (VECTASHIELD, Vector Labs, Cat# H-1200).

For immunofluorescence staining of squashed testes, 0-1 day old males were dissected in 1X PBS and ~5 pairs of testes were placed on a glass slide (Superfrost Plus, Fisher, Cat# 12-550-15). A coverslip was applied and the testes were gently squashed by wicking PBS from under the coverslip using kimwipes while the flatness was being monitored by phase-contrast microscopy. When the testes were squashed approximately to one-cell thickness, the slide was snap frozen in liquid nitrogen, then the coverslip was removed and the testes samples were fixed in 100% methanol at -20°C for 5 minutes, then 100% acetone at -20°C for 2 minutes. After fixation, excess acetone was washed away with PBST and the samples were blocked by incubating in PBST with 3% BSA. The remaining steps were identical to those in the wholemount staining, except that the staining was done while testes samples were on the glass slide.

The sources and dilutions of primary antibodies used were as follows: Bag of Marbles (Bam, mouse, 1:5; Developmental Studies Hybridoma Bank (DSHB)) (28); Green Fluorescent Protein (GFP, rabbit, 1:3000, Invitrogen, Cat# A11122); Vasa (goat, 1:50; Santa Cruz Biotechnology, Cat# dc-13); phospho Histone 3 (rabbit, 1:100, Millipore, Cat# 04-746), dMi-2 (rabbit, 1:600, produced in Alexander Brehm lab), Prospero (mouse, 1:200, DSHB), Kmg (C-term: affinity purified, 1:200 / N-term: 1:5000 after pre-absorption to fixed embryos), HA (mouse, 1:2000, clone 16B12, Covance MMS-101P-200).

### Incorporation of EdU

Testes from 0-1 day old males were dissected into Schneider's media. After ~20 pairs of testes were dissected, the medium was exchanged with Schneider's media containing 100µM 5-ethynyl-2'-deoxyuridine (EdU) and the testes were incubated for 5 minutes in a small droplet on the slide to facilitate oxygen supply. Testes were then washed with Schneider's media twice, and immediately fixed with 4% formaldehyde for 20 minutes at room temperature, then washed and permeabilized as in the wholemount staining protocol described above. After testes were washed one time with PBST, Alexa-555 fluorophore was conjugated to EdU according to the manufacturer's protocol (Click-iT® EdU Alexa Fluor® 555 Imaging Kit, Life Technologies, Cat# C10338).

### Fluorescence microscopy and image analysis



Images were taken with either a Photometrics CoolSNAP CCD camera connected to a Zeiss Axioskop microscope or with a Leica SP2 or SP8 confocal microscope. All confocal images were obtained using microscopes maintained in the Cell Sciences Imaging Facility at the Beckman Center at Stanford University. Laser intensity and detector gain for the confocal microscope or exposure time for the fluorescent microscope were adjusted for each experiment to ensure that the signal was in linear range and not saturated. Once image acquisition settings were determined, the same settings were maintained for the entire set of images that needed to be compared.

Most images were processed using ImageJ (ver. 1.14) or Fiji (ver. 1.49m) except that stitching of phase-contrast images from adjacent fields was done using Adobe Photoshop CS6. All the samples to be compared went through the same processing in ImageJ/Fiji. For quantification of fluorescence signal intensity, the regions where fluorescent signal was detected were outlined by the 'polygon selection' tool in ImageJ and the mean pixel intensity was measured. Background signal intensity was measured by selecting the region in the same testes where there was no expression of target proteins, for example, the cytoplasmic space between nuclei for dMi-2. The mean background was then subtracted from the mean intensity of target signal. The degree of co-localization between dMi-2 and DAPI signal was evaluated using the Fiji plugin 'coloc 2' with default parameters to obtain Pearson's correlation value 'r' of spatial signal intensities between dMi-2 and DAPI.

### qRT-PCR

RNA was extracted from ~30 pairs of testes by phenol-chloroform separation using Trizol (Life Technologies, Cat# 15596-026). 0.5µg of total RNA was used to make cDNA by using Ready-To-Go You Prime First-Strand Beads (GE Healthcare, Cat# 27-9264-01) with 0.1µg of random hexamer per reaction. After reverse transcription, cDNA was diluted 1/100 in filtered water and 5-10 µL of diluted cDNA was used per qPCR reaction. qRT-PCR was done by mixing 2X SensiFAST SYBR Hi-ROX reagents (Bioline, Cat # BIO-92020) with cDNA and 125nM each primer. The 7300 Real Time PCR System from Applied Biosystems was used. Relative abundance of the transcripts was calculated by the  $\Delta\Delta C_t$  method. Two transcripts, *gapdh2* and *rpl32*, were used as normalizing controls for input cDNA amount, and both controls gave consistent results. For all the graphs represented, the data were normalized with *rpl32*. In all qRT-PCR experiments, error bars represent standard deviation from the mean in three independent biological replicates.

Primer sequences used for this study were as follows:

*gapdh2\_fw*: CCGTTCATGCCACCACCGCT  
*gapdh2\_re*: GCCACGTCCATCACGCCACA  
*rpl32\_fw*: AAGCGGCGACGCACTCTGTT  
*rpl32\_re*: GCCTGTTCGGCCTTCTGGGTG  
*rbp4\_fw*: CCGGACGTCAGCGGGCATT  
*rbp4\_re*: GCCAGCATAACAGGCCCAAG

*kmg\_fw*: CACCCAACACTGCAGGCTTCTA  
*kmg\_re*: TTCGGGTTCCCTCTGGCAAAA  
*topi\_fw*: GCCAACACGGACCTGCTCCA  
*topi\_re*: AGTCACAGGGCAGCAGGAGCT  
*osiris\_fw*: GATGGCGAGAATCTCAAGGA  
*osiris\_re*: TGAGGAAGGGGAGAATGAAG  
*obp73a\_fw*: ACTCTGGTGCCTCTGGAAGA  
*obp73a\_re*: CGTTGTTTTTGGCATAGACG  
*CG32105\_fw*: TGGCAATGGCAATGGAAACG  
*CG32105\_re*: TCGCACAGCTCGAAGTTCTT  
*btv\_fw*: CTGAACTCGGTGTTGGACGA  
*btv\_re*: TGACGCATGCCTCACATCAT  
*CG6495\_fw*: AGCAAACGCATGGATCTGGA  
*CG6495\_re*: AATGCCCTGGAGGTACTTGC  
*Oa2\_fw*: ATGCTGGTGATTGTGTCGGT  
*Oa2\_re*: ACGTCGAAGCTGTTCCACAT  
*gol\_fw*: TCGAACCTGTCCCATGTGTA  
*gol\_re*: GCCTCAACCAGTGCCAGT  
*Gyc89Db\_fw*: CCGATGCTGGAGAACTTCAT  
*Gyc89Db\_re*: AAGTCCTGCCTATCGTCGAA  
*Gr21a\_fw*: CGATCGTCTTTCCGAATCTC  
*Gr21a\_re*: GGCTCAGATCCACCCATAGA

### Microarrays

RNA was extracted from ~30 pairs of testes by phenol-chloroform separation using Trizol (Invitrogen). ~200ng of total RNA was reverse transcribed using T7-oligo(dT)24 primer, used for second-strand synthesis and finally *in vitro* transcribed to make complementary RNA (cRNA) based on the Affymetrix protocol. Fragmented cRNA was hybridized to *Drosophila* genome 2.0 arrays (Affymetrix, Cat # 900532). Microarray experiments were done by the Stanford Protein and Nucleic acid (PAN) Facility. Raw data was background adjusted and normalized using the R program (v3.0.2) with Bioconductor package GCRMA (38). All data needed to be compared were normalized together. 126 probesets that are usually contaminants from accessory glands were discarded. Statistical tests were performed and graphs were plotted with Matlab software (Mathworks R2011b). Since the sample size was small (two biological replicates per condition), we used *p*-values from t-test (two-tail, unpaired, equal variance) without false discovery rate correction to determine significantly changed transcripts. The following criteria were used to select differentially expressed transcripts: Fig. 1C,  $p < 0.05$  and (24hr PHS / no heat shock) > 2-fold; Fig. 2C,  $p < 0.01$ , (*kmg* KD / *kmg* sibling ctrl.) > 4-fold, and raw expression level in sibling ctrl. < 10; Fig. 2D,  $p < 0.01$  and (wild-type / *tMAC* (*aly*<sup>-/-</sup>)) > 2<sup>8</sup>-fold.

The basal level of expression of *prospero* (*pros*) in *kmg* sibling controls raised in 30°C was higher than that in wild-type flies raised in 25°C (fig. S12B-F). Due to this

increased basal expression at higher temperature, *pros* was not included in the 440 misexpressed gene set. However, even at 30°C, expression of *pros* mRNA and Pros protein was substantially upregulated when Kmg function was knocked down in spermatocytes and this misexpression was fully suppressed by loss of function of the tMAC subunits *aly* in the *kmg* KD (*kmg* KD, *aly*<sup>-/-</sup> (*tMAC*)) (fig. S12B-F).

Significantly enriched gene ontology (GO) terms were obtained using Database for Annotation, Visualization and Integrated Discovery (DAVID) (39). Microarray data from *bam*<sup>-/-</sup>, *aly*<sup>-/-</sup> (*tMAC*), *sa*<sup>-/-</sup> (*tTAF*) and wild-type were obtained from Chen et al. (GSE 28728) (26).

### Analysis of ChIP- and RNA-Seq data

#### Trimming:

All raw sequencing data were quality and adapter trimmed using a wrapper script TrimGalore that combines Cutadapt (ver. 1.8.1) and FastQC (ver. 0.11.4) with adapter overlap stringency of 1 and Phred quality score cutoff of 20.

#### Mapping:

For ChIP-Seq, trimmed fastq files were mapped to the *Drosophila melanogaster* genome (release 6.07 downloaded from Flybase) (40) using the Burrows-Wheeler Aligner (bwa aln, ver. 0.7.10) (41) with default parameters assuming sequencing error rate lower than 2%. For RNA-seq, trimmed fastq files were mapped using a splice-aware aligner, Tophat (ver. 2.0.9) (42), utilizing Bowtie2 (ver. 2.1.0) (43) to the *Drosophila melanogaster* genome (release 6.07) while supplying transcript annotation obtained from the Ensembl database (*Drosophila\_melanogaster*.BDGP6.82.chr.gff3) (44). Default parameters were used, except that the library type was specified as ‘fr-firststrand’ since only the first strand was retained by the dUTP method in library preparation. RNA-Seq data from 14-16 hour old embryos were obtained from the modENCODE data set web page (<http://data.modencode.org>; accession number modEncode\_4442; dataset 35400, 35401) and processed identically as our own datasets.

#### Post-mapping:

The BAM (binary version of SAM (Sequence Alignment/Map)) files generated by mapping were further filtered to exclude unmapped reads (-F 0x04), and reads mapped with low confidence (-q 1) using SAMtools (ver. 1.2) (45). Filtered BAM files were sorted and indexed by using SAMtools.

#### Peak calling:

Genomic regions enriched after chromatin immunoprecipitation with respective proteins (peaks) were identified using MACS2 (ver. 2.1.0) (46) without building a shifting model (--nomodel) since it is possible that Kmg, dMi-2 and Aly bind to broad regions of DNA.

#### Read counts calculation and visualization:

To obtain read counts corresponding to genomic positions, bedgraph files were generated from BAM files using the BEDTools genomecov (47) while normalizing all the samples to have the equivalent of 1 million mapped reads using the '-scale' option. For RNA-seq, the '-split' option was added to prevent read counts from being calculated in introns. Read counts were further normalized to have the same amount excluding the reads on rRNA regions.

Given that the sequencing library was made with the dUTP method, Bam files were divided and re-merged to obtain strand specific read counts. To obtain sequencing reads mapped to the Watson (ascending order of genomic coordinate) strand, new bam files were created by obtaining reads that were 1) first mate in pair (-f 0x40) & reverse complemented (-f 0x10), 2) second mate in pair (-f 0x80) & not reverse complemented (-F 0x10) and merging 1) and 2). In contrast, to obtain sequencing reads mapped to the Crick (descending order of genomic coordinates), 1) first mate in pair (-f 0x40) & non reverse complemented (-F 0x10), 2) second mate in pair (-f 0x80) & reverse complemented (-f 0x10) were obtained and merged. For visualization in genome browsers (i.e. Integrative Genomic Viewer), bedgraph files were converted into bigwig files using the bedGraphToBigWig program. Read counts surrounding a list of genomic loci, for example, counts on 2kb upstream and downstream of TSSs of 680 Kmg bound genes, were obtained using custom Python (ver. 2.7.3) codes (available upon request). Corresponding heatmaps and metagene plots were drawn by Matlab (R2016a).

### Western blots

Total lysates from ~10 pairs of testes were loaded on a 10% or 4-20% SDS-PAGE gel (BioRad, Mini-PROTEAN® TGX™ Gel, Cat # 456-1036 or 1096) and transferred to a PVDF membrane (Bio-RAD, Cat# 162-0177) overnight at 4°C. The blot was blocked in 5% skim milk in PBSt (0.1% tween-20) for 2 hours at room temperature, incubated with primary antibodies in 2% skim milk in PBSt at 4°C overnight while rocking. After washing three times in PBSt for 10 minutes each, the blot was incubated with HRP-conjugated secondary antibodies in 2% skim milk in PBSt for 2 hours at room temperature. After incubation with secondary antibodies, the blot was washed three times in PBSt for 10 minutes each. The signal was detected using Western Lightning Plus-ECL reagents (PerkinElmer, Cat # NEL104001EA). The source and dilutions of primary antibodies used in this study were as follows: Kmg (rabbit, affinity purified C-term, 1:2000); Topi (rat, 1:20,000, gift from H. White-Cooper), Actin (mouse, 1:200,000, Millipore, clone C4, Cat # MAB1501), dMi-2 (rabbit, 1:20,000, produced in Alexander Brehm lab.), Lsd1 (rabbit, 1:20,000, gift from L. Di Stefano), HA (mouse, 1:20,000, clone 16B12, Covance MMS-101P-200).

### Immunoprecipitation

~150 pairs of testes were dissected from wild-type, *kmg* KD or *dMi-2-GFP* flies. Testis extracts were prepared by mechanically disrupting testes in lysis buffer (20 mM

Tris-HCl pH 8.0, 135 mM NaCl, 10% glycerol, 1% Nonidet P-40, 5 mM EDTA, 1 mM PMSF and 1x Complete protease inhibitor (Roche, Cat# 11697498001)) by passing through needles with successively smaller inner diameters 15 times each (21G – 23G – 25G). Extracts were incubated in lysis buffer for 30 min at 4°C and then spun at 14,000 rpm for 10 min. The supernatant was obtained and protein concentration was measured by Bradford assay. The same amounts of total lysates for each condition (~1mg) were precleared for 45 min at 4°C by adding the lysates to uncoupled Protein A Dynabeads (for Kmg IP, Life Technologies, Cat# 10002D) or Pan Mouse IgG Dynabeads (for GFP IP, Life Technologies, Cat# 11041). Pre-cleared testis extracts were then added to Protein A or Pan Mouse IgG Dynabeads chemically crosslinked to affinity purified rabbit  $\alpha$ -Kmg or mouse  $\alpha$ -GFP (Roche, Cat# 11814460001) with dimethyl pimelimidate (DMP, Sigma) (5.4 mg DMP/mL of 0.2M triethanolamine) per manufacturer's instructions, and incubated overnight at 4°C. Beads were then washed 3 times in lysis buffer and incubated at 70°C for 30 min in elution buffer (1% SDS, 10mM EDTA, 50mM Tris pH 8.0, 1mM PMSF, 1x Complete protease inhibitor) with frequent mixing. Eluted samples were TCA precipitated and re-dissolved in 1X SDS loading buffer.

### Chromatin immunoprecipitation (ChIP) and sequencing

Testes were dissected in batches of 85 pairs at a time in PBS. Dissected testes were fixed in 1% formaldehyde in PBS at room temperature for 8 minutes in rotating test tubes. The reaction was stopped by adding 2.5M glycine to the testes in 1% formaldehyde to a final concentration of 125mM glycine and incubating at 4°C for 5 minutes. Then the fixed testes were washed in PBS three times and snap frozen in liquid nitrogen, and stored in -80°C. Eight such batches (680 pairs altogether) were used per condition.

After accumulating enough samples, each batch of 85 pairs of frozen, fixed testes were thawed, homogenized using a plastic pestle, and resuspended in 130uL of sonication buffer (10mM Tris pH 8.0, 1mM EDTA, 0.1% SDS). The testis lysates were transferred to Covaris sonication miniTubes (Covaris, microTUBE AFA Fiber Pre-Slit Snap-Cap 6x16mm), and sonicated for 10 minutes each in the Covaris E220 Focused-ultrasonicator (Treatment Time: 600 sec; Acoustic Duty Factor: 2 %; Peak Incident Power: 105 W; Cycles Per Burst: 200) to a final DNA size distribution maximum between 300-500bp. After sonication, lysates from all 680 pairs of testes for the same genotype were pooled together and centrifuged at 4°C for 5 minutes to clear debris. About 40  $\mu$ L (~4%) of supernatant was saved to check fragment size and also to use as an input sample. 1/3 volume of 3X IP buffer was then added to sonicated testis lysates to achieve a final buffer composition of (20mM Tris pH 8.0, 135mM NaCl, 10% glycerol, 1% NonidetP-40, 5mM EDTA, 0.03% SDS, 1mM PMSF, 1x Complete protease inhibitor (Roche, Cat# 11697498001)). Testis lysates in IP buffer were incubated with Protein A magnetic beads conjugated with antibodies against Kmg, HA (for Aly-HA; Abcam Cat#: ab9110) or dMi-2, prepared as described above for protein immunoprecipitation. After overnight incubation, magnetic beads were washed two times with IP buffer (without SDS), two times with high salt wash buffer (same as the IP buffer but with 270mM NaCl), two times with NaDOC buffer (10mM Tris, pH 8.0, 250mM LiCl, 0.5% Nonidet P-40, 1mM EDTA,

0.5% NaDOC), and finally one time with TE NaCl (10mM Tris pH 8.0, 1mM EDTA, 50mM NaCl), then eluted with 200µl elution buffer (50mM Tris pH 8.0, 10mM EDTA, 1% SDS, 1mM PMSF, 1x Complete protease inhibitor (Roche, Cat# 11697498001)) twice by incubating at 70°C with occasional mixing every five minutes for 30 minutes. Immunoprecipitated protein-chromatin complexes were treated with RNase A for 30 minutes at 37°C, then with proteinase K for three hours at 55 °C, then de-crosslinked by incubating at 65°C for >12 hours. DNA was extracted from de-crosslinked eluates by phenol:chloroform:isoamyl alcohol (25:24:1) based phase separation followed by ethanol/sodium acetate precipitation. Precipitated DNA was resuspended in 15 µl of 10mM Tris, pH 8.0. The concentration of purified DNA was measured by Qubit (dsDNA HS Assay kit, Thermo Fisher Scientific, Cat#: Q32851).

Because the amount of immunoprecipitated DNA was very low (~1ng), sequencing libraries were generated without a purification step until the final PCR amplification by using a kit utilizing stem-loop adapters (Rubicon genomics, ThruPLEX DNA-Seq 12S kit) based on the manufacturer's instructions. All ChIP-Seq libraries were sequenced by NextSeq High Output mode with 75bp single end, except one replicate of the Kmg ChIP-Seq, which was sequenced with NextSeq Mid Output mode with 75bp paired end. Between 4 to 8 libraries were pooled into one sequencing lane, on average yielding over 40 million reads per sample (17 ~ 81 million). All sequencing was performed by the Stanford Functional Genomics Facility (SFGF).

### RNA-sequencing

RNA was extracted from ~150 pairs of testes per condition by phenol-chloroform separation using Trizol (Invitrogen). Purified RNA was further cleaned to remove potential residual salts using an RNeasy column (Qiagen, Cat#: 74104). mRNA was purified from ~30µg of total RNA using a Poly(A)Purist™ MAG Kit (Thermo Fisher, Cat#: AM1922) as per the manufacturer's protocol. 100ng of purified PolyA+ mRNA was used to make a strand-specific sequencing library by the dUTP incorporation method using a KAPA Stranded RNA-Seq Library Preparation Kit Illumina® Platforms (KAPA Biosystems, Cat#: KK8400) following the manufacturer's instructions. All RNA-Seq libraries were sequenced by NextSeq Mid Output mode 150bp paired end. Between 3 to 4 samples were pooled in a single lane, yielding on average of 48 million reads per sample (34 to 65 million). All sequencing was performed by the Stanford Functional Genomics Facility (SFGF).

## Supplementary Text

### Synchronized differentiation

Although both female and male germ line stem cells have been induced to differentiate by ectopic expression of Bam (48-49), it had not been explored whether this type of assay can be utilized to make germ cells undergo post-mitotic terminal differentiation in a synchronous manner. Synchronized differentiation of *bam*<sup>-/-</sup> spermatogonia to spermatocytes in two different genetic backgrounds was set up via the crossing schemes below:

\* fig. S2I-L

v♀ *w*; *hs-Bam-HA/CyO*; *bam*<sup>Δ86</sup>, *e/TM3, e, Sb* (×) ♂ *w*; ;*bam*<sup>1</sup>, *rbp4P-Rbp4-YFP*, *e/TM6b, e, Hu*

F1 used: ♂ *w*; *hs-Bam-HA*; *bam*<sup>Δ86</sup>, *e/bam*<sup>1</sup>, *rbp4P-Rbp4-YFP*

\* All other experiments

v♀ *hs-Bam/X*; ;*bam*<sup>1</sup>, *e/TM6b, e, Hu* (×) ♂ *w*; ;*bam*<sup>Δ86</sup>, *e/TM6b, e, Hu*

F1 used: ♂ *hs-Bam*; ;*bam*<sup>1</sup>, *e/bam*<sup>Δ86</sup>, *e*

The very first eclosed adult progeny were collected and used for ‘no heat shock (no Bam expression)’ control. Cleared bottles were then heat shocked at 37°C for 30 minutes in a water bath and returned to 25°C. The duration of heat shock was optimized to generate near-endogenous levels of Bam expression for a short time, so as to produce robust differentiation into spermatocytes while maintaining the population of stem cells. After heat shock induced expression of Bam, flies were collected and testis samples were prepared at a defined number of hours or days after the heat shock.

The *hs-Bam/X* line and *hs-Bam-HA/II* lines were indistinguishable in timing of upregulation of selected differentiation transcripts, including *rbp4*, *kmg* and *sa*.

Without heat shock, *hs-bam*; *bam*<sup>-/-</sup> testes contained many cysts of proliferating spermatogonia which undergo extra rounds of divisions, and eventually die (fig. S1D and E). However, by two days after the pulse of Bam expression induced by heat shock, 100% of testes examined contained differentiating spermatocytes, and on average 87.5% of germ cells (excluding dying cellular debris) seen under phase-contrast microscope were differentiating spermatocytes, which have visibly larger nuclear size than spermatogonia (fig. S1F-G, and N-O). By five days after the pulse of Bam expression, many *bam*<sup>-/-</sup> germ cells had started to undergo meiotic divisions (fig. S1H and I), and by eight days, the *bam*<sup>-/-</sup> testes had elongating spermatids (fig. S1J and K). Eventually the treated males produced motile (fig. S1L), functional sperm, and offspring if mated (fig. S1M).

Germ cells subjected to this *in vivo* synchronous differentiation protocol switched from proliferation to differentiation around 24 hours after the pulse expression of Bam. Bam protein reached its expression peak between 2 to 8 hours after the heat shock pulse

(Fig. 1B and fig. S2A-D), and a final round of TA mitosis and pre-meiotic S phase were completed within 24 hours after the heat shock, based on analysis of the mitotic marker phospho-Histone 3 (pH3) (Fig. 1B and fig. S2E-H) and incorporation of a thymidine analogue, 5-Ethynyl-2'-deoxyuridine (EdU) (Fig. 1B and fig. S2I-L). Expression of an early marker for spermatocyte differentiation, the RNA binding protein 4 (Rbp4) protein, was first detected by 32 hours after the Bam pulse, with an Rbp4-YFP protein expressed from a transgene (Fig. 1B and fig. S2I-L) (9).

At later time points, such as day 5 post heat shock (PHS) (fig. S1H) or day 8 PHS (fig. S1J), cells at the apical tip of the *hs-bam; bam<sup>-/-</sup>* testis had reverted to the *bam<sup>-/-</sup>* phenotype, as stem cells at the apical tip continued to produce *bam<sup>-/-</sup>* daughter cells after the Bam pulse was induced and the flies were returned to 25°C. As a result, *bam<sup>-/-</sup>* proliferating spermatogonia gradually accumulated within the testis. The proportion of the newborn *bam<sup>-/-</sup>* spermatogonia to differentiating spermatocytes was less than 10% in early time points up to 2 days PHS.

#### Generation of the CRISPR allele of *kmg* and expression of truncated Kmg in the mutant

A target location for the CRISPR guide RNA close to but downstream of the start codon of *kmg*, with a 12bp seed sequence unique in the genome next to the protospacer-adjacent motif (PAM) site was selected using the UCSC genome browser track for *Drosophila melanogaster* available from the Zhang lab (<http://www.genome-engineering.org/crispr>). Based on the method from Bassett et al. (50), the universal primer below containing the synthetic guide RNA (sgRNA) sequence for incorporation into the Cas9 enzyme

(AAAAGCACCGACTCGGTGCCACTTTTTCAAGTTGATAACGGACTAGCCTTATTTAACTTGCTATTCTAGCTCTAAAAC) was mixed with a specific primer containing complementary sequences to the universal primer, as well as a [T7 promoter] and the <*kmg* target sequence>

(GAAAT[TAATACGACTCACTATA]<GGAGCGTTCGGGTGATCGCT>GTTTTAGAGCTAGAAATAGC), and the mixture was PCR amplified. PCR amplified template for sgRNA was *in vitro* transcribed with T7 polymerase (MEGAscript™ T7 Kit, Life Technologies, Cat# AM1354M) overnight at 37°C. After *in vitro* transcription, the reaction mixture was treated with Turbo DNase (Life Technologies, Cat# AM2238) for 15 minutes at 37°C. sgRNA was purified by phenol-chloroform separation using Trizol (Life Technologies, Cat# 15596-026). 800ng/μL of sgRNA was injected into *actin-Cas9* embryos (*y<sup>1</sup> P(act5c-cas9, w+) M(3xP3-RFP.attP)ZH-2A w\**) (35).

After injection, *kmg* loss-of-function alleles were identified genetically by failure to complement a *kmg* deficiency, under the assumption that the testis phenotype of *kmg* CRISPR mutant/Deficiency would resemble that of *kmg* knock down (KD). Single injected founder flies were crossed individually to flies carrying a 191.2kb deficiency that removes *kmg* locus (*Df(2L)ED779/SM6a*). If any male F1 flies that did not carry SM6a (*potential CRISPR allele/Df*) had a testis phenotype similar to *kmg* KD, this meant that it was likely that at least one germline stem cell in the founder male contained a *kmg* loss-



of-function mutation. In that case, over 50 single sibling F1 potential *CRISPR allele/SM6a* male progeny from that founder were crossed individually to deficiency virgin females (*Df(2L)ED779/SM6a*) to identify germline transmitted lines. From 32 injected founder lines, four different lines with 1, 4, 7, or 10 bp frameshift mutations were obtained. The final line used for subsequent experiments, designated *kmg<sup>A7</sup>*, had a 7 bp deletion after the 31<sup>st</sup> base pair from the start codon, which introduced a premature stop codon at the position of the 45<sup>th</sup> amino acid. The *kmg<sup>A7</sup>* line was crossed to *w<sup>1118</sup>* and double balancer lines to replace chromosomes X and III with chromosomes X and III from non-CRISPR targeted animals to remove potential off-target mutations. To minimize probable background off-target mutations on chromosome II, the *kmg<sup>A7</sup>* allele was recombined to the second chromosome of *w<sup>1118</sup>* twice and selected again by crossing to deficiency virgin females (*Df(2L)ED779/SM6a*).

The *kmg<sup>A7</sup>* allele was not a null, potentially due to initiation of translation from an internal start codon. The phenotype of *kmg<sup>A7</sup>/Df* was slightly weaker than *kmg* KD, and germ cells from *kmg<sup>A7</sup>/Df* testis occasionally progressed to post-meiotic stages, unlike germ cells in *kmg* KD testes cultured at 30°C. Western blot analysis of testes from *kmg<sup>A7</sup>/Df* animals showed that a very small amount of truncated Kmg protein was produced in *kmg<sup>A7</sup>/Df* testis, as detected by Kmg antibody against the C terminus (fig. S4G). Knock down of *kmg* in a *kmg<sup>A7</sup>/Df* background removed residual truncated protein in *kmg<sup>A7</sup>/Df* (fig. S4G), and testes from *kmg<sup>A7</sup>/Df; kmg* KD animals did not have any post-meiotic germ cells (fig. S4F). Because *kmg* contains multiple in-frame start codons immediately downstream of the premature stop-codon (4 start codons within 150bp), we postulate that translational initiation from an internal AUG produced a low-level of functional Kmg protein in *kmg<sup>A7</sup>/Df* spermatocytes. A similar phenomenon has been observed in human genetic studies (51), and we recommend checking for the presence of in-frame downstream AUGs when designing a CRISPR-based knock out strategy.

#### Analysis of cryptic promoters by automated transcript assembly

To assemble unannotated transcripts, Cufflinks (ver. 2.2.1) (52) was used without providing transcript annotations. 143 genes that were expressed in both *kmg* KD testes and in wild-type heads were chosen, and the distance between the TSS of annotated transcripts and the nearest TSS of the assembled non-canonical transcripts predicted by Cufflinks were calculated. This distance analysis showed that only 16% (24% of *dMi-2* KD) of the transcripts misexpressed in *kmg* KD testes were predicted to start within 100bp of the nearest annotated TSSs, whereas 70% of the predicted transcripts from wild-type heads started within 100bps of the annotated TSSs (fig. S9B-D). These non-canonical transcripts were initiated from either upstream (44% for *kmg* KD and 37% for *dMi-2* KD) or downstream (40% for *kmg* KD and 40% *dMi-2* KD, fig. S9C and D) of annotated transcripts.

## Identification of transcription start sites from cryptic promoters by visual inspection and analysis on binding of Aly to these sites

We identified non-canonical transcription start sites (TSSs) by visual inspection because automatic transcript assembly often produced inaccurate hybrid or broken transcripts. The location of non-canonical TSSs for normally somatically expressed genes that were misexpressed in *kmg* KD and *dMi-2* KD testes were identified using the following criteria:

- 1) Only mapped RNA-Seq reads that were on the same strand as the misexpressed transcripts identified by microarray were considered.
- 2) The positions of potential cryptic promoters showed a dramatic and abrupt increase in the number of mapped reads in *kmg* KD compared to wild-type testes, and were located upstream of the 3' end of misexpressed transcripts identified by microarray.
- 3) The mapped RNA-Seq reads that showed abrupt increase were either part of or spliced to the annotated exons of the misexpressed transcripts.
- 4) The position of abrupt increase in mapped RNA-Seq reads is a TSS but not a splice acceptor site. In other words, the mapped RNA-Seq reads that showed abrupt increase did not have part of the reads that were also mapped to upstream annotated exons by splicing.

Visual inspection based on the above criteria using RNA-Seq mapping visualized in the Integrative Genome Browser (*Drosophila melanogaster genome 6.07*) identified 346 transcription start sites associated with the 440 misexpressed genes identified from microarray (table S6). Not all of the 440 genes were assigned with transcription start sites based on the visual inspection criteria above, as in some cases the increase in the number of mapped reads was not abrupt at the potential TSSs or the number of reads was small and it was not clear whether the reads might be spliced to regions further upstream.

The location of the TSSs identified for the misexpressed genes in *kmg* KD was compared with the location of Aly peaks ( $q < 10^{-5}$ ) identified by ChIP of Aly from *kmg* KD testes. If there was an Aly peak with its summit position within 100bp of the non-canonical TSSs for the misexpressed transcripts, the gene was scored as having a coinciding Aly peak in its cryptic promoter. For simplicity, genes with TSSs within 100bps of annotated TSSs were merged into the category of 'upstream' and 'downstream' based on their relative positions of TSSs with respect to the annotated TSSs.

## Analysis of differentiation stage of *kmg* KD; *aly*<sup>-/-</sup> germ cells

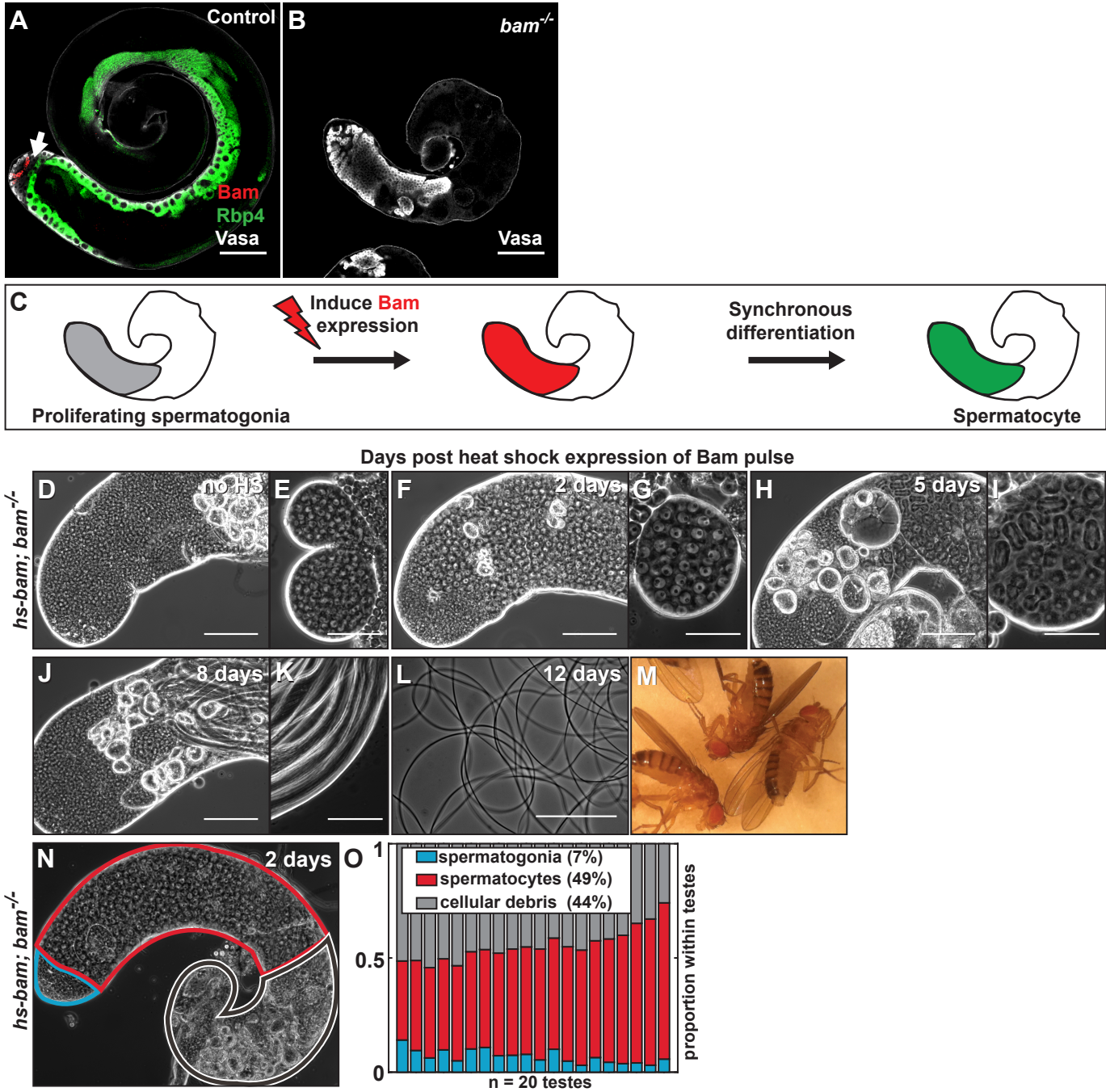
Morphological and molecular analyses suggested that the germ cells in the *kmg* KD; *aly*<sup>-/-</sup> animals reach a comparable stage where the misexpression of somatic genes was initiated in the *kmg* KD germ cells.

First, the size of nuclei of germ cells in *kmg* KD; *aly*<sup>-/-</sup> testes reached the size of nuclei in the germ cells of *kmg* KD testes in which Pros protein was detected. One of the

hallmarks of spermatocyte differentiation is a drastic growth in cell and nuclear size. The area of germ cell nuclei was measured by ImageJ on single confocal sections of testes stained with Vasa (a germ cell marker). Since different parts of nuclei can be seen under a single optically sectioned plane, nuclei sectioned at a plane far from their full area (distinguished by blurry nuclear boundary) were not included in the measurements (individual measurement values in situ can be provided upon request). When nuclear area was plotted with respect to distance from the tip of testes in *kmg* KD and *kmg* KD; *aly*<sup>-/-</sup> testes, nuclear size gradually increased as the cells displaced away from the testis tip. Pros protein started to be misexpressed in *kmg* KD testes when nuclear size reached around 100μm<sup>2</sup> (fig. S13A), and nuclear size continued to increase after expression of Pros initiated. Importantly, nuclei in *kmg* KD; *aly*<sup>-/-</sup> germ cells grew beyond 100μm<sup>2</sup> (fig. 13A) the stage when the *kmg* KD germ cells start to misexpress Pros.

Second, cells in the *kmg* KD; *aly*<sup>-/-</sup> testes expressed transcripts that started to be upregulated when the cells reach the stage where they start to misexpress Pros. To identify the exact stage of differentiation when Pros started to be misexpressed, we utilized the heat shock induced time course differentiation assay, by assessing misexpression in synchronously differentiating germ cells in which *kmg* had been knocked down in spermatocytes by RNAi. Six transcripts that showed robust misexpression in *kmg* KD testes were surveyed to identify the spermatocyte stage when these transcripts started to be misexpressed. Three of these transcripts were misexpressed by 48 hours from the induction of differentiation and by 72 hours all six transcripts were strongly misexpressed (fig. S13B). Next, to identify the normal transcripts that start to be expressed later than 48 hours after induction of differentiation, we normalized microarray data from *hs-Bam*; *bam*<sup>-/-</sup> (no heat shock, 24 hours and 48 hours post heat shock), *aly*<sup>-/-</sup>, wild-type, *kmg* KD, *kmg* KD; *aly*<sup>-/-</sup> testes together. Then we identified 751 genes that were activated in spermatocytes compared to spermatogonia independent of Aly function by comparing expression levels of *aly*<sup>-/-</sup> vs. *hs-Bam*; *bam*<sup>-/-</sup> (without heat shock, representing spermatogonia; 16 fold higher in *aly*<sup>-/-</sup> vs. *hs-Bam*; *bam*<sup>-/-</sup> without heat shock). Among these Aly-independent genes upregulated during spermatocyte differentiation, 148 genes that were activated after the stage when the misexpression begins in *kmg* KD were selected by choosing genes that were not yet activated in 48 hours post heat shock testes (less than 2-fold higher in 48 hours post heat shock vs. no heat shock for *hs-Bam*; *bam*<sup>-/-</sup> testes) (table S8). This set of 148 Aly independent 'late-activated' genes showed comparable expression levels in *kmg* KD vs. *kmg* KD; *aly*<sup>-/-</sup> testes (fig. S13C), suggesting that the transcriptional program of germ cells in *kmg* KD; *aly*<sup>-/-</sup> reached at least the stage when the misexpression of somatic genes initiated in *kmg* KD germ cells.

**Figure S1. A pulse of Bam expression induced synchronized differentiation of *bam*<sup>-/-</sup> germ cells**



**Fig. S1 A pulse of Bam expression induced synchronized differentiation of *bam*<sup>-/-</sup> germ cells**

(A) Testis stained for Vasa (white, all germ cells), Bam-HA (red, late transit amplifying (TA) cells), and Rbp4-YFP (green, spermatocytes) from a fly carrying *bamP-Bam-HA* and *rbp4P-Rbp4-YFP* transgenes. Arrow marks germ cells initiating spermatocyte differentiation.

(B) Testis from *bam*<sup>-/-</sup> stained for Vasa (white).

(C) Schematic of synchronous differentiation strategy.

(D-K) Phase-contrast images of *hs-bam; bam*<sup>-/-</sup> testes (D and E) before heat shock, (F and G) 2 days post heat shock (PHS), (H and I) 5 days PHS and (J and K) 8 days PHS. (E, G and I) cysts and (K) elongating spermatids dissected from testes.

(L) Phase-contrast image of motile sperm dissected from *hs-bam; bam*<sup>-/-</sup> testes 12 days PHS.

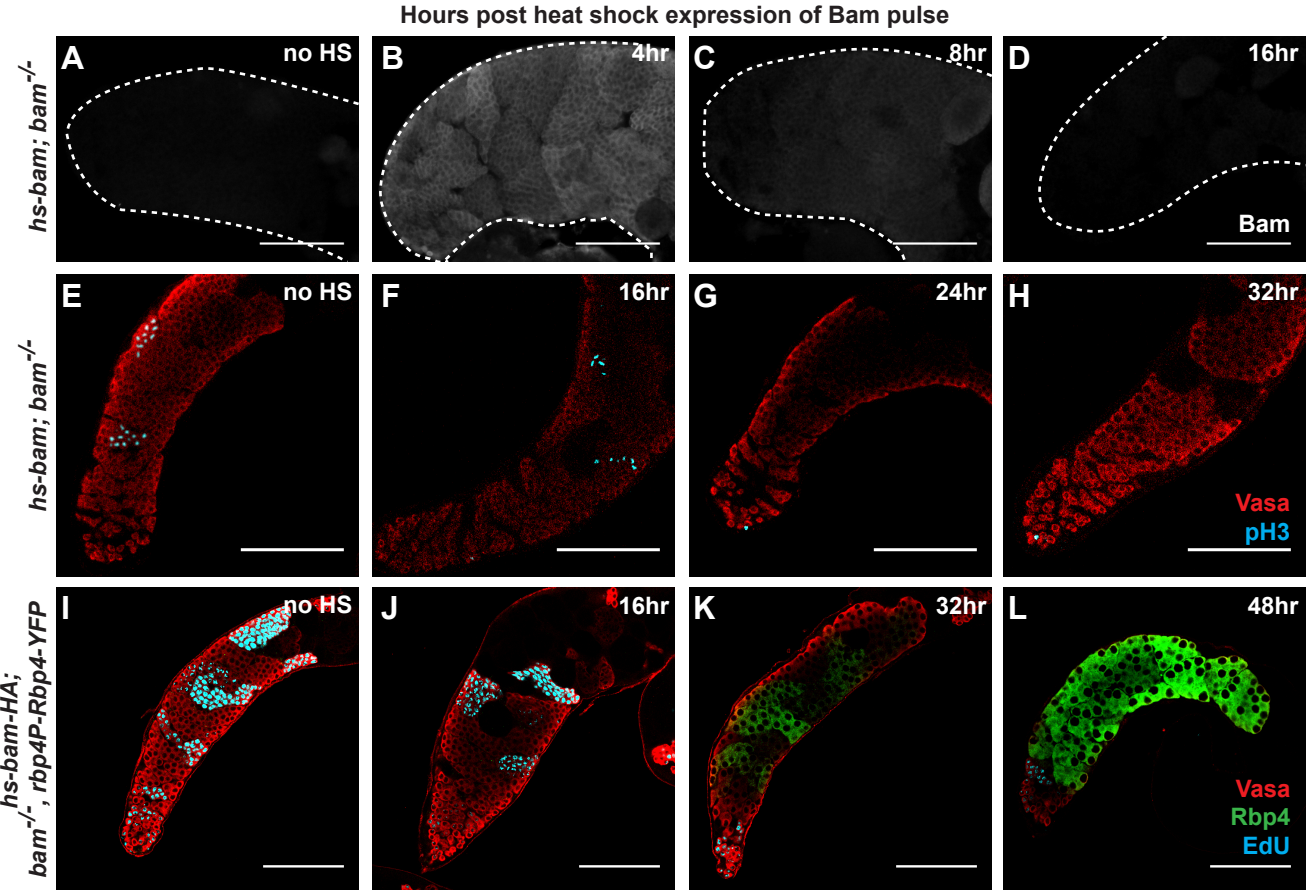
(M) Progeny from *hs-bam; bam*<sup>-/-</sup> male flies that underwent *in vivo* differentiation of germ cells by a heat shock induced pulse expression of Bam.

(N) Phase-contrast image of an entire *hs-bam; bam*<sup>-/-</sup> testis 2 days PHS. (Blue) proliferating spermatogonia. (Red) synchronously differentiating spermatocytes. (Gray) dying or dead cellular debris.

(O) Bar graph showing proportion of different cellular populations outlined in (N) by area in squashed preparation at 2 days PHS for 20 testes.

Scale bars: 100µm in A, B, D, F, H, J and L; 50µm in E, G, I and K.

**Figure S2. Synchronously differentiating germ cells switch to terminal differentiation by 24 hours after pulse expression of Bam**



**Fig. S2 Synchronously differentiating germ cells switch to terminal differentiation by 24 hours after pulse expression of Bam**

(A-D) Testes from *hs-bam; bam<sup>-/-</sup>* flies stained for Bam (A) without heat shock, (B) 4 hours, (C) 8 hours and (D) 16 hours PHS.

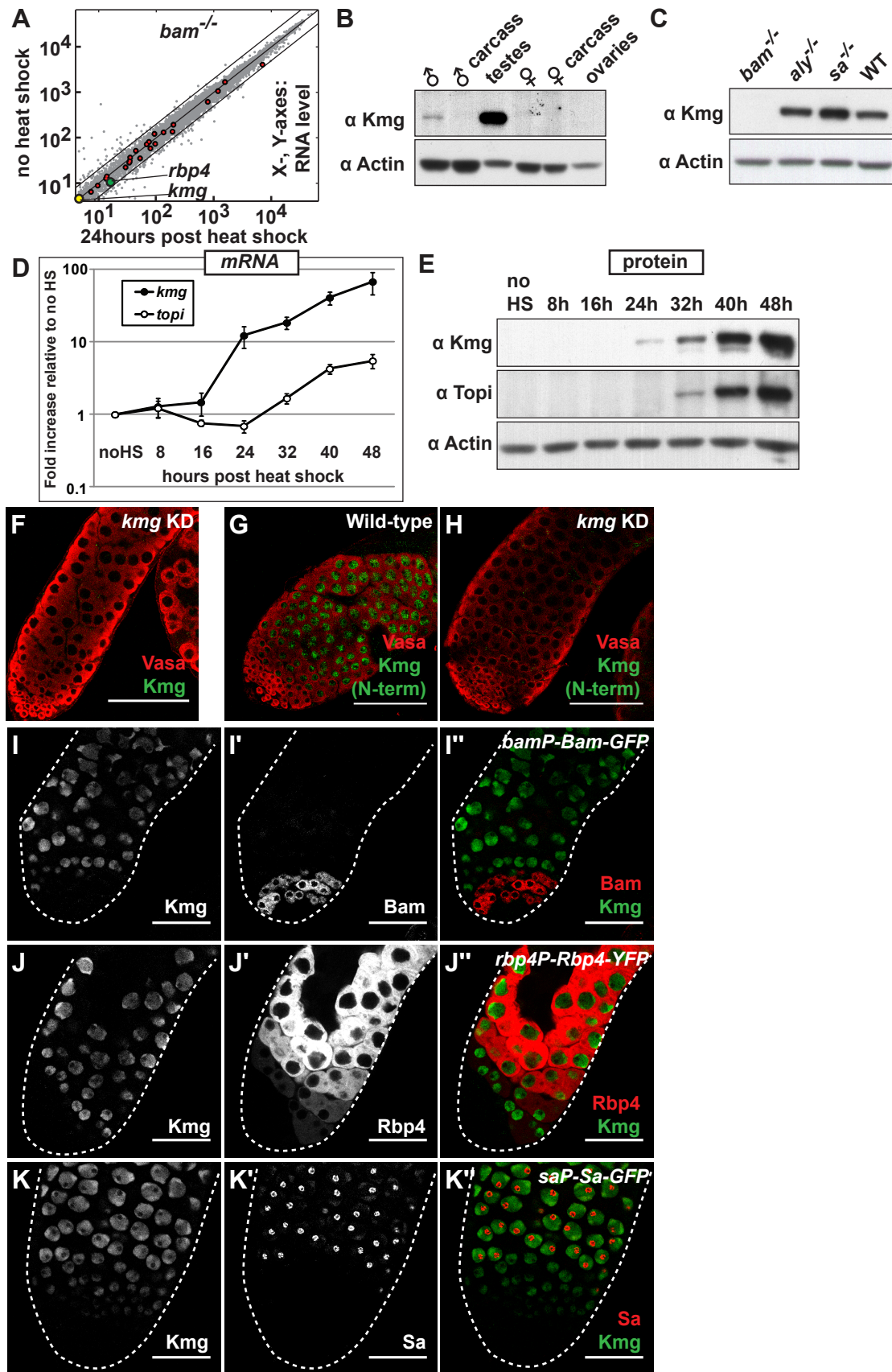
(E-H) Testes from *hs-bam; bam<sup>-/-</sup>* flies stained for Vasa (red) and phosphorylated Histone 3 (pH3, cyan) (E) without heat shock, (F) 16 hours, (G) 24 hours and (H) 32 hours PHS.

(I-L) Testes from *hs-bam-HA; bam<sup>-/-</sup>, rbp4P-Rbp4-YFP* flies stained for Vasa (red), Rbp4-YFP (green), and incorporated EdU (Cyan) (I) without heat shock, (J) 16 hours, (K) 32 hours and (L) 48 hours PHS.

Scale bars: 100 $\mu$ m.



**Figure S3. Kmg is expressed early in spermatocyte differentiation**





### Fig. S3 Kmg is expressed early in spermatocyte differentiation

(A) Scatter plot comparing microarray data on gene expression between no heat shock vs. 24 hour PHS testes from *bam*<sup>-/-</sup> (n = 1) to control for the effect of heat shock. (red dots) Significantly upregulated transcripts in Fig. 1C (*hs-Bam*; *bam*<sup>-/-</sup>).

(B) Western blot of Kmg protein in lysates of whole or gonadectomized males or females, testes and ovaries.

(C) Western blot of Kmg protein in lysates from *bam*<sup>-/-</sup>, *aly*<sup>-/-</sup> (*tMAC*), *sa*<sup>-/-</sup> (*tTAF*) and wild-type testes.

(D) Expression of mRNAs for *kmg* and *topi* (a *tMAC* subunit) in testes during the time course assessed by qRT-PCR. Error bars: standard deviation (n = 3).

(E) Western blot of Kmg and Topi protein from testes from the differentiation time course.

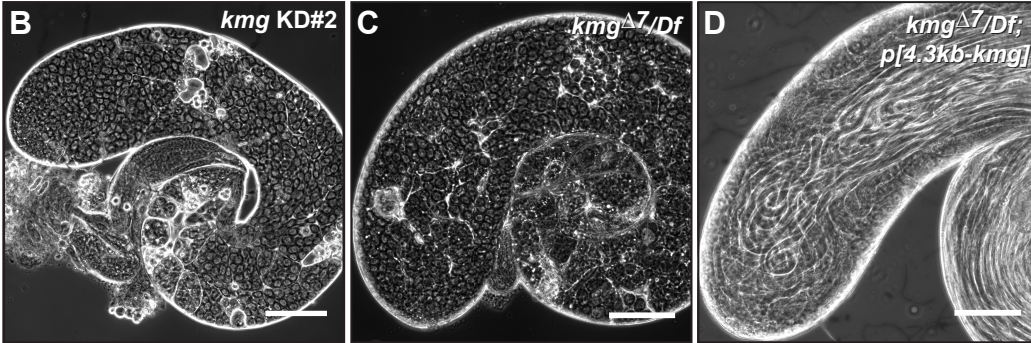
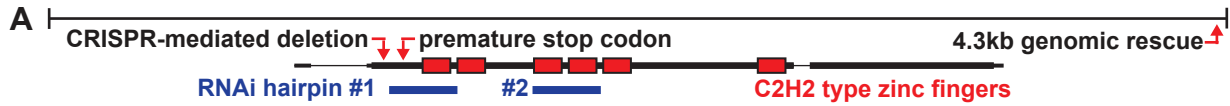
(F) Testis from *kmg* KD flies stained for Vasa (red) and Kmg (green) with antibody directed against a C-terminal region of Kmg.

(G and H) Testes from (G) wild-type and (H) *kmg* KD flies stained for Vasa (red) and Kmg (green) with antibody directed against an N-terminal region of Kmg.

(I-K'') Immunofluorescence images of (I, J and K) Kmg, (I') Bam, (J') Rbp4, (K') Sa, (I'', J'' and K'', merge) (Green) Kmg, (Red) Bam, Rbp4 or Sa in testes bearing (I-I'') *bamP-Bam-GFP*, (J-J'') *rbp4P-Rbp4-YFP* and (K-K'') *saP-Sa-GFP* transgenes. GFP and YFP were visualized by native fluorescence. White dotted lines represent testis outlines.

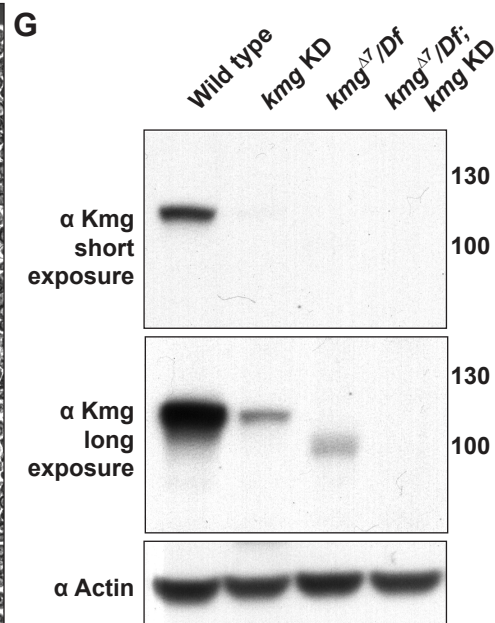
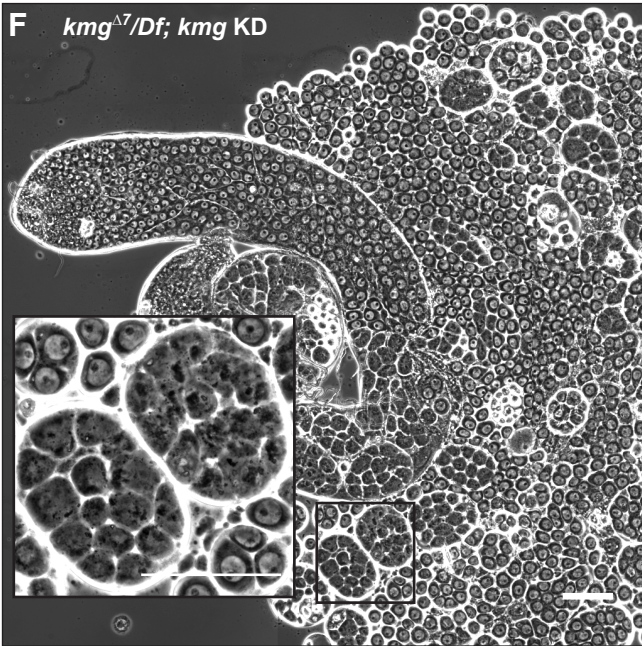
Scale bars: 100  $\mu$ m in F-H; 50  $\mu$ m in I-K''.

# Figure S4. Kmg is required for spermatocyte differentiation



**E**

wild-type	AAAAATCCAAGGAAAAATTTTGCTTGTTCAGATTTTGTCAAGTC	Start codon
<i>kmg</i> [Δ7] / <i>Df</i>	AAAAATCCAAGGAAAAATTTTGCTTGTTCAGATTTTGTCAAGTC	ATC GAGCTGCCTTCAAT
	*****	
	cut	PAM
wild-type	GGTGGAGCGTTCGGGGTGATCGCTTGGTGGTGCAGCTTGGTTAGTGGTGCCTCACTTTA	
<i>kmg</i> [Δ7] / <i>Df</i>	GGTGGAGCGTTCGG-----CTTGGTGGTGCAGCTTGGTTAGTGGTGCCTCACTTTA	
	*****	
	frameshift	
wild-type	TCAGTCATCTATTGAGGGCGGAGCAGGTGCTGTGCTTCCTATGTCCCAAAGCGTGCAGCC	
<i>kmg</i> [Δ7] / <i>Df</i>	TCAGTCATCTATTGAGGGCGGAGCAGGTGCTGTGCTTCCTATGTCCCAAAGCGTGCAGCC	
	*****	



### Fig. S4 Kmg is required for spermatocyte differentiation

(A) Diagram of the *kmg* locus: (thin lines) introns, (thick lines) exons, (medium lines) 5' and 3' UTRs. (Red) C2H2-type zinc fingers, (Blue) position of RNAi hairpins.

(B-D) Phase-contrast images of (B) *kmg* KD with RNAi hairpin targeted to region #2 in the diagram on (A), (C) *kmg*<sup>A7</sup>/*Df* and (D) *kmg*<sup>A7</sup>/*Df*; *p[4.3kb-kmg]* testes.

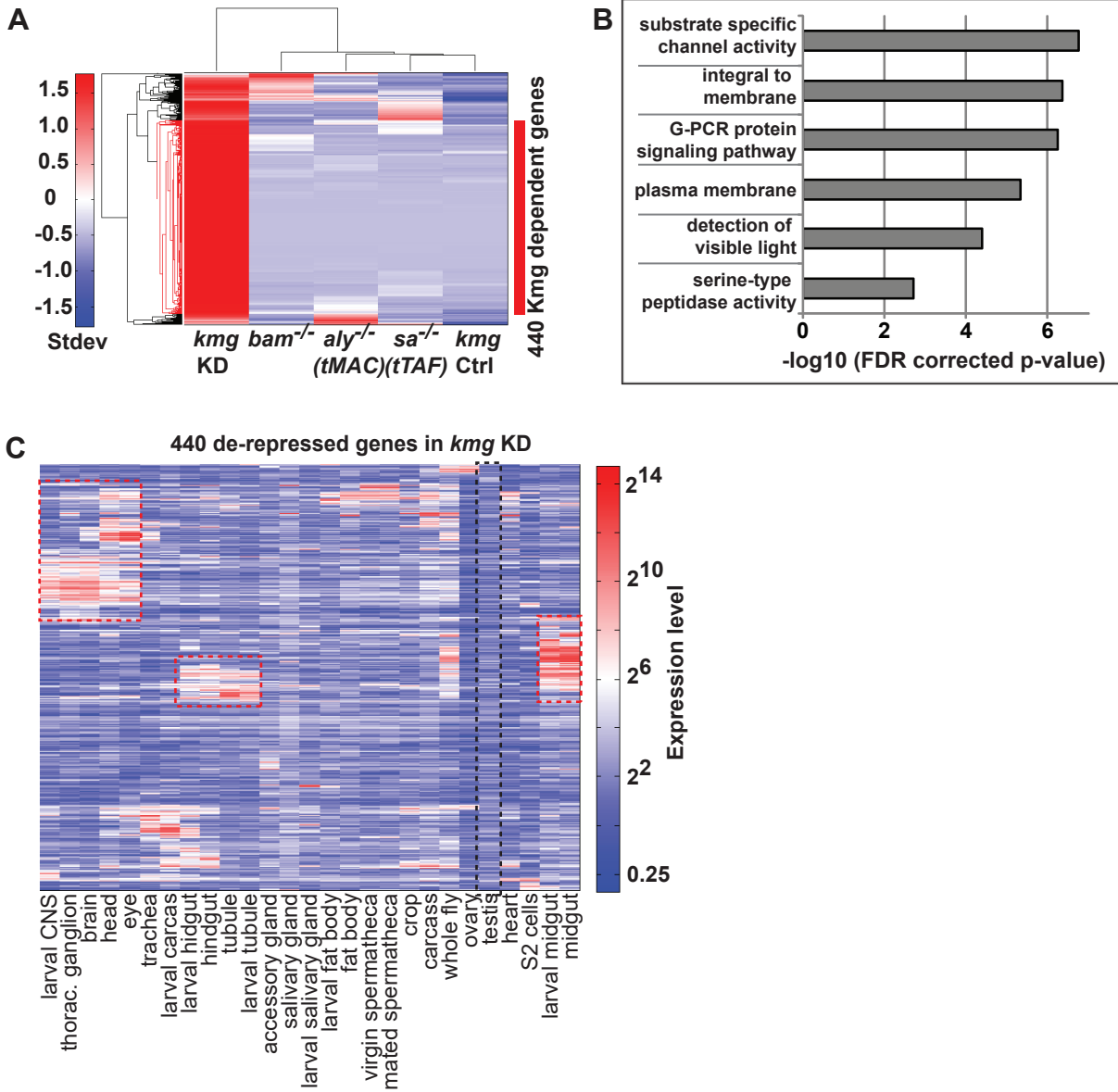
(E) DNA sequence of *kmg* CRISPR mutant with 7 base pair deletion showing the start codon (green), region targeted by the CRISPR guide RNA (yellow) and the PAM motif (cyan). (red triangle) the position predicted to be cut by Cas9 nuclease.

(F) Phase-contrast image of a testis from a *kmg*<sup>A7</sup>/*Df*; *kmg* KD fly. Testis sheath was opened before squashing to spread out intact spermatocyte cysts. Inset shows enlarged images of the most advanced germ cell cysts prior to cell death.

(G) Western blot of Kmg protein with testis lysates from wild-type, *kmg* KD, *kmg*<sup>A7</sup>/*Df* and *kmg*<sup>A7</sup>/*Df*; *kmg* KD flies. Numbers on right show molecular weight based on the positions of size markers.

Scale bars: 100µm in B-D and F.

**Figure S5. Kmg prevents expression of non-spermatogenic transcripts**



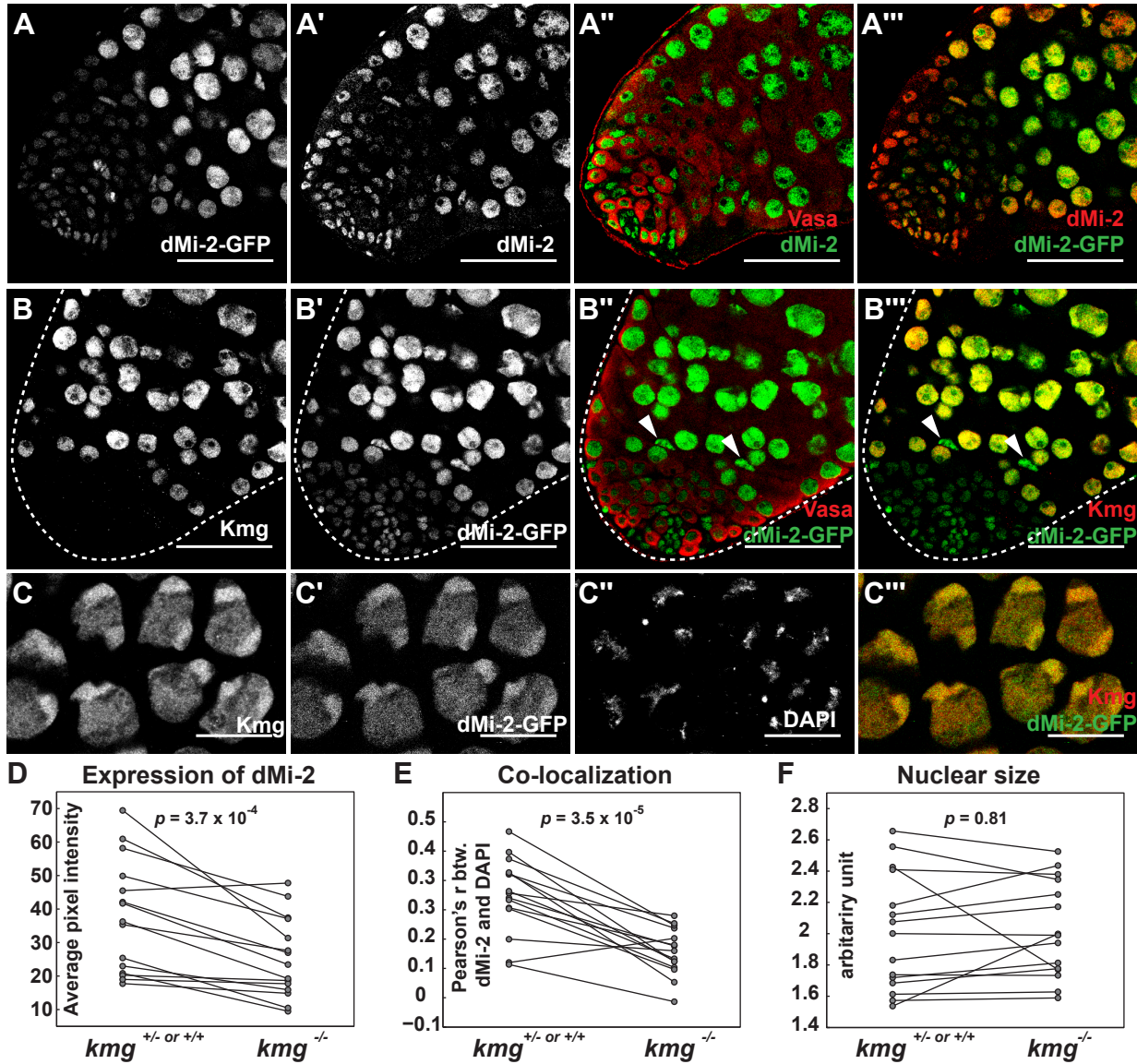
**Fig. S5 Kmg prevents expression of non-spermatogenic transcripts**

(A) Hierarchical clustering of abnormally upregulated transcripts in *kmg* KD testes based on their expression in testes with different mutations *bam*<sup>-/-</sup>, *aly*<sup>-/-</sup> (*tMAC*) and *sa*<sup>-/-</sup> (*tTAF*). (red bar) 440 transcripts detected by microarray as upregulated in *kmg* KD testes but not in other genotypes.

