Supplementary Web Appendix

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ADDITIONAL METHODS

MR & PET Imaging acquisition. MR imaging was performed on a 3T GE Signa HDxt scanner (software version HD23.0_V03_1614.b). Sagittal volumetric gradient echo T1-weighted (T1w) MRIs (TR = 7.27 ms, TE = 2.7, inversion time = 450 ms, matrix = 224 x 512 x 512, voxel = 0.7 x 0.47 x 0.47 mm) were obtained pre-operatively and on post-operative day 0 or 1 following catheter implantation to confirm catheter placement prior to infusion initiation. For the first infusion, MRIs were collected ~8 hours, ~14 hours, ~24 hours, and ~48 hours after the start of infusion, and ~8 hours, ~14 hours, and ~24 hours after completion. For the remaining infusions, MRIs were collected immediately prior to and ~48 hours after the start of each infusion. ¹⁸F-FDG PET imaging was performed on Patients 3, 4 and 5 using a Siemens Biograph 64 mCT (software version VG60A; matrix = 400 x 400 x 148, voxel = $1.0 \times 1.0 \times 1.5 \text{ mm}$) pre-operatively, ~48 hours after start of pulse 1, and ~24 hours after start of pulse 4.

MR & PET Imaging analysis. MRI data were processed with FMRIB Software Library (FSL version 6.0.0) (1) and Matlab (2020b, MathWorks) software. T1w and PET images from all scanning sessions were co-registered to the pre-implantation T1w scan using FSL-FLIRT (linear, 6 degrees of freedom). T1w images were intensity normalized using histogram matching to a healthy control subject. To calculate the spatial distribution of the infused gadolinium contrast, the pre-implantation T1w image was subtracted from all subsequent T1w images. The difference images were then thresholded and binarized to create a 3D mask of the infused volume at each time point and the mask volumes were then plotted as a function of time for each patient. To estimate the time to peak volume and maximum achieved volume, the time course for each patient's first infusion was fit to a three-parameter gamma function

$$y_{fit} = y_{max} * \left(\frac{t}{t_{max}}\right)^{b*t_{max}} * e^{b*(t_{max}-t)}$$

 $y_{fit} = y_{max} * \left(\frac{t}{t_{max}}\right)^{b*t_{max}} * e^{b*(t_{max}-t)}$ where y_{max} represents the peak volume, t_{max} represents the time of peak volume and b represents the shape of the function. To estimate backflow from the catheter, a mask was drawn around the infused volume located in the subdural CSF at the base of the catheter and the volume plotted as a function of time. All ¹⁸F-FDG-metabolism images were intensity normalized to the patient's pre-infusion, contralesional hemisphere using histogram matching. Post-infusion ¹⁸F-FDG-metabolism images were converted to percent signal change by dividing by the pre-infusion image. The maximum infusion mask was used to estimate the effect of TPT on ¹⁸F-FDG metabolism.

Immunohistochemistry. Paraffin embedded tissue was serially sectioned into 5µM sections mounted on immunoblank slides. Immunoperoxidase was performed using Antibodies to Sox2 (Rabbit, abcam #ab92494), Ki67 (Rabbit, Cell Signaling #9129), CD68 (Mouse, abcam #ab955), Neun (Mouse IGg1, Millipore #MAB377) under a standard staining protocol with deparaffinization, antigen retrieval using 10mM sodium citrate buffer, Vectastain ABC Kit (PK4001 for rabbit, PK4002 for mouse) and Dako DAB+ liquid substrate (#K3468). After peroxidase staining, slides were immersed in dH₂O, counterstained with hematoxylin, dehydrated and coverslips were mounted using Permount mounting medium (Fisher Chemical #SP15-100).

Immunohistochemistry quantification. Stained slides were scanned and digitized using a Leica SCN400 automated image digitizing system. A total of 87 MRI-localized biopsies were quantified for each stain, including pre-CED n=37) and post-CED (n=50). For each SCN file, ImageJ was used to outline tissue area at 20x magnification. Semi-automated quantification of DABstained cells and nuclei was performed as follows. Images were split into blue channels for nuclei quantification and red channels for DAB quantification. Images were converted to 8-bit, normalized and thresholded using the local thresholding algorithm first described by Phansalkar et al. ¹⁵ The local threshold is determined using the following algorithm: t=mean*(1+p*exp(-q*mean) + k*((stdev/r)-1))where mean and STD are calculated from a 3x3 square of pixels centered on the pixel of interest. Values of k, r are optimized based on multiple high-powered fields of masks ensuring accurate quantification on each image. Concordance between manual and semiautomated quantification was confirmed for each stain with r² value greater than 0.90 in images from each patient before application to all biopsies. Labeling indices were calculated from dividing DAB+ cells over total number of cells (nuclei). Labeling indices pre-CED and post-CED were compared statistically using an unpaired student's T-test, as there were an unequal number of samples between pre- and post-resection due to the nature of the study design.

RNA isolation, quantification and sequencing. Biopsies (n=86) were lysed using a 5mm stainless steel bead (OIAGEN, 69989). RNA was extracted from tissue lysate using the RNeasy Mini kit (QIAGEN, 74106). Only samples with RNA Integrity Number (RIN) greater than 6 were used for sequencing. Expression profiles were generated using the Illumina TruSeq v2 RNA-Seq kit with 80 million paired end base reads on a Novaseq 6000 sequencer. Alignment and mapping of RNA sequencing reads was done in partnership with the Columbia Sulzberger Genome Center. Transcripts were pseudo-aligned, mapped and quantified to counts using the Kallisto pipeline. 16

RNAseq normalization, Differential gene expression analysis, and gene set enrichment analysis. All downstream RNA sequencing analysis was performed in the statistical programming language R (version 4.0.3). Raw transcript counts for each sample were normalized via the "DESeq2" package after filtering out genes that are not protein-coding. Differential gene expression analysis was also performed via DESeq2, comparing post-treatment biopsies (n=51) to pre-treatment biopsies (n=35), both on a patient-by patient level, as well as by pooling samples across all patients (2). Volcano plot and heatmap were generated based on normalized expression between pre-and post-CED biopsies, generated via "EnhancedVolcano" package(3). Gene Set Enrichment Analysis

(implemented via the GSEA desktop version 4.1.0) was performed using the 50 Cancer Hallmarks gene sets patient-by patient comparing pre-treatment and post-treatment MRI-localized biopsies. Fisher p-integration was performed on FDR-adjusted p-values across all patients for each pathway, and significant pathways (p<0.05) were visualized on a heatmap with normalized enrichment scores for each patient.

Glioma State Analysis. GSVA analysis(4) was performed on all MRI-localized biopsies (86 samples) using gene signatures for six distinct glioma cell states derived from single-nuclei RNA sequencing (snRNAseq) (5), as well as scRNAseq signatures derived from Neftel et al(6), and a heatmap was generated displaying the enrichment scores for each gene set for each biopsy, scaled across all samples. Each biopsy was annotated by the glioma cell state it was most enriched in (Supplementary Table S4), and Pearson's chi-squared test was performed to statistically quantify change in phenotype between conditions.

Measurement of TPT concentrations. TPT concentrations were measured in tissue samples using matrix-assisted laser desorption/ionization mass spectrometric imaging (MALDI MSI) methodology. *MALDI tissue preparation*

The MALDI MSI tissue mimetic for drug quantification of TPT was adopted from Groseclose and Castellino (7) and has been further developed for several MALDI MSI studies (8, 9). Here, a tissue microarray (TMA) mold with 1.5 mm core diameter channels composed of 40% gelatin was used to create a concentration ladder of TPT. To account for the tissue matrix, human autopsy brain homogenates were spiked with varying concentrations of TPT ranging from 1 - 20 µM. The spiked homogenates were punched into the TMA channels and frozen at -80 °C. Brain specimens and TMA were sectioned at 10 µm thickness, and thaw mounted directly onto indium tin oxide (ITO) slides. Serial sections were used for MALDI MRM MSI and brightfield microscopy imaging (Zeiss Observer Z.1, Oberkochen, Germany) of hematoxylin and eosin (H&E) staining. To avoid TPT interconversion between the lactone and carboxylate forms, a low pH phosphate solution was sprayed first on the tissues using a TM-sprayer (HTX imaging, Carrboro, NC). Two coats of the phosphate buffer solution (pH 3) were sprayed at a flow rate (0.05 mL/min), spray nozzle velocity (1200 mm/min), nitrogen gas pressure (10 psi), spray nozzle temperature (80 °C), and track spacing (2 mm) were sprayed on the tissue samples. The MALDI matrix 2,5-dihydroxybenzoic acid (160 mg/mL) was dissolved in 70:30 methanol: 0.1% TFA with 1 % DMSO. The ITO slides with tissue and mimetic sections coated with phosphate solution were sprayed with the matrix using a TM sprayer with a two-pass cycle at a flow rate (0.18 mL/min), spray nozzle velocity (1200 mm/min), nitrogen gas pressure (10 psi), spray nozzle temperature (75 °C), and track spacing (2 mm).

MALDI mass spectrometry imaging

Matrix assisted laser desorption ionization (MALDI) MS imaging and quantitation of TPT from clinical specimens was performed using a timsTOF fleX mass spectrometer (Bruker Daltonics, Billerica, MA) operating in positive ion mode. A multiple reaction monitoring (MRM) method was applied to improve sensitivity and selectivity for quantitation. Using the ESI configuration on the dual-source instrument, a method for TPT was developed in which the ion transfer funnels, quadrupole, collision cell, and focus pre-TOF settings were optimized. Calibration of the mass range for each method was performed through the direct infusion of an Agilent tune mix solution (Agilent Technologies, Santa Clara, CA) and the MRM settings were optimized with direct infusions of TPT. The optimal collision energy of 20 eV for TPT was determined with an isolation width of 3 m/z. The mass range was selected to encompass both the precursor and product ions and was set to m/z 300-600 for TPT. For MALDI MSI quantitation, the transition of precursor to product was m/z 422.171 → 377.111 for TPT. A spatial resolution of 100 μm was implemented for MALDI MSI sequences. A 5,000 Hz laser repetition rate and 3,000 laser shots per pixel were used. The 12 biopsies and a triplicate of the TPT mimetic were imaged and data analysis and visualization were performed using the SCiLS Lab software (version 2020a premium, Bruker Daltonics, Billerica, MA). The data was normalized using total ion current (TIC). Using the three technical sections of the TPT mimetic, the pixels of each concentration channels were averaged. The MALDI signal intensity was calibrated for quantitation of TPT using a linear regression of the averaged ion intensity from each mimetic concentration. Relative standard deviation (RSD) for each concentration was calculated (0 µM- 18.3%, 1 µM- 11.5%, 3 µM- 27.9%, 5 µM- 16.9%, 10 µM- 10.3%, and 20 µM- 12.1%,) and the limit of detection (LOD) and limit of quantification (LOQ) were based on signal-to-noise (S/N) ratio of > 3 and > 10 respectively.

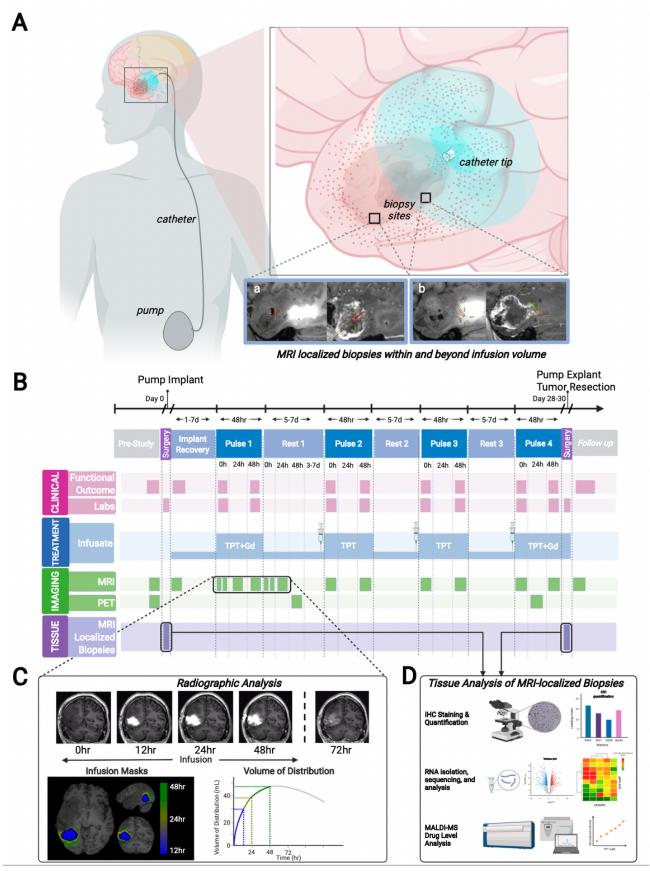
Additional Safety Data Unrelated to CED

Patient 4 safely tolerated CED of TPT but suffered a stroke during surgical resection of the tumor; this adverse reaction is not directly related to the treatment delivery but affected the patient's postoperative Quality of Life (QoL) and performance outcomes. Patient 5 had arm and face weakness five days after completion of treatment due to a middle cerebral artery stroke which was attributed to a radiographically confirmed stenosis of the M2 branch from prior radiation therapy. SAEs and symptoms **prior** to and after enrollment in the trial are further summarized in Supplementary **Table 1**. Neither hematologic nor hepatic effects of the treatment were noted (**Supplementary Fig. S2**).

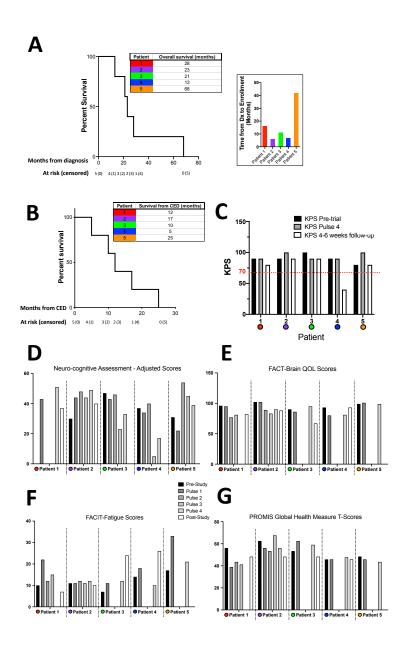
Patient 4 had a decrease in KPS to 40% due to the stroke during post-treatment tumor resection described above. Patient 5 maintained the baseline KPS of 80% despite the transient stroke after completion of treatment. No cognitive side effects were noted during or at the completion of the 4 treatment cycles (Supplementary Table S1, Supplementary Fig. S1E). A decrease in neurocognitive assessment score was noted in patient 3 after pulse 3 but recovered during pulse 4. These scores were not reflected in clinically significant cognitive deficits. A similar course was noted in patient 4 which was attributed to the overall declining health of the patient. Patient 4 had a very poor clinical course overall with only 5 months survival after CED and 13 months overall survival.

Additional molecular results

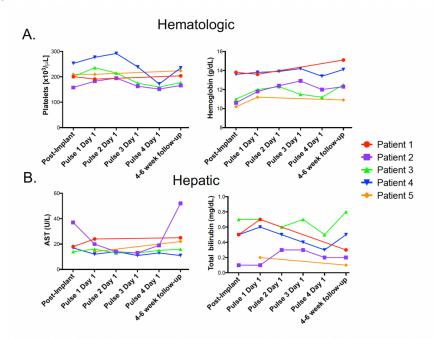
Chronic CED of TPT effectively targets proliferating tumor cells and shifts glioma phenotype. To understand the effects of TPT infusion on specific subpopulations of glioma cells, single-sample gene set en-richment analysis (GSVA) was performed on all 86 MRI-localized biopsies using gene signatures derived from snRNAseq for distinct glioma cell states, including proliferative states (gl Pro1 and gl Pro2), Proneural states (gl PN1 and gl PN2) and Mesenchymal states (gl Mes1 and gl Mes2) (Fig. 3J). In order to fully ascertain the spectrum of treatment effects, post-CED biopsies were further stratified by whether they were inside or outside the maximum volume of distribution, as described above. When comparing post-CED biopsies taken from within the treatment volume to the pre-CED biopsies, there was a significant shift in the enrichment scores for these glioma cell states, with a significant decrease in the samples showing highest enrichment for the proliferative or proneural signatures and a significant increase in the samples showing highest enrichment for mesenchymal signatures (p<0.001). Notably, the majority of post-CED samples from within the treatment volume showed the highest en-richment for the gl Mes2 snRNAseq signature, and none showed highest enrichment for the proliferative signatures (gl Pro1 and gl Pro2). This analysis was repeated using glioma cell state gene sets derived by single-cell RNA sequencing (scRNAseq) as reported by Neftel et al, also demonstrating a significant enrichment (p=0.01) of mesenchymal signature after treatment (Supplementary Figure 5A), Canonical mesenchymal genes were significantly upregulated post-CED within the treatment volume, and proliferation-associated and glioma progenitor genes were significantly negatively differentially expressed (Figure 3I, Supplemental Table S5). In contrast, comparing the pre-CED samples to the post-CED samples taken outside the treatment volume did not show a significant change in the distribution of enrichment scores for the glioma cell state signatures(p=0.07). These results show that chronic CED of TPT causes a significant depletion of proliferating/proneural signatures and an increase in mesenchymal signatures selectively within the treatment volume.



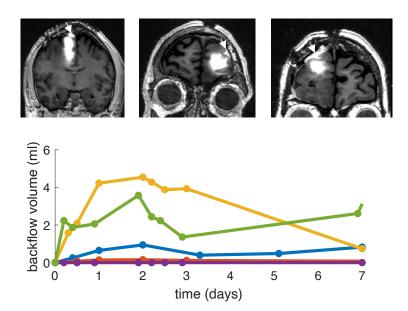
A: Overview of the implantable chronic CED pump-catheter system, as well as drug infusion and acquisition of MRI-localized biopsies. Clinical Trial Protocol is available as part of the Supplementary Material. A thin catheter was stereotactically placed midway between the tumor margin and the margin of the expected resection cavity, connected to silastic tubing that was tunneled subcutaneously and connected to a microinfusion pump implanted into the abdomen. MRI-localized biopsies were taken both at time of catheter implant and after treatment at explant. At explant, biopsies were taken both within and outside the volume of infused contrast. B: Schematic timeline describing the overall flow of the clinical trial. Patients enrolled in the trial underwent a baseline MRI and PET scan prior to undergoing stereotactically MRI-guided biopsies and implantation of the catheter with subcutaneous pump placement. TPT was delivered over 48 hours at 200 uL/mL in 4 cycles, with the pump refilled subcutaneously before cycles 2, 3 and 4 (syringe), and 5-7 days of rest between infusions. MRIs were performed at set time points throughout the four cycles. Functional outcome measurements, physical exams, and basic lab panels were collected and assessed throughout the duration of treatment. At the completion of the 4 cycles the pump was explanted, further MRI-localized biopsies were acquired, and the tumor was resected. C: Several MRIs were performed during the first pulse of TPT+Gd to characterize volume of distribution of the infusate, as well as to build radiographically-defined maximum infusion masks for further analyses. D: MRI localized biopsies collected before and after CED underwent tissue analysis, including immunohistochemical staining and quantification, as well as RNA isolation, sequencing and analysis. On a small subset of these biopsies, MALDI-MSI was performed to quantify concentration of TPT in the tissue after infusion.



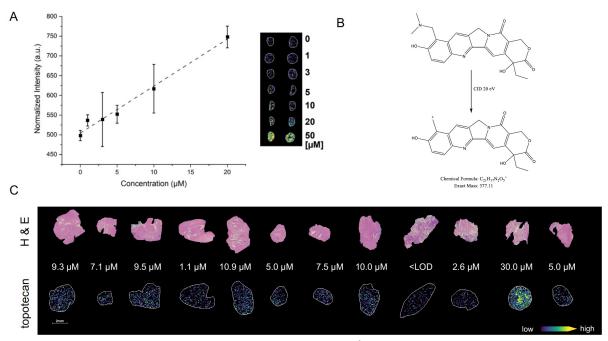
A: Kaplan Meier curve demonstrating overall survival from initial diagnosis, with accompanying bar graph depicting time from initial diagnosis to enrollment in the clinical trial /overall survival. **B:** Kaplan Meier curve demonstrating survival from initiation of CED TPT. **C:** Bar graphs showing KPS scores pre-trial, at the end of Pulse 4 and at 4-6 weeks follow-up. Red line marks a KPS of 70 considered to be the cutoff for significant changes in functional status. **D:** Bar graphs showing neurocognitive assessments throughout treatment. **E-G:** Bar graphs showcasing QoL assessment scores throughout treatment for all 5 patients.



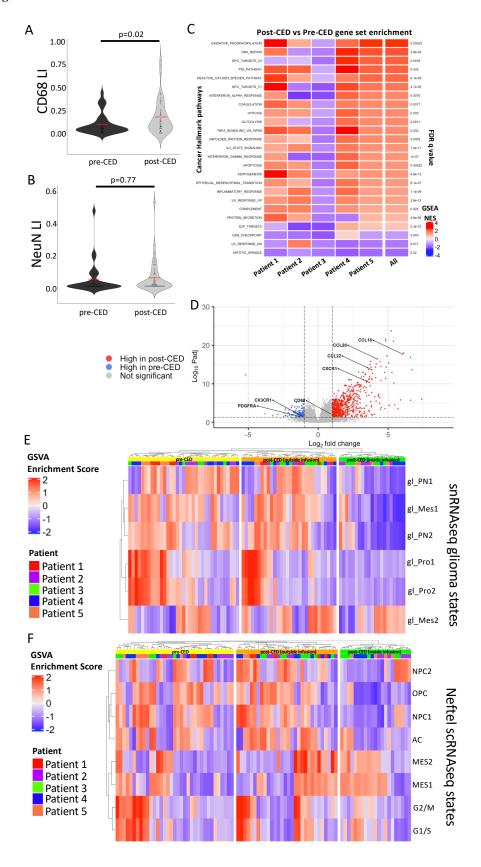
A-B: Laboratory values throughout the 4 pulses for platelets, hemoglobin, AST and total bilirubin to demonstrate systemic hematologic and hepatic safety.



A small volume of contrast flowed back along the catheter to the brain surface (white arrows), with a time course similar to the volume infused into the brain. The maximum backflow volume was 8.8% (1.8 mL) of the volume infused into the brain suggesting that most of the drug was successfully delivered to the targeted tissue.



A: Calibration curve for TPT MALDI MSI quantification with an $R^2 = 0.984$. **B:** The chemical structure of TPT precursor and product ion used for tissue quantification. **C:** H&E and TPT ion image of 12 post-CED biopsies, accompanied by estimates of average TPT concentration for each sample with detectable levels of TPT with maximum pixel values above the LOD (3.2 uM).



A: Violin plot displaying quantification of CD68 by labeling index across all MRI-localized biopsies from all patients, comparing biopsies taken pre- and post-CED using a student's T-test (n=87). B: Violin plot displaying quantification of NeuN by labeling index across all MRI-localized biopsies from all patients, comparing biopsies taken pre- and post-CED using a student's T-test (n=87). C: Heatmap displaying patient-by-patient gene set enrichment analysis (GSEA) comparing MRI-localized biopsies before and after treatment for MSigDb "Cancer Hallmarks" ontologies. Red indicates a pathway is enriched post-CED, while blue indicates the pathway is enriched pre-CED. Significantly enriched gene sets across all patients via Fisher integration are displayed on the left of the heatmap, with the corresponding adjusted FDR q-value to the right. D: Volcano plot displaying differentially expressed genes between pre-CED and post-CED MRI-localized biopsies within volume of treatment across all 5 patients (n = 56). Cutoffs were log-2-foldchange > |1| and adjusted p-value < 0.05. Select significantly differentially expressed lineage-associated genes are marked. E: Heatmap displaying GSVA analysis of MRI-localized biopsies for six snRNAseq-derived glioma cell state signatures. GSVA scores for a given gene set are scaled across all samples. On the top of the heatmap, each biopsy is annotated by patient, as well as whether the biopsy was taken pre-CED or post-CED. The post-CED biopsies were further radiographically stratified by whether they were inside or outside the maximum volume of distribution. GSVA scores for a given gene set are scaled across all samples. On the top of the heatmap, each biopsy is annotated by patient, as well as whether the biopsy was taken pre-CED or post-CED. The post-CED biopsies were further radiographically stratified by whether they were inside or outside the maximum volume of distribution. F: Same analysis as E except with Neftel et al scRNAseq-derived glioma state signatures.

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Patient 5	Patient 4	Patient 3	Patient 2	Patient 1	Patient	Patient 5	Patient 4	Patient 3	Patient 2	Patient 1	Patient	Patient 5	Patient 4	Patient 3	Patient 2	Patient 1	Patient	Patient 5	Patient 4	Patient 3	Patient 2	Patient 1	Patient	Patient 5	Patient 4	Patient 3	Patient 2	Patient 1	Patient
25	5	10	17	12	Time from first CED to Death (months)	42	7	11	6	16	Time Dx to enrollment (months)	2/17/00	2/25/00	2/29/00	2/26/00	2/2/00	Age at diagnosis	R, Frontal	R, Temporal	L, Frontal	R, Temporal	R, Frontal	Tumor Location	П	M	M	F	M	Sex
68	13	21	23	28	Overall survival (months)	7/31/19	3/11/19	2/20/19	10/12/18	2/22/18	ate of pump explant/resection	7/8/19	2/14/19	1/24/19	9/17/18	1/22/18	Date of pump placement	3.5 x 2.6 cm	2.0 x 1.6 cm	2.3 x 2.2 cm	4.0 x 2.8 cm	1.6 x 1.5 x 1.9 cm	Tumor Size	White	White	White	White	White	Race
						8/20/21	7/23/19	12/16/19	3/4/20	2/2/19	Date of Death	51	56	61	58	34	Age at enrollment	12/16/15	6/22/18	2/23/18	3/14/18	9/8/16	Date first resection	GBM Grade 4	GBM Grade 4	GBM Grade 4	GBM Grade 4	Anaplastic astrocytoma Grade 3	Initial Diagnosis

Patient	Prior Treatments
Patient 1	 Concurrent RT/Temozolomide – 11/3/16 – 12/14/16 Adjuvant Temozolomide – January 2017 – 11/11/17 (11 cycles completed)
Patient 2	 Concurrent RT/Temozolomide – 4/10/18 – 5/21/18 Neratinib 240mg PO daily (INSIGhT R5763 Trial) – 6/19/18 – 8/14/18
	• Concurrent RT/Temozolomide – 3/25/18 – 5/7/18
Patient 3	 Adjuvant Temozolomide (5 cycles) – 6/7/18 – 12/15/18 Pembrolizumab (Keytruda) IV – 4/10/18 – 4/10/18
	• Optune – 7/4/18 – 8/8/18
	• (Atorvastatin, Pravastatin, Doxycycline, Mebendazole, Metformin) + Astragalus – 7/22/18 – 8/31/19
	• Concurrent RT/Temozolomide - 7/23/18 - 8/31/18
rallelle 4	• Optune – 9/10/18 – 2/7/19
	 Adjuvant Temozolomide (4 cycles) – 10/1/18 – 12/28/18
	 Concurrent RT/Temozolomide – 1/13/16 – 2/25/16
Patient 5	• Adjuvant Temozolomide – 4/5/16 – 9/18/16
9	 Opdivo – 1/26/16 – 1/30/18 Optune – 4/8/16 – 6/10/19

Primar	y tumor		Recurrent tumor	
		Stereotactic biopsy	Catheter explant/tumor resection	tumor resection
IHC	Molecular pathology	IHC	IHC	Molecular pathology
Diffusely infiltrating	IDH1 wt, MGMT	Varying amounts of	Variability in cellularity	IDH1 wt, MGMT
glial neoplasm of		hypercellularity in brain	with glioma-infiltrated	unmethylated, + TERT, -
variably increased	Amplification,	parenchyma with	brain parenchyma and	EGFR vIII, - 1p/19q
cellularity. The tumor	Chromosome 7	scattered cells showing	marked treatment effect	deletion
cells show prominent	polysomy, - 1p/19q	nuclear atypia indicative of	that is causing necrosis,	
nuclear pleomorphism	deletion	infiltrating glioma cells. No	astrogliosis and	
with some tumor cells		mitotic figures were seen	microgliosis most	
having large and		but the Ki-67 proliferative	prominent in the area	
markedly atypical		index was elevated up to	adjacent to the catheter.	
nuclei. Three mitotic		approximately 6%.	The proliferation index	
figure is seen.		Reactive changes and	varies across the	
Vascular proliferation		hyalinized vasculature	specimen, and is highest	
and necrosis are not		were seen, consistent with	in regions furthest from	
identified. The Ki67		treatment effect.	the catheter, in the most	
proliferation index is		Mutated isocitrate	rostral portion of the	
increased, with up to		dehydrogenase-1 (IDH-1;	specimen, where a KI67	
3.2% (32/1000) of		R132H mutation):	labeling index of up to	
cells staining positive.		Negative	19% is seen. The Ki-67	
Glial fibrillary acidic		Alpha thalassemia/mental	proliferation index is	
protein (GFAP):		retardation syndrome X-	elevated up to 12.0%	
diffusely positive		linked (ATRX): Labels a	(120 labeled cells of	
Epidermal growth		subset of nuclei	1000 total cells).	
factor receptor		Epidermal growth factor	Glial fibrillary acidic	
(EGFR): strongly		receptor (EGFR): Weakly	protein (GFAP): Diffusely	
positive		stains a subset of cells	positive; highlights	
Phosphatase and		Phosphatase and tensin	reactive gliosis	
tensin homolog		homolog (PTEN): Negative	Sox-2: Highlights a	
		Molecular pathology ating IDH1 wt, MGMT of unmethylated, - EGFR ased Amplification, tumor Chromosome 7 minent polysomy, - 1p/19q orphism deletion for cells fration fration fration mitotic Molecular pathology Unmethylated, - EGFR MGMT OF Chromosome 7 mitotic fration fr	Molecular pathology ating IDH1 wt, MGMT of unmethylated, - EGFR ased Amplification, tumor Chromosome 7 minent polysomy, - 1p/19q orphism deletion for cells fration fration fration mitotic Molecular pathology unmethylated, - EGFR Amplification, polysomy, - 1p/19q fration fration fration fration mitotic Molecular pathology Lacidic M	Primary tumor Stereotactic biopsy Molecular pathology IHC Molecular pathology IHC Variabili plane of unmethylated, - EGFR hypercellularity in brain parenchyma with sased Variabili or cells showing with glic manunts of variabili parenchyma with scattered cells showing marked nuclear atypia indicative of that is complished parenchyma with scattered cells showing marked nuclear atypia indicative of that is complished parenchyma with scattered cells showing marked infiltrating glioma cells. No astroglished promine index was elevated up to approximately 6%. Reactive changes and promine index was elevated up to adjacer approximately 6%. The promine index was elevated up to adjacer approximately 6%. The promine index was elevated up to adjacer approximately 6%. The promine index was elevated up to adjacer approximately 6%. The promine index was elevated up to adjacer approximately 6%. The promine index was elevated up to adjacer approximately 6%. The promine index was elevated up to adjacer approximately 6%. The promine index was elevated up to adjacer approximately 6%. The promine index was elevated up to adjacer approximately 6%. The promine index was elevated up to adjacer approximately 6%. The promine index was elevated up to adjacer approximately 6%. The promine index was elevated up to adjacer approximately 6%. The promine index was elevated u

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Patient 2
hypercellular glial neoplasm with numerous mitotic figures, glomeruloid vasculature and occasionally pseudopalisading necrosis. Scattered microcalcifications are seen. The neoplastic cells are moderately pleomorphic with hyperchromatic nuclei. Ki-67 is variably increased with up to approximately 30-40% of tumor cells. Mutated isocitrate dehydrogenase-1 (IDH-1; R132H mutation): Negative Alpha thalassemia/mental retardation syndrome X-linked (ATRX):
IDH1 wt, MGMT unmethylated, + TERT, - EGFR vIII, - 1p/19q deletion
Diffusely infiltrating glioma in the setting of treatment effect. reactive astrocytosis (highlighted with immunostains for GFAP), patchy microgliosis (highlighted with immunostains for CD68) and a modest lymphocytic infiltrate (highlighted with immunostains for CD3). A subset of tumor cells show marked cellular atypia with large hyperchromatic nuclei. Gemistocytes, with abundant eosinophilic cytoplasm are also seen. No mitotic figures are seen. No glomeruloid-type vascular proliferation is identified, however reactive vascular changes, including thick hyalinized vessels, are noted. Necrosis is also seen. The Ki-67
diffusely infiltrating glioma and reactive changes consistent with treatment effect. In some areas the recurrent glial neoplasm exhibits the histopathologic hallmarks ofglioblastoma, with marked nuclear atypia, pseudo-palisading necrosis, and microvascular proliferation. Many areas also show reactive changes associated with treatment effects, including fibrosis, vascular hyalinization, lymphocytic inflammation, and numerous macrophages. Neoplastic cells show fibrillary processes in some areas and have hyperchromatic pleomorphic nuclei. Mitotic figures are not
IDH1 wt, MGMT unmethylated, - TERT, EGFR vIII, + EGFR amplification, - 1p/19q deletion

	Patient 3
dehydrogenase-1 (IDH-1; R132H mutation): negative p53: accumulated in	glial neoplasm with areas of high cellularity, glomeruloid vascular proliferation and necrosis. Numerous mitotic figures are identified. The tumor cells are atypical and have pleomorphic hyperchromatic nuclei. In areas, prominent perivascular lymphocytic infiltrates are noted. Ki67 proliferation index is variably increased, with up to approximately 30% of tumor cells. Mutated is octitrate.
	IDH1 wt, MGMT methylated, + TERT, - EGFR vIII
R132H mutation): Negative ATRX: Preserved P53: Positive in a subset	glioma with variable mitotic neoplasm, with are activity, atypia, and increased cellularity. The Ki67 labeling index is increased, with up to 30-40% contralateral to prior tumor, and 5-10% ipsilateral to prior tumor. Treatment associated changes including astrogliosis, microgliosis, variably represented in the biopsies. No necrosis is seen. Glomeruloid-type vascular proliferation is not identified, however, mutated isocitrate Diffusely infiltrating neoplasm, with are high cellularity and pleomorphism, with are high cellularity. In eleptomenity and pleomorphism, ami many areas showing macrophages, necrotumor. In elements and perivascular hyalinization, and perivascular inflammation. The edematous, fibrotic inflamed. Pseudopalisading necrosis is proliferation are not cells show fibrillary processes in some hypertrophic reactive-type areas and have high cellularity and pleomorphism, with are high cellularity and pleomorphism, with are high cellularity and pleomorphism, ami many areas showing gliosis, numerous macrophages, necrotumor. The dematous, fibrotic inflamed. Pseudopalisading necrosis proliferation is not cells show fibrillary processes in some hypertrophic reactive-type areas and have hyperchromatic, pleomorphic nuclei.
figures are seen. The Ki67 proliferation index is variably increased, with up to approximately 20%	Diffusely infiltrating glial neoplasm, with areas of high cellularity and pleomorphism, amid many areas showing gliosis, numerous macrophages, necrosis, vascular hyalinization, and perivascular inflammation. The leptomeniges are edematous, fibrotic, and inflamed. Pseudopalisading necrosis and glomeruloid vascular proliferation are not evident. The neoplastic cells show fibrillary processes in some areas and have hyperchromatic, pleomorphic nuclei.
	IDH1 wt, MGMT methylated, + TERT, - EGFR vIII

Patient 4	
surgery performed at (
	- -
	IDH1 wt, MGMT unmethylated, + TERT, -EGFR vIII
arranged in nests, cords, and sheets with deposition of myxoid matrix in the background. The neoplastic cells are irregular, round to oval, hyperchromatic, with no conspicuous nucleoli, and show more noticeable cytoplasm with eccentric nuclei. In other areas areas with apoptotic and sheets with deposition of rarefied white matter containing gemistocytes and inflammatory cells. Geographic necrosis, pseudopalisading necrosis and glomeruloid vascular proliferation are seen. The predominant population of neoplastic cells has high nuclear to cytoplasmic ratios and a small amount of eosinophilic cytoplasm. The nuclei are irregular, round to oval, hyperchromatic, with no conspicuous nucleoli, and may show molding. Frequent mitotes are noted. The Kienstein one of the population of neoplastic cells has high nuclear to cytoplasm. The nuclei are irregular, round to oval, hyperchromatic, with no conspicuous nucleoli, and may show molding. Frequent mitotes are noted. The Kienstein of population of neoplastic cells has high nuclear to cytoplasmic ratios and a small amount of eosinophilic cytoplasm. The nuclei are irregular, round to oval, hyperchromatic, with no conspicuous nucleoli, and may show molding. Frequent mitotes are noted. The Kienstein of population of neoplastic cells wascular proliferation are seen. The predominant population of neoplastic cytoplasmic ratios and a small amount of eosinophilic cytoplasm. The nuclei are irregular, round to oval, hyperchromatic, with no conspicuous nucleoli, and may show molding. Frequent mitotes are noted. The Kienstein of population of neoplastic cells wascular proliferation are seen. The predominant population of neoplastic cytoplasm. The nuclei are irregular, round to oval, hyperchromatic, with no conspicuous show molding. Frequent mitotes are noted. The Kienstein population of neoplastic cytoplasmic ratios and a small amount of eosinophilic cytoplasm. The nuclei are irregular, round to oval, hyperchromatic, with no conspicuous show molding areas areas areas with apoptotic prov	A highly cellular, partially necrotic, primitive appearing neoplasm
sheets in a background of rarefied white matter containing gemistocytes and inflammatory cells. Geographic necrosis, pseudopalisading necrosis and glomeruloid vascular proliferation are seen. The predominant population of neoplastic cells has high nuclear to cytoplasmic ratios and a small amount of eosinophilic cytoplasm. The nuclei are irregular, round to oval, hyperchromatic, with no conspicuous nucleoli, and may show molding. Frequent mitotes are noted. The Ki-67 proliferation index is variably increased, with labeling up to	Hignly cellular, pipnasic glial neoplasm arranged in nests, cords, and
	IDH1 wt, MGMT unmethylated, + TERT, - EGFR vIII

	Patient 5
Glial fibrillary acidic protein (GFAP):	
	IDH1 wt, MGMT methylated, + TERT, + EGFR vIII, no 1p/19q deletion
positive glomeruloid forms is Mutated isocitrate seen. No palisading dehydrogenase-1 (IDH-1; necrosis is evident. A R132H mutation): negative combined GFAP-SOX2	Diffusely infiltrating glial neoplasm with areas of increased cellularity, frequent mitotic figures, and robust microvascular proliferation. Frank necrosis is not seen. The tumor cells are atypical and highly pleomorphic. The Ki67 proliferation index is variably increased, with focally up to 40% of tumor cells staining positive. On parts C, D, E, and F, highly atypical tumor cells with similar morphology extensively involve brain parenchyma, which appear to be the infiltrating border of the tumor. Glial fibrillary acidic protein (GFAP): diffusely, strongly
glomeruloid forms is seen. No palisading necrosis is evident. A combined GFAP-SOX2	neoplasm with variably- increased cellularity. Treatment effects are evident where an acutely necrotic cavitating lesion involving cortex and white matter surrounded by many macrophages is present; however, scattered atypical cells are also still seen. There are regions of high cellularity in the adjacent tissue, with many atypical cells and microvascular proliferation. The tumor cells have hyperchromatic, pleomorphic nuclei and frequent mitotic figures are seen. Microvascular
	IDH1 wt, MGMT methylated, + TERT, EGFR vIII, no 1p/19q deletion

		Patient 1										Patient
							•Insomnia – Grade 1	•Anxiety – Grade 2	•Seizure disorder – Grade 2	Myalgia (left upper thigh) – Grade 1	•Eczema – Grade 1	Symptoms at enrollment
 Supplementary motor area (SWA) syndrome – Grade 2 Cerebral edema – Grade 2 Cognitive disturbance – Grade 1 Headache – Grade 1 Hypokalemia – Grade 1 Hypomagnesemia – Grade 1 	 Weight loss – Grade 1 SIADH – Grade 1 Seizure – Grade 1 Supplementary material (SMA) and forms. Crade 	•Constipation – Grade 1	•Cough – Grade 1	 Thromboembolic event (LUE) – Grade 2 	•Thromboembolic event (RUE) – Grade 2	 Thromboembolic event (RLE DVT) – Grade 2 	•Sinus tachycardia – Grade 2 and 1	 Localized edema, abdomen – Grade 1 	Photophobia – Grade 1	•Fatigue – Grade 1	Pain (incision site) – Grade 2	Symptoms end of trial

Patient 3	Patient 2
 Fatigue – Grade 1 Hearing impaired – Grade 2 Thromboembolic event (Pulmonary embolism) – Grade 3 Atrial fibrillation – Grade 2 Hyperlipidemia – Grade 2 Factor 5 Leiden mutation (heterozygous type) – Grade 2 Back pain – Grade 2 Osteoporosis – Grade 2 	•Fatigue – Grade 1 •Elevated intraocular pressure – Grade 1 •Ptosis (left eye) – Grade 1 •Tinnitus – Grade 1 •Alopecia – Grade 2 •Blepharitis – Grade 1 •Left hemianopsia – Grade 1 •Pruritus – Grade 1 •Pruritus – Grade 1 •Sinus bradycardia – Grade 1 •Platulence – Grade 2 •Constipation – Grade 2 •Arthritis – Grade 1 •Seizure disorder – Grade 2 •Headache – Grade 1 •Depression – Grade 2 •Anxiety – Grade 2 •Anxiety – Grade 2 •Platelets decreased – Grade 1
 Pain (incision site) – Grade 2 Insomnia – Grade 2 Sinus bradycardia – Grade 1 Nausea – Grade 2 Cerebral edema – Grade 2 Headache – Grade 1 	 Pain (incision site) – Grade 2 Blurred vision – Grade 1 Lip infection – Grade 2 Constipation – Grade 2 Hemorrhoids – Grade 2 and 1 Cerebral edema – Grade 2 Lymphocyte count decreased – Grade 3 and 2

Patient 5	Patient 4
 Insomnia – Grade 1 Nausea – Grade 1 Constipation – Grade 1 Back Pain – Grade 1 Hypothyroidism – Grade 2 Restless leg syndrome Headache – Grade 1 Migraine – Grade 1 Anxiety – Grade 1 	•Fatigue – Grade 1
 Pain (incision site) – Grade 2 Fatigue – Grade 2 Pain (bilateral knees) – Grade 2 Cerebral edema – Grade 2 Fronto-temporal fluid collection – Grade 1 Stroke – Grade 2 Seizure – Grade 2 	•Fatigue – Grade 2 •Lethargy – Grade 2 •Pain (incision site) – Grade 2 •Insomnia – Grade 2 •Constipation – Grade 2 •Urinary retention – Grade 2 •Back pain – Grade 1 •Hyperglycemia – Grade 1 •Cerebral edema – Grade 2 •Left hemiplegia – Grade 3 •Dysphasia – Grade 2 and 1 •Dysarthria – Grade 2 •Stroke – Grade 3 •Anxiety – Grade 1 •Depression – Grade 2

Patient 5		Patient 4					Patient 3				Patient 2				Patient 1								Patient
7/8/19			11.00	2/14/19				1727110	1/24/19			9	9/17/18					1/22/10	1/22/18				Date of pump placement
7/31/19			0/-	3/11/10				7,20,10	2/20/19				10/12/18					2/22/10	2/22/18				Date of pump explant/resection
Steroids: •Dexamethasone 10/6/4/2 mg PO q6hr	AEDs: Levetiracetam 500 mg PO BID	Other: •Lorazepam 1 mg IV PUSH	•Dexamethasone 10/6 mg PO q6hr	Steroids:	 Levetiracetam 1500/1000 mg PO BID 	AEDs:	Dexamethasone 10/6/4/2 mg PO q6hr	Steroids:	 Levetiracetam 500 mg PO BID 	AEDs:	Dexamethasone 10/6/4 mg PO q6hr	Steroids:	 Levetiracetam 500 mg PO BID 	AEDs:	Enoxaparine 40 mg SQ qD	•2%/3% hypertonic saline IV PRN	Other:	Dexamethasone 10/6/4/2 mg PO q6hr	Steroids:	Clobazam 20 mg PO qHS	 Carbamazepine ER 800 mg PO BID 	AEDs:	Concomitant medications

	Serious Adverse Events
Patient 1	Nervous System Disorders Other: Supplementary motor area (SMA) syndrome, Grade 3 DLT – 1/26/18 – 1/28/18
Patient 2	No SAEs reported during trial
Patient 3	No SAEs reported during trial
Patient 4	Stroke, Grade 3 – 3/11/19 – 3/11/19 (intraoperative)
Patient 5	Stroke, Grade 2 – 8/14/19 – 9/3/19

90 90 80 90 100 90	Postoperative decrease in		Patient 4 90 90 90 40 to intraoperative stroke	RPS Pre- Patient 1 90 Patient 2 90 Patient 3 100	Trial KPS End infu 90 100 90	mance Scores (I 6 wk follow-up)	Comments Transient decrease in KPS during Pulse 2 secondary to transient SMA syndrome Postoperative decrease in KPS secondary
90 90 80 90 100 90 100 90 90		Postoperative decrease in	90 90 40		90 100 90	80 80 90 90	Transient decrease in KPS Pulse 2 secondary to trans syndrome

		Neuro-Cognitive Assessments - Raw Scores							
	Pre-Study	Pulse 1	Pulse 4	1-4d Post-Infusion	1-2w Post-Infusion	4-6w Post-Infusion			
Patient 1		43			51	37			
Patient 2	29	43	47	43	48	39			
Patient 3	44	40	43	20	30				
Patient 4	36	33	39	4	16				
Patient 5	31	22	54	45	39				

	I	Neuro-Cognitive Assessments - Adjusted Scores							
	Pre-Study	Pulse 1	Pulse 4	1-4d Post-Infusion	1-2w Post-Infusion	4-6w Post-Infusion			
Patient 1		43			51	37			
Patient 2	30	44	48	44	49	40			
Patient 3	47	43	46	23	33				
Patient 4	37	34	40	5	17				
Patient 5	31	22	54	45	39				

			Perce	entiles		
	Pre-Study	Pulse 1	Pulse 4	1-4d Post-Infusion	1-2w Post-Infusion	4-6w Post-Infusion
Patient 1		67			87	43
Patient 2	16	69		69	82	58
Patient 3	78	43	76	4	27	
Patient 4	43	30	58	1	1	
Patient 5	19	3	92	72	50.3	

			FACT-Brain	QOL Scores		
	Pre-Study	Pulse 1	Pulse 2	Pulse 3	Pulse 4	Post-Study
Patient 1	96	95	77	81		82
Patient 2	102	102	89	83	90	88
Patient 3	90	86			95	67
Patient 4	93	80			81	93
Patient 5	99	100.83			98.67	

FACT-Br score range 0-200

			FACIT-Fat	igue scale		
	Pre-Study	Pulse 1	Pulse 2	Pulse 3	Pulse 4	Post-Study
Patient 1	10	22	12	15		7
Patient 2	11	11	12	11	12	10
Patient 3	7	11			12	24
Patient 4	14	18			10	26
Patient 5	17	33			21	

FACIT Fatigue scale 0-52

		PROMIS	Global heal	th measure (T-Score)	
	Pre-Study	Pulse 1	Pulse 2	Pulse 3	Pulse 4	Post-Study
Patient 1	56	38.8	43.5	41.1		48.3
Patient 2	62.5	56	53.3	67.6	56	48.3
Patient 3	53.3	62.5			59	48.3
Patient 4	45.8	45.8			47.7	45.8
Patient 5	48.3	45.8			43.5	

PROMIS Global health: Higher T-Score is healthier

Patient 2 Patient 3 Patient 1 Patient 5 Patient 4 **Patient** Volume of distribution* (Vd $26.6 \mathrm{mL}$ $35.9~\mathrm{mL}$ 12.0 mL $14.6 \mathrm{mL}$ 13.1 mL Volume of infusion* (Vi) 11.1 mL 9.7 mL 9.6 mL 7.2 mL $5.4 \mathrm{mL}$ Vd/Vi* 3.23 2.03 2.73 1.24 2.44 Total volume of infusion 38.4 mL 38.4 mL 38.4 mL $38.4 \mathrm{mL}$ $21.6 \, \mathrm{mL}$

(* = measured at the time of maximum volume of distribution)

Gene	baseMean	log2FoldChange	IfcSE	stat	pvalue	padj
DKK1 W N K4	746.5657276 535.675532	5.215958324 4.816467155	0.468820988 0.454322863	11.12569286 10.60141926	9.40721E-29 2.93492E-26	1.73366E-24 2.70438E-22
NECTIN4	319.4882503	4.837993146	0.462467399	10.46126312	1.30109E-25	7.99263E-22
MCEMP1 HCAR3	196.1110339 161.9730513	5.382921395 6.109075777	0.516046368 0.628544004	10.43108086 9.719408244	1.78842E-25 2.49226E-22	8.23971E-22 9.18596E-19
CCL18	8767.073074	6.029873317	0.626056854	9.631510747	5.88577E-22	1.80781E-18
AN KRD1 RN ASE7	483.1837736 91.88871869	4.914836792 6.605940165	0.516853739 0.702748969	9.509144312 9.400142097	1.92237E-21 5.44894E-21	5.06106E-18 1.25523E-17
CCI.20	504.9079605	4.226323382	0.455661041	9.275147537	1.77373E-20	3.63202E-17
IG FBP6 GDF15	5847.525994 5104.918033	3.758800792 4.40737178	0.412494897 0.485072458	9.112357074 9.086007063	8.06112E-20 1.02743E-19	1.48558E-16 1.72132E-16
HCAR2	151.4654788	5.047967281	0.561376017	8.992132064	2.4248E-19	3.72389E-16
HBA1 CXCL1	76020.92924 477.6880951	4.152825857 3.704543842	0.465487559	8.921454028 8.871204918	4.60206E-19 7.23587E-19	6.52395E-16 9.52498E-16
C15orf48	697.9468837	4.487526544	0.513380911	8.741124665	2.30801E-18	2.83562E-15
HBA2 MMP7	158638.8161 1329.021406	4.108053462 4.869475807	0.474089433 0.56168038	8.665144532 8.669478197	4.50941E-18 4.34105E-18	4.61688E-15 4.61688E-15
TM4SF19	81.78149146	3.778182659	0.435578605	8.673939946	4.17421E-18	4.61688E-15
FXYD2 G0S2	230.7816236 1651.998321	3.536696985 3.601872054	0.409548787 0.42471032	8.635593837 8.480773569	5.84227E-18 2.23702E-17	5.6667E-15 2.0613E-14
CCL22	280.1877079	3.820516393	0.451396152	8.463777047	2.58854E-17	2.16838E-14
LCE1C FDXR	174.1032885 4843.728136	6.693593992 2.892391272	0.790370949 0.348571707	8.46892715 8.297837187	2.47664E-17 1.06024E-16	2.16838E-14 8.49528E-14
TP53I3	4414.757994	3.205756368	0.387886378	8.264678908	1.40071E-16	1.07557E-13
CD70 CEACAMB	401.1973522 96.87577459	4.760594062 5.276709389	0.57654432 0.639925758	8.25711727 8.245814962	1.49233E-16 1.64038E-16	1.10008E-13 1.16272E-13
TFPI2	361.9941551	3.877695876	0.474000231	8.180789007	2.81991E-16	1.92475E-13
AQP9 IL1R2	1106.654714 170.5833996	3.385218821 3.357901493	0.415629688 0.41523341	8.144795515 8.086780614	3.79923E-16 6.12625E-16	2.50057E-13 3.89312E-13
KRT5	296.9766351	-5.188275979	0.644335967	-8.052128465	8.13664E-16	4.99834E-13
LRG 1 KRT7	257.7482472 501.8556161	3.251579459 3.676853164	0.40978952 0.464137779	7.934755042 7.921900198	2.10911E-15 2.33908E-15	1.25383E-12 1.34709E-12
RRAD	2041.088539	3.096039335	0.392976517	7.878433448	3.31511E-15	1.85134E-12
S100A12 LAD1	118.0813302 80.49092625	4.107454452 4.828589171	0.524097079 0.621886116	7.837201576 7.764426716	4.60698E-15 8.20153E-15	2.49712E-12 4.31846E-12
PADI4	93.98103155	3.812085103	0.491495681	7.756090748	8.75874E-15	4.48374E-12
ACP5	581.8876037 5751.530347	3.650159869 3.618711267	0.470899521 0.471167208	7.751462262 7.680312223	9.08403E-15 1.58701E-14	4.52459E-12 7.6966E-12
CD52	1671.340291	3.221661732	0.419950701	7.671523636	1.69965E-14	8.03151E-12
PLIN2 SFN	6407.175298 3998.409197	2.175412047 3.861643534	0.283929328 0.503808675	7.661808172 7.66490083	1.83333E-14 1.78969E-14	8.24061E-12 8.24061E-12
GCHFR	1027.762208	2.245575037	0.293737332	7.64484046	2.09205E-14	9.1796E-12
SERTAD1 CCL23	2222.54772 73.12703956	2.372249071 4.486898264	0.310720939 0.590984629	7.634661119 7.592241901	2.26415E-14 3.14417E-14	9.70373E-12 1.31691E-11
SLAMF7	744.7685661	3.422807078	0.452739432	7.560214193	4.02406E-14	1.64799E-11
FCN1 S100P	404.5827848 67.53523437	3.48240168 3.45316154	0.461573139 0.463904753	7.544636776 7.443686482	4.5355E-14 9.79137E-14	1.81706E-11 3.83926E-11
LILRB5	1212.944492	2.812546865	0.37866254	7.427581478	1.10601E-13	4.2464E-11
CXCR1 RHOD	84.74482919 507.7557865	3.648812592 2.851258858	0.491589615 0.386112772	7.422476961 7.384523552	1.1495E-13 1.53E-13	4.32329E-11 5.63928E-11
LCE1E	64.34531981	5.416405249	0.734670982	7.37255912	1.67383E-13	6.04845E-11
DO K2 CFP	482.3134046 575.5028852	2.850600699 2.380592694	0.393047892 0.3301115	7.252553072 7.211480642	4.08988E-13 5.53467E-13	1.44947E-10 1.85452E-10
PMWP1	491.4491538	2.928507964	0.405955961	7.213856298	5.43892E-13	1.85452E-10
CXCL3 MFAP5	264.0469778 381.3972013	2.981474391 2.774532803	0.413260548 0.385688567	7.214514923 7.193712852	5.41266E-13 6.30527E-13	1.85452E-10 2.075E-10
EVA1A	214.242523	3.063898782	0.426401933	7.18547113	6.69758E-13	2.16543E-10
N F KBIE DHDH	1579.559847 133.5822234	1.897801447 1.974255793	0.264915706 0.275552291	7.163793637 7.164722842	7.84745E-13 7.79441E-13	2.4512E-10 2.4512E-10
C2CD4B	41.70516783	2.662145178 1.995874243	0.372334317 0.279774214	7.149878641 7.13387491	8.68547E-13	2.66774E-10
SPINT1 SELE	434.7616238 171.925076	3.729278624	0.523109971	7.129052845	9.7582E-13 1.01062E-12	2.9481E-10 3.00398E-10
COMTD1 LILRAS	810.7768498 280.9979821	1.915590164 3.07306272	0.269196922 0.433426392	7.115943793 7.090160577	1.1115E-12 1.33956E-12	3.25139E-10 3.85732E-10
APOBR	1801.254155	2.189328214	0.433426392	7.082290105	1.41791E-12	4.02011E-10
CLEC4E TNFRSF10C	746.5147551 633.3626132	2.988835334 2.601458365	0.422797951 0.368158032	7.069181214 7.066145896	1.55851E-12 1.59296E-12	4.35177E-10 4.38159E-10
FAM83G	497.6251949	2.618549024	0.371742995	7.043976782	1.86829E-12	4.98997E-10
MMP8 SERIN C2	84.36658376 1019.30458	3.309007812 2.28250899	0.469732775	7.044447378 7.029365209	1.86199E-12 2.07475E-12	4.98997E-10 5.46223E-10
TIMP1	72367.79365	2.920962446	0.417490905	6.996469655	2.62493E-12	6.81335E-10
IL1RL1 ALAS2	182.9103188 138.5786918	2.429698667 3.428464922	0.34746792 0.493465586	6.992584145 6.947728508	2.69869E-12 3.71214E-12	6.90751E-10 9.37139E-10
SLC52A1	296.0374861	3.217823705	0.464791788	6.923150942	4.41707E-12	1.10003E-09
B3GNT8 CDKN1A	197.8743357 14642.6047	2.509942592 2.200873737	0.3646359 0.320455136	6.883421495 6.867962121	5.84318E-12 6.51255E-12	1.43579E-09 1.57921E-09
KCN K15	127.2803018	3.027047969	0.445590052	6.793347287	1.09561E-11	2.62221E-09
EEF1AKMT4 GPX3	140.1020534 13044.79923	2.134507223 2.524616254	0.316175019 0.375573785	6.751030592 6.722024694	1.46799E-11 1.79217E-11	3.4684E-09 4.18074E-09
FOSL1	857.2842845	2.369291903	0.353101838	6.709939314	1.94705E-11	4.48528E-09
HIST1H2BJ SIRPB1	111.7100214 698.4685452	2.486521518 2.187012318	0.371480615 0.327454513	6.693543126 6.678827835	2.17831E-11 2.40861E-11	4.95605E-09 5.4132E-09
SESN2	1909.792321	1.448703166	0.217380561	6.664363906	2.65814E-11	5.90203E-09
CSF3	23755.6933 85.15688286	2.519021016 3.280096997	0.378435765 0.492687252	6.656403145 6.657564174	2.8061E-11 2.78403E-11	6.08395E-09 6.08395E-09
CD800E	257.7681785	2.765991199	0.415922949	6.650249055	2.92597E-11	6.27009E-09
IL1RN LAMC2	721.104679 138.8642344	2.91236265 2.52389576	0.439063414 0.381059847	6.633125328 6.623357924	3.28653E-11 3.51129E-11	6.96177E-09 7.27075E-09
MYO1G	1417.944788	2.401910104	0.362556505	6.624926236	3.47422E-11	7.27075E-09
\$100A3 \$TAP2	581.9461275 397.3148807	2.478219222 2.070929589	0.377636466 0.315916304	6.562446804 6.555310899	5.29319E-11 5.55261E-11	1.08387E-08 1.11227E-08
CCRL2	825.3985318	2.289840457	0.349251556	6.556421639	5.51143E-11	1.11227E-08
CCR7 TNFRSF9	220.5990017 157.1241927	3.032105575 2.270112451	0.463697855 0.347442195	6.538968299 6.533784572	6.19447E-11 6.41282E-11	1.2275E-08 1.25725E-08
BBC3	1091.513018	1.780087931	0.273752683	6.502540581	7.89747E-11	1.53203E-08
CAMP LILRA3	60.1966797 66.90359898	3.838858398 3.40399386	0.592486617 0.527379852	6.479232254 6.454539068	9.21905E-11 1.08549E-10	1.76977E-08 2.06231E-08
\$100A6	38182.49267	1.870697328	0.2920196	6.406067693	1.49321E-10	2.80799E-08
NFKB2 CLDN4	2347.577256 149.342185	1.805492131 2.562975247	0.282144437 0.400782477	6.399176775 6.394928405	1.56217E-10 1.60623E-10	2.908E-08 2.96011E-08
CYSRT1	160.6288473	1.948397378	0.305258158	6.382785611	1.73895E-10	3.17299E-08
SPR BNC1	945.5792078 58.09154065	1.137258879 2.634767826	0.178728464 0.414013818	6.363054076 6.36396108	1.97781E-10 1.96616E-10	3.53874E-08 3.53874E-08
AL049629.2	211.3034623	2.729247768	0.429450586	6.355207923	2.08145E-10	3.68837E-08
PG LYRP1	589.592039 20.29927718	2.3084299 4.333099175	0.363885532 0.687504045	6.343835343 6.302652625	2.24114E-10 2.92594E-10	3.93353E-08 5.087E-08
DQX1	61.55534497	2.761163583	0.438229465	6.30072554	2.96256E-10	5.10252E-08
HIST1H1C HES2	1586.085693 75.07745966	1.759937513 2.509993224	0.279746918 0.400204638	6.291177486 6.27177445	3.15067E-10 3.56956E-10	5.37627E-08 6.03518E-08
HAS1	224.8789164	2.253416578	0.360974233	6.242596764	4.30365E-10	7.21018E-08
TNFRSF10A SUCNR1	222.2784732 123.136629	2.05766301 2.845040601	0.330412484 0.456952682	6.227558302 6.226116435	4.7376E-10 4.78139E-10	7.8657E-08 7.86752E-08
BCI.2A1	1134.591471	2.438116582	0.392846153	6.206288547	5.42505E-10	8.84764E-08
ACTL10 CXCL6	110.3745673 167.4240572	1.691770588 3.621554428	0.273529784 0.585983029	6.184959329 6.180305993	6.21185E-10 6.39775E-10	1.00419E-07 1.02525E-07
	-07.4240372		3.303303023	3.100303333	3.337732-10	1.01.71.71.07

FGR	1745.699304	1.810715472	0.293904522	6.160896944	7.23341E-10	1.14918E-07
PRSS57	12.33719163	4.311095667	0.700741722	6.152189214	7.64206E-10	1.20372E-07
HTRA4	398.1972913	2.030387773	0.331639735	6.122269324	9.22519E-10	1.44077E-07
SERPIN B2	47.45103551	2.94538212	0.481884182	6.112219963	9.82546E-10	1.52163E-07
AREG	201.8126181	3.46478229	0.567120595	6.109427735	9.9989E-10	1.52289E-07
MAP2K3	2158.23506	1.286550751	0.210566321	6.109955029	9.96592E-10	1.52289E-07
C11orf96	2670.338241	1.636625351	0.267966634	6.107571398	1.01159E-09	1.52807E-07
KRT18	130.6604169	2.232846804	0.365841557	6.103316487	1.0389E-09	1.55657E-07
CXCR2	208.9247896	2.166860115	0.355394823	6.097050309	1.08044E-09	1.60575E-07
CES1	873.3879639	2.689249309	0.442459626	6.077954122	1.21726E-09	1.78038E-07
NEURL3	174.4934217	2.056859994	0.338403728	6.078124513	1.21596E-09	1.78038E-07
S100A2	278.7278143	2.149836905	0.3540272	6.072519019	1.25919E-09	1.81294E-07
HKDC1	392.9498299	1.803023628	0.29689313	6.072971875	1.25564E-09	1.81294E-07
RAET1L	27.75020464	4.29516779	0.707580255	6.070219961	1.27735E-09	1.82483E-07
SEPHS2	3172.389004	0.869032443	0.143767675	6.04469984	1.49688E-09	2.12201E-07
IL4I1	991.8755059	2.294281521	0.379802318	6.040725435	1.53423E-09	2.15834E-07
ITLN1	15.67496337	4.044013911	0.671722692	6.020362212	1.74027E-09	2.42966E-07
S1PR4	162.2441547	2.401006345	0.399125269	6.015671098	1.79143E-09	2.48228E-07
PRO CR	86007.81609	2.837293424	0.471992427	6.011311327	1.84029E-09	2.53094E-07
	945.2700803	1.900758682	0.316365239	6.008114833	1.87693E-09	2.56222E-07
CITED1	1275.805935	2.201027208	0.370240053	5.944865198	2.76684E-09	3.74928E-07
OSCAR	1316.567763	1.800585322	0.302946072	5.943583656	2.78857E-09	3.75114E-07
LILRB3	990.286809	2.3573175	0.3968214	5.940499926	2.84154E-09	3.79469E-07
DG AT2	549.2116488	1.82619135	0.307850121	5.93207936	2.99122E-09	3.96584E-07
NPB	770.3105979	1.830751878	0.30873303	5.929886659	3.03144E-09	3.99046E-07
IL23A	125.9456127	2.59484402	0.437830101	5.926600325	3.0927E-09	4.01376E-07
DEFA1	23.05570689	4.411166217	0.744223903	5.927203093	3.08138E-09	4.01376E-07
TNFSF9	429.861207	1.793258049	0.302680765	5.924585423	3.13086E-09	4.03487E-07
ETV4	452.0022939	1.58743272	0.268068323	5.921746742	3.1854E-09	4.07665E-07
CCL14	39.79816023	2.356659252	0.399557269	5.8981764	3.67541E-09	4.67132E-07
CEACAM1	212.8878659	2.331565401	0.395444949	5.896055586	3.72294E-09	4.69931E-07
CXCL5	347.981597	2.34276828	0.398867832	5.873545296	4.26572E-09	5.34783E-07
GALR2	25.285045	2.840828674	0.484647378	5.861640453	4.58317E-09	5.70697E-07
RHCG	226.9021385	2.081509707	0.35544724	5.856030024	4.74063E-09	5.86342E-07
PTG ES	308.9790242	1.868871872	0.319586585	5.847779484	4.98178E-09	6.12062E-07
SRG AP2	3525.122073	-0.693825748	0.118839739	-5.838331157	5.27263E-09	6.43505E-07
RETN	32.73890384	2.949244262	0.50589156	5.829795348	5.54954E-09	6.72845E-07
PALD1	2828.95151	-0.980759865	0.168280573	-5.828122922	5.60543E-09	6.75179E-07
CHMP4C	95.04227951	2.100421926	0.361473159	5.810727221	6.2202E-09	7.44365E-07
ABCB5	41.70399583	2.242436135	0.386288662	5.805078835	6.43357E-09	7.60028E-07
NR1H3	1249.653811	1.246876855	0.214790034	5.805096406	6.4329E-09	7.60028E-07
TAF7L	93.34500308	2.543404909	0.438474197	5.800580578	6.60857E-09	7.75728E-07
PDZK1IP1	446.0581872	2.291081189	0.395193467	5.797366051	6.73645E-09	7.85735E-07
DPP4	275.6182393	1.864330087	0.321709093	5.79508049	6.82884E-09	7.91501E-07
TRIAP1	1599.09702	1.354792338	0.234055955	5.788326722	7.1091E-09	8.18835E-07
MMGT1	1828.937655	0.346466976	0.059944612	5.779785121	7.47961E-09	8.5616E-07
KRT23	44.13058411	3.014403183	0.521953604	5.775232055	7.68471E-09	8.74207E-07
TMEM150B	155.7683648	2.095014381	0.363601771	5.761837662	8.3203E-09	9.40704E-07
C1orf68	17.5974416	7.404284899	1.286754607	5.754232283	8.70364E-09	9.72118E-07
S100A8	2696.46868	2.495932051	0.433734708	5.754513087	8.68919E-09	9.72118E-07
LYPLA2	2896.789662	1.144863568	0.199458153	5.739868495	9.47501E-09	1.0519E-06
RETREG 3	2339.765227	0.601268245	0.10490994	5.731280013	9.96756E-09	1.09995E-06
ADAMDEC1	348.7531828	2.561597772	0.448603897	5.710154974	1.12873E-08	1.23818E-06
LSP1	3713.434998	1.900709669	0.333074977	5.706551976	1.15288E-08	1.25718E-06
AP5B1 MME	952.7154269 114.7661203	1.088010307	0.190820446 0.381234051	5.701749119	1.18584E-08	1.27058E-06 1.27058E-06
TMSB10	65205.27139	2.173821176 1.290752799	0.226303553	5.702064571 5.703634717	1.18365E-08 1.17279E-08	1.27058E-06
S100A9	6838.123038	2.328913015	0.408862285	5.696081789	1.22592E-08	1.30592E-06
KCNJ15	132.7040678	1.486869762	0.261240672	5.691570738	1.25876E-08	1.32558E-06
ST14	1967.854357	1.883857808	0.33094532	5.692353682	1.253E-08	1.32558E-06
ICAM3	545.6273448	1.484520782	0.260923436	5.68948809	1.27421E-08	1.33423E-06
GN PDA1	3549.909808	0.881702432	0.155033259	5.687182463	1.29152E-08	1.34472E-06
ISLR	1882.061538	1.446236503	0.254444844	5.683889997	1.31665E-08	1.36318E-06
NEU1	2988.218284	1.000189842	0.176045634	5.681423722	1.33578E-08	1.37526E-06
SLC4A1	11.43038794	5.890092372	1.038899923	5.669547416	1.43175E-08	1.46588E-06
	116.4657114	2.112037807	0.372833706	5.664825296	1.47174E-08	1.49026E-06
CD244	114.354481	2.213705997	0.390746675	5.66532267	1.46748E-08	1.49026E-06
CTSL	14591.88991	1.476902803	0.260826666	5.662391906	1.49277E-08	1.5033E-06
TNIP2	1896.640523	1.173891211	0.207423503	5.659393436	1.51909E-08	1.52148E-06
PHF23	1793.856636	0.6143534	0.108588617	5.657622476	1.53484E-08	1.52895E-06
LIF	1000.880974	2.221449234	0.393172956	5.650056036	1.60396E-08	1.58921E-06
PTGIR	267.7698845	1.685291065	0.298522727	5.645436381	1.64763E-08	1.62375E-06
TSKU	931.8435566	1.225864435	0.217542428	5.635059085	1.74998E-08	1.70637E-06
TCN2	2905.428188	1.251928436	0.222160434	5.635244821	1.7481E-08	1.70637E-06
PBDC1	1117.850212	1.069863638	0.189925868	5.633059102	1.77041E-08	1.7172E-06
MRG PRX3	37.72330813	2.249106959	0.399362388	5.631744568	1.78396E-08	1.72129E-06
TSLP	137.7663863	2.079927635	0.369962827	5.621990867	1.88769E-08	1.77491E-06
APO BEC3C	2669.617614	1.645664499	0.292690619	5.622539262	1.88171E-08	1.77491E-06
NKX3-1	239.3599679	1.491982782	0.265351238	5.622671266	1.88027E-08	1.77491E-06
BATF	373.5098597	2.174082583	0.386596363	5.623649865 5.623649865	1.86964E-08	1.77491E-06
FSTL3 CST4	3883.951876 24.99587112	1.507025814 6.617505808	0.267934647 1.179362982	5.611084891	2.01062E-08	1.77491E-06 1.8809E-06
SLC25A19	1034.049417	1.160450299	0.20751959	5.592003627	2.24464E-08	2.08922E-06
CEBPZOS	2095.616151	0.43603017	0.078080957	5.584334347	2.34597E-08	2.17256E-06
TMEM92	26.13137947	2.153454753	0.386032474	5.578429009	2.427E-08	2.22524E-06
CCL26	53.19473979	2.650008825	0.475009575	5.578853486	2.42109E-08	2.22524E-06
HEBP2	1852.752266	0.806288401	0.144577267	5.576868478	2.44887E-08	2.23417E-06
FUCA1	4418.858917	1.658314753	0.297604698	5.572206224	2.51533E-08	2.2835E-06
SMIM4	856.2900556	1.152886954	0.207007969	5.569287784	2.55783E-08	2.3107E-06
GRN	28243.70039	1.537928426	0.276625853	5.559597592	2.70397E-08	2.43081E-06
FMNL3	3089.737026	-0.620590638	0.111705012	-5.555620332	2.76628E-08	2.47474E-06
MAPK13	1102.571589	1.331091754	0.239675928	5.553714812	2.79662E-08	2.47783E-06
LEP	25.38932301	2.618802652	0.471503587	5.554152135	2.78962E-08	2.47783E-06
MSC	298.3505176	2.172655442	0.391550977	5.548844393	2.87564E-08	2.53565E-06
NPM3	570.0584017	0.918804924	0.165636059	5.547131027	2.90395E-08	2.54842E-06
EPHA2	867.2905854	1.639906623	0.296076669	5.538790436	3.04568E-08	2.66013E-06
PODNL1	944.1748445	1.760902042	0.318149708	5.534822121	3.11544E-08	2.70823E-06
SPHK1	1750.448715	1.560026284	0.282148252	5.529101369	3.21875E-08	2.7849E-06
TN IP3	69.44186399	1.805431098	0.327047785	5.520389311	3.38249E-08	2.9129E-06
MMP3	37.07405556	2.804710637	0.509320609	5.506768408	3.65481E-08	3.11826E-06
DEFB1	14.26752688	4.144484913	0.752523822	5.507446795	3.64075E-08	3.11826E-06
PF4	38.37988134	2.747449047	0.499680997	5.498406107	3.8324E-08	3.23978E-06
PLA2G7	861.8866612	1.808222913	0.328847365	5.498669315	3.82668E-08	3.23978E-06
PDLIM4	3079.744039	1.279850519	0.233162322	5.489096654	4.03995E-08	3.39964E-06
PER3	1738.910214	-1.06493557	0.194145457	-5.485245879	4.12895E-08	3.45874E-06
TNFRSF6B	1210.139796	1.718523902	0.313670843	5.47874927	4.28343E-08	3.57191E-06
SIGLEC15	65.20401924	2.095368914	0.382555688	5.477291222	4.31886E-08	3.58524E-06
EFNB1	1814.793352	1.21882074	0.222626757	5.474727097	4.38186E-08	3.62123E-06
ANXA8	75.58214328	2.007578341	0.366968232	5.470714262	4.48225E-08	3.67127E-06
SHC1	6042.289695	1.400474917	0.255963406	5.471387251	4.46526E-08	3.67127E-06
PPP1R15A	5334.603528	1.228710023	0.224673271	5.468874942		3.69315E-06
KRT6B	13.95270233	3.759058529	0.689021737	5.45564578	4.52901E-08 4.87952E-08	3.96144E-06
ATG 101	1852.530251	0.927043052	0.16995063	5.454778553	4.90339E-08	3.96336E-06
AG PAT2	1258.091364	1.170423144	0.214852339	5.447569947	5.10626E-08	4.09145E-06
CYP2S1	229.5237806	1.39143051	0.255402446	5.447992115	5.09416E-08	4.09145E-06
DEDD2	1869.968442	0.723472745	0.13298585	5.440223474	5.32138E-08	4.24535E-06
D. LAUE	1869.968442	U./234/2745	U.13Z98585	5.440223474	5.32138E-08	4.24535E-06

CSEAM	PLA2G 2D	54.84895429	2.480547761	0.45610437	5.438552933	5.37151E-08	4.26687E-06
				0.133130334	0.10120101	0.122000.00	4.200111 00
Column							
December Column							
1.00							
							0.002022
1995 1995							
March Marc							
Column							
1997 1997 1998				***************************************	0.00.00000		
1905 1906							
1.000000000000000000000000000000000000							
1.00							
1.000							
1996 1997 1998							
1999 1999							
1,000.000 1,00							
1. 1. 1. 1. 1. 1. 1.							
MARCH 1.00000				0.103000303			
Transport							
March							
Teach	ACOX1	2844.01443	0.398932949	0.075917944	5.254791271	1.48192E-07	1.02671E-05
Color		2 101 1400000					
Color	ADTRP	190.3074501	1.956891069	0.373061174	5.245496468	1.55862E-07	1.0678E-05
Description							
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MATERIAN 1214 121							
1.500.000 1.500.0000 1.50			1.263209374		5.182316056		
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1.07280 1.07281		4787.477291	0.973896555	0.187973176	5.181040059	2.20652E-07	
1992 1908 1918							
CAMP 1248-1041							
MAX							
TAME							
MARCH MARC							
FIRE							
SECUM							
THEFFILD	PHLDB3						
Description 1.52	TNFRSF10D						
CLOSES 1579/2005 2.2009/519 0.5552/1005 5.1514/207 3.1009/67 1.27440-07		12001002100					
TAMESH							
PACK 157,999.00 170,316.07 0.345,874.0 5.1115.024 3.2018.6.0 1.515.00.0							
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TOCS 1008.466110 0.957/00177 0.1875/7505 5.10500000 3.33444.60 1.975726.00 1.975726.00 1.975726.00 1.975726.00 1.975726.00 1.957726.00 1.9	GPAT3		1.64628527		5.111344102	3.19875E-07	
FOND							
ACOUNT			1.683911713				
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POLRZI 6418.28255 1.144259938 0.22400R205 5.087675373 3.624794.07 1.11964.05							2.04403E-05
NEXE							
TEXT4							
PSP 46.2005584 2.4997916 0.47416528 5.08135858 3.73076-07 2.159312-05 CCTA 588.3550061 1.92405799 0.379154379 5.076976829 3.834886-07 2.2015510 1.0815110 1.0815110 1.0815110 1.0815110 1.0815110 1.0815110 1.0815110 1.0815110 1.0815110 1.0815110 1.0815110 1.0815110 1.0815110 1.081511							
IRRCIS 148.694688	PPBP						
\$100M							
Symbol							
LIA 113.869531 1.689409221 0.332713715 5.062450677 4.13901E-07 2.339E1E-05 ADM 234.13832 1.610357914 0.318162653 5.061457472 4.16124E-07 2.24518E-05 MTIA 100.8114958 1.422144721 0.281284564 5.06342558 4.2044E-07 2.24528E-05 EAC3 4027.410001 0.620012796 0.122625004 5.066169411 4.27761E-07 2.39611E-05 EAC3 185.566122 0.768040699 0.152025700 5.05194747 4.3723E-07 2.246128E-05 MFSDS 1855.66122 0.768040699 0.152025707 5.05194747 4.3723E-07 2.246128E-05 EAC3 185.566122 0.768040699 0.152025707 5.05194747 4.3723E-07 2.246128E-05 EAC3 185.566122 0.768040699 0.086609736 5.065169411 4.27761E-07 2.29611E-05 EAC3 185.566122 0.768040699 0.086609736 5.06196411 4.27761E-07 2.29611E-05 EAC3 185.566122 0.768040999 0.086609736 5.06196411 4.27761E-07 2.29611E-05 EAC3 185.566122 0.768040999 0.086609736 5.06196121 4.51127E-07 2.29611E-05 EAC3 185.566129 1.96426500 0.086609736 5.06401216 4.51127E-07 2.29611E-05 EAC3 185.566129 1.141515161 0.226271337 5.04601216 4.51127E-07 2.29611E-05 EAC3 185.566129 1.111516388 0.271265841 5.0412647 4.660288E-07 2.25228E-05 EAC3 185.566129 0.778728215 0.156107167 5.04125470 4.57679E-07 2.25228E-05 EAC3 185.566129 0.778728215 0.156107167 5.05425470 4.57679E-07 2.27328E-05 EAC3 185.566129 0.778728215 0.08609139 5.03556738 5.0086091 5.0086091 5.0086091 5.0086091 5.0086091 5.0086091 5.0086091 5.0086091 5.0086091 5.0086091 5.0086091 5.0086091 5.0086091 5.0086091 5.0096091 5.0096091 5.0096091 5.0096091 5.0096091 5.0096091 5.0096091 5.0096091 5.0096091 5.0096091 5.0096091 5.0096091 5.0096091							
MTIA 100.8114958 1.423148721 0.281284564 5.059462558 4.2044c07 2.36228c02 ENCS 4077.41001 0.62001799 0.122625004 5.056169411 4.27761c07 2.39611c0 MTSGS 1855.966222 0.768046909 0.15202707 5.05919472 4.37228c07 2.4228c05 GNPNAT1 984.4009678 0.427410643 0.08669736 5.050384340 4.40076.07 2.4531860 ENTRY 1 384.4009678 0.427410643 0.08669736 5.050384340 4.40076.07 2.4531860 ENTRY 1 386.4009678 0.427410643 0.08669736 5.002860421 4.500366.07 2.25323860 ENTRY 1 386.4009678 0.437410643 0.08669736 5.00286042 4.500366.07 2.25323860 ENTRY 1 386.4009678 0.438426000 0.38353462 5.04216042 4.500366.07 2.25323860 ENTRY 1 396.4009678 0.15036860 0.338324264 5.04216647 4.507860 2.25323860 ENTRY 1 396.4009678 0.08669433 0.338324264 5.023190557 4.951860 2.2715660 ENTRY 2 386.4009678 0.08669433 0.08669374 5.002366989 5.00396607 2.736660.08660 ENTRY 2 386.4009678 0.08669433 0.08669374 5.002366989 5.00386607 2.736660.08660 ENTRY 2 386.400967 1.0903673 0.0780374 5.0024627397 5.008486.07 2.736660.08660 ENTRY 2 386.400967 1.0903673 0.0780374 5.0024627397 5.008486.07 2.736660.08660 ENTRY 3 396.801631 1.36781366 0.277467587 5.002092049 5.16667c.07 2.7273660 ENTRY 3 396.801631 1.36781366 0.277467587 5.002092049 5.16667c.07		113.8695513	1.689409221	0.333713715	5.062450677	4.13901E-07	
EMCS 4027,410001 0.5001279S 0.122655004 5.056159411 4.27761E-07 2.39611-05 MFSDS 1855,965122 0.76804609S 0.152029077 5.05194747 4.37328E-07 2.44218E-07 ORPNATI 984,409678 0.387410648 0.08609736 5.05194747 4.37328E-07 2.44218E-07 ZMF155 75,0195286 1.14151618 0.226271337 5.04601216 4.51127E-07 2.59418-05 TNNT3 26,05851917 1.9882600 0.393534627 5.042160429 4.600356-07 2.53228-05 NAPMI 2009,11541 1.11763885 0.221658415 5.04216474 4.60288E-07 2.53228-05 PINT1 578,2703505 0.78728215 0.156107167 5.04215474 4.57679F-07 2.53228-05 SDS 2121,309734 1.67555748 0.338223694 5.08190557 4.51676-07 2.23228-05 SDS 2121,309734 1.6755748 0.338223694 5.02555288 5.01988-07 2.73586-05 SDS 213,0004343 0.42227334 0.08460374 5.02							2.34518E-05 2.36228E-05
GNPHATI	EMC3	4027.410001	0.620012796	0.122625004	5.056169411	4.27761E-07	2.39611E-05
278165 75.09195286							
NAMI 2009.131541				0.226221337			
PRINXI 578.2703505 0.787288219 0.156107167 5.041254776 4.57679E-07 2.53223E-05 505 2221.309734 1.675575485 0.333232694 5.0281905577 4.9513E-07 2.7375605 COME 1310.012838 0.880694737 0.17523001 5.05552898 5.010580E-07 2.73686E-05 58578 22805.003431 0.425227334 0.084603374 5.026127397 5.00483E-07 2.73686E-05 58578 1.88013075 0.3780138 5.028182877 5.00483E-07 2.73686E-05 FMCU1 489.7156857 1.88913075 0.3780138 5.023868613 5.06409E-07 2.753866E-05 CRECIA 1108.05573 0.86090139 0.178005607 5.023868613 5.00409E-07 2.75738E-05 CRECIA 1108.05573 0.86090139 0.178005607 5.023868613 5.020070 MMFP 399.0811631 1.367813286 0.272467587 5.000057048 5.18667E-07 2.791160-07 MRSIFP1 480.1309131 1.177976469 0.32474358 5.01841227 5.21738E-07 2.8114E-07 CRECIA 1114.881511 1.007080113 0.200792331 5.01500037 5.25399E-07 2.83381-05 KET01 114.881511 1.007080113 0.200792331 5.01530072 5.28878E-07 2.8331E-07 LWECK 1.855.527786 0.646170658 0.128902004 5.0118649 5.3327E-07 2.8331E-07 LWECK 1.8460343 1.3469527 0.28896636 5.01188110 5.3872E-07 2.87372E-07							
CMR. 1310.41255 0.880694737 0.175243001 5.02562985 5.01958 67 2.716865 05 SRYS 2805.003433 0.425227334 0.084603374 5.006127397 5.004836 07 2.736866 05 PUDLI1 498.7156857 1.999130753 0.37901158 5.038286118 5.064096 07 2.75288 05 CLECIIA 1100.805473 0.864091193 0.172069507 5.021756661 5.12016 07 2.775295 05 AMPP 399.0811631 1.367813266 0.272467587 5.000092048 5.16467c07 2.791190 05 AGIP 43.01509511 1.177976466 0.224743586 5.011861027 5.1738670 2.8134670 KCT011 115.468171 1.007080115 0.200792331 5.01500737 5.288736-07 2.833110 MFPE 3585.52786 0.646170556 0.12893000 5.01186102 5.39276-07 2.833216-07	PIN X1	578.2703505	0.787288215	0.156107167	5.043254776	4.57679E-07	2.53223E-05
\$8678 2805.001433 0.425227334 0.084603376 5.056127397 5.00483E-07 2.73686E-07 PXDL1 489.7156857 1.899130759 0.37802138 5.023886518 5.06409E-07 2.75286C 0.016121							
CLECILA 1100.805473 0.864091191 0.172089507 5.021756661 5.1201E 07 2.77525E-05 AMPEP 399.0811631 1.367813266 0.272467587 5.020092048 5.16467E-07 2.79119-05 MSU1FPI 430.10599311 1.173797646 0.224473586 5.018141222 5.1738E-07 2.81144E-05 AUP 115.3654677 1.760276824 0.350890399 5.016600137 5.25939E-07 2.83316-05 KCT011 115.483151 1.007080115 0.200792331 5.01530773 5.28873E-07 2.83316-05 MPCE 3585.527786 0.644170556 0.1283000 5.01178649 5.3927E-07 2.8732E-05 LIMC61 418.4630731 1.34959274 0.26809636 5.01181107 5.38725E-07 2.2732E-05			0.425227334	0.084603374	5.026127397	5.00483E-07	2.73686E-05
AMPEP 399.0811631 1.367812366 0.272467587 5.000020048 5.164676.07 2.791196.05			1.899130753				
AUP 115.3654677 1.760276824 0.350890399 5.016600137 5.25939E-07 2.82581E-05 KCT011 1154.881511 1.007800115 0.200792331 5.015300773 5.28873E-07 2.83331E-05 KETCE 3585.552786 0.648170556 0.128930200 5.0178659 5.3927E-07 2.87232E-05 LIMICEI 418.4630543 1.343695274 0.268096636 5.01981107 5.38725E-07 2.87232E-05	PKD2L1			0.172069507			
KCT011 1154.88151	PKD2L1 CLEC11A AN PEP	1100.805473 399.0811631	0.864091193 1.367812366	0.272467587	5.020092048	5.16467E-07	2.79119E-05
LRRC51 418.4630543 1.343695274 0.26809636 5.01981102 5.38725-07 2.87232E-05	PKD2L1 CLEC11A ANPEP RAB11FIP1	1100.805473 399.0811631 430.1509511	0.864091193 1.367812366 1.177976466	0.272467587 0.234743586	5.020092048 5.018141222	5.16467E-07 5.21738E-07	2.81144E-05
	PKD2L1 CLEC11A ANPEP RAB11FIP1 ASIP KCTD11	1100.805473 399.0811631 430.1509511 115.3654677 1154.881511	0.864091193 1.367812366 1.177976466 1.760276824 1.007080115	0.272467587 0.234743586 0.350890399 0.200792331	5.020092048 5.018141222 5.016600137 5.015530773	5.16467E-07 5.21738E-07 5.25939E-07 5.28873E-07	2.81144E-05 2.82581E-05 2.83331E-05
	PKD2L1 CLEC11A ANPEP RAB11FIP1 ASIP KCTD11 MEPCE	1100.805473 399.0811631 430.1509511 115.3654677 1154.881511 3585.552786	0.864091193 1.367812366 1.177976466 1.760276824 1.007080115 0.646170656	0.272467587 0.234743586 0.350890399 0.200792331 0.128930204	5.020092048 5.018141222 5.016600137 5.015530773 5.01178649	5.16467E-07 5.21738E-07 5.25939E-07 5.28873E-07 5.3927E-07	2.81144E-05 2.82581E-05 2.83331E-05 2.87232E-05

TMED3	3378.479477 1077 572996	0.857872644 0.559117265	0.171266192	5.009001671 5.004068386	5.47131E-07 5.61328E-07	2.89744E-05 2.95563E-05
FAM207A RHOB	1047.150115 26388.81989	1.018617158 -0.62719459	0.203555481 0.125373933	5.004068380 5.004125434 -5.002591658	5.61162E-07 5.65647E-07	2.95563E-05 2.95563E-05 2.96145E-05
AZG P1	2113.018909	1.624381729	0.324695618	5.002783037	5.65085E-07	2.96145E-05
MMP19	793.2385479	1.958559297	0.391566609	5.001854729	5.67814E-07	2.96437E-05
G PR150	103.6573029	1.793107451	0.358710124	4.998764543	5.76988E-07 5.75597E-07	2.98689E-05 2.98689E-05
HIST1H2BD DU SP14	355.0257067 1031.103555	1.268767432 0.858462344	0.253792565 0.171718327	4.999230103 4.999247072	5.75546E-07	2.98689E-05
CATSPER1 LCE1F	36.96760371 5.977872937 2406.931249	1.683183992 5.477000679	0.336827477 1.09659975	4.997169492 4.994530301 4.99497794	5.81779E-07 5.89791E-07 5.88425E-07	3.00325E-05 3.02765E-05
ARPCSL PERP	734.220125	0.69965957 1.358265045	0.140072605 0.27217815	4.990352982	6.02691E-07	3.02765E-05 3.08527E-05
TMEM127	4556.695302	0.517237923	0.103716631	4.987029713	6.13146E-07	3.1301E-05
GLA	1179.978346	0.879828047	0.17647638	4.985528633	6.17926E-07	3.14579E-05
IL2RG	738.9370385	1.722230356	0.345612379	4.983126937	6.25649E-07	3.17633E-05
STRA6	251.1455079	1.758932953	0.353516169	4.975537491	6.50668E-07	3.29428E-05
GEMIN 7	624.6155721	0.767765226	0.154389507	4.972910667	6.59551E-07	3.3301E-05
BRAP	1317.550854	0.27352247	0.055032286	4.970218168	6.68776E-07	3.36745E-05
G ALE	1106.507138	0.747079659	0.150341055	4.969232509	6.72184E-07	3.37539E-05
IER5L	2704.269292	1.202137708	0.24240408	4.959230499	7.0773E-07	3.54422E-05
O PA3	1253.997622	0.487982472	0.098415688	4.958380924	7.10831E-07	3.55011E-05
TEAD4	456.3804958	1.463951058	0.295325069	4.957083607	7.15592E-07	3.56423E-05
ST6G AL1	3340.276969	-0.853472132	0.172193575	-4.956469096	7.17858E-07	3.56588E-05
ZNF219	2411.217189	0.846888207	0.171118519	4.949132391	7.4545E-07	3.69298E-05
APOC3	4.255251318	5.067450981	1.024509148	4.946223261	7.56672E-07	3.73853E-05
RPP25	892.3090126	0.88406444	0.179177123	4.934025206	8.0552E-07	3.95865E-05
TRIP10	1416.949498	0.88617214	0.179604265	4.934026135	8.05517E-07	3.95865E-05
	185.9930095	2.047646421	0.415171718	4.932046981	8.13723E-07	3.98833E-05
KRTAP2-3	6.858058477	5.083483602	1.03202202	4.925751102	8.40369E-07	4.108E-05
STARD10	2056.031134	1.160400579	0.235681485	4.923596681	8.49679E-07	4.14252E-05
CDC14B	1730.432944	-0.786373132	0.159795726	-4.921114928	8.60526E-07	4.18433E-05
SFMBT2	1486.268503	-0.789342537	0.160511162	-4.917680025	8.75759E-07	4.24005E-05
ASG R2	142.4292121	1.669038749	0.339408303	4.917495347	8.76585E-07	4.24005E-05
MAD2L1BP	914.9588457	0.679202945	0.138154353	4.916261624	8.82125E-07	4.25568E-05
KRT8	131.430647	1.122404132	0.228336358	4.91557342	8.8523E-07	4.2595E-05
CTU1	617.1923642	1.069079087	0.217515993	4.91494474	8.88075E-07	4.26207E-05
SFSWAP	3674.980605	-0.506535105	0.103082064	-4.913901454	8.92816E-07	4.27369E-05
ECI2	3262.693549	0.658359951	0.134082878	4.910097098	9.10313E-07	4.34616E-05
TMEM91	790.8952383	0.945217639	0.192524853	4.909587638	9.12681E-07	4.3462E-05
U BALD2	4860.796022	1.148626789	0.233989519	4.908881361	9.15974E-07	4.35064E-05
BLVRB	3245.637699	0.998469152	0.203426072	4.908265401	9.18855E-07	4.3531E-05
TNFSF4	234.842758	1.577928608	0.321591227	4.90662828	9.26554E-07	4.37832E-05
HDAC6	4322.774363	-0.355033447	0.072367958	-4.905948088	9.29771E-07	4.38229E-05
AN G	325.6073878	1.225153366	0.249846188	4.903630421	9.40814E-07	4.42303E-05
EVA1B	1205.948456	1.287781505	0.262686897	4.902343887	9.46999E-07	4.44077E-05
FAM76A	620.9292983	-0.389374909	0.079444645	-4.901210263	9.5248E-07	4.44386E-05
PRAMEFS	21.66949306	3.800886088	0.775439727	4.901588035	9.5065E-07	4.44386E-05
IMPDH2	5136.900719	0.766063455	0.156337634	4.900057894	9.58084E-07	4.45872E-05
POLR2H	2031.618814	0.775616054	0.158395078	4.89671815	9.74505E-07	4.52371E-05
RIN1	1750.918608	1.413300472	0.288875662	4.892417936	9.96047E-07	4.6121E-05
ADAMTSL4	966.152885	1.547892963	0.316590405	4.889260504	1.01215E-06	4.66325E-05
AC008397.2	413.5767876	2.345091602	0.479624109	4.889436449	1.01125E-06	4.66325E-05
S100A11	14389.0648	1.458157859	0.298313259	4.888008888	1.01861E-06	4.68128E-05
COL24A1	149.5913853	-1.868778259	0.382519649	-4.885443832	1.03196E-06	4.73085E-05
TSPO	5186.318325	1.072855747	0.219706802	4.883124869	1.04418E-06	4.76315E-05
RNF19B	1801.382453	0.722026124	0.147856893	4.883276707	1.04337E-06	4.76315E-05
LCP1	4802.484575	1.317994646	0.269983439	4.881761091	1.05143E-06	4.78438E-05
TMEM250	2101.010867	0.590018199	0.120896323	4.880365144	1.0589E-06	4.8065E-05
AP2S1	4987.406097	0.839130973	0.171981294	4.879199084	1.06518E-06	4.82312E-05
LAMB3	657.1593629	1.282920285	0.263057641	4.876955029	1.07736E-06	4.86634E-05
C6orf141	412.9032226	1.619326391	0.332454712	4.870817983	1.11137E-06	5.00769E-05
PLXDC1	1228.156142	-1.201744804	0.246790795	-4.869487949	1.1188E-06	5.02922E-05
HDHD3	1110.26534	0.711466748	0.146171386	4.867346263	1.13107E-06	5.07164E-05
KRT80	69.73532187	2.552075249	0.524583331	4.864956814	1.14482E-06	5.12084E-05
BAK1	1256.707889	0.907341778	0.186735722	4.858961998	1.18003E-06	5.24018E-05
ACO D1	12.46944576	3.445386701	0.709038885	4.859235188	1.1784E-06	5.24018E-05
SAT1	25631.38244	1.055472719	0.217186283	4.859757735	1.17529E-06	5.24018E-05
F11R	1866.998288	1.137907869	0.234372856	4.855117995	1.20315E-06	5.33002E-05
RPF2	1183.366095	0.545796616	0.112440477	4.854093747	1.20939E-06	5.34479E-05
MCHR1	543.9603383	1.681377145	0.346450045	4.853158972	1.2151E-06	5.3572E-05
MRE11	822.7685538	-0.408651923	0.084216695	-4.852386123	1.21985E-06	5.36529E-05
AN G PTL4	4599.999148	1.243905735	0.256520761	4.849142534	1.23996E-06	5.44078E-05
BTN 3A1	1823.621023	-0.648998066	0.133902324	-4.846802101	1.25467E-06	5.49226E-05
RAB24	2540.704576	0.710505931	0.146698496	4.843307519	1.27695E-06	5.57654E-05
LRRK1	1827.000009	-0.582220754	0.120224386	-4.842784174	1.28032E-06	5.57803E-05
RHOC	13445.28691	0.923313196	0.190734933	4.84081853	1.29305E-06	5.62021E-05
PELO	984.4178382	0.675907747	0.139656766	4.839778011	1.29984E-06	5.63642E-05
CKAP4	3528.562225	0.928693324	0.192154995	4.833042848	1.34462E-06	5.81689E-05
TSPAN 4	1551.930806	0.963712762	0.199492519	4.830821551	1.35971E-06	5.84104E-05
VDR	164.3684032	1.603931299	0.332009246	4.830983829	1.3586E-06	5.84104E-05
LY6K	36.72651817	1.667779087	0.345179707	4.831625531	1.35423E-06	5.84104E-05
RAP2B	2867.823183	0.913857796	0.189212796	4.829788551	1.36678E-06	5.85777E-05
VWCE	1088.119441	1.32692473	0.274950486	4.82604977	1.39268E-06	5.95491E-05
TSPAN 17	2051.599309	0.581958509	0.120627051	4.824444491	1.40394E-06	5.98917E-05
CLDN 14	22.29576181	2.030622265	0.420991695	4.823425945	1.41113E-06	6.00595E-05
APO BEC3H	112.1717371	1.74420378	0.361785665	4.821096989	1.42771E-06	6.0625E-05
DPP7	14610.82902	0.860707922	0.178655365	4.817699838	1.45223E-06	6.15243E-05
SDSL	1767.63339	1.320792751	0.274263044	4.815788268	1.4662E-06	6.19738E-05
PMPCA	2940.518291	0.49751538	0.103329625	4.814837775	1.4732E-06	6.2127E-05
ORMDL3	3268.540792	0.4740128	0.098532642	4.810718485	1.50389E-06	6.32766E-05
MSANTD3	1345.05813	0.801722074	0.166735939	4.808333929	1.52193E-06	6.389E-05
PSMD2	8881.620931	0.478192824	0.099485837	4.806642211	1.53486E-06	6.42863E-05
BDN F	98.95835307	1.669930244	0.347601364	4.804153312	1.55408E-06	6.49435E-05
MIOX	17.84404349	2.461685398	0.512954955	4.799028402	1.55408E-06	6.64766E-05
DBF4B	770.903073	-0.858165979	0.179190968	-4.789114036	1.67519E-06	6.96888E-05
BRI3	5745.339151	0.926263774	0.193534197	4.786047053	1.70098E-06	7.06022E-05
SZT2 TWF2	3289.459719 3394.425934	-0.411593288 0.746214986	0.193534197 0.086010896 0.156011118	-4.785362141 4.783088519	1.70098E-06 1.70679E-06 1.72622E-06	7.06842E-05 7.13285E-05
NADK PLEKHN1	4186.436865 23.21290803	0.746214986 0.577629504 2.205656409	0.120851079 0.46190062	4.779680157 4.775175254	1.72522E-06 1.75574E-06 1.79551E-06	7.23861E-05 7.38603E-05
ABRACL TO M1	23.21290803 743.9467146 3564.531788	2.205656409 1.02718624 0.610561133	0.46190062 0.215274197 0.127976858	4.775175254 4.771525124 4.770871426	1.79551E-06 1.82836E-06 1.83431E-06	7.50443E-05 7.51209E-05
TOM1 CES2 MRPS12	3564.531788 4325.840726 1494.342934	0.807315422	0.169289808	4.768836541	1.85293E-06	7.51209E-05 7.57154E-05 7.58854E-05
ITGAS CIB1	4052.214909	0.870786935 1.31252501	0.182633853 0.275736169	4.76793826 4.760075597	1.86121E-06 1.9352E-06	7.85548E-05
DISC1	4436.072101	0.867649458	0.182272685	4.760172686	1.93427E-06	7.85548E-05
	661.7319755	-0.805335807	0.169290892	-4.757112441	1.96382E-06	7.95411E-05
	17.51469241	2.75239878	0.579185533	4.752188417	2.01227E-06	8.13247E-05
LGALS3	8674.637661	1.046843493	0.220336491	4.751112667	2.023E-06	8.15797E-05
LRRC42	936.8067853	0.547655508	0.115403982	4.745551233	2.07939E-06	8.36706E-05
SLC46A2	28.45678506	2.180818057	0.460124808	4.739622857	2.14116E-06	8.59684E-05
PYG B	11120.4509	0.467782957	0.098772721	4.73595293	2.18028E-06	8.73487E-05
BYSL	705.9831399	0.973260088	0.205552686	4.734844906	2.19223E-06	8.76368E-05
AP003419.1	1627.304666	1.473044927	0.311337913	4.73133809	2.23045E-06	8.89717E-05