(B) Most significantly enriched Gene Ontology (GO) terms for 440 genes de-repressed in *kmg* KD testes.

(C) Hierarchical clustering of 440 genes de-repressed in *kmg* KD testes according to their expression in 27 different tissues or cell types (*11*). Black rectangle: expression in wild-type testes; Red rectangles: examples of expression in specific somatic tissues.

**Figure S6. Ubiquitous expression of dMi-2 and co-localization with Kmg in spermatocytes**



**Fig. S6 Ubiquitous expression of dMi-2 and co-localization with Kmg in spermatocytes**

(A-A''') Immunofluorescence images of (A) dMi-2-GFP, (A') dMi-2, (A'', merge) Vasa (red), dMi-2 (green), (A''', merge) dMi-2 (red), dMi-2-GFP (green) in a testis from a fly bearing one copy of a dMi-2-GFP protein trap at the endogenous locus heterozygous with a wild-type allele. dMi-2-GFP was visualized by its native fluorescence.

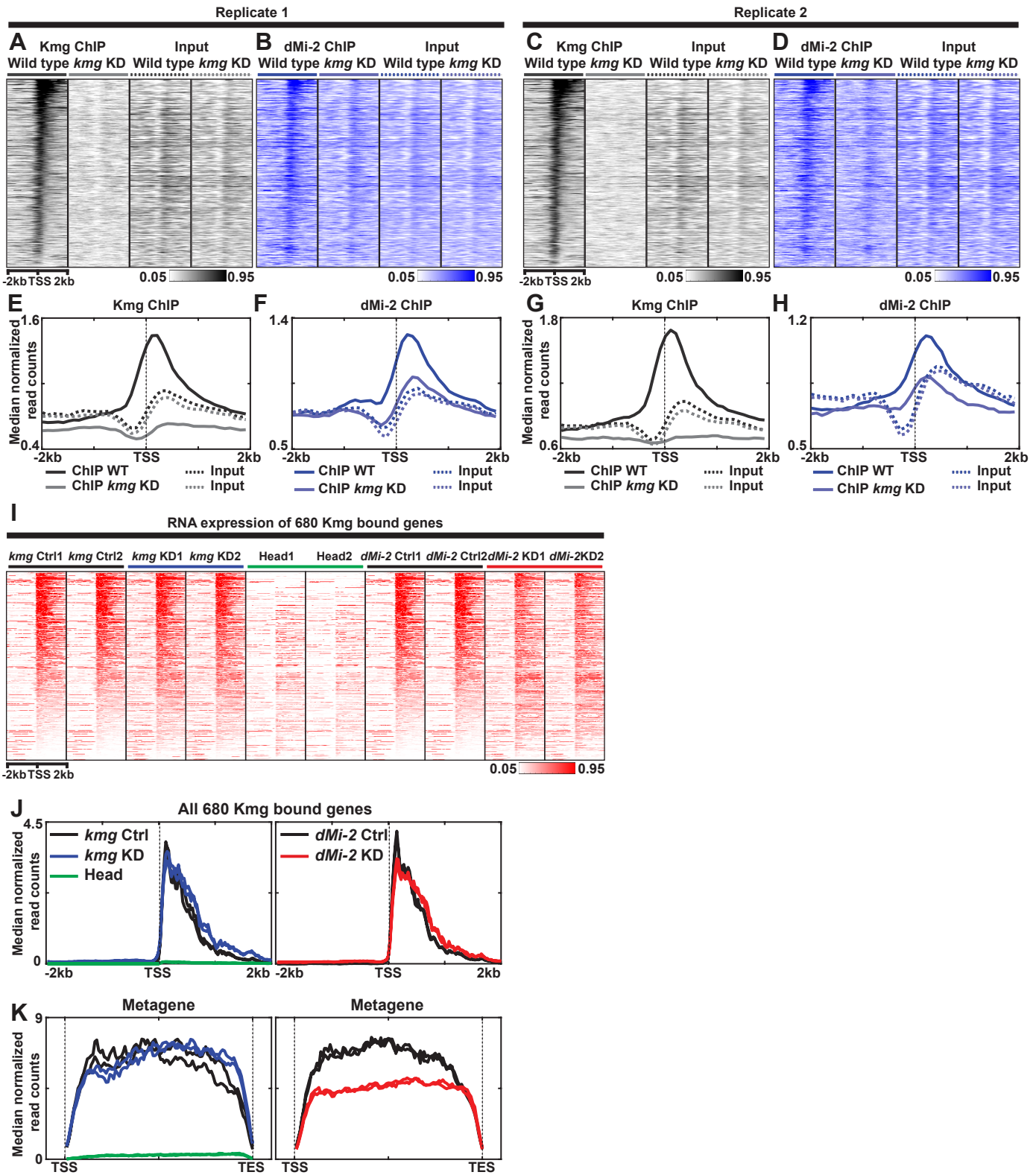
(B-C''') Immunofluorescence images of (B and C) Kmg, (B' and C') dMi-2-GFP, (B'', merge) Vasa (red), dMi-2-GFP (green), (C'') DAPI, (B''' and C''', merge) Kmg (red), dMi-2-GFP (green). (B-B''') Testis apical tip. (B'' and B''', arrowheads) Nuclei of somatic cyst cells, which express dMi-2 but not Kmg. (C-C''') Mid-testis showing mature spermatocytes from flies bearing a dMi-2-GFP protein trap. dMi-2-GFP was visualized by native fluorescence.

(D-F) Quantification of (D) expression level of dMi-2 protein, (E) co-localization of dMi-2 protein and chromatin represented by DAPI staining and (F) the size of measured nuclei in *kmg*<sup>+/+ or +/-</sup> or *kmg*<sup>-/-</sup> spermatocytes. Only directly neighboring cysts on the same z-plane were measured and compared. T-test (two-tailed, paired) was performed to test statistical significance (n = 15).

Scale bars: 50µm in A-B'''; 25µm in C-C'''.



**Figure S7. Kmg and dMi-2 ChIP-Seq and RNA-Seq expression of Kmg bound genes**





**Fig. S7 Kmg and dMi-2 ChIP-Seq and RNA-Seq expression of Kmg bound genes**

(A-D) Heatmap representation of normalized read counts on genomic regions  $\pm 2$ kb of the transcription start sites (TSSs) for 680 Kmg bound genes. (A and B) Replicate 1, the same dataset represented as median plots in (E) and (F). (C and D) Replicate 2, the same dataset represented as median plots in (G) and (H). Lightest (white) color represents a read count value at the 5th percentile. Darkest (black or blue) color represents read count values at the 95th percentile.

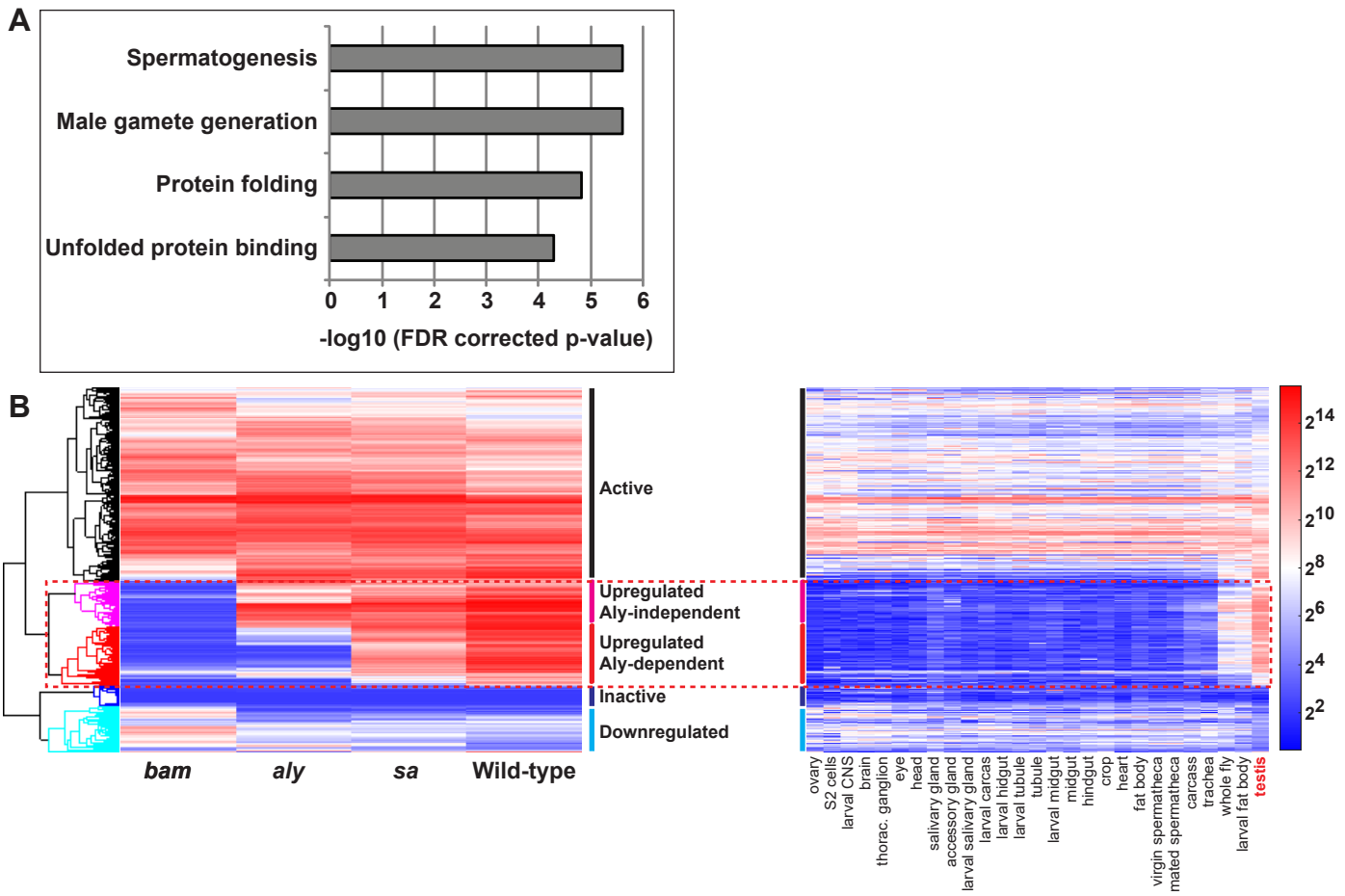
(E-H) Median profile of Kmg and dMi-2 ChIP (solid lines) and corresponding input (dotted lines) signals for 680 Kmg bound genes for genomic regions centered at the TSS for data shown in (A-D).

(I) Heatmap representation of normalized RNA-seq read counts for 680 Kmg bound genes for region  $\pm 2$ kb of TSS. Lightest (white) color represents read count values at the 5th percentile. Darkest (red) color represents read count values at the 95th percentile.

(J-K) (J) Median RNA expression profile centered at the TSSs and (K) metagene median RNA expression profile plotted proportional to transcript for 680 Kmg bound genes. RNA-Seq read counts from testes from (Blue) *kmg* KD or (Red) *dMi-2* KD, and (Black) corresponding control animals, as well as from (Green) wild-type heads were plotted.

For all plots in Fig. S7, read counts were plotted according to the direction of transcription from 5' to 3'.

**Figure S8. Kmg bound genes are actively expressed in the testes**

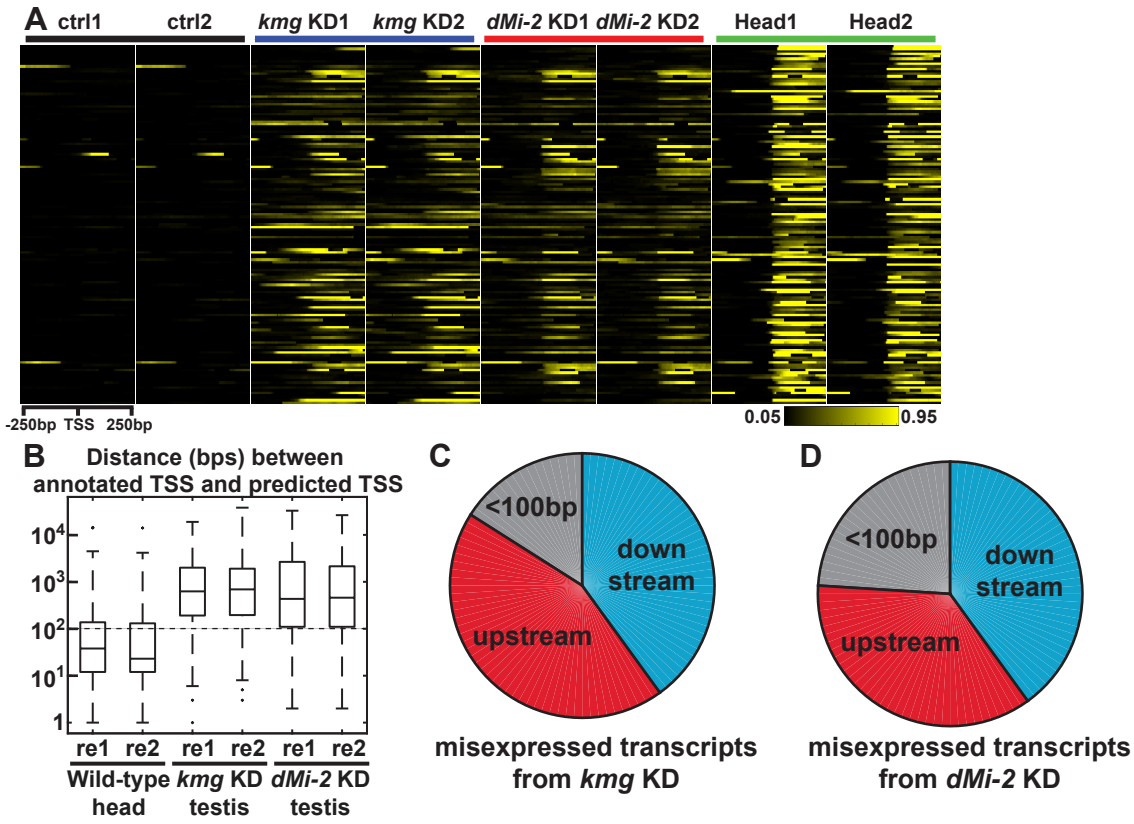


**Fig. S8 Kmg bound genes are actively expressed in the testes**

(A) Most significantly enriched Gene Ontology (GO) terms for 680 genes most robustly bound by Kmg.

(B) Left heat map: Hierarchical clustering of genes robustly bound by Kmg based on their expression in testes with different mutations *bam*<sup>-/-</sup>, *aly*<sup>-/-</sup> (*tMAC*) and *sa*<sup>-/-</sup> (*tTAF*). Right heat map: Expression of genes that are bound by Kmg clustered based on their similarity in expression between 27 different tissues in flies. Red rectangle represents genes that become activated in spermatocytes, and show little expression in many other tissues.

**Figure S9. Misexpression from cryptic promoters**



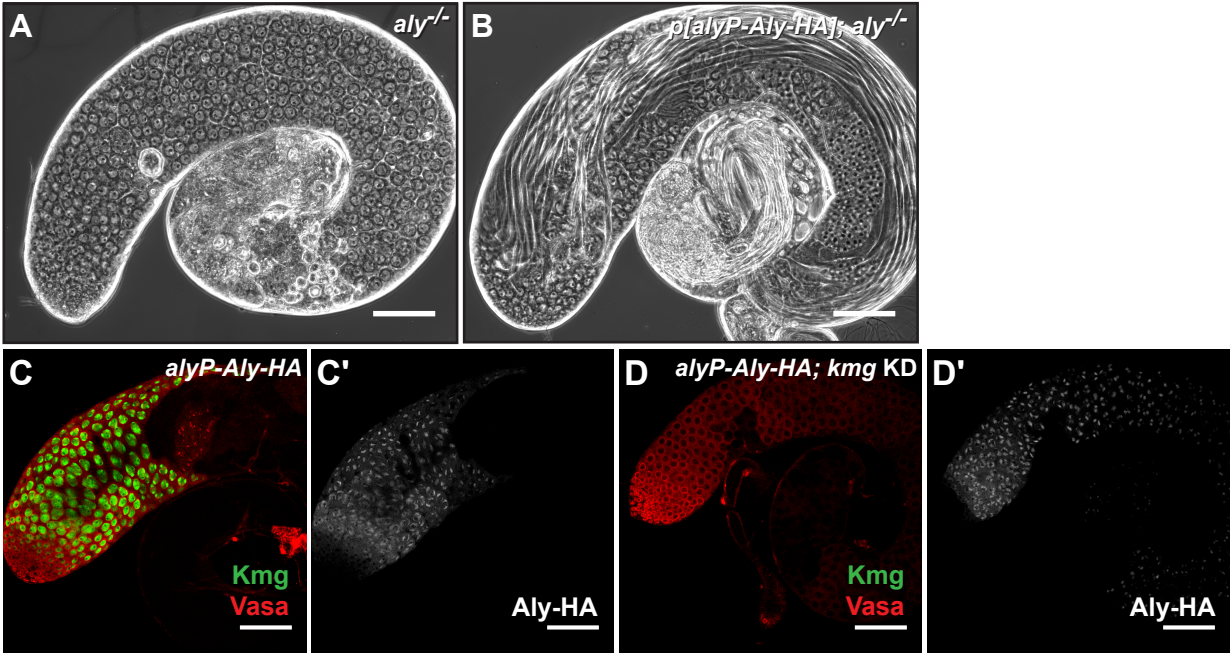
### **Fig. S9 Misexpression from cryptic promoters**

(A) Heatmap representation of normalized RNA-seq read counts of 143 transcripts that were misexpressed in *kmg* KD testes and also normally expressed in wild-type heads, centered at transcription start sites (TSSs)  $\pm 250$ bp annotated based on Ensembl database (BDGP6.82). Darkest (black) color: read count value at the 5th percentile. Brightest (yellow) color: read count value at 95th percentile. Read counts were plotted according to the direction of transcription from 5' to 3'.

(B) Box plot representation of distances from annotated TSSs in Ensembl database and the nearest TSSs predicted from transcript assembly by Cufflinks for the transcripts represented in (A). (whiskers) the most extreme data points excluding outliers.

(C and D) Relative locations with respect to the nearest annotated TSSs of predicted TSSs (of the transcripts represented in (A)).

Figure S10. Aly-HA transgene rescues *aly*<sup>-/-</sup> phenotype



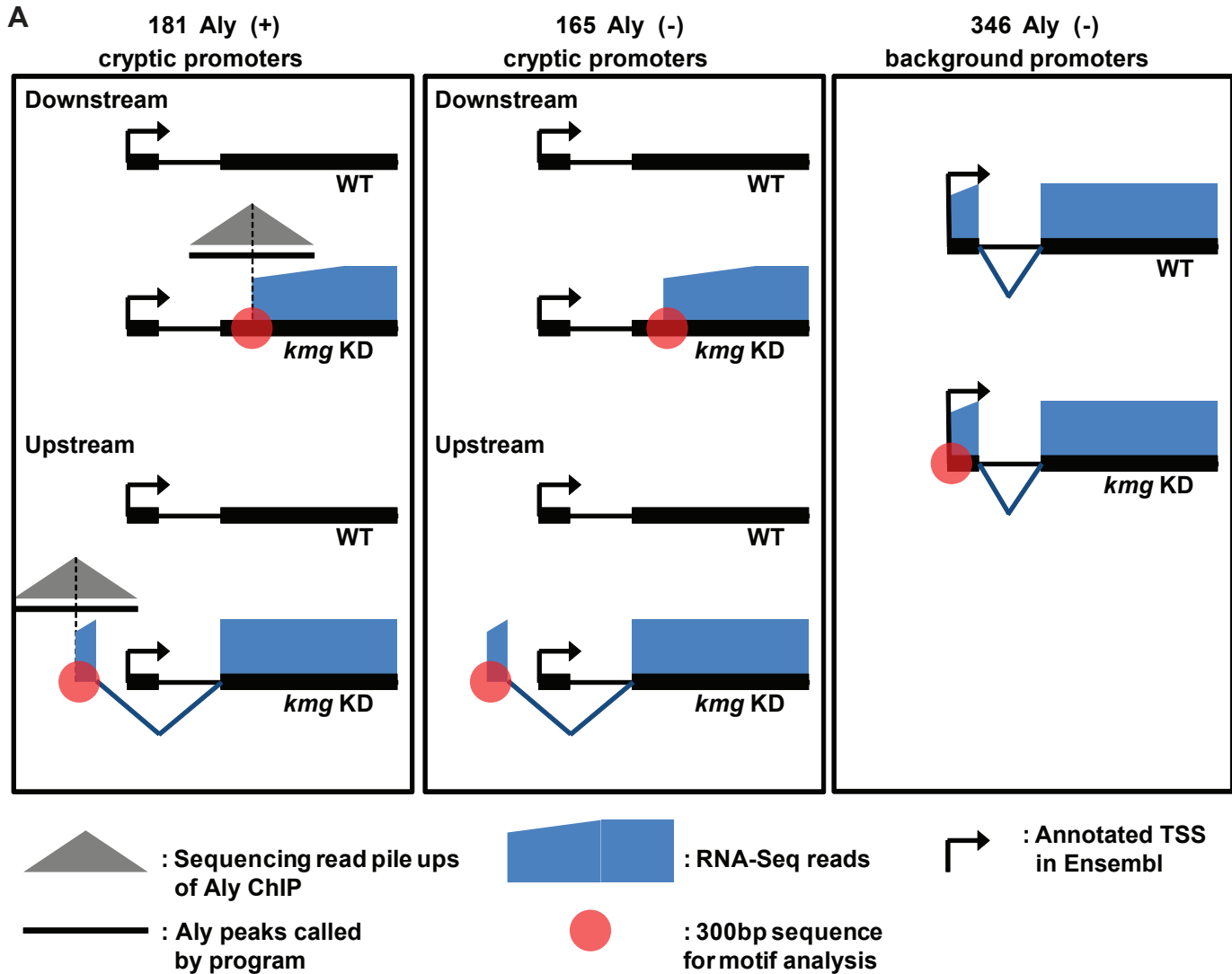
**Fig. S10 Aly-HA transgene rescues *aly*<sup>-/-</sup> phenotype**

(A and B) Phase-contrast images of (A) *aly* mutant (*aly*<sup>-/-</sup>) and (B) *aly* mutant rescued by a transgene containing the *aly* promoter driving expression of Aly-HA (*p[alyP-Aly-HA]; aly*<sup>-/-</sup>).

(C - D') Immunofluorescence images (C and D, merge) (Red) Vasa, (Green) Kmg; (C' and D') Aly-HA in testes from (C and C') *alyP-Aly-HA* and (D and D') *alyP-Aly-HA; kmg* KD.

Scale bars: 100μm.

**Figure S11. AGYWGGC motif at cryptic promoters bound by Aly in *kmg* KD testes**



**B**

	E-value	Primary sequence	Control sequence	# of 181 Aly(+) cryptic promoters with motif	# of 165 Aly(-) cryptic promoters with motif	# of 346 Aly(-) background promoters with motif
	$1.2 \times 10^{-25}$	181 Aly (+) cryptic promoters	346 Aly (-) background promoters	116/181	32/165	19/346
	> 0.05	165 Aly (-) cryptic promoters	346 Aly (-) background promoters	27/181	53/165	40/346

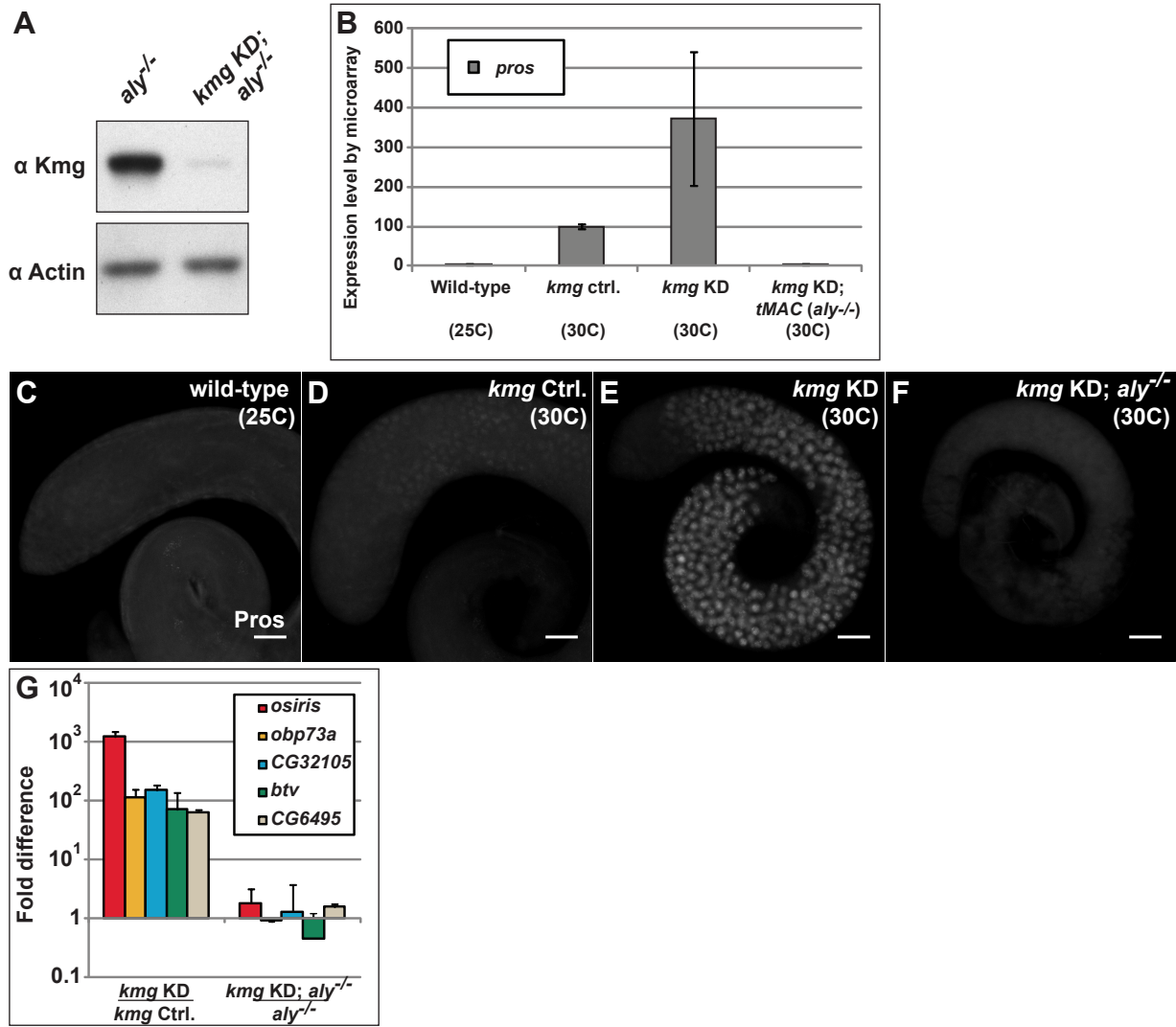


**Fig. S11 AGYWGGC motif at cryptic promoters bound by Aly in *kmg* KD testes**

(A) Schematic representation of classes of genes used for motif analyses. “181 Aly (+) cryptic promoters” include a set of 181 DNA sequences centered at the location of the TSSs at cryptic promoters that coincide with peaks of enrichment by CHIP for Aly in *kmg* KD testes defined in Fig. 4. “165 Aly (-) cryptic promoters” include a set of 165 DNA sequences centered at the location of the TSSs at cryptic promoters where no enrichment was detected after CHIP for Aly from *kmg* KD testes. “346 Aly (-) background promoters” include a set of 346 DNA sequences that centered at the location of the TSSs of genes that are expressed in wild-type testes but did not coincide with Aly peaks at the TSS. In addition, the ‘background’ genes were located in close proximity to the 346 cryptic promoters analyzed in the first two classes to reduce potential bias based on chromosomal location. All promoter DNA sequences were 300bps centered at TSSs. Genomic coordinates for TSS positions are listed in the table S6.

(B) Position weight matrix representation of sequence motifs identified by discriminative motif search with MEME (53) using “181 Aly (+) cryptic promoters” and, separately, “165 Aly (-) cryptic promoters” as primary sequences and the “346 Aly (-) background promoters” as control sequences. The number of motifs present was identified by FIMO (54) using a *p* value cut off 0.0001.

**Figure S12. Somatic misexpression is dependent on Aly function**



**Fig. S12 Somatic misexpression is dependent on Aly function**

(A) Western blot of Kmg protein in testis lysates from *aly*<sup>-/-</sup> mutant and *kmg* KD; *aly*<sup>-/-</sup> mutant flies.

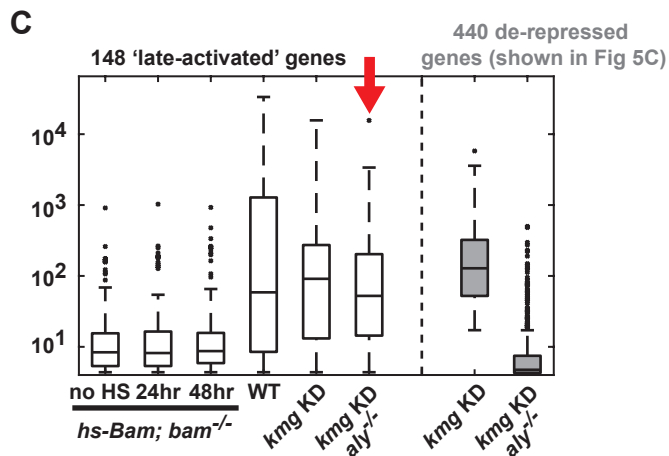
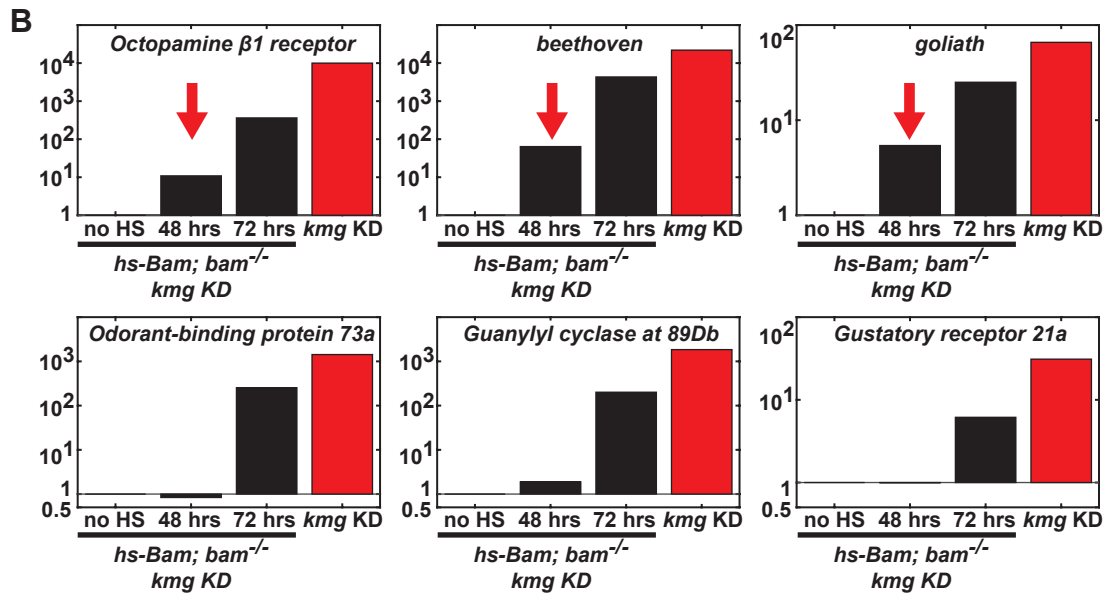
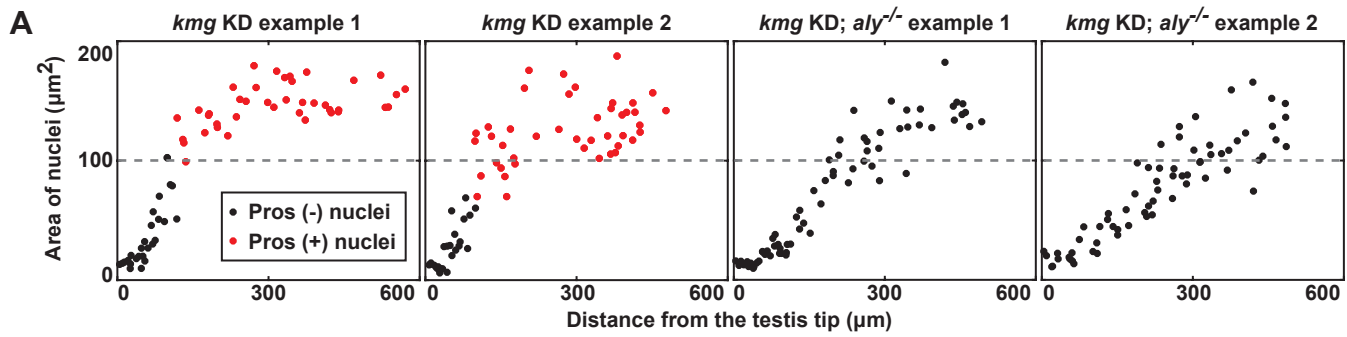
(B) Expression levels of *pros* mRNA by microarray in wild-type (25°C), *kmg* sibling control (no Gal4 driver) (30°C), *kmg* KD (30°C), or *kmg* KD; *aly*<sup>-/-</sup> (30°C) testes.

(C-F) Immunofluorescence images of Pros in testes from (C) wild-type (25°C), (D) *kmg* sibling control (no Gal4 driver) (30°C), (E) *kmg* KD (30°C) or (F) *kmg* KD; *aly*<sup>-/-</sup> (30°C) flies.

(G) qRT-PCR measurements of the levels of 5 transcripts upregulated in *kmg* KD based on microarray. Expression in *kmg* KD and *kmg* KD; *aly*<sup>-/-</sup> testes compared to respective controls wild-type for Kmg function. Error bars represent standard deviation (n = 3).

Scale bars: 100µm in C- F.

**Figure S13. Germ cells in *kmg* KD; *aly*<sup>-/-</sup> differentiate to reach a stage equivalent to the stage of the germ cells in *kmg* KD**



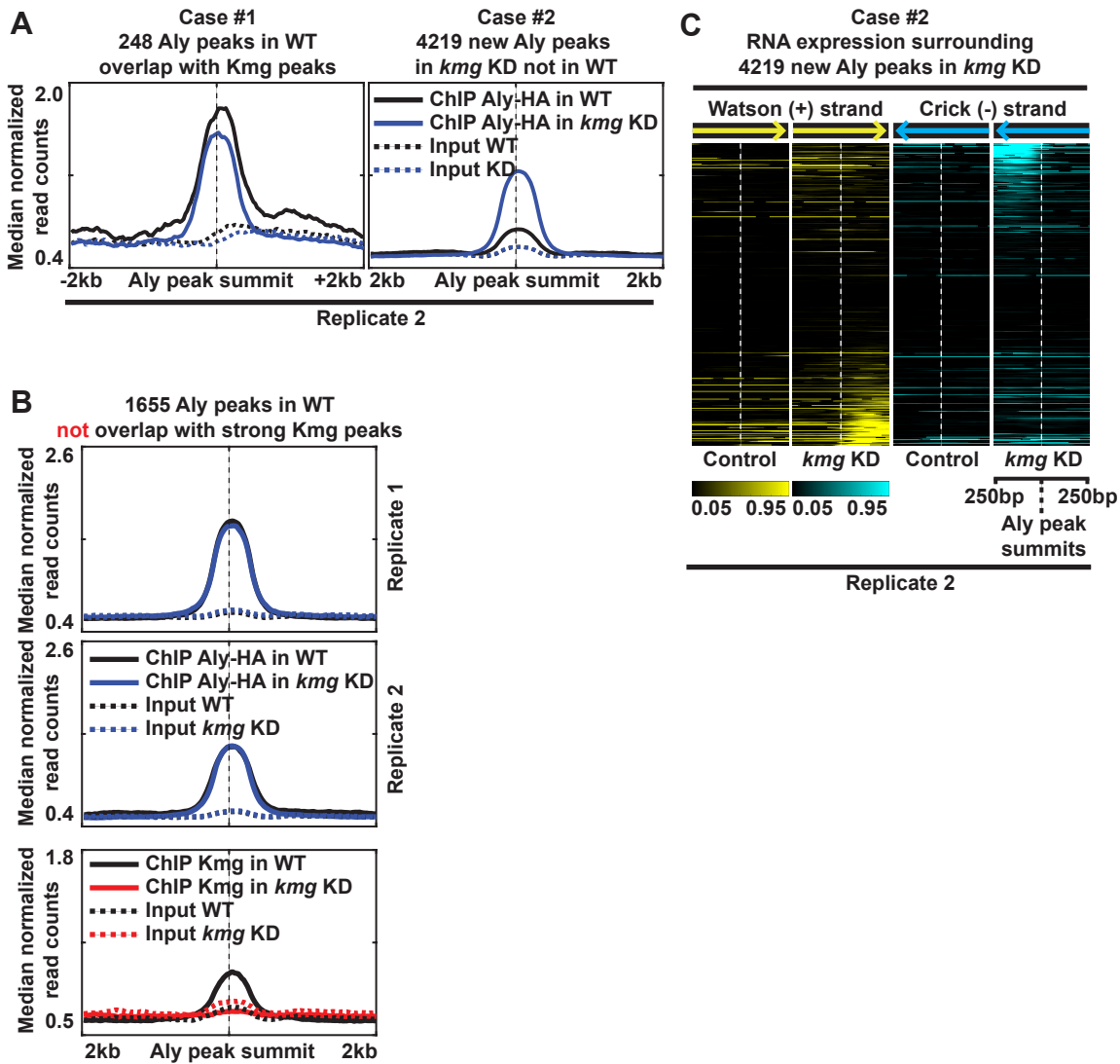
**Fig. S13 Germ cells in *kmg* KD; *aly*<sup>-/-</sup> differentiate to reach a stage equivalent to the stage of the germ cells in *kmg* KD**

(A) Scatter plot of the size of nuclei compared to distance from the testis tip of germ cells in *kmg* KD or *kmg* KD; *aly*<sup>-/-</sup> testes. (Black dots) Pros negative and (Red dots) Pros positive nuclei.

(B) qRT-PCR measurements of levels of six transcripts upregulated in *kmg* KD testes based on as germ cells progress through the *in vivo* differentiation protocol. Expression levels in (Black) *hs-Bam*; *kmg* KD; *bam*<sup>-/-</sup> (no heat shock, 48 hours and 72 hours post heat shock) and in (Red) *kmg* KD testes were compared by setting the expression level in *hs-Bam*; *kmg* KD; *bam*<sup>-/-</sup> testes without heat shock as 1.

(C) Box plot of expression of (white boxes) 148 late-activated genes in *hs-Bam*; *kmg* KD; *bam*<sup>-/-</sup> (no heat shock, 48 hours and 72 hours post heat shock), wild-type, *kmg* KD and *kmg* KD; *aly*<sup>-/-</sup> testes and (gray boxes) 440 de-repressed genes in *kmg* KD and *kmg* KD; *aly*<sup>-/-</sup> testes. (whiskers) the most extreme data points excluding outliers.

# Figure S14. Replicate for Aly ChIP-Seq and RNA-Seq expression of different classes of Aly bound genes



**Fig. S14 Replicate for Aly ChIP-Seq and RNA-Seq expression of different classes of Aly bound genes**

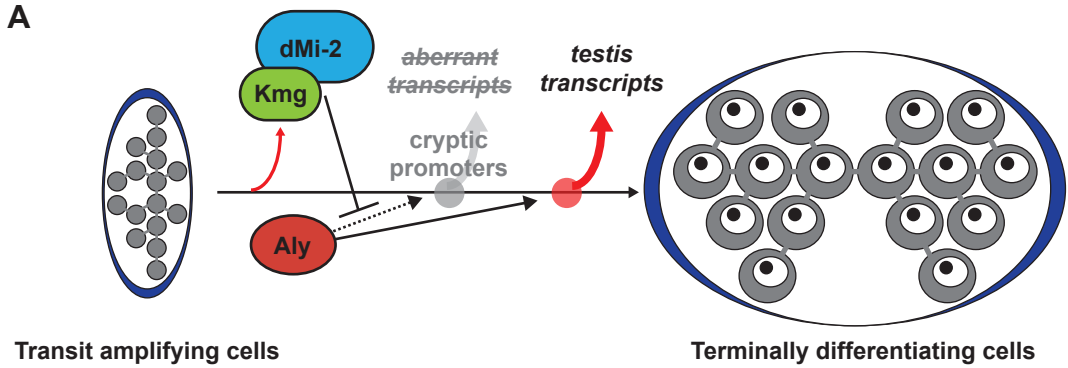
(A) Data from an independent replicate showing median profile of Aly ChIP (solid lines) and corresponding input (dotted lines) signals centered at (Case #1, left) 248 Aly peaks in wild-type that overlap with Kmg peaks and (Case #2, right) 4,219 new Aly peaks in *kmg* KD not detected in control testes. For the 248 Aly peaks in Case #1 - because these peaks were present at the promoters of genes with known strand information, read counts were plotted according to the direction of transcription from 5' to 3'.

(B) Median profile of reads from two replicate Aly and one representative Kmg ChIP (solid lines) and corresponding input (dotted lines), plotted centered at Aly peaks for 1,655 Aly peaks detected in wild-type testes that did not overlap with significant Kmg peaks.

(Note: Black and Blue solid lines coincide for the Aly ChIP data).

(C) Data from an independent replicate showing heatmap representation of normalized RNA-Seq read counts centered at 4,219 new Aly peaks that were not detected in wild-type testes but appeared in *kmg* KD testes (Case #2). The darkest color (black) represents the read count value at the 5th percentile and the brightest color (yellow for reads mapped to Watson (+) strand or cyan for reads mapped to Crick (-) strand) represents values at the 95th percentile among all values in *kmg* KD samples.

**Figure S15. Model of Kmg and dMi-2 blocking promiscuous activation at cryptic promoters by Aly**





**Fig. S15 Model of Kmg and dMi-2 blocking promiscuous activation at cryptic promoters by Aly**

(A) Model for selective gene activation by Kmg and dMi-2.

**Table S4. List of chromatin regulators screened**

<b>Gene symbol</b>	<b>VDRC ID</b>	<b>Phenotype</b>
Kdm4a	107868	No noticeable defects
Kdm4b	110158	No noticeable defects
CoRest	104900	Differentiation defect (post meiotic cells observed)
Lsd-1	106147	Differentiation defect (post meiotic cells observed)
Sin3A	105852	No noticeable defects
HDAC1 (Rpd3)	46929	No noticeable defects
esc	5690	No noticeable defects
E(z)	107072	No noticeable defects
Sce	106328	No noticeable defects
Su(var)205 (HP1)	107477	No noticeable defects
G9a	110662	No noticeable defects
egg (SetDB1)	101677	No noticeable defects
Su(var)3-9	101494	Arrest of early spermatocytes
dMi-2	107204	Spermatocyte arrest

\* Knock down was driven by bam-Gal4 driver as described in the materials and methods

**Additional Data table S1 (separate excel file)**

List of early differentiation genes upregulated at 24hours post heat shock expression of Bam

**Additional Data table S2 (separate excel file)**

List of 652 Aly-dependent spermatid differentiation genes

**Additional Data table S3 (separate excel file)**

List of 440 normally somatic genes that are misexpressed in *kmg* KD testes

**Additional Data table S5 (separate excel file)**

List of 680 Kmg bound genes and genomic locations of associated peaks

**Additional Data table S6 (separate excel file)**

List of 346 transcription start sites originated from cryptic promoters represented in Fig.4F

**Additional Data table S7 (separate excel file)**

List of genomic coordinates for Aly binding sites (peaks) based on different categories specified in Fig. 6B and fig. S14 (Case #1 and Case #2)

**Additional Data table S8 (separate excel file)**

List of 148 'late-activated' genes represented in fig. S13C

Additional Data table S1 (separate excel file) List of early differentiation genes upregulated at 24hours post heat shock expression of Bam

\* Transcripts that were upregulated in 24hours post heat shock expression of Bam in hs-bam; bam-/- mutant testes but not in 'no hs-bam transgene' control

\*Data were background adjusted and normalized using R program (v3.0.2) with the BioConductor package GCRMA. All values are log2 transformed. (Questions: Jongmin Kim / devtxn@gmail.com)

- 1 bam[-/-]\_noHS
- 2 bam[-/-]\_24hrPHS
- 3 hsBam;bam[-/-]\_noHS\_rep1
- 4 hsBam;bam[-/-]\_noHS\_rep2
- 5 hsBam;bam[-/-]\_24hrPHS\_rep1
- 6 hsBam;bam[-/-]\_24hrPHS\_rep2
- 7 hsBam;bam[-/-]\_noHS\_average
- 8 hsBam;bam[-/-]\_24hrPHS\_average

Probeset_ID_Affym	Gene Title	Gene Symbol	1	2	3	4	5	6	7	8	Fold	Ctrl_Fold	Statistics
1640229_at	wurstfest	Fest (CG9975)	2.18625	2.18625	2.18625	2.18625	9.580355	8.258077	2.18625	8.919216	6.732966	-8.4E-10	0.009505
1637121_at	Testis specific RRM protein	Rbp4	3.395416	4.001944	3.07508	3.07508	10.38707	9.095902	3.07508	9.741488	6.666408	0.606529	0.009248
1629532_at	---	CG18157	2.185906	2.186094	2.186199	2.186094	9.253741	7.384333	2.186146	8.319037	6.13289	0.000188	0.022449
1623784_at	CG5732	Gld2	5.691277	5.466428	5.308598	5.035598	10.81042	10.16814	5.172098	10.48928	5.317183	-0.22485	0.004279
1628133_at	kumgang	kmg (CG5204)	2.192001	2.185773	2.212269	2.198553	8.071082	6.821052	2.205411	7.446067	5.240656	-0.00623	0.013929
1630834_at	Stromalin-2	SA-2	5.140898	5.709339	5.158181	5.307385	9.586513	9.221841	5.232783	9.404177	4.171393	0.568441	0.002223
1628745_at	---	CG18313	7.093797	7.583147	7.246872	7.515402	11.30116	9.95714	7.381137	10.62915	3.248012	0.48935	0.041748
1626152_at	Ror	Ror	3.821514	3.789631	3.739478	2.997692	6.548214	6.660879	3.368585	6.604547	3.235961	-0.03188	0.013175
1634559_at	---	CG7213	2.187999	2.187999	2.187999	2.186886	5.413912	4.708485	2.187443	5.061198	2.873756	0	0.014732
1634343_at	---	Rpt6R	4.932722	5.117017	4.583462	4.475763	7.547373	6.730623	4.529612	7.138998	2.609386	0.184295	0.024025
1637654_at	---	CG10566	6.163982	6.090938	6.881646	6.101289	9.203502	8.539348	6.491467	8.871425	2.379958	-0.07304	0.043355
1634125_at	---	CG30440	2.686935	2.87673	2.854122	2.796047	4.855959	4.844859	2.825084	4.850409	2.025324	0.189795	0.000213
1639781_at	---	CG13402	3.142273	3.26372	5.958622	6.103223	8.24254	7.82993	6.030923	8.036235	2.005312	0.121447	0.011676
1638469_s_at	---	CG3857	3.661793	3.74662	4.586525	3.736063	6.263576	6.065883	4.161294	6.164729	2.003435	0.084826	0.04435
1630124_at	---	CG5514	5.87034	6.306388	6.548535	6.654589	8.281618	8.57439	6.601562	8.428004	1.826442	0.436048	0.007188
1633135_s_at	---	CR18854	10.71728	10.61202	10.66197	10.20881	12.56129	11.87718	10.43539	12.21923	1.783846	-0.10526	0.049043
1625005_s_at	Adenine nucleotide translocase 2	Ant2	10.05562	10.21119	9.155269	9.80314	11.48865	11.02282	9.479204	11.25573	1.776529	0.15557	0.046917
1632683_s_at	gag-int-pol	copaGIP	11.98935	12.77851	11.69823	12.21175	13.33952	13.86503	11.95499	13.60228	1.647283	0.789157	0.046311
1633566_at	---	CG7694	7.036138	7.069233	6.565311	5.959411	7.847175	7.709841	6.262361	7.778508	1.516147	0.033094	0.039507
1640945_at	longitudinals lacking	lola	7.593963	7.636421	7.433754	7.070622	8.733726	8.577154	7.252188	8.65544	1.403252	0.042458	0.019282
1631146_at	alphabet	alph	6.929422	6.538651	7.512792	7.133195	8.745129	8.692347	7.322994	8.718738	1.395745	-0.39077	0.018332
1625749_at	---	CG14937	5.19819	5.140449	4.947168	5.036768	6.51202	6.249397	4.991968	6.380709	1.388741	-0.05774	0.009834
1627649_at	Meltrin-like	Neu3	4.824477	5.088733	5.060448	5.166964	6.463228	6.192026	5.113706	6.327627	1.213921	0.264255	0.014099
1631309_at	---	CG7280	6.192013	6.582864	5.964484	5.572702	7.00254	6.710937	5.768593	6.856738	1.088146	0.390851	0.046851
1629981_at	lamin C	LamC	9.267005	9.618964	9.042937	8.962578	10.16112	9.972852	9.002757	10.06698	1.064227	0.351959	0.009123
1625569_at	---	CG7565	4.478482	4.875171	4.729671	4.618412	5.667539	5.744034	4.674042	5.705787	1.031745	0.396689	0.004254
1632855_at	---	CG7352	6.342008	6.224471	6.273802	5.873788	7.185008	7.003893	6.073795	7.09445	1.020656	-0.11754	0.04329





















Additional Data table S3 (separate excel file) List of 440 normally somatic genes that are misexpressed in kmg KD testes

\* 440 transcripts that were specifically upregulated in kumgang KD compared to control (no Gal4 driver) testes

\*Data were background adjusted and normalized using R program (v3.0.2) with the BioConductor package GCRMA.

Samples in the following data were normalized together with bam-/-, aly-/-, sa-/-, wild-type data from GSE28728. All values are log2 transformed.

(Questions: Jongmin Kim / devtxn@gmail.com)

- 1 kmg\_Ctrl1
- 2 kmg\_Ctrl2
- 3 kmg\_KD1
- 4 kmg\_KD2
- 5 kmg\_KD\_aly1
- 6 kmg\_KD\_aly2
- 7 dMi2\_Ctrl1
- 8 dMi2\_Ctrl2
- 9 dMi2\_KD1
- 10 dMi2\_KD2

Probeset_ID_Affy	Gene Title	Gene Symbol	1	2	3	4	5	6	7	8	9	10
1638261_at	Osiris	Osi22	2.094744	2.094744	12.49595	12.43105	2.094744	2.094744	2.094744	2.094744	10.67451	10.25222
1630210_at	---	CG13027	2.174024	2.169412	11.61154	11.91536	2.129902	2.130545	2.129631	2.129902	9.878833	8.858814
1624528_at	Guanylyl cyclase at 89Db	Gyc-89Db	2.214337	2.152517	11.05808	11.42797	6.847564	5.866968	2.209103	2.517948	9.138549	8.420059
1626243_at	---	CG11626	2.338449	2.282205	11.36126	11.37162	5.035243	4.370503	2.353419	2.338449	5.405932	5.056324
1638335_at	---	CG18493	2.170815	2.10314	11.17844	11.10497	2.100917	2.100917	2.337011	2.10314	5.980875	5.06424
1638967_at	---	---	2.225336	2.225336	11.37727	10.91184	2.225336	2.181834	2.225336	2.222933	7.20216	6.348586
1634005_at	---	CG7906	2.094744	2.094744	10.97532	10.61324	2.094744	2.094744	2.094744	2.295935	7.896059	6.902331
1635937_at	--- /// ---	CG4500 /// Dsec	2.094744	2.094744	11.02051	10.32873	2.094744	2.094744	2.094744	2.094744	4.967615	4.503096
1632215_at	---	CG6296	2.094744	2.094744	10.81125	10.37465	2.094744	2.094744	2.094744	2.094744	6.932155	5.755239
1630831_at	---	CG7695	2.096138	2.096138	10.43627	10.41061	2.096138	2.161749	2.096138	2.096138	2.994705	3.004045
1637660_at	---	CG5150	2.094744	2.094744	10.76771	9.940625	2.523838	2.094744	2.169869	3.164808	9.177873	8.868827
1624259_at	---	CG32040	2.102129	2.096602	10.31892	10.12371	4.07592	2.646645	2.102129	2.117699	8.848435	8.358433
1631611_at	CG33983	obst-H	2.094744	2.094744	10.35314	9.804401	2.094744	2.094744	2.223404	2.17667	4.202425	3.826059
1625216_at	---	CG13724	2.13439	2.094744	10.01378	10.10771	2.094744	2.094744	2.094744	2.094744	5.39912	4.1133
1629761_at	--- /// ---	CG17780 /// CG	2.455561	2.563891	10.52681	10.32194	3.595825	3.439371	2.747424	2.455561	8.753031	7.696187
1624914_at	---	CG8690	2.094744	2.094744	10.42357	9.530886	2.111341	2.094744	2.801197	2.094744	6.895717	5.946539
1628296_at	polypeptide GalNAc transferase 4	pgant4	2.346944	2.456073	10.39901	10.1242	2.33838	2.410637	3.407016	2.456073	6.66579	5.799627
1628094_at	---	CG17639	2.094744	2.094744	9.85415	10.00664	2.094744	2.094744	2.094744	2.094744	6.539587	5.353942
1623971_at	---	CG9150	2.513262	2.39621	10.56035	9.850616	4.12645	3.034356	2.541639	2.596756	9.687217	9.220441
1637403_at	---	CG7953	2.216327	2.240892	9.925633	9.995674	2.141487	2.172419	2.172419	2.177299	2.520541	2.34613
1623396_at	---	CG13875	2.14474	2.14474	10.01359	9.582122	3.252785	3.119359	2.135309	2.14474	8.028679	7.153959
1638775_at	Multi drug resistance 50	Mdr50	2.33577	2.424432	9.912347	10.02058	2.357976	2.33577	2.33577	2.33577	4.695617	3.393004
1639559_at	---	CG6431	2.094744	2.094744	9.790586	9.515344	2.439256	2.094744	2.094744	2.094744	7.983641	7.168417
1640990_at	---	CG13998	2.094744	2.106591	9.906043	9.378509	2.094744	2.094744	2.094744	2.094744	6.052677	3.914609

1639636_at	CG1869	Cht7	2.30633	2.300928	9.518618	10.1322	4.912617	4.309863	2.30633	2.310081	10.9025	10.1638
1636249_at	7B2	7B2	2.438234	2.705277	10.06782	10.09572	3.301092	2.521641	2.418686	2.479852	10.07793	9.762089
1622900_at	Gustatory receptor 59d	Gr59d	2.117918	2.117918	9.406127	9.835242	2.117918	2.117918	2.117918	2.117918	5.722694	5.866098
1626859_at	---	CG32374	2.094744	2.094744	9.444065	9.535612	2.094744	2.094744	2.094744	2.094744	5.268691	5.080897
1627288_a_at	---	---	2.440309	2.333287	9.806025	9.748638	2.399883	2.333287	2.455698	2.434132	5.089591	4.973507
1639190_at	masquerade	mas	2.888057	2.908957	10.42267	10.11632	3.757282	2.965012	2.866832	2.775632	4.803554	3.291355
1635488_at	poor gastrulation	pog	2.162943	2.162943	9.661323	9.314451	2.181635	2.162943	2.198338	2.162943	5.418375	2.739203
1632566_at	---	CG11318	2.094744	2.094744	9.085713	9.672544	2.094744	2.094744	2.094744	2.094744	5.766257	5.657469
1626341_at	CG14122	Smyd4	3.509971	3.274552	10.9419	10.4095	8.438308	7.416012	3.082826	3.210193	8.098948	7.367011
1633123_at	---	CG7201	2.094902	2.094744	9.471304	9.202748	3.793907	2.117753	2.094744	2.103231	7.711035	6.834619
1635467_a_at	---	CG7381	2.338828	2.100946	9.215081	9.623597	3.607386	3.592998	2.110111	2.126774	5.886483	4.83544
1629425_at	---	CG13157	2.094744	2.094744	9.295206	9.288008	2.094744	2.094744	2.094744	2.094744	6.262162	5.282334
1633900_at	---	CG14044	2.109866	2.09737	9.546218	8.960886	4.041652	2.249114	2.09737	2.09737	6.602277	5.554365
1632299_at	alphaPS4	alphaPS4	2.296778	2.513946	9.532976	9.52495	7.193548	7.096359	2.312942	2.435544	7.567889	6.990795
1630915_at	---	---	2.094744	2.094744	9.227403	9.153752	2.094744	2.094744	2.094744	2.148653	2.876979	2.150443
1638319_at	inactivation no afterpotential D	inaD	2.094744	2.094744	9.237066	9.141427	2.094744	2.094744	2.094744	2.094744	6.402143	4.454074
1640983_at	---	CG5909	2.110529	2.110529	9.389951	8.988484	2.211977	2.110529	2.110529	2.124081	2.094744	2.101752
1626959_at	Odorant-binding protein 58b	Obp58b	2.101954	2.094744	9.594538	8.739113	7.553783	6.546812	2.291807	2.262435	7.004165	6.067739
1627600_at	---	CG4770	2.176035	2.151765	9.335856	9.073212	2.585501	3.73857	2.229458	2.216492	6.971294	6.019116
1624829_at	---	CG33288	2.204581	2.241192	9.262692	9.214789	2.645639	2.323435	2.204581	2.204581	8.269154	7.286706
1625737_at	---	CG12133	3.200372	3.004938	10.1855	9.932448	2.990586	2.873494	4.193443	4.433194	8.568029	7.940979
1626911_at	---	CG6495	2.191624	2.202809	9.159036	9.127896	2.916777	2.897859	2.311831	2.331237	8.757091	7.896756
1641605_at	PIP82	PIP82	2.094744	2.094744	9.403833	8.652106	2.094744	2.094744	2.242127	2.35949	5.708006	4.653233
1624507_at	---	CG31268	2.094744	2.094744	9.25222	8.797182	2.094744	2.094744	2.094744	2.094744	6.175894	5.423257
1629394_at	CG15007	Cpr64Ab	2.662351	2.743339	9.493553	9.720596	3.146927	2.963495	3.141655	3.02138	4.641281	4.048892
1629860_at	--- /// ---	CG6462 /// Dsin	2.094744	2.094744	8.927882	9.066607	2.094744	2.094744	2.094744	2.094744	4.366005	3.510155
1626937_s_at	trpgamma	trpgamma	2.2163	2.202075	9.243432	8.976192	2.2163	2.254496	2.244328	2.2163	8.735685	7.741084
1624428_at	Eig71Ei	Eig71Ei	2.094744	2.094744	8.977476	8.977807	2.094744	2.094744	2.094744	2.094744	4.641291	4.44402
1634438_at	Munster	Pph13	2.124584	2.123848	9.123436	8.872406	2.819595	2.124584	2.124584	2.124584	8.34877	7.268989
1624434_at	tolloid	tld	2.122606	2.335775	8.907757	9.281681	2.602878	2.122606	2.122606	2.150974	7.393029	6.48375
1640809_at	---	CG12105	2.094744	2.094744	8.813442	9.097083	2.111527	2.094744	2.094744	2.094744	4.735564	4.525031
1641248_at	beat-VI	beat-VI	2.094744	2.094744	8.677417	9.17356	2.173824	2.094744	2.094744	2.094744	6.027056	5.352148
1635406_at	cGMP-dependent protein kinase	Pkg21D	2.189776	2.189776	9.28327	8.665095	2.22525	2.189776	2.189776	2.189776	3.550898	2.191217
1640390_at	---	CG3649	2.094744	2.094744	8.910543	8.80549	2.094744	2.094744	2.094744	2.094744	6.505115	5.515153
1633591_at	glide glide2	gcm2	2.364646	2.614094	8.641726	9.851414	2.188851	2.152274	2.669383	3.203276	7.015356	5.743852
1628611_at	---	CG11241	2.098617	2.106215	8.855738	8.842338	2.3927	2.307662	2.109463	2.098617	7.993186	7.231007
1624389_at	---	CG7526	2.104736	2.106133	8.577902	8.999909	6.552684	5.693932	2.094744	2.111859	7.444313	6.164812
1631097_at	---	CG15153	2.094744	2.094744	8.709448	8.813544	2.094744	2.094744	2.094744	2.094744	8.363594	7.590647
1639043_at	CG11824	CG34350	2.111803	2.111803	8.651091	8.836237	2.111803	2.111803	2.111803	2.111803	7.035786	4.835488
1625645_at	---	CR31822	2.75267	3.011613	9.169568	9.836818	3.267724	3.486025	2.462187	2.512895	8.587155	7.829541
1628918_at	---	CG17478	2.681623	2.711804	9.73541	8.894696	2.909845	3.52615	3.055319	3.633079	9.233502	8.70786
1639469_a_at	GTP cyclohydrolase	Pu	3.172527	3.538324	9.960129	9.98055	7.24837	6.772526	3.60669	3.999948	10.45586	9.823658
1630532_at	---	CG13091	3.314957	3.421258	10.15369	9.807406	4.099698	3.507739	3.383197	3.480329	9.339776	9.123705

1629846_at	---	CG11619	2.511423	2.531754	9.13348	9.125325	2.511423	2.119943	7.337624	6.859975	7.71351	6.837559
1624519_at	guanine nucleotide regulatory pr	Gbeta76C	2.828534	2.792046	9.313501	9.520156	3.10834	3.31018	3.11487	3.269812	5.187296	4.439572
1636287_at	--- /// --- /// --- /// GA1042	CG10592 /// Da	2.429175	2.233742	9.112705	8.712444	2.547555	2.429175	2.401791	2.463231	6.686762	5.376865
1627704_a_at	TNF Receptor Associated Factor 1	Traf4	2.526394	2.187213	9.035341	8.760141	3.1601	3.531339	2.447373	2.441112	5.486679	5.179232
1628411_at	---	---	2.545959	2.413727	9.235704	8.783827	3.230816	2.521988	2.328537	2.328537	5.459282	4.405797
1627413_at	CG14365	CG34383	2.288352	2.309527	8.259863	9.372077	2.288352	2.568868	2.279541	2.288352	3.181378	2.480834
1632461_at	---	CG31233	2.195461	2.195461	8.839822	8.577582	2.16274	2.191974	2.195461	2.195461	3.210731	2.609585
1635885_s_at	---	---	2.251167	2.244422	8.755767	8.75937	5.866448	5.373718	2.277687	2.201513	8.739131	8.50105
1635505_a_at	CG17274	Ir93a	2.182524	2.200971	8.811456	8.580036	2.204641	2.177588	2.22617	2.204641	5.853348	4.785841
1641146_at	scarlet	st	2.715848	2.747278	9.412499	9.042389	5.35303	5.30792	2.71235	2.765401	9.021584	8.668135
1625245_at	laccase-like	CG3759	2.152291	2.197562	8.712627	8.590316	3.144081	2.810722	2.189065	2.233978	7.881137	7.337477
1639401_at	maltase	LvpH	2.094744	2.094744	8.936857	8.171074	2.094744	2.094744	3.084208	2.094744	3.455426	2.172036
1629491_at	---	CG13318	2.809341	2.769549	9.396456	9.091901	2.62351	2.094744	2.972939	2.880454	6.192785	5.319938
1629932_at	yellow-d2	yellow-d2	2.094744	2.094744	8.649659	8.436929	2.094744	2.094744	2.094744	2.094744	5.114191	4.059002
1631100_at	Drosokinin receptor	Lkr	2.392038	2.430794	8.362257	9.341674	5.636286	5.611016	2.276119	2.435583	10.41633	9.944792
1630473_at	CG5468	TwdIM	2.094744	2.094744	8.58044	8.477899	2.094744	2.095925	2.094744	2.094744	2.632885	3.977729
1626529_at	CG12976	CG42337	2.118566	2.118566	8.534235	8.54047	2.118566	2.118566	2.118566	2.118566	5.519601	4.144752
1634991_at	---	CG8083	2.704772	2.94079	9.494832	8.948237	4.281954	5.503001	3.068447	2.968603	5.086502	5.007442
1637807_at	protein kinase C	inaC	2.094744	2.094744	8.82731	8.152342	3.280204	2.99371	2.094744	2.094744	3.236116	3.206391
1639720_at	CG6596	CG42269	2.094744	2.094744	8.342033	8.636806	2.094744	2.094744	2.094744	2.094744	6.118919	4.719736
1641643_at	---	CG33007	2.122923	2.126917	8.41856	8.565974	2.126917	2.231971	2.12492	2.137586	6.636511	5.586437
1630418_s_at	sarcomere length short	sals	2.590369	2.587246	8.913279	8.944194	2.65404	2.655605	2.439903	2.418673	5.309742	4.25727
1631265_at	---	CG6280	2.094744	2.094744	7.902649	8.940536	2.094744	2.094744	2.094744	2.094744	5.935852	5.338134
1625228_at	vesicular GABA transporter	VGAT	2.094744	2.094744	8.654069	8.15965	2.094744	2.094744	2.094744	2.094744	2.339634	2.095288
1626098_at	---	CG11453	2.337105	2.296135	8.608203	8.621375	2.700148	3.058521	2.337105	2.337105	5.523368	4.559472
1637998_at	CG12330	Cpr65Az	2.206099	2.209222	8.367175	8.528283	2.306028	2.306028	2.261999	2.256654	2.773126	2.289172
1623243_at	---	CG5656	2.365834	2.238454	8.43373	8.645063	2.443415	2.654333	2.300768	2.377363	8.723801	8.098084
1636460_at	Jonah 65A	Jon65Ai	2.222504	2.224143	8.537792	8.366446	2.944596	2.513077	2.222504	2.223452	3.464576	3.227034
1641220_at	prominin	prom	2.194926	2.194926	8.13863	8.704088	2.194926	2.194926	2.168559	2.194926	6.845862	6.140668
1635732_at	---	CG6915	2.128439	2.128439	8.402632	8.291799	2.128439	2.121354	2.128439	2.128439	7.79313	7.196396
1625203_at	---	CG9826	2.094744	2.094744	8.306707	8.317615	2.094744	2.094744	2.094744	2.094744	7.896385	7.062338
1622901_at	---	CG9993	2.329569	2.349831	8.597948	8.432163	2.369358	2.502051	2.363639	2.363639	6.532824	6.099062
1639254_at	---	CG32036	2.110285	2.110285	8.206669	8.338465	2.471585	2.549201	2.110285	2.125825	5.280734	5.021419
1625353_at	Drosokinin receptor	CG34127	2.126144	2.145661	8.705445	7.84885	2.266761	2.165177	2.165177	2.094744	5.653901	4.764221
1634928_at	Ecdysone-inducible gene E2	ImpE2	2.094744	2.094744	7.916396	8.537021	2.926386	2.641812	2.094744	2.094744	4.888511	3.487671
1625873_at	---	CG15661	2.153575	2.153575	8.512889	8.049123	2.171109	2.812235	2.153575	2.153575	6.607055	5.712265
1624671_at	---	CG17782	2.094744	2.094744	8.315634	8.015039	2.094744	2.094744	2.094744	2.094744	4.123679	3.974143
1637961_at	zerknult	zen	2.728942	2.685117	9.029089	8.524166	4.574602	3.589193	2.736839	2.619234	7.190487	6.65456
1629639_at	---	CG14369	2.174651	2.135115	8.180941	8.153397	4.937969	3.112955	2.158472	2.199579	3.597552	2.690361
1636393_at	---	CG15005	2.094744	2.094744	8.349869	7.855925	2.094744	2.094744	2.094744	2.094744	2.197983	2.094744
1628454_at	pickpocket 12	ppk12	2.094744	2.105557	8.44034	7.768193	2.174308	2.094744	2.094744	2.235387	3.092905	2.235389
1624106_at	---	CG3790	2.307548	2.307548	8.694519	7.903179	2.643322	2.636924	2.307044	2.307548	7.769776	6.716807
1626238_at	---	CG31690	2.989326	2.358478	8.915446	8.409614	5.012574	4.406685	2.929102	2.929102	4.972111	3.734348



1630504_at	---	CG13830	2.098262	2.094744	7.992724	8.160615	4.603675	3.862074	2.098262	2.098262	6.261779	5.40803
1625657_at	---	CG32335	3.307583	3.307583	9.536402	8.938106	3.307583	3.24616	3.307583	3.307583	6.083838	6.04743
1636873_at	---	CG9068	2.094744	2.094744	7.9788	8.037553	2.094744	2.094744	2.094744	2.094744	7.140644	6.177881
1634821_at	CG30468	Ir52c	2.320843	2.372769	8.275833	8.118507	2.298194	2.339729	2.467892	2.403434	7.132653	6.113393
1635769_at	---	CG8773	2.094744	2.094744	7.883697	7.999926	2.094744	2.094744	2.094744	2.094744	4.993244	4.144204
1628535_at	---	CG33771	2.39789	2.39789	8.453886	8.012231	2.39789	2.39789	2.39789	2.39789	4.792957	3.821289
1630335_s_at	---	CG7084	2.116362	2.107521	7.783905	8.101324	2.281579	2.432375	2.107521	2.094744	7.437284	6.602456
1639331_at	Gustatory receptor 47a	Gr47a	2.200053	2.166531	8.109917	7.817573	2.165955	2.171479	2.166531	2.166531	7.421925	6.913105
1625058_at	yellow-d	yellow-d	2.884006	2.884006	8.867396	8.454153	3.630592	2.884473	2.884006	2.935117	7.517431	6.922549
1630468_at	---	CG15247	2.094744	2.094744	7.959905	7.705899	2.094744	2.094744	2.094744	2.094744	2.094744	2.094744
1635494_at	Monophenol oxidase	proPO-A1	2.860128	2.893897	8.562001	8.635651	5.879704	5.14988	2.86912	4.74187	8.235634	7.900374
1638057_at	---	CG18765	2.101215	2.101215	7.955597	7.640648	2.105367	2.0995	2.09857	2.101215	5.13891	4.400382
1633947_at	Cyp6a18	Cyp6a18	2.12166	2.125222	7.820372	7.805739	2.122254	2.121067	2.111081	2.12166	4.43434	5.031765
1627476_at	BBS8	BBS8	3.286138	3.484975	9.035663	9.059316	3.184435	3.001744	3.218842	3.222182	6.291915	5.710939
1625431_at	reverse polarity	repo	2.115754	2.115754	8.117351	7.405494	2.115754	2.115754	2.115754	2.115754	2.184349	2.862818
1630305_at	Fork Head	fkh	2.141818	2.141818	7.894142	7.670602	2.141818	3.515605	2.141818	2.141818	2.566086	2.267774
1625077_at	---	CG30265	2.094744	2.094744	7.618883	7.823122	2.094744	2.094744	2.094744	2.094744	5.581091	5.122245
1638360_at	Organic anion transporting polyp	Oatp26F	2.307476	2.347791	7.999616	7.903173	7.050113	5.867778	2.268054	2.347791	7.550155	6.407747
1629935_at	---	CG13312	2.094744	2.170842	7.796776	7.710277	2.094744	2.094744	2.094744	2.094744	3.792215	2.285812
1623732_at	CG31410	Npc2e	2.256163	2.256163	7.551842	8.147224	2.256163	2.249529	2.246168	2.246168	6.987884	6.00556
1634097_s_at	--- /// --- /// ---	CG11407 /// CG	2.788343	2.722067	8.573852	8.098095	5.902287	5.604988	2.697542	3.110359	4.79382	3.990406
1629531_at	CG6460	TwdlK	2.233713	2.151432	7.965371	7.576472	2.300614	2.300614	2.151432	2.151432	3.568536	3.199348
1628850_at	---	CG7056	2.094744	2.094744	7.72094	7.611863	2.094744	2.115136	2.094744	2.094744	3.772927	2.326965
1631883_at	---	---	2.158672	2.158672	7.935018	7.52086	2.158672	2.158672	2.158672	2.158672	2.575059	2.158672
1627345_at	HDC15381	CG33342	3.425015	3.425015	9.120955	8.858907	3.308843	3.425015	3.419953	3.425015	6.014194	5.578546
1631882_at	---	CG10264	2.094744	2.141008	7.901117	7.446815	3.929335	2.290884	2.141008	2.154299	5.761557	4.46411
1640580_at	CG6185	Ir68a	2.372595	2.434989	8.000836	7.916982	2.993217	2.435908	2.372595	2.435908	6.398429	4.672155
1638983_at	beethoven	btv	2.28593	2.09568	7.658582	7.8101	3.176107	3.921758	2.110523	2.190673	6.342884	5.62451
1628967_at	Gene III	Eig71Ec	2.094744	2.094744	7.837819	7.41529	2.897806	2.123679	2.094744	2.094744	5.733897	5.716781
1638473_at	---	CG4386	2.286258	2.747097	7.765882	8.324187	2.094744	2.094744	2.171289	2.227306	5.615315	4.231462
1638012_at	Drosophila Protein O-mannosyltr	rt	2.306236	2.351623	7.955919	7.740543	2.103321	2.183192	3.277414	2.715084	3.51163	3.241829
1629726_at	---	CG10472	2.586786	2.5513	8.010595	8.134876	2.503729	2.755706	2.5513	2.446433	5.150771	3.944073
1626211_at	CG11928	CG34351	2.33331	2.267341	8.11188	7.491603	3.011717	2.992044	2.473608	2.176024	6.4582	5.815109
1630049_at	---	CG4461	3.3154	3.321873	8.940216	8.684933	6.456719	6.021936	2.95783	3.263098	8.039223	7.399153
1641001_at	pickpocket 20	ppk20	2.274186	2.230493	7.960066	7.50237	2.230493	2.209945	2.241395	2.231984	5.120519	5.655974
1624921_at	---	CG14459	2.101125	2.102728	7.522204	7.619458	2.095738	2.095738	2.172384	2.776548	6.082512	4.962902
1634139_at	Cyp301a1	Cyp301a1	2.262188	2.241752	8.089165	7.276041	3.303538	2.908685	2.241364	2.241752	5.000801	3.210586
1633708_at	Gustatory receptor 59b	Gr59b	2.162896	2.162896	7.788972	7.370743	2.18056	2.162896	2.14497	2.162896	6.317699	5.794061
1630356_at	CG13881	CG42377	2.146064	2.21636	7.731773	7.40458	2.115606	2.094744	2.166926	2.191497	4.345907	2.766706
1633077_at	Osiris	Osi20	2.324537	2.324758	7.647945	7.770222	2.309323	2.310397	2.324537	2.500381	2.424828	2.324537
1626764_at	---	CG10182	2.094744	2.094744	7.774632	7.181904	8.404658	7.784872	2.094744	2.094744	3.94615	3.632474
1634439_at	---	---	2.094744	2.094744	7.301916	7.593116	2.182271	2.094744	2.094744	2.094744	2.094744	2.094744
1635410_at	---	CG12766	3.147247	3.118796	8.551584	8.40294	5.266078	5.334784	3.534651	3.724189	6.761841	6.742049

1632767_at	Gustatory receptor 68a	Gr68a	2.094744	2.094744	7.34344	7.52108	2.094744	2.094744	2.094744	2.094744	3.169985	2.290854
1629693_at	---	CG15080	2.094744	2.094744	7.708051	7.148025	2.325199	2.42602	2.094744	2.224734	4.160153	3.767193
1628144_at	---	CG14273	2.572723	2.571361	8.282779	7.523564	2.838957	2.589274	2.572723	2.57068	3.613687	2.649973
1631795_at	CG2657	Ir21a	3.147492	3.090946	8.302006	8.581679	6.286121	6.420551	3.325675	3.200745	6.999365	7.237105
1629483_at	---	---	3.080701	3.150765	8.72591	8.146799	3.128968	2.749792	3.966362	3.128968	2.372845	2.51263
1625864_at	---	CG32105	2.094744	2.094744	7.444467	7.324341	2.123727	2.288917	2.094744	2.094744	3.400735	2.879858
1640524_at	gamma-glutamyl carboxylase	GC	3.062064	2.883701	8.416852	8.106657	6.312061	5.230478	2.277323	2.310666	6.157055	6.233302
1629926_at	Serpin 100A	Spn100A	2.102176	2.102176	7.719396	7.043233	2.102176	2.102176	2.102176	2.102176	2.416878	2.127081
1629601_at	E(spl) region transcript malpha	malpha	2.111043	2.111043	6.979939	7.792812	2.162817	2.111043	2.111043	2.111043	5.092286	3.941853
1634498_at	CG17152	Ir68b	2.094744	2.094744	7.173493	7.529053	2.094744	2.094744	2.094744	2.094744	3.986717	4.216562
1630014_at	NADPH oxidase	Nox	2.301528	2.375331	7.118796	8.06146	2.333663	2.34979	2.333663	2.333663	6.571675	5.565633
1628245_at	senseless-2	sens-2	2.423531	2.226389	7.638504	7.501295	2.226389	2.530162	2.46055	2.253478	6.889015	6.035083
1641176_at	Lgr3	Lgr3	4.047759	4.045709	9.310834	9.261741	7.26083	6.512219	6.154051	5.514185	7.22819	6.160792
1626802_a_at	Shaker	Sh	2.545076	2.816441	7.810238	8.025128	7.576584	8.038008	2.338725	2.340232	6.527157	6.892049
1635514_at	---	CG1273	2.276541	2.301754	7.287489	7.72445	3.422633	2.762039	2.114975	2.301754	6.839633	5.954293
1641242_at	Ugt86Di	Ugt86Di	2.094744	2.094744	6.857166	7.740609	2.094744	2.094744	2.094744	2.094744	6.445625	5.26975
1625982_at	agrin-like	SP2353	3.430425	3.388857	8.804887	8.416562	5.205463	3.575034	3.464687	3.347693	8.214568	7.150524
1632685_at	---	CG32603	2.094744	2.307706	7.923657	6.875781	2.094744	2.094744	2.094744	2.094744	2.094744	2.094744
1630171_at	CG6131	Cpr97Ea	2.150259	2.148209	7.250882	7.440794	2.316938	2.13727	2.67233	3.490562	3.181898	2.911003
1623022_at	---	CG15820	2.094744	2.094744	7.032722	7.534241	2.094744	2.094744	2.094744	2.094744	4.941434	4.627695
1625059_at	Leucokinin	Leucokinin	2.094744	2.094744	7.559284	6.999556	2.094744	2.094744	2.094744	2.094744	6.189936	4.836395
1635272_a_at	---	CG10205	2.096833	2.094744	7.187001	7.361835	2.094744	2.094744	2.094744	2.094744	2.09479	2.094744
1626929_at	CG9357	Cht8	2.116346	2.131491	7.692081	6.888806	2.682173	2.52024	2.137337	2.130883	4.173027	3.745511
1626309_at	Mucin 68D	Muc68D	2.10676	2.171993	7.335031	7.237499	2.10676	2.113415	2.115634	2.115634	6.101254	5.383626
1631236_at	lin-28	lin-28	2.175548	2.175548	7.540286	7.104181	2.175548	2.193568	2.175548	2.39137	3.599293	3.525487
1625779_at	forkhead domain 59A	fd59A	2.094744	2.094744	7.153041	7.326911	2.094744	2.475933	2.094744	2.094744	2.094744	2.097517
1638823_at	--- /// ---	CG30259 /// Dm	2.094744	2.094744	7.407781	7.064405	2.788898	2.206573	2.094744	2.094744	5.842359	5.325361
1625336_s_at	---	---	2.094744	2.094744	6.689605	7.741988	2.094744	2.094744	2.094744	2.094744	6.243588	5.138107
1627937_at	---	CG32413	2.567059	2.567059	8.033643	7.338996	2.567059	2.567059	2.634371	2.567059	4.392711	3.700488
1624082_at	Olfactory receptor 33B.3	Or33c	2.094744	2.094744	7.115085	7.229104	2.094744	2.094744	2.094744	2.094744	2.249586	2.098482
1641705_at	---	---	2.487532	2.416282	7.594343	7.453146	2.487532	2.31023	2.487532	2.343424	2.223386	2.271673
1622974_at	---	CG4000	2.094744	2.094744	7.263253	7.069117	2.094744	2.094744	2.094744	2.094744	6.53304	4.250834
1623484_at	vestigial	vg	2.123649	2.118846	6.88215	7.464631	4.739552	5.238953	2.121628	2.094744	7.904965	7.337639
1640192_at	nanchung	nan	2.274101	2.280496	7.323078	7.324528	2.449321	2.309507	2.302242	2.280496	3.493571	3.15532
1635226_at	lysyl oxidase-like 2	lox2	2.123988	2.123988	7.079739	7.196275	2.466119	2.331024	2.123988	2.123988	5.231878	4.261936
1640308_a_at	---	CG3216	2.098779	2.142291	7.203881	7.058031	4.085632	3.50299	2.518422	2.518422	4.02642	3.083828
1636135_at	---	CG13931	2.094744	2.094744	6.996041	7.182165	2.094744	2.094744	2.106584	2.103789	2.105451	2.094744
1637577_at	Zinc/iron regulated transporter-r	Zip3	3.357341	3.323595	8.418107	8.225225	4.975725	4.221781	3.777259	3.566646	5.209156	4.477107
1624681_at	---	---	2.205977	2.205977	7.367898	7.006029	2.58091	2.220646	2.205977	2.205977	4.918929	3.719419
1639262_at	--- /// ---	CG11669 /// Dse	2.094744	2.094744	7.302424	6.841359	2.094744	2.094744	2.094744	2.373874	5.777679	5.33776
1622987_at	CG15325	Ir7g	2.094744	2.094744	7.188649	6.953189	2.094744	2.094744	2.094744	2.094744	2.100858	2.095846
1633366_at	---	---	2.094969	2.106653	7.218854	6.93044	2.094969	2.217902	2.094969	2.094969	7.35018	6.848398
1639287_at	---	CG9877	2.114002	2.369988	7.179541	7.233026	2.117581	2.094744	2.242719	2.116925	2.094925	2.094744

1635524_at	---	CG30427	2.094744	2.094744	7.570638	6.51109	3.597754	2.796578	2.094744	2.094744	8.121423	7.780051
1631781_at	---	CG18530	2.681937	2.388274	7.697927	7.239095	3.276158	3.502231	2.188531	2.19219	8.414704	7.498712
1635232_at	---	CG13983	2.094744	2.094744	6.870109	7.181308	2.094744	2.094744	2.094744	2.094744	2.094744	2.094744
1638223_at	---	CG13361	2.34304	2.54876	7.572221	7.145969	2.667729	2.630086	2.568093	2.487952	3.289822	2.683309
1629511_at	---	CG5326	2.192284	2.19111	7.366535	6.823336	3.292177	3.084647	2.19111	2.167809	6.343045	5.420399
1640027_a_at	---	CG32792	2.094744	2.094744	6.914727	7.072687	2.094744	2.094744	2.094744	2.094744	2.111242	2.130239
1625654_at	glutamate receptor	GluRIIB	2.508394	2.501152	7.561194	7.23581	2.5108	2.5108	2.495997	2.5108	5.906438	5.242333
1638973_s_at	---	CG11149	2.21465	2.296727	7.548956	6.733874	3.318668	2.21465	2.220762	2.636019	3.812575	3.366085
1629727_at	---	CG14258	2.910151	2.826674	7.589704	7.901215	5.322067	4.436326	2.55281	2.696161	6.418253	4.824421
1630241_at	lambdaTry	lambdaTry	2.190029	2.159459	7.309044	6.78508	2.171713	2.174622	2.18712	2.094744	4.402467	3.457011
1634054_at	Droninac	ninaC	2.094744	2.094744	6.851767	7.078661	3.123566	3.648609	2.094744	2.094744	2.559393	2.433849
1628289_at	empty spiracles	ems	2.317148	2.317148	6.918616	7.44093	2.784612	4.103203	2.317148	2.317148	7.145592	6.650556
1640593_at	---	CG14570	2.123071	2.123071	6.786072	7.147892	2.123071	2.123071	2.123071	2.123071	3.191772	2.840358
1640956_at	---	CG4725	2.109443	2.107399	7.301597	6.595558	2.109443	2.094744	2.107399	2.109443	2.506491	2.110464
1624596_at	---	CG31463	2.094744	2.094744	6.750451	7.107019	2.094744	2.094744	2.094744	2.094744	2.768042	2.464268
1633050_at	CG12813	Npc2d	3.344312	3.317525	7.942233	8.275425	3.280628	3.214539	3.676883	3.332686	6.521376	5.517072
1624736_a_at	---	CG5819	2.647097	2.649118	7.510465	7.323482	5.564605	4.466329	2.619548	2.649118	5.88862	5.25821
1640529_at	---	CG15408	2.48269	2.692451	7.765075	6.931738	2.431121	2.443607	2.459426	2.527258	5.759366	5.18302
1631327_at	m-spondin	mspo	2.094744	2.094744	6.798553	6.849282	2.647733	2.424448	2.094744	2.094744	8.071419	7.379304
1629042_at	---	CG15674	2.331741	2.461586	6.688984	7.552317	4.174827	4.406881	2.172813	2.366792	7.393502	6.719625
1630389_at	---	CG13178	2.153391	2.153391	7.068052	6.628333	2.230344	2.932273	2.153391	2.153391	5.003192	4.396485
1641113_at	---	CG13083	2.505124	2.505124	7.5159	6.863308	2.505124	2.505124	2.505124	2.470372	4.637036	3.545485
1631668_at	---	CG17147	2.094744	2.094744	7.184181	6.36714	2.094744	2.094744	2.094744	2.094744	6.462832	6.346427
1629551_s_at	---	CG12268	2.647094	2.619692	7.272767	7.354101	3.594054	3.607642	2.729622	2.855352	8.358619	7.533987
1626903_at	---	CG3355	2.121329	2.121206	6.559707	7.031668	2.094744	2.094744	2.094744	2.097928	2.094744	2.094744
1629637_at	---	CG13794	2.094744	2.102407	6.876476	6.650224	5.437122	4.774094	2.102407	2.118017	6.309931	5.855347
1634240_at	---	CG5107	2.094744	2.094744	6.938206	6.576388	2.094744	2.511269	2.094744	2.094744	7.829002	7.473181
1637894_at	---	CG14509	2.31749	2.376034	6.653498	7.342729	2.560585	2.368425	2.294526	2.250743	7.151943	7.227529
1624137_at	---	CG11911	2.228911	2.231562	7.06523	6.693123	2.176006	2.122897	2.228911	2.53665	3.48922	2.973857
1634029_at	Ugt86Dj	Ugt86Dj	2.094744	2.094744	6.941409	6.541629	3.139838	2.109843	2.094744	2.094744	5.501317	4.724459
1633189_at	---	CG13646	2.267895	2.353505	6.57923	7.325979	2.332862	2.366839	2.699415	2.54183	5.035487	4.097323
1623817_at	---	CG7916	2.520013	2.537209	7.178619	7.133902	2.51083	2.542659	2.542659	2.542659	2.57579	2.542659
1635194_at	---	CG13869	3.599119	3.437877	8.257211	8.032819	5.503472	4.275584	3.437877	3.442657	6.644746	5.92108
1639537_at	---	CG4587	2.094744	2.094744	6.567687	6.856263	2.094744	2.485289	2.094744	2.094744	7.389171	6.723811
1624344_at	---	CG17922	2.908763	2.925229	7.566261	7.431993	2.925229	2.979203	2.925229	2.925229	5.386518	4.552929
1630109_at	anon-SAGE:Wang-073 /// heat-shock	CG8628 /// Hsc70	2.807938	2.865041	7.292949	7.435098	2.256619	2.820518	3.231127	3.231127	3.264556	3.231127
1641631_at	/// Imaginal disc growth factor	CG4982 /// Idgf	2.094744	2.094744	6.125333	7.069147	2.094744	2.094744	2.094744	2.094744	3.112868	2.221157
1627797_at	---	CG10019	3.543105	3.587047	8.338495	7.791109	3.546501	3.777244	3.508902	3.695056	5.924616	5.368824
1631977_at	prolyl-4-hydroxylase-alpha SG1	PH4alphaSG1	2.113211	2.113211	6.69637	6.49043	3.885929	3.169717	2.261896	2.213642	4.882514	2.375824
1636007_at	Ance-2	Ance-2	2.094744	2.094744	6.910442	6.238495	2.094744	2.094744	2.094744	2.094744	2.70888	2.103091
1628449_at	Ugt86Dc	Ugt86Dc	2.10994	2.10994	6.415789	6.712005	2.10994	2.10994	2.094744	2.109082	4.919459	3.612579
1636603_a_at	---	CG9297	2.136235	2.170999	6.620362	6.587701	4.727874	4.983784	2.136235	2.105812	5.241434	4.787423
1624703_at	proboscipedia	pb	3.062889	3.077355	7.172539	7.867082	2.979764	3.130038	4.180594	3.495797	6.934788	6.213929

1632242_a_at	Syntrophin-like 1	Syn1	2.229288	2.31562	6.77056	6.653673	2.858148	2.663772	2.206874	2.838281	7.132214	6.553049
1623093_at	---	CG13188	2.094744	2.094744	6.381413	6.687228	2.094744	2.094744	2.094744	2.094744	3.026839	2.678593
1630740_at	---	CG4363	2.094744	2.094744	6.510596	6.539128	6.757826	5.674425	2.094744	2.094744	7.033889	6.055145
1626324_at	Cyp309a1	Cyp309a1	2.174006	2.174006	6.835375	6.366782	2.174006	2.174006	2.271799	2.174006	2.175449	2.174006
1625099_at	---	CG17999	2.170618	2.170618	6.789939	6.398063	2.170618	2.094744	2.170618	2.170618	4.134786	3.341963
1636493_at	delilah	dei	3.267804	3.180143	7.775918	7.51052	3.899603	4.418089	3.05893	3.175659	6.900394	6.357912
1633720_s_at	---	CG8795	3.052724	3.086942	7.843669	7.125547	4.039444	3.622372	3.287783	3.227113	3.816895	3.501033
1625462_s_at	---	CG31221	3.089882	3.393331	7.734644	7.560208	3.585845	3.667001	3.701953	3.598887	4.777007	4.50239
1629747_at	CG8511	Cpr49Ag	2.102381	2.103556	6.634045	6.363623	2.114717	2.102381	2.102381	2.102381	3.780851	2.735318
1635898_at	---	CG14856	2.268082	2.285361	6.570801	6.764607	2.285361	2.285361	2.285361	2.31665	4.454713	3.805968
1639362_s_at	--- /// ---	CG10476 /// CG	2.11955	2.105831	6.274891	6.725661	2.488338	2.105831	2.105831	2.105831	5.497105	4.827274
1630237_a_at	Distal-less	Dll	2.73692	2.694767	7.23155	6.948359	3.3892	3.250327	2.703393	2.707478	5.357264	5.012067
1623711_at	pickpocket 4	Nach	2.094744	2.094744	6.73606	6.188856	2.094744	2.094744	2.144096	2.094744	4.368098	3.052628
1632540_at	trypsin iota	iotaTry	2.428469	2.453701	7.105529	6.511793	2.419333	2.208893	2.439114	2.453701	5.32443	4.469778
1641712_at	---	CG8784	2.094744	2.094744	6.136136	6.710083	2.094744	2.094744	2.094744	2.094744	4.277751	3.7741
1636604_at	---	CG12490	2.094744	2.094744	6.172591	6.621484	2.139655	2.094744	2.095533	2.094744	6.257172	5.37704
1641225_at	---	CG7432	3.004657	2.931936	7.027035	7.496493	3.913422	2.777507	2.400712	2.586579	8.068588	7.516972
1627951_at	---	CG33289	2.208971	2.159489	6.217739	6.709539	6.452858	6.089422	2.208971	2.109591	5.084671	4.195352
1631563_at	Gustatory receptor 21a	Gr21a	2.094744	2.094744	6.812937	5.894423	2.094744	2.094744	2.094744	2.094744	2.542333	2.178948
1636927_at	---	CG30379	2.094744	2.094744	6.158622	6.527679	2.094744	2.094744	2.094744	2.094744	5.372699	4.679919
1623759_at	---	CG13428	3.130558	3.178276	7.452874	7.326929	3.114179	3.114179	3.146711	3.130558	4.05141	3.390757
1627350_at	---	CG12420	2.256669	2.256669	6.478734	6.487589	3.020816	2.658142	2.256669	2.256669	3.531796	2.941189
1633994_at	CG17793	CG34402	2.102667	2.106552	6.159297	6.498607	2.16596	2.220039	2.104762	2.102667	7.148228	6.517266
1633636_at	CG10633	Ir64a	2.401073	2.330937	6.857409	6.315219	3.632039	4.202791	2.401073	2.401073	7.466444	7.042673
1636420_at	---	CG16826	2.094744	2.094744	5.973992	6.529897	2.094744	2.094744	2.094744	2.094744	3.365515	2.423713
1633474_x_at	---	CG32603	3.060727	3.022278	7.471133	6.891295	2.686839	2.960875	2.960875	2.973717	2.783743	2.916425
1641585_at	---	CG5768	2.634224	2.270934	6.750723	6.418699	2.270934	2.270934	2.460206	2.413208	3.832429	3.943385
1629729_at	---	CG31019	2.094744	2.094744	6.565208	5.864127	2.094744	2.157766	2.094744	2.327122	5.070117	3.474553
1624479_at	CDK7-like	CG6800	2.337919	2.337919	6.195298	6.709305	5.943338	5.317655	2.337919	2.337919	4.726647	2.65243
1638896_at	CG1919	Cpr62Bc	2.094744	2.094744	5.98722	6.411134	2.094744	2.094744	2.094744	2.094744	2.094744	2.094744
1637395_at	---	CG13084	2.094744	2.127346	6.140786	6.286075	2.127346	2.127346	2.115755	2.127346	6.549581	5.685446
1627818_s_at	Glutamic acid decarboxylase 1	Gad1	2.094744	2.117097	6.496582	5.918753	5.08515	5.118706	2.117097	2.117097	4.034169	2.381952
1630381_at	CG18554	Octbeta3R	2.126331	2.126331	5.991572	6.463816	2.126331	2.126331	2.126331	2.382021	3.58897	2.751504
1623027_s_at	--- /// ---	CG6271 /// CG6	2.475224	2.273767	6.482053	6.469013	2.67713	3.517598	4.411345	5.041244	4.651291	3.780996
1629863_at	Cad89D	Cad89D	2.272653	2.318864	6.381553	6.399005	2.451664	2.315266	2.428906	2.423688	5.117338	3.883858
1631774_at	CG7076	Cpr66Cb	2.680035	2.933711	6.722685	7.065128	2.342207	2.359734	5.557127	4.991262	2.996973	2.788275
1625894_at	---	CG11370	3.129227	3.147952	7.149089	7.282558	6.914724	6.040028	3.52905	4.414015	6.352482	5.685905
1625238_at	---	CG12003	2.145948	2.094744	6.274103	6.120502	2.188592	2.191635	2.174399	2.152148	2.174399	2.193734
1629447_at	---	CG32829	2.952826	2.371323	6.736694	6.722167	4.01075	3.705842	3.292723	3.163218	6.3863	5.443147
1622920_at	Cosens-Manning mutant	trp	2.21272	2.330391	6.320129	6.344008	2.161116	2.195407	2.433079	2.407619	3.87787	2.647561
1636572_at	Dual oxidase	Duox	2.155992	2.133919	6.227853	6.141985	2.245584	3.154696	2.134987	2.146079	3.94441	3.111475
1625039_at	CG42291	Ir60d	2.094744	2.094744	6.43878	5.82376	2.094744	2.094744	2.094744	2.094744	3.557507	3.037176
1637076_at	---	CG8861	2.246536	2.181811	6.457766	6.036385	9.0292	8.75248	2.237384	2.20141	2.655876	2.254037

1629066_at	Drosophila Corazonin Receptor	GRHRII	2.280681	2.648568	6.326942	6.657626	2.279877	2.317183	2.239865	2.555571	8.215025	7.564399
1627260_at	---	CG11693	2.111836	2.111836	6.184893	6.080475	2.141021	2.522552	2.111836	2.121868	2.90459	2.330613
1631233_at	CG10296	Hr83	2.094744	2.094744	6.02826	6.151798	2.094744	2.094744	2.094744	2.094744	5.249829	5.106366
1632752_at	drostatin-A4	Ast	3.19279	3.004308	6.908615	7.257185	4.629851	4.287332	3.197006	3.130784	5.11296	6.046259
1624000_at	---	CG13443	2.193328	2.193328	6.299279	6.038973	6.091963	5.187516	2.193328	2.225211	6.751224	5.485672
1638688_at	---	CG15269	2.094744	2.094744	5.971214	6.163693	2.094744	2.378204	2.094744	2.094744	2.160015	2.094744
1638490_at	---	CG15365	2.192145	2.192145	6.202805	6.120828	2.192145	2.192145	2.192145	2.192145	2.189029	2.192145
1629522_at	Osiris	Osi3	2.714912	2.714527	6.833332	6.532157	2.708711	2.715104	2.714527	2.714527	3.891504	3.357678
1629530_at	Immune induced molecule 23	IM23	2.094744	2.094744	6.32229	5.798769	2.094744	2.094744	2.094744	2.094744	2.189422	2.094744
1638525_at	Odorant receptor 67c	Or67c	2.094744	2.094744	6.087194	6.031878	2.094744	2.094744	2.094744	2.094744	2.106047	2.094744
1626891_at	---	CG15414	2.117976	2.11998	6.166436	5.981468	2.101788	2.117976	2.109197	2.109197	3.078169	2.161485
1636979_at	---	CG7912	2.094744	2.094744	6.060051	6.029883	2.32451	2.094744	2.094744	2.094744	2.891262	3.092493
1625523_at	forkhead domain 64A	fd64A	2.420703	2.852791	6.660477	6.469431	6.505582	6.232281	2.606863	2.803289	7.417178	6.28286
1638081_at	---	CG3119	2.120241	2.120241	5.815702	6.27478	2.120241	2.120241	2.120241	2.120241	2.880699	3.509831
1637434_at	---	CG14563	2.094744	2.094744	5.916275	6.083486	2.094744	2.094744	2.094744	2.094744	2.114026	2.094744
1629011_at	CG5476	TwdIN	2.094744	2.094744	5.998469	5.977884	2.094744	2.094744	2.094744	2.094744	4.377265	3.131101
1630462_at	Odorant-binding protein 50e	Obp50e	2.620896	2.342343	5.852462	6.884855	7.747109	7.256432	2.540582	2.640932	6.598165	6.015708
1641688_at	---	CG18136	3.132359	2.953017	6.776626	7.017919	2.299883	2.215966	7.296215	7.244869	2.571046	2.335104
1639776_s_at	nyobe	nyo	2.160008	2.101918	5.604209	6.352621	2.148531	2.160197	2.119078	2.102127	5.040221	4.099691
1639167_at	CG14487	Ir54a	2.12956	2.12956	6.127078	5.78588	3.922678	4.720665	2.134168	2.134168	5.396152	4.643318
1632701_at	Peptidyl-alpha-hydroxyglycine-al	Pal	2.094744	2.094744	5.779845	6.056983	3.195582	2.484649	2.094744	2.094744	4.415769	3.98403
1625463_at	Histamine-gated chloride channe	ort	2.650984	3.030798	6.48027	6.84168	2.761365	2.094744	2.094744	2.178527	4.775454	4.754108
1627136_at	kinesin-73	Khc-73	2.341768	2.368696	6.476054	5.858208	7.569523	8.252703	2.19879	2.307712	2.526546	2.339807
1637354_at	---	CG8172	2.337294	2.417118	6.226544	6.108576	2.094744	2.094744	3.110697	3.801899	2.094744	2.094744
1630012_at	CG31225	Ir94f	2.094744	2.094744	6.174303	5.588632	2.094744	2.094744	2.094744	2.094744	2.097868	2.094744
1633009_a_at	---	---	2.111469	2.094744	6.282624	5.48095	2.111469	2.111469	2.094744	2.111469	5.750317	5.37357
1633562_at	---	CG14569	2.19634	2.19634	5.723435	6.220913	2.19634	2.19634	2.19634	2.19634	3.298264	2.577292
1623981_at	---	CG7017	2.094744	2.094744	6.202472	5.510734	2.094744	2.094744	2.094744	2.094744	4.341343	4.481219
1639956_at	---	CG17760	2.632593	2.912084	6.683974	6.382047	7.34047	7.003889	2.588369	2.666624	6.86043	6.629703
1626574_at	---	CG9935	3.147369	3.540408	7.142587	7.065115	7.5242	6.553758	3.064615	3.546671	7.901719	7.568943
1628585_at	Guanylyl cyclase at 89Da	Gyc-89Da	2.108649	2.095859	5.610324	6.034528	3.835524	3.673008	2.107862	2.103513	6.223866	5.306193
1630419_a_at	---	CG7300	2.698208	2.162794	6.338312	5.960431	2.16045	2.094744	2.613979	2.448303	2.161619	2.143293
1623390_at	---	CG11768	2.094744	2.094744	6.036641	5.57435	2.094744	2.094744	2.094744	2.094744	3.665957	2.699151
1627734_at	myogenic determination	nau	2.094744	2.094744	5.722591	5.85963	4.146702	4.481901	2.094744	2.094744	5.233953	4.240901
1641637_at	CG17382	Ir94h	2.094744	2.094744	5.586748	5.955675	2.094744	2.094744	2.094744	2.094744	2.820918	2.420879
1637777_at	---	CG13982	2.094744	2.094744	5.726295	5.795913	2.094744	2.555421	2.094744	2.125037	7.990701	7.226797
1633281_at	CG15240	CG42541	2.73863	2.482061	6.52216	5.978282	3.102456	2.853378	2.385885	2.385885	5.402102	4.56225
1638251_at	---	CG5549	2.146178	2.146178	5.77081	5.732732	2.15038	2.140593	2.146178	2.146178	2.248526	2.146178
1628078_at	---	CG2256	2.094744	2.094744	5.433975	5.922775	2.094744	2.094744	2.094744	2.094744	2.094744	2.094744
1635384_at	Zinc/iron regulated transporter-r	ZIP1	2.153317	2.153317	6.056053	5.407863	4.443549	2.153317	2.153317	2.153317	3.879297	4.110659
1641734_at	rhodopsin	ninaE	2.238263	2.238263	5.572623	6.053236	2.238263	2.238263	2.238263	2.238263	2.503391	2.325463
1634061_a_at	retinal degeneration C	rdgC	2.135982	2.126458	5.739285	5.640515	2.428099	2.470906	2.136215	2.136379	3.66306	4.785685
1633356_s_at	Dalpha2	nAcRalpha-96A	2.258021	2.258021	6.134148	5.494337	2.258021	2.502022	2.258021	2.258021	2.258443	2.258021

1632356_at	Gustatory receptor 65C.1	Gr65a	2.094744	2.094744	5.541822	5.756744	2.094744	2.094744	2.094744	2.094744	5.414872	4.496352
1627272_at	---	CG30380	2.709407	2.943209	6.390221	6.368964	2.937752	2.943209	2.865277	3.171096	5.133249	5.553022
1633952_at	---	CG7080	2.094744	2.094744	5.808846	5.484493	2.094744	2.094744	2.094744	2.094744	4.942356	3.63698
1624129_s_at	---	CG7708	2.094744	2.094744	5.760257	5.524606	3.051529	2.277401	2.094744	2.094744	6.070863	5.359903
1638253_at	---	CG5361	2.094744	2.094744	5.664346	5.616326	2.094744	2.094744	2.094744	2.094744	3.622044	3.02936
1635636_at	Takeout	to	2.097662	2.095474	5.912368	5.366139	4.029371	2.366579	2.097662	2.097662	5.279262	5.595006
1623006_at	cocaine-sensitive serotonin trans	SerT	2.94024	2.896	6.333346	6.550715	4.450053	4.731791	2.932926	2.90607	7.304291	6.504465
1629380_at	Chorion protein 16	Cp16	2.094744	2.094744	5.498225	5.701572	2.094744	2.094744	2.094744	2.094744	3.430364	2.612475
1635689_at	Gene II	Lcp2	2.094744	2.094744	5.555897	5.625014	2.094744	2.094744	2.094744	2.094744	2.717396	3.520735
1627368_at	---	CG15497	2.921938	2.766197	6.406631	6.261787	5.807151	6.106965	2.945996	2.788981	6.293931	5.107898
1639926_at	---	CG9395	2.094744	2.094744	5.401908	5.756302	2.094744	2.094744	2.094744	2.094744	7.039687	5.122258
1638612_at	CG11142	obst-E	2.451947	2.451947	6.177004	5.679598	5.144427	4.827032	2.451947	2.451947	4.295786	3.88736
1623617_at	---	---	2.094744	2.094744	5.669869	5.471929	2.094744	2.094744	2.094744	2.094744	2.094754	2.094744
1636818_at	---	CG13133	2.159009	2.159009	5.730378	5.535551	2.126877	2.126877	2.159009	2.159009	6.451354	5.596085
1633816_at	---	CG17181	3.013511	3.056265	6.51312	6.466884	3.006633	3.006633	3.006633	3.006633	4.701385	3.456071
1637910_at	CG30125	Ir56a	2.094744	2.094744	5.402644	5.694493	2.395196	2.18285	2.094744	2.094744	2.117827	2.138835
1641071_at	Incilarin-like	CG8343	2.094744	2.094744	5.733276	5.355908	2.094744	2.094744	2.094744	2.094744	5.529757	4.228508
1625701_at	---	---	2.103408	2.106259	5.373119	5.728845	2.103408	2.103221	2.204106	2.76946	5.457938	3.830698
1623721_at	---	---	2.116959	2.116959	5.818066	5.295685	2.116959	2.116959	2.116959	2.116959	2.116959	2.131616
1636328_at	---	CG12507	2.094744	2.094744	5.301698	5.747989	2.358001	2.124259	2.094744	2.094744	2.117537	2.094744
1626472_at	---	CG30340	2.094744	2.094744	5.691114	5.319723	2.094744	2.094744	2.094744	2.094744	5.547019	4.330025
1627607_at	---	CG4229	3.60128	3.666787	6.876624	7.177981	3.436231	3.437384	3.60128	3.60128	4.794323	3.955108
1630544_at	---	---	2.199576	2.207292	5.32302	5.861307	2.69618	2.238749	2.197268	2.400206	3.173988	3.306901
1626437_at	---	CG42296	2.338356	2.338356	5.602942	5.836652	2.377554	2.338356	2.338356	2.338356	7.300252	6.528641
1639152_at	Ptp52F	Ptp52F	2.97422	3.202895	6.617667	6.316227	3.797612	4.076188	3.328001	2.656899	5.232053	4.989625
1628357_at	---	CG6142	2.54827	2.470381	5.929763	5.842219	2.515636	2.557028	2.54827	2.54827	2.923561	2.549579
1628265_a_at	CG13719	CG42540	2.094744	2.094744	5.435101	5.477301	2.294151	2.303137	6.684436	6.764043	6.134873	5.07493
1628812_at	---	---	2.152459	2.152459	5.703774	5.306491	2.152459	2.152459	2.152459	2.149585	2.152459	2.147277
1625007_a_at	stoned /// stoned	stnA /// stnB	2.094744	2.094744	5.483409	5.38455	2.094744	2.094744	2.094744	2.094744	2.387565	3.208635
1637539_a_at	hibris	hbs	2.375719	2.375403	5.609694	5.744581	2.375561	2.375245	2.375719	2.324482	3.791802	3.188477
1638174_at	---	CG1246	3.68005	3.705246	7.166453	6.773355	3.750216	3.936487	3.750216	3.773335	5.508057	5.08377
1635894_at	---	CG30148	2.387553	2.52144	5.627645	5.815633	2.122994	2.501614	2.354757	2.354757	6.440103	5.995698
1625498_at	---	CG13590	2.094744	2.094744	5.592051	5.129746	2.094744	2.094744	2.094744	2.094744	2.224167	2.163095
1635136_at	---	CG30471	2.094744	2.094744	5.415783	5.258615	2.094744	2.094744	2.094744	2.094744	3.133595	3.372079
1627264_at	---	---	2.100135	2.100135	5.278842	5.403533	2.100135	2.100135	2.100135	2.100135	2.111078	2.100135
1629817_at	---	CG3339	2.350787	2.447525	5.477579	5.802536	2.98385	2.570631	2.405976	2.359262	4.702805	3.943547
1629498_at	Guanylate cyclase receptor-type	Gyc32E	2.34486	2.337074	5.760014	5.304388	3.52602	3.582824	2.355552	2.309182	6.436466	5.160944
1624092_at	Jonah 99C Alpha	Jon99Ci	2.492511	2.342377	5.441419	5.725987	4.15457	3.448476	2.492511	2.31365	2.573591	2.492511
1623290_at	Osiris	Osi4	2.121053	2.099553	5.297595	5.243509	2.379128	3.206454	2.128204	2.146646	5.883389	4.718593
1633826_at	Iris	Iris	2.094744	2.094744	5.126893	5.335277	2.094744	2.094744	2.094744	2.094744	3.085673	2.095853
1640771_a_at	---	CG13627	2.887452	2.889872	5.871529	6.170768	5.04114	4.39232	2.781582	2.885788	4.105677	2.889872
1627096_s_at	BTB-protein-III	CG16778	2.117745	2.150019	5.560476	4.909277	2.285285	3.47779	2.117745	2.125874	2.171317	2.160602
1637140_at	---	CG32830	3.061405	3.048486	6.295359	6.000857	2.170082	2.148213	2.199203	3.107226	2.490068	2.199203

1627130_at	---	CG7568	2.094744	2.094744	5.294865	5.046419	2.161869	2.094744	2.094744	2.094744	2.094744	6.193121	5.118976
1634591_at	---	CG11878	2.107762	2.107762	4.929999	5.404977	2.101471	2.107762	2.107762	2.107762	2.107762	2.096716	2.096492
1625821_at	---	---	2.134452	2.094744	5.160173	5.167561	2.095057	2.095057	2.095057	2.095057	2.095057	2.095057	2.095057
1637907_at	---	CG10476	2.094744	2.094744	4.983121	5.287509	2.094744	2.094744	2.094744	2.094744	2.094744	2.903766	2.123192
1627964_s_at	---	CG7888	2.988921	2.966955	5.941271	6.011918	3.175632	3.707377	2.972304	3.143586	8.195598	7.192424	
1628177_at	juvenile hormone acid methyltra	jhamt	2.094744	2.094744	5.086829	5.063953	4.310276	4.36935	2.140185	2.140185	5.202738	5.211812	
1637669_at	---	CG7442	2.101531	2.105487	4.858764	5.271758	2.109205	2.170947	2.107346	2.109205	7.528186	6.691452	
1634540_at	Cyp316a1	Cyp316a1	2.094744	2.103687	5.283893	4.809889	2.395227	2.136083	2.094744	2.094744	3.227552	3.637723	
1627637_at	---	---	2.311277	2.571009	5.180994	5.53489	2.206243	2.213505	2.222878	2.204851	6.237493	5.32167	
1630860_at	scratch	scrt	2.094744	2.094744	4.864023	5.086625	2.767775	3.640659	2.094744	2.094744	6.198502	7.253836	
1635742_s_at	Cad74A	Cad74A	3.004666	2.966304	6.154226	5.540384	3.42602	3.314082	2.986279	3.065397	2.978961	2.929117	
1633313_at	---	---	2.136765	2.094744	4.931822	5.003418	2.340361	2.194086	2.094744	2.699328	2.326381	2.487664	
1627810_at	---	---	2.094744	2.094744	4.811934	5.066025	2.110201	2.104167	2.155801	2.094744	2.094744	2.094744	2.094744
1630655_at	---	CG33159	2.094744	2.144529	5.121537	4.801581	2.094744	2.094744	2.147708	2.122062	2.098676	2.094744	
1635026_at	biparous	tap	2.094744	2.094744	4.853516	5.013702	2.440775	3.285582	2.094744	2.094744	4.628421	4.308391	
1625307_at	sugar transporter 2	sut2	2.105075	2.099535	4.950608	4.928619	4.474074	4.77102	2.098107	2.102897	3.119581	2.636784	
1635921_at	---	CG3502	2.360972	2.408479	4.877112	5.563052	2.203825	2.134731	2.13411	2.09843	5.303956	4.582135	
1634103_at	CG15122	lr56c	2.094744	2.094744	5.18574	4.662608	2.094744	2.094744	2.094744	2.094744	4.262716	3.681623	
1633995_at	---	---	2.536669	2.543549	5.375767	5.309011	2.645423	2.547236	2.460908	2.426011	5.053278	3.72097	
1637707_at	---	CG4009	3.239218	3.347007	6.117328	6.051447	3.797018	3.568109	2.301889	2.31472	3.774469	2.678059	
1640407_at	---	CG9897	2.094744	2.094744	4.846844	4.906922	2.094744	2.094744	2.217744	2.094744	3.812307	2.192092	
1634348_s_at	---	---	2.094744	2.094744	4.857568	4.877491	2.094744	2.127975	2.094744	2.094744	4.10643	3.808804	
1628716_at	---	CG13283	2.094744	2.094744	4.613127	5.121292	2.511585	2.198679	2.094744	2.094744	5.305707	4.724432	
1626194_at	melted	melt	3.207118	3.155636	5.633375	6.252069	3.504899	4.859697	3.207118	3.207118	6.092339	5.180612	
1636836_at	---	CG8568	2.49304	2.355643	5.092702	5.240075	2.096523	2.096523	2.16556	2.096523	4.829139	5.580697	
1632419_at	CG17034	CG42321	2.094744	2.094744	4.944351	4.715696	2.094744	2.094744	2.094744	2.094744	5.558215	4.673881	
1624772_at	---	CG14186	2.094744	2.206254	4.620448	5.110993	2.094744	2.094744	2.094744	2.094744	2.112336	2.094744	
1626455_s_at	---	CG34005	2.110846	2.146426	4.987802	4.697185	2.784096	2.435966	2.137058	2.137058	4.876718	4.841835	
1629996_at	astrocytic leucine-rich repeat mo	CG11910	2.094783	2.094783	4.606493	4.981119	2.094783	2.094783	2.094783	2.094783	2.48254	2.131784	
1641527_at	---	CG4576	2.094744	2.094744	4.639268	4.851662	2.094744	2.094744	2.094744	2.094744	5.401404	4.500941	
1637062_at	---	CG18745	2.420284	2.424756	5.136583	4.960315	2.294349	2.423226	2.424756	2.218461	6.084799	4.821687	
1625852_at	golden goal	gogo	2.131542	2.135042	4.836841	4.563425	2.981922	3.889249	2.116664	2.128062	2.561777	2.342274	
1636659_at	CG8634	Cpr65Ec	2.180574	2.180574	4.453412	5.02862	2.180574	2.180606	2.180638	2.180574	2.240024	2.189873	
1630727_at	---	CG5070	2.094744	2.094744	4.453854	4.831147	2.115815	2.094744	2.094744	2.094744	2.406287	2.143997	
1631123_at	DCorin	Corin	2.635239	2.38215	5.179402	4.924913	2.834756	2.841694	2.378861	2.657022	4.284906	3.614569	
1638462_at	---	CG18088	2.11789	2.100279	4.498601	4.799071	2.2896	2.094744	2.094744	2.094744	5.560201	5.22783	
1625858_at	---	CG31785	3.156233	3.374247	5.928444	5.679129	2.978099	2.69107	3.319635	2.949241	6.350979	4.925009	
1640627_at	dachsous	ds	2.230708	2.23332	4.971756	4.560265	2.303418	2.203511	2.247767	2.367074	5.009661	4.353792	
1639627_at	---	CG33703	2.094744	2.094744	4.422495	4.800605	2.47442	2.094744	2.094744	2.094744	6.391177	5.290029	
1637590_at	CG14343	CG42329	2.094744	2.094744	4.438811	4.724997	2.094744	2.094744	2.094744	2.094744	2.682901	2.102868	
1636897_at	---	CG33003	2.862674	2.862674	5.219381	5.474853	2.862674	2.862674	2.587439	2.717365	4.055493	3.796815	
1626950_at	---	---	2.094744	2.094744	4.719866	4.398573	2.094744	2.094744	2.094744	2.094744	2.094744	2.095504	
1625743_at	beta-carotene dioxygenase	ninaB	3.110133	3.365039	5.735491	5.663077	9.158396	8.813005	3.431451	3.351448	9.126988	9.208682	

1630489_at	---	CG4116	2.094744	2.094744	4.81886	4.270825	2.094744	2.094744	2.094744	2.094744	2.235787	2.142734
1637986_at	---	CG15253	2.113364	2.113364	4.374207	4.742154	2.467553	2.687241	2.113364	2.113364	5.379318	3.485227
1640837_a_at	Ecdysone-inducible gene L1	ImpL1	2.22222	2.22222	4.768448	4.517609	2.22222	2.22222	2.22222	2.22222	2.149401	2.22222
1623829_at	---	CG31414	3.027643	3.045174	5.495247	5.408934	2.357408	3.057312	2.981277	3.368162	3.037079	3.076486
1630621_at	---	CG15212	2.291699	2.255357	4.577051	4.797687	2.253964	2.253964	2.243639	2.250522	3.168396	3.199441
1641587_at	--- /// ---	CG14777 /// CG	2.112468	2.112468	4.674456	4.278422	2.112468	2.112468	2.112468	2.112468	2.127707	2.112468
1625159_at	---	CG18561	2.094744	2.094744	4.392385	4.462602	2.094744	2.094744	2.094744	2.094744	2.094744	2.094744
1630625_s_at	---	CG33772	2.094744	2.094744	4.351023	4.47262	2.094744	2.094744	2.094744	2.094744	2.165535	2.100143
1636627_at	CG18554	Octbeta3R	2.112565	2.112565	4.312993	4.498328	2.094744	2.112565	2.112565	2.112565	2.11826	2.15348
1626103_at	Shell-38	Cp38	2.094744	2.094744	4.707954	4.030537	2.094744	2.094744	2.094744	2.094744	2.094744	2.0954
1633365_at	CG7385	lr76b	2.849794	2.921734	5.175834	5.128856	2.401342	2.46885	2.954071	2.954071	3.041266	2.95464
1628121_at	Osiris	Osi14	2.561491	2.431899	4.893474	4.625403	2.628834	2.278297	2.602109	2.591195	3.737961	3.887261
1640345_at	Osiris	Osi21	2.127982	2.127982	4.315445	4.44513	2.127982	2.127982	2.127982	2.127982	4.325438	3.209712
1634436_at	drostatin-C	Ast-C	2.094744	2.165319	4.308743	4.454569	2.165319	2.391331	2.165319	2.094744	3.022431	2.224955
1627678_at	---	CG18302	2.094744	2.100879	4.371757	4.31937	2.197057	2.370745	2.094744	2.094744	2.103506	2.102414
1638594_at	Gustatory receptor 28b	Gr28b	2.229949	2.229949	4.585205	4.362246	4.654915	3.425276	2.213051	2.213051	5.462538	4.744723
1629263_at	---	CG13699	2.273801	2.206983	4.52346	4.401437	6.985923	6.370653	2.148338	2.189949	7.304656	6.877023
1631444_a_at	Odorant receptor 35a	Or35a	2.094744	2.094744	4.286495	4.336159	2.094744	2.094744	2.094744	2.094744	2.457264	2.101717
1637772_at	---	CG4726	2.614901	2.742458	5.016077	4.723641	2.736591	2.702579	2.554959	2.742458	3.243459	3.181459
1638038_at	---	CG4335	2.094744	2.094744	4.193798	4.356885	2.094744	2.094744	2.094744	2.094744	5.04193	4.440211
1637486_at	---	CG31698	2.094744	2.094744	4.095733	4.443756	2.094744	2.094744	2.094744	2.094744	6.349092	5.621589
1637338_at	---	CG12517	2.377455	2.286762	4.602866	4.396486	2.20024	2.16238	2.376784	2.219033	2.206029	2.218773
1626183_at	---	CG2083	2.485947	2.663147	4.86754	4.599344	2.679941	2.475681	3.433053	3.052517	2.842046	3.316903
1631332_at	---	---	2.094744	2.094744	4.10599	4.400082	2.094744	2.094744	2.094744	2.094744	2.178183	2.107139
1638633_at	pickpocket 7	ppk7	2.094744	2.094744	4.578457	3.921214	2.094744	2.094744	2.094744	2.094744	3.413021	2.386502
1627128_at	pickpocket 6	ppk6	3.21671	2.821012	5.253716	5.079633	2.690854	2.401273	2.873683	2.762834	4.228866	4.111076
1632257_at	---	CG31183	3.110935	3.110935	5.321787	5.142291	3.162078	3.416602	3.110935	3.110935	3.6535	3.477651
1623932_at	Equilibrative nucleoside transporter	Ent3	2.379322	2.577488	4.839736	4.286146	4.764306	4.552337	2.551712	2.627078	4.746967	5.728455
1631846_at	---	CG14857	2.265439	2.265439	4.200756	4.294085	2.25969	2.626039	2.265439	2.265439	3.681124	3.353294



Additional Data table S5 (separate excel file) List of 680 Kmg bound genes and genomic locations of associated peaks  
 (Questions: Jongmin Kim / devtxn@gmail.com)

- 1 Chr\_peak
- 2 Start\_peak
- 3 end\_peak
- 4 Name\_peak
- 5 q\_value\_peak
- 6 Summit\_position\_of\_peak
- 7 Transcript\_FBtr
- 8 Transcript\_Name
- 9 distance\_btw\_peaksummit\_TSS
- 10 Sprime\_location
- 11 Strand\_transcript

1	2	3	4	5	6	7	8	9	10	11
Chr	Start_peak	end_peak	Name_peak	q_value_peak	Summit_pos	Transcript_FBtr	Transcript_Name	distance	Sprime_loc	Strand
3L	3901245	3903379	peak_3228	213.31929	3901607	FBtr0073179	Ubi-p63E-RC	443	3902050	-
2L	6801373	6802998	peak_659	121.13351	6802501	FBtr0309815	CG17377-RE	288	6802789	-
2R	17245863	17247555	peak_2424	111.76088	17247060	FBtr0300762	CG12699-RB	323	17247383	-
2R	23283085	23284316	peak_2811	101.58189	23283575	FBtr0343198	CG3124-RB	538	23284113	-
3L	8617001	8622483	peak_3467	130.69949	8620312	FBtr0076639	S-Lap2-RA	424	8619888	+
2R	8366225	8370086	peak_1800	85.83238	8369687	FBtr0088766	CG2127-RB	351	8370038	-
3R	7362612	7367501	peak_4625	96.58733	7365404	FBtr0081586	Mst84Db-RA	223	7365627	-
3R	19180257	19180912	peak_5308	74.50422	19180613	FBtr0083735	CG31475-RA	46	19180659	+
2R	13777716	13780388	peak_2186	91.65776	13779226	FBtr0087649	S-Lap7-RA	1019	13780245	-
2L	3518080	3519908	peak_452	82.9589	3519327	FBtr0077561	CG3213-RA	324	3519651	-
3R	9407937	9410419	peak_4749	81.05883	9409044	FBtr0082046	betaTub85D-RA	875	9410282	-
3R	24363062	24366032	peak_5633	64.50218	24364437	FBtr0084626	CG17784-RA	543	24364980	-
3R	14096381	14098215	peak_5049	69.91098	14097824	FBtr0082917	CG9920-RA	256	14098080	-
3L	4045826	4047793	peak_3240	51.5326	4046706	FBtr0073203	CG1136-RA	110	4046596	+
3R	20013754	20018077	peak_5345	181.79465	20014429	FBtr0273258	CG4836-RD	303	20014126	+
2R	19545175	19547313	peak_2609	60.08994	19546697	FBtr0304653	sm-RJ	374	19547071	-
2R	16534784	16537257	peak_2373	182.94173	16535375	FBtr0087092	loopin-1-RA	432	16534943	+
3R	23698470	23700497	peak_5544	51.5326	23700104	FBtr0334769	CG31468-RB	250	23700354	-
2L	10056813	10060621	peak_844	137.16919	10057317	FBtr0079937	Pen-RA	417	10056900	+
2L	5923073	5923863	peak_580	52.37142	5923389	FBtr0079151	CG9016-RA	264	5923653	-
3L	9413784	9417582	peak_3526	39.42852	9417184	FBtr0076485	CG3982-RA	204	9417388	-
2L	13210557	13212085	peak_1061	38.65546	13211712	FBtr0080487	CG15482-RA	102	13211814	-
3L	1756038	1757109	peak_3083	40.20609	1756235	FBtr0334074	CG8001-RD	71	1756306	+
3L	14217956	14220378	peak_3792	32.64424	14219731	FBtr0100043	nuf-RE	11	14219742	+

Y	3264979	3265809	peak_6270	33.37759	3265355	FBtr0114088	CG41423-RA	79	3265434	+
2L	19181209	19183774	peak_1345	45.76664	19182389	FBtr0302890	CG42688-RA	259	19182648	-
2L	16133434	16135340	peak_1173	33.37759	16134908	FBtr0112359	CG34168-RA	364	16135272	-
2R	19220176	19221751	peak_2559	12.67755	19220532	FBtr0086505	CG7137-RA	6812	19227344	+
3L	9376253	9377641	peak_3511	38.65546	9377086	FBtr0076496	Hsp26-RA	289	9377375	-
2L	22104877	22105605	peak_1483	30.47042	22105227	FBtr0085944	CG15219-RA	285	22105512	-
3R	23693749	23696548	peak_5543	38.65546	23695976	FBtr0084475	CG10252-RA	269	23696245	-
3R	5274753	5277973	peak_4484	35.60972	5277508	FBtr0078819	CG31538-RA	327	5277835	-
2R	25129269	25130667	peak_2947	46.57809	25129698	FBtr0343513	CG30430-RB	239	25129459	+
3L	3192849	3197799	peak_3177	34.86029	3193947	FBtr0073040	Hsp83-RA	731	3193216	+
3R	28291214	28293156	peak_5803	164.75983	28291643	FBtr0085277	Mst98Ca-RA	305	28291338	+
2R	12303857	12306262	peak_2063	34.1165	12305807	FBtr0089668	SIP2-RG	462	12306269	-
2R	19725139	19726363	peak_2626	24.90064	19725878	FBtr0086331	tRNA:CR30218-RA	27	19725905	+
3R	7086207	7089740	peak_4608	50.69706	7087338	FBtr0081639	alphaTub84B-RA	739	7086599	+
3R	13826034	13827843	peak_5027	30.47042	13827401	FBtr0082884	Mst87F-RA	285	13827686	-
3R	23889501	23893837	peak_5569	40.20609	23893265	FBtr0084525	tbrd-1-RA	118	23893383	-
3R	22491741	22493600	peak_5493	44.15776	22491970	FBtr0084258	CG7045-RA	141	22491829	+
2R	14663511	14666944	peak_2262	49.03657	14665167	FBtr0087481	CG12861-RA	189	14665356	-
3R	9677543	9678759	peak_4785	29.04851	9677906	FBtr0308353	CG16817-RB	21	9677927	+
3R	18850265	18851926	peak_5289	42.56455	18851602	FBtr0083675	CG31226-RA	196	18851798	-
2R	15229570	15230219	peak_2297	13.22238	15230094	FBtr0340008	CR44370-RA	3156	15226938	+
2L	18256312	18258059	peak_1289	29.75709	18257768	FBtr0081056	CG31788-RA	134	18257902	-
2L	16004331	16005432	peak_1170	48.2129	16004822	FBtr0346121	CG13245-RC	144	16004966	+
2R	22593946	22595327	peak_2758	24.90064	22594877	FBtr0071853	CG3927-RA	200	22594677	+
3R	9763340	9764764	peak_4795	21.60102	9763646	FBtr0082133	CG8478-RB	4	9763650	+
2L	2492604	2493981	peak_369	17.24148	2493034	FBtr0077779	oaf-RC	79	2492955	+
2R	8078909	8080237	peak_1771	28.34433	8079835	FBtr0310370	Vps28-RB	206	8080041	-
2R	19726483	19727525	peak_2627	16.05663	19726795	FBtr0086448	tRNA:E4:56Fc-RA	582	19726213	-
3L	4100989	4102597	peak_3251	29.75709	4102263	FBtr0073273	CG14995-RD	121	4102384	-
3R	10349933	10350591	peak_4860	23.56257	10350116	FBtr0082237	jumu-RA	66	10350182	+
3L	11122949	11123663	peak_3628	17.24148	11123303	FBtr0301438	CG42575-RA	45	11123348	+
3R	4402841	4403986	peak_4418	17.24148	4403057	FBtr0078921	lost-RA	19	4403076	+
2R	23553391	23554830	peak_2825	19.69469	23554323	FBtr0072112	pita-RA	389	23554712	-
3R	24106927	24107591	peak_5597	14.90051	24107441	FBtr0084542	CG10694-RA	50	24107391	+
2R	19259753	19261333	peak_2569	35.60972	19260335	FBtr0086511	CG7229-RA	426	19259909	+
3L	19641750	19642965	peak_4104	23.56257	19642469	FBtr0331862	CG8786-RG	347	19642816	-
2L	19370331	19370722	peak_1348	17.24148	19370528	FBtr0081198	CG17349-RA	83	19370445	+
3R	30036296	30038953	peak_5880	49.03657	30036695	FBtr0085600	CG7928-RA	175	30036870	-
2R	19060946	19061909	peak_2552	20.32366	19061277	FBtr0299568	CG15109-RE	1856	19059421	+
2R	21803358	21805117	peak_2719	19.69469	21804485	FBtr0344884	CR9284-RE	1083	21803402	+
3R	9774907	9775640	peak_4801	14.90051	9775161	FBtr0082135	topi-RA	40	9775121	+

3L	3224596	3226327	peak_3182	17.24148	3224926	FBtr0073045	CG11505-RA	88	3224838	+
2L	2415800	2416911	peak_367	20.95932	2416497	FBtr0077788	CG31948-RA	159	2416656	-
2L	728310	728926	peak_275	19.69469	728613	FBtr0078000	Hsp60B-RA	251	728362	+
2L	2769968	2770724	peak_390	14.90051	2770253	FBtr0077719	CG2862-RB	59	2770194	+
3L	21536768	21537369	peak_4234	17.24148	21537065	FBtr0333453	Rpn10-RB	1	21537066	+
3L	8943215	8945111	peak_3484	21.60102	8944289	FBtr0331511	orb2-RA	604	8944893	-
3R	18287944	18289028	peak_5267	26.26251	18288635	FBtr0083597	CG7131-RA	142	18288777	-
3L	300343	300760	peak_2994	13.77455	300551	FBtr0333955	RhoGEF3-RB	19	300570	+
3R	5240177	5240788	peak_4471	31.18979	5240517	FBtr0078824	CG33293-RA	218	5240735	-
3L	9684815	9685426	peak_3554	16.05663	9685143	FBtr0076394	CG16719-RA	28	9685171	+
2R	13430741	13432829	peak_2154	16.05663	13431762	FBtr0087660	tRNA:I:49Fd-RA	15	13431777	+
2L	3042741	3043451	peak_416	16.05663	3042959	FBtr0077656	CG17261-RA	40	3042919	+
2L	9887721	9888326	peak_837	13.77455	9887970	FBtr0342837	FKBP59-RB	35	9888005	+
2L	3163523	3163858	peak_430	14.90051	3163659	FBtr0332371	Hydr2-RC	14	3163645	+
2R	22060698	22061891	peak_2731	24.90064	22061135	FBtr0339099	Snp-RD	185	22060950	+
3L	21824569	21825912	peak_4259	16.64565	21824751	FBtr0303245	CG7414-RC	11	21824740	+
3L	1555542	1556211	peak_3064	10.08448	1555955	FBtr0072743	Pex10-RA	2273	1558228	+
2R	7386857	7387972	peak_1694	20.32366	7387346	FBtr0336909	CG11107-RB	22	7387324	+
2R	13222136	13222705	peak_2140	19.07141	13222419	FBtr0087740	Dp-RA	14	13222433	+
2R	19341565	19342873	peak_2574	14.90051	19341761	FBtr0304055	CG9975-RB	48	19341809	+
3R	11244090	11244555	peak_4892	15.4749	11244249	FBtr0082358	CG5214-RA	53	11244302	+
2L	18453976	18455133	peak_1300	18.45464	18454631	FBtr0081063	Ntf-2r-RA	18	18454649	+
3R	10224610	10225074	peak_4843	19.07141	10224873	FBtr0110787	CG34107-RA	36	10224909	+
3R	10109130	10110395	peak_4836	21.60102	10110050	FBtr0347104	Fmr1-RJ	65	10109985	-
3L	4283671	4284887	peak_3264	19.07141	4283999	FBtr0073233	CG1316-RA	148	4283851	+
3L	18041199	18043188	peak_4027	17.84423	18042729	FBtr0300044	CG42393-RA	4	18042733	+
3R	19921195	19921575	peak_5343	13.22238	19921382	FBtr0347246	CR46040-RA	69	19921313	+
3L	15471624	15472212	peak_3839	12.14226	15471806	FBtr0332815	CG7804-RB	2304	15474110	-
3R	17682133	17683486	peak_5238	15.4749	17682651	FBtr0083479	CG7655-RA	18	17682669	+
3R	10000540	10002109	peak_4819	17.24148	10001236	FBtr0082215	CG5359-RA	40	10001276	-
2R	10354450	10356181	peak_1946	46.57809	10355473	FBtr0305905	CG12902-RC	86	10355387	-
2L	294926	295512	peak_252	15.4749	295102	FBtr0078131	Hop-RA	20	295122	+
2R	17539012	17539467	peak_2441	13.22238	17539250	FBtr0307337	CG43370-RD	72	17539322	+
3R	5467594	5468216	peak_4500	12.14226	5467787	FBtr0078680	CG12162-RA	9	5467778	+
2R	16598528	16600136	peak_2379	17.84423	16598934	FBtr0087107	CG5089-RA	186	16598748	+
2L	5981619	5984752	peak_587	24.22873	5982651	FBtr0079177	eIF-4a-RB	57	5982594	+
3L	6983023	6983630	peak_3355	13.22238	6983183	FBtr0309074	CG43439-RA	1403	6984586	-
2R	9692266	9693160	peak_1881	16.05663	9692794	FBtr0088499	Uba1-RA	534	9693328	-
2L	13305389	13306981	peak_1076	23.56257	13306463	FBtr0331506	CG43779-RA	292	13306755	-
2L	1026474	1027063	peak_289	24.90064	1026841	FBtr0077997	CG4375-RA	56	1026897	-
3R	9764881	9765391	peak_4796	10.08448	9765048	FBtr0301871	CG8478-RD	1294	9763754	+