PTHLH	260.423577	1.338371673	0.283240256	4.725217006	2.2987E-06	9.13241E-05
FAM177B	37.49621356	-1.678235485	0.355494902	-4.720842628	2.3487E-06	9.30841E-05
BCL3 KRT75	1487.536775 120.3607713	1.476453854 2.486924985	0.312908129 0.527125019	4.718489926 4.717903527	2.37602E-06 2.38287E-06	9.39649E-05 9.40342E-05
CANT1	2703.417168	0.772515659	0.163774752	4.716939887	2.39418E-06	9.42787E-05
UACA CLLU1OS	1502.492793 18.62554587	-0.646097925 3.816464081	0.137021505 0.809352586	-4.715303086 4.715453003	2.41351E-06 2.41174E-06	9.46353E-05 9.46353E-05
C1QTNF9 RSI 1DI	15.08707465 4291 649239	-1.499298709	0.318221712	-4.711490923	2.45911E-06	9.62186E-05
RSL 1D1 EIF 1AD	4291.649239 937.2418499	0.505169522 0.48747897	0.107309474 0.103588614	4.707594781 4.705912648	2.50657E-06 2.52733E-06	9.78677E-05 9.84696E-05
CSAD	1443.555339	-0.572060722	0.121740187	-4.699029443	2.61401E-06	0.000101632
CXCL13 MC1R	5.203046847 755.4610779	-1.683347343 0.993849109	0.358303225 0.211681469	-4.698108264 4.695021792	2.62582E-06 2.66578E-06	0.000101876 0.000103209
GSS	3101.334721	0.829253213	0.17674959	4.691683928	2.70966E-06	0.000104688
LYZ PHPT1	7555.013776 8127.540225	1.924791208 0.942376555	0.410586345 0.20101904	4.687908483 4.687996488	2.76011E-06 2.75893E-06	0.000106192 0.000106192
SON	1560.287618	-1.366691036	0.291933297	-4.681518167	2.84758E-06	0.000108879
HN RN PDL ABCD1	14043.36728 1715.667633	-0.297507682 0.891622751	0.063549499 0.190427799	-4.681511041 4.682208988	2.84768E-06 2.838E-06	0.000108879 0.000108879
TMEM159	383.9335432	0.883690119 -1.103709264	0.188831286 0.235904564	4.679786596	2.87174E-06	0.000109572
IGF1 SLC52A2	229.5684539 1885.999128	-1.103709264 0.793284467	0.235904564	-4.678626149 4.677675679	2.88803E-06 2.90145E-06	0.000109966 0.000110249
HIST1H3H	40.32618123	2.095344194	0.448038398	4.676706732	2.91519E-06	0.000110543
LTA4H FAM83F	3580.701466 80.62024613	0.662891871 1.396191213	0.14185482 0.298954533	4.673030291 4.670246003	2.96788E-06 3.00839E-06	0.00011231 0.000113378
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ATP6V1F IL27RA	8318.084401 301.1495957	0.701209306 0.83801544	0.150321049 0.179637459	4.664744624 4.665037266	3.09001E-06 3.08561E-06	0.000115979 0.000115979
DU SP5	684.3568993	1.463316121	0.313760712	4.663796539	3.10428E-06	0.000116278
PGF RCN1	1007.836478 6447.628863	1.521508134 1.007425871	0.326514033 0.216190465	4.659855255 4.659899651	3.16432E-06 3.16364E-06	0.000118047 0.000118047
RPS28	19819.20256	0.976991916	0.209701859	4.658956871	3.17816E-06	0.000118324
SHBBG RL3 TRAPPC5	12756.13946 3460.880433	0.921315441 0.926411814	0.197851629 0.199050136	4.656597694 4.654163182	3.21478E-06 3.25299E-06	0.000119446 0.000120622
CCDC107	1742.232544	0.902418007	0.194023539	4.651074871	3.30209E-06	0.000122197
SLC43A3 FUT11	2136.647903 842.4660242	1.069823711 0.34472225	0.230151772 0.07425189	4.648340107 4.642605716	3.34617E-06 3.44043E-06	0.00012358 0.000126302
AIFM2	839.900879	0.661598213	0.142495798	4.642931378	3.435E-06	0.000126302
MCOLN1 ALAS1	2740.281533 2183.373373	0.746031435 0.471371165	0.160665171 0.10154505	4.643392396 4.641990566	3.42735E-06 3.45069E-06	0.000126302 0.000126427
UVRAG	1266.64942	-0.645913767	0.139211001	-4.639818418	3.48715E-06	0.000127137
FAM210B FAHD1	3240.161977 959.4894791	0.622716585 0.338997822	0.13422939 0.073066574	4.639197029 4.639574647	3.49765E-06 3.49127E-06	0.000127137 0.000127137
MG AT1	7308.824229	0.717140813	0.154551462	4.640142543	3.48169E-06	0.000127137
DELE1 SMPD2	3126.700431 513.3541793	-0.235374126 0.614236273	0.050746038 0.13243124	-4.638275956 4.638152382	3.51327E-06 3.51538E-06	0.000127279 0.000127279
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ABHD14B ARMC7	2250.270471 627.1803396	0.801829312 0.584536212	0.172913206 0.12609002	4.637177978 4.635864222	3.53198E-06 3.55449E-06	0.000127379 0.000127443
IER5	2631.595595	1.091813427	0.235497046	4.63620858	3.54858E-06	0.000127443
LAMTOR2 GNS	3013.625025 7463.181899	0.931834907 0.830481769	0.200976894 0.179234188	4.636527561 4.633500885	3.54311E-06 3.59533E-06	0.000127443 0.000128657
FCER2	27.90095272	2.409210582	0.520019455	4.632923938	3.60537E-06	0.000128766
PRR13 TIMM17A	6677.772372 2357.074357	0.721879322 0.556596501	0.155883367 0.120242467	4.630893819 4.628951095	3.64091E-06 3.67523E-06	0.000129784 0.000130754
IL17RC	1610.875749	0.560353216	0.121066118	4.628489188	3.68343E-06	0.000130794
PIM2 UQCC3	648.3550982 1205.508694	1.09238887 1.027552483	0.236178618 0.222153417	4.625265736 4.625418319	3.74118E-06 3.73843E-06	0.000132081 0.000132081
DHRS13	891.6809726	0.840464482	0.181686997	4.625892309	3.72989E-06	0.000132081
ZDHHC18 CRABP2	1611.124664 348.2470467	0.670295493 1.362386335	0.144954752 0.294691813	4.624170545 4.623088508	3.761E-06 3.78068E-06	0.000132527 0.000132966
RTL5 TACR2	1391.139789 60.96772258	0.733743308 1.033148956	0.15880919 0.223750398	4.620282407 4.617417287	3.83218E-06 3.88545E-06	0.00013452 0.000136131
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RRP12	1435.096298	0.650847976	0.141049915 0.321312022	4.614309594 4.613673758	3.94404E-06	0.00013766
NAT16 NANS	156.7079496 1863.052332	1.482428845 0.802962584	0.321312022	4.6135/3/58 4.611570404	3.95613E-06 3.99638E-06	0.000137821 0.000138699
CTSD	89805.60668	1.18901938	0.257816764	4.611877679	3.99048E-06	0.000138699
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BLOC1S4	656.2617125 32 17654584	0.731286603 2.049367307	0.158735323 0.445228388	4.606955722 4.602957414	4.08607E-06 4.16533E-06	0.000141106 0.000143482
TNFRSF18	32.17654584 108.9452429	2.049367307 1.441569704	0.445228388	4.59702383	4.16533E-06 4.28569E-06	0.000143482
HIST2H2AA3 TMEM251	939.7412979 875.7218029	2.161224666 0.699915889	0.470235711 0.152518256	4.596045379 4.589063011	4.30585E-06	0.00014777
XCL1	8/5:/218029 8.812174827	-1.911553662	0.152518250		4.4524E-06	0.000152515
METRN L	2149.231716	1.16603054		-4.585975464	4.51872E-06	0.0001545
PLEKHI1 CTSA	2422.292033		0.254358693	4.584197713	4.55733E-06	0.000155531
SECTM1	10837.46943	0.712493893 0.861967426	0.254358693 0.155557169 0.188286207			
SRPRB PRELID1	555.0111309	0.861967426 1.58398563	0.155557169 0.188286207 0.346075629	4.584197713 4.580270364 4.577963739 4.576992706	4.55733E-06 4.64375E-06 4.69524E-06 4.71708E-06	0.000155531 0.000158188 0.000159647 0.000160094
	555.0111309 2452.241373 4412.4601	0.861967426	0.155557169 0.188286207 0.346075629 0.13417723 0.149785165	4.584197713 4.580270364 4.577963739	4.55733E-06 4.64375E-06 4.69524E-06	0.000155531 0.000158188 0.000159647
ANXA8L1 C17orf49	555.0111309 2452.241373 4412.4601 14.67058631	0.861967426 1.58398563 0.613758215 0.68429218 3.029530748	0.155557169 0.188286207 0.346075629 0.13417723 0.149785165 0.66323905	4.584197713 4.580270364 4.577963739 4.576992706 4.574235241 4.568491016 4.567781023	4.55733E-06 4.64375E-06 4.69524E-06 4.71708E-06 4.77963E-06 4.91248E-06 4.92915E-06	0.000155331 0.000158188 0.000159647 0.000160094 0.000161919 0.000166114 0.000166372
C17orf49 TLCD1	555.0111309 2452.241373 4412.4601 14.67058631 2836.524203 597.529117	0.861967426 1.58398563 0.613758215 0.68429218 3.029530748 0.843340807 1.26203702	0.155557169 0.188286207 0.346075629 0.13417723 0.149785165 0.66323095 0.184783311 0.276504385	4.584197713 4.580270364 4.57963739 4.576932706 4.574235241 4.568491016 4.567781026 4.56394465 4.5639466	4.5573E-06 4.64375E-06 4.69524E-06 4.71708E-06 4.71708E-06 4.91248E-06 4.92915E-06 5.0203E-06 5.01267E-06	0.00015531 0.000158188 0.000159647 0.00016904 0.000161919 0.000166114 0.000166372 0.000168825
C17orf49 TLCD1 PN PT1	555.0111309 2452.241373 4412.4601 14.67058631 2836.524203 597.529117	0.861967426 1.58398563 0.613758215 0.68429218 3.029530748 0.843340807 1.26203702	0.155557169 0.188286207 0.346075629 0.149785165 0.663733905 0.18978318 0.276504388	4.584197713 4.580270364 4.577953739 4.57692706 4.574235241 4.568491016 4.567781023 4.563944666	4.5573E-06 4.64375E-06 4.69524E-06 4.71708E-06 4.71708E-06 4.9215E-06 5.02013E-06 5.01267E-06 5.11702E-06	0.00015531 0.000153188 0.000159647 0.00016090 0.000161919 0.000166114 0.000168372 0.000168825 0.000158825
C17orf49 TLCD1	555.0111309 2452.241373 4412.4601 14.67058631 2836.524203 597.529117	0.861967426 1.58398563 0.613758215 0.68429218 3.029530748 0.843340807 1.26203702	0.155557169 0.188286207 0.346075629 0.13417723 0.149785165 0.66323095 0.184783311 0.276504385	4.584197713 4.580270364 4.577963739 4.576992706 4.57423541 4.568491016 4.567781023 4.56394666 4.564255779 4.555726832	4.5573E-06 4.64375E-06 4.69524E-06 4.71708E-06 4.71708E-06 4.91248E-06 4.92915E-06 5.0203E-06 5.01267E-06	0.000155531 0.000158188 0.000159607 0.00016909 0.000161919 0.000166114 0.000166372 0.000168825
C17orl49 TLCD1 PNPT1 LCN2 TFIP11 TRIB1	555.0111309 2452.24373 4412.4601 14.670586313 2836.52203 597.529117 1628.143004 56.52549297 1980.47685 1630.935681	0.881967426 1.58398653 0.613758215 0.64379218 3.029530748 0.84334007 1.26203702 -0.504107315 2.681341923 0.483066161 0.837751355	0.155557169 0.188286207 0.346975629 0.13417723 0.1469756156 0.66323905 0.134733111 0.275504185 0.11604987 0.588602776 0.099480676	4.58419713 4.580270364 4.577963739 4.57692706 4.574235241 4.568491016 4.567781023 4.563944666 4.564256799 4.55772683 4.555435300 4.554313164	4.55738 06 4.643756 06 4.643756 06 4.77068 06 4.77068 06 4.77068 06 4.91248F 06 4.91248F 06 5.00218 06 5.00218 06 5.17102F 06 5.17102F 06 5.172575 06 5.272772 06 5.272772 06 5.272772 06	0.000155531 0.000155888 0.000159647 0.000160094 0.000160094 0.000160194 0.000166312 0.000166372 0.000168325 0.000158355 0.000175785
C17of49 TLCD1 PNPT1 LCN2 TFIP11	555.0111309 2452.241373 4412.4601 14.67058631 2836.524203 597.529117 1628.143004 56.52542037 1980.47468	0.861967426 1.88398563 0.613758215 0.68427218 3.029530748 0.843340807 1.26203702 -0.504107335 2.681341923 0.453066161	0.155557169 0.1882882077 0.346075629 0.13437723 0.149758155 0.66323905 0.184783311 0.276504385 0.110609837 0.588602776 0.099480678	4.584157713 4.58027036 4.577953739 4.579632739 4.5789232641 4.568781013 4.56781013 4.56781023 4.55924666 4.5592265799 4.557728832 4.55434606 4.554313164	4.557318.06 4.643750.06 4.643750.06 4.717081.06 4.717081.06 4.912481.06 5.012670.06 5.012670.06 5.1710270.06 5.272726.06 5.2572726.06	0.000155318 0.000159188 0.00015004 0.00015004 0.00016014 0.000166314 0.000168825 0.000175382 0.000175785
C17of49 TLCD1 PNPT1 LCN2 TFIP11 TRIB1 PHX	555.011100 2452.24137 4412.4601 14.6705631 283.524203 597.52191 1628.14300 56.5254227 1980.47468 1639.935681	0.861967426 1.58398563 0.613778215 0.68429218 3.029580748 0.843340807 1.2620370 0.504107315 2.681341923 0.453066101 0.837775125 0.272266013	0.15555169 0.183282070 0.34607529 0.13417723 0.149783150 0.66123905 0.184783311 0.2756504383 0.110604987 0.588602776 0.0994800782 0.0994800782 0.0994800782	4.5841977.13 4.580270364 4.577963739 4.57692706 4.574235241 4.566781023 4.567381023 4.563944666 4.564256799 4.5557768837 4.555343406 4.55433406 4.55433406 4.55433406	4.557318.06 4.643754.06 4.643754.06 4.7170812.06 4.7170812.06 4.9124812.06 4.9124812.06 5.012181.06 5.012676.06 5.177722.06 5.277722.06 5.25577.06 5.25577.06	0.00155318 0.000159867 0.000159067 0.00016009 0.000161919 0.000166114 0.000168825 0.000158825 0.00017587 0.00017587 0.00017587
C17:0469 T1:CD1 PMPT1 LCN2 TFIP11 TIP11 TIP11 PMW APOE TP1 TIME1 ZNFSS1	555.0111307 2652.24173 4412.4601 14.67058611 2835.524033 597.529117 1628.145004 56.5254977 1980.47468 1639.935681 1669.935681 1669.935681 26062.63512 983.635003 757.4093019	0.861967426 1.58389630 0.613758215 0.68429218 3.02559748 0.843340807 1.26203702 0.504107313 2.681141923 0.453066161 0.837751355 0.272266033 1.278266369 0.6304617313 1.98906411 0.719985017	0.155557169 0.188286207 0.346075629 0.1341723 0.149783115 0.66323905 0.184733111 0.276504385 0.116604987 0.588602776 0.099480678 0.18400522 0.0998140678 0.137528588 0.1137528588	4.584197713 4.58027063739 4.57963739 4.57963739 4.57963739 4.57963739 4.57963730 4.56781023 4.56891016 4.56726033 4.56326679 4.553776832 4.55346669 4.55426679	4.557314.06 4.643756.06 4.643756.06 4.673764.06 4.7170814.06 4.9124814.06 4.9124814.06 5.012476.06 5.171021.06 5.1	0.00015518 0.00015918 0.00015918 0.000159047 0.0001601919 0.000166114 0.000166312 0.000168825 0.000175878 0.000175878 0.000175878 0.000175878 0.000175878
C17:0499 TLCDI PMPITI LCN2 TTPIII TR811 P949X MODE TPII TUPI TUPI TUPI TUPI TUPI TUPI PLOS	555.0111309 2452.24137 4412.4601 14.67058631 2836.5244031 597.529117 1628.143004 56.5254937 1980.474681 1669.30478 2546831,7261 26062.63512 983.565333 757.4093035 22910.89111	0.861967426 1.5839863 0.613738215 0.68427218 3.029530746 0.8433346007 1.2620370 -0.504107215 2.681341973 0.453066161 0.837751355 0.277266033 1.27286633 1.27286633 0.63041731 0.959966411 0.719995017 0.82552933	0.15555169 0.188286207 0.346075629 0.13417722 0.149785165 0.66623905 0.134783311 0.276504385 0.11604987 0.588602776 0.09983404 0.09583444 0.28111853 0.117295858 0.2133806217 0.158537272 0.181992231	4.58419713 4.580270364 4.577963739 4.577963739 4.576932700 4.574235241 4.566781023 4.567381023 4.563344666 4.564256739 4.555435405 4.554334464 4.554354344 4.55435434 4.55433446 4.55433444 4.55433444 4.55433444 4.55433444 4.55433444 4.55433444 4.55433444 4.55433444 4.55433444 4.55433444 4.55433444 4.55433444 4.55433444 4.55433444 4.55433444 4.55433444 4.54434444 4.5443444 4.54434444 4.5443444 4.5443444 4.5443444 4.5443444 4.5443444 4.5443444 4.5443444 4.5443444 4.5443444 4.5443444 4.5443444 4.5443444 4.5443444 4.5443444 4.5443444 4.5443444 4.5443444 4.5443444 4.54434444 4.544344 4.544344 4.544344 4.544344 4.544344 4.544344 4.544344 4.54434 4.54444 4.54434 4.54434 4.54434 4.5444 4.54	4.557318.06 4.643750.06 4.643750.06 4.717080.06 4.717081.06 4.717081.06 4.717081.06 5.010318.06 5.010318.06 5.010318.06 5.17170.06 5.17170.06 5.277718.06 5.277718.06 5.237718.06 5.237718.06 5.237818.06 5.238818.06 5.238818.06 5.238818.06 5.238818.06 5.238818.06 5.238818.06 5.238818.06	0.000159382 0.000159467 0.000159667 0.00016909 0.00016919 0.000169119 0.000168352 0.000175367
CIZOMS9 TLCDI PHYPTI LON2 TIPPII TRRB1 TRRB1 TRRB1 TRRB1 TRVI TRRB1 TRVI TRVI TRVI TRVI TRVI TRVI TRVI TRVI	555.0111307 2652.24127 4412.4601 14.67058611 2835.524033 597.529117 1628.143000 56.52549927 1930.47468 1639.935681 1669.935681 26062.635312 983.5653033 757.6093031 22910.89111 112741.72414 2976.984366	0.861967426 1.5839853 0.613738215 0.6442218 1.025930746 0.843234607 1.2603703 0.50107215 2.681341922 0.453066161 0.837751355 0.272266313 1.272266593 0.624041731 0.989966411 0.719996017 0.72565333 0.95793645	0.155557169 0.188286207 0.346075629 0.13417723 0.14978511 0.1696387 0.184783111 0.276504185 0.116604887 0.09893444 0.28111853 0.13729585 0.1233860217 0.158537373 0.131992231 0.219915986 0.115345699	4.58419713 4.58077053739 4.57963739 4.57963739 4.57963739 4.57963739 4.57963739 4.557180323 4.56781023 4.56781023 4.56781023 4.567878023 4.553776832 4.553776832 4.5537833436 4.553825864 4.553825864 4.553825864 4.553825864 4.553825864 4.553825864 4.554838378 4.54484466 4.541588333 4.541738451	4.557312.60 4.643756.06 4.643756.06 4.643756.06 4.7170812.66 4.7170812.66 4.7170812.66 5.0121676.06 5.0121676.06 5.272776.06 5.272776.06 5.3434186.06 5.383856.06 5.583856.06 5.583856.06 5.583856.06 5.583856.06 5.583856.06	0.000155138 0.000159184 0.000159047 0.00016019047 0.0001601191 0.0001601191 0.0001601191 0.0001601191 0.0001601191 0.0001601191 0.00017578 0.00017578 0.000175878 0.000175879 0.000180191 0.000181590 0.000181590 0.000181590
C17:0499 TLCDI PMPITI LCN2 TFIPII TR81 PHW ANDE TD1 TMF1 TMF1 TMF1 PLOS LNNA SICZOLI TMEMZ18	555.0111308 2452.24137 4412.4601 14.67058313 2836.524202 595.539137 1628.14300 56.5249297 1980.47468 1630.3479 254438.7763 2606.263322 983.5651033 757.40030317 22741.72414 2276.984463 776.680463	0.861967426 1.58398630 0.613738215 0.68429218 3.029530748 0.843306607 1.26203700 0.504107315 2.683341923 0.453066161 0.837751355 0.272266011 1.772268031 0.77295031 0.95906411 0.79959334	0.155557169 0.182826207 0.346075629 0.13417723 0.149785156 0.66233905 0.134478311 0.27650438 0.11604987 0.588602776 0.059480675 0.059480675 0.13170598344 0.281111853 0.113705853 0.213380617 0.181992231 0.181992231 0.210315985	4.584197718 4.580270164 4.577963739 4.577963739 4.577963739 4.576783739 4.556781023 4.568781023 4.568781023 4.568781023 4.558736863 4.558726833 4.558736833 4.558736833 4.558736833 4.558736833 4.558736833 4.558738833 4.558738833 4.558738833 4.558738833 4.558738833 4.558738833 4.558738833 4.558738833 4.558738833 4.558738833 4.558738833 4.558738833	4.557318.06 4.643754.06 4.643754.06 4.717084.06 4.717084.06 4.717084.06 4.717084.06 4.717084.06 5.7170	0.00155388 0.000159647 0.000159667 0.000160904 0.000161919 0.000161919 0.000161919 0.000161919 0.000168123 0.000173582 0.000173582 0.000173583 0.000173583 0.000173583 0.000173583 0.000173584 0.000173594 0.000173594 0.000184159 0.000184159 0.000184159
CIZOMS9 TLCDI PHYPTI LON2 TIPPII TRRB1 TRRB1 TRRB1 TRRB1 TRVI TRRB1 TRVI TRVI TRVI TRVI TRVI TRVI TRVI TRVI	555.0111307 2652.24127 4412.4601 14.67058611 2835.524033 597.529117 1628.143000 56.52549927 1930.47468 1639.935681 1669.935681 26062.635312 983.5653033 757.6093031 22910.89111 112741.72414 2976.984366	0.861967426 1.5839853 0.613738215 0.6442218 1.025930746 0.843234607 1.2603703 0.50107215 2.681341922 0.453066161 0.837751355 0.272266313 1.272266593 0.624041731 0.989966411 0.719996017 0.72565333 0.95793645	0.155557169 0.188286207 0.346075629 0.13417723 0.146785219 0.13417723 0.146785211 0.276504855 0.116064857 0.158602775 0.0598632475 0.059863444 0.23111853 0.13729858 0.2133806217 0.15840572 0.1540572 0.1540572 0.1540572 0.1540572 0.1540572 0.1540572 0.1540572 0.1540572 0.1540572 0.1540572 0.1540572 0.1540572 0.1540572 0.1540572 0.1540572 0.1540572	4.58419713 4.58027036 4.577963739 4.577963739 4.577963739 4.577963739 4.56781033 4.568491016 4.56781033 4.55843669 4.55472693 4.55573693 4.55573693 4.55573693 4.55573693 4.55573693 4.55573693 4.55573693 4.55573693 4.55573693 4.55573693 4.5513369695	4.557318.06 4.649754.06 4.649754.06 4.717084.06 4.717084.06 4.79934.06 4.91948.06 5.010318.06 5.010267.06 5.17106.06 5.277778.06 5.35976.06 5.359854.06 5.359854.06 5.359854.06 5.359787.06 5.359787.06 5.359787.06 5.359787.06 5.359787.06 5.359787.06 5.3597878.06 5.35978878.06 5.3597878.06 5.3597878.06 5.3597878.06 5.3597878.06 5.35978788.06 5.35978788.06 5.35978788.06 5.3597878888888888888888888888888888888888	0.000155138 0.000159184 0.000159047 0.00016019047 0.0001601191 0.0001601191 0.0001601191 0.0001601191 0.0001601191 0.0001601191 0.00017578 0.00017578 0.000175878 0.000175879 0.000180191 0.000181590 0.000181590 0.000181590
C17:0469 TLCDI PMPITI LCN2 TFIP11 TR81 PHW APOE TP11 TLW1 TLW1 ZNF581 PLOS LNWA SLCIONA TWENO38 HMSG.L C15:0481	555.0111307 245.2 241717 4412.4601 14.67058231 283.5247027 595.759117 1628.14300 56.5247027 1980.47468 1630.935681 1669.03479 254.4832.7251 2666.263512 983.5653033 757.46930319 22910.89111 12741.72414 2979.58944651 2236.580107 3126.75784688 2796.612465	0.861967426 1.58398630 0.613758215 0.68429218 3.029530748 0.83430807 1.2623700 0.504107315 2.681341922 0.45306610 0.837751355 0.727266013 1.272266033 0.59506411 0.719995017 0.826529333 0.95936846 0.52363411 1.3227963341 1.3227963341	0.155557169 0.188268077 0.346075629 0.13417722 0.134778311 0.275504385 0.13607277 0.059602777 0.059602777 0.059602777 0.134763311 0.13725533 0.131905237 0.131905237 0.131905237 0.131905237 0.131905231 0.13195537 0.13195231 0.13195231 0.13195231	4.58419713 4.58027036 4.577963739 4.57963739 4.57963730 4.57963730 4.57813541 4.568491016 4.567381023 4.553944656 4.554738023 4.553944656 4.554738079 4.55776832 4.55433463 4.552802875 4.55433463 4.552802875 4.55433478 4.54184433 4.54184433 4.54184433 4.54184433 4.54184333 4.54184333 4.54184333 4.54184333 4.54184333 4.54184333 4.54184333 4.54184333 4.54184333 4.54184333 4.54184333 4.54184333 4.54184333 4.54184333 4.54184333 4.54184333 4.54184333 4.54184333 4.54184333 4.541853333	4.557318 06 4.643750 06 4.643750 06 4.7170810 06 4.7170810 06 4.7170810 06 4.7170810 06 5.7170810 06 5.7170810 06 5.7170810 06 5.717778 06 5.717778 06 5.717778 06 5.717778 06 5.71778 06 5.71778 06 5.71778 06 5.71778 06 5.71778 06 5.71778 06 5.71778 06 5.71778 06 5.71778 06 5.71778 06 5.71788 06 5.778188 06	0.0015538 0.000158188 0.000158087 0.000150087 0.000160114 0.000166114 0.000166114 0.0001688125 0.000158825 0.000175825 0.000175825 0.000175825 0.000175825 0.00018825 0.00018825 0.00018825
C17-0499 TLCDI PHIPTI LON2 TTT911 TR81 PHIV TR81 PHIV TR81 PHIV TR81 LINIA TUP1 TUP1 TUP1 TUP1 TUP1 TUP1 TUP1 TUP1	555.0111300 245.2 24137 4412.4601 14.6705831 228.5 254203 597.529137 1628.14300 56.52549297 1980.47468 1630.93561 1606.93479 224488.7261 2606.63512 983.5653033 757.4093039 22910.89111 12721.72441 2278.984360 79.6894451 2286.76107 326.7578488 2796.612655 18.2455852 18.2455853	0.861967426 1.5839863 0.613738215 0.68427218 3.029530746 0.843346007 1.26203707 2.564137415 2.681341973 0.453066161 0.837751355 0.277266033 1.77266033 0.59506411 0.713995017 0.82552933 0.957938646 0.52564311 1.32279629 0.7473973116 1.11055300 1.27430505 2.943568941	0.155557169 0.188286207 0.346075629 0.13417723 0.146775156 0.66323905 0.13417731 0.275504185 0.11604987 0.588602776 0.099480672 0.13840528 0.05983344 0.28111853 0.137295858 0.2133806177 0.158537379 0.181992231 0.21051958 0.213380617 0.15555658	4.5841977.13 4.58027016 4.577963739 4.577963739 4.577963739 4.577863739 4.5647135241 4.5668491016 4.567781023 4.553716823 4.553716823 4.554736079 4.55776823 4.554736079 4.557268079 4.557268079 4.557268079 4.557268079 4.554736079 4.554736079 4.554736079 4.554736079 4.554736079 4.554736079 4.554736079 4.554736079 4.554736079 4.554736079 4.554736079 4.554773607 4.554773607 4.554773607 4.554773607 4.554773607 4.554773607 4.554773607 4.554773607 4.554773607 4.554773607 4.554773607 4.554773607 4.554773607 4.554773607 4.554773607 4.554773607 4.554773607 4.554773607 4.5547737 4.554773607 4.554773607 4.5547737 4.5547737	4.557318.06 4.64375.06 4.64375.06 4.64375.06 4.71708.06 4.71708.06 4.71708.06 4.71708.06 4.71708.06 4.71708.06 5.71772.06 5.7172.06	0.00155184 0.000151867 0.000151867 0.000151867 0.000151867 0.000161919 0.000161919 0.000161919 0.000161919 0.00016813 0.000175582 0.000175587 0.000175587 0.000175587 0.000175587 0.000175587 0.000175587 0.000175587 0.00018758
CI70699 TLCD1 PMPT1 LON2 TRIP11 TRIB1 PMWX APOCE TRI1 ZNYSS1 PLOS LONNA SLCZOAL THMEMQZIS HMGGCL CI906S1 SLCZAA ORMI MMP12 MWP12 KNYE1	555.0111307 265.2 261173 412.4601 14.67058631 283.652403 595.529117 1628.14300 56.5240297 1980.47468 1680.93578 1980.47468 1680.93578 254438.7761 2606.26531 275.4093099 22910.89111 12741.72414 2379.594360 775.694361 2236.280107 336.57578688 2796.612655 18.2445388 2796.612655 18.2445388 2796.612655	0.861967426 1.58398563 0.613738215 0.68429218 3.029580748 0.834340807 1.2603703 2.561341923 0.453066101 0.837751355 0.272266013 1.272368503 0.524041731 0.95906411 0.719995017 0.825529333 0.957386844 1.23263831 1.2726633	0.155557169 0.182786207) 0.346075629 0.13417232 0.149785165 0.66529905 0.134778311 0.275504385 0.110604987 0.059846077 0.059846077 0.059854645 0.281111853 0.137259585 0.2133380617 0.158523772 0.159958465 0.213340617 0.15940523 0.210915986 0.113546599 0.291475642 0.164668191 0.2599688319 0.259588453 0.259588453	4.58419713 4.580270364 4.57963739 4.57963739 4.57963739 4.57963739 4.57963739 4.57978033 4.56931016 4.56738033 4.563934656 4.564256799 4.557776832 4.55413406 4.552863873 4.54134136 4.54134133 4.541484403 4.5415983835 4.5415983835 4.541598432 4.53596373 4.535973833 4.541694609 4.541593835 4.541594313 4.541694609 4.541593835 4.541594313 4.541694609 4.541593835 4.541694609 4.541593835 4.54159451 4.53969505 4.5341342 4.53103705 4.5341342 4.53103705 4.5341342 4.53103705 4.5341342 4.53103705	4.557318 C6 4.64375 C0 4.64375 C0 4.64375 C0 4.71708 C0 4.71708 C0 4.71708 C0 4.71708 C0 5.01218 C0 5.01218 C0 5.01218 C0 5.01218 C0 5.01277 C0 5.2577 C0 5.	0.00155381 0.000159847 0.000159867 0.000160919 0.000160919 0.000160119 0.000166114 0.000166127 0.000168825 0.000175827 0.000175827 0.000175827 0.000175827 0.000175827 0.000175827 0.000175827 0.000175828 0.00018782 0.00018782 0.00018782 0.00018782 0.00018782 0.00018782 0.00018782 0.00018782 0.00018782 0.00018782 0.00018782 0.00018782 0.00018782
CI7o469 TICON TICO	555.0111309 245.2 24137 4412.4601 14.67058313 283.6524729 597.599117 1628.14300 56.55249297 1980.47465 1630.935681 1660.93479 2544387,781 2600.2 55312 983.565303 757.40930319 279.689124 12741.7244 275.58912 223.2 260107 326.7574688 2796.612455 18.34453886 2796.612455 18.3453883 43.3955337 82.33938777 147.991233	0.861967426 1.5839863 0.613738215 0.68429218 3.0253340807 1.26239218 2.683341923 0.4530416715 2.683341923 0.453066161 0.837751155 0.277266011 1.772768031 0.959064117 0.712957916846 0.52354311 1.12276293 0.743397161 1.1724718345 1.17243718 1.131055301 3.2743569841 1.24718345 1.692678477 0.6551584808	0.155557160 0.188268207 0.346075629 0.13417722 0.1347783115 0.75504388 0.116696387 0.588602776 0.059460579 0.1346753317 0.13950576 0.059460579 0.134605279 0.134605279 0.134605279 0.134605279 0.13460529 0.13460529 0.13460529 0.13460529 0.13460529 0.13460529 0.13460529 0.13460529 0.1346529	4.58419713 4.580270164 4.577963739 4.577963739 4.577963739 4.577963739 4.576781023 4.568491016 4.56781023 4.563914666 4.56781023 4.553914666 4.554134666 4.554134666 4.554134666 4.554134666 4.554134666 4.554134666 4.554134666 4.554134666 4.554134666 4.554134666 4.554134666 4.554134666 4.554134666 4.554134666 4.554134666 4.554136666 4.554136666 4.5541366666 4.5541366666 4.5541366666666666666666666666666666666666	4.557318 06 4.64375 06 4.64375 06 4.67376 06 4.71708 16 4.71708 16 4.71708 16 4.71708 16 4.71708 16 4.71708 16 5.7170 16 5.717	0.0015818 0.00015818 0.00015818 0.000158067 0.000169191 0.000169191 0.000169191 0.000169191 0.000169191 0.00016932 0.000175676 0.000178578 0.000178578 0.000178578 0.000178578 0.000178578 0.000178578 0.000189391 0.000189391 0.000189391 0.000185984 0.000185984 0.000185984 0.000185984 0.000185984 0.000185984
CI70699 TLCDI PMPT1 LON2 TIPP11 TRIB1 PREX APOE TP11 TRIB1 PEX APOE TP11 TRIB1 PLS LON2 TP12 TRIB1 CAPOE TP11 TRIB1 TRIB	555.0111307 265.224137 4121.4601 14.67058631 283.652403 595.529117 1628.14300 56.52403 595.529117 1628.14300 56.524037 1980.47468 1680.93479 254438.7261 26062.65312 275.4438.7261 2797.594350 775.6894651 2236.260107 236.7572488 2796.612455 18.2445388 43.39639377 147.9913977 2216.839377	0.861967425 1.58398563 0.613758215 0.64842218 3.025530746 0.8432318 3.025530746 0.8432318 3.025530746 0.843340807 1.26203707 0.504107315 2.681141923 0.453066161 0.837751355 0.272266613 1.272266513 1.272266513 0.523634311 1.3277697316 1.17924718 1.117924718	0.155557169 0.182786207 0.346675529 0.1341723 0.149783165 0.66323905 0.184783311 0.279504185 0.110604987 0.538602775 0.099460678 0.13411863 0.137939858 0.1313906217 0.158527373 0.11992231 0.210590868 0.213180627 0.294186129 0.2959988888 0.2359988888 0.2359988888 0.2359988888 0.2359988888 0.2359988888 0.2359988888 0.2359988888 0.2359988888 0.2359988888 0.2359988888 0.2359988888 0.2359988888 0.2359988888 0.2359988888 0.2359988888 0.2359988888 0.2359988888	4.584197.13 4.580720164 4.57963739 4.57963739 4.57963739 4.57963739 4.57963739 4.57973023 4.56981016 4.567781023 4.56981016 4.567256730 4.559726832 4.55943405 4.559275832 4.55943405 4.55922753 4.55726832 4.55943405 4.55922753 4.55128078 4.55128078 4.55128078 4.55128078 4.55128078 4.55128078 4.55128078 4.55128078 4.55128078 4.55128078 4.55128078 4.55287388 4.53869562 4.53969752 4.53873883 4.53869562 4.53967972 4.537505626 4.53297873 4.53297873	4.557318.06 4.643750.06 4.643750.06 4.717081.06 4.717081.06 4.717081.06 4.912481.06 4.912481.06 5.012670.06 5.012670.06 5.112002.06 5.227772.06 5.23577.06 6.23577.06	0.00155318 0.000159181 0.000159181 0.000159181 0.000150191 0.000160191 0.000160191 0.000160191 0.000160191 0.000160191 0.000160191 0.00017575 0.00017575 0.00017575 0.00017575 0.00017575 0.00017575 0.00017575 0.00017575 0.00017575 0.00017575 0.00018159 0.000181596 0.000181596 0.000181596 0.00018596
C17-0499 T1CDI PHIPTI LON2 TTIP11 TR81 PHW TR81 PHW APOE TPI TIA-1 LUNA SUCOAL LUNA SUCOAL LUNA SUCOAL SUCO	555.0111309 245.2 24137 4412.4601 14.67058313 283.6524729 597.599117 1628.14300 56.55249297 1980.47465 1630.935681 1660.93479 2544387,781 2600.2 55312 983.565303 757.40930319 279.689124 12741.7244 275.58912 223.2 260107 326.7574688 2796.612455 18.34453886 2796.612455 18.3453883 43.3955337 82.33938777 147.991233	0.861967426 1.5839863 0.613738215 0.68429218 3.0253340807 1.26239218 2.683341923 0.4530416715 2.683341923 0.453066161 0.837751155 0.277266011 1.772768031 0.959064117 0.712957916846 0.52354311 1.12276293 0.743397161 1.1724718345 1.17243718 1.131055301 3.2743569841 1.24718345 1.692678477 0.6551584808	0.155557160 0.188268207 0.346075629 0.13417722 0.1347783115 0.75504388 0.116696387 0.588602776 0.059460579 0.1346753317 0.13950576 0.059460579 0.134605279 0.134605279 0.134605279 0.134605279 0.13460529 0.13460529 0.13460529 0.13460529 0.13460529 0.13460529 0.13460529 0.13460529 0.1346529	4.58419713 4.580270164 4.577963739 4.577963739 4.577963739 4.577963739 4.576781023 4.568491016 4.56781023 4.563914666 4.56781023 4.553914666 4.554134666 4.554134666 4.554134666 4.554134666 4.554134666 4.554134666 4.554134666 4.554134666 4.554134666 4.554134666 4.554134666 4.554134666 4.554134666 4.554134666 4.554134666 4.554136666 4.554136666 4.5541366666 4.5541366666 4.5541366666666666666666666666666666666666	4.557318 06 4.64375 06 4.64375 06 4.67376 06 4.71708 16 4.71708 16 4.71708 16 4.71708 16 4.71708 16 4.71708 16 5.7170 16 5.717	0.001519867 0.0001519867 0.0001519867 0.0001519867 0.000161919 0.000161919 0.000161919 0.000161919 0.000161919 0.000168125 0.000173587 0.000173587 0.000173587 0.000173587 0.000173587 0.000173587 0.000173587 0.000173587 0.000173587 0.00018759 0.00018759 0.00018759 0.00018759 0.00018759 0.00018759 0.00018759 0.00018759 0.00018759
CIZO669 TICDI PHYPTI LON2 TIPPII TWB1 TWB1 TWB1 TWB1 TWB1 TWB1 TWB1 TWB1	555.0111307 265.224173 412.4601 14.67058631 283.652403 595.529117 1628.14300 56.524203 1639.935681 1669.03479 254438.7261 26062.65312 275.403937 275.40393	0.861967425 1.58398563 0.613738215 0.64472218 1.26037074 0.843324607 1.26037070 1.26037070 1.26037070 1.26037070 1.26037070 1.26037070 1.26037070 1.272266031 1.272266593 0.63404173 1.272266593 0.63404173 1.272766593 0.53564331 1.322766593 0.74737316 1.132276599 1.132276599 1.132276599 1.132276599 1.132276599 1.132276593 1.132276599 1.132276	0.155557169 0.188286207 0.346075629 0.1341723 0.149785165 0.66323905 0.134778311 0.276504385 0.110604987 0.538602776 0.099480678 0.13405328 0.137295888 0.213390617 0.138537377 0.118902231 0.210915988 0.213390617 0.255464539 0.2599588883 0.24949121 0.722584453 0.669878045 0.274548155 0.374039488 0.1349688370 0.13456887804 0.274548155 0.374039488 0.1349688370 0.134588876 0.134588388	4.58419713 4.580270164 4.577963739 4.577963739 4.577963739 4.577963739 4.57873524 4.586781013 4.568781	4.557318.06 4.66524E.06 4.71708E.06 4.67952E.06 4.71708E.06 4.71708E.06 4.71708E.06 5.01018E.06 5.01018E.06 5.17102E.06 6.17102E.06 6.1710	0.00151518 0.000159617 0.000159617 0.000159617 0.000161919 0.000161919 0.000161919 0.000161919 0.000161919 0.000175167 0.000175167 0.000175167 0.000175167 0.000175167 0.000175167 0.000175167 0.000175167 0.000175167 0.000175167 0.000181918 0.000181918 0.000181918 0.000181918 0.000181918 0.000181918 0.000181918 0.000181918 0.000181918 0.000181918 0.000181918 0.000181918 0.000181918
CI70699 TLCD1 PMPT1 LCN2 TIPP11 TRB1 PPWX APOCE TP11 TRB1 PWX APOCE TP11 TRB1 PWX APOCE TP11 TRB1 PLD3 LCN2 TR41 TRM1 PLD3 LCN2 TR41 TRM0218 HMGCL CI30681 SLC2A3 ORMI MMP12 LWM94 TCTN3 BMP4 TCTN3 BM	555.0111307 265.24127 265.24127 412.4601 14.6705831, 283.6524023 597.579117 1628.14300 56.5240237 1980.47468 1630.935681 1609.03479 254838.726, 2606.2635 275.4093039 22910.8911 12741.72414 2379.584451 2226.260107 326.7576483 2796.612455 18.2443388 2796.612455 18.2443388 2796.612455 18.2443388 2796.612455 18.2443388 2796.612455 18.2443388 2796.612455 18.2443388 2796.612455 18.2443388 2796.612455 18.2443388 2796.612455 18.2443388 2796.612455 18.2443388 2796.612455 18.2443388 2796.612455 18.2443388 2796.612455 18.24433888 2796.612455 18.24433888 2796.612455 18.24433888 2796.612455 18.24433888 2796.612455 18.24433888 2796.612455 18.2433888 2796.612455 18.2433888 2796.612455 18.2433888 2796.612455 18.2433888 2796.612455 2796.7913877 2797.791377 2797.791377	0.861967426 1.5839853 0.613758215 0.68429218 3.029530748 0.83430607 1.2623702 0.504107315 2.681341923 0.45306611 0.837751355 0.272266013 1.272266013 1.272266013 1.272266013 1.272366013 1.272366013 1.272366013 1.272366013 1.272366013 1.2723650310 0.52363611 1.2723653933 0.957936846 0.523653933 0.723797151 1.131055301 1.2741053 1.131055301 1.2741053 1.15934578 1.1594478 1.15	0.155557169 0.182786207) 0.346075629 0.13417232 0.149785165 0.66329905 0.134778311 0.275504385 0.11060987 0.059846077 0.059846077 0.059846077 0.134107333 0.13735852	4.58419713 4.58027036 4.577963739 4.57963739 4.57963739 4.57963730 4.57963730 4.57963730 4.56781033 4.563914666 4.564256790 4.55778633 4.55433466 4.552802873 4.552802873 4.55433466 4.552802873 4.54128433 4.54128433 4.54128433 4.54128433 4.54128433 4.54128433 4.54128443 4.5412843 4.5412	4.557318 G6 4.64375 G7 4.64375 G7 4.71708 G7 4.71708 G7 4.71708 G7 4.71708 G7 4.71708 G7 4.71708 G7 5.0118 G7 6.0118 G7 6.018 G7 6.018 G7 6.018 G7 6.018 G7 6.018 G7 6	0.00159381 0.000159181 0.000159181 0.000159181 0.000159181 0.00016911 0.00016911 0.00016911 0.00016911 0.00016911 0.00016911 0.00017582 0.000175835 0.000175835 0.000175835 0.000175835 0.000175836 0.00018191 0.00018191 0.00018191 0.00018191 0.00018191 0.00018191 0.00018191 0.00018191 0.00018191 0.00018191 0.00018191 0.00018191 0.00018191 0.00018191 0.00018191 0.00018191 0.00018191
CITORIOS TICOSI PRIPTI LON2 TIPPII TRIBI T	555.0111307 265.226173 412.4601 14.67058631 283.652403 595.529117 1628.14300 56.524027 1928.72627 1928.72627 1928.72627 1928.72627 1928.72627 1928.72627 1929.039131 1774.17244 2976.934585 175.4039358 175.5039358 175.5039358 175.5039358 175.5039358 175.5039358 175.5039358 175.5039358 175.5039358 175.5039358 175.5039358 175.5039358 175.5039358 175.5039358 175.5039358 175.5039358 175.5039358 175.5039358 175.5039358 175.703935	0.861967426 1.5839853 0.613738215 0.6442218 1.027530746 0.843236907 1.26037070 0.504107215 2.68124122 0.45306616 0.837751355 0.272266013 1.778236559 0.624041731 0.95906411 1.779236559 0.624041731 1.32796299 0.74737216 1.179245718 1.131055301 1.179245718 1.131055301 1.179245718 1.131055301 1.179245718 1.131055301 1.179245718 1.131055301 1.179245718 1.131055301 1.179245718 1.131055301 1.179245718 1.131055301 1.179245718 1.17	0.155557169 0.182826070 0.348675529 0.1341723 0.149783115 0.66323905 0.149783111 0.275504385 0.110604887 0.588602775 0.099480678 0.1380522 0.0588602775 0.13805273 0.1380527	4.58419713 4.58027036 4.57963739 4.57963739 4.57963739 4.57963739 4.57963739 4.55978103 4.568491016 4.56781033 4.559344666 4.554534376 4.554534376 4.554534376 4.554534376 4.554534376 4.554534378 4.54158433476 4.55453478 4.54158433478 4.54158433478 4.541584344669 4.5314778 4.55543478 4.53147	4.557312 60 4.695245 06 4.7709635 06 4.7709635 06 4.7709635 06 4.7709635 06 4.7709635 06 5.770635 06 5.770760 5.770760 5.770760 5.770760 5.770760 5.770760 5.770760 5.770760 5.770760 5.770760 5.770760 5.770760 5.770760 6.770760	0.00158184 0.000158184 0.000159647 0.000159647 0.00016919 0.00016919 0.00016919 0.00016919 0.00017567 0.00017567 0.00017567 0.00017567 0.00017567 0.00017567 0.00017567 0.00017567 0.00017567 0.00018756 0.00018756 0.00018756
CLTO-669 TLCDI PHYPT1 LON2 TIPP11 TRIBLI PHWX APOE TH1 TRIBLI PHWX APOE TH1 TRIBLI PHWX APOE TH1 TRIBLI PHWX APOE TH1 TRIBLI PLOS TH4	555.0111307 265.24127 265.24127 412.4601 14.6705831, 283.6524023 597.579117 1628.14300 56.5240237 1980.47468 1630.935681 1609.03479 254838.726, 2606.2635 275.4093039 22910.8911 12741.72414 2379.584451 2226.260107 326.7576483 2796.612455 18.2443388 2796.612455 18.2443388 2796.612455 18.2443388 2796.612455 18.2443388 2796.612455 18.2443388 2796.612455 18.2443388 2796.612455 18.2443388 2796.612455 18.2443388 2796.612455 18.2443388 2796.612455 18.2443388 2796.612455 18.2443388 2796.612455 18.2443388 2796.612455 18.24433888 2796.612455 18.24433888 2796.612455 18.24433888 2796.612455 18.24433888 2796.612455 18.24433888 2796.612455 18.2433888 2796.612455 18.2433888 2796.612455 18.2433888 2796.612455 18.2433888 2796.612455 2796.7913877 2797.791377 2797.791377	0.861967426 1.5839853 0.613758215 0.68429218 3.029530748 0.83430607 1.2623702 0.504107315 2.681341923 0.45306611 0.837751355 0.272266013 1.272266013 1.272266013 1.272266013 1.272366013 1.272366013 1.272366013 1.272366013 1.272366013 1.2723650310 0.52363611 1.2723653933 0.957936846 0.523653933 0.723797151 1.131055301 1.2741053 1.131055301 1.2741053 1.15934578 1.1594478 1.15	0.155557169 0.182786207) 0.346075629 0.13417232 0.149785165 0.66329905 0.134778311 0.275504385 0.11060987 0.059846077 0.059846077 0.059846077 0.134107333 0.13735852	4.58419713 4.58027036 4.577963739 4.57963739 4.57963739 4.57963730 4.57963730 4.57963730 4.56781033 4.563914666 4.564256790 4.55778633 4.55433466 4.552802873 4.552802873 4.55433466 4.552802873 4.54128433 4.54128433 4.54128433 4.54128433 4.54128433 4.54128433 4.54128443 4.5412843 4.5412	4.557318 G6 4.64375 G7 4.64375 G7 4.71708 G7 4.71708 G7 4.71708 G7 4.71708 G7 4.71708 G7 4.71708 G7 5.0118 G7 6.0118 G7 6.018 G7 6.018 G7 6.018 G7 6.018 G7 6.018 G7 6	0.0015838 0.00015818 0.00015818 0.00015804 0.00015804 0.00015904 0.00015904 0.00015904 0.00015802 0.00015802 0.00015802 0.00015802 0.00017587 0.00017587 0.00017587 0.00017587 0.00017587 0.00017587 0.00017587 0.00017587 0.00017587 0.0001887 0.0001887 0.0001887 0.0001887 0.0001887 0.0001887 0.00018898 0.00018988 0.00019988

XCL2	7.364410798	-2.314858342	0.514244227	-4.501476579	6.7483E-06	0.000214421
MED18	592.9378045	0.597586353	0.132775167	4.500738847	6.77177E-06	0.000214797
MSANTD2 PPCDC	606.0812034 671.9630502	-0.54892741 0.883638954	0.121998672 0.196416376	-4.499453983 4.498804909	6.81282E-06 6.83365E-06	0.000215728 0.000216016
RAN BP17	136.3095943	-1.054623541	0.234509928	-4.497138139	6.88742E-06	0.000217343
ZN F563 AN KRD33	170.5551968 18.35322591	0.702892321 2.759075554	0.156329821 0.613986063	4.496213945 4.493710394	6.91741E-06 6.99928E-06	0.000217916 0.000220119
IL11	135.3357258	1.857882608	0.413685174	4.491054371	7.08715E-06	0.00022011
SLC10A3	850.6850501	0.722444526	0.160962202	4.4882868	7.17982E-06	0.000223508
DU SP23 C8orf58	1540.39454 601.4646793	0.906276369 0.52586393	0.201917192 0.117158828	4.488356633 4.488470393	7.17747E-06 7.17364E-06	0.000223508
AIU BA	401.7185473	1.318370739	0.293721365	4.488508141	7.17237E-06	0.000223508
SLC16A6 OVCA2	390.9193821 1546.595992	1.069073498 0.76091805	0.238118744 0.169636093	4.48966545 4.485590508	7.13351E-06 7.27123E-06	0.000223508
MARK3	3802.279045	-0.291983369	0.065106699	-4.484690125	7.302E-06	0.000226546
VPS33A DMTF1	1538.628955 3766.359057	0.28656753 -0.654703864	0.063929167 0.146109661	4.482578846 -4.480907426	7.37464E-06 7.43263E-06	0.000228415
WFDC2	307.3221674	0.964150086	0.215311899	4.477922916	7.53728E-06	0.000232671
SCART1 TP53INP2	254.5163393 38983.27437	-1.211523018 -1.121942231	0.270694858 0.250729725	-4.475604111 -4.47470769	7.61956E-06 7.65159E-06	0.000234817 0.000235411
DSP	382.2237508	1.443476677	0.322706836	4.473027883	7.71197E-06	0.000236086
TM2D2 RARS	2276.244054 1725.063838	0.463997789 0.561203096	0.103728141	4.473210288 4.473635393	7.70539E-06 7.69008E-06	0.000236086
BIRC7	435.6748564	1.800079085	0.40261366	4.47098363	7.78607E-06	0.00023678
TNIP1 LAGE3	5508.394215 2027.369868	0.690746094 0.804052059	0.154486519 0.179811328	4.471238648 4.471642967	7.77679E-06 7.76209E-06	0.000236781
CNFN	73.75362819	1.262368217	0.282280426	4.472035957	7.74784E-06	0.000236781
ST6G ALN AC4 ZN RD1	1010.886308 691.2197732	0.519730354 0.767210406	0.116303299 0.171712661	4.468749885 4.467989722	7.86781E-06 7.89581E-06	0.000238873
PES1	4210.428442	0.806038154	0.180556548	4.464186767	8.03734E-06	0.000243219
N ABP1 ARL 14	1541.933725	1.213486974	0.271873154	4.463430664	8.06577E-06	0.000243679
MBOAT7	6.748096691 4398.216523	3.303838884 0.701454173	0.74044512 0.157600543	4.461963209 4.450836029	8.12122E-06 8.55366E-06	0.000244952 0.000257574
MRPS2	2058.104349	0.621205925	0.139664208 0.239253971	4.447853422	8.67327E-06 8.66808E-06	0.000260325
MICA FOLR3	591.509264 27.53160425	1.064197371 2.104590957	0.239253971 0.473294003	4.447982055 4.446688405	8.66808E-06 8.72042E-06	0.000260325 0.000261315
CLP1	447.2972964	0.788252061	0.177343051	4.444786844	8.79791E-06	0.000262353
CD2BP2 ASG R1	5802.519375 282.5817138	0.529949722 0.983059941	0.119229011 0.221167746	4.444805137 4.444861242	8.79716E-06 8.79486E-06	0.000262357
LMAN 2	6041.590005	0.738638416	0.166297563	4.44166712	8.92646E-06	0.00026576
TP53RK SELP	1065.45709 41.65306654	0.534678406 2.250595608	0.120458557 0.507225931	4.438691763 4.437067328	9.05073E-06 9.11928E-06	0.000269026
AGTRAP	3072.39291	0.966168956	0.217774388	4.436559158	9.14082E-06	0.00027083
MRM3 TJAP1	609.0120951 4750.177198	0.622264505 -0.655264376	0.140295928 0.147794902	4.435371116 -4.43360608	9.19138E-06 9.26699E-06	0.000271891 0.00027325
LRPAP1	8389.806505	0.823784042	0.185802668	4.433650227	9.26509E-06	0.00027325
KLHDC8B RPP25L	1358.70126 968.5280373	0.646585553 0.808487061	0.145893189 0.182463906	4.431910469 4.430942417	9.34018E-06 9.38221E-06	0.000274968 0.000275765
RBMX2	1108.560875	0.65271763	0.147380716	4.428785859	9.47651E-06	0.000278093
PIP	46.96977142 3.718161883	1.332768091 4.779430997	0.301125832 1.080371056	4.425950718 4.423879156	9.60184E-06 9.69443E-06	0.000281323 0.000283585
GGCT	1571.151501	0.592360203	0.133915496	4.423388051	9.7165E-06	0.00028378
ADCK1 PUS3	835.281995 420.0407076	-0.516417906 0.505192311	0.116773074 0.114253734	-4.422405685 4.42167001	9.7608E-06 9.7941E-06	0.000284623 0.000284693
KLHL34 MAN 2A1	31.89777445 4106.624503	1.251587958 -0.972782122	0.283052486 0.220044061	4.421752221 -4.420851527	9.79037E-06 9.83127E-06	0.000284693 0.000285324
GTF3C6	3047.597648	0.698049742	0.157927445	4.420056084	9.86707E-06	0.000285912
MTFP1 CLEC4D	498.9278195 20.77242139	0.957436079 2.833229386	0.216702484 0.641556134	4.418205367 4.416183144	9.95238E-06 1.00459E-05	0.000287932 0.000290182
SLC16A3	3760.233784	1.169579872	0.264880987	4.415491974	1.00781E-05	0.000290182
W DR74 AG RP	2019.706377 20.54729371	0.842844366 1.559042648	0.190901196 0.353144967	4.415081649 4.414738408	1.00972E-05 1.01132E-05	0.000290752 0.000290759
LGALS1	23125.03687	1.095064411	0.248136478	4.413153681	1.01876E-05	0.00029244
N DU FAF8 RAI G APA2	3363.071649 1284.720715	0.895003434 -0.553455258	0.202838633 0.125501952	4.412391365 -4.409933461	1.02235E-05 1.03402E-05	0.000293016
NBPF11	917.7046495	-0.599998246	0.136057694	-4.40988103	1.03427E-05	0.000295056
SMCO3 ATOX1	4.69154191 5696.108213	3.121442214 1.113806505	0.707770744 0.252599919	4.410244756 4.409370004	1.03254E-05 1.03672E-05	0.000295056
PIM1	1565.145793	0.87395043	0.19833025	4.40654126	1.05034E-05	0.000297339
CLIC1 MRTO4	9900.04867 1852.7032	1.092580155	0.247943855 0.121418208	4.406562751 4.406632646	1.05024E-05 1.0499E-05	0.000297339
FAM32A	3738.95826	0.479943701	0.108913465	4.406651645	1.04981E-05	0.000297339
SPAG 17 NHLH2	65.31951404 212.1941709	-1.569335026 1.417804038	0.356254421 0.321838752	-4.405096288 4.405324191	1.05737E-05 1.05626E-05	0.000297955
SMAGP	109.8242154	1.013231202	0.229989346	4.405557121	1.05512E-05	
RDH14 ELOF1	813.9403872 3136.351593	0.369994193 0.671959691	0.084050493			0.000297955
C1QTNF12	77 06902822		0.152672766	4.402046653 4.401306856	1.07234E-05 1.07601E-05	
APO A1 U BE2J2		1.24621926	0.283352874	4.402046653 4.401306856 4.398117597	1.07601E-05 1.09194E-05	0.000301714 0.000302283 0.000306293
	77.06902822 38.87327847 2724.916524	1.24621926 1.187329491		4.401306856	1.07601E-05	0.000301714 0.000302283
CHKA	38.87327847 2724.916524 3522.81051	1.24621926 1.187329491 0.548086064 -0.515692626	0.283352874 0.270042232 0.12466539 0.117329739	4.401306856 4.398117597 4.396828898 4.396457309 -4.395242253	1.07601E-05 1.09194E-05 1.09844E-05 1.10032E-05 1.10649E-05	0.00301714 0.000302283 0.000306293 0.000307646 0.000307706
CHKA GPR157	38.87327847 2724.916524 3522.81051 175.6205586	1.24621926 1.187329491 0.548086064 -0.515692626 1.010065171	0.283352874 0.270042232 0.12466539 0.117329739 0.229794455	4.401306856 4.398117597 4.396828898 4.396457309 -4.395242253 4.395515867	1.07601E-05 1.09194E-05 1.09844E-05 1.10032E-05 1.10649E-05 1.1051E-05	0.000301714 0.000302283 0.000306293 0.000307644 0.000307706 0.000308496
CHKA GPR157 SARS COA7	38.87327847 2724.916524 3522.81051 175.6205586 9048.317982 975.615893	1.24621926 1.187329491 0.548086064 -0.51696266 1.010065171 0.553482685 0.376343843	0.283352874 0.270042232 0.12466539 0.117329739 0.229794455 0.125981105 0.085661096	4.401306856 4.398117597 4.396828898 4.396457309 4.395242523 4.395312567 4.393378546 4.39340465	1.07601E-05 1.09194E-05 1.09344E-05 1.10032E-05 1.10649E-05 1.1051E-05 1.11603E-05 1.11589E-05	0.00301714 0.00030228: 0.000306291 0.000307764 0.000307704 0.000308494 0.000308492 0.000310212
CHKA G PR157 SARS	38.87327847 2724.916524 3522.81051 175.6205586 9048.317982	1.24621926 1.187329491 0.548086064 -0.515692626 1.010065171 0.553482685	0.283352874 0.270042232 0.12466539 0.117329739 0.229794455 0.125981105	4.401306856 4.398117597 4.396828898 4.396457309 -4.395242253 4.395515867 4.393378546	1.07601E-05 1.09194E-05 1.09844E-05 1.10032E-05 1.10649E-05 1.1051E-05 1.11603E-05	0.00030171 ¹ 0.00030228 ² 0.00030629 ² 0.000307644 0.000307706 0.000308496 0.000301021 ²
CHKA G PR157 SARS COA7 VEG FD SLG35C1 PPP4C	38.87327847 2774.916524 3522.81051 175.6205586 9048.317962 975.615893 54.56974971 1114.813088 3974.336544	1.24621926 1.187329491 0.548086064 -0.515692625 1.010065171 0.553482685 0.376343843 -0.99289075 0.631227139 0.702398266	0.283352874 0.270042232 0.12466539 0.117329733 0.229794455 0.125981105 0.085661096 0.22616803 0.14381762 0.160055714	4.401306856 4.396117977 4.396228988 4.39542730 4.39542253 4.395532253 4.395532854 4.393378546 4.39340465 4.393078499 4.388461042	1.07601E-05 1.09194E-05 1.09364E-05 1.10634E-05 1.10634E-05 1.10634E-05 1.11503E-05 1.11503E-05 1.11532E-05 1.11532E-05 1.11532E-05 1.11532E-05 1.11532E-05	0.0031071/ 0.0031071/ 0.0031073/ 0.003107440 0.003107440 0.00310849 0.00310317 0.00310317 0.0031544
CHKA G PR157 SARS COA7 VEG FD SLC35C1	38.87327847 2724.916524 3522.81061 1175.6205586 9048.317982 975.615893 54.56974971 1114.813098 3974.335544 612.0091649	1.24621976 1.187329431 0.548080064 -0.515692626 1.010065717 0.553482485 0.376348240 0.99280075 0.63122713 0.702398266 1.139974779	0.28352874 0.27004223 0.12466539 0.117329739 0.229794655 0.125981105 0.085661096 0.226168803 0.14381762 0.160055714 0.259804498	4.401306856 4.398117507 4.39682898 4.396427309 4.395242253 4.395515867 4.393378546 4.393404465 4.39002291 4.389078499	1.07601E-05 1.0994E-05 1.0994E-05 1.10984E-05 1.10032E-05 1.10032E-05 1.110032E-05 1.110032E-05 1.110032E-05 1.110032E-05 1.113832E-05 1.113832E-05 1.113832E-05 1.11383E-05 1.11404E-05	0.0031071: 0.0031072: 0.0031072: 0.00310764: 0.00310764: 0.00310764: 0.00310764: 0.0031071: 0.0031071: 0.00311634: 0.00311634: 0.00311634: 0.00311634:
CHKA G PR157 SARS COA7 VEGFD S1.C3SC1 PPP4C CD40 NABZ FDCSP	38.87327847 2774.916524 3522.81051 175.620586 904.3.17925 375.61589 54.567877 1114.81309 3974.336544 612.009169 1527.696274 31.6860167	1.24621976 1.187329401 0.548080064 -0.515692676 1.010065717 0.553432685 0.376343843 -0.99289075 0.631277139 0.702389266 1.139974779 0.735712981	0.28352874 0.27004223 0.12466539 0.117329739 0.2297944553 0.129981105 0.085661096 0.226168830 0.138317692 0.160055714 0.259804498 0.167786934 1.302100186	4.40190856. 4.39811797 4.39623898 4.396427309 4.395242253 4.39523286 4.393378264 4.393378264 4.393404465 4.39004291 4.389078499 4.38847719 4.38847719 4.38852253	1.0760165 1.09844E.05 1.09844E.05 1.09844E.05 1.10932E.05 1.10932E.05 1.10932E.05 1.1051E.05 1.11569E.05 1.11569E.05 1.11569E.05 1.11599E.05 1.11599E.	0.0031071/ 0.0031072/ 0.00310754 0.00310754 0.00310764 0.0031071/ 0.0031849 0.00311021 0.00311021 0.00311541 0.00311541 0.00311541
CHKA G PR157 SARS COA7 VEGFD SLG3SC1 PPPAC CD40 NA82	38.87327847 2724916524 3522.81051 175.6205586 9048.317882 975.615959 54.56974971 1114.813098 3974.336544 612.0091649 1527.696274	1.24621976 1.18732940] 0.548086054 -0.515892626 1.010065171 0.553422685 0.375434283 -0.9928075 0.631227139 0.702398266 1.139974773	0.283352878 0.27004223 0.1246539 0.117329739 0.229794455 0.125981105 0.085661098 0.256168803 0.143837692 0.160055714 0.259804408 0.167786934	4.401306856 4.398117979 4.396028898 4.396457309 4.395242233 4.39551867 4.393378546 4.393378546 4.393078499 4.388651022 4.387817719 4.384604977	1.07601E-05. 1.09394E-05. 1.09394E-05. 1.10032E-05. 1.10032E-05. 1.1003E-05. 1.1103E-05. 1.11538E-05. 1.11538E-05. 1.11538E-05. 1.14158E-05. 1.14158E-05. 1.14158E-05. 1.14158E-05. 1.1415E-05.	0.0001071: 0.0001072: 0.0001072: 0.0001072: 0.0001074: 0.0001074: 0.0001071: 0.0001071: 0.00011071: 0.00011071: 0.00011071: 0.00011071: 0.00011071: 0.00011071: 0.00011071: 0.00011071:
OKA GPR157 SMS COA7 WEGFD COM PPPAC CDM RABQ FDCSP GOSR2 APEH AREGAP1	38.87327847 2774.916524 3722.81051 175.6205366 9048.317982 975.615893 54.56978971 1114.813009 3974.335544 612.0091639 1527.696274 311.68901647 3131.979358 3651.064632 77808.843250	1.24621976 1.187329491 0.548080064 -0.515692676 1.0100065717 0.553432685 0.376343843 -0.99228077 0.631277139 0.702398266 1.139974779 0.738712981 5.70792864 0.261104324 0.48853477 -0.470972956	0.28352874 0.27004223 0.12466539 0.117329739 0.2297944553 0.129981105 0.085661096 0.226168830 0.1438317692 0.160055714 0.259804488 0.167786934 1.302100186 0.0596101412 0.111577209	4.40190585. 4.39811797 4.396628898 4.39643709 4.39524225 4.39515867 4.393378364 4.39404465 4.39404465 4.39617719 4.3865707 4.3865707 4.3865707 4.3865707 4.3865707 4.3865707 4.3865707 4.3865707 4.3865707 4.3865707 4.3865707 4.3865707 4.3865707 4.3865707 4.3865707	1.0760145 0 1.093445 05 1.093445 05 1.10327 05 1.10327 05 1.115327 05 1.115327 05 1.115327 05 1.113327 05	0.0031071/ 0.0031071/ 0.0031075/ 0.0031075/ 0.0031076/ 0.0031071/ 0.00311071/ 0.00311071/ 0.00311071/ 0.0031158/ 0.0031158/ 0.0031158/ 0.0031158/ 0.0031158/ 0.0031158/ 0.0031158/ 0.0031158/ 0.0031158/ 0.0031158/ 0.0031158/
OKA GPR157 SMS COA7 WEG FD SICSSC1 PPPAC CD40 N AB2 PCSP FCSP GOSR2 APEH APEH BMP2	38.87327847 2774.916520 3822.81051 175.620536 9043.317932 975.615893 975.615893 3973.315646 612.0091649 1327.696273 31.48801647 31.3157.696273 3786.841259 385.9672184	1.24621976 1.18732940] 0.548080064 -0.515962265 1.010065171 0.553482685 0.376348342 0.9928075 0.631227139 0.702388266 1.139974779 0.735712681 5.707928866 0.261104324 0.48804377 0.48804377 0.478972955 1.038270567	0.28352874 0.27004223 0.12466539 0.11732979 0.127948105 0.085661092 0.12598105 0.145817697 0.160055714 0.159994488 0.167786934 1.302100182 0.1157776934 0.115777693	4.401306856 4.38811797 4.39628888 4.39628888 4.39624720 4.39524225 4.39531856 4.393378546 4.393378546 4.39304291 4.38678499 4.386817719 4.38682633 4.38682633 4.38904291 4.387817719 4.3868263 4.387817710 4.3868263 4.37942126 4.37942126 4.37942126	1.07601E-05 1.09194E-05 1.09194E-05 1.10032E-05 1.10049E-05 1.10049E-05 1.11032E-05 1.11032E-05 1.11332E-05 1.11332E-05 1.14450E-05 1.1607E-05	0.00010171: 0.00010172: 0.00010172: 0.00010172: 0.00010770 0.00010770 0.00010710 0.00010
OKA GPR157 SARS COA7 WEGFD SICESC1 PPP4C CDI0 NAB2 FDCSP GOSR2 APEH AREGAP1 BMP2 GLUP DD82	38.87327847 2774,916524 3322,81051 175,6205365 9048,317982 375,615893 54,56974971 1114,813006 33974,336544 612,0091645 1527,696073 3114,93938 3651,6481437 318,9481437 318,9481437 318,9481437 318,9481437 318,9481437 318,9481437 318,9481437 318,9481437 318,9481437 318,9481437	1.24621926 1.18732940] 0.548086064 -0.51590226 1.010055171 0.553482565 0.37634384] 0.9928075 0.651272139 0.753712981 5.707928564 0.261104124 0.48863471 0.48863471 0.478972956 1.0382450676 0.86104526	0.28352874 0.27004223 0.12466539 0.11732779 0.229794455 0.125981105 0.085661006 0.226168803 0.143817602 0.160055718 0.0596610112 0.115778093 0.0596610112 0.115777000 0.07577915 0.234887878 0.196540000 0.07577915	4.401306856 4.38811797 4.386628888 4.396457309 4.396528888 4.39645898 4.395515867 4.339378364 4.339378364 4.339074291 4.38007429 4.386451022 4.387817710 4.38465047 4.380178902 4.37720040 4.37720040 4.37720040 4.37720040 4.37720040 4.37720040 4.37720040 4.37720040 4.37720040 4.37720040	1.076016.50 1.09844E.05 1.09844E.05 1.10982E.05 1.10032E.05 1.110032E.05 1.110032E.05 1.110032E.05 1.110032E.05 1.110032E.05 1.110032E.05 1.11332E.05 1.11332E.05 1.11332E.05 1.11332E.05 1.114094E.05 1.116072E.05 1.116032E.05 1.116032E.05 1.119032E.05	0.0031071/ 0.0031072/ 0.0031075/ 0.0031076/ 0.0031076/ 0.0031071/ 0.0031021/ 0.0031021/ 0.0031021/ 0.0031158/ 0.003158/
OKA GPRIS7 SMS COA7 WGGFD SLCSSCI PPP4C CDI0 NAB2 FUSSP GOSR2 APEH AP6AP1 BMP2 GLMP	38.87327847 2774.916527 2774.916527 372.21051 175.620586 9048.315982 975.615893 54.59798771 1114.813088 3974.336546 612.0091648 1527.696274 31.46901647 31.46901647 31.88.843258 3651.964622 7388.843258 3651.964622 2819.053934	1.24621976 1.18732940] 0.548086064 0.515692626 1.01006517] 0.553482685 0.37633482685 0.37633482685 1.029280075 0.631227133 0.702388265 1.119974265 1.025108526 0.261085265 0.479927955 1.0282350567 0.48863477 0.479972956	0.28352874 0.27004223 0.12466539 0.117329739 0.229794455 0.129981105 0.085651098 0.226168803 0.148317692 0.1500575746 0.2590610412 0.111577209 0.037573915 0.234687878 0.195548005	4.401308526 4.398117907 4.396623898 4.396427309 4.395542253 4.395542253 4.395342264 4.3933404465 4.3933404465 4.393404465 4.386450427 4.386450427 4.386450427 4.386450427 4.387637700 4.387637700 4.37702000 4.37702000 4.37702000 4.37702000	1.076016 5 1.09344 05 1.09344 05 1.10032 05 1.10032 05 1.116094 05 1.11899 05 1.11899 05 1.11896 05 1.11896 05 1.14956 05 1.16916 05 1.16916 05 1.16916 05 1.16917 05 1.16918 05 1.188818 05 1.19817 05 1.19817 05 1.19817 05 1.19817 05	0.0031071/ 0.0031072/ 0.0031075/ 0.0031076/ 0.0031076/ 0.0031071/ 0.0031021/ 0.0031021/ 0.0031021/ 0.0031158/ 0.003158/
GHA GPRIS7 SMG GPRIS7 SMG COA7 WEGFD SICISCI PP90C COXIO NAB2 PCSP GOSR2 APEH BMP2 GLMP GMR2 NRBP2 NRBP2 NRBP2 NRBP2 NRBP2 NRBP3 NRBP4 ACOSR48A3	38.87327847 2774,916524 3722,81051 175,6205586 9048,317932 975,615893 54,56974971 1114,813009 3974,316544 612,0091649 1527,66677 311,6801647 3111,979358 3651,064827 7388,684278 395,9672184 2811,033124 2046,3491,49 10433,52111 311,07959209 286,8031324	1.24621926 1.18732940] 0.548086064 -0.515902262 1.010065171 0.553402685 0.375438431 0.9928075 0.631227139 0.702398266 1.139974779 0.735712981 5.707238266 0.2611027139 0.48893477 0.470972955 1.028250567 0.800482066 0.913992376 0.7082348211 1.355180211	0.283352874 0.27004223 0.12466539 0.117327979 0.12797455 0.12797410 0.085561096 0.2246188003 0.1438117602 0.160055714 0.159801438 0.16776033 1.302100186 0.059610412 0.11557700 0.1075774 0.11557700 0.1075774 0.115577500 0.10757415 0.234887878 0.1956543005 0.208811947 0.115157700 0.208811947	4.401306856 4.38811797 4.386628888 4.38643793 4.389628888 4.389624295 4.389534265 4.38907499 4.38861042 4.38907499 4.38861042 4.38907499 4.38863022 4.379732040 4.379732020 4.379732040	1.076016.50 1.093446.05 1.093446.05 1.103276.55 1.1103276.55 1.115397.05 1.115397.05 1.1133276.05 1.1133276.05 1.143946.05 1.143946.05 1.160976.05 1.160976.05 1.1938176.05	0.00010171: 0.00010172: 0.00010172: 0.00010172: 0.00010172: 0.000101770 0.000101710 0.0001
OKA GPRIS7 SMS COA7 VEGFD SKISSCI PPPGC CDD0 NAB2 FCSSP GOSR2 APEH ARMS AP1 BMP2 GLMP DD82 KONNA	38.87327847 2724.916529 3722.81051 175.6205588 9048.317962 975.615893 54.56974977 1114.813098 3974.336544 612.0091649 1327.696274 31.46901647 313.979138 3651.064632 738.6.843758 395.9971284 2819.035914 1043.31311 311.0795959 286.813124 483.0315726	1.24621976 1.187379491 0.548080505 -0.515592626 -0.515592626 1.010065171 0.5554362685 0.375438248 0.97289275 0.63122713 0.702398265 1.139974779 0.735712981 5.707928864 0.261104324 0.4886447 -0.470927955 0.860482066 0.913992376 0.860482066 0.913992376 0.7062246261 1.3551893212 0.254488646 1.107868421	0.28352874 0.27004223 0.12466539 0.117329736 0.229794453 0.125981105 0.085661092 0.143817692 0.160055714 0.259804489 0.167786934 1.302100188 0.059610412 0.111577200 0.10757915 0.238687878 0.196543005 0.208811947 0.161855055 0.309934392 0.211573592	4.401308526 4.396137307 4.396623808 4.396437300 4.395342253 4.395342253 4.395342253 4.395342455 4.3933404465 4.393404465 4.38645022 4.38645022 4.387637703 4.38954702 4.37762060 4.377622692 4.377622692 4.377622692 4.377622692 4.377622692 4.377622692 4.377622692 4.377622692 4.377622692 4.377622692 4.377622692 4.377622692 4.377622692 4.3776265408 4.377627692 4.377627692	1.07601E 0: 1.0984E 0: 1.0984E 0: 1.1093E 0:	0.0003171/ 0.00030273/ 0.000306291 0.000376440 0.00037640 0.000316491 0.000316491 0.00031641
OKA GPRIS7 SMS COA7 WIGFD SICISCI PPPAC CDIO NAB2 FOSP GOSR2 APEH APEH BMF2 GLMP COB2 WINNA ACD8484.3 SPL BRF3 ERS1	38.87327847 2774,916524 3322,81051 175,6205586 9048,317932 975,615893 54,56974971 1114,813009 33974,316546 612,0091465 1527,66677 3114,979358 3651,64652 7386,843258 3651,64652 7386,843258 395,9672184 2819,0335211 311,0795930 286,803132 483,032576 483,032576 483,032576 483,032576 18692,3072 1051,757175	1.24621926 1.18732940] 0.548086064 -0.515962265 1.010065171 0.553462685 0.37543482685 0.37543482685 0.376343841 0.9928075 0.631227139 0.702380266 1.139974779 0.735712881 5.707928666 0.265104324 0.488543771 0.479972955 1.028250567 0.860482066 0.913992376 0.708234621 1.1078489614 1.1078489614 1.1078489614 1.1078489614 1.1078489614	0.28352874 0.27004223 0.12466539 0.11739793 0.225794455 0.135981105 0.085661092 0.145817692 0.160055714 0.159801408 0.167786933 0.167786933 0.167786933 0.167786935 0.059610412 0.111577209 0.10757915 0.234887878 0.19654300 0.208811947 0.19654300 0.208811947 0.19654300 0.208811947 0.19654300 0.208811947 0.19654300 0.208811947 0.19654300 0.208811947	4.401306856 4.38811797 4.396628888 4.39643703 4.39524253 4.39524253 4.39534564 4.39404465 4.39404465 4.39404465 4.39504291 4.38851022 4.38737179 4.38451022 4.37752204 4.37752204 4.37752204 4.37752204 4.37752046 4.37752046 4.37752046 4.37752046 4.37752046 4.37752046 4.37504666 4.375046666 4.36658666 4.375046666 4.36658666 4.37508666 4.36658666 4.36658666 4.36658666 4.36658666 4.36658666 4.36658666 4.36658666 4.36658666 4.36658666 4.36658666 4.36658666 4.36658666 4.36658666 4.36658666 4.36658666 4.366586666 4.366586666 4.3665866666 4.366586666666666666666666666666666666666	1.0790145 05 1.09844E 05 1.09844E 05 1.10984E 05 1.10982E 05 1.11093E 05 1.11093E 05 1.11595E 05	0.00010171: 0.0001072: 0.0001072: 0.00010770 0.0001070 0
OKA GPR157 SMS COA7 VEGFO SICISCI DPP8C COMD NAB2 FOCSP GOSR2 APEH APERAPI BMP2 KONN4 ACD9884-3 SPH RR 136	38.87327847 2774.916527 2774.916527 372.21051 175.6205386 9048.3752 975.615893 54.56978977 1114.813088 3974.336546 612.0091648 1527.696274 31.46501647 313.910164632 7386.842758 365.671867 2810.053934 206.49131 311.0769500 286.80313774 483.0325726 483.0325726 483.0325726 483.0325726 386.80313702 316.913702 316.913702 316.913702 316.913702 316.913702 316.913702 316.913702 316.913702 316.913702 316.913702 316.913702 316.913702 316.913702 316.913702 316.913702 316.913702 316.913702 316.913702 316.913702	1.24621976 1.187379491 0.548086054 -0.515892626 1.010065171 0.553482685 0.375438438 -0.9928075 0.631227139 0.702398256 1.139974779 0.735712981 5.707928856 0.261104326 0.261104326 0.261104326 0.360480506 0.3755712981 1.355189321 0.356486427 0.356486427 0.360486421 1.355189321 0.9244806462 1.107848642 0.88824773 0.988248736	0.28352874 0.27004223 0.1246539 0.117329739 0.2279794455 0.127981105 0.085651098 0.256568803 0.1438317692 0.160057714 0.159804493 0.159772693 0.107579315 0.1348587878 0.1965410025 0.11577209 0.107579315 0.238487878 0.1965410025 0.208811947 0.161855055 0.309993495 0.2153730807 0.205841093	4.40130852 4.398117907 4.396628898 4.396427309 4.395512867 4.395512867 4.395512867 4.393578245 4.39507819 4.386451042 4.386451042 4.386451042 4.386451042 4.386451042 4.37793704 4.386451042 4.37793704 4.37793705 4.37793705 4.37793705 4.37793705 4.37793705 4.3779373715 4.377937375 4.377937375 4.377937375 4.377937375 4.377937375 4.377937375 4.377937375 4.377937375 4.377937375 4.377937375 4.377937375 4.37993794 4.386433367 4.386433367 4.386433367 4.386433367 4.386433367 4.386433367 4.386433367 4.386433685	1.07501E-05 1.0934E-05 1.0934E-05 1.10032E-05 1.110032E-05 1.110032E-05 1.11589E-05 1.1158	0.0001071: 0.0001071: 0.0001072: 0.0001072: 0.0001072: 0.0001072: 0.0001072: 0.0001072: 0.00011072: 0.
OKA GPR157 SMS COA7 VEG FD SLCSCI PPPAC CDM0 NAB2 FCSP GOSR2 APEH APEG AP1 BM72 GLMP CDM2 NRMP2 NRMP2 NRMP2 NRMP2 NRMP2 NRMP3 NCNNA SPN RM 36 BM 35 POLD BM 36 BM 32 BM 36 BM 36 BM 36 BM 36	38.87327847 2724.916520 372.281051 175.6205588 9048.317962 975.615893 54.56978971 1114.813088 3974.316544 612.00016163 1527.666274 331.48501647 331.979525 3651.064637 2788.584255 268.97188 2819.05394 2046.435121 311.0795950 288.8031224 483.03125726 483.03125726 3605.821897 3005.821897 3005.821897 3005.821897 3005.821897 3005.821897 3005.821897 3005.821897	1.24621976 1.18732940] 0.548080004 0.515802265 1.010065171 0.553402685 0.376343841 0.9928075 0.631227139 0.702388266 1.139974779 0.735712881 5.707928865 0.26104324 0.48804377 0.470927956 1.03292756 0.860482060 0.913992376 0.708234621 1.335189312 0.708234621 1.375488621 0.98927953 0.98927953 0.98927953 0.98927953 0.98927953	0.28352874 0.27004223 0.12466539 0.11732973 0.127964539 0.127964539 0.085661092 0.085661092 0.163837602 0.163837602 0.163837602 0.163837602 0.163837602 0.163837602 0.163837602 0.163837602 0.163837602 0.163837602 0.163837602 0.163837602 0.163837602 0.28831847 0.16385005 0.208831847 0.16385005 0.208831847 0.16385005 0.208831847 0.16385005 0.208831847 0.16387602	4.40130852 4.39617307 4.39627300 4.39627300 4.39524223 4.395515867 4.393378246 4.393404465 4.393404465 4.393404465 4.393404665 4.393404665 4.393404665 4.393404665 4.393404665 4.39340465 4.393782066 4.393782176 4.393782176 4.377920906 4.377920906 4.377920906 4.377920906 4.377920906 4.377920906 4.377920906 4.377920906 4.377920906 4.37934076 4.381369414 4.381269987	1.07601E 0.5 1.0934E 0.5 1.0934E 0.5 1.10032E 0.5 1.110032E 0.5 1.110032E 0.5 1.1159F 0.6 1.1159F 0.6 1.1159F 0.6 1.1159F 0.6 1.1159F 0.6 1.1159F 0.6 1.1459E 0.6 1.1459E 0.6 1.169F 0.6 1.	0.0001071: 0.0001072: 0.0001072: 0.0001074:
OMA GPRIST SMS COAT WGG PD SLCSSCI PPPAC CURD NAB2 FDCSP GOSR2 APEH APEH APER APER	38.87327847 2774.916524 3722.81051 175.620586 9043.317925 375.615893 54.45678277 1114.813079 3974.316544 612.0091649 1527.696272 311.6801647 3313.979385 3651.064632 7386.843258 305.9572188 2819.053934 2046.49165 10433.5111 10433.5111 10433.5111 10433.5111 10433.5111 10433.5111 10433.5111 10433.5111 10433.5111 10433.5111 10433.5111 1051.757179 13605.21607 13605.36023	1.24621926 1.187329401 0.548086064 -0.51590226 1.010065171 0.555462268 0.376343841 0.9928075 0.631272130 0.702396271 0.735712981 0.735712981 0.7457129	0.28352874 0.27004223 0.12466539 0.117329739 0.1279745105 0.055651050 0.2556168003 0.143812602 0.143812602 0.160055713 0.157986913 0.1677789913 0.107789913 0.107789913 0.11577700 0.107779915 0.11577700 0.107779915 0.11577000 0.107779915 0.11577500 0.208813947 0.11517500 0.208813947 0.11517500 0.208813947 0.11517500 0.208813947 0.11517500 0.208813947 0.11517500 0.208813947 0.11517500 0.208813947 0.11517500 0.208813947 0.208813947 0.208813947 0.208841394	4.40106585 4.3811797 4.386628888 4.396437090 4.39524225 4.395315867 4.393378264 4.393515867 4.39301291 4.38074290 4.38461042 4.387817719 4.38461042 4.37762056	1.076016.5 1.098446.05 1.098446.05 1.109826.5 1.105126.5 1.1150316.05	0.00031271 0.00030228 0.0003629 0.0003628 0.0003628 0.0003628 0.0003629 0.0003629 0.0003629 0.0003629 0.0003629 0.0003629 0.0003629 0.0003629 0.0003629 0.0003629 0.0003629
OKA GPRIS7 SMS COA7 VEGFD SNSS COA7 VEGFD NAB2 FDSSP GOSB2 APEH APEGAP1 BMF2 GLMP COB2 LAPEH APEGAP1 BMF2 GLMP LAPEH APEGAP1 BMF2 COB4 COB4 LAPEH APEGAP1 BMF2 COB4 COB4 LAPEH APEGAP1 BMF2 COB4 LAPEH APEGAP1 LAPEH	38.87327847 2724.916529 3722.81051 175.6205388 9048.317962 975.615893 945.615893 954.31962 975.615893 3974.336544 612.00916462 311.00916462 313.1979358 3651.064623 738.8843258 328.9672184 2819.053934 206.49143 311.0799090	1.24621976 1.18732940] 0.548080504 0.515802626 1.010065171 0.553482685 0.37634832685 0.376348314 0.99280075 0.65122713 0.702389260 1.139974779 0.735712981 5.707928854 0.26853477 0.48853477 0.48853477 0.4702325566 0.5132713902176 0.586482056 0.5139392276 0.586482056 0.5139392276 0.586482056 0.5139392276 0.586546731 0.7082246271 0.2888292733 0.74489645 1.1078486421 0.888292733 0.746704515 0.9565964053 0.9565964053 0.9565964053 0.9565964053	0.28352874 0.27004223 0.12466539 0.117329736 0.227974453 0.127938100 0.085661099 0.26166803 0.148387692 0.160055714 0.157786934 0.1677786934 0.1677786934 0.1677786934 0.1677796934 0.167779793 0.107577913 0.1081859059 0.208410139 0.208410139 0.208410139 0.208410139 0.208410139 0.208410139 0.208410139 0.208410139 0.208410139 0.208410139 0.208410139 0.208410139	4.401308526 4.398117907 4.396628898 4.396427309 4.395512867 4.395512867 4.393578264 4.393512866 4.3933040465 4.393040465 4.393078409 4.386451042 4.386451042 4.386451042 4.386451042 4.38763731 4.3865263 4.37703066 4.37703763 4.37503763 4.37503764 4.37503764 4.37504	1.07601E-05 1.0984E-05 1.0984E-05 1.10032E-05 1.10032E-05 1.11603E-05 1.11603E-05 1.11859E-05 1.11859E	0.0001071: 0.0001071: 0.0001072:
OKA OPILST OPILST SMS COAT WEGFD SICESCI PPOCC CDIO NAB2 FDCSP GOSR2 APEH APEH APEH APER APER APER APER BMP2 GLMP CDR2 NABP2 KNN4 ROS8484.3 SPN BR3.36 NISSI POLDA BW2 UNABL UNABL BW2 UNABL UNABL BW2 UNABL U	38.87327847 2774,916524 3722,81051 175,6205366 9048,317982 975,615893 54,5679771 1114,813709 3974,335544 612,0091649 1527,696274 311,6801647 3313,1979358 3651,06482,7786,843258 395,9627284 2819,053934 2046,49149 10433,51211 3311,0769509 286,8031324 483,032577 1860,33623 1051,757175 3065,8721076 788,1001631 1392,268055 322,0662777	1.24621926 1.18732940] 0.548086054 -0.51590226 1.010065171 0.553462685 0.37543843 0.9928075 0.631227139 0.70338265 1.019974779 0.735712881 5.707238265 0.2611287139 0.48853077 0.470972955 1.028250507 0.800482050 0.9139237 0.708234621 1.078485626 1.1078485621 1.078485626 1.1078485626 1.1078485626 1.1078485626 1.1078485627 0.555546753 0.740740515 0.9555946753 0.9555946753 0.9555946753 0.9555946753	0.28352874 0.27004223 0.12466539 0.11732793 0.12797415 0.125981105 0.085561059 0.224618800] 0.143817602 0.160055714 0.159804438 0.16778073 0.10718073 0.10718073 0.10718073 0.10718073 0.107578073 0.1	4.401906855 4.38811797 4.386628888 4.396457309 4.396528888 4.39645809 4.395515867 4.393787846 4.393978406 4.39404465, 4.39501809 4.38461042 4.38671719 4.38461042 4.387817719 4.38469407 4.387872040 4.37762059 4.3862059	1.0790145 05 1.098445 05 1.098445 05 1.109825 05 1.109825 05 1.1109825 05 1.110982 05 1.115987 05 1.11	0.0031071/ 0.0031071/ 0.0031071/ 0.0031071/ 0.0031071/ 0.0031071/ 0.0031071/ 0.0031071/ 0.0031158/ 0.003158/ 0.
OKA GPRIS7 SMS COA7 VEGFD SNSS COA7 VEGFD NAB2 FDSSP GOSR2 APEH APEGAP1 BMP2 GLMP DDR2 KONNA ACOBABAL3 SPN RR136 BR31 POLDS HeM BR31 POLDS LAFN WDRS4 CCCC191 HeM CCCC191	38.87327847 2774.916527 2774.916527 372.21051 175.620586 9048.315982 978.515893 978.315893 978.315893 978.336546 612.0091648 1527.696274 31.46501647 31.46501647 31.31597 31.46501647 31.31597 31.46501647 31.31597 31.46501647 31.31597 31.46501647 31.31597 31.46501647 31.31597 31.46501647 31.515934 206.31597 31.075930 206.30137 31.075930 206.30137 31.075930 206.30137 31.075930 206.30137 31.075930 206.30137 31.075930 206.30137 20.30137	1.24621976 1.18737940] 0.548080054 -0.515892626 -0.515892626 1.01006577 0.555482688 0.376348384 -0.9928075 0.63122713 0.702388266 1.139974779 0.735712981 0.702388266 1.139974779 0.735712981 0.735712981 0.74582472 0.48863477 0.4709279556 1.0328292733 0.740782556 1.137648427 0.588623736 0.58863746 0.58863746 0.58863746 0.58863746 0.58863746 0.58863746 0.58863746	0.28352874 0.27004223 0.12466539 0.117329736 0.1273973453 0.1273981105 0.085661092 0.143817692 0.163817692 0.163817692 0.163817692 0.163817692 0.167786934 1.302100188 0.059610412 0.111577209 0.10757915 0.23887878 0.196534092 0.208541038 0.208541038 0.208771202 0.253730807 0.208541038 0.189771202 0.2737391007 0.221441176 0.57393776 0.11891157	4.40130852 4.39811797 4.38628898 4.39647309 4.39551367 4.39531253 4.395372253 4.395372253 4.395372253 4.395372253 4.39507291 4.386451042 4.386451042 4.38762752 4.37702006 4.37762252 4.37702006 4.37762252 4.37702006 4.37752752 4.37702006 4.37752752 4.37702006 4.37752752 4.37702006 4.37752752 4.37702006 4.37752752 4.37702006 4.37702006 4.37702006 4.37702006 4.37702006 4.37702006 4.37702006 4.37702006 4.37702006 4.37702006 4.37702006 4.37702006 4.37702006 4.37702006 4.37702006 4.37702006 4.37702006 4.37702006 4.358203031 4.3548036 4.3548036 4.3548036 4.3548036 4.3548066 4.35480613 4.3548066 4.3548066 4.3548066 4.3548066 4.3548066 4.3548066 4.3548066 4.3548066 4.3548066 4.3548066 4.3548066 4.3548066 4.35480666 4.35480666 4.354806666 4.35480666666666666666666666666666666666666	1.07501E-05 1.07501E-05 1.0984E-05 1.10032E-05 1.10032E-05 1.115032E-05	0.0003171/ 0.0003171/ 0.000306299 0.000306391 0.000306491 0.00031641
OKA GPR157 SMS COA7 WEGFD SICSSC1 PPP0C CDM0 NAB2 FDSP GOSR2 APEH APEH APEH APCH BM2 GLMP COX2 NRB2 FDSP GLMP COX2 NRB2 FDSP GLMP G	38.87327847 2774.916529 372.281051 175.6305388 9048.317962 975.615693 54.569749771 1114.813098 3974.155643 612.0001649 1527.666274 331.48501647 331.979388 3651.064632 2788.584238 2819.053934 2819.053934 2819.053934 2819.053935 2819.053935 2819.053935 2819.053935 2819.053935 2819.053935 2819.053935 2819.053935 2819.05395 2819.053	1.24621976 1.18732940] 0.548086064 0.515962265 1.010065171 0.553462685 0.37543482685 0.37543482685 0.37543482685 0.37543482685 0.37543482685 0.37543482685 0.37543482685 0.37543482685 0.37543482685 0.37543482685 0.37543482685 0.37543482685 0.37543482685 0.37543482685 0.37543482685 0.3754348864865 0.375448864865 0.375448864865 0.375448864865 0.375448864865 0.37544866666666666666666666666666666666666	0.28352874 0.27004223 0.12466539 0.11739719 0.229794155 0.125981105 0.085661092 0.125981105 0.145817607 0.16005714 0.259804489 0.167786934 0.1677786934 0.1077786934 0.1077786934 0.10777915 0.234827877 0.106543007 0.208811947 0.106543007 0.208811947 0.106543007 0.208811947 0.106593007 0.208811947 0.106593007 0.208811947 0.106593007 0.208811947 0.106593007 0.208811947 0.106593007 0.208811947 0.106593007 0.208811947 0.106593007 0.208811947 0.208811947 0.208811947 0.208811947 0.208811947 0.208811947 0.208811947 0.208811947 0.208811947 0.208811947 0.208811947 0.208811947	4.401906855 4.38811797 4.396628888 4.39643793 4.396528888 4.39643695 4.395242253 4.395515867 4.393078405 4.39504791 4.38907879 4.38861042 4.387817719 4.38461042 4.387817719 4.38461042 4.37762275 4.37762004 4.37762205 4.37762005 4.3	1.07601E-0.5 1.0984E-0.5 1.0984E-0.5 1.10032E-0.5 1.110032E-0.5 1.110032E-0.5 1.11559E-0.5 1.11593E-0.5 1.115	0.00010171: 0.0001072: 0.0001072: 0.0001072: 0.0001074: 0.00010770 0.00010849 0.00031021: 0.00011074:
OKA GPRIST SMS COAT VEGFD SMS SMS SMS MARQ FDSSP GOSR2 APEH APMG API BMP2 GILIP COR2 KCNN4 ACOSMAN ACOSMAN RP. 36 BMS.1 POLDM HEM BMS.1 POLDM HEM BMS.2 PAHGL LAYN LAYN MURS4 CCCC191 METTLTB HEMS METTLTB	38.87327847 2774.916524 372.21051 175.6205386 9048.315253 978.315839 978.316584 612.0091649 1127.696274 31.46801647 311.979363 3651.064632 738.6842758 365.064632 738.6842758 365.064632 120.064634 120.064644 120.064644 120.064644 12	1.24621926 1.187329401 0.548086064 -0.51590226 1.010005171 0.553482685 0.376348341 0.9928075 0.611277139 0.753712981 0.76379728564 0.261104326 0.48854577 0.4707928564 0.913992376 0.768234621 0.88954073 0.768234621 0.913992376 0.768234621 0.913992376 0.768234621 0.913992376 0.768234621 0.913992376 0.91399392376 0.91399392376 0.91399392376 0.91399392376 0.91399392376	0.28352874 0.27004223 0.12466539 0.11732739 0.127904555 0.125981105 0.085661006 0.26168803 0.167786933 1.302101386 0.059610412 0.11577873 0.105655716 0.23887876 0.10778933 0.10778933 0.10778933 0.10778933 0.10778933 0.10778933 0.10778933 0.10778933 0.10778933 0.10778933 0.10778933 0.10778933 0.10779313 0.10779313 0.10779313 0.10779313 0.10779313 0.10779313 0.10779313 0.10779313 0.10779313 0.10779313 0.10779313 0.10779313 0.10779313 0.10779313 0.10779313 0.10779313 0.10779313	4.40190852 4.39811797 4.3862888 4.39643730 4.39652898 4.396535867 4.393378364 4.393378364 4.393378364 4.393378364 4.393378364 4.393378364 4.39337836 4.39378364 4.39378364 4.39378364 4.39378364 4.39378376 4.39378364 4.39378376 4.39378376 4.39378376 4.39378376 4.39378376 4.39378376 4.3938366 4.393866 4.393876 4.393866 4.393866 4.393866 4.3938666 4.333886666 4.333886666 4.33388666666666666666666666666666666666	1.076016.5 1.076016.5 1.076016.5 1.08846.05 1.10032.05 1.10032.05 1.110032.05	0.00031714 0.00031724
ORA GPR157 SMS CO A7 WEGFD SICSSC1 PPP4C CDR0 NAB2 FCSSP GOSR2 APEH APES APEI BMS APEI BMS APEI BMS APEI BMS APEI BMS APEI APEN APEI BMS APEI BMS APEI APEN APEI BMS	38.87327847 2724.916529 2724.916529 3725.281051 175.6305588 9048.317962 975.615893 54.56978771 1114.813098 3974.336544 612.0091662 311.6691674 31.1691674 31.1691674 31.1691674 31.1691674 31.1799525 365.1064627 3786.84373 311.0799599 278.863124 278.863124 278.863124 288.3012576 388.312576 388.312576 388.312576 388.312576 388.312576 388.312576 388.312576 398.312577	1.24621976 1.18732940] 0.548086064 0.515692265 1.010065171 0.555482685 0.376438431 0.9928075 0.631227139 0.70238266 1.139974779 0.735712881 0.76214624 0.48804377 0.470972955 1.03220567 0.860482064 0.913992276 0.708234621 1.355189312 0.708234621 0.8980377 0.470972955 1.032250567 0.804082064 0.913992276 0.708234621 0.989594033 0.708234621 0.989594033 0.989594033 2.524469646 0.98323751069 0.989594033 2.52446799 0.48800746 0.8823751069 0.9859504033 2.52446799 0.48800746 0.9823751069 0.9823751069 0.9823751069 0.9823751069 0.9823751069 0.9823751069 0.9823751069 0.9823751069 0.9823751069 0.9823751069 0.9823751069 0.9823751069 0.9823751069 0.9823751069 0.9823751069 0.9823751069 0.9823751069 0.9823751069	0.28352874 0.27004223 0.12466539 0.11732973 0.127964539 0.127964539 0.127968105 0.085661092 0.12598106 0.163817607 0.16005714 0.259904498 0.167786930 0.167786930 0.167786930 0.167786930 0.107787915 0.234687872 0.196653400 0.25461789 0.106779120 0.205379139 0.205381097	4.40130852 4.39617307 4.39623898 4.39617307 4.39623898 4.39617309 4.39531253 4.39537253 4.39537253 4.39537253 4.39537253 4.3957253 4.3957253 4.3957253 4.3957253 4.37720262 4.37	1.07601E-05 1.0984E-05 1.0984E-05 1.10932E-05 1.10932E-05 1.116032E-05 1.116032E-05 1.116032E-05 1.11839E-05	0.00310714 0.00301724 0.00306731 0.0030760 0.0030760 0.0030760 0.0030760 0.00310715 0.00310715 0.00310715 0.00310715 0.00310715 0.00310715 0.00310715 0.00310715 0.00310715 0.00310715 0.0031582

GUCY2D	19.78418529	1.576953216	0.363571831	4.337391073	1.44184E-05	0.000381777
MAB21L1	58.70829307	1.390003455	0.320634344	4.335167089	1.45649E-05	0.000385104
ADO RAZA	376.7410974	1.202609945	0.2774529	4.334465224	1.46115E-05	0.000385781
VAMP8 NINJ1	3968.568765 7583.676144	1.367388928	0.315509487	4.333907488 4.333210319	1.46486E-05 1.46951E-05	0.000386207
S100A10	14607.80748	1.159496073	0.267654449	4.332063515	1.47718E-05	0.000388345
SLC25A3	11930.41903	0.3523714	0.081402119	4.328774298	1.49942E-05	0.000393628
ELMO1	4728.188891	-0.855482058	0.197738895	-4.326321619	1.5162E-05	0.000396904
MLEC	7592.689959	0.373366021	0.086294794	4.32663438	1.51405E-05	0.000396904
SF3B5	4649.463026	0.750320433	0.173478887	4.325139778	1.52435E-05	0.000398472
AICDA	14.99596187	1.068812133	0.247214635	4.323417724	1.5363E-05	0.000401028
AC008763.3	81.12877922	4.454555237	1.03072334	4.321775848	1.54778E-05	0.000403453
RAB13	5152.07327	0.72773718	0.168432378	4.320648977	1.55571E-05	0.000404946
MLPH	178.689543	1.377238942	0.318870685	4.319114321	1.56657E-05	0.000407197
PDE8A	3483.843218	-0.837631912	0.193955869	-4.318672671	1.5697E-05	0.000407438
SRP68	3256.489653	0.369900718	0.085660508	4.318217683	1.57294E-05	0.000407704
	3985.127307	1.03676262	0.240242185	4.315489478	1.5925E-05	0.000412193
ZNF708	1224.79428	-0.928932223	0.215303739	-4.314519702	1.5995E-05	0.000413425
GM2A	10745.35599	0.87162876	0.202116738	4.312501619	1.61418E-05	0.000416634
FAM110A	376.3399794	1.054780198	0.244741399	4.309774321	1.63421E-05	0.000421215
TXLNA	4297.281732	0.615282459	0.142793438	4.308898706	1.64069E-05	
ADRM1	5843.651837	0.733139382	0.170143413	4.308949544	1.64032E-05	0.000421707
RAD51B	197.9324531	-0.766199875	0.177903864	-4.306819762	1.65618E-05	
POLRIC	790.5529691	0.515229537	0.119637331	4.306595063	1.65787E-05	0.000424345
DDK41	3960.793537	0.476364926	0.110607126	4.306819496	1.65619E-05	
FDX1 EMP3	1045.457694 5409.679941	0.571121542	0.132652935	4.305381866	1.66698E-05	0.000426085
NCLN	4022.06168	1.212050631 0.59590442	0.281575813 0.138453069	4.304526785 4.304017427	1.67728E-05	0.000427534
MUL1	2046.547497	0.488505383	0.113646332	4.298470317	1.71981E-05	0.000437767
CG B7	21.61560451	2.504362854	0.582745103	4.29752707	1.72714E-05	0.000439028
IMP3	2463.714774	0.485990037	0.113105531	4.296784003	1.73294E-05	0.000439894
TFAP2C	65.98976446	1.340932767	0.312174738	4.295455733	1.74335E-05	0.000441928
AN APC13	2786.073853	0.430042708	0.100127665	4.294943931	1.74737E-05	0.00044234
PATL2	121.5782857	-0.997332533	0.232394286	-4.291553585	1.77427E-05	0.000447701
B9D2	277.4296148	0.670911418	0.156340133	4.291357598	1.77584E-05	0.000447701
HCCS	700.9370443	0.560451848	0.130591806	4.291631026	1.77365E-05	
C5AR1	2103.191476 15.00711501	1.410984883	0.329101609	4.287383731	1.8079E-05	0.000455161
TRIML2 TYSN D1	869.2378856	1.461840478 0.734295622	0.341098789 0.171327093	4.285680642 4.285928216	1.82181E-05 1.81978E-05	0.000457412
UGGT2	796.8918903	-0.475524946	0.110971076	-4.28512514	1.82636E-05	0.000457933
PDRG1	1401.772583	0.539056924	0.125846828	4.283436736	1.84028E-05	0.000460796
STXBP2	2045.635904	1.063842573	0.248429833	4.282265778	1.85E-05	0.000461348
CCDC51	797.5330093	0.773485296	0.180620367	4.282381386	1.84904E-05	0.000461348
TMU B1	2860.725842	0.750340459	0.175212422	4.282461529	1.84837E-05	0.000461348
ISG 20	1180.422673	1.208960933	0.282702062	4.276448931	1.89898E-05	0.000472923
BCAP31	8891.951839	0.588551198	0.13767043	4.27507343	1.91074E-05	0.00047521
C16orf89	1837.57609	0.962295401	0.225193512	4.273193268	1.92693E-05	0.000478591
ARSA	5350.190841	0.854071278	0.199888004	4.272749051	1.93078E-05	0.0004789
MRPL17	1827.526237	0.72602979	0.169947236	4.272089435	1.9365E-05	0.000479674
PAN 2 DNTTIP2	2629.673827	-0.60675278	0.142192696	-4.267116359	1.98016E-05	0.00048983
ATP6AP1	2233.375094	0.358522478	0.084025952	4.266806507	1.98291E-05	0.000489853
	10254.46201	0.43375967	0.101700339	4.265075943	1.99834E-05	0.000493005
PSMG 3	1699.655608	0.733223404	0.171929557	4.264673362	2.00195E-05	0.000493234
IFITMB	27511.47922	1.06369783	0.249591254	4.261759234	2.02824E-05	0.000499044
MICAL3	7026.844246	-0.660181788	0.154974214	-4.259946046	2.04476E-05	0.000502439
MRPL12	2798.780607	0.756274658	0.177573122	4.258947811	2.05391E-05	0.000504016
CO ASY	2932.370244	0.452044982	0.106174618	4.257561656	2.06669E-05	0.000505803
CLECSA	732.8004918	1.50521916	0.353530581	4.257677385	2.06562E-05	0.000505803
RIMBP3C	207.4867623	1.985945369	0.466644263	4.255801532	2.08301E-05	0.000509123
GADD45G IP1	5202.188301	0.941017227	0.221184495	4.254444805	2.09568E-05	0.000510864
ICAM2	1128.207356	1.065953637	0.250536278	4.254687762	2.09341E-05	0.000510864
VPS52	3504.009167	-0.299159534	0.070370827	-4.251186872	2.12641E-05	0.000516513
PI4K2A	2389.708297	0.50391712	0.118546366	4.250801912	2.13006E-05	0.000516513
MYL12B	11373.70716	0.679428055	0.159824444	4.251089734	2.12733E-05	0.000516513
GNLY	399.3985676	1.46979921 1.180370801	0.34570802	4.251562371	2.12284E-05	0.000516513
H2AFJ CARD16	2532.801316 771.8997144	1.266643037	0.277817831 0.298107523	4.248722252 4.248946908 -4.247360887	2.14993E-05 2.14778E-05	0.000519962 0.000519962 0.000522445
RALG DS APRT	13522.62907 2920.634918	-0.395491373 0.770906253	0.093114615 0.181515206	4.247061562	2.16303E-05 2.16592E-05	0.000522458
SAT2	4941.9961	0.726724092	0.171252239	4.243588843	2.19973E-05	0.00052992
ARHG AP24	649.3635852	-0.93799139	0.221222775	-4.240030855	2.23489E-05	0.000537687
MARCO	781.1545798	2.154328112	0.508180573	4.239296476	2.24221E-05	0.000538745
CD63	44785.70511	0.903290083	0.21309766	4.238855003	2.24663E-05	0.000539103
CD86	704.4551079	1.594713566	0.376420042	4.236526718	2.27004E-05	0.000544012
TDP2	2213.441279	0.508920513	0.120151671	4.23565074	2.27891E-05	0.000545428
LSM10	1981.852804	0.522664	0.123426959	4.234601624	2.28957E-05	0.00054727
CDHR4	25.19468387	-2.370711474	0.559966077	-4.233669809	2.29908E-05	0.000548442
FAH UBD	1655.765382	0.659623829	0.155809094 0.490810426	4.233538686	2.30043E-05	0.000548442
MRPL23	1791.920208 2416.389798	2.076805444 1.056380687	0.249715234	4.23138005 4.230341372	2.32262E-05 2.33337E-05	0.000553017 0.000554145
PPID	1346.122124	0.33837031	0.079982714	4.230542997	2.33128E-05	0.000554145
CD79A	37.23555489	1.583719565	0.374542572	4.228410028	2.35349E-05	0.000558203
BRK1	6741.896087	0.386545584	0.091422811	4.228108695	2.35664E-05	0.000558233
B3G ALT6	2107.148721	0.629910411	0.14901914	4.227043655	2.36782E-05	0.000560163
FST	228.6620542	1.68734687	0.399484949	4.223805861	2.40211E-05	0.00056533
MRPS24	2721.845501	0.657499805	0.155662616	4.223877397	2.40135E-05	0.00056533
TMEM115	3166.319172	0.640913233	0.151735607	4.223881557	2.4013E-05	0.00056533
LYPD3	77.11453572	1.324007278	0.313407842	4.224550577	2.39418E-05	0.00056533
DDX5	25529.20168	-0.394834654	0.093510987	-4.222334363	2.41785E-05	0.000568345
GPAT4	5063.172034	0.450889656	0.106812523	4.221318272	2.42878E-05	0.00057015
FAAP20 PXK	4012.206519 4676.675517	0.791888609	0.187756157 0.221387582	4.217643885 -4.21703872	2.46868E-05 2.47531E-05	0.000578821
ARPC4 SLC22A18AS	9204.237324	0.567851889	0.134682557 0.330445058	4.216224425 4.216466415	2.48427E-05 2.4816E-05	0.000579526
NDUFS5	41.7956089 8022.224836	1.393310491 0.719973548	0.170749861	4.216539579	2.4808E-05	0.000579526
PPAN	1469.912077	0.715874775	0.169888968	4.213780239	2.51132E-05	0.000585095
CRACR2B	574.6072469	1.036779127	0.246092309	4.212968417	2.52036E-05	0.000586462
HSPA4	5301.680584	0.260811126	0.061934538	4.211077299	2.54156E-05	0.000590648
DEN N D3	3189.488199	-0.61134414	0.145203956	-4.210244397	2.55095E-05	0.000592083
SOCS1	291.4549316	1.372631304	0.326153785	4.208540168	2.57026E-05	0.000595815
GNB2	12844.60019	0.629861212	0.149679918	4.208054232	2.57579E-05	0.000596347
SEN P7	871.5866196	-0.799237453	0.190051145	-4.205380887	2.60643E-05	0.000602208
SLC39A2	16.86210572	1.645970089	0.39140597	4.205275892	2.60764E-05	0.000602208
ALG1	1451.334829	0.513677803	0.122185852	4.204069431	2.62158E-05	0.000604673
MOB3A	3321.124985	0.647251884	0.153999499	4.202947982	2.63461E-05	0.000606916
ITPA	2409.551913	0.640633435	0.152449363	4.202270328	2.64251E-05	0.000607976
SIG LECS	191.129143	1.585497849	0.377412279	4.200970494	2.65773E-05	0.000610715
MCAT	789.5983148	0.652294544	0.155283458	4.200669867	2.66126E-05	0.000610765
MRPL27	2804.954547	0.811825215	0.193285768	4.200129289	2.66763E-05	0.000611464
RIPK2	899.0533077	0.710355798	0.16920074	4.198301966	2.68924E-05	0.000615652
TTC32	428.1296147	-0.484263462	0.115434222	-4.195146418	2.72695E-05	0.000623512
VAT1	9761.795526	0.712967097	0.169996885	4.194000961	2.74077E-05	0.000625119
RAB34	2518.171326	0.564018892	0.134477573	4.194148355	2.73899E-05	0.000625119
GPR3	247.8877747	1.131231934	0.26976725	4.193362739	2.74849E-05	0.000626106
VMO1	486.2437367	1.229957788	0.293359866	4.192658679	2.75704E-05	0.000627278
IRAK1	7208.95574	0.539533885	0.128711024	4.191823433	2.76721E-05	0.000628816
mPN1	/208.95574	U.539533885	U.128/11024	4.191823433	Z./6/Z1E-05	U.UUU628816

	1595.50377	0.615695263	0.146951118	4.189796385	2.79205E-05	0.000632899
DU SP3	5972.40664	0.501025434	0.119576903	4.189985044	2.78973E-05	0.000632899
BRMS1 C11orf98	2748.40185 2271.046499	0.848258004 0.823209424	0.202499161 0.196556809	4.188945769 4.188150116	2.80253E-05 2.81237E-05	0.000634495 0.000635942
RAB32	1245.294185	1.006342072	0.240365567	4.186714782	2.83021E-05	0.000639191
TACO1 RNF25	1158.215378 1777.596521	0.553742719 0.581188739	0.1323098 0.138860445	4.185198071 4.185416065	2.84918E-05 2.84644E-05	0.0006419 0.0006419
RRP9	1187.782584	0.710738311	0.169927774	4.182590617	2.88206E-05	0.000648516
POGZ	4353.800652	-0.572815519	0.136985158	-4.181588199	2.8948E-05	0.000650588
KDM4C EIF4E2	1022.951452 2735.092133	-0.596662433 0.282138092	0.14271323 0.067518254	-4.180848772 4.178693529	2.90423E-05 2.93188E-05	0.000651913 0.00065732
MRPS16	2786.553516	0.416851467	0.099775146	4.177908878	2.94201E-05	0.00065879
IKBIP C5AR2	862.3345479 349.137954	1.035039756 0.977614615	0.247888673 0.234164786	4.175421743 4.174900218	2.97434E-05 2.98117E-05	0.000665221 0.000665938
AATK	17624.14497	-0.959667751	0.229884783	-4.174559702	2.98563E-05	0.000666128
HMOX1 ZFYVE1	10602.26637 1552.458922	1.325827086 0.308000068	0.31771215 0.07384609	4.173044956 4.170837873	3.00556E-05 3.03482E-05	0.000669763 0.000675467
RRP36	1686.202603	0.497549262	0.119306509	4.170344669	3.04139E-05	0.000676114
NTSDC1 PG RMC2	1951.239351 2490.314406	-0.69676471 0.32011407	0.167090797 0.076774536	-4.169976577 4.169534399	3.04631E-05 3.05223E-05	0.000676391 0.000676889
GRWD1	1570.067388	0.567641885	0.13618203	4.168258365	3.06936E-05	0.00067987
SAR1A AKR1DI	4562.170557 10.81417221	0.346394772	0.083110767 0.501121154	4.167868786 4.16635846	3.07461E-05 3.09504E-05	0.000680216 0.000683915
CEMIP	10.8141/221	-1.043943605	0.501121154	4.16635846 -4.166003346	3.09504E-05 3.09986E-05	0.000683915
CDC26	867.980282	0.554872398	0.133251542	4.164097375	3.12587E-05	0.000689074
RPL36AL FFAR2	6941.313163 42.35413393	0.765918541 1.507121698	0.183977632 0.36207881	4.163106856 4.162413419	3.13946E-05 3.14902E-05	0.000691245 0.00069252
RABSIF	3198.391631	0.642473701	0.154363284	4.16208885	3.1535E-05	0.000692679
MRPS10 FAM71F2	1410.204535 284 740648	0.337339791 -0.676627758	0.081070123	4.161086476 -4.160184606	3.16737E-05 3.1799E-05	0.000694899
PSMB3	5438.457519	0.794164399	0.190942941	4.159171299	3.19404E-05	0.000699086
CSF2RB CA3	653.99511 720.6862354	1.326830897 -2.09410222	0.319081683 0.503702828	4.158279732 -4.157416043	3.20653E-05 3.21868E-05	0.000700987 0.000702808
GPSM2	2474.039669	-0.746883817	0.503702828	-4.15/416043 -4.156454406	3.23225E-05	0.000702808
TORIA	2109.294614	0.50176909	0.120844125 0.475678566	4.152200941	3.29293E-05 3.2976E-05	0.000717321
MMP10 MRG BP	27.7697041 968.5611207	1.97495882 0.479076142	0.475678566 0.115398414	4.151876837 4.151496765	3.2976E-05 3.30308E-05	0.00071749 0.000717835
CREB3	3060.25086	0.471372508	0.113582955	4.150028558	3.32434E-05	0.000720756
PRKD2 SNAI1	1337.915654 294.9961408	0.631644601 0.971817506	0.152201913 0.234190407	4.150043775 4.149689637	3.32412E-05 3.32926E-05	0.000720756 0.000720975
HMG A1	5996.978265	0.968284973	0.233392846	4.148734594	3.34318E-05	0.000722292
APO C1 ALDH1B1	24459.16064 926.090358	1.473520521 0.73759066	0.355161374 0.177816538	4.148876062 4.148043078	3.34112E-05 3.35329E-05	0.000722292 0.000722782
DDK54	3127.542722	0.591918575	0.142692024	4.148224666	3.35064E-05	0.000722782
PXDNL LENG9	48.19707377 262.2203554	-1.237626427 0.711790892	0.298606216 0.171821634	-4.144677369 4.142615078	3.40292E-05 3.43368E-05	0.000732623 0.000738381
CXCL2	472.3709174	1.496718024	0.361543167	4.139804488	3.47602E-05	0.000746615
ZNF652 CITED4	2648.626208 1301.411748	-0.657566916 1.158687501	0.158909106 0.279997955	-4.138006508 4.138199866	3.50336E-05 3.50041E-05	0.000750738 0.000750738
DN MBP	704.689204	0.559563063	0.279997933	4.137592708	3.50969E-05	0.00075122
RPP30	905.1090165	0.325790439	0.078766058	4.136178055	3.53138E-05	0.000754987
SPN S1 ACP2	2801.622407 3262.958816	0.584194961 0.586489768	0.141361002 0.141912694	4.132645868 4.132750566	3.58611E-05 3.58448E-05	0.000764912 0.000764912
S100A16	7953.293671	0.941240537	0.227836879	4.131203609	3.60869E-05	0.000768838
PSMG 4 ERG IC3	742.8186359 7563.737938	0.602838519 0.562456089	0.145956533 0.136217915	4.130260603 4.129090421	3.62352E-05 3.64201E-05	0.000771107 0.000774148
CD274	329.6678918	1.258581749	0.304936863	4.127351924	3.66965E-05	0.000779123
EI24 ZBTB47	4993.232655 6127.041602	0.501034484 -0.668142437	0.121427016 0.161944022	4.1262192 -4.125761658	3.68776E-05 3.6951E-05	0.000782068 0.000782724
PSAP	122041.2129	0.687347931	0.166654449	4.124389924	3.71719E-05	0.000783799
L3MBTL2 KRTAP3-1	2183.199501 7.471319944	0.400530257 3.634377111	0.097111577 0.881107811	4.124433674 4.124781401	3.71648E-05 3.71087E-05	0.000783799 0.000783799
SLAMF9	39.56248106	1.673814169	0.405782412	4.124905667	3.70887E-05	0.000783799
FCGR3B APOC4	243.446769 44.20257675	1.613489236 1.945923914	0.391317959 0.471919534	4.123217961 4.123423114	3.73616E-05 3.73283E-05	0.00078421 0.00078421
LAMB2	9183.615791	0.724560601	0.175716855	4.123425114	3.73231E-05	0.00078421
U BA52 C12orf49		0.72408052	0.175589569	4.123710337	3.72818E-05	
	23734.88824					0.00078421
BSG	23734.88824 3029.073678 29470.94434	0.426845121 0.649583831	0.103540745 0.157596622	4.122484557 4.121813174	3.74808E-05 3.75902E-05	0.00078421 0.000785817 0.000787216
BSG PSME2	3029.073678 29470.94434 4708.634753	0.426845121 0.649583831 0.902824972	0.103540745 0.157596622 0.219059604	4.122484557 4.121813174 4.121366772	3.74808E-05 3.75902E-05 3.76631E-05	0.000785817 0.000787216 0.000787848
BSG	3029.073678 29470.94434	0.426845121 0.649583831	0.103540745 0.157596622	4.122484557 4.121813174	3.74808E-05 3.75902E-05	0.000785817 0.000787216
BSG PSME2 UBAP1L TOP1MT RPS10-NUDT3	3029.073678 29470.94434 4708.634753 1116.564578 744.6473727 500.2517757	0.426845121 0.649583831 0.902824972 -0.794042773 0.705546057 1.245431768	0.103540745 0.157596622 0.219059604 0.19280729 0.17132306 0.302411637	4.122484557 4.121813174 4.121366772 -4.118323398 4.118220026 4.118332811	3.74808E-05 3.75902E-05 3.76631E-05 3.81639E-05 3.8181E-05 3.81623E-05	0.000785817 0.000787216 0.000787848 0.000795071 0.000795071
BSG PSME2 UBAP1L TOP1MT	3029.073678 29470.94434 4708.634753 1116.564578 744.6473727	0.426845121 0.649583831 0.902824972 -0.794042773 0.705546057	0.103540745 0.157596622 0.219059604 0.19280729 0.17132306	4.122484557 4.121813174 4.121366772 -4.118323398 4.118220026	3.74908E-05 3.75902E-05 3.76631E-05 3.81639E-05 3.8181E-05	0.000785817 0.000787216 0.000787848 0.000795071 0.000795071
BSG PSME2 UBAPIL TOPIMT RPSIO-NUDT3 PSMO3 GARI THAP7	3029.073678 29470.94434 4708.63473 1116.564787 744.6473727 500.251757 5764.383696 661.6271628	0.426845121 0.649583831 0.902824972 -0.794042773 0.705546057 1.245431768 0.529574228 0.675878050 0.607894021	0.103540745 0.157596622 0.219059604 0.19280729 0.17132306 0.302411637 0.12857273 0.164180439 0.147665065	4.122484557 4.121813174 4.121366772 -4.118232388 4.118220026 4.118323811 4.1186696 4.116664617 4.116708462	3.74808-05 3.75902E-05 3.76631E-05 3.81639E-05 3.81639E-05 3.81633E-05 3.80737E-05 3.84395E-05 3.84392E-05	0.000785817 0.000787216 0.000787248 0.000785071 0.000795071 0.000795071 0.000795071 0.000798648
BSG PSME2 UBAPIL TOPIMT RPSIO-N UDT3 PSMD8 G ARI	3029.073678 29470.94434 4708.634753 1116.564578 744.6473727 500.2517577 5764.383696 661.6271628	0.426845121 0.649583831 0.902824972 -0.794042773 0.705546057 1.24543157 0.529574228 0.675875805	0.103540745 0.157596622 0.219059604 0.19280729 0.17132306 0.302411637 0.12857273 0.164180439	4.122484557 4.121813174 4.121366772 4.11832338 4.118220026 4.118332811 4.11866866	3.74808-05 3.75902E-05 3.76631E-05 3.81639E-05 3.81831E-05 3.81632E-05 3.80737E-05 3.84395E-05	0.000785817 0.000787216 0.000787848 0.000795071 0.000795071 0.000795071 0.000795071
RSG PSME2 UBAPIL TOPIMT RSSIDNUUTS PSMD3 GARI THMP7 KEL ACREP LONRES	3029.073678 29470.3443 4778.634773 1116.595477 744.647372 500.2517737 576.133809 661.6271628 2125.451344 366.2862713 240.6112285	0.42684512 0.64958831 0.90224972 -0.795402273 1.265431768 0.52954222 0.675875802 1.086932770 1.01936140 0.99391700	0.103540745 0.137596622 0.219959604 0.19280729 0.17132700 0.302411637 0.1647665065 0.264092422 0.24455316 0.24108859	4.12248457 4.12181377 4.12185772 4.11852798 4.11822005 4.118832811 4.118666417 4.11678842 4.11728911 4.11472891 4.11472891 4.11472891	3.7480E 05. 3.7590E 05. 3.7590E 05. 3.7590E 05. 3.8163E 05. 3.8163E 05. 3.8163E 05. 3.803TE 05. 3.8395E 05.	0.000785817 0.000787216 0.000787248 0.000789707 0.00079507 0.00079507 0.00079507 0.00079507 0.00079507 0.00079507 0.00008009
BSG PSME2 UBAP11 TOP1MT RPS10-NUDT3 PSMC3 G AR1 THMP7 KEL ACRBP	3029.073678 29470.9433 4708.634753 1118.546578 744.6473727 500.251775 5763.38369 661.6271628 2125.461344 366.282713 240.6112249	0.426845121 0.649538313 0.9022828977 -0.79546057 1.245431766 0.525974228 0.675875805 -1.06958932776 1.011936144	0.103540745 0.15759622 0.219959604 0.19280729 0.17123206 0.302411637 0.12857273 0.164180439 0.147650555 0.264092412 0.245945536	4.122484557 4.121813174 4.12181377 4.11827308 4.11827308 4.11833811 4.11858896 4.11670862 4.115728911 4.116778862 4.115728911	3.748086 05 3.75902c 05 3.75902c 05 3.769316 05 3.816396 05 3.816396 05 3.816326 05 3.807376 05 3.843226 05 3.843226 05 3.843226 05 3.835386 05 3.835886 05	0.000785817 0.000787348 0.000787548 0.00078507 0.00079507 0.00079507 0.000798648 0.000798648
ESG PSME2 USAPEL TOPEMS PSME3 PSME3 PSME3 PSME3 PSME3 GARL THEFT PSME3 GARL THEFT PSME3 PS	3029.073678 29470.34434 4708.634773 1116.564576 744.647372 500.2517757 5764.38369 661.6271628 21275.4013144 366.2822713 240.6112240 128.249890 721.2065981 2477.218029 671.8169008	0.426845121 0.64953831 0.902624977 -0.7394042773 0.70554621768 0.525974228 0.525974228 0.658789022 -1.086932776 1.01193691707 0.758218771 0.758218771 0.758218771	0.103540745 0.115756622 0.215905604 0.19280725 0.13280725 0.13712200 0.303411637 0.1647665065 0.264092412 0.244508359 0.191460179 0.18303397 0.184503595	4.12248457 4.12181377 4.12185777 4.11852798 4.11822005 4.118832811 4.118664617 4.116788462 4.11728911 4.11474205 4.11043566 4.11043566 4.11043568 4.11043568 4.11043568 4.11043568 4.11043568 4.11043568 4.11043568	3.7480E 05 3.7590E 05 3.7590E 05 3.7590E 05 3.81619E 05 3.81613E 05 3.81613E 05 3.81613E 05 3.827E 05 3.8395E 05	0.000785817 0.000787818 0.000787948 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795073 0.000795071 0.000795074 0.000795074 0.000800750 0.000804462 0.000812066 0.000812066 0.00081206
BSG PSME2 UBAPEL TOPJIMT RPSIANUUTS PSMC8 GARL THEFF THEFF LONRS SCIE SSCIE TSSC4	3029.073678 29470.3443 4770.6.54773 1116.545737 744.6472727 500.2517757 576.3.83809 661.6271628 2125.451344 366.2882713 240.6112249 128.2949800 721.2085981 2477.218059	0.4568512 0.64958831 0.502828972 0.734042773 0.705546057 1.265431768 0.525954222 0.675875800 1.507894021 1.011936144 0.93931700 0.752137115	0.1035407.5 0.13759622 0.2139059604 0.13280729 0.17132206 0.302411637 0.1285773 0.164180439 0.147855065 0.2540072413 0.243708359 0.191460175 0.18303397	4.12264572 4.1218176 4.12186772 4.11882398 4.118220026 4.118822811 4.11882803 4.116594617 4.115728911 4.11477402 4.117024115 4.11024156 4.11024156 4.11024156	3.74698C 65 3.75631E 65 3.81639C 65 3.81639C 65 3.81637E 65 3.80737E 65 3.80737E 65 3.8395C 65 3.8395C 65 3.8595C 65 3.8595C 65 3.8595C 65 3.8595C 65 3.8595C 65 3.8595C 65 3.8595C 65 3.9217E 65 3.9217E 65 3.9217E 65 3.9217E 65 3.9217E 65 3.9217E 65 3.9217E 65	0.000785817 0.000787216 0.000787216 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795081 0.000796081 0.000806983 0.000806983
RSG PSME2 UDRP1L TOPIMT RP510N UDT3 PSM03 GAR1 THP67 KEL ACRBP SCF D2 TSSCA TSSCA VMS2 VMS2 UDRSCA UDRSCA TSSCA VMS2 UDRSCA UDRSCA VMS2 UDRSCA	3029.073678 29470.34434 4708.634773 1116.564578 744.6473727 500.2517757 5764.383696 661.6271628 21225.451344 366.2822713 240.6112249 128.249890 721.2065981 2477.118025 671.8189098 412.04508361 3.033331774 3.5.09208866	0.426845121 0.64953831 0.902624972 -0.794042773 0.70556421768 0.52954722 0.52954722 0.658784022 1.069932776 1.0119391740 0.9939177 0.75213715 1.348513470 0.488881137 0.488881137 3.634312166 2.716026642	0.103540745 0.115756622 0.215905604 0.19280725 0.17132206 0.303411637 0.12852727 0.164180439 0.146765065 0.264092412 0.24459535 0.244705355 0.191460179 0.18303597 0.138332878 0.119062866 0.885248937 0.6661677873	4.122484577 4.121813177 4.12185777 4.11823788 4.118220026 4.1188332811 4.118566417 4.116708462 4.1197184 4.114718291 4.114718291 4.110473464 4.10713734 4.105400272 4.105400274 4.105400274 4.105400274 4.105400274 4.105400274 4.105400274 4.105400274 4.105400274 4.105400274 4.105400274 4.105400274 4.105400274 4.105400274 4.105400274 4.105400274 4.105400274 4.105400274 4.104756638	3.7480E 05 3.7590E 05 3.7590E 05 3.7590E 05 3.81619E 05 3.81619E 05 3.81613E 05 3.81613E 05 3.827E 05 3.827E 05 3.8395E 05 3.8395E 05 3.8395E 05 4.035E 05 4	0.000785817 0.000787818 0.000787248 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000796088 0.000960862 0.0008142066 0.000814026 0.000814026 0.000814026 0.000814026
85G PSME2 UBAPEL TOPJIMT RPSIANUUT3 PSMC3 GARL THWP7 KEL ACRBP LON NR3 SCFE2 TSSC4 GPRCSA VMS2 KR3QL1	3029.073678 29470.3433 47706.043733 1116.594578 744.647372 500.2517757 5763.38369 661.6271628 2125.451344 366.8282731 240.6112249 1122.294990 721.294990 471.294990 472.294900 472.294900 472.39590 472.39590 472.39590 472.39590 472.39590 472.39590 472.39590 472.39590 472.39590 472.39590 472.39590 472.39590 472.39590 472.39590 472.39590 472.39590 472.39590	0.42684512 0.64958831 0.902824977 0.7950402773 0.70554075 1.245431708 0.525974722 0.678787805 0.607894021 -1.086932776 1.011936144 0.999170 0.78569817 0.7856987	0.103540745 0.137596622 0.2139059604 0.13280729 0.17122306 0.302411637 0.12857273 0.164180439 0.147665065 0.264902412 0.245945536 0.241708855 0.191480139 0.1328312366 0.885248937	4.12264857, 4.1218377 4.12186777 4.11832308 4.11823308 4.11823308 4.118582811 4.118686427 4.115728911 4.11472892 4.11042364 4.107157383 4.107157383 4.107157383 4.107157383 4.10715738	3.74698C 65 3.7592E 65 3.7592E 65 3.81639E 65 3.81639E 65 3.8162 65 3.8037E 65 3.8432E 65 3.8432E 65 3.8432E 65 3.8432E 65 3.8432E 65 3.8432E 65 4.0558E 65 4.0558E 65 4.0359E 65	0.000785817 0.00078716 0.00078704 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795081 0.000795081 0.00081025 0.00081025 0.00081025 0.00081025 0.00081025
RSG PSME2 UDRP1L TOPIMIF RPS10N UDT3 PSM03 GARL THPF7 KEL ACR8P LON MF 3 SCF D2 TSSCA TSSCA TSSCA TSSCA TSSCA TRIA TLIA MF 3	3029.073678 29470.3443 4708.634753 1116.564578 744.6473727 500.2517757 5764.383696 661.6271628 2125.451344 366.282713 240.6112249 128.2948904 771.2059381 2477.218020 671.385909 412.0450867 3.003331776 35.50208866 2807.088947 175.7037025 9.919636773	0.426845121 0.64953831 0.902624977 0.70554607 1.245431768 0.57954222 0.679585020 1.059584022 1.069632776 1.019361140 0.9939170 0.7568647 1.019361470 0.488881157 1.34851470 0.488881157	0.103540745 0.115756622 0.215905604 0.19280725 0.17132206 0.303411637 0.12852727 0.164180439 0.146765065 0.264092412 0.24459835 0.244708855 0.139460179 0.18303597 0.328332858 0.119062266 0.885248937 0.6661677873 0.2039633446 0.423547858	4.122484557 4.121813174 4.121813174 4.12185777 4.118323388 4.118220026 4.118332811 4.118569617 4.116708462] 4.119728911 4.114728911 4.114724216 4.110043364 4.100540277 4.10540027 4.105400	3.7480E 05 3.7590E 05 3.7590E 05 3.7590E 05 3.81619E 05 3.81613E 05 3.81613E 05 3.81613E 05 3.8432E 05 3.8432E 05 3.8432E 05 3.8432E 05 3.8595E 05 4.0525E	0.000785817 0.000787818 0.000787248 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000796088 0.000796088 0.0008084626 0.000812677 0.000812677 0.000812677 0.000831087 0.000831087 0.000831267
RSG PSME2 URRPIL TOPJMT RSSION-UDT3 PSMO3 GARLI THEFT RSSION-UDT3 FSMO3 GARLI THEFT THEFT KEL MCREP LON ##3 SCFGR TSSC4 GPRCSA VMS2 KMRGLI TIER MCREV TIER MCREV TIER MCREV TIER MCREV TIER MCREV TIER MCCV TIER MCCC TI	3029.073678 29470.3435 4770.6.34733 1116.564573 744.6473727 500.2517757 576.3.83809 661.6271628 2125.451344 366.2882731 240.6112249 128.2949900 721.285981 2477.218079 671.816903 412.0450867 3.00238364 220.0508647 17.57037029 9.9196377 2888.023796	0.45685127 0.64958831 0.502824977 0.704042773 0.705546057 1.26431708 0.529574223 0.67894027 1.08693277 1.011936144 0.99931700 0.7869477 0.752197115 1.34851187 0.458861187 1.54312166 2.71605662 1.716576488 2.33715648 2.33715648 2.33715648 2.33715648 2.33715648	0.10354074. 0.1035076. 0.13796622 0.219059604 0.19280729 0.17132306 0.302411637 0.164180439 0.147865065 0.264072412 0.243708395 0.191460175 0.13803597 0.33833286 0.119062466 0.438548937 0.6661677337 0.268574223 0.39053146	4.12264857. 4.1218174 4.12181774 4.118823789 4.11823026 4.11832281 4.11882308 4.116594817 4.115728911 4.11477402 4.117021126 4.10725733 4.10725733 4.10747673 4.10747803 4.10747803 4.10747803 4.10747803 4.10747803 4.10747803 4.10747803 4.10747803 4.10747803	3.74698	0.000785117 0.000787161 0.000787218 0.000787218 0.000787378 0.000785071 0.000785071 0.000785071 0.000785071 0.000785071 0.000785071 0.000785071 0.000785071 0.00081067 0.00081067 0.00081067 0.00081067 0.00081067 0.00081067
RSG PSME2 URAPEL URAPEL TOPIMF RS110N UDT3 PSM03 GARL THUPT KEL ACRBP LOOMPS SCGD2 TSSCG TSSCG KNGCL TSSCG KNGCL TSSCG	302.073-67. 24470-3443 4776.6347-33 1116.545-73 744.64737.77 500.25177-7 576.338069 661.67716.28 2125.451344 366.2827.71 240.51122.99 128.299990 412.085981 2477.218029 671.18029 671.18029 671.285981 2477.218029 671.385981 2477.218029 671.385981 2507.089847 35.0928866 2807.098847 17.79307070 5509.3477 2888.023796	0.45685127 0.64958831 0.902824972 0.79546027 1.26541768 0.529540227 1.26541768 0.529540227 1.01936140 0.93931703 0.76284072 0.75213715 1.34851470 0.48881187 3.53412126 0.83716307 1.73715305 1.7	0.1035407.5 0.13759622 0.219059604 0.19280729 0.1713206 0.302411637 0.1285727 0.16418033 0.147695085 0.264095336 0.244708839 0.191460179 0.18803879 0.28532853 0.191660179 0.28532853 0.19082666 0.885248937 0.6661677872 0.203963346 0.423547636	4.12248457, 4.1218176 4.1181776 4.1181776 4.1181778 4.1181778 4.1181778 4.1181778 4.118178 4.118178 4.118178 4.118178 4.118178 4.118178 4.118178 4.118178 4.118178 4.118178 4.118178 4.118178 4.108178 4.	3.74698: 63 3.759216: 65 3.81639: 65 3.81639: 65 3.81639: 65 3.81639: 65 3.81639: 65 3.8395: 65 4.05526: 65 4.05526: 65 4.05526: 65 4.1	0.00078312 0.00078712 0.000787248 0.000787248 0.000787507 0.00078507 0.00078507 0.00078507 0.00078507 0.00078648 0.00080462 0.00081622 0.00081622 0.000813087 0.000813087 0.000813087 0.000813087 0.000813087 0.000813087 0.000813087 0.000813087 0.000813087 0.000813087
85G P3ME2 UBRP1L TOPIMT RPS10N UDT3 PSM03 GAR1 THP67 EEL ACR8P LON R93 SCFE2 TSE2 TSE2 TSE2 TSE2 TSE2 TSE2 TSE2 TS	3029.073678 29470.3443 4708.634753 1116.595475 744.647377 500.2517757 5761.38369, 661.6271628 2125,45134 366.2882713 240.6112245 128.2949804 721.2065986 412.045086 4	0.42684512 0.64958831 0.90224972 0.7954042773 1.726431768 0.529574228 0.675875805 0.607894021 1.086932776 1.011936144 0.99391707 0.78688472 0.752137115 1.348514709 0.48888116 2.716026624 0.83716307 1.73715648 2.33120959 1.601110947 0.74931108	0.103540745 0.103540745 0.137596622 0.2139059604 0.13280729 0.17132306 0.302411637 0.1647665065 0.264079421 0.2445945236 0.241708859 0.191460137 0.191460137 0.328312685 0.115082666 0.855248937 0.6561677872 0.203963346 0.423547658 0.056974223	4.12264857, 4.12181377 4.12185777 4.11837398 4.11827007 4.11832811 4.11858967 4.11654617 4.11578961 4.11578961 4.1104157 4.11041565 4.11041563 4.10741574 4.1054007 4.	3.7460EC 65 3.7590ZE 05 3.7590ZE 05 3.7590ZE 05 3.8163EC 05 3.8163EC 05 3.8162EC 05 3.8072TC 05 4.0055EC 05 4.0055EC 05 4.0055EC 05 4.0052EC 05 4.1052EC 05 4.1128EC 05	0.000785817 0.000787818 0.000787948 0.000787948 0.000789079 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000812066 0.000812066 0.000812066 0.000812066 0.000812066 0.000812066 0.000812066 0.000812066 0.000812066 0.000812066 0.000812066 0.000812066
RSG PSME2 UNPP1L TOPIMF RSSION.UDT3 PSMO3 GARL THWP7 KRL ACRAP LONNY3 SCFD2 TSSC4 GPRCSA VMS2 KN3DL1 H80 TUR4 MEDV TUR4 MEEVV PITSS GFD TUR4 MEEVV RSG TUR4 MEEVV RSG GFD TUR4 MEEVV RSG TUR4 MEEVV RSG GFD TUR5 TUR5 TUR5 TUR5 TUR5 TUR5 TUR5 TUR5	3029.073678 29470.3443 4708.634733 1116.564578 744.6472727 500.2517757 5764.38309, 661.6271628 2125.6513440 366.2282713 240.6112249 128.294990 721.2085981 2477.218079 671.8169039 412.0450867 33.003331774 35.092089847 13.75073709 9.919636773 2888.023796 5696.341790 116.5785337 2477.5783173	0.4568512 0.69058831 0.902828972 0.794042773 0.705546057 1.265431768 0.535954222 0.675875800 0.607894027 1.01936144 0.99391700 0.752137115 1.346514709 0.438841709 0.43881709 0.43881709 0.752137115 1.737156488 2.71607667 1.73715648 2.71607667 1.73715648 2.7160767 0.7493110 0.7493110 0.7493110 0.7493110 0.7493110 0.7493110 0.749313141 0.38888833 0.6073333414 0.38888833 0.607348729	0.1035407.5 0.13759622 0.219059604 0.13280729 0.17132306 0.302411637 0.164180439 0.147655065 0.25409131 0.243708399 0.19461079 0.18303597 0.32833283 0.424708899 0.19460179 0.18303597 0.32833283 0.424708899 0.19460179 0.18303597 0.32833283 0.5665674223 0.390553451 0.182823207 0.17415787 0.097333881 0.182823207 0.17415787	4.12248457. 4.1218174 4.12181774 4.118827398 4.11823026 4.11832811 4.11882306 4.11654617 4.11678666 4.11678666 4.11047666 4.107572811 4.10747676 4.10747676 4.10747676 4.10747676 4.10747676 4.10747676 4.10747676 4.10747676 4.10747676 4.107477676 4.107477676 4.107477676 4.107477676 4.107477676 4.107477676 4.107477676 4.107477676 4.107477676 4.107477676 4.107477676 4.107477676 4.107477676 4.107477676 4.107477676 4.107477676 4.107477676 4.10747776 4.10747776 4.1074776 4.10747776 4.1074776 4.1074776 4.1074776 4.10747776 4.10747776 4.10747776 4.10747776 4.10747776 4.107477776 4.107477776 4.107477777777 4.107477777 4.10747777 4.10747777 4.107477	3.74698: 65 3.7592E: 65 3.7592E: 65 3.81639E: 65 3.81639E: 65 3.81639E: 65 3.8395E: 65 4.0558E: 65 4.0558E: 65 4.1528E: 65 4.1	0.000785117 0.0007871817 0.0007872184 0.0007872184 0.0007872184 0.000785071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.00081082 0.00081082 0.00081082 0.00081082 0.00081082 0.00081082 0.00081087 0.00081087 0.00081087 0.00081087 0.00081087 0.00081087 0.00081087 0.00081087 0.00081087 0.00081087
BOG PSME2 UDROP11 TOPIMI RESION UDTO PSME3 GARI THEFT RESION UDTO PSME3 GARI CLONES GARI	3029.073678 29470.3443 4708.634753 1116.595377 744.647377 750.2517757 576.133896 661.6271628 2125.451344 366.8282713 240.61127.65 128.2949800 721.2055931 247.712.80529 671.8169008 412.0450867 35.0928866 2807.089847 115.7937032 9.319636773 2888.023769 566.334759 566.334759 566.334759	0.426845127 0.649588313 0.90224977 0.70564077 1.265431768 0.529574228 0.657894021 1.086932776 1.011916144 0.99391707 0.786981715 1.348514709 0.488881137 3.634312166 2.716026642 0.837156408 2.332150954 1.6011910954 1.6011910954 1.6011910954 1.6011910954 1.6011910954 1.6011910954 1.6011910954 1.7023334144 0.702333414	0.103540745 0.137596622 0.2159059604 0.13280725 0.1712206 0.302411637 0.12857273 0.164180439 0.1447805395 0.244708859 0.194801379 0.328312858 0.11908206 0.885248937 0.661677872 0.209963348 0.435347638	4.122e84557 4.121813174 4.12185772 4.118137398 4.118270076 4.118832811 4.11858076 4.116564617 4.115728911 4.114747692 4.11041576846 4.100713186 4.107157345 4.10540072 4.104477803 4.10447803 4.10447802 4.10447803 4.10447803 4.10047803 4.10047803 4.10047803 4.10047803 4.10047803 4.10047803 4.10047803 4.10047803 4.1005503215 4.100750365 4.100750365 4.100750365 4.100750365 4.100750365 4.100750365 4.100750365 4.100750365 4.100750365	3.74698C 65 3.7569Ze 65 3.7569Ze 65 3.81639C 65 3.81639C 65 3.81639C 65 3.8452Ze 65 3.8459Ze 65 3.8459Ze 65 3.8459Ze 65 3.8459Ze 65 3.8459Ze 65 3.8459Ze 65 4.0558Ze 65 4.0558Ze 65 4.0558Ze 65 4.0558Ze 65 4.1558Ze 65 4.1558	0.000785117 0.000785117 0.000787488 0.0007875017 0.000785017 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000875072 0.000810660 0.000810660 0.000810660 0.000810660 0.000810660 0.000810660 0.000810670 0.000810670 0.000810670 0.000810670 0.000810670 0.000810670 0.000810670 0.000810670 0.000810670 0.000810670 0.000810670 0.000810670 0.000810670 0.000810670 0.000810670 0.000810670 0.000810670 0.000810670 0.000810670
85G PSME2 URAPIL TOPIMT WS10AUDT3 PSMM3 GARI THEFT SEE ACROP LONNF3 SCF DQ TSSCA GPRCSA YMS32 WS82 WS82 WS82 WS82 WS82 WS82 WS82 WS8	3029.073678 29470.3433 4708.634733 1116.594578 744.647377 500.2517757 5763.38369 661.6271628 2125.451344 366.8282731 240.6112289 122.725757 5763.33606 721.705737 360.325757 3763.3257 376	0.4568512 0.64958831 0.902824977 0.795042773 0.705542773 0.705542773 0.559574723 0.679784021 -1.086932776 1.011936144 0.9939170 0.786931715 1.34851470 0.488831187 3.634312166 2.7716026642 0.8737639 1.73715486 2.33715007 1.73715486 2.33715007 0.70233414 0.39888883 0.0027459 0.0027459 0.0027459 0.0027459 0.0027459 0.0027459 0.0027459 0.0027459 0.0027459 0.00	0.103540745 0.137596622 0.2159059604 0.19280729 0.17122306 0.302411637 0.164180439 0.147665065 0.2640794212 0.2459945538 0.191480139 0.191480139 0.191480139 0.232833288 0.191902466 0.885248937 0.661677837 0.03935384 0.422547658 0.5661677837 0.039553451 0.138262097 0.171415787 0.037533981 0.147345083	4.12264857; 4.1218377 4.12186777 4.11832398 4.11823398 4.11823398 4.11852811 4.1185881 4.1185881 4.11678462; 4.11578811 4.11477249; 4.110745743 4.10745743 4.10745743 4.10745743 4.10745743 4.10745743 4.10745743 4.10745743 4.107476753 4.107476753 4.107476743 4.107476753 4.107476753 4.107476753 4.107476753 4.107476753 4.107476753 4.107476753 4.107476753 4.107476753 4.107476753 4.107476753 4.107476753 4.107476753 4.107476753 4.107476753 4.107476753 4.0075753464 4.0075753464 4.0075753464 4.0075753464 4.0075753464 4.0075753464 4.0075753464 4.0075753464 4.0075753464 4.0075753464 4.0075753464 4.0075753464 4.0075753464 4.0075755466 4.007575466 4.0075754666 4.007575766 4.0075754666 4.0075754666 4.00757546666666 4.0075754666666666666666666666666666666666	3.746984 05 3.7592E 05 3.7592E 05 3.816394 05 3.81631E 05 4.05581E 05 4.05581E 05 4.05581E 05 4.05581E 05 4.05581E 05 4.15581E	0.000785117 0.000785117 0.000787484 0.000787484 0.000785071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000812050
85G PSME2 URSPIL TOPLIM ROSION UDT3 PSMO3 GARL THEFT REL ACREP LON ROS SCIENCE SCIENCE SCIENCE SCIENCE TURN ROSION UDT3 PSMO3 GARL THEFT REL ACREP LON ROS SCIENCE SCI	3029.073678 29470.3433 4778.634733 1116.596537 744.647377 500.251757 576.338309 661.6271622 2125.451344 366.8282731 240.6112249 128.2940804 721.7053801 247.7053801 247.7053801 247.7053801 247.7053801 247.7053801 247.7053801 247.7053801 257.7053801	0.42684512 0.64958831 0.90224972 0.795042773 0.7055461376 0.525974222 0.67895800 0.697894021 1.086932776 1.011936144 0.9939170 0.78268171 0.78268171 1.348511709 0.488613126 2.715056642 1.73715648 2.332150954 1.070338416 0.70338416 0.70338416 0.9939170 0.70338416 0.70338416 0.70338416 0.9939170 0.70338416 0.9939170 0.70338416 0.9939170 0.9939170 0.993946197 0.993946197 0.993946197 0.993946197 0.9934687 0.9934687 0.9934687 0.9934687 0.9934687 0.9934687 0.9	0.103540745 0.103540745 0.137596622 0.2139058604 0.132807273 0.104116373 0.12827372 0.104116373 0.12827373 0.104116373 0.12827373 0.104116373 0.12827373 0.104116373 0.1041630439 0.138352836 0.139363364 0.138352836 0.139363364 0.138352836 0.139363364 0.139363364 0.1393733836 0.1393733836 0.1393733836 0.1393733836 0.1393733836 0.13734738363 0.13734738363 0.13734738363 0.13734738363 0.13734738363 0.13734738363 0.13734738363 0.13734738363 0.13734738363	4.12264857, 4.12183174 4.12183774 4.11832398 4.11823398 4.11823398 4.11823398 4.11823281 4.11828891 4.11878981 4.11578981 4.11578981 4.11578981 4.11042165 4.11042165 4.11042165 4.11042165 4.11042165 4.1042163 4.1042163 4.10442783 4.10541263 4.10442783 4.10542163 4	3.746084 05 3.75602E 05 3.75602E 05 3.81639E 05 3.81639E 05 3.81639E 05 3.81639E 05 3.8272E 05 3.8272E 05 3.8272E 05 3.8272E 05 3.8272E 05 4.0352E 05 4.0352E 05 4.0352E 05 4.1252E 05	0.000785117 0.000785117 0.000787184 0.000787184 0.000787518 0.000785071 0.000785071 0.000785071 0.000785071 0.000785071 0.000785071 0.000812066 0.000812066 0.000813687 0.000813687 0.000813687 0.000813687 0.000813687 0.000813687 0.000813687 0.000813687 0.000813687
RSG PSME2 UNPP1L TOPIMF RPS1DN UDT3 PSME3 GARL THWP7 KRL ACREP LONRF3 SCFD2 TSSC4 GPRCSA VMS2 KRISUL1 HB0 TURA MPEDV TURA MPEDV TURA MPEDV TURA UNC1198 TMEMS12 UNC1198 TMEMS12 TMEMS12 TMEMS12 TMEMS12 TMEMS13 TMEMS13 TMEMS14 TMEMS15 TMEMS1	3029.073678 29470.3433 4706.634733 1116.564573 744.6473727 500.2517757 576.3.83809 661.6271628 2125.451344 366.8282731 240.6112249 128.2949900 721.085981 2477.2180598 412.0459857 3.001331776 35.09208864 217.7370729 9.919636777 2888.02777 2888.02777 2888.02777 2888.02777 2888.02777 2888.02777 2888.02777 2888.02777 2888.02777 2888.02777 2888.02777 2888.02777 2888.02777 2888.02777 2878.028787 2475.751817 2475.751817 2475.751817 2475.752817	0.4568512 0.69058831 0.705404277 0.705404277 0.705546057 1.26541768 0.525954222 0.675875805 0.607894027 1.08693277 1.011936144 0.9991970 0.755191115 1.34851470 0.755191115 1.34851470 0.755191115 1.7155686471 0.755191115 1.34851470 0.755191115 1.34851470 0.755191115 1.7155686471 0.755191115 1.7155686471 0.755191115 1.7155686471 0.755191115 1.7155686471 0.755191115 1.7155686471 0.755191115 1.7155686471 0.755191115 1.7155686471 0.755191115 1.77515686871 0.77519115 0.775	0.1035407.5 0.13759622 0.2159059604 0.19280729 0.17132306 0.302411637 0.168180439 0.147655065 0.264072412 0.265945536 0.214708859 0.191460175 0.13803197 0.13803197 0.30851461 0.473547638 0.473547638 0.473547639 0.390553461 0.182822907 0.171415787 0.097353981 0.1473437637 0.097353981 0.1473437637 0.097353981 0.1473437637 0.127353763	4.12264857.2 4.1218174 4.12181774 4.12186772 4.11813789 4.11823089 4.11823080 4.118523811 4.118528811 4.11878802 4.115728011 4.114774002 4.117071573 4.1100715734 4.107476033 4.107476033 4.107476033 4.107476033 4.107476033 4.107476033 4.1074777603 4.1074777603 4.1074777603 4.1074777603 4.10747777603 4.107477777603 4.10747777777777777777777777777777777777	3.746984 05 3.7592E 05 3.7592E 05 3.816394 05 3.81631E 05 4.05581E 05 4.05581E 05 4.05581E 05 4.05581E 05 4.05581E 05 4.15581E	0.000785117 0.000787181 0.000787218 0.000787218 0.000787218 0.000785071 0.000785071 0.000785071 0.000785071 0.000785071 0.000785071 0.000785071 0.000785071 0.0008507861 0.00081087 0.00081087 0.00081087 0.00081087 0.00081087 0.00081087 0.00081087 0.00081087 0.00081087 0.00081087 0.00081087
BOG PSME2 URRPIL TOPIMI RESION UDT3 PSME3 GARI THEFT KEL ACREP LON RES GARI THEFT KEL ACREP LON RES GERCA VANS GERCA VANS CONTROL THE THE CONTROL THE CONTROL THE THE CONTROL THE THE THE THE THE THE THE THE	3029.073678 29470.3443 4708.634753 1116.595377 744.647377 500.2517757 576.338396 661.6271622 2123.451344 366.8282731 240.6112245 128.2949804 721.205938 671.8159088 412.0450867 3.003331774 35.09288586 2807.089647 17.75707079 9.919861777 288.027976 5696.341796 5696.341796 577.75707079 3411.903992 723.765579 3411.903993 723.76579 3411.903993 723.76579 248744 124.757.51817	0.45685127 0.64958831 0.902839372 0.795042773 0.705546057 1.245411768 0.55954272 1.06958277 1.01936144 0.9939170 0.75873605 0.607834021 1.01936144 0.9939170 0.75213715 1.348514709 0.488881187 3.54312166 2.716036642 0.83716307 1.737156488 2.33120955 1.60110937 0.79391108 0.702333414 0.398888312 0.39888831 0.79391108 0.702333414 0.39888831 0.07939470 0.79391108 0.702333414 0.39888831 0.07939470 0.79391108 0.70233414 0.39888831 0.4987450 0.5987450	0.1035407.5 0.1035076.2 0.21905960.4 0.1392807.9 0.1713206. 0.3024116.3 0.3024116.3 0.138287.9 0.16480433 0.14765050.5 0.2649024.1 0.2459453.8 0.24178859.0 0.1393128.5 0.1190624.6 0.83524893.7 0.2615787.3 0.261578.3 0.1145787.3 0.1145	4 12248457 4 121813176 4 12186772 4 118832781 4 11882026 4 118822616 4 1186266417 4 116788627 4 1116788627 4 11045664 4 11072186 4 11092186 4 11092186 4 1092186 4 1092187 4 1092186 4	3.7400EC 05 3.7590ZE 05 3.7590ZE 05 3.7590ZE 05 3.8163YE 05 3.8163YE 05 3.8163YE 05 3.8403YE 05 4.003YE 05 4.003YE 05 4.103YE 05 4.1138YE 05 4.1138YE 05 4.1138YE 05 4.1134YE 05 4.123YE 05 4.13YE 05 4	0.000785117 0.000785117 0.000787488 0.000787518 0.000787518 0.000787517 0.000785071 0.000785071 0.000785071 0.000785071 0.0008785071 0.000812066
805 PSME2 URAPIL TOPIMT WS10-NUDT3 PSMM3 GARI TN9F7 IEL ACR8P LONNF3 SCF D0 TSSC4 GPRCSA YMS52 KRIRCH HBO ILINA MPEOV PITX3 CFD AUREAPPI COLORISB TMEMOPI TMEM	3029.073678 29470.3433 4706.634733 1116.564578 744.647372 500.2517757 5763.38369 661.6271628 2125.451344 366.8282713 240.6112289 128.2949990 721.2085961 2477.218079 677.1816999 412.0450867 3.003331774 35.02208866 2807.089847 17.5703702 9.9316367379 2888.037379 5969.34179 2475.751817 2475.751817 2475.751817 2475.751817 2475.751817 3411.930390 727.78390269 77.78390369 77.78390369 77.78390369 77.78390369 77.78390369 77.78390369	0.45685121 0.64958831 0.902824972 0.794042773 0.705540057 1.264431708 0.529574223 0.675875005 0.607894021 -1.086932776 1.011936144 0.9993170 0.785698171 0.8856988811 0.60324593 0.79148729 0.5952468197 0.485615612 0.485615612	0.1035407.8 0.103507.8 0.13759622 0.2139059604 0.13280729 0.17132306 0.302411637 0.164180439 0.147665065 0.264072421 0.265945336 0.241708859 0.194607247 0.13830379 0.13830379 0.23833283 0.119024666 0.885248937 0.0661677737 0.20933346 0.423547658 0.5661677737 0.20933346 0.423547658 0.147434053 0.138317267 0.137343981 0.147343031 0.13732703 0.13734703	4.12264857. 4.12183174 4.12183774 4.12183778 4.11823088 4.118230806 4.118532811 4.118823811 4.118823811 4.11878811 4.11477402 4.11578811 4.11477402 4.1107157334 4.107567334 4.10756734 4.107575046	3.746984 05 3.7592E 05 3.7592E 05 3.81639E 05 3.81639E 05 3.81639E 05 3.81639E 05 3.81639E 05 3.8452E 05 3.84539E 05 3.84539E 05 3.84539E 05 3.84539E 05 3.84539E 05 4.0558E 05 4.1558E 05	0.000785117 0.000787184 0.0007872184 0.0007872184 0.0007872184 0.000785071 0.000785071 0.000785071 0.000785071 0.000785071 0.000785071 0.000785071 0.0008507864
RSG PSME2 UDMP11 TOPIMIT RPS10N UDT3 PSM03 GAR1 THPP7 KEL ACRBP LON RF3 SCF D2 TSSCA TSCA T	302.073-67. 24470.3463 4706.6347-33 1116.5457-37 744.64737.27 500.25177-7 576.33809 661.62716.28 2125.451344 366.2827.13 240.61122.49 128.299890 721.205588 2477.18050 671.816900 412.045867 3.0333177-7 3.5092886. 2807.089847 17.73703702 288.02379- 288.02379- 288.02379- 2737.482744 9.9278.5238 77.7839006 2099.753246 9.9278.52389 77.7839006 2099.753246 124.5511279 124.5511279 124.5511279 125.551127 126.575127 127.75128906	0.45685127 0.6958831 0.90283937 0.795040277 0.705540057 1.285431768 0.535954225 1.08693277 1.01936144 0.99391703 0.78588750 0.67894277 1.01936144 0.99391703 0.785887187 1.73715646 2.71605642 0.83716307 1.73715646 2.332150954 1.601110947 0.703313144 0.398888372 0.9938872 0.952868119 0.952868119 0.79331344 0.39888832 0.0974593 0.79331344 0.39888832 0.0974593 0.79331344 0.39888832 0.0974593 0.79331344 0.39888832 0.0974593 0.79331344 0.3988832 0.0974593 0.79331344 0.3988832 0.0974593 0.79331344 0.3988832 0.0974593 0.79331344 0.3988832 0.0974593 0.5988832 0.598883	0.1035407.5 0.1035076.2 0.21905960.4 0.19280729 0.1713206. 0.302411637 0.1285727.3 0.16418033 0.14765045.5 0.26405453.6 0.244708853.9 0.191460179 0.1880537.7 0.28532837.3 0.561677872.3 0.203963346.6 0.47354780.3 0.30551451.0 0.1874527.7 0.203963346.0 0.1874527.7 0.203963346.0 0.1874527.7 0.203963346.0 0.1874527.7 0.203963346.0 0.1874527.7 0.203963346.0 0.1874527.7 0.203963346.0 0.1874527.7 0.203963346.0 0.1874527.7 0.203963346.0 0.30551451.0 0	4.12248457. 4.121813174 4.121816777 4.118823789 4.118823086 4.118823086 4.118823086 4.118823086 4.118823086 4.118823086 4.118823086 4.118823086 4.118823086 4.118823086 4.118823086 4.118823086 4.118823086 4.118823086 4.118823086 4.118823086 4.118823086 4.108472807 4.1084	3.74698C 65 3.7592E 65 3.76631E 65 3.81639C 65 3.81639C 65 3.81639C 65 3.81639E 65 3.81639E 65 3.8027E 65 3.8027E 65 3.8027E 65 3.8027E 65 3.8027E 65 4.0055E 65 4.1056E 65 4.11764E 65 4.1276E 65 4.1276E 65 4.1277E 65 4.2272E 65 4.2242E 65 4.2	0.000785812 0.000785812 0.000787848 0.000787848 0.000787848 0.000787947 0.000789649 0.000789679 0.000789679 0.000789679 0.000789679 0.000816679 0.000816679 0.0008167849 0.0008167849 0.0008167849 0.0008167849
856 PSME2 URBPIL TOPIMT RISIONUDTS PSMOS GARL THEFT LEL ACREP LON NOS GFE ACREP LON	3029.073678 29470.9433 4706.044733 1116.594578 744.647377 500.2517757 5763.83809 661.6271628 2125.451344 366.8282731 240.6112289 1122.945900 721.208590 471.208590 472.0089647 3.0093831774 35.00208866 2807.0089647 17.57037029 9.91966.773 288.03799 5969.84179 288.03799 5969.84179 278.7751817 3411.90399 723.776572 2447.011352 2477.011352 2477.77899966 2099.753649 9.97786599 77.78999966 2099.753649 126.5511279	0.4568512 0.64958831 0.902824972 0.79404273 0.70554075 1.245431768 0.559574223 0.678785905 0.607894071 -1.086932776 1.011936144 0.9991700 0.488851187 3.634312166 2.7150056627 1.7150466 2.33115092 0.607374939 0.70233414 0.33888832 0.603745939 0.791948726 0.4881516126 2.4881516126 2.715005662 1.715015662 1.715015662 1.715015662 1.715015662 1.715015662 0.70233414 0.33888832 0.603745939 0.791948726 0.4881516126 2.4881516 2.4881516 2.4881516 2.4881516 2.4881516 2.4881516 2.4881516 2.4881516 2.4881516 2.48815 2.48815 2.48815 2.48	0.10354074.5 0.13759622 0.2139059604 0.13280729 0.17123206 0.302411637 0.164180439 0.14765005 0.764070412 0.2457945336 0.131807379 0.1381801379 0.1381801379 0.1381801379 0.1381801379 0.1381801379 0.1381801379 0.1381801379 0.1381801379 0.1381801379 0.138181801379 0.138181801379 0.138181801379 0.138181801379 0.138181801379 0.138181801379 0.138181801379 0.138181801379 0.138181801379 0.138181801379 0.138181801379 0.138181801379 0.138181801379 0.138181801379 0.138181801379 0.138181801379 0.1381818013	4.12264857; 4.12183174 4.12183774 4.12183775 4.11832381 4.11823086 4.118523811 4.118523811 4.11852811 4.11578811 4.11578811 4.11578811 4.11578811 4.11578811 4.11047543 4.10541283 4.105412	3.74698C 65 3.7592E 65 3.7592E 65 3.81639C 65 3.81639C 65 3.8161C 65 3.8162E 65 4.0558E 65 4.0558E 65 4.0758E 65 4.0758E 65 4.1558E	0.000785117 0.000785117 0.00078744 0.00078744 0.00078744 0.000785071 0.000785071 0.000785071 0.000785071 0.000785071 0.000785071 0.000785071 0.000785071 0.00081061 0.00081061 0.00081061 0.000852314
856 PSME2 UBMP11 TOPIMIF RESIDNUTS RESIDNUTS RESIDNUTS SAME GARL THEFT KEL ACREP LON RES SCTOR TSSCA GRES TSSCA GRES TSSCA GRES TSSCA WAS2 KRIST TSCA WAS2 KRIST TSC	3029.073678 29470.3443 4708.634733 1116.56457372 744.6473727 500.251775 576.338306 661.6271628 2125.451344 366.2882713 240.6112249 128.294990 721.205588. 2477.218029 671.8169099 412.0459867 3.003313774 35.002866 2807.089847 115.75037029 293.2476.1352 2477.718029 723.756573 2477.73677 2477.7367	0.45685127 0.6958831 0.902829972 0.794042773 0.705546057 1.265431769 0.5359574223 0.678940277 1.01936144 0.99391700 0.78584077 1.011936144 0.99391700 0.752187115 1.34551470 0.752187115 1.34551470 0.752187115 1.73715646 2.71502664 0.88716307 1.73715646 2.332150956 1.601110947 0.799313014 0.398388312 0.079148779 0.952468107 0.952468107 0.451216126 1.267247256 1.369410007 0.571212865 1.1786120814	0.1035407.5 0.1035076.2 0.219059604 0.19280729 0.17143206 0.30241165.7 0.12850729 0.17143206 0.30241165.7 0.164180439	4.12248457. 4.1218174 4.1218177 4.1188772 4.11882378 4.11882308 4.11882308 4.11882308 4.11882308 4.11882308 4.11882308 4.11882380 4.116548417 4.11674842 4.11573874 4.110415468 4.107157344 4.10745743 4.10447805 4.10447805 4.10447805 4.09615928 4.098575246 4.09662667 4.097833772 4.098582318 4.098582318 4.098582318 4.098582318 4.098582318 4.098582318 4.098582318 4.098582318 4.09858238 4.09858238 4.09858238 4.09858238 4.09858238 4.09858238 4.09858238 4.09858238 4.09858238 4.09858238 4.09858238 4.09858238 4.09858384 4.09858384 4.09858384 4.09858384 4.09858384 4.09858384 4.09858384 4.09858384 4.09858384 4.09858384 4.09858384 4.098583884 4.098583884 4.098583884 4.098583884 4.098583884 4.09858884 4.09858884 4.098588884 4.098	3.74698C 65 3.7592E 65 3.76631E 69 3.81639C 65 3.81639C 65 3.81639C 65 3.81639C 65 3.8037E 65 3.8037E 65 3.8037E 65 3.8037E 65 3.8037E 65 4.0037E 65 4.0037E 65 4.0037E 65 4.1038E 65	0.000785812 0.000785812 0.000787248 0.00079507 0.00079507 0.00079507 0.00079507 0.00079507 0.0008166 0.0008766 0.0008766 0.0008766 0.0008766 0.0008766 0.0008766 0.0008766 0.0008766 0.0008766 0.0008766 0.0008766
866 PSME2 UMPP1 TOPJMT RPS10NUDT3 PSMES GARI TTHP7 SEL ACRIBP LONRF3 SCF D2 TSCA GPRCSA VMS2 KRISCA GPRCSA VMS2 KRISCA GPRCSA VMS2 KRISCA GPRCSA VMS52 KRISCA GPRCSA TLRH MEDO T	3029.073678 29470.3433 4706.634733 1116.564578 744.647372 500.2517757 5763.38369 661.6271628 2125.451344 366.8282713 240.6112289 122.5451344 366.8282713 240.6112289 122.72.18029 671.8169093 412.0459667 3.003331774 35.02208866 2807.089847 175.7037029 9.919636777 2888.037379 5969.34179 277.781817 2475.751817	0.45685127 0.64958831 0.902824977 0.794042773 0.70554007 1.264431708 0.529574223 0.678787805 0.607894071 -1.08693277 1.011936144 0.99931700 0.78508471 0.785187115 1.348514709 1.348514709 1.715076646 2.731507647 0.785187115 1.601110947 0.785187115 1.601110947 0.7951810 0.702313414 0.39888831 0.60237493 0.792313414 0.39888831 0.4027476 1.36440697 0.57812812 1.275204285 1.36440697 0.57812812 1.275204285 1.36440697 0.57812812 1.275204285 1.36440697 0.57812812 1.275204285 1.36440697 0.57812812 1.275204285 1.36440697 0.57812812 1.275204285 0.57812812 1.275204285 0.57812812 1.275204285 0.57812812 1.275204285 0.57812812 0.57	0.1035407.5 0.13759622 0.2139059604 0.13280727 0.137132306 0.302411637 0.164180439 0.147652065 0.264020421 0.263945336 0.241708859 0.19146765065 0.264020421 0.263945336 0.241708859 0.1914071 0.1830337 0.261807 0.261807	4.12264857. 4.1218174 4.12181774 4.121867772 4.11882398 4.118220026 4.118823811 4.118823811 4.118823811 4.118823811 4.118823811 4.118728811 4.11972813 4.11972813 4.1097281 4.10972813 4.10972813 4.10	3.74608C 05 3.75602E 05 3.75602E 05 3.8163E 05 3.8163E 05 3.8163E 05 3.8163E 05 3.8163E 05 3.8162E 05 3.8002E 05 3.8002E 05 3.8002E 05 3.8002E 05 3.8002E 05 4.00502E 05 4.00502E 05 4.00502E 05 4.00502E 05 4.10502E 05 4.105	0.000785812 0.007785812 0.00778748 0.00778748 0.007785071 0.007785071 0.007785071 0.007785071 0.007785071 0.007785071 0.007885071 0.00812066 0.0081206
866 PSME2 UMAPIL TOPLIMT PSSIDNUUTS PSMMS GARI TTIPPT KE ACRIP LONRES SCPOR TSSC4 GPRCSA VWS2 KMS1CL1 HBD TLBA MMEDV PITXS CFC AURENT LONGES TURNES T	3029.073678 29470.3434 4708.634733 1116.564578 744.6472727 500.2537757 5764.38369, 661.6271628 2125.6131440 366.2282713 240.6112249 128.294990 721.2085981 2477.218079 677.818079 677.818079 677.818079 677.818079 177.70837093 17	0.4568512 0.64958831 0.902828972 0.794042773 0.705546057 1.265431768 0.539594222 0.678978027 1.011936144 0.99391700 0.78694677 1.011936144 0.99391700 0.752137115 1.348514709 0.752137115 1.348514709 1.773156488 2.71602667 1.77315648 2.716027667 1.77315648 2.716027667 1.77315648 2.716027667 1.77315648 2.716027667 1.77315648 2.716027667 1.77315648 2.716027667 1.77315648 1.601110947 0.79313414 0.39888832 0.60747276 0.1546120814 2.428516178 1.7735865 0.5746120814 1.364430097 0.5766120814 1.364430097 0.5766120814 0.36516365 0.37535650122 0.576412211 0.36516365 0.37535650122 0.576412211 0.36516365 0.32536602 0.576412211 0.365618765 0.32536602 0.576412211	0.1035407.5 0.1035076.2 0.219059604 0.1928072.9 0.1719200.9 0.3024116.7 0.1028072.9 0.1719200.9 0.3024116.7 0.16803.9 0.14785508.9 0.141804.9 0.14303.9 0.14785508.9 0.1478508.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9	4.12248457 4.12181377 4.1218177 4.12186772 4.11832781 4.11823028 4.118232811 4.11823028 4.118232811 4.118232811 4.118232811 4.118232811 4.11678862 4.11051282 4.110415282 4.110415282 4.10415282 4.10415282 4.10416282 4.104	3.74698C 50 3.7592E 60 3.7592E 60 3.81639C 60 3.81639E 60 3.81639E 60 3.81639E 60 3.81639E 60 3.8395E 60 4.0558E 60 4.0558E 60 4.0558E 60 4.0558E 60 4.1595E 60 4.159	0.000785817 0.000787841 0.000787044 0.000787044 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.0008061006 0.000810870 0.00085234 0.000852314
856 P3ME2 UBAPEL UBAPEL TOPLIM RESION UBTS PSMOS GARL THEFT ELL ACREP LON RESION UBTS SCFEE TERE THEFT ELL ACREP LON RESION THEFT ELL ACREP ELL ELL ELL ELL ELL ELL ELL ELL ELL E	3029.073678 29470.3433 4706.634733 1116.564578 744.647377 500.2517757 5764.38369 661.6271628 2125.451344 366.8282731 240.6112249 1122.7451344 366.8282731 240.6112249 1122.7451344 366.8282731 240.71218029 671.3159039 412.0455867 3.003331774 35.00208866 2807.039947 17.57037025 9.91966677 288.037976 596.941798 278.751817 3411.903993 723.7765738 777.7859066 509.9753748 110.5785317 120.97552598 177.7859066 509.9753246 120.9755278 2233.143127 6997.654027 2233.143127 6997.654027 220.9554778 1237.65025 2233.143127 6997.654027 220.9554778 1237.65025 2233.143127 6997.654027 220.9554778 1237.65025 2233.143127 6997.654027 220.9554778 1237.65025 2233.143127 6997.654027 220.9554778 1237.65025 2233.143127 6997.654027 220.9554778 1237.65025 2233.143127 6997.654027 220.9554778 1237.65025 2233.143127 6997.654027 220.9554778 1237.65025 2233.143127 6997.654027 220.9554778 1237.65025 2258.017902 460.9512213	0.45685121 0.64958831 0.902824972 0.79404273 0.705540057 1.264431768 0.559540257 1.264431768 0.559540257 1.01936144 0.9999170 0.7659540057 1.01936144 0.9999170 0.786931715 1.34851187 0.786931715 1.34851187 0.786931715 0.786931715 0.786931715 0.786931715 0.786931715 0.786931715 0.786931715 0.786931715 0.786931715 0.786931715 0.786931715 0.786931715 0.786931715 0.786931715 0.7869317693 0.7993108 0.709333414 0.39888831 0.60374593 0.7993108 0.7993108 0.79933416 0.39888831 0.60374593 0.7993108 0.7993108 0.7993108 0.7993108 0.7993108 0.7993108 0.7993108 0.7993108 0.7993108 0.7993108 0.7993108 0.7993108 0.7993108 0.7993108 0.7993108 0.799333414 0.39888831 0.60374593 0.7993108 0.7993108 0.7993108 0.799333414 0.7993108 0.7993108 0.7993108 0.7993108 0.7993108 0.7993108 0.7993108 0.7993108 0.7993108 0.7993108 0.7993108 0.7993108 0.7993108 0.7993138624 0.79937863	0.10354074.5 0.13759622 0.215905604 0.13759622 0.13759622 0.13759622 0.13759622 0.13759622 0.13759622 0.13759622 0.13759622 0.14765065 0.264072417 0.138595 0.19460727 0.13831757	4.12264857. 4.12183174 4.12183174 4.12183775 4.11882388 4.118220026 4.118323811 4.118823811 4.118823811 4.118823811 4.118823811 4.11878811 4.11477492 4.11578811 4.11477492 4.11578811 4.1107157334 4.105755346 4.105755356 4.105755346 4.1057553756 4.105753756 4.105753756 4.105753756 4.105753756 4.105753756 4.105753756	3.74698C 05 3.7569ZE 05 3.7569ZE 05 3.8163YE 05 3.8163YE 05 3.8163YE 05 3.8163YE 05 3.8163YE 05 3.8453YE 05 4.0558YE 05 4.0558YE 05 4.0558YE 05 4.0558YE 05 4.1558YE 05 4.1558	0.00078517 0.000785117 0.000785161 0.000785161 0.000785071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000851067
806 PSME2 URAPIL TOPIMT WS10AUDT3 PSME3 GARI TTMP7 IEL ACR8P LONNF3 SCF D0 TSSCA GPRCSA YMS32 RIGHT RI	3029.073678 29470.3434 4708.634733 1116.564578 744.6472727 500.2537757 5764.38369, 661.6271628 2125.6131440 366.2282713 240.6112249 128.294990 721.2085981 2477.218079 677.818079 677.818079 677.818079 677.818079 177.70837093 17	0.4568512 0.64958831 0.902828972 0.794042773 0.705546057 1.265431768 0.539594222 0.678978027 1.011936144 0.99391700 0.78694677 1.011936144 0.99391700 0.752137115 1.348514709 0.752137115 1.348514709 1.773156488 2.71602667 1.77315648 2.716027667 1.77315648 2.716027667 1.77315648 2.716027667 1.77315648 2.716027667 1.77315648 2.716027667 1.77315648 2.716027667 1.77315648 1.601110947 0.79313414 0.39888832 0.60747276 0.1546120814 2.428516178 1.7735865 0.5746120814 1.364430097 0.5766120814 1.364430097 0.5766120814 0.36516365 0.37535650122 0.576412211 0.36516365 0.37535650122 0.576412211 0.36516365 0.32536602 0.576412211 0.365618765 0.32536602 0.576412211	0.1035407.5 0.1035076.2 0.219059604 0.1928072.9 0.1719200.9 0.3024116.7 0.1028072.9 0.1719200.9 0.3024116.7 0.16803.9 0.14785508.9 0.141804.9 0.14303.9 0.14785508.9 0.1478508.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9 0.1191909.9	4.12248457 4.12181377 4.1218177 4.12186772 4.11832781 4.11823028 4.118232811 4.11823028 4.118232811 4.118232811 4.118232811 4.118232811 4.11678862 4.11051282 4.110415282 4.110415282 4.10415282 4.10415282 4.10416282 4.104	3.746986 05 3.756926 05 3.756926 05 3.816397 05 3.816398 05 4.05588 05 4.05588 05 4.05588 05 4.05588 05 4.05588 05 4.05588 05 4.05588 05 4.10588 05 4.10588 05 4.11588 05 4.11588 05 4.11598 05 4.1258 05 4.12	0.000785174 0.000785174 0.000787484 0.0007877484 0.000787674 0.000787677 0.000787677 0.000786787 0.000786787 0.000786787 0.000786787 0.000878677 0.000878678 0.00081087 0.0008578
866 PSM82 USAPIL TOPJMI RISION UDT3 PSM83 GARI THPP7 KEL ACRRP LONRS SCFD2 TSSC TSCC TSSC TRIP TRIP TRIP TRIP TRIP TRIP TRIP TRIP	3029.073678 29470.9433 4706.043733 1116.594578 744.647377.7 500.5217757 5764.38399.6 661.6271628 2125.451344 366.6282713 240.6112249 128.294990.0 721.206593 412.0450867 3.003331774 35.09208866 2807.089847 17.57037029 9.319663773 288.023796 269.3116.5785317 247.751817 259.751817 259.751	0.45685127 0.45685123 0.90283937 0.795042775 1.26541768 0.575954227 1.076546057 1.245411768 0.575954227 1.01936144 0.93931707 0.752137115 1.348514709 0.488881187 3.63412165 2.716036642 0.8716307 1.73715648 2.33120954 1.601110947 0.7931108 0.702333414 0.38888812 0.4072756 0.451261818 0.451261818 0.451261818 0.451261818 0.451261818 0.451261818 0.451261818 0.451261818 0.451261818 0.557412211 0.557412215 0.5575785 0.5575785 0.5	0.1035407.5 0.103507.5 0.1379667.2 0.21990960.4 0.132907.9 0.1713206. 0.3024116.7 0.138767.7 0.164180433 0.1476509.5 0.2649024.1 0.2459453.6 0.2459453.6 0.2459453.6 0.139082.6	4.12248457. 4.12186772 4.1218176 4.11883738 4.11822026 4.118323811 4.11883781 4.11883781 4.11883781 4.11883781 4.11883781 4.11883881 4.11883881 4.11883881 4.11883881 4.11883881 4.118838181 4.118838181 4.118838181 4.118838181 4.118838181 4.118838181 4.11884181 4.1184181 4.1184181 4.1184181 4.1184181 4.1184181 4.1184181 4.1184181	3.746984 65 3.75902E 65 3.75902E 65 3.816394 65 3.816394 65 3.816394 65 3.816394 65 3.816394 65 3.816394 65 3.816395 65 3.816395 65 3.816395 65 3.816395 65 3.816395 65 3.816395 65 3.816395 65 3.816395 65 3.816395 65 3.816395 65 3.816395 65 4.005584 65 4.005584 65 4.005584 65 4.005584 65 4.005584 65 4.105584 65 4.11594	0.00078517 0.00078516 0.00078748 0.000787671 0.000787671 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.000795071 0.00081206
ESG PSME2 UDAP1L TOPJAM PS10NUDT3 PSMD3 GAR1 TIMP7 SEL ACREP LONNES SOFTE SOFTE SOFTE SOFTE THERE THER	3028.073678 29470.3433 4708.634733 1116.564573 744.6473727 500.2537757 576.338306 661.6271628 2125.451344 366.8282731 240.6112249 128.293990 721.205981 2477.218079 671.816903 412.0450867 3.00238367 3.002387 3.002387 3.002387 3.002387 3.002387 3.002387 3.002387 3.0	0.4568512 0.69058831 0.902828972 0.794042773 0.705546057 1.265431768 0.525954222 0.675875805 0.657894021 1.01938144 0.99931700 0.78698471 0.752137115 1.34651470 0.752137115 1.34651470 0.752137115 1.737156468 2.33715095 1.60110947 0.7493116 0.70313814 0.0374592 0.952468137 0.95246813 0.95246813 0.95246813 0.95246813 0.95246813 0.95246813 0.95246813 0.95246813 0.95246813 0.95246813 0.95246813 0.95246813 0.95246813 0.95246	0.1035407.5 0.137596622 0.2137596622 0.2137596622 0.137596622 0.137596622 0.137596622 0.137596622 0.13759622 0.13759622 0.137555963 0.137555963 0.13755963	4.12248457 4.1218177 4.1218177 4.12186772 4.11882398 4.11823026 4.11852381 4.11882381 4.11882381 4.11882381 4.11882381 4.11878861 4.11578811 4.11472402 4.111572801 4.11472402 4.11001566 4.100231186 4.1007566381 4.1007566381 4.1007566386 4.009615928 4.0096159	3.746986 05 3.756926 05 3.756926 05 3.816397 05 3.816398 05 4.05588 05 4.05588 05 4.05588 05 4.05588 05 4.05588 05 4.05588 05 4.05588 05 4.10588 05 4.10588 05 4.11588 05 4.11588 05 4.11598 05 4.1258 05 4.12	0.000785117 0.000785117 0.000785117 0.000785117 0.000785117 0.000785117 0.000785117 0.000785117 0.000785117 0.000785117 0.00085117

CERCAM	41925.12751	-1.031013631	0.253404181	-4.068652799	4.72857E-05	0.000938436
RPLP1	47338.13938	0.821441125	0.201900134	4.068551655	4.73063E-05	0.000938436
DSCAML1	1435.622365	-0.897227051	0.220562791	-4.067898524	4.7439E-05	0.000939048
KRTCAP2	4685.633606	0.784102536	0.192746193	4.068057187	4.74067E-05	0.000939048
KCN H8	1846.695775	-1.344686325	0.330632395	-4.067013236	4.76195E-05	0.000940601
TPST2	1618.816755	0.511980794	0.125882682	4.067126517	4.75964E-05	0.000940601
FPGS	2613.288841	0.57028292	0.140288193	4.065081371	4.80157E-05	0.000947411
W HRN	2767.817744	-0.694499439	0.170897929	-4.063825945	4.82748E-05	0.000951505
AG AP4	668.7855641	-0.670975762	0.165171477	-4.06229802	4.8592E-05	0.000956733
TMEM158	2106.209581	1.245441524	0.306666937	4.06121878	4.88172E-05	0.000960141
CECR2	1069.160038	-0.992721604	0.244461121	-4.060856792	4.8893E-05	0.000960606
RHBDD8	1860.998329	0.586219531	0.144394612	4.059843535	4.91056E-05	0.000963756
ZC3H12A	445.7249196	1.210149702	0.298167957	4.058617551	4.93641E-05	0.000967799
ZNF76	1905.047027	-0.245369963	0.060491213	-4.056290974	4.98581E-05	0.00097567
CEBPB	4168.408139	0.946846404	0.233430237	4.05622861	4.98714E-05	0.00097567
SH2D6	257.9364772	0.885625957	0.218380706	4.055422167	5.00438E-05	0.000978004
COPS8	3682.736632	0.248724871	0.061347969	4.054329322	5.02783E-05	0.000981546
ATP6VDC	18940.77178	0.65532241	0.161646616	4.054043485	5.03399E-05	0.000981707
SLU7	2832.395756	0.258164428	0.063688765	4.053531683	5.04502E-05	0.000982818
IFT80	2342.238394	-0.826827338	0.20406265	-4.051830839	5.08184E-05	0.000986683
PLXN B3	14055.30359	-0.78965783	0.194895611	-4.051696321	5.08476E-05	0.000986683
MAN 2A2	10870.15281	-0.628056682	0.155019337	-4.051473142	5.08962E-05	0.000986683
THO C6	1023.788307	0.714834768	0.176442258	4.051380759	5.09163E-05	0.000986683
HIC1	433.1122903	0.937849093	0.231454378	4.051982519	5.07855E-05	0.000986683
TRPV6	301.9301748	-1.61639784	0.399081612	-4.050293957	5.11533E-05	0.000989197
RPS27L	4585.829893	0.898316496	0.221785229	4.050389198	5.11325E-05	0.000989197
C1QTNF3	614.4024612	-0.690473473	0.170534627	-4.048875503	5.14643E-05	0.000994167
ATP1B3	4229.00513	0.525397379	0.129851329	4.046145582	5.20679E-05	0.001004773
ETV3L	30.69218587	2.511084492	0.620721139	4.045430926	5.2227E-05	0.001005737
PTRH1	821.3057801	0.712324885	0.176076767	4.045535908	5.22036E-05	0.001005737
CDI51	7103.243579	0.932005492	0.23043492	4.044549715	5.24238E-05	0.001008474
AP5Z1	3375.561113	0.535121877	0.132329131	4.043870557	5.2576E-05	0.001010346
TANC1	2295.255012	-0.760070149	0.187985062	-4.043247595	5.27159E-05	0.001010945
DN HD1	1121.294257	-0.806535259	0.199477288	-4.043243545	5.27168E-05	0.001010945
CD59	22984.48871	0.563023193	0.139301801	4.041750985	5.30536E-05	0.001016345
ZNF862	1782.480817	-0.397365711	0.098379744	-4.039100868	5.36565E-05	0.001026828
ZPR1	2239.286704	0.398711741	0.098721937	4.038734985	5.37402E-05	0.001027364
TXN DC11	1617.219705	0.393278859	0.097463498	4.03513999	5.45698E-05	0.001042141
PLEKHA7	932.7759273	-0.663731404	0.164548394	-4.033654718	5.4916E-05	0.001047668
CCT8	4429.609313	0.388224807	0.096406187	4.026969853	5.65003E-05	0.001075665
AC099850.2	53.44120268	1.699905262	0.422125912	4.027009988	5.64906E-05	0.001075665
TRIM62	1043.414107	-0.553969873	0.137583045	-4.026439973	5.66277E-05	0.001076978
BCL7C	3451.948238	0.833013323	0.206908769	4.025993319	5.67353E-05	0.001077912
ESPN	160.5297139	1.463653891	0.363665872	4.024721607	5.70428E-05	0.001082637
N DU FC2	5764.529405	0.475904733	0.118262782	4.02412936	5.71865E-05	0.001084249
HEXIM2	457.9702135	0.599510778	0.149002997	4.023481347	5.73441E-05	0.00108612
VASH1 NHLRC4	457.9702135 6665.181411 37.11987692	-0.540456302 -0.978535924	0.149002997 0.134338787 0.243402453	-4.023084562	5.73441E-05 5.74409E-05 5.81392E-05	0.001086835 0.001098921
ZNF830 RABIF	715.5541654 963.1565847	0.36393052 0.30570224	0.243402453 0.090602422 0.082344767	-4.020238543 4.01678578 4.014465463	5.89973E-05 5.95807E-05	0.001098921 0.001113997 0.001123861
C1orf127 ELOB	78.73466865 13485.26042	1.416629798 0.881031799	0.352990308 0.219554399	4.013225766 4.012817805	5.98946E-05 5.99982E-05	0.001123661 0.001128627 0.001129425
VAX1 MRPL37	236.1190824 2815.170227	1.238454826 0.531709017	0.308675117 0.132535498	4.012162817 4.012162817 4.011823443	6.0165E-05 6.02516E-05	0.001129425 0.001131409 0.001131882
MRPS6 ACP6	1970.533537 1505.953111	0.483538048 0.617202562	0.120558542 0.15389946	4.010815326 4.010427076	6.05094E-05 6.0609E-05	0.001131882 0.001135568 0.00113628
TMEM203	1811.459696	0.372489594	0.09289818	4.009654392	6.08077E-05	0.001138846
DSC2	571.3258336	0.808966446		4.008877436	6.10081E-05	0.001141439
P2RX4	1800.44092	0.728373732	0.181781996	4.006852969	6.15331E-05	0.001147767
PLAUR	2422.805416	1.246965765	0.311198064	4.006984331	6.14989E-05	0.001147767
PSMC1	4605.517444	0.456927177	0.114022974	4.007325557	6.14102E-05	0.001147767
PCGF1	650.1106214	0.486128084	0.121368892	4.0053763	6.19188E-05	0.001153794
CCDC9	1137.724407	0.468426014	0.116986414	4.00410609	6.22524E-05	0.001158838
SERPIN B10	20.40257268	1.343125309	0.335488215	4.003494752	6.24136E-05	0.001160666
PHYH	1383.647989	0.513414305	0.128257645	4.002991845	6.25465E-05	0.001161964
STARD9	2110.689871	-0.865211386	0.216311835	-3.999833784	6.3387E-05	0.001173812
DAPK3	3933.580256	0.750714915	0.187729041	3.998927985	6.363E-05	0.001173812
MRPL55	2321.793077	0.663405925	0.165888982	3.999095761	6.3585E-05	0.001173812
SUGCT	204.109399	1.026433541	0.256652541	3.999311817	6.35269E-05	0.001173812
OAZ1	27148.3388	0.49748119	0.124383896	3.999562689	6.34596E-05	0.001173812
NUDT14	1641.243729	0.772360312	0.193093678	3.999925431	6.33624E-05	0.001173812
GPN2	1618.536478	0.29357353	0.073387948	4.000296202	6.32632E-05	0.001173812
MRPL14	1288.209225	0.64015368	0.160111562	3.998172716	6.38334E-05	0.00117521
ABCF3	2895.359558	0.326301641	0.081607994	3.998402921	6.37713E-05	0.00117521
S100PBP	1269.884164	-0.324228281	0.081109741	-3.997402502	6.40414E-05	0.00117682
L3MBTL1	986.4579886	-0.710248179	0.177695759	-3.996990046	6.4153E-05	0.00117682
FUT7	30.55040753	1.440030404	0.360286449	3.996904155	6.41763E-05	0.00117682
ZDHHCS	2652.503649	0.457073389	0.114351088	3.99710574	6.41217E-05	0.00117682
ZNF707	660.1738638	0.587474425	0.147018472	3.995922537	6.44428E-05	0.001177023
PIGV	795.4156874	0.447710459	0.11204177	3.995924555	6.44423E-05	0.001177023
RN F181	3958.490427	0.739626899	0.18508853	3.996070957	6.44024E-05	0.001177023
CRH	116.8564968	2.130275271	0.533045678	3.996421618	6.43072E-05	0.001177023
SH2D2A	129.9801239	1.273342167	0.318697673	3.995454862	6.45702E-05	0.001178182
HMCES	2031.046678	0.465066472	0.116410719	3.995048538	6.4681E-05	0.001179037
PPY	7.134727195	2.549087503	0.638252969	3.993851381	6.50086E-05	0.001183838
JPH2	565.7672026	-1.379116576	0.345429218	-3.992472277	6.5388E-05	0.001189571
ALDH3B1	1708.992561	0.844446068	0.211540014	3.991897562	6.55467E-05	0.001191282
SMIM29	4481.141205	0.601474596	0.150695744	3.991317731	6.57072E-05	0.001191848
TNFRSF12A	411.296352	0.612094854	0.153349669	3.991497726	6.56573E-05	0.001191848
	3632.263731	1.319198549	0.330544574	3.990985336	6.57993E-05	0.001192346
IL10RB	1288.140699	-0.527619048	0.132249934	-3.989560026	6.6196E-05	0.001196741
	1487.157234	0.671171358	0.168238073	3.989414214	6.62367E-05	0.001196741
PHETA1	675.6872222	0.537512755	0.134733231	3.989459385	6.62241E-05	0.001196741
MAU 2	3504.608046	-0.439411792	0.110179962	-3.988127991	6.65967E-05	0.001197377
GG N	180.0433728	0.990274102	0.24829675	3.988268475	6.65573E-05	0.001197377
DPM2	180.0433728	0.990274102	0.24829675	3.988268475	6.65573E-05	0.001197377
	2962.098722	0.669641333	0.167901882	3.988289624	6.65514E-05	0.001197377
	5210.25278	0.719344508	0.18036392	3.988294923	6.65499E-05	0.001197377
MMP24OS PRG 2 AHCY	14.2920142	2.266517543	0.18036392 0.568261524 0.128451812	3.988511357	6.64892E-05	0.001197377
HSDL1 MG AM	4677.617451 1521.01266 112.9874204	0.511518071 0.287338969 1.468509631	0.128451812 0.072165411 0.368806545	3.982178725 3.981671618 3.98178842	6.82864E-05 6.84323E-05 6.83987E-05	0.001226559 0.001226788 0.001226788
HERPU D1 MGPR	4597.155749 6304.024736	-0.395701185 0.525591186	0.368806545 0.099407385 0.132070268	3.981/8842 -3.980601515 3.97963291	6.83987E-05 6.87411E-05 6.90218E-05	0.001226788 0.001231127 0.001234953
FMO1 TMEM102	12.30908521 184.7684035	-1.801499139 0.926826932	0.452905003 0.23300809	-3.977653434 3.977659879	6.95987E-05 6.95968E-05	0.001234953 0.00123687 0.00123687
STC2 RAE1	673.0276788 1503.933378	1.711146911 0.328380363	0.43018774 0.082548515	3.977674746 3.978028726	6.95925E-05 6.9489E-05	0.00123687 0.00123687 0.00123687
N DU FAF4 PSTPIP1	1142.543731 599.9222363	0.559619971 0.922613731	0.140663508 0.231903949	3.978430351 3.978430447	6.93717E-05 6.93717E-05	0.00123687 0.00123687 0.00123687
MYDG F	3783.616556	0.692571986	0.17405622	3.979013148	6.92019E-05	0.00123687
ACOT9	1208.455572	0.494653435	0.124425121	3.975510996	7.02283E-05	0.001246857
HSPB2	482.0115378	0.958744875	0.241300095	3.973246991	7.08995E-05	0.001257561
	134.9785199	1.455800874	0.366741226	3.969558831	7.20058E-05	0.001275957
KLF7	1711.253792	-0.479531669	0.120834412	-3.968502532	7.23257E-05	0.001276715
GATA3	86.49052407	1.769031187	0.445757933	3.968591597	7.23257E-05	0.001276715
ORAI2	2814.887378	0.472541663	0.119066908	3.968706932	7.22637E-05	0.001276715

PSCA	44.84805439	1.232535124	0.310562472	3.968718807	7.22601E-05	0.001276715
AMIG 02	641.556643	0.933435224	0.235260908	3.967659705	7.25819E-05	0.001280011
ATP6VDD1 LBX2	8919.173325 67.61960212	0.531431646 1.393421152	0.133963035 0.351238444	3.96700212 3.967165823	7.27823E-05 7.27324E-05	0.001281094 0.001281094
CNTRL	912.3018296	-0.564919307	0.142502052	-3.964288922	7.36151E-05	0.001294515
PCNA UROD	4318.577346 5471.585917	0.991174092 0.566422961	0.250055937 0.14292318	3.963809474 3.963128718	7.37631E-05 7.39739E-05	0.001295882 0.001298347
ZNF524 TMEM147	1194.197843	0.727620676 0.562065788	0.183681681	3.961313238	7.45387E-05	0.001307015
TMEM147 W DR59	4218.104809 2390.194819	-0.283186815	0.141940814 0.071539095	3.959860252 -3.958490297	7.49936E-05 7.5425E-05	0.001313743 0.001320004
ACTR8	985.4904183	0.277010622	0.069982733	3.958270973	7.54943E-05	0.001320004
FOXL1	839.3035788 72.74697823	0.761903424 1.271245273	0.19250919 0.321231278	3.95775093 3.957414355	7.56588E-05 7.57654E-05	0.001321626 0.001322236
PF4V1	9.254141129	2.555359957	0.645840428	3.95664292	7.60104E-05	0.001325256
MIF PRR4	24456.18003 283.1516058	0.793319647 -0.865228548	0.200515131 0.218756331	3.956407903 -3.955216044	7.60852E-05 7.64655E-05	0.001325306 0.001329912
SQOR	1723.192414	0.864792062	0.218650888	3.955127141	7.6494E-05	0.001329912
PRO M2 PSEN 2	159.0165983 1143.901582	-0.711146522 0.572680838	0.179860522 0.144869063	-3.953877784 3.95309271	7.68947E-05 7.71475E-05	0.00133562 0.001338749
SLC6A2	7.392239164	-1.66326597 0.334363833	0.420900944	-3.951680304 3.951385323	7.76044E-05	0.00134541
FTSJ1 DGUOK	1449.935176 2302.438745	0.534297885	0.084619394 0.135233203	3.951385323	7.77001E-05 7.78458E-05	0.001345804 0.001347061
CTTN BP2	1594.876371	-0.875849096	0.221718722	-3.950271255	7.80627E-05	0.001348282
CTXN D2 VASP	8.142851828 2627.766797	2.954611307 0.78925694	0.747916365 0.199837862	3.950456821 3.94948651	7.80022E-05 7.8319E-05	0.001348282 0.001350179
CAMK1	2502.617046	0.750485484	0.190013646	3.949639939	7.82688E-05	0.001350179
TMEM52 PI15	58.96680357 69.13833544	1.384700063 -0.920293709	0.350677633 0.233098754	3.948640954 -3.948085059	7.85961E-05 7.87788E-05	0.00135369 0.001355569
MACF1	20723.4705	-0.599923994	0.152042857	-3.945755871 3.945792432	7.95486E-05	0.001367539
TMEM214 MTX1	2823.524789 1836.60708	0.389529332 0.560233877	0.098732689 0.1420754	3.945292432 3.943215197	7.97026E-05 8.03965E-05	0.00136891 0.001374421
BCKDK	3020.473666	0.45246618	0.114739201	3.943431508	8.03239E-05	0.001374421
HBEG F NECTIN 2	2169.585551 3141.014287	0.884573022 0.801646403	0.224311305 0.203277821	3.9435062 3.943599949	8.02989E-05 8.02675E-05	0.001374421 0.001374421
N ME2	11120.90617	0.62404245	0.158235064	3.943768423	8.02111E-05	0.001374421
LRP10 MPG	10063.36884 2210.10711	0.727250101 0.582670114	0.18448473 0.14786775	3.942061229 3.94048138	8.07843E-05 8.13183E-05	0.001379773 0.001387606
CLPTM1L	3487.994241	0.414319227	0.105170734	3.939491633	8.16544E-05	0.001390767
SURF4 ZNF888	7892.046721 192.8625901	0.451489927 0.507535166	0.114601754 0.128859627	3.939642396 3.938667027	8.16032E-05 8.19355E-05	0.001390767 0.001391696
P2RY6	388.8868717	1.252533777	0.3180012	3.938770598	8.19002E-05	0.001391696
PPP1R3C SLAIN1	1520.389005 12737.67208	0.846933166 -0.85681845	0.215021309 0.217589344	3.93883365 -3.937777626	8.18787E-05 8.22398E-05	0.001391696 0.001394926
CABYR	408.5491165	0.975963998	0.247867147	3.937447992	8.23528E-05	0.001394926
PTK6 NRBP1	24.65326571 4355.693913	0.832003481 0.377389032	0.211304338 0.095855851	3.937465225 3.937047421	8.23469E-05 8.24903E-05	0.001394926 0.001395972
METTL27 DHDDS	161.0972311	1.14331743	0.290427891	3.936665394	8.26217E-05	0.001396913
POC1B	1672.747822 1194.938416	0.322667532 -0.716247029	0.081969424 0.182052995	3.936437707 -3.934277644	8.27001E-05 8.34473E-05	0.001396957 0.001406999
TRIM25	2134.928983 2755.0273	0.628024371 0.78881133	0.15962586 0.200508404	3.934352312 3.934056201	8.34213E-05 8.35242E-05	0.001406999 0.001407009
NEK11	2/55.02/3 774.2785967	-0.769816912	0.200508404	-3.934056201 -3.932912292	8.35242E-05 8.39229E-05	0.001412433
SURF2	1243.736134	0.764592007	0.19447527	3.931564194	8.4395E-05	0.001419083
ZN F280D PSMD4	1040.057507 7584.56346	-0.623824173 0.558986721	0.158801258 0.142296617	-3.928332681 3.928320528	8.55368E-05 8.55412E-05	0.001435736 0.001435736
AMDHD2	3321.80336	0.731834867 0.856208467	0.186400727	3.926137396	8.63209E-05	0.001447504
MELTF SDHAF2	1438.973675 1318.019068	0.856208467	0.218162937 0.136946462	3.924628438 3.924190877	8.68637E-05 8.70217E-05	0.001455283 0.001456606
VKORC1	3792.811899	0.724910714	0.184793205	3.922821258	8.75181E-05	0.001463585 0.001464875
PPM1F	3348.639545 2559.620598	-0.60094314 0.472123816	0.153208387 0.120379871	-3.922390623 3.92194986	8.76747E-05 8.78353E-05	0.001466228
GARS B3GNT7	4738.137199 1167.136041	0.521341074 0.992682408	0.132943821 0.2532329	3.921514141 3.920037279	8.79943E-05 8.85353E-05	0.001467554 0.001475241
SLC3A2	10679.48757	0.531013525	0.2532329	3.920037279	8.90091E-05	0.001475241
CIB2	874.6609177	0.591541904	0.150971593 0.225629608	3.918233168	8.92004E-05	0.001483641
IP6K3 TAL1	1082.076704 434.5808793	-0.88397301 -0.753408102	0.225629608	-3.917805894 -3.917377296	8.93586E-05 8.95176E-05	0.001484932 0.001486234
UBEZZ	5302.953561	0.35062244	0.089544255	3.915632989 3.914652411	9.01673E-05	0.001495674
TAPBP	264.3029169 8873.685382	1.046383327 0.698816343	0.267299167 0.178512543	3.914662416	9.05345E-05 9.05308E-05	0.001499066 0.001499066
ZNF511-PRAP1 FGF5	13.99067751	3.29810003 1.417932965	0.842699916 0.362289358	3.913730105 3.913813457	9.08812E-05 9.08498E-05	0.001502108 0.001502108
CTSK	40.1546547 746.1835902	0.869539914	0.362289358	3.913813457 3.913472351	9.09783E-05	0.001502108
SUSD2 ARMCS	898.6236079	1.149233405 0.688539896	0.293748684	3.912301466 3.911983694	9.14207E-05	0.001508319
DRAXIN	1667.437112 934.6456117	1.131649567	0.176007865 0.289444735	3.911983694	9.15411E-05 9.24009E-05	0.001508954 0.001521766
PANK2	1634.243364	0.294251429 -0.249155451	0.075265656	3.909504618	9.24856E-05	0.001521801
RBM19 GLE1	1620.701967 1536.655778	-0.249155451 0.397754393	0.063739782 0.101762455	-3.908947369 3.908655647	9.26992E-05 9.28111E-05	0.001523954 0.001524435
CYTL1	219.9912151	-0.756851855	0.193706303	-3.907213361	9.33667E-05	0.001530832
HLX TMEM208	393.6142004 2024.396681	0.955047735 0.574598697	0.244423339 0.147262713	3.907350817 3.901861426	9.33136E-05 9.54558E-05	0.001530832 0.001563693
QSOX1 WNT4	4387.126283 115.5149636	0.534827883 1.006192295	0.137131041 0.257988691	3.900122683 3.900141097	9.6144E-05 9.61366E-05	0.001565227 0.001565227
SLAMF8	1047.192931	1.328906779	0.340702813	3.900486668	9.59995E-05	0.001565227
LILRB2 LRFN 4	1150.9799 1986.711328	1.229915536 0.519589409	0.31530539 0.133197325	3.900712052 3.900899733	9.59102E-05 9.58358E-05	0.001565227 0.001565227
STK40	3791.774473	0.506651072	0.129879614	3.900928385	9.58245E-05	0.001565227
TENT5C TNFAIP8	154.2083981 384.2060737	1.051403983 0.96064225	0.269496826 0.246348781	3.901359426 3.899521024	9.5654E-05 9.63832E-05	0.001565227 0.001566354
MU C12	97.03984622	1.243240929	0.318810341	3.899625477	9.63416E-05	0.001566354
APO BEC3F DTX2	236.5941881 891.747994	0.932749872 0.692098612	0.239221061 0.177551664	3.899112685 3.898012538	9.65458E-05 9.69854E-05	0.001567615 0.001570601
CCL5	1057.178913	1.499373258	0.384633144	3.898190473	9.69142E-05	0.001570601
REEP2	7528.470617	0.834269102	0.214011504	3.898244186 3.895886147	9.68927E-05	0.001570601 0.001583055
TXN RD2	1503.955962	0.548296633	0.140737335		9.78403E-05	
EDF1	1503.955962 15242.80289	0.548296633 0.834624764	0.214257898	3.895421231	9.80282E-05	0.001584704
	1503.955962	0.548296633				
EDF1 STK3 USB1 GSPT1	1503.955962 15242.80289 644.8912313 2390.336812 5371.111022	0.548296633 0.834624764 -0.468233425 0.461461714 0.360281858	0.214257898 0.120244267 0.118511823 0.092535875	3.895421231 -3.894018705 3.893803187 3.89342898	9.80282E-05 9.8597E-05 9.86847E-05 9.88371E-05	0.001584704 0.001592502 0.001592523 0.001593587
EDF1 STK3 USB1	1503.955962 15242.80289 644.8912313 2390.336812 5371.111022 462.4824504	0.548296633 0.834624764 -0.468233425 0.461461714	0.214257898 0.120244267 0.118511823	3.895421231 -3.894018705 3.893803187 3.89342898 3.893020648	9.80282E-05 9.8597E-05 9.86847E-05	0.001584704 0.001592502 0.001592523
EDF1 STK3 USB1 GSPT1 MITFMT PHLDB1 PPP1CA	1503.955962 15242.80289 644.8912313 2390.336812 5371.111022 462.482259 20372.98772 5322.593187	0.548296633 0.834624764 -0.468233425 0.461461714 0.360281858 0.417693215 -0.657809065 0.539204863	0.214257898 0.120244267 0.118511823 0.092538875 0.1077292833 0.169043409	3.895421231 -3.894018705 3.893803187 3.89342898 3.893020648 -3.891361809 3.88980198	9.80282E-05 9.8597E-05 9.8684TE-05 9.88371E-05 9.9003TE-05 9.96832E-05 0.000100252	0.001584704 0.001592502 0.001592523 0.001593857 0.001594877 0.00160442
EDF1 STK3 USB1 GSPT1 MIFMT PH.DB1	1503.955962 15242.80289 644.8912313 2390.336812 5371.111022 462.4824504 20372.98772	0.548296633 0.834624764 -0.468233425 0.461461714 0.360281858 0.417693215 -0.657809065	0.214257898 0.120244267 0.118511823 0.092535875 0.107292833 0.169043409	3.895421231 -3.894018705 3.893803187 3.89342898 3.893020648 -3.891361809	9.80282E-05 9.8597E-05 9.86847E-05 9.88371E-05 9.90037E-05 9.96832E-05	0.001584704 0.001592502 0.001592523 0.001593587 0.001594877
EDF1 STK3 USB1 GSPT1 MIFMT PH.OB1 PPPICA SSR4 CA1 RAC2	1503.955962 15242.90038 644.8912313 2990.336812 5371.11022 462.482450 20372.98772 5322.593187 7338.255531 18.59316526 1133.053524	0.548296633 0.83862745 -0.468233425 0.4681461714 0.360231858 0.417693215 -0.657699065 0.73428863 1.717230895 1.1128100683	0.214257898 0.120244267 0.118511823 0.092535875 0.107292833 0.169043409 0.138613781 0.180939306 0.441715997	3.895421231 -3.894018705 3.893803187 3.89342888 3.89342088 -3.891361809 3.889960198 3.888706605 3.88771567 3.887140699	9.80282E-05 9.8597E-05 9.86847E-05 9.8837IE-05 9.90037E-05 9.96832E-05 0.000100252 0.00010078 0.000101199	0.001584704 0.001593502 0.001593502 0.001593587 0.001593687 0.00160442 0.001612174 0.001612476 0.00162406
EDF1 STK3 USB1 GSPT1 MITFMT PH.DB1 PPPICA SSR4 CA1	1503.955962 15242.80289 644.8912313 2390.336812 5371.111022 462.4824506 2037.98772 5322.593187 7338.255531	0.548296633 0.834624764 0.468233432 0.461461714 0.360281858 0.417693215 -0.657809065 0.539204863 0.701488865 1.717290895	0.214257898 0.120244267 0.11823 0.092535875 0.107292833 0.169013409 0.138613781 0.180391380	3.895421231 -3.894018705 3.89303187 3.893020648 -3.8913518199 3.88980198 3.887771567 3.887771567	9.80282E-05 9.8597E-05 9.8684TE-05 9.8837E-05 9.90037E-05 9.96832E-05 0.000100252 0.000100169	0.001584704 0.001592502 0.001592502 0.0015935323 0.001593837 0.001594877 0.001664424 0.001612174 0.0016124076
EDF1 57K3 USS11 GSP71 MTFAMT PPLOB1 PPP1CA SSRA CC1 ANC2 RPUS03 GBA ELF2	1503 95505 (15242 80128) 644 8912313 2903 316612; 5371 11022 462.4824504 200372-89772 5322.593187 7338.755531 18.393165324 1333.765356 4872.89127 1333.896637	0.548296533 0.834624764 0.468233425 0.4451637164 0.360281858 0.417692215 0.657890906 0.539204863 0.701488861 1.717208083 0.411951256 0.41951256 0.539204863 0.41951256	0.214257898 0.13024427 0.11831823 0.092538975 0.1077292833 0.109034309 0.138613781 0.109034309 0.418613781 0.109034309 0.418613781 0.109034309 0.419034309 0.419034309 0.419034309 0.419034309 0.419034309 0.419034309 0.419034309 0.419034309 0.419034309 0.419034309	3.895421231 -3.83401870 -3.8380187 -3.8312868 -3.8312868 -3.83151800 -3.83870600 -3.83771567 -3.83771567 -3.8378383 -3.831838383 -3.8318383 -3.8318383 -3.8318383 -3.8318383 -3.8318383 -3.8318313131	9.80782E-05 9.8587E-05 9.8583TE-05 9.8583TE-05 9.853TE-05 9.9033TE-05 0.000100352 0.000100156 0.00010169 0.000101457 0.000101859 0.000104557	0.001584704 0.001592522 0.001592522 0.001593527 0.001593527 0.001594377 0.001604247 0.001612174 0.001612174 0.001612174 0.001612076 0.001624076 0.001626888 0.001639399 0.001666233
EDF1 STN3 USB1 GSPT1 MIFFME PPIC DB1 PP	1503 955962 15242 80738 644 8912313 2990 316812 5371.11102 462.4824504 20372 83772 5322.593187 7338.255531 18.59316526 1133.056369 4877.860123 1338.396632 1338.396632 8.088917417	0.54829631, 0.83462476 0.46233425 0.4616174 0.36028180 0.417693215 0.537809065 0.539048863 1.71720085 1.12810068 0.41195126 0.632790912 0.632790912	0.214257898 0.17024457 0.181511823 0.092538577 0.107228813 0.169034009 0.138013781 0.169034009 0.441715997 0.290213409 0.166021263 0.163001283 0.1263001381 0.1263001381 0.1263001381	1.895421231 -1.89401870 -3.89393187 -3.89342888 -3.8936189 -3.89393189 -3.88376609 -3.88771567 -3.8871609 -3.8858688 -3.8810019 -3.88052185 -3.88052185 -3.88052185 -3.88052185 -3.88052185 -3.88052185 -3.88052185 -3.88052185	9.807821 C5 9.83978 C5 9.888372 C5 9.88871 C5 9.88871 C5 9.90812 C5 0.000100782 0.000100782 0.000101169 0.000101557 0.000101577	0.00158/700 0.00159/202 0.001599/232 0.001599/337 0.00159/3877 0.00150447 0.0016102447 0.0016102447 0.00163888 0.00163888 0.00163988 0.001666278
EDF 1 5 TK3 US SH G S PT 1 MTP-MT PP-L CB1 PPP-LCA 5 SRA CA1 RAC2 RPUS CB GBA ELF2 GATA1 HA-AOQB2 ETHE 1	1503 95505 (15242 8028) 644.8912313 2903 136612 5371.111022 462.4824504 20372.89772 5322.993187 7338.25533 18.39316524 1338.205366 4872.84012 1338.05365 1338.0556 1338.05	0.548296533 0.834624764 -0.468233425 0.468123425 0.4681233425 0.45769215 -0.657890965 0.539204863 0.701488863 1.777290895 1.128100883 0.411951266 0.632789921 -0.50389533 3.01968731 -1.481056107 0.617280921	0.214257898 0.13024427 0.11831823 0.092538975 0.107292833 0.169034209 0.138613781 0.169034209 0.441715997 0.290213494 0.166012163 0.163010183 0.12983501 0.772215925 0.318183031	3.895421231 -3.89401870 -3.8930187 -3.8930187 -3.8930268 -3.8919180 -3.89590198 -3.88771567 -3.887771567 -3.887891019 -3.8959813 -3.8959831 -3.8959813 -3.8959831 -3.89598831 -3.89598881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.89588881 -3.895888	9.80782E-05 9.8597E-05 9.8583TE-05 9.8583TE-05 9.95371E-05 9.90037E-05 0.000100352 0.000101557 0.000101437 0.000101457 0.00010459	0.001584704 0.001582523 0.001592523 0.001592523 0.001593527 0.001594377 0.00160422 0.001612174 0.001612477 0.00162407 0.00162408 0.001639309 0.0016662239 0.001666239
EDF 1 STK3 USB1 GSPT1 MITHAT PPPLOB: PPPLOC SSSM COL RUC2 RUC2 RUSDB GBAA ELF2 GATAT H-A-OQUZ	1503.95502.1 1524.280289 644.8912313 2393.336612.1 5371.11022 462.482450.2 20372.98772 5322.593187 7338.255331 18.93915522 1133.05392.4 1338.705392.4 1338.386623.2 1338.386623.2 1358.386623.2 1358.386623.2	0.54829631, 0.83462476 0.46233425 0.46146174 0.36028180 0.417693215 0.557800065 0.53900065 0.53900065 0.530208863 1.71720899 1.128105820 0.632790912 0.53285053 3.03968713 1.481058207 0.617280925 0.43353653	0.144257808 0.130244257 0.118511823 0.092515875 0.107229233 0.109034309 0.13861781 0.109034309 0.0403175097 0.240213494 0.106011013 0.15931010 0.778215925 0.38183031	1.895421231 -1.89401870 -1.89401870 -1.89303187 -1.89303187 -1.89303187 -1.8930318 -1.8930318 -1.8930318 -1.88714009 -1.88714009 -1.88718031 -1.887180	9.80782F.OS 9.83578 CO 9.82837E.OS 9.83871E.OS 9.9037E.OS 9.9037E.OS 0.00100725 0.00010726 0.000101169 0.000101547 0.000104359 0.000104359 0.000104359	0.001584704 0.001592523 0.001592523 0.001593527 0.001593587 0.00159477 0.00159477 0.00159477 0.001519247
EDF1 5703 US81 65971 MITMI PPLOBI PPPLOB 5584 CAL ROC2 ROUGH ROC2 GBA £LF2 GATAL HLACGE2 ETHEI HLACGE2 ETHEI HLACGE2	1503 955962 15242 80738 644 8912313 2903 15612 5371.11102 462.4824504 20372 83772 5322.593187 7338.255531 18.59316526 1133.65265 4872.860123 18.59316526 13.505165 4872.860123 1.505165 1.5051	0.548296533 0.834624764 -0.468233425 0.468123425 0.4681233425 0.45769215 -0.657890965 0.539204863 0.701488863 1.777290895 1.128100883 0.411951266 0.632789921 -0.50389533 3.01968731 -1.481056107 0.617280921	0.214257898 0.17024457 0.118511823 0.092535875 0.10722813 0.169034309 0.138613781 0.168031006 0.441715997 0.20213494 0.106012163 0.128031006 0.7782319525 0.318183313 0.13993272 0.11659734	3.895421231 -3.89401870 -3.8930187 -3.8930187 -3.8930268 -3.8919180 -3.89590198 -3.88771567 -3.887771567 -3.887891019 -3.8959813 -3.8959831 -3.8959813 -3.8959831 -3.89598831 -3.89598881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.8958881 -3.89588881 -3.895888	9.80782E-05 9.8597E-05 9.8583TE-05 9.8583TE-05 9.95371E-05 9.90037E-05 0.000100352 0.000101557 0.000101437 0.000101457 0.00010459	0.001584704 0.001592732 0.001592732 0.001592732 0.001592737 0.001592747 0.001512743