2R	8262888	8264581	peak_1792	16.05663	8264225	FBtr0088800	CG30376-RA	201	8264426	-
2L	14598644	14599783	peak_1133	21.60102	14599391	FBtr0080660	tRNA:P:35Bb-RA	76	14599467	-
3R	30808369	30808897	peak_5916	11.61518	30808619	FBtr0310068	cindr-RE	2	30808617	+
3L	13111111	1315876	peak_3040	15.4749	1313733	FBtr0072670	CG9153-RB	37	1313696	+
3L	1478284	1479002	peak_3049	18.45464	1478698	FBtr0072713	stet-RA	243	1478941	-
3R	25792685	25793382	peak_5720	11.61518	25792939	FBtr0309989	CR43632-RA	364	25793303	-
2R	20319044	20319569	peak_2637	15.4749	20319241	FBtr0301207	CG8920-RD	61	20319180	+
2R	20669505	20671132	peak_2657	19.07141	20670831	FBtr0302285	exu-RD	70	20670761	-
3R	9509181	9510632	peak_4759	14.90051	9509891	FBtr0082123	rump-RA	433	9510324	-
3R	26452530	26452926	peak_5746	19.69469	26452702	FBtr0330152	CG5447-RB	168	26452534	+
2R	24472557	24473672	peak_2897	10.08448	24472852	FBtr0072294	CG3492-RA	140	24472712	+
3R	14641917	14642742	peak_5079	15.4749	14642332	FBtr0082976	CG7886-RA	231	14642563	-
3L	9729857	9731210	peak_3569	17.84423	9730381	FBtr0076405	ATPsyn-b-RA	382	9729999	+
3R	23818237	23819119	peak_5557	30.47042	23818719	FBtr0084530	CG33111-RB	50	23818769	-
3R	20789498	20790979	peak_5381	17.24148	20790448	FBtr0083962	Syp-RD	462	20789986	+
3L	13389112	13390177	peak_3765	16.05663	13389479	FBtr0321318	Poc1-RB	527	13390006	-
2L	11517105	11517591	peak_961	46.57809	11517300	FBtr0080239	CG4970-RB	91	11517391	+
2R	11970500	11971255	peak_2035	14.3338	11970632	FBtr0088041	ADD1-RB	54	11970686	+
2R	16730516	16731401	peak_2385	23.56257	16731052	FBtr0113380	CG30463-RD	332	16731384	-
2R	18139823	18140499	peak_2492	16.64565	18140035	FBtr0086736	pAbp-RC	43	18140078	+
3R	24054751	24057430	peak_5594	17.84423	24056682	FBtr0084589	Hsp68-RA	628	24057310	-
2R	10725141	10725875	peak_1966	15.4749	10725328	FBtr0088215	CG12309-RA	58	10725270	+
2R	14668221	14668934	peak_2263	12.14226	14668482	FBtr0300765	CG12866-RC	34	14668448	+
3R	24279332	24279998	peak_5624	10.58593	24279483	FBtr0084600	CG13611-RA	89	24279572	+
2L	5387322	5387667	peak_545	11.09627	5387475	FBtr0342942	CR44745-RA	76	5387551	+
3L	14036490	14038655	peak_3783	13.77455	14037228	FBtr0075773	Hsc70Cb-RC	27	14037255	+
2R	12593276	12593989	peak_2097	10.08448	12593529	FBtr0333099	Amph-RB	75	12593604	+
3R	13309084	13309480	peak_4998	11.09627	13309280	FBtr0082744	CG32473-RB	106	13309386	+
2R	23072123	23072799	peak_2792	11.61518	23072481	FBtr0071962	tRNA:CR30202-RA	100	23072581	+
3R	12447480	12450526	peak_4957	26.26251	12447809	FBtr0082631	CG5538-RA	156	12447653	+
2L	1586174	1587322	peak_305	20.95932	1587022	FBtr0077917	CG10869-RA	133	1587155	-
2R	8370940	8373092	peak_1801	76.36089	8371365	FBtr0088740	CG8701-RA	292	8371073	+
2L	3357539	3358034	peak_437	12.14226	3357689	FBtr0077588	CG8838-RA	43	3357646	+
2R	17766635	17767959	peak_2477	19.69469	17766922	FBtr0340275	CR44416-RA	24	17766946	+
3L	21728477	21729043	peak_4255	12.67755	21728870	FBtr0078432	Rpb8-RA	62	21728932	+
2L	12398159	12398788	peak_1002	35.60972	12398411	FBtr0080365	Pkd2-RA	137	12398274	+
2L	17434787	17435523	peak_1262	10.08448	17434994	FBtr0080980	CG5043-RA	1132	17433862	+
3L	15161560	15162109	peak_3834	13.22238	15161857	FBtr0075643	CG6878-RA	40	15161817	+
2L	1344290	1344757	peak_304	14.90051	1344476	FBtr0077924	Cdlc2-RA	15	1344461	+
3R	31980749	31981430	peak_6020	78.23039	31980977	FBtr0306693	heph-RY	192	31981169	-
3R	30039550	30039894	peak_5882	24.90064	30039721	FBtr0346862	Sry-alpha-RB	2	30039719	+

3L	7360423	7363518	peak_3373	15.4749	7360668	FBtr0076847	Sec63-RA	107	7360561	+
2R	14602876	14604403	peak_2252	19.07141	14603339	FBtr0089615	tra2-RD	527	14603866	-
3R	26875256	26876454	peak_5759	17.84423	26875971	FBtr0085063	ms (3) K81-RA	119	26875852	+
3L	8108987	8110555	peak_3430	17.24148	8109201	FBtr0076683	fan-RA	69	8109132	+
2L	2976107	2977122	peak_410	21.60102	2976905	FBtr0077676	CG9641-RA	43	2976862	-
3L	22867285	22868369	peak_4300	15.4749	22867761	FBtr0347060	CG11137-RB	482	22868243	-
2L	2414495	2415644	peak_366	20.95932	2415154	FBtr0307079	CG18641-RC	168	2415322	-
3R	24925106	24925815	peak_5676	13.22238	24925492	FBtr0337011	Trf4-2-RB	66	24925426	+
2L	6062593	6063499	peak_596	13.22238	6063060	FBtr0343122	CG13994-RB	71	6062989	+
3R	14326753	14327917	peak_5058	14.90051	14327151	FBtr0082931	CG3321-RA	83	14327068	+
2L	7257365	7257629	peak_705	12.14226	7257466	FBtr0300460	CG31909-RC	46	7257512	+
3R	5370059	5370860	peak_4494	12.67755	5370240	FBtr0346517	CG34277-RE	64	5370304	+
2R	25076109	25077570	peak_2945	11.09627	25076687	FBtr0072446	tRNA:CR30199-RA	78	25076765	+
3L	22865160	22865700	peak_4299	15.4749	22865457	FBtr0089836	CG33170-RA	29	22865486	+
2R	13596558	13596967	peak_2177	12.67755	13596806	FBtr0087624	S-Lap5-RA	129	13596677	+
3L	14684626	14684633	peak_3808	12.14226	14684827	FBtr0075684	CG5048-RA	59	14684768	+
3R	31985053	31985920	peak_6022	11.09627	31985369	FBtr0112866	heph-RN	399	31985768	-
3R	21867623	21868626	peak_5461	10.58593	21868005	FBtr0336880	Cby-RD	2	21868003	+
2L	18008049	18010726	peak_1280	60.08994	18009389	FBtr0081028	CG31740-RA	436	18008953	+
3L	17514072	17514901	peak_3991	13.22238	17514537	FBtr0075175	CG7564-RA	239	17514298	+
2R	8122715	8123321	peak_1779	10.58593	8123068	FBtr0088783	Nup50-RA	32	8123036	+
2R	15381271	15381903	peak_2307	11.09627	15381447	FBtr0087384	SRPK-RB	2	15381449	+
2L	6071835	6072389	peak_604	10.58593	6072136	FBtr0302212	Kr-h2-RB	77	6072213	+
3L	4173731	4174140	peak_3257	10.58593	4173877	FBtr0073218	CG18675-RA	7	4173884	+
3L	5751182	5752554	peak_3305	13.77455	5751540	FBtr0077123	DnaJ-1-RA	649	5752189	-
3R	5627522	5627956	peak_4527	12.67755	5627757	FBtr0078706	CG31551-RA	95	5627852	+
3R	15244065	15245899	peak_5118	19.69469	15244578	FBtr0083056	Hsc70-4-RF	322	15244256	+
3L	4069131	4070149	peak_3242	13.77455	4069402	FBtr0300989	CG32259-RD	33	4069369	+
3L	19914834	19915649	peak_4134	12.67755	19915007	FBtr0074893	Rpn1-RA	44	19915051	+
3L	10048215	10048450	peak_3583	10.08448	10048350	FBtr0346943	CR45878-RA	48	10048302	+
2R	20666150	20668419	peak_2655	22.24879	20667016	FBtr0086245	Fem-1-RA	290	20667306	-
2L	5243078	5244202	peak_533	14.3338	5243409	FBtr0079087	tkv-RC	730	5244139	-
3R	20890640	20891417	peak_5401	11.09627	20891117	FBtr0083976	tRNA:CR31334-RA	5	20891122	+
3L	1251924	1255340	peak_3034	23.56257	1254128	FBtr0100645	CG9133-RB	275	1253853	+
2L	849577	851226	peak_280	36.36405	850246	FBtr0334793	CR44060-RA	456	850702	+
3L	9854492	9855263	peak_3575	16.05663	9854817	FBtr0076368	RasGAP1-RB	468	9855285	-
3R	30127986	30130002	peak_5890	22.90261	30128937	FBtr0085586	Ppil-RB	182	30129119	-
3L	1864682	1865667	peak_3095	11.61518	1865522	FBtr0072834	CG12025-RA	92	1865430	+
3L	17849561	17850132	peak_4014	10.58593	17849751	FBtr0331811	CG7441-RB	24	17849727	+
3R	4426886	4429939	peak_4422	32.64424	4429347	FBtr0078946	srl-RB	12	4429335	-
3R	23752249	23753207	peak_5550	20.95932	23752836	FBtr0335003	RanBP3-RB	2	23752834	-

3R	22212018	22212419	peak_5476	11.09627	22212167	FBtr0305038	Gld2-RB	25	22212192	+
3L	22329565	22330088	peak_4274	14.3338	22329705	FBtr0078501	CG32450-RA	73	22329778	+
3R	30133721	30135104	peak_5893	14.3338	30134426	FBtr0085584	Tpi-RC	117	30134309	-
2L	4149120	4150065	peak_464	15.4749	4149370	FBtr0077468	CG2955-RA	91	4149279	+
2L	1980666	1981558	peak_324	13.22238	1981263	FBtr0077814	CG15362-RA	87	1981176	+
3R	22587645	22588077	peak_5502	12.14226	22587860	FBtr0113395	Efa6-RC	105	22587755	+
3R	26947528	26948559	peak_5764	11.61518	26947916	FBtr0085068	CG18472-RA	48	26947868	+
2R	14235038	14235534	peak_2227	13.22238	14235202	FBtr0339759	Opa1-RC	247	14235449	-
3L	3892126	3893355	peak_3223	17.84423	3893193	FBtr0333140	Fie-RB	462	3892731	+
2R	21669690	21670601	peak_2711	15.4749	21670190	FBtr0071666	NC2alpha-RA	38	21670152	+
2L	15113320	15114026	peak_1152	11.09627	15113544	FBtr0080705	stc-RB	64	15113480	+
3R	25959268	25959512	peak_5729	10.58593	25959324	FBtr0084948	CG14540-RA	45	25959279	+
3R	13661097	13661593	peak_5012	12.14226	13661356	FBtr0308195	B52-RM	45	13661311	+
3R	15972487	15973738	peak_5158	11.61518	15973189	FBtr0301715	Hel189B-RB	109	15973298	+
2L	21200097	21202900	peak_1443	42.56455	21201951	FBtr0081490	CG31988-RA	758	21202709	-
X	20735297	20735705	peak_6211	10.08448	20735539	FBtr0346615	CG1324-RC	421	20735960	-
2L	17500135	17500953	peak_1272	16.05663	17500754	FBtr0080994	CG6412-RA	352	17501106	-
2L	14338120	14338443	peak_1115	10.58593	14338283	FBtr0343676	CG15286-RB	43	14338240	+
3R	11553952	11554285	peak_4899	10.58593	11554124	FBtr0082409	CG14708-RA	21	11554145	+
3L	21639195	21639722	peak_4251	10.08448	21639377	FBtr0078425	CG32445-RA	18	21639359	+
2L	6498305	6498911	peak_636	10.58593	6498535	FBtr0343155	CG31637-RB	112	6498647	+
2R	22660346	22660920	peak_2770	12.67755	22660607	FBtr0301269	CG42565-RA	124	22660483	+
2R	16607455	16607822	peak_2383	19.07141	16607644	FBtr0087108	CG5065-RA	10	16607654	+
2L	10651465	10651881	peak_913	10.58593	10651706	FBtr0080103	CG17098-RA	93	10651613	+
2R	19713958	19714528	peak_2623	19.07141	19714174	FBtr0086329	CG8517-RA	98	19714076	+
2L	6120549	6121264	peak_613	14.3338	6121027	FBtr0304908	stai-RD	353	6120674	+
3L	13025684	13026484	peak_3747	31.18979	13026296	FBtr0075894	Zmynd10-RA	141	13026437	-
3R	24661303	24661956	peak_5658	19.69469	24661757	FBtr0084664	Ppox-RA	94	24661851	-
3R	13382005	13384152	peak_5000	13.77455	13383730	FBtr0082754	Droj2-RD	396	13383334	+
2R	10819792	10820215	peak_1977	10.58593	10819944	FBtr0088224	Prosbeta5-RB	34	10819978	+
2R	6992419	6994022	peak_1684	19.69469	6992812	FBtr0089760	CG30159-RB	108	6992920	+
2L	14355007	14355457	peak_1118	11.61518	14355151	FBtr0080626	Rab14-RA	6	14355145	+
2R	16866908	16867691	peak_2402	10.08448	16867436	FBtr0087073	Psi-RA	278	16867714	-
3L	14537380	14537983	peak_3802	13.22238	14537818	FBtr0075719	Mpcp-RB	92	14537726	+
3R	27947499	27948064	peak_5799	13.77455	27947876	FBtr0085266	mfrn-RA	145	27948021	-
3L	10468452	10469223	peak_3590	24.90064	10468755	FBtr0334098	S-Lap3-RC	2420	10466335	+
3L	7359232	7360233	peak_3372	13.77455	7359888	FBtr0332731	pst-RG	228	7360116	-
3R	9576614	9578592	peak_4769	15.4749	9577217	FBtr0301189	Kap-alpha3-RD	256	9577473	-
3R	11591307	11592426	peak_4905	12.67755	11591986	FBtr0082457	Jupiter-RB	258	11592244	-
3L	14705286	14705694	peak_3810	12.67755	14705472	FBtr0075687	CG13476-RB	8	14705464	+
3L	16673844	16675057	peak_3945	11.61518	16674074	FBtr0075316	CG13032-RA	110	16673964	+

2R	6014445	6015828	peak_1614	20.32366	6015527	FBtr0086029	Act42A-RA	162	6015689	-
3R	16098319	16098823	peak_5166	14.90051	16098493	FBtr0083229	Mhcl-RA	268	16098761	-
2L	4700971	4701444	peak_488	17.84423	4701165	FBtr0077420	Taf12L-RA	320	4701485	-
2R	23844830	23845549	peak_2852	14.3338	23845180	FBtr0072126	CG5554-RA	179	23845001	+
3L	16602375	16603458	peak_3932	11.61518	16603105	FBtr0331559	CG32164-RB	52	16603053	+
3R	20850623	20851033	peak_5400	10.08448	20850809	FBtr0083970	RpS30-RB	25	20850834	+
2L	18694613	18695518	peak_1314	12.14226	18695209	FBtr0089628	CG10383-RA	217	18695426	-
3L	15509238	15510183	peak_3846	10.58593	15509451	FBtr0091756	gdl-ORF39-RA	6	15509445	+
3R	15212744	15214189	peak_5113	16.05663	15213276	FBtr0083139	CG6654-RA	382	15213658	-
2R	14170345	14170797	peak_2221	12.14226	14170640	FBtr0087525	CG8331-RA	178	14170462	+
3L	9462471	9463047	peak_3541	18.45464	9462648	FBtr0343557	CG44838-RH	41	9462607	+
3R	29805972	29806972	peak_5860	11.61518	29806504	FBtr0085534	ncd-RA	243	29806747	-
2R	22596262	22597929	peak_2760	17.84423	22596814	FBtr0345701	CR45328-RA	311	22597125	-
2L	4971541	4972008	peak_503	10.58593	4971784	FBtr0078995	CG14043-RA	82	4971702	+
2L	7840268	7840837	peak_729	11.61518	7840450	FBtr0079526	CG14537-RA	2	7840452	+
3L	13442500	13443013	peak_3767	17.84423	13442635	FBtr0331533	CG10732-RC	41	13442594	+
3L	1334675	1335258	peak_3043	13.22238	1334888	FBtr0072679	l(3)02640-RA	1	1334889	+
2R	12513849	12514640	peak_2088	17.84423	12514321	FBtr0339635	achi-RD	77	12514398	-
2R	16010834	16011813	peak_2326	11.61518	16011344	FBtr0087263	CG8388-RA	94	16011438	-
2R	14575168	14575876	peak_2249	20.32366	14575639	FBtr0333166	LamC-RB	132	14575771	-
2R	13991052	13991429	peak_2208	12.14226	13991316	FBtr0087596	mam-RA	113	13991203	+
2R	9109130	9109677	peak_1840	12.67755	9109381	FBtr0088630	Pmm45A-RA	337	9109718	-
2L	6070721	6071263	peak_603	11.61518	6070988	FBtr0079192	Kr-h2-RA	2	6070990	+
2L	8980629	8982112	peak_805	10.08448	8980741	FBtr0079760	CG18662-RA	82	8980659	+
2R	18819444	18819947	peak_2536	16.05663	18819608	FBtr0112863	Phb2-RF	141	18819467	+
2L	17989638	17991131	peak_1277	13.22238	17990812	FBtr0081025	Prosbeta5R2-RA	394	17990418	+
3L	12044476	12044983	peak_3692	12.67755	12044673	FBtr0310008	CG43638-RA	94	12044579	+
2L	13903395	13904293	peak_1106	12.14226	13903919	FBtr0343669	Smg5-RC	289	13904208	-
2R	1344335	1345887	peak_1558	11.09627	1344941	FBtr0344755	Yeti-RB	178	1345119	-
2R	9017730	9018164	peak_1832	11.09627	9017893	FBtr0088660	CG13747-RA	78	9017815	+
3R	28888872	28890549	peak_5825	11.61518	28889047	FBtr0299752	Doa-RV	26	28889021	+
3L	5152485	5153025	peak_3291	11.61518	5152756	FBtr0077169	Srp54k-RA	78	5152678	+
3R	9679647	9680417	peak_4786	17.24148	9680053	FBtr0082083	nmdyn-D7-RA	114	9679939	+
2L	2869657	2871253	peak_400	22.90261	2869820	FBtr0077628	CG8813-RA	168	2869652	+
3L	19255147	19255785	peak_4081	20.32366	19255569	FBtr0331852	rept-RB	229	19255340	+
2R	8358382	8359489	peak_1794	12.14226	8359012	FBtr0088739	CG11635-RA	474	8358538	+
3R	7528118	7528871	peak_4633	10.58593	7528656	FBtr0081549	alpha-Est6-RA	121	7528777	-
2L	16681845	16682899	peak_1220	16.05663	16682305	FBtr0080944	CG31807-RA	97	16682402	-
2L	15750250	15750782	peak_1163	15.4749	15750553	FBtr0343722	l(2)35Di-RC	525	15751078	-
3L	18621055	18621735	peak_4053	11.61518	18621410	FBtr0346438	not-RC	719	18622129	-
2R	23142015	23142742	peak_2803	17.84423	23142164	FBtr0071968	Klp59D-RA	165	23141999	+

3L	1517353	1518094	peak_3056	10.58593	1517739	FBtr0306557	Psa-RH	112	1517851	+
3L	7364543	7365093	peak_3374	12.14226	7364895	FBtr0346857	CR45835-RA	1297	7363598	-
3L	20400938	20401526	peak_4160	17.24148	20401378	FBtr0078235	trbl-RA	231	20401609	-
3R	14381165	14381795	peak_5064	17.84423	14381630	FBtr0082940	soti-RA	69	14381699	-
3L	16858867	16859793	peak_3962	10.08448	16859251	FBtr0301683	sinah-RC	171	16859080	+
3R	15846383	15847457	peak_5152	11.09627	15846492	FBtr0083184	CG4546-RA	42	15846534	+
3L	8357922	8358761	peak_3451	10.58593	8358590	FBtr0333058	Idh-RK	350	8358940	-
3R	5549660	5551360	peak_4505	19.07141	5550597	FBtr0089313	mia-RA	35	5550632	-
3L	8989427	8990409	peak_3496	17.84423	8990156	FBtr0076552	CG5280-RA	72	8990228	-
3L	22263088	22264094	peak_4266	10.08448	22263432	FBtr0078492	Ddx1-RA	63	22263369	+
2L	2236064	2236499	peak_354	11.61518	2236302	FBtr0335158	CR44115-RA	45	2236347	+
X	11169985	11170685	peak_6188	13.77455	11170391	FBtr0346269	CG1394-RB	287	11170678	-
2L	14880514	14882047	peak_1143	14.90051	14881725	FBtr0080682	Mst35Ba-RA	73	14881652	-
2L	8217516	8218510	peak_759	12.14226	8217714	FBtr0079632	CG8292-RA	303	8218017	-
2L	18208356	18209340	peak_1287	15.4749	18209149	FBtr0081058	CG31802-RA	88	18209237	-
3L	15587293	15587928	peak_3864	11.61518	15587488	FBtr0332095	CG7656-RF	379	15587867	-
3L	11833222	11833739	peak_3688	16.05663	11833398	FBtr0304650	CycA-RC	180	11833578	-
3R	23729563	23730717	peak_5546	27.64516	23730249	FBtr0091662	RNaseMRP:RNA-RA	180	23730429	-
3L	15523114	15524071	peak_3851	13.22238	15523934	FBtr0075600	CG7945-RA	203	15524137	-
2R	18140944	18141500	peak_2493	10.08448	18141327	FBtr0086740	pAbp-RB	48	18141375	+
3R	10310717	10312262	peak_4853	13.22238	10311538	FBtr0337051	CG6293-RB	75	10311613	-
3L	19545066	19545867	peak_4087	10.58593	19545408	FBtr0074937	Rcd7-RB	196	19545604	+
2L	14760680	14762953	peak_1138	33.37759	14761009	FBtr0080670	CG4691-RA	242	14760767	+
3R	8659412	8660984	peak_4685	22.24879	8660326	FBtr0081888	bel-RA	96	8660422	-
3R	28605405	28605788	peak_5815	11.61518	28605593	FBtr0085304	CG9986-RA	486	28606079	+
2L	18943348	18945337	peak_1328	12.14226	18943782	FBtr0342929	ssp3-RB	178	18943960	-
3L	540727	541229	peak_3004	10.58593	540873	FBtr0072550	CG17180-RA	22	540851	+
2R	23074103	23075573	peak_2794	14.90051	23074696	FBtr0071982	Fib-RA	29	23074725	-
3L	11608019	11609366	peak_3662	11.09627	11609053	FBtr0273305	CG6091-RE	412	11609465	-
3R	19904996	19905521	peak_5341	11.61518	19905220	FBtr0083821	RhoGAP92B-RA	56	19905164	+
3L	1298468	1299031	peak_3036	10.58593	1298777	FBtr0089942	scf-RA	105	1298672	+
2L	6799942	6801091	peak_658	27.64516	6800280	FBtr0079338	tRNA:CR31631-RA	536	6799744	+
3R	24030261	24031959	peak_5583	16.05663	24031683	FBtr0084508	KrT95D-RC	144	24031827	-
2L	9436793	9438228	peak_823	12.14226	9437894	FBtr0079821	numb-RB	425	9437469	+
3R	15794593	15795526	peak_5145	13.77455	15795088	FBtr0309859	ns11-RK	1306	15793782	+
3R	30131366	30132447	peak_5892	11.61518	30132134	FBtr0085585	CG31029-RA	261	30132395	-
2R	7343070	7344537	peak_1693	11.09627	7344222	FBtr0334802	CR44071-RA	877	7343345	+
3L	12813044	12813989	peak_3737	12.67755	12813584	FBtr0075944	CG10754-RA	435	12814019	-
2L	20642584	20643322	peak_1393	10.58593	20643129	FBtr0081406	CG17470-RA	115	20643244	-
3L	18618048	18618345	peak_4051	11.09627	18618183	FBtr0075107	tRNA:CR32200-RA	207	18618390	+
3L	20496669	20497109	peak_4165	10.58593	20496932	FBtr0113436	CG32425-RF	391	20497323	+



3L	20798313	20798731	peak_4179	10.08448	20798554	FBtr0078252	CG4365-RB	91	20798645	+
3R	30725975	30726735	peak_5915	10.08448	30726302	FBtr0085699	CG1340-RA	215	30726087	+
2L	20294502	20295688	peak_1385	14.90051	20295018	FBtr0081351	CG12617-RA	325	20294693	+
3R	5463195	5464361	peak_4498	11.61518	5463746	FBtr0330026	PEK-RB	149	5463895	-
2L	4433838	4434561	peak_473	11.09627	4434379	FBtr0112371	CG34178-RC	36	4434415	+
3R	28600261	28601420	peak_5813	10.08448	28600436	FBtr0085302	Hrb98DE-RD	29	28600407	+
3R	21219062	21219460	peak_5428	10.08448	21219242	FBtr0084050	Oga-RA	165	21219077	+
3R	4830173	4830608	peak_4451	10.08448	4830453	FBtr0078874	CG14658-RA	60	4830513	-
2R	21773148	21773694	peak_2718	13.77455	21773369	FBtr0071716	CG4021-RA	74	21773295	+
2L	9579203	9579843	peak_833	14.3338	9579504	FBtr0346456	CG31709-RB	134	9579638	-
2R	7781872	7782441	peak_1738	11.09627	7782076	FBtr0088932	CG30497-RA	561	7782637	-
3R	19247619	19248225	peak_5312	10.08448	19247926	FBtr0083741	CG5217-RA	210	19248136	-
3R	23859463	23859745	peak_5563	14.3338	23859639	FBtr0112907	Pli-RB	30413	23890052	-
2L	5099818	5100608	peak_523	18.45464	5100070	FBtr0345333	CG8680-RB	132	5100202	-
2L	10841643	10842866	peak_924	11.09627	10842606	FBtr0080187	CG6700-RA	9	10842597	-
2L	7799202	7800620	peak_724	12.14226	7799680	FBtr0079493	Herp-RA	167	7799847	-
2R	14933482	14934506	peak_2280	24.22873	14934037	FBtr0087406	CG12853-RA	522	14933515	+
2R	24669242	24670730	peak_2918	72.65845	24669628	FBtr0306655	Pof-RC	231	24669397	+
2R	22935569	22937103	peak_2789	13.22238	22936016	FBtr0303464	CG3800-RB	708	22936724	-
2R	21690466	21691505	peak_2713	34.86029	21691110	FBtr0300626	CG42497-RA	29	21691139	-
3L	14053068	14054367	peak_3788	12.67755	14053527	FBtr0334053	CG32138-RD	312	14053215	+
3L	12525983	12526701	peak_3718	10.58593	12526173	FBtr0075968	eIF-2beta-RA	558	12526731	-
2L	9397615	9398184	peak_819	12.67755	9397929	FBtr0303900	CG4438-RB	59	9397988	-
3R	17081748	17082777	peak_5218	10.08448	17081981	FBtr0305987	kuk-RC	35	17081946	+
2L	13284539	13285083	peak_1072	13.77455	13284776	FBtr0334864	CR44083-RA	151	13284927	+
3L	1604734	1605000	peak_3075	10.08448	1604861	FBtr0300891	CG33791-RE	147	1604714	+
2R	15938765	15939766	peak_2322	23.56257	15939387	FBtr0087294	Mlf-RC	63	15939450	-
2L	13596746	13597309	peak_1097	10.08448	13597118	FBtr0080512	CG9254-RA	68	13597186	-
3R	25888143	25888845	peak_5727	16.05663	25888410	FBtr0339161	Lnk-RE	132	25888542	+
2L	17491733	17492285	peak_1270	12.67755	17491927	FBtr0080997	qua-RB	388	17492315	-
2R	24475230	24475660	peak_2899	16.05663	24475405	FBtr0072297	CG16837-RA	19	24475386	+
3L	7380791	7381904	peak_3380	15.4749	7381432	FBtr0076870	SMSr-RA	42	7381474	-
3L	6971988	6972632	peak_3353	11.61518	6972478	FBtr0076935	CG10063-RA	11	6972467	-
2L	6047470	6048194	peak_591	12.67755	6047814	FBtr0343130	slmo-RE	120	6047934	-
2R	7916174	7917970	peak_1754	22.90261	7917708	FBtr0088848	Cull1-RD	530	7917178	+
2R	12173809	12174273	peak_2052	11.09627	12173985	FBtr0088013	Oda-RA	279	12174264	-
2L	21178302	21178834	peak_1438	10.08448	21178472	FBtr0343872	CR44911-RA	62	21178410	+
2L	9429349	9430060	peak_822	12.14226	9429966	FBtr0343431	FucTB-RC	34	9430000	-
3R	27065264	27066684	peak_5771	10.08448	27065824	FBtr0333426	CG43935-RA	388	27065436	+
2R	12434891	12436318	peak_2078	11.09627	12435606	FBtr0087951	DUBAI-RA	230	12435836	-
3L	17022561	17022983	peak_3972	18.45464	17022726	FBtr0075291	CG6652-RA	130	17022856	-

3R	24360706	24361788	peak_5632	24.22873	24361491	FBtr0084627	CG5762-RA	192	24361683	-
2R	23706610	23707608	peak_2841	12.67755	23707264	FBtr0344995	l(2)tid-RE	183	23707081	+
3R	29503137	29503859	peak_5848	13.22238	29503708	FBtr0333188	Trc8-RE	89	29503797	-
3R	8823215	8824364	peak_4705	15.4749	8824041	FBtr0081930	CG9836-RA	136	8824177	-
2R	22806672	22807148	peak_2783	10.08448	22806853	FBtr0309858	CycB-RE	95	22806948	-
3R	4416270	4417084	peak_4420	11.09627	4416631	FBtr0078923	CG31528-RA	193	4416438	+
3L	9398632	9399258	peak_3518	11.09627	9399095	FBtr0309506	CG4080-RB	132	9399227	-
3R	5219205	5219737	peak_4465	19.07141	5219477	FBtr0078831	Prosbeta2R2-RA	51	5219528	-
3R	10881256	10882291	peak_4877	10.58593	10881491	FBtr0082333	Tpc1-RB	697	10882188	-
2L	6797552	6799739	peak_657	23.56257	6798238	FBtr0332369	nrv2-RG	44	6798194	-
X	5615481	5616383	peak_6168	10.08448	5616090	FBtr0112735	CG34434-RB	280	5616370	-
3L	1477615	1478127	peak_3048	63.61293	1477805	FBtr0332655	robl62A-RB	186	1477619	+
2L	6118412	6119356	peak_611	22.24879	6118855	FBtr0079199	CG31642-RA	343	6118512	+
3R	23758036	23758392	peak_5551	12.14226	23758224	FBtr0084453	Flip-RB	115	23758339	+
3L	836979	838484	peak_3023	11.61518	837591	FBtr0072596	CG13901-RA	14	837577	-
3R	27948513	27949052	peak_5800	10.08448	27948667	FBtr0085254	Gp93-RA	44	27948711	+
2L	16715729	16716188	peak_1227	11.61518	16715880	FBtr0080888	Cyt-c-d-RA	11	16715891	+
2L	14497748	14498178	peak_1127	10.08448	14497980	FBtr0345569	CR45303-RA	136	14498116	-
X	4105772	4106194	peak_6162	13.22238	4105884	FBtr0070640	cib-RC	229	4106113	+
2L	13202752	13203284	peak_1056	11.09627	13203046	FBtr0080488	CG16972-RA	249	13203295	-
2R	9578462	9579138	peak_1868	10.08448	9578914	FBtr0304957	Not1-RG	93	9579007	-
3L	9401361	9401844	peak_3521	13.22238	9401484	FBtr0076493	eIF-4E-RF	321	9401805	-
3L	3070026	3071002	peak_3158	10.58593	3070385	FBtr0073004	CG32486-RD	454	3070839	-
2R	9061351	9062001	peak_1837	18.45464	9061819	FBtr0339286	CG8197-RB	105	9061924	-
2L	5979968	5980936	peak_586	17.24148	5980536	FBtr0079234	chic-RC	55	5980481	-
3L	18822522	18823056	peak_4068	11.61518	18822832	FBtr0075058	Cat-RA	228	18822604	+
3R	22396472	22397550	peak_5488	65.39541	22396873	FBtr0084233	tRNA:CR31162-RA	7	22396880	-
3R	18242151	18243024	peak_5261	17.24148	18242404	FBtr0083566	14-3-3epsilon-RB	127	18242531	+
3R	24649575	24650346	peak_5654	11.09627	24650185	FBtr0084660	ash2-RC	60	24650125	+
2L	5059125	5059930	peak_517	12.67755	5059576	FBtr0079027	Rpn11-RA	214	5059790	-
2R	16158445	16159053	peak_2345	20.95932	16158706	FBtr0087250	CG10734-RA	88	16158794	-
3R	5606221	5607026	peak_4523	11.61518	5606377	FBtr0078743	asl-RA	166	5606543	-
2L	1973872	1974224	peak_322	16.05663	1974105	FBtr0077813	Der-1-RA	7	1974112	+
3R	30014766	30015799	peak_5876	14.3338	30015347	FBtr0085603	CG7920-RA	63	30015284	-
3L	1664454	1665281	peak_3078	14.3338	1665059	FBtr0309252	CG7971-RG	5	1665064	-
3R	27913456	27914209	peak_5794	12.14226	27913915	FBtr0085246	mil-RA	1468	27912447	+
X	18894451	18895627	peak_6207	11.61518	18894837	FBtr0074648	CG7349-RA	330	18894507	+
3L	22728009	22728715	peak_4285	13.22238	22728165	FBtr0078528	CG11367-RA	54	22728111	+
2L	2767251	2768140	peak_388	11.09627	2767530	FBtr0077735	Taf10b-RA	315	2767845	-
3R	4220649	4221144	peak_4386	11.09627	4220908	FBtr0336705	aux-RC	78	4220986	+
2L	13382575	13383633	peak_1084	10.58593	13383062	FBtr0303269	loqs-RD	410	13382652	+

3L	3133654	3134170	peak_3167	13.77455	3133881	FBtr0113133	CG11537-RE	299	3134180	-
3R	21223343	21224090	peak_5430	12.14226	21223540	FBtr0347217	CG3337-RB	44	21223584	-
3L	4138457	4139112	peak_3255	11.09627	4138849	FBtr0310632	Rop-RB	147	4138996	-
2R	12636589	12637585	peak_2102	17.84423	12637148	FBtr0087843	Iswi-RC	477	12636671	+
2R	14656793	14657395	peak_2258	14.90051	14656952	FBtr0087482	Adgf-E-RA	1803	14658755	-
3R	11589702	11590853	peak_4904	14.3338	11590180	FBtr0082459	CG6791-RA	34	11590146	-
3R	13648694	13649346	peak_5008	10.58593	13649100	FBtr0346346	rin-RF	278	13648822	+
2L	4454386	4454922	peak_479	13.22238	4454553	FBtr0077440	CG15434-RA	73	4454626	+
3R	8343522	8344182	peak_4672	10.08448	8343740	FBtr0081839	CG18193-RA	71	8343669	+
3L	3026152	3026763	peak_3147	16.05663	3026502	FBtr0073006	aly-RA	19	3026521	-
3L	20815467	20818228	peak_4180	58.34786	20816713	FBtr0299891	Pka-RI-RK	595	20816118	+
2L	852628	853362	peak_282	23.56257	852982	FBtr0334794	kraken-RB	134	852848	+
3R	31218484	31219910	peak_5931	17.24148	31219726	FBtr0085772	CG1746-RA	96	31219630	-
3R	12678675	12679216	peak_4969	11.09627	12678851	FBtr0082668	mbo-RA	201	12679052	-
3L	2377035	2377430	peak_3113	10.08448	2377220	FBtr0072899	CG15877-RA	336	2377556	-
2R	20264162	20265494	peak_2634	10.08448	20265093	FBtr0332257	CR43812-RA	52	20265145	-
3R	22689626	22690127	peak_5508	10.58593	22689782	FBtr0302856	wfs1-RC	598	22690380	-
2R	17072499	17073192	peak_2415	14.3338	17072943	FBtr0300958	CG30460-RH	109	17073052	-
3L	14001941	14002291	peak_3775	11.09627	14002104	FBtr0333050	upSET-RB	23	14002127	+
2L	13373860	13374306	peak_1082	10.08448	13374032	FBtr0342631	CG6565-RB	13	13374019	+
2R	9969718	9970482	peak_1909	13.22238	9970094	FBtr0339425	Adam-RB	1030	9969064	+
3R	5251272	5251767	peak_4472	10.08448	5251604	FBtr0078823	CG12163-RA	141	5251745	-
3R	30601689	30602335	peak_5911	20.32366	30601883	FBtr0300983	CG31021-RB	323	30602206	+
2L	13203608	13204528	peak_1057	14.90051	13204124	FBtr0334752	Pect-RE	362	13203762	+
3R	30991867	30992679	peak_5921	26.95125	30992327	FBtr0085747	CG31007-RA	130	30992457	-
3R	26866409	26867492	peak_5756	22.90261	26866787	FBtr0085095	ball-RA	20	26866807	-
2R	6152813	6153988	peak_1626	10.58593	6153479	FBtr0100016	tRNA:N5:42Af-RA	100	6153579	-
3L	9476679	9477286	peak_3544	12.14226	9476957	FBtr0076472	Uch-L5-RA	8	9476965	-
3R	19462463	19463318	peak_5322	14.90051	19463149	FBtr0083769	CG6255-RA	83	19463066	-
2R	14752736	14753072	peak_2269	11.09627	14752897	FBtr0087474	Rpn6-RA	13	14752910	-
3L	16647281	16648086	peak_3942	14.3338	16647829	FBtr0345369	Abl-RJ	53	16647882	-
2L	16005786	16006520	peak_1171	20.95932	16006249	FBtr0305220	CG31820-RB	30	16006279	-
2L	12057846	12059268	peak_994	35.60972	12058949	FBtr0342598	CG34164-RC	1171	12057778	+
3R	30989789	30990200	peak_5920	17.84423	30990038	FBtr0085748	CG31008-RA	32	30990006	-
3L	3147582	3148514	peak_3169	10.58593	3148282	FBtr0307308	CG12082-RB	76	3148358	-
3R	28812058	28812578	peak_5820	10.58593	28812283	FBtr0113299	CG1646-RE	118	28812165	+
3R	16750959	16751489	peak_5206	12.14226	16751137	FBtr0083346	CG31275-RA	197	16751334	-
3R	30424180	30425311	peak_5902	15.4749	30425113	FBtr0085628	CG15536-RA	49	30425162	-
2R	13438509	13438879	peak_2156	11.61518	13438690	FBtr0299759	CG42321-RK	361	13439051	-
2R	10086563	10087165	peak_1932	10.58593	10086927	FBtr0089674	sut4-RA	200	10087127	-
3L	1250547	12511740	peak_3033	17.84423	1251163	FBtr0072653	CG9129-RA	467	1250696	+

2R	16205778	16206381	peak_2349	12.14226	16206056	FBtr0087196	mrj-RA	182	16206238	-
2L	14924309	14925134	peak_1146	15.4749	14924650	FBtr0080675	CG3491-RA	60	14924590	+
3R	31747975	31748616	peak_5952	16.64565	31748377	FBtr0085840	CG1910-RD	182	31748559	+
3R	23746817	23747272	peak_5549	12.67755	23747005	FBtr0347324	CR46091-RA	143	23747148	-
3R	13660111	13660522	peak_5011	10.58593	13660342	FBtr0310621	Hrb87F-RD	189	13660531	-
3R	19903028	19903990	peak_5340	13.77455	19903491	FBtr0344261	CG4538-RC	198	19903689	-
2L	2609915	2610383	peak_375	14.3338	2610094	FBtr0114513	CG15395-RB	100	2609994	+
2L	10790213	10791260	peak_922	16.64565	10790405	FBtr0342584	CG31870-RE	183	10790222	+
3L	6550057	6550490	peak_3333	26.95125	6550247	FBtr0307510	CG18769-RG	491	6550738	+
3R	25851648	25852148	peak_5725	10.08448	25852039	FBtr0084907	CG5886-RA	407	25851632	+
2R	24903493	24904231	peak_2935	17.84423	24903972	FBtr0100231	RpL41-RA	37	24903935	-
2L	11948234	11948792	peak_981	12.14226	11948634	FBtr0080282	CG16964-RA	669	11947965	+
2L	329385	330052	peak_258	12.67755	329788	FBtr0330695	CG43755-RD	27	329761	-
2L	3621498	3621958	peak_454	18.45464	3621660	FBtr0077556	CG15418-RA	21	3621681	-
3L	19833516	19834448	peak_4112	10.58593	19834293	FBtr0332154	trc-RB	11	19834304	-
2L	8705498	8706067	peak_800	12.14226	8705660	FBtr0079731	CG9314-RA	88	8705572	+
2L	6686284	6686935	peak_649	21.60102	6686686	FBtr0079315	CG11327-RA	26	6686712	-
2R	13910600	13911152	peak_2194	11.09627	13910719	FBtr0087621	shot-RH	227	13910946	-
2L	10846621	10847385	peak_927	16.64565	10846866	FBtr0332030	Porin2-RB	178	10847044	-
3L	21574523	21575760	peak_4245	14.90051	21575563	FBtr0300057	CG32441-RC	1006	21574557	+
3R	8008931	8009665	peak_4649	10.08448	8009263	FBtr0081821	CG11052-RA	24	8009239	-
3L	803724	804123	peak_3019	11.09627	803895	FBtr0072599	CG13898-RA	156	804051	-
3R	22710485	22710908	peak_5510	10.58593	22710717	FBtr0084330	CG4907-RA	45	22710762	-
3R	15094602	15095152	peak_5099	10.58593	15094966	FBtr0344380	CG6966-RC	665	15095631	-
3R	8344397	8345607	peak_4673	24.90064	8344869	FBtr0081840	DppIII-RB	469	8344400	+
2R	21267260	21267715	peak_2690	14.90051	21267450	FBtr0071620	CG30393-RA	129	21267579	-
3L	8308387	8308999	peak_3446	10.08448	8308803	FBtr0076712	BI-1-RB	138	8308941	-
3L	21636773	21637483	peak_4250	21.60102	21637098	FBtr0078424	CG32444-RA	151	21636947	+
3R	15345907	15346741	peak_5127	10.08448	15346252	FBtr0083087	CG31301-RA	47	15346205	+
2R	23127251	23128268	peak_2801	14.90051	23127926	FBtr0340515	CR44455-RA	151	23128077	-
3R	8340441	8341271	peak_4671	12.67755	8340574	FBtr0305680	CG9603-RB	325	8340899	-
2L	8042591	8042891	peak_739	13.77455	8042718	FBtr0079546	RpL36A-RA	141	8042859	-
2L	13163314	13164893	peak_1044	11.09627	13163699	FBtr0329989	DnaJ-H-RC	1319	13165018	-
3L	4040608	4041019	peak_3236	13.77455	4040830	FBtr0073202	Rcd5-RA	301	4040529	+
2R	9847435	9848016	peak_1892	12.67755	9847843	FBtr0089998	Prosalpha7-RA	7	9847836	-
3L	21577047	21577394	peak_4247	10.58593	21577216	FBtr0333457	CR43939-RA	3	21577219	-
2L	16003497	16003753	peak_1169	10.58593	16003589	FBtr0112358	CG34167-RA	52	16003641	-
3L	9383991	9384878	peak_3515	10.58593	9384288	FBtr0076454	Hsp27-RA	225	9384063	+
3R	24871687	24872273	peak_5671	16.64565	24871991	FBtr0334578	CycB3-RB	1175	24870816	-
2L	3090648	3091288	peak_421	27.64516	3090974	FBtr0077665	toc-RB	63	3090911	-
3R	19860805	19861571	peak_5334	11.09627	19861238	FBtr0113248	Irel-RB	53	19861291	-

3R	16263802	16264226	peak_5180	12.67755	16263979	FBtr0083276	bor-RA	116	16264095	-
3R	17149096	17149528	peak_5220	10.08448	17149204	FBtr0337043	m-cup-RB	208	17149412	-
2R	11293921	11294534	peak_1996	10.08448	11294262	FBtr0336733	CG18336-RB	57	11294319	-
3L	3900337	3900702	peak_3227	140.42876	3900512	FBtr0073180	Ccz1-RB	1356	3899156	-
2R	20623008	20623668	peak_2649	13.77455	20623477	FBtr0086254	CG11180-RA	48	20623429	-
3R	5222837	5223668	peak_4466	10.58593	5223164	FBtr0078830	CG2604-RB	103	5223267	-
3R	7059162	7060326	peak_4597	22.24879	7059987	FBtr0305962	dj-RC	671	7059316	+
3R	24634727	24635197	peak_5653	14.90051	24635014	FBtr0339136	CG43222-RB	63	24635077	-
2L	8082594	8083301	peak_741	11.09627	8083060	FBtr0079543	Mcr-RA	78	8082982	-
3L	8060480	8061300	peak_3426	12.14226	8061116	FBtr0076742	tRNA:CR32360-RA	360	8060756	-
3L	4403219	4403593	peak_3272	11.61518	4403396	FBtr0330179	Syx17-RB	91	4403487	+
2L	6664732	6665195	peak_646	11.61518	6664867	FBtr0333516	CG34310-RC	899	6663968	+
2L	10577314	10577909	peak_911	16.64565	10577675	FBtr0080132	w-cup-RA	117	10577792	-
3L	2243719	2244644	peak_3107	16.64565	2243948	FBtr0332663	CG32301-RD	530	2244478	+
3R	30387354	30387918	peak_5900	20.32366	30387575	FBtr0306587	Fer1HCH-RF	25	30387600	-
3L	5793652	5794428	peak_3314	10.58593	5794196	FBtr0344538	Brel-RB	4	5794192	-
3R	21403618	21405467	peak_5443	23.56257	21403800	FBtr0113262	CG7907-RC	65	21403735	+
2L	16324133	16324988	peak_1188	11.09627	16324325	FBtr0080847	cact-RD	1095	16325420	-
3R	24799367	24799732	peak_5663	13.22238	24799551	FBtr0345210	Ude-RD	26	24799577	-
2R	12510196	12510789	peak_2087	30.47042	12510516	FBtr0087945	vis-RB	99	12510615	-
3R	18982997	18984155	peak_5296	14.90051	18983965	FBtr0343991	gukh-RE	60	18984025	+
2L	18523596	18524039	peak_1304	10.58593	18523849	FBtr0343832	CR44903-RA	92	18523941	-
3L	292010	293129	peak_2993	13.22238	293046	FBtr0333958	RhoGEF3-RH	354	292692	+
3L	17465805	17466344	peak_3984	11.09627	17465992	FBtr0075220	CG7603-RA	47	17465945	+
2R	16287809	16288251	peak_2359	11.09627	16288146	FBtr0087181	CG30324-RA	87	16288233	-
3L	9457725	9458343	peak_3538	10.08448	9458139	FBtr0076463	CG3552-RA	227	9457912	+
2L	20835454	20835874	peak_1416	17.24148	20835652	FBtr0290042	Oseg5-RB	188	20835840	-
2R	18454388	18454685	peak_2521	10.58593	18454519	FBtr0086722	CG17669-RA	57	18454462	-
3R	20557358	20558488	peak_5364	10.58593	20557678	FBtr0344280	att-ORFA-RD	11	20557667	-
3L	16574549	16575370	peak_3918	10.58593	16574847	FBtr0330137	mbf1-RE	202	16574645	+
2L	13165925	13166266	peak_1045	12.67755	13166114	FBtr0080493	DnaJ-H-RB	42	13166072	-
2L	17452932	17453333	peak_1263	11.61518	17453097	FBtr0305682	CG5050-RB	2	17453099	+
2R	18686395	18686947	peak_2531	11.61518	18686721	FBtr0340485	CG44433-RA	54	18686775	-
3R	25032912	25033775	peak_5679	11.09627	25033597	FBtr0084796	Smg6-RA	132	25033465	-
3R	5588108	5589205	peak_4512	12.67755	5588364	FBtr0078752	CG2926-RA	16	5588380	-
2L	2987050	2987674	peak_411	12.14226	2987514	FBtr0305980	Chd1-RB	32	2987482	-
3R	8944808	8945215	peak_4710	22.90261	8945052	FBtr0082015	CG11964-RA	32	8945020	-
3R	5257295	5258601	peak_4474	10.58593	5257527	FBtr0334276	Hph-RC	490	5257037	+
3L	10490809	10493459	peak_3592	83.9138	10491300	FBtr0076288	S-Lap4-RA	439	10490861	+
3L	7387118	7387465	peak_3382	14.90051	7387254	FBtr0076869	CG8564-RA	109	7387363	-
3R	10331050	10331826	peak_4855	13.77455	10331421	FBtr0331683	Bruce-RD	68	10331353	-

3L	8192774	8193270	peak_3441	12.67755	8193021	FBtr0076723	CG7387-RA	95	8193116	-
2R	11420481	11421357	peak_2002	11.09627	11420614	FBtr0331388	Drip-RD	4056	11424670	-
3R	31057900	31058630	peak_5924	10.08448	31058175	FBtr0334548	dco-RD	3035	31061210	-
2R	8361877	8362300	peak_1796	12.14226	8362128	FBtr0339351	hub1-RB	28	8362156	-
3R	25482331	25483150	peak_5701	14.3338	25482499	FBtr0344719	XNP-RD	79	25482578	-
3R	10735336	10736082	peak_4872	10.58593	10735941	FBtr0082316	tomboy20-RA	16	10735957	-
3R	12366500	12367139	peak_4945	14.90051	12366905	FBtr0082608	GstD9-RA	659	12367564	-
3R	24221927	24222639	peak_5606	11.09627	24222068	FBtr0084571	twin-RF	103	24221965	-
3R	18628229	18628562	peak_5282	11.09627	18628352	FBtr0083693	tRNA:CR31228-RA	186	18628538	-
2R	23986539	23987006	peak_2872	12.14226	23986701	FBtr0072159	CG30178-RA	86	23986615	+
2L	2771479	2772070	peak_391	29.04851	2771870	FBtr0077730	CG15399-RA	94	2771776	-
3L	11120608	11121011	peak_3626	10.08448	11120776	FBtr0301967	fd68A-RK	7	11120783	-
2L	10431277	10432159	peak_903	11.61518	10431440	FBtr0080025	TfIIB-RA	102	10431338	+
3L	9423360	9424162	peak_3530	10.08448	9423655	FBtr0076457	aay-RA	402	9423253	+
3L	19543877	19544329	peak_4086	14.3338	19544050	FBtr0074976	CG9279-RB	122	19544172	-
3R	7530861	7531903	peak_4635	16.05663	7531255	FBtr0081538	alphaTub84D-RA	502	7530753	+
2L	17626119	17626501	peak_1273	10.58593	17626350	FBtr0080988	CG15147-RA	31	17626381	-
2R	6190315	6190886	peak_1635	14.90051	6190635	FBtr0085989	tRNA:N5:42Ad-RA	263	6190372	+
2R	17406374	17406776	peak_2430	11.09627	17406623	FBtr0340144	CG6568-RB	527	17407150	-
3R	21097570	21098673	peak_5407	12.67755	21097841	FBtr0084036	RhoGAP93B-RA	14	21097827	-
3R	17391751	17392359	peak_5223	10.08448	17392177	FBtr0336488	CR44160-RA	4	17392173	-
2R	6980916	6981492	peak_1678	15.4749	6981217	FBtr0344617	CR44171-RB	22	6981195	-
3R	24037457	24038545	peak_5586	10.58593	24037594	FBtr0084596	Miro-RE	136	24037730	-
2R	24499865	24500596	peak_2900	13.77455	24500328	FBtr0072351	Ss1-RA	61	24500267	-
2R	17722303	17722706	peak_2469	10.58593	17722419	FBtr0086859	CG10934-RA	80	17722339	+
2L	15960050	15961931	peak_1168	24.22873	15961484	FBtr0080808	beat-Ib-RA	951	15962435	-
3R	14511283	14511995	peak_5071	20.32366	14511603	FBtr0330045	HtrA2-RB	109	14511712	-
3L	1307142	1307770	peak_3039	11.09627	1307470	FBtr0331867	CG2277-RB	52	1307418	-
2L	10766699	10767241	peak_921	11.61518	10767070	FBtr0080116	Ubc2-RB	16	10767086	-
3R	11221570	11223196	peak_4887	12.14226	11221744	FBtr0082367	CG6693-RA	105	11221639	-
2L	8212603	8213337	peak_755	14.90051	8212927	FBtr0079634	CG8372-RB	25	8212902	-
3R	4784364	4785168	peak_4444	10.08448	4784795	FBtr0078880	CG17387-RA	73	4784722	-
3L	15302615	15302920	peak_3838	13.77455	15302765	FBtr0075618	Best3-RA	20	15302785	-
2R	20562755	20563064	peak_2643	10.08448	20562965	FBtr0342705	CG43308-RB	36	20563001	-
2L	12697140	12698107	peak_1023	11.61518	12697525	FBtr0080409	CG5781-RA	202	12697323	-
3R	22018743	22019561	peak_5469	16.64565	22019178	FBtr0084190	CG6439-RA	6	22019184	-
3R	5601381	5602843	peak_4522	21.60102	5601594	FBtr0333278	CG1427-RD	161	5601433	+
3R	10761370	10762417	peak_4874	11.61518	10762033	FBtr0344136	CR45016-RB	236	10761797	-
2R	14255606	14256860	peak_2228	12.14226	14256068	FBtr0339969	Hsc70-5-RB	7	14256061	-
3L	2502556	2502956	peak_3120	18.45464	2502757	FBtr0072966	CG16758-RF	58	2502815	-
2L	18708168	18709107	peak_1319	12.67755	18708557	FBtr0343115	Faf-RB	42	18708599	-

3L	8533200	8533593	peak_3462	11.09627	8533398	FBtr0301629	ergic53-RA	1579	8534977	+
3L	4689741	4690166	peak_3283	10.58593	4689992	FBtr0073366	CG18418-RA	78	4690070	-
3R	24359743	24360511	peak_5631	13.77455	24360174	FBtr0084628	CG18528-RA	30	24360144	-
2L	20923793	20924378	peak_1422	11.61518	20924033	FBtr0081439	Mtp-RA	1157	20922876	-
3R	20985920	20986234	peak_5403	10.58593	20986037	FBtr0309203	Calx-RE	58	20985979	+
3L	13279799	13280354	peak_3759	49.86517	13280007	FBtr0344572	CR43146-RD	2386	13282393	+
3R	18301399	18301871	peak_5271	13.77455	18301686	FBtr0083594	CG18600-RA	42	18301728	-
3L	9815747	9816064	peak_3573	12.14226	9815908	FBtr0332824	CG43897-RG	154	9816062	+
3R	23203895	23204214	peak_5528	11.09627	23204052	FBtr0084399	fzo-RA	18	23204034	-
3L	6665273	6665758	peak_3337	14.3338	6665588	FBtr0076963	eIF4E-4-RA	53	6665641	-
2L	13160479	13161901	peak_1042	20.95932	13160707	FBtr0080433	CG5204-RA	180	13160527	+
2L	12974831	12975304	peak_1033	11.09627	12974939	FBtr0305551	Vha68-2-RD	247	12975186	+
2L	11120008	11120463	peak_942	14.90051	11120280	FBtr0080228	CG6230-RA	39	11120319	-
3L	2265518	2266074	peak_3109	11.09627	2265886	FBtr0072903	ecd-RA	29	2265857	-
2R	19714750	19715466	peak_2624	14.3338	19714990	FBtr0086330	tRNA:CR30215-RA	575	19715565	+
3L	5780358	5781051	peak_3311	10.58593	5780554	FBtr0091709	PGRP-LD-RA	290	5780264	+
3R	24914838	24915794	peak_5674	64.50218	24915340	FBtr0084721	tRNA:CR31416-RA	209	24915131	-
3R	16274051	16275209	peak_5181	16.64565	16274322	FBtr0100331	gish-RF	1321	16273001	+
2R	6225509	6226025	peak_1640	10.08448	6225666	FBtr0085994	tomboy40-RA	32	6225634	+
3L	14691321	14691719	peak_3809	10.58593	14691519	FBtr0075685	CG13477-RA	172	14691347	+
2R	24948148	24948774	peak_2938	11.61518	24948313	FBtr0072409	CG2790-RA	65	24948378	-
2R	8365126	8365554	peak_1799	16.05663	8365285	FBtr0113373	swif-RB	60	8365345	-
2R	24599459	24600194	peak_2909	19.69469	24599855	FBtr0072339	CG4692-RB	34	24599821	-
2L	5009565	5011487	peak_508	31.9148	5009779	FBtr0079038	Rtnl1-RF	59	5009720	-
2R	22068181	22069272	peak_2733	11.09627	22069085	FBtr0339101	Snp-RF	810	22068275	+
3L	5932298	5932880	peak_3320	15.4749	5932688	FBtr0077076	Rcc1-RC	76	5932612	-
2L	15263979	15264433	peak_1154	14.90051	15264247	FBtr0080709	yuri-RB	20	15264227	-
2L	14548745	14549238	peak_1132	15.4749	14549073	FBtr0343704	CG4218-RC	36	14549109	-
3L	16049518	16050018	peak_3900	11.61518	16049727	FBtr0333615	CR43951-RA	492	16049235	+
2L	17473502	17474676	peak_1267	11.09627	17473591	FBtr0080982	Sgt-RA	101	17473490	+
3R	15131656	15132098	peak_5103	35.60972	15131922	FBtr0303485	CG42788-RC	4	15131926	-
2L	2948841	2949222	peak_408	10.58593	2949071	FBtr0290038	lilli-RD	2508	2946563	+
2R	15927267	15927712	peak_2319	11.09627	15927535	FBtr0087299	bdg-RB	795	15928330	-
3R	7529564	7530363	peak_4634	11.61518	7529931	FBtr0307275	Rtnl2-RB	48	7529883	-
2R	22650557	22651544	peak_2768	19.07141	22651318	FBtr0071861	nsr-RA	762	22650556	+
3R	30022384	30023087	peak_5878	11.09627	30022742	FBtr0085601	RpS28a-RA	94	30022648	-
3R	5780885	5781294	peak_4549	10.58593	5781137	FBtr0306153	CG2082-RO	61	5781076	-
3L	13009943	13010912	peak_3743	13.77455	13010446	FBtr0075899	CG11261-RA	1239	13011685	-
2R	16998349	16998939	peak_2409	10.08448	16998649	FBtr0344460	CG30461-RK	55	16998594	-
3R	23157518	23158210	peak_5523	37.12309	23157931	FBtr0337052	unk-RF	69	23157862	-
2R	21501694	21502323	peak_2695	15.4749	21502097	FBtr0071701	TAF1C-like-RA	365	21501732	-

3L	15588896	15590035	peak_3866	12.14226	15589107	FBtr0075568	RhoGAP71E-RA	247	15588860	+
2R	7407505	7407973	peak_1697	11.09627	7407839	FBtr0089007	Eaf-RD	20	7407819	-
2R	12938065	12938542	peak_2123	19.07141	12938346	FBtr0087802	CG30487-RA	3	12938343	-
3R	30427816	30428444	peak_5903	10.58593	30428207	FBtr0339142	CG2218-RB	29	30428178	-
2L	5799928	5800420	peak_572	12.14226	5800291	FBtr0301234	CG9171-RC	38	5800253	-
3R	27937526	27938206	peak_5798	10.08448	27938087	FBtr0085253	CG5514-RB	158	27938245	+
2L	13395935	13396504	peak_1086	10.58593	13396229	FBtr0080523	CG16957-RA	45	13396184	-
2L	420057	420578	peak_260	11.09627	420320	FBtr0078056	RpLP1-RA	368	419952	+
2L	5596783	5597100	peak_559	14.90051	5596917	FBtr0079109	CG18266-RA	84	5596833	+
2R	13354107	13354645	peak_2148	10.08448	13354484	FBtr0302450	CG17048-RB	15	13354499	-
2R	21266032	21266481	peak_2688	12.14226	21266224	FBtr0071621	CG30391-RA	118	21266342	-
2L	2552455	2552955	peak_371	13.77455	2552618	FBtr0077750	CG3515-RA	207	2552825	-
2R	7825608	7826762	peak_1751	12.14226	7826226	FBtr0088839	phr-RB	705	7825521	+
3L	262541	262882	peak_2990	11.61518	262722	FBtr0332107	Tudor-SN-RB	1658	264380	-
2R	8599793	8600223	peak_1802	10.08448	8599990	FBtr0339357	CG8735-RB	28	8599962	-
2R	17564395	17565247	peak_2446	11.61518	17564585	FBtr0086827	CG14480-RA	245	17564340	+
3L	843890	844527	peak_3024	31.18979	844094	FBtr0332752	CG13889-RB	168	843926	+
3L	20265819	20266416	peak_4150	10.58593	20266142	FBtr0344956	CR43876-RC	58	20266200	-
3R	29122802	29123097	peak_5835	11.09627	29122951	FBtr0330292	yem-RB	72	29122879	-
3R	22402939	22403313	peak_5489	26.95125	22403137	FBtr0084224	CG13856-RA	482	22402655	+
3R	4389001	4389994	peak_4408	11.09627	4389633	FBtr0302339	CG14646-RB	733	4390366	+
3R	14655089	14655430	peak_5082	10.08448	14655245	FBtr0344158	l(3)L1231-RD	48	14655197	-
3L	14410410	14410954	peak_3799	14.90051	14410718	FBtr0345393	CR45233-RA	20	14410698	-
2L	5668658	5670660	peak_563	37.12309	5668996	FBtr0079111	Hsp60C-RC	6147	5662849	+
3L	21532866	21533359	peak_4233	12.67755	21533047	FBtr0078383	Mkrnl-RA	666	21533713	-
3R	4796569	4797897	peak_4445	14.90051	4797146	FBtr0301437	ctrip-RA	5696	4802842	-
3R	20758131	20758485	peak_5374	15.4749	20758297	FBtr0334711	Syp-RI	1568	20756729	+
3R	19156735	19157075	peak_5303	11.09627	19156912	FBtr0335020	CG11779-RE	100	19156812	-
2R	16491081	16493050	peak_2367	42.56455	16491488	FBtr0087087	S-Lap8-RA	388	16491100	+
3R	29319295	29319794	peak_5843	11.61518	29319608	FBtr0334873	Cnx99A-RE	10	29319598	-
2L	1689854	1690858	peak_310	25.57894	1690104	FBtr0077881	cpb-RA	14798	1704902	+
3L	15053942	15054426	peak_3824	32.64424	15054246	FBtr0333874	CG18649-RB	111	15054135	-
2R	19399811	19400335	peak_2580	13.22238	19400114	FBtr0309059	CR43430-RA	345	19399769	+
2R	22075042	22075667	peak_2735	12.67755	22075225	FBtr0071800	CG2921-RA	83	22075308	-
2R	7938883	7939387	peak_1755	11.61518	7939072	FBtr0088882	CG8728-RA	42	7939114	-
2L	18859228	18859492	peak_1327	14.3338	18859339	FBtr0308069	CG10602-RE	91	18859248	-
3L	6979943	6980204	peak_3354	10.08448	6980084	FBtr0076934	Galpai-RA	40	6980044	-
2L	7232691	7232928	peak_704	11.09627	7232787	FBtr0332004	CG43800-RA	26	7232813	-
3R	25489067	25489457	peak_5702	16.05663	25489261	FBtr0330374	Dhap-at-RB	1205	25490466	-
3R	26468357	26471413	peak_5749	10.08448	26470226	FBtr0085016	CG5455-RB	4686	26465540	+
2L	8490157	8490486	peak_789	10.58593	8490296	FBtr0308708	CG43400-RA	443	8490739	+