RILPL2	1357.076542	0.642780379	0.165845689	3.875773814	0.000106286	0.001688579
NUDT19	554.1002677	0.44171364	0.114006348	3.8744653	0.000106859	0.001696215
SLC50A1	902.0292301	0.630593555	0.162775138	3.874016411	0.000107056	0.001697882
TDRD6	135.0231321	-0.958404697	0.247515844	-3.872094335	0.000107904	0.001709859
CD800LB	56.6219522	1.456232192	0.37625997	3.870282009	0.00010871	0.001721141
ZNF354B	712.5443573	-0.742875341	0.191976116	-3.86962377	0.000109003	0.001722445
NAPRT	2013.196303	0.696837986	0.180086166	3.869469829	0.000109072	0.001722445
TRIMB2 BMS1	711.3803707 1590.18473	0.595500086	0.153893428	3.869561522	0.000109031	0.001722445
TRIM41	5197.812295	0.294304237 -0.472310575	0.076086405 0.122121771	3.868026598 -3.867537866	0.00010972 0.00010994	0.001731185 0.001733174
CYP2D6	129.6512676	-0.916787569	0.237074447	-3.867087246	0.000110143	0.001734894
MRM1	405.0155081	0.580497912	0.150122218	3.866835441	0.000110257	0.001735202
PPFIA1	3431.795828	-0.477749726	0.123566271	-3.866344127	0.000110479	0.001736961
GLRXS	1883.740926	0.41425143	0.107147699	3.866171965	0.000110557	0.001736961
CLDN 23	187.1267393	1.07439609	0.277931281	3.865689692	0.000110776	0.001738914
N DU FS6	4479.031664	0.823645933	0.213164364	3.863900683	0.000111591	0.001750216
TRIM35	1100.419379	0.355985134	0.092137785	3.863617242	0.00011172	0.001750759
VDAC2	5327.794026	0.389330142	0.100779804	3.863176204	0.000111922	0.001752434
CHD2	4639.630147	-0.46419907	0.120206792	-3.86167091	0.000112614	0.001761772
CCDC146	416.7916336	-0.907769096	0.235128936	-3.860728968	0.000113049	0.001767078
SPATA5L1	414.3481891	0.482798953	0.125091435	3.859568426	0.000113587	0.001773986
ATP2A3	437.8032129	0.980914577	0.254261535	3.857896069	0.000114367	0.001784652
ILDR1	23.18495724	1.202523048	0.311826783	3.85638153	0.000115078	0.001792704
CAPG	12691.54901	1.026594097	0.266201149	3.856460051	0.000115041	0.001792704
F5	291.9222083	1.31837956	0.342181244	3.85286916	0.000116742	0.00181709
SNIP1	779.7013584	0.290713174	0.075459965	3.852548495	0.000116895	0.001817936
U BA7	2448.391127	-0.538972021	0.139940697	-3.85143158	0.000117429	0.001824709
TMEM186	490.8399198	0.38629881	0.100342617	3.84979802	0.000118215	0.001835374
KLK4	44.00181989	1.378401533	0.358080191	3.849421357	0.000118397	0.001836651
FBXL15	1820.148267	0.791130976	0.205538454	3.849065518	0.000118569	0.001837774
CCIN	53.47667756	1.408651721	0.366078444	3.847950469	0.00011911	0.001844605
PLEKHHI	18712.99141	-1.093193853	0.284144425	-3.847317615	0.000119418	0.001846272
ICAMI	4350.662527	1.153599746	0.299843938	3.8473339	0.00011941	0.001846272
THBS3	1252.936914	0.501248918	0.130334305	3.845870958	0.000120125	0.001855644
EREG	50.76455787	1.372310138	0.35690684	3.845009351	0.000120548	0.00185906
PRSS36	214.2507133	0.976672823	0.254001698	3.845142896	0.000120482	0.00185906
ARHG AP23	11443.2576	-0.63939676	0.166313939	-3.844516976	0.00012079	0.00186054
SAMMS0	1928.426312	0.42653299	0.110949053	3.844404044	0.000120846	0.00186054
FOXI1	3.525799948	3.65648664	0.95152054	3.842782667	0.000121647	0.001871315
NSUN6	547.6872202	-0.438105486	0.114028728	-3.84206237	0.000122005	0.001873479
CCDC66	617.1686301	-0.432315752	0.112528134	-3.841845917	0.000122112	0.001873479
FDK2	2058.836163	0.78578806	0.204542758	3.841681169	0.000122194	0.001873479
RN PEP	2654.724603	0.604175819	0.157264793	3.841774169	0.000122148	0.001873479
C5orf46	16.19143421	2.46131179	0.640810497	3.840935502	0.000122566	0.001876059
ESRRA	1849.950249	0.502741341	0.130884506	3.841106609	0.000122481	0.001876059
TRPV5	66.22579534	-1.741953585	0.453664004	-3.839743883	0.000123163	0.001883546
ROMO1	3642.771214	0.8074037	0.210286005	3.839550331	0.00012326	0.001883546
ARGLU1	6042.736174	-0.420796698	0.109659214	-3.837312712	0.000124388	0.001896444
	8883.07373	0.574135676	0.149621102	3.837264065	0.000124413	0.001896444
UNC45A	2641.012479	0.425622548	0.11091814	3.837267284	0.000124411	0.001896444
MRPS17	1381.394396	0.6574625	0.171349143	3.836975713	0.000124559	0.001897102
SNRPD3	2162.2365	0.361014309	0.09410178	3.836423811	0.000124839	0.001899799
SLC9A9	1674.743383	-0.885768655	0.230897715	-3.836194981	0.000124955	0.0019
CES3	324.1930266	0.852989107	0.222400217	3.835378934	0.000125371	0.001904748
OXTR	1715.74808	1.227320239	0.320025524	3.835069857	0.000125529	0.001905574
ZSCAN 30	1224.722566	-0.563540997	0.146987965	-3.833926111	0.000126114	0.001912885
ZNF514	1091.652096	-0.47164763	0.123032444	-3.833522389	0.000126321	0.001914453
SNX21	2028.177656	0.434211957	0.113306571	3.832186894	0.000127009	0.001923297
IRG Q	2422.420921	0.466328915	0.121726625	3.830952473	0.000127648	0.001929801
PG AM1	15032.55945	0.420324898	0.109717362	3.830978905	0.000127634	0.001929801
AC240274.1	2611.703441	-0.476378202	0.124358007	-3.830699892	0.000127779	0.0019302
PAX8	148.8465161	1.011316805	0.26404714	3.830061577	0.000128111	0.001933629
HM13	6738.863124	0.623707322	0.16289019	3.829004822	0.000128662	0.001940361
SLC4A11	771.4833859	0.917306623	0.239620239	3.828168379	0.0001291	0.001945373
ZMAT1	1923.132408	-0.818797306	0.213903773	-3.827876873	0.000129253	0.001946087
LUC7L2	3484.762825	-0.359388174	0.093911776	-3.826870185	0.000129783	0.001952465
ASB6	2264.696883	0.342460428	0.089504428	3.826184183	0.000130145	0.00195472
DSC3	38.08107506	1.950245094	0.509701984	3.826245837	0.000130112	0.00195472
CREB5	2604.45952	-0.704970503	0.184290625	-3.825319393	0.000130603	0.001959997
DHRS4L2	1570.555205	0.830157363	0.217037097	3.824956078	0.000130795	0.001961292
GTPBP4	1616.562788	0.318858081	0.08338441	3.823953192	0.000131329	0.001961312
SPRED8	1034.034518	0.983345709	0.257144795	3.824093386	0.000131254	0.001961312
MPZL3 RGL4	139.5086311 17.57131809	0.954345559 1.710670867	0.249550961	3.824251193	0.00013117 0.000131146	0.001961312 0.001961312
LTB	163.68151	1.201158679	0.314064847	3.824556268	0.000131008	0.001961312 0.001961312 0.001961724
C9orf78	3463.872384	0.314226634	0.082178643	3.823701884	0.000131463	0.001965128
KCN K6	582.6665384	0.727675062	0.190337635	3.823075045	0.000131798	
ARIDSA	2456.152985	0.72656493	0.190060793	3.8228028	0.000131943	0.00196571
ENOX1	529.7816224	-0.598027043	0.156459052	-3.822259137	0.000132235	0.001968459
AP2M1	19731.08341	0.452366876	0.11837275	3.821545703	0.000132618	0.00197257
SRXN 1	2298.709616	0.722678106	0.189246223	3.818718776	0.000134147	0.0019937
KIF19	1176.970295	-1.123089939	0.294152227	-3.818056898	0.000134507	0.001997444
SEC61A1	14203.15729	0.660897779	0.173198547	3.815839043	0.000135721	0.00201385
MYLPF	19.47563942	1.087047438	0.284904937	3.8154742	0.000135922	0.002015205
PTGES2	3333.833861	0.597274583	0.156570803	3.814725179	0.000136335	0.00201808
EIF5A	10389.33556	0.50222489	0.131650314	3.814840041	0.000136271	0.00201808
EDDM13	5.767617855	2.118968859	0.555547552	3.814198892	0.000136625	0.002020762
RBM4	3509.118873	0.428686014	0.112402182	3.813858472	0.000136814	0.002021926
TNS2	6531.265877	-0.506241623	0.132774319	-3.812797731	0.000137403	0.002029
NAIF1	414.9343251	0.336810172	0.088351338	3.812168323	0.000137753	0.002032546
VPS25	1865.348629	0.470548945	0.123490685	3.810400308	0.000138742	0.0020455
PREB	2816.595165	0.3328874	0.087368402	3.810157795	0.000138878	0.002045871
W DR70	926.4013291	-0.435251306	0.114268805	-3.809012514	0.000139523	0.00205322
C16orf91	623.3101559	0.541558365	0.142190606	3.808678913	0.000139711	0.00205322
CD28	169.429435	1.773352574	0.46558592	3.808862117	0.000139608	0.00205322
ADA	885.1450643	0.903772219	0.237317431	3.808284182	0.000139934	0.002054861
PKM	61661.25691	0.574411716	0.150876191	3.807172715	0.000140565	0.002062472
GPNMB	19043.70215	1.317217816	0.346050415	3.806433274	0.000140985	0.002065356
SNX33	1272.672567	0.383454922	0.100737758	3.806466714	0.000140966	
SNF8 RPP40	2932.062094 244.1379584	0.383434922 0.559977037 0.581121011	0.100737758 0.147137392 0.152708002	3.805810542 3.805439153	0.000140966 0.000141341 0.000141553	0.002065356 0.002068916 0.002070378
NCF2	1374.453628	1.058687311	0.27828953	3.804265691	0.000142225	0.002078567
RW DD2B	858.6886989	0.418191426	0.109961497	3.803071425	0.000142913	0.002086962
SU SD3	158.6709956	-1.033531814	0.271877732	-3.801458133	0.000143847	
DIP2A	2637.467985	-0.512780082	0.134928095	-3.800395172	0.000144466	0.002106294
PEX1	1176.520861	-0.507285055	0.133511892	-3.799549592	0.000144959	0.002111822
PRSS35	265.328851	1.294730633	0.34078566	3.799252098	0.000145133	0.002112688
ZNF672	1990.831538	0.462611993	0.121788774	3.798478117	0.000145587	0.002117623
C12orf43	1126.988436	0.373361081	0.0983449	3.796445788	0.000146785	0.002133367
TIMM13	3295.218742	0.644468792	0.16981391	3.795147229	0.000147556	0.002142874
RBM34	1816.995333	0.413606445	0.108991828	3.794839043	0.000147739	0.002143848
GLRX	2291.547981	0.724601015	0.190961212	3.794493176	0.000147945	0.002145149
SGK1	10709.12312	-0.602775017	0.158903508	-3.7933399	0.000148634	0.002153447
CCDC137	1502.072851	0.551432663	0.145378458	3.793083722	0.000148788	0.002153978
PHB	6680.447952	0.549906997	0.145010494 0.104613139	3.792187598	0.000149326	0.00216007
CLUH	3700.235951	0.396566335	0.104613139	3.79078898	0.00015017	0.002165472

RPS19	31806.34748	0.778714593	0.205415311	3.790927702	0.000150086	0.002165472
G PAA1	7169.129205	0.493434435	0.130156969	3.791071965	0.000149998	0.002165472
MAFF	6518.981254	0.83317106	0.2197549	3.791365111	0.000149822	0.002165472
AN 09	164.385076	1.902714676	0.50202776	3.790058694	0.000150612	0.002170151
IOCN	368.1175273	-0.639540206	0.168851642	-3.787586547	0.000152118	0.002188992
L3MBTL4	504.8847335	-0.604559224	0.159618647	-3.787522534	0.000152157	0.002188992
CUTA	7696.369382	0.633687471	0.167321187	3.787251828	0.000152323	0.002189669
CEACAM4 RHBDD2	72.88476386 9967.054492	1.63237236 0.582845121	0.431129875	3.786265933	0.000152928	0.002196657
RASSF7	511.4505152	0.675918784	0.154065914 0.178702329	3.783089376 3.782372551	0.000154894 0.000155341	0.00222316 0.002226106
EIF4A1	18490.74319	0.540228672	0.142824025	3.782477584	0.000155275	0.002226106
N PIPB11	350.5303963	-0.521506062	0.137927103	-3.781026719	0.000156183	0.002234721
TRN P1	1156.445044	1.089939582	0.288265679	3.781024457	0.000156184	0.002234721
MYNX	13.19709909	2.077437559	0.549486968	3.780685764	0.000156397	0.002236028
METTL3	2011.644234	-0.368521605	0.097506214	-3.779467899	0.000157164	0.002244459
PA2G 4	6698.800797	0.533490978	0.141158977	3.779362735	0.00015723	0.002244459
SLC26A7	38.79949136	-1.373082436	0.363397394	-3.778459777	0.000157801	0.002250867
ARHS DIA	22343.80432	0.563467642	0.149146703	3.777942335	0.000158129	0.002253804
TRPV1	719.9196934	-0.499975326	0.132358151	-3.777442651	0.000158447	0.002256584
IFN AR1	3594.276288	0.296204602	0.078420506	3.777132016	0.000158645	0.002257654
ZNF717	339.6627206	-0.441006307	0.116798359	-3.775791969	0.0001595	0.002266268
DNA2	169.7438071	-0.834898876	0.221125777	-3.775674139	0.000159575	0.002266268
PARVB	1746.127586	0.602211646	0.15950064	3.775606463	0.000159619	0.002266268
GJBS	149.7778524	2.0042076	0.530986049	3.774501428	0.000160328	0.002274584
TUSC2	3070.105045	0.523771472	0.138790226	3.773835431	0.000160757	0.002278914
SCNN1B	41.93589788	1.873402767	0.496804339	3.770906616	0.000162656	0.002304058
PTTG 1	1094.886069	1.345545691	0.356851381	3.770605244	0.000162852	0.00230507
FAM107B	7282.683759	-0.762609241	0.20227216	-3.770213571	0.000163108	0.002306919
GPR108	3015.246583	0.452225741	0.119962743	3.769718258	0.000163432	0.002307959
KARS	4703.904734	0.423240984	0.112271264	3.76980689	0.000163374	0.002316687
RBM33	2980.58554	-0.439990768	0.116762853	-3.768242687	0.000164401	
ZBTB37	1279.624	-0.690935131	0.183368612	-3.768011997	0.000164553	0.002316687
PSPN	254.1731804	0.607797251	0.161296412	3.768200694	0.000164428	0.002316687
OMA1	4514.224736	0.367040844	0.097396395	3.768525965	0.000164214	0.002316687
	572.3784808	-0.344820792	0.09152361	-3.767561078	0.00016485	0.002319103
SDC4	5982.251749	0.707480877	0.18789177	3.765363837	0.000166307	0.002337808
IMMP2L	262.1904873	-0.641021351	0.170334407	-3.763311015	0.000167678	0.002355294
EMC6	1774.548908	0.539628123	0.143406647	3.76292267	0.000167939	0.00235716
FAM43A	728.6717601	0.926197348	0.246366273	3.759432398	0.000170299	0.002388467
DN PEP	1767.504957	0.396147264	0.105397999	3.758584287	0.000170877	0.002394754
N LRX1	963.6807026	0.529933734	0.141019178	3.757884162	0.000171356	0.002397815
ALG 2	1415.251675	0.473683398	0.126047464	3.757976432	0.000171293	0.002397815
DCAF8	7048.945144	-0.308337949	0.0820648	-3.757249763	0.000171791	0.002400556
KLF5	133.3160044	1.235752671	0.328900946	3.757218358	0.000171813	0.002400556
SLC2A6	1044.728791	0.784351341	0.208778826	3.75685291	0.000172064	0.002402242
GZMA	105.7418325	-1.306193811	0.347786953	-3.755729764	0.000172837	0.002409391
PAQR7		0.590950627	0.157340256	3.755876866	0.000172736	0.002409391
GOLTIA CRI	79.9875575 540.5434832	1.348721969 1.520360847	0.359252302 0.405020033	3.754247261 3.753791721	0.000172736 0.000173863 0.00017418	0.002421863 0.002424438
CDH26	111.1426476	-0.734981986	0.195876629	-3.752269928	0.000175241	0.002435899
ISY1	1191.121193	0.467291436	0.124536936	3.752231681	0.000175267	0.002435899
ZNF263	1789.736043	0.323615047	0.086250595	3.75203263	0.000175407	0.002435998
TTC17	2092.571851	-0.308139455	0.08213852	-3.751461019	0.000175807	0.002437885
MLF2	13442.50582	0.532686313	0.141988543	3.751614751	0.000175699	0.002437885
WWC3	1943.363041	-0.377604154	0.100673824	-3.750767952	0.000176294	0.002441152
EPB41L2	10517.99882	-0.693611358	0.184944692	-3.750371795	0.000176573	0.002441152
PDCD11	1261.559343	0.340065982	0.0906742	3.750416131	0.000176541	0.002441152
MZT2B	7383.857558	0.679766069	0.181248414	3.750466295	0.000176506	0.002441152
AC131160.1	107.2831289	-1.638125103	0.436846536	-3.749886898	0.000176914	0.002442476
VNN1	237.7373146	1.147038942	0.305888477	3.749859923	0.000176933	0.002442476
PN PLA1	14.21243563	1.53453427	0.409293167	3.749230121	0.000177378	0.002446784
PRAP1	26.96077838	2.05792164	0.548949155	3.74883834	0.000177656	0.002448776
ZFHX3	7985.164464	1.196222082	0.319291914	3.746484106	0.00017933	0.002470014
DYNC1LI1	1690.083499	0.245189782	0.06545421	3.745974201	0.000179695	0.002473189
RALG PS1	1424.190805	-0.75659697	0.202013608	-3.745277243	0.000180195	0.002478215
CRN KL1	1282.271278	0.2832676	0.075665732	3.743670924	0.000181351	0.00249226
SPG 11	2468.786341	-0.424938723	0.113551752	-3.742247183	0.000182382	0.002504231
TRMT13	639.9900516	-0.575733862	0.15385344	-3.742092869	0.000182494	0.002504231
ZSW IM6	1559.572246	-0.66865547	0.17871511	-3.741460204	0.000182954	0.002508677
CALHM2	662.5763368	0.568462492	0.151946509	3.741201405	0.000183143	0.002509395
AMBRA1	1384.46019	-0.2716812	0.07262519	-3.740867327	0.000183386	0.002510867
MRPL52	2458.165723	0.717601763	0.191905757	3.739344631	0.000184501	0.002524248
TRMT5 RPL7L1	787.6377527	0.330582999	0.088412709	3.739089116	0.000184688	0.00252494
	4871.330135	0.289027295	0.077303992	3.738840479	0.000184871	0.002525565
PISD MAN 1B1	2393.723566 4889.523228	0.453333034 0.416829013	0.12125864 0.111554129	3.738562752	0.000185075	0.002526483 0.002544769
N U DT22	1814.619432	0.587329953	0.157196295	3.736562843 3.736283702	0.000186553 0.00018676	0.002545709
RP9	769.4763521	0.675340584	0.18077422	3.735823532	0.000187102	0.002546603
SYCE1L	185.4277461	0.947444199	0.253605348	3.735899917	0.000187045	0.002546603
CCDC60	6.98623493	2.065743642	0.552995442	3.735552747	0.000187303	0.002547463
ITPR2	2176.739501	-0.758985147	0.203193124	-3.735289514	0.000187499	0.002548249
FBXO33	776.3441511	0.37044548	0.09920262	3.7342308	0.00018829	0.002557105
THG1L	425.7316676	0.405589666	0.108642179	3.733261527	0.000189016	0.00256508
ERP29	5158.354952	0.490030814	0.131268964	3.733028733	0.000189191	0.002565564
IFI44	1938.717056	-0.591670931	0.158588051	-3.730867023	0.000190822	0.002585777
PRR7	1308.232613	0.597613317	0.160210227	3.730182086	0.000191341	0.002590912
PSMB4	10534.93763	0.496292037	0.133069638	3.729566302	0.00019181	0.002595345
CCDC71L	1344.184649	1.111896322	0.298183013	3.728905654	0.000192313	0.002600249
WRAP53	567.3595789	0.465817559	0.124929272	3.728650232	0.000192508	0.002600977
EID2	884.4236428	0.455264312	0.122118107	3.728065593	0.000192955	0.002605107
KDM6B	1977.838328	0.789809393	0.21188063	3.727614901	0.0001933	0.002607858
IFN AR2	1388.191829	0.397292155	0.106602246	3.72686477	0.000193876	0.002613715
SCO 1	1404.778544	0.245269592	0.06584285	3.725075576	0.000195257	0.002630399
IBA57	546.085515	0.344737876	0.092565084	3.724275537	0.000195877	0.002636826
TXN2	5158.662874	0.489078638	0.131330921	3.72401742	0.000196077	0.002637599
RRP1	2507.405715	0.627390806	0.168510762	3.723149788	0.000196753	0.002644753
ZNF296	166.6666212	0.743352044	0.19974169	3.721566812	0.00019799	0.002659451
ZEB2	14282.45164	-0.85214994	0.229029502	-3.720699433	0.000198672	0.002666659
DN AIA1	2648.016281 8113.211403	-0.587905033 0.342391316	0.158030498 0.092053086	-3.720199831 3.719498503	0.000199065	0.002669995
ATPSPD	5392.404145	0.46171445	0.124176913	3.718198819	0.000200648	0.002687317
MAP4KS	2821.624406	-0.590021136	0.158700545	-3.717826791	0.000200944	0.002689322
PSMG 1	980.2876561	0.425451253	0.114558191	3.713844039	0.000204135	0.002730041
ADG RG 3	79.72013904	1.495836623	0.402905468	3.712624276	0.000205121	0.002741247
POLDIP2	4661.088475	0.31013511	0.083554306	3.711778915	0.000205808	0.002748428
SHBYL1	1456.442117	-0.517436766	0.139452835	-3.710478649	0.000206868	0.002758586
PRICKLE3	273.3150523	0.769156497	0.207291669	3.710503661	0.000206847	0.002758586
ELOA	2477.729206	0.360003574	0.09703826	3.709913753	0.00020733	0.002760753
MET	849.0145243	0.640359327	0.172605336	3.709962517	0.00020729	0.002760753
PRMT5	2161.107817	0.437128039	0.117833661	3.709704286	0.000207501	0.002761043
EGLN2	5372.794921	0.432331641	0.116547009	3.709504379	0.000207665	0.00276123
MEIS1	846.6138614	-0.73300248	0.19761633	-3.709220189	0.000207899	0.002762338
USF1	3272.237493	0.414917543	0.111884706	3.708438414	0.000208541	0.002768882
RAD51C	1015.092786	0.412692172	0.111309666	3.707604092	0.000209229	0.002776018
HEXA	6924.46406	0.632209181	0.170604395 0.101989703	3.705702791	0.000210805	0.002794915
SLC38A7	1637.331825	0.377906154	0.101989703	3.705336363	0.00021111	0.002794938

	951.8468211	0.604373611	0.163102367	3,70548644	0.000210985	0.002794938
RPP21	1499.116616	0.574484675	0.155073871	3.704587189	0.000211735	0.002801198
RPL28 TMEM11	35876.60989 1341.687156	0.790081952 0.485858864	0.213282497 0.131172116	3.704391889 3.703979759	0.000211898 0.000212243	0.002801346 0.002801884
NFE2	62.50510535	1.244381728	0.335954792	3.704015412	0.000212213	0.002801884
PKP4	17195.94948	-0.889386269	0.240203321	-3.702639353	0.000213368	0.002810694
POP4	21.9492871 1932.634	1.566442894 0.428170404	0.423045471 0.115630718	3.702776651 3.70291227	0.000213253 0.000213139	0.002810694 0.002810694
ZC3H11A	5484.007792	-0.398890896	0.107784242	-3.700827586	0.000214897	0.002828818
W DR34 ABTB2	2258.084629 938.5196701	0.794182652 -0.531157247	0.214606961 0.143562341	3.700637891 -3.6998369	0.000215058 0.000215738	0.002828913 0.002833811
CTU2	1201.848838	0.501009511	0.135411013	3.699917	0.00021567	0.002833811
SG SH CEN PBD1	1710.39777 721.3122676	0.453375367 0.345377601	0.1226013 0.093420389	3.697965403 3.69702593	0.000217335 0.00021814	0.002852748 0.002861284
CLN3	2081.657277	0.549567255	0.148669322	3.696574693	0.00021814	0.002864333
PSMD13	4850.78414	0.476712163	0.128967019	3.696388151	0.000218689	0.0028644
PLSCR3 COX8A	1563.971205 7857.549882	0.50156921 0.537270059	0.135700436 0.145394101	3.69615032 3.695267244	0.000218893 0.000219656	0.002865047 0.002872983
BBIP1	1409.832973	-0.487549296	0.131962019	-3.694618346	0.000220217	0.002876727
MIA MFAP1	17.41690508 1471.192837	1.529047199 0.276189293	0.413862709 0.074760264	3.694575926 3.694332744	0.000220254 0.000220465	0.002876727 0.002877442
MRPS11	2134.546358	0.463586109	0.125557747	3.692214292	0.0002231	0.00289947
PDE6B	2166.254844	-0.854170274	0.231378306	-3.691661017	0.000222794	0.002903731
APOL1 AKR1B10	1390.659549 34.39556915	0.985581691 1.569336495	0.26703594 0.425257521	3.690820389 3.690320377	0.000223532 0.000223972	0.002911286 0.002914955
CCDC174	834.2489373	0.292587029	0.079326558	3.688386793	0.00022568	0.002935119
UTP4 MAMDC2	1426.713547 72.66688034	0.455699055 -1.068703568	0.123582035 0.289861079	3.687421524 -3.686950903	0.000226538 0.000226957	0.002944194 0.002944683
LRIG 2	1152.069099	-0.430185473	0.116681311	-3.68684127	0.000227055	0.002944683
MCRIP2	1822.189116	0.659051343	0.178744041	3.687123437	0.000226803	0.002944683
CHMP1A PTK2	4854.065385 8603.829213	0.38123614 -0.618294228	0.10341439 0.167751788	3.686490243 -3.685768342	0.000227368 0.000228014	0.002946672 0.002952962
NDUFS8	5188.909138	0.702730464	0.190699372	3.685017197	0.000228687	0.002959604
ZDHIC11 SELENOM	1278.705257 6424.692196	-0.930752986 0.943729105	0.252647709 0.256184333	-3.683995357 3.683789301	0.000229606 0.000229792	0.002969415 0.002969734
P4HB	18353.02861	0.649702625	0.176388788	3.683355565	0.000230184	0.002972709
WNT8B BAG ALT7	2.425229175 1606.241765	-2.150153782 0.484290778	0.58381959	-3.682907905 3.682732478	0.000230588 0.000230747	0.002975816
B4G ALT7 LPIN 3	1606.241765 643.6653241	0.484290778 0.751613302	0.131503111 0.204114474	3.682732478 3.68231262	0.000230747 0.000231128	0.002975816 0.002978639
OGFR	5572.171384	0.522288111	0.141865499	3.681572436	0.0002318	0.002985214
IMP4 UBL4A	3296.614119 2243.591254	0.335027841 0.321044985	0.091029908 0.087241571	3.680415001 3.679954193	0.000232855 0.000233276	0.002996703 0.003000028
LLGL1	8058.851543	-0.57946953	0.157475334	-3.679747912	0.000233465	0.003000362
INVS GHDC	486.6134206 1920.220348	-0.586622823 0.410135574	0.159477953 0.111514523	-3.678394499 3.677866912	0.000234707 0.000235193	0.003014162 0.003014162
CLTB	6103.216672	0.676509607	0.111314323	3.677881861	0.000235179	0.003014162
TP53I11	2216.58711	0.694679727	0.188880352	3.677882432	0.000235178	0.003014162
TBC1D9B TRIM43B	10721.4241 4.732891805	-0.307271934 2.93854287	0.083550906 0.799205724	-3.677661319 3.676829109	0.000235382 0.000236151	0.003014495 0.003022242
CD96	51.82409591	-1.235437233	0.336168429	-3.675054308	0.000237799	0.003041218
RRP7A ATF5	3898.38173 2090.279233	0.652870664 0.672180471	0.177665505 0.182973224	3.674718197 3.673654846	0.000238112 0.000239106	0.003043112 0.003053693
TAS2R20	19.24587465	-1.073913842	0.292412639	-3.672597213	0.000240098	0.003064239
MRPL36	1175.075728	0.487237929	0.132701143	3.671693543	0.000240949	0.003070844
CISD2 NAV1	1843.54553 4415.784129	0.336760926 -0.533930998	0.091717733 0.145432017	3.671710099 -3.671344229	0.000240933 0.000241278	0.003070844 0.003072497
EHMT1	2105.83476	-0.388406763	0.105798232	-3.671202793	0.000241412	0.003072497
MRPL28 STRN	3922.755265 3012.836235	0.66187382 -0.758259954	0.18030787 0.206608501	3.670798283 -3.670032695	0.000241794 0.000242519	0.003075241 0.003082339
MOB3C	1541.187631	0.57479051	0.156643243	3.669424221	0.000243097	0.003085428
POP7 C15orf39	1478.281637 798.359195	0.481827664 0.763166985	0.13130503 0.208091234	3.669529377 3.667463407	0.000242997 0.000244969	0.003085428 0.003107038
MED9	1285.15205	0.273838141	0.074674399	3.667095365	0.000244303	0.003107038
RFK MRPI 49	1282.514441 2547 139869	0.704291468 0.501259738	0.192072013 0.136738215	3.666809429 3.66583502	0.000245596 0.000246533	0.00311071
YIF1A	2547.139869 3037.268242	0.501259738	0.136738215	3.665838004	0.00024653	0.003118293
TICAM1	856.9039103	0.560136013	0.152833236	3.665014408	0.000247325	0.003126163
IL32 TOM	2649.123375 1344.387856	1.259569896 1.281466902	0.343714501 0.349680816	3.664581779 3.66467602	0.000247743 0.000247652	0.003127162 0.003127162
TAS2R10	5.475866914	-1.575791358	0.430127806	-3.663542171	0.000248751	0.003137739
ATM SSPO	2874.68022 544.1439247	-0.684685968 -1.012669479	0.186922708 0.27652192	-3.66293628 -3.662167106	0.000249341	0.003143022
PTMS	12975.78377	0.752449745	0.205506685	3.661436828	0.000250805	0.003157158
TUFT1 TUBAIC	393.6727062 5506.147513	0.77595492 0.929154328	0.211994455 0.253872878	3.660260449 3.659919628	0.000251959 0.000252294	0.003169524 0.003171578
WNT2	117.5996039	1.084319664	0.296373791	3.658621973	0.0002532594	0.003171578
TMEM40	30.95455549	1.425847326	0.389813205			
PAN 3 TSTA3	1091.88403 1817.316784			3.657770715	0.000254418	0.003193922
CTSZ	1817.316784	-0.463810661 0.550442572	0.126832697 0.150567127	3.657770715 -3.656869819 3.65579514		
	16516.41616	0.550442572 1.005061088	0.150567127 0.274947194	-3.656869819 3.65579514 3.655469526	0.000254418 0.000255314 0.000256386 0.000256712	0.003193922 0.003202982 0.003214244 0.003216139
CDC42EP3 FAM53C		0.550442572	0.150567127	-3.656869819 3.65579514	0.000254418 0.000255314 0.000256386	0.003193922 0.003202982 0.003214244
FAM53C NPIPBS	16516.41616 834.998637 2543.494875 7991.067504	0.550442572 1.005061088 0.724302195 0.338259648 -0.503465142	0.150567127 0.274947194 0.198155377 0.092562895 0.137783243	-3.656869819 3.65579514 3.655469526 3.655223524 3.654376286 -3.654037526	0.00025418 0.000255314 0.000256386 0.000256712 0.000256958 0.000257808 0.000258149	0.003193922 0.003202982 0.003214244 0.003216139 0.003217037 0.003225487
FAM53C N PIPB5 AN KS1A	16516.41616 834.998637 2543.494875	0.550442572 1.005061088 0.724302195 0.338259648 -0.503465142 -0.529331702	0.150567127 0.274947194 0.198155377 0.092562895 0.137783243 0.144864851	-3.656869819 3.65579514 3.655469526 3.655223524 3.654376286	0.000254418 0.000255314 0.000256386 0.000256958 0.000256958 0.000257804 0.000258149	0.003193922 0.003202982 0.0032142444 0.003216139 0.003217037 0.003212528 0.003225228
FAM53C NPIPBS	16516.41616 834.998637 2543.494875 7991.067504 1684.745694	0.550442572 1.005061088 0.724302195 0.338259648 -0.503465142	0.150567127 0.274947194 0.198155377 0.092562895 0.137783243	-3.656869819 3.65579514 3.655469526 3.65523524 3.654376286 -3.654376286 -3.65439637526	0.00025418 0.000255314 0.000256386 0.000256712 0.000256958 0.000257808 0.000258149	0.003193922 0.003202982 0.003214244 0.003216139 0.003217037 0.003225487
FAM53C NPIPBS ANKS1A TBC107 AIDA FKBP10	16516.41616 834.998637 2543.494875 7991.067504 1684.745694 758.6060448 4657.448774 5301.680678	0.550442572 1.005061088 0.724302965 0.33825965 -0.503465142 -0.529331702 0.4139577308 0.748360985	0.150567127 0.274947194 0.198155377 0.092552899 0.137783243 0.144864851 0.11309749 0.10287352 0.204942443	-3.656869819 3.65579514 3.655469526 3.655469526 3.6554376286 -3.65437528 -3.653959195 3.653315403 -3.65276555 3.653566627	0.0025418 0.00255318 0.00255318 0.00256712 0.0025685 0.000257808 0.00025817 0.00025817 0.00025817 0.00025817	0.003193922 0.0032102842 0.003216139 0.003216139 0.00327577 0.003225877 0.003225872 0.003276228 0.003276228
FAM53C N PIPBS AN KS1A TBC1D7 AIDA	16516.41616 834.998637 2543.49875 7991.067504 1684.745596 758.6080448 4657.448774	0.550442572 1.005061088 0.724302195 0.338259648 -0.503465142 -0.529331702 0.413956253 -0.375773086	0.150567127 0.274947194 0.198155377 0.092562895 0.137783243 0.144864851 0.113309749	-3.656869819 3.65579514 3.65579514 3.655469526 3.655223524 3.654376286 -3.65437526 -3.653391503 3.65276565	0.000254418 0.000255314 0.000256386 0.000256958 0.000257808 0.000258149 0.000258147 0.000258217	0.003193922 0.003207982 0.003214244 0.003214393 0.003217037 0.003225487 0.003225427 0.003226228 0.00323226228 0.0032325626
FAMS3C NPIPBS ANKS1A TECLO7 AIDA FKBP10 B3GAT3 PLK3 IMPORT	16516.41616 834.998673 2541.494875 7991.068750 1684.74594 758.608678 4657.448774 5301.680678 5310.33365 1633.60668	0.550442572 1.005061088 0.724302195 0.338279646 -0.503465142 -0.503465142 -0.579331702 0.413956273 0.748350985 0.754055542 0.877127883 0.536619307	0.150567127 0.27864713 0.198153577 0.097552892 0.1317782243 0.148654851 0.113307276 0.102873552 0.208642443 0.157201033 0.238589736 0.146683767	-3.65686819 3.65579314 3.65579314 3.655469326 3.65549326 3.65417326 -3.65314703 3.65314703 3.65314703 3.653150612 3.65160112 3.65160112 3.65176158 3.650674625	0.00254314 0.00255314 0.00255318 0.00255712 0.00257808 0.00257808 0.0025876 0.0025817 0.0025817 0.0025817 0.0025817 0.0025817 0.0025818	0.00319392 0.003214244 0.003214324 0.003214324 0.00321633 0.00327532 0.00327532 0.00327532 0.00327534 0.00327534 0.00327534 0.00327534
FAM53C N PIPBS ANKSIA TBC1D7 AIDA FKBP10 B3GAT3 PLK3	16516.41616 834.998637 2543.494875 77991.067504 1684.745694 758.6080448 4657.448774 5301.680678 5310.33363 1633.650868	0.550442572 1.005061088 0.724302195 0.338279648 -0.503465142 -0.52933170 0.413956253 -0.37577086 0.748300852 0.574035542 0.87127283	0.150567127 0.274647139 0.198155377 0.0825562895 0.137783248 0.148468515 0.113309749 0.102873582 0.206942443 0.157201053 0.238589736	-3.656869819 3.65579314 3.65579314 3.65579314 3.65523324 3.65437236 -3.65437236 -3.65437236 -3.653969132 -3.6537656 3.65156667 3.6515667 3.6515667 3.651567	0.00254418 0.00225518 0.00225518 0.00225672 0.00225672 0.00225673 0.002258149 0.002258149 0.002258149 0.002258149 0.002258149	0.00319392 0.00320282 0.003214324 0.003216139 0.00327632 0.003225427 0.00322525 0.00322525 0.003232565 0.003237003 0.003237003 0.00324556
FAN63C N PIPRIS ANISTA TECLUP AIDA FARBO BIGAT3 PLK3 IMPOPEL SLCSBAL ENOL	16516.41616 83.498637. 2543.404875 7991.067304 1684.745604 758.608048 4657.448775 5310.680678 5310.3363 1631.65068 2078.544788 5179.53766 5268.854684	0.550442572 1.005061088 0.724302195 0.338259645 0.503465142 0.503465142 0.579333702 0.413955753 0.375773086 0.748350988 0.574055542 0.871272833 0.536519307 0.538531563 0.589590288	0.150567127 0.27894713 0.198153577 0.092562895 0.137782343 0.148694851 0.1133907465 0.102873562 0.208042443 0.157201053 0.23858736 0.146683767 0.15993200 0.161685058	-3.65686819 3.65579314 3.65579314 3.655469226 3.655223524 3.65417526 -3.65417526 -3.65314031726 -3.65314031726 -3.65314031726 3.653154031726	0.00254818 0.00255318 0.00255712 0.00256886 0.00257708 0.0025877 0.00258876 0.00258876 0.00258876 0.00258876 0.00258876 0.00258876 0.00258876 0.00256815 0.0026651	0.00319392 0.003214244 0.00321437 0.00321437 0.00321637 0.00325687 0.00327638 0.00327638 0.003276228 0.00327635 0.00327556 0.00327556 0.00327556 0.00327556
FAM-SIC NPPBS ANISIA FBCID7 AIDA FBCID7 BBGAT3 PLK3 IMPPBL SLC39AL ENO1 TECTA OG5T2	16516.41616 834.998673 2944.349875 7991.067504 1684.74509 778.0600488 4657.448774 5301.680075 5310.33653 1631.650688 2078.545688 2078.545688 2078.545688 2078.545688 2078.545688 2078.545688 2078.545688 2078.545688 2078.545688 2078.545688 2078.545688 2078.545688 2078.545688 2078.545688	0.550442572 1.005061088 0.724302195 0.338250648 0.503465142 0.539331702 0.413956253 0.337573088 0.748850985 0.574035542 0.871227833 0.536619807 0.5889533163 0.589503288 0.6167064881	0.150567127 0.274947134 0.198153277 0.092562895 0.137783243 0.144854851 0.113309749 0.102873582 0.20442443 0.157201053 0.238589733 0.146983767 0.15993206 0.1616850585	-1.656808119 3.655793124 3.655409326 3.655273324 3.654376286 -1.654037526 -1.654037526 -1.654037526 -1.654037526 -1.654037526 -1.654057526 -1.6510560112 -1.65176188 -1.65476188 -1.648761988 -1.648761988 -1.648761988	0.00225431 0.00225638 0.00025638 0.00025638 0.00025772 0.00025838 0.00025838 0.00025838 0.00025838 0.00025838 0.00026648 0.00026385 0.00026385 0.00026385	0.00319392 0.003214244 0.003214249 0.003216319 0.00327537 0.00327532 0.00327532 0.00327532 0.00327532 0.00327535 0.00327555 0.00327555 0.00327555
FAN6.3C NPPBS ANISIA TRCLID7 AINA FREPIO BIG AT3 PLK3 IMPOPUL SLCS9A1 ENO1 TECTA O6T2 SHSBP1 CEPBS	16516.41616 834.998637, 2943.404875 7991.057204 1684.745694 758.6080448 4657.448774 5301.680672 5310.33863 1633.650862 2075.547288 5179.553765 55298.80064 3241.886744 3066.14525 1001.190435	0.550442572 1.005061088 0.724302195 0.338259648 -0.503465124 -0.539331702 0.413950253 -0.375772008 0.748350988 0.574035522 0.8712753708 0.5385331563 0.58950364 -0.643561128	0.150567127 0.27894713 0.198153577 0.092562895 0.137782343 0.148654851 0.113807486 0.1020752895 0.203642444 0.157201053 0.238693767 0.1595200 0.161685058 0.168932732 0.175528955	-1.656808109 -1.655793126 -1.655793126 -1.655793126 -1.655793126 -1.653699316 -1.653969316 -1.653969316 -1.653969316 -1.653969316 -1.653969316 -1.653969316 -1.653969316 -1.6548715348 -1.644755821 -1.644875149 -1.644950410 -1.644950410 -1.644950410	0.00254814 0.000255114 0.000255136 0.000255712 0.000256588 0.000275700 0.00025876 0.00025876 0.00025876 0.00025876 0.00025876 0.00025876 0.00025876 0.00025876 0.00025876 0.00025876 0.00025876 0.00025876	0.00319392 0.003214244 0.003214324 0.00321637 0.003275487 0.003275487 0.003275487 0.003275487 0.003275487 0.003275564 0.003275564 0.00327555 0.00327555 0.00327555 0.00327555 0.00327555 0.00327555 0.00327555
FAMS.IC N PIPMS ANISTA TRICLID ANISTA AND FAMPIO BBGAT3 PIK3 IMPDI SCENE EMO1 TECTA CGFT2 SHEKEP1 CUPSS SHEKEP1 CUPSS	16516.41616 834.998673 2943.498675 7991.067504 1684.74509 758.6080-488 4657.448774 5301.680075 5310.33863 1631.650768 2078.543786 5278.245786 5278.245786 320.325786	0.550442572 1.005061088 0.724302195 0.338239648 0.500465142 0.52933170 0.413956233 0.375773088 0.748150052 0.574035542 0.574035542 0.57603542 0.57603542 0.57603542 0.57603542 0.57603542 0.57603542 0.57603542 0.576034005 0.589950286 0.617604481 0.64034005 0.445554286 0.44554286	0.150567127 0.274947129 0.198155377 0.095563892 0.1317783243 0.144864851 0.113309748 0.102875382 0.205942443 0.15720517 0.159932705 0.161685058 0.1693247712 0.175268875 0.124979103 0.125679103	-3.656808119 3.65579314 3.65559314 3.655593126 3.65437226 3.65437226 3.65437226 3.65437226 3.65437226 3.65156627 3.65156627 3.65156627 3.6515662112 3.651761383 3.650874625 3.64495043 3.64495043 3.64495043	0.000254318 0.000255386 0.000255386 0.000255712 0.000256386 0.000257808 0.000258149 0.00025817 0.00025817 0.00025817 0.00025817 0.00025817 0.00025817 0.00025817 0.00025817 0.00025817 0.00025817 0.00025817 0.00025817 0.00025817 0.00025817	0.00319324 0.003214244 0.003214244 0.003214519 0.00321539 0.00327587 0.00327587 0.00327587 0.00327587 0.00327587 0.00327587 0.0032759 0.0032759 0.0032759 0.0032759 0.0032759 0.0032759 0.0032759 0.0032759 0.0032759
FAN6.3C NPPBS ANISIA TRCLID7 AINA FREPIO BIG AT3 PLK3 IMPOPUL SLCS9A1 ENO1 TECTA O6T2 SHSBP1 CEPBS	16516.41616 834.998637, 2943.404875 7991.057204 1684.745694 758.6080448 4657.448774 5301.680672 5310.33863 1633.650862 2075.547288 5179.553765 55298.80064 3241.886744 3066.14525 1001.190435	0.550442572 1.005061088 0.724302195 0.338259648 -0.503465124 -0.539331702 0.413950253 -0.375772008 0.748350988 0.574035522 0.8712753708 0.5385331563 0.58950364 -0.643561128	0.150567127 0.27894713 0.198153577 0.092562895 0.137782343 0.148654851 0.113807486 0.1020752895 0.203642444 0.157201053 0.238693767 0.1595200 0.161685058 0.168932732 0.175528955	-1.656808109 -1.655793126 -1.655793126 -1.655793126 -1.655793126 -1.653699316 -1.653969316 -1.653969316 -1.653969316 -1.653969316 -1.653969316 -1.653969316 -1.653969316 -1.6548715348 -1.644755821 -1.644875149 -1.644950410 -1.644950410 -1.644950410	0.00254814 0.000255114 0.000255136 0.000255712 0.000256588 0.000275700 0.00025876 0.00025876 0.00025876 0.00025876 0.00025876 0.00025876 0.00025876 0.00025876 0.00025876 0.00025876 0.00025876 0.00025876	0.00319392 0.003214244 0.003214324 0.00321637 0.003275487 0.003275487 0.003275487 0.003275487 0.003275487 0.003275564 0.003275564 0.00327555 0.00327555 0.00327555 0.00327555 0.00327555 0.00327555 0.00327555
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FANSJC NPPBS ANISJA TRCLID7 AIRA TRCLID7 AIRA FREPIO BIG AT3 FLX3 IMPOPUL SICSBAL ENO1 TECTA CGFT2 SHERPI CCPRS AIRA MWPILCIB	16516.41616 834.998637. 2943.494877 7991.087200 11684.745694 4657.448774 5301.6806748 5310.33363 1633.650686 2078.544788 5170.532760 52588.2068 3243.88746 3263.437874 1313.601799 4364.533822 1001.190433	0.550442572 1.005061088 0.724302195 0.338259648 -0.503465124 -0.539331702 0.413956253 -0.375772086 0.748350985 0.574035542 0.871272536 0.5855351563 0.58695327 0.455542686 -0.645561128 0.362336153 0.362339133 0.7664595322	0.150567127 0.27894713 0.198153577 0.092562895 0.137782343 0.148864851 0.113809746 0.102873522 0.200442443 0.157201053 0.128693767 0.15952006 0.161685058 0.169324772 0.175628975 0.124979100 0.175628995 0.1099437743 0.175628995	-1.656808119 -1.655793126 -1.655793126 -1.655723126 -1.655475726 -1.655475726 -1.6536975726 -1.6536975726 -1.6536975726 -1.6536967937 -1.6536967937 -1.6536967132 -1.6536967132 -1.6536967132 -1.6467657136 -1.646767136 -1.64677136	0.002254314 0.000255314 0.000255318 0.000255712 0.000256585 0.0002257808 0.0002257808 0.000258716 0.000258876 0.000258876 0.000258876 0.000258876 0.000258876 0.000258876 0.000258876 0.000258871 0.000266455 0.000265851 0.000265851 0.000265853	0.00312925 0.003129244 0.003124324 0.003121031 0.003127587 0.00312587 0.00312587 0.00312587 0.00312595 0.00312595 0.00312595 0.00312595 0.00312595 0.00312595 0.00312595 0.00312595 0.00312595 0.00312595 0.00312595 0.00312595
FANGJC N PIPRIS ANKSIA TRICLID ARKSIA TRICLID ARKSIA ARKSIA TRICLID ARKSIA ARKSIA ARKSIA TRICLID ARKSIA ARK	16516.41616 83.498627. 2943.494872 7991.087304 1664.745594 758.608048 4657.448774 5301.680678 5310.33363 2078.544788 5206.8854084 3243.386743 3243.386743 3258.80685 3268.80583 3278.54788 3278.54788 3278.54788 3278.54788 3288.80685 3388.80685 33888.80685 33888.80685 33888.80685 33888.80685 33888.80685 33888.80685 33888	0.550442572 1.005061088 0.724302195 0.338259468 0.503465142 0.539331702 0.413966253 0.37866985 0.5780355425 0.5780355425 0.589595038 0.6157604881 0.640334055 0.455542536 0.645561122 0.302881102 0.302881102 0.302881102 0.302881102 0.302881102	0.150567127 0.274947120 0.198153377 0.092562892 0.131778243 0.144864851 0.113309743 0.10227382 0.20942443 0.157701053 0.138587736 0.16938767 0.159932732 0.175528973 0.124079103 0.175589951 0.09437145 0.210437665 0.083151526 0.083151526 0.083151526 0.083151526 0.083151526 0.083151526 0.083151526 0.083151526 0.083151526 0.083151526 0.083151526	-3.656869819 3.65579314 3.65579469526 3.6549526 3.65437526 -3.65437526 -3.65437526 3.653969137 3.653969137 3.65376565 3.651566677 3.651691112 3.65376183 3.656874625 3.648761948 -3.64765591 3.648761948 -3.647659139 -3.648761948 -3.647659139 -3.648761948 -3.647659139 -3.648761948 -3.64876184 -3.64876194 -	0.00254314 0.00255314 0.000255316 0.000255316 0.000255712 0.000256386 0.000257808 0.00025876 0.00025817	0.00312932 0.003214244 0.003214324 0.00321633 0.00325487 0.00325487 0.00325487 0.00325487 0.00325487 0.00325487 0.00325487 0.00325595 0.00325595 0.00325959 0.00325959 0.00325959 0.00325959 0.00325959 0.00325959 0.00325959 0.00325959 0.00325959 0.00325959 0.00325959 0.00325959 0.00325959 0.00335959 0.00335959 0.00335959 0.00335959 0.00335959 0.00335959 0.00335959
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FANGJC N PIPRIS ANKSIA TRICLID ARKSIA TRICLID ARKSIA ARKSIA TRICLID ARKSIA ARKSIA ARKSIA TRICLID ARKSIA ARK	16516.41616 83.498627. 2943.494872 7991.087304 1664.745594 758.608048 4657.448774 5301.680678 5310.33363 2078.544788 5206.8854084 3243.386743 3243.386743 3258.80685 3268.80583 3278.54788 3278.54788 3278.54788 3278.54788 3288.80685 3388.80685 33888.80685 33888.80685 33888.80685 33888.80685 33888.80685 33888.80685 33888	0.550442572 1.005061088 0.724302195 0.338259468 0.503465142 0.539331702 0.413966253 0.37866985 0.5780355425 0.5780355425 0.589595038 0.6157604881 0.640334055 0.455542536 0.645561122 0.302881102 0.302881102 0.302881102 0.302881102 0.302881102	0.150567127 0.274947120 0.198153377 0.092562892 0.131778243 0.144864851 0.113309743 0.10227382 0.20942443 0.157701053 0.138587736 0.16938767 0.159932732 0.175528973 0.124079103 0.175589951 0.09437145 0.210437665 0.083151526 0.083151526 0.083151526 0.083151526 0.083151526 0.083151526 0.083151526 0.083151526 0.083151526 0.083151526 0.083151526	-3.656869819 3.65579314 3.65579469526 3.6549526 3.65437526 -3.65437526 -3.65437526 3.653969137 3.653969137 3.65376565 3.651566677 3.651691112 3.65376183 3.656874625 3.648761948 -3.64765591 3.648761948 -3.647659139 -3.648761948 -3.647659139 -3.648761948 -3.647659139 -3.648761948 -3.64876184 -3.64876194 -	0.00254314 0.00255314 0.000255316 0.000255316 0.000255712 0.000256386 0.000257808 0.00025876 0.00025817	0.00312932 0.003214244 0.003214324 0.00321633 0.00325487 0.00325487 0.00325487 0.00325487 0.00325487 0.00325487 0.00325487 0.00325595 0.00325595 0.00325959 0.00325959 0.00325959 0.00325959 0.00325959 0.00325959 0.00325959 0.00325959 0.00325959 0.00325959 0.00325959 0.00325959 0.00325959 0.00335959 0.00335959 0.00335959 0.00335959 0.00335959 0.00335959 0.00335959
FANGJC N NPPBS ANISJA TECLID ANISJA FREB10 BBGAT3 PLK3 IMPPBL SICSBAL ENO1 TECTA OGT2 SHIGHPL CEPBS ANDS ANDGA MPPLCB BOLADB NUMBE BOLADB NUMBE DOCITO MEDIO	16516.41616 834.998637. 2943.404877 7991.057204 1584.745694 1584.745694 1585.7468774 5301.680678 5310.33363 1633.650686 2075.54788 5170.553769 52588.80684 3241.886746 3006.145073 1313.601799 4386.593824 9397.951608 1391.766166 6.480558224 4272.144518 1697.945168 1497.512033	0.550442572 1.005061080 0.72402195 0.338259645 0.503465142 0.503465142 0.503465142 0.573331702 0.413956273 0.738350988 0.574035542 0.871272833 0.536613907 0.538531536 0.540555426 0.6435406 0.44555426 0.6435406 0.4555426 0.6435406 0.4555426 0.6435406 0.4555426 0.6435406 0.4555426 0.6435406 0.4555426 0.6435406 0.4555426 0.6435406 0.4555426 0.6435406 0.4555426 0.6435406 0.4555426 0.6435406 0.4556465522 0.30288023 0.8221240 0.1737105267 0.3478695323	0.150567127 0.274947124 0.198153377 0.095263899 0.13177832A43 0.144864851 0.113309748 0.102273582 0.2004242A43 0.157201053 0.128558736 0.166832673 0.169532473 0.1795268575 0.12897910 0.179528575 0.12897910 0.179528575 0.12897910 0.179528575 0.12897910 0.179528575 0.12897910 0.179528575 0.12897910 0.179528575 0.12897910 0.179528575 0.179528585 0.1795285 0.1795285 0.179528585 0.1795285 0.1795285 0.1795285 0.1795285 0.1795285 0.1795285 0	-1.656808119 -1.655721326 -1.655721326 -1.655721326 -1.655721326 -1.655721326 -1.655721326 -1.655721326 -1.6536075726 -1.6536075726 -1.6536075726 -1.653607672 -1.6551601112 -1.6551601112 -1.6551601127 -1.6551601127 -1.6551601127 -1.6551601127 -1.6551601127 -1.6551601127 -1.6551601127 -1.6551601127 -1.655112725 -1.6551127 -1.655	0.00225431 0.000255134 0.000255136 0.000255712 0.00025876 0.000258776 0.000258776 0.000258876 0.000258876 0.000258876 0.00026613 0.00026613 0.00026613 0.00026613 0.00026613 0.00026613 0.00026613 0.00026613 0.00026613 0.00026613 0.00026613 0.00026613 0.00026613 0.00026613 0.00027543 0.00027543 0.00027543 0.00027543 0.00027543 0.00027543	0.00332932 0.00332932 0.003216324 0.003216324 0.003216327 0.003216327 0.00322532 0.00325256 0.00325256 0.00325256 0.00325256 0.00325555 0.00327632 0.00327632 0.00327632 0.00327632 0.00327632 0.00327632 0.00327632 0.00337632 0.00337632 0.00337632 0.00337632 0.00337632 0.00337632 0.00337632 0.00337632 0.00337632 0.00337632
FAMESIC N N PIPRIS ANNISTA TRICLID ALDA FERRITO BIS GAT3 PLK3 IMPORT SICURIA IMPO	16516.41616 83.498637. 294.3,404872 7991.067300 1684.74504 758.608048 4657.448772 5310.680678 5310.33863 1633.65068 2077.8-44788 5317.5537796 5328.80668 2078.84788 5317.5537796 5328.80668 2068.885408-4 2324.386744 3001.19043 3119.66150 6.480558428 4277.145318 1499.715238 1429.91308 1429.715238	0.550442572 1.005061088 0.724302195 0.338239648 0.503465142 0.539333702 0.413965233 0.377773088 0.748360985 0.574055542 0.8712727833 0.536619307 0.538519528 0.617604481 0.640334065 0.455542636 0.643561312 0.766495522 0.3028212430 0.78212433 0.028212430 0.78212433 0.028212430	0.150567127 0.274947130 0.198155377 0.092562839 0.131778243 0.144664851 0.113309740 0.102873822 0.204942443 0.15720023 0.15720023 0.15720023 0.166682767 0.159924723 0.175568975 0.124979103 0.17558975 0.124979103 0.17558975 0.124979103 0.17558975 0.124979103 0.175589875 0.124979103 0.175589875 0.124979103 0.175589875 0.124979103 0.175589875 0.124979103 0.17559895 0.10389403 0.1107579308	-1.656806819 -1.65579126 -1.65579126 -1.65476726 -1.65476726 -1.65476726 -1.65476726 -1.65476726 -1.65476726 -1.65476726 -1.65476726 -1.65476726 -1.65476726 -1.65476726 -1.65476726 -1.644767 -1.64477 -1.644767 -1.644767 -1.644767 -1.64477 -1.64477 -1.64477 -1.64477 -1.64477 -1.6447	0.000254318 0.000255314 0.000255316 0.000255710 0.000256718 0.000257808 0.000257808 0.00025876 0.00025817 0.00025817 0.00025817 0.00025817 0.00025817 0.00025817 0.00025817 0.00025817 0.00025817 0.00025817 0.00025817 0.00025817 0.00025818 0.00025818 0.00025818 0.00025818 0.00025818 0.00025818 0.00025818 0.00025818 0.00025818 0.00025818 0.00025818 0.00025818 0.00025818 0.00025818 0.00025818 0.00025818 0.00025818 0.00025818 0.00025818	0.003193254 0.00312624 0.00312634 0.00312634 0.00312634 0.00312634 0.00312634 0.00312634 0.00312634 0.00312634 0.00312634 0.00312634 0.00312634 0.00312634 0.00312634 0.003126364 0.003126364 0.003126364 0.003126364 0.003126364 0.003126364 0.003126364 0.003126364 0.003126364 0.003126364 0.003126364 0.003126364 0.003126364 0.003126364 0.003126364 0.003126364 0.003126364 0.003126364 0.003126364
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FANSJC N NPPBS ANKSIA TECLU7 ADA TECLU7 ADA TECLU7 ADA TECLU7 ADA TECLU7 ADA TECLU7 ADA TECLU7 AND	16516.41616 83.498627. 2943.404877. 2943.404877. 2943.404877. 2943.404877. 2943.60488. 4657.48777. 530.680678. 5310.3386. 2073.554788. 5310.3386. 2073.554788. 5310.3386. 2073.554788. 5310.3386. 206.8854084. 2343.38674. 2345.38674. 2345.38674. 2345.38674. 2345.38674. 235	0.550442572 1.005061088 0.724302195 0.338239468 0.503465142 0.539331702 0.413965235 0.377273086 0.748360985 0.579035342 0.871277833 0.586519307 0.5865	0.150567127 0.27494713 0.198153377 0.092562892 0.131778243 0.144864851 0.113309743 0.10227382 0.204942443 0.157701053 0.12858773 0.146983767 0.159932073 0.1561658576 0.159932073 0.175528975 0.124979103 0.175528975 0.124979103 0.175528975 0.124979103 0.175528975 0.124979103 0.175528975 0.124979103 0.175528975 0.124979103 0.175528975 0.124979103 0.175528975 0.15932073 0.175528975 0.15932073 0.175528975 0.15932073 0.175528975 0.15932073 0.175528975 0.15932073 0.175528975 0.15932073 0.175528975 0.15932073 0.177529083 0.104639569	-3.65680810 -3.65579214 -3.65579214 -3.65579215 -3.65407526 -3.65407526 -3.65407526 -3.65407526 -3.65156627 -3.65156627 -3.65156627 -3.65156627 -3.65156627 -3.65156627 -3.65156627 -3.6515627 -3.6515627 -3.6515627 -3.6515627 -3.6515627 -3.6515627 -3.6515627 -3.6515627 -3.6515627 -3.6515627 -3.6515627 -3.6515627 -3.651570	0.00254314 0.00255314 0.00255316 0.00255712 0.002557808 0.00257808 0.00257808 0.0025817	0.00319322 0.003214244 0.003214324 0.003214324 0.003214324 0.003214324 0.003214324 0.003214324 0.003215367 0.003275367 0.003275256 0.003275367 0.003275367 0.003275367 0.003275367 0.003275367 0.003275367 0.003275367 0.003345961 0.003345961 0.003345961 0.003345961 0.003345961 0.003345961 0.003345961 0.003345961 0.003345961 0.003345961 0.003345961 0.003345961 0.003345961 0.003345961 0.003345961 0.003345961 0.003345961 0.003345961
FAMSIC N N PPMS ANNISTA TRICLID ANNISTA AND FAMPIO BBGAT3 PIK3 IMPPM SICSPAL EMOI TECTA CGFT2 SHEKEP1 CEPES ANDE SMORA MAPLICAB BOLAZB N N MWSC BOLAZB N N MWSC BOLAZB N N MWSC EMOI MELIO SERFACE SERFACE N EMOS EMOST	16516.41616 834.998677 2943.494877 2943.494877 7991.087200 1584.745694 4657.448774 5301.680678 5310.33363 1633.600688 2078.544788 5170.553760 52588.20068 3241.386746 3006.14276 3010.1190433 1319.07979 4364.93979961 1391.7661666 6.480538424 4272.144518 1699.715236 1437.512033 1437.512033 1437.512033 1437.512033	0.550442572 1.005061088 0.724302195 0.338259648 0.503465142 0.52933170 0.413956233 0.375773088 0.748350952 0.871272833 0.536013907 0.538531563 0.539050266 0.617604481 0.640334065 0.445564286 0.445564286 0.43564297 0.3766465522 0.30281023 0.3221200 0.327126076 0.3776867552 0.3776867552 0.3776867552 0.3776867552 0.3776867552 0.3776867552 0.3776867552 0.3776867552 0.3776867552 0.3776867552 0.3776867552 0.3776867552 0.3776867552 0.3776867552 0.3776867552 0.3776867552 0.3776867552	0.150567127 0.274947129 0.198155377 0.095563892 0.131783243 0.144864851 0.113309743 0.102275382 0.206432433 0.157201653 0.238589736 0.169324772 0.179528875 0.124979103 0.17652875 0.124979103 0.17652875 0.124979103 0.17652875 0.124979103 0.17652875 0.124979103 0.17652875 0.124979103 0.17652875 0.124979103 0.17652875 0.124979103 0.17652875 0.124979103 0.17652875 0.114979103 0.17652875 0.114979103 0.17652875 0.17932083 0.10552012 0.27932083 0.10552012 0.177922083 0.10552664888 0.104833695 0.104833695 0.104833695 0.104833695	-1.656806819 -1.65593126 -1.65593126 -1.654375286 -1.654375286 -1.654375286 -1.654375286 -1.654375286 -1.654375286 -1.654375286 -1.654376386 -1.654362136 -1.648751388 -1.648755389 -1.648755389 -1.648755389 -1.648755389 -1.648755389 -1.64875389	0.000254818 0.000255116 0.0002557808 0.000256785 0.000256785 0.000256785 0.000256785 0.000258217 0.000258217 0.000258217 0.000258257 0.000258257 0.000258257 0.000258257 0.000258251 0.000258551 0.000258551 0.000258551 0.000258551 0.000258551 0.000258551 0.000278551 0.000278551 0.000278551 0.000278551 0.000278551 0.000278551 0.000278551 0.000278551 0.000278551	0.00319031 0.00319031 0.0031631 0.0031631 0.003170
PAMS3C N N PPBS N N PPBS N N STA TECLOT AUDA P SEPP10 BS GAT3 PLKS M PPDR SL CSRAI TECLTA COST2 SHKREP1 CLPRS SKKREP1 CLPRS SKKREP1 CLPRS SKKREP1 CLPRS SKKREP1 CLPRS SKKREP1 CLRRS SKKREP1 SK	16516.41616 83.498637. 294.3,404877 294.3,404877 7991.067300 1684.74504 798.608048 4657.448774 5310.680678 5310.3316.3 1633.65068 2078.544788 5317.553796 5228.80665 206.885408-4 324.3,86744 3300.142052 1001.19043 3119.65106 6.480558428 427.145128 1429.941089 1437.522537 18.41852799 3476.533798 266.2555427 35.174644579 16977.15236	0.550442572 1.005061088 0.724302195 0.338259648 0.503465142 0.539331702 0.413962533 0.37860985 0.748360985 0.578035342 0.871272833 0.536619307 0.5385395038 0.6167604881 0.640334065 0.45554626 0.64556129 0.30288103 0.30288103 0.30288103 0.401993653	0.150567127 0.274947129 0.198153577 0.0925628929 0.131782431 0.144864851 0.113309749 0.10227382 0.20942443 0.157720103 0.157720103 0.157820103 0.16885767 0.15992072 0.175629875 0.124099103 0.1756599951 0.099437145 0.210437668 0.08315152 0.20560163 0.105720103 0.177829903 0.177829903 0.17782903 0.17782903 0.17782903 0.177829083 0.10555071 0.177829083 0.20560163 0.5056648399 0.104833577 0.214814566 0.159407791 0.17823885	-1.65680810 -1.65579312 -1.65579312 -1.65579312 -1.65579312 -1.65579312 -1.65379612 -1.65379612 -1.65379612 -1.65379612 -1.65379612 -1.65379613 -1.65379613 -1.65379613 -1.65379613 -1.65379613 -1.654796138 -1.64871369 -1.64871369 -1.64871369 -1.64871369 -1.64871369 -1.64871369 -1.64871369 -1.64871369 -1.64871369 -1.64371369 -1.64371369 -1.635167712 -1.63586717 -1.63586717 -1.63586717 -1.63586717 -1.63586717 -1.63588724 -1.63588724 -1.63588724 -1.63588725 -1.63588726 -1.6	0.00254316 0.00255316	0.00312932 0.003212824 0.003212824 0.003212824 0.003254824 0.003254824 0.003254824 0.003254824 0.003254824 0.003254824 0.003254824 0.00325565 0.00325565 0.00325565 0.00325565 0.00325656 0.003256
PAMS3C N N PPMS N N STAN TRCLID7 AMSS1A AMSS1A AMSS1A AMSS1A AMSS1A BADA BADA BADA BADA BADA BADA BADA BA	16516.41616 834.998677 2943.494877 2943.494877 7991.087200 1684.745604 758.6080488 4657.448774 5301.6880778 5310.33363 1633.60868 2078.544788 5170.553760 52288.20668 208.844788 3005.142702 1301.190433 1319.601799 4364.93874 241.386746 3005.142702 1301.39478 1319.601799 4364.93874 1417.51201 1230.22527 1418518 1609.715736 14185799	0.550442572 1.005061088 0.724302195 0.338239648 0.502465142 0.539331702 0.413956233 0.377573088 0.748360955 0.579053542 0.872127483 0.53613907) 0.538531561 0.589950738 0.617604481 0.64034005 0.47554268 0.3766495522 0.302881023 0.82212404 0.73766495522 0.302881023 0.82212404 0.473764695527 0.377666756 0.3776675651 0.406695337 0.736645756 0.377667765	0.150567127 0.274947129 0.198155377 0.095563892 0.131783244 0.148664851 0.113309746 0.10287582 0.205942443 0.157201033 0.238589736 0.169324773 0.175589575 0.124978100 0.175589575 0.124978100 0.175589570 0.124978100 0.175589570 0.124978100 0.175589570 0.124978100 0.175589570 0.124978100 0.175589570 0.124978100 0.175589570 0.124978100 0.175589570 0.124978100 0.115589570 0.124978100 0.115959570	-1.656806819 -1.655973126 -1.655973126 -1.655973126 -1.65497576 -1.65497576 -1.65497576 -1.65497576 -1.65497576 -1.65497576 -1.65497576 -1.654976180 -1.648761986	0.000254318 0.000256386 0.000256786 0.000256786 0.000256786 0.000256786 0.000257808 0.000258171 0.000258171 0.000258171 0.000258171 0.000258171 0.000258171 0.000258171 0.000258171 0.000258171 0.000258171 0.000258171 0.000258171 0.000258171 0.000258171 0.000258171 0.000258171 0.000258171 0.000258171 0.000258171 0.000275791 0.000277691 0.000277691 0.000277691 0.000277691	0.003193294 0.003193294 0.003193294 0.0031931 0.0031931 0.003125467 0.0031254

ALG3	1464.750545	0.596499199	0.164368533	3.629035232	0.000284482	0.003476609
MG AT4B	4102.260064	0.438962658	0.120989471	3.62810626	0.000285508	0.003486827
DN AIC30	1283.813211	0.473874443	0.130640541	3.627315376	0.000286383	0.003492892
BCL9L	1985.585596	0.582803038	0.160666258	3.627414024	0.000286274	0.003492892
SLX4IP	512.971148	-0.377188391	0.104038384	-3.625473368	0.000288433	0.003508598
CO MMD5	1386.970438	0.45273165	0.124875185	3.625473319	0.000288433	0.003508598
EFHD2	5562.007774	0.711705073	0.196302413	3.625554371	0.000288342	0.003508598
ESYT1	3536.001408	0.399015046	0.110046251	3.625884944	0.000287974	0.003508598
MNAT1	674.8924104	-0.298898398	0.08249184	-3.623369284	0.00029079	0.003534942
BTNL3	12.31202265	1.730307945	0.477961722	3.620180997	0.000294397	0.00357172
RNF113A	751.7027284	0.456585055	0.126119101	3.62026886	0.000294297	0.00357172
ZNF526	401.7624565	0.341131957	0.094226705	3.620332005	0.000294225	0.00357172
TTC14	1898.386107	-0.502640623	0.138877975	-3.619296899	0.000295405	0.003579412
IL3RA	208.560015	0.945832472	0.261331391	3.619283813	0.000295419	0.003579412
SERF2	26409.12372	0.652816861	0.180382974	3.619060302	0.000295675	0.003580151
LRIG3	533.7080559	-0.79938462	0.220954083	-3.617876664	0.00029703	0.003594198
RAN	9122.021688	0.392124124	0.108392837	3.617620282	0.000297324	0.003595398
TRPV2	748.1086398	0.768640363	0.212705795	3.6136315	0.000301938	0.003648798
G AB2	6886.854996	-0.703654846	0.1947827	-3.612512029	0.000303245	0.003662191
HIST1H2BG	42.8467591	1.087854087	0.301156515	3.612254872	0.000303546	0.003663425
PLEKHO2	3782.471656	0.596880544	0.165280759	3.611312942	0.000304651	0.003674352
FHL2	542.5604638	1.039732262	0.28792991	3.611060278	0.000304948	0.003675528
SEMA4C	4176.806624	-0.472226873	0.130803114	-3.610211239	0.000305948	0.003685171
TLCD2	293.7433217	0.581254959	0.161012527	3.609998358	0.000306199	0.003685787
SLC49A3	504.4815783	0.81908157	0.226905992	3.609783779	0.000306452	0.00368643
SEC61B	2912.376956	0.517692857	0.143452259	3.608816353	0.000307597	0.003692971
CD80 NOB1	65.35348212	1.56622296 0.451001277	0.433990453	3.608888048 3.608996478	0.000307512 0.000307384	0.003692971
POLR2D	1387.735979 1717.233823	0.376086598	0.12496584 0.104219595	3.608597786	0.000307856	0.003692971 0.003693676
SHBTC1	1884.171223	-0.692590325	0.19198901	-3.607447756	0.000309224	0.003704774
KRT1	16.83604205	1.774297785	0.491861354	3.607312853	0.000309385	0.003704774
PWWP2B	745.6042871 7744.234545	0.628396332	0.174185185 0.295880183	3.607633633	0.000309002	0.003704774
CXCL14 PSRC1	4659.424658	1.067252272 -0.595051939	0.164978282	3.60704209 -3.606850135	0.000309707 0.000309937	0.003706233 0.003706568
RTF1	2912.966362	0.338908892	0.093977606	3.606272882	0.000310626	0.00371241
C10orf95	10.94855767	1.224935593	0.339721729	3.605702814	0.000311309	0.003718158
EPM2A	1139.388754	-0.55539164	0.154100873	-3.60407848	0.000313262	0.003739063
RBAK-RBAKDN	46.40534739	0.766935295	0.212812933	3.603800225	0.000313598	0.003740647
ATPAF2	913.3397017	0.355725341	0.098724273	3.603220664	0.000314298	0.003746576
G KN 1	3.659845199	2.549188888	0.707575005	3.602711899	0.000314915	0.003751493
SHSA3	76.51215984	1.279545385	0.35520085	3.602315098	0.000315396	0.003754798
ARSI	284.5964244	0.647340527 -1.029391753	0.179711162	3.602116418	0.000315637	0.003755244
EVIZA	8112.494728	0.47968774	0.285809106	-3.601675843	0.000316172	0.003759188
MRPL2	1635.722783		0.133211258	3.600954965	0.00031705	0.003767198
P4HA2	1043.520078	0.698125413	0.193885932	3.600701735	0.000317359	0.003768439
USP54	6690.590728	-0.699983778	0.194411661	-3.600523627	0.000317577	0.003768594
TUBB8	9.94166473	-1.311432904	0.364322473	-3.599648662	0.000318647	0.003776433
NOCT	185.8977737	0.703833305	0.195526645	3.599679753	0.000318609	0.003776433
C5	385.4692824	-0.600136326	0.166754918	-3.5989123	0.000319551	0.003784707
SRRM1	1274.618709	0.955347868	0.265470172	3.598701359	0.00031981	0.003785345
	4207.762292	-0.453488572	0.126100958	-3.596234147	0.000322857	0.003818957
DEFA1B	9.440697305	3.322768187	0.92431163	3.594857057	0.00032457	0.003836751
CCDC43	1273.092581	0.233401773	0.064931468	3.59458643	0.000324907	0.00383828
ITK	129.9039473	-0.698625712	0.194366063	-3.594381151	0.000325164	0.003838846
N CK2	2381.701621	-0.500097928	0.139176713	-3.593258658	0.000326568	0.003845898
FAM136A	1123.815274	0.449182945	0.12500789	3.593236745	0.000326596	0.003845898
PLBD1	838.8259508	1.004164671	0.279456648	3.593275299	0.000326547	0.003845898
HIST1H4H	361.402072	0.730252716	0.203221811	3.593377651	0.000326419	0.003845898
HIST2H2AA4	734.8320941	1.384998085	0.385495865	3.592770276	0.000327181	0.003850331
AN XA2	18032.5126	0.961805407	0.267764512	3.591982374	0.000328172	0.003859529
ARHG AP21	17727.76927	-0.712242952	0.198377295	-3.590345122	0.00033024	0.003878938
IN PP5B	1142.211345	-0.272401403	0.075870582	-3.590342876	0.000330243	0.003878938
NR2F6	1589.692966	0.552698269	0.154003048	3.588878777	0.000332103	0.003898299
PIGH	1122.292313	0.245426327	0.06839379	3.588430006	0.000332675	0.003902529
Clorf167	36.56692503	0.912418103	0.254287916	3.588130017	0.000333058	0.003904535
SIK3	5926.103966	-0.603599125	0.16827769	-3.586923043	0.000334603	0.003920152
RPLP2	24398.98003	0.755799755	0.210732253	3.586540479	0.000335094	0.003923411
C21orf58	294.4517836	-0.724006224	0.202039356	-3.583491043	0.000335094	0.003923411
SCLT1	339.4054032	-0.50930307	0.142178439	-3.582139971	0.000340791	0.003983336
UQCRFS1	4384.252302	0.470012694	0.131211981	3.58208671	0.000340861	0.003983336
CCDC22	1212.267813	0.360246616	0.100583586	3.581564657	0.000341543	0.003988776
GPR142	6.400111831	-2.395286068	0.66898294	-3.580489016	0.000342952	0.004002697
BLOC1S2 SLF2	3494.98629 2845.821117	0.621658537 -0.593319768	0.173683562 0.165813571	3.579259479	0.000344569	0.004019029
SENP6	2958.161007	-0.35016363	0.165813571	-3.578234063 -3.577817856	0.000345924 0.000346475	0.004032275
DNLZ	987.2605118	0.849462285	0.237419942	3.577889359	0.00034638	0.004033596
SOX18	727.0589223	0.822960743	0.230053119	3.577264002	0.000347209	0.004039598
RN F220	7562.818566	-0.408832396	0.114295045	-3.576991416	0.000347572	0.00404126
ZDHC16	1064.155013	0.345232769	0.096527636	3.57651739	0.000348202	0.004046039
ZNF738	431.4082832	-0.593579454	0.166073241	-3.574202866	0.000351296	0.004079002
TIMM50	3154.29074	0.398413646	0.111473532	3.574064962	0.000351482	0.004079002
TPCN1	4710.270104	-0.455693653	0.127509353	-3.573805696	0.00035183	0.004080476
ZNF83	3074.349407	-0.491434726	0.137530559	-3.573276592	0.000352542	0.004086162
PRPF31	3007.078175	0.488045954	0.136590667	3.573054919	0.000352841	0.004087053
AC093323.1	1276.922336	0.380761612	0.106587451	3.572293071	0.000353869	0.00409639
	2189.558756	0.519251267	0.14540698	3.571020223	0.000355593	0.004111187
C14orf119 HTRA2	1612.497979	0.36702743	0.102775298	3.571163876	0.000355398	0.004111187
AN KRD44	933.45234	-0.631940169	0.177052373	-3.569227332	0.000358036	0.004136827
PUS1	971.5057605	0.511881795	0.143438055	3.56866103	0.00035881	0.00414318
HID1	4383.244949	-0.67071236	0.187967141	-3.56824259	0.000359384	0.004147202
SLC15A3	3730.430595	0.971944292	0.272414849	3.567882946	0.000359877	0.004150298
LMLN2	30.44426232	-1.361479305	0.381621389	-3.567617922	0.000360241	0.004151589
NMNAT1	543.3072788	0.294733093	0.082616755	3.567473605	0.00036044	0.004151589
SHBPXD2A	6358.708646	-0.770290614	0.215995251	-3.566238659	0.000362142	0.004168587
PPP1R14B	2574.646441	0.691576201	0.193938055	3.565964411	0.000362521	0.004170344
SDF4	8642.616223	0.440014892	0.123426172	3.565004757	0.00036385	0.004183022
LSM7	2803.019276	0.666728339	0.187076952	3.563925612	0.00036535	0.004197647
MTSS1	3367.923082	-0.609738335	0.17110784	-3.563473976	0.000365979	0.00420226
CCDC180	654.1223422	-0.660356639	0.185355822	-3.562643095	0.00036714	0.004212962
IRF1	2078.303661	0.941333082	0.264246654	3.562327346	0.000367582	0.004215409
DAXX	2550.138336	0.44510276	0.124980964	3.561364427	0.000368933	0.00422827
KSR1 CDK7	2182.888443 645.4292791	-0.403678862 0.316157898	0.113372932 0.088809904	-3.560628224 3.559939657	0.000369969	0.004237509
ASTE1	442.3788019	-0.227043042	0.063783499	-3.559589025	0.000371436	0.00424903
C19orf53	4694.146752	0.552695776	0.155329064	3.558225125	0.000373369	0.0042685
TADA2B	1210.539961	0.2318312	0.065160986	3.557822175	0.000373942	0.004272401
COL4A5	4694.500414	-1.020278676	0.286823235	-3.557168846	0.000374873	0.004277733
PSMA4	4281.550125	0.468812058	0.131789084	3.557290504	0.0003747	0.004277733
RPL13	48959.00533	0.616788197	0.173490831	3.55516308	0.000377745	0.004302508
JPT1	3682.313751	0.651030226	0.183121266	3.555186348	0.000377711	0.004302508
NOC2L	4137.974922	0.542316924	0.152541686	3.555204725	0.000377685	0.004302508
MAT2A	18511.70269	-0.332356542	0.093491886	-3.554923927	0.000378088	0.004303763
SORCS2	1963.60492	-0.742024647	0.2087541	-3.554539269	0.000378642	0.004304801
RN F185	3049.936425	0.225357756	0.063400051	3.554535862	0.000378647	0.004304801
PTBP2	1679.308639	-0.575545984	0.161936621	-3.554143481	0.000379212	0.004308571
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SRRD	1132.858782	0.230201114	0.064804496	3.552239879	0.000381966	0.00433452
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FKBP2 DCU N 1D3	5238.562972 724.1051505	0.770521783 0.488720896	0.216968959 0.13768703	3.551299623 3.549505684	0.000383334 0.000385955	0.00434559 0.004371707
COPRS	3770.374629	0.434540258	0.122432764	3.549215456	0.000386381	0.00437384
GOLGA8N SPATA6	1328.872529 1036.717946	-0.69047656 -0.641169925	0.194555829 0.180726548	-3.548989332 -3.547735142	0.000386713 0.000388559	0.004374911 0.004393098
CLEC10A	163.3526061	1.795292868	0.506210983	3.546530851	0.000390339	0.004407817
STATSA	1851.603404	0.60033569	0.169272609	3.546561325	0.000390294	0.004407817
STAT6 U Q CRC1	2955.912935 8298.373906	0.548185628 0.469398989	0.154581975 0.132397095	3.546245471 3.545387361	0.000390762 0.000392037	0.004409892 0.004418863
DN AICSB	70.89824691	1.234319904	0.348134922	3.545521653	0.000391837	0.004418863
SHC4 FAM89B	745.6414083 2121.619336	-0.653890955 0.510944323	0.184447605 0.144175797	-3.54513117 3.543898021	0.000392418 0.000394258	0.004420456 0.00443847
MAP4	38215.00983	-0.561612445	0.158496243	-3.543380161	0.000395033	0.004444481
OTOS CIAPIN1	1127.536771 1721.289306	1.291952524 0.418673623	0.36468453 0.118241654	3.542657877 3.540830218	0.000396116 0.00039887	0.004453951
RPL26L1	962.0532891	0.458924085	0.129605096	3.540941684	0.000398702	0.00447945
AUP1 TACR3	7661.244799 32.5571196	0.469936817 -1.381021967	0.132754199 0.390184435	3.539901707 -3.539408145	0.000400276 0.000401025	0.004492502 0.004492865
HSD3B7	1098.494328	0.712107545	0.201194504	3.539398597	0.000401023	0.004492865
C16orf95 AN KRD22	190.5720851 209.7143171	0.515024542 -1 14666181	0.145510995 0.324243027	3.539420114 -3.536427045	0.000401007 0.000405579	0.004492865
FEM1A	209.7143171	-1.14666181 0.28660649	0.324243027	-3.536427045 3.5364251	0.000405579	0.004538228
RACK1	28936.11293	0.54316602	0.153612752	3.535943554	0.000406322	0.004543749
PRR18 OSTM1	5705.500689 1787.329204	-1.155228505 0.516502045	0.326786715 0.146124315	-3.535114658 3.534675552	0.000407598 0.000408276	0.004555263 0.004560073
FFAR1	116.9251424	-1.176138253	0.33276881	-3.534400516	0.000408701	0.004560115
NUMA1 SPTY2D1	12891.35158 662.6143651	-0.306412194 0.443141039	0.086709381	-3.533783644 3.53371382	0.000409656 0.000409764	0.004560115
PDCD5	2972.681512	0.480770379	0.136040252	3.534030339	0.000409274	0.004560115
C19orf48 C12orf57	1867.572234 5521.930781	0.743688068 0.626978398	0.210436025	3.534033999 3.534098106	0.000409268 0.000409169	0.004560115 0.004560115
C12orf57 HSPA8	5521.930781 45352.66481	0.626978398 0.314358296	0.177408317 0.088971764	3.534098106 3.533236618	0.000409169 0.000410505	0.004560115 0.004565597
PLK2	1637.564149	1.051437326	0.297606098	3.53298314 3.531961898	0.000410899	0.004567221
KLRG 2 PIDD1	9.324663939 3748.43581	1.816946966 0.737852787	0.514429945 0.208959956	3.531961898 3.531072658	0.000412489 0.000413878	0.004582131 0.004589265
G PATCH4	1846.050232	0.517554615	0.146568543	3.531143892	0.000413767	0.004589265
PARS2 TSEN 34	298.3697744 1806.568773	0.375579618 0.447966135	0.106358779 0.126870635	3.531251679 3.530889054	0.000413598 0.000414165	0.004589265 0.00458969
TMEM222	4121.643507	0.476764467	0.13505222	3.530223093	0.000415209	0.004598494
FAM95C NAT14	829.998563 2182.663383	-1.120964251 0.601125	0.31757937 0.170302104	-3.529713698 3.529756747	0.00041601 0.000415942	0.004601825 0.004601825
PHF21A	2114.859187	-0.298950004	0.084710958	-3.529059408	0.000417039	0.00461045
RPE65 RPL7	380.4058103 29047.62048	-1.299843424 0.445446335	0.368359661 0.126230044	-3.528734446 3.528845605	0.000417552 0.000417377	0.004610584 0.004610584
DEN N D2D	871.2376256	0.931178866	0.263940041	3.527993947	0.000418722	0.004615205
SIGLEC12 CD800C	33.49371219 292.7424853	1.775447939 0.928654867	0.50323713 0.263217937	3.528054339 3.528083521	0.000418626 0.00041858	0.004615205 0.004615205
PER2	867.9644941	-0.43332172	0.122834146	-3.527697588	0.000419191	0.004617613
PLPP6	544.3117252	0.329451479	0.093418645	3.526613741	0.00042091	0.004633785
G PRCSD TTLL11	2.502498103 685.2085609	-1.638668254 -0.712663273	0.464798893 0.202197114	-3.525542504 -3.524596661	0.000422616 0.000424128	0.004649789 0.004663196
ACY1	1294.786579	0.508867582	0.144381566	3.524463663	0.000424341	0.004663196
FRYL RN F187	4962.492699 9951.118297	-0.762932941 0.479489886	0.216510761 0.136071653	-3.523764531 3.523804365	0.000425462 0.000425398	0.004667168 0.004667168
CO MMD4	3915.678008	0.622058143	0.176522246	3.523964576	0.000425141	0.004667168
SLC25A20 ATP6V0D2	1165.933924 83.55775825	0.326965934 1.432419844	0.092799715 0.406621083	3.523350637 3.522738745	0.000426127 0.000427112	0.004671682 0.004679697
PAPOLG	793.1221478	-0.510443907	0.144914655	-3.522376042	0.000427697	0.00468332
DAAM2 VPREB3	18516.96894 30.08322833	-0.978577685 1.311201298	0.27786053 0.372317988	-3.521830484 3.521724282	0.000428578 0.00042875	0.004689276 0.004689276
IL 17RE	198.9392097	0.735248099	0.208903797	3.51955355	0.000432274	0.004725014
MRPL11 TRH	1368.79348 69.39346537	0.508875061 1.478919065	0.144614527 0.4203495	3.518837771	0.000433442 0.000434308	0.004734971
SPATA13	4318.501461	-0.680839799	0.193531509	-3.517979066	0.000434847	0.004741622
DUSP13 TSG A10	8.230228117 265.6504788	1.549602824 -0.539468225	0.440524658 0.153376749	3.51763016 -3.517275138	0.000435419 0.000436002	0.004748126 0.004748861
BAG 5	2263.441173	0.192660639	0.054775329	3.517273136	0.00043598	0.004748861
ABCA8	3181.334092	-0.928091959	0.263927886	-3.516460395	0.000437342	0.004758718
TESK2 RAB3D	793.8561912 838.664551	-0.777241191 0.354427614	0.221040929	-3.516277257 3.516254483	0.000437644 0.000437681	0.004758718 0.004758718
PREX1	15999.14599	-0.561264412	0.159641006	-3.515791	0.000438446	0.004764222
LLGL2 SYF2	599.2676676 1964.92306	-0.521968178 0.370683543	0.148503153 0.10545897	-3.514862584 3.514955091	0.000439982 0.000439828	0.004775277 0.004775277
NUCB1	12423.54068	0.525890495	0.149654942	3.51402023	0.000441379	0.004787626
RBM39 SMURF1	7351.420654 1716.223225	-0.273618766 -0.255316874	0.077894039 0.072726741	-3.512704836 -3.510632697	0.00044357	0.004808559
ADG B	30.95936633	-0.929082037	0.26466739	-3.51037593	0.000447474	0.004845177
BU D23 HDAC3	3263.235884 2230.006663	0.437523736 0.348925028	0.124728835 0.099487489	3.507799439 3.5072252	0.00045183 0.000452806	0.00488947 0.004894286
DCTPP1	1163.376939	0.464454438	0.132424166	3.507323871	0.000452638	0.004894286
ELOVL3 QPCTL	15.81856901	1.528497782	0.435962815	3.506027871	0.000454848	0.004910595 0.004910595
CDCP1	428.158457	0.478327136	0.136428418	3.506066721	0.000454781	
	540.2140767	0.853508198	0.243482584	3.505417859	0.000455891	0.00491898
REXO4 APIP						
REXO 4 APIP SEMA6A	540.2140767 1561.860361 1160.847084 5697.138184	0.853508198 0.43466719 -0.407252272 -0.652779079	0.243482584 0.124004789 0.116193362 0.186261836	3.505417859 3.505245185 -3.50495298 -3.504631396	0.000455891 0.000456187 0.000456688 0.00045724	0.00491898 0.004919292 0.004921814 0.004924882
REXO 4 APIP SEMA6A MAPKAPK3	540.2140767 1561.860361 1160.847084 5697.138184 2468.881097	0.853508198 0.43466719 -0.407252272 -0.652779079 0.495194485	0.243482584 0.124004789 0.116193362 0.186261836 0.141312445	3.505417859 3.505245185 -3.50495298 -3.504631396 3.504252474	0.000455891 0.000456187 0.000456688 0.00045724 0.000457891	0.00491898 0.004919292 0.004921814 0.004924882 0.004929015
REXO 4 APIP SEMAGA MAPKAPK3 RIC8A RETSAT	540.2140767 1561.860361 1160.847084 5697.138184 2468.881097 4683.400047 4405.765756	0.853508198 0.43466719 -0.407752272 -0.652779079 0.495194485 0.328669128 0.566319171	0.243482584 0.124004789 0.116193362 0.186261836 0.141312445 0.093796229 0.161652421	3.505417859 3.505245185 3.50495298 -3.504631396 3.504252474 3.504076143	0.000455891 0.000456187 0.000456688 0.00045724 0.000457891 0.000458194	0.00491898 0.004919292 0.004921814 0.004924882 0.004929015 0.004929401
REXO 4 APIP SEMA6A MAPKAPK3 RICBA	540.2140767 1561.860361 1160.847084 5697.138184 2468.881097 4683.400047	0.853508198 0.43466719 -0.407252272 -0.652779079 0.495194485 0.328669128	0.243482584 0.124004789 0.116193362 0.186261836 0.141312445 0.093796229	3.505417859 3.505245185 -3.50495298 -3.504631396 3.504252474 3.504076143	0.000455891 0.000456187 0.000456688 0.00045724 0.000457891	0.00491898 0.004919292 0.004921814 0.004924882 0.004929015 0.004929401
REXO4 APIP SEMMÉA MAPKAPK3 RICEA RETSAT CDA HSTIHBD TIMEMZ60	540.2140767 1561.860351 1160.847084 5697.138188 2468.881097 4683.400047 4405.765756 136.2950266 7.32460728 890.6603461	0.853508198 0.43466719 -0.407252272 -0.6527793079 0.4595194485 0.328669128 0.566319171 0.836856125 2.087987901	0.243482584 0.124004789 0.116193362 0.186261836 0.141312465 0.093796229 0.161652421 0.23886823 0.595971995	3.505417859 3.505245185 -3.50495298 -3.504631396 3.5040275474 3.504071613 3.033313874 3.50340026 -3.50340026	0.00455891 0.000456187 0.000456688 0.00045724 0.000457891 0.000459808 0.000459322 0.000459805	0.00491898 0.004919392 0.004921814 0.00492882 0.004928901 0.004929401 0.004934887 0.004934887 0.004934887
REXO4 APIP SEMASA MARKAPK3 RICSA RETSAT CDA HST1HBD TMEMESO DDX28	540,2140767 1561,869361 1160,847084 5697,138184 2468,881097 4683,400047 4405,765756 136,2950266 7,334050772 890,6603461 678,1995881	0.833508198 0.43466739 -0.407522727 -0.655279079 0.495194885 0.328669129 0.566319171 0.836856125 2.087987901 -0.336101217	0.243482584 0.12400738 0.116193362 0.18621838 0.141312445 0.093796259 0.161653421 0.2386823 0.595973995 0.093082228	3.505417850 3.50245185 3.50245188 3.50452386 3.50452367 3.50452367 3.50451339 3.503313874 3.50342163 3.50350005 3.503141507	0.000455891 0.000456881 0.000456828 0.00045724 0.00045791 0.000458194 0.000459372 0.000459373 0.000459373 0.00045905	0.00491898 0.004919272 0.004921814 0.004921815 0.00492401 0.00492401 0.004934887 0.004934887 0.004934887
RDXD4 APP SEMMEA MMPKAPKS RICSA RICSA RETSAT CDA HST1HBD TMEMEGE DDX28 MPS300 F FARPS	540.2140767 1561.860351 1160.847084 5697.138184 2468.881077 4663.400047 4405.765756 136.2950766 7.334050728 890.6603461 678.1995881 1272.22907 5725.078096	0.833508198 0.43466719 -0.407752272 -0.652779079 0.495194485 0.32869128 0.566319171 0.838696128 2.087937901 -0.336101217 0.361610711 0.269365386 0.703315100	0.243482584 0.124004788 0.1161938c1 0.186261836 0.186261836 0.141312464 0.093796229 0.161652421 0.23868223 0.599071995 0.093088223 0.1012373991 0.07691333	3.505417850 3.505417850 3.50545188 -3.50645288 -3.50452386 3.50452367 3.50475437 3.50475433 3.50341367 3.50341507 3.50414503 3.5021708 3.502141503 3.502141503	0.000455891 0.000456883 0.000456888 0.00045724 0.000457921 0.00045902 0.00045902 0.00045902 0.00045900 0.00045900 0.00045900 0.000469717 0.000469717	0.00491808 0.004912923 0.004921814 0.004924812 0.004924812 0.00493487 0.00493487 0.00493487 0.00493487 0.00493487 0.00493487
REXO4 APIP SEMMEA MMPKAPKS RICSA RICSA RETSAT COA HST11HID THEAUSO DOC28 MMPS30 FARPS L MRCS6	540,2140767 1551,860351 1160,847084 5697,13184 2468,847084 2468,840007 4683,40007 4683,40007 573,24050728 890,6603461 678,1995881 1272,229277 5725,078096 83,06447661	0.853508198 0.43466719 -0.407252272 -0.653279079 0.495134485 0.338669128 0.566319717 0.38669127 0.33861213 0.33861213 0.33861271 0.338610711 0.269385388 0.703315100	0.283482564 0.12400789 0.116193862 0.16193862 0.186216183 0.14112445 0.093796229 0.1616562421 0.23886823 0.595971995 0.09308223 0.07591333 0.0008427 0.257254791	3.505417859 1.505241385 1.505245138 1.50612388 1.504613188 1.50452476 1.504076143 1.50313877 1.50313870 1.50313870 1.50313870 1.50314501 1.50324561 1.503241561 1.503241561 1.503241561	0.00455891 0.0045688 0.00045688 0.00045724 0.00045724 0.000458194 0.000458194 0.000459187 0.000459187 0.000459187 0.000469549 0.000469549 0.000469549 0.000469549	0.00491898 0.004919293 0.0049293181 0.0049248915 0.0049248915 0.004929481 0.004929481 0.0049394887 0.004934887 0.004934887 0.004934887 0.004934887
RDXD4 APP SEMMEA MMPKAPKS RICSA RICSA RETSAT CDA HST1HBD TMEMEGE DDX28 MPS300 F FARPS	540.2140767 1561.860351 1160.847084 5697.138184 2468.881077 4663.400047 4405.765756 136.2950766 7.334050728 890.6603461 678.1995881 1272.22907 5725.078096	0.833508198 0.43466719 -0.407752272 -0.652779079 0.495194485 0.32869128 0.566319171 0.838696128 2.087937901 -0.336101217 0.361610711 0.269365386 0.703315100	0.243482584 0.124004788 0.1161938c1 0.186261836 0.186261836 0.141312464 0.093796229 0.161652421 0.23868223 0.599071995 0.093088223 0.1032373991 0.07691333	3.505417850 3.505417850 3.50545188 -3.50645288 -3.50452386 3.50452367 3.50475437 3.50475433 3.50341367 3.50341507 3.50414503 3.5021708 3.502141503 3.502141503	0.000455891 0.000456883 0.000456888 0.00045724 0.000457921 0.00045902 0.00045902 0.00045902 0.00045900 0.00045900 0.00045900 0.000469717 0.000469717	0.00491808 0.004912923 0.004921814 0.004924812 0.004924812 0.00493487 0.00493487 0.00493487 0.00493487 0.00493487 0.00493487
REXO4 APIP SEMMEA MMPKAPKS RICSA RICSA RETSAT COA HST11HID TYEAUGO DOK28 MRPS30 FARPS LIRICSG RPL18 IN 0 80C EEF1AWMT1	540.2140767 1554.860351 1160.847084 5697.1318.48 2468.83400047 44605.765756 136.2950266 7.324050772 890.6603461 (678.199588) 1224.22907 5725.08447661 24785.68754 689.34504 463.3788145	0.833508198 0.43466719 -0.407752272 -0.552779079 0.495194485 0.33869128 0.566319777 0.836565122 2.087987901 -0.326101271 0.36610771 0.36610771 0.36610771 0.36610771 0.36610771 0.36610771 0.36610771 0.36610771 0.36610771	0.24342564 0.12404789 0.116193862 0.16193862 0.16193862 0.161953621 0.161953621 0.23886822 0.093796229 0.093786229 0.093988223 0.093988223 0.093988223 0.093988223 0.103237399 0.0769133 0.0769133 0.0769133	3.505417859 1.505461386 3.5045298 1.550461386 3.5045298 3.504561386 3.504564 3.504564 3.50313874 3.50341261 3.503200026 3.503213874 3.50341261 3.50342631 3.50342631 3.50342631 3.5034271088	0.00455891 0.0045688 0.0045688 0.0045724 0.0045728 0.0045728 0.00459187 0.00459187 0.00459187 0.00459187 0.0046971 0.0046971 0.0046971 0.0046981 0.0046981 0.0046981 0.0046981 0.0046981	0.00491808 0.00491808 0.0049192181 0.004921812 0.0049248015 0.0049248015 0.004934887 0.004934887 0.004934887 0.004934887 0.004934887 0.004934887 0.004934887 0.004934887 0.004934887 0.004934887 0.00493687
REXID4 APP SEMMEA MMPKAPKS RICSA RICSA RETSAT CDA HST1H9D DX28 MMPS30 DX28 MMPS30 LIREGG6 BPS18 BN 080C	540.2140767 1561.860351 1160.847084 5697.138184 2468.881077 4663.400047 4405.765756 136.2960766 7.334050728 890.6603461 678.1995881 1274.229207 5725.078006 83.30644761 24765.68755 689.3415044	0.833508198 0.43466719 -0.407752272 -0.652779079 0.455194485 0.32869128 0.566319171 0.838686122 2.087937901 -0.326101217 0.361610711 0.269363188 0.703315104 -0.900739379 0.534481159 0.42022633	0.243482584 0.124004788 0.1161938c1 0.186261836 0.16116378c2 0.161652421 0.23868223 0.599571999 0.093088223 0.103237391 0.07691333 0.20082427 0.337524791 0.166674009	3.505417850 3.505417850 3.50545188 -3.50645288 -3.50452386 3.50452367 3.504075431 3.503313874 3.503313874 3.50341507 3.504141507 3.5071088 3.5071088 3.5071088 3.5071088 3.5071088 3.5071088 3.5071088 3.5071088 3.5071088	0.000455891 0.000456883 0.000456888 0.00045724 0.00045724 0.000457921 0.000457921 0.000459008 0.000459922 0.000459921 0.000459921 0.000459921 0.000459923 0.000459923 0.000469721 0.000466734	0.00491898 0.0049192181 0.004921812 0.004921812 0.004922812 0.004929011 0.004924822 0.004934887 0.004934887 0.004934887 0.004934887 0.004934887 0.004934887 0.004934887 0.004935206
REXIO4 ARIP ARIP SEMMAA MAPIARIS BIGGA RETSAT COA HESTHED TWENDED DOZZB MRESJO TWENDED RESJO RES	540,2140767 1561,860361 1160,847084 5697,1381,86 5697,1381,86 5468,881097 4683,840047 4403,7575756 136,2950266 7,334050728 880,6603461 (678,199588) 1274,229207 5723,078096 83,0447561 24755,875-6 669,3415046 463,3788145 1938,860789 2777,185286 295,860561	0.833508198 0.43466719 -0.407532772 -0.553779079 0.49519479 0.49519479 0.338699128 0.5663191771 0.336691271 0.336610711 0.269386385 0.703315109 0.5534841159 0.43022533 0.4322705316 -1.489763175 0.20902657	0.24342564 0.12400789 0.116193862 0.116193862 0.116193862 0.14312445 0.093796229 0.161652421 0.23886823 0.093796229 0.093988232 0.003237391 0.07691333 0.07691333 0.0769133 0.10165674000 0.1203675739 0.123675739 0.123675739 0.42844727	3.505417859 1.5054417859 1.5054417859 1.505451386 1.50452747 1.504076143 1.504076143 1.503133874 1.50313876 1.50314507 1.	0.000455891 0.000456881 0.00045688 0.00045724 0.00045726 0.000459127 0.000459127 0.000459127 0.000459127 0.00046971 0.00046971 0.00046971 0.00046971 0.00046759 0.00046759	0.00491808 0.004919234 0.004921813 0.00492183 0.004924888 0.004924888 0.004934887 0.004934887 0.004934887 0.00493100 0.00493100 0.00493100 0.00493100 0.00493100 0.00493100 0.00493100 0.00493100 0.00493100 0.00493100 0.00493100 0.00493100 0.00493100 0.00493100 0.00493100
REXIDA APP SEMMEA MAPKAPKCI RICGA RICGA RETSAT COA HISTIHOD DIX28 MPDS30 FARBFS LIRICGG RICGG RICGA RICGA RICGA COCC COCC COCC COCC COCC COCC COCC C	540.2140767 1551.860351 1160.847084 5697.181848 2468.881097 4663.400047 4405.765756 136.2903266 7.324059772 890.5607461 1277.229297 5725.078098 83.06447661 24755.86756 683.3415044 463.3788145 1934.8850750 2777.185286	0.853508198 0.45466719 -0.407252272 -0.653779079 0.455194485 0.328669128 0.566319177 0.386856125 2.087987901 -0.3251017 0.361610711 0.269386388 0.703315104 0.900793678 0.5854841190 0.4327093618	0.283482586 0.11400789 0.116193862 0.116193862 0.186216183 0.141112465 0.093796229 0.161652421 0.23886223 0.099779999 0.099082223 0.092327391 0.07691333 0.20082427 0.186674000 0.120036749 0.123675739 0.42844772 0.059763708	3.505417859 3.5054517859 3.505451859 3.50465289 3.50465289 3.504652876 3.504676143 3.503318276 3.50341265 3.50342165 3.50246861 3.50	0.00455891 0.00456881 0.00045688 0.000457281 0.000456881 0.000457892 0.000457892 0.000459322 0.000459322 0.000459321 0.000469340 0.000469340 0.000469340 0.000469340 0.000469340 0.000469340 0.000469340 0.000469340 0.000463831	0.00491891 0.004919291 0.00492181 0.00492181 0.00492981 0.00492981 0.00492981 0.00493888 0.00493888 0.00493888 0.00493888 0.00494888 0.00494888 0.00494888 0.00494888 0.004953001 0.004953001 0.004953001 0.00496888 0.00496888 0.00496888
REXIO4 APP SEMMEA APP SEMMEA MAPPARS BICSA RESAT CDA HESTHED TWENDED	540,2140767 1561,860361 1160,847084 5697,138184 2468,381077 4463,340047 4403,757576 136,2920366 7,334050728 890,6603461 1274,229207 5725,078096 83,0447661 24765,68754 688,3415044 463,3788145 1394,860788 2777,185286 295,860561 405,5135391 253,33131891	0.833508198 0.43466719 -0.40753277 -0.552779079 0.49519450 0.328699128 0.566319171 0.83656127 0.336610711 0.269386380 0.70331510 0.70331510 0.402027633 0.432709516 -1.489761756 0.209026657 -0.793868866 -0.883532786 -0.883532786 -0.883532786 -0.883532786 -0.883532786 -0.883532786 -0.292756183	0.24342564 0.12400738 0.116133852 0.116133852 0.116133852 0.13625838 0.141312445 0.093796229 0.161652421 0.23886823 0.093978929 0.093088223 0.102377913 0.07691333 0.00282472 0.257254791 0.166674009 0.110016740 0.112016740 0.123675739 0.23242444 0.0872232444	3.505417859 1.505451386 1.505451386 1.50452746 1.50461386 1.50452747 1.504076143 1.50313387 1.50313387 1.503500026 1.50313870 1.50313870 1.5031450	0.000455891 0.000455891 0.00045688 0.00045724 0.00047578 0.000459187	0.00491898 0.00491281 0.00491281 0.00492181 0.00492181 0.00492381 0.00492881 0.00493881 0.004938881 0.004934881 0.004934881 0.004934881 0.004934881 0.004935100 0.004951001 0.004951001 0.004951001 0.004951001 0.004951001 0.004951001 0.0050056601 0.00500566881
REXIDA APIP SEMMEA MAPKAPKG RICSA RICSA RICSA RETSAT COA HST1HSD HST1HSD DX28 MRPS30 FABPS LIREGGG RR1.8 RICSB RIC	540.2140767 1551.800315 1160.847084 5697.181848 2466.851097 4665.400007 4665.400007 4605.765756 136.290266 7.324050728 890.6603461 1272.229077 5725.078096 83.0647661 24765.87973 6683.415044 463.3788145 1934.860738 277.185286 295.86065031	0.833508198 0.43466719 0.407523272 0.652779079 0.495194485 0.338669128 0.566319717 0.838656125 2.087987901 0.3356102711 0.269385388 0.7033351047 0.356100711 0.269385388 0.7033351047 0.5834811199 0.430272633 0.432709516 1.488763156 0.79365855786 0.303777125	0.283482564 0.13400789 0.116139362 0.186761383 0.141312445 0.093786729 0.161653421 0.38868723 0.595971995 0.093088727 0.0759133739 0.07691333 0.2002427 0.152574791 0.166674000 0.120016749 0.123675739 0.428447221 0.059763708 0.22730234644 0.085722157	3.505417859 1.505241385 1.505241385 1.50612388 1.504613186 1.504623476 1.504613186 1.50452476 1.50461613 1.504576144 1.504576144 1.5045761	0.00455891 0.0045688 0.00045724 0.00045724 0.00045724 0.00045724 0.000459187 0.000459187 0.000459187 0.00046971 0.00046753 0.00046753 0.00046753 0.00046753 0.00046753 0.00046755 0.00046755	0.00491808 0.004919293 0.004921813 0.004921831 0.004924883 0.004924883 0.004924883 0.004934887 0.004934887 0.004934887 0.004935000 0.004941805 0.004941805 0.0049518000 0.0049675000 0.0049675000 0.0049675000 0.0049675000 0.0049675000 0.0049675000 0.0049675000 0.0049675000 0.0049675000 0.0049675000 0.0049675000 0.0049675000 0.0049675000
RDX04 APP APP SEMMA MAPHAPKS RICSA RESAT CDA HISTHED TMENDER DDX28 MRP330 FARPS LIRECS6 RP1.18 N 0.90C EET JAKMT1 CTNNA3 PSMG6 APPSAPS FIRECS6	540,2140767 1561,860361 1160,847084 5697,18184 2468,881007 4683,400047 4405,765756 7,324050728 890,6603461 678,1995881 1274,229207 5772,5078006 83,0447661 24765,68754 688,3415044 463,3788145 1994,880785 2777,185286 2795,060561 405,1315291 253,33189,115897 594,2309762 3389,915897 103,071284 180,336441	0.833508198 0.43466719 -0.40752277 -0.553779079 0.4951945 0.325696128 0.566319171 0.83656127 0.335696128 0.70331510 0.269386386 0.70331510 0.402022633 0.432705516 -1.46876175 0.209026657	0.24342564 0.124007280 0.116133862 0.116133862 0.161312465 0.093796229 0.161652421 0.23856823 0.093796229 0.09308223 0.093278229 0.09308223 0.09237879 0.09608203 0.100237791 0.166674009 0.11003674009 0.1200367400 0.1200367400 0.1200367400 0.1200367400 0.1200367400 0.1200367400 0.1200367400 0.1200367400 0.1200367400 0.1200367400 0.1200367400 0.1200367400 0.1200367400 0.09380171 0.08380171 0.08380171 0.08380171 0.08380171 0.0187160683	3.505417859 3.505417859 3.50545188 3.50452786 3.50452787 3.504076143 3.504076143 3.504076143 3.50313874 3.50313877 3.50371058 3.50314507 3.50271058 3.50214553	0.000455891 0.000451819 0.000451819 0.000451819 0.000459187	0.00491808 0.004918181 0.00491814 0.004921814 0.004921814 0.00492810 0.00492801 0.00492801 0.00493887 0.004934887 0.004934887 0.004934887 0.004934887 0.004935180 0.00495110 0.00495110 0.00495110 0.00495110 0.00495110 0.00506801
REXIO4 ARIP ARIP SEMMEA MAPPLAPIS BICGA RETSAT CDA HESTHED THEMOSO DOCUS MMPS30 PARPS INCOME	540.2140767 1554.860351 1160.847084 5697.1318.04 2468.847084 2468.8470047 4463.7657558 138.2950266 7.324050778 890.6603461 (678.199588) 1272.22970.5575.078006 83.36447661 24755.87576 689.3415044 463.3788145 1994.860739 277.185288 295.860561 4055.1351369 594.2399752 3388.915892	0.833508198 0.43466713 0.43466713 0.407523272 0.653279079 0.495194485 0.338669128 0.566319771 0.386856125 2.087987901 0.335610271 0.336610271 0.36610071 0.269386386 0.7033751027 0.5343811190 0.430722633 0.432709516 0.430722633 0.432709516 0.20396557 0.794688866 0.2033757262 0.303772726 0.303777263	0.248482586 0.13400789 0.116139362 0.186261838 0.141312445 0.093796279 0.1616552421 0.23886872] 0.059571995 0.093088723 0.0257224791 0.166674000 0.12007678 0.123675739 0.428447227 0.059753708 0.227203386 0.227203386 0.238262479 0.058868171 0.0582624549	3.505417859 1.505245185 1.505245185 1.50612788 1.504651386 1.504652476 1.504651476 1.504661476 1.50466	0.00455891 0.00455891 0.0045688 0.00045724 0.0045724 0.0045724 0.0045724 0.00459187 0.000459187 0.000459187 0.000459187 0.000459187 0.000459187 0.000459187 0.00046574 0.00046574 0.00046574 0.000467574 0.000467574 0.000467574 0.000467574	0.00491808 0.004919234 0.004921813 0.004921838 0.004924888 0.0049248888 0.0049248888 0.004929401 0.0049348888 0.0049348888 0.0049348888 0.0049348888 0.004935180 0.004951888 0.004951888 0.004951888 0.004951888 0.004951888 0.0049518888 0.0049518888 0.00495188888 0.004951888888888888888888888888888888888888
RIXIO4 APP APP SEMMAN MAPIANCIS RICSA RICSA RICSA RICSA RICSA THERDED DUCIS BMS1146D DUCIS FARDS LIRECGE FARDS LIRECGE RICSA RICSA RICSA RICSA RICSA RICSA RICSA RICSA LIRECGE FILANMTI CTINNA3 PSIMOS ARRICAPAS FILAL LICENA SEMMAN SEMM	540,2140767 1561,860361 1160,847084 5697,18184 2468,881070 4468,781074 4460,7675756 7,324050728 890,6693461 678,1959681 1274,229207 5725,078096 83,0447661 24765,68754 468,3415044 461,3788145 1934,860789 277,185,086 295,860561 405,135,791 253,33189,11892 103,073,2641 194,1800851 103,073,2641 195,1800851 103,073,2641	0.833508198 0.43466719 -0.407752277 -0.553779079 0.49519468 0.32669128 0.566319171 0.83658512 -0.087987901 -0.336100711 0.269386386 0.703315100 -0.900736678 0.583481159 0.42022633 0.432709516 -1.488761765 0.2090756677 -0.758468869 -0.883532786 0.3847726403 0.347726403 0.646793156 0.891949838 0.659199883	0.24342564 0.12400728 0.11603562 0.161635422 0.161635422 0.161655422 0.25856823 0.59571959 0.09308222 0.101237791 0.0760133 0.0008247 0.25754791 0.166674009 0.1120036740 0.12003674 0.05850361 0.25550688 0.181555035 0.18156083	3.505417859 3.505417859 3.50545188 3.50452788 3.50452784 3.504075143 3.504076143 3.504076143 3.50313874 3.50311507 3.50311507 3.50311507 3.502141509 3.502141509 3.502141509 3.502141509 3.502783178 3.409751264 3.40952297 3.40952327 3.40952327 3.40952327 3.40952327 3.40952327 3.40952327 3.40952327 3.40952327 3.40952327 3.40952327 3.40952327 3.40952327 3.40952327 3.40952556 3.40952565 3.40952565 3.40952565 3.40952565 3.40952565	0.000455891 0.000455891 0.00045724 0.00045724 0.00045724 0.00045734 0.00045734 0.000459127 0.000459127 0.000459127 0.000459127 0.000459127 0.000459127 0.000459127 0.000459127 0.000459127 0.000459127 0.00045738 0.00045738 0.00045738 0.00045738 0.00047578 0.00047718 0.00047718	0.00491808 0.00491818 0.004921818 0.004921818 0.004921818 0.004924818 0.004924818 0.004924818 0.004924818 0.004924819 0.004934887 0.004934887 0.004934887 0.004934887 0.004934887 0.004934887 0.004934887 0.004934887 0.004934887 0.004934887 0.004934887 0.004934887 0.004934887 0.004934887 0.004934887 0.004934887 0.004934887 0.004934887 0.004934887 0.00505887 0.005068837 0.00508837 0.00508837 0.0050814937 0.0050814937 0.005114937
REXID4 APP SEMMEA MAPKAPKS RICSA MESTART CDA HST1HBD HST1HBD DDI28 MPS330 DDI28 MPS330 FARPS LIREGG6 BST1.B INO 80C EEF LAWATT CTN NAS PSMC6 ARGARTS PSMC6 ARGARTS PSMC6 ARGARTS UFSP1 LCMT2 LCM	540.2140767 1561.860361 1160.847084 5697.181848 2466.881097 4663.400047 4405.765756 138.2950266 7.324050728 890.6603461 (678.199588) 1272.4229077 5725.078006 83.36447651 24705.68753 24705.68753 24705.68753 24705.68753 2571.85288 259.8660561 4055.1351896 594.2390763 338.915892 103.071284 1803.378441 1994.1800851 1994.1800851 1911.7454764 14100851 1911.7454764 14100851 1911.7454764 14100851 1911.7454764 14100851 1911.7454764 14100851 1911.7454764 14100851 1911.7454764 14100851 1911.7454764 14100851	0.833508198 0.434667315 0.434667315 0.407523272 0.653279079 0.405134485 0.338669128 0.566319717 0.8386856125 2.087987901 0.3356102171 0.366100711 0.2691861388 0.703315101 0.909793678 0.5584881190 0.40222633 0.432709516 1.489876126 0.7034858869 0.885352786 0.38535286 0.38535286 0.38535286 0.38535286 0.38535286 0.38535286 0.38535286 0.38535286 0.38535286 0.38535286 0.38535286 0.38535286	0.28382584 0.13400789 0.116133862 0.16133862 0.161313465 0.083786729 0.161653221 0.28386822 0.2937995 0.09308272 0.257254791 0.16667400 0.120377967 0.227302339 0.22730238 0.22730238 0.22730238 0.22730238 0.22730238 0.22524470 0.08380817, 0.08380817, 0.105770475 0.185150683 0.185555058	3.505417859 1.505245185 1.505245185 1.50612788 1.50465188 1.50452874 1.504676143 1.504676143 1.504676143 1.50314577 1.50500026 1.50314507 1.503	0.000455891 0.000455891 0.00045726 0.00045726 0.00045726 0.00045726 0.000459187 0.000459187 0.000459187 0.000459187 0.000459187 0.000459187 0.000459187 0.000459187 0.000459187 0.000465391 0.000465391 0.000465391 0.000465391 0.000465391 0.000465391 0.000465391 0.00046391 0.00046391	0.00491898 0.00491898 0.00491818 0.004921813 0.004921813 0.0049248813 0.0049248813 0.0049248813 0.004934887 0.004934887 0.004934887 0.004934887 0.004935100 0.004941950 0.004941950 0.0049671888 0.004967189 0.0050505050 0.0050505050 0.0050505050 0.005050505
RIXIO4 APP APP SEMMAN MAPIANCIS RICSA RICSA RICSA RICSA RICSA THERDED DUCIS BMS1146D DUCIS FARDS LIRECGE FARDS LIRECGE RICSA RICSA RICSA RICSA RICSA RICSA RICSA RICSA LIRECGE FILANMTI CTINNA3 PSIMOS ARRICAPAS FILAL LICENA SEMMAN SEMM	540,2140767 1561,860361 1160,847084 5697,18184 2468,881070 4468,781074 4460,7675756 7,324050728 890,6693461 678,1959681 1274,229207 5725,078096 83,0447661 24765,68754 468,3415044 461,3788145 1934,860789 277,185,086 295,860561 405,135,791 253,33189,11892 103,073,2641 194,1800851 103,073,2641 195,1800851 103,073,2641	0.833508198 0.43466719 -0.407752277 -0.553779079 0.49519468 0.32669128 0.566319171 0.83658512 -0.087987901 -0.336100711 0.269386386 0.703315100 -0.900736678 0.583481159 0.42022633 0.432709516 -1.488761765 0.2090756677 -0.758468869 -0.883532786 0.3847726403 0.347726403 0.646793156 0.891949838 0.659199883	0.24342564 0.12400728 0.11603562 0.161635422 0.161635422 0.161655422 0.25856823 0.59571959 0.09308222 0.101237791 0.0760133 0.0008247 0.25754791 0.166674009 0.1120036740 0.12003674 0.05850361 0.25550688 0.181555035 0.18156083	3.505417859 3.505417859 3.50545188 3.50452788 3.50452784 3.504075143 3.504076143 3.504076143 3.50313874 3.50311507 3.50311507 3.50311507 3.502141509 3.502141509 3.502141509 3.502141509 3.502783178 3.409751264 3.40952297 3.40952327 3.40952327 3.40952327 3.40952327 3.40952327 3.40952327 3.40952327 3.40952327 3.40952327 3.40952327 3.40952327 3.40952327 3.40952327 3.40952556 3.40952565 3.40952565 3.40952565 3.40952565 3.40952565	0.000455891 0.000455891 0.00045724 0.00045724 0.00045724 0.00045734 0.00045734 0.000459127 0.000459127 0.000459127 0.000459127 0.000459127 0.000459127 0.000459127 0.000459127 0.000459127 0.000459127 0.00045738 0.00045738 0.00045738 0.00045738 0.00047578 0.00047718 0.00047718	0.00491891 0.00491281 0.00491281 0.00492181 0.00492181 0.00492481 0.00492481 0.00492481 0.004934881 0.004934881 0.004934881 0.004934881 0.004934881 0.004934881 0.004934881 0.004935100 0.004961101 0.004961101 0.004961101 0.004961101 0.004961101 0.004961101 0.00506801 0.005068032 0.005088032 0.005088032 0.00508032

March	ITG A3	3808.395936	0.945804372	0.27109928	3.48877493	0.00048524	0.005139356
14,000 1,0							0.005160086
March Marc							0.005161632
							0.00519545
1906 1906							0.005201941
1965 1965							0.00520855
Color					0.10000		0.005215479
March							0.005232642
1997 1998 1998 1999							0.005232642
1.000 1.00							0.005262321
100.000							0.005269358
1400 1400							0.005276251
1905.00 1979							0.005276251
1.00							0.005280945
1965 1964 1965 1966							0.005280945
1909							0.005280945
1.15							0.00529856
1.000							0.005310129
MACRO							0.00531303
MARCINE MARC							0.005326177
1921 1921							0.005326177
1905 1907							0.005326177
Control Cont							0.005326177
1.000.0000 1.000.0000							0.00532625
Dec. Dec.	DG CR6L	3320.553523	0.503610163	0.145088394	3.471057542	0.000518413	0.005385474
1975 1980							0.005385474
MATERIAL							0.005395217 0.00541293
							0.00541293
1975 18.5							0.005424148
MATERIAN		282.2596453	-0.474811582		-3.467394195		0.005441013
Section Sect	ZP3						0.005442133
CAMPIC 11281272							0.005446728 0.005451658
1997 1997 1998 1997 1998		172.0112278					0.005454116
1911							0.005458975
NUMBER CONTROL CONTR							0.00549909
Process 127, 1277							0.005504835
1900 74.15.11.22							0.005571684
SET							0.005600235
Color							0.005600235
MERIT							0.005617519
Config. 14.4486271							0.00563927
March Sales Sale							0.005642658
Series	TEPP	35.68153135					0.005667533
COMPAND 1.16973198							0.005668731
SECTION SCHOOL							0.005668733
CASC PRESENTE							0.005668731
SIGNAL ST. NOLE 0.185797							0.005668731
CAMPRIX							0.005689306
STITE							0.005689306
ADMINISTRATES ADMINISTRATE							0.005707994
STAGE 38.5.09.1136							0.005712533
1981							0.005712533
TARKES \$5.5 24500 0.45945139							0.005714868
\$1.000.000.000.000.000.000.000.000.000.0							0.005719477
1803 1803 1803 1805 0.350007325 0.10152921 0.44727244 0.00055559 0.005756 175313 2525 25401 0.57862507 0.17421615 3.44760561 0.000565950 0.005756 17641 1766 27207 0.3940153 0.1465501 3.447609439 0.000566861 0.005746 1766 27207 0.3940153 0.15559249 3.446224381 0.00056867 0.00575 1766 2 2265 75072 0.53553128 0.15559249 3.446224381 0.00056867 0.00557 0.00557 0.00575 0.							0.005734808
TPSIII							0.005735757
PAIL 1786.27207							0.005736542 0.005736542
COATI	FAN1	1786.272027	-0.39480153	0.114535011		0.000566861	0.005743086
NORT 3063.05833							0.00575633
PUMB 704.0321684 0.510742965 0.148212841 3.4460100 0.000568929 0.005756 CD2 2894.97787 0.88999197 0.3533777 3.444994665 0.00571071 0.005766 F84 2583.40369 0.8733327 0.179731894 3.4444200 0.0057273 0.005778 RBMRA 562.280086 0.31973327 0.02830994 3.44424009 0.00577837 0.005778 RBMRA 562.280086 0.430281067 0.124871818 3.444254009 0.00577837 0.005778 YPF2 1808.112499 0.400281067 0.124871818 3.444524009 0.00575529 0.005765 STOMAZ 3005.454122 0.305000588 0.104662445 3.441524304 0.00577291 0.005805 JUN 371.388304 0.686037034 0.199131999 3.441510708 0.005977291 0.005817 AIPIDB 1596.040568 -0.894450577 0.25939105 -3.441107084 0.00597731 0.005817 AIPIDB 1596.040568 -0.894450577 0.2593274 3.440536971 <	MRPL4	3063.058331	0.522133128	0.15153325	3.445667048	0.000569652	0.005756838
CU22 2894 92798							0.005756838
BBMBA							0.005756838 0.005766719
YPF2							0.005775693
PSP							0.005776209
UCN 171.8836.02 0.6860.1705 0.19911569 1.441961851 0.00577512 0.00581 AIP108 1596.040565 0.8364450577 0.2593105 1.441107084 0.00579319 0.055827 MWWPLID1 1326.051488 0.871577607 0.25931050 1.341107084 0.00559319 0.055827 MWWPLID1 1326.051488 0.931577607 0.25931050 1.341107084 0.00558127 0.00558061 0.055837 ACOL25511 299.641862 0.93467179 0.271707389 1.439994025 0.00581727 0.005807 ATREP\$ 7.812.58625 0.33457424 0.097513915 1.343961744 0.00558327 0.005887 NTM 3790.55158 0.889464416 0.260227341 3.4380108 0.00588704 0.00588020 0.0058827 SIDMAD 1160.48702 0.83938883 0.2327627331 3.43968577 0.00588003 0.055882 0.0588004 0.0058827 MWG 2 726.7198018 0.79995883 0.2327627331 3.439695968 0.0058829 0.055882 0.059882 0	PPP1R12B	2883.727014	-0.607262404	0.176405549	-3.442422337	0.000576529	0.005805934
APPLIES 1596.040566							0.005805934 0.00581265
MODIZESTI 299.641840							0.00581265 0.005827861
APPSAP2 788.25825 0.135474726 0.097531915 3.439617484 0.000582337 0.005850 NTM 3790 951585 0.8394664416 0.260227341 3.4380103 0.00585003 0.005882 STMMD 11660.4705 0.839518883 0.250025234 3.438708377 0.00585003 0.05588 AND 4 726.7198026 0.079995883 0.2227672311 3.438955966 0.00588292 0.005889 NND 4 726.7198026 0.079995883 0.222767231 3.438955966 0.00588292 0.005889 NND 4 726.7198026 0.079959583 0.222767231 3.438955966 0.00588292 0.005989 NND 5 9191.445894 0.044785796 0.129474377 0.14526605 0.00599177 0.005939 NND 95 0.05191812811 0.488827089 0.13952849 0.13952849 0.0059179 0.00599179 0.005939 NND 95 0.05191812811 0.488827089 0.13952849 0.13952849 0.13952849 0.00599179 0.00599179 0.00599175 0.005917							0.005836967
NTM 3790 55158							0.0058455
NO.4 726.7198020 -0.79995803 0.222762931 -1.438955905 0.000588292 0.005888291 1799C 2159.405.757 0.696470355 0.309930661 3.45563044 0.000588292 0.055983 1012 1917.445894 0.44785796 0.12967376 3.45563044 0.00058958 0.055983 1012 1917.445894 0.44785796 0.12967376 3.45563044 0.000589592 0.055983 1012 1917.445894 0.44785796 0.13967376 3.45563049 0.005959172 0.055983 1012 1917.445894 0.468327068 0.13652849 3.43904779 0.00594953 0.05595 1012 1917.445894 0.468327068 0.13652849 3.43904779 0.005959664 0.059959 1012 1917.445894 0.00595964 0.1596979 0.143911079 0.00059116 0.0059116 1012 1917.445494 0.0569116 0.0569116 0.056911 1012 1917.445494 0.0569116 0.0569116 0.056911 1012 1917.445494 0.0569116 0.0569116 0.056911 1012 1917.445494 0.0569116 0.0569116 0.056911 1012 1917.445494 0.0569116 0.056911 1012 1917.445494 0.056911 1012 1917.456494 0	NTM	3790.951585	-0.894664416	0.260227343	-3.4380108	0.000586004	0.005882066
TYPKC 2150.405257 0.690470355 0.200930561 3.436363044 0.00058988 0.055088 GN12 1917.445894 0.44787796 0.129476376 3.435266036 0.00591972 0.005939 NOP56 5936.81281 0.48827086 0.13632849 3.43309479 0.00059963 0.005593 ISS 7324.049689 -0.447528485 0.13633869 -3.433581273 0.000595664 0.005593 ACKS 567.2406385 0.35352846 0.156196794 3.43110496 0.0060116 0.006622 0.000622 0.000622 0.006622 0.006622 0.006622 0.006622 0.006622 0.006622 0.006622 0.006622 0.006622 0.006622 0.006622 0.006622 0.006622 0.006622 0.006622 0.006622 0.006622 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>0.005898602</th>							0.005898602
NOPS6							0.005898602
155 7324.049689		1917.445894	0.444785796	0.129476376	3.435266036	0.000591972	0.005929054
ADDIS 567.2406385 0.5552846 0.156196794 1.431110496 0.00060116 0.0060116 0.006011							0.005955672
NACCI 5980.25573 0.302113334 0.088071042 1.430336771 0.000602833 0.006021 163572 888.9626989 1.229093265 0.35601692 1.429612582 0.0066444 0.006034 0.00602833 0.006021 17070.35927 0.40204132 0.158161050 3.429612582 0.0066444 0.006034 0.0060283 0.006028							0.006010831
H63577 808.9626688 1.20993269 0.356014925 3.429612582 0.000604444 0.006034 W581 11701,93997 0.542064137 0.158110699 -3.428512074 0.0006056 0.0060568 0.0006688 0.0006688 0.0006688 0.0006688 0.0006688 0.0006688 0.0006688 0.0006688 0.0006688 0.0006688 0.0006692 0.0006692 0.0006692 0.0006692 0.0006692 0.0006692 0.0006692 0.0006692 0.0006692 0.0006692 0.0006692 0.0006692 0.0006692 0.0006692 0.000669338 0.000692 0.000669338 0.000693 0.000669338 0.000693 0.00069338 0.00069338 0.000693 0.00069338 0.00069338 0.000693 0.00069338	MAP4K4	27748.4543	-0.644873384	0.18798114	-3.430521717	0.000602422	0.006020624
WSBI 1170193997 -0.542084132 0.158110609 -3.428512074 0.0006669 0.006652 BISANT2 655.5318817 0.62705799 0.182893984 3.428530458 0.00666858 0.006652 LENG 8 18420.29521 -0.392017304 0.114351081 -3.428190813 0.006667619 0.006667 HWO 448.5057524 0.95508015 0.27282542 3.427423491 0.0066938 0.006663 LETM 111.0661498 0.876786685 0.25581138 3.427475666 0.00609219 0.006663 LETM 508.6229092 1.45068130 0.272823782 3.427625272 0.00608914 0.006663 CUNDE 129.5681181 0.76510841 0.22933782 3.42761272 0.00608914 0.006663 CUNDE 2 2649.86130 0.661195741 0.178372974 3.42650474 0.00661404 0.0066779							0.00602146
LENCE 1840.2952	WSB1	11701.93597	-0.542084132	0.158110609	-3.428512074	0.0006069	0.00605224
HWAD 448.507529 0.935089013 0.272825641 3.427423491 0.000609338 0.006093 LRTML 111.0641698 0.876786685 0.25581133 3.427478556 0.00606219 0.006063 1.7R 50.86229072 1.45068100 0.422332782 3.427612272 0.000608914 0.006063 CLIDIOZ 129.5681181 0.786308481 0.229433154 3.427164999 0.00506954 0.006067 MAZEL2 2649.861305 0.611195741 0.178372974 3.42650474 0.000611404 0.006077							0.00605224 0.00605614
LRTML 111.0461490 0.876786685 0.255811136 3.427476566 0.000693219 0.00069321 ILTR 508.6229092 1.450681305 0.422233782 3.427612272 0.00069814 0.0006995 CLINIGU 129.548181 0.765108481 0.229435154 3.427140999 0.00069954 0.00069954 MMZ012 2649.861303 0.611195741 0.178372974 3.426504174 0.000611404 0.006677							0.006056141
CLDNIG2 129.5681181 0.786308481 0.229435154 3.427149099 0.000609954 0.00606 MAGQL2 2649.861304 0.611195741 0.178372974 3.426504174 0.000611404 0.006077	LRTM1	111.0461498	0.876786685	0.255811139	3.427476566	0.000609219	0.006063439
NMD2L2 2649.861304 0.611195741 0.178372974 3.426504174 0.000611404 0.006077							0.006063439
NBP523 2273.861927 0.320097414 0.093438767 3.425745273 0.000613115 0.006091							0.006077439
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ABCF1	3553.900079	0.355834326	0.103913605	3.424328572	0.000616321	0.006109829
EIF1	34594.24351	0.351281581	0.102580707	3.424441033	0.000616066	0.006109829
RABG G TA	1569.510756	0.46220272	0.135014429	3.423357953	0.000618526	0.006128392
YKT6	7807.191647	0.40035306	0.116958104	3.423046772	0.000619234	0.006132116
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MFSD3	1184.067475 2572.773837	0.566798846 0.479796592	0.165605459	3.422585515 3.422034666	0.000620286	0.00613681
NOL6 ARAF	2862.573861	0.441700406	0.140207987 0.129072548	3.422109597	0.000621544 0.000621373	0.006141787 0.006141787
CC2D2B	51.66942333	-0.858653131	0.250935257	-3.421811424	0.000622054	0.006143231
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N SL1	1743.770333	-0.409915333	0.120019327	-3.415411018	0.000636858	0.006256217
LRCH1	570.5676511	-0.512654897	0.150129793	-3.414744583	0.000638418	0.00625963
PRKD1	528.5824256	-0.647378344	0.189583892	-3.41473285	0.000638446	0.00625963
CLEC17A	34.86512667	-1.221382677	0.357685598	-3.414682286	0.000638564	0.00625963
SN RPB	4241.0719	0.610122277	0.178657284	3.41504283	0.00063772	0.00625963
SIG LEC7	550.7179709	1.032308566	0.302440656	3.413259909	0.000641907	0.00628905
BTN 3A3	1467.258168	-0.434589038	0.12739035	-3.411475353	0.000646123	0.006323759
BLCAP	5322.42871	0.423399545	0.124110584	3.411470101	0.000646136	0.006323759
ZNF79	307.2046415	0.476084124	0.13959116	3.410560689	0.000648295	0.006341518
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LAMTOR4	7422 308346	0.785773575	0.230562988	3.408964684	0.000654254	0.006389636
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SNRPE	1683.585337	0.478241958	0.140450738	-3.407686794 3.40505122 -3.404388536	0.000661516	0.00645031
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MRPL44	1313.168447	0.377785696	0.110993148	3.40368484	0.000664834	0.00646897
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PINLYP	376.5564476	0.474574899	0.139454473	3.403081216	0.000666305	0.00647644
MEFV	82.9365512	0.993707055	0.2920215	3.402855796	0.000666855	0.006478368
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TU BB6	2920.450292	0.895163717	0.26319752	3.401109995	0.000671128	0.006506166
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BOP1	2429.690365	0.653343234	0.192194508	3.399385559	0.000675374	0.006533582
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TARBP2	1276.852164	0.41269948	0.121463895	3.397713195	0.000679516	0.00654616
CD7	191.242937	1.131771368	0.333069998	3.397998546	0.000678808	0.00654616
ELMO D3	1152.184219	-0.238581892	0.070257061	-3.395842185	0.000684178	0.006587626
CHST7 CD800LF	809.0366998 583.470398	0.532540945 1.072810808	0.156856802 0.316097726	3.395077152 3.393921307	0.000686093	0.006602612
CHCHD6	1378.368309	0.614609791	0.181104374	3.393677234	0.000689609	0.006629529
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HERC2	4566.224516	-0.450933608	0.132901839	-3.392982442	0.000691361	0.00663944
CEP162	410.9218704	-0.485880446	0.1432471	-3.391904245	0.000694087	0.00666215
DEN N D5A C18 of 21	10227.81841 737.2651201	-0.485880440 -0.477315658 0.419790033	0.140731798 0.123791486	-3.391904245 -3.391668858 3.391105853	0.000694683 0.000696112	0.006664404 0.006674636
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DAO A	1.017396953	-1.515186863	0.446970624	-3.389902562	0.000699175	0.006688817
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CCDC32	1134.647538	0.349403381	0.1031975	3.385773696	0.000709779	0.006770305
TAF12	890.505403	0.371670659	0.109771634	3.385853403	0.000709573	0.006770305
PN PO	2858.503056	0.428773866	0.126697813	3.384224674	0.000713796	0.006801727
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GCC1	1052.919372	0.306881388	0.090809138	3.379410855	0.000726414	0.006875745
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RABAC1	5528.705127	0.610855152	0.180934488	3.376112314	0.000735179	0.006945602
TMEM26	114.7746667	1.108780514	0.328459316	3.375701223	0.000736278	0.006947707
PRDX5	13343.98996	0.594375285	0.176084338	3.375514783	0.000736777	0.006948859
TPM2	6115.784125	1.023826711	0.303414446	3.374350578	0.000739901	0.006974747
RCC1L	2225.358697	0.393787225	0.116743694	3.373092026	0.000743291	0.007003124
BBS2	5219.875556	-0.419116705	0.12429256	-3.372017633	0.000746197	0.007023319
G N A 15 N F Y B	686.8454393 2041.35221	0.798336346 -0.429303384	0.236743507 0.127336361	3.3721573 -3.371412391	0.000745818 0.000747838	0.007023319 0.007023319 0.007035176
CTSB SUPT20H	68766.11166 1277.090242	-0.429303384 0.787648875 -0.332778778	0.233644823 0.098750335	-3.37113772 -3.369900244	0.0007478584 0.000751954	0.007038602 0.00706668
ADAMTS18 TWISTNB	442.6951678 849.0319225	-1.35042501	0.400758641	-3.369671594	0.000751954 0.000752578 0.000753545	0.0070668941 0.007074418
TRMT61A	2385.269784	0.263103979 0.530769027	0.078088207 0.157553544	3.369317728 3.368816802	0.000754916	0.007083678
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PLPP5	1328.583892	0.427714638	0.127014097	3.367458007	0.000758646	0.007095049
MUC2	12.97833003	2.221029998	0.659529677	3.367596752	0.000758264	0.007095049
TMEM150A	1196.796434	0.51428271	0.152710146	3.367704928	0.000757967	0.007095049
SNUPN	1035.006683	0.269736825	0.080089196	3.367955198	0.000757279	0.007095049

WOTT 4						
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PSME3	3917.256454	0.275476461	0.081840382	3.366021202	0.000762608	0.007119611
ACVRL1 NOSIP	1383.508679 3730.444441	0.736692516 0.690613977	0.218898684 0.205247105	3.365449728 3.364792773	0.00076419 0.000766012	0.007130762 0.007144144
FXN	619.2683482	0.36758866	0.109251994	3.364594529	0.000766562	0.007145663
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CTSE ELMO3	1.505925928 165.4423269	2.142294091 0.656550479	0.637032101 0.195224148	3.36292957 3.363059775	0.0007712 0.000770837	0.007178006 0.007178006
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PEF1 MRM2	4263.938291 1418.369734	0.418923415 0.331867258	0.124596232 0.098739754	3.362247865 3.361029829	0.000773107 0.000776524	0.00718849 0.007216625
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U BR2	1835.319487 1625.225053	-0.333669771 0.207888478	0.099313973 0.061878683	-3.359746498 3.359613817	0.00078014 0.000780515	0.007239109
AFMID	2861.404661	-0.614678694	0.183013231	-3.35865714	0.000783222	0.007253263
GPR132	284.0705355 73.54755948	0.928561166	0.276458836	3.358768273	0.000782907	0.007253263
SPINK1 KMO	185.6372578	1.671516408 0.996735284	0.497655234 0.296845465	3.357758167	0.000782863 0.000785773	0.007253263 0.007265939
GEMIN6	554.5341048	0.344694175	0.102652723	3.35786684	0.000785464	0.007265939
RPP38	539.7145404 925.0605625	0.399993162 -0.424755026	0.119118115 0.126531966	3.35795409 -3.356898957	0.000785217 0.000788219	0.007265939 0.0072849
DU SP4	534.5803737	1.007641749	0.300278602	3.355689489	0.000791674	0.007313163
CBR3	675.7420951	0.546406806	0.162852914	3.355216641	0.000793029	0.007318339
MAP2K2 MBN L1	8917.714974 3094.956682	0.542742211 -0.35357419	0.161755918 0.105390585	3.355315935 -3.354893501	0.000792744 0.000793955	0.007318339 0.007323226
MDH2	8212.339172	0.462747256	0.137950432	3.354445872	0.000795241	0.007331415
GPD1 IRF3	3787.631301 3102 585203	-0.842177137 0.469631369	0.251088166 0.140048159	-3.35410923 3.353356252	0.000796209	0.00733667
PLCG2	2832.143966	0.789277312	0.235399926	3.352920819	0.000799636	0.007360883
PSMB6	5305.912438	0.477898029	0.142557247	3.352323637	0.000801363	0.007373098
TIA1 NDU FA13	2843.480052 14383.03953	-0.467192099 0.711213826	0.139432444 0.212269963	-3.350669951 3.350515624	0.000806163 0.000806613	0.007413564 0.007413997
USP16	2329.591502	-0.322180929	0.096171442	-3.350068628	0.000807915	0.007420599
PMWK CLRA1	3416.862079 898.3170222	0.595748256 0.488271925	0.177835676 0.145760367	3.349992924 3.349826399	0.000808136 0.000808622	0.007420599
SRG AP2C	898.3170222 1756.441866	-0.598835877	0.178776489	-3.349826399 -3.349634402	0.000809183	0.007421364
RARRES2	2267.558617	0.803423488	0.239867962	3.349440591	0.000809749	0.007424312
PTPRK FAM86C1	2749.744138 284.4024002	-0.545855345 0.569217774	0.163029581 0.170014918	-3.34819817 3.34804605	0.000813388 0.000813835	0.007453969 0.007454355
RPLP0	42340.76461	0.525633167	0.157023494	3.347481027	0.000815496	0.007465857
SRM UBF2O1	4193.756383 3899.248243	0.572597046 0.379607969	0.171139363 0.11349897	3.345793958 3.344593954	0.000820473 0.000824031	0.007507698
GPR143	3899.248243 293.6257831	0.379607969 0.832365646	0.11349897 0.248863753	3.344593954 3.344664043	0.000824031 0.000823823	0.007532773 0.007532773
CST3	126355.9074	0.727263502	0.217468854	3.344219129	0.000825145	0.007539218
DO CK9 FCHO1	4113.463964 2388.977755	-0.801392898 -0.604709791	0.239676657 0.180858109	-3.343641843 -3.343559182	0.000826864 0.000827111	0.007542216 0.007542216
TPBG	468.9770781	0.956260689	0.285988689	3.343701082	0.000826688	0.007542216
PILRA KI HI 3	1114.936942 823.7412581	0.707616966 -0.738731851	0.211615446 0.221003003	3.343881461 -3.342632644	0.00082615 0.000829877	0.007542216
CCT7	823.7412581 8559.353354	-0.738731851 0.409687155	0.221003003	-3.342632644 3.34275697	0.000829877	0.007556225
DN AIB1	9571.006133	0.572574649	0.171286876	3.342781789	0.000829431	0.007556225
AIFM1 MFSD14C	1438.999813 1216.517909	0.368568684 -0.391476544	0.110269407 0.117152728	3.342438264 -3.34159136	0.000830458 0.000832996	0.007557785 0.007572703
CLEC2D	430.6875814	-0.465008508	0.139162438	-3.341480022	0.00083333	0.007572703
TNFRSF1A COG5	6328.585954	0.619028058 -0.501204239	0.185244454 0.150006629	3.341682002 -3.341213931	0.000832724 0.000834129	0.007572703
COG5 ATRIP	1253.77085 667.9475867	-0.501204239 0.492725967	0.150006629 0.147494556	-3.341213931 3.34063834	0.000834129 0.00083586	0.007576229 0.007588211
RPS6KC1	1735.445103	-0.451810255	0.135255756	-3.340414253	0.000836535	0.007590598
PARL BCO 2	1749.547211 320.9809529	0.342663187 -0.47824436	0.10259275 0.143195845	3.340033164 -3.33979215	0.000837684 0.000838411	0.007597281 0.007600137
ZBTB14	901.5359583	-0.394759976	0.118241598	-3.338587971	0.000842054	0.007627459
PPP1R35	1172.830848	0.509975747	0.152754936 0.171734129	3.338522217	0.000842253	0.007627459
ZNF117 MTG2	1028.166034 1756.94099	-0.573234858 0.352584875	0.171734129 0.105633599	-3.337920428 3.337809912	0.000844079 0.000844415	0.007635782 0.007635782
B4G ALT1	2097.819935	0.730788069	0.218926379	3.338053978	0.000843674	0.007635782
ACADS MXI1	1874.195846 4882.877939	0.492362514 -0.484892564	0.147543013 0.145319024	3.337077814 -3.336745252	0.000846642 0.000847656	0.007652169 0.007653855
RAB28	1142.91861	-0.319935694	0.095882598	-3.336744096	0.00084766	0.007653855
MDM4 CPLX4	1910.308982 2.768816155	-0.428309869 -1.141298533	0.128408801 0.342213699	-3.33551801 -3.335046308	0.000851406 0.000852852	0.007683922 0.007693201
EIF4G3	2.768816155 4357.24533	-1.141298533 -0.449621195	0.342213699	-3.335046308	0.000852852	0.007693201
PDLIM7	3835.732546	0.828574218	0.248464247	3.334782475	0.000853661	0.007694996
NAV3 PLIN4	1435.153673 616.8585818	-0.725865315 0.983296151	0.217730517 0.294956676	-3.333778485 3.333696886	0.000856749 0.000857	0.007715511 0.007715511
PSMAS	3121.288413	0.414259946	0.124288967	3.333030880	0.00085903	0.007722468
PRDX4	3089.227019	0.659597507	0.197890398	3.333145587	0.0008587	0.007722468
SURF6 RCE1	2858.556974 639.5497933	0.325375873 0.435597678	0.097613523 0.130703547	3.333307359 3.332715061	0.000858201 0.00086003	0.007722468 0.007723922
RER1	6942.210066	0.329969153	0.09900708	3.332783409	0.000859818	0.007723922
PDLIM2 TMEM37	1499.813874 566.6711388	0.442449852 0.970214979	0.132775111 0.291186398	3.332325218 3.331937842	0.000861235 0.000862435	0.007730983 0.007737983
PLCH2	4378.672561	-0.740121355	0.222179639	-3.331184438	0.000864773	0.007751947
ADA2 TBCK	5162.282349 1062.797252	0.803432056 -0.502709265	0.241186499 0.150949809	3.331165135 -3.330307405	0.000864833	0.007751947
CEP44	1062.797252 555.7742739	-0.502709265 -0.492293327	0.150949809 0.147860463	-3.330307405 -3.329445319	0.000867502 0.000870191	0.007772088
TRIM11	1263.788589	0.408969034	0.122843085	3.329198657	0.000870963	0.007795517
EXOSC7 CD68	1046.248629 13029.57244	0.403912138 0.91754257	0.121330029 0.275711435	3.329036861 3.327909012	0.000871469 0.000875004	0.00779626 0.007824093
ARHG AP19	743.760063	-0.36583964	0.109956545	-3.327129275	0.000877457	0.007838414
CMTM2 CYHR1	44.6883593 5433.843194	1.043631204 0.42129823	0.313662446 0.126655796	3.327243088 3.326324127	0.000877098	0.007838414
POLK	5433.843194 1006.312547	-0.53398929	0.126655796	-3.32581041	0.000879995 0.000881619	0.007857284 0.007867967
HIPK2	39176.87102	-0.976641063	0.293743374	-3.324810527	0.000884786	0.007888597
DEFA3 CCDC124	19.64535967 4995.852076	4.007156859 0.586572894	1.205207078 0.176445914	3.32487 3.324377879	0.000884598 0.00088616	0.007888597 0.007897026
C6orf47	1417.035181	0.334415507	0.176443914	3.322633922	0.000891719	0.007897026
LRRCC1	1231.832831	-0.543674639	0.163651004	-3.322158891	0.000893238	0.007952408
CDKN 2AIPN L IF 135	1106.022141 2116.552719	0.437509673 0.826523144	0.131706547 0.248826404	3.321852122 3.321685849	0.000894221 0.000894754	0.007957312 0.007958213
CAPN1	5218.948929	0.527551112	0.158845053	3.321168029	0.000896416	0.007958213
SLC1A7	55.16422131 1261.499061	1.500723615	0.451886309	3.32102032	0.00089689	0.007969521
COL27A1 EIF2B4	1261.499061 2171.131637	-0.551267481 0.304413122	0.166019002 0.091680842	-3.320508351 3.320356951	0.000898537 0.000899024	0.007980305 0.007980788
TRAPPC3	3243.341604	0.442637406	0.133346925	3.319442172	0.000901975	0.008003127
DFFB G PR34	344.0224815 1695.114709	-0.434280636 -1.038064207	0.130845465 0.312834622	-3.319034666 -3.318252309	0.000903292 0.000905826	0.008010958 0.008018017
KCTD10	1695.114709 3125.126385	-1.038064207 0.293970158	0.312834622 0.088595463	-3.318252309 3.318117513	0.000905826 0.000906263	0.008018017 0.008018017
N ME1-N ME2	742.0986341	0.968061237	0.29174439	3.318182867	0.000906051	0.008018017
TRADD HLA-A	1421.657876 74912.31376	0.619989863 0.785470699	0.186829623 0.23669107	3.318477297 3.318548094	0.000905097 0.000904867	0.008018017 0.008018017
CDH1	330.7594042	-0.741786359	0.223568102	-3.317943618	0.000906828	0.008019161
KDELR1	6249.97917	0.442225647	0.1332886	3.317805479	0.000907276	0.008019279
ARHG AP6 SHRO O M4	343.8934964 2102.041287	-0.775858538 -0.603871755	0.233881842 0.182046483	-3.317309845 -3.317129471	0.000908888 0.000909475	0.008029669 0.008031005
		2.003071733			5.000303473	000031003

ATP6VDB	10887.14662	0.503554638	0.151844696	3.316247784	0.000912349	0.008052528
MANE	2237.14055	0.625177826	0.188559262	3.315550874	0.000914627	0.008064909
SN RPD2 CRADD	5393.220031 434.8434437	0.538275831 -0.401809404	0.162343206 0.121215323	3.315665894 -3.314840032	0.000914251 0.000916956	0.008064909
IL1B	659.0091199	1.268802315	0.382763215	3.314849141	0.000916926	0.008073855
TTC36 RPUSD2	21.01405456 518.3868016	0.890822381 0.38372077	0.268728109 0.115825497	3.314957949 3.31292141	0.000916569 0.000923269	0.008073855 0.008125563
SQSTM1	27474.3737	0.482131026	0.115825497	3.312308444	0.000925295	0.008123303
PHACTR4	1545.675156	-0.357577281	0.107980648	-3.31149411	0.000927992	0.008159334 0.008165456
MFHAS1 GAREM1	1258.877828 1158.480091	0.371900776 -0.496833672	0.112317681 0.150057083	3.311150772 -3.310964475	0.000929131 0.00092975	0.008165456
EIF2S1	2673.572355	0.257266827	0.077728094	3.309830622	0.000933524	0.008196247
POCS SKAP1	412.9782494 30.93069619	-0.335252914 -0.902013148	0.101333717 0.272682974	-3.308404395 -3.307918844	0.000938292 0.00093992	0.008234184 0.008244547
ATP5F1B	18739.44826	0.328461432	0.099320227	3.307095046	0.000942689	0.008253119
DYN LRB1 C11orf68	10667.64196 3076.425989	0.558990453 0.455075795	0.169023093 0.137595846	3.3071839 3.307336718	0.00094239 0.000941876	0.008253119 0.008253119
CYB5R1	3290.031948	0.38386557	0.116064769	3.307339294	0.000941867	0.008253119
R3HDM4	2909.772004	0.410440926 0.582298042	0.124121104	3.306777909	0.000943757	0.008258545 0.008288467
TMEM205 TAN C2	5639.002384 2378.33725	-0.586149337	0.17615334 0.177355753	3.30563157 -3.304935581	0.000947626 0.000949982	0.008303932
PDE6D	1531.081629	-0.359481623	0.108774183	-3.304843231	0.000950295	0.008303932
SH2D3A AN LN	69.87878862 11224.75052	0.868327035 -0.945177009	0.262774106 0.286045653	3.304461951 -3.304287261	0.000951589 0.000952182	0.008311295 0.008312536
EPC1	1164.558606	-0.217367374	0.065795263	-3.303693387	0.000954201	0.00832622
RPL8 FBXL8	39511.36865 452.3260244	0.524279839 0.579977512	0.158713964 0.175570498	3.303300018 3.303388204	0.000955541 0.00095524	0.008330021 0.008330021
USP31	2034.266594	-0.390671531	0.118272655	-3.303143338	0.000956075	0.008330107
RPL35	23894.78179 3687 732756	0.652933657 -0.636430162	0.197677063 0.192718013	3.303031968 -3.302390634	0.000956455 0.000958645	0.008330107
ADAMTS14	1463.959748	-0.632557486	0.192718013	-3.302390634	0.000958939	0.008343856
HRCT1	223.1400801	1.246714821	0.377605	3.301637481	0.000961222	0.008359775
AN APC10 HBS1L	387.5169251 2919.803074	-0.325417809 -0.404284609	0.09857078 0.122464158	-3.301361822 -3.301248421	0.000962167 0.000962556	0.008363483 0.008363483
RIOX1	483.8678876	0.570582303	0.172912242	3.29983751	0.000967408	0.008401681
TAX1BP3 STXBP3	5442.024969 2729.566307	0.596694899 -0.470885397	0.180917015 0.142783328	3.29816905 -3.29790181	0.000973175 0.000974102	0.008447785 0.008451848
ARL9	104.151156	0.751647114	0.227969534	3.297138445	0.000976753	0.008470865
G ATAD1 DN ASE2	2266.427167 3279.522674	-0.350083428 0.57254227	0.106204283 0.173758281	-3.296321181 3.29505027	0.0009796 0.000984041	0.008491552 0.008502057
RUNX3	684.523422	0.647752569	0.196582523	3.295066927	0.000983982	0.008502057
CDKN 2B KRTAP3-2	834.7313449 4.045460444	0.844693163 3.803037071	0.256344635 1.154042756	3.295146637 3.295403961	0.000983703 0.000982803	0.008502057 0.008502057
KRTAP3-2 AKIP1	4.045460444 1300.84624	3.803037071 0.44331794	1.154042756 0.13452383	3.295403961 3.295460301	0.000982803 0.000982606	0.008502057 0.008502057
SGMS2	202.9642781	1.047794477	0.317929424	3.295682615	0.000981829	0.008502057
NOC4L MFSD4B	1407.21438 149.5479517	0.619924251 0.475599311	0.188098612 0.144356203	3.295740705 3.294623313	0.000981626 0.000985537	0.008502057 0.008510993
FADD	1150.226835	0.44436917	0.134893072	3.294232708	0.000986908	0.008518838
KRT17 N CBP2	324.9229772 3634.197679	1.179160851 0.29703442	0.358040692 0.090206861	3.293371057 3.292814062	0.000989937	0.00854099
TMA7	8141.885724	0.465046623	0.141246561	3.292445629	0.000993201	0.008561132
AL159163.1 RPS24	19.35641313 26773.4814	1.271417326 0.542693428	0.386186835 0.164858542	3.292233737 3.291873264	0.00099395 0.000995225	0.00856358 0.008570557
ZNF532	6060.101899	-0.500135093	0.151967717	-3.291061436	0.000998101	0.008587304
TEN1 PSMCS	934.7344109 7362.843007	0.545457188 0.406380283	0.165733178 0.12349372	3.291176785 3.290695936	0.000997692 0.000999399	0.008587304 0.008594456
NEB	331.106234	-0.639172953	0.12349372	-3.290114841	0.001001465	0.008594450
TTYH2	12060.50896	-0.749040908	0.227677011	-3.289927717	0.001002131	0.008609919
TRIM21 GSDMD	1018.196884 2126.237915	0.726441802 0.630179001	0.220834886 0.191591967	3.289524658 3.289172353	0.001003568 0.001004825	0.008618242 0.008625018
TNFRSF4	149.9421832	1.075791783	0.327202479	3.287847286	0.001009566	0.00866168
NLE1 ZDHHC15	827.4363968 456.9338287	0.353083904 -0.541685197	0.107404665 0.164791369	3.287416836 -3.287096886	0.00101111 0.00101226	0.008670896 0.008676716
KRT36	18.07952678	1.516578431	0.461583253	3.285601069	0.00101765	0.008718864
C17orf58 SFRP4	603.176689 539.6167957	0.357287962 -0.885273028	0.108776921 0.269560047	3.28459346 -3.284140352	0.001021296 0.00102294	0.008746035 0.00875604
ZNF589	970.639648	0.322169657	0.098121565	3.283372585	0.00102573	0.008771776
MO CS3 ARHG AP22	381.3704763 2471.837363	0.297493293 -0.637394723	0.090603959 0.194163202	3.283446965	0.001025459	
RPL23A	14228.30647	0.533468134		-3 282778170	0.001027895	0.008771776
RALB C11orf52	2806.08316		0.162503903	-3.282778179 3.282801974	0.001027895 0.001027808	0.008771776 0.008782142 0.008782142
FMNL2	90 17902204	0.362959022	0.11057184	3.282801974 3.282562918	0.001027808 0.00102868	0.008782142 0.008782142 0.008784777
N4BP2L2	89.17893304 13927.40999			3.282801974	0.001027808	0.008782142 0.008782142
	13927.40999 3308.133457	0.362959022 0.932040648 -0.811270126 -0.371221804	0.11057184 0.284003894 0.247245881 0.113141363	3.282801974 3.282562918 3.281788267 -3.281228072 -3.281044119	0.001027808 0.00102868 0.00103151 0.001033561 0.001034236	0.008782142 0.008782142 0.008784777 0.008804865 0.008807259 0.008807259
GAS2 FZD7	13927.40999	0.362959022 0.932040648 -0.811270126	0.11057184 0.284003894 0.247245881	3.282801974 3.282562918 3.281788267 -3.281228072	0.001027808 0.00102868 0.00103151 0.001033561	0.008782142 0.008782142 0.008784777 0.008804865 0.008807259
G AS2 FZD7 SSR3	13927.40999 3308.133457 70.54085504 1061.807488 6175.111909	0.362959022 0.932040648 -0.811270126 -0.371221804 -0.759449112 0.819025068 0.37784678	0.11057184 0.284003894 0.247245881 0.113141363 0.231478629 0.249641977 0.115160984	3.282801974 3.282562918 3.281788267 -3.281228072 -3.281044119 -3.28066059 3.280798671 3.281031203	0.001027808 0.00102868 0.00103351 0.001033561 0.001034236 0.001034290 0.001034283	0.008782142 0.008782142 0.008788217 0.00887855 0.008807259 0.008807259 0.008807259 0.008807259
G AS2 FZD7	13927.40999 3308.133457 70.54085504 1061.807488	0.362959022 0.932040648 -0.811270126 -0.371221804 -0.759449112 0.819025068	0.11057184 0.284003894 0.247245881 0.113141363 0.231478629 0.249641977	3.282801974 3.282562918 3.281788267 -3.281228072 -3.281044119 -3.28086059 3.280798671	0.001027808 0.00102868 0.00103151 0.001033561 0.001034236 0.001034909	0.008782142 0.008782142 0.008784777 0.008804865 0.008807259 0.008807259 0.008807259
GAS2 FZ07 SSR3 IGSF22 NAT9 FRS2	13927.40999 3308.133457 70.54085504 1061.807488 6175.111909 88.44048455 1692.695656 2038.559336	0.362959022 0.932040648 -0.811270126 -0.371221804 -0.759449112 0.819025068 0.37784678 0.750254022 0.344725273 -0.728083445	0.11057184 0.284003894 0.247245881 0.113141363 0.231478629 0.249641977 0.115160984 0.228659258 0.105061384 0.221943987	3.282801974 3.282569381 3.281788267 -3.281228072 -3.281041319 -3.2806059 3.280798671 3.28110569 3.28110569 3.281176498 -3.28042865 -3.28042865	0.001027808 0.00102888 0.00103151 0.001033561 0.00103409 0.00103409 0.001034029 0.001034029 0.001034029	0.008782142 0.008782147 0.008784777 0.00804865 0.008807259 0.008807259 0.008807259 0.008807259 0.008807259 0.008807259
G AS2 FZD7 SSR3 IG SF22 NAT9	13927.40999 3308.133457 70.54085504 1061.807488 6175.111909 88.44048455 1692.695656	0.362959022 0.932040648 -0.811270126 -0.371221864 -0.759449112 0.819025068 0.37784678 0.750254022 0.344725273	0.11057184 0.284003894 0.247245881 0.113141363 0.231478629 0.249641977 0.1151609928 0.228659928	3.282801974 3.28256918 3.281788267 -3.281228072 -3.281244119 -3.2805095) 3.280798671 3.28131203 3.281105406 3.381176496	0.001027808 0.00102868 0.00103151 0.001033451 0.001034236 0.001034909 0.0010345136 0.001034239 0.001034029	0.008782142 0.008782142 0.008782175 0.008782175 0.008807259 0.008807759 0.008807759 0.008807759 0.008807759
GAS2 FZ07 SSR3 IGSF22 NAT9 FFS2 CG.8 MARN3 CHM2B	13927.40999 3308.133457 70.54085504 1061.807488 6175.111809 88.44048455 1692.695656 2038.559336 245.9634696 3213.125616	0.362950027 0.932006686 0.811270126 0.371221804 0.759469112 0.819025068 0.37786678 0.750254022 0.34475277 0.720083465 1.599740008 0.6663562553 0.373266182	0.11057184 0.234003894 0.247745881 0.113141363 0.231478620 0.249641977 0.115160984 0.228659735 0.105061486 0.221943967 0.4347640386 0.2013457640386	1.282801974 1.28269781 1.281788267 1.281788267 1.281788267 1.281788267 1.281784119 1.28066009 1.280788271 1.281100560 1.281176606 1.281176606 1.281176606 1.281176606 1.280598991 1.2875700258 1.275700258	0.00107868 0.00107868 0.00103151 0.00103151 0.00103151 0.00103400 0.00103400 0.00103400 0.00103400 0.00103400 0.00103400 0.00103400 0.00103400 0.00103400 0.00103400 0.00103400 0.00103400 0.00103400 0.00103400 0.00103400	0.008782142 0.008782142 0.008782175 0.008872759 0.008807259 0.008807259 0.008807259 0.008807259 0.008807259 0.008807259 0.008807259 0.008807259 0.008807259 0.008807259
GAS2 FZD7 SSR3 IGSF22 NAT9 FRS2 CCL 8	13927.40999 3308.133457 70.54085504 1061.807488 6175.111909 88.44048455 1692.695656 2038.559336 158.7080499 245.9634696	0.36299022 0.33206668 0.811270126 0.371271800 0.739449112 0.819025068 0.37746472 0.750254022 0.344725273 0.728081462 0.728081462 0.76855553	0.11057184 0.284003894 0.247245881 0.113141363 0.231478692 0.23467877 0.115160988 0.22665925 0.105905184 0.221943937 0.487640885 0.020234967	3.282801974 3.282562381 3.281788267 -3.281228072 -3.28104419 -3.28066259 3.280176496 -3.280428265 3.280428265 3.280428265 3.280428265 3.280428265 -3.290428265 3.280598991 -3.279285563	0.001027808 0.00102858 0.00103151 0.00103151 0.001033561 0.001034090 0.001034383 0.001034090 0.001034390 0.001034390 0.001034390 0.001034395 0.001034395 0.001034395 0.00103495	0.008782142 0.008782142 0.008782177 0.008782177 0.0088071759 0.0088071759 0.0088071759 0.0088071759 0.0088071759 0.008807159 0.008807159 0.008807159 0.008807159 0.008807159
GAS2 FZ07 SSR3 IGSF22 NAT9 FFS2 CCL 8 MKRN3 CCMP018 HBCH MKK MKO16	13927.40999 3308.133457 70.54085504 1061.807488 6175.111909 88.40408552 2038.559336 158.7080499 245.953666 3213.125616 1116.453179 1111.72466 325.8358639	0.362959022 0.93206068 0.811270128 0.759449112 0.819025068 0.37784678 0.750254022 0.34775273 0.728083445 1.599740008 0.6635562533 0.37326182 0.422797356 0.338087614	0.11057184 0.234003894 0.247245881 0.113141363 0.231478629 0.249641977 0.115160984 0.228659735 0.105061488 0.221943967 0.4347640388 0.2013457640388 0.2013457640388 0.2013457640388 0.2013457640388 0.2013457640388 0.2013457640388 0.2013457640388 0.2013457640388 0.2013457640388 0.2013457640388	1.282801974 1.28269781 1.281788267 1.281788267 1.281788267 1.281788267 1.280788271 1.28101100569 1.281176406 1.281176406 1.281176406 1.281176406 1.281176406 1.281176406 1.281176406 1.281176406 1.2817860538 1.2728260538 1.2728260538 1.2728260538 1.272826053	0.001027868 0.001037868 0.00103151 0.00103151 0.00103151 0.001034286 0.001034286 0.001034287 0.001034289 0.001034289 0.001034029 0.001034029 0.001034029 0.001034029 0.001034029 0.001034029 0.001034029 0.001034029 0.001046660 0.001046660	0.008782142 0.008782142 0.008782175 0.008874777 0.008807475 0.008807259 0.008807259 0.008807259 0.008807259 0.008807259 0.008807259 0.008807359 0.008807359 0.008807359 0.008807359 0.008807359 0.008807359 0.008807359
GAS2 FZD7 SSR3 IG5922 NAT9 FES2 CCL8 MKRN3 CCH0P1B HBCH MACK MACK MBCHB DD05T	13927.40999 3308.133457 705.408504 1061.807488 6175.111909 88.4404855 1692.695656 208.559336 158.7680499 245.9634696 3213.125616 3213.125616 3213.125615 526.3356339 53336339 53336339 53336339 53336339	0.362990022 0.332040645 0.811270126 0.371221804 0.759449112 0.819025068 0.37784578 0.750254022 0.34475273 0.728023465 1.599740008 0.663562553 0.37286716 0.41142753	0.11057184 0.284003890 0.247245881 0.113141826 0.234786591 0.1351066484 0.221943937 0.05506484 0.221943937 0.045740888 0.20234974 0.105061484	3.282891974 3.282562918 3.281562918 3.281788267 3.281228077 3.28104119 3.28058050 3.280788671 3.2810131233 3.281101509 3.28110509 3.281176498 3.279236563 3.279236563 3.2797236563 3.2797236563 3.2797236563 3.2797236563 3.2797236563	0.00102780 0.00103781 0.00103151 0.00103151 0.00103151 0.00103400 0.00103138 0.00103138 0.00103138 0.00103138 0.00103138 0.00103138 0.00103138 0.0010318 0.0010318 0.0010318 0.0010318 0.0010318 0.0010318 0.0010318 0.0010486	0.008782142 0.008782142 0.008782177 0.008782177 0.0088787777 0.008807759 0.008807759 0.008807759 0.008807759 0.008807759 0.008807759 0.00880759 0.00880759 0.00880759 0.00880759 0.00880759 0.00880759 0.00880759 0.00880999 0.00880999
GAS2 FZD7 SSR3 IG5922 NAT9 FFS2 CG.8 MKRN3 CK-MP1B HBCH MMK MBOH6 DOST TAGLN2	13927.40999 3308.133457 770.540850 1061.807488 6175.111909 6187.5111909 204.56566 2038.55591 2158.7080499 245.9634690 245.9634690 241.116.453179 1111.27450 232.813593 5563.396132 114.7524524 14059.57756	0.362950072 0.312040668 0.811270126 0.371221806 0.371221806 0.37326172 0.37326172 0.37326172 0.720054022 0.34475277 0.720054022 0.34475277 0.72005402 0.663526533 0.37326182 0.313734172 0.422797326 0.431275412 0.4142753 1.064606761	0.11057184 0.284003890 0.247745881 0.113141193 0.231478629 0.246641977 0.11516098 0.022659278 0.105051486 0.022194397 0.437640388 0.0225497 0.113827478 0.095702747 0.128862235 0.10551460388 0.1255440058 0.125544058	1.282801974 1.28269218 1.281788267 1.281788267 1.28128072 1.28128072 1.28128072 1.28128072 1.28128072 1.281176056 1.281176056 1.281176056 1.281176056 1.28128052 1.28058981 1.275928051 1.27592975 1.277590751 1.277590751 1.277599223 1.27659970 1.27659970 1.277699223	0.001027868 0.001037861 0.00103351 0.00103351 0.00103351 0.001034286 0.001034280 0.001034381 0.001034029 0.001034029 0.001034029 0.00103576 0.001045662 0.001045662 0.001045662	0.008782142 0.008782147 0.008782147 0.008782147 0.008872759 0.008807259 0.008807259 0.008807259 0.008807259 0.008807259 0.008807259 0.008807259 0.008807259 0.008807259 0.008807259 0.008807259 0.008807259 0.008807899 0.008867892 0.008867892 0.008867892 0.008867892 0.008867892 0.008867892
G AS2 F ZD7 SSR3 IG SF22 NAT9 FR52 CCL8 MRRN3 CH/P2B HBCH MRK MROL6 DOOST LG AS.78 TAGLN2 FR55 TAGLN2 FR551	13927.40999 3308.133457 705.408504 1061.807481 6175.111309 1692.695556 208.559330 245.9634606 3213.125611 1116.453179 1111.27456 325.8358633 325.8358633 326.8359332 118.7354254 118.7354524	0.362990022 0.332006684 0.811270126 0.371221800 0.759480112 0.818925068 0.37748478 0.750254022 0.344725273 0.728083461 1.599740008 0.66356253 0.373266182 0.333207618 0.4127735 0.41277356 0.338087613 0.4147273 3.064600761 0.740845841 -2.888947013	0.11057184 0.284003894 0.247245881 0.113141813 0.131478629 0.245641977 0.115160988 0.228659258 0.105906188 0.221943997 0.437640888 0.221943997 0.113827478 0.055702747 0.128892245 0.10411827478 0.055702747 0.128892245 0.10451018404 0.0351550880	1 28290194 3 282562918 3 281562918 3 28158267 -1 281024119 -2 28086505 3 28086505 3 28086505 3 2808505 3 28010505 3 281176498 -1 280428995 3 272920505 -1 2729205 -1	0.00102786 0.00103151 0.00103151 0.00103151 0.00103151 0.00103450 0.00103450 0.00103450 0.00103460 0.00103460 0.00103460 0.00103460 0.00103460 0.00103460 0.00103460 0.00103460 0.00103460 0.00103460 0.00103460 0.00103460 0.00103460	0.008782142 0.008782142 0.008782147 0.008782177 0.0088047259 0.008807259
GAS2 FZ07 SSR3 IGSF22 NAT9 FF82 CCL 8 MKRN3 CCMP18 HBCH MMX MROH5 DOST LGALS7B TAGLN2 PRS51 RSS01 SSL02 SSL03 SSL03 SSL03 SSR03 SSR0	13927.40999 3308.133457 705.408504 1061.807488 6175.111509 88.44048455 1692.695656 2038.559334 2138.559334 2131.25616 1116.453179 1111.272656 228.135363696 228.13536395 5563.398132 114.8722452 14.905.97756 3.944372954	0.362990022 0.31204068 0.811270126 0.371221060 0.373240112 0.819025068 0.373640712 0.344725273 0.7280254622 0.344725273 0.728025462 0.373267803 0.663502533 0.373267816 0.41142753 1.064600761 0.740685843 2.888947015 0.269745381 0.269745381	0.11057184 0.284003894 0.247245881 0.113141835 0.231478629 0.2459643777 0.115160984 0.2226592285 0.105061484 0.221943937 0.437640888 0.20214967 0.113822473 0.059702747 0.1288922245 0.164151308 0.21526803	1.282801942 1.28262918 1.281788267 1.28128072 1.2812807	0.00103786 0.00103786 0.00103151 0.00103151 0.00103476 0.00103476 0.00103478 0.00103478 0.00103478 0.00103478 0.00103478 0.00103478 0.00103478 0.00103478 0.00103478 0.00103478 0.00103478 0.00103478 0.00103478 0.00103478 0.00103478 0.00103478 0.00103486 0.00103478 0.00103486	0.008782142 0.008782142 0.008782147 0.008782147 0.0088784777 0.008807129 0.008807129 0.00880729 0.00880729 0.00880729 0.00880729 0.00880729 0.00880729 0.00880729 0.00880729 0.00880729 0.00880729 0.00880729 0.00880729 0.00880729 0.00880729 0.00880729 0.00880729 0.00880790 0.00880790 0.00880790 0.00880790 0.00880790
GAS2 FZD7 SSR3 IGSF2Z NATP FKS2 CCL8 MKRN13 CHWP18 HBCH MKKN MKN14 MKKN MKN15 LGALS7B TAGLN12 PKS1 KSACI LGALS7B TAGLN12 RSACI KSACI	13927.40999 3308.133457 705.408503 1061.807488 6175.111909 88.44.04855 1692.695656 2038.559336 245.9634696 245.9634696 3213.125616 3213.125616 3213.125613 1116.453179 1111.27456 332.835633 332.835633 343.9412 118.7334524 14095.97756 3.944377554	0.362990022 0.332040648 0.811270126 0.371221800 0.759448112 0.818035068 0.37784572 0.350254022 0.344725273 0.728083465 1.599740008 0.663561553 0.373266182 0.332376182 0.422297356 0.538087616 0.4142753 3.064600761 0.740845843 -2.888947015 0.269745381 0.269745381	0.11057184 0.284003894 0.247245881 0.11314136] 0.231478629 0.2346786797 0.115160938 0.228669275 0.1059061484 0.221949397 0.437640286 0.20234967 0.113827478 0.055702747 0.12894245 0.164151306 0.255524895 0.0351505888 0.26608434 0.8831932458 0.03234967 0.1727455	3.282891974 3.282562918 1.281788267 3.281282072 3.28104119 3.28058050 3.280788671 3.281013103 3.281105050 3.281013103 3.281105050 3.28101303 3.281105050 3.28101303 3.281105050 3.279238563 3.27929773 3.27999773	0.00103786 0.00103786 0.00103851 0.00103851 0.00103852 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103458 0.00103458 0.00103458 0.00103458	0.008782142 0.008782142 0.008782147 0.008782147 0.0088047559 0.008807759 0.008807759 0.008807759 0.008807759 0.008807559
GAS2 FZ07 SSR3 IGSF22 NAT9 FF82 CCL 8 MKRN3 CCMP18 HBCH MMX MROH5 DOST LGALS7B TAGLN2 PRS51 RSS01 SSL02 SSL03 SSL03 SSL03 SSR03 SSR0	13927.40999 3308.133457 705.408504 1061.807488 6175.111509 88.44048455 1692.695656 2038.559334 2138.559334 2131.25616 1116.453179 1111.272656 228.135363696 228.13536395 5563.398132 114.8722452 14.905.97756 3.944372954	0.362990022 0.31204068 0.811270126 0.371221060 0.373240112 0.819025068 0.373640712 0.344725273 0.7280254622 0.344725273 0.728025462 0.373267803 0.663502533 0.373267816 0.41142753 1.064600761 0.740685843 2.888947015 0.269745381 0.269745381	0.11057184 0.284003894 0.247245881 0.113141825 0.234786591 0.1351065484 0.221943937 0.055702747 0.13520476 0.1382477 0.055702747 0.12892245 0.105208484 0.221943937 0.055702747 0.12892245 0.105208484 0.055702747 0.12892245 0.1051065702747 0.12892245 0.1051065702747 0.12892245 0.1051065702747 0.12892245 0.1051065702747 0.118928747 0.0525702747	1.282801942 1.28262918 1.281788267 1.28128072 1.2812807	0.00103786 0.00103786 0.00103151 0.00103151 0.00103476 0.00103476 0.00103478 0.00103478 0.00103478 0.00103478 0.00103478 0.00103478 0.00103478 0.00103478 0.00103478 0.00103478 0.00103478 0.00103478 0.00103478 0.00103478 0.00103478 0.00103478 0.00103486 0.00103478 0.00103486	0.008782142 0.008782142 0.008782147 0.008782147 0.0088784777 0.008807129 0.008807129 0.00880729 0.00880729 0.00880729 0.00880729 0.00880729 0.00880729 0.00880729 0.00880729 0.00880729 0.00880729 0.00880729 0.00880729 0.00880729 0.00880729 0.00880729 0.00880729 0.00880790 0.00880790 0.00880790 0.00880790 0.00880790
GAS2 FZD7 SSR3 IGS#22 NATP IGS#22 CCL8 MAGN13 CF6P18 HBCH MAK MRCH DDDST LGALS7B TAGLN2 PRSS1 ESADI SLCSDAL NITANI CCL17 SLCSDAL NITANI CCL17 STR3B	13927.40099 3308.133457 70.5408504 1061.807488 6107.111902 88.44048455 1692.695656 2028.553933 158.7080499 245.9634694 245.9634694 245.9634694 245.9634694 245.9634694 245.9634694 245.9634694 246.963	0.36299022 0.33204064 0.811270126 0.371221800 0.739449112 0.81905068 0.37742478 0.750254022 0.344725273 0.7280234651 1.599740008 0.663562553 0.373206122 0.313734122 0.422797356 0.538026761 0.4142733 0.064600761 0.740845841 0.4114273 0.269745381 0.55705543 0.367595443 0.367595443 0.367595443	0.11057184 0.284003894 0.24745881 0.113141363 0.231478621 0.231478621 0.231478621 0.205661384 0.221467867 0.115160988 0.205659258 0.1059061484 0.221943897 0.4887640886 0.20234967 0.113827478 0.1059762747 0.128982245 0.164151300 0.255504893 0.25608334 0.831932488 0.08234507 0.1072366389 0.111691287 0.111691287	1 22891976 1 287567918 1 281788267 3 281282077 3 28104119 3 28078827 3 281014119 3 28078827 3 281011209 1 28101120	0.00103766 0.00103786 0.001037861 0.00103151 0.00103151 0.001034736 0.001034736 0.001034737	0.008782142 0.008782142 0.008782147 0.008782147 0.008874777 0.008807259
GAS2 FZ07 SSR3 IG59722 NAT9 FF822 CCL8 MKRN3 CCMP018 HBCH MMK MMCM MBCH MCM MCM MCM MCM MCM MCM MCM MCM MCM M	13927.40999 3308.133457 705.408504 1061.807488 6175.111309 88.44048455 1692.695656 2038.559334 158.7080499 245.9634696 243.125616 1116.453179 1111.27456 228.15363691 228.15363691 231.1557575 3.94437254 1405.9777 1313.5217797 1503.764834	0.362999022 0.33204068 0.811270126 0.371221000 0.759449112 0.819025008 0.37784578 0.750254022 0.34475273 0.728053465 1.999740008 0.663505333 0.37324572 0.422797356 0.538087616 0.41142753 3.064600761 0.740845843 0.528976538 0.538087616 0.740845843 0.589767358 0.58087616 0.740845843 0.58087616 0.740845843 0.58087616 0.740845843 0.58087616 0.740845843	0.11057184 0.284003894 0.247245881 0.113141825 0.234786591 0.1351065484 0.221943937 0.055702747 0.13520476 0.1382477 0.055702747 0.12892245 0.105208484 0.221943937 0.055702747 0.12892245 0.105208484 0.055702747 0.12892245 0.1051065702747 0.12892245 0.1051065702747 0.12892245 0.1051065702747 0.12892245 0.1051065702747 0.118928747 0.0525702747	1.282801942 1.28262918 1.281788267 1.28128072 1.28128072 1.28128072 1.28128072 1.28128072 1.28128072 1.28128072 1.28128072 1.28268659 1.28268659 1.28268659 1.28268659 1.282782855 1.282782859 1.2727997561 1.277997761 1.277997761 1.27799772 1.279977972 1.2799772 1.2799772 1.	0.00103786 0.00103786 0.00103151 0.00103151 0.001034736 0.001034736 0.001034736 0.001034736 0.001034737 0.001034737 0.001034737 0.0010347776 0.00104865 0.001034776 0.001034776 0.001034776 0.001034776 0.001055766 0.001055556	0.008782142 0.008782147 0.008782147 0.008782147 0.008782177 0.0088047559 0.008807759 0.008807759 0.008807759 0.008807759 0.008807759 0.008807759 0.008807759 0.008807759 0.008807759 0.008807759 0.008807759 0.008807759 0.008867962 0.008867962 0.008867962 0.008867962 0.008867962 0.008887962 0.008887962 0.008887962 0.008887962 0.008887962 0.008887962 0.008887962 0.008887962 0.008887962
GAS2 FZ07 SSR3 IGS#22 NAT9 IGS#22 NAT9 FRS2 CCL8 MRCRN1 CHMP1B HBCH MRCRN MRCRN DODST LGALSTB TAGLN2 PRS51 RSAD1 SLC30A1 NTAN1 CCL17 STK38 TSR3 INHBA GPN1 CPED1	13927.40099 3308.133457 70.540850. 1061.807488 61075.111900 88.44048455 1602.695656. 2081.559316 158.7080499 245.9634669 245.9634669 245.9634669 245.9634669 245.9634699 245.9634699 245.9634699 246.96349 246.963499 246.96	0.362999022 0.33204068 0.811270126 0.371221800 0.739449112 0.819025068 0.37742478 0.750254022 0.344725273 0.728023462 1.599740008 0.66356253 0.373206122 0.313734125 0.422797356 0.538067614 0.41142753 1.064600761 0.740855843 1.288947015 0.289745381 0.557702586 0.357702586 0.357702586 0.357702586 0.357702586 0.357702586 0.357705481 1.802985695 0.392285696 0.392285696 0.392285696 0.392285696 0.392133406 0.38799135	0.11057184 0.28400389 0.247745881 0.113141851 0.231478629 0.248641977 0.11516098 0.225659238 0.109061848 0.221849807 0.487640386 0.20214997 0.113827478 0.105970274 0.125962843 0.105970274 0.125962843 0.105970274 0.12596285	1 22891974 1 228267818 1 281788267 3 281282077 3 281084119 3 280086059 1 280788267 3 281091207 3 28109	0.00103786 0.00103786 0.00103786 0.00103351 0.00103351 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103590 0.00103590 0.00103590 0.00103590 0.00103590 0.00103590	0.008782142 0.008782142 0.008782147 0.008782147 0.008807259
GAS2 FZD7 SSR3 IG5F22 NAT9 FR52 CCL8 MRRN3 CH0P1B HBCH MRC MRCH MRC	13927.40999 3308.133457 70.5408504 1061.807488 6175.111509 88.44048455 1692.695656 2038.559334 158.7080499 243.9634696 231.121616 1111.6453179 1111.27456 232.81536365 15563.398132 11.87524524 14059.7977 1313.517787 1313.517787 1503.76834 466.631324 2727.40418521	0.362990022 0.332040648 0.811270126 0.377221804 0.759448112 0.8189025068 0.37734578 0.750254022 0.344775273 0.723083465 1.599740008 0.66356253 0.373266782 0.422797358 0.538087614 0.4114273 3.064600761 0.740845843 0.528974058 0.365795443 1.802925650 0.365795434 1.802925650 0.566938143 1.802925650 0.566938143 0.9113046 0.369991135	0.11057184 0.284003840 0.247245881 0.113141842 0.234785881 0.1313478629 0.2349643977 0.115160938 0.2286592758 0.105061484 0.221343937 0.437640888 0.221343937 0.13827274 0.128962724 0.128962724 0.128962245 0.0451524805 0.23524007 0.170727459 0.111692187 0.05234507 0.170727459 0.111692187 0.051587573 0.11382787	3.282891974 3.282562918 3.282562918 3.283562019 3.2831282077 3.283104119 3.28056050 3.280160505 3.2811260605 3.2811260605 3.2811260605 3.2811260605 3.2811260605 3.2811260605 3.280622865 3.277890027 3.277890027 3.27789027 3.2789027 3	0.001037868 0.001037868 0.001038561 0.001038561 0.001034286 0.001034286 0.001034286 0.001034287	0.008782142 0.008782142 0.008782147 0.008782147 0.008782147 0.0088047259 0.00880780 0.00880780 0.00880780 0.00880780 0.00880780 0.00880780
GAS2 FZ07 SSR3 IGS#22 NAT9 FKS2 CCL8 MKRN13 CHMP18 HBCH MKKN MROH5 DDOST LGALS7B TAGLN2 PKS51 RSAD1 SLC30AL NTAN1 CCL17 STK38 TSR3 INHBA GPN1 CCPCI MOBP PWP1 AC010463.1	13927.40099 3308.133457 70.5468520 1061.807488 1061.807488 834.4048455 1692.695656 2083.559316 158.7080499 245.9634696 2313.12561 1116.453179 1111.27456 3218.358639 5563.398112 118.27456 3344372952 2216.573187 3344372952 118.27456 3365633 1903.966737 161.1717807 1503.7668324 4366.63136 4366.631365464 59976.19528 2295.31906246	0.362950072 0.312040668 0.811270126 0.371221806 0.37324172 0.37324172 0.37324172 0.37324172 0.37324172 0.37324172 0.37324172 0.34472573 0.732054022 0.34472573 0.732054022 0.34472573 0.732054022 0.34472573 0.73205402 0.363525353 0.373205122 0.313734172 0.427279326 0.333037614 0.4114273 0.427279326 0.333037614 0.4114273 0.740845843 0.557702586 0.35203702 0.56938143 0.35273620 0.362938143 0.3693113 0.3693113 0.3693113 0.3693113 0.3693113 0.3693113 0.3694540465 0.36938144 0.3213046 0.36938144 0.3213046 0.36938144 0.3213046 0.36938144 0.3213046 0.36938144 0.3213046 0.3695815 0.3665838144 0.3213046 0.3695815 0.3665838144 0.3213046 0.3695815 0.3665838144 0.3213046 0.3695815 0.3665838144 0.3213046 0.3695815 0.3665838144 0.3213046 0.3665838144 0.3213046 0.3665838144 0.3213046 0.3665838144 0.3213046 0.3665838144 0.3213046 0.3665838144 0.3213046 0.3665838144 0.3213046 0.3665838144 0.3213046 0.3665838144 0.3213046 0.3665838144 0.3213046 0.3665838144 0.3213046 0.3665838144	0.11057184 0.28400389 0.247745881 0.11314183 0.2131478622 0.246641977 0.11516098 0.222659278 0.105951646 0.221943987 0.487640388 0.2224497 0.13827478 0.095702747 0.128862235 0.1051516008 0.2256093834 0.81932438 0.81932438 0.81932438 0.81932438 0.81932438 0.81932480 0.111692127 0.111692127 0.113126466 0.2850578777 0.113126466 0.28109001	1.282801976 1.282801976 1.2827826718 1.281788267 1.281788267 1.281788267 1.281788267 1.281786600 1.280788271 1.281176606 1.2817860600 1.2817860600 1.2817860600 1.2817860600 1.2817860600 1.2817860600 1.2817860600 1.2778780600 1.2778780600 1.277879776 1.277869328 1.27889200 1.27579777 1.277869328 1.277897976 1.277879776 1.277869328 1.277879776 1.277869328 1.27879776 1.277879777 1.277879780000 1.277879776 1.277869328 1.278892000 1.2787906000 1.2787060000000000000000000000000000000000	0.00103786 0.00103786 0.00103151	0.008782142 0.008782142 0.008782147 0.008782147 0.008782147 0.00880495 0.008807259 0.008807259 0.008807259 0.008807259 0.008807259 0.008807259 0.008807259 0.008807259 0.008807259 0.008807259 0.008807259 0.008807259 0.008867802 0.00887962 0.00887962 0.00887962 0.00887962 0.00887962 0.00887962 0.00887962 0.00887962 0.00887962 0.00887962 0.00887962 0.00887962 0.00887962 0.00887962 0.00887962 0.00887962 0.00887962
G AS2 F ZD7	13927.40999 3308.133457 705.408304 1061.807488 6175.111309 88.44404855 1092.695656 2038.559314 115.87.608499 245.9634696 243.1321616 1116.453179 1111.272456 2328.1336956 2328.1336956 2328.133695 2563.398132 114.8725425 14.059.37756 3.344372954 14.059.37756 3.344372954 14.059.37756 3.344372954 14.059.37756 3.344372954 14.059.37756 3.344372954 14.059.37756 3.344372954 1507.7408484 1607.187521 183.3965465 1977.740848 1607.187521 183.3965465 19977.19523 183.3965465 19977.19523 183.3965465 19977.19528 183.3965465 19977.19528 19997.19528 1999.19528 1	0.362999022 0.332040634 0.811270126 0.371221800 0.373245100 0.37324570 0.3732570 0.3732570 0.3732570 0.3732570 0.3732570 0.3732570 0.37325731 0	0.11057184 0.284003890 0.247245881 0.113141852 0.23478629 0.247245881 0.131418629 0.248643777 0.115160988 0.2286592758 0.105061484 0.221943937 0.487640888 0.2021943937 0.487640888 0.2021943937 0.1055702747 0.128922224 0.128922243 0.146151306 0.125524807 0.13524877 0.1581512508 0.223603433 0.881932452 0.0110612187 0.115621877 0.115621877 0.11562187 0.	3.28289197 3.28256918 3.28256918 3.28128077 3.28104119 3.28056951 3.2810419 3.28056950 3.281176986 3.281176986 3.281176986 3.281176986 3.27870276 3.277870278 3.277870278 3.277870278 3.277870278 3.277870278 3.277870278 3.277870278 3.277870278 3.277870278 3.277870278 3.277870278 3.277870278 3.277870278 3.277870278 3.2778700776 3.2778700776 3.2778700776 3.2778700776 3.2778700776 3.2778700776 3.2778700776 3.2778700776 3.2778700776 3.2778700776 3.2778700776 3.2778700776 3.2778700776 3.2778700776 3.2778700776 3.2778700776 3.2778700776 3.2778700776 3.2788891028 3.288881028 3.28881028 3.28881028 3.28881028 3.28881028 3.28881028	0.00103786 0.00103786 0.00103856 0.00103856 0.00103856 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103428 0.00103459 0.00103459 0.00103459 0.00103459 0.00103459 0.00103459 0.00103459 0.00103459 0.00103459 0.00103459 0.00103459 0.00103459 0.00103459 0.00103459 0.00103459 0.00103459	0.008782142 0.008782142 0.008782147 0.008782147 0.008782147 0.008877259 0.00880790 0.00880790 0.00880790 0.00880790 0.00880790 0.00880790 0.00880790 0.00880790 0.00880790 0.00880790 0.00880790 0.00880790 0.00880790 0.00880790
GAS2 FZD7 SSR3 IGS#22 NAT9 FFS2 CCL8 MKRN1 C-PMP18 HBCH MACK MROHE DOOST LCA4.578 TAGLN2 PMS51 RSADL SLC2AOLI NATAN1 CCL17 STX38 TTSG SICAOLI MODE DOOST LOA4.578 TAGLN2 PMS51 RSADL SLC3AOLI MODE DOOST STX38 TTSG MODE DOOST STX38 TTSG MODE DOOST STX38 TTSG MODE TTSG MODE TTGG MODE TTGG TTGG TTGG TTGG TTGG TTGG TTGG TT	13927.40099 3308.133457 70.540852 1061.807488 1061.807488 83.4048455 1692.695656 1288.559318 128.7080499 245.9634696 3231.125616 1116.453179 1111.27455 328.1358639 5563.396312 14095.97756 3.944372954 1216.573179 1503.764834 4856.6132 277.4041488 1627.187521 181.3356464 59976.19518 181.3356464 59976.19518 181.3356464 59976.19518 181.3356464 59976.19518 181.3356464 59976.19518 181.3356464 59976.19518 181.3356464 59976.19518 181.3356464 59976.19518 181.3356464 59976.19518 181.3356464 59976.19518 181.3356464 59976.19518 535187034 53518704 53518	0.362999027 0.93204068 0.811270126 0.371221000 0.373240911 0.819025069 0.3736479 0.750254022 0.34475277 0.728053465 1.599740008 0.663562533 0.37336518 0.313736182 0.313736182 0.313736182 0.313736183 0.333206182 0.313736183 0.333206183 0.333206180 0.364600763 0.764600763 0.764600763 0.764600763 0.76460763	0.11057184 0.28400380 0.247245881 0.113141852 0.249643977 0.11516098 0.222669278 0.105061486 0.222969378 0.105061486 0.222969378 0.105061486 0.222969378 0.105061486 0.221949397 0.13322477 0.128862234 0.16113102463 0.225693343 0.851932383 0.8223507 0.17027459 0.111692187 0.111692187 0.111692187 0.113124646 0.25092013 0.132400600 0.113124664 0.25092013 0.380284375 0.045797429 0.113124664 0.25092013 0.380284375 0.045797429 0.1131426646 0.25092013	1.282801974 1.282801974 1.282567918 1.281788267 1.281788267 1.281788267 1.281788267 1.281788267 1.281782667 1.281782667 1.281782667 1.281782667 1.281782667 1.281782667 1.272824060 1.27789281 1.27789276 1.27789281 1.27789276 1.27789276 1.27789276 1.27789276 1.27789276 1.27789276 1.27789276 1.27789276 1.27789276 1.27789276 1.27789276 1.27789276 1.27789276 1.27789276 1.27789276 1.27789276 1.27789276 1.27789276 1.27789276 1.27	0.00103786 0.00103786 0.00103151 0.00103151 0.00103151 0.00103151 0.00103152 0.00103153	0.008782142 0.008782147 0.008782147 0.008782477 0.008782747 0.008847555 0.008847555 0.008867755 0.008867755 0.008867755 0.008867755 0.008867755 0.008867755 0.008867755 0.008867755 0.008867755 0.008867755 0.008867755 0.008867670 0.00886760 0.0088750
GAS2 FZD7 SSR3 IGSF2Z NATPS IGSF2Z NATPS FKS2 CCL8 MKRN13 CHVP1B HBCH MKN13 CHVP1B HBCH MAK MRO16 DDOST LGALS7B TAGIN12 PRS51 RSA01 SICIOA1 NTAN1 CCL17 STS3 INFRA GPN1 CPC01 MODP PWP1 ACDIO463.1 ZNF408 TIC31 LIRLZ ATPSB4	13927.40999 3308.133457 705.408504 1061.807488 6175.111309 88.44048455 1692.695656 2038.559334 158.7080499 245.9634696 243.152616 1116.453179 1111.27456 223.152616 1116.453179 1111.27456 224.152616 1116.453179 1111.27456 124.152616 125.152616	0.362990022 0.332040643 0.811270126 0.371221804 0.739489112 0.8189025068 0.37794878 0.7302540622 0.344725273 0.723023462 1.599740008 0.663562553 0.373367814 0.4114273 3.064600761 0.740845843 0.58087614 0.412673 3.064600761 0.740845843 0.58087614 0.369795341 0.369795341 0.369795431	0.11057184 0.284003840 0.247245881 0.113141845 0.234786591 0.13510618484 0.221943937 0.1050061484 0.221943937 0.1050061484 0.221943937 0.1050061484 0.221943937 0.1050061484 0.221943937 0.1050061484 0.221943937 0.1050061484 0.221943937 0.1050061484 0.10	3.28281974 3.28252918 3.28252918 3.28128207 3.28104119 3.2805600 3.28078807 3.281313203 3.281313203 3.281313203 3.281313203 3.281105600 3.278205603 3.	0.00103786 0.00103786 0.00103786 0.00103351 0.00103351 0.00103428 0.001034806 0.001034806 0.001034806 0.001034886 0.001034886 0.001034886 0.001034886 0.001034886 0.001034886	0.008782142 0.008782147 0.008782147 0.008782147 0.008782755 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.00887802 0.008887802 0.008887802 0.00887802 0.00887802 0.00887802 0.00887802 0.00887802 0.00887802 0.00887802 0.00887802 0.00887802 0.00887802 0.00887802 0.00887802 0.00887802 0.00887802 0.00887802 0.00887802 0.00887802
GAS2 FZD7 SSR3 IGSF22 NATP IGSF22 CCL8 MRRN3 CCL97 IBB IBBCH MMK MRON3 MRON5 M	13927.40998 3308.133457 770.5408504 1061.807488 6175.111909 88.4404855, 1692.695656 1288.75091 245.9634696 245.9634696 245.9634696 245.9634696 245.9634696 245.9634696 245.9634696 245.9634696 246.96797 131.521797 1501.764834 1469.5797 1501.764834 1467.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 1507.87521 1507	0.362999022 0.31204068 0.811270126 0.371221000 0.373240112 0.819025068 0.3732472 0.72025022 0.34472527 0.72025022 0.34472527 0.72025025 0.3472527 0.72025025 0.3472527 0.72025025 0.3472527 0.72025025 0.3472527 0.7202502 0.3472527 0.3202502 0.35037618 0.31207618 0.3	0.11057184 0.28400389 0.24745881 0.11314183 0.231478529 0.245643777 0.115160986 0.222659228 0.105061484 0.221943937 0.487640886 0.20234967 0.133822478 0.035702274 0.128802234 0.1411602187 0.035702277 0.118152937 0.111602187 0.115050864 0.23409609 0.1111602187 0.113126468 0.236083334 0.381932358 0.0824325 0.0113126468 0.23608334 0.381932358 0.082507877 0.111602187 0.550578777 0.113126468 0.23409609 0.11312648 0.23409609 0.11312648 0.235097805 0.155097877	1.282801974 1.282627918 1.281788267 1.281788267 1.281788267 1.281788267 1.281788267 1.281788267 1.28178269 1.28178269 1.28178269 1.28178269 1.28178269 1.277826926 1.277826926 1.277826926 1.277826926 1.277826926 1.277826926 1.277826926 1.277826926 1.277826926 1.277826926 1.277826926 1.277826926 1.277826926 1.277826926 1.27826926 1.27826926 1.27826926 1.27826926 1.27826926 1.2782694825 1.286836178 1.286836178 1.286836178 1.26683817 1.26685817	0.00103768 0.00103766 0.00103151	0.008782142 0.008782147 0.008782147 0.008782477 0.008782747 0.008847555 0.008847555 0.008867755 0.008867755 0.008867755 0.008867755 0.008867755 0.008867755 0.008867755 0.008867755 0.008867755 0.008867755 0.008867755 0.008867670 0.00886760 0.0088750
GAS2 FZD7 SSR3 IGS F22 NATP IGS F22 NATP FES2 CCL8 MARRYS G-MP18 HBDH MACK MRONS G-MP18 HBDH MACK MRONS IGS F22 NATP IGS F22 NATP IGS F23 IGS	13927.40099 3308.133457 70.5408308.133457 70.5408308.133457 70.5408308.133457 10.61.807488 81.4048453 1692.695636 2038.535933 158.7080499 243.131.25616 1116.453179 1111.7246 225.8158633 5503.396132 1118.73524 14095.97756 3343417277 1501.74081488 1507.81873313 1507.81873313 1607.81873313 181.395464 59976.19528 277.4041488 1507.81873313 1617.81873313 173.451873313 173.451873313 173.451873313 173.451873313 173.451873313 173.52488124 173.8519483 175.2548124 176.619464 177.8519483 175.2548124 177.8519483 175.2548124 177.8519483 175.2548124 177.8519483 175.2548124 178.8519483 178.8519483 175.2548124 178.8519483 175.2548124 178.8519483 175.2548124 178.8519483 175.2548124 178.8519483 175.2548124 178.8519483 178.8	0.362990022 0.332006684 0.811270126 0.371221800 0.739489112 0.819025068 0.37794878 0.750254022 0.344775273 0.720083461 1.590740008 0.66356253 0.373266782 0.3437367854 0.41467273 3.064600761 0.740845843 0.58064600761 0.740845843 0.58064600761 0.740845843 0.58064600761 0.740845843 0.58064600761 0.740845843 0.58064600761 0.740845843 0.58064600761 0.740845843 0.58064600761 0.7702586 0.365795443 0.365795443 0.365795443 0.95113046 0.366991135 0.5866450465 0.1242906618 0.149676905 0.27779702836 0.5808494345435 0.590404943	0.11057184 0.284003840 0.247245881 0.113141845 0.234786591 0.135166984 0.221943937 0.135166984 0.221943937 0.436740886 0.221943937 0.436740886 0.23194397 0.13827245 0.13827247 0.12882245 0.045179124696 0.1311692187	1 22891974 1 28259781 1 281788267 3 28128207 3 28104119 3 2806009 1 28078827 1 28101209 1 2810	0.00107588 0.00103786 0.00103851 0.00103851 0.00103400 0.00103852 0.00103400 0.00103852 0.00103400 0.00103852 0.0010352	0.008782142 0.008782147 0.008782147 0.008782147 0.00878217 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.00887802
GAS2 FZD7 SSR3 IG5872 NAT9 FR52 CCL8 MARSN3 CHAP1B HBCH MAX MROH5 DOOST LGAS78 TAGLN2 PRS51 RSA01 SLC10A1 NTAN1 CCL17 STK18 GPN1 CCL17 STK18 GPN1 CPE01 MPS04 GPN1 CPE01 MPS04 TTG31 LR182 ATPR84 STPR84 STPR84 STPR84 STPR84 STPR84 STPR884 STPR88	13927.40998 3308.133457 770.5408504 1061.807488 6175.111909 88.4404855, 1692.695656 1288.75091 245.9634696 245.9634696 245.9634696 245.9634696 245.9634696 245.9634696 245.9634696 245.9634696 246.96797 131.521797 1501.764834 1469.5797 1501.764834 1467.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 181.3965464 1507.7187521 1507.87521 1507	0.362999022 0.31204068 0.811270126 0.371221000 0.373240112 0.819025068 0.3732472 0.72025022 0.34472527 0.72025022 0.34472527 0.72025025 0.3472527 0.72025025 0.3472527 0.72025025 0.3472527 0.72025025 0.3472527 0.7202502 0.3472527 0.3202502 0.35037618 0.31207618 0.3	0.11057184 0.28400389 0.24745881 0.11314183 0.231478529 0.245643777 0.115160986 0.222659228 0.105061484 0.221943937 0.487640886 0.20234967 0.133822478 0.035702274 0.128802234 0.1411602187 0.035702277 0.118152937 0.111602187 0.115050864 0.23409609 0.1111602187 0.113126468 0.236083334 0.381932358 0.0824325 0.0113126468 0.23608334 0.381932358 0.082507877 0.111602187 0.550578777 0.113126468 0.23409609 0.11312648 0.23409609 0.11312648 0.235097805 0.155097877	1.282801974 1.282627918 1.281788267 1.281788267 1.281788267 1.281788267 1.281788267 1.281788267 1.28178269 1.28178269 1.28178269 1.28178269 1.28178269 1.277826926 1.277826926 1.277826926 1.277826926 1.277826926 1.277826926 1.277826926 1.277826926 1.277826926 1.277826926 1.277826926 1.277826926 1.277826926 1.277826926 1.27826926 1.27826926 1.27826926 1.27826926 1.27826926 1.2782694825 1.286836178 1.286836178 1.286836178 1.26683817 1.26685817	0.00103768 0.00103766 0.00103151	0.008782142 0.008782147 0.008782147 0.008782147 0.008782147 0.008782175 0.00882759
GAS2 FZ07 SSR3 IGS#22 NATP IGS#22 CCL8 NARRN3 CREP18 HBCH MARK MROHB DOSST LGALS7B TAGLN2 PISS1 RSADI SICZOMI NITAN IGGERA SICZOMI NITAN IGGERA TAGLN2 PISS1 RSADI SICZOMI NITAN IGGERA TAGLN2 TAGLN2 TAGLN2 PISS1 RSADI SICZOMI NITAN IGGERA TAGLN2 T	13927.40099 3308.133457 70.5408306.133457 170.5408306.133457 170.5408306.1308.133457 1601.807488 8.64048455 1602.695656. 1618.75.93366.138.75.9336.138.75.9336.138.75.9336.138.75.9336.138.75.9336.138.75.9336.138.75.9336.138.75.9336.138.75.9336.138.75.9336.138.75.9336.138.75.9336.138.75.9336.138.75.9336.138.75.9336.138.75.9336.138.75.9336.138.75.9336.138.75.9	0.362959072 0.31204056 0.811270126 0.371221806 0.371221806 0.37324572 0.37221806 0.37324572 0.37324572 0.37324572 0.37324572 0.344725273 0.723054022 0.344725273 0.723054022 0.365350533 0.373205182 0.313734127 0.422797356 0.533037614 0.4114273 0.422797356 0.533037614 0.4114273 0.422797356 0.33037614 0.313734127	0.11057184 0.28400389 0.247745881 0.113141851 0.231478629 0.245641977 0.11516098 0.225659228 0.105906184 0.221649807 0.487640386 0.20214997 0.1131419807	1 22891974 1 22856781 1 281788267 3 281282077 3 28104119 3 28068059 1 28078827 1 2810110589 1 28	0.00103768 0.001037868 0.00103851 0.00103851 0.00103852	0.00872150 0.008782142 0.008782147 0.008782147 0.008871759 0.008807259 0.008907251
GAS2 FZD7 SSR3 IGSF22 NATP FKS2 CCL8 MRRN3 CHAP1B HBCH MAC MRRN3 CHAP1B HBCH MAC MRSN3 CHAP1B HBCH MAC MAC MRSN3 CHAP1B HBCH MAC	13927.40999 3308.133457 705.408304 1061.807488 6175.111909 88.44048455 1692.695656 2038.559314 158.7080499 245.9634696 245.9634696 245.9634696 245.9634696 245.9634696 253.132616 1116.453179 1111.27456 258.3398132 114.075.2775 114.075.2775 115.07.64834 116.717875 116.1717787 117875 117875 118.3365466 1177.187521 118.33965466 118.778751 118.3965466 118.778751 118.3965466 118.778751 118.3965466 118.778751 118.3965466 118.778751 118.3965466 118.778751 118.3965466 118.778751 118.3965466 118.778751 118.3965466 118.778751 118.3965466 118.778751 118.3965466 118.778751 118.3965466 118.778751 118.3965466 118.778751 118.3965466 118.778751 118.3965466 118.778751 118.3965466 118.778751 118.3965466 118.778751 118.3965466 118.778751 118.3965466 118.778751 118.3965466	0.362999022 0.33204026 0.31270126 0.377242100 0.373221000 0.37322100 0.37324071 0.31305500 0.37324072 0.34475273 0.728053465 1.999740008 0.66350533 0.3732575 0.32305125 0.33235625 0.332057614 0.41142753 3.064600761 0.74085843 0.26974533 1.80995595 0.33235626 0.36974534 0.36974533 0.3697453 0.36974533 0.3697453	0.11057184 0.28400389 0.24745881 0.113141852 0.248693258 0.128478629 0.248643777 0.115160988 0.22869258 0.105061484 0.221943937 0.487640888 0.20234967 0.13382477 0.1358277 0.1382777 0.13828777 0.13828777 0.13828777 0.13828777 0.13828777 0.13828777 0.13828777 0.13828777 0.13828777 0.13828777 0.13828777	3.28281974 3.28259918 3.28256918 3.28128077 3.28128077 3.28104119 3.28056009 3.28056009 3.28056009 3.28056009 3.28117600 3.281012009 3.271790007 3.27790007 3.27790007 3.27790007 3.2779007 3.2779007 3.2779007 3.2779007 3.2779017	0.00103768 0.00103768 0.00103851 0.00103856 0.00103428	0.008782142 0.008782142 0.008782147 0.008782147 0.008782147 0.008782755 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.008807255 0.00880725 0.00880725 0.00880725 0.00880725 0.00880725 0.00880725 0.00887902 0.00887902 0.00887902 0.00887902 0.00887902 0.00887902 0.00887902 0.00887902 0.00887902 0.00887902 0.00887902 0.00887902 0.00887902 0.00897919
GAS2 FZD7 SSR3 IGS922 NAT9 FFS2 CCL8 MARN3 C-WP18 HBCH MACK MOOHS DOOST LCALS7B TAGLN2 PFSS1 RSADL SLCSOAL NTAN1 CCL17 STK38 TTSR3 INFBA GFN1 CCPEDL MOSP MOSP MOSP TCTC11 LIRL2 ATPBBA STNDIG1 LIRL2 ATPBBA STNDIG1 LIRL2 ATPBBA GGLA7 LITA	13927.40099 3308.133457 70.540852 1061.807488 61061.807488 61075.111900 88.44404855 1692.695656 1288.559316 1288.559316 1288.7600499 245.9634696 243.9634696 243.132561 1116.453179 1111.2745 1288.558339 1288.358339	0.362990027 0.93204068 0.811270126 0.37324100 0.37324100 0.37324100 0.37324071 0.81005506 0.37324071 0.750254022 0.34472527 0.720053462 0.333734127 0.720053462 0.33373105182 0.3337305182 0.3337305182 0.3337305182 0.3337305183 0.3337305183 0.3337305183 0.3337305183 0.3337305183 0.3337305183 0.3337305183 0.3367355435 0.336735435 0.3367355435 0.3367355435 0.3367355435 0.3367355435 0.336735435 0.3367355435 0.3367355435 0.3367355435 0.3367355435 0.336735435 0.3367355435 0.3367355435 0.3367355435 0.3367355435 0.336735435 0.3367355435 0.3367355435 0.3367355435 0.3367355435 0.336735435 0.3367355435 0.3367355435 0.3367355435 0.3367355435 0.336735435 0.3367355435 0.3367355435 0.3367355435 0.3367355435 0.336735435 0.3367355435 0.3367355435 0.3367355435 0.3367355435 0.33673545 0.33673554 0.3367354 0.33673554 0.	0.11057184 0.28400389 0.247245881 0.113141852 0.246643977 0.115160936 0.227245881 0.113141852 0.246643977 0.115160936 0.2225692785 0.105061486 0.221949397 0.487640886 0.20234957 0.133827477 0.128882245 0.164151306 0.125574800 0.125574800 0.125574800 0.11512574800 0.11512574800 0.11512574800 0.11512574800 0.11512574800 0.11512574800 0.11512574800 0.11512574800 0.11512574800 0.11512574800 0.11512574800 0.11512574800 0.11512574800 0.115125750 0.115125750 0.115125750 0.115125750 0.115409613	1.282801979 1.282801979 1.28278267 1.281788267 1.281788267 1.281788267 1.281788267 1.281788267 1.281782667 1.28078827 1.28178266 1.28078827 1.28178266 1.28178266 1.277827853 1.277827853 1.277827853 1.277827853 1.277827853 1.277827853 1.277827853 1.277827853 1.277827853 1.277827853 1.277827853 1.277827853 1.277827853 1.277827853 1.277827853 1.277827853 1.277827853 1.277827853 1.278278263 1.278278263 1.278278263 1.278278263 1.278278263 1.278278263 1.28883125 1.288883125 1.288883125 1.288883125 1.288883125 1.288883125 1.288883125 1.288883125 1.288883125 1.28	0.00103786 0.00103786 0.00103151 0.00103151 0.00103151 0.00103151 0.00103151 0.00103151 0.00103151 0.00103151 0.00103151 0.00103170 0.00103171	0.008782142 0.008782142 0.008782147 0.008782147 0.008782147 0.008782755 0.008807255 0.00887901 0.00887901 0.00887901 0.00887901 0.00887901 0.00887901 0.00887901 0.00897901 0.00897901 0.00897901 0.00897901 0.00897901 0.00997901 0.00997901 0.00997901 0.00997901 0.00997901 0.00997901 0.00997901 0.00997901 0.00997901 0.00997901 0.00997901