2L	254523	254832	peak_240	12.67755	254732	FBtr0336989	CG3645-RC	18	254750	-
2L	16257321	16257799	peak_1176	14.3338	16257609	FBtr0080856	PRL-1-RB	3	16257606	-
2L	20387047	20387647	peak_1390	18.45464	20387447	FBtr0081371	CG16798-RA	5091	20382356	-
2L	17047790	17048345	peak_1249	20.32366	17048170	FBtr0080954	CG15136-RA	102	17048068	-
3L	7241989	7242510	peak_3361	19.07141	7242178	FBtr0333367	Neos-RB	361	7241817	+
2R	6761106	6762057	peak_1662	10.58593	6761577	FBtr0086134	CG9436-RA	2674	6758903	-
3R	7474317	7475118	peak_4628	130.69949	7474755	FBtr0081559	CG1142-RA	974	7473781	-
2R	12180691	12181228	peak_2055	10.08448	12180886	FBtr0087989	wash-RA	263	12180623	+
3R	15263296	15263901	peak_5119	19.07141	15263501	FBtr0337054	eIF-2gamma-RD	43	15263458	-
3L	19893249	19895463	peak_4125	31.18979	19895056	FBtr0304110	CR32218-RA	1335	19896391	-
2R	18862827	18863221	peak_2542	10.08448	18862968	FBtr0304817	CG43069-RA	106	18862862	+
3R	15004768	15005092	peak_5098	12.14226	15004953	FBtr0346233	CR45599-RA	11	15004942	-
3R	8820520	8820901	peak_4703	11.09627	8820675	FBtr0334659	CG9821-RC	7	8820682	-
2L	6153063	6155190	peak_618	34.86029	6153353	FBtr0079203	Muc26B-RA	1384	6151969	+
2R	8950887	8951490	peak_1830	11.09627	8951030	FBtr0307344	CG33199-RB	56	8951086	-
2R	7982212	7983413	peak_1763	14.90051	7982545	FBtr0339123	ACC-RE	1518	7984063	-
3R	14032444	14033035	peak_5038	13.22238	14032617	FBtr0082869	CG3061-RA	246	14032371	+
2L	4249519	4249902	peak_469	21.60102	4249714	FBtr0334789	CR44059-RA	38	4249676	-
3R	30306505	30306983	peak_5898	17.24148	30306651	FBtr0112496	CG34300-RA	11	30306640	-
2R	14413492	14413889	peak_2241	19.07141	14413660	FBtr0087487	Sin1-RA	1835	14411825	+
3R	25491547	25491979	peak_5704	14.3338	25491676	FBtr0084878	CG5112-RA	216	25491460	+
3R	22774747	22775060	peak_5517	13.22238	22774866	FBtr0309572	mir-4953-RM	726	22774140	+
3L	15072194	15072611	peak_3825	11.61518	15072350	FBtr0099993	cp309-RC	199	15072151	-
2L	1715630	1716097	peak_314	16.05663	1715916	FBtr0333545	fritz-RD	65	1715851	-
3L	1890796	1891288	peak_3098	11.61518	1891100	FBtr0072837	Tmhs-RA	1610	1889490	+
2R	10483714	10484484	peak_1959	14.3338	10484288	FBtr0343133	pre-lola-G-RB	967	10485255	-
3L	12128089	12128955	peak_3697	25.57894	12128784	FBtr0089324	Lsp2-RA	609	12129393	+
3R	5194852	5195152	peak_4459	12.14226	5195009	FBtr0334910	cno-RF	3289	5198298	-
3L	6619016	6619449	peak_3336	20.32366	6619284	FBtr0076982	GluRIA-RA	4748	6624032	+
2R	15657783	15658070	peak_2312	11.09627	15657907	FBtr0304315	mir-278-RM	841	15657066	+
2L	12695895	12696434	peak_1021	12.14226	12696008	FBtr0340544	PICK1-RF	172	12695836	+
3R	6126613	6127062	peak_4568	10.08448	6126883	FBtr0309515	CR43486-RA	7	6126876	-
2R	6765402	6765908	peak_1666	15.4749	6765788	FBtr0329851	Epac-RG	3970	6769758	-
2L	16801795	16802091	peak_1236	12.14226	16801898	FBtr0344850	Ugt36Bc-RC	2130	16799768	+
3R	22794009	22794302	peak_5518	17.24148	22794157	FBtr0084313	CG7031-RA	10134	22804291	+
3L	6129636	6129905	peak_3323	10.58593	6129793	FBtr0346812	l(3)mbn-RE	986	6128807	-
2R	24523728	24524086	peak_2902	15.4749	24523901	FBtr0306137	CG4612-RC	2188	24526089	-
2R	12665761	12666141	peak_2104	10.58593	12666001	FBtr0339740	nemy-RK	202	12665799	-
3L	1822809	1823447	peak_3092	14.90051	1823225	FBtr0299561	Cpr62Ba-RC	5717	1828942	-
3R	21580141	21580421	peak_5448	10.08448	21580282	FBtr0290232	InR-RD	9909	21590191	-
3R	31457943	31458524	peak_5935	10.08448	31458127	FBtr0085810	lox-RA	1742	31459869	-

Additional Data table S6 (separate excel file) List of 346 transcription start sites originated from cryptic promoters represented in Fig.4F  
(Questions: Jongmin Kim / devtxn@gmail.com)

- 1 Probe Set ID (Affy ChIP Drosophila 2, annotation version 32)
- 2 Matching Transcript ID (BDGP6.82)
- 3 Transcript coordinate
- 4 Transcript strand
- 5 TSS from cryptic promoter
- 6 Associated TSS for the background set used in motif analysis
- 7 Distance (Annotated promoter - cryptic promoter; negative means upstream)
- 8 Location of cryptic promoters with respect to annotated TSS
- 9 Presence of Aly Peaks in kmg KD
- 10 dMi-2\_KD\_has\_the\_same\_TSS

1	2	3	4	5	6	7	8	9	10
Probe Set ID (A)	Matching Transcript ID (B)	Transcript coordinate	Transcript strand	TSS from cryptic promoter	Associated TSS for the background set used	Distance (A)	Location of cryptic promoters w	Presence of Aly Peaks in k	dMi-2_KD_has_the_same_TSS
1631795_at	FBtr0113008	chr2L:21918-23888	-	chr2L:23727	chr2L:84341	161	Downstream	No	Yes
1624137_at	FBtr0078098	chr2L:320278-321246	-	chr2L:321244	chr2L:357844	2	Within 100bp	No	Yes
1627476_at	FBtr0078058	chr2L:423451-425291	+	chr2L:420794	chr2L:439526	-2657	Upstream	No	Yes
1640627_at	FBtr0078045	chr2L:640020-714968	-	chr2L:664824	chr2L:730546	50144	Downstream	Yes	Yes
1631563_at	FBtr0331651	chr2L:781275-782824	+	chr2L:780525	chr2L:799859	-750	Upstream	Yes	Yes
1635406_at	FBtr0078042	chr2L:786152-790795	-	chr2L:790673	chr2L:1158270	122	Downstream	Yes	Yes
1633826_at	FBtr0077986	chr2L:1132329-1134120	-	chr2L:1133748	chr2L:1170362	372	Downstream	No	Yes
1637772_at	FBtr0077958	chr2L:1143202-1147395	+	chr2L:1142847	chr2L:1158639	-355	Upstream	Yes	Yes
1626437_at	FBtr0299676	chr2L:2032634-2037247	-	chr2L:2036973	chr2L:2129231	274	Downstream	No	Yes
1626238_at	FBtr0301682	chr2L:2674824-2719435	+	chr2L:2704146	chr2L:2752767	29322	Downstream	Yes	Yes
1636572_at	FBtr0300382	chr2L:2816005-2821305	-	chr2L:2825526	chr2L:2857030	-4221	Upstream	Yes	Yes
1638081_at	FBtr0077691	chr2L:2834966-2837831	-	chr2L:2842254	chr2L:2874489	-4423	Upstream	No	Yes
1637486_at	FBtr0077612	chr2L:3173269-3173826	-	chr2L:3174194	chr2L:3365195	-368	Upstream	No	Yes
1628296_at	FBtr0114524	chr2L:3472734-3475338	+	chr2L:3472919	chr2L:3466099	185	Downstream	No	Yes
1626891_at	FBtr0077568	chr2L:3480953-3481916	-	chr2L:3481454	chr2L:3514606	462	Downstream	Yes	Yes
1627797_at	FBtr0273188	chr2L:3745691-3752190	+	chr2L:3739624	chr2L:3713371	-6067	Upstream	Yes	No
1627704_a_at	FBtr0077429	chr2L:4371989-4380725	+	chr2L:4379459	chr2L:4388333	7470	Downstream	No	Yes
1636897_at	FBtr0077434	chr2L:4401104-4403091	+	chr2L:4400721	chr2L:4388289	-383	Upstream	Yes	Yes
1626903_at	FBtr0077376	chr2L:4651402-4652877	+	chr2L:4651376	chr2L:4619592	-26	Within 100bp	No	No
1635488_at	FBtr0304910	chr2L:4852864-4875233	+	chr2L:4872095	chr2L:4850426	19231	Downstream	Yes	Yes
1633900_at	FBtr0078990	chr2L:4942747-4944305	+	chr2L:4942757	chr2L:4945568	10	Within 100bp	No	Yes
1625654_at	FBtr0089577	chr2L:5559341-5563502	+	chr2L:5559243	chr2L:5553898	-98	Within 100bp	No	Yes
1638612_at	FBtr0079163	chr2L:5763459-5766141	-	chr2L:5766734	chr2L:5773595	-593	Upstream	Yes	Yes
1640990_at	FBtr0079241	chr2L:5956511-5956805	-	chr2L:5957314	chr2L:5981007	-509	Upstream	Yes	Yes
1623971_at	FBtr0302123	chr2L:6067838-6068579	-	chr2L:6068705	chr2L:6065938	-126	Upstream	No	Yes
1635232_at	FBtr0079285	chr2L:6263556-6264487	-	chr2L:6264379	chr2L:6127637	108	Downstream	No	Yes
1638633_at	FBtr0079281	chr2L:6352323-6354593	-	chr2L:6354535	chr2L:6385495	58	Within 100bp	No	Yes
1637777_at	FBtr0079256	chr2L:6412703-6414071	+	chr2L:6401722	chr2L:6491037	-10981	Upstream	Yes	No
1638360_at	FBtr0079327	chr2L:6625127-6632404	-	chr2L:6632687	chr2L:6656300	-283	Upstream	Yes	No
1628245_at	FBtr0079341	chr2L:6822316-6839005	+	chr2L:6821255	chr2L:6812619	-1061	Upstream	Yes	Yes
1634054_at	FBtr0079436	chr2L:7377717-7384344	+	chr2L:7379956	chr2L:7405233	2239	Downstream	Yes	Yes
1638594_at	FBtr0079458	chr2L:7455007-7462247	-	chr2L:7460247	chr2L:7496288	2000	Downstream	Yes	Yes
1629637_at	FBtr0079507	chr2L:7719907-7722227	-	chr2L:7724626	chr2L:7744813	-2399	Upstream	No	Yes
1628144_at	FBtr0079605	chr2L:8342763-8344310	+	chr2L:8342544	chr2L:8346619	-219	Upstream	Yes	Yes
1633995_at	FBtr0303924	chr2L:8476290-8477067	+	chr2L:8474977	chr2L:8515075	-1313	Upstream	Yes	Yes
1627637_at	FBtr0303923	chr2L:8482483-8488671	+	chr2L:8482347	chr2L:8517399	-136	Upstream	Yes	Yes
1630532_at	FBtr0079684	chr2L:8519689-8521733	+	chr2L:8520896	chr2L:8529108	1207	Downstream	Yes	Yes
1638462_at	FBtr0079759	chr2L:8967536-8970264	+	chr2L:8967405	chr2L:9012856	-131	Upstream	No	Yes
1625245_at	FBtr0079807	chr2L:9416592-9426344	+	chr2L:9423904	chr2L:9427834	7312	Downstream	Yes	Yes
1633591_at	FBtr0079837	chr2L:9608537-9612535	+	chr2L:9610598	chr2L:9613144	2061	Downstream	No	Yes
1636818_at	FBtr0079969	chr2L:10091581-10092235	-	chr2L:10094433	chr2L:10125746	-2198	Upstream	Yes	No
1627678_at	FBtr0080095	chr2L:10534972-10536315	+	chr2L:10534085	chr2L:10517309	-887	Upstream	No	Yes
1630419_a_at	FBtr0080125	chr2L:10695208-10698024	-	chr2L:10698100	chr2L:10680465	-76	Within 100bp	No	Yes
1639559_at	FBtr0273319	chr2L:10725539-10728560	+	chr2L:10726976	chr2L:10728970	1437	Downstream	Yes	Yes
1637338_at	FBtr0080144	chr2L:10870239-10870656	+	chr2L:10870163	chr2L:10864677	-76	Within 100bp	No	Yes
1634436_at	FBtr0080234	chr2L:11076151-11081397	-	chr2L:11077938	chr2L:11071501	3459	Downstream	Yes	Yes

1629498_at	FBtr0112856	chr2L:11138800-11148875	-	chr2L:11149588	chr2L:11145420	-713	Upstream	Yes	Yes
1637140_at	FBtr0332562	chr2L:11254573-11256577	+	chr2L:11255267	chr2L:11277992	694	Downstream	Yes	Yes
1640345_at	FBtr0080214	chr2L:11284585-11285603	-	chr2L:11286046	chr2L:11338991	-443	Upstream	No	Yes
1624082_at	FBtr0080280	chr2L:11937968-11939202	+	chr2L:11938474	chr2L:11989937	506	Downstream	Yes	Yes
1636420_at	FBtr0080464	chr2L:13347790-13348959	+	chr2L:13347850	chr2L:13286763	60	Within 100bp	No	Yes
1641705_at	FBtr0308949	chr2L:13431936-13432432	+	chr2L:13425960	chr2L:13412530	-5976	Upstream	Yes	No
1623817_at	FBtr0080549	chr2L:13846756-13847800	+	chr2L:13846671	chr2L:13840788	-85	Within 100bp	No	No
1637403_at	FBtr0080550	chr2L:13847942-13849165	+	chr2L:13847961	chr2L:13905656	19	Within 100bp	Yes	Yes
1636007_at	FBtr0080554	chr2L:13909639-13911640	+	chr2L:13909460	chr2L:13912049	-179	Upstream	No	Yes
1635937_at	FBtr0080591	chr2L:14027009-14029368	+	chr2L:14027741	chr2L:14008099	732	Downstream	Yes	Yes
1638688_at	FBtr0080704	chr2L:15109584-15112914	+	chr2L:15112160	chr2L:15129700	2576	Downstream	No	Yes
1637986_at	FBtr0080782	chr2L:15615518-15616333	-	chr2L:15618679	chr2L:15516670	-2346	Upstream	No	Yes
1631444_a_at	FBtr0080781	chr2L:15619663-15623558	-	chr2L:15625007	chr2L:15751066	-1449	Upstream	Yes	Yes
1633366_at	FBtr0303797	chr2L:16235619-16239923	+	chr2L:16237776	chr2L:16211420	2157	Downstream	Yes	No
1628177_at	FBtr0080859	chr2L:16365918-16366977	+	chr2L:16366288	chr2L:16352933	370	Downstream	No	No
1626937_s_at	FBtr0080945	chr2L:16664860-16676666	-	chr2L:16666567	chr2L:16727786	10099	Downstream	Yes	Yes
1628716_at	FBtr0080928	chr2L:16835259-16837218	-	chr2L:16836678	chr2L:16831673	540	Downstream	Yes	Yes
1638983_at	FBtr0273418	chr2L:17964128-17982312	-	chr2L:17977087	chr2L:18011487	5225	Downstream	Yes	No
1631097_at	FBtr0081045	chr2L:18090940-18092238	-	chr2L:18092456	chr2L:18443266	-218	Upstream	Yes	Yes
1625858_at	FBtr0300025	chr2L:18124127-18125435	-	chr2L:18124742	chr2L:18605211	693	Downstream	Yes	No
1637395_at	FBtr0081240	chr2L:19484972-19486396	+	chr2L:19484231	chr2L:19454849	-741	Upstream	Yes	Yes
1641113_at	FBtr0081242	chr2L:19487523-19488531	+	chr2L:19487048	chr2L:19493222	-475	Upstream	No	Yes
1641071_at	FBtr0085988	chr2R:6179719-6180370	+	chr2R:61797160	chr2R:6200756	-559	Upstream	No	Yes
1635384_at	FBtr0086139	chr2R:6716344-6717807	-	chr2R:6717646	chr2R:6696640	161	Downstream	No	Yes
1631123_at	FBtr0088909	chr2R:7554872-7561254	+	chr2R:7556602	chr2R:7535905	1730	Downstream	No	No
1627272_at	FBtr0088881	chr2R:7939252-7939558	-	chr2R:7939694	chr2R:7939978	-136	Upstream	No	Yes
1625307_at	FBtr0088778	chr2R:8087415-8089297	+	chr2R:8088460	chr2R:8089456	1045	Downstream	No	No
1639401_at	FBtr0088759	chr2R:8449660-8451899	-	chr2R:8452028	chr2R:8441140	-129	Upstream	No	Yes
1639262_at	FBtr0088757	chr2R:8469548-8472297	-	chr2R:8472228	chr2R:8453544	69	Within 100bp	No	Yes
1639262_at	FBtr0088752	chr2R:8471964-8473943	+	chr2R:8471196	chr2R:8570477	-768	Upstream	Yes	Yes
1639043_at	FBtr0112560	chr2R:8993541-8994475	-	chr2R:8994715	chr2R:8957047	-240	Upstream	Yes	Yes
1637354_at	FBtr0301191	chr2R:9007570-9013508	-	chr2R:9013671	chr2R:9019024	-163	Upstream	No	Yes
1639331_at	FBtr0303149	chr2R:10362304-10363584	+	chr2R:10362189	chr2R:10418676	-115	Upstream	No	Yes
1630241_at	FBtr0088121	chr2R:11336847-11337796	+	chr2R:11325530	chr2R:113256472	-11317	Upstream	Yes	Yes
1623093_at	FBtr0088039	chr2R:11939483-11966201	+	chr2R:11946961	chr2R:11899493	7478	Downstream	Yes	Yes
1630389_at	FBtr0088019	chr2R:12143349-12144434	-	chr2R:12144588	chr2R:12151018	-154	Upstream	No	Yes
1634139_at	FBtr0087824	chr2R:12566186-12569061	+	chr2R:12567974	chr2R:12567055	1788	Downstream	Yes	Yes
1639956_at	FBtr0110824	chr2R:12625832-12628619	+	chr2R:12626833	chr2R:12632607	1001	Downstream	No	Yes
1624106_at	FBtr0087815	chr2R:12872783-12875013	-	chr2R:12873581	chr2R:12879772	1432	Downstream	No	Yes
1623484_at	FBtr0087785	chr2R:12884288-12899395	+	chr2R:12895856	chr2R:12880248	11568	Downstream	Yes	No
1641643_at	FBtr0330330	chr2R:13146212-13148280	-	chr2R:13148399	chr2R:13198308	-119	Upstream	Yes	Yes
1632419_at	FBtr0299765	chr2R:13435081-13436797	-	chr2R:13438740	chr2R:13393347	-1943	Upstream	Yes	No
1631265_at	FBtr0087628	chr2R:13755343-13758857	+	chr2R:13756818	chr2R:13778110	1475	Downstream	Yes	No
1625228_at	FBtr0087577	chr2R:14198999-14200721	-	chr2R:14200775	chr2R:14216606	-54	Within 100bp	No	Yes
1638775_at	FBtr0087537	chr2R:14247961-14252387	+	chr2R:14248683	chr2R:14361949	722	Downstream	No	Yes
1630462_at	FBtr0087556	chr2R:14374571-14375143	-	chr2R:14375864	chr2R:14360267	-721	Upstream	Yes	Yes
1628411_at	FBtr0302926	chr2R:14458735-14465457	+	chr2R:14464212	chr2R:14503942	5477	Downstream	Yes	No
1631327_at	FBtr0087477	chr2R:14671938-14713621	-	chr2R:14686055	chr2R:14658755	27566	Downstream	Yes	Yes
1637539_a_at	FBtr0087414	chr2R:15011397-15041378	+	chr2R:15034413	chr2R:14981203	23016	Downstream	No	Yes
1634821_at	FBtr0087329	chr2R:15504200-15506000	+	chr2R:15502878	chr2R:15511685	-1322	Upstream	Yes	Yes
1625982_at	FBtr0087209	chr2R:16031959-16045937	+	chr2R:16031938	chr2R:16047580	-21	Within 100bp	No	Yes
1639152_at	FBtr0289985	chr2R:16171241-16176653	-	chr2R:16184110	chr2R:16170844	-7457	Upstream	No	No
1636873_at	FBtr0087138	chr2R:16283434-16287450	+	chr2R:16285234	chr2R:16288962	1800	Downstream	Yes	Yes
1630014_at	FBtr0112650	chr2R:16312242-16316220	+	chr2R:16309704	chr2R:16336739	-2538	Upstream	Yes	Yes
1623711_at	FBtr0087116	chr2R:16653204-16655046	-	chr2R:16654787	chr2R:16667649	259	Downstream	No	Yes
1637807_at	FBtr0087047	chr2R:16898582-16901578	+	chr2R:16898615	chr2R:16955455	33	Within 100bp	No	Yes
1639167_at	FBtr0086865	chr2R:17744661-17745861	+	chr2R:17744189	chr2R:17750303	-472	Upstream	No	Yes
1635494_at	FBtr0302291	chr2R:17887212-17889972	-	chr2R:17891790	chr2R:17956561	-1818	Upstream	Yes	Yes
1626455_s_at	FBtr0344762	chr2R:18047623-18048800	+	chr2R:18048007	chr2R:18042747	384	Downstream	No	Yes
1629530_at	FBtr0086729	chr2R:18382695-18383232	-	chr2R:18383376	chr2R:18385601	-144	Upstream	No	No
1629693_at	FBtr0086613	chr2R:18783300-18794600	+	chr2R:18789098	chr2R:18802380	5798	Downstream	No	No
1637910_at	FBtr0086595	chr2R:19094266-19096174	-	chr2R:19096995	chr2R:19129292	-821	Upstream	Yes	Yes

1637907_at	FBtr0086562	chr2R:19287982-19288645	+	chr2R:19287952	chr2R:19283957	-30	Within 100bp	No	Yes
1634103_at	FBtr0086466	chr2R:19509767-19511471	+	chr2R:19510304	chr2R:19501277	537	Downstream	Yes	Yes
1635194_at	FBtr0086323	chr2R:20238569-20239100	-	chr2R:20239165	chr2R:20212628	-65	Within 100bp	No	Yes
1627128_at	FBtr0086321	chr2R:20245925-20247573	-	chr2R:20247137	chr2R:20257366	436	Downstream	No	Yes
1623759_at	FBtr0086267	chr2R:20539601-20540401	-	chr2R:20540680	chr2R:20536483	-279	Upstream	No	Yes
1635894_at	FBtr0086266	chr2R:20547029-20547681	-	chr2R:20547668	chr2R:20587231	13	Within 100bp	No	Yes
1624000_at	FBtr0086239	chr2R:20773728-20775113	+	chr2R:20774438	chr2R:20644012	710	Downstream	Yes	Yes
1622901_at	FBtr0071560	chr2R:20851266-20852043	-	chr2R:20852289	chr2R:20869313	-246	Upstream	Yes	Yes
1640308_a_at	FBtr0273397	chr2R:20986832-20991171	-	chr2R:20988577	chr2R:20943973	2594	Downstream	No	Yes
1624344_at	FBtr0071675	chr2R:21692680-21697152	-	chr2R:21694041	chr2R:21694240	3111	Downstream	No	Yes
1638473_at	FBtr0071743	chr2R:21799326-21800900	-	chr2R:21801602	chr2R:21796366	-702	Upstream	Yes	Yes
1630740_at	FBtr0071740	chr2R:21834298-21835029	-	chr2R:21835362	chr2R:21882567	-333	Upstream	No	Yes
1624736_a_at	FBtr0071811	chr2R:22293458-22296955	+	chr2R:22294748	chr2R:22311929	1290	Downstream	Yes	No
1628454_at	FBtr0071830	chr2R:22427478-22429584	+	chr2R:22426202	chr2R:22420375	-1276	Upstream	No	No
1638823_at	FBtr0071921	chr2R:22701443-22704398	-	chr2R:22704270	chr2R:22707780	128	Downstream	No	Yes
1626959_at	FBtr0071871	chr2R:22704709-22705568	+	chr2R:22832611	chr2R:22799073	127902	Downstream	No	Yes
1625203_at	FBtr0071894	chr2R:22840834-22842465	+	chr2R:22840737	chr2R:22837348	-97	Within 100bp	No	Yes
1640390_at	FBtr0303785	chr2R:22846117-22847843	+	chr2R:22845947	chr2R:22882680	-170	Upstream	No	Yes
1638319_at	FBtr0071909	chr2R:22855687-22858794	-	chr2R:22857289	chr2R:22886309	1505	Downstream	Yes	No
1625779_at	FBtr0071898	chr2R:22866520-22870706	+	chr2R:22868065	chr2R:22868846	1545	Downstream	No	No
1640407_at	FBtr0071989	chr2R:22985529-22986328	-	chr2R:22986337	chr2R:22937764	-9	Within 100bp	No	Yes
1633708_at	FBtr0071965	chr2R:23082202-23083366	+	chr2R:23082160	chr2R:23067192	-42	Within 100bp	No	Yes
1639287_at	FBtr0071980	chr2R:23085878-23086261	-	chr2R:23086346	chr2R:23100452	-85	Within 100bp	No	Yes
1622900_at	FBtr0071976	chr2R:23103940-23105169	-	chr2R:23104777	chr2R:23152701	392	Downstream	Yes	Yes
1625058_at	FBtr0072011	chr2R:23378532-23380438	+	chr2R:23377908	chr2R:23377044	-624	Upstream	No	Yes
1629932_at	FBtr0072012	chr2R:23381198-23382593	+	chr2R:23381112	chr2R:23432014	-86	Within 100bp	Yes	Yes
1632701_at	FBtr0301509	chr2R:23688157-23690319	+	chr2R:23688111	chr2R:23685549	-46	Within 100bp	No	Yes
1638251_at	FBtr0301162	chr2R:23829995-23837340	+	chr2R:23829853	chr2R:23851060	-142	Upstream	Yes	Yes
1623006_at	FBtr0072362	chr2R:24404594-24410547	-	chr2R:24412377	chr2R:24498040	-1830	Upstream	No	Yes
1641220_at	FBtr0343482	chr2R:24415570-24418672	-	chr2R:24419653	chr2R:24531580	-981	Upstream	No	Yes
1625498_at	FBtr0072353	chr2R:24493255-24493948	-	chr2R:24494163	chr2R:244961093	-215	Upstream	No	Yes
1625039_at	FBtr0302288	chr2R:24515724-24521147	+	chr2R:24520388	chr2R:24870087	4664	Downstream	Yes	Yes
1630237_a_at	FBtr0072378	chr2R:24814829-24834602	+	chr2R:24813950	chr2R:24875842	-879	Upstream	Yes	No
1635524_at	FBtr0072413	chr2R:24928746-24937452	-	chr2R:24932289	chr2R:24881540	5163	Downstream	Yes	No
1627096_s_at	FBtr0343605	chr2R:25085779-25139541	-	chr2R:25139829	chr2R:24983199	-288	Upstream	Yes	Yes
1623396_at	FBtr0072476	chr3L:180293-182535	+	chr3L:180236	chr3L:176224	-57	Within 100bp	No	Yes
1630356_at	FBtr0333961	chr3L:277713-282719	+	chr3L:278223	chr3L:257926	510	Downstream	Yes	Yes
1625238_at	FBtr0072744	chr3L:1565391-1567802	+	chr3L:1565292	chr3L:1569163	-99	Within 100bp	No	No
1640809_at	FBtr0072824	chr3L:1610694-1616602	-	chr3L:1615415	chr3L:1645183	1187	Downstream	Yes	No
1640524_at	FBtr0072821	chr3L:1623177-1629298	-	chr3L:1628365	chr3L:1731098	933	Downstream	No	Yes
1636135_at	FBtr0072802	chr3L:1701394-1701883	-	chr3L:1701975	chr3L:1775140	-92	Within 100bp	No	Yes
1638896_at	FBtr0072869	chr3L:1840277-1842080	-	chr3L:1841227	chr3L:1775622	853	Downstream	Yes	Yes
1623022_at	FBtr0072913	chr3L:2173060-2174332	-	chr3L:2173929	chr3L:1857175	403	Downstream	Yes	No
1638174_at	FBtr0072938	chr3L:2648049-2650207	+	chr3L:2648432	chr3L:2257417	383	Downstream	Yes	Yes
1626183_at	FBtr0309119	chr3L:2788121-2800130	-	chr3L:2796258	chr3L:2782268	3872	Downstream	Yes	No
1639636_at	FBtr0073124	chr3L:3090984-3106956	-	chr3L:3106974	chr3L:2892110	-18	Within 100bp	No	Yes
1625336_s_at	FBtr0304829	chr3L:3483910-3484620	-	chr3L:3484846	chr3L:3461289	-226	Upstream	No	Yes
1634928_at	FBtr0073141	chr3L:3510972-3512677	-	chr3L:3512716	chr3L:3515722	-39	Within 100bp	No	Yes
1635410_at	FBtr0073172	chr3L:3938694-3940084	-	chr3L:3940119	chr3L:3937965	-35	Within 100bp	No	Yes
1630860_at	FBtr0073165	chr3L:3983915-3988589	+	chr3L:3984099	chr3L:3962937	184	Downstream	No	Yes
1625523_at	FBtr0073192	chr3L:4019093-4021179	+	chr3L:4018980	chr3L:4021420	-113	Upstream	No	Yes
1627818_s_at	FBtr0073275	chr3L:4074072-4088744	-	chr3L:4088418	chr3L:4103572	326	Downstream	No	Yes
1639190_at	FBtr0332659	chr3L:4161653-4167461	-	chr3L:4166856	chr3L:4136026	605	Downstream	No	No
1636393_at	FBtr0073255	chr3L:4200819-4204338	-	chr3L:4203342	chr3L:4186858	996	Downstream	Yes	No
1629394_at	FBtr0073253	chr3L:4211000-4211553	-	chr3L:4211600	chr3L:4242726	-47	Within 100bp	Yes	Yes
1628265_a_at	FBtr0304988	chr3L:4574980-4590784	+	chr3L:4588050	chr3L:4746659	13070	Downstream	Yes	Yes
1630621_at	FBtr0077163	chr3L:5131549-5132129	+	chr3L:5131223	chr3L:5141642	-326	Upstream	Yes	Yes
1633636_at	FBtr0077153	chr3L:5378785-5382821	-	chr3L:5380359	chr3L:5535721	2462	Downstream	Yes	No
1631100_at	FBtr0077149	chr3L:5512420-5529341	-	chr3L:5516942	chr3L:5577332	12399	Downstream	Yes	Yes
1637660_at	FBtr0077086	chr3L:5595545-5597352	+	chr3L:5596224	chr3L:5608305	679	Downstream	Yes	Yes
1631236_at	FBtr0077090	chr3L:5654682-5657384	+	chr3L:5652328	chr3L:5752957	-2354	Upstream	Yes	No
1627937_at	FBtr0305274	chr3L:5903061-5904001	-	chr3L:5903746	chr3L:5902467	255	Downstream	Yes	Yes

1629860_at	FBtr0077039	chr3L:6037110-6038070	+	chr3L:6037198	chr3L:6055129	88	Within 100bp	Yes	Yes
1636460_at	FBtr0077067	chr3L:6053583-6054426	-	chr3L:6054576	chr3L:6075536	-150	Upstream	Yes	Yes
1629726_at	FBtr0077066	chr3L:6061376-6062906	-	chr3L:60663105	chr3L:6173871	-199	Upstream	Yes	No
1639720_at	FBtr0299610	chr3L:6069468-6071371	+	chr3L:6068108	chr3L:6193177	-1360	Upstream	Yes	No
1637998_at	FBtr0076996	chr3L:6160813-6161589	+	chr3L:6160811	chr3L:6262678	-2	Within 100bp	Yes	Yes
1632356_at	FBtr0300026	chr3L:6666637-6667927	-	chr3L:6667106	chr3L:6756467	821	Downstream	Yes	No
1636659_at	FBtr0076909	chr3L:7093208-7093843	+	chr3L:7093256	chr3L:7131820	48	Within 100bp	No	Yes
1626194_at	FBtr0100141	chr3L:7134517-7142735	+	chr3L:7134480	chr3L:7234475	-37	Within 100bp	No	Yes
1634540_at	FBtr0332140	chr3L:7491863-7493484	+	chr3L:7490247	chr3L:7465470	-1616	Upstream	No	Yes
1626859_at	FBtr0076828	chr3L:7540268-7541168	-	chr3L:7541216	chr3L:7641637	-48	Within 100bp	No	Yes
1624389_at	FBtr0290277	chr3L:7564334-7569494	+	chr3L:7562606	chr3L:7654768	-1728	Upstream	No	Yes
1633313_at	FBtr0336853	chr3L:7655388-7697661	-	chr3L:7696412	chr3L:7719350	1249	Downstream	Yes	No
1633123_at	FBtr0076716	chr3L:8290285-8295322	-	chr3L:8292974	chr3L:8289861	2348	Downstream	Yes	No
1631774_at	FBtr0076601	chr3L:8337586-8338148	+	chr3L:8337360	chr3L:8346389	-226	Upstream	No	Yes
1635732_at	FBtr0305700	chr3L:8473006-8481062	-	chr3L:8480969	chr3L:8509732	93	Within 100bp	Yes	No
1629380_at	FBtr0076574	chr3L:8731990-8732541	+	chr3L:8730842	chr3L:8956755	-1148	Upstream	Yes	Yes
1629935_at	FBtr0076587	chr3L:8805827-8807198	-	chr3L:8807315	chr3L:9364343	-117	Upstream	Yes	Yes
1624259_at	FBtr0076440	chr3L:9354335-9355338	+	chr3L:9354283	chr3L:9429831	-52	Within 100bp	No	Yes
1630049_at	FBtr0076452	chr3L:9375428-9376269	+	chr3L:9375117	chr3L:9487783	-311	Upstream	No	Yes
1639254_at	FBtr0114525	chr3L:9488137-9489297	-	chr3L:9489200	chr3L:9505958	97	Within 100bp	Yes	Yes
1639627_at	FBtr0091691	chr3L:9512007-9513959	-	chr3L:9513963	chr3L:9610494	-4	Within 100bp	No	Yes
1633009_a_at	FBtr0303833	chr3L:10095746-10100881	-	chr3L:10097234	chr3L:10151808	3647	Downstream	No	Yes
1638525_at	FBtr0076300	chr3L:10243319-10244706	-	chr3L:10244227	chr3L:10215636	479	Downstream	Yes	No
1640580_at	FBtr0345037	chr3L:11233000-11235938	-	chr3L:11235126	chr3L:11214516	812	Downstream	No	Yes
1638012_at	FBtr0076146	chr3L:11584116-11587768	-	chr3L:11592891	chr3L:11584073	-5123	Upstream	Yes	No
1626309_at	FBtr0076119	chr3L:11767300-11772081	-	chr3L:11768801	chr3L:11793511	3280	Downstream	No	Yes
1634498_at	FBtr0076026	chr3L:12125486-12127394	-	chr3L:12127327	chr3L:12136727	67	Within 100bp	Yes	Yes
1625864_at	FBtr0075953	chr3L:12329235-12335906	+	chr3L:12334736	chr3L:12336636	5501	Downstream	Yes	No
1629066_at	FBtr0330069	chr3L:12339111-12351536	-	chr3L:12342338	chr3L:12414834	9198	Downstream	Yes	No
1623932_at	FBtr0075935	chr3L:12853655-12856904	+	chr3L:12853598	chr3L:12850197	-57	Within 100bp	Yes	Yes
1640837_a_at	FBtr0075842	chr3L:13382766-13384001	+	chr3L:13381703	chr3L:13412833	-1063	Upstream	Yes	Yes
1640192_at	FBtr0089524	chr3L:14186367-14189422	-	chr3L:14189245	chr3L:14246003	177	Downstream	Yes	Yes
1625059_at	FBtr0075722	chr3L:14560133-14560764	-	chr3L:14560790	chr3L:14632072	-26	Within 100bp	No	Yes
1631611_at	FBtr0100028	chr3L:15528356-15529230	-	chr3L:15529307	chr3L:15554085	-77	Within 100bp	Yes	Yes
1624428_at	FBtr0075574	chr3L:15659706-15660212	+	chr3L:15659527	chr3L:15816401	-179	Upstream	Yes	Yes
1641631_at	FBtr0075469	chr3L:16301469-16302028	+	chr3L:16296280	chr3L:16384049	-5189	Upstream	Yes	Yes
1641146_at	FBtr0075391	chr3L:16497653-16500467	+	chr3L:16497653	chr3L:16581543	0	Within 100bp	No	Yes
1627607_at	FBtr0075392	chr3L:16556842-16557958	+	chr3L:16556772	chr3L:16938956	-70	Within 100bp	Yes	Yes
1630210_at	FBtr0113177	chr3L:16941691-16945753	+	chr3L:16944271	chr3L:17016168	2580	Downstream	Yes	Yes
1625216_at	FBtr0075214	chr3L:17322840-17324493	+	chr3L:17322670	chr3L:17425186	-170	Upstream	Yes	Yes
1635742_s_at	FBtr0075239	chr3L:17367750-17379529	-	chr3L:17374767	chr3L:18301220	4762	Downstream	Yes	No
1629263_at	FBtr0075134	chr3L:18154892-18162515	-	chr3L:18161753	chr3L:18950593	762	Downstream	Yes	No
1629846_at	FBtr0075046	chr3L:18986058-18988158	-	chr3L:18988397	chr3L:19000589	-239	Upstream	Yes	Yes
1641688_at	FBtr0075040	chr3L:19001081-19003293	-	chr3L:19002043	chr3L:19063155	1250	Downstream	Yes	No
1624519_at	FBtr0074949	chr3L:19687627-19689992	+	chr3L:19688222	chr3L:19687330	595	Downstream	No	Yes
1624772_at	FBtr0074870	chr3L:20098080-20103807	-	chr3L:20101652	chr3L:20129181	2155	Downstream	Yes	Yes
1633365_at	FBtr0074869	chr3L:20108783-20111437	-	chr3L:20111661	chr3L:20242486	-224	Upstream	Yes	Yes
1623981_at	FBtr0074856	chr3L:20210434-20212118	-	chr3L:20212565	chr3L:20296945	-447	Upstream	No	Yes
1631668_at	FBtr0310467	chr3L:20224612-20225293	+	chr3L:20224343	chr3L:21205202	-269	Upstream	No	Yes
1625852_at	FBtr0074848	chr3L:20268858-20295131	-	chr3L:20276513	chr3L:21213692	18618	Downstream	Yes	No
1626529_at	FBtr0299857	chr3L:21184661-21186675	-	chr3L:21186036	chr3L:21357623	639	Downstream	Yes	No
1624829_at	FBtr0301013	chr3L:21428058-21432994	+	chr3L:21427817	chr3L:21433403	-241	Upstream	Yes	Yes
1623243_at	FBtr0078396	chr3L:21442222-21444814	-	chr3L:21444839	chr3L:21441344	-25	Within 100bp	No	Yes
1627951_at	FBtr0305327	chr3L:21534578-21536229	+	chr3L:21533244	chr3L:21533729	-1334	Upstream	Yes	Yes
1640593_at	FBtr0078457	chr3L:21729669-21730449	-	chr3L:21730280	chr3L:21680014	169	Downstream	Yes	No
1633562_at	FBtr0078456	chr3L:21730723-21731547	-	chr3L:21731871	chr3L:21823452	-324	Upstream	Yes	Yes
1632242_a_at	FBtr0333892	chr3L:21746503-21761199	-	chr3L:21774656	chr3L:21832226	-13457	Upstream	Yes	Yes
1637434_at	FBtr0078444	chr3L:21841906-21842355	-	chr3L:21842374	chr3L:21841340	-19	Within 100bp	No	Yes
1637669_at	FBtr0078471	chr3L:21934962-21938517	+	chr3L:21934779	chr3L:22071840	-183	Upstream	Yes	Yes
1624921_at	FBtr0331779	chr3L:22582913-22583653	-	chr3L:22584557	chr3L:22717577	-904	Upstream	Yes	Yes
1630625_s_at	FBtr0303714	chr3L:22650890-22655489	-	chr3L:22651948	chr3L:22724197	3541	Downstream	Yes	No
1625894_at	FBtr0078522	chr3L:22712156-22713663	+	chr3L:22711741	chr3L:22868257	-415	Upstream	Yes	No

1628611_at	FBtr0078536	chr3L:22734429-22738417	-	chr3L:22741422	chr3L:22872212	-3005	Upstream	No	Yes
1636249_at	FBtr0078789	chr3R:5376753-5377975	+	chr3R:5376753	chr3R:5368305	0	Within 100bp	No	Yes
1629522_at	FBtr0078594	chr3R:6215835-6217953	+	chr3R:6215551	chr3R:6057513	-284	Upstream	Yes	Yes
1623290_at	FBtr0078615	chr3R:6218317-6221781	-	chr3R:6222136	chr3R:6341938	-355	Upstream	Yes	No
1628121_at	FBtr0078606	chr3R:6299131-6300750	+	chr3R:6299939	chr3R:6343993	808	Downstream	No	No
1633077_at	FBtr0081708	chr3R:6340096-6341430	+	chr3R:6339713	chr3R:6368928	-383	Upstream	No	Yes
1631233_at	FBtr0081713	chr3R:6349242-6350512	+	chr3R:6349242	chr3R:6380226	0	Within 100bp	No	Yes
1624703_at	FBtr0089277	chr3R:6708207-6713026	-	chr3R:6719339	chr3R:6406833	-6313	Upstream	Yes	No
1637062_at	FBtr0081777	chr3R:7783941-7786119	-	chr3R:7786053	chr3R:7750050	66	Within 100bp	Yes	Yes
1623390_at	FBtr0081943	chr3R:8754108-8755669	-	chr3R:8766781	chr3R:8747802	-11112	Upstream	Yes	No
1629491_at	FBtr0081942	chr3R:8771246-8772686	-	chr3R:8772749	chr3R:8769334	-63	Within 100bp	Yes	Yes
1637076_at	FBtr0300335	chr3R:9294932-9328505	-	chr3R:9321760	chr3R:9324722	6745	Downstream	Yes	No
1623732_at	FBtr0273369	chr3R:10053397-10054283	+	chr3R:10053751	chr3R:10048805	354	Downstream	Yes	Yes
1633050_at	FBtr0082202	chr3R:10055490-10056079	-	chr3R:10057602	chr3R:10407289	-1523	Upstream	Yes	Yes
1638253_at	FBtr0309853	chr3R:10074013-10075366	-	chr3R:10074665	chr3R:11225477	701	Downstream	No	No
1627350_at	FBtr0082222	chr3R:10222757-10223673	+	chr3R:10222446	chr3R:11230566	-311	Upstream	No	Yes
1641242_at	FBtr0082378	chr3R:11151968-11153796	-	chr3R:11153852	chr3R:11409876	-56	Within 100bp	Yes	Yes
1628449_at	FBtr0082337	chr3R:11154654-11156513	+	chr3R:11152882	chr3R:11235003	-1772	Upstream	Yes	Yes
1634029_at	FBtr0082373	chr3R:11173574-11175395	-	chr3R:11179200	chr3R:11422053	-3805	Upstream	Yes	No
1630418_s_at	FBtr0082399	chr3R:11437546-11451150	-	chr3R:11445625	chr3R:11435717	5525	Downstream	Yes	No
1638057_at	FBtr0113346	chr3R:11690444-11691799	-	chr3R:11691920	chr3R:11567033	-121	Upstream	No	Yes
1627288_a_at	FBtr0082548	chr3R:12162888-12166186	-	chr3R:12165672	chr3R:11619879	514	Downstream	Yes	No
1628094_at	FBtr0082576	chr3R:12383360-12385626	+	chr3R:12383180	chr3R:11678067	-180	Upstream	No	Yes
1633994_at	FBtr0112656	chr3R:12401794-12402880	+	chr3R:12400109	chr3R:12406516	-1685	Upstream	Yes	No
1636627_at	FBtr0301944	chr3R:12512812-12515612	-	chr3R:12517173	chr3R:12439144	-1561	Upstream	Yes	Yes
1631781_at	FBtr0082644	chr3R:12633358-12634652	+	chr3R:12633656	chr3R:12691448	298	Downstream	Yes	Yes
1638261_at	FBtr0082738	chr3R:13290715-13291846	+	chr3R:13290857	chr3R:13388724	142	Downstream	Yes	Yes
1633720_s_at	FBtr0082773	chr3R:13329069-13334163	-	chr3R:13333031	chr3R:13434947	1132	Downstream	No	Yes
1641712_at	FBtr0082745	chr3R:13340169-13344786	+	chr3R:13342162	chr3R:13425960	1993	Downstream	Yes	Yes
1629639_at	FBtr0082789	chr3R:13592275-13592614	-	chr3R:13594151	chr3R:13646934	-1537	Upstream	Yes	Yes
1625743_at	FBtr0082820	chr3R:13700585-13703122	+	chr3R:13700443	chr3R:13683945	-142	Upstream	No	Yes
1636603_a_at	FBtr0082827	chr3R:13771597-13779315	+	chr3R:13776814	chr3R:13780955	5217	Downstream	Yes	No
1628289_at	FBtr0082863	chr3R:13901858-13904620	+	chr3R:13901773	chr3R:13943449	-85	Within 100bp	No	Yes
1635898_at	FBtr0082992	chr3R:14798989-14801165	+	chr3R:14796281	chr3R:14898355	-2708	Upstream	Yes	Yes
1631846_at	FBtr0082993	chr3R:14801804-14803986	+	chr3R:14801550	chr3R:14901601	-254	Upstream	Yes	Yes
1641527_at	FBtr0083180	chr3R:15825748-15830322	+	chr3R:15829051	chr3R:15180298	3303	Downstream	No	No
1631882_at	FBtr0083222	chr3R:16043616-16044717	+	chr3R:16042792	chr3R:16049656	-824	Upstream	Yes	Yes
1628585_at	FBtr0110963	chr3R:16473369-16475373	+	chr3R:16473894	chr3R:16647583	525	Downstream	Yes	No
1629863_at	FBtr0301702	chr3R:16484698-16495419	-	chr3R:164042792	chr3R:16469671	452627	Downstream	Yes	Yes
1624507_at	FBtr0083390	chr3R:17031816-17033247	+	chr3R:17032142	chr3R:17040166	326	Downstream	Yes	Yes
1637707_at	FBtr0305130	chr3R:17033960-17036018	-	chr3R:17036253	chr3R:17040633	-235	Upstream	No	Yes
1625431_at	FBtr0083564	chr3R:18236193-18239604	+	chr3R:18238091	chr3R:18226385	1898	Downstream	No	Yes
1630831_at	FBtr0083694	chr3R:18616753-18617483	-	chr3R:18617590	chr3R:18641460	-107	Upstream	Yes	Yes
1624129_s_at	FBtr0083668	chr3R:18680605-18685307	+	chr3R:18680974	chr3R:18677786	369	Downstream	No	Yes
1638335_at	FBtr0083756	chr3R:19390271-19392132	+	chr3R:19390923	chr3R:19403157	652	Downstream	Yes	Yes
1626243_at	FBtr0113247	chr3R:19409322-19410738	+	chr3R:19409478	chr3R:19600613	156	Downstream	No	Yes
1625463_at	FBtr0083784	chr3R:19659747-19663679	+	chr3R:19662398	chr3R:19644978	2651	Downstream	No	Yes
1641225_at	FBtr0301213	chr3R:19667739-19670647	+	chr3R:19664365	chr3R:19847297	-3374	Upstream	Yes	Yes
1641734_at	FBtr0083857	chr3R:19886245-19888206	-	chr3R:19887219	chr3R:19879700	987	Downstream	No	Yes
1638038_at	FBtr0083894	chr3R:20406669-20407823	-	chr3R:20407860	chr3R:20501982	-37	Within 100bp	Yes	Yes
1622974_at	FBtr0083935	chr3R:20676221-20677352	-	chr3R:20677353	chr3R:20735617	-1	Within 100bp	No	Yes
1635505_a_at	FBtr0336970	chr3R:20851707-20854680	-	chr3R:20853945	chr3R:20832770	735	Downstream	Yes	No
1628850_at	FBtr0084037	chr3R:21076913-21080530	-	chr3R:21080462	chr3R:21084482	68	Within 100bp	Yes	Yes
1627368_at	FBtr0084113	chr3R:21665577-21666526	+	chr3R:21665393	chr3R:21822679	-184	Upstream	No	Yes
1632461_at	FBtr0084127	chr3R:21749852-21753237	+	chr3R:21751723	chr3R:22362358	1871	Downstream	Yes	No
1624479_at	FBtr0084132	chr3R:21776137-21777213	+	chr3R:21775884	chr3R:22375896	-253	Upstream	Yes	No
1633952_at	FBtr0084203	chr3R:22329316-22330552	+	chr3R:22329273	chr3R:22381326	-43	Within 100bp	No	Yes
1640956_at	FBtr0084319	chr3R:22758845-22761071	-	chr3R:22761293	chr3R:22483967	-222	Upstream	No	Yes
1630915_at	FBtr0304881	chr3R:22768241-22768713	-	chr3R:22768621	chr3R:22941452	92	Within 100bp	No	Yes
1630504_at	FBtr0337028	chr3R:23072621-23112715	-	chr3R:23076335	chr3R:22530562	36380	Downstream	Yes	No
1630012_at	FBtr0290293	chr3R:23481966-23483541	+	chr3R:23482746	chr3R:22583236	780	Downstream	No	Yes
1641637_at	FBtr0273205	chr3R:23487734-23489180	+	chr3R:23487469	chr3R:23677326	-265	Upstream	No	Yes

1626764_at	FBtr0084486	chr3R:23587206-23589815	-	chr3R:23589403	chr3R:23678880	412	Downstream	No	No
1623829_at	FBtr0113405	chr3R:23704621-23705517	+	chr3R:23704772	chr3R:23760573	151	Downstream	No	Yes
1627734_at	FBtr0084472	chr3R:23712811-23718357	-	chr3R:23717660	chr3R:23763238	697	Downstream	No	Yes
1629551_s_at	FBtr0084513	chr3R:23943627-23948419	-	chr3R:23945500	chr3R:23943118	2919	Downstream	Yes	Yes
1624671_at	FBtr0084624	chr3R:24370768-24372736	-	chr3R:24372918	chr3R:24318379	-182	Upstream	No	Yes
1629761_at	FBtr0084623	chr3R:24373490-24374910	-	chr3R:24374922	chr3R:24582885	-12	Within 100bp	No	Yes
1627345_at	FBtr0113461	chr3R:24376946-24377705	+	chr3R:24373957	chr3R:24527999	-2989	Upstream	Yes	Yes
1641585_at	FBtr0334918	chr3R:24389751-24390335	-	chr3R:24390998	chr3R:24719349	-663	Upstream	No	Yes
1640771_a_at	FBtr0084686	chr3R:24712783-24717553	+	chr3R:24714780	chr3R:24787431	1997	Downstream	Yes	Yes
1624434_at	FBtr0084691	chr3R:24749733-24753512	+	chr3R:24750522	chr3R:24814037	789	Downstream	Yes	No
1632752_at	FBtr0084744	chr3R:24760529-24765058	-	chr3R:24762835	chr3R:24829942	2223	Downstream	Yes	No
1633189_at	FBtr0084751	chr3R:24947631-24949539	+	chr3R:24948188	chr3R:24850623	557	Downstream	Yes	Yes
1635636_at	FBtr0084810	chr3R:25240179-25241453	+	chr3R:25239426	chr3R:24851559	-753	Upstream	Yes	Yes
1634591_at	FBtr0084821	chr3R:25273847-25275166	+	chr3R:25273474	chr3R:24876619	-373	Upstream	No	No
1629996_at	FBtr0084846	chr3R:25381062-25382800	-	chr3R:25382725	chr3R:25344831	75	Within 100bp	No	No
1634240_at	FBtr0084879	chr3R:25505212-25505918	+	chr3R:25505488	chr3R:25506233	-624	Upstream	No	No
1641176_at	FBtr0084899	chr3R:25665808-25677216	+	chr3R:25674739	chr3R:25661259	8931	Downstream	No	No
1629601_at	FBtr0084956	chr3R:26010962-26011379	+	chr3R:26010716	chr3R:25982953	-246	Upstream	No	No
1636493_at	FBtr0085009	chr3R:26441326-26448994	+	chr3R:26438609	chr3R:26725225	-2717	Upstream	Yes	Yes
1630473_at	FBtr0085029	chr3R:26619122-26620231	+	chr3R:26618824	chr3R:26863133	-298	Upstream	No	Yes
1629531_at	FBtr0114538	chr3R:26629997-26630572	+	chr3R:26630233	chr3R:26912888	236	Downstream	Yes	Yes
1629011_at	FBtr0085031	chr3R:26631872-26632958	+	chr3R:26631645	chr3R:26964798	-227	Upstream	No	Yes
1632215_at	FBtr0085078	chr3R:27003235-27005469	-	chr3R:27004950	chr3R:270070048	519	Downstream	Yes	Yes
1623027_s_at	FBtr0085150	chr3R:27022068-27023212	-	chr3R:27023245	chr3R:27112247	-33	Within 100bp	No	Yes
1630171_at	FBtr0085136	chr3R:27083131-27086619	-	chr3R:27084478	chr3R:27124679	2141	Downstream	Yes	Yes
1629727_at	FBtr0085103	chr3R:27093178-27094136	+	chr3R:27093116	chr3R:27151087	-62	Within 100bp	No	Yes
1640983_at	FBtr0085114	chr3R:27161151-27162920	+	chr3R:27161293	chr3R:27157948	142	Downstream	No	No
1633947_at	FBtr0085183	chr3R:27478676-27480468	+	chr3R:27479236	chr3R:27464163	560	Downstream	Yes	Yes
1641248_at	FBtr0085289	chr3R:28418203-28473209	+	chr3R:28472142	chr3R:28340345	53939	Downstream	Yes	Yes
1630305_at	FBtr0085321	chr3R:28581815-28585083	-	chr3R:28585841	chr3R:28599265	-758	Upstream	No	No
1637894_at	FBtr0113303	chr3R:29173268-29194994	-	chr3R:29181476	chr3R:29148265	13518	Downstream	Yes	Yes
1641001_at	FBtr0085466	chr3R:29666813-29668877	-	chr3R:29668299	chr3R:29619087	578	Downstream	No	Yes
1622920_at	FBtr0085513	chr3R:29914519-29920289	-	chr3R:29920048	chr3R:29935895	241	Downstream	No	No
1624092_at	FBtr0085511	chr3R:29925224-29926185	-	chr3R:29925807	chr3R:29993392	378	Downstream	Yes	Yes
1636979_at	FBtr0085605	chr3R:30006035-30008232	-	chr3R:30007821	chr3R:29995334	411	Downstream	No	Yes
1623721_at	FBtr0309181	chr3R:30227709-30237720	-	chr3R:30230076	chr3R:30202989	7644	Downstream	Yes	Yes
1631977_at	FBtr0085686	chr3R:30503718-30505649	-	chr3R:30507795	chr3R:30649113	-2146	Upstream	Yes	Yes
1629729_at	FBtr0085665	chr3R:30597003-30599296	+	chr3R:30597244	chr3R:30706138	241	Downstream	No	Yes
1629926_at	FBtr0085698	chr3R:30690643-30692768	+	chr3R:30691396	chr3R:31123476	753	Downstream	No	No
1632566_at	FBtr0085739	chr3R:31106365-31109188	-	chr3R:31109183	chr3R:31130677	5	Within 100bp	Yes	Yes
1639776_s_at	FBtr0300875	chr3R:31543031-31566167	+	chr3R:31557675	chr3R:31213432	14644	Downstream	No	No
1641587_at	FBtr0070254	chrX:1469817-1470560	+	chrX:753724	chrX:765121	-716093	Upstream	No	Yes
1640027_a_at	FBtr0307180	chrX:3569974-3571800	+	chrX:3571048	chrX:3719594	1074	Downstream	No	Yes
1622987_at	FBtr0071088	chrX:7884659-7886976	+	chrX:7884703	chrX:7901329	44	Within 100bp	No	Yes
1628078_at	FBtr0301736	chrX:8084082-8085516	-	chrX:8085117	chrX:8102100	399	Downstream	No	No
1626103_at	FBtr0071204	chrX:8481913-8483060	+	chrX:8481771	chrX:8560188	-142	Upstream	No	Yes
1641605_at	FBtr0071235	chrX:8525516-8529525	-	chrX:8529498	chrX:9078479	27	Within 100bp	No	Yes
1638490_at	FBtr0071357	chrX:9055046-9058066	-	chrX:9056404	chrX:9082944	1662	Downstream	No	No
1630468_at	FBtr0071397	chrX:9874673-9875813	-	chrX:9875885	chrX:9881939	-72	Within 100bp	No	Yes
1632685_at	FBtr0073894	chrX:14184540-14185736	+	chrX:14184569	chrX:14226245	29	Within 100bp	No	Yes
1636328_at	FBtr0290087	chrX:16265379-16266464	-	chrX:16265469	chrX:16276252	2081895	Downstream	No	Yes
1630727_at	FBtr0074389	chrX:17203113-17203824	+	chrX:17452542	chrX:17247000	249429	Downstream	No	Yes

Additional Data table S7 (separate excel file) List of genomic coordinates for Aly binding sites (peaks) based on different categories specified in Fig. 6B and fig. S14 (Case #1 and Case #2)  
 (Questions: Jongmin Kim / devtxn@gmail.com)

- 1 chr
- 2 start
- 3 end
- 4 Peak\_identifier
- 5 q-value\_for\_peak
- 6 peak\_summit\_coordinates

\* Case1: 248 Aly peaks in WT that overlap with Kmg peaks in WT

1	2	3	4	5	6
chr	start	end	Peak_iden	q-value_for	peak_summit
Y	3264980	3265590	../05_Mac	119.1378	3265279
2L	2609622	2610325	../05_Mac	115.1746	2610035
3R	11553712	11554335	../05_Mac	114.7329	11554032
3R	28292336	28292985	../05_Mac	112.9494	28292742
2L	6686444	6687079	../05_Mac	108.2891	6686797
2L	2771628	2772148	../05_Mac	108.0936	2771919
2L	5923264	5923940	../05_Mac	107.4054	5923740
3L	22328256	22329990	../05_Mac	107.1429	22329747
3R	28291021	28291721	../05_Mac	100.2809	28291280
3R	10224454	10225162	../05_Mac	98.94647	10224754
3L	10048059	10048548	../05_Mac	93.07516	10048287
3R	26452380	26453305	../05_Mac	91.51922	26452709
2L	4249499	4249979	../05_Mac	90.75327	4249732
2L	14548870	14549422	../05_Mac	85.97419	14549145
2R	9017571	9018068	../05_Mac	84.27824	9017822
2L	16006053	16006656	../05_Mac	83.21551	16006381
3L	7364632	7365117	../05_Mac	82.94194	7364853
3R	5369980	5370573	../05_Mac	82.48587	5370300
2L	19370149	19370687	../05_Mac	82.15482	19370428
2L	17626082	17626631	../05_Mac	79.36386	17626384
2L	3519490	3520417	../05_Mac	78.78293	3519723
2R	8369490	8370275	../05_Mac	78.64422	8369863
2L	6802572	6803144	../05_Mac	77.94867	6802889
2R	8367346	8368266	../05_Mac	77.94867	8368063
2R	24475134	24475659	../05_Mac	77.25293	24475406
3L	843788	844436	../05_Mac	76.12984	844204
2L	10056689	10057817	../05_Mac	73.51465	10056971
2R	8262882	8263517	../05_Mac	72.44023	8263300
3R	14641952	14642832	../05_Mac	71.24778	14642597
3R	30989827	30990293	../05_Mac	69.78119	30990031
3R	22774562	22775017	../05_Mac	69.73753	22774814
2L	1344234	1344630	../05_Mac	69.06699	1344432
3L	2502431	2503101	../05_Mac	68.28205	2502890
2R	14413468	14413889	../05_Mac	68.08724	14413678
3L	1253558	1254167	../05_Mac	67.83652	1253809
3L	21728625	21729092	../05_Mac	66.98348	21728852

\* 1655 aly peaks in WT that do not overlap with Kmg peaks in WT

1	2	3	4	5	6
chr	start	end	Peak_iden	q-value_for	peak_summit
3R	18350942	18351543	../05_Mac	119.8077	18351214
3R	11276910	11277533	../05_Mac	119.7043	11277237
3R	5885885	5886486	../05_Mac	113.6884	5886176
3R	4530907	4531599	../05_Mac	112.0373	4531067
2L	17905601	17906120	../05_Mac	108.4409	17905830
3R	27330321	27331205	../05_Mac	108.4409	27330899
2R	5745807	5746353	../05_Mac	107.6911	5746075
3R	18897820	18898338	../05_Mac	107.6911	18898093
2R	16236514	16236997	../05_Mac	105.5593	16236753
3R	18112396	18113124	../05_Mac	105.4733	18112639
2R	23183565	23184580	../05_Mac	105.0138	23183889
2R	14408019	14408652	../05_Mac	104.9349	14408317
3R	10175960	10176482	../05_Mac	104.6619	10176208
2R	1750304	1750717	../05_Mac	103.246	1750512
3L	15182670	15183130	../05_Mac	102.5121	15182874
2L	11495444	11495880	../05_Mac	101.8039	11495649
2R	17912074	17912756	../05_Mac	99.79368	17912412
3L	19328526	19328983	../05_Mac	97.83887	19328745
3R	22508904	22509351	../05_Mac	97.56899	22509136
2R	12253689	12254200	../05_Mac	97.01659	12253920
3L	5915828	5916421	../05_Mac	95.38732	5916132
2R	14700098	14700505	../05_Mac	92.51885	14700307
2L	17085922	17086429	../05_Mac	92.19827	17086186
3R	14349952	14350652	../05_Mac	90.80159	14350236
3L	26755087	26755852	../05_Mac	90.75327	26755460
3R	18115026	18115554	../05_Mac	88.72097	18115255
2L	11586584	11587183	../05_Mac	88.25671	11586870
3R	18556982	18557572	../05_Mac	87.92178	18557272
2L	5491412	5491963	../05_Mac	86.21043	5491714
3R	17846455	17847002	../05_Mac	85.70705	17846753
3R	31699056	31699534	../05_Mac	84.99075	31699285
2L	6308549	6309107	../05_Mac	84.83384	6308797
2L	7710050	7711058	../05_Mac	82.49232	7710333
2L	5397309	5398046	../05_Mac	81.78165	5397723
3L	21872627	21873497	../05_Mac	81.77728	21873209
3L	15475041	15475691	../05_Mac	81.70948	15475379

\* Case2: 4219 new Aly peaks in kmg KD

1	2	3	4	5	6
chr	start	end	Peak_iden	q-value_for	summit
2R	20102705	20103253	../05_Mac	98.51183	20102973
3R	10927569	10928142	../05_Mac	93.13692	10927827
2L	3938582	3939293	../05_Mac	92.83832	3938803
3R	15562724	15563253	../05_Mac	86.58209	15562956
3R	28850456	28851193	../05_Mac	84.05924	28850999
2L	6278488	6278990	../05_Mac	82.83771	6278734
2L	19305797	19306351	../05_Mac	81.78394	19306064
3R	31176386	31177061	../05_Mac	81.70715	31176689
3R	31831754	31832288	../05_Mac	81.02097	31831960
2L	18547823	18548436	../05_Mac	80.68266	18548127
3R	11719069	11719681	../05_Mac	80.45921	11719326
2R	20711707	20712464	../05_Mac	79.86792	20711938
3L	18597838	18598453	../05_Mac	78.71223	18598020
2R	17994628	17995181	../05_Mac	78.13383	17994914
3L	23352825	23354114	../05_Mac	77.71645	23353136
2L	9279573	9280092	../05_Mac	77.53938	9279867
3R	21396437	21396879	../05_Mac	77.39561	21396663
2L	6176550	6177221	../05_Mac	76.80065	6176928
3L	1826284	1826999	../05_Mac	76.68582	1826765
2R	20766260	20767057	../05_Mac	76.51507	20766794
3R	13106665	13107136	../05_Mac	75.05458	13106910
2L	1045578	1046228	../05_Mac	74.15377	1045942
2L	17785831	17786876	../05_Mac	73.87795	17786427
3R	30836456	30837018	../05_Mac	73.69642	30836795
2R	13756509	13757082	../05_Mac	73.0602	13756794
2L	1387048	1387515	../05_Mac	72.71822	1387237
3R	28278585	28279098	../05_Mac	72.21231	28278856
3R	31567011	31567472	../05_Mac	71.93346	31567245
3R	28029805	28030350	../05_Mac	71.62776	28030074
3L	17222657	17223042	../05_Mac	71.04465	17222833
3R	20663902	20665023	../05_Mac	70.66276	20664313
3R	6574094	6574824	../05_Mac	70.46365	6574546
3R	6247389	6247952	../05_Mac	70.00258	6247666
3L	19138387	19139110	../05_Mac	69.74174	19138818
3L	22667627	22668182	../05_Mac	69.7134	22667903
2R	8470189	8470752	../05_Mac	69.33248	8470553











3R	10761670	10762163	../05_Mac	17.26735	10761853
3R	24279357	24279707	../05_Mac	16.92204	24279535
3R	5223079	5223547	../05_Mac	16.66974	5223282
3L	540695	541187	../05_Mac	16.29795	541037
2R	7781955	7782291	../05_Mac	16.11589	7782120
3L	11123237	11123540	../05_Mac	16.06254	11123380
2L	14337988	14338560	../05_Mac	14.99969	14338268
3R	21218956	21219343	../05_Mac	14.57804	21219141
3R	30039602	30039925	../05_Mac	14.41316	30039744
3R	4220727	4221035	../05_Mac	12.83661	4220890
2L	13211147	13211481	../05_Mac	12.61578	13211341
3R	8820739	8821130	../05_Mac	11.78813	8820860
3R	30022576	30022891	../05_Mac	11.53563	30022727
3R	30424968	30425254	../05_Mac	11.26481	30425096
3R	17683174	17683552	../05_Mac	10.80612	17683321
2L	850213	850761	../05_Mac	10.16837	850511

2L	2239069	2239585	../05_Mac	51.6875	2239328
3R	13986490	13987147	../05_Mac	51.66411	13986679
2L	17540717	17541338	../05_Mac	51.65485	17540942
3L	6983898	6984886	../05_Mac	51.63008	6984631
3R	10148353	10149481	../05_Mac	51.61872	10148654
2L	2627798	2628279	../05_Mac	51.60682	2628037
3L	22510041	22510457	../05_Mac	51.58593	22510226
2L	6605904	6606355	../05_Mac	51.48075	6606174
3R	13080793	13081512	../05_Mac	51.05012	13081176
3R	28361873	28362441	../05_Mac	51.05012	28362083
3R	25340046	25340424	../05_Mac	51.04226	25340225
2L	9371580	9372161	../05_Mac	50.98246	9371933
3L	22627127	22628028	../05_Mac	50.94432	22627837
2L	2507378	2507865	../05_Mac	50.93327	2507644
2L	8864376	8864939	../05_Mac	50.85351	8864625
3R	10261914	10262330	../05_Mac	50.72787	10262143
3R	5782903	5783332	../05_Mac	50.65041	5783096
3L	17436254	17436681	../05_Mac	50.63529	17436470
2L	19146514	19147306	../05_Mac	50.6035	19146902
3L	12661481	12661957	../05_Mac	50.59597	12661678
3L	18326587	18326974	../05_Mac	50.59597	18326753
3R	11720243	11720719	../05_Mac	50.59597	11720508
2R	23476440	23476869	../05_Mac	50.4631	23476636
2L	21238690	21239099	../05_Mac	50.45951	21238916
3L	17338967	17339489	../05_Mac	50.42625	17339260
2R	23790966	23791501	../05_Mac	50.35078	23791241
2R	9386566	9387040	../05_Mac	50.32623	9386785
2L	20906455	20907019	../05_Mac	50.27985	20906770
2L	540501	541270	../05_Mac	50.0372	541020
2L	6359815	6360776	../05_Mac	49.99343	6360058
X	8132178	8132562	../05_Mac	49.78323	8132376
2R	21757120	21757592	../05_Mac	49.76563	21757399
2R	10903296	10903997	../05_Mac	49.76435	10903512
3L	12091402	12092180	../05_Mac	49.75375	12091885
3L	22330594	22331630	../05_Mac	49.58327	22330869
2R	11042560	11043118	../05_Mac	49.53829	11042837
2L	13466224	13466705	../05_Mac	49.52439	13466503
X	6283421	6283859	../05_Mac	49.41702	6283666
2L	11536993	11537394	../05_Mac	49.39281	11537171
3L	21871741	21872232	../05_Mac	49.39281	21872055
3L	24361673	24362146	../05_Mac	49.39281	24361818
3L	4694462	4695098	../05_Mac	49.29331	4694818
3R	19273079	19273523	../05_Mac	49.18102	19273323
3L	5270111	5270935	../05_Mac	49.17151	5270388
3R	20139665	20140118	../05_Mac	49.07254	20139921
2L	19977784	19978271	../05_Mac	48.97273	19977987
2L	6268478	6268940	../05_Mac	48.79431	6268726
3R	11343401	11343809	../05_Mac	48.79431	11343603
3R	11358800	11359265	../05_Mac	48.79431	11359067

2R	5921572	5921968	../05_Mac	48.88335	5921765
3L	19530491	19531016	../05_Mac	48.71075	19530761
3R	7639091	7639717	../05_Mac	48.64645	7639533
2R	16364726	16365506	../05_Mac	48.64454	16365311
2R	22022257	22022795	../05_Mac	48.55902	22022502
2R	22346954	22347361	../05_Mac	48.51787	22347139
2L	15197982	15198686	../05_Mac	48.50626	15198432
3L	6359007	6359354	../05_Mac	48.50626	6359198
3R	10916909	10917626	../05_Mac	48.50626	10917338
3R	24460738	24461376	../05_Mac	48.50626	24461164
2R	11490856	11491732	../05_Mac	48.47798	11491424
3R	28258764	28259218	../05_Mac	48.43218	28258993
3L	10177309	10178134	../05_Mac	48.42579	10177505
3R	6272504	6273002	../05_Mac	48.28705	6272769
3R	27818427	27818903	../05_Mac	48.28705	27818667
2L	21960096	21960507	../05_Mac	48.15269	21960266
2L	15376044	15376425	../05_Mac	48.14112	15376225
2R	18994558	18994951	../05_Mac	48.13995	18994758
2R	21428916	21430058	../05_Mac	48.13808	21429817
2L	18860579	18861263	../05_Mac	48.11284	18861001
2L	2485117	2485538	../05_Mac	48.02585	2485345
3R	17593299	17593751	../05_Mac	47.99255	17593448
2L	12568741	12569153	../05_Mac	47.98302	12568958
2R	12107224	12107708	../05_Mac	47.98302	12107416
2L	3710125	3710669	../05_Mac	47.96387	3710487
3R	10654678	10655482	../05_Mac	47.8823	10655123
2L	3459413	3459800	../05_Mac	47.63538	3459615
3R	11728655	11729062	../05_Mac	47.48043	11728866
2R	15167586	15168241	../05_Mac	47.38752	15167965
3R	28631629	28633183	../05_Mac	47.35605	28631906
3R	10720357	10721129	../05_Mac	47.33945	10720638
3L	20941198	20941753	../05_Mac	47.2506	20941441
3L	3583360	3583752	../05_Mac	47.22268	3583507
3R	14856763	14857308	../05_Mac	47.20545	14857066
2R	20762080	20762625	../05_Mac	47.17302	20762370
2R	16886273	16886728	../05_Mac	47.09538	16886483
3R	22231815	22232375	../05_Mac	47.07937	22232165
3R	13893193	13893633	../05_Mac	47.05457	13893396
2R	24277694	24278106	../05_Mac	46.98161	24277932
2L	20258239	20258615	../05_Mac	46.97039	20258456
3R	2606799	2607724	../05_Mac	46.97039	2606999
3R	5453165	5453524	../05_Mac	46.97039	5453350
3R	16514354	16514832	../05_Mac	46.97039	16514524
X	20139588	20140052	../05_Mac	46.97039	20139856
3R	18557731	18558266	../05_Mac	46.89287	18558018
3R	12633396	12633869	../05_Mac	46.78901	12633646
3R	24491177	24491555	../05_Mac	46.76475	24491362
2L	16673039	16673443	../05_Mac	46.72453	16673223
3R	17865537	17865980	../05_Mac	46.67338	17865741

3R	4964091	4964535	../05_Mac	48.71268	4964276
2L	19942043	19942486	../05_Mac	48.6641	19942234
2L	12160546	12161051	../05_Mac	48.60431	12160830
2L	11310700	11311055	../05_Mac	48.59842	11310885
2L	1534900	1536128	../05_Mac	48.59123	1535868
3R	12727572	12728131	../05_Mac	48.59123	12727775
3R	23521411	23521810	../05_Mac	48.50274	23521582
2R	16078637	16079044	../05_Mac	48.37787	16078843
3L	9585768	9586177	../05_Mac	48.20192	9585949
2R	14399847	14400316	../05_Mac	48.19899	14400004
2R	20807903	20808360	../05_Mac	48.19899	20808121
2R	20909491	20909968	../05_Mac	48.19899	20909667
3R	17483563	17483985	../05_Mac	48.19899	17483758
3R	23413574	23414171	../05_Mac	48.19899	23413799
3R	11578540	11579016	../05_Mac	48.19783	11578802
2L	587847	588275	../05_Mac	48.04269	588019
3L	9236413	9236933	../05_Mac	48.02528	9236688
2R	5819055	5819504	../05_Mac	48.01215	5819248
3L	6200238	6200662	../05_Mac	47.63432	6200459
2L	4762615	4763096	../05_Mac	47.60636	4762854
3R	26778854	26779156	../05_Mac	47.60636	26779007
3L	18461503	18463286	../05_Mac	47.5068	18462743
2L	9580906	9581287	../05_Mac	47.49297	9581088
2R	23804225	23804958	../05_Mac	47.49297	23804720
3L	4508199	4508576	../05_Mac	47.46947	4508393
2L	2385657	2386330	../05_Mac	47.37914	2385813
2L	21577558	21578020	../05_Mac	47.21963	21577752
3L	11871069	11871644	../05_Mac	47.01601	11871302
3L	17275347	17275792	../05_Mac	47.01601	17275596
2R	8701633	8702034	../05_Mac	46.88433	8701835
2R	13077695	13078240	../05_Mac	46.88433	13077892
2L	1828702	1829162	../05_Mac	46.85847	1828937
3R	8504854	8505503	../05_Mac	46.85847	8505321
2R	24239178	24239593	../05_Mac	46.42884	24239343
2R	6854172	6854607	../05_Mac	46.35968	6854371
3R	4720826	4721400	../05_Mac	46.35544	4721124
2R	12297580	12298049	../05_Mac	46.3451	12297800
3R	19311275	19312006	../05_Mac	46.29081	19311831
3L	4751225	4751598	../05_Mac	46.2828	4751427
2.11E+14	10744	11152	../05_Mac	46.23242	10947
3L	9770271	9770949	../05_Mac	46.07524	9770446
3L	6454949	6455401	../05_Mac	46.05443	6455157
3R	14423882	14424428	../05_Mac	45.94327	14424210
3R	7625902	7626718	../05_Mac	45.87371	7626219
2L	17548852	17549232	../05_Mac	45.84376	17549019
2R	24445294	24445682	../05_Mac	45.84376	24445474
3L	20610321	20610748	../05_Mac	45.84376	20610508
3R	3263452	3263822	../05_Mac	45.84376	3263629
2L	22452306	22452602	../05_Mac	45.70048	22452460

3R	9378187	9378605	../05_Mac	46.6325	9378357
2L	3845577	3845905	../05_Mac	46.62829	3845749
2L	8494488	8494920	../05_Mac	46.61055	8494754
3L	20740525	20740964	../05_Mac	46.59114	20740747
3R	6305545	6305914	../05_Mac	46.50259	6305717
3R	31562541	31563086	../05_Mac	46.46188	31562865
3L	18584581	18585201	../05_Mac	46.44664	18584821
3L	13101318	13101783	../05_Mac	46.35941	13101531
3R	30384011	30384917	../05_Mac	46.32786	30384295
2L	18516298	18516811	../05_Mac	46.32494	18516571
3L	19621548	19621934	../05_Mac	46.32438	19621757
3R	26092827	26093327	../05_Mac	46.31619	26093095
2L	16560993	16561370	../05_Mac	46.28131	16561195
3R	13222074	13222509	../05_Mac	46.18966	13222257
2R	13762410	13763127	../05_Mac	46.11183	13762671
2L	4858260	4859376	../05_Mac	46.078	4859157
3L	18015082	18015513	../05_Mac	46.0621	18015292
2R	17310251	17310763	../05_Mac	45.97246	17310536
2R	12771419	12771790	../05_Mac	45.95564	12771605
2L	20610776	20611199	../05_Mac	45.94215	20610974
2L	1655494	1656044	../05_Mac	45.88438	1655777
3R	28504009	28504667	../05_Mac	45.83084	28504479
3R	13813380	13814029	../05_Mac	45.82809	13813653
2R	20159971	20160518	../05_Mac	45.81331	20160316
3R	10447228	10447716	../05_Mac	45.72833	10447451
3L	19690702	19691197	../05_Mac	45.72636	19690901
3R	12897669	12898186	../05_Mac	45.72636	12897927
3L	20086115	20086682	../05_Mac	45.68794	20086395
3L	22651632	22652170	../05_Mac	45.632	22651939
3L	20090573	20091097	../05_Mac	45.58994	20090896
2R	18558731	18559216	../05_Mac	45.55549	18558947
2L	19392361	19392952	../05_Mac	45.54462	19392614
2L	21398472	21398943	../05_Mac	45.47174	21398666
3L	14820862	14821371	../05_Mac	45.4572	14821123
3R	5996993	5997392	../05_Mac	45.45184	5997194
X	3643902	3644302	../05_Mac	45.45184	3644080
3R	22902179	22902633	../05_Mac	45.41866	22902408
3L	5220669	5221315	../05_Mac	45.37924	5220852
2L	6194861	6195372	../05_Mac	45.34084	6195092
2L	12661286	12661669	../05_Mac	45.34084	12661475
2R	17498124	17498634	../05_Mac	45.33725	17498348
3R	30632582	30633370	../05_Mac	45.32819	30633078
2L	20981948	20982423	../05_Mac	45.28376	20982171
3L	13447235	13447728	../05_Mac	45.24627	13447392
3L	17785388	17786136	../05_Mac	45.23314	17785848
3R	31852077	31852701	../05_Mac	45.12887	31852302
3R	25536520	25537323	../05_Mac	45.07924	25537076
3L	12302303	12302849	../05_Mac	45.0341	12302614
3R	13310293	13310684	../05_Mac	45.03143	13310484

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3L	22606155	22606582	../05_Mac	45.28035	22606331
3R	16036251	16036755	../05_Mac	45.26063	16036526
3L	14038926	14039389	../05_Mac	45.24402	14039122
2L	10932414	10932845	../05_Mac	45.22899	10932635
2L	9284577	9284977	../05_Mac	45.14884	9284785
3L	6927858	6928396	../05_Mac	45.14884	6928163
3R	19864045	19864969	../05_Mac	45.13716	19864702
3L	2656595	2657054	../05_Mac	45.12304	2656793
3R	19839849	19841121	../05_Mac	44.88533	19840878
Y	3257962	3258578	../05_Mac	44.85933	3258395
3R	20738939	20739550	../05_Mac	44.73734	20739222
2R	14631936	14632381	../05_Mac	44.6876	14632147
2L	10093991	10094674	../05_Mac	44.68054	10094429
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3L	16515296	16515682	../05_Mac	44.68054	16515514
3R	2211846	2212265	../05_Mac	44.68054	2212060
3R	18902003	18902536	../05_Mac	44.68054	18902194
2L	15357421	15358612	../05_Mac	44.59514	15357617
2L	3739419	3739880	../05_Mac	44.55737	3739606
2R	14661091	14662081	../05_Mac	44.55184	14661814
3L	6530504	6530946	../05_Mac	44.54479	6530750
3L	3688466	3689757	../05_Mac	44.51438	3689394
3L	16594921	16595286	../05_Mac	44.50639	16595080
3L	20927609	20928073	../05_Mac	44.42045	20927813
2R	6840444	6840899	../05_Mac	44.3465	6840641
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3L	18377309	18377821	../05_Mac	44.2623	18377622
3L	9598689	9599180	../05_Mac	44.25904	9598967
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2L	7013334	7013919	../05_Mac	44.10861	7013747
3R	6554152	6554667	../05_Mac	44.10326	6554373
3R	13869254	13869740	../05_Mac	44.10326	13869594
3R	29341637	29342150	../05_Mac	44.10326	29341862
2L	22108748	22109142	../05_Mac	43.98834	22108962
3L	20632830	20633205	../05_Mac	43.97087	20633023
2R	11704138	11704497	../05_Mac	43.87782	11704307
3R	15675569	15676128	../05_Mac	43.84209	15675877
3L	7220649	7221084	../05_Mac	43.63926	7220912
3L	19486259	19487157	../05_Mac	43.6325	19486510
2R	16102493	16102983	../05_Mac	43.53246	16102715
X	3316218	3316568	../05_Mac	43.52786	3316384
X	16731888	16732297	../05_Mac	43.52786	16732086
3L	4928025	4928399	../05_Mac	43.42222	4928231
3R	8947920	8948431	../05_Mac	43.4103	8948088
3L	557422	557860	../05_Mac	43.15096	557646
2L	2472766	2473575	../05_Mac	43.08313	2473015
2L	2045312	2045691	../05_Mac	43.06908	2045499
2R	14948660	14949287	../05_Mac	42.99479	14948943

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3R	10985875	10986304	../05_Mac	44.94907	10986085
3R	26613670	26614077	../05_Mac	44.94907	26613898
X	17173760	17174134	../05_Mac	44.94907	17173960
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3L	18936342	18936769	../05_Mac	44.65064	18936558
3R	7601663	7602275	../05_Mac	44.60367	7601884
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2L	1625627	1626420	../05_Mac	44.44822	1626259
3R	13490584	13491098	../05_Mac	44.44822	13490793
3R	9189786	9190999	../05_Mac	44.40859	9190263
3R	21548025	21548555	../05_Mac	44.34647	21548329
3R	21080053	21080686	../05_Mac	44.32965	21080242
3L	17218304	17218706	../05_Mac	44.27466	17218485
2L	6845342	6845847	../05_Mac	44.11072	6845663
2L	14170001	14170410	../05_Mac	44.03567	14170164
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2L	18898969	18899493	../05_Mac	43.94992	18899247
2R	19892240	19892617	../05_Mac	43.94992	19892383
2R	13774206	13775474	../05_Mac	43.92215	13775231
3L	11542998	11543362	../05_Mac	43.86101	11543176
2R	15173136	15173524	../05_Mac	43.85975	15173302
3L	4353309	4353618	../05_Mac	43.84819	4353471
2R	9517506	9518114	../05_Mac	43.82822	9517936
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3R	9195561	9196283	../05_Mac	43.7979	9196029
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3L	22073832	22074333	../05_Mac	43.52678	22074074
3R	6205742	6206336	../05_Mac	43.51272	6206132
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2R	21912009	21912418	../05_Mac	43.44513	21912173
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2L	17381612	17382004	../05_Mac	43.3965	17381792
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2L	2333545	2333978	../05_Mac	43.37526	2333782
3R	31642892	31643338	../05_Mac	43.3518	31643140
2R	18738946	18739734	../05_Mac	43.34745	18739527
3L	13290527	13290970	../05_Mac	43.33971	13290778
3R	10521368	10521813	../05_Mac	43.29625	10521636

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2R	8304830	8305258	../05_Mac	42.95503	8305075
2L	16642720	16643114	../05_Mac	42.92436	16642911
X	9267529	9267925	../05_Mac	42.87117	9267742
2L	21090999	21091332	../05_Mac	42.86257	21091144
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3R	6042735	6043178	../05_Mac	42.83683	6042963
3R	19424998	19425965	../05_Mac	42.78578	19425742
3R	4235742	4236193	../05_Mac	42.75794	4235973
2L	14460536	14461218	../05_Mac	42.64819	14460793
3R	4551698	4552239	../05_Mac	42.58527	4551947
3L	22607571	22608242	../05_Mac	42.52673	22608061
3R	25868140	25868611	../05_Mac	42.52673	25868401
3L	12413710	12414151	../05_Mac	42.49039	12413984
3R	6709512	6709916	../05_Mac	42.4002	6709722
2R	23138350	23138825	../05_Mac	42.38398	23138578
3L	23814437	23814808	../05_Mac	42.38398	23814628
3R	11463435	11463870	../05_Mac	42.38398	11463627
3R	18503818	18504260	../05_Mac	42.38398	18504082
2L	2079803	2080176	../05_Mac	42.31062	2079969
2L	20800332	20800730	../05_Mac	42.30289	20800535
3R	21534253	21534655	../05_Mac	42.19324	21534431
3R	15953986	15954762	../05_Mac	42.15079	15954471
2L	3989771	3990371	../05_Mac	42.11349	3990054
3R	19613149	19613594	../05_Mac	42.04321	19613359
3R	24201272	24201732	../05_Mac	41.9379	24201559
3L	10571886	10572545	../05_Mac	41.92849	10572178
2R	19455674	19456112	../05_Mac	41.86369	19455853
3R	12036172	12036599	../05_Mac	41.81507	12036352
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2L	18185320	18186201	../05_Mac	41.72001	18186025
3L	16747352	16747801	../05_Mac	41.644	16747607
3R	16000427	16001277	../05_Mac	41.59795	16001129
3L	5918087	5918594	../05_Mac	41.59607	5918372
3L	21814989	21815625	../05_Mac	41.50251	21815370
2L	20231747	20232292	../05_Mac	41.38636	20232039
3R	21373397	21374529	../05_Mac	41.38092	21373587
2R	9827009	9827355	../05_Mac	41.33538	9827196
3L	18523330	18523825	../05_Mac	41.33028	18523576
2L	3994433	3994811	../05_Mac	41.24826	3994611
3L	21718623	21719123	../05_Mac	41.24826	21718846
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Y_mapped	37043	37390	../05_Mac	41.24826	37209
2L	5480217	5480670	../05_Mac	41.2375	5480425
X	11918529	11918905	../05_Mac	41.21606	11918716
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3R	27764630	27765213	../05_Mac	43.25404	27764947
2R	20796240	20796681	../05_Mac	43.24304	20796435
3R	29694578	29694962	../05_Mac	43.17352	29694774
2L	2482059	2482493	../05_Mac	43.13536	2482301
2R	12067024	12067477	../05_Mac	43.12817	12067195
3R	23617933	23618244	../05_Mac	43.04987	23618066
3L	18091469	18091976	../05_Mac	43.0149	18091722
2R	24225022	24225551	../05_Mac	42.9583	24225203
3R	29403915	29404678	../05_Mac	42.9583	29404215
3R	25644513	25644953	../05_Mac	42.95797	25644725
3R	30229881	30230492	../05_Mac	42.92658	30230163
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3R	19724729	19725286	../05_Mac	42.65818	19724920
3R	6948872	6949490	../05_Mac	42.61566	6949316
3L	4949544	4950312	../05_Mac	42.51698	4950111
3L	10043309	10043801	../05_Mac	42.49581	10043538
3R	25824495	25825117	../05_Mac	42.49581	25824722
3L	9531204	9531856	../05_Mac	42.46591	9531572
3L	17167900	17168294	../05_Mac	42.46591	17168077
3L	4461399	4461845	../05_Mac	42.4508	4461609
3R	6883889	6884387	../05_Mac	42.4508	6884175
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3L	17410174	17410531	../05_Mac	42.43951	17410349
2R	13755360	13755736	../05_Mac	42.406	13755555
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2L	13847811	13848152	../05_Mac	42.29305	13848004
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2L	16328032	16328402	../05_Mac	42.09348	16328225
3L	5764243	5764682	../05_Mac	42.06059	5764478
2L	12506741	12507183	../05_Mac	42.06025	12506899
3R	8065351	8065863	../05_Mac	42.04132	8065542
2R	19966809	19967196	../05_Mac	42.03239	19967008
3L	10418910	10419289	../05_Mac	42.0286	10419115
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3R	28471706	28472367	../05_Mac	41.97681	28471872
3R	23654469	23655359	../05_Mac	41.8489	23654673
3R	17169665	17170098	../05_Mac	41.80099	17169907
3R	29612482	29613028	../05_Mac	41.80099	29612779
2R	8337236	8337921	../05_Mac	41.79207	8337722
2L	19844796	19845394	../05_Mac	41.74697	19845219
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3L	4804734	4805124	../05_Mac	41.08796	4804909
3R	4093126	4093638	../05_Mac	40.80625	4093395
2L	18077210	18077684	../05_Mac	40.68374	18077508
2R	24432514	24432923	../05_Mac	40.68374	24432739
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3L	22576399	22576844	../05_Mac	40.64237	22576618
2R	21067979	21068449	../05_Mac	40.58725	21068194
3L	20065751	20066118	../05_Mac	40.54168	20065923
3R	6459828	6460433	../05_Mac	40.5245	6460093
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2R	12806438	12806803	../05_Mac	40.34236	12806619
2L	21905819	21907219	../05_Mac	40.24661	21906996
2L	5588241	5588623	../05_Mac	40.12216	5588429
2R	7090013	7090350	../05_Mac	40.12216	7090186
3L	18294073	18294783	../05_Mac	40.12216	18294587
2L	9672243	9672991	../05_Mac	39.94168	9672804
3R	19715746	19716133	../05_Mac	39.91883	19715941
3L	7458857	7459349	../05_Mac	39.82336	7459042
3L	552995	553400	../05_Mac	39.73105	553217
3R	31805246	31805675	../05_Mac	39.70958	31805490
3R	6119524	6119912	../05_Mac	39.68351	6119712
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3L	1668544	1668965	../05_Mac	39.62989	1668775
2L	15564209	15564675	../05_Mac	39.56242	15564391
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3L	11914025	11914383	../05_Mac	39.56242	11914221
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3R	2613889	2614358	../05_Mac	39.56242	2614083
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3R	28754083	28754613	../05_Mac	39.56242	28754322
3R	19117578	19117911	../05_Mac	39.49658	19117736
2L	14941157	14941633	../05_Mac	39.43701	14941340
2L	11713054	11713567	../05_Mac	39.43435	11713366
3R	15428410	15428978	../05_Mac	39.39176	15428806
2R	25060059	25060454	../05_Mac	39.35271	25060251
2L	7788057	7788457	../05_Mac	39.33115	7788236
3L	10565828	10566610	../05_Mac	39.10673	10566287
3R	24734937	24735334	../05_Mac	39.04605	24735152
2L	14922835	14923272	../05_Mac	39.0056	14923037
3R	27758305	27758718	../05_Mac	39.0056	27758552
3R	24890617	24891044	../05_Mac	38.94885	24890858
3L	8745480	8745913	../05_Mac	38.89658	8745651
3L	22624799	22625183	../05_Mac	38.87848	22624986
2R	24579646	24579973	../05_Mac	38.76942	24579826
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3R	5756366	5756743	../05_Mac	41.65947	5756550
2L	12143619	12144096	../05_Mac	41.6508	12143865
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2L	17733627	17734323	../05_Mac	41.38108	17734073
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2R	5446410	5446859	../05_Mac	41.34021	5446661
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3L	20708615	20709139	../05_Mac	41.18454	20708906
3L	1767220	1767715	../05_Mac	41.14328	1767427
2R	13317500	13318216	../05_Mac	41.13708	13318052
3R	28188087	28188537	../05_Mac	41.12267	28188327
2L	16917055	16917420	../05_Mac	41.09909	16917223
3L	16789705	16790061	../05_Mac	40.94884	16789880
2R	18261724	18262210	../05_Mac	40.89657	18261929
3R	5383826	5384205	../05_Mac	40.88107	5384003
3R	24376886	24377369	../05_Mac	40.88107	24377119
3L	16296112	16296684	../05_Mac	40.83475	16296278
3L	3024486	3024851	../05_Mac	40.80062	3024663
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3L	22661963	22662451	../05_Mac	40.73346	22662184
3R	21505183	21505571	../05_Mac	40.71753	21505360
3R	13290509	13291042	../05_Mac	40.71748	13290863
2R	4542601	4542986	../05_Mac	40.71371	4542793
3R	9227581	9228542	../05_Mac	40.67726	9227823
3R	27732891	27733238	../05_Mac	40.6772	27733068
2L	4625420	4626478	../05_Mac	40.6501	4626281
2R	1512826	1513726	../05_Mac	40.56033	1513218
2R	10211717	10212025	../05_Mac	40.55241	10211868
2R	15791459	15791921	../05_Mac	40.53061	15791721
2L	9981603	9981947	../05_Mac	40.51564	9981767

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2R	20220873	20221285	../05_Mac	38.45107	20221060
3L	10261098	10261462	../05_Mac	38.45107	10261252
3L	13424476	13424886	../05_Mac	38.45107	13424648
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2R	9867409	9868842	../05_Mac	38.15618	9868527
2L	7176101	7176535	../05_Mac	38.15499	7176346
2R	16562943	16563374	../05_Mac	38.09716	16563138
3R	6647531	6647936	../05_Mac	38.09309	6647713
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2R	1359308	1359675	../05_Mac	37.89909	1359493
2R	9748300	9748940	../05_Mac	37.89909	9748496
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2R	19897623	19898001	../05_Mac	37.8687	19897807
3L	14413446	14413817	../05_Mac	37.84641	14413627
2R	24424909	24425272	../05_Mac	37.82431	24425097
2L	908290	908806	../05_Mac	37.77384	908501
2L	14871753	14872246	../05_Mac	37.69668	14872048
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3L	23032548	23033019	../05_Mac	37.63811	23032733
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3R	16863516	16863979	../05_Mac	37.53898	16863767
2R	5794904	5795576	../05_Mac	37.48922	5795336
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2L	16104552	16104928	../05_Mac	37.34965	16104735
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2R	20385048	20385543	../05_Mac	37.34965	20385239
3L	17306753	17307131	../05_Mac	37.34965	17306916
2L	9847995	9848464	../05_Mac	37.22552	9848224
3R	26266459	26266866	../05_Mac	37.17478	26266630
4	1305660	1306362	../05_Mac	37.04069	1305827

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X	20701847	20702165	../05_Mac	40.51564	20702033
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3L	21234242	21234974	../05_Mac	40.39759	21234733
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3L	12767646	12768175	../05_Mac	39.97437	12767854
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2R	16302466	16302788	../05_Mac	39.68813	16302625
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2L	10687822	10688358	../05_Mac	39.56059	10688136
2R	19075122	19075752	../05_Mac	39.55247	19075294
3R	22116428	22116935	../05_Mac	39.55247	22116676
X	14631759	14632125	../05_Mac	39.55247	14631948
3L	6828373	6829157	../05_Mac	39.51302	6828566
3R	11506486	11506827	../05_Mac	39.49678	11506655
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3R	15717944	15718303	../05_Mac	36.19924	15718138
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3R	27233546	27233915	../05_Mac	36.12917	27233717
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3R	15833141	15833705	../05_Mac	33.25926	15833514
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3R	28836608	28837049	../05_Mac	33.06752	28836879
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2L	14528099	14528980	../05_Mac	32.81727	14528678
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3R	22864430	22865228	../05_Mac	32.59069	22865070
3R	21982944	21983287	../05_Mac	32.56477	21983096
3L	22417359	22417797	../05_Mac	32.53486	22417597
2L	10099664	10100048	../05_Mac	32.53366	10099848
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3L	27670387	27671020	../05_Mac	32.53366	27670611
2R	14618580	14618841	../05_Mac	32.50566	14618698
2L	7450808	7451160	../05_Mac	32.4856	7450998
3R	7627382	7627750	../05_Mac	32.4856	7627586
3R	18361446	18362130	../05_Mac	32.4856	18361635
3L	4401271	4401606	../05_Mac	32.42975	4401420
2R	16083524	16083857	../05_Mac	32.40257	16083692
3R	20059539	20059939	../05_Mac	32.34246	20059736
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2L	20849197	20849541	../05_Mac	32.2557	20849357
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2L	21623373	21624860	../05_Mac	31.95915	21623637

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2R	24711508	24711897	../05_Mac	37.18132	24711700
3R	4547118	4547575	../05_Mac	37.18132	4547282
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X	12294724	12295159	../05_Mac	37.18132	12294944
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2R	15755803	15756172	../05_Mac	36.87857	15755982
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3L	13514175	13514627	../05_Mac	36.66138	13514356
3R	21423600	21423951	../05_Mac	36.64475	21423754
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2L	19759186	19759541	../05_Mac	36.55337	19759364
2R	12388134	12388541	../05_Mac	36.48615	12388325
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2L	15837858	15838239	../05_Mac	36.1832	15838049
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3R	24515359	24516089	../05_Mac	31.51814	24515913
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2L	18403478	18403956	../05_Mac	31.42947	18403742
3L	22351274	22351617	../05_Mac	31.40361	22351455
3R	31592232	31593244	../05_Mac	31.38786	31593048
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3L	11582903	11583239	../05_Mac	31.07812	11583053
2R	23501841	23502209	../05_Mac	31.07509	23502022
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2L	15547269	15547671	../05_Mac	30.71619	15547462
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2R	11085313	11085737	../05_Mac	30.68983	11085515
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3L	4222577	4223014	../05_Mac	30.54369	4222797
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3L	7648318	7649000	../05_Mac	36.07412	7648835
3L	17749213	17749612	../05_Mac	36.03687	17749414
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3L	11964821	11965400	../05_Mac	36.01114	11965014
3R	15580868	15581239	../05_Mac	36.00132	15581033
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2R	19042983	19043408	../05_Mac	35.78191	19043214
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2R	1579383	1579742	../05_Mac	29.95865	1579527
3L	18580744	18581091	../05_Mac	29.95865	18580923
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3R	11003482	11003981	../05_Mac	29.95865	11003657
X	4419095	4419407	../05_Mac	29.95865	4419236
X	20327309	20327582	../05_Mac	29.95865	20327430
3L	3036466	3036810	../05_Mac	29.95185	3036639
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3L	12188317	12188843	../05_Mac	29.86556	12188699
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2L	2023774	2024186	../05_Mac	29.78965	2023986
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3R	27595359	27595813	../05_Mac	29.46899	27595599
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3R	22953837	22954202	../05_Mac	29.45246	22954016
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2R	11360938	11361282	../05_Mac	35.12367	11361108
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2R	20044203	20044879	../05_Mac	34.59078	20044645
3L	22716350	22716946	../05_Mac	34.5737	22716598
3R	26929248	26930001	../05_Mac	34.52612	26929415
3R	15648698	15649142	../05_Mac	34.51739	15648943
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2L	15243742	15244071	../05_Mac	34.29888	15243899

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3L	16557229	16557631	../05_Mac	29.24156	16557434
2R	14037479	14037864	../05_Mac	29.21848	14037676
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2L	20947948	20948434	../05_Mac	28.98155	20948238
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3R	24406699	24407440	../05_Mac	28.94951	24407120
3L	8790749	8791094	../05_Mac	28.88417	8790926
3R	22350847	22351231	../05_Mac	28.81739	22350997
2R	20885924	20886452	../05_Mac	28.80533	20886215
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2.11E+14	11375	11743	../05_Mac	28.73933	11556
2R	22002326	22002726	../05_Mac	28.70223	22002499
4	984785	985231	../05_Mac	28.68182	985050
2L	20046431	20046922	../05_Mac	28.66932	20046686
3L	17128240	17128655	../05_Mac	28.56662	17128458
3R	15154816	15155317	../05_Mac	28.52268	15155098
3L	5061513	5061851	../05_Mac	28.50882	5061674
3R	17749203	17749653	../05_Mac	28.50882	17749383
2L	21798924	21799377	../05_Mac	28.50577	21799209
2L	18103392	18104159	../05_Mac	28.45144	18103947
2R	12060202	12060550	../05_Mac	28.44963	12060358
2R	15034125	15034529	../05_Mac	28.44963	15034335
3L	2951483	2951923	../05_Mac	28.44963	2951658
3L	15042375	15042804	../05_Mac	28.44963	15042523
X	20051135	20051457	../05_Mac	28.44963	20051286
3R	22616296	22616678	../05_Mac	28.4379	22616463
X	21116333	21116691	../05_Mac	28.40031	21116518
2R	25253228	25253901	../05_Mac	28.33322	25253703
2L	3515127	3515479	../05_Mac	28.33101	3515279
2L	17498672	17499030	../05_Mac	28.32745	17498867
3L	4042329	4042661	../05_Mac	28.32589	4042499
2R	13715820	13716168	../05_Mac	28.32109	13715979
2R	22752864	22753316	../05_Mac	28.32109	22753100
3R	12952035	12952414	../05_Mac	28.28992	12952230
3R	15382762	15383212	../05_Mac	28.28992	15383032
2L	563993	564395	../05_Mac	28.28933	564197
3R	8141379	8141763	../05_Mac	28.25395	8141554
2L	12317122	12317539	../05_Mac	28.16011	12317350

2R	7561785	7562143	../05_Mac	34.28711	7561960
3R	25534342	25535003	../05_Mac	34.28014	25534771
2L	8738181	8738733	../05_Mac	34.27372	8738543
2R	13817759	13818113	../05_Mac	34.25644	13817939
2R	11230549	11230960	../05_Mac	34.24977	11230720
3L	5001397	5001990	../05_Mac	34.23747	5001615
3R	11729263	11729924	../05_Mac	34.23747	11729712
3R	6081182	6081642	../05_Mac	34.22779	6081372
3L	12342066	12342502	../05_Mac	34.22529	12342343
3L	5087701	5088151	../05_Mac	34.22409	5087935
3R	26102147	26102668	../05_Mac	34.2212	26102463
4	1082125	1083190	../05_Mac	34.19623	1082576
3L	9682679	9683036	../05_Mac	34.17514	9682875
3L	1001507	1001871	../05_Mac	34.16874	1001662
2R	9420313	9420715	../05_Mac	34.15576	9420482
2L	3581447	3581935	../05_Mac	34.07621	3581617
3L	7073211	7073709	../05_Mac	34.05714	7073539
3R	25318474	25318809	../05_Mac	33.96949	25318652
2R	20626342	20626708	../05_Mac	33.9663	20626539
2L	1323243	1323835	../05_Mac	33.94512	1323657
2L	2077552	2077975	../05_Mac	33.94512	2077750
2R	2242580	2243042	../05_Mac	33.94512	2242824
2R	8301118	8301529	../05_Mac	33.94512	8301295
3L	9313318	9313902	../05_Mac	33.94512	9313509
3R	13923646	13923998	../05_Mac	33.94512	13923807
3R	19015673	19016021	../05_Mac	33.91959	19015850
2L	21910026	21910875	../05_Mac	33.90725	21910685
2L	8359020	8359363	../05_Mac	33.88161	8359187
2R	1335833	1336176	../05_Mac	33.85966	1335994
2L	10551390	10551995	../05_Mac	33.84845	10551569
2L	2679072	2679487	../05_Mac	33.83833	2679261
2L	17285654	17285986	../05_Mac	33.83833	17285799
3L	21329745	21330091	../05_Mac	33.83697	21329896
2R	21837632	21838057	../05_Mac	33.80393	21837850
3L	9519590	9520255	../05_Mac	33.80134	9520016
3R	23368114	23368797	../05_Mac	33.79918	23368606
2R	15168505	15168905	../05_Mac	33.79162	15168708
2R	18302939	18303392	../05_Mac	33.7888	18303129
3R	17202974	17203525	../05_Mac	33.7888	17203198
3L	1816314	1816654	../05_Mac	33.78431	1816499
3L	21185706	21186544	../05_Mac	33.74957	21186001
3L	1206546	1206940	../05_Mac	33.65081	1206769
2L	112623	113015	../05_Mac	33.64742	112801
2L	6277088	6277765	../05_Mac	33.64742	6277263
3L	14074846	14075248	../05_Mac	33.59674	14075018
3R	21907239	21907719	../05_Mac	33.53532	21907400
3L	14584718	14585016	../05_Mac	33.52095	14584846
3L	5022279	5022712	../05_Mac	33.4915	5022426
3L	24910475	24911130	../05_Mac	33.4915	24911000



3R	18310978	18311217	../05_Mac	28.14723	18311097
2R	9887409	9887781	../05_Mac	28.14134	9887593
3L	2212297	2212675	../05_Mac	28.10481	2212472
3L	3694024	3694449	../05_Mac	28.0974	3694264
2L	12085090	12085609	../05_Mac	28.04791	12085376
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3R	11630945	11631486	../05_Mac	28.03965	11631112
2L	10040399	10040998	../05_Mac	27.95278	10040599
2R	15395155	15395625	../05_Mac	27.95278	15395465
3R	13605115	13605481	../05_Mac	27.90376	13605300
2L	21883466	21883858	../05_Mac	27.8932	21883697
2L	13779660	13780018	../05_Mac	27.89024	13779868
3R	9021858	9022208	../05_Mac	27.85939	9022037
X	2073379	2073765	../05_Mac	27.83917	2073562
3R	9939419	9939753	../05_Mac	27.80477	9939608
3R	11399557	11399890	../05_Mac	27.77632	11399721
2L	11121598	11121908	../05_Mac	27.76225	11121740
3R	22715424	22715813	../05_Mac	27.75601	22715610
X	19521693	19522263	../05_Mac	27.65299	19522009
2L	14661293	14661744	../05_Mac	27.61287	14661562
3R	7376865	7377414	../05_Mac	27.5381	7377199
3L	12949849	12950210	../05_Mac	27.52927	12950012
3R	27291617	27292066	../05_Mac	27.50456	27291808
2R	19514555	19515255	../05_Mac	27.48585	19514779
2L	18026468	18026794	../05_Mac	27.45902	18026603
2R	12125628	12126030	../05_Mac	27.45902	12125819
2R	21954640	21955095	../05_Mac	27.45902	21954870
3L	7047774	7048091	../05_Mac	27.45902	7047929
3R	16718223	16718897	../05_Mac	27.45902	16718550
X	1340549	1340931	../05_Mac	27.45902	1340705
2R	14375678	14376021	../05_Mac	27.43943	14375822
2R	12139900	12140282	../05_Mac	27.4298	12140077
3L	3170033	3170329	../05_Mac	27.34391	3170174
3R	12657485	12658206	../05_Mac	27.25601	12657682
2R	20085527	20085915	../05_Mac	27.25377	20085671
2.11E+14	9883	11613	../05_Mac	27.18825	10794
3R	18360806	18361162	../05_Mac	27.18478	18360983
3L	3718359	3719184	../05_Mac	27.08615	3719007
3L	21406584	21406900	../05_Mac	27.0486	21406738
2L	10168812	10169203	../05_Mac	27.0306	10169018
3R	12555226	12555581	../05_Mac	27.0306	12555412
3R	26322061	26322483	../05_Mac	27.00048	26322290
2R	6838814	6839393	../05_Mac	26.96818	6838968
3L	8863555	8864017	../05_Mac	26.96818	8863797
3L	27863716	27864372	../05_Mac	26.96787	27864065
3R	8599202	8599587	../05_Mac	26.96787	8599390
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3R	27813507	27813844	../05_Mac	26.96787	27813687
3L	13618411	13618851	../05_Mac	26.88547	13618649

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3R	26081009	26081433	../05_Mac	33.42889	26081252
2R	12103922	12104562	../05_Mac	33.40967	12104335
2L	19384165	19384812	../05_Mac	33.38389	19384439
2L	4260283	4261106	../05_Mac	33.36532	4260865
3R	19674656	19674992	../05_Mac	33.36115	19674820
2R	22091793	22092165	../05_Mac	33.35788	22091966
3L	1484904	1485227	../05_Mac	33.35788	1485074
2R	20774280	20774652	../05_Mac	33.3533	20774457
2R	23216834	23217231	../05_Mac	33.35198	23217052
3L	13166754	13167163	../05_Mac	33.35198	13166979
2R	14435952	14436649	../05_Mac	33.35164	14436455
3R	5437590	5438043	../05_Mac	33.29429	5437782
2R	6151025	6151690	../05_Mac	33.27373	6151260
3L	21755378	21756046	../05_Mac	33.23662	21755830
3L	4299413	4299793	../05_Mac	33.14555	4299563
3L	18919236	18919580	../05_Mac	33.1386	18919412
2R	11695279	11696366	../05_Mac	33.11481	11695971
3R	8890972	8891404	../05_Mac	33.10614	8891162
3L	15469108	15469666	../05_Mac	33.08609	15469293
2R	13078672	13079024	../05_Mac	33.0401	13078861
2R	22366746	22367393	../05_Mac	33.0401	22366951
3L	12980192	12980693	../05_Mac	33.0401	12980508
3L	21859500	21859812	../05_Mac	33.0401	21859680
X	5346878	5347429	../05_Mac	33.0401	5347105
X	6831788	6832456	../05_Mac	33.0401	6832270
X	15376712	15377102	../05_Mac	33.0401	15376915
3L	4059858	4060244	../05_Mac	33.02581	4060048
3R	28671661	28672063	../05_Mac	33.02581	28671896
3R	17180700	17181410	../05_Mac	33.01471	17180900
3R	25639546	25639923	../05_Mac	33.01303	25639705
3R	6200240	6200766	../05_Mac	32.99419	6200437
2L	11483197	11483687	../05_Mac	32.98478	11483433
3L	1139516	1140195	../05_Mac	32.97598	1140019
2L	12322882	12323326	../05_Mac	32.95322	12323120
2R	15496530	15496976	../05_Mac	32.95322	15496803
3R	17263525	17263961	../05_Mac	32.94671	17263734
3R	26992324	26992934	../05_Mac	32.94671	26992608
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3L	19424545	19424955	../05_Mac	32.93587	19424757
X	17102960	17103316	../05_Mac	32.93005	17103127
2L	17549771	17550391	../05_Mac	32.92455	17550009
3L	23082123	23082445	../05_Mac	32.92209	23082309
2R	5860938	5861316	../05_Mac	32.91964	5861139
2R	24825572	24825923	../05_Mac	32.9007	24825773
3R	24372440	24372891	../05_Mac	32.89131	24372602

3R	7884117	7884563	../05_Mac	26.80817	7884381
2L	14448886	14449251	../05_Mac	26.79665	14449084
2L	21957667	21958118	../05_Mac	26.77976	21957876
3L	9402248	9402683	../05_Mac	26.75236	9402444
3L	7544538	7545060	../05_Mac	26.73385	7544690
3R	10941379	10941831	../05_Mac	26.62478	10941609
2R	9098541	9099019	../05_Mac	26.60064	9098759
3L	19355941	19356357	../05_Mac	26.58312	19356087
X	11367751	11368075	../05_Mac	26.57518	11367929
2L	11648671	11649388	../05_Mac	26.56002	11648867
2L	1999783	2000223	../05_Mac	26.54364	2000020
3R	6472438	6472772	../05_Mac	26.51238	6472587
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2L	6109085	6109598	../05_Mac	26.47992	6109280
2R	12052806	12053105	../05_Mac	26.47992	12052923
2R	13722604	13722952	../05_Mac	26.47992	13722762
2R	18256475	18256798	../05_Mac	26.47992	18256637
2L	16202873	16203355	../05_Mac	26.45678	16203062
2L	14356837	14357248	../05_Mac	26.32582	14357013
3R	24553697	24554482	../05_Mac	26.26375	24554186
2L	1355722	1356136	../05_Mac	26.26372	1355959
3R	4343361	4344598	../05_Mac	26.21552	4344145
2L	16560245	16560642	../05_Mac	26.16852	16560446
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3L	13218650	13219072	../05_Mac	26.05579	13218883
2R	24891936	24892279	../05_Mac	26.04052	24892099
3R	29270048	29270431	../05_Mac	26.04052	29270222
3L	22917139	22917505	../05_Mac	26.00657	22917314
3L	14693016	14694091	../05_Mac	25.9949	14693211
3L	22498122	22498962	../05_Mac	25.9949	22498763
3L	23934973	23935506	../05_Mac	25.9949	23935250
2L	6948694	6948938	../05_Mac	25.95539	6948825
3R	12627732	12628083	../05_Mac	25.9065	12627888
3R	21356778	21357107	../05_Mac	25.82007	21356925
2R	6012832	6013528	../05_Mac	25.7774	6013356
3L	3127430	3127829	../05_Mac	25.77569	3127611
2L	14006892	14007171	../05_Mac	25.73549	14007045
2R	22842336	22842887	../05_Mac	25.72581	22842493
2R	18246416	18247021	../05_Mac	25.66639	18246823
2L	9675901	9676206	../05_Mac	25.58844	9676036
3R	12512623	12512996	../05_Mac	25.5706	12512811
3R	5829241	5829580	../05_Mac	25.56163	5829398
2R	8003556	8004044	../05_Mac	25.53724	8003879
2L	5637728	5638160	../05_Mac	25.51234	5637968
2L	8893046	8893355	../05_Mac	25.51234	8893211
2L	13951710	13952143	../05_Mac	25.51234	13951949
2R	10314788	10315183	../05_Mac	25.51234	10315019
2R	22756717	22757004	../05_Mac	25.51234	22756868
2R	23341564	23342027	../05_Mac	25.51234	23341798

3L	14333012	14333591	../05_Mac	32.89042	14333232
3L	10560197	10560533	../05_Mac	32.8814	10560344
2L	4121999	4122372	../05_Mac	32.83628	4122140
2L	12081956	12082330	../05_Mac	32.81348	12082150
2R	17279380	17279801	../05_Mac	32.81348	17279595
2L	11883264	11883722	../05_Mac	32.77732	11883513
2L	18502839	18503260	../05_Mac	32.67979	18503079
3R	5858342	5858715	../05_Mac	32.66515	5858523
2L	23014453	23015010	../05_Mac	32.65845	23014821
2R	12292209	12292492	../05_Mac	32.65509	12292351
3R	10837047	10837383	../05_Mac	32.61153	10837220
3L	5101222	5101625	../05_Mac	32.59102	5101449
3R	5922660	5923238	../05_Mac	32.59102	5922851
3R	11510673	11511018	../05_Mac	32.59102	11510849
3R	27405195	27405592	../05_Mac	32.59102	27405429
3R	28081845	28082246	../05_Mac	32.59102	28082057
3R	28559631	28560030	../05_Mac	32.59102	28559821
X	18219420	18220250	../05_Mac	32.59102	18219678
3R	12749135	12749644	../05_Mac	32.55949	12749429
2L	17345274	17345730	../05_Mac	32.51241	17345600
3L	22676531	22676897	../05_Mac	32.50678	22676719
3R	11474211	11474633	../05_Mac	32.49872	11474433
3L	14456859	14457290	../05_Mac	32.49497	14457087
2L	5595804	5596166	../05_Mac	32.49462	5596000
2R	8850278	8850968	../05_Mac	32.49391	8850775
3L	14720086	14720467	../05_Mac	32.4913	14720256
3R	7166797	7167137	../05_Mac	32.48874	7166984
3R	12342917	12343520	../05_Mac	32.48862	12343096
2R	22367839	22368361	../05_Mac	32.48703	22367966
3L	13078127	13078404	../05_Mac	32.48703	13078269
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3L	5593732	5594230	../05_Mac	32.41589	5594043
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3R	23880604	23880943	../05_Mac	32.34168	23880788
3R	7832443	7832830	../05_Mac	32.22979	7832593
2L	19840066	19840593	../05_Mac	32.21566	19840274
2R	20009298	20009932	../05_Mac	32.21564	20009742
2L	19876805	19877262	../05_Mac	32.18493	19877049
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2R	8816148	8816486	../05_Mac	32.14408	8816314
2R	21882819	21883914	../05_Mac	32.14408	21883029
3L	1012969	1013535	../05_Mac	32.14408	1013291
3R	27220173	27220636	../05_Mac	32.14408	27220340

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3R	8087095	8087653	../05_Mac	25.51234	8087333
3R	11310464	11310862	../05_Mac	25.51234	11310637
X	14061405	14061693	../05_Mac	25.51234	14061504
3R	26356002	26356328	../05_Mac	25.45087	26356145
3L	15981940	15982255	../05_Mac	25.43954	15982078
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2R	22985146	22985489	../05_Mac	25.31686	22985297
4	291856	292280	../05_Mac	25.26678	291992
3R	23803738	23804122	../05_Mac	25.23672	23803929
3L	6022398	6022799	../05_Mac	25.22342	6022591
3L	21162781	21163263	../05_Mac	25.18155	21163069
3L	7450698	7451140	../05_Mac	25.14882	7450947
3R	24912797	24913153	../05_Mac	25.14469	24912926
2L	21785035	21785458	../05_Mac	25.13259	21785188
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2L	9700167	9700613	../05_Mac	25.09714	9700353
2L	14290381	14290871	../05_Mac	25.06598	14290553
3R	13229235	13229787	../05_Mac	25.05718	13229494
3R	6864283	6864666	../05_Mac	25.03319	6864491
X	4276912	4277234	../05_Mac	25.03319	4277064
3L	18988290	18988586	../05_Mac	25.02578	18988420
X	6346902	6347632	../05_Mac	24.98321	6347445
3R	9709462	9710052	../05_Mac	24.85798	9709726
3R	18010791	18011107	../05_Mac	24.81277	18010946
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2L	1092799	1093125	../05_Mac	24.76317	1092958
3L	19576675	19577424	../05_Mac	24.75965	19577033
3L	250847	251204	../05_Mac	24.71003	251031
2L	9119386	9119962	../05_Mac	24.66629	9119590
2L	15073179	15073653	../05_Mac	24.61006	15073370
3L	16703542	16703956	../05_Mac	24.58418	16703703
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X	21570219	21570757	../05_Mac	24.55686	21570382
2L	21335662	21336412	../05_Mac	24.52785	21336258
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2R	23351391	23351703	../05_Mac	24.4006	23351535
2R	17571781	17572246	../05_Mac	24.38012	17572004
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2L	13049219	13049711	../05_Mac	24.30307	13049474
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3L	3551622	3552079	../05_Mac	32.10991	3551887
2L	17694860	17695223	../05_Mac	32.08626	17695032
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2L	4052485	4052978	../05_Mac	32.07789	4052674
3R	27389474	27389951	../05_Mac	32.07789	27389697
3R	24430239	24430681	../05_Mac	32.06324	24430517
2R	21747396	21747699	../05_Mac	32.06301	21747516
3L	2675916	2676270	../05_Mac	32.06301	2676103
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3R	8594512	8594953	../05_Mac	24.08362	8594728
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X	3273084	3273606	../05_Mac	24.08362	3273266
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2R	10720614	10721089	../05_Mac	24.07468	10720861
3R	12344226	12345288	../05_Mac	24.07022	12345016
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2L	19535288	19535611	../05_Mac	23.68269	19535436
2R	18123107	18123403	../05_Mac	23.67249	18123262
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3L	8888230	8888802	../05_Mac	23.3887	8888641
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3R	31174276	31174588	../05_Mac	23.25727	31174452
2R	14153231	14153567	../05_Mac	23.23263	14153421

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2L	4786086	4786587	../05_Mac	31.6204	4786409
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2R	15026748	15027125	../05_Mac	22.96738	15026946
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3R	11462392	11462787	../05_Mac	22.95669	11462550
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3R	16239172	16239527	../05_Mac	22.84019	16239389
2R	16996935	16997324	../05_Mac	22.80781	16997111
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2R	12106310	12106787	../05_Mac	22.75235	12106465
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2L	9941396	9941716	../05_Mac	30.79151	9941573
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2L	1821267	1821599	../05_Mac	21.4544	1821432
3L	18622495	18622914	../05_Mac	21.41201	18622737
3R	12661929	12662314	../05_Mac	21.40153	12662138
3R	4381398	4381841	../05_Mac	21.37259	4381578
4	767202	767539	../05_Mac	21.36106	767349
2R	22794981	22795386	../05_Mac	21.35786	22795195
2L	15932633	15933182	../05_Mac	21.35475	15932843
3R	4225933	4226308	../05_Mac	21.34681	4226085
2L	2301700	2302210	../05_Mac	21.31789	2301871
3R	31471305	31471662	../05_Mac	21.31789	31471499
X	5864948	5865296	../05_Mac	21.31789	5865140

3R	7755520	7755943	../05_Mac	30.46169	7755706
3L	16210028	16210381	../05_Mac	30.42432	16210235
3R	15198373	15198803	../05_Mac	30.42382	15198632
2L	843191	843510	../05_Mac	30.40512	843373
2L	6868037	6868653	../05_Mac	30.4023	6868490
2L	15883744	15884670	../05_Mac	30.4023	15884485
3R	8280780	8281148	../05_Mac	30.4023	8280964
2L	9366831	9367351	../05_Mac	30.37947	9367072
2R	4964588	4965024	../05_Mac	30.37947	4964738
3R	5927925	5928616	../05_Mac	30.37947	5928054
X	7765848	7766266	../05_Mac	30.37947	7765976
2R	16511183	16511724	../05_Mac	30.3766	16511482
2L	2913014	2913412	../05_Mac	30.37631	2913223
3R	6929672	6930004	../05_Mac	30.36059	6929841
3R	31656681	31657061	../05_Mac	30.35355	31656860
2R	20725097	20725412	../05_Mac	30.33645	20725245
3R	27221338	27221671	../05_Mac	30.32416	27221516
3R	5443875	5444264	../05_Mac	30.32214	5444089
2R	8249902	8250756	../05_Mac	30.30515	8250498
2L	11851163	11851560	../05_Mac	30.29549	11851355
3R	21949196	21949646	../05_Mac	30.25411	21949341
2L	11592335	11592737	../05_Mac	30.24416	11592569
3L	13945693	13946106	../05_Mac	30.18624	13945913
3R	6313610	6314145	../05_Mac	30.11324	6313803
3R	9495760	9496119	../05_Mac	30.09372	9495942
2L	21772926	21773403	../05_Mac	30.06843	21773110
3L	17928913	17929245	../05_Mac	30.06843	17929087
3L	20084675	20085031	../05_Mac	30.06307	20084851
2R	11403868	11404459	../05_Mac	30.02912	11404203
3R	30538029	30538362	../05_Mac	29.98506	30538211
3R	13341959	13342532	../05_Mac	29.97791	13342199
2L	14349152	14349937	../05_Mac	29.95697	14349324
3L	6876475	6877017	../05_Mac	29.94854	6876662
2L	6192145	6192467	../05_Mac	29.9437	6192273
2R	13365278	13365625	../05_Mac	29.9437	13365456
3L	18691058	18691790	../05_Mac	29.9437	18691489
3L	28090327	28090690	../05_Mac	29.9437	28090517
3R	5970037	5970419	../05_Mac	29.9437	5970251
3R	10947388	10947674	../05_Mac	29.9437	10947547
3R	18828612	18828969	../05_Mac	29.9437	18828788
X	4414522	4414809	../05_Mac	29.9437	4414659
X	11298357	11298695	../05_Mac	29.9437	11298520
2R	11566608	11567325	../05_Mac	29.93354	11567168
2R	16095591	16095887	../05_Mac	29.92968	16095752
3L	568071	568400	../05_Mac	29.90832	568222
3L	19168221	19168554	../05_Mac	29.89726	19168396
2L	15469573	15469993	../05_Mac	29.89486	15469758
2R	18222523	18222841	../05_Mac	29.89486	18222660
3R	12893426	12893726	../05_Mac	29.89221	12893555

2R	22043393	22043779	../05_Mac	21.28309	22043578
3L	12847844	12848327	../05_Mac	21.26607	12848070
3L	7483987	7484502	../05_Mac	21.2104	7484267
3R	9393520	9393971	../05_Mac	21.18498	9393706
X	8595459	8595752	../05_Mac	21.17418	8595610
2R	7719818	7720102	../05_Mac	21.16383	7719970
2L	3613617	3613930	../05_Mac	21.10933	3613764
3L	3102949	3103245	../05_Mac	21.06083	3103078
3L	8211535	8212072	../05_Mac	20.95709	8211864
2R	22796887	22797423	../05_Mac	20.88411	22797038
2L	6177674	6177956	../05_Mac	20.86913	6177809
2R	1691210	1691590	../05_Mac	20.86913	1691449
2R	8799933	8800422	../05_Mac	20.86913	8800248
3R	27882893	27883284	../05_Mac	20.86913	27883044
X	10618912	10619337	../05_Mac	20.86913	10619099
X	20745851	20746138	../05_Mac	20.86913	20746007
2L	3758020	3758341	../05_Mac	20.86536	3758189
3L	11448579	11449068	../05_Mac	20.79408	11448832
2.11E+14	1412	1628	../05_Mac	20.77171	1550
3L	21281202	21281633	../05_Mac	20.7175	21281434
3R	29903158	29903460	../05_Mac	20.64763	29903302
2R	18723398	18723724	../05_Mac	20.61559	18723563
X	19742964	19743345	../05_Mac	20.60205	19743165
2L	8418612	8419003	../05_Mac	20.5571	8418814
3R	12274878	12275177	../05_Mac	20.54517	12275007
3R	15702202	15702524	../05_Mac	20.53332	15702343
X	5618460	5618832	../05_Mac	20.53332	5618701
3R	19029747	19030083	../05_Mac	20.50616	19029896
3L	21409002	21409289	../05_Mac	20.47334	21409126
2L	15830704	15831105	../05_Mac	20.4514	15830861
Y	887255	887697	../05_Mac	20.44851	887438
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2L	20607621	20608021	../05_Mac	20.42355	20607895
3R	28573565	28573832	../05_Mac	20.42355	28573697
3L	14761842	14762222	../05_Mac	20.42254	14762006
3L	10824666	10825180	../05_Mac	20.38516	10825004
3L	1806777	1807150	../05_Mac	20.37714	1806942
2L	1246487	1246818	../05_Mac	20.33736	1246656
3R	25508324	25508735	../05_Mac	20.3321	25508449
3L	14358458	14358745	../05_Mac	20.3059	14358590
3R	18212408	18212686	../05_Mac	20.27057	18212539
2L	14532756	14533651	../05_Mac	20.22199	14532921
3L	12544931	12545411	../05_Mac	20.18416	12545109
2R	10175479	10175810	../05_Mac	20.12489	10175651
2L	10910071	10910430	../05_Mac	20.06899	10910257
3L	1553540	1553946	../05_Mac	20.0634	1553799
2R	20882887	20883265	../05_Mac	20.02102	20883074
3L	527041	527416	../05_Mac	20.02102	527207
2L	11296546	11296991	../05_Mac	20.0108	11296730

2R	11507573	11507927	../05_Mac	29.89028	11507759
3R	31512344	31512676	../05_Mac	29.89028	31512523
2L	17297913	17298241	../05_Mac	29.88926	17298060
3R	16977114	16977498	../05_Mac	29.88682	16977285
2L	6857612	6857942	../05_Mac	29.83841	6857778
3L	16205687	16206335	../05_Mac	29.83537	16205834
2R	16687176	16687630	../05_Mac	29.80404	16687402
3L	5382803	5383273	../05_Mac	29.78675	5383068
3R	31244118	31244523	../05_Mac	29.78675	31244357
2R	6095621	6096012	../05_Mac	29.78227	6095809
3L	383224	383612	../05_Mac	29.73021	383383
3L	10348174	10348678	../05_Mac	29.71236	10348445
2R	20171090	20171457	../05_Mac	29.7056	20171269
3L	16889485	16889875	../05_Mac	29.70478	16889639
3R	23527297	23527607	../05_Mac	29.69813	23527431
3R	4304545	4305005	../05_Mac	29.69664	4304752
3L	11437403	11437755	../05_Mac	29.68226	11437543
3R	26139680	26140685	../05_Mac	29.68226	26139888
3L	9204836	9205235	../05_Mac	29.67999	9205012
3R	24012197	24012612	../05_Mac	29.6797	24012421
2L	11273740	11274075	../05_Mac	29.66387	11273904
2L	17380671	17381006	../05_Mac	29.66384	17380828
2R	12287687	12288184	../05_Mac	29.66384	12288007
3R	9757453	9757922	../05_Mac	29.66268	9757612
3L	18586535	18587066	../05_Mac	29.65482	18586738
3R	8841697	8842230	../05_Mac	29.63875	8842001
3R	24373701	24374116	../05_Mac	29.63321	24373921
3L	14424231	14424657	../05_Mac	29.62333	14424452
3L	15898901	15899233	../05_Mac	29.60646	15899049
3R	23550925	23551335	../05_Mac	29.60471	23551111
3R	9432558	9432921	../05_Mac	29.59428	9432771
2L	22704585	22704980	../05_Mac	29.58293	22704800
2L	6395880	6396208	../05_Mac	29.51291	6396031
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2R	1602024	1602426	../05_Mac	29.51047	1602212
3L	13553989	13554359	../05_Mac	29.51047	13554177
3L	16246788	16247298	../05_Mac	29.51047	16247095
3R	20349098	20349433	../05_Mac	29.51047	20349239
3R	22228847	22229210	../05_Mac	29.51047	22229061
3R	27423756	27424153	../05_Mac	29.51047	27423934
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X	20874625	20874908	../05_Mac	29.51047	20874780
3R	25403090	25403454	../05_Mac	29.49526	25403280
3L	9023097	9023482	../05_Mac	29.4847	9023251
2R	8345156	8345573	../05_Mac	29.47319	8345388
3L	6111924	6112323	../05_Mac	29.47319	6112117
3L	3004853	3005246	../05_Mac	29.46452	3005029
2L	370487	371314	../05_Mac	29.45311	371167
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3R	31159469	31159821	../05_Mac	20.0108	31159623
3L	5232197	5232480	../05_Mac	19.99034	5232351
2L	16063748	16064164	../05_Mac	19.98111	16063943
3L	5044051	5044358	../05_Mac	19.98111	5044209
3L	17259562	17260089	../05_Mac	19.98111	17259900
3R	4270519	4270774	../05_Mac	19.98111	4270684
3R	11356536	11356808	../05_Mac	19.98111	11356668
3R	20079894	20080268	../05_Mac	19.98111	20080119
3R	27453487	27453847	../05_Mac	19.98111	27453660
3R	28101935	28102301	../05_Mac	19.98111	28102161
2R	24268420	24268764	../05_Mac	19.94338	24268598
3R	30994137	30994465	../05_Mac	19.94338	30994328
2.11E+14	1233	1619	../05_Mac	19.86899	1428
3L	11645485	11645815	../05_Mac	19.85512	11645662
2L	6576393	6576702	../05_Mac	19.84987	6576557
3L	7395723	7396078	../05_Mac	19.81319	7395898
2L	6484096	6484391	../05_Mac	19.79919	6484228
2L	3706964	3707265	../05_Mac	19.79594	3707094
2R	7909480	7909851	../05_Mac	19.79594	7909662
3R	4687449	4687923	../05_Mac	19.7657	4687601
3R	19533308	19533969	../05_Mac	19.76353	19533777
2R	12339969	12340325	../05_Mac	19.72516	12340155
3L	15496466	15496813	../05_Mac	19.69833	15496592
3L	18949436	18949777	../05_Mac	19.6743	18949608
2L	6705213	6705729	../05_Mac	19.64003	6705448
2R	12582720	12583035	../05_Mac	19.63368	12582879
3R	26761670	26762222	../05_Mac	19.61565	26762048
2R	21238197	21238527	../05_Mac	19.61477	21238352
3L	458064	458410	../05_Mac	19.59151	458250
3R	14943765	14944199	../05_Mac	19.58724	14944013
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2R	16456829	16457360	../05_Mac	19.54259	16457091
3L	12325297	12325642	../05_Mac	19.54259	12325461
3L	13598293	13598694	../05_Mac	19.54259	13598546
3R	30179351	30179681	../05_Mac	19.53786	30179492
3L	21652855	21653156	../05_Mac	19.51544	21653010
2R	870261	870545	../05_Mac	19.51088	870379
3R	7948152	7948951	../05_Mac	19.50028	7948317
3R	14501805	14502195	../05_Mac	19.41213	14501995
3L	10747900	10748251	../05_Mac	19.4109	10748067
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3R	20719063	20719460	../05_Mac	19.39011	20719262
2R	8159433	8160006	../05_Mac	19.34907	8159571
3R	17434773	17435939	../05_Mac	19.34903	17435349
3L	3037287	3037608	../05_Mac	19.20371	3037465
3R	6739484	6739866	../05_Mac	19.19678	6739682
2R	25206508	25206872	../05_Mac	19.15726	25206673
2.11E+14	2138	2392	../05_Mac	19.1073	2304