	NT5C3B	2450.531891	0.389039751	0.119321158	3.260442294	0.001112386	0.009301344
1.000	DPM3	1399.156573	0.645057141	0.197859656	3.260175185	0.001113434	0.009301668
	QRFP	7.468202824	1.733831379	0.531877404	3.259832746	0.001114779	0.009308685
Color							0.009333046 0.009333046
1995 1996							
1. 1. 1. 1. 1. 1. 1. 1.	ATXN1	2440.104327	-0.521079444	0.159953349	-3.257696369	0.001123205	0.009353614
1985 1985	FAM76B	566.500319	-0.415674727	0.127612659	-3.257315761	0.001124712	0.009359978
							0.009359978 0.009364066
	ARF5						0.009369102
Company Comp	CDK6	1841.345392	-0.76257471	0.234209404	-3.255952573	0.001130126	0.009385803
Control					-3.255035019		0.009405304 0.0094077
Part							
1975 1970						0.001139148	
1.000000000000000000000000000000000000	NKTR	4027.225472	-0.567946526	0.174622113	-3.252431874	0.00114422	0.009472971
1972 1961 1962 1966							0.009483907 0.009496393
1985 1985							0.009530123 0.009559484
1965 1965							
1.0000000	COL5A3	6280.905317	-0.858533951	0.264321772	-3.248063696	0.001161933	0.009589456
140.0000							
1985 1985							0.009635566 0.009636693
	ACER3		-0.507077641	0.156224378	-3.245829156	0.001171091	0.009643447
MATERIAL 1917/701	POR	3260.391654	0.368003366	0.113398147	3.245232628	0.001173547	0.009655045
December							0.009665235 0.009700648
1989.000 1989.000							0.009700648
March	TCEA3	978.6822017	0.675486577	0.208256641	3.243529586	0.001180585	0.009700648
1977 191	MIIP	2098.408073	0.567019473	0.174920528	3.241583356	0.001188677	0.009749053
Company							0.009779559 0.009779559
MATERIAN 123.5002 0.0000000 0.00000000 0.00000000 0.00000000							
Total	MAPK15	124.3366817	-1.488924448	0.459802868	-3.238179994	0.001202949	0.009844203
1.000	NDUFA7	2522.712794	0.487013179	0.150452033	3.236999666	0.001207936	0.00987624
PATE							0.009911038 0.009911038
2002-2016 488 54515							0.00992141 0.009965384
1975 1985		4894.564354	-0.279888821	0.086564124	-3.233311985	0.001223639	
March S. 6,849606 G. 6547901 G. 2007005 G. 2007	TENTSA	1119.859537	0.885113902	0.273745156	3.233350003	0.001223476	0.009975029
MARK 1971-06100							
SECOLIA \$13.000000							0.010005146 0.010005146
SAMPATE SAMP							
1996 1996	N LRC3	92.45074932	-0.763967495	0.236433436	-3.231215977	0.001232648	0.010016077
ECW7	LYAR	496.56183	0.456884793	0.141477775	3.22937502	0.001240611	0.010071903
SEPT	THAP9 HECW 2	292.6580665 1068.444594	-0.463940992 -0.657190814	0.143692264 0.2035639	-3.228712376 -3.228425141	0.001243489 0.001244738	0.010090822 0.010096515
187							0.010144706 0.010163981
Core							0.010173566
MACC 4765.50000	CXCR6	42.80334655	-1.381269835	0.428351309	-3.224619149	0.001261404	0.010209225
MART 1788 1785							
Tell							0.010249701 0.010296894
ATG LD 357.049105 -0.394806407 -0.122626149 -3.20099508							0.01032368
CROPTO	ATG 10	357.0349106	-0.394868402	0.122626149	-3.220099508	0.001281461	0.010339775
\$CC2A 719 928400 0.25237089] 0.078419128 3.21823130] 0.001289838 0.0108916 ORX2 274.008747 0.688421699 0.213953141 3.217623377 0.00129252 0.01040622 VANTR 343.939388 0.530718673 0.168995004 3.216573011 0.00129731 0.0104022 XANTR 2746.3397795 0.554931332 0.169749724 3.216108317 0.00129917 0.0104022 XANTR 3746.3397795 0.554931332 0.169749724 3.216108317 0.00129917 0.0104022 XANTR 0.746.3397795 0.054931332 0.169749724 3.216108317 0.00129917 0.0104022 XANTR 0.746.3397795 0.048731341 0.15008395 3.216192997 0.001299034 0.0104082 XCDN3D 0.783841741 0.030941395 0.095144655 3.215549377 0.00139099 0.0104082 XCDN3D 0.762.7434474 0.03386474 0.0012973134 3.21531015 0.00130251 0.0104082 TARMSD 0.762.7434474 0.03386474 0.039273134 3.21531015 0.00130251 0.0104082 TARMSD 0.762.7434474 0.03386474 0.03927313 3.21531015 0.00130251 0.0104082 TARMSD 0.762.7434474 0.03386474 0.03927301 3.216314932 0.00130755 0.0104082 TARMSD 0.762.7434474 0.03386474 0.33927201 3.216314932 0.00130755 0.0104082 TARMSD 0.762.7434474 0.0388648 0.039273134 3.21339193 0.00130756 0.0104082 TARMSD 0.762.7434474 0.0388648 0.03927313 3.21314693 0.00130756 0.0104082 TARMSD 0.762.7434474 0.0388648 0.039273191 3.216314938 0.00130756 0.0104082 TARMSD 0.762.7434474 0.038848 0.03927451 0.32938919 0.00130756 0.0104082 TARMSD 0.762.7434474 0.038848 0.03927451 0.329384919 0.001313264 0.0105209 TARMSD 0.762.74548773 0.99710667 0.188528666 3.21284919 0.00131256 0.0105209 TARMSD 0.762.74548773 0.99710667 0.188528666 3.21284771 0.00131442 0.0105209 TARMSD 0.762.74548773 0.99710667 0.188528666 3.21284771 0.0013142 0.00131255 0.0105209 TARMSD 0.762.74548773 0.99710667 0.188528666 3.21284771 0.00131442 0.0015229 TARMSD 0.762.74548773 0.99710667 0.1							
W537D 436.593980 0.530718673 0.16499500 3.216574201 0.00129917 0.0104022							0.010359635 0.010389168
EMIR 746,3397795							0.010406481
2NF330 128.511741 0.305941955 0.095144655 3.21554575 0.001301969 0.01064801 PRE2 601.966099 0.29817008 0.092735134 3.215531015 0.001302551 0.010465801 PRE2 601.966099 0.29817008 0.092735134 3.215531015 0.001302551 0.010465801 PRE2 1 136.2917238 1.15474910 0.359252011 3.21431034 0.00130755 0.01049328 PREA 2 11.95269 0.359014558 0.110460994 3.21398193 0.001307562 0.01049328 PREA 2 11.9528181 0.810344399 0.2539119 3.213119305 0.001313044 0.01050208 SOST 7 7.455894195 1.792495115 0.537850386 3.213218486 0.001312564 0.01052008 SOST 7 7.455894195 1.792495115 0.537850386 3.213218486 0.001312564 0.01052008 SOST 8 7.465894195 0.597120667 0.185828666 3.21328499 0.001312255 0.01052008 SOST 9 7.465894195 0.61052400 0.185828666 3.21328499 0.001312256 0.01052008 SOST 9 7.465894195 0.61052400 0.185828666 3.21328499 0.001312256 0.01052008 SOST 9 7.465894195 0.465750822 0.206283877 0.21281271 0.00131422 0.01052028 SOS APB 1338.289496 0.662750822 0.206283877 0.21281271 0.00131422 0.01052028 SOS APB 1338.289496 0.462746826 0.15052030 3.21216490 0.001317388 0.01054040 SOST 9 1100.032448 0.48294158 0.15042538 3.21254299 0.001317388 0.01054040 SOST 1 100.032448 0.48294158 0.15042538 3.21254299 0.001317300 0.01054028 SOS APB 1338.747499 1.188088894 0.369743703 3.20815005 0.00132804 0.01064292 SOST 1 1899.086638 0.48122128 0.14942003 3.209382765 0.00133003 0.01064792 SOST 1 1899.086638 0.48122128 0.14942003 3.209382765 0.00133334 0.01064782 SOST 1 1899.086638 0.48122128 0.14942003 3.209382765 0.00133334 0.01064782 SOST 1 1899.086638 0.48122128 0.14942003 3.209382765 0.00133334 0.01064793 SOST	KANTR	746.3597795	-0.545933532	0.169749724	-3.216108517	0.001299417	0.01044806
The No.							
PARDAA 1217.992000							0.01046654 0.010493287
CERA 195.5878181 -0.81034496 0.252199119 -3.21311505 0.00131064 0.01052000 SOST 7.48589496 1.792489113 0.53785088 3.213114848 0.00131256 0.01052000 SICDAM 276.84773 0.957120687 0.18528066 3.12128499 0.00131255 0.01052000 INPPAR 276.4886152 -0.610524105 0.19002018 -1.2128427 0.00131824 0.01052205 SIGKAP2B 1338.289496 -0.66750822 0.00623807 -3.212162499 0.001313728 0.01052206 Cofedo 5681.7911 -0.67750821 0.12623602 3.212162499 0.001317398 0.0105200 NPP2 1100.032648 0.48941568 0.15042538 3.210508025 0.00132500 0.01058208 GZMB 101.6174091 1.1886889 0.369743703 3.20810025 0.00132500 0.01058208 GZMB 101.6174091 1.1886889 0.287171764 3.20331828 0.01013200 0.0105279 GZMA 1.8189.066538 0.481221281 0.149942003 3.2							0.010495233
\$16DAA 276.84773 0.597120687 0.185828666 3.212386199 0.001312255 0.01052000 \$18PAB 276.4866152 0.610524105 0.19002018 -3.21284287 0.001313824 0.01052238 \$1388.28998 0.665790827 0.206283677 -3.212842877 0.001313824 0.01052238 \$1388.28998 0.665790827 0.206283677 -3.212842721 0.00131402 0.0105227 \$1500 5.5885.17911 0.65720331 0.142336302 3.21216299 0.001317308 0.0105272 \$1100.032648 0.68294358 0.1522388 3.210508925 0.001325002 0.01059828 \$67M0 10.0376499 1.186808899 0.369743703 3.2061500925 0.00132500 0.01059828 \$67M0 10.6574099 1.186808899 0.369743703 3.2061500925 0.00132500 0.01059828 \$67M1 3765.714659 0.78157466 0.223771764 -3.209331288 0.00133039 0.01062739 \$50P41 3765.714659 0.481212181 0.169942003 3.039832762 0.001330030 0.01062739 \$50P41 1899.066638 0.481212181 0.169942003 3.039832762 0.001330303 0.01062739 \$50P41 1899.066638 0.481212181 0.169942003 3.039832762 0.001330303 0.01062739 \$50P41 1899.066638 0.481212181 0.169942003 3.30981010 0.00133334 0.010667485 \$6P81 0.55267739 0.594424339 0.185305748 3.207017113 0.00133334 0.01067438 \$78 377.748204 0.056099797 0.18852951 3.207017113 0.00133334 0.01068510 \$78 377.748204 0.056099797 0.18852951 3.207017113 0.00134719 0.01068510 \$78 377.748204 0.056099797 0.18852951 3.207017113 0.00134719 0.01068510 \$78 377.748204 0.056099797 0.18852951 3.207017113 0.00134719 0.01068510 \$78 377.748204 0.056099797 0.188528004 0.057137208 3.207017113 0.00134719 0.01068510 \$78 377.748204 0.056099797 0.18852901 3.207017113 0.00134719 0.01068510 \$78 377.748204 0.056099797 0.18852901 3.207017113 0.00134719 0.01072824 \$78 4000000000000000000000000000000000000	CD8A	195.5878181	-0.810344396	0.252199119	-3.213113505	0.001313044	0.010520907
\$86,AP28							
Coeffs							0.010522584 0.01052278
GZMB 10.6374051 1.186088884 0.36974700 3.209815025 0.00132206 0.01052205 SOMP1 3765.714465 0.716157846 0.22377176 3.209815025 0.00132006 0.01052205 SOMP1 3765.714465 0.78157846 0.22377176 3.209813123 0.00130039 0.01062739 0.00133731 0.0106478 0.01062739 0.01062739 0.01062739 0.01062739 0.01062739 0.01062739 0.01062739 0.01062739 0.01062739 0.01062739 0.00133751 0.01062739 0.01062739 0.01062739 0.01062739 0.00133751 0.00133751 0.01062739 0.01062739 0.00133751 0.01062739			0.457207331	0.142336302			0.010542047
COPAT 1899.086638 0.481221281 0.149942003 3.209832762 0.001330303 0.01062793 DOCK4 3341.73997 0.748827976 0.23371199 -3.20874928 0.00133134 0.01064783 EW1 615.2677298 0.96424318 0.18550748 3.07893015 0.00133731 0.0106733 FWK 377.748204 0.605097917 0.188659917 -3.207415520 0.00139334 0.01068510 ATMN 3813.877791 0.18374000 0.057137208 3.207017113 0.013419 0.01069528 MIUSI 798.176714 0.67869341 0.210218056 -3.206007181 0.0134956 0.0107284 ZACN 8.161323945 1.55246559 0.484260915 3.205806838 0.0014768 0.0107284 DCKA 1.213.5172 0.31435551 0.08626015 3.2058068342 0.001477408 0.0107284 DCKA 1.213.5172 0.64377723 0.1965553 3.20510866 0.00135064 0.0107284 DCKA 1.213.5172 0.64377723 0.16739700 3.20436576	GZMB	103.6374091	1.186808894	0.369743703	3.209815025	0.001328204	0.010619295
ERN1 615.267728 0.59424336 0.183305748 3.207803015 0.001337331 0.01067333 FRK 377.48204 0.650597917 0.188655917 3.207415528 0.00133934 0.01068531 ATMM 3181.87793 0.183240004 0.05737208 3.207017113 0.00134119 0.01069528 ZNF683 22.98451373 1.27096542 0.396432493 3.206007181 0.001345906 0.01072824 MTUS1 7983.176714 0.675869341 0.212018054 3.205806818 0.01346835 0.01072824 ZKM 816123945 1.552346519 0.494260715 3.205806818 0.001347616 0.01072824 ZKM 816123945 0.31632454 0.098062154 3.205806814 0.00134706 0.01072824 ZKM 1213.51737 0.314356541 0.098062154 3.205806842 0.00134708 0.01072854 ZKM 1213.51737 0.516371729 0.31685533 3.20510866 0.00135047 0.01072854 ZKM 1213.51737 0.54384246 0.167391706 3.205865528 0.00355064 0.01078552 ZKM 1213.51737 0.54384246 0.167391706 3.205865528 0.00355064 0.01076552							
FRK 377.748204 0.605097917 0.188659917 -3.207415528 0.00139934 0.01088510 ATMMN 3813.877792 0.183240000 0.057137208 3.207017113 0.00134119 0.01086528 ZEF683 22.98451328 -1.27096542 0.396432493 -3.00007181 0.00134596 0.01072824 MTUS1 798.176714 0.457969341 0.212018056 -3.205007181 0.00134595 0.01072824 ZACN 8.161323945 1.52346399 0.484260915 3.20590910 0.00147616 0.01072854 ZACN 8.161323945 0.334355541 0.088063164 3.205806342 0.001347408 0.01072854 CEFA 1213.51782 0.54371723 0.191685533 3.20510866 0.00130147 0.01072854 CEFA 1213.51782 0.643717123 0.191685533 3.20510866 0.00130147 0.01072854 CEFA 1213.51782 0.643717123 0.191685533 3.20510866 0.00130147 CEFA 1213.51782 0.643717123 0.191685533 3.20510866 0.00130147 CEFA 1213.51782 0.643717123 0.191685535 3.20510866 0.00130147 CEFA 1213.51782 0.643717123 0.191685535 3.20510866 0.00130147 CEFA 1213.51782 0.643717123 0.191685535 3.20510866 0.00130147 CEFA 1213.51782 0.54384124 0.167381700 3.204865750 0.00155004 0.01076852						0.001333134	
2NF683 22.98451323 -1.27096542 0.396432493 -3.206007181 0.001345966 0.01072824 MTUS1 798.17674 -0.679889341 0.212018064 -3.205806818 0.001346835 0.01072954 ZCN 8.16123945 1.552146519 0.484260915 3.00599109 0.00134716 0.01072954 NM35 2294.40178 0.314356541 0.098062164 3.20568642 0.001347408 0.01072954 DCKA 1213.51782 0.614371723 0.31685533 3.20510866 0.00135047 0.01074542 RB52 43460.00138 0.55834246 0.16739170 3.204855728 0.00135060 0.0107652 CD69 10433441 -1.268082499 0.395812911 -3.20712134 0.00135630 0.0107850	FRK	377.748204	-0.605097917	0.188655917	-3.207415528	0.001339334	0.010685101
Z/CN 8.161223945 1.552346359 0.484266915 3.205599109 0.001347816 0.01072854 R&BS 2294.01578 0.31335541 0.09802164 3.20568342 0.00134708 0.01072954 DGKA 1213.51782 0.614371723 0.19168553 3.20510866 0.00150147 0.01074364 P852 4346000138 0.35388426 0.167391704 3.20365788 0.00133604 0.0107652 C069 104.334341 -1.268082499 0.395812911 -3.203742134 0.00135639 0.0107850	ZNF683	22.98451323	-1.27096542	0.396432493	-3.206007181	0.001345906	0.010728247
DGKA 1213.51782 0.614371723 0.191685553 3.205101866 0.001350147 0.01074346 RP52 43460.00138 0.536384246 0.167391704 3.204365758 0.001353604 0.01076632 CD69 104.3343411 -1.266082499 0.395812911 -3.203742134 0.00135639 0.01078501							0.010729549 0.010729549
RF52 4366.00138 0.536384246 0.167391704 3.204365758 0.001353604 0.01076632							0.010729549 0.010743462
	RPS2	43460.00138	0.536384246	0.167391704	3.204365758	0.001353604	0.010766322
							0.010785013 0.010806347

ZNF584	546.6008718	0.357366077	0.111573936	3.20295303	0.001360262	0.010806347
BORCS6	728.2387595	0.500158796	0.156166774	3.202722225	0.001361352	0.010809289
CCDC73	1.369855751	-1.461721192	0.456632144	-3.201091319	0.001369081	0.010841353
IQCI-SCHP1 PPM1B	2466.861044	-0.648179254	0.202488859	-3.201061325	0.001369224	0.010841353
	2811.103002	-0.368086711	0.11499111	-3.201001474	0.001369508	0.010841353
RRAS	1982.541064	0.654145862	0.20434299	3.201215083	0.001368493	0.010841353
RBM38	2028.000388	0.515614208	0.161059638	3.201386847	0.001367678	0.010841353
LMN B2 SIG LEC14	2241.477866	0.497970576 1.027948714	0.155537793	3.201604992	0.001366643	0.010841353
N DU FA6	736.7281855 1855.833969	0.531516823	0.321069827 0.16611818	3.20163599 3.199630668	0.001366496 0.001376038	0.010841353 0.010888366
PRIMPOL	408.1042917	-0.33680004	0.10527634	-3.199199751	0.001378096	0.010899974
DOCK3	2339.955661	-0.865224493	0.270475019	-3.198907228	0.001379496	0.010906359
FTL	389573.5673	0.800418685	0.250251868	3.198452393	0.001381673	0.010918894
ZFAN D3	4584.727781	-0.453239972	0.141724615	-3.198032835	0.001383685	0.010930105
EXO C6B	2476.502099	-0.658516969	0.205976018	-3.197056501	0.001388377	0.010955232
RALG APA1	2237.29493	-0.591314978	0.184959332	-3.19699996	0.001388649	0.010955232
NAPA	9143.049665	0.3899063	0.121952908	3.197187385	0.001387747	0.010955232
ZDHHC11B	2226.331264	-0.753003551	0.235618601	-3.195857833	0.001394158	0.010993982
N DU FA8	2783.541984	0.412132532	0.128968213	3.195613262	0.00139534	0.010998598
MCRIP1	7748.76379	0.5010936	0.156824227	3.195256309	0.001397067	0.011007503
SHBTC2	1498.684884	-0.837401143	0.262115974	-3.194773404	0.001399407	0.01101233
PDE4B	4144.977991	-0.485028171	0.151819916	-3.194759845	0.001399472	0.01101233
FXYDS	3842.619513	0.821324397	0.257071387	3.194927312	0.001398661	0.01101233
BIN3	1080.686195	0.335315758	0.104985016	3.19393921	0.001403457	0.011034259
BCL2L14	18.27212276	1.308430049	0.409658734	3.193951304	0.001403398	0.011034259
G MPPA	2092.603931	0.459992687	0.144076793	3.192691038	0.001409537	0.011077336
SIAH2	1217.847831	0.383567616	0.120149168	3.192428392	0.001410819	0.011082688
CFAP43	230.3758713	-0.845798297	0.264954909	-3.192234863	0.001411765	0.011085392
MFAP2	211.9629264 8263.206878	1.320101821	0.413747237	3.190599724	0.001419778	0.011143567
CHMP2A	1566.858023	0.603646471	0.189213032	3.190300716	0.001421248	0.01114561
NIFK		0.330045391	0.103449163	3.190411436	0.001420704	0.01114561
KCN K16	1.633386532	-1.880210999	0.589465579	-3.189687519	0.001424267	0.011164533
DPCD	795.4641011	0.4640304	0.145513201	3.188923044	0.001428039	0.01118934
EBN A1BP2	3143.154611	0.398221949	0.124898977	3.188352371	0.001430861	0.011206685
BATF3	347.577792	0.822245965	0.257985125	3.187183615	0.001436655	0.011247291
BMP2K	2999.306867	-0.537937733	0.168834228	-3.186188848	0.001441605	0.01126774
DCU N 1D5	749.0533425	0.272150212	0.085422753	3.185921789	0.001442936	0.01126774
GJB3	38.49189157	1.628020289	0.510998316	3.185960184	0.001442745	0.01126774
TMPRSS5	2069.965116	0.762345901	0.239273556	3.186085053	0.001442122	0.01126774
W DR77	1838.121324	0.378462767	0.118779632	3.186259799	0.001441251	0.01126774
DDK50	1283.584238	0.24975814	0.078380354	3.18648907	0.001440109	0.01126774
NIP7	752.910011	0.360987407	0.113319307	3.18557727	0.001444655	0.011276387
PEX2	2045.541782	-0.406144684	0.127511291	-3.185166427	0.001446708	0.011287628
PTG DR	13.66033414	-1.20299875	0.377763929	-3.184525195	0.001449917	0.011307879
GADD45A	4392.468551	0.811045307	0.254698163	3.18433905	0.00145085	0.011310368
PLEKHG3 MYO1D	6975.809368 3585.160199	-0.627962197 -0.778624211	0.197239652 0.244605177	-3.183752312 -3.183187784	0.001453794 0.001456631	0.011310308 0.011328525 0.011345839
JAZF1 FAM170A	1085.394165 1.991151495	-0.778624211 -0.510827309 -1.75585485	0.160489007 0.551684952	-3.182942676 -3.182712967	0.001457865 0.0014579022	0.01135065 0.011354779
NMT2 H2BFS	712.511623 31.73915086	-1.75585485 0.396939387 0.874749029	0.124722014 0.274905371	-3.182/1296/ 3.182592817 3.182000499	0.001459022 0.001459627 0.001462616	0.011354779 0.011354779 0.011373225
MYRF	24347.16299	-0.714670803	0.224637608	-3.18143881	0.001465455	0.011390496
DIS3L2	1157.210959	-0.44803608	0.14084902	-3.180966962	0.001467844	0.011404254
TLR10	100.7586675	-0.842050278	0.264776082	-3.18023543	0.001471554	0.011428267
SERPIN B7	10.28241549	2.838273294	0.892634234	3.179659916	0.00147448	0.011446162
HESX1	64.68170156	-0.617064245	0.194081729	-3.179404094	0.001475782	0.011447992
CAMLG	2204.895977	0.277446213	0.087264538	3.179369537	0.001475958	0.011447992
CDC42BPA	4211.825174	-0.584867544	0.184002681	-3.178581639	0.001479975	0.011474323
CAPN S1	1426.885062	-0.289748189	0.091194288	-3.177262486	0.001486724	0.011518685
	19488.91126	0.492191354	0.154918576	3.177097071	0.001487572	0.011518685
SSB	3699.566403	0.237169616	0.074647396	3.177198775	0.001487051	0.011518685
AN KRD36B	594.4518718	-0.557009103	0.175361099	-3.176355003	0.001491383	0.011543344
NCF4	107.0245624	0.588020567	0.185153435	3.175855563	0.001493953	0.011558381
	1484.72845	0.881088899	0.277452522	3.175638456	0.001495072	0.01156218
ZNF394	798.6254224	0.351844292	0.110805024	3.175346028	0.001496579	0.011568984
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AN KRD53	104.0027962	0.924998639	0.291373338	3.174616609	0.001500346	0.01158838
MBP	996824.2098	-1.07427992	0.338459746	-3.174025664	0.001503404	0.011607135
RYR1	1418.693355	-0.74140552	0.233652602	-3.173110478	0.001508151	0.011638911
MRPL57	2284.584928	0.339257666	0.106922574	3.172928355	0.001509098	0.011641339
PIMB	4047.251118	0.493507708	0.155569944	3.172256116	0.001512595	0.01166344
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FBP1	775.571609	0.851221086	0.268486905	3.170438004	0.001522093	0.011726862
COQ8A	2895.560985	0.328611859	0.103673781	3.169671803	0.001526112	0.011752912
RN F146	2295.729345 1427.259857	-0.295191433 0.427768733	0.093142976 0.134986485	-3.169229143 3.168974524	0.001528438	0.011752912 0.011765911 0.011771307
RPU SD1 VPS8	2419.502965	-0.378430465	0.119438314	-3.168417686	0.001529778 0.001532711	0.011788956
MSH5	462.7834052	-0.466494278	0.147262938	-3.167764298	0.00153616	0.011806409
XAF1	2273.544916	-0.534348491	0.168685907	-3.167712709	0.001536433	0.011806409
CISD3	1532.380157	0.522923458	0.165083825	3.167623827	0.001536902	0.011806409
AC010422.3	591.5003064	1.188682563	0.375285908	3.167405272	0.001538058	0.011810364
RUNDC1	1020.866185	0.31265918	0.09874017	3.16648411	0.001542938	0.011837968
C19orf12	1678.977553	0.290846058	0.09184931	3.1665568	0.001542552	0.011837968
PRTFDC1	1499.147501	-0.527356247	0.166653462	-3.164388196	0.001554094	0.011918598
FAM181A	1089.937556	0.697158139	0.220356888	3.163768302	0.001557407	0.011939043
SLC35A3	816.6522449	-0.393344363	0.124367104	-3.162768537	0.001562765	0.011975136
ERP27	36.91700078	-0.781116699	0.24699119	-3.162528587	0.001564054	0.011980028
ADK	760.1182359	-0.505003956	0.159698189	-3.162239716	0.001565606	0.011986937
BCLAF3	618.2006781	-0.310348635	0.098164863	-3.161504275	0.001569565	0.012012258
ZBED3	2342.453371	-0.43153256	0.136538549	-3.160518138	0.001574888	0.012047991
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POLR3H	3477.900904	0.30159673	0.095448349	3.159789914	0.001578829	0.012068124
TFCP2	1841.734636	-0.236787937	0.074945556	-3.159465994	0.001580585	0.012076538
PG AP2	986.7909444	-0.285760009	0.090472206	-3.158539212	0.00158562	0.012102148
RN F144A	2902.906513	-0.644654275	0.204100612	-3.158512209	0.001585767	0.012102148
C1orf226 TBC1D12	2902.906513 471.6495314 2489.54454	-0.888732518 -0.790010323	0.204100612 0.281418825 0.25015908	-3.158512209 -3.158042168 -3.158031777	0.001585767 0.001588326 0.001588382	0.012102148 0.012102148 0.012102148
KDM6A	955.2112368	-0.645547913	0.204439354	-3.157649934	0.001590464	0.012102148
APLP2 PHLDA3	21067.06696 9244.346802	0.428030863 0.67797715	0.135559096	3.157522263 3.157556094	0.001591161 0.001590976	0.012102148 0.012102148
W DR89	439.7601647	0.216946548	0.068700224	3.15787248	0.001589251	0.012102148
ACADVL	19295.90746	0.441727605	0.13988092	3.157883189	0.001589192	0.012102148
SCAMP3	4036.905327	0.454676918	0.143980171	3.157913444	0.001589027	0.012102148
MRPS15	2286.045129	0.398315154	0.126131928	3.157924887	0.001588965	0.012102148
C12orf76	2761.11767	-0.491150804	0.155608599	-3.156321745	0.001597725	0.012147061
GOLGA1	1581.03259	-0.210689244	0.066764764	-3.155695165	0.001601161	0.012164386
BTNL8	17.85634763	1.215999209	0.38533844	3.15566547	0.001601324	0.012164386
WDR20	1083.112273	-0.299375108	0.09488143	-3.15525503	0.001603579	0.012176494
RPA4	4.839149587	1.772400036	0.561832092	3.154679236	0.001606747	0.012190503
SIRT7	1386.936332	0.372589483	0.118104397	3.154746931	0.001606374	0.012190503
CLMN	3678.374528	-0.659329144	0.209014033	-3.154473101	0.001607882	0.012194098
TAS2R14	103.469154	-0.783322829	0.248351306	-3.154091848	0.001609984	0.012201182
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CEN PC	703.08458	-0.418955012	0.132841492	-3.153796351	0.001611615	0.012201182
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PSMD12	1997.982529	0.249324023	0.079060532	3.15358393	0.001612788	0.012201182

SHBD21	919.5192773	0.726682773	0.2304093	3.153877786	0.001611165	0.012201182
PG PEP1	3382.305817	0.370779037	0.117600999	3.152856172	0.001616814	0.01222662
N ROB1 C4orf33	45.50259112 686.2669466	1.083470835 -0.338040422	0.343742309 0.107266703	3.151985674 -3.151401255	0.001621642 0.001624891	0.012258099 0.012272588
TMEM199	1479.249868	0.25176232	0.079886735	3.151490917	0.001624392	0.012272588
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PCYT1A	3553.956221	0.227873836	0.072330515	3.150452284	0.001630179	0.012292375
NUDT16 NDUFB11	5519.381146 4362.90193	-0.34579642 0.526239906	0.109765126 0.167093343	-3.150330453 3.149376842	0.001630859 0.001636191	0.012292473 0.012317547
CHCHD1	1089.110721	0.423966427	0.134616648	3.149435323	0.001635863	0.012317547
PQBP1 NCOR2	3291.555525 10700.60497	0.500791402 -0.286374328	0.159002871 0.090941899	3.149574579 -3.148981174	0.001635084 0.001638407	0.012317547 0.0123292
CXCL9	116.3334044	-1.143668604	0.363280832	-3.148166665	0.00164298	0.012358562
NFAM1	1169.67933	0.754553522	0.239703739	3.147858793	0.001644711	0.012366537
S100A14 ACOT2	44.42265163 1476.962317	0.989658813 0.387043711	0.314417658 0.122963215	3.147592977 3.147638201	0.001646207 0.001645953	0.012367695 0.012367695
EIF3K	8052.396155	0.519630252	0.165104796	3.147275342	0.001647997	0.012376094
BHLHE40 RG S2	4089.582 2318.072942	0.575124212 0.820007034	0.182775927 0.260666088	3.146608093 3.145814024	0.001651762 0.001656253	0.012399316 0.012427966
ACY3	109.2840044	-1.108338096	0.352356412	-3.145502846	0.001658016	0.012427966
ZSW IM1	405.0386819	0.307597291	0.097799856	3.145171217	0.001659897	0.012435054
SSU 72 COL 17A1	5487.289424 80.58245368	0.352556333 1.016168157	0.112091058 0.323068817	3.145267251 3.145361312	0.001659352 0.001658818	0.012435054 0.012435054
SNX31	46.38485854	-1.278055264	0.40650857	-3.143981103	0.001666662	0.012475668
TO MM22 G DPG P1	3209.165059 279.2221639	0.35834903 0.31549946	0.113983755 0.10035285	3.143860536 3.143901362	0.001667349 0.001667116	0.012475668 0.012475668
DNAL4	776.8939234	0.369231293	0.117450106	3.143728903	0.001668099	0.012476016
G RK6	1467.890153	0.373128501	0.118744748	3.142273723	0.001676412	0.012533308
MLLT10 KIF13B	938.535722 5840.970144	-0.443811023 -0.59502988	0.141255763 0.189474109	-3.141896754 -3.140428438	0.001678572 0.001687009	0.012544366 0.012602307
RRAG C	2400.85958	0.354596121	0.11292301	3.140158251	0.001688566	0.012608826
MARVELD2 ADPRHL2	155.8730842 2216.494315	0.626072794 0.383187415	0.1993858 0.12204923	3.140006929 3.139613542	0.001689438 0.001691708	0.012610231 0.012622063
ATP6AP1L	2216.494315 330.0124332	0.383187415 -0.404963641	0.12204923 0.129002865	3.139613542 -3.139183303	0.001691708 0.001694194	0.012622063 0.012630929
CADM1	5144.823235	-0.409569966	0.130470756	-3.139170642	0.001694268	0.012630929
LG MN FAM110D	10233.08927 180.0059502	0.880928678 0.845232546	0.280663474 0.269286099	3.138736455 3.138790112	0.00169678 0.001696469	0.012639432 0.012639432
RNF215	1135.803862	0.354261191	0.112891379	3.138071241	0.001700635	0.012663034
F12	221.876038	0.932805649	0.297296875 0.123198669	3.137623455	0.001703235	0.012677271
SLC35E1 MRPL21	2180.486094 1401.115476	0.386531649 0.398953063	0.123198669 0.127171136	3.137466098 3.137135334	0.00170415 0.001706074	0.012678957 0.012688148
LRRC47	3494.390421	0.309048302	0.098518064	3.136970915	0.001707031	0.012690144
CACN A2D4 MXD1	379.698103 974.5949806	0.7660442 0.470805462	0.244215424 0.150126616	3.136756016 3.13605591	0.001708282 0.001712366	0.012694328 0.012719542
CHMP4B	8263.906795	0.339146914	0.108172413	3.135244037	0.001717112	0.012744526
VSIG 10L	270.4790526	0.430940947	0.137447828	3.13530562	0.001716752	0.012744526
MSRB1 SERPIN B6	1481.725079 10632.79924	0.412791258 0.56695711	0.131669756 0.180914678	3.135049919 3.133836984	0.001718249 0.001725367	0.012747828 0.012795487
MFSD10	3581.331518	0.397962963	0.127001595	3.133527278	0.001727189	0.012803845
TTI2 PITHD1	431.0356168 4939.460775	0.315658459 0.32525634	0.100756893 0.103839108	3.132872114 3.132310616	0.001731048 0.001734363	0.012827299 0.012846693
MYSM1	1531.113966	-0.609617241	0.194674088	-3.131476036	0.0017393	0.012878086
W DR55	1791.89782	0.229657769	0.073342568	3.13130253	0.001740328	0.012880523
NUB1 APOL2	3219.00594 5166.037402	0.264191025 0.608458887	0.084385107 0.194341473	3.130777884 3.130875144	0.00174344 0.001742862	0.012888026 0.012888026
IOSD2						
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			0.00000000			
ZNF682 AL358113.1 PPIB FUT8	305.7336144 689.6026845 15676.25529 3065.559001	-0.416499735 -0.635148199 0.607656241 -0.652220257	0.133043869 0.202948045 0.194195931 0.208482449	-3.130544358 -3.12960984 3.129088425 -3.128418055	0.001744826 0.001750386 0.001753495 0.0017575	0.012893106 0.012929005 0.012946781 0.012971153
ZNF682 AL358113.1 PPIB	305.7336144 689.6026845 15676.25529	-0.416499735 -0.635148199 0.607656241	0.133043869 0.202948045 0.194195931	-3.130544358 -3.12960984 3.129088425	0.001744826 0.001750386 0.001753495	0.012893106 0.012929005 0.012946781
ZNF682 AL358113.1 PPIB FUT8 KLH-21 SWI5 SWT1	305.7336144 689.6026845 15676.25529 3065.559001 3395.46406 1162.108967 276.9821926	-0.416499735 -0.635148199 -0.607656241 -0.65222025 -0.427767185 -0.555583366 -0.393364862	0.133043869 0.202948045 0.194195931 0.208482449 0.136770333 0.177667901 0.125803957	-3.130544358 -3.12960984 -3.129689425 -3.128418055 -3.127631373 -3.127089148 -3.126808332	0.001744826 0.001750386 0.001753495 0.0017575 0.00176521 0.001765264	0.012893106 0.012929005 0.012946781 0.01390771153 0.013007711 0.01301501
ZNF682 AL358113.1 PPIB FUT8 KLHL21 SWI5 SWI5	305.7336144 689.6026845 15676.25529 3065.559001 3995.446406 1162.108987 276.9821926	-0.416499735 -0.635148199 0.607556241 -0.652220257 0.427767185 0.555583365 -0.33934862	0.133043869 0.202948045 0.194195931 0.208482449 0.136770333 0.177667901 0.125803957	-3.13054358 -3.12969845 -3.12969845 -3.12841805 -3.127631373 -3.1276808332 -3.12660633	0.00174826 0.001750386 0.001753495 0.0017575 0.00176221 0.00176546 0.001767151	0.012893106 0.012929005 0.012946781 0.012971153 0.01300711 0.01302673 0.01302673
ZNF682 AL358113.1 PPIB FUT8 KLH-21 SWI5 SWT1	305.7336144 689.6026845 15676.25529 3065.55901 3995.446406 1162.108967 276.9821926 7582.945586 1067.500495 2023.102154	-0.416499735 -0.635148199 -0.607556241 -0.652220257 -0.427767185 -0.555583366 -0.393364862 -0.50326969 -0.425877752 -0.216923723	0.133043869 0.202948045 0.194199931 0.208482449 0.136770333 0.177667901 0.125803957 0.16136225691 0.069387942	-3.130544358 -3.12960984 -3.129608845 -3.12841805 -3.127631373 -3.1276808332 -3.1266563 -3.12625637 -3.12625637	0.00174826 0.001753386 0.001753495 0.0017521 0.00176221 0.00176464 0.001768009 0.001770538	0.012893106 0.012929005 0.012946781 0.013946781 0.013000711 0.01300673 0.01302673 0.01302673 0.01336057
2NF682 AL 35813.1 PPRB FUTB KLH.21 SW/S SW/T1 ATP690E1 FKTN CORPT	305,7386144 689,6205835; 15676,25529 3065,559001 3995,446405 1162,10807 276,9211926 7582,945586 1067,500499 2023,102154 4136,135067	-0.416499733 -0.635148199 -0.655220217 -0.655220217 -0.427767185 -0.555326969 -0.3593364862 -0.256326969 -0.425897732 -0.216923723 -0.238746244	0.13304866 0.202948052 0.194195931 0.203482430 0.136770333 0.177673337 0.15873957 0.161938317 0.136273951 0.095575982	-110544358 -3.129698425 -3.12968425 -3.128418055 -3.127691373 -3.127695183 -3.12666653 -3.12666563 -3.12764504 -3.12764504	0.00174826 0.00173088 0.001753085 0.00175375 0.00176221 0.00176640 0.001767151 0.001768008 0.00177638 0.00177638	0.012893106 0.012893005 0.012945781 0.012971153 0.01300771 0.01301277 0.013027843 0.013027843 0.013036575 0.013055791
ZNF682 AJ358113.1 PPIB FUT8 KLH.21 SWIS SWT1 ATRONOE1 FKTN DENR	305.7336144 689.6026845 15676.25529 3065.55901 3995.446406 1162.108967 276.9821926 7582.945586 1067.500495 2023.102154	-0.416499735 -0.635148199 -0.607556241 -0.652220257 -0.427767185 -0.555583366 -0.393364862 -0.50326969 -0.425877752 -0.216923723	0.133043869 0.202948045 0.194199931 0.208482449 0.136770333 0.177667901 0.125803957 0.16136225691 0.069387942	-3.130544358 -3.12960984 -3.129608845 -3.12841805 -3.127631373 -3.1276808332 -3.1266563 -3.12625637 -3.12625637	0.00174826 0.001753386 0.001753495 0.0017521 0.00176221 0.00176464 0.001768009 0.001770538	0.012893106 0.012929005 0.012946781 0.013907115 0.01300711 0.01302673 0.013027843 0.013036057 0.013036057
2NF682 AL 35813.1 PRB FUTS FUTS SWG SWT1 ATPOMC1 FATN DENR CORPT KEAP1 COCCASE2	305.7386144 688.0078845, 15676.25529 3005.559001 3995.446400 1162.108967 276.9811902 7882.945586 1067.500495 2023.102125 4318.115067 4828.29415 3177.4966.555107	-0.416499735 -0.615168199 -0.607656241 -0.632720277 -0.427767165 -0.532720277 -0.427767165 -0.533506462 -0.535563366 -0.333364862 -0.503266969 -0.425877752 -0.216932733 -0.239860234 -0.2393061232 -0.42480940 -0.486151645	0.133043869 0.20248053 0.104199931 0.208482449 0.116770133 0.177667901 0.125803857 0.161938317 0.16225691 0.069337942 0.0995579582 0.094063145 0.11552575316	-110544358 -3.12060384 -3.12060384 -3.12068425 -3.126418055 -3.1266031 -3.126	0.001748726 0.001750385 0.001753495 0.0017575 0.00176752 0.00176526 0.00177613 0.001776413 0.001776413 0.001777225 0.001777225 0.001778275	0.012893106 0.012893006 0.012894781 0.0129013071 0.0130013071 0.0130015071 0.013007843 0.013006077 0.01306077 0.013078441 0.013078444
2NF682 2AL35813.1 PPBB FUTB KULL21 SWIS SWIS SWIT1 ATP600E1 FERTN DENR CDPT KULP21 CDCA25E2	305,7386146 688,0028845 15576,25226 3065,559001 3995,446400 1162,108967 276,9821926 7582,945586 1067,500895 2023,102154 4138,135067 4828,29415 3177,479613	-0.416499735 -0.635148399 -0.657656241 -0.652220257 -0.427767388 -0.555583565 -0.393364862 -0.506326999 -0.425877752 -0.216923773 -0.289746244 -0.299960182 -0.424460549	0.133043869 0.20348054 0.194199931 0.208482449 0.136770333 0.177667901 0.125803557 0.161938317 0.136225691 0.069387342 0.0955763145 0.135815638 0.155576315	-3.1054458 -3.129698425 -3.129698425 -3.128418055 -3.12763137 -3.12769188 -3.1266633 -3.12656037 -3.1264524 -3.12746005 -3.1274524 -3.12746005 -3.1274605 -3.1274605 -3.1274605	0.00174826 0.001753489 0.001753499 0.0017573 0.0017573 0.00176546 0.00177613 0.00177613 0.00177613 0.00177613 0.00177638 0.00177763 0.00177763 0.00177763 0.001777725 0.001778629	0.012893106 0.012893006 0.012945781 0.012945781 0.0139071153 0.01300731 0.01300731 0.01302673 0.013036057 0.013036057 0.013036057 0.013074841 0.013074841
2NF682 AL35813.1 PPRB FUTB KUF4.21 SWIS SWIT ATPONDE1 FEON DENR COLPT SEAP1 COCCASE2 TOR ZNF37A WS37A	305.7386144 688.6078845 15576.25529 3005.559001 3995.46607 1162.108967 276.98211926 7582.945586 1667.500495 2023.102154 4318.135067 4382.29415 3377.4959513 3477.4959517 1382.199105 7319.233477 13369.34165	-0.416499735 -0.635168199 -0.607695241 -0.652202377 -0.42767185 -0.525583366 -0.333348602 -0.505528366 -0.42587752 -0.216932732 -0.216932732 -0.239890182 -0.424480930 -0.486151645 -0.3307358377 -0.45501741	0.133043869 0.20248052 0.104199931 0.208482482 0.13677033 0.177667901 0.115893877 0.101938117 0.136225691 0.009387842 0.0095575982 0.0040651455 0.1358565383 0.155575319 0.102661051	-110544358 -3.1266938 -3.1266938 -3.1264355 -3.12769318 -3.1266932 -3.1266952	0.001748726 0.00176389 0.001753499 0.00176529 0.00176521 0.001765264 0.00177613 0.00177613 0.00177613 0.001777613 0.00177847 0.00177887 0.00177887 0.00177887 0.00177887 0.00177887 0.00177887	0.012893106 0.012893006 0.0128940781 0.012891031 0.012891133 0.0138071133 0.013007803 0.013007803 0.013007803 0.013007804 0.013007804 0.013007804 0.013007804 0.013007804 0.013007804 0.01307804
2NF682 AL 35813.1. PPB FUTB KLIE 22 SWIS SWIS SWITI ATPENDE ET THE CUPT CUPT CUPT CUPT CUPT CUPT CUPT CUPT	305.7386146 688.6008845 155/6.75529 3065.559001 3999.446606 1161.108867 276.9811926 7562.945506 4162.108167 4163.13041 417.479613 3177.479613 9466.6519105 731.233477 11369.54563 6720.537886	-0.416499735 -0.635148199 -0.697656241 -0.653220257 -0.427767188 -0.59320616 -0.393364862 -0.506326969 -0.415897732 -0.216922773 -0.238766244 -0.239306182 -0.424480949 -0.486151645 -0.32073637	0.133043869 0.202948054 0.194159331 0.208482449 0.135703333 0.177667901 0.125803557 0.161938317) 0.16275891 0.069387942 0.0959579982 0.094063145 0.135836583 0.1355757310 0.102661051 0.144118753	-11054458 -3.1296984 -3.12969845 -3.12841805 -3.12761373 -3.12769148 -3.1266933 -3.1265533 -3.12654524 -3.12763137 -3.12763031 -3.1264524 -3.12763031 -3.1264524 -3.12763031 -3.1265331	0.00174826 0.001753489 0.001753499 0.00175359 0.00175739 0.00175750 0.001767540 0.001767540 0.001776413 0.001776413 0.001776413 0.001776413 0.001776413 0.001776413 0.001776413	0.1128/3106 0.1128/3106 0.1128/3070 0.012945/781 0.012971153 0.01300711 0.01300573 0.01300573 0.01305754 0.01305754 0.01307554 0.01307554 0.01307554 0.013156051 0.013156051 0.013156051
2NF682 AL35813.1 PPRB FUTB KUF4.21 SWIS SWIT ATPONDE1 FEON DENR COLPT SEAP1 COCCASE2 TOR ZNF37A WS37A	305.7386144 688.6078845 15576.25529 3005.559001 3995.46607 1162.108967 276.98211926 7582.945586 1667.500495 2023.102154 4318.135067 4382.29415 3377.4959513 3477.4959517 1382.199105 7319.233477 13369.34165	-0.416499735 -0.635148139 -0.607656241 -0.65220257 -0.47776718 -0.55328669 -0.4359354862 -0.505328669 -0.425877732 -0.2897860142 -0.2897860142 -0.4344680248 -0.436151645 -0.330735637 -0.45015741 -0.723069320 -0.335784520	0.133043869 0.20348054 0.194199331 0.208482449 0.136770333 0.177667901 0.125809577 0.161938317) 0.136275691 0.096337842 0.09657842 0.09657643 0.135816683 0.1555761 0.144118753 0.2114077897	-110544358 -3.12969842 -3.129698425 -3.12841805 -3.12763137 -3.12660337 -3.12660337 -3.12660337 -3.1266033 -3.1266033 -3.1266033 -3.126603 -3.12513664 -3.1269335 -3.1269335 -3.1269335 -3.1269335 -3.12693567 -3.1269357 -3.126937	0.001748726 0.00176389 0.001753499 0.00176529 0.00176521 0.001765264 0.00177613 0.00177613 0.00177613 0.001777613 0.00177847 0.00177887 0.00177887 0.00177887 0.00177887 0.00177887 0.00177887	0.012893106 0.012893006 0.0128940781 0.012891031 0.012891133 0.0138071133 0.013007803 0.013007803 0.013007803 0.013007804 0.013007804 0.013007804 0.013007804 0.013007804 0.013007804 0.01307804
2NF682 AL 35813.1.3 PPBB FUTB KNLE 22 SWIS SWIS SWITI ATPENDE CIDPT KRAP1 CICATS CICAT	305.7386146 688.0008845 15676.25528 3065.559001 33995.464606 1161.108967 276.9821926 7582.945508 1207.5500499 2023.102156 4363.13941 33177.479633 3476.9821976 7319.2334777 11369.54363 6770.557868 1347.258363 950.2563776 3151.816428	-0.416499735 -0.635148139 -0.607656241 -0.65220257 -0.47776718 -0.55328669 -0.43933648C2 -0.56328669 -0.42597732 -0.2897865182 -0.4244607949 -0.430735637 -0.43075741 -0.732096559 -0.439745289 -0.439745289	0.133043869 0.20348054 0.194199331 0.208482449 0.136770333 0.177667901 0.125809557 0.161938317 0.136225691 0.096337842 0.096537842 0.096537862 0.09653	-110544358 -3.12969842 -3.12969842 -3.12841805 -3.12763137 -3.12763137 -3.12666337 -3.12665337 -3.12665337 -3.12665337 -3.1265536 -3.12763137 -3.12763137 -3.12763137 -3.12765166 -3.12765616 -3.12765616 -3.12765616 -3.12765616 -3.12765616	0.00174826 0.001753495 0.001753495 0.00175359 0.0017575 0.001767515 0.001767515 0.001767151 0.00177638 0.00177638 0.00177638 0.00177638 0.00177638 0.00177638 0.00177638 0.00177638 0.00177638 0.00177638 0.00177638 0.00177638 0.00177638 0.00177638 0.00177638 0.00178615	0.1128/005 0.012893106 0.012945781 0.012945781 0.012971153 0.013007951 0.01302673 0.013036057 0.013036657 0.013075484 0.013075484 0.013075484 0.013075484 0.013075484 0.013075484 0.013075484 0.013075484 0.013075484 0.013075484 0.013075484 0.013075484 0.013075484 0.013075484 0.013154019
2NF682 AL358131.3 PPBB FUTB KUR.21 SWIS SWIT AFF6WCE COPT KLAP1 CCCA2552 TRR 2NF37A VIS28 FFHOI FAMCISA CUP192 LLACTB	305.7386144 688.6026845 15676.25529 3005.559001 3995.46600 116.2.168967 276.9821926 1758.2945586 1007.505069 2023.102154 4138.135067 4828.29415 3177.479613 3177.479613 3167.455366 1282.19415 3177.479613	-0.416499735 -0.63516439 -0.607656241 -0.652202757 -0.427767185 -0.555533366 -0.3393464827 -0.505329999 -0.425597752 -0.216923723 -0.289760244 -0.289960182 -0.424609036 -0.48151665 -0.330755637 -0.45307494 -0.239660182 -0.33075637 -0.45057441 -0.73046992 -0.3379425418 -0.756839399	0.133043869 0.20248052 0.104159531 0.20848246 0.13670233 0.177667901 0.125803877 0.161938317 0.136225691 0.0093257342 0.0095575982 0.0094051455 0.1358255931 0.102661051 0.144118733 0.215160733 0.114627877 0.159319112 0.1848582581	-110544358 -3.1266458 -3.1266563 -3.12761875 -3.12769148 -3.1266663 -3.1266663 -3.1266663 -3.1266663 -3.1266663 -3.1266663 -3.12763688 -3.12763688 -3.12763688 -3.12763688 -3.12763688 -3.12763688 -3.12763688 -3.12763688	0.0017487.6 0.00170398 0.00175398 0.00175398 0.00176321 0.00176321 0.00176526 0.00177613 0.001776433 0.00177643 0.00177847 0.00177847 0.00177847 0.00177847 0.00177847 0.00177847	0.112693106 0.012693106 0.012697315 0.012697315 0.01307153 0.01307153 0.01307163 0.01307163 0.01307163 0.013071643 0.013071643 0.013071643 0.013071643 0.013071643 0.013071643 0.013071643 0.013071643 0.013071644 0.013071644 0.013071644 0.013071644 0.013071644 0.013071644 0.013071644 0.013071644 0.013071644 0.013071644
ZNF682 ZNF682 AL 35913.1 PPRB FUTS GUH-21 SWIS SWIS SWIT1 ATPROVED FATN DENR COPPT KEAP1 COPT KEAP1 ZNF37A VF528 EFHOI FFMO19A COPPS EFHOI FMO19A COPPS LACTB CONSM LACTB CONS	305.7385144 688.0078635, 15676.25529 3005.559001 3995.446405, 1162.108967 276.9821936, 1067.500498, 1067.500498, 1067.500498, 1067.500498, 1073.1074.749613 3177.479613 3174.749613 3174.749613 3174.749613 3174.749613 3174.749613 3174.749613 3174.749613 3174.749613	0.416499735 0.635164199 0.607656241 0.6532202757 0.427767185 0.555583166 0.393364862 0.505326969 0.425827727 0.288766244 0.239361826 0.486151645 0.3107536277 0.45015741 0.73206599 0.73206599 0.73206599 0.73206599	0.135043869 0.20248052; 0.194159531 0.208482249 0.116770132 0.177667901 0.13583957; 0.1933871 0.1923871 0.1923871 0.095575982 0.094051345 0.195575982 0.094051345 0.195575982 0.105661051 0.14118733 0.114627897 0.19319112 0.184858561 0.193451971 0.193451971 0.193457871 0.	-110544358 -1.12605825 -1.1261373 -1.12618055 -1.1261173 -1.12618055 -1.12618055 -1.12618055 -1.126808312 -1.126808313 -1.12680531 -1.12680531 -1.12680531 -1.12680531 -1.12680531 -1.12680531 -1.12680535 -1.12838467 -1.12838461 -1.12838561 -1.12838561 -1.1283861 -1.1283861 -1.1283861 -1.1283861 -1.1283861 -1.1283861 -1.1283861 -1.1283861 -1.1283861 -1.1383861	0.001748726 0.0017488726 0.001753495 0.001753495 0.001753495 0.001753495 0.001765261 0.001765261 0.0017765406 0.0017765406 0.0017776540 0.0017776540 0.0017776540 0.0017776540 0.001776540 0.001776540 0.001776540 0.001776540 0.001776540 0.001776540 0.001776540 0.001776540 0.001776540 0.001776540 0.001776540 0.001776540 0.001776540 0.001776540 0.001776540 0.001776400 0.001776400 0.001776400 0.001776400 0.001776400	0.012893106 0.012896781 0.012896781 0.012896781 0.01396781 0.013079510 0.01307814 0.013078451 0.013078451 0.01307851 0.013078451 0.013078515 0.013078515 0.013078515 0.013078515 0.013078515 0.013078545 0.013078545 0.013078545 0.013078545 0.013078545 0.013078545 0.013078545 0.013078545 0.013078545 0.013134019 0.013134019 0.013134019 0.013134019 0.013134019 0.013134019 0.013134019 0.013134019
2NF682 AL358131.3 PPBB FUTB KUR.21 SWIS SWIT ATP600C1 FETN DENR COPT KEAP1 CCCASS22 TUR 2NF37A VIS-28 EFHOL FAMCISA CUP192 LACTB LACTB LACTB LACTB LACTB TORGG COSSM AVIL	305.7386144 688.6026845 15676.2529 3065.559001 3995.464606 1161.08867 7582.945586 1067.500469 2023.102154 4138.135067 4828.29415 3177.479631 3167.45065 1282.199105 7319.233477 11369.34536 677.537388 1347.258336 9595.2536374 3151.816428 344.5570468 865.7670593	-0.416499735 -0.635164199 -0.607656241 -0.655220257 -0.42776718 -0.555533366 -0.339345625 -0.505329999 -0.425577752 -0.215923723 -0.299760182 -0.424609309 -0.4345677752 -0.239960182 -0.424609309 -0.4356151645 -0.32073667 -0.435764329 -0.337943509 -0.4576639399 -0.732066952 -0.379425418 -0.575639399 -0.732066952 -0.379425418 -0.575639399 -0.732066952 -0.30551637	0.133043869 0.202948024 0.130748029 0.194199931 0.208482469 0.116770333 0.177667901 0.125803877 0.161938317 0.136225691 0.099631455 0.099631455 0.135825693 0.10561051 0.144118733 0.131540733 0.131540733 0.131540733 0.134628251 0.134628251	-110544358 -3.12605842 -3.12605842 -3.1260582 -3.12769138 -3.12641805 -3.12769138 -3.12665633 -3.12665633 -3.136265243 -3.12665633 -3.12635263 -3.12635263 -3.12769188	0.0017487.6 0.00176398 0.00176398 0.00176398 0.00176321 0.00176526 0.00176521 0.00176526 0.001776413 0.001776413 0.00177847 0.00177847 0.00177847 0.00177847 0.00177847 0.00177847 0.00177847 0.00178909	0.012893106 0.012893006 0.0128945781 0.0128971153 0.013007514 0.013007514 0.013007507 0.013007507 0.013007607 0.013007607 0.013007607 0.013007607 0.01307607 0.01307607 0.01307607 0.01307607 0.01307607 0.01307607 0.01307607 0.01307607 0.01307607 0.01307607 0.01307607 0.01307607 0.01307607 0.01307607 0.013154090
2NF682 2NF682 AL 35813.1 PPB FUTS GUEL21 SWIS SWIS SWIT1 ATPOMET FATN DENR COPP TEAR TATA WESS TORK TATA TORK TAM TORK TAM TORK TAM TORK TAM TORK TORK TORK TORK TORK TORK TORK TORK	305.7385144 688.0078835 15676.25529 3005.559001 3995.446405 1161.08807 276.9812905 276.9812905 2023.10215 4136.135067 4828.29431 3177.479613 9469.655107 1282.199136 670.5378334 1347.37831 1347.37831 1	-0.416499735 -0.615168190 -0.607695241 -0.6532202757 -0.427767165 -0.555583366 -0.393304862] -0.505583366 -0.39304862] -0.216932773 -0.216932773 -0.21693273 -0.239950123 -0.239950123 -0.239756224 -0.239950123 -0.230753627 -0.457425418 -0.578939999 -0.2379565567 -0.303651637 -1.0181305499 -0.303651637 -1.0181305499 -0.303651637 -1.0181305499 -0.303651637 -1.0181305499 -0.303651637 -1.0181305499 -0.303651637 -1.0181305499 -0.303651637 -1.0181305499 -0.303651637 -1.0181305499 -0.303651637 -1.0181305499 -0.303651637	0.135043869 0.202480523 0.104199931 0.208482349 0.116770133 0.177667901 0.135803857 0.161938317 0.116225691 0.009337932 0.0094053143 0.115816582 0.1058575982 0.1058167833 0.115816582 0.1058167833 0.1162610513 0.104118733 0.1146278917 0.1368258510	-110544358 -1.12063624 -1.11993624 -1.11993624 -1.11993624 -1.11993624 -1.11993624 -1.11993624	0.001748726 0.001748726 0.001753495 0.001753495 0.001753495 0.001753495 0.001753495 0.001765264 0.001765264 0.001776131 0.001776131 0.001776131 0.001777827 0.001778272 0.001778272 0.001778272 0.001778272 0.001782072 0.001782035 0.001782035 0.001849531 0.001849531 0.001849531 0.001849531 0.001849531 0.001849531 0.001849531 0.0018413625 0.0018112625 0.0018112625	0.012993106 0.01299071 0.01299072 0.012971071 0.013071
2NF682 AL35813.1 PPBB FUTB KUR.21 SWIS SWIT ARPORET FERN DENR CDPT KURP1 CCC4252 TRR ZWISTA WISTA WIST	305.7386144 688.6026845 15676.2529 3065.559001 3995.464605 1161.08967 758.912952 758.945586 1667.500409 2023.102154 4136.135067 4828.29413 3317.4799633 39469.655107 1282.199105 73310.333476 1367.5536376 437.439633 348.565767593 348.72536374 3515.816428 344.570509 387.3992215 119.7997031	0.416499735 0.635168199 0.607695241 -0.653270275 0.427767185 0.555583366 -0.339354862 0.5055583366 -0.425877752 0.216932732 0.289746244 0.239960182 -0.4244609503 0.486151645 -0.1307353873 0.45015741 -0.773046992 0.357943590 0.772068599 0.772068599 0.772068599 0.7720685919	0.133043869 0.20248024 0.13670439531 0.20248024 0.13677033 0.177667901 0.15283927 0.15283927 0.069387942 0.095575982 0.094063145 0.135826533 0.135826533 0.135827333 0.14627333 0.14627373 0.138391912 0.184858261 0.234602322 0.0959555982	-110544358 -3.12605483 -3.126054358 -3.126054358 -3.12765137 -3.12769148 -3.12665637 -3.12665637 -3.12665637 -3.12656537 -3.12656537 -3.12656537 -3.12656537 -3.12765657 -3.12765657 -3.12765657 -3.12765657 -3.12765657 -3.12765657 -3.12765657 -3.12765657 -3.12765657 -3.12765657 -3.12765657 -3.12765657 -3.12765657 -3.12765657 -3.12765657 -3.12765657 -3.1276567 -3.1276567 -3.1276567 -3.127657 -3.12767 -3.127657 -3.12767 -3.12	0.001748726 0.00176398 0.001775399 0.00176321 0.001765264 0.00176751 0.001765264 0.001776413 0.001776413 0.001776413 0.00177643 0.00177643 0.00177643 0.00177847 0.00177847 0.00177847 0.00177847 0.00177847 0.001786999 0.001869999 0.001811529 0.00181525 0.00181525	0.012893106 0.012893006 0.0128940781 0.012891153 0.013071153 0.01307153 0.01307803
2NF682 2NF682 AL 35813.1 PPB FUTS GUEL21 SWIS SWIS SWIT1 ATPOMET FATN DENR COPP TEAR TATA WESS TORK TATA TORK TAM TORK TAM TORK TAM TORK TAM TORK TORK TORK TORK TORK TORK TORK TORK	305.7386144 688.6026845 15676.25529 3005.559001 3995.4667.63529 1162.108967 276.9812192 7582.9455865 1667.550026 2023.102154 4136.135067 4828.29415 3177.4796313 3174.479631 3174.479631 3174.79631 3174.797631 3182.194105 7319.23417 11389.34473 6770.537888 1347.7253348 1347.725334 1351.816428 344.570468 865.767059] 341.9390201 341.9390201 311.9797031 310.4170344 4444.192724	-0.416499735 -0.615168190 -0.607695241 -0.6532202757 -0.427767165 -0.555583366 -0.393304862] -0.505583366 -0.39304862] -0.216932773 -0.216932773 -0.21693273 -0.239950123 -0.239950123 -0.239756224 -0.239950123 -0.230753627 -0.457425418 -0.578939999 -0.2379565567 -0.303651637 -1.0181305499 -0.303651637 -1.0181305499 -0.303651637 -1.0181305499 -0.303651637 -1.0181305499 -0.303651637 -1.0181305499 -0.303651637 -1.0181305499 -0.303651637 -1.0181305499 -0.303651637 -1.0181305499 -0.303651637 -1.0181305499 -0.303651637	0.135043869 0.202480523 0.104199931 0.208482349 0.116770133 0.177667901 0.135803857 0.161938317 0.116225691 0.009337932 0.0094053143 0.115816582 0.1058575982 0.1058167833 0.115816582 0.1058167833 0.1162610513 0.104118733 0.1146278917 0.1368258510	-110544358 -3.1260563 -3.1260563 -3.12760373 -3.12760563 -3.12763173 -3.1266563 -3.1266563 -3.1266563 -3.1266563 -3.1266563 -3.1266563 -3.1266563 -3.1266563 -3.1266563 -3.1266563 -3.1266563 -3.1266563 -3.12766563 -3.117666563 -3.117666563 -3.117666563 -3.117766763	0.001748726 0.001748726 0.001753495 0.001753495 0.001753495 0.001753495 0.001753495 0.001765264 0.001765264 0.001776131 0.001776131 0.001776131 0.001777827 0.001778272 0.001778272 0.001778272 0.001778272 0.001782072 0.001782035 0.001782035 0.001849531 0.001849531 0.001849531 0.001849531 0.001849531 0.001849531 0.001849531 0.0018413625 0.0018112625 0.0018112625	0.012993106 0.01299071 0.01299072 0.012971071 0.013071
2NF682 AL358131.3 PBB FUTB FUTB KURL21 SWIS SWIT AFF600E1 FETN DENR CDPT KLAP1 CCA25E2 TIR 2NF37A VIS28 FFH01 FAM019A CUP12 LACTB TORG1 OXSM AML 2NF336 MKR911 ISSED AG06822.3 FF01 TAP1 TRP6	305.7386144 688.6026845 15676.25529 3005.559001 3995.464605 116.2168967 276.9821926 1758.2945586 1007.505069 2023.102154 4138.135067 4828.29415 3177.479613 3177.479613 3174.379613 31940.555107 11282.199105 7319.23453 6770.537886 1347.258316 6770.537886 1347.258316 9695.55107 131869.3493 1351.816462 344.557068 865.767093 241.990003 3873.992815 119.7997031 100.41197703	-0.416499735 -0.635168190 -0.607656241 -0.652202375 -0.652202375 -0.555583366 -0.339346825 -0.555583366 -0.425877752 -0.216923723 -0.289762346 -0.239860182 -0.4248609360 -0.48151665 -0.330755637 -0.45507476 -0.73036992 -0.337943509 -0.33794509 -	0.133043869 0.20248024 0.1367043869 0.20248024 0.13677033 0.17667901 0.125803877 0.16138317 0.13622591 0.09805145 0.09805145 0.09805145 0.135835638 0.1355575319 0.102661051 0.14612873 0.138356368 0.135626661 0.239976555 0.235626861 0.239976556	-110544358 -3.12664538 -3.1266563 -3.1276317 -3.12769148 -3.12665637 -3.12665637 -3.12665637 -3.12665637 -3.12656537 -3.1265637 -3.12666537 -3.12666537 -3.12666537 -3.12666637 -3.126667 -3.126667 -3.126667 -3.126667 -3.126667 -3.12667 -3.12667 -3.126667 -3.12667 -3.12667	0.0017487.6 0.00174887.6 0.00176398.6 0.00175398.7 0.00176328.7 0.00176321.7 0.00176526.6 0.0017671.7 0.00177643.7 0.00177643.7 0.00177847.7 0.00177847.7 0.00177847.7 0.00177847.7 0.00177847.7 0.00177847.7 0.0017847.7 0.0017847.7 0.0017847.7 0.0017847.7 0.001847.7 0.001847.7 0.001847.7 0.001848.7 0.001848.7 0.001848.7 0.001848.7 0.001848.7 0.001848.7 0.001848.7 0.001848.7 0.00184.7 0	0.012893106 0.012893006 0.012895781 0.012895781 0.012895781 0.013007810 0.013007810 0.013007810 0.013007810 0.013007810 0.013007810 0.013007810 0.013007810 0.013007810 0.013007810 0.0130078110 0.01330078110 0.01333000 0.01333300 0.01333300
2NF682 AL 35813.1 PPB FUTS GUL-21 SWG SWT1 ATPOMET FATN DENR COPT REAP1 COCC4522 TRR 2NF37A W528 EFF01 FAM019A CCFP12 LACTB LONSM ANL	305 7336144 688 50708352 15676-25529 3005 559001 3995-446400 1161 108967 276 9811902 7882 945588 1067 500405 202 101215 3177 479613 9466 655107 1282 199105 7319 213477 11369 54363 677 2373634 1347 238336 950 235374 3151 186726 344 185726 344 185726 345 5770903 2414 3970913 119 7997031 119 7997031 110 7997031 110 7997031 110 7997031 110 7997031 110 7997031 110 7997031	-0.416499735 -0.635168199 -0.607656241 -0.632202377 -0.427767165 -0.535568356 -0.333364862 -0.5035568366 -0.333364862 -0.5035682669 -0.42587752 -0.216932733 -0.399602123 -0.399602123 -0.330753637 -0.45015741 -0.723046902 -0.357943500 -0.457425418 -0.576939399 -0.722065652 -0.30365652 -0.30365652 -0.30365653 -0.30366553 -0.30366553 -0.30365653 -0.30366553 -0.30365653 -0.30366553 -0.30366553 -0.30366553 -0.30366553 -0.30366553 -0.30366553 -0.30366553 -0.30366553 -0.30366553 -0.30366553 -0.30366553 -0.30366553 -0.30366553 -0.30366553 -0.30366553	0.133043869 0.20248052 0.104199931 0.208482482 0.104770133 0.177667901 0.125803877 0.161938317 0.186225691 0.069387932 0.0994053145 0.135557531 0.105661051 0.14418753 0.21540733 0.135575319 0.105661051 0.14418753 0.21540733 0.135575319 0.105661051 0.14418753 0.21540733 0.135575319 0.105661051 0.23450736 0.1056561051 0.23450736 0.1056561051 0.23450736 0.1056561051 0.23450736 0.1056561051 0.235076564 0.171631399 0.2356412466 0.171631399 0.2356412466 0.171631399 0.2356412466 0.171631399 0.2356412466 0.171631399	-110544358 -1.1206032 -1.1206032 -1.1206032 -1.1206032 -1.1206032 -1.1206032 -1.1206032 -1.1206032 -1.1206033	0.001748726 0.0017488726 0.0017534895 0.001753495 0.001753495 0.001753495 0.001753495 0.00176526 0.00176526 0.001775413 0.001775413 0.001775413 0.001778475 0.001778475 0.001778475 0.001778475 0.001778475 0.0017878375 0.0017878375 0.0017878375 0.0017878375 0.0017878375 0.0017878375 0.0017878375 0.0017878375 0.001878375 0.001883535 0.0018182525 0.0018182525 0.0018252675 0.0018252675 0.0018252675 0.0018252675 0.0018252675 0.0018252675 0.0018252675 0.0018252675	0.01299306 0.0129907 0.0129907 0.01390791 0.01307907 0.0130791 0.0130607 0.01316037 0.0132606 0.01327606 0.01327606 0.01327606 0.01327606 0.01327606
2NF682 AL35813.1.3 PRB FUTB FUTB KULL21 SWIS SWIT ATP606C1 FCTN CENR COPT KEAP1 COCASS2 TER 2NF37A VPS28 EFHOL FAMCISA CCP192 LLCTB TORG1 OXSM AWL AWL AWREN EFHOL FAMCISA CUP192 LLCTB TORG1 OXSM AWL TORG2 TORG1	305.7386144 688.6026845 15676.25529 3065.559001 3995.464600 1161.08967 276.9821925 1067.500409 2023.102124 4136.115067 4828.29419 3127.479631 3127.479631 3127.479631 3127.479631 3127.479631 3147.479631 3159.53637 4828.29419 3159.53637 3151.836383 3672.53837 3151.836428 344.570463 385.7670503 387.992291 310.04.117044 444.192724 5068.44760 5	-0.416499735 -0.635164190 -0.607656241 -0.655220257 -0.42776152 -0.42767533166 -0.339346462 -0.505326900 -0.425877752 -0.216923723 -0.298762544 -0.239960182 -0.424609036 -0.4516451645 -0.320733677 -0.45257752 -0.252672 -0.2526	0.133043869 0.20248025 0.139043869 0.20248025 0.14199931 0.208482469 0.11677033 0.177667901 0.125803877 0.161938117 0.136272691 0.009463145 0.009463145 0.1383158633 0.135575319 0.100661051 0.14411873) 0.135140733 0.114627877 0.159319112 0.136858261 0.234602825 0.039978556 0.058661986 0.355928841 0.4077604466 0.171631399 0.2262427467 0.2171131399 0.2262427467 0.2171131399 0.2262427467 0.2171131299 0.2262427467 0.2171131299 0.2262427467 0.2171131299 0.2262427467 0.2171131299 0.22624741272 0.2171131299 0.22624741272	-110544358 -1312644358 -1312664358 -131264358 -131264358 -131264354 -13126456637 -13126456637 -13126456637 -13126456637 -13126456637 -13126456637 -13126456637 -13126456637 -13126456637 -13126456637 -1312656637 -131265638 -13126688 -13126688 -13126688 -13126688 -13126688 -13126888 -13126888 -13126888 -13126888 -131268888 -131268888 -131268888 -131268888 -1312688888 -1312688888 -1312688888 -1312688888888888888888888888888888888888	0.0017487.6 0.00174887.6 0.0017639.9 0.0017639.9 0.0017639.9 0.0017631.0 0.0017652.6 0.0017652.6 0.0017652.6 0.00177641.3 0.00177841.3 0.00177841.3 0.00177841.3 0.00177841.3 0.00177841.3 0.00177841.3 0.00177841.3 0.0017887.3 0.0017887.3 0.001887.3 0.0018883.3 0.00188262.7 0.00181262.3 0.00181262.3 0.0018262.3	0.012893106 0.012893006 0.0128940781 0.012971153 0.01300711 0.013007514 0.013007507 0.013007607 0.0133007 0.01333009 0.013333009 0.013333009 0.013333009 0.013333009 0.013333009 0.013333009 0.013333009
2NF682 AL 35813.1 PRB FUTB FUTB FUTB SWIF SWIF SWIF SWIF SWIF SWIF SWIF SWIF	305 7336144 688 50708352 15676 25529 3005 559001 3995 446405 1161 108907 276 9811905 7812 945588 1067 500405 7021 10215 1162 118907 4812 39415 1177 479613 9465 655107 1189 13407 11189 53468 6720 53783 950 2536174 11189 53468 865 7670503 387 3992 53134 119 79971034 4444 119727 5068 34705 5642 390138 100 1272 5568 34705 5642 390138 100 1272 5568 34705 5642 390138 100 1272 5568 34705 5642 390138 100 1272 5568 34705 5642 390138 100 1272 5568 34705 5642 390138 100 1272 5568 34705	-0.416499735 -0.635168199 -0.607656241 -0.652202757 -0.427767185 -0.535568356 -0.333346862 -0.506320666 -0.425877752 -0.216923723 -0.298961282 -0.234686919 -0.458151645 -0.3207536377 -0.4515741 -0.723046992 -0.337943500 -0.458151645 -0.3207536377 -0.5015741 -0.723046992 -0.337943500 -0.458151645 -0.3207536377 -0.5015741 -0.723046992 -0.337943500 -0.458151645 -0.3207536377 -0.5015741 -0.723046992 -0.337943500 -0.379425518 -0.37963503 -0.37963500 -0.3796500 -0.3796500 -0.3796500 -0.3796500 -0.3796500 -0.379600 -0.379600 -0.3796000 -0.3796000 -0.3796000 -0.3796000 -0.3796000 -0.37960000 -0.	0.133043869 0.20248025 0.104199931 0.20848248 0.13877033 0.17767901 0.125893877 0.161938317 0.136225691 0.0069387942 0.005575982 0.004061845 0.135255731 0.1052510	-110544358 -11266156 -11266157 -11266157 -11266157 -11266157 -11266157 -11266157 -11266157 -11266157 -11266157 -11266157 -1126617 -11266157	0.001748726 0.001748726 0.001753495 0.001753495 0.001753495 0.001753495 0.001753495 0.001765264 0.001765264 0.001775412 0.001776412 0.001776412 0.001778675 0.001778675 0.001778675 0.001778675 0.001778675 0.001787813 0.001787813 0.00178815 0.001878131 0.001881525 0.0018815275 0.001882595 0.001812625	0.012893106 0.01289071 0.01289071 0.0139071 0.013071051 0.013151001
2NF682 2NF682 AL 35813.1 PPBB FUTB CULT.1 SWIS SWIS SWIT1 ATPOMET FATN DENR COPT KEAP1 COCASE2 TRR 2NF37A WS28 EFF01 FAM019A CCF192 CLCTS CF7 CACP192 CLCTS CMSM ANL	305.7386144 688.6026845 15676.25529 3065.559001 3995.464600 1161.08967 276.9821925 1067.500409 2023.102124 4136.115067 4828.29419 3127.479631 3127.479631 3127.479631 3127.479631 3127.479631 3147.479631 3159.53637 4828.29419 3159.53637 3151.836383 3672.53837 3151.836428 344.570463 385.7670503 387.992291 310.04.117044 444.192724 5068.44760 5	-0.416499735 -0.615168190 -0.607695241 -0.6532202757 -0.427767165 -0.555583366 -0.393304862] -0.5055583366 -0.393904822 -0.216932773 -0.216932773 -0.216932773 -0.216932773 -0.216932773 -0.216932773 -0.21693273	0.135043869 0.202480234 0.1367043869 0.202480234 0.136770133 0.17767501 0.15193817 0.161938171 0.16225601 0.069387942 0.095575982 0.094051343 0.1555575982 0.094051343 0.1555575982 0.094051343 0.1555575982 0.094051343 0.1555575982 0.094051343 0.1555575982 0.094051343 0.1555575982 0.09527573 0.102661051 0.146187573 0.136257872 0.136257872 0.097327733 0.346620825 0.097327733 0.3466208565 0.0558691886 0.171631399 0.225842746 0.171631399 0.225842746 0.202274279 0.116115729 0.2656074791	-110544358 -1312644358 -1312664358 -131264358 -131264358 -131264354 -13126456637 -13126456637 -13126456637 -13126456637 -13126456637 -13126456637 -13126456637 -13126456637 -13126456637 -13126456637 -1312656637 -131265638 -13126688 -13126688 -13126688 -13126688 -13126688 -13126888 -13126888 -13126888 -13126888 -131268888 -131268888 -131268888 -131268888 -1312688888 -1312688888 -1312688888 -1312688888888888888888888888888888888888	0.0017487.6 0.00174887.6 0.0017639.9 0.0017639.9 0.0017639.9 0.0017631.0 0.0017652.6 0.0017652.6 0.0017652.6 0.00177641.3 0.00177841.3 0.00177841.3 0.00177841.3 0.00177841.3 0.00177841.3 0.00177841.3 0.00177841.3 0.0017887.3 0.0017887.3 0.001887.3 0.0018883.3 0.00188262.7 0.00181262.3 0.00181262.3 0.0018262.3	0.01299050 0.01299071 0.01299072 0.013071051 0.013007951 0.013007951 0.01306077 0.01306077 0.01306077 0.01306079 0.01307481 0.01307481 0.01307481 0.01307481 0.01307481 0.01307481 0.01307481 0.01307481 0.01307481 0.01307481 0.01307481 0.01307481 0.01307481 0.01307481 0.01307481 0.01307481 0.01307481 0.01307481 0.0131290 0.013290 0.0132748 0.0132748 0.0132748 0.0132748 0.0132748 0.0133748 0.0133748 0.01337484 0.0133748 0.0133748 0.0133748 0.0133748 0.0133748
2NF682 AL 35813.1 PPIB FUTB KULL21 SWIS SWIT1 ATPROCED FUTN COCATS2 FATN COCATS2 FATN COCATS2 FATN COCATS2 FATN FATN COCATS2 FATN FATN FATN FATN FATN FATN FATN FATN	305 7336144 688 05076352 15676 25529 3005 539001 3995 446400 1161 168967 276 9811902 7882 945586 1067 500495 202 102125 4136 115007 4828 29415 3177 4796 351190 9466 655107 1282 199100 7312 233477 11369 5483 6720 537683 950 2536374 3151 1867 5483 341 758338 950 1258 1377 1378 1378 1378 1378 1378 1378 137	-0.416499735 -0.615168529 -0.6557685241 -0.6527202757 -0.427767185 -0.555583366 -0.333346862 -0.555583366 -0.333346862 -0.555583366 -0.333346862 -0.555583366 -0.42587752 -0.216923723 -0.239862124 -0.239362122 -0.248480940 -0.43151645 -0.330735367 -0.357943500 -0.437425418 -0.72046902 -0.379425418 -0.72046902 -0.379425518 -0.1081305599 -0.810952811 -0.112991946 -0.11299999999999999999999999999999999999	0.133043869 0.202480524 0.202480524 0.13670333 0.17667501 0.12530357 0.161938312 0.136225691 0.069337932 0.0769357932	-110544358 -11264358 -11264358 -11264358 -11264358 -11264358 -11264359 -112645637 -112665637 -112665637 -112665637 -112665637 -112665637 -112665637 -112665637 -112665637 -112665637 -112665637 -112665637 -112665637 -112665637 -11266637 -112665637 -112665637 -11266637	0.001748726 0.001748726 0.001753495 0.001753495 0.001753495 0.001753495 0.001753495 0.00176521 0.001765221 0.001765236 0.001775413 0.001775413 0.001775413 0.001778475 0.001778475 0.001778474 0.001778475 0.001778475 0.0017878375 0.0017878375 0.0017878375 0.0017878375 0.0017878375 0.001878373 0.001883035 0.001812625 0.001812625 0.001812625 0.001812625 0.001812625 0.001812625 0.001812625 0.001812625 0.001812625 0.001812625 0.001812625 0.001812625 0.001812625 0.001812625 0.001812625 0.001812625 0.001812625	0.012893106 0.012890781 0.012890781 0.012990781 0.013079075 0.01307815 0.01335916 0.01345916 0.01345916 0.01345916 0.01345916 0.01345916 0.01345916
ZNF682 AL 35813.1 PPRB FUTS GUH-21 SWIS SWIS SWIT1 ATPROVED FATN DENR COPPT KEAP1 FATN DENR COPPT KEAP1 COPT KEAP1 TOPE COPT TO	305.7385146 688.05768352 3065.599001 3995.486405 1167.08967 276.9821936 1167.108967 276.9821936 1167.108967 278.9821936 1167.308919 1187.3	-0.416499735 -0.635164199 -0.607656241 -0.6532202757 -0.477767185 -0.555583166 -0.333364862 -0.5055583166 -0.333364862 -0.5055583166 -0.333364862 -0.239860123 -0.289766234 -0.239860123 -0.2486151645 -0.320753617 -0.320753627 -0.310754502 -0.310754502 -0.310551641 -0.310554201 -0.31054201 -0.3	0.135043869 0.202448593 0.202448293 0.208428249 0.11677013 0.177667901 0.135939371 0.10593871 0.105	-110544358 -112068825 -11246155 -112769148 -112668323 -112668323 -112668333 -112668333 -112668333 -112668333 -112668333 -112688333 -11268333 -112683333 -112683333 -11268333	0.001748726 0.001748726 0.001753495 0.001753495 0.001753495 0.001753495 0.00175321 0.001765261 0.001765261 0.001765261 0.001776318 0.001776328 0.001777827 0.001777827 0.00177827 0.00177827 0.00177827 0.00177827 0.001782729 0.001889053 0.001889053 0.001889053 0.001881577 0.001814575 0.001814575 0.0018145751 0.001826993	0.012893106 0.012896781 0.012896781 0.012896781 0.01296781 0.01307814 0.01307814 0.01307814 0.01307814 0.01307814 0.01307814 0.01307814 0.01307814 0.01307814 0.01307814 0.01307814 0.01307814 0.01307814 0.01307814 0.01307814 0.01307814 0.01307818 0.01307818 0.01307818 0.01307818 0.01312808
2NF682 AL35813.1 PRB FUTB FUTB KUL-21 SWIS SWIT1 ATPONDET FKTN DENR COD7 SEAP1 COCCASE2 TRR 2NF35 EFHOL FAMILIA FAMILI	305.7336144 688.6076352 15676.25529 3005.559001 3995.46600 1161.08967 276.9821926 1162.108967 276.9821926 1162.108967 1282.19113 3177.4765137 1282.199105 1282.199115 1377.4765137 1382.199105 1382.199115 1382.199105 1382.19	-0.416499735 -0.635168190 -0.607656241 -0.6352020757 -0.427767185 -0.53506836 -0.333346807 -0.535568366 -0.333346807 -0.425877752 -0.21693273367 -0.425877752 -0.21693273367 -0.425877752 -0.21693273367 -0.425877752 -0.236681627 -0.337943500 -0.4368161645 -0.337943500 -0.437425418 -0.73046992 -0.337943500 -0.437425418 -0.73046992 -0.31904992	0.133043869 0.202486024 0.136043869 0.202486024 0.136776330 0.177667901 0.15839377 0.15938377 0.15938377 0.15938377 0.15938377 0.15938377 0.15938377 0.1593878 0.096937832	-110544358 -110544358 -110564358 -11266373 -11264358 -11264358 -11264358 -11264358 -11264358 -112645637	0.001748726 0.0017488726 0.001753495 0.001753495 0.001753495 0.001753495 0.001753495 0.001765214 0.001765214 0.001765215 0.001776413 0.001776413 0.001776413 0.0017778437 0.0017778437 0.0017778437 0.0017778437 0.001778437 0.001778437 0.0017878437 0.0017878437 0.0017878437 0.001878437	0.012893106 0.01289078 0.01289078 0.01289078 0.01389078 0.013071057 0.01303067
2NF682 AL358131.3 PRB FUTB FUTB KURL21 SWIS SWIT AFF6NO DENR COPT KLAP1 COPT KLAP1 COCA2552 TIRR 2NF37A VIS28 FFHOI FAMCISA CUP12 LACTB COSSM AUL 2NF37A VIS28 FFHOI FAMCISA CUP12 LACTB TORG1 ONSM AUL 2NF336 MKRW1 1 BSIGD ACOMB22.3 FFOT TAP1 TAP1 TAP2 SUCSAA2 SAR18 LEARI	305.7386144 688.6026845 15676.25529 3005.559001 3995.46600 116.0.108967 276.98121926 1162.108967 276.98121926 1162.108967 1758.294556 1007.505069 2023.102154 4138.135067 4828.29415 3177.479613 3177.479613 318.135067 4828.29415 3177.479613 318.135067 318.135067 318.135067 318.135067 318.13602 344.5570688 865.7670939 241.990003 387.992815 119.7997031 100.411272 5068.347805 564.211272 5068.347805 564.211272 5068.347805 564.211272 5968.347805 564.211272 5968.347805 564.211272 5968.347805 564.211272 5968.347805 564.211272 5968.347805 564.211272 5968.347805 564.211272 5968.347805 564.211272 5968.347805 564.211272 5968.347805 564.211272 5968.347805 564.211272 5968.347805 564.211272 5968.347805 564.211272 5968.347805	0.416499735 0.635164199 0.607656241 0.6532020757 0.4277767185 0.555583166 0.393364862 0.5053296999 0.428567725 0.218923723 0.298766234 0.239366182 0.438105282 0.438165028 0.39956182 0.11829399683 0.303615741 0.57563999 0.303615741 0.575639999 0.303615741 0.575639999 0.303615741 0.575639999 0.303615741 0.575639999 0.303651571 0.555656200 0.656383871 0.636938371 0.636953871 0.77554200 0.636383871 0.7395965129 0.3352110 0.828660413 0.7395965129 0.3352110 0.828660413 0.7395965129 0.3352110 0.828660413 0.7395965129 0.3352110 0.828660413 0.739109162 0.2727336699	0.135043869 0.202448593 0.202448293 0.203428294 0.11677013 0.177667901 0.135939371 0.10393871	-110544358 -112068425	0.001748726 0.001748726 0.001753495 0.001753495 0.001753495 0.001753495 0.00175321 0.00175321 0.00175321 0.00175321 0.00175321 0.001776328 0.001776328 0.001776328 0.001776328 0.001776328 0.001776328 0.001776328 0.001776328 0.001776328 0.001776328 0.001776328 0.001776328 0.001776328 0.001763293 0.001849531 0.001840531 0.001840531 0.001840531 0.001840531 0.001840531 0.001840531 0.001840531 0.001840531 0.001840531 0.001840531 0.001840531 0.001840531 0.001840531 0.001840531 0.001840531	0.012893106 0.012893006 0.012895781 0.012895781 0.012895781 0.013007951 0.0130078637 0.0130078637 0.0130078637 0.0130078637 0.0130078641 0.0130078641 0.0130078641 0.0130078641 0.0130078641 0.0130078641 0.0130078641 0.0130078641 0.0130078641 0.0130078641 0.0130078641 0.0130078641 0.0130078641 0.0130078641 0.013154019 0.0134019 0.0134019 0.0134019 0.0134019 0.0134019 0.0134019 0.0134019 0.0134019 0.0134019 0.0134019 0.0134019 0.0134019 0.0134019 0.0134019 0.0134019 0.0134019 0.0134019
2NF682 AL35813.1 PRB FUTB FUTB KUL-21 SWIS SWIT1 ATPONDET FKTN DENR COD7 SEAP1 COCCASE2 TRR 2NF35 EFHOL FAMILIA FAMILI	305.7336144 688.6076352 15676.25529 3005.559001 3995.46600 1161.08967 276.9821926 1162.108967 276.9821926 1162.108967 1282.19113 3177.4765137 1282.199105 1282.199115 1377.4765137 1382.199105 1382.199115 1382.199105 1382.19	-0.416499735 -0.635168190 -0.607656241 -0.6352020757 -0.427767185 -0.53506836 -0.333346807 -0.535568366 -0.333346807 -0.425877752 -0.21693273367 -0.425877752 -0.21693273367 -0.425877752 -0.21693273367 -0.425877752 -0.236681627 -0.337943500 -0.4368161645 -0.337943500 -0.437425418 -0.73046992 -0.337943500 -0.437425418 -0.73046992 -0.31904992	0.133043869 0.202486024 0.136043869 0.202486024 0.136776330 0.177667901 0.15839377 0.15938377 0.15938377 0.15938377 0.15938377 0.15938377 0.15938377 0.1593878 0.096937832	-110544358 -110544358 -110564358 -11266373 -11264358 -11264358 -11264358 -11264358 -11264358 -112645637	0.001748726 0.0017488726 0.001753495 0.001753495 0.001753495 0.001753495 0.001765261 0.001765261 0.001765261 0.001776131 0.001776136 0.001777613 0.001777827 0.001777827 0.001777827 0.001777827 0.00177827 0.00177827 0.00178272 0.00178272 0.00178272 0.001878033 0.001880393	0.012893106 0.01289078 0.01289078 0.01289078 0.01389078 0.013071057 0.01303067
2NF682 2NF682 AL 35813.1 PPRB FUTS SUFLET FUTS SWIS SWIS SWIS SWIT1 ATPROVED FUTN FUTN FUTN FUTN FUTN FUTN FUTN FUTN	305.738514 688.0578352 15676.25529 3005.559001 3995.446405 1161.08907 276.98121905 276.98121905 276.98121905 276.98121905 276.98121905 276.98121905 276.98121905 276.98121905 276.98121905 2781.981219	0.416499735 0.635164190 0.607656241 0.6532202757 0.427767165 0.555563156 0.339364621 0.503269699 0.4263262757 0.2478767265 0.258766244 0.2393601282 0.346480869 0.486151645 0.3107536317 0.45015741 0.732066299 0.732066299 0.732066299 0.732066290 0.732066290 0.732066290 0.732065290 0.	0.135043868 0.2024405931 0.2024405931 0.2034605931 0.2034605931 0.20346074033 0.177607501 0.135939357 0.161938317 0.1052557512 0.00593575922 0.00593575922 0.00593575922 0.00593575922 0.00593575922 0.00593575922 0.00593575922 0.00593575922 0.00593575922 0.00593575922 0.00593575922 0.00593575922 0.00593575922 0.0059357592 0.005935	-1105/4158 -112068625 -11206865 -11206865 -11206865 -11206865 -11206865 -11206865 -11206865 -11206865 -11206865 -11206865 -11206865 -11206865 -11206865 -11206865	0.001748726 0.001748726 0.001753495 0.001753495 0.001753495 0.001753495 0.001753495 0.001753495 0.00176526 0.001776536 0.001776318 0.001776318 0.001776318 0.001776318 0.001776318 0.001776318 0.001776318 0.001776319 0.00176319	0.012893106 0.012890781 0.012890781 0.012890781 0.01290781 0.01290781 0.01307951 0.01307814 0.013128081
2NF682 AL35813.1 PPRB FUTB KUFL21 SWIS SWIT ATPONDET FERN DENR COLPT SEAPI COCCASE2 TRR 2NF37A VS57A V	305.7386144 688.6076835. 15676.25529 3005.559001 3995.4667. 1162.108967 276.98211926 275.9945186. 11667.500495 2023.10215. 4318.135067 4328.29415 3317.428538. 1367.500495 2023.10215. 1381.135067 4328.29415 3317.428538. 1367.2553637. 3151.81667. 3151.816	0.416499735 0.635168199 0.607695241 0.635268275 0.6352768275 0.427767185 0.535583366 0.333348627 0.5055283267 0.425877572 0.216932732 0.289746244 0.239990132 0.4244800184 0.431674364 0.3307383677 0.4515741 0.723046992 0.73066982 0.3357943500 0.4587425418 0.576893999 0.7306651877 0.1081905499 0.730658381 0.110015338 1.270941275 0.53509675 0.7055583817 0.7359695120 0.735963817 0.735963817 0.739109161	0.133043869 0.20248024 0.1367439331 0.20848248 0.136776330 0.137667901 0.13823937 0.13823931 0.136225691 0.009337342 0.009537932 0.0094063145 0.13525931 0.1095675932 0.0094063145 0.135259331 0.105675932 0.13452733 0.134627331 0.134627331 0.134627331 0.134627331 0.134627331 0.13462734 0.1353593831 0.205956556	-110544358 -1310544358 -131266353 -131263535 -131263535 -131263535 -131263535 -131263535 -131265535 -131265535 -131265535 -131265535 -131265535 -131265535 -131265535 -131265535 -131265535 -131265535 -131265535 -131265535 -131265535 -131265535 -131265535 -131265535 -131265535 -131265535 -131265355 -131365685 -131365685 -131365685 -131365685 -131365685 -131365685 -131365685 -131356685	0.001748726 0.0017488726 0.001753495 0.001753495 0.001753495 0.001753495 0.001765261 0.001765261 0.001765261 0.001776131 0.001776136 0.001777613 0.001777827 0.001777827 0.001777827 0.001777827 0.00177827 0.00177827 0.00178272 0.00178272 0.00178272 0.001878033 0.001880393	0.0129908 0.0129908 0.0129908 0.01299078 0.01297115 0.01300784 0.01315937 0.0132908 0.01349393
2NF682 2NF682 AL 35813.1 PRB FUTB FUTB FUTB FUTB FUTB FUTB FUTB FUT	305.738514 688.0578852 15676.25529 3005.559001 3995.446405 1161.08807 276.9812905 276.9812905 276.9812905 276.1162.108807 278.9812905 276.1162.108807 278.2945586 1067.500495 272.1162.1087 278.2945586 1107.79611 3940.655107 1128.119910 311.1199.34506	0.416499735 0.635164190 0.607656241 0.6532202757 0.427767165 0.555583366 0.393364862 0.5055583366 0.4063202075 0.42767275 0.216932773 0.216932773 0.239950132 0.239764224 0.239950132 0.237676274 0.239765274 0.2370753677 0.437425418 0.578933999 0.73206859 0.732276859	0.133043869 0.202948052 0.1340439531 0.208482449 0.136770333 0.177667501 0.125803877 0.161938317 0.135803875 0.161938317 0.136225691 0.05693379342 0.0595379342 0.0595379342 0.15555533 0.102661051 0.14418753 0.13555533 0.102661051 0.14418753 0.13555533 0.102661051 0.14418753 0.13555533 0.102661051 0.14418753 0.13555533 0.102661051 0.146137532 0.077327733 0.346502652 0.077327733 0.346502652 0.075327733 0.346502652 0.0753277330 0.07532753 0.07555263399 0.07532753 0.07532753 0.0755263399 0.07532753 0.0755263399 0.07532753 0.0755263399 0.0753275390 0.0753275390 0.0753275390 0.0753275390 0.0753275390 0.0753275390 0.0753275390 0.0753275390 0.0753275390 0.0753275390 0.0753275390 0.0753275390 0.0753275390 0.0753275390	-11054458 -11266151	0.001748726 0.001748726 0.001753495 0.001753495 0.001753495 0.001753495 0.001753495 0.001753495 0.001765264 0.001765264 0.00177612 0.00177612 0.001778017 0.001778017 0.001778017 0.001778017 0.001778017 0.001778017 0.00178017 0.00178017 0.00178017 0.00178017 0.00178017 0.00178017 0.00178017 0.00178017 0.0018018017 0.0018018017 0.001812625	0.01299078 0.01299078 0.01299078 0.01299078 0.012971151 0.013079051 0.013079051 0.01307841 0.01307841 0.01307841 0.01307841 0.01307854 0.01307854 0.01307854 0.01307854 0.01307854 0.01307854 0.01307854 0.01307854 0.01307854 0.01307854 0.01307854 0.01307854 0.01307854 0.01312608 0.01312608 0.01312608 0.01312608 0.01312608 0.013278 0.013281 0.013281 0.013281 0.013381 0.013381 0.013381 0.013381 0.013381 0.013381 0.013381 0.013381 0.013381 0.01338294 0.01338294 0.01338294 0.01338294 0.01338294 0.01338294 0.01338294 0.01338294 0.01338294 0.01348281 0.01348281 0.01348281
2NF682 AL 35813.1 PRB FUTB FUTB FUTB FUTB FUTB FUTB SWIF SWIF SWIF SWIF SWIF SWIF SWIF FUTB FUTB FUTB FUTB FUTB FUTB FUTB FUT	305 7386144 688 50768357 1507 7386144 688 50768357 1507 53529 3005 539001 3995 446400 1161 168907 276 9821926 276 9821926 276 9821926 2782 945586 1067 500495 2023 102154 4318 135067 4458 29415 317 4765137 1282 199100 7319 234677 11369 5480 677 53738 677 53738 677 53738 1347 258386 950 231677 315 234677 11369 5480 3487 2992815 119 7997031 110 7997031 11	-0.416499735 -0.635168190 -0.607656241 -0.632702375 -0.635168190 -0.607656241 -0.632202375 -0.42767185 -0.535568366 -0.333346826 -0.535568366 -0.425877752 -0.216932733 -0.298961282 -0.24848101645 -0.23207356377 -0.431073637 -0.431073	0.133043869 0.202480254 0.136043869 0.202480254 0.14199331 0.208482486 0.136776330 0.177667901 0.15893877 0.161938317 0.136225691 0.069337342 0.059575982 0.094051345 0.136255931 0.102651051 0.14413753 0.231540733 0.13627637 0.138319112 0.13825531 0.13627873 0.13637373830 0.17637373 0.177834529 0.266647191 0.177834529 0.266647191 0.177834529 0.177834529 0.177834529 0.177834529 0.177834529 0.177834529 0.177834529 0.177834529 0.177834529 0.177834529 0.177834529 0.177834529	- 110544158 110544158 110544158 110564158 11068615 11068615 11068615 11068615 11068615 11068615 111068615	0.001748726 0.0017488726 0.001753495 0.001753495 0.001753495 0.001753495 0.001753495 0.001765214 0.001765214 0.001765215 0.001776413 0.001776413 0.001776413 0.001777847 0.001777847 0.001777847 0.001777847 0.001777847 0.00177847 0.00177847 0.00177847 0.00177847 0.001787847 0.00187847 0.00187847 0.00187847 0.00187847 0.00187847 0.00187847 0.00187847 0.00187847 0.00187847 0.00188476 0.001884584 0.001884584 0.001884584 0.00188557 0.00188557 0.00188557 0.00188557 0.00188557 0.00188557 0.00188557 0.00188557 0.00188557	0.01292003 0.01292003 0.01292003 0.01292003 0.01292003 0.01292003 0.01300303 0.01300303 0.01300303 0.01300303 0.01300303 0.01300303 0.01300303 0.01300303 0.01300303 0.01300303 0.01300303 0.01300303 0.01300303 0.01300303 0.01300303 0.01300303 0.01300303 0.013003
2NF682 2NF682 AL 35813.1 PRB FUTB FUTB FUTB FUTB FUTB FUTB FUTB FUT	305.738514 688.0578852 15676.25529 3005.559001 3995.446405 1161.08807 276.9812905 276.9812905 276.9812905 276.1162.108807 278.9812905 276.1162.108807 278.2945586 1067.500495 272.1162.1087 278.2945586 1107.79611 3940.655107 1128.119910 311.1199.34506	0.416499735 0.635164190 0.607656241 0.6532202757 0.427767165 0.555583366 0.393364862 0.5055583366 0.4063202075 0.42767275 0.216932773 0.216932773 0.239950132 0.239764224 0.239950132 0.237676274 0.239765274 0.2370753677 0.437425418 0.578933999 0.73206859 0.732276859	0.133043869 0.202948052 0.1340439531 0.208482449 0.136770333 0.177667501 0.125803877 0.161938317 0.135803875 0.161938317 0.136225691 0.05693379342 0.0595379342 0.0595379342 0.15555533 0.102661051 0.14418753 0.13555533 0.102661051 0.14418753 0.13555533 0.102661051 0.14418753 0.13555533 0.102661051 0.14418753 0.13555533 0.102661051 0.146137532 0.077327733 0.346502652 0.077327733 0.346502652 0.075327733 0.346502652 0.0753277330 0.07532753 0.07555263399 0.07532753 0.07532753 0.0755263399 0.07532753 0.0755263399 0.07532753 0.0755263399 0.0753275390 0.0753275390 0.0753275390 0.0753275390 0.0753275390 0.0753275390 0.0753275390 0.0753275390 0.0753275390 0.0753275390 0.0753275390 0.0753275390 0.0753275390 0.0753275390	-11054458 -11266151	0.001748726 0.001748726 0.001753495 0.001753495 0.001753495 0.001753495 0.001753495 0.001753495 0.001765264 0.001765264 0.00177612 0.00177612 0.001778017 0.001778017 0.001778017 0.001778017 0.001778017 0.001778017 0.00178017 0.00178017 0.00178017 0.00178017 0.00178017 0.00178017 0.00178017 0.00178017 0.0018018017 0.0018018017 0.001812625	0.01299078 0.01299078 0.01299078 0.01299078 0.012971151 0.013079051 0.013079051 0.01307841 0.01307841 0.01307841 0.01307841 0.01307854 0.01307854 0.01307854 0.01307854 0.01307854 0.01307854 0.01307854 0.01307854 0.01307854 0.01307854 0.01307854 0.01307854 0.01307854 0.01312608 0.01312608 0.01312608 0.01312608 0.01312608 0.013278 0.013281 0.013281 0.013281 0.013381 0.013381 0.013381 0.013381 0.013381 0.013381 0.013381 0.013381 0.013381 0.01338294 0.01338294 0.01338294 0.01338294 0.01338294 0.01338294 0.01338294 0.01338294 0.01338294 0.01348281 0.01348281 0.01348281
2NF682 AL35813.1 PPRB FUTB KUF4.21 SWIS SWIS SWIT1 ARPONDET FERN DENR COLPT SEAPI COCASE2 TRR 2NF37A WS737A	305 7386144 688 50768351 15076 735214 688 50768351 15076 75529 3005 559001 3995.4467 1162.108907 276 98211926 7582 945586 1167 500495 2023.101215 4828.29415 3317.495951 7318.315067 4318.135067 4318.	0.416499735 0.635168190 0.607656241 0.6352762757 0.427767185 0.535583366 0.333348627 0.5055283267 0.425877752 0.216932732 0.289746244 0.239990182 0.4248690180 0.486151645 0.330738377 0.45915741 0.723066902 0.337943570 0.355583517 0.35	0.133043869 0.202480248 0.202480248 0.13670333 0.17767903 0.13593873 0.13625901 0.09837342 0.098579382 0.09406145 0.13525951 0.104118753 0.13525951 0.104118753 0.13525951 0.104612560 0.13525951 0.104612560 0.1352595831 0.104678331 0.114627897 0.139319112 0.18655861 0.13967823 0.13667861	-110544358 -1312664358 -131266317 -131264358 -131266317 -131264358 -131266317 -131266317 -131264358 -131263517 -131263517 -131263517 -131263517 -131263517 -131263517 -131263517 -131263517 -131263517 -131263517 -131263517 -131263517 -131263517 -131263517 -131263517 -131263517 -131263517 -13126317	0.001748726 0.001748726 0.001753495 0.001753495 0.001753495 0.001753495 0.001753495 0.001765241 0.001765241 0.001765241 0.001765241 0.001775413 0.001775413 0.001775413 0.001777827 0.001777827 0.00177827 0.00177827 0.00177827 0.00177827 0.0017827 0.0017827 0.0017827 0.001827 0.001827 0.001827 0.001827 0.00182857	0.012893106 0.012890781 0.012890781 0.012890781 0.012890781 0.01390781 0.01300781 0.01312900
2NF682 2NF682 AL 35813.1 PRB FUTB FUTB FUTB FUTB FUTB FUTB SWIS SWIS SWIS SWIS SWIS SWIS SWIS FUTB FACTOR FETB FETB FETB FETB FETB FETB FETB FETB	305 7336144 688 05076352 1056 7336144 688 05076352 1056 535900 3995 446405 116.108907 276 9811905 276 9811905 276 9811905 276 9811905 276 9811905 277	0.416499735 0.635168190 0.607656241 0.6352020757 0.427767165 0.555563366 0.333364621 0.5055533366 0.333364621 0.5055633666 0.425877752 0.216932732 0.2387662244 0.239390122 0.424480965 0.486151665 0.330753627 0.45015741 0.723046592 0.3787425418 0.578933999 0.732096582 0.303651637 0.108130549 0.732095825 0.303651637 0.108130549 0.732095825 0.303651637 0.755542604 0.630538517 0.755542604 0.630538517 0.755542604 0.630538517 0.7576427 0.757542604 0.630538517 0.757542604 0.630538517 0.757542604 0.630538517 0.757542604 0.630538517 0.757542604 0.630538517 0.757642604 0.630538517 0.757642604 0.630538517 0.757642604 0.630538517 0.757642604	0.133043869 0.202480244 0.1367043869 0.202480244 0.13677033 0.177667501 0.125803877 0.161938317 0.136225691 0.069337934 0.13555733 0.105661051 0.10561051	-110544358 -112644358 -112640364358 -112640364358 -112640364358 -112640364358 -112640364358 -1126403643643643643643643643643643643643643643	0.001748726 0.001748726 0.001753495 0.001753495 0.001753495 0.001753495 0.001753495 0.001753495 0.001753495 0.001753495 0.001775412 0.001775412 0.001775412 0.001775412 0.0017778475 0.001778475 0.001778475 0.001778475 0.001778475 0.001778475 0.001787813 0.001787813 0.001788137 0.001881374 0.001881374 0.001881374 0.001881377 0.00188295	0.01299050 0.01299071 0.01299072 0.0129071 0.0130071 0.0130071 0.0130071 0.0130071 0.0130072 0.013007
2NF682 2NF682 AL 35813.1 PPRB FUTS GUH-21 SWIS SWIS SWIT1 ATPROVED FETN DENR COPPT KEAP1 FETN DENR COPPT KEAP1 COPPT COPPT KEAP1 COPPT COP	305.738514 688.0576352 3005.738514 688.0576352 3005.539001 3995.446405 1162.108967 276.9821305 1067.500498. 1		0.135048669 0.202446293 0.136048669 0.202446293 0.136776132 0.17667901 0.17667901 0.17667901 0.1523871 0.1023871 0.1023871 0.1023871 0.1023871 0.1023871 0.1023871 0.1023871 0.1023871 0.1024871 0.1	-110544358 -112668526 -112668526 -112668526 -112668526 -112668526 -112668526 -112668526 -112668526 -112668526 -112686526	0.001748726 0.001748726 0.001753495 0.001753495 0.001753495 0.001753495 0.001753495 0.001753495 0.001753211 0.001753211 0.001753211 0.001775321 0.001775321 0.001777324 0.001777324 0.001777327 0.001777327 0.00177827 0.00177827 0.00177827 0.00177827 0.00177827 0.00177827 0.0017827 0.0017827 0.00182035	0.012993060 0.012996781 0.012996781 0.012996781 0.012996781 0.01296781 0.013007951 0.013007951 0.013007951 0.013007814 0.0130784181 0.013076544 0.013076544 0.013076544 0.013076545 0.013076545 0.013076545 0.013076545 0.013076545 0.013076545 0.013076545 0.013076545 0.013076545 0.01312909 0.01312909 0.01312909 0.013129199
2NF682 2NF682 AL358131.3 PPBB AL178	305 738514 305 738514 688 50708352 1507 738514 688 50708352 1507 53520 3095 546405 1161 108907 276 9811900 782 945386 1067 500405 202 110215 1107 500405 202 110215 1107 500405 202 110215 1107 500405 202 110215 1119 9465 655107 1119 9465 655107 1119 93457 1119 9357 1119	-0.416499735 -0.635148190 -0.67652411 -0.632202757 -0.427767165 -0.535563356 -0.333345462 -0.535563356 -0.333345462 -0.535563356 -0.435877752 -0.216932773 -0.216932773 -0.216932773 -0.216932773 -0.216932773 -0.216932773 -0.216932773 -0.216932773 -0.21693273	0.135043869 0.202440293 0.136043869 0.202440293 0.136074013 0.17667501 0.13503627 0.15193817 0.13503627 0.15193817 0.1350557582 0.094051343 0.155557582 0.094051343 0.155557583 0.102661051	-110544588 -112664518 -112668673 -112668673 -112668673 -112668673 -112668673 -112668673 -112668673 -112668673 -112668673 -112668673 -11268673	0.001748726 0.001748726 0.001753495 0.001753495 0.001753495 0.001753495 0.001753495 0.001753495 0.001753495 0.001753495 0.001775412 0.001775412 0.001775412 0.001775412 0.0017778475 0.001778475 0.001778475 0.001778475 0.001778475 0.001778475 0.001778475 0.001778475 0.001778475 0.0017878475 0.0017878475 0.001887476 0.001884758 0.001885877 0.001885877 0.001885878 0.001887480 0.001887480 0.001887480 0.001887480	0.01299078 0.01299078 0.01299078 0.01299078 0.01299078 0.01299078 0.01307841 0.013129908 0.01312908 0.013129199 0.01329199
2NF682 2NF682 AL35913.1 PPIB FUTS ILLE. IL	305.738514 688.0576352 3005.738514 688.0576352 3005.539001 3995.446405 1162.108967 276.9821305 1067.500498. 1		0.135048669 0.202446293 0.136048669 0.202446293 0.136776132 0.17667901 0.17667901 0.17667901 0.1523871 0.1023871 0.1023871 0.1023871 0.1023871 0.1023871 0.1023871 0.1023871 0.1023871 0.1024871 0.1	-110544358 -112668526 -112668526 -112668526 -112668526 -112668526 -112668526 -112668526 -112668526 -112668526 -112686526	0.001748726 0.001748726 0.001753495 0.001753495 0.001753495 0.001753495 0.001753495 0.001753495 0.001753211 0.001753211 0.001753211 0.001775321 0.001775321 0.001777324 0.001777324 0.001777327 0.001777327 0.00177827 0.00177827 0.00177827 0.00177827 0.00177827 0.00177827 0.0017827 0.0017827 0.00182035	0.012893106 0.012890781 0.012890781 0.012890781 0.01290781 0.01290781 0.0130790781 0.01307814 0.013078141