3L	8886405	8886740	../05_Mac	29.43424	8886569
2L	11330811	11331128	../05_Mac	29.42556	11330981
3L	64794	65212	../05_Mac	29.41113	64975
2L	18133517	18133862	../05_Mac	29.37557	18133688
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2L	13862465	13863043	../05_Mac	29.296	13862866
2L	19367664	19368050	../05_Mac	29.296	19367867
3R	8212341	8212811	../05_Mac	29.28393	8212629
Unmapped	19419	19841	../05_Mac	29.27039	19584
2R	5833370	5833912	../05_Mac	29.26128	5833691
3L	12783918	12784299	../05_Mac	29.25104	12784099
3L	22214387	22214941	../05_Mac	29.21296	22214573
3L	9694946	9695306	../05_Mac	29.21151	9695123
2L	11950753	11951217	../05_Mac	29.19788	11950921
2R	21783677	21784212	../05_Mac	29.17262	21783873
3L	8830192	8830855	../05_Mac	29.14887	8830587
2R	16376412	16376826	../05_Mac	29.14304	16376654
3L	14239081	14239510	../05_Mac	29.13357	14239277
2R	8874542	8874889	../05_Mac	29.11895	8874702
3L	5969244	5969681	../05_Mac	29.08729	5969481
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3L	8327465	8327809	../05_Mac	29.08009	8327651
2R	8853052	8853500	../05_Mac	29.07931	8853287
2R	20797710	20798057	../05_Mac	29.07931	20797877
3L	5060296	5060870	../05_Mac	29.07931	5060626
3R	12826369	12826671	../05_Mac	29.07931	12826525
3R	16415845	16416607	../05_Mac	29.07931	16416455
3R	17313728	17314089	../05_Mac	29.07931	17313905
3R	29342822	29343157	../05_Mac	29.07931	29342981
Y	3264457	3264710	../05_Mac	29.07931	3264636
3L	4201196	4201550	../05_Mac	29.06109	4201375
2L	15336618	15337004	../05_Mac	29.0444	15336867
2R	13346088	13346523	../05_Mac	29.03089	13346242
3R	28003588	28003945	../05_Mac	29.02783	28003766
2L	9332232	9332817	../05_Mac	29.02493	9332462
3R	24948459	24948875	../05_Mac	28.95309	24948687
2L	2592805	2593152	../05_Mac	28.93611	2592950
3R	5692743	5693063	../05_Mac	28.88976	5692883
3R	7480492	7480914	../05_Mac	28.86097	7480672
3R	12779199	12779656	../05_Mac	28.86097	12779371
2R	8221335	8221880	../05_Mac	28.84339	8221609
3R	11776896	11777317	../05_Mac	28.82789	11777087
2L	4132722	4133167	../05_Mac	28.82625	4132980
3L	3867872	3868332	../05_Mac	28.80968	3868037
2L	2098642	2098976	../05_Mac	28.78821	2098793
2L	7713231	7713600	../05_Mac	28.77797	7713410
3R	8567799	8568184	../05_Mac	28.76326	8567954
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2L	1057622	1058037	../05_Mac	28.76299	1057855



2L	9832483	9832755	../05_Mac	19.1073	9832650
3R	4944652	4945206	../05_Mac	19.1073	4944989
3R	29607000	29607306	../05_Mac	19.1073	29607130
X	7872670	7872908	../05_Mac	19.1073	7872817
X	15587554	15587900	../05_Mac	19.1073	15587707
2R	23350209	23350595	../05_Mac	19.10446	23350405
3L	10278769	10279155	../05_Mac	19.09395	10279001
3L	6784718	6785244	../05_Mac	19.07048	6784932
2R	18863771	18864380	../05_Mac	19.0139	18864039
3R	29567151	29567509	../05_Mac	18.96906	29567315
2L	8836337	8836824	../05_Mac	18.94081	8836471
3R	19297532	19297822	../05_Mac	18.93763	19297665
3L	23751912	23752266	../05_Mac	18.92329	23752106
3R	8151615	8151911	../05_Mac	18.92167	8151776
2R	10247359	10248314	../05_Mac	18.86038	10248002
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3L	6376757	6377344	../05_Mac	18.84989	6377157
3L	962620	962954	../05_Mac	18.83302	962731
2R	18416495	18416840	../05_Mac	18.82937	18416680
2L	18124593	18124905	../05_Mac	18.82677	18124739
2L	2287724	2288089	../05_Mac	18.81553	2287920
2L	6886502	6886841	../05_Mac	18.75503	6886625
2L	21670419	21670881	../05_Mac	18.73715	21670631
3R	26316677	26316972	../05_Mac	18.73665	26316827
3R	8390242	8390536	../05_Mac	18.70197	8390408
2R	7447394	7447663	../05_Mac	18.70139	7447533
2R	20007248	20007554	../05_Mac	18.69701	20007395
2L	11307660	11307928	../05_Mac	18.67546	11307772
2R	3554650	3555063	../05_Mac	18.67546	3554896
X	18920806	18921067	../05_Mac	18.67546	18920900
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2R	8561479	8561846	../05_Mac	18.65944	8561667
3R	21365153	21365661	../05_Mac	18.63772	21365475
3R	8734470	8734783	../05_Mac	18.62773	8734651
3L	16271449	16271802	../05_Mac	18.61838	16271632
2R	10946068	10946453	../05_Mac	18.58446	10946235
3R	21898068	21898366	../05_Mac	18.56553	21898236
3R	22405827	22406111	../05_Mac	18.55488	22405964
2L	20297184	20297510	../05_Mac	18.53434	20297318
2L	15550238	15550635	../05_Mac	18.5297	15550401
3R	16805495	16805846	../05_Mac	18.5062	16805675
Y_mapped	13422	14011	../05_Mac	18.47536	13604
3R	9074472	9075278	../05_Mac	18.46133	9074636
3R	19796107	19796420	../05_Mac	18.46133	19796267
3R	5659764	5660095	../05_Mac	18.44444	5659917
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3L	20782642	20782955	../05_Mac	18.34793	20782800
3R	15290709	15290976	../05_Mac	18.30732	15290856
2R	9577843	9578217	../05_Mac	18.25273	9578059

2R	21213265	21213964	../05_Mac	28.76084	21213438
2L	3344816	3345461	../05_Mac	28.7397	3345000
2L	11475296	11475708	../05_Mac	28.73908	11475491
3L	7110469	7110894	../05_Mac	28.73908	7110727
3R	25717074	25717424	../05_Mac	28.73908	25717260
2R	16909631	16909985	../05_Mac	28.73438	16909816
3L	14555012	14555350	../05_Mac	28.73141	14555157
2R	23116054	23116465	../05_Mac	28.72092	23116234
3R	27668843	27669185	../05_Mac	28.72092	27668995
3L	9122458	9122864	../05_Mac	28.71523	9122628
2R	18444554	18444885	../05_Mac	28.70112	18444694
2R	17095885	17096310	../05_Mac	28.67449	17096055
2L	4138520	4139219	../05_Mac	28.67345	4139009
3R	26223499	26224400	../05_Mac	28.67345	26223735
2L	6596265	6596633	../05_Mac	28.65074	6596440
2R	3477809	3478294	../05_Mac	28.65074	3478037
2R	4956325	4957001	../05_Mac	28.65074	4956822
2R	10370751	10371094	../05_Mac	28.65074	10370923
3L	21768360	21768790	../05_Mac	28.65074	21768613
X	11228759	11229110	../05_Mac	28.65074	11228900
X	23343379	23343781	../05_Mac	28.65074	23343555
3R	24835261	24835893	../05_Mac	28.64897	24835535
2R	16713472	16713986	../05_Mac	28.64808	16713618
2L	16395538	16396136	../05_Mac	28.64631	16395907
3R	26729685	26730051	../05_Mac	28.64631	26729865
3L	20901628	20901970	../05_Mac	28.63769	20901779
2R	23608673	23609244	../05_Mac	28.61669	23608850
3L	20111502	20111845	../05_Mac	28.61594	20111684
2L	2092707	2093045	../05_Mac	28.6101	2092845
3R	31467362	31467697	../05_Mac	28.60769	31467531
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3R	10642821	10643265	../05_Mac	28.60068	10643060
3R	11521469	11521906	../05_Mac	28.59702	11521663
2R	18470418	18470866	../05_Mac	28.59238	18470613
3R	18186924	18187272	../05_Mac	28.57119	18187116
3L	10682794	10683385	../05_Mac	28.54549	10683180
2L	12449593	12450563	../05_Mac	28.53054	12450338
3L	4088077	4088476	../05_Mac	28.50104	4088272
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2L	7246547	7247035	../05_Mac	28.48217	7246717
2R	6743666	6744045	../05_Mac	28.47307	6743847
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3R	9870611	9871539	../05_Mac	28.45512	9871298
2L	12855805	12856302	../05_Mac	28.44378	12856081
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3L	6072233	6072618	../05_Mac	28.4389	6072421
3L	10865357	10865703	../05_Mac	28.4389	10865537
2R	12727073	12727397	../05_Mac	28.40466	12727258

3R	26621450	26621778	../05_Mac	18.24741	26621648
X	18259420	18259690	../05_Mac	18.24741	18259565
2R	13593668	13594002	../05_Mac	18.20905	13593885
2R	17033242	17034319	../05_Mac	18.19196	17033413
3L	17540855	17541177	../05_Mac	18.15755	17541037
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2L	11299964	11300255	../05_Mac	18.07989	11300118
2L	8593896	8594365	../05_Mac	18.04361	8594131
2.11E+14	1696	2302	../05_Mac	17.97932	1854
X	17702738	17703053	../05_Mac	17.90875	17702882
3L	5231701	5232029	../05_Mac	17.90662	5231882
3R	20445975	20446274	../05_Mac	17.87864	20446128
2R	25165440	25165722	../05_Mac	17.82515	25165555
2R	22348227	22349009	../05_Mac	17.82293	22348807
3L	10075723	10076044	../05_Mac	17.82293	10075898
2R	13928889	13929359	../05_Mac	17.80732	13929214
3R	16902522	16902825	../05_Mac	17.80157	16902651
3L	13248508	13248922	../05_Mac	17.7746	13248612
2L	10930293	10930902	../05_Mac	17.74554	10930638
2R	8900124	8900380	../05_Mac	17.72027	8900268
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2R	17527270	17527534	../05_Mac	17.66517	17527380
2R	19671001	19671261	../05_Mac	17.65831	19671124
3R	25616793	25617138	../05_Mac	17.62219	25616943
2L	19380670	19381140	../05_Mac	17.61995	19380884
3L	9995429	9995787	../05_Mac	17.57718	9995564
3R	4916579	4916944	../05_Mac	17.56195	4916789
X	1894338	1894629	../05_Mac	17.54851	1894485
2L	9148194	9148526	../05_Mac	17.54301	9148334
3R	8653537	8653823	../05_Mac	17.53352	8653691
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3L	6681687	6681992	../05_Mac	17.50949	6681797
3L	19228772	19229205	../05_Mac	17.47377	19228946
2R	24932147	24932466	../05_Mac	17.44725	24932285
2L	15325862	15326131	../05_Mac	17.40207	15325967
3L	12564403	12564680	../05_Mac	17.40207	12564513
3R	11486617	11486958	../05_Mac	17.40207	11486775
3R	29354289	29354639	../05_Mac	17.40207	29354427
2L	20438696	20438976	../05_Mac	17.3926	20438830
3L	15042918	15043265	../05_Mac	17.38275	15043109
2R	15607247	15607579	../05_Mac	17.36985	15607389
2L	40332	41237	../05_Mac	17.34404	40659
2L	21075539	21075839	../05_Mac	17.34404	21075665
3R	19087722	19088297	../05_Mac	17.34372	19087951
2L	7762442	7762715	../05_Mac	17.26646	7762591
2R	21991868	21992233	../05_Mac	17.26646	21992044
3L	3567555	3568030	../05_Mac	17.24861	3567703
3L	1729298	1729632	../05_Mac	17.16952	1729459
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2R	11922327	11922772	../05_Mac	28.35884	11922572
3L	9260976	9261350	../05_Mac	28.358	9261154
2R	21806986	21807383	../05_Mac	28.3424	21807157
2R	12928896	12929294	../05_Mac	28.33749	12929050
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3R	18833132	18833792	../05_Mac	28.32742	18833592
3R	4502974	4503323	../05_Mac	28.31277	4503142
3R	25427257	25427914	../05_Mac	28.29966	25427716
2L	21977895	21978241	../05_Mac	28.28536	21978060
3R	28659359	28660223	../05_Mac	28.28102	28659536
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2L	4713185	4713985	../05_Mac	28.22387	4713385
2R	3548705	3549433	../05_Mac	28.22387	3548902
3L	16240000	16240344	../05_Mac	28.22387	16240166
3R	13618852	13619297	../05_Mac	28.22387	13619006
3R	28496134	28496420	../05_Mac	28.22387	28496285
2L	13248726	13249241	../05_Mac	28.21424	13248949
3L	3013392	3013742	../05_Mac	28.21095	3013533
3L	12428039	12428421	../05_Mac	28.20965	12428183
2L	13709863	13710235	../05_Mac	28.20528	13710027
3R	23833232	23833666	../05_Mac	28.1876	23833477
3R	27498092	27498458	../05_Mac	28.17556	27498281
3L	3808454	3808833	../05_Mac	28.14925	3808623
2L	14080748	14081087	../05_Mac	28.14853	14080927
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3R	14542175	14542543	../05_Mac	28.11808	14542397
2R	7017560	7017957	../05_Mac	28.07983	7017767
2L	8634902	8635306	../05_Mac	28.07958	8635067
3L	512203	512550	../05_Mac	28.07688	512364
3R	13133387	13133880	../05_Mac	28.07688	13133622
2R	9410258	9410594	../05_Mac	28.02329	9410424
3R	31196086	31196417	../05_Mac	28.01551	31196252
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2L	14524413	14524844	../05_Mac	28.00594	14524596
2R	7253960	7254266	../05_Mac	27.9764	7254119
2R	8206635	8207317	../05_Mac	27.971	8206896
3R	12042307	12042804	../05_Mac	27.95524	12042513
2R	11258077	11258503	../05_Mac	27.95204	11258347
2R	6026910	6027446	../05_Mac	27.94875	6027184
2R	17406275	17406815	../05_Mac	27.94857	17406624
3L	9213363	9213742	../05_Mac	27.92244	9213518
3R	8543103	8543465	../05_Mac	27.91305	8543254
2L	4888031	4888349	../05_Mac	27.91299	4888167
3R	31696590	31696925	../05_Mac	27.89177	31696736
3L	11361042	11361438	../05_Mac	27.8913	11361153
3L	21417478	21417868	../05_Mac	27.87561	21417694
3L	18235402	18235743	../05_Mac	27.87086	18235566
3R	13622740	13623147	../05_Mac	27.87086	13622939

3R	15085692	15086043	../05_Mac	17.10913	15085879
3R	28680992	28681333	../05_Mac	17.10259	28681179
3R	4652102	4652413	../05_Mac	17.09645	4652235
3L	14843494	14843933	../05_Mac	17.0533	14843735
3L	14128832	14129236	../05_Mac	16.98924	14129025
2.11E+14	586	832	../05_Mac	16.98448	763
2.11E+14	582	866	../05_Mac	16.98448	683
2R	20460719	20461035	../05_Mac	16.98448	20460866
3R	23434929	23435356	../05_Mac	16.98448	23435111
X	9070013	9070336	../05_Mac	16.98448	9070178
X	20923294	20923539	../05_Mac	16.98448	20923398
3R	14013918	14014253	../05_Mac	16.98071	14014094
3L	15507840	15508132	../05_Mac	16.94868	15507945
3R	11949517	11949815	../05_Mac	16.90656	11949693
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2R	5803178	5803496	../05_Mac	16.83895	5803316
3L	10639848	10640214	../05_Mac	16.81246	10640002
2L	8137219	8137573	../05_Mac	16.79323	8137414
3L	14664958	14665285	../05_Mac	16.77786	14665150
3R	29963715	29964003	../05_Mac	16.77786	29963856
3R	14836320	14836676	../05_Mac	16.77443	14836487
2R	24036721	24037055	../05_Mac	16.7687	24036873
3L	7342929	7343254	../05_Mac	16.7655	7343112
2R	11115334	11115733	../05_Mac	16.74798	11115545
3R	23888180	23888482	../05_Mac	16.72891	23888356
X	1773754	1774111	../05_Mac	16.66524	1773942
3R	22487428	22487716	../05_Mac	16.65049	22487582
3R	25202786	25203135	../05_Mac	16.62371	25202999
3R	5320662	5321028	../05_Mac	16.61209	5320849
3L	21702073	21702447	../05_Mac	16.60347	21702307
3R	21355347	21355600	../05_Mac	16.58555	21355451
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2L	1677028	1677317	../05_Mac	16.57042	1677186
2L	19676065	19676431	../05_Mac	16.57042	19676231
X	1383574	1383832	../05_Mac	16.57042	1383691
X	15223470	15223738	../05_Mac	16.57042	15223636
X	18748195	18748498	../05_Mac	16.57042	18748324
2L	21898289	21899058	../05_Mac	16.5382	21898551
3L	13229912	13230187	../05_Mac	16.53658	13230034
3L	7251011	7251332	../05_Mac	16.53381	7251156
3L	15924895	15925480	../05_Mac	16.51547	15925051
3R	9824617	9825116	../05_Mac	16.51481	9824928
2R	15688859	15689185	../05_Mac	16.49779	15689007
3L	13032023	13032417	../05_Mac	16.4775	13032204
3R	14333685	14334020	../05_Mac	16.47117	14333849
3R	14926050	14926424	../05_Mac	16.40816	14926244
2R	7122854	7123130	../05_Mac	16.3546	7122974
2L	12579823	12580365	../05_Mac	16.263	12580130
2L	20504308	20504735	../05_Mac	16.263	20504485

3L	3483338	3483774	../05_Mac	27.86794	3483515
2R	24686235	24686653	../05_Mac	27.8425	24686402
3R	27289345	27289656	../05_Mac	27.80955	27289465
3L	21424635	21425029	../05_Mac	27.80943	21424860
3R	5930660	5930977	../05_Mac	27.79955	5930778
3R	28133709	28134063	../05_Mac	27.79955	28133906
3R	31633294	31633850	../05_Mac	27.79955	31633562
X	16741508	16741876	../05_Mac	27.79955	16741679
3R	28441199	28441503	../05_Mac	27.78477	28441346
2L	7262535	7262958	../05_Mac	27.77584	7262717
2L	19317720	19318018	../05_Mac	27.75967	19317847
2L	16505489	16505985	../05_Mac	27.75694	16505763
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2R	18475546	18476014	../05_Mac	27.73523	18475853
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2R	15312641	15313041	../05_Mac	27.7269	15312886
3R	19982178	19982995	../05_Mac	27.7263	19982356
2R	21881456	21881800	../05_Mac	27.69884	21881651
3L	4933160	4933865	../05_Mac	27.69356	4933676
2R	20072904	20073307	../05_Mac	27.65053	20073126
2L	21843302	21843782	../05_Mac	27.63039	21843490
3R	30775811	30776175	../05_Mac	27.61076	30775999
3R	16490639	16491318	../05_Mac	27.60034	16491029
2L	20036702	20037127	../05_Mac	27.59146	20036889
3L	21866646	21867086	../05_Mac	27.59146	21866833
3R	15561311	15561768	../05_Mac	27.55459	15561570
2R	17327007	17327378	../05_Mac	27.53726	17327176
3L	7417361	7417872	../05_Mac	27.53726	7417579
3L	6483242	6483678	../05_Mac	27.52683	6483422
2R	7087632	7087960	../05_Mac	27.51967	7087790
3L	21904197	21904810	../05_Mac	27.514	21904420
3L	9212532	9212870	../05_Mac	27.50299	9212705
2L	3620843	3621199	../05_Mac	27.47985	3621023
3R	4752646	4753119	../05_Mac	27.47108	4752824
3R	9476097	9476569	../05_Mac	27.46658	9476347
2R	21672752	21673084	../05_Mac	27.45632	21672931
2L	21081106	21081500	../05_Mac	27.43638	21081292
2L	14158849	14159251	../05_Mac	27.41255	14159064
3L	7576146	7576527	../05_Mac	27.40137	7576341
2R	9900108	9900527	../05_Mac	27.38874	9900345
2L	9887079	9887531	../05_Mac	27.38021	9887332
2L	18092146	18092621	../05_Mac	27.37744	18092413
2L	20477709	20477999	../05_Mac	27.37744	20477802
Unmapped	60348	60691	../05_Mac	27.37744	60545
2L	4561791	4562115	../05_Mac	27.36947	4561904
2R	20604818	20605146	../05_Mac	27.36826	20604978
3R	4727058	4727485	../05_Mac	27.36826	4727314
2R	20214366	20214690	../05_Mac	27.35925	20214536
3L	20101395	20101874	../05_Mac	27.35925	20101647

3R	19802078	19802519	../05_Mac	16.263	19802354
3R	11967471	11967820	../05_Mac	16.2487	11967660
2L	17661381	17661657	../05_Mac	16.2336	17661506
2R	7887810	7888128	../05_Mac	16.22017	7887997
2.11E+14	528	789	../05_Mac	16.21119	658
2L	8862600	8862954	../05_Mac	16.20778	8862757
3L	17253755	17254094	../05_Mac	16.16883	17253869
2L	1872453	1872792	../05_Mac	16.15991	1872661
2L	18262465	18262738	../05_Mac	16.15991	18262619
2R	12213922	12214211	../05_Mac	16.15991	12214087
3L	5089299	5089583	../05_Mac	16.15991	5089412
3R	11344336	11344809	../05_Mac	16.15991	11344589
3R	24456035	24456382	../05_Mac	16.15991	24456198
2L	21804130	21804566	../05_Mac	16.13231	21804404
3L	8175811	8176203	../05_Mac	16.10707	8175981
3R	19966912	19967224	../05_Mac	16.08493	19967063
3R	18052834	18053189	../05_Mac	16.03832	18053013
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3L	13154222	13154533	../05_Mac	15.96463	13154384
3R	12337527	12337798	../05_Mac	15.96419	12337638
2R	22957301	22958029	../05_Mac	15.94569	22957477
2R	7942359	7942675	../05_Mac	15.90019	7942538
3R	26255142	26255465	../05_Mac	15.87302	26255332
2L	8976897	8977238	../05_Mac	15.7983	8977073
3R	12152042	12152360	../05_Mac	15.76379	12152190
3L	3078651	3079511	../05_Mac	15.7567	3079046
2R	23786496	23786815	../05_Mac	15.75309	23786650
3R	29295430	29295721	../05_Mac	15.75309	29295542
X	4875466	4875765	../05_Mac	15.75309	4875613
2R	7812888	7813229	../05_Mac	15.75307	7813039
3R	4952639	4952891	../05_Mac	15.72064	4952721
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3R	26176792	26177287	../05_Mac	15.61227	26177014
3L	17915055	17915471	../05_Mac	15.58908	17915322
3R	4777970	4778218	../05_Mac	15.57617	4778082
2R	10856942	10857208	../05_Mac	15.55228	10857063
2R	9774134	9774427	../05_Mac	15.41761	9774282
X	7936366	7936671	../05_Mac	15.41331	7936509
3L	9703347	9703658	../05_Mac	15.36019	9703510
2L	2672892	2673264	../05_Mac	15.35038	2673114
2L	17707148	17707441	../05_Mac	15.35038	17707289
2R	11503388	11503638	../05_Mac	15.35038	11503524
3L	5501313	5501661	../05_Mac	15.35038	5501434
3L	22225709	22226029	../05_Mac	15.35038	22225865
X	8387619	8387940	../05_Mac	15.35038	8387773
X	21251062	21251315	../05_Mac	15.35038	21251187
3L	4110268	4110630	../05_Mac	15.33654	4110483

2L	2658095	2658492	../05_Mac	27.34959	2658251
2L	1279797	1280092	../05_Mac	27.34068	1279932
2L	2597421	2597933	../05_Mac	27.33767	2597699
2R	16394705	16395024	../05_Mac	27.3247	16394875
X	23347938	23348161	../05_Mac	27.3247	23348005
3R	14660566	14660990	../05_Mac	27.26699	14660763
3R	13327482	13327906	../05_Mac	27.26628	13327662
2L	18318619	18319076	../05_Mac	27.26495	18318866
3L	9153665	9154142	../05_Mac	27.25706	9153837
2L	15395136	15395978	../05_Mac	27.21528	15395787
2L	21799513	21799861	../05_Mac	27.21528	21799685
3L	16243136	16243598	../05_Mac	27.19502	16243334
3R	6577787	6578220	../05_Mac	27.19502	6577994
2R	20258230	20258548	../05_Mac	27.18593	20258380
3L	14415125	14415493	../05_Mac	27.18387	14415276
2L	13951023	13951436	../05_Mac	27.15788	13951230
2R	9291215	9291516	../05_Mac	27.15447	9291359
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3R	11653733	11654102	../05_Mac	27.1179	11653917
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2R	15176520	15177289	../05_Mac	27.02764	15176734
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2L	2335117	2335432	../05_Mac	26.96604	2335268
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2L	19854780	19855422	../05_Mac	26.95769	19855248
2R	23311852	23312217	../05_Mac	26.95769	23312051
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X	3455115	3455402	../05_Mac	26.95769	3455271
X	22593292	22593994	../05_Mac	26.95769	22593835
2R	14319390	14319873	../05_Mac	26.93407	14319582
2R	23793936	23794404	../05_Mac	26.93407	23794165
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2L	10793418	10793771	../05_Mac	15.1007	10793601
2R	21108048	21108340	../05_Mac	15.00891	21108184
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2L	16201853	16202169	../05_Mac	14.95113	16202027
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3R	20371690	20371987	../05_Mac	14.95113	20371810
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3L	17040567	17040881	../05_Mac	14.88426	17040726
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2R	13808649	13809025	../05_Mac	14.71948	13808832
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3R	12419248	12419497	../05_Mac	14.58906	12419398
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2L	21291931	21292280	../05_Mac	14.55913	21292124
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3R	7400860	7401143	../05_Mac	14.55582	7401003
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3R	25742798	25743262	../05_Mac	14.36946	25743087
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3R	7921898	7922170	../05_Mac	14.31087	7922021
3R	5086692	5086942	../05_Mac	14.25938	5086832
X	488167	488516	../05_Mac	14.25214	488330
X	528143	528506	../05_Mac	14.25214	528315
2R	17576158	17576457	../05_Mac	14.23956	17576331
2R	11085942	11086440	../05_Mac	14.21038	11086205

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3R	21514932	21515427	../05_Mac	26.91104	21515172
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2R	18105852	18106193	../05_Mac	26.88252	18106024
3L	10741093	10741407	../05_Mac	26.8622	10741261
3R	29166420	29166757	../05_Mac	26.84367	29166605
3L	17467282	17467632	../05_Mac	26.83202	17467491
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2R	10188219	10188596	../05_Mac	26.80561	10188407
3R	5553339	5553722	../05_Mac	26.80315	5553524
3R	20668857	20669332	../05_Mac	26.79124	20669164
3L	5578233	5578721	../05_Mac	26.78282	5578494
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3R	23396948	23397252	../05_Mac	26.75106	23397076
3R	10588104	10588531	../05_Mac	26.75074	10588349
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3L	12547204	12547611	../05_Mac	26.72762	12547389
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2R	8502380	8502811	../05_Mac	26.72109	8502567
2L	1430768	1431105	../05_Mac	26.69699	1430917
2R	18431807	18432170	../05_Mac	26.69278	18431940
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2L	15572950	15573449	../05_Mac	26.63216	15573202
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2L	16744903	16745237	../05_Mac	26.61903	16745051
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3R	11467929	11468274	../05_Mac	26.61602	11468119
2R	12373770	12374166	../05_Mac	26.60731	12373988
2L	18384683	18385022	../05_Mac	26.60404	18384850
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2L	1825233	1825642	../05_Mac	26.58518	1825451
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3R	7555363	7555718	../05_Mac	26.58518	7555559
3R	17375321	17375621	../05_Mac	26.56921	17375452
2L	16452752	16453123	../05_Mac	26.55597	16452893
2L	755652	756146	../05_Mac	26.54079	755995
2R	4938049	4938403	../05_Mac	26.54079	4938206
2R	9366156	9366546	../05_Mac	26.54079	9366314
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2R	1776364	1776678	../05_Mac	14.16475	1776498
3R	22819044	22819360	../05_Mac	14.16475	22819228
3R	27407600	27407826	../05_Mac	14.16475	27407678
X	14486661	14486890	../05_Mac	14.16475	14486782
3R	26701360	26701650	../05_Mac	14.16257	26701505
3R	23650621	23650925	../05_Mac	14.07945	23650764
3L	9863446	9863761	../05_Mac	14.06721	9863591
2R	24138575	24138926	../05_Mac	14.0105	24138743
2R	6682182	6682601	../05_Mac	13.99595	6682338
3R	16139454	16139813	../05_Mac	13.9825	16139648
3L	9510890	9511612	../05_Mac	13.92667	9511367
2R	7944339	7944723	../05_Mac	13.88459	7944484
3R	14752818	14753049	../05_Mac	13.88459	14752961
2L	22311167	22311583	../05_Mac	13.82548	22311392
3R	10372038	10372247	../05_Mac	13.82258	10372175
2R	8216561	8216869	../05_Mac	13.81728	8216707
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2L	8060014	8060302	../05_Mac	13.80375	8060162
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3L	6385697	6386150	../05_Mac	13.77743	6385862
3R	27659001	27659269	../05_Mac	13.76071	27659175
2R	15655626	15655957	../05_Mac	13.7337	15655764
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X	7734502	7734935	../05_Mac	13.69981	7734713
3L	22759884	22760450	../05_Mac	13.63562	22760299
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3R	9483896	9484201	../05_Mac	13.44003	9484039
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3L	23225332	23225844	../05_Mac	13.39362	23225654
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X	17808264	17808564	../05_Mac	13.39362	17808419
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2R	23316669	23317121	../05_Mac	26.54079	23316899
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3L	13339739	13340317	../05_Mac	26.54079	13339934
3R	12165514	12165804	../05_Mac	26.54079	12165664
3R	26301461	26301828	../05_Mac	26.54079	26301676
X	5175465	5175802	../05_Mac	26.54079	5175635
X	20915412	20915797	../05_Mac	26.54079	20915602
2L	545758	546189	../05_Mac	26.52532	545974
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3R	16265053	16265357	../05_Mac	26.50977	16265237
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2R	22269427	22269751	../05_Mac	26.39746	22269604
3R	16185595	16186000	../05_Mac	26.36954	16185788
2R	5800885	5801599	../05_Mac	26.36609	5801394
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3R	30311759	30312064	../05_Mac	26.19491	30311916
2L	9384550	9384883	../05_Mac	26.19212	9384722
3L	19671407	19671745	../05_Mac	26.18575	19671560
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3R	20360433	20360794	../05_Mac	26.13545	20360620
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2L	6725676	6726007	../05_Mac	13.08663	6725836
3L	22003827	22004102	../05_Mac	13.06468	22003920
3R	17429595	17429906	../05_Mac	13.03668	17429720
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2.11E+14	976	1238	../05_Mac	13.01392	1072
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2R	19521275	19521682	../05_Mac	13.01392	19521557
3R	13849782	13850055	../05_Mac	13.01392	13849883
3R	28138906	28139179	../05_Mac	13.01392	28139034
2R	14642234	14642570	../05_Mac	12.94475	14642389
2L	9922001	9922258	../05_Mac	12.93279	9922092
2R	19696425	19696926	../05_Mac	12.87714	19696732
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2R	12754838	12755152	../05_Mac	12.84056	12755000
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X	20525016	20525245	../05_Mac	12.78069	20525122
3L	22114149	22114437	../05_Mac	12.75824	22114293
3L	19783207	19783596	../05_Mac	12.72496	19783342
2L	13456980	13457312	../05_Mac	12.6634	13457135
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2R	15458544	15459033	../05_Mac	12.63829	15458876
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2R	20034993	20035250	../05_Mac	12.57017	20035111
3R	5031072	5031366	../05_Mac	12.56172	5031220
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3R	25811900	25812126	../05_Mac	12.52448	25812050
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2L	14529493	14530015	../05_Mac	12.37393	14529690
2R	10827239	10827559	../05_Mac	12.36419	10827373
2L	3567698	3567937	../05_Mac	12.3603	3567803
2R	20210398	20210854	../05_Mac	12.30588	20210535
3R	29912437	29912735	../05_Mac	12.29322	29912591
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2L	8626914	8627332	../05_Mac	26.11553	8627057
3L	1837379	1837781	../05_Mac	26.11553	1837585
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3L	4008266	4008772	../05_Mac	26.05638	4008574
3R	6770279	6770785	../05_Mac	25.99795	6770454
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2R	2784969	2785377	../05_Mac	25.99666	2785156
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2R	19980686	19981166	../05_Mac	25.95669	19980938
2L	18610945	18611271	../05_Mac	25.95635	18611141
3R	26420698	26421428	../05_Mac	25.95256	26421230
3R	16052243	16052659	../05_Mac	25.93311	16052417
3L	18364181	18364534	../05_Mac	25.93132	18364371
3R	22639178	22639761	../05_Mac	25.93132	22639597
2L	12135064	12135373	../05_Mac	25.91843	12135238
2L	14017547	14017863	../05_Mac	25.89959	14017697
3L	7811650	7812016	../05_Mac	25.8854	7811826
3R	19144746	19145113	../05_Mac	25.86763	19144919
2R	12504077	12504529	../05_Mac	25.85804	12504346
3R	20502261	20502675	../05_Mac	25.85077	20502475
3R	28277464	28277880	../05_Mac	25.85077	28277631
2R	18613684	18614005	../05_Mac	25.84649	18613816
2L	9657564	9658027	../05_Mac	25.84304	9657840
2L	8902602	8903265	../05_Mac	25.83582	8903070
2L	1048760	1049424	../05_Mac	25.83122	1049277
3R	18768794	18769134	../05_Mac	25.83122	18768974
3L	9919167	9919499	../05_Mac	25.81341	9919332
2L	19383514	19383885	../05_Mac	25.80438	19383677
2R	8211188	8211482	../05_Mac	25.79559	8211330
3R	12025269	12025606	../05_Mac	25.79559	12025464
3L	21481071	21481343	../05_Mac	25.77806	21481217
3R	6858853	6859175	../05_Mac	25.77806	6859022
3R	17601663	17602086	../05_Mac	25.76433	17601830
2R	10004057	10004403	../05_Mac	25.76142	10004208
3R	16665909	16666321	../05_Mac	25.72956	16666099
3L	7744337	7744676	../05_Mac	25.71443	7744480
2L	10042375	10042744	../05_Mac	25.71364	10042614
2L	12591203	12591637	../05_Mac	25.71364	12591395
3L	9146082	9146391	../05_Mac	25.71364	9146272

X	9888185	9888486	../05_Mac	12.2665	9888362
3R	20295543	20295749	../05_Mac	12.24235	20295621
2L	401021	401257	../05_Mac	12.23243	401143
3R	20024456	20024692	../05_Mac	12.18945	20024581
3R	4862213	4862542	../05_Mac	12.11889	4862336
2R	13614569	13614901	../05_Mac	12.10085	13614710
3L	6310629	6310976	../05_Mac	12.10085	6310799
3R	31860316	31860961	../05_Mac	12.0864	31860686
3L	3052447	3052776	../05_Mac	12.07286	3052658
2L	18947757	18948123	../05_Mac	12.07138	18947931
3L	14611937	14612272	../05_Mac	12.07138	14612153
3L	219143	219445	../05_Mac	12.05211	219273
3R	5393874	5394228	../05_Mac	12.05211	5394072
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2L	7211157	7211481	../05_Mac	11.95455	7211310
2L	3805676	3805947	../05_Mac	11.92376	3805795
3R	19177467	19177723	../05_Mac	11.92178	19177603
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2R	22979814	22980073	../05_Mac	11.89899	22979980
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3L	18164763	18165067	../05_Mac	11.89899	18164878
3R	20337790	20338074	../05_Mac	11.89899	20337934
3R	28934349	28934670	../05_Mac	11.89899	28934489
X	12139541	12139932	../05_Mac	11.89899	12139701
2L	17627130	17627957	../05_Mac	11.89581	17627302
2L	22019688	22020039	../05_Mac	11.84652	22019847
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3L	12099274	12099685	../05_Mac	11.79509	12099519
3L	22251830	22252207	../05_Mac	11.78297	22252032
3L	22267224	22267544	../05_Mac	11.76904	22267430
2R	12210409	12211092	../05_Mac	11.74898	12210619
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3R	9564227	9564459	../05_Mac	11.6139	9564381
X	4635481	4635722	../05_Mac	11.60826	4635637
2R	11080588	11080952	../05_Mac	11.60408	11080781
2L	19885788	19886142	../05_Mac	11.56896	19885959
2R	9583757	9584048	../05_Mac	11.54421	9583880
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2R	7704500	7705066	../05_Mac	11.53563	7704635
3L	12995132	12995387	../05_Mac	11.53563	12995291
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2R	18548318	18548524	../05_Mac	11.37073	18548403
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3R	5523016	5523298	../05_Mac	11.22261	5523188
2L	6249453	6249719	../05_Mac	11.17648	6249583
2R	23141353	23141703	../05_Mac	11.17648	23141459

3L	14349069	14349378	../05_Mac	25.71364	14349231
3L	22571020	22571458	../05_Mac	25.71364	22571237
3R	1995336	1995616	../05_Mac	25.71364	1995491
3R	28275642	28276043	../05_Mac	25.71364	28275802
X	11533286	11533640	../05_Mac	25.71364	11533477
X	16860910	16861252	../05_Mac	25.71364	16861066
2R	12604507	12604869	../05_Mac	25.69765	12604699
3R	20609926	20610593	../05_Mac	25.68692	20610100
2L	11373642	11373981	../05_Mac	25.68442	11373799
2L	14561576	14562092	../05_Mac	25.68442	14561809
3R	19362168	19362405	../05_Mac	25.6628	19362290
3L	5187867	5188295	../05_Mac	25.66098	5188096
3L	13319909	13320301	../05_Mac	25.65561	13320170
2R	13314256	13314663	../05_Mac	25.60794	13314448
3R	6701163	6701590	../05_Mac	25.60794	6701356
3L	11784587	11785392	../05_Mac	25.60545	11784788
3R	6252353	6253114	../05_Mac	25.5987	6252947
3R	9854248	9854815	../05_Mac	25.59524	9854633
3R	31202007	31202307	../05_Mac	25.59524	31202165
2L	7711856	7712253	../05_Mac	25.58813	7712009
2L	7897590	7897923	../05_Mac	25.58479	7897778
3R	5493054	5493665	../05_Mac	25.57926	5493220
3L	21357781	21358450	../05_Mac	25.56608	21358288
2L	4324108	4324666	../05_Mac	25.53505	4324379
2L	300833	301228	../05_Mac	25.53257	301047
2R	6602393	6602710	../05_Mac	25.53075	6602558
2L	19302535	19303075	../05_Mac	25.5178	19302855
3L	13457497	13457881	../05_Mac	25.5178	13457685
2R	10743384	10743836	../05_Mac	25.51614	10743578
3L	1878677	1879030	../05_Mac	25.50874	1878815
3R	19639095	19639483	../05_Mac	25.48395	19639272
2R	24918548	24918891	../05_Mac	25.4805	24918736
3L	9311411	9311949	../05_Mac	25.46981	9311677
3R	6194681	6195117	../05_Mac	25.46981	6194891
2L	11626797	11627124	../05_Mac	25.45496	11626968
3L	27147246	27147664	../05_Mac	25.45496	27147478
3R	13954010	13954396	../05_Mac	25.45496	13954206
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3R	23571586	23571927	../05_Mac	25.45496	23571750
2L	9360306	9360886	../05_Mac	25.44501	9360554
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2L	10008289	10008667	../05_Mac	25.41247	10008495
2L	15323036	15323571	../05_Mac	25.4057	15323354
2R	17234497	17234924	../05_Mac	25.4057	17234709
2L	11571244	11571563	../05_Mac	25.40045	11571407
2L	5822422	5823300	../05_Mac	25.39812	5823104
3R	27334906	27335630	../05_Mac	25.39672	27335462
3R	6414232	6414665	../05_Mac	25.37804	6414404



3L	4861138	4861456	../05_Mac	11.17648	4861267
3L	9318266	9318534	../05_Mac	11.1724	9318366
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3L	16711661	16712203	../05_Mac	11.11557	16712090
3R	26531527	26531838	../05_Mac	11.0906	26531700
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3R	12635037	12635385	../05_Mac	11.02776	12635240
2L	609008	609276	../05_Mac	11.00338	609136
3R	24388280	24388542	../05_Mac	10.9772	24388430
3L	8479822	8480099	../05_Mac	10.88947	8479993
2R	8994592	8994851	../05_Mac	10.88929	8994691
3L	13268113	13268476	../05_Mac	10.85985	13268264
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3L	12498176	12498521	../05_Mac	10.84816	12498355
3L	13988328	13988895	../05_Mac	10.82183	13988715
2R	19675957	19676358	../05_Mac	10.76624	19676180
3L	3425428	3425774	../05_Mac	10.72295	3425622
2R	15474642	15475284	../05_Mac	10.69551	15474912
2L	15263100	15263505	../05_Mac	10.69004	15263368
3L	23346212	23346796	../05_Mac	10.66886	23346391
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2R	9585607	9585864	../05_Mac	10.65435	9585746
2L	3399795	3400074	../05_Mac	10.64557	3399905
3R	25970292	25970776	../05_Mac	10.64537	25970583
3L	20219209	20219500	../05_Mac	10.59748	20219339
3R	17370876	17371128	../05_Mac	10.59123	17371001
X	5907976	5908206	../05_Mac	10.56297	5908095
3R	8190677	8190995	../05_Mac	10.50972	8190849
2R	17185631	17185925	../05_Mac	10.49493	17185801
2L	3490978	3491264	../05_Mac	10.473	3491143
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2L	784223	784556	../05_Mac	10.47074	784404
3R	26625711	26625910	../05_Mac	10.47074	26625790
3R	27168761	27169030	../05_Mac	10.47074	27168892
2R	14625710	14626023	../05_Mac	10.45445	14625839
2L	9797311	9797595	../05_Mac	10.45144	9797416
2L	13633054	13633420	../05_Mac	10.30559	13633231
2R	17464008	17464308	../05_Mac	10.27518	17464144
2R	13671656	13672117	../05_Mac	10.27371	13671833
3R	29980049	29980298	../05_Mac	10.25582	29980177
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3R	6857584	6857825	../05_Mac	10.22152	6857695
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2L	16289671	16289875	../05_Mac	10.1708	16289791
X	377541	377794	../05_Mac	10.12389	377684

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3R	6903452	6903786	../05_Mac	25.37147	6903617
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3R	24402284	24402643	../05_Mac	25.31182	24402481
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2L	1451340	1451636	../05_Mac	25.30383	1451464
2L	21936673	21936981	../05_Mac	25.30383	21936823
2R	3174750	3175083	../05_Mac	25.30383	3174934
2R	14656173	14656519	../05_Mac	25.30383	14656334
2R	20444254	20444756	../05_Mac	25.30383	20444515
3L	15168723	15169065	../05_Mac	25.30383	15168872
3R	6522737	6523078	../05_Mac	25.30383	6522921
3R	13526788	13527220	../05_Mac	25.30383	13526924
2L	16593820	16594093	../05_Mac	25.2971	16593946
3R	22286758	22287102	../05_Mac	25.29638	22286934
3L	5893217	5893575	../05_Mac	25.28387	5893402
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3R	7598193	7598584	../05_Mac	25.25349	7598390
3R	31761598	31762034	../05_Mac	25.25349	31761773
2L	12697672	12698007	../05_Mac	25.24017	12697847
3L	11584494	11584924	../05_Mac	25.23558	11584691
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3R	16495058	16495442	../05_Mac	25.15053	16495244
3L	14746446	14747099	../05_Mac	25.14961	14746840
2R	5894290	5894858	../05_Mac	25.14898	5894681
2L	18098767	18099206	../05_Mac	25.13435	18098938
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2L	5391787	5392159	../05_Mac	25.10748	5391979
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2L	17758170	17758569	../05_Mac	25.08323	17758374
3R	31477393	31477855	../05_Mac	25.04074	31477695
3L	19674090	19674526	../05_Mac	25.0203	19674242
2R	9282051	9282346	../05_Mac	25.00642	9282204
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3R	21006637	21006955	../05_Mac	24.99585	21006813
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2R	9099418	9099983	../05_Mac	24.98229	9099601
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2L	13538449	13538881	../05_Mac	24.97606	13538660
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2L	6194114	6194622	../05_Mac	24.96169	6194438
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3L	6382293	6382744	../05_Mac	24.94411	6382516

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3R	24977184	24977508	../05_Mac	10.08224	24977417

2R	9590116	9590412	../05_Mac	24.941	9590271
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3L	8849758	8850113	../05_Mac	24.91216	8849918
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2L	614240	614555	../05_Mac	24.89635	614409
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2R	20908442	20909179	../05_Mac	24.89635	20909007
3L	12604908	12605376	../05_Mac	24.89635	12605093
3L	22632349	22632793	../05_Mac	24.89635	22632605
3R	28252913	28253255	../05_Mac	24.89635	28253041
3R	28569741	28570061	../05_Mac	24.89635	28569908
3R	31982674	31982955	../05_Mac	24.89635	31982865
Unmapped	57336	57661	../05_Mac	24.89635	57471
X	21469709	21470011	../05_Mac	24.89635	21469851
X	21563556	21563830	../05_Mac	24.89635	21563705
2L	3505820	3506414	../05_Mac	24.88454	3506227
3R	21070851	21071204	../05_Mac	24.88454	21071044
3R	26529619	26529967	../05_Mac	24.88097	26529792
2R	20488703	20489680	../05_Mac	24.87756	20488947
3L	8972357	8972924	../05_Mac	24.86136	8972746
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2L	12613169	12613455	../05_Mac	24.8466	12613284
3R	4840846	4841139	../05_Mac	24.8466	4840979
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3R	22395663	22396038	../05_Mac	24.84214	22395851
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3R	11742671	11743021	../05_Mac	24.73193	11742821
2R	12688337	12688651	../05_Mac	24.72738	12688492
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2L	11054566	11054929	../05_Mac	24.67849	11054745
3R	31271175	31272173	../05_Mac	24.67683	31271877
3L	20100124	20100482	../05_Mac	24.6734	20100310
3R	22280220	22280575	../05_Mac	24.6485	22280383
3L	10006775	10007121	../05_Mac	24.6446	10006956
3R	14173704	14174057	../05_Mac	24.6446	14173875
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3L	11951621	11951971	../05_Mac	24.62702	11951803
3R	17835313	17835696	../05_Mac	24.62702	17835489
3L	22176389	22177338	../05_Mac	24.59166	22176672

3R	16594017	16594524	../05_Mac	24.58795	16594197
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3L	6861806	6862425	../05_Mac	24.56025	6862275
2R	8769098	8769538	../05_Mac	24.52662	8769279
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2R	11875381	11875741	../05_Mac	24.5208	11875546
2R	12974814	12975973	../05_Mac	24.5208	12975753
2R	5247684	5248060	../05_Mac	24.51428	5247897
3L	19249784	19250107	../05_Mac	24.5103	19249938
3L	12944202	12944733	../05_Mac	24.50802	12944472
2L	17279936	17280522	../05_Mac	24.50583	17280235
2R	11527812	11528591	../05_Mac	24.49648	11528348
2L	20047905	20048303	../05_Mac	24.49274	20048084
2L	962012	962467	../05_Mac	24.49131	962217
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2L	18908693	18909100	../05_Mac	24.49131	18908866
2R	6437028	6437345	../05_Mac	24.49131	6437178
2R	24274234	24274776	../05_Mac	24.49131	24274636
3L	3915539	3915765	../05_Mac	24.49131	3915673
3L	14857759	14858076	../05_Mac	24.49131	14857935
3R	1873762	1874078	../05_Mac	24.49131	1873930
3R	4615101	4615531	../05_Mac	24.49131	4615231
3R	6716706	6717027	../05_Mac	24.49131	6716886
3R	13164058	13164374	../05_Mac	24.49131	13164211
3R	15153935	15154695	../05_Mac	24.49131	15154505
3R	28260990	28261399	../05_Mac	24.49131	28261209
X	2418174	2418590	../05_Mac	24.49131	2418364
2R	18030801	18031079	../05_Mac	24.49095	18030954
2R	20267842	20268161	../05_Mac	24.48849	20268010
3R	8971392	8971769	../05_Mac	24.48849	8971591
3L	11920221	11920971	../05_Mac	24.47558	11920379
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3L	13238667	13238926	../05_Mac	24.45376	13238785
3L	11071687	11072075	../05_Mac	24.44289	11071903
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3L	16176254	16176544	../05_Mac	24.42763	16176411
3R	23917909	23918259	../05_Mac	24.4229	23918102
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2L	23162381	23162702	../05_Mac	24.4041	23162572
3R	19558626	19558954	../05_Mac	24.4041	19558768
2R	18743852	18744658	../05_Mac	24.39194	18744046
3R	27004736	27005427	../05_Mac	24.37895	27004919
3R	19886509	19887084	../05_Mac	24.36126	19886718
2L	5640094	5640460	../05_Mac	24.354	5640286
3R	12282409	12282755	../05_Mac	24.354	12282567
3R	12287182	12287484	../05_Mac	24.354	12287299
2R	20093116	20093444	../05_Mac	24.34783	20093274
3R	23657330	23657611	../05_Mac	24.34227	23657491

2L	18224494	18224921	../05_Mac	24.30554	18224660
4	1260451	1261027	../05_Mac	24.30201	1260724
3L	22859842	22860153	../05_Mac	24.30091	22859978
3R	31904975	31905410	../05_Mac	24.29841	31905231
2L	17720117	17720542	../05_Mac	24.28195	17720389
3R	12203218	12203615	../05_Mac	24.28188	12203442
2R	8734642	8735042	../05_Mac	24.2816	8734823
2R	22547827	22548213	../05_Mac	24.26289	22548064
2L	17001602	17002042	../05_Mac	24.2417	17001762
2R	8981745	8982173	../05_Mac	24.2363	8981937
2L	3735131	3735524	../05_Mac	24.22593	3735248
3L	18789431	18790048	../05_Mac	24.22129	18789610
3L	523016	523388	../05_Mac	24.21479	523196
3L	22897653	22898055	../05_Mac	24.20918	22897941
3R	12373252	12373640	../05_Mac	24.20149	12373384
2R	7837726	7838412	../05_Mac	24.19821	7838224
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X	17752460	17752837	../05_Mac	24.13022	17752652
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3L	15731399	15731702	../05_Mac	24.11662	15731570
2R	9169993	9170321	../05_Mac	24.11539	9170138
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3L	18783393	18783665	../05_Mac	24.09389	18783550
2L	10672744	10673088	../05_Mac	24.08883	10672924
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2L	17164525	17164908	../05_Mac	24.08883	17164717
2L	18050014	18050437	../05_Mac	24.08883	18050188
2R	8002660	8002957	../05_Mac	24.08883	8002834
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3L	22601937	22602358	../05_Mac	24.08883	22602094
3R	11037707	11038050	../05_Mac	24.08883	11037885
3R	11284366	11284704	../05_Mac	24.08883	11284536
X	4860074	4860368	../05_Mac	24.08883	4860201
X	5575366	5575991	../05_Mac	24.08883	5575868
X	10726097	10726392	../05_Mac	24.08883	10726247
3L	20447529	20447863	../05_Mac	24.07671	20447686
2R	22294568	22294966	../05_Mac	24.07573	22294727
3L	18223198	18223548	../05_Mac	24.05543	18223415
3R	26010953	26011264	../05_Mac	24.0237	26011130
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3R	11712820	11713143	../05_Mac	23.9962	11712960
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3L	4016162	4016539	../05_Mac	23.97043	4016370
3L	21043322	21043603	../05_Mac	23.96106	21043458
2R	26653399	26653733	../05_Mac	23.96106	26653562
2L	1902690	1903194	../05_Mac	23.95856	1902886
3L	18682163	18682792	../05_Mac	23.95762	18682569
2R	8511781	8512129	../05_Mac	23.94504	8511974
3R	14400230	14400637	../05_Mac	23.93019	14400378
2L	12834669	12834914	../05_Mac	23.92015	12834776
3R	7415558	7415954	../05_Mac	23.92015	7415775
3R	26812274	26812815	../05_Mac	23.90104	26812436
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2R	11757698	11758298	../05_Mac	23.88751	11757919
2L	16260435	16260985	../05_Mac	23.85024	16260803
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3L	3710048	3710392	../05_Mac	23.83131	3710223
2R	8266652	8267031	../05_Mac	23.82457	8266861
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3R	10106832	10107225	../05_Mac	23.80908	10107018
2L	11041403	11041780	../05_Mac	23.80142	11041581
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2R	20290395	20290689	../05_Mac	23.78606	20290536
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3R	15393309	15393652	../05_Mac	23.75769	15393470
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2L	20367335	20367716	../05_Mac	23.72365	20367570
3R	14342696	14343010	../05_Mac	23.71943	14342819
3R	24440385	24440677	../05_Mac	23.71167	24440551
2L	15548935	15549193	../05_Mac	23.69531	15549055
2L	2703966	2704326	../05_Mac	23.68869	2704155
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2L	17702181	17702486	../05_Mac	23.68869	17702335
3L	26538293	26538553	../05_Mac	23.68869	26538424
3R	5989658	5990272	../05_Mac	23.68869	5990101
3R	29651315	29651649	../05_Mac	23.68869	29651479
X	2559997	2560563	../05_Mac	23.68869	2560285

2R	6224744	6225112	../05_Mac	23.68823	6224916
3L	22673299	22673698	../05_Mac	23.67047	22673438
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3R	13811550	13811932	../05_Mac	23.64656	13811751
2L	6407108	6407461	../05_Mac	23.64308	6407285
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3R	6232774	6233187	../05_Mac	23.64308	6232942
3R	10399146	10399493	../05_Mac	23.61178	10399307
4	3081	3785	../05_Mac	23.59349	3533
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3R	19554860	19555221	../05_Mac	23.58929	19555040
X	14226771	14227085	../05_Mac	23.58929	14226905
3R	17317054	17317422	../05_Mac	23.5831	17317229
3L	3232108	3232502	../05_Mac	23.57677	3232332
2L	14522534	14522874	../05_Mac	23.56287	14522695
2L	17616687	17617143	../05_Mac	23.56287	17616880
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3R	20640975	20641518	../05_Mac	23.52891	20641242
3L	16896316	16896704	../05_Mac	23.52122	16896494
3R	20518171	20518514	../05_Mac	23.51142	20518321
3L	16355070	16355368	../05_Mac	23.50309	16355229
2L	16599686	16600085	../05_Mac	23.49152	16599817
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3R	21619728	21620185	../05_Mac	23.46187	21619967
2L	2670374	2670720	../05_Mac	23.46159	2670553
3L	16167525	16167901	../05_Mac	23.45547	16167734
3R	16527035	16527376	../05_Mac	23.43826	16527229
2L	8004626	8004986	../05_Mac	23.43824	8004807
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3R	27684497	27684769	../05_Mac	23.42515	27684655
3R	12386080	12386518	../05_Mac	23.42366	12386351
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3L	13288970	13289419	../05_Mac	23.41794	13289203
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3R	25650672	25651224	../05_Mac	23.39698	25651021
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3L	15703251	15703692	../05_Mac	23.3559	15703503
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3L	14833414	14833828	../05_Mac	23.32302	14833583
2R	9714660	9714957	../05_Mac	23.3201	9714785
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3L	17973063	17973396	../05_Mac	23.315	17973231
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2R	5825927	5826298	../05_Mac	23.29107	5826133
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2L	12032957	12033262	../05_Mac	23.28082	12033115
2R	22320387	22320701	../05_Mac	23.27583	22320551
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2L	2083570	2083971	../05_Mac	23.22801	2083792
2R	18339127	18339437	../05_Mac	23.20781	18339261
3L	3044649	3044991	../05_Mac	23.19937	3044824
2L	7624477	7625141	../05_Mac	23.19587	7624848
3L	17509423	17509814	../05_Mac	23.19587	17509630
2R	22909457	22909788	../05_Mac	23.19551	22909609
3R	23131196	23131497	../05_Mac	23.19551	23131346
3L	19483814	19484105	../05_Mac	23.16756	19483954
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3R	13348364	13348696	../05_Mac	23.11241	13348540
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2R	15753867	15754182	../05_Mac	23.10127	15754047
3L	3701000	3701315	../05_Mac	23.1	3701176
2L	7178787	7179121	../05_Mac	23.07756	7178893
3R	24335247	24335566	../05_Mac	23.06913	24335413
2R	6690425	6690880	../05_Mac	23.03582	6690597
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3L	16492554	16492865	../05_Mac	22.99835	16492726
2R	4626941	4627337	../05_Mac	22.99696	4627194
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3R	17243420	17243760	../05_Mac	22.97684	17243581
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2L	10018825	10019142	../05_Mac	22.89562	10018971
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2R	13688434	13688786	../05_Mac	22.89562	13688591
3R	11254169	11254505	../05_Mac	22.89562	11254327

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X	4014253	4014572	../05_Mac	22.89562	4014405
X	4435691	4435989	../05_Mac	22.89562	4435860
X	10521228	10521767	../05_Mac	22.89562	10521394
X	18229251	18229560	../05_Mac	22.89562	18229403
2R	18982363	18982770	../05_Mac	22.89091	18982592
3L	6947909	6948236	../05_Mac	22.89089	6948066
2R	6075019	6075394	../05_Mac	22.88051	6075215
3R	27454938	27455341	../05_Mac	22.86929	27455060
X	19667862	19668152	../05_Mac	22.86929	19668034
2L	10632321	10632641	../05_Mac	22.86431	10632494
3L	16553144	16553479	../05_Mac	22.86431	16553282
3R	8794506	8794833	../05_Mac	22.86196	8794661
3R	27134623	27134939	../05_Mac	22.86072	27134783
2L	13496156	13496869	../05_Mac	22.85367	13496476
2L	18756590	18757205	../05_Mac	22.85367	18756804
3R	24286337	24286720	../05_Mac	22.84149	24286578
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2R	10754946	10755480	../05_Mac	22.81723	10755195
3L	5214805	5215154	../05_Mac	22.81723	5214969
3L	11355283	11355902	../05_Mac	22.816	11355514
3R	26105622	26106004	../05_Mac	22.816	26105836
4	1087587	1087899	../05_Mac	22.81007	1087740
3L	11760419	11760759	../05_Mac	22.79831	11760579
2R	22906845	22907386	../05_Mac	22.78098	22907083
3L	19433132	19433566	../05_Mac	22.78098	19433308
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3R	22634591	22634930	../05_Mac	22.76404	22634741
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3R	21859775	21860192	../05_Mac	22.61364	21859948
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3R	24741093	24741407	../05_Mac	22.57195	24741259
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2L	19096692	19096938	../05_Mac	22.50285	19096798
3L	3511373	3511753	../05_Mac	22.50285	3511556
3L	3793707	3794027	../05_Mac	22.50285	3793871
3L	7469488	7469771	../05_Mac	22.50285	7469590
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X	8422522	8422837	../05_Mac	22.50285	8422664
X	13567384	13567702	../05_Mac	22.50285	13567507
3L	22142250	22142591	../05_Mac	22.50158	22142424
3L	6070130	6070507	../05_Mac	22.47905	6070343
2R	10277562	10277957	../05_Mac	22.4646	10277737
3R	28156171	28156536	../05_Mac	22.4562	28156351
3R	8634104	8634542	../05_Mac	22.43731	8634367
2L	12444180	12444489	../05_Mac	22.4354	12444318
3R	8545037	8545432	../05_Mac	22.42983	8545218
3L	3713148	3713668	../05_Mac	22.42787	3713272
2R	6851497	6851799	../05_Mac	22.40281	6851653
2R	5930068	5930351	../05_Mac	22.40192	5930197
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3L	12441088	12441618	../05_Mac	22.40107	12441477
3R	30228441	30228792	../05_Mac	22.40107	30228615
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3L	14860749	14861206	../05_Mac	22.24409	14860915
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3R	11925384	11926115	../05_Mac	22.20735	11925923
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X	17859177	17859524	../05_Mac	22.11255	17859342
X	19319950	19320246	../05_Mac	22.11255	19320126
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2R	18281022	18281315	../05_Mac	22.02699	18281178
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3R	8520912	8521291	../05_Mac	21.81162	8521152
3L	2997428	2997785	../05_Mac	21.80845	2997589
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2R	11834045	11834361	../05_Mac	21.77648	11834210
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3R	28651743	28652217	../05_Mac	21.65514	28651872
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2L	8380399	8380700	../05_Mac	21.41677	8380543
2L	1510188	1510978	../05_Mac	21.41082	1510360
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2R	21693064	21693497	../05_Mac	21.30346	21693269
2R	6558100	6558417	../05_Mac	21.2886	6558293
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2L	17612442	17612868	../05_Mac	21.25349	17612620
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3L	12536954	12537344	../05_Mac	20.76991	12537162
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2R	11363015	11363617	../05_Mac	20.75366	11363462
2R	18857589	18857840	../05_Mac	20.75305	18857723
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3L	14713283	14713803	../05_Mac	20.60997	14713529
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2R	8621101	8621402	../05_Mac	20.43353	8621241
2L	14191416	14191924	../05_Mac	20.42739	14191637
3L	2002453	2002740	../05_Mac	20.42467	2002579
2R	12037505	12037835	../05_Mac	20.41553	12037685
2R	8627074	8627358	../05_Mac	20.4029	8627209
2R	7230744	7231228	../05_Mac	20.39848	7231063

3R	16067199	16067923	../05_Mac	20.38574	16067379
2R	7307478	7307893	../05_Mac	20.36898	7307625
2L	8160379	8160723	../05_Mac	20.35122	8160557
3L	278094	278700	../05_Mac	20.33056	278249
2R	5966936	5967265	../05_Mac	20.30002	5967074
3L	20041041	20041468	../05_Mac	20.30002	20041277
2R	25228237	25228582	../05_Mac	20.26916	25228404
3L	10451755	10452377	../05_Mac	20.26365	10452236
3R	19927889	19928185	../05_Mac	20.26365	19928031
3R	18626227	18626572	../05_Mac	20.25829	18626395
2L	20598233	20598586	../05_Mac	20.25817	20598363
3R	13559379	13559774	../05_Mac	20.25817	13559626
3R	17076169	17076468	../05_Mac	20.25113	17076305
2R	20820050	20820395	../05_Mac	20.23139	20820186
3L	4919865	4920192	../05_Mac	20.22375	4919985
2R	195110696	19511040	../05_Mac	20.2109	19510896
2L	11399034	11399315	../05_Mac	20.19948	11399163
2L	11489693	11489958	../05_Mac	20.19948	11489815
2L	14279875	14280161	../05_Mac	20.19948	14279999
2L	16923117	16923487	../05_Mac	20.19948	16923310
2R	1656477	1656864	../05_Mac	20.19948	1656605
2R	5868266	5868639	../05_Mac	20.19948	5868414
2R	10003629	10003964	../05_Mac	20.19948	10003789
2R	13069560	13069814	../05_Mac	20.19948	13069724
2R	14695820	14696159	../05_Mac	20.19948	14695977
3L	6896094	6896382	../05_Mac	20.19948	6896218
3L	23885123	23885383	../05_Mac	20.19948	23885284
3R	16783492	16783765	../05_Mac	20.19948	16783605
3R	19754687	19755037	../05_Mac	20.19948	19754839
X	902533	902814	../05_Mac	20.19948	902671
X	13353460	13353714	../05_Mac	20.19948	13353599
2L	16899147	16899733	../05_Mac	20.19449	16899329
3L	21990666	21991159	../05_Mac	20.19141	21990974
2R	12567837	12568124	../05_Mac	20.19015	12568000
3L	4318740	4318973	../05_Mac	20.18762	4318848
X	9642834	9643141	../05_Mac	20.18438	9643004
2L	8498380	8498700	../05_Mac	20.17717	8498540
2L	21223126	21223443	../05_Mac	20.16153	21223279
2R	20462285	20462632	../05_Mac	20.15563	20462508
3L	8740511	8740806	../05_Mac	20.15335	8740666
2R	12219000	12219420	../05_Mac	20.15104	12219164
3R	6196818	6197169	../05_Mac	20.15104	6196956
2L	748761	749272	../05_Mac	20.12514	749008
3R	20319649	20320008	../05_Mac	20.12142	20319827
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2L	4396928	4397268	../05_Mac	20.07659	4397114