CALML6	80.45619783	1.031837276	0.332090121	3.107100184	0.001889324	0.013643552
G SDMC	48.95106793	-0.944912023	0.304126906	-3.106966215	0.00189018	0.01364439
PRELIDBA	608.1950409	-0.225540856	0.072595341	-3.106822757	0.001891097	0.013645668
ELMO 2	4078.116032	-0.240471697	0.077413246	-3.106337871	0.001894201	0.013659844
CCDC102A	362.4333075	0.606282492	0.195179329	3.106284333	0.001894544	0.013659844
ZNF518A	1199.461647	-0.582764851	0.187619028	-3.106107399	0.001895679	0.013662675
LRW D1	1822.041189	0.41348892	0.133137104	3.105737668	0.00189805	0.01367442
MOGS	1912.649101	0.286982173	0.092429836	3.104865105	0.001903658	0.013709464
NAA25	1151.940372	-0.415477259	0.133829446	-3.104527979	0.001905829	0.013719736
NLRCS	1700.263392	-0.538429013	0.173482816	-3.103644638	0.001911528	0.013755387
LTB4R	749.3358282	0.586490904	0.189056906	3.10219244	0.00192093	0.013817653
STARD13	1200.378973	-0.419280559	0.135175348	-3.101753134	0.001923783	0.013827379
TNFRSF10B	2132.405044	0.605983326	0.195364072	3.101815594	0.001923377	0.013827379
FAM162A	2845.907111	0.376220272	0.121339804	3.100551168	0.001931608	0.013878211
SLC35B1	2172.427817	0.279361242	0.090107705	3.100303598	0.001933224	0.013884404
CSF1	5203.545718	0.581060476	0.187430112	3.10014474	0.001934261	0.013886441
CYSLTR1	194.0463032	-0.433473431	0.139849914	-3.099561653	0.001938072	0.013908386
ALG13	1323.120292	-0.289018731	0.093254327	-3.099252769	0.001940094	0.013917476
TOR3A	1846.369614	0.418891825	0.135179628	3.098779249	0.001943197	0.013934314
INTU	1152.003196	-0.561187056	0.181157522	-3.097785005	0.001949728	0.013975706
SUPT5H	8456.532991	0.237016418	0.076526885	3.097165376	0.001953808	0.013999508
GOT2	4862.327064	0.315611222	0.101919876	3.096660194	0.001957141	0.014017936
TLE4	2614.040557	-0.428881396	0.138534467	-3.09584615	0.001962522	0.014051014
LPARS	868.9312352	-0.852770368	0.275496328	-3.095396492	0.0019655	0.014066871
NSUNS	1571.298756	0.460870385	0.148899156	3.09518466	0.001966904	0.014071457
BOLA2	557.9943308	0.512551588	0.165607316	3.094981548	0.001968251	0.014075633
NAV2	3132.252133	-0.553861825	0.178982607	-3.094500818	0.001971444	0.014090095
KIAA1755	3025.0725	-0.588707841	0.190246554	-3.094446813	0.001971803	0.014090095
CRIP2	9235.667235	0.497398265	0.160787057	3.093521793	0.00197796	0.014128616
IGFBP4	2825.959855	0.754255563	0.243840939	3.093227765	0.001979921	0.014137143
BCL2L12	349.9188529	0.558053953	0.180506919	3.091593144	0.001990855	0.014204208
CDC37	9245.151371	0.385531269	0.124700668	3.091653599	0.00199045	0.014204208
MBD8	8707.247316	0.459633674	0.148697879	3.091057354	0.001994451	0.014224357
PLA2G15	2324.82912	0.505760467	0.163631901	3.090842711	0.001995893	0.014229136
ENO3	399.7282164	0.611232671	0.197778667	3.090488378	0.001998276	0.014240616
G DF3	2.640373352	3.434553126	1.111377058	3.09035813	0.001999153	0.014241356
KANSL1L	463.2738575	-0.516894207	0.167294108	-3.089733482	0.002003362	0.014265825
PHF8	1301.643322	-0.380608405	0.123209323	-3.089120175	0.002007502	0.014289787
ERAL1	2716.158109	0.281841861	0.091261782	3.088279179	0.002013192	0.014324758
PACRG L	524.5375204	-0.317350668	0.10277903	-3.087698606	0.002017129	0.014347231
ALPK1	815.7226997	-0.570842669	0.184888374	-3.087499001	0.002018484	0.014351331
PTDSS1	2508.625558	0.330611769	0.10713933	3.08581144	0.002029975	0.014427463
DTNA	19581.01059	-0.671105486	0.217554301	-3.084772324	0.00203708	0.014466802
SCN M1	2046.246491	0.444771043	0.144178176	3.084870786	0.002036406	0.014466802
DERL3	152.5883672	-0.669693466	0.21711556	-3.084502396	0.00203893	0.014474359
RPS26	9587.393442	0.654098754	0.212068065	3.084381209	0.00203976	0.014474681
DIP2C	2813.773144	-0.545413205	0.176852092	-3.084007657	0.002042323	0.014483665
AARSD1	1385.285719	0.411359661	0.133386505	3.08396761	0.002042598	0.014483665
CYFIP1	6132.008771	-0.417727654	0.135463369	-3.083694552	0.002044474	0.014491388
OTU D7A	1693.213981	-0.760452872	0.246626417	-3.083420181	0.00204636	0.01449918
CNN3	14818.96879	-0.434631567	0.140965039	-3.083257872	0.002047476	0.014501516
DUSP11	3691.316	-0.430125794	0.139538146	-3.082496121	0.002052724	0.014533097
	672.6617216	0.437540824	0.141970857	3.081905922	0.002056798	0.01455635
RPL12	26726.95423	0.46996257	0.152506506	3.081590311	0.00205898	0.014566197
CCDC70	2.652360292	2.391595785	0.7761657	3.081295379	0.002061021	0.014575039
SDF2	2018.080146	0.335812959	0.10899163	3.081089415	0.002062447	0.014579531
APOL3	1109.029497	0.683825719	0.221969504	3.080719226	0.002065013	0.014592071
HLA-G	14.48197525	1.454831818	0.472278599	3.080452558	0.002066863	0.014599546
AASS	1155.956637	-0.653481949	0.212154245	-3.080220944	0.002068471	0.014602599
NEU3	795.1207931	0.382611327	0.12421792	3.080162072	0.00206888	0.014602599
WASF2	6823.786278	-0.310495848	0.100812392	-3.079937299	0.002070442	0.014608029
W DR45	2929.812238	0.26406563	0.08574443	3.079682618	0.002072213	0.014609339
BECN 1	3403.248909	0.173922136	0.056474016	3.079684205	0.002072202	0.014609339
CLCN7 HSPB2-C11orf52	7976.615093 463.7333087	0.324698893 0.758166546 -0.645567648	0.105436985 0.2462216	3.079554025 3.079204044	0.002073108 0.002075545	0.014610058 0.014621642
DLG1	5208.184432	-0.64556/648	0.209715698	-3.078299117	0.002081858	0.014660515
BRAT1	3546.110029	0.399602411	0.12987301	3.076870326	0.002091863	0.01472534
UOCRO	6767.951369	0.504756352	0.164058265	3.076689571	0.002093132	0.014728645
GIT2 SUPT3H	2678.980455 288.353308	-0.203759453 -0.552423191	0.164038263 0.066231452 0.179570433	-3.076475693 -3.076359414	0.002093132 0.002094634 0.002095451	0.014728643 0.01473359 0.014733714
DOCK1 SSBP2	4329.432213 1536.426746	-0.722505475 -0.453734398	0.234903998	-3.075747884 -3.075731156	0.002099753 0.002099871	0.014749793
LSG1 MAGOH	1572.457192 893.0399994	0.247038578 0.388047746	0.080319644	3.075693129 3.075420876	0.002100139 0.002102057	0.014749793
Clof112	363.5242544	-0.341509709	0.111049714	-3.075286716	0.002103003	0.014758659
SLC18A1	33.72988846	1.274687809	0.414546715	3.074895449	0.002105764	0.014772408
UPB1 TMCC1	62.3660111 1632.613877	0.99761344 -0.300374667	0.324637047	3.073011689 -3.072442576	0.002119102	0.014860323
ZBTB48	1294.917245	0.433426477	0.141069106	3.072440806	0.002123159	0.014877454
CCDC88B	2423.68909	0.679769032	0.221295173	3.07177523	0.002127899	0.014904998
TYMP	7215.903825	0.973154332	0.316863899	3.071206079	0.002131959	0.014927767
NCF1	1279.369088	0.850993307	0.277102978	3.071036306	0.002133172	0.014930584
SLC13A3	1614.318645	-0.69143105	0.22516327	-3.070798584	0.002134871	0.014934534
CLNK	10.8716975	-0.872939545	0.284277476	-3.070730606	0.002135357	0.014934534
CISD1	1391.345855	0.404111837	0.131614952	3.07040979	0.002137653	0.014944916
CXorf65	12.07743161	1.425801602	0.464386283	3.070292242	0.002138494	0.01494513
CYB561	1502.964866	0.539213258	0.17564128	3.069968848	0.002140811	0.01495565
NEK5	109.8806024	-0.747548112	0.243516934	-3.069799297	0.002142027	0.014958472
RIO K1	716.3095671	0.314135534	0.102336336	3.069638281	0.002143182	0.014960869
CCDC155	8.571938048	-0.973198761	0.317072952	-3.06932129	0.002145457	0.014971083
SUPT4HI	3188.093836	0.274430865	0.089434123	3.068525241	0.002151182	0.015005346
TTC7A	2347.574762	-0.385071678	0.125497748	-3.068355293	0.002152405	0.015005554
HIP1	4976.011834	-0.469416343	0.152989312	-3.068295002	0.00215284	0.015005554
SOWAHD	146.0317688	0.888938361	0.28979025	3.067523357	0.002158406	0.015038663
SN RPF	1712.076189	0.491722546	0.160325199	3.067032194	0.002161956	0.015057703
U N KL	1244.230583	-0.278080389	0.090676744	-3.06672226	0.002164198	0.015057811
TNFAIP1	3403.931371	0.327437507	0.106772242	3.066691315	0.002164422	0.015057811
KLHL12	2137.65534	0.203535576	0.066367562	3.066793018	0.002163686	0.015057811
EIF2D	1738.497127	-0.195898483	0.063894687	-3.06595886	0.002169732	0.015083359
FATE1	18.34576011	1.956043948	0.637981975	3.065986227	0.002169533	0.015083359
RHOU	8572.37549	-0.599388046	0.195522954	-3.065563576	0.002172602	0.015089437
TCHP	1040.495002	-0.398061321	0.129867866	-3.065125591	0.002175786	0.015089437
DNTT	0.831781985	-2.071016209	0.675676484	-3.065100323	0.00217597	0.015089437
PROSER2	47.76619465	0.888571924	0.289904562	3.065049814	0.002176337	0.015089437
STX5	2239.290351	0.397574699	0.129706381	3.065189981	0.002175318	0.015089437
ODC1	4221.971788	0.687218578	0.224197523	3.065237155	0.002174975	0.015089437
YIPF3	5667.538412	0.35464955	0.115698842	3.065281768	0.00217465	0.015089437
ATP6V1B2	9958.11053	0.37865827	0.12355501	3.064693772	0.00217893	0.015096051
MKN K2	4140.431207	0.380688024	0.124213566	3.064786211	0.002178256	0.015096051
SMC6	926.3489606	-0.339106731	0.110661582	-3.064358235	0.002181375	0.015096284
ALDH8A1	175.6981083	-0.630360288	0.205707284	-3.064355699	0.002181394	0.015096284
PAN K1	272.6260287	0.691278258	0.225587093	3.064351994	0.002181421	0.015096284
LIN 37	664.9941784	0.402515092	0.131364838	3.064100696	0.002183254	0.015103299
TRAPPC4	2074.515966	0.302502393	0.098744958	3.063471785	0.002187848	0.015129402
GLO1	5194.594506	0.171348062	0.055936076	3.06328357	0.002189225	0.015133244
MCMBAP	4408.496256	-0.203441615	0.066418654	-3.063019243	0.00219116	0.015136875

1000 1000	RIPOR1	4281.103964	0.421082647	0.137474497	3.062987365	0.002191393	0.015136875
	PIGC	1100.088127	0.308350987	0.100684623	3.062543001	0.002194649	0.015153688
1999 1999	ZFP57	72.97727524	2.092588425	0.683488834	3.061627815	0.00220137	0.01518871
	CYP2E1	227.8761925	-0.621099902	0.202936099	-3.060568842	0.00220917	0.015214046
1985 1985	ADH5	4874.926639	0.268444123	0.087717473	3.060326687	0.002210957	0.015214983
1.00							
	KAZN	4839.26419	-0.495914586	0.16225751	-3.056342885	0.002240549	0.015389889
1995 1995							
1987 1985							
1979 1980-207 1990-207 19							
1965 1965	PTX3	1169.126879	1.275037005	0.417611634	3.053164474	0.002264418	0.015513367
1971 1970							
1870 1870							
March							
1955 1974 1985	NR2C1	1104.481152	-0.27320377	0.089613027	-3.048705978	0.002298293	0.015692939
Color							
MATERIAL		100000000					
March			0.345197532	0.113244331		0.00230175	0.015693283
	ZNF326	2015.338612	-0.383999477	0.125987457	-3.047918313	0.002304326	0.01569923
MATERIAN 100.0000							
MARCON 1485-000		33333					
March Marc		3440.556402	0.19536227	0.064115863	3.047019289	0.002311229	0.01572423
MASSISS 199 197	FAR1	4134.350825	-0.474879685	0.155905767	-3.045940461	0.002319538	0.015767893
MASSIAN 10.0.1573							
1156	EXOC8	823.8845056	0.234566967	0.0770572	3.044062957	0.002334063	0.015837425
1971 1.00	INTS6L	562.9209748	-0.477653618	0.15693567	-3.043626852	0.002337449	0.015843998
1000009							
CHAPTER 1504.01781	TU BG CP3	1171.121349	-0.318928839	0.104877591	-3.040962677	0.002358231	0.015954417
1118 500 11187 0.00012134	CRISPLD1	1634.417838	-0.91568587	0.301142077	-3.040710479	0.002360207	0.015961926
MAPPI							
USANDA							
MAINTENN 0.955245 0.155046 0.1100404 0.0013917 0.00139					-3.037663807		
DARG 1002-159602	PDCL3	982.8235763	0.35925845	0.118304936	3.036715634	0.00239171	0.016133535
Model							
MAISTREF 447.21003	TPG S1 RG S1	1421.419948 4532.392013	0.586779292 -1.019990526	0.193307394 0.336042882	3.035472574 -3.035298706	0.002401591 0.002402976	0.016183137 0.016183688
SCHE SOLUTION OLIVERY OLIVERY OLIVERY SOLUTION OLIVERY Oliv	C9						
1976 75.005.00.00.00.00.00.00.00.00.00.00.00.0	VSTM1	90.42947646	0.809637698	0.266764469	3.03502825	0.002405132	0.016183688
PART 1.00	SP6	75.03618308	1.145554113	0.377492326	3.034642125	0.002408213	0.016191518
NAME 1.298.05325							
MAINT						0.002418407	
GHGS	ACAP1	354.4627388	0.747305729	0.246465521	3.03209035	0.002428665	0.016299296
KRT15	GNG5	4611.598689	0.447097583	0.147478409	3.031613828	0.002432502	0.016313165
NOG 149.8550759 0.749651321 0.247332977 3.030999633 0.00244794 0.0163256; 7AP2 166.762299 0.138446413 0.105087718 3.030935950 0.00244328 0.01634292; 0.00FORD 116.554431 0.338157906 0.111590099 3.030935950 0.002443288 0.01634292; 0.00FORD 116.554431 0.338157906 0.111590099 3.030935950 0.002442628 0.01634292; 0.00FORD 116.554431 0.338157906 0.111590099 3.030935950 0.002442628 0.01634292; 0.00FORD 116.554431 0.01634292; 0.00FORD 116.554431 0.01634292; 0.00FORD 116.554431 0.01634292; 0.00FORD 116.55444006 0.046751822 0.046751823 0.04647668 0.00744185 0.01634294; 0.00FORD 116.55444006 0.04670641 0.01727877 3.039786158 0.002447415 0.0163594, 0.00FORD 11790090409 0.05470641 0.01727877 3.039786159 0.002447415 0.0163594, 0.00FORD 11790090409 0.02451844 0.016369251 0.002451844 0.01636924, 0.00FORD 11790090409 0.02451844 0.016369251 0.002451844 0.016369254, 0.00FORD 11790090409 0.05470640 0.05740540 0.002451877 0.00245587 0.01640157, 0.00FORD 11790090409 0.05470640 0.05740540 0.00245572 0.00245587 0.01640157, 0.00FORD 11790090409 0.05470640 0.05740540 0.00245587 0.00245						***************************************	
FAMP2							
BUBIS	FARP2	1663.762399	-0.318446812	0.105087718	-3.03029525	0.002443148	0.016342929
PRODER 2575.583304	BU D81	4475.700342	0.467513823	0.154270723	3.030476638	0.002441681	0.016342929
ACTPRP1							
COND 3535.414804 0.313047225 0.103365138 3.02857154 0.002457246 0.016401511 UTP6 1609.90487 0.26391299 0.087140324 3.0285572 0.002456607 0.016401515 CAPY2 2.901.12159 0.500761505 0.18515729 3.0283572 0.002456507 0.01640153 GADDSB 5735.655698 0.81303122 0.268474699 3.02337951 0.002459029 0.01640153 WDR305 4720.997765 0.438611821 0.14485656 3.027379014 0.002462563 0.01641165 FRM 1.00.45304 0.756661607 0.3334321 3.027379018 0.002462563 0.01641165 FIR 1.010.45304 0.55156118 0.182254605 3.002816011 0.00247143 0.01646965 CYC 1.1252.10809 0.5515678 0.13234417 3.0527465 0.002477367 0.01649588 SICCRA 1.025.2004 0.55216270 0.13234417 3.0257465 0.002477367 0.016495188 SICCRA 1.025.20024 0.654379108 0.21600024 3.025					-3.029228167	0.002451794	0.016382929
ACYP2 2490 128159 0.560761505 0.185167920 -3.028384127 0.0245857 0.01640151 GADDASS 573, 635688 0.813031212 0.268474699 3.02837861 0.00245929 0.016401551 MORBIOS 472, 997765 0.438811828 0.14465568 3.002337861 0.00245565 0.016401561 FAMIJC 1808,819564 0.766051067 0.23304321 -3.0727379016 0.002466844 0.01641765 FR 1.010,465304 0.551551159 0.182254605 -3.026816011 0.002471443 0.016469961 CKT 1.0222,210888 0.5515511661 0.18248439 3.026816011 0.002471743 0.016469961 CKT 1.0225,240221 0.02248030 0.0221990 0.172584157 3.02576465 0.00248003 0.01619186 CKT 1.0225,670223 0.052197910 0.215300041 3.02357683 0.00248003 0.01659081 GKB 1.0225,670224 0.052379142 0.0750005959 3.024567323 0.00248808 0.01655081 GKB 1.0225,670224 0.04531000	CCN D3	3535.414804	0.313047229	0.103365138	3.028557154	0.002457246	0.016401516
WORRSO 5 4720 997765 0.48651827 0.14485686 3.027903944 0.00246563 0.016419167 FR 180 3.19554 0.766061067 0.233044321 3.02739701 0.00246844 0.01641767 FR 1010.465503 0.55163116 0.18224565 3.002682279 0.00247143 0.01649667 ZYX 1222.1088 0.55511668 0.1844439 3.00692279 0.00247767 0.01649665 SICEM 1245.550004 0.52519700 0.17584157 3.02574665 0.00248053 0.01649185 SICEM 1022.670234 0.55519700 0.17584157 3.02574665 0.002480569 0.01659185 SICEM 1022.670234 0.55519700 0.216500241 3.02537685 0.002480569 0.01659781 SICEM 13451.474222 0.230971422 0.076805599 3.024575239 0.00248986 0.01659781 GET3 501.189921 0.445310086 0.147277795 3.02245751 0.00248978 0.01659028 DMG1 3439.14800 0.45000325 0.142222862 3.02340557 <th>ACYP2</th> <th>2490.128159</th> <th>-0.560761505</th> <th>0.185167929</th> <th>-3.028394327</th> <th>0.00245857</th> <th>0.016401537</th>	ACYP2	2490.128159	-0.560761505	0.185167929	-3.028394327	0.00245857	0.016401537
FER 1010.465304 -0.551651156 0.182254005 -3.006816011 0.000471443 0.016466465 27X 1222.10898 0.555116676 0.18344319 3.00692779 0.002477367 0.01649965 CPCES 1226.55030 0.5221990 0.172594157 3.02692779 0.002477367 0.01649985 SLC262 1026.55030 0.5221990 0.172594157 3.02574665 0.00248003 0.01651188 SLC262 1026.57034 0.654379108 0.21630041 3.03537685 0.002483839 0.01659188 SLC262 1.026.57034 0.654379108 0.21630041 3.03537685 0.002483839 0.01659541 GFEE 1.026.57034 0.054379108 0.1650041 3.03537685 0.002483839 0.01659541 GFEE 1.026.57034 0.054379108 0.16777759 -3.023607149 0.002487806 0.016565411 GFEE 1.026.57034 0.045310088 0.147777759 3.023607149 0.002487806 0.01660666 DMP1 349.143009 0.430303253 0.142222982 3.023634657 0.002487808 0.01660666 DMP1 349.143009 0.450303253 0.142222982 3.023634657 0.002487808 0.01660666 DMP2 0.654210 0.05400091 0.058087118 0.02148488 3.02124004 0.002487806 0.016606666 DMP2 0.05407813 0.05608712 0.000248780 0.000250077 0.01662702 CPGE 0.05407813 0.05607812 0.000250872 0.000250877 0.01662702 CPGE 0.05407813 0.056779347 0.000250832 0.01659542 GFEE 0.0002508069 0.042514629 0.14064809 3.022746872 0.000250832 0.01659582 GFEE 0.0002508069 0.042514629 0.14064809 3.022746872 0.000250832 0.01659582 GFEE 0.000250807 0.0569592 0.000250807 0.01665928 DMG 0.000250807 0.000250807 0.01665928 DMG 0.000250807 0.000250807 0.01665928 DMG 0.000250807 0.000250807 0.000250807 0.000250807 0.000250807 0.01665928 DMG 0.000250807 0.0002	W DR83OS	4720.997765	0.438611828	0.144856586	3.027903944	0.002462563	0.016419169
ΣΥΧ 1222.10898 0.55511627 0.18344339 3.02692279 0.002477367 0.01649966 CHCR5 1245.553004 0.5211990 0.17258117 3.02374665 0.00248003 0.01619188 SLCEAR2 102.6 C07234 0.65437200 0.218100241 3.02374665 0.00248038 0.01615188 HAGBI 14524.74222 0.220791427 0.076305599 -3.024567329 0.00248980 0.01655541 GZE3 502.1899291 0.445310086 0.147277759 -3.023507149 0.00249786 0.01656542 GMP1 3439.148505 0.40303225 0.12229282 3.023450457 0.00249786 0.01656068 DM62 68.74080091 0.850887182 0.281448488 3.023243045 0.002500813 0.01665008 RMGFE4 828.100248 -1.238293232 0.409677822 -3.022595282 0.002509813 0.01665008 AC012314.1 668.2177387 0.4273647 0.320812743 3.022348974 0.00550982 0.01665328 GET4 387.514166 0.38964109 0.339844109							
\$\(\) \qquad \qquad \qquad \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqqqq \qqqq \qqqqq \qqqqqq	ZYX	12222.10898	0.555116626	0.18344339	3.026092279	0.002477367	0.016499961
G2E3 502.1899291 -0.445310088 0.147277759 -3.023607149 0.002497806 0.01666068 DMW1 3439.143609 0.430303253 0.142227982 3.023634557 0.002497833 0.01666068 DMS2 6.67.74080091 0.850887182 0.28144888 3.02244095 0.002500031 0.01660088 RMPGEF4 8284.100248 -1.238292322 0.409627822 -3.022969281 0.00250007 0.016629127 7C396 902.3860009 -0.425146329 0.34064909 -3.022744971 0.00250081 0.01664528 GET4 387.2514164 0.38984109 0.131994074 3.02248547 0.002507462 0.01664528 IMSU 6.6827738 0.38984109 0.131994074 3.022435547 0.00250946 0.01665328 IMSU 6.6827738 0.38984109 0.10793935 3.022405517 0.00250949 0.01667718 MSU 6.486777346 -1.091995250 0.301533309 3.020351727 0.00253931 0.01677738 MSPG 1.183706246 0.88230153 0.292151544	SLC26A2	1022.670234	0.654379108	0.216300241	3.025327685	0.002483639	0.016529787
DMS2 68.74080091 0.850887182 0.281448488 3.02343045 0.002500813 0.016650081 RWG EF4 828.4.100248 -1.238793232 0.409677822 -3.022596283 0.005503977 0.016653261 C2136 90.23580056 -0.42146312 0.14094690 -3.022748972 0.002590493 0.016653261 AC012314.1 668.2177382 0.697596477 0.230812743 3.022348174 0.002508219 0.016645281 GET4 3387.514164 0.398944109 0.31994074 3.022349547 0.00557662 0.016645281 EMG I 150.023738 0.136209652 0.10793935 3.022349547 0.002507662 0.016655081 RGU K 64.96727546 -1.09199524 0.361523309 -3.002531727 0.002523313 0.016727385 NSSF6 1.433706246 0.88520153 0.322165144 3.002059418 0.00252279 0.016727385 MPO 139.4860165 0.29651090 0.096184123 3.002052722 0.00252744 0.016727395 CD3 688.337963 0.290510900 0.0							
NAPE EF4 8284.100248 -1.238.292322 0.409627822 -3.022969283 0.002503077 0.016629127 2C196 902.3960069 -0.423.146329 0.1.0654909 -3.022744972 0.002504922 0.016654528 A012334.1 668.2173782 0.0975956472 0.230812743 3.02248174 0.002508219 0.016654528 GET4 387.2314164 0.38984109 0.31994074 3.02245957 0.002507462 0.01664528 EMG I 1.506.023738 0.3265051 0.107939935 3.02245957 0.00250994 0.01667738 RSG VK 6.456772746 -1.091999526 0.361523309 -3.00031727 0.002533313 0.01677738 RSS F6 1.433706246 0.88250153 0.292161544 3.00094418 0.0025279 0.01677738 MPO 1.94860166 0.6965099 0.23057095 3.0023672022 0.002525493 0.016727999 CD3 688.38.3763 0.293051090 0.036163122 3.002062174 0.00252744 0.016727999							
ACD12314.1 668.217736.2 0.697596477. 0.23081274.1 3.02248174. 0.002508219. 0.016645287. GET4 387.514164 0.398944109. 0.319994074 3.02248547. 0.002507462. 0.016645787. HWG I 1506.023738 0.36209652. 0.107999935. 3.02248547. 0.0025079094. 0.016650715. IRG UK 64.96727549. -1.09199262. 0.361523309. -3.00253177. 0.00252279. 0.01672738. PASSF6 14.83706246. 0.88350153. 0.3292161544. 3.002059418. 0.00252279. 0.01672738. MPO 139.4860166. 0.69638659. 0.230570555. 3.002052722. 0.00252749. 0.01672738. CD3 688.317963. 0.290510908. 0.096184123. 3.003062374. 0.002527724. 0.01672739.	RAPG EF4	8284.100248	-1.238292323	0.409627822	-3.022969281	0.002503077	0.016629127
EMG 1 1506.023738 0.326209652 0.107939935 3.022140516 0.00250994 0.016650712 18GUK 64.06727546 -1.091992644 0.361523309 -3.000531727 0.002523313 0.016727385 RAKSF6 14.83706244 0.88250153 0.29216154 3.0059418 0.00252279 0.016727385 RPO 139.486016 0.69638569 0.230570955 3.020570223 0.00252493 0.0167273985 CDV3 6683.817963 0.290510906 0.096184123 3.020362374 0.002524724 0.016727399	AC012314.1	668.2177382	0.697596472	0.230812743	3.022348174	0.002508219	0.016645287
RKS5F6 14.83706246 0.88250153 0.292161544 3.020594418 0.00252279 0.016727385 MPO 139.4860166 0.69638659 0.230570955 3.020270223 0.002525493 0.016729795 CD/3 6883.817963 0.290510906 0.096184123 3.020362374 0.002524724 0.016729795	-						
MPO 139.4860166 0.69638659 0.230570955 3.020270223 0.002525493 0.016729799 CD/3 6883.817963 0.290510906 0.096184123 3.020362374 0.002524724 0.016729799							
	MPO	139.4860166	0.69638659	0.230570955	3.020270223	0.002525493	0.016729799

MTA2	4949.737557	0.367406933	0.121680729	3.019434015	0.002532475	0.01675798
FMOD	602.0747149	0.78353126	0.259491179	3.019490923	0.002531999	0.01675798
ITPRIPL2 PLEKHM1	1573.634945 2934.397148	0.444742128 0.313598368	0.147313799 0.103888745	3.019012013 3.018598101	0.002536005 0.002539472	0.016775316 0.016792222
ZMAT2	4497.89423	0.265632931	0.088012046	3.018142879	0.00254329	0.016811436
SLC35B3	793.8371464	-0.335570218	0.111193193	-3.017902513	0.002545308	0.016818744
SRCIN1 ZNF705G	11020.67602 1.806498466	-0.686669551 -1.606171311	0.22754428 0.532318078	-3.017740336 -3.01731498	0.00254667	0.016821715 0.016827245
MFSD9	224.0546809	0.492762549	0.163306637	3.017406753	0.002549475	0.016827245
APEX2	1220.28198	0.457302385	0.15155453	3.017411527	0.002549434	0.016827245
ATP5MF MDN 1	6959.173028 3131.304032	0.43914098 -0.556380573	0.145581511 0.184476038	3.016461213 -3.016004564	0.002557439 0.002561294	0.016868665 0.016883159
KIA40355	1710.125098	-0.357293348	0.118469732	-3.015904077	0.002562143	0.016883159
ADIPO R2 SLC35A2	8963.726831 1107.024459	-0.492626295 0.314443854	0.163344379	-3.015875415 3.015657154	0.002562385	0.016883159 0.016883243
POP5	1219.754255	0.346970443	0.11505596	3.015666839	0.002564148	0.016883243
ЛВ	5666.604097	0.362844818	0.12033355	3.015325469	0.002567036	0.016889651
HO MEZ KLHDC1	757.1722469 297.3624128	0.326977675 -0.647781253	0.108435141 0.214862055	3.015421681 -3.014870421	0.002566222 0.002570891	0.016889651 0.016908974
DN MT3A	2041.186338	-0.303477839	0.100678112	-3.014337817	0.002575409	0.016932646
RPL29 SPATA20	21574.78833 4762.899396	0.469260482 0.370963879	0.155688123 0.123075357	3.01410586 3.014119865	0.002577379 0.00257726	0.016933515 0.016933515
ZRAN B2	3138.018608	-0.321850686	0.106795761	-3.013702827	0.002580805	0.016949982
FCN3	31.75065345	1.211217798	0.401956048	3.013309049	0.002584156	0.016965947
DPF3 RN F145	651.1824378 3274.966126	-0.53307391 0.335623204	0.176959118 0.111466555	-3.012412789 3.010976749	0.002591799 0.002604088	0.017010065 0.017084634
STARD8	3617.879377	0.295024021	0.09799409	3.010630749	0.002607057	0.017098025
PI4K2B	494.0019104	0.467829271	0.155473738	3.009056554	0.002620603	0.017174644
SERTAD3 ZN F320	880.6414706 213.2710289	0.490368473 -0.744412354	0.162963638 0.24744268	3.009066811 -3.008423416	0.002620515 0.00262607	0.017174644 0.017204351
USP29	5.58127609	1.515244875	0.503693638	3.008266853	0.002627423	0.017207101
COBL	8407.21324 1169.0101	-0.72472119 0.300202305	0.240968883	-3.00753019	0.0026338	0.01723661
NOL9 SERPINB4	1.844187835	3.059495963	1.017457457	3.007549463 3.007001366	0.002633633 0.002638386	0.01723661 0.017260494
LRCHB	1822.078688	-0.332739874	0.110663635	-3.006767971	0.002640412	0.017267621
TMEM63A ZCRB1	10729.12179 3085.860012	-0.751704898 -0.359737253	0.250017987 0.119654895	-3.006603279 -3.006456636	0.002641843 0.002643117	0.017270849 0.017273054
AMELX	0.987150437	2.409665374	0.801574752	3.006164263	0.002645117	0.017277418
PCBD1	1721.113943	0.357796066	0.119018488	3.006222578	0.002645153	0.017277418
ICE2 AAG AB	1355.260827 1744.863462	-0.301838593 0.182353364	0.100420281 0.060673356	-3.00575332 3.005493297	0.002649238 0.002651504	0.017294655 0.01730332
ZNF784	512.3295087	0.562985616	0.187371896	3.00464279	0.002658929	0.01734563
ALYREF PTCD3	1977.932784 3033.437364	0.50367906 -0.234311607	0.167641886 0.078010116	3.004494105 -3.00360541	0.002660229	0.01734797
MYOMS	58.25683408	-0.23431160/ 0.730565895	0.243238269	-3.00360541 3.003498991	0.002668944	0.017392495
FOXO4	2786.607833	-0.653368814	0.217551684	-3.003280883	0.002670858	0.017398813
RASG RF1 ZN F224	2247.200457 1210.261814	-0.669886703 -0.324184394	0.223132745 0.107994578	-3.002189128 -3.001858046	0.002680456 0.002683373	0.017455167 0.017467989
VPS33B	968.3520249	0.260744752	0.086877991	3.001275102	0.002688516	0.017495287
ARF1 BN IPI	16076.4418 29.66680142	0.287001049 -0.510649876	0.095630017 0.170158591	3.001160705	0.002689526 0.002690741	0.017495683
MAPRE2	29.66680142 8315.639674	-0.510649876 -0.438982842	0.170158591	-3.001023178 -3.000430134	0.002690741	0.017497411
ROM1	4508.182306	0.648061568	0.215988185	3.000449167	0.002695817	0.017519156
CFAP44 ALAD	652.2418286 9912.075443	-0.595902022 -0.446971099	0.198647923 0.14900119	-2.999789848 -2.999782063	0.002701659 0.002701728	0.017544099
OXT	6.073522576	1.529941862	0.510058403	2.999542507	0.002703854	0.017551717
PRSS21 PHKG 2	31.0486303 1881.062008	1.088415496 0.360177373	0.362932739	2.998945475 2.997728172	0.002709158	0.017579954 0.017644108
PHKG 2 ZNF580	1881.062008 2968.03781	0.360177373 0.489271761	0.120150111 0.163299746	2.997728172 2.996157515	0.002720002 0.002734052	0.017644108
RNF13	7222.916186	-0.590099161	0.196987538	-2.995616716	0.002738905	0.017754229
DN AH10 N DU FA11	145.0840433 8364.504238	-0.558164988 0.541811052	0.186392095 0.180985142	-2.994574351 2.993676975	0.002748281 0.002756376	0.017808743 0.017854922
MS4A4E	151.4044121	-0.719624618	0.240412758	-2.993287973	0.002759892	0.017859804
DRAP1	7310.61085	0.536897438	0.179368079	2.993271939	0.002760037	0.017859804
CYP1B1 CASP1	769.2724827 1488.269879	0.843572888 0.825708105	0.281812656 0.275876712	2.993381846 2.993033008	0.002759043 0.002762199	0.017859804
TM2D1	1198.00883	-0.357506515	0.119480944	-2.992163454	0.002770079	0.017912206
MEX3B DDX52	197.8985245 1064.57296	0.800161479 0.25680797	0.267477153 0.085854632	2.991513364 2.99119529	0.002775984 0.002778877	0.017944092 0.017956496
HS3ST5	357.8837925	-0.619885874	0.20724491	-2.991078884	0.002778877	0.017957046
VW A5B1	18.72457537	-0.970852481	0.324597075	-2.990946489	0.002781142	0.017958539
BBS9 POLR1E	685.0925903 853.5487991	-0.569620157 0.405164625	0.19047183 0.135508503	-2.990574289 2.989957211	0.002784534 0.002790165	0.017974142
KIA/0556	1536.599292	-0.401399475	0.13426931	-2.989510213	0.002794251	0.01802424
STX3	1389.222017	0.393509959	0.131646877	2.989132513	0.002797708	0.018027607
TO MM40L CLN 6	1249.550092 2026.969957	0.292407188 0.430934287	0.097823266 0.144156984	2.989137442 2.989340334	0.002797663 0.002795805	0.018027607 0.018027607
RFXAN K	2552.178975	0.594226035	0.198828398	2.988637649	0.002802242	0.018050516
TBL2 LPCAT1	1301.641016 4288.18745	0.30952361 0.480075584	0.103620944 0.160714007	2.987075769 2.987142144	0.002816599 0.002815988	0.018130319
ACAD9	2048.480898	0.224620293	0.075203501	2.986832945	0.002818837	0.018130319
LPCAT2	1121.437384	-0.646321475	0.216447711	-2.986039776	0.002826159	0.018175995
RPS4X BLK	27526.30767 11.58510309	0.406389587 1.239190983	0.136103812 0.415013902	2.985879545 2.985902348	0.00282764 0.002827429	0.018175995 0.018175995
ASCC3	1398.3652	-0.343471809	0.115057883	-2.98520884	0.002833848	0.018209547
RNASE1 ZNF599	38577.71394 342.9175899	0.828655918 -0.306654831	0.277659474 0.102756222	2.984432352 -2.984294514	0.00284105 0.00284233	0.018249464 0.018251327
EML3	4952.845086	0.442142035	0.148177792	2.983861677	0.002846354	0.018270798
PARD3B EIF2S2	628.7546224 5454.723699	-0.877710351 0.290575685	0.294259162 0.097425938	-2.982780028 2.982528997	0.002856432 0.002858776	0.018329104 0.018331377
UQCR11	5454.723699 9531.697801	0.290575685 0.566707555	0.097425938 0.190008182	2.982528997 2.982542905	0.002858776 0.002858646	0.018331377 0.018331377
CMTM6	2347.964277	0.555766249	0.186349216	2.982391131	0.002860063	0.018333256
PIK3C3 OSBPL9	2163.807419 2583.234474	-0.31367733 -0.328088985	0.105213883 0.110050373	-2.981330221 -2.981261906	0.002869991 0.002870632	0.018388207 0.018388207
KIFC3	3361.818175	0.32039556	0.107483175	2.980890345	0.002874117	0.018404135
COPS6 BCAS3	5896.078135 1362.076219	0.364461018	0.122276126	2.980639217	0.002876475	0.018412834
BCAS3 XAB2	1362.076219 3850.406058	-0.549273201 0.438212131	0.184297036 0.147046216	-2.980369148 2.980097986	0.002879012 0.002881562	0.018422678 0.018432595
EIF3D	5400.033822	0.332453085	0.111562759	2.979964699	0.002882816	0.018434218
CMPK2 ADMS	612.6102297 108.4824063	-0.576700791 0.833106993	0.1935379 0.279613125	-2.979782199 2.979498879	0.002884534 0.002887203	0.018438806 0.018449467
POLR3G	292.8866089	-0.41480284	0.139235316	-2.97914962	0.002897203	0.018464108
RAPG EF6	1168.971602	-0.578588213	0.194230005	-2.978881728	0.002893024	0.018467455
	3998.228686 4903.135971	0.26700864 0.652437202	0.0896331 0.219086774	2.978906695 2.977985337	0.002892789 0.002901499	0.018467455 0.018515138
SUPT16H IFI27L2	4903.1359/1		0.209388001	-2.977265556	0.00290832	0.01853438
IFI27L2 IFIT1	3800.921085	-0.623403683				0.01853438
IFIT1 TULP4	3800.921085 3312.381931	-0.553331469	0.185874438 0.183013516	-2.976909984 2 976818914	0.002911695	
IFI27L2 IFIT1	3800.921085		0.185874438 0.183013516 0.150498218	-2.976909984 2.976818914 2.977016784	0.002911695 0.00291256 0.002910681	0.01853438 0.01853438
IFI27L2 IFIT1 TULP4 CD820 HK1 RALBP1	3800.921085 3312.381931 2180.200512 6725.946913 4735.606885	-0.553331469 0.544798096 0.448035722 0.153695147	0.183013516 0.150498218 0.051626524	2.976818914 2.977016784 2.977057801	0.00291256 0.002910681 0.002910291	0.01853438 0.01853438 0.01853438
IFIT1 TULP4 CD320 HK1	3800.921085 3312.381931 2180.200512 6725.946913	-0.553331469 0.544798096 0.448035722	0.183013516 0.150498218	2.976818914 2.977016784	0.00291256 0.002910681	0.01853438 0.01853438
#127L2 #FIT1 TULP4 CD320 HK1 RALBP1 CTHRC1 RPL4 FUT2	3800.921085 3312.381931 2180.200512 6725.946913 4735.606885 533.7300381 40770.12469 23.44431424	-0.553331469 0.544798096 0.448035722 0.153695147 1.079968027 0.290085495 0.756116777	0.183013516 0.150498218 0.051626524 0.362744063 0.097429418 0.25394087	2.976818914 2.977016784 2.977057801 2.977217652 2.977391237 2.977530859	0.00291256 0.002910681 0.002910291 0.002908774 0.002907128 0.002905804	0.01853438 0.01853438 0.01853438 0.01853438 0.01853438 0.01853438
	3800.921085 3312.381931 2180.200512 66725.946933 4735.606885 533.7300381 40770.12469 23.44431242 10910.51119	-0.55331469 0.544798096 0.448035722 0.153695147 1.079968027 0.290085495 0.756116777 0.487604517	0.183013516 0.150498218 0.051626524 0.362744063 0.097429418 0.25394087 0.16385398	2.976818914 2.977016784 2.977057801 2.977217652 2.977391237 2.977303859 2.975847872	0.00291256 0.002910681 0.002910291 0.002907712 0.002907712 0.002905804 0.002921798	0.01853438 0.01853438 0.01853438 0.01853438 0.01853438 0.01853438
IFI27L2 IFIT1 TULP4 C0320 HK1 RALBP1 CTHRC1 RFL4 FUTZ	3800.921085 3312.381931 2180.200512 6725.946913 4735.606885 533.7300381 40770.12469 23.44431424	-0.553331469 0.544798096 0.448035722 0.153695147 1.079968027 0.290085495 0.756116777	0.183013516 0.150498218 0.051626524 0.362744063 0.097429418 0.25394087	2.976818914 2.977016784 2.977057801 2.977217652 2.977391237 2.977530859	0.00291256 0.002910681 0.002910291 0.002908774 0.002907128 0.002905804	0.01853438 0.01853438 0.01853438 0.01853438 0.01853438 0.01853438

ATF4	15758.43658	0.347863263	0.116961541	2.974167928	0.002937842	0.018674615
SYTL4	788.9957998	0.643754267	0.216486774	2.973642484	0.002942877	0.018695032
AFG 3L2 OTX2	2820.156754 1.425652434	0.202585696 -2.356695479	0.068130265 0.792894294	2.97350519 -2.97226944	0.002944194 0.002956071	0.018696953 0.018765911
SNRPD1	2025.266466	-2.336695479 0.346664648	0.792894294	2.972148571	0.002957235	0.018766836
JAKMIP3	1486.558967	-0.769552163	0.258969844	-2.971589857	0.002962622	0.018782377
G N Al1 REX1BD	3619.270584 4260.557804	-0.552434517 0.54954696	0.185906151 0.184932144	-2.971577404 2.971614071	0.002962742	0.018782377 0.018782377
C6orf89	6457.386225	0.158956131	0.053499648	2.971162195	0.002966751	0.018801322
LILRA4	760.7566231	1.186005653	0.399302319	2.970194758	0.00297611	0.018854153
CD40LG SPATA12	9.060806542 38.46322376	-1.10370618 0.909900915	0.371627905 0.306384707	-2.969922782 2.96979873	0.002978746 0.002979949	0.018864369 0.018865505
MEP1B	3.51111873	-1.125972028	0.37922762	-2.969119253	0.002986547	0.018898762
PYM1 HP1R	1072.04098 10995.38069	0.357093304 -0.517700653	0.120272046 0.174381328	2.969046546 -2.968784892	0.002987253	0.018898762 0.018901968
MMP14	6881.95115	0.775642414	0.261266075	2.968783506	0.002989796	0.018901968
U QCR10	5595.682243	0.434071516	0.146229195	2.968432639	0.002993227	0.018917072
ARL6IP4 CNP	9194.59843 82461.60252	0.509523718 -0.752101557	0.17169336 0.253474605	2.967637873 -2.96716729	0.003000977 0.003005574	0.018959547 0.018960427
TMEM177	483.976312	0.325208561	0.109604961	2.967097085	0.00300626	0.018960427
MRPL18 SERPIN B8	2273.835529 1088.346047	0.245455038 0.597437306	0.082720313 0.201333349	2.96728854 2.96740361	0.003004389 0.003003264	0.018960427 0.018960427
SCX	230.2780004	0.666251326	0.224516007	2.96750033	0.003003284	0.018960427
SLC25A37	3015.480236	0.466135669	0.157107571	2.966984115	0.003007365	0.018960906
RN F216 RN ASEH2C	2641.221395 2833.905978	-0.256771286 0.453513721	0.086562859 0.152895933	-2.966298585 2.966159482	0.003014077 0.003015441	0.018996726 0.018998823
SLTM	3780.884722	-0.283860725	0.095710995	-2.965811044	0.003018859	0.019004112
VXN	5416.47018	-0.625922359	0.211046748	-2.96579959	0.003018971	0.019004112
ZNF431 ZBTB9	643.0437137 542.7522853	-0.439181319 0.325348179	0.148083973 0.10972709	-2.965758611 2.965067053	0.003019374 0.00302617	0.019004112 0.019033884
ARL4C	3783.12597	0.615359779	0.207534191	2.965100713	0.003025839	0.019033884
CENPP	280.6029783	-0.478466972 1 985502868	0.161374786	-2.964942562 2.964558725	0.003027394	0.019035091
FGF16 XBP1	3.38426829 2908.178818	0.495938353	0.669746513 0.167302712	2.964317471	0.003031174 0.003033551	0.019052354 0.019060798
MAN 1C1	4611.149982	-0.646166103	0.218010594	-2.963920656	0.003037466	0.019072388
POPDC2 SMCO4	185.6469121 483.442296	0.619068736 0.635830007	0.208861002 0.214556867	2.964022623 2.963456806	0.00303646 0.003042048	0.019072388 0.01909465
TOMM6	483.44229b 4224.203833	0.635830007	0.214556867 0.130943565	2.9620104 2.9620104	0.003056375	0.01909465
CACFD1	1661.244466	0.425406938	0.143631565	2.961792823	0.003058535	0.019185073
PLXNB2 NUDT6	10101.28372 379.1430769	0.419544125 -0.257745121	0.1416588 0.087040959	2.961652393 -2.961193483	0.00305993 0.003064494	0.019187293 0.019209371
ATP5F1E	16670.63913	0.545933009	0.184376725	2.960964882	0.003066769	0.019210567
AN KRD37 MRPS 21	252.019616 4011 157252	0.524984879 0.362510685	0.177301266 0.122445403	2.960976483 2.960590395	0.003066654 0.0030705	0.019210567
MAGEC3	4011.157252 51.56491689	-1.122226595	0.122445403 0.379152638	-2.959827999	0.0030705	0.019227402
RGCC	5747.754737	-0.56096442	0.189539251	-2.959621381	0.003080173	0.019274878
AOX1 GJC3	167.8899242 32.42809584	0.874963513 1.030480858	0.295653243 0.348260161	2.959424716 2.95893982	0.00308214 0.003086994	0.019280637 0.019304448
DN PH1	1678.265324	0.42250991	0.142812836	2.958486947	0.003091533	0.019326278
PPP1R7	3558.941565 1947.958935	0.390437936 -0.195525735	0.131981635 0.066103208	2.958274742 -2.957885735	0.003093663 0.003097569	0.019333031
FYB1	1614.396382	-0.195325735 -0.748079157	0.252911066	-2.957883735	0.003097684	0.019345039
PAIP2B	9710.61987	-1.042429679	0.352451565	-2.957653711	0.003099902	0.019352332
ADAM12 C21orf91	574.6995972 1560.008591	-0.879404309 -0.734893474	0.29736561 0.248503083	-2.957316779 -2.957281119	0.003103291 0.00310365	0.019357657 0.019357657
RFTN1	2067.001885	-0.485538739	0.16418902	-2.957193713	0.00310453	0.019357657
S100A5 MCF2I	4.059464902 5324.908519	1.685558425 -0.592683011	0.569993951 0.200466808	2.957151427	0.003104956 0.003111377	0.019357657 0.019388793
MCF2L SOD8	5324.908519 2231.41344	-0.592683011 0.668360203	0.200466808	-2.956514434 2.956447277	0.003111377 0.003112054	0.019388793 0.019388793
TCFL5	2012.977121	-0.603997777	0.204312723	-2.956241625	0.00311413	0.019395169
RPL10L SERPIN A11	1.995005317 0.929649168	-3.26300717 -2.324792066	1.104063118 0.787297154	-2.955453466 -2.952877519	0.003122098 0.003148269	0.019438224 0.019594542
TJP1	7638.473571	-0.491966776	0.166632213	-2.952410984	0.00314303	0.01961755
POLR3K	588.1318431	0.316150251	0.107097179	2.951994194	0.003157289	0.019637419
PRPF38B ABCA9	2372.62838 375.2875706	-0.306346131 -0.797103586	0.103790306 0.270125442	-2.95158713 -2.950864537	0.003161453 0.003168859	0.019656688 0.019696086
COAS	2009.161384	-0.284578462	0.096445853	-2.950655236	0.003171007	0.019702791
RPF1 TWNK	1321.308782 419.8988874	0.251713272 0.45972286	0.085315859 0.155842792	2.950369083 2.949914166	0.003173945 0.003178622	0.019714404 0.019736802
VGLL4	3406.125724	0.260290445	0.088242525	2.94971665	0.003180655	0.019742771
GPATCHB	1013.032763	0.392289412	0.13299914	2.949563523	0.003182231	0.019745907
DBP OTUD1	1334.845695 738.4417792	-0.588241882 0.392060609	0.19946579 0.132941903	-2.949086563 2.949112361	0.003187147 0.003186881	0.019763099
NAGLU	3217.883448	0.506327668	0.171711664			0.019763099
DPYD SDC1	1040.654264 1809.752006	-0.708410212		2.948708638	0.003191047	0.019780625
MRC1		1 229000420	0.240262344	-2.948486224	0.003193344	0.019780625 0.019788208
CEP57L1	942.1734803	1.328990429 0.967470253				0.019780625
	362.6311001	0.967470253 -0.289646654	0.240262344 0.450869909 0.328315301 0.0983002	-2.948486224 2.947613943 2.946771747 -2.946552043	0.003193344 0.003202367 0.003211101 0.003213383	0.019780625 0.019788208 0.019837453 0.019884875 0.019892322
TRRAP THOCS		0.967470253	0.240262344 0.450869909 0.328315301	-2.948486224 2.947613943 2.946771747 -2.946552043 -2.945425375	0.003193344 0.003202367 0.003211101	0.019780625 0.019788208 0.019837453 0.019884875
THOC5 PTGS2	362.6311001 2590.162242 1118.994678 286.2560754	0.967470253 -0.289646654 -0.462013909 0.351281986 1.071766784	0.240262344 0.450869909 0.328315301 0.0983002 0.158658127 0.119270777 0.363923062	-2.948486224 2.947613943 2.946771747 -2.946552043 -2.945425375 2.945247728 2.94503673	0.003193344 0.003202367 0.003211101 0.003213383 0.003225109 0.003226962 0.003229163	0.019780625 0.019788208 0.019837453 0.019884875 0.019892322 0.019962967 0.019962967
THOC5 PTGS2 ZNF605	362.6311001 2590.162242 1118.994678 286.2560754 855.9940009	0.967470253 -0.289646654 -0.462013909 0.351281986 1.071766784 -0.427347717	0.240262344 0.450869909 0.328315301 0.0983002 0.156858127 0.119270777 0.363923062 0.145121762	-2.948486224 2.947613943 2.946771747 -2.946552043 -2.945525375 2.945245728 2.94503673 -2.944752805	0.003193344 0.00320367 0.003211101 0.00321383 0.003225109 0.00322965 0.003229163	0.019780625 0.019780625 0.01978208 0.019837453 0.019882375 0.019892322 0.019995207 0.019962967 0.019969881
THOC5 PTGS2	362.6311001 2590.162242 1118.994678 286.2560754	0.967470253 -0.289646654 -0.462013909 0.351281986 1.071766784	0.240262344 0.450869909 0.328315301 0.0983002 0.158658127 0.119270777 0.363923062	-2.948486224 2.947613943 2.946771747 -2.946552043 -2.945425375 2.945247728 2.94503673	0.003193344 0.003202367 0.003211101 0.003213383 0.003225109 0.003226962 0.003229163	0.019780625 0.019788208 0.019837453 0.019884875 0.019892322 0.019962967 0.019962967
THOC5 PTG52 ZNF605 NPHP3-ACAD11 AC005324.3 MED15	362.6311001 2590.162242 1118.994578 286.2560754 855.9940009 282.4327645 8.018031781 4564.406296	0.967470253 -0.28964654 -0.462013909 -0.351281986 -1.071766784 -0.427347717 -1.150153409 -1.219980633 -0.265351861	0.240263344 0.450869900 0.328315301 0.0983002 0.156858127 0.119270777 0.3639323062 0.145121762 0.390790323 0.414519962 0.090174937	-2.948485724 2.947613943 2.946771747 -2.946552043 2.945425375 2.94524725 2.945477280 2.9454772805 -2.943146709 2.943146709	0.003193344 0.003203267 0.00321383 0.003223509 0.003225109 0.003225109 0.00322925 0.00322925 0.00323222 0.00323225 0.00324525	0.019780625 0.019780625 0.019837453 0.019843775 0.019843775 0.019892322 0.019853827 0.019863827 0.0198698822 0.0199698822 0.0190698820 0.010073952 0.010073952
THO C5 PTG S2 ZNF605 NPHP3-ACAD11 AC005324.3	362.6311001 2590.162242 1118.994678 286.2560754 855.994009 282.4327645 8.018031781	0.967470253 -0.289646654 -0.462013909 -0.351281986 -1.07176677747 -1.150153409 -1.219980613	0.240262344 0.450869909 0.328315301 0.0983002 0.156858127 0.119270777 0.363923062 0.14512762 0.390790323 0.414519962	-2.948486224 2.947613943 2.94677147 -2.946572043 -2.94552043 -2.945247728 2.945203673 -2.94475280 -2.943116679	0.003193344 0.003202367 0.003211101 0.00321333 0.003225109 0.003229662 0.003229163 0.003232128 0.003249459	0.019780625 0.019780625 0.0197820625 0.019837453 0.019884375 0.019884375 0.019852377 0.019852267 0.019962967 0.019962967 0.019962967 0.019963827 0.019963827 0.019963827 0.019963827 0.019963827 0.019963827
THOCS PTG 52 ZNF605 NPP3-ACAD11 AC005324.3 MEDIS LMF2 CCDC14 SRSFS	362.6311001 2590.162242 1118.994672 286.2560754 855.9940000 282.4327645 8.018031781 4564.406296 4868.331816 2008.845124 12235.29179	0.967470251 -0.289646502 -0.462013909 -0.312121986 -1.071766788 -0.427347717 -1.150153409 -1.219980611 -0.269353861 -0.384324014 -0.514347794 -0.23615754	0.24025244 0.450869909 0.328315301 0.0983002 0.156585127 0.119270777 0.36992302 0.45121702 0.39079022 0.414519907 0.390174937 0.390174937 0.390174937	2.948486252 2.94713943 2.946773747 2.946572033 2.94552575 2.94552575 2.9457269 2.944772805 2.944174705 2.943147105 2.943147105 2.943147105 2.943147105 2.943147105 2.943147105	0.00319384 0.003213101 0.003213101 0.003213101 0.00322662 0.00322662 0.00323266 0.00323266 0.0032488 0.0032466 0.0032466 0.0032567 0.0032567	0.019780625 0.019780625 0.019837433 0.019843773 0.019843773 0.019892322 0.019853207 0.0198
THOCS PTG 52 ZNF605 NPH93-ACAD11 AC005324.3 MED15 LWF2 CC014 SSRF5 PMWI	362.6311001 2590.162243 1118.994078 286.259075 855.994000 282.4327645 8.018017813 4564.406296 4868.351816 2008.851512 2008.85152 12225.29177	0.967470253 0.289646554 0.462013909 0.351281906 1.071766738 1.071766738 1.150153409 1.21599806131 0.265531861 0.384324014 0.5134307994 0.23555554 0.325595137	0.240262346 0.45086990 0.238315301 0.0883002 0.156858127 0.119270777 0.139270077 0.363922005 0.145121762 0.360790323 0.414519962 0.0901743377 0.130613373 0.17480555 0.080273151 0.11200429	2.94848524 2.94761393 2.94673174 2.94652503 2.94652503 2.945247728 2.945247728 2.945124772 2.945124772 2.9451267 2.9451267 2.9451267 2.9451267 2.9451267 2.9451267 2.9451267 2.9451267 2.9451267 2.9451267 2.9451267 2.9451267	0.003193344 0.003103267 0.003221101 0.003221103 0.00322106 0.003226962 0.003224684 0.003232168 0.003232696 0.003232696 0.00323696 0.00325607 0.00325607	0.019780625 0.019780625 0.0197820625 0.019837453 0.019884875 0.019893222 0.019985207 0.019962967 0.019962967 0.019963207 0.019963207 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952
THOCS PTG 52 ZNF605 NPP3-ACAD11 AC005324.3 MEDIS LMF2 CCDC14 SRSFS	362.6311001 2590.162242 1118.994672 286.2560754 855.9940000 282.4327645 8.018031781 4564.406296 4868.331816 2008.845124 12235.29179	0.967470251 -0.289646502 -0.462013909 -0.312121986 -1.071766788 -0.427347717 -1.150153409 -1.219980611 -0.269353861 -0.384324014 -0.514347794 -0.23615754	0.24025244 0.450869909 0.328315301 0.0983002 0.156585127 0.119270777 0.36992302 0.45121702 0.39079022 0.414519907 0.390174937 0.390174937 0.390174937	2.948486252 2.94713943 2.946773747 2.946572033 2.94552575 2.94552575 2.9457269 2.944772805 2.944174705 2.943147105 2.943147105 2.943147105 2.943147105 2.943147105 2.943147105	0.00319384 0.003213101 0.003213101 0.003213101 0.00322662 0.00322662 0.00323266 0.00323266 0.0032488 0.0032466 0.0032466 0.0032567 0.0032567	0.019780625 0.019780625 0.019837433 0.019843773 0.019843773 0.019892322 0.019853207 0.0198
THOCS PTG52 VARIOS NPP3-ACAD11 ACD03324.3 MCD15 LMV2 CCCCL4 SSR55 PMM1 TMEM99 PDL18C ASAN28	362.6311001 2590.162243 1119.94678 286.256075-6 855.9940070 282.4327645 8.01803178: 4564.406739 4868.351816 2008.845124 12235.298738 330.3124000 1109.555022 275.3470791	0.5674702.53 -0.28666656 -0.462613909 -0.331231986 -0.071766786 -0.427347717 -1.190153409 -1.219986613 -0.265315861 -0.384326016 -0.514307999 -0.23651756 -0.3397651683 -0.337651688 -0.337651683 -0.35550569	0.240262340 0.45086990 0.238315301 0.0883027 0.156858127 0.193270777 0.363923026 0.44519267 0.300790323 0.414519267 0.19010633371 0.174801595 0.080235111 0.112901613	2.94848524 2.94761393 2.94673174 2.946525043 2.946525043 2.946525728 2.945247728 2.9451247728 2.9451247728 2.94314705 2.94414705 2.94414705 2.94414705 2.94414705 2.94414705 2.94414705 2.9	0.003193344 0.003203257 0.003221101 0.00321383 0.00322562 0.00322662 0.00322662 0.00324694 0.00324694 0.003246959 0.0032562766 0.0032562766 0.003257669 0.003257669 0.003257766 0.003277765	0.019780625 0.019780625 0.019788205 0.0198437453 0.0198437453 0.01986222 0.01996322 0.019963207 0.0199
THO CS PTG 52 PT	362.6311001 2590.1822.42 1118.994678 288.759075 855.9940000 282.4327645 8.018031731 4564.4062796 4868.351816 2008.8651277 2077.289528 310.0124000	0.967470251 -0.289646552 -0.462013909 -0.331221986 -1.071766788 -0.427347717 -1.150153409 -1.219980613 -0.256515861 -0.384324014 -0.514307999 -0.23651575 -0.235955137 -0.378516881 -0.245626173	0.24025244 0.45086990 0.328315301 0.068300 0.156858127 0.119270777 0.3693200 0.45121762 0.3907903123 0.414519962 0.090174937 0.13063371 0.172090229 0.112090429 0.112090429 0.112090429 0.112090429	2.94848525 2.94673747 2.94677747 2.94657263 2.945247728 2.945247728 2.945247728 2.945247728 2.945247728 2.94524772 2.945147105	0.00319384 0.003213101 0.003213101 0.003213100 0.00322965 0.00322965 0.003234526 0.00324526 0.00325526 0.00325526 0.00325526 0.00325526 0.003277726 0.003277726	0.019780625 0.019780625 0.0197820626 0.019837433 0.019864877 0.019892322 0.019958207 0.019969822 0.019969822 0.019969830 0.020073852 0.020073852 0.020073852 0.020073852 0.020073852
THOCS PTG52 VARIOS NPP93-ACAD1 ACD05324.3 MED15 LW72 CCCC14 SISF5 PWM1 TMEM99 PQ183C ASAND8 STARGB CCR3 ARG1	362.6311001 2590.162243 1118.994678 286.256075-6 855.9940070 282.432745-5 80.18031781 4564.406739 4868.351816 2008.845124 12235.298528 330.3112400 1090.355022 275.3470791 753.0682438 9.3351751646 13.68127868	0.5674702.53 -0.289646654 -0.462013909 -0.351281986 -1.071766786 -0.427347717 -1.150153409 -1.219980613 -0.265313861 -0.38432461 -0.3513107990 -0.23655575 -0.337861661 -0.246563573 -0.357861661 -0.246563573 -0.35850949 -0.485029938 -0.485029938 -0.485029938 -1.488615556 -1.554821748	0.240263246 0.45086990 0.238315301 0.0883002 0.156858127 0.119270777 0.363923062 0.44519962 0.44519962 0.090174937 0.130613377 0.130613371 0.17480555 0.08029161 0.11709179 0.083531118 0.17223201 0.165007088 0.504123485	2.94848524 2.94761393 2.94673737 2.946552043 2.946573737 2.946552043 2.945124728 2.945124728 2.945124728 2.945124728 2.945124728 2.945124728 2.945124728 2.945124728 2.945124728 2.94512536 2.94119386 2.94119386 2.9419396 2.940457556 2.93944955 2.93944955 2.93944955 2.93944955 2.93944955	0.003193344 0.003103267 0.00321101 0.003211101 0.00321101 0.003221101 0.00322662 0.00322662 0.00324694 0.00324695 0.00324696 0.00324696 0.00324696 0.00324696 0.003257766 0.003277766 0.003277766 0.003277766 0.003277766 0.003277766 0.003277766 0.003277766 0.003277766 0.003277766 0.003277766 0.003277766	0.019780625 0.019780625 0.019788205 0.0198437453 0.0198437453 0.0198692222 0.019963227 0.019963227 0.019963227 0.019963227 0.019963227 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952
THOICS PTGS2 201605 NPP93-ACM011 ACM052343 MEDI5 LW2 CCCC14 SISSF5 PMML TWEND9 POLRSC ASANDB CCR3 ASANDB CCCR3 ASANDB CCCCCCR3 ASANDB CCCCR3 ASANDB CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	362.6311001 2590.162242 1118.994678 288.259677-5 855.9940005 282.4327645 8.0.18031781 4564.406279(4898.815181 2008.845124 12235.79179 2077.289528 303.0124004 11090.585072 275.347079) 773.068236 9.33517464 113.68127866 5.0.18602427	0.967470251 -0.289646504 -0.462013909 -0.3312181988 -1.071766784 -0.427347717 -1.130133409 -1.219980613 -0.265351861 -0.384324014 -0.514307994 -0.23615754 -0.329595131 -0.265526173 -0.365029998 -0.485029998 -1.488015556 -1.554821748 -0.845496013	0.24025248 0.450869900 0.328315301 0.0983002 0.156858127 0.119270777 0.36932062 0.145127062 0.36932062 0.145127072 0.309073022 0.414519067 0.090293151 0.112090422 0.114901059 0.080293151 0.112090422 0.114901059 0.083533118 0.172232201 0.150907068 0.506425348 0.53922076 0.287806779	2.94848525 2.94673747 2.94673747 2.94657240 2.945247728 2.945247728 2.945247728 2.945247728 2.945247728 2.945247728 2.941247260 2.94119126 2.94124726 2.94	0.00319384 0.003213101 0.003213101 0.003221305 0.00322506 0.00322662 0.00322662 0.00323128 0.00324925 0.00324925 0.003254326 0.003254326 0.003254326 0.003277279 0.003277279 0.003277279 0.00327720 0.00327720 0.00327720 0.00327720 0.00327720 0.00327720 0.00327720 0.00327720 0.00327720 0.00327720 0.00327720 0.00327720 0.00327720 0.00327720 0.00327720	0.019780625 0.019780625 0.019783705 0.019837453 0.01984375 0.019892322 0.019892322 0.019892322 0.019892322 0.019892322 0.019892320 0.019893310 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952
THOCS PTG52 VARIOS NPP93-ACAD1 ACD05324.3 MED15 LW72 CCCC14 SISF5 PWM1 TMEM99 PQ183C ASAND8 STARGB CCR3 ARG1	362.6311001 2590.162243 1118.994678 286.256075-6 855.9940070 282.432745-5 80.18031781 4564.406739 4868.351816 2008.845124 12235.298528 330.3112400 1090.355022 275.3470791 753.0682438 9.3351751646 13.68127868	0.5674702.53 -0.289646654 -0.462013909 -0.351281986 -1.071766786 -0.427347717 -1.150153409 -1.219980613 -0.265313861 -0.38432461 -0.3513107990 -0.23655575 -0.337861661 -0.246563573 -0.357861661 -0.246563573 -0.35850949 -0.485029938 -0.485029938 -0.485029938 -1.488615556 -1.554821748	0.240263246 0.45086990 0.238315301 0.0883002 0.156858127 0.119270777 0.363923062 0.44519962 0.44519962 0.090174937 0.130613377 0.130613371 0.17480555 0.08029161 0.11709179 0.083531118 0.17223201 0.165007088 0.504123485	2.94848524 2.94761393 2.94673737 2.946552043 2.946573737 2.946552043 2.945124728 2.945124728 2.945124728 2.945124728 2.945124728 2.945124728 2.945124728 2.945124728 2.945124728 2.94512536 2.94119386 2.94119386 2.9419396 2.940457556 2.93944955 2.93944955 2.93944955 2.93944955 2.93944955	0.003193344 0.003103267 0.00321101 0.003211101 0.00321101 0.003221101 0.00322662 0.00322662 0.00324694 0.00324695 0.00324696 0.00324696 0.00324696 0.00324696 0.003257766 0.003277766 0.003277766 0.003277766 0.003277766 0.003277766 0.003277766 0.003277766 0.003277766 0.003277766 0.003277766 0.003277766	0.019780625 0.019780625 0.019788205 0.0198437453 0.0198437453 0.0198692222 0.019963227 0.019963227 0.019963227 0.019963227 0.019963227 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952 0.020073952
THO CS PTG 32 PT	362.6311001 2590.1622.43 1118.994678 288.259675-8 855.9940000 282.4327645 8.018031781 4554.406296 4868.351816 2008.8651279 2079.289928 303.0124004 1090.385003 275.3407997 753.0682.438 9.325171614 13.68127686 50.28600422 1550.810934 2692.47508	0.967470251 -0.289646502 -0.462013909 -0.312121986 -0.427347717 -1.150153409 -1.1219980611 -0.265351861 -0.384324014 -0.514317994 -0.23615754 -0.236515754 -0.236	0.24025244 0.45086990 0.328315301 0.0983002 0.156858127 0.119270777 0.36932062 0.165121762 0.3907903123 0.414519962 0.090174937 0.110013771 0.17405055 0.008533118 0.172232301 0.152090278 0.0550507888 0.506425445 0.552422917 0.152906778 0.152906778 0.152906779	2.948486252 2.94673747 2.94673747 2.946573047 2.946573047 2.945247728 2.945247728 2.945247728 2.945247728 2.945247728 2.945247728 2.94524772 2.94524772 2.94524772 2.94524772 2.9452538 2.94119526 2.94049382 2.94049582	0.00319384 0.003213101 0.003213101 0.003213103 0.00322506 0.00322662 0.00323626 0.00323626 0.0032662 0.0032662 0.0032662 0.00325652 0.003277706 0.003277706 0.003277306 0.003277306 0.003277306 0.003277306 0.003277306 0.003277306 0.003277306 0.003277306 0.003277306 0.003277306 0.003377366 0.003377366 0.003377366	0.019780625 0.019780625 0.0197870625 0.01983743 0.01984377 0.019892322 0.019895327 0.019895327 0.019895327 0.019895327 0.02007852 0.02007852 0.02007852 0.02007852 0.02007852 0.02007852 0.02007852 0.02007852 0.02007852 0.02007852 0.02007852 0.02007852 0.02007852
THO CS PTG 52 PT	362.6311001 2590.162242 1118.994678 286.256075-6 855.9940000 282.4127645 8.018013781 4566.406739 4868.351816 2008.845124 1223.298728 303.0124000 11090.585022 275.340739] 753.0682248 9.325171616 113.68127866 50.28607422 1550.819034	0.9674702.53 -0.289646650 -0.462013909 -0.3312181968 -1.0217166786 -0.427347717 -1.150153409 -1.129936013 -0.265351861 -0.384324013 -0.514307994 -0.21451775 -0.32995137 -0.337861683 -0.2456527439 -0.485012995 -1.488615506 -1.548821748 -0.845459015 -0.085459015 -0.08550249 -0.48502995 -1.54861748 -0.845459015 -0.085635049 -0.48502995 -1.54861748 -0.845459015 -0.085635049 -0.48502995 -1.54861748 -0.845459015 -0.085635049 -0.48502995 -1.54861748 -0.845459015 -0.085635049 -0.48502955 -1.54861748 -0.845459015 -0.085635049 -0.420327485 -0.420327485	0.24025244 0.450869909 0.328313501 0.0983007 0.156858127 0.119270777 0.369923062 0.165127662 0.390730022 0.414519962 0.090174937 0.130613371 0.17480755 0.090293161 0.112901699 0.116901699 0.088533181 0.172232001 0.165007068 0.5064253468 0.5064253469 0.248786779 0.115901679	2.94848525 2.9467324 2.9467324 2.9467324 2.9467324 2.94652375 2.9452375 2.9452375 2.9452375 2.945247728 2.945247728 2.945247728 2.945247728 2.945247728 2.945247728 2.945247728 2.94524772 2.94524772 2.94524772 2.94524772 2.94524772 2.94524772 2.9452475 2.94	0.00318784 0.003213101 0.003213101 0.003221602 0.00322662 0.00322662 0.00322662 0.00322662 0.00322662 0.00322662 0.0032662 0.0032662 0.0032662 0.0032662 0.00326620 0.00326620 0.00326620 0.003277779 0.003277779 0.003277720 0.003277720 0.003277720 0.003277720 0.003277720 0.003277720 0.003277720 0.003277720 0.003277720 0.003277720 0.003277720 0.003277720 0.003277720	0.019780625 0.019780625 0.0198437453 0.0198437453 0.0198437453 0.0198693222 0.019869322 0.019869322 0.019869322 0.019869322 0.019869322 0.019869323 0.019869323 0.019869323 0.019869323 0.01986932 0.01996932
THOICS PTGS2 27KF05 NPP93-ACAD11 ACAD0523-A3 MCD15 LWF2 CCCCC14 STR655 PWMI TMEM89 POLISIC ACAPORE STAROB CCCC CCCCA AGG 1 CLTRN MRPL47 CPF2 STEDIL AC116366.3	362.6311001 2590.162234 1118.994678 286.259075 855.994075 855.994075 851.994076 486.8351316 2008.845122 12235.29179 2079.289528 303.012400 1090.580523 275.3470791 753.0622438 9.325171616 13.6812786 50.28607427 1553.819034 2692.474559 31653.189034	0.9674702.51 -0.289646654 -0.42013909 -0.312121908 -1.071766786 -0.427347717 -1.150153409 -1.219980613 -0.26531981 -0.26531981 -0.384324014 -0.514307990 -0.236562617 -0.26562617 -0.56569699 -0.485029993 -0.485029993 -0.485029935 -1.488615566 -1.554821748 -0.845499015 -0.3845499015	0.240252440 0.450869900 0.328315301 0.0083002 0.156858127 0.119270777 0.36932002 0.148151962 0.009174937 0.119217762 0.009174937 0.1100174937 0.1100174937 0.1100174937 0.1100174937 0.1100174937 0.1100174937 0.1100174937 0.1100174937 0.1100174937 0.1100174937 0.1100174937 0.1100174937 0.1100174937 0.1100174937 0.1100174937 0.1100174937 0.100174937 0.100174937 0.100174937 0.100174937 0.100174937 0.100174937 0.100174937 0.100174937 0.100174937 0.100174937 0.100174937 0.100174937 0.100174937 0.100174937 0.100174937 0.100174937	2.948486224 2.94761391 2.9476179147 2.94652301 2.94652701 2.94525015 2.94512712 2.945247728 2.94512772 2.94512772 2.94512772 2.94512772 2.94512772 2.94512772 2.94512772 2.94512772 2.94512772 2.94512772 2.94512750 2.94512750 2.94512750 2.94512750 2.94512750 2.94512750 2.94512750 2.94512750 2.93549555 2.93549555 2.93547563 2.93549555 2.9354955 2.935495	0.00319384 0.003202367 0.003211101 0.00321383 0.00322562 0.003224684 0.003224682 0.003224686 0.003224689 0.00325602 0.00325602 0.003277469 0.003277469 0.003277469 0.003277469 0.003277469 0.003377469 0.003377469 0.003377469 0.003377469 0.003377469 0.003377469 0.003377469 0.003377469 0.003377469	0.019780625 0.019780625 0.019788207 0.0198437453 0.0198437453 0.019843725 0.019863272 0.01996327 0.
THO LCS PTG S2 P	362.6311001 2590.162234 1118.994678 288.259075 885.5994000 282.4327445 8.01801781 4564.406296 4868.351816 2008.851522 12235.29177 2079.289528 330.0124001 1009.580723 275.3470791 753.0622438 9.335171614 13.6812786 50.2860242 14559.310534161 1463.962288	0.96470235 -0.289646654 -0.462013909 -0.331231986 -1.071766786 -0.427347717 -1.150153409 -1.2199306131 -0.265315861 -0.384324014 -0.514307994 -0.236515752 -0.3397861683 -0.246551273 -0.357861683 -0.465029596 -1.486612556 -1.554812748 -0.845599013 -0.926033 -0.4451029596 -0.4916000959 -0.4004272466 -0.4916000959 -0.4004272466 -0.400427266	0.240052344 0.450869909 0.328313501 0.0983007 0.158583127 0.119270777 0.369923062 0.165127262 0.3070902323 0.414519962 0.090174937 0.1306133731 0.1740379 0.13061379 0.13061379 0.13061379 0.13061379 0.13061379 0.13061379 0.13061379 0.13061379 0.13061379 0.13061379 0.13061379 0.13061379 0.13061379 0.1506125388 0.52061278 0.287806779 0.15059851 0.1483131639 0.167442541 0.129414164 0.1394161860 0.139461086	2-948486252 2-94673243 2-94673243 2-94652375 2-94523775 2-9452375 2-943121057 2-943121057 2-943121057 2-943121057 2-94042758 2-94042758 2-94042758 2-94042758 2-94042758 2-94042758 2-94042752 2-94042758 2-94042752 2-94042758 2-94042752 2-94042	0.003191848 0.00317777 0.00321101 0.003221801 0.00322662 0.003229682 0.003229682 0.003229682 0.003229682 0.003229780 0.003229682 0.003229780 0.003229780 0.003229780 0.003297779 0.003277779 0.003277779 0.003277779 0.003377766 0.003327776 0.003336484 0.003337756 0.003317786 0.003317786 0.003317786 0.003317786 0.00331786	0.019780625 0.019780625 0.019788205 0.0198437453 0.0198437453 0.0198692222 0.019969822 0.0199682392 0.0199682392 0.0199682392 0.0199682392 0.0199682392 0.0199682392 0.0199682392 0.0199682392 0.0199682392 0.0199682392 0.0199682392 0.0199682392 0.0199682392 0.0199682392 0.0199682392 0.0199682392 0.0199682392 0.0199682392 0.0199682392
THO CS PTG 32 PT	362.6311001 2590.1822.43 1118.994678 288.259075- 855.9940000 282.4327645 8.018031781 4564.406296 4868.351816 2008.885123 303.0124004 1090.585023 275.340799) 753.0822.68 9.325171614 13.6812766 502.88602422 1550.819034 2692.474550 31653.1666]	0.967470251 -0.289646502 -0.462013909 -0.312121986 -0.107166788 -0.427347717 -1.150153409 -1.1219980611 -0.265351861 -0.384324014 -0.514317994 -0.23615754 -0.236515754 -0.236	0.240252440 0.450869900 0.328315301 0.0083002 0.156858127 0.119270777 0.36932002 0.148151962 0.009174937 0.119217762 0.009174937 0.1100174937 0.1100174937 0.1100174937 0.1100174937 0.1100174937 0.1100174937 0.1100174937 0.1100174937 0.1100174937 0.1100174937 0.1100174937 0.1100174937 0.1100174937 0.1100174937 0.1100174937 0.1100174937 0.100174937 0.100174937 0.100174937 0.100174937 0.100174937 0.100174937 0.100174937 0.100174937 0.100174937 0.100174937 0.100174937 0.100174937 0.100174937 0.100174937 0.100174937 0.100174937	2.94848525 2.94673747 2.94657303 2.94657372 2.945247728 2.945247728 2.945247728 2.945247728 2.945247728 2.945247728 2.945247728 2.945247728 2.94524728 2.9	0.00319384 0.00322130 0.00321310 0.00322136 0.00322662 0.00322662 0.00322662 0.00324864 0.00324896 0.00324896 0.00324896 0.00324896 0.00324896 0.00324896 0.00324896 0.00324896 0.00324896 0.00324896 0.00327779 0.00327779 0.00327779 0.00327779 0.00327779 0.00327779 0.00327779 0.00337716 0.003317766 0.003317766 0.003317766 0.003317766	0.0197806215 0.0197806215 0.019780706216 0.019837451 0.019848273 0.0198693222 0.0199693222 0.019969322 0.019969323 0.020073952
THOICS PTGS2 2014000 NPP93-ACM11 ACM05124 3 MC015 LMV2 CCCC14 SISS15 PMM1 TMEN99 POLISIC ASAMOB STANOS CCR3 AMG 1 GLTEN MPP1, T STANOS CCR5 STPBN1 ACLISS63 PM. MPP1, T CCCCC65 PMM2 STROS CCCC65 STPBN1 ACLISS63 PM. MPP1, T CCCCC65 PMP1 D.ECCL STGCCCCCCC65 PMR1 D.ECCL STGCCCCCCCC65 PMR1 D.ECCL STGCCCCCCCC65 PMR1 D.ECCL STGCCCCCCCC65 PMR1 D.ECCL STGCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	362.6311001 2590.16224 1118.984678 286.259075-2 855.9940005 282.4327645 8.0.18013781 4.564.406259 4.868.351162 12235.79179 2070.289528 303.0124004 1090.355023 275.347079) 753.068248 9.32517645 50.2860242 1550.819034 168.417866 50.2860242 1550.819034 2692.474559 31633.16661 1463.93251 9.4.96609602 300.5534561 318.5119846 318.5119846 318.5119846 318.5119846 318.5119846 318.5119846	0.9674702.53 -0.289646654 -0.462013909 -0.3312181986 -0.427347717 -1.150133409 -1.129936013 -0.265351861 -0.3884324013 -0.3884324013 -0.3184307994 -0.23551717 -0.337861683 -0.24552748 -0.4502952 -1.488615556 -0.329531801 -0.48502958	0.24025244.0 0.450869909 0.328313501 0.0983002 0.156858127 0.119270777 0.389923062 0.14512762 0.39073022 0.30073022 0.30073022 0.30073022 0.30073022 0.30073022 0.30073022 0.30073022 0.30073022 0.30073022 0.30073022 0.30073022 0.30073022 0.30073022 0.30073023 0.3007302 0.30073	2.94848525 2.94673247 2.94673247 2.94652375 2.94524778 2.94524778 2.94524778 2.94524778 2.943147105 2.943147105 2.943147105 2.943147105 2.94045932 2.94045932 2.94045932 2.94045932 2.94045932 2.94045932 2.93946732 2.93946	0.003191834 0.003193444 0.003317441 0.003317441 0.003317441 0.003317441 0.003317441 0.003317441 0.003317441 0.003317441 0.003317441 0.003317746 0.003317746	0.019780625 0.019780625 0.01978070 0.019837453 0.019837453 0.019862322 0.019862322 0.019862322 0.019862532
THOICS PTGS12 PTGS12 PTGS12 NPP93-ACIO11 AC00532A.3 MED15 LWT2 CCCC14 STRST5 PJMMI THEMP39 POLRSIC ASAVOB STARCE CCUB ARG11 CTRN MP91-A7 CUP72 CVP72 VP72 MP91 AC116366.3 PJM MP1 AC116366.3 PJM MP1 AC11636.3 PJM MP1 AC11636.3 MP1 AC11636.3 MP1 BECC1 STMG1	362.6311001 2590.1822.43 1118.994678 288.25907-5 855.9940000 282.4327645 8.018031781 4554.4067396 4868.351816 2008.845124 1225.32177 2079.289522 303.0124000 1090.585023 275.3470791 753.66825 275.3470791 753.66825 275.3470791 13.68127868 50.28602.427 1550.819034 2692.474559 3165.316661 1665.9822.87	0.96747025. 0.286746054 0.4862013909 0.331231988 1.071766784 0.427347717 -1.139133409 -1.219980613 0.265315813 0.265315813 0.384324014 0.3137651883 0.245635173 0.337651883 0.245636173 0.556350049 0.485029993 0.485029993 0.49502993 0.4950295 0.4950295	0.24025244 0.450869909 0.328315301 0.0983002 0.156858127 0.119270777 0.36932002 0.1615127762 0.3907903123 0.414519962 0.090179937 0.119017937	2.94848525 2.94673947 2.94673947 2.946525375 2.945267728 2.945267728 2.945267728 2.945267728 2.945267728 2.94526772	0.00319384 0.003221361 0.003211301 0.00321383 0.00322662 0.003222662 0.003227662 0.003227662 0.003227662 0.003227662 0.00327662 0.003277669 0.003277669 0.003277669 0.003277766 0.003377669 0.003377766 0.003377766 0.00337776	0.019780622 0.019780620 0.019837453 0.019847853 0.019847853 0.019847853 0.019847853 0.019867853
THOICS PTGS2 PTGS2 PTGS2 PTGS2 NPP93-ACM011 ACM05234 3 MED15 LWF2 CCCC14 SISSF5 PMM1 THEM99 POLIKIC ASANGB STAKEB CCR ASANGB CCR ASA	362.6311001 2590.1622.43 1118.994678 288.259075-8 855.9940000 282.4327645 8.018031781 4554.4062796 4868.351816 2008.865123 1203.35177 2072.289528 303.0124000 1090.385023 275.3407979 753.0682438 9.325171616 11.66117865 50.26602422 1550.81093 2692.474555 2692.47455 2692.4745	0.967470251 -0.289646504 -0.46013909 -0.312121988 -1.071766784 -0.427347717 -1.1105133400 -1.219980613 -0.265351861 -0.384324014 -0.514307994 -0.33455751 -0.335957517 -0.335957517 -0.348501575 -0.48	0.24025244. 0.450869909 0.328313501 0.0983002 0.156858127 0.119270777 0.389923062 0.14512762 0.390730022 0.34513902 0.345	2.948486252 2.946731943 2.94673747 2.946573043 2.94657317 2.9465267 2.9465267 2.9465267 2.9465267 2.9465267 2.9465267 2.9465267 2.9465267 2.9465267 2.9465267 2.9465267 2.9465267 2.9465267 2.94664556 2.939646556 2.939665656 2.939665656 2.939665656 2.939665656 2.939665656 2.939665656 2.939665656 2.939665656 2.939665766 2.939667766	0.00319184 0.003193184 0.003211101 0.003211101 0.003121881 0.00322962 0.00322962 0.00323952 0.003239526 0.00326926 0.00326926 0.00327729 0.00337421 0.00337427 0.00337427 0.00337421 0.00337427 0.00337427	0.019780625 0.019780625 0.0197870625 0.019837453 0.019848757 0.019892322 0.019862627 0.019
THOICS PTOSE PTOSE PTOSE STREEP NPPRIACHOII ACDOSSEA LWE CCCCLE STREE CCCCLE STREEP PWM THERMOP POLINIC ASAMOB STREEP CCRB AMGI CCTR AMRHAT COPPE STREEP MPM ACTION M	362.6311001 2590.1622.43 1118.994678 288.25907-5 855.9940000 282.4327645 8.018031781 4564.406296 4868.351816 2008.885123 303.0124004 1009.385003 275.340797) 753.0822.68 9.325171614 13.6812766 502.88602422 1550.819034 2692.474550 31653.41661 1463.992228 2940.31512 94.9660902 3005.534561 138157.45453 1105.571934	0.967470251 -0.289646504 -0.46013909 -0.351219188 -1.071766784 -0.427347717 -1.150153409 -1.219980613 -0.265351861 -0.384324014 -0.514307994 -0.23615754 -0.339595137 -0.378561683 -0.245526173 -0.506350909 -0.480529958 -1.488615566 -1.554821748 -0.84459015 -0.39026033 -0.47027488 -0.491690994 -0.351027488 -0.491690994 -0.45153127 -0.491690994 -0.45153127 -0.491690994 -0.45153127 -0.491690994 -0.45153127 -0.491690994 -0.45153127 -0.491690994 -0.4516312 -0.45164184 -0.54610916 -0.735788396 -0.4256744 -0.524610916 -0.735788396 -0.4256744 -0.524610916 -0.735788396 -0.4256748 -0.524610916 -0.735788396 -0.4256748 -0.524610916 -0.735788396 -0.4256748 -0.524610916 -0.735788396 -0.4256748 -0.524610916 -0.735788396 -0.4256748 -0.524610916 -0.735788396 -0.4256748 -0.524610916 -0.735788396 -0.4256748 -0.524610916 -0.735788396 -0.4255748 -0.524610916 -0.735788396 -0.4255748 -0.524610916 -0.735788396 -0.4255748 -0.524610916 -0.735788396 -0.4255748 -0.524610916 -0.735788396 -0.4255748 -0.524610916 -0.735788396 -0.4255748 -0.524510916 -0.735788396 -0.4255748 -0.524510916 -0.735788396 -0.4255748 -0.524510916 -0.735788396 -0.4255748 -0.524510916 -0.735788396 -0.4255748 -0.524510916 -0.735788396 -0.4255748 -0.524510916 -0.735788396 -0.4255748 -0.524510916 -0.735788396 -0.4255748 -0.524510916 -0.735788396 -0.4255748 -0.524510916 -0.735788396 -0.4255748 -0.524510916 -0.735788396 -0.4255748 -0.524510916 -0.735788396 -0.4255748 -0.524510916 -0.735788396 -0.4255748 -0.524510916 -0.735788396 -0.4255748 -0.524510916 -0.735788396 -0.4255748 -0.524510916 -0.735788396 -0.4255748 -0.524510916 -0.735788396 -0.4255748 -0.524510916 -0.735788396 -0.4255748 -0.524510916 -0.735788396 -0.4357848 -0.524510916 -0.735788396 -0.4357848 -0.524510916 -0.735788396 -0.4357848 -0.524510916 -0.735788396 -0.4357848 -0.524510916 -0.735788596 -0.4357848 -0.524510916 -0.735788596	0.24025244 0.430869909 0.328315301 0.0983002 0.156858127 0.119270777 0.36932062 0.165121762 0.3907903123 0.414519962 0.090174937 0.1130013771 0.113005375 0.008253118 0.112203161 0.112000429 0.114501055 0.088533118 0.172233201 0.150507088 0.506425348 0.55229797 0.10520851 0.143131610 0.167442541 0.122944161 0.139461086 0.1567442541 0.122944161 0.139461086 0.05557849 0.178795909 0.147679590 0.178799590 0.178799590 0.148557344 0.112797950	2.94848525 2.94673734 2.94673734 2.94657303 2.945247728 2.945247728 2.945247728 2.945247728 2.945247728 2.94524772 2.945247728 2.94524772 2.94524736 2.9452472 2.946272 2.946272 2.	0.003193848 0.00319384 0.003221101 0.003211101 0.00321101 0.00322662 0.00322662 0.00322662 0.00323684 0.00324894 0.00324894 0.00324894 0.00324894 0.00324894 0.00324894 0.00324894 0.00324894 0.00324894 0.00324894 0.00327779 0.00327779 0.00327779 0.00327779 0.00327779 0.00327779 0.00337716 0.003317846 0.003317866 0.003317866 0.003317864 0.003317864 0.003317864 0.003317864 0.003317864 0.003317864 0.003317864 0.003317864 0.003317864 0.003317864 0.003317864	0.019780625 0.019780625 0.019780625 0.019837453 0.019843775 0.019892122 0.019893722 0.01996322 0.01996322 0.01996322 0.01996322 0.02996332 0.020063536 0.020063536 0.020063536 0.020063536 0.020063536 0.020053536 0.020053536 0.020053536 0.020053536 0.020053536 0.020053536 0.020053536 0.020053536 0.020053536 0.020053536 0.020053536 0.020053536 0.020053536 0.020053536 0.020053536 0.020053536
THOICS PTGS2 2014605 NPP93-ACM011 ACM05324.3 ME015 LMF2 CCCC14 SISSES PMM1 SISSES PMM1 SISSES PMM1 CCCC3 ASAMD SISSES CO3 ASAMD MP1 CCCC6 SISSES STENI ACM1666.3 PM CCCC6 SISSES	362.6311001 2590.16224 1118.994678 286.2590752 855.9940005 282.4327645 8.0.18031781 4564.4062796 4868.351814 12235.29179 2070.289528 30.0124004 11090.385022 275.347079) 753.0682436 9.32517164 13.68117865 50.28602427 1550.819034 2692.474559 31653.16661 1465.982732 94.986600982 300.5534361 318.5219646 1266.548371 106.991133 34.74954709	0.9674702.55 -0.289646654 -0.462013909 -0.3312181986 -0.427347717 -1.150133409 -1.129980613 -0.265351861 -0.384324014 -0.5143407994 -0.23655754 -0.23595717 -0.335786183 -0.24562748	0.24025244 0.450869909 0.328315301 0.0983002 0.156858127 0.119270777 0.369923062 0.161212762 0.309730022 0.309730022 0.309730022 0.30973002 0.3	2.94848525 2.94673747 2.94673747 2.94673747 2.94673747 2.94673747 2.94673747 2.94673747 2.94673747 2.94673747 2.94673747 2.94673747 2.94673747 2.94673747 2.94673747 2.94673747 2.9467374 2.9467374 2.9467374 2.9467374 2.9467374 2.9467374 2.9467374 2.9467374 2.9467374 2.9467374 2.9366774 2.9366774 2.9366774 2.9366774 2.9366774 2.9366774 2.9366774 2.936774 2.936774 2.936774 2.936774 2.936774 2.936774 2.936774 2.936774 2.936774 2.936774 2.936774 2.936774 2.936774	0.003191834 0.003193489 0.00322160 0.00322180 0.00322662 0.00322662 0.00322662 0.00322662 0.00322662 0.00322662 0.003266266 0.003266266 0.003266266 0.003266266 0.003266266 0.003266266 0.003266266 0.003266266 0.003266266 0.003366266 0.003366266 0.00331786 0.00331786 0.00331786 0.00331786 0.00331786	0.019780625 0.019780625 0.019787807 0.019847873 0.019847873 0.019847873 0.019869222 0.019869222 0.019869222 0.01986922 0.01986922 0.01986922 0.01986922 0.01986922 0.02007392 0.02007392 0.02007392 0.02007392 0.02007392 0.02007392 0.02007392 0.02007392 0.02007392 0.02007392 0.02007392 0.02007392 0.02007392 0.02007392 0.02007392 0.02007392 0.02007392 0.02007392 0.0200739399
THOICS PTOS2 PTOS2 PTOS2 PTOS2 NPP3-ACXO11 ACXO523A.3 MED15 LWF2 CCCCL14 STRSF5 PMM1 TWEMP9 POLRSC ACANOB STARCE CCR3 ARG1 CCTR MPP,47 COPT2 OPT5 COPT2 COPT5 CCCCC65 MPP1 CCCCC65 MP1 CCCCC65 MP1 CCCCC65 MP1 CCCCC65 MP1 CCCCC65 MP2 CCCCCC65 MP2 CCCCCC65 MP1 CCCCC65 MP2 CCCCCC65 MP2 CCCCCC65 MP2 CCCCCC65 MP2 CCCCCC65 MP2 CCCCCCC65 MP2 CCCCCCCCC65 MP3 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	362.6311001 2590.1622.43 1118.994678 288.25907.5 855.9940000 282.4327645 8.018031781 4554.4067396 4868.351816 2008.845124 1223.321792 2079.289522 303.0124000 1009.585023 275.347079) 753.66245 1305.35171614 13.68127786 50.28620422 1550.819014 2692.474559 3165.314661 1465.9922.85 2940.332512 94.9669032 3005.534361 138.5219844 1265.634837 1061.971133 34.7494709 1557.445543 1105.5794379 282.6319344 2280.251311	0.9674702.5 0.28674025.5 0.28674025.5 0.28674605.6 0.427347717 0.130132409.6 0.26531881 0.26531881 0.26531881 0.384324016 0.513430799 0.26531881 0.384324016 0.384324016 0.384324016 0.384324018 0.384324016 0.384	0.24025244 0.450869907 0.328315301 0.0983002 0.156858127 0.119270777 0.36932062 0.16512762 0.390790323 0.414551962 0.090174937 0.1190174937	2.948485257 2.94673734 2.94673734 2.94657303 2.945247728 2.945247728 2.945247728 2.945247728 2.945247728 2.945247728 2.9452473 2.9452473 2.9452473 2.946273 2.94627	0.003193464 0.003193464 0.003202367 0.003211101 0.00321328 0.00322662 0.00322662 0.00322662 0.00322662 0.00322662 0.00322662 0.00322662 0.00322662 0.00326626 0.00327720 0.00326626 0.00327720 0.00327720 0.00327720 0.00327720 0.003365261 0.00336617 0.00337726 0.00336617 0.003317866 0.003317866 0.003317866 0.003317866 0.003317866 0.003317866 0.003317866 0.003337616 0.003317866 0.003337616 0.003317866 0.003337616 0.003337616 0.003337616 0.003337616 0.003337616 0.003337616 0.003337616 0.003337616 0.003337616	0.019780625 0.019780625 0.019780625 0.019837453 0.0198437453 0.019843725 0.019863222 0.019863222 0.019863222 0.019863222 0.019863222 0.019863222 0.0198632 0.01986322 0.01986322 0.01986322 0.01986322 0.01986322 0.01986322 0.01986322 0.01986322 0.01986322 0.01986322 0.01986322 0.0198632 0.01986322 0.0198632
THOCS PTGS2 ZERFGS NEPE3-ACROIT ACCOSSISS LMF2 CCCC14 SSSES PRAMI TREASS FORM TREASS TREAST TREASS TREAST TREASS TREASS TREASS TREASS TREASS TREAST T	362.6311001 2590.16224 21118.994678 286.259075-2 855.9940005 282.4327645 8.0.18031731 4564.406279; 4868.351342 12235.29179 2079.289528 30.0124004 1090.385022 275.347079) 753.0682436 9.32517164 13.68117865 50.28602427 1550.819034 2692.474559 31653.16661 318.5319646 1265.634837 1361.91333 34.74954700 1517.445543 1105.59723 2826.193345 1256.259723 2826.193345 1256.259723 2826.193345 2826.25111	0.96470253 -0.289646654 -0.462013909 -0.3312181968 -1.071766786 -0.427347717 -1.150133409 -1.129936013 -0.265351861 -0.384320413 -0.348307994 -0.21615756 -0.32995137 -0.337861683 -0.245657247 -0.53650249 -0.485029953 -1.488615506 -0.485029953 -1.488615506 -0.485029953 -1.488615506 -0.485029953 -0.585029953 -0.585029	0.240252340 0.450869909 0.328313501 0.0983002 0.156858127 0.119270777 0.389923062 0.145127962 0.390730022 0.34513963 0.390730022 0.34513963 0.390730022 0.34513963 0.390730023 0.119603397 0.11960397	2.94848525 2.94673247 2.94673247 2.946572477 2.946524772 2.94524772 2.94524772 2.94524772 2.945147100	0.003191834 0.003191814 0.003191815 0.003211101 0.003211101 0.00322662 0.00322662 0.00322662 0.00322662 0.00322662 0.00326626 0.00326626 0.00326626 0.00326626 0.003277779 0.00326626 0.003277779 0.003277779 0.003277779 0.003277779 0.003376716 0.00337716	0.019780625 0.019780625 0.019788207 0.019843743 0.019843743 0.019843743 0.019869222 0.019969822 0.019969822 0.019969822 0.019969822 0.019969822 0.019969822 0.020073952
THOCS PTOS2 PTOS3	362.6311001 2590.1622.43 1118.994678 288.25907.5 855.9940000 282.4327645 8.018031781 4554.4067396 4868.351816 2008.845124 1223.321792 2079.289522 303.0124000 1009.585023 275.347079) 753.66245 1305.35171614 13.68127786 50.28620422 1550.819014 2692.474559 3165.314661 1465.9922.85 2940.332512 94.9669032 3005.534361 138.5219844 1265.634837 1061.971133 34.7494709 1557.445543 1105.5794379 282.6319344 2280.251311	0.9674702.5 0.28674025.5 0.28674025.5 0.28674605.6 0.427347717 0.130132409.6 0.26531881 0.26531881 0.26531881 0.384324016 0.513430799 0.26531881 0.384324016 0.384324016 0.384324016 0.384324018 0.384324016 0.384	0.24025244 0.450869907 0.328315301 0.0983002 0.156858127 0.119270777 0.36932062 0.16512762 0.390790323 0.414551962 0.090174937 0.1190174937	2.948485257 2.94673734 2.94673734 2.94657303 2.945247728 2.945247728 2.945247728 2.945247728 2.945247728 2.945247728 2.9452473 2.9452473 2.9452473 2.946273 2.94627	0.003193464 0.003193464 0.003202367 0.003211101 0.00321328 0.00322662 0.00322662 0.00322662 0.00322662 0.00322662 0.00322662 0.00322662 0.00322662 0.00326626 0.00327720 0.00326626 0.00327720 0.00327720 0.00327720 0.00327720 0.003365261 0.00336617 0.00337726 0.00336617 0.003317866 0.003317866 0.003317866 0.003317866 0.003317866 0.003317866 0.003317866 0.003337616 0.003317866 0.003337616 0.003317866 0.003337616 0.003337616 0.003337616 0.003337616 0.003337616 0.003337616 0.003337616 0.003337616 0.003337616	0.019780622 0.019780620 0.019780620 0.019837453 0.0198437453 0.019843723 0.019862322 0.019862322 0.019862322 0.019862322 0.019862322 0.019862322 0.019862323 0.019862323 0.019862323 0.019862323 0.019862323 0.019862323 0.019862323 0.019862323 0.019862323 0.0198623323