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2L	8435556	8435842	../05_Mac	20.05207	8435684
3L	6598196	6598836	../05_Mac	20.04381	6598660
3R	7360239	7360539	../05_Mac	20.03623	7360376
2R	16273840	16274192	../05_Mac	20.03193	16273997
3R	4664283	4664610	../05_Mac	20.0268	4664473
3L	5920898	5921317	../05_Mac	20.02384	5921053
2R	20492189	20492495	../05_Mac	19.99417	20492331
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3L	6236159	6236504	../05_Mac	19.9875	6236316
3L	13434368	13434770	../05_Mac	19.9875	13434551
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2R	23718554	23718935	../05_Mac	19.97485	23718741
2R	15194434	15194802	../05_Mac	19.97139	15194604
3L	13381551	13381966	../05_Mac	19.97139	13381714
3L	2420706	2421013	../05_Mac	19.96855	2420849
3L	15529097	15529461	../05_Mac	19.93891	15529281
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3R	10122920	10123286	../05_Mac	19.93233	10123121
3R	18272667	18272992	../05_Mac	19.93233	18272835
2R	20433057	20433919	../05_Mac	19.93072	20433371
3R	16747471	16747796	../05_Mac	19.93072	16747620
4	245137	245576	../05_Mac	19.92576	245359
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3L	12415083	12415409	../05_Mac	19.91428	12415218
2L	11942045	11942437	../05_Mac	19.90201	11942247
3R	31607723	31608059	../05_Mac	19.90201	31607912
2L	13315438	13316294	../05_Mac	19.89951	13315647
2R	18311939	18312269	../05_Mac	19.89879	18312080
3R	19527747	19528210	../05_Mac	19.88292	19528020
2L	4225120	4225482	../05_Mac	19.87829	4225328
2L	10096193	10096631	../05_Mac	19.87736	10096420
3R	14312310	14312654	../05_Mac	19.85456	14312495
3R	23107003	23107554	../05_Mac	19.85456	23107328
3R	5241789	5242098	../05_Mac	19.84028	5241972
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2R	12802897	12803192	../05_Mac	19.83828	12803076
3L	620254	620545	../05_Mac	19.83137	620378
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3L	428984	429365	../05_Mac	19.83006	429166
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3L	9325447	9325943	../05_Mac	19.8248	9325789
3R	631008	631216	../05_Mac	19.8248	631111

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3R	17438905	17439547	../05_Mac	19.8248	17439387
3R	17848640	17849026	../05_Mac	19.8248	17848783
3R	23446455	23446808	../05_Mac	19.8248	23446644
X	380387	380699	../05_Mac	19.8248	380544
X	5237923	5238210	../05_Mac	19.8248	5238027
X	5862894	5863155	../05_Mac	19.8248	5863067
X	13152499	13152779	../05_Mac	19.8248	13152657
X	14561448	14561692	../05_Mac	19.8248	14561556
X	14982380	14982729	../05_Mac	19.8248	14982592
2L	19275564	19275848	../05_Mac	19.81075	19275675
3L	18581804	18582099	../05_Mac	19.80918	18581955
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2L	10779259	10779840	../05_Mac	19.79898	10779465
3R	19937401	19937710	../05_Mac	19.79898	19937535
3R	21206111	21206462	../05_Mac	19.76922	21206314
3R	16379035	16379423	../05_Mac	19.76882	16379249
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2L	9272790	9273156	../05_Mac	19.75855	9272952
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3L	6898074	6898518	../05_Mac	19.72943	6898150
3R	30903361	30903661	../05_Mac	19.72943	30903544
3L	12561703	12562026	../05_Mac	19.72866	12561859
3R	27695954	27696288	../05_Mac	19.71546	27696114
3L	11539947	11540256	../05_Mac	19.70337	11540102
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3L	9290289	9290714	../05_Mac	19.69129	9290446
3R	16891129	16891532	../05_Mac	19.68883	16891280
2L	23312194	23312463	../05_Mac	19.67426	23312304
2R	16913865	16914185	../05_Mac	19.67426	16914067
3R	29593322	29593602	../05_Mac	19.67426	29593474
2R	24375839	24376212	../05_Mac	19.67383	24375996
3L	16235827	16236420	../05_Mac	19.67064	16235985
2R	20595277	20595724	../05_Mac	19.66343	20595516
2L	4723093	4723398	../05_Mac	19.66229	4723236
2L	5795359	5795659	../05_Mac	19.65944	5795491
3L	22296654	22297329	../05_Mac	19.65944	22297143
2R	12354182	12354494	../05_Mac	19.64905	12354357
3L	11636543	11636936	../05_Mac	19.64025	11636754
2L	1959060	1959410	../05_Mac	19.63244	1959242
3R	4383695	4384029	../05_Mac	19.62097	4383852
3L	22937349	22937756	../05_Mac	19.61745	22937541
3R	7671347	7671792	../05_Mac	19.61745	7671570
3R	14932769	14933047	../05_Mac	19.61745	14932907
3R	21926126	21926405	../05_Mac	19.57298	21926279
X	2108763	2109023	../05_Mac	19.57298	2108918

2R	12616133	12616469	../05_Mac	19.57252	12616306
2L	8650627	8650939	../05_Mac	19.55156	8650749
3R	11173716	11174157	../05_Mac	19.55156	11174033
2L	11951369	11951706	../05_Mac	19.5445	11951518
3R	26663548	26663867	../05_Mac	19.5445	26663716
2R	2961646	2961994	../05_Mac	19.53153	2961825
3R	25804692	25805060	../05_Mac	19.5292	25804881
2L	9777150	9777552	../05_Mac	19.5274	9777386
3L	9497023	9497320	../05_Mac	19.5115	9497175
2L	16073472	16073825	../05_Mac	19.50834	16073665
3L	22217749	22218207	../05_Mac	19.50834	22217956
3R	6975842	6976184	../05_Mac	19.49984	6976019
2R	24676530	24676852	../05_Mac	19.49207	24676677
3L	18283501	18283981	../05_Mac	19.49207	18283667
3R	7221831	7222273	../05_Mac	19.49207	7222010
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2L	4498574	4498869	../05_Mac	19.4726	4498692
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3R	19743431	19743733	../05_Mac	19.46833	19743569
3L	2318324	2318749	../05_Mac	19.46704	2318599
2L	2694679	2695114	../05_Mac	19.45247	2694866
2R	18194214	18194833	../05_Mac	19.45247	18194659
3L	939293	939659	../05_Mac	19.45247	939476
3R	28079996	28080308	../05_Mac	19.45247	28080125
3R	29323095	29323570	../05_Mac	19.45247	29323279
X	10419810	10420119	../05_Mac	19.45247	10419964
X	18135225	18135560	../05_Mac	19.45247	18135403
3L	10202858	10203349	../05_Mac	19.44282	10203145
2L	13324251	13324593	../05_Mac	19.42882	13324415
3R	25787773	25788072	../05_Mac	19.42882	25787906
2L	5840413	5840792	../05_Mac	19.41765	5840632
3L	22727470	22727780	../05_Mac	19.41157	22727610
3L	4787156	4787496	../05_Mac	19.40474	4787359
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3L	19250208	19250723	../05_Mac	19.38795	19250442
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2R	16956126	16956403	../05_Mac	19.32913	16956254
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2R	20736278	20736704	../05_Mac	19.30067	20736429
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2L	17029334	17029611	../05_Mac	19.26641	17029448
3R	3634912	3635194	../05_Mac	19.26641	3635063
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3L	470354	470676	../05_Mac	19.25548	470509
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3L	13516292	13516562	../05_Mac	19.24847	13516438
2R	16771570	16771999	../05_Mac	19.23593	16771845
2R	17410437	17410700	../05_Mac	19.23191	17410555
2L	9468893	9469166	../05_Mac	19.22823	9469015
3L	10014896	10015280	../05_Mac	19.22823	10015048
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3L	21900294	21900596	../05_Mac	19.22167	21900448
2L	6626179	6626501	../05_Mac	19.21334	6626322
3L	5272590	5273465	../05_Mac	19.20329	5273276
3L	13125243	13125616	../05_Mac	19.20329	13125439
3R	22992272	22992666	../05_Mac	19.19117	22992443
3R	21876369	21876796	../05_Mac	19.18784	21876581
2L	19848440	19848848	../05_Mac	19.17867	19848611
3R	19625238	19625546	../05_Mac	19.16644	19625367
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3R	30874894	30875477	../05_Mac	19.14715	30875320
3L	21675362	21675679	../05_Mac	19.13512	21675509
2R	18519980	18520318	../05_Mac	19.12937	18520190
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2L	15053198	15053691	../05_Mac	19.11572	15053550
3L	3306651	3306961	../05_Mac	19.09171	3306798
2L	14391003	14391392	../05_Mac	19.08811	14391169
3L	13429601	13429909	../05_Mac	19.08811	13429747
2L	896657	897157	../05_Mac	19.08257	896835
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2R	20956318	20956670	../05_Mac	19.08257	20956553
3L	18343761	18344280	../05_Mac	19.08257	18343912
3R	3595403	3595721	../05_Mac	19.08257	3595596
3R	17872830	17873097	../05_Mac	19.08257	17872944
3R	28047270	28047693	../05_Mac	19.08257	28047450
X	5454931	5455203	../05_Mac	19.08257	5455054
X	22753496	22753806	../05_Mac	19.08257	22753669
2L	15114707	15115039	../05_Mac	19.06677	15114853
3R	7889012	7889311	../05_Mac	19.05036	7889146
3R	22506802	22507242	../05_Mac	19.03217	22507046
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3R	9895365	9895672	../05_Mac	18.88025	9895515
3L	8867439	8867786	../05_Mac	18.87941	8867562
3L	19227003	19227366	../05_Mac	18.87941	19227207
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2L	16570165	16570663	../05_Mac	18.81839	16570427
3L	4397330	4397903	../05_Mac	18.8067	4397747
2R	8425010	8425291	../05_Mac	18.80431	8425140
3R	16069070	16069410	../05_Mac	18.79385	16069249
2L	11025157	11025618	../05_Mac	18.79325	11025404
3R	23805443	23805828	../05_Mac	18.78166	23805649
3R	10377799	10378181	../05_Mac	18.77887	10377986
2L	1474069	1474481	../05_Mac	18.76937	1474302
2L	14896407	14896811	../05_Mac	18.76937	14896603
2R	14439612	14439912	../05_Mac	18.76937	14439774
3L	4138733	4139032	../05_Mac	18.76464	4138851
3R	20223762	20224156	../05_Mac	18.76421	20223899
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2L	18807904	18808450	../05_Mac	18.72019	18808190

2R	4900087	4900411	../05_Mac	18.71905	4900235
2R	17542246	17542499	../05_Mac	18.7173	17542363
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2L	9325236	9325455	../05_Mac	18.71525	9325344
2L	15445385	15445718	../05_Mac	18.71525	15445527
2R	24320745	24321401	../05_Mac	18.71525	24321290
3L	1286473	1286814	../05_Mac	18.71525	1286644
3L	22445712	22446073	../05_Mac	18.71525	22445857
3R	1957498	1957776	../05_Mac	18.71525	1957622
3R	17359325	17359809	../05_Mac	18.71525	17359528
3R	18836694	18837288	../05_Mac	18.71525	18837077
3R	28140448	28140842	../05_Mac	18.71525	28140616
X	17977399	17977843	../05_Mac	18.71525	17977506
X	19433872	19434137	../05_Mac	18.71525	19433993
X	19846357	19846938	../05_Mac	18.71525	19846510
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3R	21794281	21794582	../05_Mac	18.64003	21794393
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3R	21813509	21813878	../05_Mac	18.47785	21813690
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3R	1931556	1931790	../05_Mac	18.35057	1931670
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3R	9731608	9731923	../05_Mac	18.34093	9731763
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3R	18676588	18676846	../05_Mac	18.31146	18676731
3R	27183295	27184265	../05_Mac	18.31077	27183442
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2R	17532441	17532765	../05_Mac	18.25324	17532566
2L	9632508	9632871	../05_Mac	18.2517	9632697
2R	14917218	14917549	../05_Mac	18.24597	14917387
3L	165736	166374	../05_Mac	18.23928	165879
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3L	20441077	20441411	../05_Mac	18.201	20441242
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2L	18303782	18304096	../05_Mac	18.09627	18303925
2R	6559025	6559301	../05_Mac	18.08518	6559151
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2R	22011676	22012003	../05_Mac	18.0442	22011854
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X	3052605	3052900	../05_Mac	17.98889	3052762
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X	15601891	15602170	../05_Mac	17.6296	15602024
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3R	10892465	10892836	../05_Mac	17.42257	10892650
3R	29915050	29915339	../05_Mac	17.42058	29915154
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2L	12908171	12908475	../05_Mac	17.38001	12908305
3L	20836104	20836711	../05_Mac	17.37939	20836503
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3R	16900340	16900696	../05_Mac	17.37814	16900535
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3L	21198461	21198857	../05_Mac	17.29747	21198711
3R	21508495	21508917	../05_Mac	17.28976	21508760
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3R	30017623	30017949	../05_Mac	17.22424	30017773
2R	15645878	15646143	../05_Mac	17.22335	15646009
3L	6971638	6972082	../05_Mac	17.18313	6971845
3L	3697157	3697535	../05_Mac	17.17085	3697350
2L	18217436	18217783	../05_Mac	17.16466	18217594
2R	12847296	12847949	../05_Mac	17.15673	12847783
2R	22209361	22209597	../05_Mac	17.15452	22209464
3L	22902518	22902805	../05_Mac	17.15376	22902657
2L	19977203	19977553	../05_Mac	17.15277	19977388
2R	14310281	14310885	../05_Mac	17.14318	14310567
3R	14867377	14867837	../05_Mac	17.12984	14867533
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2L	7401901	7402155	../05_Mac	17.12732	7402014
3R	10186795	10187144	../05_Mac	17.12731	10186938
3L	14119691	14120182	../05_Mac	17.1184	14119881
2R	4337515	4337838	../05_Mac	17.10861	4337700
2L	13971123	13971541	../05_Mac	17.10633	13971330
2R	11325192	11325691	../05_Mac	17.10633	11325505
3R	14093900	14094206	../05_Mac	17.10532	14094066
3R	15207762	15208048	../05_Mac	17.10532	15207890
3R	17361018	17361345	../05_Mac	17.10074	17361129
3R	10242497	10242772	../05_Mac	17.08739	10242616
3R	23371248	23371608	../05_Mac	17.08071	23371382
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3L	10643123	10643453	../05_Mac	17.07551	10643296
2R	21912737	21913112	../05_Mac	17.06372	21912959
3R	14378687	14378966	../05_Mac	17.06372	14378834
2L	15986460	15986759	../05_Mac	17.04058	15986643
3R	16407815	16408263	../05_Mac	17.04058	16407974
3R	26854685	26855017	../05_Mac	17.04058	26854826
3R	27301562	27301884	../05_Mac	17.04058	27301720
3R	10926499	10926804	../05_Mac	17.04055	10926662
3L	8670245	8670623	../05_Mac	17.03144	8670392

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3R	19655300	19655704	../05_Mac	17.02888	19655505
2L	22978112	22978459	../05_Mac	17.01383	22978245
3L	5635141	5635366	../05_Mac	17.01383	5635228
2R	7427448	7427802	../05_Mac	17.01321	7427535
3R	27176566	27176962	../05_Mac	17.00509	27176874
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3L	13142283	13142662	../05_Mac	16.95879	13142438
3L	24983859	24984118	../05_Mac	16.95879	24984000
3R	23584207	23584541	../05_Mac	16.95879	23584416
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3R	21795101	21795583	../05_Mac	16.92898	21795345
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3L	13588533	13588863	../05_Mac	16.92046	13588668
3R	8964518	8964828	../05_Mac	16.92046	8964672
3R	17734041	17734349	../05_Mac	16.92046	17734137
3R	28096395	28096830	../05_Mac	16.92046	28096674
X	13328099	13328367	../05_Mac	16.92046	13328216
X	15807277	15807535	../05_Mac	16.92046	15807421
X	19856627	19856892	../05_Mac	16.92046	19856759
X	20711362	20711667	../05_Mac	16.92046	20711493
3R	26084675	26085040	../05_Mac	16.90431	26084888
2L	20047179	20047503	../05_Mac	16.90125	20047344
3L	2593652	2594018	../05_Mac	16.88462	2593864
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2L	3970670	3971086	../05_Mac	16.88061	3970932
2L	4202971	4203347	../05_Mac	16.88061	4203201
3L	20633766	20634446	../05_Mac	16.88061	20633923
X	8435844	8436145	../05_Mac	16.88061	8436000
3L	16897491	16897851	../05_Mac	16.87907	16897697
3L	21545873	21546354	../05_Mac	16.87907	21546019
3R	19870205	19870802	../05_Mac	16.87907	19870621
2L	7669819	7670221	../05_Mac	16.87869	7670032
3R	10916269	10916586	../05_Mac	16.87216	10916409
2L	16389940	16390311	../05_Mac	16.85616	16390135
2R	20309473	20309815	../05_Mac	16.84564	20309700
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2R	12021278	12021557	../05_Mac	16.84336	12021427
3L	23949230	23949806	../05_Mac	16.84336	23949473

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3R	26634105	26634423	../05_Mac	16.8404	26634245
3R	14540670	14541046	../05_Mac	16.83809	14540857
3R	21292778	21293097	../05_Mac	16.83809	21292910
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3L	6112779	6113242	../05_Mac	16.83279	6113052
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3R	22254644	22254896	../05_Mac	16.82251	22254762
2L	1634338	1634606	../05_Mac	16.8004	1634467
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2L	14056185	14056582	../05_Mac	16.78734	14056326
2R	19773043	19773350	../05_Mac	16.78719	19773230
3R	5178631	5178957	../05_Mac	16.77971	5178819
2L	13016531	13017389	../05_Mac	16.77872	13017234
2R	18288253	18288513	../05_Mac	16.76017	18288373
2L	9868529	9868847	../05_Mac	16.75518	9868704
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3R	20203447	20203752	../05_Mac	16.70325	20203629
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2R	10736665	10736923	../05_Mac	16.68201	10736770
2R	11946799	11947115	../05_Mac	16.66165	11946961
3L	8223416	8223752	../05_Mac	16.66165	8223562
3R	26495055	26495402	../05_Mac	16.6405	26495225
3L	17397774	17398078	../05_Mac	16.63994	17397943
3R	11608047	11608365	../05_Mac	16.63892	11608196
2L	20879183	20879582	../05_Mac	16.63476	20879402
2L	19610317	19610706	../05_Mac	16.62401	19610519
3R	20128652	20129002	../05_Mac	16.62401	20128804
2L	15740088	15740554	../05_Mac	16.617	15740391
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2R	20259516	20259867	../05_Mac	16.6012	20259683
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2L	1259025	1259287	../05_Mac	16.56961	1259139
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3R	10618017	10618365	../05_Mac	16.56961	10618151
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3R	28041422	28041857	../05_Mac	16.56961	28041732
X	668626	668869	../05_Mac	16.56961	668738
X	3191224	3191511	../05_Mac	16.56961	3191352
X	20577934	20578193	../05_Mac	16.56961	20578033
X	22916925	22917377	../05_Mac	16.56961	22917076
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2L	18130872	18131174	../05_Mac	16.53422	18131033
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X	13236410	13236672	../05_Mac	16.22162	13236540
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2R	15219493	15219748	../05_Mac	16.18348	15219622
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X	16487416	16487717	../05_Mac	15.87637	16487534
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3L	22470869	22471146	../05_Mac	15.82391	22471032
2R	9494893	9495211	../05_Mac	15.80865	9495065
3L	9786878	9787165	../05_Mac	15.80865	9787050
3L	4131592	4131906	../05_Mac	15.79735	4131742
2R	8410441	8411142	../05_Mac	15.79475	8410630
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3R	20199231	20199881	../05_Mac	15.79475	20199682
2L	9061632	9061907	../05_Mac	15.79219	9061759
3R	12034819	12035452	../05_Mac	15.78367	12034985
3R	28137172	28137471	../05_Mac	15.78333	28137311
3L	3311699	3312004	../05_Mac	15.77614	3311842
3R	24650602	24650919	../05_Mac	15.77614	24650726
3L	16653646	16654022	../05_Mac	15.76339	16653839
3R	26440827	26441105	../05_Mac	15.76339	26440928
3R	32026990	32027372	../05_Mac	15.76302	32027173
2R	22718166	22718453	../05_Mac	15.76051	22718299
2R	5962208	5962498	../05_Mac	15.75063	5962311
3R	31109986	31110287	../05_Mac	15.7418	31110140
3R	15554447	15554768	../05_Mac	15.7411	15554595
2L	15882092	15882449	../05_Mac	15.73795	15882265
3L	4631037	4631301	../05_Mac	15.73579	4631131
2L	554267	554535	../05_Mac	15.73543	554377
2L	3987211	3987556	../05_Mac	15.70676	3987386
3L	11914979	11915257	../05_Mac	15.70676	11915129

3R	13350716	13351030	../05_Mac	15.69418	13350855
2R	23880186	23880453	../05_Mac	15.68813	23880326
2R	20104128	20104412	../05_Mac	15.68596	20104241
2L	5974028	5974359	../05_Mac	15.67888	5974189
2L	20360578	20360928	../05_Mac	15.66438	20360736
2R	9139516	9139816	../05_Mac	15.66209	9139681
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2R	4542034	4542312	../05_Mac	15.648	4542197
3L	9998331	9998691	../05_Mac	15.648	9998487
3L	18820238	18820623	../05_Mac	15.6304	18820404
2R	20882133	20882483	../05_Mac	15.61656	20882287
2R	21291832	21292078	../05_Mac	15.60834	21291952
3L	16847612	16847886	../05_Mac	15.60834	16847757
3L	4776362	4776704	../05_Mac	15.60649	4776515
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3L	7115738	7116161	../05_Mac	15.59646	7115923
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3R	19353148	19353608	../05_Mac	15.53683	19353252
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2R	4717963	4718219	../05_Mac	15.53404	4718136
2R	5463461	5463723	../05_Mac	15.53404	5463563
2R	12108212	12108594	../05_Mac	15.53404	12108352
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3R	24480488	24481239	../05_Mac	15.53404	24481091
3R	29181302	29181629	../05_Mac	15.53404	29181442
3R	29361285	29361646	../05_Mac	15.53404	29361472
X	10168200	10168433	../05_Mac	15.53404	10168285
X	10480867	10481375	../05_Mac	15.53404	10481075
X	17356496	17356743	../05_Mac	15.53404	17356590
X	20083736	20083993	../05_Mac	15.53404	20083834
X	21486170	21486429	../05_Mac	15.53404	21486304
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3R	30124771	30125114	../05_Mac	15.51393	30124895
2R	8554756	8555064	../05_Mac	15.51089	8554913
X	4104779	4105396	../05_Mac	15.51089	4104963
3R	6280895	6281246	../05_Mac	15.50157	6281084
3R	24882192	24882446	../05_Mac	15.50157	24882321
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3R	4455524	4455844	../05_Mac	15.4879	4455684
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3R	16058023	16058388	../05_Mac	15.43352	16058148
3R	10076005	10076574	../05_Mac	15.43166	10076340
3R	11583830	11584086	../05_Mac	15.4253	11583965
2L	18272479	18272885	../05_Mac	15.42443	18272637
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3L	9827604	9827998	../05_Mac	15.40451	9827820
2R	21125199	21125521	../05_Mac	15.39928	21125329
3L	6800760	6801635	../05_Mac	15.3911	6801486
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3L	19079700	19080161	../05_Mac	15.3735	19079958
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2L	13116919	13117298	../05_Mac	15.34725	13117086
2L	16712943	16713275	../05_Mac	15.34725	16713084
3L	15687305	15687654	../05_Mac	15.34725	15687495
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3L	5380207	5380654	../05_Mac	15.30758	5380446
3R	26571240	26571531	../05_Mac	15.30027	26571379
3R	7102811	7103224	../05_Mac	15.29487	7103046
2L	13942069	13942364	../05_Mac	15.2923	13942234
3L	22282534	22282803	../05_Mac	15.2923	22282687
2L	20105513	20105835	../05_Mac	15.29087	20105654
3R	20077733	20077979	../05_Mac	15.27878	20077904
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2L	21916867	21917126	../05_Mac	15.2593	21917001
3R	21636111	21636432	../05_Mac	15.25532	21636250
2R	16347794	16348075	../05_Mac	15.25127	16347940
2L	20141285	20141689	../05_Mac	15.22775	20141553
3R	24342383	24342671	../05_Mac	15.20452	24342524
2R	24605384	24605671	../05_Mac	15.20012	24605525
2L	16921523	16921816	../05_Mac	15.19421	16921650
2L	17861775	17862162	../05_Mac	15.19421	17861938
2L	23405295	23405596	../05_Mac	15.19421	23405465
2R	930965	931272	../05_Mac	15.19421	931136
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3L	13622650	13623204	../05_Mac	15.19421	13623031
3R	27306986	27307390	../05_Mac	15.19421	27307163
X	16231621	16231870	../05_Mac	15.19421	16231750
X	17764932	17765236	../05_Mac	15.19421	17765087
3R	12394657	12394968	../05_Mac	15.19242	12394798
3L	5673441	5673792	../05_Mac	15.19178	5673609
3L	11364668	11365135	../05_Mac	15.18409	11364959
3R	25267263	25267578	../05_Mac	15.17137	25267413
3R	14425033	14425302	../05_Mac	15.16008	14425141
2L	6508062	6508433	../05_Mac	15.1516	6508296
3L	11024275	11024608	../05_Mac	15.14627	11024436
3L	27366280	27366627	../05_Mac	15.14627	27366428
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3R	10861672	10862035	../05_Mac	15.14149	10861854
3L	15852067	15852427	../05_Mac	15.11777	15852239

2R	14850421	14850651	../05_Mac	15.1137	14850515
2R	13325518	13326216	../05_Mac	15.10127	13326101
3L	18246029	18246301	../05_Mac	15.10127	18246164
3L	4448127	4448419	../05_Mac	15.09054	4448305
3L	18903498	18903890	../05_Mac	15.08912	18903743
3L	340643	340920	../05_Mac	15.08077	340754
2R	17985876	17986168	../05_Mac	15.06981	17986025
2R	13419780	13420035	../05_Mac	15.06644	13419911
2L	13133987	13134293	../05_Mac	15.04955	13134148
3R	13037032	13037351	../05_Mac	15.04732	13037192
3L	8039485	8039795	../05_Mac	15.04086	8039618
3L	11667311	11667612	../05_Mac	15.04086	11667484
2L	8202984	8203249	../05_Mac	15.0408	8203121
2R	23729285	23729518	../05_Mac	15.02199	23729392
3L	22380976	22381332	../05_Mac	15.01612	22381160
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2L	18905405	18905732	../05_Mac	15.01044	18905585
2L	296333	296635	../05_Mac	15.00885	296492
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3L	9035045	9035529	../05_Mac	15.00124	9035329
2L	16506667	16507158	../05_Mac	14.98276	16506964
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3L	1513858	1514471	../05_Mac	14.96263	1514010
3R	17987053	17987366	../05_Mac	14.96167	17987203
2R	12941681	12942174	../05_Mac	14.9616	12942015
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3L	1848255	1848569	../05_Mac	14.95245	1848408
2R	22857129	22857401	../05_Mac	14.94608	22857254
3R	11104960	11105366	../05_Mac	14.94557	11105198
3R	30422109	30422361	../05_Mac	14.94315	30422232
2L	11623270	11623557	../05_Mac	14.92423	11623436
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3R	20823091	20823360	../05_Mac	14.91562	20823197
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2R	25094715	25095031	../05_Mac	14.87911	25094862
2L	20541800	20542066	../05_Mac	14.85764	20541951
2R	3917654	3917899	../05_Mac	14.85764	3917763
2R	13749762	13750009	../05_Mac	14.85764	13749896
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2R	20180002	20180303	../05_Mac	14.85764	20180161
2R	20441489	20441789	../05_Mac	14.85764	20441658
3R	15635211	15635630	../05_Mac	14.85764	15635511

X	14317784	14318046	../05_Mac	14.85764	14317913
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2L	4671920	4672223	../05_Mac	14.84719	4672078
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3L	14631246	14631586	../05_Mac	14.79843	14631398
3R	4365740	4366138	../05_Mac	14.79735	4365895
3L	1521170	1521778	../05_Mac	14.79078	1521621
2L	127386	127633	../05_Mac	14.78766	127514
3R	11440334	11440618	../05_Mac	14.78714	11440479
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2R	7163302	7163705	../05_Mac	14.69709	7163487
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3R	22301693	22301980	../05_Mac	14.68838	22301866
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3R	20881929	20882254	../05_Mac	14.59727	20882088
2L	19916764	19917033	../05_Mac	14.59255	19916850
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3R	2446106	2446314	../05_Mac	14.56829	2446231
3R	24435933	24436182	../05_Mac	14.56524	24436021
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2R	10384153	10384548	../05_Mac	14.52372	10384349
2R	23120232	23120901	../05_Mac	14.52372	23120784
3L	1059967	1060210	../05_Mac	14.52372	1060108
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3R	20490480	20490751	../05_Mac	14.52372	20490610
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X	9599741	9600003	../05_Mac	14.52372	9599889
X	11244541	11244801	../05_Mac	14.52372	11244671
X	12996521	12996806	../05_Mac	14.52372	12996670
X	14804958	14805242	../05_Mac	14.52372	14805119
2L	9992231	9992736	../05_Mac	14.523	9992464
2R	15415886	15416145	../05_Mac	14.50788	15416027
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3L	19252172	19252496	../05_Mac	14.33969	19252332
2L	19141537	19141891	../05_Mac	14.3321	19141699
2R	7424412	7424664	../05_Mac	14.3321	7424520
2L	9293740	9294051	../05_Mac	14.3306	9293932
X	2729310	2729585	../05_Mac	14.3306	2729453
3R	6189221	6189590	../05_Mac	14.3166	6189408
2R	5897373	5897679	../05_Mac	14.28619	5897498
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2R	5274938	5275202	../05_Mac	14.19287	5275058
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X	780318	780573	../05_Mac	14.19287	780451
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X	16307119	16307381	../05_Mac	14.19287	16307263
X	18427084	18427316	../05_Mac	14.19287	18427208
3R	3586062	3586549	../05_Mac	14.18062	3586187
2R	18289886	18290174	../05_Mac	14.16496	18290025
2R	18472222	18472554	../05_Mac	14.13434	18472411
3L	16959234	16959481	../05_Mac	14.1208	16959374
2L	10615101	10615898	../05_Mac	14.11353	10615511
3R	6614732	6615193	../05_Mac	14.10146	6614929
2L	14891531	14891917	../05_Mac	14.09639	14891665
2L	5712545	5712807	../05_Mac	14.09194	5712672
3L	18858975	18859327	../05_Mac	14.09066	18859162
3R	5128140	5128519	../05_Mac	14.08246	5128325
2R	5684562	5684973	../05_Mac	14.06204	5684780
3R	11292515	11292823	../05_Mac	14.05171	11292660
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3R	25517773	25518020	../05_Mac	14.02125	25517932
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3R	8766723	8767006	../05_Mac	13.96709	8766844
2R	17003877	17004321	../05_Mac	13.96362	17004028
2L	23128180	23128400	../05_Mac	13.96057	23128299
3R	6061005	6061225	../05_Mac	13.96057	6061100
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2R	15011838	15012173	../05_Mac	13.95945	15011984
3R	21530833	21531099	../05_Mac	13.95945	21530931
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3R	15532328	15532570	../05_Mac	13.94856	15532467
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2R	20458350	20458595	../05_Mac	13.9158	20458451
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2L	9105536	9105864	../05_Mac	13.90534	9105704
3L	16471075	16471729	../05_Mac	13.89798	16471255
3L	18818896	18819325	../05_Mac	13.89798	18819054
2R	11643134	11643348	../05_Mac	13.88672	11643242



2R	24246140	24246486	../05_Mac	13.87757	24246309
2R	15190718	15191092	../05_Mac	13.8749	15190939
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3L	22984	23251	../05_Mac	13.86463	23109
3L	4913742	4914074	../05_Mac	13.86463	4913874
3L	11688367	11688589	../05_Mac	13.86463	11688424
3L	13323524	13323835	../05_Mac	13.86463	13323688
3R	17571141	17571373	../05_Mac	13.86463	17571217
3R	27714084	27714368	../05_Mac	13.86463	27714233
3R	28257725	28257948	../05_Mac	13.86463	28257858
3R	28299554	28300178	../05_Mac	13.86463	28300002
X	14383400	14383777	../05_Mac	13.86463	14383594
X	16705930	16706151	../05_Mac	13.86463	16706051
X	18725593	18725843	../05_Mac	13.86463	18725736
3R	4834511	4834870	../05_Mac	13.862	4834762
3L	3929805	3930254	../05_Mac	13.85961	3929931
2L	18474229	18474678	../05_Mac	13.85665	18474407
3R	11769362	11769607	../05_Mac	13.85122	11769488
3L	15791129	15791765	../05_Mac	13.85067	15791341
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3R	17583685	17583927	../05_Mac	13.82189	17583785
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3L	9826117	9826406	../05_Mac	13.80272	9826233
2L	6843981	6844313	../05_Mac	13.79974	6844151
3R	12399968	12400249	../05_Mac	13.77692	12400093
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2L	9913637	9913912	../05_Mac	13.7496	9913784
2R	19652682	19652988	../05_Mac	13.74916	19652828
3L	4433390	4433697	../05_Mac	13.74916	4433529
2L	16550395	16550974	../05_Mac	13.74639	16550768
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2R	14129926	14130404	../05_Mac	13.74379	14130143
2L	21931231	21931724	../05_Mac	13.73768	21931486
3L	10158000	10158316	../05_Mac	13.73768	10158171
3R	29610396	29610663	../05_Mac	13.73768	29610571
3L	5398060	5398418	../05_Mac	13.72971	5398173
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3L	8239974	8240310	../05_Mac	13.7005	8240137
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2L	19595898	19596174	../05_Mac	13.65106	19596053
3L	13019139	13019527	../05_Mac	13.64342	13019258
2L	6632544	6632783	../05_Mac	13.64306	6632690
2R	8336147	8336468	../05_Mac	13.64306	8336320
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3R	11687216	11687450	../05_Mac	13.63674	11687324
3R	8537181	8537706	../05_Mac	13.61617	8537348
3L	18250442	18250791	../05_Mac	13.60425	18250616
2R	2724958	2725231	../05_Mac	13.60172	2725058
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3L	27286116	27286409	../05_Mac	13.59604	27286249
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2L	482151	482499	../05_Mac	13.59591	482313
3R	11340809	11341111	../05_Mac	13.59278	11340958
3R	32062877	32063200	../05_Mac	13.59012	32063088
3L	3389575	3389890	../05_Mac	13.57244	3389728
3L	18030601	18030910	../05_Mac	13.56778	18030774
2R	19548985	19549349	../05_Mac	13.56677	19549155
3R	8500125	8500398	../05_Mac	13.5524	8500274
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2L	10890146	10890465	../05_Mac	13.54818	10890319
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2L	17664614	17664878	../05_Mac	13.5397	17664765
2L	22926562	22927250	../05_Mac	13.5397	22927038
2R	11162066	11162390	../05_Mac	13.5397	11162228
2R	18205731	18206051	../05_Mac	13.5397	18205881
2R	23484579	23484903	../05_Mac	13.5397	23484746
3L	2913832	2914096	../05_Mac	13.5397	2913950
3L	20136013	20136278	../05_Mac	13.5397	20136152
3R	5018528	5018823	../05_Mac	13.5397	5018700
3R	9160419	9160707	../05_Mac	13.5397	9160555
X	6483267	6483788	../05_Mac	13.5397	6483441
X	6913302	6913578	../05_Mac	13.5397	6913416
X	7049970	7050232	../05_Mac	13.5397	7050115
X	14292062	14292261	../05_Mac	13.5397	14292158
X	14545470	14545720	../05_Mac	13.5397	14545618
X	14683795	14684058	../05_Mac	13.5397	14683910
X	15664498	15664740	../05_Mac	13.5397	15664656
3R	27583201	27583472	../05_Mac	13.52921	27583341
2R	21928500	21928777	../05_Mac	13.52756	21928627
2L	19463041	19463298	../05_Mac	13.52226	19463128
2R	18031623	18031893	../05_Mac	13.52226	18031748
3L	11319654	11319867	../05_Mac	13.50688	11319742
3L	9139914	9140311	../05_Mac	13.50571	9140127
2R	15575416	15575665	../05_Mac	13.475	15575544
2L	19211150	19211483	../05_Mac	13.47424	19211311
3R	8553839	8554122	../05_Mac	13.47424	8553994
X	7735650	7735911	../05_Mac	13.47424	7735797

3L	18356241	18356587	../05_Mac	13.46446	18356419
3R	14628048	14628480	../05_Mac	13.45455	14628360
3R	18327634	18328149	../05_Mac	13.42616	18327807
3L	17404658	17404870	../05_Mac	13.40533	17404775
3R	26570111	26570484	../05_Mac	13.39334	26570305
3L	6556564	6556881	../05_Mac	13.38456	6556707
3L	17822637	17823542	../05_Mac	13.37289	17823380
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2L	11950084	11950576	../05_Mac	13.33261	11950253
3R	13892551	13892919	../05_Mac	13.33261	13892721
3R	16312637	16312946	../05_Mac	13.3268	16312772
2R	19914139	19914463	../05_Mac	13.31844	19914303
3L	4592595	4592880	../05_Mac	13.31844	4592702
3R	16464364	16464622	../05_Mac	13.31421	16464517
2R	20592271	20592640	../05_Mac	13.31329	20592518
3R	26654875	26655185	../05_Mac	13.31021	26655010
2L	5383998	5384296	../05_Mac	13.30243	5384116
3R	17004720	17005118	../05_Mac	13.30154	17005002
3L	18821714	18822093	../05_Mac	13.28374	18821880
2R	12906201	12906492	../05_Mac	13.28088	12906341
3L	21546632	21546932	../05_Mac	13.27245	21546801
2L	10323584	10323918	../05_Mac	13.26513	10323740
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3R	12335054	12335432	../05_Mac	13.26085	12335297
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3R	26897823	26898164	../05_Mac	13.23859	26897933
2R	13789235	13789637	../05_Mac	13.23525	13789501
3L	17863046	17863253	../05_Mac	13.21739	17863083
3R	3738226	3738507	../05_Mac	13.21739	3738370
3R	22973519	22973814	../05_Mac	13.21739	22973653
X	5169622	5169942	../05_Mac	13.21739	5169784
X	5856296	5856506	../05_Mac	13.21739	5856422
X	7954435	7954808	../05_Mac	13.21739	7954622
X	13066489	13066721	../05_Mac	13.21739	13066605
X	16190449	16190663	../05_Mac	13.21739	16190542
X	20129389	20129674	../05_Mac	13.21739	20129499
X	20347922	20348173	../05_Mac	13.21739	20348046
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2R	10687888	10688173	../05_Mac	13.21348	10688015
3L	20673865	20674280	../05_Mac	13.21348	20674102
3R	20187473	20187831	../05_Mac	13.21348	20187636
3R	23256725	23256985	../05_Mac	13.21335	23256849
3R	11185773	11186096	../05_Mac	13.18305	11185921
2R	23365754	23366093	../05_Mac	13.17767	23365911
2L	7709344	7709710	../05_Mac	13.17017	7709522
3R	21804019	21804256	../05_Mac	13.16612	21804141
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2L	12413309	12414006	../05_Mac	13.1281	12413528
3R	29561061	29561352	../05_Mac	13.1281	29561232
3R	19390783	19391092	../05_Mac	13.10723	19390933
3L	9975368	9975684	../05_Mac	13.10476	9975531
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2R	18536664	18536968	../05_Mac	13.10237	18536785
3L	22348668	22349092	../05_Mac	13.10102	22348913
2R	22448484	22449340	../05_Mac	13.0896	22448668
2R	17089145	17089425	../05_Mac	13.08792	17089309
3R	7165577	7166035	../05_Mac	13.07638	7165795
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3R	31622646	31622966	../05_Mac	13.05528	31622828
3R	19127510	19127815	../05_Mac	13.05284	19127662
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3R	24657002	24657333	../05_Mac	13.05111	24657135
2L	11733865	11734190	../05_Mac	13.04901	11733953
3L	7367630	7368076	../05_Mac	13.03082	7367742
3L	17041639	17041945	../05_Mac	13.02814	17041820
2L	8474815	8475126	../05_Mac	13.02479	8474972
2L	9862797	9863170	../05_Mac	13.02087	9862978
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2L	19512964	19513255	../05_Mac	13.00266	19513119
3R	26788317	26788826	../05_Mac	13.00257	26788500
2L	15466314	15466634	../05_Mac	12.99672	15466497
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2L	107920	108220	../05_Mac	12.95099	108031
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3L	17097146	17097485	../05_Mac	12.8985	17097341
3R	19780451	19780706	../05_Mac	12.8985	19780628
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2R	21377928	21378207	../05_Mac	12.89501	21378035
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3R	29502702	29502934	../05_Mac	12.78339	29502815
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2L	20738801	20739055	../05_Mac	12.67349	20738900
3R	19259502	19259791	../05_Mac	12.6671	19259666
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2L	1418283	1418511	../05_Mac	12.60569	1418400
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3L	1459057	1459355	../05_Mac	12.58224	1459220
3R	7622623	7622892	../05_Mac	12.58224	7622756
3R	29435382	29435661	../05_Mac	12.58224	29435493
3R	31523192	31523465	../05_Mac	12.58224	31523333
X	8347653	8347863	../05_Mac	12.58224	8347768
X	9992528	9992739	../05_Mac	12.58224	9992636
X	11979763	11980012	../05_Mac	12.58224	11979885

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3R	25943081	25943452	../05_Mac	12.5599	25943276
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3L	7651448	7651743	../05_Mac	12.5405	7651571
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2R	13948063	13948302	../05_Mac	12.3791	13948175
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X	8026573	8026860	../05_Mac	12.26913	8026757

X	9836802	9837130	../05_Mac	12.26913	9836997
X	16453801	16454027	../05_Mac	12.26913	16453913
X	19966550	19966807	../05_Mac	12.26913	19966648
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3R	28995572	28995950	../05_Mac	12.20924	28995693
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2R	20772668	20772969	../05_Mac	12.20896	20772790
3L	6915721	6915984	../05_Mac	12.20896	6915852
2R	13175702	13176030	../05_Mac	12.20679	13175824
2R	19160011	19160400	../05_Mac	12.20055	19160246
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2L	18073387	18073956	../05_Mac	11.98884	18073575
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3R	20504874	20505140	../05_Mac	11.98884	20505031
X	9837678	9837980	../05_Mac	11.98884	9837875
2R	16927818	16928251	../05_Mac	11.98711	16927978
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3R	6914827	6915093	../05_Mac	11.95946	6914924
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3L	23619718	23620013	../05_Mac	11.9593	23619844
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X	3065555	3065822	../05_Mac	11.9593	3065649
X	4257484	4257726	../05_Mac	11.9593	4257599
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3L	12925603	12925906	../05_Mac	11.86122	12925743
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X	4660294	4660536	../05_Mac	11.65233	4660422
X	7638967	7639182	../05_Mac	11.65233	7639054
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3R	21525557	21525825	../05_Mac	10.96911	21525683
2L	19569818	19570295	../05_Mac	10.9649	19570217
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2L	4962574	4962818	../05_Mac	10.54582	4962678
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3L	22078405	22078640	../05_Mac	10.39037	22078527
3R	14781881	14782166	../05_Mac	10.37213	14782027
3R	24118472	24118810	../05_Mac	10.35434	24118592
3R	30210614	30210910	../05_Mac	10.35434	30210798
2R	18333322	18333797	../05_Mac	10.34057	18333743
3L	17243737	17244085	../05_Mac	10.34057	17243910
2L	390531	390753	../05_Mac	10.33883	390627
2R	17995521	17995913	../05_Mac	10.33128	17995749
3R	5090314	5090536	../05_Mac	10.33128	5090426
3L	20253016	20253276	../05_Mac	10.32679	20253123
3R	13140794	13141070	../05_Mac	10.32679	13140910
3L	25605683	25606044	../05_Mac	10.32655	25605838
2R	9967293	9967576	../05_Mac	10.30643	9967450
2R	15280831	15281165	../05_Mac	10.28831	15281021
2L	8970973	8971240	../05_Mac	10.26259	8971085
3L	6466510	6466806	../05_Mac	10.25926	6466642
3R	11371621	11371992	../05_Mac	10.25926	11371774
2L	10217660	10218165	../05_Mac	10.25555	10218073
3R	25317419	25317716	../05_Mac	10.25555	25317529
3R	16088415	16088661	../05_Mac	10.24422	16088550
2L	15528377	15528632	../05_Mac	10.239	15528533
3L	6334510	6334867	../05_Mac	10.23175	6334759
3L	18868678	18868892	../05_Mac	10.22863	18868736
2R	13318682	13319303	../05_Mac	10.22602	13319111
3L	4588800	4589069	../05_Mac	10.22602	4588891
2L	3002248	3002555	../05_Mac	10.22277	3002374
3R	13162789	13163411	../05_Mac	10.21941	13163218
2L	5914422	5914650	../05_Mac	10.20779	5914528
2L	18737450	18737759	../05_Mac	10.20779	18737583
3R	4959898	4960116	../05_Mac	10.20779	4960005
3L	954306	954597	../05_Mac	10.20706	954454
2L	11059089	11059418	../05_Mac	10.19564	11059267
2L	20080240	20080606	../05_Mac	10.1905	20080429
3R	18699008	18699404	../05_Mac	10.1905	18699170
3L	13086927	13087166	../05_Mac	10.18625	13086989
3R	18804816	18805108	../05_Mac	10.18625	18804944
3R	22752511	22753151	../05_Mac	10.17379	22752736
2L	2663368	2663623	../05_Mac	10.16472	2663544
2L	2706102	2706423	../05_Mac	10.16472	2706271
2R	18477964	18478245	../05_Mac	10.16472	18478075
X	8105945	8106323	../05_Mac	10.16472	8106074
2L	3015724	3015957	../05_Mac	10.16352	3015857
2R	11636220	11636555	../05_Mac	10.14814	11636386

3L	19108432	19108676	../05_Mac	10.13985	19108524
3R	21622863	21623339	../05_Mac	10.12851	21623219
2L	17059726	17059999	../05_Mac	10.11488	17059856
3R	30223226	30223517	../05_Mac	10.11488	30223379
3L	5067259	5067637	../05_Mac	10.11338	5067478
2R	7506413	7506656	../05_Mac	10.10616	7506506
2L	14146705	14146948	../05_Mac	10.10536	14146818
2R	8546940	8547490	../05_Mac	10.10536	8547322

Additional Data table S8 (separate excel file) List of 148 'late-activated' genes represented in fig. S13C  
 (Questions: Jongmin Kim / devtxn@gmail.com)

Probe set ID	gene symbol	noHS	24hr	48hr	WT	aly-/-	kmg KD	kmg KD; aly-/-
1632185_s_at	scpr-A /// scpr-B /// scpr-C	6.449371255	5.604569847	3.117695528	15.03142075	11.21957641	9.176108928	9.696200499
1638545_at	CG30409	5.706006812	4.743778399	3.948167481	6.852783991	10.43930328	4.90971316	6.466086395
1635741_a_at	Patsas	4.026320617	3.374956773	2.611646534	2.52636007	8.565277886	6.79935026	3.83452164
1625954_at	CG2681	4.789062189	3.896069495	3.811872376	3.177907934	8.998773285	6.82829298	6.970476835
1638046_at	Adgf-B	3.781581889	3.538114741	2.80475476	11.34473885	8.702759052	9.133478935	10.34469877
1632782_a_at	CG7675	4.524890116	4.668072226	3.607696746	7.330181164	9.491261323	6.763929843	8.10037169
1636963_at	CG12111 /// DsimGD24567	5.429000391	5.527594272	4.512522738	12.55955381	10.0702689	5.958089053	8.519664455
1636316_a_at	CG42593	6.071418193	7.066005595	5.238586396	8.501145069	10.22890343	6.040365257	7.758737567
1633439_at	Galpha73B	4.074458617	4.024562557	3.247611414	3.98664493	9.513519719	5.566706938	7.674468759
1629204_a_at	CG7705	5.28115249	5.38566323	4.477406641	4.620641037	9.343422032	2.57604515	6.477610369
1623712_at	CG10132	3.821591328	4.038016136	3.018228523	2.861756714	10.20995484	3.951059674	7.317269904
1623772_a_at	mthl10	3.025479891	3.024010664	2.265448881	5.757232831	7.682406596	2.205533042	5.434635136
1631280_at	CG9095	3.628918789	3.282435481	2.898375413	2.642587248	7.77176848	2.749894092	7.461335074
1630626_at	pps	4.882378936	5.317817443	4.179703727	6.918472722	9.259890414	4.711449791	5.568004962
1626500_a_at	CTCF	3.412944345	3.174979146	2.736559966	3.934322002	8.319283392	2.233085705	4.866004977
1630807_at	CG33111	7.367320112	7.280264525	6.744656885	6.493575584	11.87193528	9.123962906	10.88312853
1635334_a_at	CG10732	5.429358186	4.766065927	4.807792146	10.04064624	10.06906346	7.160938344	7.071835826
1637488_at	Cad88C	3.283957351	3.587423155	2.666110041	2.630652578	7.942355094	3.0129169	8.586535474
1637030_at	CG5948	3.815132553	3.798839959	3.245530315	5.252616014	8.699471505	2.498942138	4.617477229
1623438_at	CG9505	3.765353222	3.726733378	3.202595455	2.953406739	8.95769434	3.583724992	3.426618475
1632739_at	CG32536 /// CG32537	5.857239883	5.560855601	5.321408004	7.726922597	10.90156689	6.080278409	8.675906752
1623134_at	CG12506	2.788208288	2.872374955	2.294036295	12.48697877	8.481450512	6.993745785	3.806036464
1635648_at	CG14490	3.073249825	2.847041822	2.648060098	2.630226208	8.747046704	4.797860967	4.701704243
1623007_a_at	---	3.197184945	2.750097387	2.790401681	7.225035813	7.828503269	6.51995303	5.610034035
1635585_at	tadr	2.967220351	3.084156981	2.573133143	6.060658111	7.437943488	9.411043351	5.088662458
1638689_s_at	---	3.108615828	3.271687459	2.718014462	3.502526581	7.776864353	2.348740191	3.845164417
1628741_s_at	TM9SF4	2.621770246	2.620434624	2.236859997	10.47099678	10.21935944	7.631106238	7.707121304
1630149_at	CG6290	2.898479702	2.945897173	2.538485225	2.785618809	7.103135307	3.45481334	5.182760471
1635507_at	CG30031 /// CG4269	6.102293107	5.617002642	5.743702092	5.672655367	10.41194519	7.556749672	8.650210259
1625911_at	CG15760	3.164057399	2.738530167	2.835387227	2.751275364	8.852088306	6.580683219	6.877279031
1640326_at	CG30381	4.146953706	4.593055887	3.892860013	2.616484829	8.89643556	2.160086902	6.28064077
1629688_at	Oseg4	4.203608509	4.036500846	3.97353744	4.071150053	8.315096831	3.995414625	3.848971429

1627037_s_at	spri	2.637740244	2.732391352	2.411041738	6.385026095	9.189354219	2.750561049	3.79803226
1641673_at	CG8378	6.799093524	7.102183916	6.589182168	10.86735491	11.60990082	7.112244646	9.49395178
1627874_at	xmas-1	4.617707867	4.851215036	4.460620846	11.85863091	10.98330227	8.953156036	7.916671516
1628640_at	CG14627	2.777634269	2.637354624	2.623740555	3.437403549	8.992080216	3.204980964	6.263599715
1639515_at	CG7367	3.228238555	3.088531009	3.091709565	3.177696081	7.721399683	5.776054223	4.999140858
1626853_a_at	CG14017	2.423754204	2.260912326	2.289753458	10.95204337	7.752411344	3.938554596	6.316671404
1634529_at	CG3290	2.400402865	2.851341867	2.294043369	3.59849838	6.771472564	5.459596106	2.208130849
1636640_at	CG14811	2.846512689	2.759697293	2.759697293	8.173655474	11.34984609	6.591836159	11.72415543
1637562_at	TwdIT	2.915902551	3.899267869	2.832911232	3.478432852	7.641097486	3.685436789	3.002425976
1626452_at	CG2121	2.666772708	2.7178643	2.58418142	2.565875263	7.158207003	5.833029661	5.332705511
1626613_at	CG11236	3.217273438	3.236061193	3.136400169	3.527999085	7.419477091	3.894780441	3.225640346
1627153_at	CG30157	3.532789598	3.648626472	3.457917677	10.44229666	8.992879916	5.887893718	7.450941478
1625957_at	CG10051	2.197396811	2.167207326	2.130106683	2.314856387	8.346618743	9.085644994	4.744162448
1623334_at	CG12913	2.292435402	2.273604993	2.225966252	2.73404493	6.611678182	2.351408813	2.499582709
1636344_at	chp	3.302215227	3.552650425	3.240314267	3.195615082	7.645556211	3.855783972	8.777604528
1633570_at	CG1688	2.853849273	2.902881935	2.797221121	3.965283755	8.41074643	7.860967382	3.238226383
1626815_a_at	tadr	2.183249268	2.141796147	2.130106683	6.426591693	7.579369821	10.00910131	5.494478259
1640357_at	CG30161	2.204603827	2.363928335	2.163733361	11.19188198	9.153051611	10.83857946	4.431494558
1633649_s_at	trpl	2.546217215	2.613798409	2.513206155	2.854990589	7.874706341	4.350639691	7.711394768
1638944_at	CG34435	2.356294178	2.326031681	2.326031681	8.406880652	7.558203323	7.743724569	2.326031681
1624011_at	Cpr76Bc	2.620432263	2.708171191	2.591823014	2.915804638	8.206785245	2.628920522	7.586256891
1631794_at	CG6201	2.831123311	3.163732438	2.802736367	2.777320498	9.410104092	4.281667636	6.836356726
1638006_at	CG10211	2.564715858	2.373357439	2.543032385	2.528321168	6.729960005	5.742695437	2.618465437
1634953_at	CG3795	2.840398871	2.850666893	2.824837999	11.37609445	8.066344207	6.977634086	2.849460572
1629914_at	CG34281	2.142061689	2.146046691	2.130106683	4.556631704	6.497595118	10.23685158	3.668731517
1634123_at	CG14304	4.559259916	4.741855642	4.548591913	4.384644622	9.665564877	8.959116374	5.186287824
1630862_at	CG18432	2.138953458	2.140297451	2.130375676	2.74149687	6.558927582	2.141557817	2.246866033
1625347_at	CG14829	2.139113057	2.150340314	2.130626083	2.357391608	8.157413283	2.130496233	4.345117571
1641174_at	RFesP	2.130106683	2.130106683	2.130106683	2.130106683	9.260496021	3.871473467	3.708259566
1638584_at	CG9988	2.130106683	2.130106683	2.130106683	3.046073127	8.82211893	3.667939357	4.443498781
1627169_at	CG3264	2.130106683	2.130106683	2.130106683	2.130106683	8.029409366	8.103342531	2.181756837
1624898_a_at	Ark	2.40975874	2.409861617	2.40975874	2.829017846	7.934649292	2.203923431	3.568554139
1634816_at	CG8401	2.130106683	2.130106683	2.130106683	2.130106683	7.25402902	5.363602962	2.708951317
1623548_at	CG18269	2.130106683	2.325415941	2.130106683	2.130106683	6.892719915	2.162184617	7.081962826
1632081_s_at	CG32626	2.416728891	2.416728891	2.416728891	2.315454394	7.158483349	2.161873636	3.503106848
1638000_at	sala	2.130106683	2.130106683	2.130106683	2.130106683	6.826328988	7.140076703	4.424792765



1628030_at	CG18808	3.413937778	3.643723981	3.413937778	11.76126215	7.857427674	9.72585115	4.815914345
1634567_at	---	2.130106683	2.179374017	2.130106683	2.130106683	6.507609757	2.130106683	2.905210166
1624662_at	CG3106	2.130106683	2.130106683	2.130106683	2.130106683	6.278893392	2.130106683	4.656126683
1633651_at	Tk	2.130106683	2.130106683	2.130106683	2.217458368	6.211299071	2.262068647	2.130106683
1637782_at	CG12020	3.014333842	3.085085563	3.014784849	12.39498416	9.069327564	10.55368432	3.185124632
1633662_a_at	CG8290	2.947176264	2.817775606	2.952456974	3.758441727	7.141736907	2.306584794	5.226257928
1634301_at	CG14017	2.141865574	2.145675706	2.149485839	11.28508612	8.091672769	5.143898168	6.457363781
1637833_at	Jhe	3.722683324	4.038679733	3.738848823	5.320304627	7.78083904	2.964477582	6.105426293
1641099_a_at	Hr51	2.147447499	2.147447499	2.164788315	6.806325117	7.087061355	6.819403175	7.747783058
1624870_at	CG16853	2.168127182	2.159920771	2.189734858	11.4511411	9.048164502	7.523990271	2.168127182
1632751_at	CG34460	4.77483515	4.461465402	4.79740399	12.19959124	11.90122907	9.768027087	10.06515648
1641544_at	hubl /// spaw	2.637712268	2.637712268	2.66137031	10.12829367	7.010991185	3.3820026	4.467486418
1633305_at	Obp99a	9.830757624	10.00750358	9.854740717	14.02113867	14.27698533	13.93579189	13.93197687
1638948_at	slam	2.154580877	2.17905507	2.17905507	2.17905507	6.160161781	7.698475952	2.17905507
1630251_at	CG9624	2.130106683	2.212235096	2.156813403	12.71549555	8.619398525	10.67586105	2.173695681
1632705_at	ninaD	3.142868019	4.554306435	3.175152125	7.012626471	7.802917343	2.365549848	3.680369885
1628485_at	CG13564	2.669484113	2.701735222	2.725462299	11.97451841	6.869913308	7.200337761	2.710611923
1634486_at	CG30047	3.415756698	2.888615761	3.471746494	2.804247052	7.882671898	7.744525419	7.742110658
1630399_at	Cad99C	2.347200073	2.426802269	2.40747974	2.420361426	8.157543204	5.627246026	2.444388543
1635080_at	CG6059	2.950711601	2.68626099	3.014215222	11.7417962	7.544489366	4.436011202	3.128855793
1633632_at	CG32944	3.056769337	3.035950487	3.12425942	5.38634904	8.631420426	7.154244	5.317925049
1634229_at	CG8713	3.435573717	3.517423861	3.517423861	6.984199106	8.906341935	8.806416648	6.121356957
1636392_at	---	3.905979494	3.905979494	3.989295986	4.383679374	8.235877726	5.920031669	7.073946963
1625154_s_at	pot	2.955808454	2.497192471	3.046930104	3.378670226	7.131568644	4.388886097	4.963937535
1628818_at	CG17562	2.136116728	2.148728794	2.237382408	7.290899718	8.35617455	8.827253005	5.726913325
1624074_at	Obp56a	2.130106683	2.249807185	2.249807185	4.847264074	6.598266573	8.444244769	6.686730159
1625208_at	CG15393 /// Slh	4.148730447	3.071944219	4.288736691	3.559827601	9.227733515	4.397290473	5.092897079
1627570_a_at	CG8765	3.180700499	3.267161366	3.32386577	6.769106984	8.277826571	3.743791496	6.101122682
1630360_a_at	CG8202	2.227781546	2.214307261	2.383924412	2.655784758	7.098230224	2.140113318	4.355483597
1634488_s_at	CG33111 /// eIF4G2	5.730157505	4.65823058	5.918657975	5.795062867	10.07977136	6.861080557	7.574800765
1639641_at	CG8560 /// DsecCG8560	3.555057364	3.282304859	3.751465353	12.24854194	9.666260162	9.24776102	6.525197829
1640101_at	CG8152	7.450970384	7.525395704	7.720909425	10.22002263	12.42770411	9.058023279	11.35393254
1633279_s_at	CG33090	3.500430116	3.576731419	3.773442804	4.391757723	8.086859629	3.283807307	5.54360102
1630899_at	Fer1	3.695230403	3.20063996	3.973403362	4.672601416	7.72163779	4.210942855	6.366507091
1623377_at	CG14841	3.269747843	2.88007426	3.552209697	10.98688969	11.76774128	10.74374312	8.854320276
1623360_at	---	3.861756903	4.097306886	4.147447222	5.310474191	8.587609801	3.284213893	5.35106207

1636525_at	CG13541	3.021079842	3.103689706	3.32317342	11.68099589	7.597986409	7.403503048	2.882790409
1632552_at	rempA	3.394294742	4.289083218	3.700936638	5.427472653	7.584372599	6.705780457	5.690593309
1626027_at	Sr-CII	2.480178194	2.316508996	2.798166968	10.20528066	8.914158651	11.53255373	8.15290282
1630108_a_at	r-cup	3.226310752	3.264458454	3.560452681	10.30080299	7.367642298	7.100333243	3.26212251
1629448_at	CG14358	2.267535368	2.209572494	2.613878601	2.553163881	8.553539034	11.4426473	6.631649771
1631256_at	Upf2	4.536774496	5.761572771	4.88316438	7.244898942	8.756143031	4.883432537	7.654597831
1625673_at	CG12983	2.422216774	2.438582592	2.769164033	7.393396747	9.388343065	4.266640314	3.633110747
1639822_at	Tusp	3.89561389	2.985334064	4.259609969	5.954459654	9.491468678	7.847039144	8.890544317
1639268_at	CG13324 /// DyakGE13403	2.8367798	2.54254737	3.201354523	4.215498983	7.253189794	5.861062356	7.545826358
1627292_at	CG2898	3.031814102	3.121926395	3.413851337	11.25448615	10.41724687	8.082372402	5.577868851
1626358_at	Fer1	2.380809497	2.714398307	2.773110922	2.714340176	7.955872423	2.377722234	6.264423613
1634510_at	CG17324	3.018958714	2.537402897	3.418814904	6.153645312	8.11041016	5.021343906	7.410050458
1631126_at	gcm	2.287273061	2.229712382	2.704040826	4.947599358	6.669175731	8.852076318	8.66559281
1639916_at	---	6.935327715	7.206406615	7.352678489	4.924895322	11.15307884	3.77048608	8.998941677
1640604_at	CG3309	4.407647403	4.668867425	4.825717667	4.642260264	8.863236133	4.202683872	6.744917894
1629174_at	CG42284	2.568915852	2.65922364	3.031184028	2.90894353	6.813417216	3.475260765	4.048597361
1640155_at	---	2.784125402	3.161445076	3.246609213	3.09883619	7.083129334	2.222053835	4.149463607
1634494_at	CG17648	2.134741551	2.147795697	2.605575302	11.17700047	6.173702801	6.842034693	6.930141731
1627077_at	CG12917	2.271045521	2.370775513	2.761717382	11.11160199	9.171147771	9.057433444	4.770771332
1633268_s_at	Nha1	4.004847352	4.527270872	4.518780332	4.596269399	8.657676897	7.338916357	8.652865632
1636719_s_at	CG5316	4.485549046	4.522314314	5.001764046	7.460645781	9.245496083	3.022328526	7.477027847
1631319_at	CG32462	3.686396975	3.686396975	4.218484523	11.98611473	7.886406701	10.51957069	3.532132687
1637587_at	CG16716	2.188966017	2.256814325	2.722937883	13.20468536	7.44899219	10.95539752	6.004658118
1626519_at	CG15526	3.192985967	2.805655952	3.763654419	9.37821561	8.183088799	9.733833111	6.284096745
1626067_a_at	CG7311	2.583870413	2.872012053	3.165849714	11.42297184	8.804019853	8.048680595	2.372705686
1629472_s_at	CG9356	7.295912938	7.484749854	7.900224909	9.270257681	11.41083902	9.159328654	9.721835273
1627707_at	CG3313	7.357714312	7.570121998	7.989382639	10.60673943	11.50630013	8.004804945	9.479509627
1623881_s_at	Sirt4	7.328627998	7.715133277	7.979156212	9.451658364	11.34525718	9.189512584	10.30234408
1626222_at	Ser8	2.722524904	2.81621244	3.3772847	3.069711873	7.270403403	7.263800424	2.765321633
1639918_at	CG15042	2.389848924	2.411757336	3.070267801	7.664414329	8.155397447	2.431749528	5.420010302
1633713_at	CG33260 /// Trl	3.528136399	3.411092891	4.210829043	8.805285476	8.439135755	6.498112714	3.918948777
1640988_at	CG14339 /// DsecGM16790	3.121942631	3.196753696	3.818586827	9.927318703	8.887266193	7.755824286	6.026000531
1630373_at	CG4935	7.311772605	7.541398149	8.033295072	10.34277647	11.44681136	7.433030098	9.354851924
1640532_at	CG30356	2.811538848	2.628309306	3.534695109	12.20367227	7.289564171	7.322259133	5.867953412
1625777_at	CG12692	2.822071647	2.57638724	3.563367944	10.14012746	11.168733	5.93225564	4.909204722
1636082_at	CG14212	3.112260124	3.217893708	3.96585569	10.63822264	9.42306222	9.272502443	4.612987297

1640813_at	CG3156	8.022313016	8.045715731	8.899328253	10.10367496	12.72187302	10.203295	10.46763903
1633421_at	CG8584	3.226113005	2.905334601	4.108738022	12.3535216	8.2899841	12.04653271	9.738800914
1635237_at	Ing3	6.736555721	6.990081092	7.638025768	10.2011179	10.73952914	8.366761124	8.857713216
1632816_at	Es2	7.455573801	7.962235702	8.39322086	10.45517732	11.90477119	10.01137114	10.26912054
1637728_at	CG8508	2.558950149	2.78196086	3.508859401	13.320829	7.861377809	10.38234217	7.918722682
1640883_a_at	CG2082	3.22124526	3.054499412	4.192088917	10.72919721	7.72619745	7.908645288	3.7255421
1634854_at	CG16989	5.058841081	5.511791908	6.031094326	6.795199333	9.714960319	6.652769246	7.858176015
1625054_at	CG1407	2.284378356	2.321181648	3.267308775	3.763193996	9.302208043	2.487540747	5.878377756