CW C27	935.7151626	-0.374435902	0.127733937	-2.931373689	0.003374666	0.020616408
CDKL3	293.1302715	-0.270916005	0.092420729	-2.931333792	0.003375099	0.020616408
ZC3H7B	7238.355107	-0.300174448	0.102440886	-2.930221134	0.003387209	0.020676671
ALDOA	54794.48509	0.451579835	0.154108264	2.930276564	0.003386604	0.020676671
APBB2	3482.87884	-0.518588548	0.177028878	-2.929400858	0.003396161	0.020724456
CCN E2	700.3601696	-0.817072662	0.278934204	-2.929266648	0.003397628	0.020726544
GRID1	1581.639462	-0.650655938	0.222199597	-2.928249856	0.00340876	0.020784984
ZNF565	253.208683	-0.358129555	0.122304251	-2.928185678	0.003409464	0.020784984
N CAPD3	786.7974072	-0.361376895	0.123428074	-2.927833874	0.003413324	0.020798853
ERBIN	8865.630598	-0.553518239	0.189057794	-2.92777265	0.003413996	0.020798853
TLN RD1	1387.009258	0.46783479	0.159804214	2.927549776	0.003416444	0.020806887
COQ3	301.0140886	0.397986681	0.13597091	2.92699872	0.003422503	0.020836903
TUT4	1637.863293	-0.510552982	0.174462614	-2.926432034	0.003428744	0.020868007
MYO6	4231.603344	-0.47497533	0.162359133	-2.925461109	0.003439462	0.020908053
ATG 4C	1452.226901	-0.500465119	0.171073861	-2.925432997	0.003439772	0.020908053
CDC37L1	967.3149541	0.252410111	0.086287573	2.925219715	0.003442131	0.020908053
DDK56	3205.676095	0.31942494	0.109193371	2.925314383	0.003441084	0.020908053
ZNF48	849.5741003	0.376274986	0.128622426	2.92542287	0.003439884	0.020908053
MCTS1	1150.962054	0.327038122	0.111780537	2.925716139	0.003436644	0.020908053
SPATC1	37.11319148	1.270003295	0.434174661	2.925097685	0.003443481	0.020909362
SMOX	6500.718713	0.469560549	0.16054394	2.924810168	0.003446664	0.020921796
FKBPL	381.969783	0.474741521	0.162424951	2.922836165		0.021047955
SPOCK3	5849.340907	-0.982378867	0.336345952	-2.920739378	0.003492018	0.021169211
CG B5	2.822452933	3.139226192	1.074798466	2.920757976	0.00349181	0.021169211
ZMYN D19	956.8770593	0.367201043	0.125720725	2.920767784	0.0034917	0.021169211
PLB1	533.365418	-0.579047165	0.198289518	-2.920210661	0.003497948	0.02119122
STUB1	7210.053013	0.439319262	0.150437901	2.920269816	0.003497284	0.02119122
SHBG	46.69044786	0.631421941	0.216277951	2.919492898	0.003506014	0.021233102
RELA	3656.23026	0.349707155	0.119793687	2.919245286	0.0035088	0.021242995
ERCC1	4981.398418	0.339281983	0.116238397	2.918846022	0.003513297	0.021263236
MRPL38	3533.160734	0.417253878	0.142984484	2.918175924	0.003520856	0.021301991
HINT2	1896.491828	0.515546458	0.176719236	2.917319419	0.00353054	0.021353569
ATP11A	3245.853536	-0.555508552	0.190467327	-2.916555614	0.003539196	0.0213989
CPSF6	2730.46571	-0.437831228	0.150133223	-2.916284742	0.003542271	0.021410464
MT3	31406.93363	0.92070594	0.315728685	2.916130154	0.003544026	0.021414052
HIST1H2BK	347.902297	0.790392652	0.271055881	2.915976766	0.003545769	0.021417561
ZNF236	644.6532403	-0.565343642	0.193918073	-2.915373663	0.003552629	0.021451967
N ID1	1144.25853	-0.735595897	0.25235427	-2.914933432	0.003557644	0.021475213
TPM3	11288.09945	0.222932499	0.076483858	2.91476537	0.00355956	0.021479744
JOSD1	2863.853294	0.227736506	0.078135048	2.9146524	0.003560849	0.021480487
UVSSA	2293.163522	-0.48713107	0.167151622	-2.914306571	0.003564796	0.021497262
RAB7B	515.6267799	0.677559228	0.232506343	2.914153742	0.003566542	0.021500754
VPS26A	2238.562909	0.276220799	0.094794319	2.913896114	0.003569487	0.021504436
ZNF598	2114.628565	0.358964541	0.123189796	2.913914576	0.003569276	0.021504436
PHYKPL	1973.668564	-0.296697082	0.101870544	-2.91249138	0.003585581	0.021587282
FITM2	819.3204913	0.266436033	0.091478403	2.912556662	0.003584832	0.021587282
XPO4	1000.407932	-0.363012405	0.124644256	-2.912387748	0.003586771	0.021587394
RAD54L2	1695.191927	-0.304443539	0.104538703	-2.912256695	0.003588276	0.021589403
POGK	4513.677953	-0.286873603	0.098512109	-2.912064383	0.003590486	0.02159565
MREG	408.1097377	0.574491857	0.197288139	2.911943215	0.003591879	0.02159698
LSM4	4028.503504	0.346825813	0.119121242	2.911536233	0.003596562	0.021618082
FREM1	312.7888719	-1.036211146	0.355978862	-2.910878304	0.003604144	0.021642477
NXF1	5054.512268	0.319660087	0.109813316	2.910941019	0.00360342	0.021642477
TMEM167B	2507.472847	0.167803037	0.057644975	2.910974211	0.003603038	0.021642477
RHOBTB1	935.4769765	-0.323385897	0.111106137	-2.910603371	0.003607316	0.021654472
AC090360.1	166.2909402	-0.513015621	0.176286118	-2.910130572	0.003612778	0.021680197
JMJD8	2719.842466	0.346858677	0.119255662	2.908530044	0.003631323	0.021784391
CHMP3	3936.421041	0.205904573	0.070802453	2.90815593	0.00363567	0.021803372
OFD1	1445.244479	-0.333228558	0.114590805	-2.907986886	0.003637636	0.021808065
PDE1C	2965.442706	-0.847859666	0.291595886	-2.907653044	0.003641521	0.021817163
PSTPIP2	349.9289119	0.876122232	0.301307669	2.907732929	0.003640591	0.021817163
U BE2S	3572.654022	0.611485731	0.210312796	2.907506068	0.003643233	0.021820324
YTHDC2	1394.529038	-0.403600648	0.138868319	-2.90635511	0.003656662	0.02188653
ATIC	2975.614757	0.274212524	0.094347722	2.906403219	0.0036561	0.02188653
EIF4EBP1	1535.729281	0.775958278	0.267015232	2.906044996	0.003660288	0.02190112
MTZC	4125.104517	-0.589996899	0.203040043	-2.905815475	0.003662974	0.021902968
DOLK	1068.337067	0.382427681	0.1316046	2.905883838	0.003662174	0.021902968
AARD	37.62087249	0.898888299	0.309384474	2.905408561	0.00366774	0.021924353
DU O X2	51.96982878	-0.912178362	0.313974844	-2.90525938	0.003669489	0.021927694
EDA	188.9435893	-0.539777304	0.185807193	-2.905039873	0.003672063	0.021935965
TMEM161B	564.1062633	-0.379730638	0.130734383	-2.904596553		0.021959937
MTBP	190.5047957	-0.579347363	0.199555785	-2.903185005	0.003693884	0.022052018 0.022100749
CELA2A	4.798868554	-1.291839147	0.445094614	-2.902392222	0.003703246	0.022127734
TSNARE1	794.3980844	-0.328542602	0.113219999	-2.901807143	0.003710169	
ADAD2	117.4432703	1.214773111	0.418617269	2.901870521	0.003709418	0.022127734
AL512506.3	37.50130906	-1.141942062	0.393731475	-2.90030677	0.003727976	0.022226746
IDO1	41.24360777	1.555846676	0.536525493	2.89985601	0.003733341	0.02224434
TIGAR	817.6498313	0.415041933	0.14312137	2.899929843	0.003732462	
PIGL	545.484502	-0.293369691	0.101182951	-2.899398437	0.003738794	0.022250935
TPP2	1723.778331	-0.266140134	0.091795987	-2.899256726	0.003740485	0.022250935
LRRC8E	42.36311401	1.227872409	0.423512041	2.8992621	0.003740421	0.022250935
KLHDC7A	142.1899951	1.402420989	0.483679399	2.899484644	0.003737767	0.022250935
KLF11	515.0531644	0.486968034	0.167945804	2.899554623	0.003736932	0.022250935
SUCLG2	1347.359376	-0.442989405	0.152799659	-2.899151785	0.003741737	0.022251201
VPS4A	5632.749108	0.351779682	0.121355856	2.89874501	0.003746595	
AN KS6	1798.830348	-0.296191763	0.102187577	-2.898510474	0.003749398	0.022282378
SCRN 3	1176.358401	-0.400345367	0.138150641	-2.897890041	0.003756823	0.022319306
NOL4L	2107.18637	-0.317491781	0.109585823	-2.897197585	0.003765125	0.022361423
PRR29	1856.884232	0.251573683	0.086854337	2.896501113	0.003773493	0.022403899
	165.6902318	-1.003180602	0.346369533	-2.896272638	0.003776242	0.022412998
G PHN	1201.010659	-0.59989805	0.207138403	-2.896121829	0.003778057	0.022416552
O R8G 5	1,202892247	3.055816315	1.055368358	2.89549738	0.003785582	0.022453971
ZNF585A	771.2096131	-0.260195104	0.089898514	-2.89432041	0.003799802	0.022531066
SHBBP5L	2254.33156	0.309764437	0.107043587	2.893815921	0.003805912	0.022560037
SRSF11	6214.002925	-0.316307731	0.109316498	-2.893504056	0.003809694	0.022575191
ZNF362	1900.496288	-0.309973959	0.107150341	-2.892888229	0.003817171	0.022609195
TRMT112	4411.916406	0.382333863	0.132170669	2.892728512	0.003819113	0.022609195
PTCRA	116.6759447	1.012992716	0.350177753	2.892795752	0.003818295	0.022609195
C10orf143	178.3884152	-0.342038687	0.118254593	-2.892392418	0.003823201	0.02262613
ZNF334	830.3740089	-0.359330502	0.124237812	-2.892279711	0.003824573	0.022626983
PPP1R3E	1623.413943	-0.453345006	0.156749438	-2.892163517	0.003825988	0.022628089
RAB1B	10222.35132	0.321395819	0.111145604	2.891664689	0.003832067	0.022656773
SLCO3A1	3992.224	-0.604599147	0.209122571	-2.891123343	0.003838674	0.022679269
CERK	2566.931255	0.356596082	0.123344811	2.89105054	0.003839564	0.022679269
LIPH KIF13A	24.5551406 2761.149662	0.941193663	0.325535727	2.891214656	0.003837559 0.00384167	0.022679269
N AA40	1279.604233	-0.374062241 -0.299816872	0.103713245	-2.890878165 -2.890825291	0.003842317	0.02268099 0.02268099
TIMD4	19.07505263	-0.91647843	0.317041901	-2.89071705	0.00384364	0.022681538
FITM1	28.42664398	0.713638191	0.24689479	2.890454638	0.00384685	0.022693216
RIPOR2	780.3093274	0.679067572	0.234967003	2.890055046	0.003851744	0.022714811
ZNF574	998.5904434	0.35676947	0.123478164	2.889332489	0.003860606	0.022759793
ECE1	5882.395535	0.447627365	0.154943831	2.888965393	0.003865116	0.022764533
ALKBH4	947.5654738	0.352718862	0.12208989	2.889009588	0.003864573	0.022764533
NKAP	1293.732814	0.219230002	0.075880629	2.889143197	0.003862931	0.022764533
IQCK	813.0641903	-0.399633378	0.138408148	-2.887354412	0.003884964	0.022874119
COXSA	5234.262706	0.37011541	0.128210209	2.886785802	0.003891991	0.022908176
	J234.202/Ub	0.3/011541	0.128210209	∠.000/038U2	0.003691991	0.0229061/6

UNCSC	1531.237582	-0.873805415	0.302714098	-2.886569937	0.003894662	0.022916578
TRIM45	466.1539831	-0.368835426	0.12785948	-2.884693622	0.003917947	0.023046235
FOXN3	2259.369504	-0.358400108	0.124255616	-2.884377532	0.003921883	0.023062022
PYCARD	1258.23211	0.791465214	0.274411159	2.884231153	0.003923706	0.023065385
FBXO 31	1593.267928	0.39396631	0.136618441	2.88369789	0.003930356	0.023097109
	2321.48739	0.335185248	0.116262629	2.883000769	0.003939065	0.023126163
ECSCR	883.497769	0.793323751	0.275164775	2.883086144	0.003937997	0.023126163
TMX4	3822.501932	0.310248067	0.107607196	2.883153534	0.003937155	0.023126163
LRRC59	3393.835289	0.347888265	0.120676963	2.882805923	0.003941502	0.023133102
GJC1	309.5337801	-0.547689056	0.190036483	-2.882020587	0.003951339	0.023183454
TMEM72	5.039614617	1.530119262	0.530943631	2.881886462	0.003953021	0.023185943
VPS13B	1428.78287	-0.65415139	0.227021357	-2.881453094	0.003958461	0.023203081
LG ALSL	712.4711648	0.397850392	0.138069374	2.881525284	0.003957555	0.023203081
TCEAL9	2271.527762	0.329333852	0.114306691	2.881142371	0.003962366	0.023218584
ARMC2	225.6948932	-0.415501818	0.14423567	-2.880714726	0.003967746	0.023240016
ZDHHC24	1686.789368	0.42290419	0.146808539	2.88065118	0.003968546	0.023240016
FCG RT	11390.4869	0.643589863	0.223433819	2.880449643	0.003971084	0.023247492
EDEM1 PLG	1453.58051 28.05732059	0.445418524 -0.717222105	0.154642838 0.249030918	2.8803049 -2.880052444	0.003972908	0.023250782
CCDC82	2444.450443	-0.510965145	0.177431439	-2.879789217	0.003979411	0.023274062
LCMT1	1871.092253	0.362359835	0.125849841	2.879303093	0.003985551	0.023302576
FAM166B	32.20609626	-0.810727319	0.281614069	-2.878859436	0.003991162	0.02332798
THBS2	3340.957738	-0.457692792	0.159038888	-2.877867157	0.004003737	0.023394061
CTBP2	1778.154529	-0.268361231	0.093259462	-2.877576445	0.004007428	0.023408206
GATA2	227.5402575	0.68969562	0.239718201	2.877109948	0.004013357	0.023435413
ANO1	83.79005529	-0.952998948	0.331249164	-2.876985217	0.004014944	0.023437252
POLR2J	4528.940528	0.490431352	0.170483614	2.876706682	0.004018489	0.023450519
C10orf82	30.73394887	0.963743724	0.335037266	2.876526948	0.004020779	0.023456451
TLE3	2542.30965	0.439710969	0.152870827	2.876356313	0.004022953	0.02346171
AG O 2	2576.975638	-0.422908862	0.147049424	-2.875964088	0.004027955	0.023483451
CASS4	193.0645489	-0.813812473	0.283002157	-2.875640527	0.004032086	0.0235001
MDG A1	1362.429756	0.47850922	0.166432544	2.875094073	0.004039071	0.0235333369
PCP2	15.45725473	1.156229018	0.402192919	2.874811972	0.004042682	
ADAM28	1245.193984	-0.756747842	0.263259689	-2.874529875	0.004046295	0.023560559
TRAF3IP2	1361.427074	0.464076843	0.16146263	2.874205901	0.004050448	0.023577292
TTC29	25.5577242	-1.125300098	0.391613351	-2.87349779	0.004059539	0.023598411
G APDH	1693.622654	-0.537472602	0.187049747	-2.873420624	0.004060531	0.023598411
	196509.9123	0.474845978	0.165260095	2.873325093	0.004061759	0.023598411
SIRPD	14.50355674	1.194683515	0.41577909	2.873361227	0.004061295	0.023598411
PRDX1	27422.13463	0.444347797	0.154629179	2.873634851	0.004057778	0.023598411
PHOSPHO1	132.9568854	1.243350384	0.432648363	2.873812756	0.004055493	0.023598411
TMEM235	3202.388	-0.952616917	0.33155641	-2.873166948	0.004063793	0.023599373
ZNF839	744.7369027	-0.196010575	0.068229325	-2.872820067	0.004068258	0.023599373
C10orf90	1329.7562	-0.792375582	0.275818556	-2.872814625	0.004068328	0.023599373
TN FAIP6	315.9802838	0.766952464	0.266962025	2.872889744	0.00406736	0.023599373
KLF16	1813.212262	0.40132063	0.139688487	2.872968559	0.004066346	0.023599373
TMEM168	1241.855016	-0.271482412	0.09453988	-2.871617891	0.004083764	0.023680605
IFT172	1718.424304	-0.35843015	0.124822015	-2.871529912	0.004084901	0.023680605
EMD	2650.216344	0.288077373	0.100327006	2.871384128	0.004086786	0.02368408
CXCL8	1313.602517	1.288192648	0.448666952	2.871155634	0.004089741	0.023693757
	1095.492924	-0.595918209	0.207563501	-2.871016377	0.004091543	0.023696748
ZNF668	751.4797203	0.353052474	0.122998842	2.870372334	0.004099887	0.023737613
G TF2IRD2B	1550.294473	-0.305994026	0.106630901	-2.869656193	0.004109183	0.023783963
CITED2	1824.331832	0.660813127	0.230296834	2.869397361	0.004112548	0.023795964
CLASP2	7951.41409	-0.576355996	0.200908332	-2.868751093	0.00412096	0.023837151
EN PEP	159.1882723	-0.894906759	0.311966427	-2.868599572	0.004122934	0.02383959
PRPF4	1171.751625	0.305207661	0.106398993	2.868520216	0.004123968	0.02383959
TRMT11	568.1791047	-0.412066599	0.143677741	-2.867991914	0.004130861	0.023871946
AKR1B1	7992.495997	0.404510418	0.141091502	2.867007658	0.00414373	0.023938808
FAM192A	5487.474139	-0.231772006	0.08084672	-2.866807793	0.004146347	
RTCB	3542.809451	0.242429754	0.084597946	2.865669495	0.004161284	0.02402516
UPK3B	116.246639	0.637164173	0.222387975	2.865101738	0.004168753	0.024060741
FOSL2	3223.978279	0.681005338	0.237708229	2.864879108	0.004171685	0.024070124
PLAG1	162.6940674	-0.473239418	0.165209749	-2.864476349	0.004176993	0.024093212
NAIP	2137.803731	-0.572586679	0.199934298	-2.863874212	0.004184942	0.024128551
CCDC102B	314.3426466	-0.448396534	0.15657321	-2.86381389	0.004185739	0.024128551
CD1D	135.5370241	0.910479996	0.317986094	2.863269849	0.004192933	0.024147363
ZNF442 NDLIEV2	136.4725511 4102 616488	0.366714681	0.128071353 0.12828535	2.863362284 2.863402337	0.00419171	0.024147363
BAMBI	1110.155445	0.459792315	0.160617594	2.862652239	0.004201114	0.024186919
CCL21	1.68652716	-1.953442676	0.682449818	-2.862397532	0.004204492	0.024198807
PPP1R3G	279.3445491	0.468572009	0.163726219	2.861924077	0.004210778	0.024219857
PPP1R18	3526.933968	0.55050295	0.192350437	2.861979204	0.004210045	0.024219857
HK3	802.2824974	0.919644745	0.321358833	2.861737884	0.004213252	0.024226527
NARS	6195.597667	0.162506603	0.056798827	2.861090849	0.004221861	0.024268455
DLL1	867.3440792	-0.621036727	0.217089802	-2.860736526	0.004226581	0.024288017
OCLN	619.9959528	-0.748284981	0.261593361	-2.860489194	0.00422988	0.024299393
SUPT6H	7076.02371	0.177336801	0.06199886	2.860323591		0.024304511
CLPP	2225.177717	0.396903698	0.138785754	2.85983025	0.004238678	0.024327188
PLOD1	6058.260821	0.51002091	0.178334331	2.859914343	0.004237554	0.024327188
MRPL33	2125.015885	0.444912057	0.155609141	2.859164014	0.004247591	0.024363167
IER3IP1	1104.12372	0.298414424	0.104368204	2.859246533	0.004246486	0.024363167
EAF1	1870.946075	0.393234718	0.137559888	2.858643768	0.004254563	0.024395562
ATP6V1D	4263.557743	0.283705079	0.099256489	2.858302589	0.00425914	0.024406622
SLAMF1	54.617279	1.367447792	0.478411563	2.858308405	0.004259062	0.024406622
TOGARAM2	356.5012764	-0.509464226	0.178285198	-2.85758005	0.004268849	0.024454655
PLK4	142.6272128	-0.881569164	0.30854073	-2.857221356		0.024473869
GANC	808.7585601	-0.290492784	0.101672806 0.106744652	-2.857133538	0.004274859	0.024473869
STAMBP	3433.92724	-0.304932266	0.240254307	-2.856651462	0.004281357	0.024503455
CAVIN 4	101.9754387	-0.686254463		-2.856366955	0.004285196	0.024517811
GSTP1	14820.83775	0.831073804	0.290971359	2.856204837	0.004287384	0.024522721
MORC1	11.14795332	-1.336682115	0.468031222	-2.855967834	0.004290586	0.024533419
TIG D5	632.2315655	0.352606993	0.123474436	2.855708469	0.004294092	0.024545852
RBM22	3198.888852	0.242767335	0.085014538	2.855597871	0.004295588	0.024546789
MAP3K7	2333.417146	-0.233299052	0.081709172	-2.855237031	0.004300472	0.02456708
SESTD1	3232.273297	-0.512787457	0.17960735	-2.855047174	0.004303044	0.024574153
стѕн	6308.556466	0.655858916	0.229731348	2.854895168	0.004305104	0.024578301
SLC25A44	3039.026495	0.214263606	0.075069401	2.854206937	0.004314442	0.024616361
VARS	3238.548704	0.378271538	0.132527134	2.854295016	0.004313246	0.024616361
PAPSS2	581.7968361	0.637830579	0.223491019	2.853942779	0.004318031	0.024629214
PSMC3	6984.830775	0.379495866	0.132988426	2.853600694	0.004322683	0.024648118
RMC1	1106.399015	0.175837222	0.061622862	2.853441359	0.004324851	0.024652854
IMPG 2	29.87661944	-0.785016835	0.275126752	-2.85329154	0.004326891	0.024656854
MOG	23533.43878	-0.87410639	0.306374004	-2.85306971	0.004329912	0.024666446
ADG RA2	844.4821045	-0.614186842	0.215296501	-2.852748836	0.004334286	0.024683734
PCCB	2287.915386	-0.258345241	0.090577262	-2.852208561	0.00434166	0.024718091
W DR24	1056.091225	0.319891401	0.112161931	2.852049687	0.004343831	0.024722811
ZNF205	1171.414068	0.431816258	0.151449619	2.851220504	0.004355176	0.024779725
NASP	6248.25572	-0.412499556	0.144692218	-2.850875897	0.004359898	0.02479894
SLURP2	23.62892039	1.719459844	0.6031763	2.850675406	0.004362648	0.024806924
ARF6	2944.87694	0.341261672	0.119723802	2.850407907	0.004366319	0.024820141
OR7G2	11.19622174	-0.809750529	0.284098583	-2.850244866	0.004368558	0.024825211
PHF2	2596.050107	-0.401148504	0.140763236	-2.849810189	0.004374533	0.024851499
ARHG EF7	4729.483494	-0.379987145	0.133351575	-2.849513724	0.004378612	0.024867006
PKN 1	8480.59871	0.403145608	0.141502488	2.849035483	0.004385199	0.024896744
NPTX2	3217.679465	0.835670252	0.293339823	2.84881283	0.004388269	0.024898832

APMAP	5738.78196	0.232203061	0.081508701	2.848813157	0.004388264	0.024898832
FBN1	1778.913191	-0.53923651	0.189298076	-2.84861063	0.004391058	0.024903675
PLD1 CYTH1	1598.392223 6344.466069	-0.581079612 -0.359577284	0.203991004 0.126265917	-2.848555082 -2.847777875	0.004391825 0.004402564	0.024903675 0.024956891
F13A1	2114.671364	-1.154525914	0.126263917	-2.847157552	0.004402564	0.024997887
MICU 2	1699.067995	-0.286881464	0.100791555	-2.84628474	0.004423262	0.025043411
RFNG NIT1	3010.759355 1830.707738	0.386458133 0.250910873	0.13577624 0.088149614	2.846286886 2.846420552	0.004423233	0.025043411 0.025043411
MAML3	344.4720007	-0.488910319	0.171777758	-2.846179411	0.004424726	0.025044002
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DOXR EXOS	3289.409675 327.3634872	0.551663293 0.434512748	0.193847392 0.152688567	2.845863889 2.845745135	0.004429112 0.004430764	0.02505344 0.025055094
RBM5	6573.928041	-0.254361148	0.089407592	-2.844961378	0.004441681	0.025106196
CHTF8 DERA	1711.453146 1133.869783	0.274905202 -0.272952147	0.096630857	2.844900799 -2.844770315	0.004442526 0.004444346	0.025106196 0.025108782
ZFP69	229.1521687	-0.40956545	0.144032755	-2.843557706	0.004461293	0.025196803
TRAPPC13	977.1652837	-0.393810301	0.138523382	-2.842915728	0.004470289	0.025233125
PG D MSRB2	5322.435633 1970.963339	0.261218339 0.521805081	0.091884354 0.183553163	2.842903354 2.842800821	0.004470462 0.004471901	0.025233125 0.025233515
ARMC6	1694.74402	0.305811437	0.1075817	2.842597172	0.004474759	0.025241913
G PRC5C UBQLN4	1181.734747 3538.103712	0.551809048 0.281877297	0.194131441 0.099194238	2.842450681 2.841670072	0.004476816 0.004487791	0.025245788 0.025299938
NUDCD2	1502.595922	-0.280255636	0.099194238	-2.841057366	0.004496422	0.025340846
PICALM	9127.818554	-0.356331096	0.125445758	-2.840519292	0.004504015	0.025360952
FOLH1 TST	4067.989415 1937.797291	-0.820692961 0.565202752	0.28892431 0.198975864	-2.840511968 2.840559361	0.004504118 0.004503449	0.025360952 0.025360952
CRAT	3484.770497	0.338294998	0.1191076	2.840246962	0.004507862	0.025374279
CTSS	4964.919014	0.838492549	0.295253347	2.839908698	0.004512645	0.025393444
RN ASE4 IL 18R1	600.9948431 88.11439818	0.487104494 0.882091386	0.171545186 0.310646545	2.839511298 2.83953387	0.00451827 0.00451795	0.025409578 0.025409578
CFAP54	299.26584	-0.555834198	0.195763948	-2.839308272	0.004521146	0.025417996
SYAP1	2184.619057	0.209188488	0.073693968	2.838610708 2.838293794	0.00453104	0.025465853
MFN1	856.2496486 1490.376653	0.194121167 -0.229857092	0.068393613 0.081013288	2.838293794 -2.837276423	0.004535541 0.00455002	0.025483382 0.02555694
GLI1	188.7154895	1.647877247	0.580927737	2.836630343	0.004559236	0.025600904
OSGEPL1 MAP7	407.3323254 5512.506895	-0.429140782 -0.703911665	0.151299325 0.248190788	-2.836369437 -2.836171607	0.004562963 0.004565791	0.025614026 0.025617303
SASS6	184.3501137	-0.703911663	0.248190788	-2.836171007	0.004566327	0.025617303
TMEM101	1292.284868	0.35061452	0.123628496	2.836033202	0.00456777	0.025617598
SLC28A3 CRBN	18.28885013 2492.576055	1.084804293 -0.400873586	0.382527963 0.141369464	2.835882337 -2.835644797	0.004569928 0.004573328	0.025621905 0.025633169
SMPDL3A	739.1062123	0.601185635	0.212031165	2.835364484	0.004577343	0.025647873
SLC44A1 RASA3	17329.57355 3444 583487	-0.601432561 -0.395607344	0.212148831 0.139550997	-2.834955808 -2.834858609	0.004583203 0.004584597	0.025669347 0.025669347
PPARD	2723.573956	-0.395607344 -0.246141057	0.139550997	-2.834858609 -2.834805859	0.004585354	0.025669347
TDRD9	154.5021949	0.725620237	0.255990305	2.834561401	0.004588864	0.025681194
AVPR1A PTPRI	34.95902406 2854.834394	-1.085708029 -0.292550895	0.383088336 0.10322891	-2.834093151 -2.83400159	0.004595593 0.00459691	0.02570281 0.02570281
CCDC106	2764.382052	0.446461329	0.157532104	2.834097416	0.004595532	0.02570281
CYREN II 24	1301.805909 5.692574474	0.325760363 1.977915649	0.114977165 0.698135199	2.833261388 2.833141279	0.004607569 0.004609301	0.025754593 0.025756461
STIP1	5.692574474 4650.736658	1.97/915649 0.273488471	0.698135199	2.8331412/9	0.004609301	0.025756461
EO:61	5332.321232	0.42296862	0.149322311	2.832588224	0.004617282	0.025785423
RFX4 CFAP69	2310.639376 237.449519	-0.64590771 -0.515868242	0.228105975 0.182214257	-2.831612409 -2.831108	0.004631395 0.004638706	0.025856401 0.025882327
TOMM5	2111.276012	0.375671747	0.132694708	2.831098188	0.004638848	0.025882327
RU VBL 2 CARD17	3588.863056 6.68235749	0.414895771 1 93268878	0.146563322 0.68271928	2.830829469 2.830868903	0.004642747 0.004642174	0.025888405
CARD17 TIMM44	6.68235749 1937.649099	1.93268878 0.296532047	0.68271928 0.104767325	2.830868903 2.830386725	0.004642174 0.004649177	0.025888405 0.025908583
CD800A	1538.973905	0.730489927	0.258080824	2.830469598	0.004647973	0.025908583
POLL	1395.466321	0.307545285		2.82983918		
N S PD 1			0.108679421		0.004657141	0.025945117
N SRP1 LRRC8D	1755.002506 3160.121486	-0.282480119 -0.442253403	0.108679421 0.099846021 0.156330765	-2.829157513 -2.828959499	0.004657141 0.004667072 0.004669961	0.025945117 0.025992588 0.026000818
LRRC8D SIRPG	1755.002506 3160.121486 16.30059746	-0.282480119 -0.442253403 -1.077224782	0.099846021 0.156330765 0.380802926	-2.829157513 -2.828959499 -2.828824851	0.004667072 0.004669961 0.004671926	0.025992588 0.026000818 0.026003903
LRRC8D SIRPG CFAP47	1755.002506 3160.121486 16.30059746 52.65090706	-0.282480119 -0.442253403 -1.077224782 -1.076392288	0.099846021 0.156330765	-2.829157513 -2.828959499 -2.828824851 -2.82837774	0.004667072 0.004669961 0.004671926 0.004678457	0.025992588 0.026000818
LRRC8D SIRPG	1755.002506 3160.121486 16.30059746	-0.282480119 -0.442253403 -1.077224782	0.099846021 0.156330765 0.380802926 0.380568788	-2.829157513 -2.828959499 -2.828824851	0.004667072 0.004669961 0.004671926	0.025992588 0.026000818 0.026003903 0.02601668
LRRC8D SIRPG CFAP47 SLC3SB4 FAM98C AN APC11	1755.002506 3160.121486 16.30059746 52.650000 2132.799052 1584.367632 3357.318824	-0.282480119 -0.442253403 -1.077224782 -1.076392288 -0.205134378 -0.392732241 -0.414853436	0.099846021 0.156330765 0.380802926 0.380568788 0.0772526245 0.138850345 0.146700029	-2.829157513 -2.828959499 -2.828824851 -2.82837774 -2.828415805 -2.828457076 -2.827902894	0.004667072 0.004669961 0.004671926 0.004677857 0.00467799 0.004677297	0.025992588 0.026000818 0.026003903 0.02601668 0.02601668 0.026047441
LRRC8D SIRPG CFAP47 SLC35B4 FAM98C	1755.002506 3160.121486 16.30059746 52.65090706 2132.799052 1584.367632	-0.282480119 -0.442253403 -1.077224782 -1.076392288 0.205134378 0.392732241	0.099846021 0.156330765 0.380802926 0.380568788 0.072526245 0.138850345	-2.829157513 -2.828959499 -2.828824851 -2.82837774 2.828415805 2.828457076	0.00467072 0.004669961 0.004671926 0.004678457 0.00467729	0.025992588 0.026000818 0.026003903 0.02601668 0.02601668
LRRCBD SIRPG CFAP47 SLC3584 FAM98C ANAPCT1 PYG M HMS3 SRC	1755.002506 3160.121488 16.30059746 52.65090706 2132.799052 1584.367632 3357.318824 1277.61471 326.5288043	-0.282480119 -0.42253403 -1.077224762 -1.076392288 -0.205134376 -0.392732241 -0.414853436 -0.844952880 -0.956557887 -0.544799904	0.099846021 0.156330765 0.380601926 0.380568788 0.072526245 0.138850345 0.14670029 0.298921189 0.338401995 0.192765878	-2.829157513 -2.82859499 -2.828824851 -2.82841774 -2.828417505 -2.828457076 -2.82792894 -2.826674454 -2.826674454 -2.82667453	0.00467072 0.004669961 0.004671926 0.004671926 0.004677297 0.004685402 0.004703412 0.00470317 0.00470317	0.025992588 0.026000818 0.026003903 0.02601668 0.02601668 0.02601668 0.026017441 0.026131798 0.026313798
LRRCBD SIRPG CFAP47 SLC3584 FAM988C AN APC11 PVG M HMS3 SRC CFAP46	1755.002506 3160.121488 16.30059746 52.65990706 2132.799052 1584.367632 3357.318824 1277.61471 326.5288043	-0.282480119 -0.42253403 -1.077224782 -1.076392288 -0.205134378 -0.392732241 -0.414853436 -0.844952889 -0.956557897	0.099846021 0.156330765 0.38060278 0.380568788 0.072526245 0.138850345 0.146700029 0.298921189 0.338401905	-2.829157513 -2.828959499 -2.828824851 -2.828824851 -2.82841505 -2.828457076 -2.827902894 -2.82667484 -2.82667484	0.00467072 0.004669961 0.004671926 0.00467737 0.0046779 0.00467799 0.00467739 0.00467739 0.004703412 0.004703157	0.025992588 0.026003818 0.026003903 0.02601688 0.02601668 0.02601678 0.02611798
LRRCBD SIRPG CFAP47 SLC3584 FAM98C ANAPCT1 PYG M HMS3 SRC	1755.002505 3160.121468 16.30059746 52.65590706 2132.789052 1584.367632 3353.31824 1277.51471 326.5280031 1910.416692 281.690900	-0.282480119 -0.442253403 -1.077224782 -1.077524782 -0.205134378 -0.392723241 -0.414853436 -0.844952888 -0.9365573877 -0.544799904 -0.671975089	0.099846021 0.156330765 0.380682926 0.38056878 0.072526245 0.186700029 0.298921189 0.338401905 0.192765878 0.237782939	-2.829157513 -2.82895999 -2.82824851 -2.828248774 -2.828248774 -2.82841590 -2.828674554 -2.82667455 -2.82667455 -2.82660113 -2.82600113	0.00467072 0.00467925 0.00467325 0.00467325 0.004673457 0.004673457 0.004673457 0.00473157 0.00473157 0.00473157 0.00473155 0.00473355	0.025992588 0.025003818 0.025003818 0.02601686 0.02601686 0.02601686 0.025047441 0.02611798
LIRCED SIRPG CTAPAT SLC3584 FAMSEC AWAPCT1 PFGM HWS3 SIC CFAPAG TRIMM3 BRAMM1 UCP3	1755.002506 3161.21486 163.0069746 52.6500705 2132.79905 1584.367632 3357.318824 1277.51472 326.5288043 1914.416607 281.690008 1176.179018 4451.56721 100.6384587	-0.282480119 -0.44223400 -1.077244782 -1.076392288 -0.205134378 -0.382732241 -0.414853348 -0.844952889 -0.956557807 -0.544799900 -0.679975089 -0.222218554 -0.311467526 -0.510322457	0.099846021 0.156330765 0.388607326 0.380607326 0.38056738 0.077525245 0.138850345 0.146700279 0.298921189 0.338401905 0.192765378 0.27786239 0.078653504 0.130703365	-2.829157513 -2.82959590 -2.82824851 -2.8283774 -2.828457076 -2.829637076 -2.829637076 -2.829637076 -2.829667454 -2.82667454 -2.826691823 -2.826602113 -2.825248210 -2.825248210 -2.825248210 -2.825248210 -2.82524820 -2.82524820 -2.82524820 -2.82524820 -2.82524820 -2.82524820 -2.82524820 -2.82524820 -2.82524820 -2.82524820 -2.82524820 -2.82524820 -2.82524820	0.00467072 0.00467072 0.004679326 0.00467326 0.00467327 0.004677297 0.004677297 0.004677297 0.004703127 0.004703157 0.004703157 0.004703157 0.004703157	0.02592568 0.025600818 0.025600818 0.02601668 0.02601668 0.02601668 0.02501768 0.02501768 0.02501768 0.025131798 0.025131798 0.02513798
LINCED SIMPG CEAPAT SLC3584 FAMNEC HWS 3 SNC CEAPA66 TEMM3 BMBAMI	1755.002505 3160.121468 163.0059746 52.65090706 2112.799602 1158.357632 3357.318624 1277.51472 326.5288043 1910.416697 281.699098 1176.179018 4451.557281	-0.282480119 -0.442253430 -1.0772724782 -1.076392288 -0.205134379 -0.382732241 -0.414853436 -0.844952889 -0.956557897 -0.544799900 -0.671997508 -0.222218554 -0.311467624	0.099846021 0.156339765 0.380569728 0.380568728 0.072526245 0.146700029 0.298921188 0.338401905 0.192765878 0.237782393 0.078653505	-2.829157513 -2.82959599 -2.8288248511 -2.82837776 -2.828457076 -2.828457076 -2.828457076 -2.828657076 -2.828657076 -2.828657076 -2.828657285 -2.826691822 -2.82662283 -2.8262283 -2.8262283	0.00467072 0.00467925 0.00467325 0.00467325 0.004673457 0.004673457 0.004673457 0.00473157 0.00473157 0.00473157 0.00473155 0.00473355	0.025992588 0.025600818 0.026003800 0.02601668 0.02601668 0.02601668 0.026017441 0.0261131798 0.026116554 0.02616554 0.026127586
LINCED SIRPG CEAPAT SLC3984 FAM98C ANAPCL1 PFGM HRS3 SIC CEAPAG TRMI3 BRANMI UCP3 MEIOC SLC3987 FSG2	1755.002906 3161.21486 163.0069746 52.6500705 1584.367632 3357.31826 1277.61471 326.5288043 1910.416692 281.69008 1176.179015 4451.567281 100.6384587 33.34519105 4947.25157 24.82531677	-0.282480119 -0.44223400 -0.44223400 -1.077224782 -1.076392288 -0.20513479 -0.392732241 -0.414853348 -0.844952888 -0.956557897 -0.544799900 -0.671975088 -0.222228554 -0.311467626 -0.5133108786 -0.3812082767 -0.533108786	0.099846021 0.156330765 0.386802326 0.380802326 0.37556234 0.077556234 0.138850345 0.146700229 0.288921185 0.338401905 0.192765378 0.17776239 0.077863505 0.1102806477 0.188096857 0.138009657	-2.829157513 -2.8295774 -2.82824551 -2.82824774 -2.82821776 -2.82821776 -2.82821760 -2.828647076 -2.827607823 -2.8260823 -2.8260823	0.00467072 0.00467072 0.004679326 0.004673276 0.004677327 0.004677237 0.004677237 0.0047703127 0.0047703127 0.0047703127 0.0047703127 0.0047703127 0.0047703127 0.0047703127 0.0047703127 0.0047703127 0.0047703127 0.0047703127	0.025992588 0.025003830 0.025003830 0.02601686 0.02601686 0.02601686 0.0260141789 0.026131798 0.026131798 0.026131798 0.0262131780 0.02633401 0.02633401 0.02633401
LINCED SIRPG CFAPAT SLC3884 FAM98C ANAPCEL INS SSC CFAPA6 CFAPA6 TRIMEL BARAMI UCP3 MEIOC SLC39A7	1755.002505 3161.121485 163.0039746 52.65090706 2112.799025 1584.357632 3357.318624 1277.51472 326.5288043 1910.416607 281.659008 1176.170918 4451.567281 100.6384587 35.84519162 4947.25152	-0.282480119 -0.442253430 -1.0772724782 -1.076392288 -0.205134379 -0.392723241 -0.414853436 -0.844952889 -0.956557897 -0.544799900 -0.671997508 -0.227218554 -0.311467624 -0.510322467 -0.5131267886 -0.381206807	0.099846021 0.156330765 0.3800602926 0.380568788 0.072526245 0.138550345 0.146700029 0.298921188 0.338401905 0.192765878 0.237782939 0.0728653505 0.110280447 0.110280447 0.110280447	-2.829157513 -2.82959599 -2.8288248511 -2.82837776 -2.828457776 -2.8284517076 -2.8284517076 -2.828567076 -2.828567076 -2.828567076 -2.828567285 -2.826691822 -2.826691822 -2.82652833 -2.826091822 -2.82622833 -2.82622833 -2.82622833 -2.82622833 -2.82622833 -2.826282312 -2.824698901 -2.824523182 -2.824698901 -2.824523182 -2.824698901 -2.824523182	0.00467072 0.00467926 0.00467326 0.00467326 0.00467326 0.00467327 0.00467327 0.00467327 0.00467327 0.00473157 0.00473157 0.00473157 0.00473156 0.00473856 0.00473856	0.025992588 0.025600818 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.026017441 0.0261179 0.0261179 0.0261179 0.0261179 0.0261179 0.026116054 0.0261179 0.026116054 0.0261179
LINCED SIRPG CIAPAT SLCSSB4 FAMSEC ANAPC11 PYGM MRS SEC CIAPAG SEC SEC SEC SEC SEC SEC SEC SE	1755.002906 3161.21486 16.30069746 52.6590705 2132.799052 1584.367632 3357.318824 1277.5147 326.5288043 1910.416602 221.69008 1176.170918 4451.567283 100.834587 35.84519162 4947.251527 222.2288932 222.2288977 1286.651200	-0.282480119 -0.44223400 -0.44223400 -1.077224782 -1.076392288 -0.20513479 -0.392732241 -0.414853348 -0.844952888 -0.956557807 -0.544799900 -0.671975088 -0.222228554 -0.311467026 -0.533108786 -0.3813022457 -0.533108786 -0.3813027865 -0.388389722 -0.388589722 -0.388589722 -0.388589722 -0.388589722 -0.388589722 -0.388589722 -0.38858722 -0.38858722 -0.38858722 -0.38858722 -0.38858722 -0.38858722 -0.38858722 -0.3885872	0.099846021 0.156330765 0.386802526 0.380802526 0.307556248 0.077556248 0.077556248 0.138850345 0.136700259 0.298921189 0.338401905 0.139765375 0.110280427 0.110280427 0.138809857 0.13500365 0.138809857 0.135003650 0.136003500 0.141099458	-2.829157513 -2.8295774 -2.8283774 -2.8283774 -2.8283776 -2.828457076 -2.828457076 -2.828457076 -2.828657054 -2.82667853 -2.82667853 -2.82667853 -2.82667853 -2.82667853 -2.82667853 -2.82667853 -2.82667853 -2.82667853 -2.82667853 -2.82667853 -2.82667853 -2.82667853 -2.826785863 -2.8224785863 -2.8224785863 -2.8224785863 -2.8224785863 -2.8224785863 -2.8224785863 -2.8224785863 -2.8224785863 -2.8224785863 -2.8224785863 -2.8224785863 -2.8224785863 -2.8224785863 -2.8224785863 -2.8224785863 -2.8224785863	0.00467072 0.00467072 0.00467072 0.004671326 0.004671327 0.00467737 0.00467737 0.00467737 0.004677397 0.00473047 0.00473047 0.00473047 0.00473047 0.00473047 0.00473056 0.00473056 0.00473056 0.00473056 0.00473056 0.00473056 0.00473556 0.00473556 0.0047356	0.02592568 0.025600818 0.025600818 0.02603809 0.02601668 0.02601668 0.02601668 0.02601769 0.026131798 0.026131798 0.026131798 0.026131798 0.02633401 0.026334501 0.026334501 0.026334501 0.026334501 0.026334501
LINCEID SINPG CFAPAT SLC3884 FAMNEC FAMNEC FAMNEC FAMNEC FAMNEC CFAPAG SINC CFAPAG SINC CFAPAG SINC CFAPAG SINC CFAPAG TIMINI3 DRBAMI UCP3 MCIOC SLC39A7 PSG2 MCO19 MC	1755.002506 3160.121468 163.0059746 52.6509706 2132.799072 1584.397632 3357.318522 1277.6147] 236.5288043 1191.0.416692 281.690903 1176.179018 4451.56728 45947_25152 48.851167 3224.258873 1284.652200 1178.783807 2742.568270	-0.282480119 -0.44225430 -1.077724782 -1.076392288 -0.205134379 -0.392732241 -0.414853436 -0.844952889 -0.956557897 -0.54479900 -0.67197508 -0.22228554 -0.311467262 -0.510322457 -0.533108786 -0.3812085097 -0.7980527659 -0.388358725 -0.3431397986 -0.20138999 -0.9487711721	0.099846021 0.156339765 0.380568788 0.07252624 0.180568788 0.07252624 0.18885045 0.146700029 0.29892118 0.338401905 0.192765878 0.2377825370 0.110280447 0.180703365 0.188809857 0.139003500 0.140599458 0.1209134197 0.336178417	-2.829157513 -2.82957509 -2.828824851 -2.82837776 -2.828457076 -2.828457076 -2.8286501822 -2.826601822 -2.826601822 -2.826601823 -2.826601823 -2.826501823 -2.826	0.00467072 0.00467927 0.004679326 0.004679326 0.004678457 0.004678457 0.004678457 0.004678457 0.004678457 0.004773912 0.004773912 0.004730157 0.004730157 0.004730157 0.004730157 0.004730157 0.004730157 0.004730157 0.004730157 0.004730157 0.004730157 0.004730157 0.004730157 0.004730157 0.004730157 0.004730157 0.004730157 0.0047330157 0.0047731057 0.0047731057 0.0047731057 0.0047731057 0.0047731057 0.0047731057 0.0047731057 0.0047731057 0.0047731057 0.0047731057 0.0047731057 0.0047731057 0.0047731057 0.0047731057 0.0047731057 0.0047731057 0.0047731057 0.0047731057 0.0047731057 0.004770157 0.004770157 0.004770157 0.004770157 0.004770157 0.004770157 0.004770157 0.004770157 0.004770157 0.004770157 0	0.025992588 0.02600381 0.02600381 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601669 0.02601780 0.026131788 0.026131788 0.026131788 0.026131788 0.026131788 0.026131780 0.026131780 0.026131780 0.02631781 0.02631782 0.02631782 0.02631782 0.02631782 0.02631782 0.02631782
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LINCED SIRPG CTAPAT SLCSSB4 FAMSRC ANAPC11 PYGM MS3 SIC CFAP46 SIC CFAP46 SIC SIC SIC SIC SIC SIC SIC SI	1755.002906 3160.121486 163.0009746 52.65900706 2132.799052 1584.367632 3357.318824 1277.5147 326.5288043 1910.416602 2181.69008 1176.170915 4451.56723 218.69008 1176.170915 2451.56723 222.4288973 158.4519162 4947.2511672 322.4288973 128.652604 1178.708307 2742.568275 805.8811245 1018.4632604 1018.632605	-0.282480119 -0.44223400 -0.44223400 -1.077224782 -1.076392288 -0.20513479 -0.382732241 -0.414853348 -0.844952888 -0.956557807 -0.544799900 -0.671975088 -0.222228554 -0.311467626 -0.531022457 -0.53108786 -0.38150786 -0.38150786 -0.38150786 -0.38150786 -0.203388993 -0.948711725 -0.3411977850 -0.203388993 -0.948711725 -0.203388993 -0.948711725 -0.203388993 -0.948711725 -0.203388993 -0.92734773500	0.099846021 0.156330765 0.386802526 0.380802526 0.30558788 0.077256234 0.138850345 0.13870395 0.338401905 0.1397053878 0.137782393 0.077863505 0.1102800477 0.18809857 0.13501301 0.13501301 0.13501301 0.13501301 0.13501301 0.071334197 0.336178417 0.310137 0.310137 0.310137	-2.829157513 -2.82965761 -2.82824851 -2.8283774 -2.8283776 -2.8283776 -2.828457076 -2.828457076 -2.828457076 -2.828457076 -2.828457076 -2.8284508200	0.00467072 0.00467072 0.00467072 0.004671326 0.00467327 0.004677297 0.004677297 0.004677297 0.004677297 0.004770312 0.004770312 0.0047703157 0.004703157 0.004703157 0.004703157 0.004703157 0.004703157 0.004703157 0.004703157 0.004703157 0.004703157 0.004703157 0.004703157 0.004703157 0.0047	0.025992588 0.025609383 0.025609383 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.026131798 0.026131798 0.026131798 0.026131798 0.026131798 0.02617931 0.02621994 0.026314001
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LINCEID SIRPG CEAPAT SLCSSB4 FAMSRC ANAPCII PTGM MRS SIC CEAPAG TIMMIS BEARAIT UCPS MEIOC SLCSBAT PEGAP MEIOC SLCSBAT MEIOC SLCSBAT MEIOC SLCSBAT MEIOC SLCSBAT MEIOC SLCSBAT MODIP ROLT NUMNIS COPA WESSE COPA COPA SPSS4 SECGIG TIMMIS SMRTN LINCEIL LINCEIL LINCEIL SMRTN LINCEIL SMRTN LINCEIL LINCEIL SMRTN SMRTN LINCEIL SMRTN SMRTN LINCEIL SMRTN	1755.002906 3161.21466 163.0069746 52.6590706 52.6590706 53.33.7318326 1327.75167 326.528003 1391.416692 281.69008 1176.179018 4451.56728 1106.384587 35.3451916. 14947.2517 128.63208 1176.709307 1274.58527 128.63288 1176.793807 1274.58527 128.63288 1176.793807 1274.58527 128.63288 1176.793807 1177.793807 1178.793807 1178.793807 1178.793807 1178.793807 1178.793807 1178.793807 1191.793807 1191.793807	-0.282480119 -0.44225400 -0.44225400 -1.077224782 -1.076912288 -0.20513427 -0.3927232241 -0.414853436 -0.444952800 -0.595557897 -0.544799900 -0.671975088 -0.222218554 -0.311467626 -0.353108786 -0.381267876 -0.38136786	0.099846021 0.156330765 0.380602326 0.38058788 0.077256243 0.017256243 0.138850345 0.146700229 0.298921180 0.338940190 0.137782399 0.077865305 0.1102706377 0.137076378 0.137076378 0.137076378 0.137076378 0.137076378 0.1370763881 0.109365305 0.109365305 0.1109365305 0.1109365305 0.1109365305 0.1109365305 0.1109365305 0.1109365305 0.1109365305 0.1109365305 0.1109365305 0.1109365305 0.1109365305 0.1109365305 0.109365301 0.09365301 0.09365301	-2.829157513 -2.829157513 -2.82824851 -2.82824851 -2.82824851 -2.8282485076 -2.828263776 -2.82926396 -2.82667455 -2.82667455 -2.82667455 -2.8262836 -2.826836 -2.82	0.00467072 0.00467072 0.00467072 0.004671926 0.004677397 0.004677397 0.004677397 0.004677397 0.00473047 0.00473047 0.00473047 0.00473047 0.00473047 0.00473047 0.00473057	0.025992588 0.025609383 0.025600838 0.02601658 0.02601658 0.02601658 0.02601658 0.02601658 0.02601658 0.02601658 0.02601658 0.02601658 0.02601658 0.02601658 0.02611793 0.02611793 0.02621694 0.02621694 0.02621694 0.02621694 0.02621694 0.02621694 0.02621694 0.02621695 0.02621695 0.02621695 0.02621695 0.02621695 0.02621695 0.02621695 0.02621755 0.02621755 0.02621755 0.02621755 0.02621755 0.02621755 0.02621755 0.02621755 0.02621755 0.02621755 0.02621755 0.02621755 0.02621755 0.02621755
LINCED SIRPG CEAPAT SLC3984 FAA698C ANAPC11 PFGM H983 SIC CORA65 TRM13 BARAMI UCP3 MEIOC SLC390A7 PSG2 FUC/2 MOV19 BOG17 NARIV2 NARIV2 NARIV2 SCC616 TIMM99 SCC616 TIMM999 AGAP6 SIRPG AGAP6	1755.002506 3160.12148 163.0069746 52.45500706 2132.799052 1584.367632 3357.318824 1277.51472 126.5288043 191.416607 218.169008 1175.1175.1175.1175.1175.1175.1175.1175	-0.282480119 -0.44223400 -0.44223400 -1.077244782 -1.076392288 -0.205134378 -0.382732241 -0.414853343 -0.844952888 -0.956557807 -0.544799900 -0.679975089 -0.222218554 -0.313167562 -0.513027845 -0.313167562	0.099846021 0.15633076 0.386807326 0.386807326 0.38056738 0.077526245 0.138850345 0.16470023 0.298921189 0.338401905 0.192765379 0.37782393 0.0778653305 0.110280447 0.138706376 0.13800467 0.13801467 0.13810176 0.13810176 0.13810176 0.13810176 0.13810176 0.13810176 0.13810176 0.13810176 0.13810176 0.13810176 0.13810176 0.13810176 0.13810176 0.13810176 0.139255294 0.095571112 0.0955571112 0.0955571112 0.0197658818	-2.829157513 -2.8295760 -2.82824851 -2.8283774 -2.828457076 -2.82824776 -2.82824776 -2.82824776 -2.82824776 -2.82824776 -2.82824776 -2.82824776 -2.8282476	0.00467072 0.00467072 0.00467072 0.004671326 0.00467326 0.00467327 0.004677297 0.004677297 0.004677297 0.004677397 0.00473137	0.02592588 0.026600380 0.02601686
LINCEID SIRPG CEAPAT SLCSSB4 FAMSRC ANAPCII PTGM MS3 SIC CEAPAG TIMMIS BARAMI BARA	1755.002506 3161.21246 16.30059746 52.65500705 2132.79905 2132.79905 1584.367632 3357.318824 1277.6147. 326.5288043 1910.416602 281.660088 1176.179018 4451.567283 130.485156728 1176.179018 1176.1790	-0.282480119 -0.44225400 -0.44225400 -1.077224782 -1.076392288 -0.205134379 -0.392732241 -0.414853438 -0.944952800 -0.95557897 -0.544799900 -0.671975088 -0.222218554 -0.311467526 -0.331106786 -0.331106786 -0.331106786 -0.331106786 -0.33130786 -0.331377328 -0.33130786 -0.331377328 -0.33133728 -0.33133728 -0.331731372 -0.331731372 -0.331731372 -0.331731372 -0.331731372 -0.331731372 -0.331731372	0.099846021 0.156330765 0.380602326 0.380585781 0.07725623 0.138850345 0.146700229 0.298921180 0.338748239 0.078653505 0.1102064778239 0.078653505 0.1102064778239 0.078653505 0.1102064778239 0.078653505 0.1102064778239 0.138809857 0.13810177 0.13810177 0.13810177 0.13810177 0.109766851 0.059855230 0.093557311 0.096751003 0.21813302 0.21813302 0.21813302 0.21813302 0.21813302 0.21813302 0.21813302 0.21813302 0.21813302 0.21813302 0.21813302 0.21813302 0.21813302	-2.829157513 -2.82965702 -2.82824851 -2.82824774 -2.828457076 -2.828457076 -2.82967454 -2.82967454 -2.82967454 -2.82967454 -2.82967454 -2.82967454 -	0.00467072 0.00467072 0.00467926 0.00467327 0.00467737 0.00467737 0.00467737 0.00467737 0.00470317 0.00470317 0.00470317 0.00470317 0.00470317 0.00470317 0.00470317 0.00470317 0.00470317 0.00470317 0.00471317 0.00471317 0.00473117	0.025992588 0.025092588 0.025003930 0.0261058 0.02601688 0.02601688 0.02601688 0.02601688 0.02601688 0.02601688 0.02601688 0.02601688 0.02601688 0.0260168899 0.02610999 0.02633861 0.02633861 0.02633862 0.02633862 0.02633867 0.026346762 0.02634762 0.02634762 0.02634762 0.02634762 0.02634762 0.02634762 0.02634762 0.02634762 0.02634762 0.02634762 0.02634762 0.02634762 0.02634762 0.02634762 0.02634762 0.02634762 0.02634762 0.0263762
LINCED SIRDE CEAPAT SLCSSSA FLAMSEC ANAPCLI PYGM MES SIC CEAPAT SIC SIC SIC SIC SIC SIC SIC SI	1755.002505 3160.12148 163.0059746 52.6500705 1583.367632 3357.31832 3357.31832 3357.31832 1277.5147 326.528043 1910.416607 281.660008 1175.170915 24.650008 1175.170915 24.8751167 35.8451916 24.8751167 324.8751167 324.8751167 324.8751167 324.8751167 324.8751167 324.8751167 324.8751167 324.8751167 324.8751167 324.8751167 324.8751167 324.8751167 324.8751167 325.8751167 325.8751167 326.8751167 327.8751	-0.282480119 -0.44223400 -0.44223400 -1.077224782 -1.076392288 -0.205134378 -0.392732241 -0.414853436 -0.844952889 -0.954557897 -0.54479990 -0.272218554 -0.311467626 -0.3131687626 -0.313168762 -0.331367890 -0.27218554 -0.341278509 -0.273774281 -0.557138782 -0.257374781 -0.557138782 -0.257374781 -0.577137890 -0.307375902 -0.37774281 -0.577137890	0.099846021 0.15633076 0.386802926 0.380568788 0.0772526245 0.13850345 0.146700229 0.798921189 0.338401905 0.197765379 0.377782939 0.077853505 0.110280477 0.13800477 0.13800477 0.138101074 0.1280477 0.13810177 0.13810174 0.10878858187 0.1097885819 0.098573101 0.098573101 0.098573101 0.098573101 0.098573101 0.098573101 0.0197858389	-2.829157513 -2.8295760 -2.82824851 -2.8283776 -2.82824851 -2.8283776 -2.82657076 -2.8790289 -2.82667454 -2.82667454 -2.82667454 -2.82667454 -2.82667454 -2.82667454 -2.82667454 -2.82667454 -2.82667454 -2.82524819 -2.82524819 -2.82524776 -2.825247748 -2.822247748 -2.8224	0.00467072 0.00467072 0.00467072 0.004671326 0.00477379 0.004677327 0.004677327 0.004677327 0.004677327 0.0047327 0.0047527 0.0047527 0.0047527 0.0047527 0.0047527 0.0047527 0.0047527 0.0047527 0.0047527 0.0047527 0.0047527 0.0047527 0.0047527 0.0047527 0.0047527 0.0047527 0.0047527 0.0047527 0.0047527 0.0047527	0.02592588 0.026600818 0.026603803 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02613793 0.02613793 0.02613793 0.02613793 0.02633651 0.02633651 0.02633651 0.02633651 0.02633651 0.02633651 0.02633652 0.02638587
LINCEID SIRPG CEAPAT SLCSSB4 FAMSRC ANAPCII PTGM MS3 SIC CEAPAG TIMMIS BARAMI BARA	1755.002506 3161.21246 16.30059746 52.65500705 2132.79905 2132.79905 1584.367632 3357.318824 1277.6147. 326.5288043 1910.416602 281.660088 1176.179018 4451.567283 130.485156728 1176.179018 1176.1790	-0.282480119 -0.44225400 -0.44225400 -1.077224782 -1.076392288 -0.205134379 -0.392732241 -0.414853438 -0.944952800 -0.95557897 -0.544799900 -0.671975088 -0.222218554 -0.311467526 -0.331106786 -0.331106786 -0.331106786 -0.331106786 -0.33130786 -0.331377328 -0.33130786 -0.331377328 -0.33133728 -0.33133728 -0.331731372 -0.331731372 -0.331731372 -0.331731372 -0.331731372 -0.331731372 -0.331731372	0.099846021 0.156330765 0.380602326 0.380585781 0.07725623 0.138850345 0.146700229 0.298921180 0.338748239 0.078653505 0.1102064778239 0.078653505 0.1102064778239 0.078653505 0.1102064778239 0.078653505 0.1102064778239 0.138809857 0.13810177 0.13810177 0.13810177 0.13810177 0.109766851 0.059855230 0.093557311 0.096751003 0.21813302 0.21813302 0.21813302 0.21813302 0.21813302 0.21813302 0.21813302 0.21813302 0.21813302 0.21813302 0.21813302 0.21813302 0.21813302	-2.829157513 -2.82965702 -2.82824851 -2.82824774 -2.828457076 -2.828457076 -2.82967454 -2.82967454 -2.82967454 -2.82967454 -2.82967454 -2.82967454 -	0.00467072 0.00467072 0.00467926 0.00467327 0.00467737 0.00467737 0.00467737 0.00467737 0.00470317 0.00470317 0.00470317 0.00470317 0.00470317 0.00470317 0.00470317 0.00470317 0.00470317 0.00470317 0.00471317 0.00471317 0.00473117	0.025992588 0.025092588 0.025003930 0.0261058 0.02601688 0.02601688 0.02601688 0.02601688 0.02601688 0.02601688 0.02601688 0.02601688 0.02601688 0.0260168899 0.02610999 0.02633861 0.02633861 0.02633862 0.02633862 0.02633867 0.026346762 0.02634762 0.02634762 0.02634762 0.02634762 0.02634762 0.02634762 0.02634762 0.02634762 0.02634762 0.02634762 0.02634762 0.02634762 0.02634762 0.02634762 0.02634762 0.02634762 0.02634762 0.0263762
LINCED SIRPG CIAPAT SLC3984 FAM9RC ANAPC11 PYGM H83 SRC CIAPAS MRO19 ANOTO NARIV NARIV NARIV SRC COPA WRO12 COPA WRO19 MRO19 MG19 MG17 NARIV NARIV NARIV NARIV NARIV NARIV SRC COPA WRO19 MG19 MG19 MG19 MG19 MG19 MG17 NARIV NARIV NARIV NARIV LIAPAS COPA MG19 MG19 MG19 MG17 NARIV NARIV LIAPAS COPA MG19 MG	1755.002506 3160.12148 163.0069746 52.4500705 1584.367632 3357.31824 1277.51472 126.5288043 1277.51472 126.5288043 1277.51472 126.5288043 1277.51472 126.5288043 1277.51472 126.5288043 1277.51472 126.5288043 1277.51472 126.5288043 1277.51472 126.5288043 1277.51472 1278.64000000000000000000000000000000000000	0.282480119 0.44223400 1.07724782 1.076392288 0.205134379 0.382732241 0.414853438 0.984952889 0.95557807 0.544799900 0.222218554 0.31147564 0.513027247 0.533106789 0.222218550 0.3841827560 0.3841841846 0.384183930	0.099846021 0.15633076 0.386807326 0.386807326 0.385807326 0.318560345 0.16700229 0.298921189 0.338401905 0.192765379 0.3782339 0.078653505 0.113080477 0.135100564 0.280095304 0.11410913400 0.071314179 0.36178417	-2.829157513 -2.8295760 -2.82824551 -2.8283776 -2.8283776 -2.8283776 -2.82667456-5 -2.82667456-5 -2.82667456-5 -2.82667456-5 -2.82667456-5 -2.82667456-5 -2.82667456-5 -2.82524519 -2.82524519 -2.82524519 -2.82524519 -2.82524519 -2.82524519 -2.82524519 -2.82524743 -2.82524743 -2.82524743 -2.82524758 -2.82177555 -2.821765555 -2.8217655 -2.8217655 -2.8217655 -2.8217655 -2.8217655 -2.8217655 -2.8217655 -2.8217655 -2.8217655 -2.8217655 -2.8217655 -2.8217655 -2.82176 -2.82176 -2.82176 -2.82176 -2.82176 -2.82176 -2.8	0.00467072 0.00467072 0.00467072 0.00467857 0.00477877 0.004677297 0.004677297 0.004677297 0.004677297 0.004677297 0.004773017 0.004773017 0.004773017 0.00473017 0.00473017 0.00473017 0.00473018 0.00473305 0.00481385 0.00481365 0.00483852 0.00483852	0.025992388 0.025992388 0.02600689 0.02600689 0.02601686 0.02601686 0.02601686 0.02601686 0.02601686 0.02601686 0.02601686 0.02601686 0.02601686 0.02601686 0.026131798
LINCEID SIRPG CTAPAT SLC3584 FAMBEC ANAPCLI PYGM HIS3 SIC CTAPA6 TIMMI3 BRANKI UCP3 BROOT SLC38A7 PSG2 FUCA2 MYO19 RODY NRIPC NRIPC NRIPC NRIPC SUSSAN7 SUSSAN7	1795.002965 3160.121465 163.0069744 52.6500706 2132.79052-1 1584.367632 3357.318824 1277.51477 326.528043 1910.416602 281.600008 1176.170014 4545.1567281 100.6384537 358.84519167 4947.75152 24.82511677 3722.278877 1728.4632404 1177.708307 2742.582774 579.956797 8058.814976 1018.8144725 2438.16800 638.9447555 579.956797 805.811877 778.85579 805.4191398 3775.3496441 190.5196553 5777.385526 5777.385526 5777.385526 5777.385526 5777.385526 5777.3855.9515555 5777.385526 5777.385526 5777.385526 5777.385526 5777.385526 5777.385526 5777.385526 5773.385948775 5773.385775	0.282480119 0.44223402 1.07724782 1.076392288 0.205134377 0.392722241 0.414853436 0.484952889 0.996537899 0.54479990 0.647979008 0.22221855 0.331657890 0.79002709 0.79002709 0.38431208807 0.79002709 0.20138999 0.948711721 0.367354781 0.562118629 0.277778590 0.277775900 0.277775900 0.277775900 0.277775900 0.39734781 0.562118629 0.28385889 0.277776999 0.397377426 0.479662874	0.099846021 0.15633076 0.3806607326 0.3806607326 0.380560738 0.077526245 0.13885045 0.146700029 0.398921189 0.338401905 0.10277782339 0.07865350 0.11028047 0.180703365 0.180800877 0.137762393 0.07865350 0.10291402 0.07133419 0.1307134519	-2.829157513 -2.8295760 -2.828624551 -2.82862765 -2.82862765 -2.82767026 -2.82	0.00467932 0.00467926 0.00467932 0.00467932 0.00467932 0.00467932 0.00467932 0.00467932 0.00467932 0.00473312 0.00473312 0.00473312 0.00473325 0.0047325 0.00475 0	0.02592588 0.026600818 0.02660088 0.0261068 0.0261068 0.0261068 0.02601686 0.02601686 0.02601686 0.02601686 0.02601686 0.02601686 0.02601686 0.02601686 0.02601686 0.026117991
LINCEID SIRPG CEAPAT SLCSSB4 FAMSRC ANAPCII PTGM MRS SIC CEAPAG SIC CEAPAG TIMMI3 BEANMI UCP3 MEIOC SLCSBA7 PSG 2 FUCR2 MMO19 REDIT NERUS COPA MO19 REDIT NERUS COPA WFS54 STCC STCSBA7 STCSB	1755.002906 3160.121486 163.0009746 52.65900706 2132.799052 1584.367632 3357.318824 1277.5147 326.5288043 1910.416602 2181.69008 1176.170915 4451.567283 130.484587 35.48519162 242.288877 1286.652804 1176.170915 4451.567283 120.484587 35.48519167 322.42.288877 1286.652804 11778.708307 12742.56827 1286.652804 1178.708307 12742.56827 1286.652804 1178.708307 1291.779257 1805.811245 1018.462280 1291.779257 1805.811245 1019.779257 1805.811245 1905.91657 1905.779357 1905.779357 1905.779357 1905.779357 1905.77935296 1553.651677 358.9488793 1580.5888793 1580.5888793 1680.58888793 1680.58888793 1680.58888793 1680.58888793 1680.58888793 1680.58888793 1680.58888793 1680.58888893	0.282480119 0.44223400 0.44223400 1.077224782 1.076392288 0.20513479 0.392732241 0.414853438 0.4846952889 0.956557897 0.544799900 0.671975088 0.222218554 0.311467526 0.351202457 0.533108786 0.381208765 0.393858757 0.39487117500 0.394871172500 0.394871172500 0.394871172500 0.39735962 0.2973481782 0.2973481782 0.2973481782 0.2973481782 0.2973481782 0.2973481782 0.2973481782 0.2973481782 0.2973481782 0.2973481782 0.2973481782 0.2973481782 0.2973481782 0.2973487	0.099846021 0.156330765 0.386802526 0.380802526 0.30055788 0.077256243 0.138850345 0.138780395 0.298921185 0.338403905 0.139765375 0.139765375 0.110280477 0.13073655 0.13880987 0.13780239 0.07334197 0.336178417 0.109766861 0.105985252 0.0935571012 0.093557311 0.096751012 0.110998529 0.109766861 0.1059852529 0.298186299 0.1097614519 0.109766861 0.109765681 0.109765681 0.109765681 0.109765681 0.109765681 0.109765681 0.109765681 0.109765681	-2.829157513 -2.82965706 -2.8284517 -2.8283774 -2.828457076 -2.828457076 -2.828457076 -2.828457076 -2.828457076 -2.828457076 -2.828457076 -2.828457076 -2.8284510 -2.	0.00467072 0.00467072 0.00467072 0.00467327 0.00467327 0.004677297 0.004677297 0.004677297 0.004677297 0.004677297 0.004677297 0.004677297 0.004703127 0.004703127 0.004703127 0.004703127 0.004713295 0.004713295 0.004713295 0.004713295 0.004713295 0.004713295 0.004773297 0.00476411 0.004764512 0.004773295	0.025992588 0.0256902588 0.025603893 0.02603893 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.026016890
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LINCED SIRPG CIAPAT SLCSSSA FAMSEC ANAPCII PYGM MRS SEC CIAPAS MEIOC SLCSSA MEIOC GDPA MEIOC MEIOC GDPA MEIOC	1755.002506 3160.12148 163.0069746 52.6500705 1363.07632 3357.31826 1277.5147 326.528003 1191.416602 281.609008 1175.170918 4451.572 281.609008 1176.170918 35.4851916 35.4851916 35.4851916 35.4851916 36.851243 1178.78800 2742.58274 579.582677 579.58267 579.5	0.282480119 0.44223400 0.44223400 1.07724782 1.07639228 0.20513428 0.20513428 0.382732241 0.414853438 0.84492388 0.956557807 0.54479990 0.54479990 0.54479990 0.531027247 0.533102780 0.38128725 0.331407800 0.79082769 0.38285725 0.341407800 0.263855880 0.277736909 0.38777428 0.437768090 0.3877748909 0.387251407 0.385251407	0.09984071 0.15633076 0.380807328 0.380807328 0.380807328 0.380807328 0.380807328 0.13880345 0.14670029 0.298971189 0.338401905 0.1397653395 0.1397653395 0.130803467 0.138103176379 0.131810064 0.280095300 0.10109768831 0.10109768831 0.10109768831 0.10109768831 0.10109768831 0.10109768831 0.10109768831 0.1010976831 0.1010976831 0.1010976831 0.1010976831 0.1010976831 0.1010976831 0.1010976831 0.1010976831 0.1010976831 0.1010976831 0.1010976831 0.1010976831 0.1010976831 0.1010976831 0.1010976831 0.1010976831 0.1010976831 0.1010976831 0.1010976831	-2.829157513 -2.829157513 -2.829157513 -2.82824851 -2.82824774 -2.82815762 -2.82824851 -2.82824851 -2.82824851 -2.82824851 -2.828267076 -2.82790289 -2.82824851 -2.8282602113 -2.82824819 -2.82824819 -2.82824819 -2.82824819 -2.82824819 -2.82824819 -2.828247588 -2.8282478 -2.8282478 -2.8282478 -2.8282478 -2.8282478 -2.8282478 -2.8282478 -2.8282478 -2.8282478 -2.8282488 -2.8282488 -2.8282488 -2.8282488 -2.8282488 -2.8282488 -2.8282488 -2.8282488 -2.8282488 -2.8282488 -2.8282488 -2.8282488 -2.8282488 -2.8282488 -2.8282488 -2.8282488 -2.82824888 -2.8282488 -2.82	0.00467072 0.00467072 0.00467072 0.00467072 0.00467326 0.00477837 0.004677397 0.004677397 0.004677397 0.00477388 0.0047388 0.00473886 0.00473886 0.00473886 0.00473886 0.00473886 0.00473886 0.00473886 0.00473886 0.00473886 0.00473886 0.00473886 0.00473886 0.00473886 0.00473886 0.00473886 0.00473886 0.00473886 0.004738986 0.004738986 0.004785966 0.004785966 0.004785966 0.004785966 0.004785966 0.004785966 0.004785966 0.004785966 0.004785966 0.004785966 0.004815486 0.004815486 0.004815486 0.004815486 0.004815486 0.004885566 0.004885566 0.004885566 0.004885566	0.025992588 0.025992588 0.02600689 0.02600689 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.026117999 0.026117999 0.026117999 0.026117999 0.026117999 0.026117999 0.026117999 0.026117999 0.026117999 0.026117999 0.026117999 0.026117999 0.02611799
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LINCED SIRPG CIAPAT SLC3984 FAM98C ANAPC11 PYGM H83 SRC CIAPAS CIAPAS CIAPAS CIAPAS CIAPAS CIAPAS CIAPAS CIAPAS CONTROL CIAPAS	1755.002506 3160.12148 163.0069746 52.4500705 1584.367632 3357.31824 1277.51472 126.5288043 1277.51472 126.5288043 1277.51472 126.5288043 1277.51472 126.5288043 127.51572 126.65008 1175.170018 1275.288243 1275.	-0.282480119 -0.44223400 -0.44223400 -1.07724782 -1.076392283 -1.076392284 -0.41853436 -0.844952889 -0.95557807 -0.544799900 -0.671975089 -0.222218554 -0.314072647 -0.5331067890 -0.790827655 -0.34137960 -0.20138999 -0.20138999 -0.20138999 -0.20138999 -0.507747818 -0.56218628 -0.37775909 -0.307735902 -0.307735902 -0.307735902 -0.307735902 -0.307737609 -0.307737609 -0.307775909 -0.307778909 -0.307778909 -0.307778909 -0.307778909 -0.307778909 -0.307778909 -0.307778909 -0.307778909 -0.307778909 -0.307778909 -0.30777897500 -0.307778909 -0.307778909 -0.307778909 -0.307778909 -0.3077789750 -0.307789750	0.099846021 0.15633076 0.386807326 0.386807326 0.386807326 0.3876807326 0.138850345 0.146700229 0.298921189 0.338401905 0.192765377 0.1307638047 0.138763326 0.138809857 0.131010064 0.280095304 0.141099458 0.120013407 0.73134197 0.36178137 0.130768881 0.109768881 0.10976881	-2.829157513 -2.829157513 -2.829157513 -2.82824551 -2.82824751 -2.828247576 -2.82767656 -2.82767676 -2.82767676 -2.82767676 -2.82767676 -2.82767676 -2.82767767 -2.8276777 -2.8276777 -2.8276777 -2.8276777 -2.8276777 -2.8276777 -2.8276777 -2.8276777 -2.8276777 -2.8276777 -2.827677 -2.827677 -2.827677 -2.827677 -2.827677 -2.827677 -2.827677 -2.827677 -2.827677 -2.827677 -2.827677 -2.827677 -2.827677 -2.827677 -2.827677 -2.827677 -2.827677 -2.827677 -2.82767 -2.827	0.00467072 0.00467072 0.00467072 0.00467857 0.00477877 0.004677297 0.004677297 0.004677297 0.004677297 0.004677297 0.004773057 0.004773057 0.00473057 0.00473057 0.00473057 0.00473058 0.004733058 0.004733058 0.004733058 0.004733058 0.004733058 0.004733058 0.004733058 0.004733058 0.004733058 0.004733058 0.004733058 0.004733058 0.004733058 0.004733058 0.004733058 0.004735058 0.004735058 0.004735058 0.004735058 0.00481368	0.025992388 0.025992388 0.026003930 0.026005030 0.02601666 0.02601666 0.02601666 0.02601666 0.02601666 0.02601666 0.02601666 0.02601666 0.02601666 0.02601766 0.026131798 0.026131798 0.026131798 0.026131798 0.026131798 0.02633460 0.02633460 0.02633460 0.02633460 0.026334762 0.02633460 0.026334762 0.0263360 0.026363776 0.026
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LINCED SIRPG CIAPAT SLCSSB4 FAMSEC ANAPC11 PYGM HS3 SEC CIAPAG SEC SEC SEC SEC SEC SEC SEC SE	1755.002906 3160.12148 163.0069746 52.6500705 1361.012148 163.0069746 52.6500705 1384.367632 3357.318824 1277.61472 326.528003 1191.416602 281.69008 1176.170918 4451.5721 100.6374537 33.54519102 447.25152 248.2511671 3222.4298872 1284.63200 1178.78307 2742.585279 805.8811245 2488.16870 638.9487765 579.951678 1917.779257 805.8111245 1918.642158 1918.642	0.282480119 0.44223400 0.44223400 1.07724782 1.076392288 1.076392288 0.20513477 0.382732241 0.414853438 0.3844922889 0.956557807 0.544799900 0.671975089 0.22221855-0 0.3146756247 0.5131027864 0.314107865 0.314107866 0.38438752 0.341107866 0.38438752 0.341107866 0.367375267 0.37737520 0.3773752 0.3773752 0.3773752 0.37737780 0.377377809 0.377778090 0.377789090 0.377789090 0.3777867560 0.37778789090 0.377789090 0.377789090 0.377789090 0.377789090 0.377789090 0.377789090 0.377789090 0.377789090 0.377789090 0.377789090 0.377789090 0.377789090 0.377789090 0.377789090 0.377789090 0.377789090 0.377789090 0.377789090 0.392251407 0.3351614868 0.3777889090 0.392251407 0.3362719090 0.3362719090 0.3362719090 0.3362719090 0.3362719090 0.3362719090 0.3362719090 0.3364819350 0.5378819300 0.5478988454	0.09984071 0.15633076 0.386807526 0.386807526 0.386807526 0.38580355 0.13850345 0.146700279 0.298921189 0.338401907 0.13875305 0.138703407 0.138703407 0.138703407 0.138703407 0.138808877 0.138808877 0.13901064 0.280095300 0.14100914300 0.171314197 0.36171017 0.36171017 0.1097586811 0.109858811 0.109858811	-2.829157513 -2.829157513 -2.829157513 -2.82824551 -2.82824551 -2.82824551 -2.82824551 -2.82824551 -2.82824551 -2.82824551 -2.82824551 -2.82824552 -2.82824552 -2.82824552 -2.828245252 -2.828245252 -2.828245252 -2.828245252 -2.82824758	0.00467072 0.00467072 0.00467072 0.00467072 0.00467326 0.00477297 0.004677297 0.004677297 0.004677397 0.00477388 0.00477388 0.00473888 0.00473888 0.00473888 0.00473888 0.00473888 0.00473888 0.00473888 0.00473888 0.00473888 0.00473888 0.00473888 0.00473888 0.00473888 0.00473888 0.00473888 0.00473888 0.00473888 0.00473888 0.004785968 0.004785968 0.004785968 0.004785968 0.004785968 0.004785968 0.004785968 0.004888830 0.004888830 0.004888830 0.004888960 0.004888960 0.004888960 0.004888960	0.02592588 0.026603893 0.02601688 0.02601688 0.02601688 0.02601688 0.02601688 0.02601688 0.02601688 0.02601688 0.0260168897 0.026131798 0.026131798 0.026131798 0.026131798 0.026131798 0.0263131798 0.027079813
LINCED SIRDE CIPAPAT SLCSSB4 FAMSBC ANAPCLI PFGM WS3 SIC CIPAPAT SLCSSB4 FAMSBC ANAPCLI PFGM WS3 SIC CIPAPAT SIC SIC SIC SIC SIC SIC SIC SI	1755.002505 3160.121465 163.0039746 52.6500705 1184.367632 3357.31832 3357.31832 3357.31832 3357.31832 3157.31832 326.528303 11710.105038 1171.107038 1281.56728 100.6384587 328.458512 248.158512 248.158512 248.158512 248.158512 248.158512 248.158512 259.5431871 278.852507 378.852507	0.282480119 0.44223401 0.44223401 0.407234782 1.07632288 0.205134378 0.392732241 0.414853438 0.205134378 0.392732241 0.44853438 0.2484952889 0.2595357890 0.54479990 0.54479990 0.522218555 0.311467626 0.311208607 0.790527695 0.343307765 0.343307765 0.343307765 0.363337765 0.3633377626 0.263385889 0.27275900 0.3777426 0.3777478002 0.38777426	0.099846021 0.15633076 0.3808607392 0.380560783 0.0772526245 0.118850345 0.146700023 0.299921189 0.338401905 0.1192765379 0.377263373 0.077853539 0.077853539 0.078053509 0.110308047 0.13103179 0.3384178617 0.31103179 0.3384178617 0.31103179 0.3384178617 0.31103179 0.3384178617 0.31103179 0.3384178617 0.3385086239 0.099573101 0.099673101 0.109185388 0.119253599 0.1091853888 0.119253599 0.1091853888 0.119253599	-2.829157513 -2.8293776 -2.82837451 -2.82837776 -2.82837776 -2.82837776 -2.82937776 -2.82937776 -2.82937776 -2.82937776 -2.82937776 -2.82937776 -2.82937778 -2.8293787 -2.82937878 -2.82323799 -2.823234596 -2.8232477185 -2.82247788 -2.8224788 -2.8224788 -2.8234888 -2.82348888 -2.823488888 -2.823488888 -2.8234888888 -2.8234888888 -2.8234888888 -2.8234888888 -2.8234888888 -2.8234888888 -2.8234888888 -2.823488888888 -2.82348888888 -2.82348888888 -2.82348888888888888888888888888888888888	0.00467072 0.00467072 0.00467072 0.004671326 0.004671327 0.004677327 0.004677327 0.004677327 0.004677327 0.004677327 0.004677327 0.00473327 0.00473327 0.00473327 0.00473328 0.00473329 0.00473328 0.00473329 0.00473329 0.00473329 0.00473329 0.00473329 0.00473329 0.004729 0.004729 0.004729 0.004729 0.004729 0.004729	0.025902588 0.025602588 0.026003801 0.02601658 0.02601658 0.02601658 0.02601658 0.02601658 0.02601658 0.02601658 0.02601658 0.02601658 0.02611078 0.027611078
LINCED SIRPG CEAPAT SLCSSB4 FAMORC ANAPC11 PYGM MS3 SIC CFAPAG SIC CFAPAG SIC CFAPAG SIC CFAPAG SIC CFAPAG TIMM13 BORAMI UCP3 MEIOC SLCSSB7 MEIOC MINOR MEIOC COPA WESSA MINOR MEIOC COPA WESSA MINOR MEIOC COPA WESSA SMITH LINCE LINCE LINCE COPA MEIOC SMITH SMIT	1755.002906 3160.12148 163.0069746 52.6590705 2132.799052 1584.367632 3357.318826 1277.61477 326.5288043 1910.416602 218.69008 1176.179018 4451.55728 1108.4551.55728 1108.4551.55728 1108.4551.55728 1108.45728 1108.45728 11178.798307 1178.798307 1178.798307 1178.798307 1178.798307 1178.798307 1178.798307 1178.798307 1188.51807 11	0.282480119 0.44223400 0.44223400 1.07724782 1.076392288 1.07724782 1.076392288 0.20513477 0.382732241 0.414853348 0.484952888 0.985557897 0.544799900 0.671975089 0.222221855- 0.33114676247 0.533168762 0.3311676247 0.533168780 0.38487872 0.331167865 0.207341781 0.567118782 0.263885889 0.277756999 0.36775674 0.36775674 0.36775674 0.36775674 0.377766841 0.3777766841 0.387756841 0.387756841 0.387756841 0.387756841 0.387756841 0.387756841 0.387756841 0.387756841	0.09984071 0.15633076 0.380807526 0.380807526 0.380807526 0.3753625 0.138850345 0.16700252 0.298921189 0.338401907 0.192765377 0.137625307 0.1102703167 0.137625307	-2.829157513 -2.82985989 -2.82824851 -2.8283774 -2.82845850 -2.8284576 -2.8285850 -2.828	0.004670727 0.004670727 0.00467827 0.00467827 0.004677297 0.004677297 0.004677297 0.004677297 0.004677297 0.004677297 0.004773127 0.004777 0.004777 0.004777 0.004777 0.00477 0.00477 0.00477 0.00477 0.00477 0.00477 0.00477 0.00477 0.00477 0.0047	0.025992388 0.025992388 0.026003930 0.02600568 0.026003930 0.02600568 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.0260167931 0.026131798 0.026131798 0.026131798 0.026131798 0.026330851 0.026330851 0.026330851 0.026330851 0.026330851 0.026330851 0.026330851 0.026330851 0.026330851 0.026330851 0.026330851 0.026330851 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.0265933081 0.0265933081 0.0265933081 0.0265933081 0.0265933081 0.027095851
LINCEID SINPG CTAPAT SLC3584 FAMSRC ANAPCII PTGM HS3 SIC CTAPA66 TIMM3 BARAMI UCETAPA66 TIMM3 BARAMI UREDC SLC35A7 PSG 2 FUCA2 MYO19 RO17 NKAN2 NR0P2 CODINA TONE	1755.002905 3160.12148 163.0039744 52.6500705 1584.367632 3357.31832 3357.31832 3357.31832 1775.1477 326.2582074 327.25827 328.458217 338.458217 3388.458217 3388.458217 3388.458217 3388.458217 3388.458217 3388.458217 3388.458217 33	0.282480119 0.44225340 1.07724782 1.076392288 0.205134377 0.392722241 0.41485343 0.404952889 0.956557897 0.54479900 0.679975089 0.222218555 0.311467624 0.5133106786 0.31205807 0.790827695 0.314370900 0.201389999 0.964717221 0.201389999 0.96471722 0.201389999 0.96471722 0.201389999 0.96471722 0.201389999 0.96471722 0.201389999 0.96471722 0.201389999 0.96471722 0.201389999 0.96471722 0.201389999 0.96471722 0.201389999 0.96471722 0.201389999 0.96471722 0.201389999 0.96471722 0.201389999 0.96471722 0.201389999 0.96471722 0.201389999 0.96471722 0.201389999 0.96471722 0.201389999 0.96471722 0.201389999 0.96471722 0.201389999 0.96471723 0.201389999 0.96471723 0.201389999 0.96471723 0.201389999 0.30131106 0.30131106 0.30131106 0.30131106 0.30131106 0.30131106 0.30131106 0.30131106 0.3013	0.099846021 0.136380752 0.136380752 0.38056788 0.077526245 0.138850345 0.146700025 0.139871030 0.139871030 0.139871030 0.139871030 0.139871030 0.13090350	-2.829157513 -2.82985961 -2.82824551 -2.82824551 -2.82824551 -2.82824551 -2.82824551 -2.8282457076 -2.82762762 -2.82762762 -2.82762762 -2.82762762 -2.82762762 -2.82762762 -2.82762762 -2.82762762 -2.82762762 -2.8276762 -2.8276762 -2.82767762 -2.8276762	0.00467072 0.00467072 0.00467072 0.004671326 0.004677327 0.004677327 0.004677327 0.004677327 0.004677327 0.004677327 0.004677327 0.004773127 0.00477741 0.004774127 0.00477412	0.02592588 0.026003801 0.026003801 0.02601686 0.02601686 0.02601686 0.02601686 0.02601686 0.02601686 0.02601686 0.02601686 0.02601686 0.02601686 0.02611096 0.026170931 0.02611096 0.026170931 0.026313787 0.026411096 0.026313787 0.026411096 0.026313787 0.026411096 0.026313787 0.026411096 0.026313787 0.026411096 0.026313787 0.026411096 0.026313787 0.026411096 0.026313787 0.026411096 0.026313787 0.026411096 0.026313787 0.026411096 0.026313787 0.026411096 0.026313787 0.026411096 0.026313787 0.026411096 0.026313787 0.026411096 0.026313787 0.026411096 0.026313787 0.026411096 0.026313787 0.026411096 0.026313787 0.026411096 0.02631378 0.02631378 0.02631378 0.02631378 0.02631378 0.02631378 0.02631378 0.02631378 0.02631378 0.02631378 0.02631378 0.02631378 0.02631378 0.02637338
LIRICED SIRPO CTAPAT SLCSISSIA FAMORIC ANAPCII PYGM WS3 SIC CFAPAG MINIS M	1755.002906 3160.12148 163.0069746 52.6590705 2132.799052 1584.367632 3357.318826 1277.61477 326.5288043 1910.416602 218.69008 1176.179018 4451.55728 1108.4551.55728 1108.4551.55728 1108.4551.55728 1108.45728 1108.45728 11178.798307 1178.798307 1178.798307 1178.798307 1178.798307 1178.798307 1178.798307 1178.798307 1188.51807 11	-0.282480119 -0.44223400 -0.44223400 -1.07724782 -1.076392288 -1.076392288 -1.076392288 -1.076392288 -1.076392288 -1.08495288888 -1.0849528888 -1.08495288888 -1.08495288888 -1.084952888888 -1.084952888888 -1.084952888888 -1.084952888888 -1.084952888888 -1.0849528888888 -1.0849528888888 -1.0849528888888 -1.0849528888888 -1.0849528888888 -1.0849528888888 -1.0849528888888 -1.08495288888888888888888888888888888888888	0.09984071 0.15633076 0.380807526 0.380807526 0.380807526 0.3753625 0.138850345 0.16700252 0.298921189 0.338401907 0.192765377 0.137625307 0.1102703167 0.137625307	-2.829157513 -2.82985989 -2.82824851 -2.8283774 -2.82845850 -2.8284576 -2.828	0.004670727 0.004670727 0.00467827 0.00467827 0.004677297 0.004677297 0.004677297 0.004677297 0.004677297 0.004677297 0.004773127 0.004777 0.004777 0.004777 0.004777 0.00477 0.00477 0.00477 0.00477 0.00477 0.00477 0.00477 0.00477 0.00477 0.0047	0.025992388 0.025992388 0.026003930 0.02600568 0.026003930 0.02600568 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.02601668 0.0260167931 0.026131798 0.026131798 0.026131798 0.026131798 0.026330851 0.026330851 0.026330851 0.026330851 0.026330851 0.026330851 0.026330851 0.026330851 0.026330851 0.026330851 0.026330851 0.026330851 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.02630951 0.0265933081 0.0265933081 0.0265933081 0.0265933081 0.0265933081 0.027095851

WNK1	20499.019	-0.611312931	0.217613123	-2.809173101	0.004966893	0.027195996
RAB11FIP4	8965.170222	-0.569876938	0.202864616	-2.809149024	0.004967265	0.027195996
SDF2L1 ARHG AP33	1006.785927 3963.988085	0.565681023 -0.471560752	0.201364421 0.167882968	2.809240191 -2.808865957	0.004965858 0.004971634	0.027195996 0.027211834
TAS2R50	1.388786099	-1.418822535	0.50515534	-2.80868561	0.00497442	0.027218997
COL5A2 AN KRD40	1516.849973 9960.502908	-0.647891107 -0.556952667	0.230698213 0.198326757	-2.808392392 -2.808257824	0.004978952 0.004981033	0.027235709 0.027239008
ZBBX PI4KB	114.9912563	-0.717426159	0.255484683	-2.808098518 2.807959453	0.004983498	0.027240009
PI4KB YIPF1	5072.926655 1464.46498	0.192468631 0.305142861	0.068543949 0.108670006	2.807959453 2.807976837	0.00498565 0.004985381	0.027240009
USP27X	281.4138564	0.470436863	0.16757524	2.807317254	0.004995602	0.027278205
C20orf27 CDHR3	2554.721716 236.7446131	0.436213241 -0.592448023	0.155383372 0.211056826	2.807335394 -2.807054549	0.00499532 0.004999677	0.027278205 0.027284292
LEO1	1001.278864	0.245705239	0.087528965	2.807130628 -2.806659704	0.004998497	0.027284292
MAG I1 MLHI	1715.617973 1500.679281	-0.511695442 -0.189760044	0.182314743 0.067616304	-2.806659704 -2.806424366	0.005005809 0.005009467	0.027309668 0.02731908
YBEY	840.358305	0.524590238	0.186929194	2.806357991	0.005010499	0.02731908
IKZF2 EN PP2	432.7152746 15639.61306	-0.586403178 -0.72969909	0.208977888 0.260056089	-2.806053704 -2.805929651	0.005015233 0.005017164	0.027336804
GZMK	82.05552535 533.0376483	-1.056997783	0.376836768 0.130222937	-2.804922109	0.005032874	0.027416741
SLC25A35 MTOR	533.0376483 2761.468054	-0.365244157 -0.25382724	0.130222937	-2.804760552 -2.804456935	0.005035397 0.005040142	0.02742238 0.027440111
RAN G RF	1137.305306	0.417929103	0.149040289	2.804135093	0.005045176	0.027459406
N ME8 N RM	41.95822542 661.3952384	-0.993606601 0.653880063	0.354381045 0.233212339	-2.803780323 2.803797031	0.00505073 0.005050469	0.02747341 0.02747341
CYSLTR2	147.1339069	-0.826640111	0.294938854	-2.802750812	0.00506688	0.027553123
PUS7L DN AICS	873.7473511 7645.955334	-0.336825776 0.278627203	0.120227328 0.099470576	-2.801574175 2.801101722	0.005085395 0.005092846	0.027645647 0.02767799
PIBF1	338.4685012	-0.377872441 -0.337768013	0.134906559	-2.800993831	0.005094549	0.027679083
SPATS2L PPM1N	3816.763566 598.8876678	-0.337768013 0.599668642	0.120625125 0.214171683	-2.800146426 2.799943637	0.005107943 0.005111153	0.027743673
MU C3A	44.73586197	1.271128729	0.453969264	2.800032582	0.005109745	0.027744754
PPM1G HYAL1	3986.728113 149.1443809	0.385899088 0.677395963	0.137852917 0.242033068	2.799353803 2.798774429	0.0051205 0.005129696	0.027787306 0.027812641
PPIC	514.9871524	0.565019079	0.201878085	2.798813347	0.005129078	0.027812641
MBD3L3 CLASRP	1.667392682 4327.908814	3.446189909 -0.348634898	1.231297129 0.124589724	2.798828835 -2.798263671	0.005128832 0.005137815	0.027812641 0.02783302
TMEM119	1415.209182	-0.79132081	0.28279102	-2.79825297	0.005137985	0.02783302
KLHL36 MKN K1	1749.494105 2491.206632	0.308832759 -0.298240204	0.110360407 0.106596299	2.798401781 -2.797847653	0.005135619 0.005144437	0.02783302 0.02785978
ARPC2	9701.450027	0.280242234	0.100171582	2.797622117	0.00514803	0.027871049
NKG7 SNX27	187.9352394 2839.544598	0.898326905 -0.231081163	0.321125581 0.082609571	2.797431773 -2.797268641	0.005151065 0.005153666	0.027879286 0.027885178
UCN2	74.57402704	1.193509201	0.426721479	2.796927876	0.005159105	0.027906411
SG MS1 SERPIN A1	1332.721488 3667.677291	-0.517480855 0.858455734	0.185032342 0.306950841	-2.796704878 2.796720576	0.005162667 0.005162416	0.027909294
DU SP27	52.62689608	-0.800382503	0.286292285	-2.795683098	0.005179016	0.027986981
IFIT1B PSMD1	7.016693227 4399.760121	1.631623807 0.220033751	0.583636383 0.078721403	2.795617022 2.79509439	0.005180074 0.005188456	0.027986981 0.028024051
GIN1	332.0910194 486.8930394	-0.332814339 -0.936124666	0.119099805 0.335006017	-2.794415486 -2.794351797	0.005199363 0.005200387	0.028059793
MON2	486.8930394 2343.195614	-0.936124666 -0.38396835	0.335006017	-2.794351797 -2.794325868	0.005200387	0.028059793
COL9A1	377.9130804	-1.066718893	0.381747687	-2.794303488	0.005201164	0.028059793
MYO1C SELENOH	2372.276967 3962.141928	0.412383608 0.422420742	0.147601885 0.151190606	2.793891203 2.793961567	0.0052078 0.005206667	0.028079151 0.028079151
SRP14	12448.78164	0.248376425 -0.504924628	0.088939338	2.792649815	0.005227825	0.02817888
MBTD1 PRPH	745.7111431 484.5682127	-0.504924628 0.924814536	0.18081364 0.331188862	-2.792514048 2.79240833	0.00523002 0.005231729	0.028182466 0.028183435
PNN MRPL51	3839.470815 4363.154501	-0.297989695 0.381869565	0.106719585 0.136762297	-2.792268133 2.792213742	0.005233996 0.005234876	0.028183914 0.028183914
SLC9A1	1642.606672	0.436266316	0.156286393	2.792213742	0.005247178	0.028183914
FIBP CPB1	3995.227095 82.02140989	0.372660465 -1.012929084	0.133507171 0.36290463	2.791314215 -2.791171569	0.005249448 0.005251763	0.028245864
FLVCR2	647.9236988	0.699026016	0.250549098	2.789976188	0.005271192	0.028346307
SF3B1 ANTXR1	10921.2497 3657.170641	-0.303288384 -0.575286545	0.108728452 0.206294295	-2.789411392 -2.788669198	0.005280394 0.005292509	0.028387511 0.028437673
CASP6	368.0051489	0.436623702	0.15657167	2.788650721	0.005292811	0.028437673
FRAT2 GSTK1	509.6833939 5166.133712	0.330036643 0.353029655	0.118362698 0.126607505	2.788350127 2.78837858	0.005297725 0.00529726	0.028447489 0.028447489
N DU FB2	6508.830602	0.464821051	0.166721151	2.788014885	0.005303211	0.028468648
BPIFB2 CHPT1	18.36671744 2890.44818	-1.453678667 0.323800287	0.521434493 0.116183837	-2.787845234 2.786965001	0.005305989	0.028475266
MRPL34	2111.232045	0.286551386	0.102822657	2.786850624	0.005322301	0.028546181
SEC61A2 DG AT1	1438.205992 1758.126351	-0.417636941 0.358256925	0.149871604 0.128573905	-2.786631544 2.786389089	0.0053259 0.005329885	0.028557174 0.028570232
ZFP28	710.9323057	-0.285606581	0.102512045	-2.786078278	0.005334999	0.028589326
N DU FB7 ZBTB20	7684.455708 4028.35527	0.544217601 -0.45776905	0.195360542	2.785708905 -2.785559495	0.005341081	0.0286136 0.028617696
ATXN2	2559.365341	-0.308093044	0.110614446	-2.785287581	0.005348027	0.028617696
LIX1L TEX264	1939.845614 2829.051821	0.214650201 0.329471217	0.077065774 0.118288113	2.785285745 2.785328196	0.005348057 0.005347357	0.028617696 0.028617696
HSPA9	12161.80504	0.152732695	0.054853465	2.784376421	0.005363075	0.028689729
FBXL7 H3.Y	1616.587797 8.082132713	-0.622951313 2.750699908	0.223779408 0.98823648	-2.78377407 2.783442995	0.005373045 0.005378531	0.028730711 0.028730711
BIK	16.29559665	1.179970053	0.42391742	2.783490365	0.005377746	0.028730711
FAM229A OGFOD8	526.6344033 1615.066411	0.385464249 0.293578045	0.138480059 0.105464865	2.783536137 2.783657342	0.005376987 0.005374979	0.028730711 0.028730711
LDHA	15103.70609	0.514284629	0.184775687	2.783291667	0.005381041	0.028735787
COL4A1 EFCAB6	6778.483792 122.7187138	-0.937743636 -0.529684778	0.336997422 0.190370526	-2.782643351 -2.782388584	0.005391804 0.005396039	0.028784924 0.02879919
HDX	162.4918173	-0.360655043	0.129639451	-2.781985263	0.005402749	0.028826655
TRIM6 EFCAB2	168.8374581 867.2144106	0.810557863 -0.368458937	0.291370882 0.132505863	2.781876686 -2.780699132	0.005404557 0.005424198	0.028827955 0.028898519
DBN DD2	38866.17019	-0.722700194	0.259923651	-2.780432602	0.005428653	0.028898519
NLRP2B AC270107.1	4.088731327 13.52201388	-1.147426492 -0.847943315	0.412682129 0.304979134	-2.780412362 -2.780332231	0.005428991 0.005430331	0.028898519 0.028898519
AC270107.2	13.52201388	-0.847943315 -0.847943315	0.304979134	-2.780332231 -2.780332231	0.005430331	0.028898519
AC270107.6 AC270107.5	13.52201388 13.52201388	-0.847943315 -0.847943315	0.304979134 0.304979134	-2.780332231 -2.780332231	0.005430331 0.005430331	0.028898519 0.028898519
MYO1A	57.65385186	0.666648598	0.239746732	2.780636851	0.005425239	0.028898519
VSX2 KCNQ1	14.28920488 582.2973748	-0.986470895 -0.68905663	0.35485413 0.247872417	-2.77993353 -2.779884256	0.005437003 0.005437828	0.02892171 0.02892171
AG AP1	6194.397261	-0.608441414	0.219001598	-2.778251019	0.005465238	0.029059109
ATG 4D	1303.69431	0.334849549 0.315251462	0.120541503 0.113496249	2.777877668 2.777637723	0.005471521 0.005475563	0.029084127 0.029097218
ATG 4D DN AIC2	991.217005		0.212509858	2.777411781	0.005479371 0.005487047	0.029109061
DN AIC2 RDH5	546.1401786	0.590227383				
DN AIC2		0.590227383 -0.74181742 -0.624935408	0.267133224 0.225201768	-2.77695679 -2.77500223	0.005520133	0.029307842
DNAJC2 RDHS KIRREL3 TENM4 NPC2	546.1401786 1561.073326 1566.074586 14376.04016	-0.74181742 -0.624935408 0.643133526	0.225201768 0.231774486	-2.77500223 2.774824511	0.005520133 0.00552315	0.029307842 0.029307842
DN AIC2 RDH5 KIRREL3 TEN M4	546.1401786 1561.073326 1566.074586	-0.74181742 -0.624935408	0.225201768	-2.77500223	0.005520133	0.029307842
DNAC2 RDH6 KIRREL3 TEN M4 NPC2 ST3G AL2 PDIA6 PYCR3	546.1401786 1561.073326 1566.074586 14376.04016 1281.897523 391.3494575 854.9859484	-0.74181742 -0.624935408 0.643133526 0.322362727 0.544910825 0.375936616	0.225201768 0.231774486 0.116171635 0.196503866 0.135659585	-2.77500223 2.774824511 2.774883269 2.773028517 2.77117623	0.005520133 0.00552315 0.005522152 0.005553725 0.005585419	0.029307842 0.029307842 0.029307842 0.029461602 0.029621204
DNAIC2 RD46 KIRREL3 TEN M4 N PC2 ST3G AL2 PDIAS	546.1401786 1561.073326 1566.074586 14376.04016 1281.897523 391.3494575	-0.74181742 -0.624935408 0.643133526 0.322362727 0.544910825	0.225201768 0.231774486 0.116171635 0.196503866	-2.77500223 2.774824511 2.774883269 2.773028517	0.005520133 0.00552315 0.005522152 0.005553725	0.029307842 0.029307842 0.029307842 0.029461602
DNAKCZ RD-6 KIRREL3 TEN-M4 NPC2 ST3G-RL2 PDLAS PPCRS TEN-T2	546.1401786 1561.073326 1566.074588 14376.04016 1281.897523 391.3494575 854.9859484 1422.13854	-0.74181742 -0.624935408 -0.643133526 -0.322362727 -0.549910825 -0.375936616 -0.275442952	0.225201768 0.231774486 0.116171635 0.196503866 0.135659585 0.099416623	-2.7750223 2.774824511 2.774883269 2.773028517 2.77117623 -2.770592515	0.005520133 0.00552315 0.005522152 0.005553725 0.005588419 0.00559544	0.029307842 0.029307842 0.029307842 0.029461602 0.029621204 0.029665813

FRMPD3	666.0455875	-0.586245345	0.211699975	-2.76922728	0.005618942	0.02975107
RTEL1-TN FRSF6B	778.5534695	-0.554445797	0.20022672	-2.769089939	0.005621312	0.02975107
C2CD4A	28.16106603	0.997683676	0.36031654	2.768908903	0.005624436	0.02975107
PMFBP1	112.8703772	0.697632222	0.251948838	2.768943996	0.00562383	0.02975107
C4orf48	3683.178085	0.773943847	0.279490616	2.769122836	0.005620744	0.02975107
G S DMA	129.7222831	1.171577591	0.423145933	2.768731776	0.005627494	0.029758707
	643.3184643	-0.369359323	0.133443848	-2.767900712	0.005641864	0.029826137
AC074143.1	1455.71382	0.989799809	0.357615752	2.767774636	0.005644047	0.02982912
BCKDHB	1004.383078	-0.498443335	0.180104124	-2.767528715	0.005648307	0.02983769
C11orf54	950.3814667	-0.398479233	0.143995295	-2.76730731	0.005652145	0.02983769
EBPL	536.1043573	0.288077297	0.104098506	2.767352835	0.005651355	0.02983769
ABCA7	1362.292465	0.438448656	0.158428929	2.767478512	0.005649177	0.02983769
FAM133B	947.5497334	-0.216551464	0.078271643	-2.766665618	0.005663281	0.029887917
ST6G ALN AC3	1093.838843	-0.682456814	0.246720913	-2.766108501	0.005672966	0.029930456
G ATD3B	4844.936385	0.370290962	0.133879817	2.765846046	0.005677533	0.029945981
CRTC3	2822.453243	-0.317011621	0.114643066	-2.765205373	0.005688697	0.029996278
MBD4	1906.59038	0.221443093	0.080085239	2.765092504	0.005690666	0.029998077
PPM1H	1899.947206	-0.608089756	0.219965844	-2.764473543	0.005701473	0.030041952
CYB561D2	943.8076691	0.396761669	0.143528748	2.76433588	0.005703879	0.030041952
W DR83	857.4439805	0.384919271	0.139243916	2.764352528	0.005703588	0.030041952
ERCC6L2	643.3889055	-0.379053086	0.137127858	-2.764231082	0.005705712	0.030043017
CCDC12	1826.979633	0.46299643	0.167551508	2.763308042	0.005721874	0.030119512
NXT1	661.9847817	0.49782479	0.180173136	2.763035612	0.005726652	0.030127452
MRPL53	2022.417089	0.437291098	0.15826258	2.763073227	0.005725992	0.030127452
NTRK1	36.00610114	-0.674083795	0.244057831	-2.761983881	0.005745131	0.030212358
CASP3	1366.290913	0.367238571	0.132964447	2.761930575	0.00574607	0.030212358
HLA-C	51389.4643	0.604917131	0.219085957	2.761094961	0.005760792	0.03028113
LONP2	3755.933272	-0.232266908	0.084124206	-2.760999693	0.005762473	0.030281328
DEXI	2190.13354	0.269689132	0.097711689	2.760049831 -2.759786725	0.005779255	0.030360856
RTKN	7969.353195	-0.505224127	0.183066366	-2.759575617	0.005783911	0.030376657
BAHCC1	2527.843834	-0.414778618	0.150305219		0.005787649	0.030387631
HS3ST1	407.8314047	0.535585803	0.194154743	2.758551219	0.005805821	0.030474357
PLEKHAS	1191.264519	-0.434729583	0.157616015	-2.758156166	0.005812842	0.030502525
MRN IP	1707.160433	-0.220917626	0.080118826	-2.757374729	0.005826753	0.030560281
DRG 1	1916.555853	0.27539911	0.099878125	2.757351626	0.005827165	0.030560281
OR4D1	13.57424717	0.886103913	0.321524963	2.755941266	0.00585235	0.030683632
SGCE	2293.448183	-0.310936829	0.112828499	-2.75583591	0.005854236	0.030684787
SCO2	979.3680114	0.593986577	0.215548396	2.755699365	0.00585668	0.03068887
PLCL1	2467.408844	-0.795910864	0.288848155	-2.755464592	0.005860885	0.030702173
PTG R1	1191.688656	0.27849582	0.101093861	2.754824244	0.005872367	0.030753582
XRCC6	9736.136894	0.259245871	0.094112245	2.754645483	0.005875576	0.030761646
CTN N D2	11050.45455	-0.708866172	0.257367636	-2.754294141	0.005881888	0.030785945
BZW 2	1166.283319	0.502966459	0.182622106	2.754137877	0.005884697	0.030791903
CTAGE1	0.706601705	-2.498257866	0.907207168	-2.753789823	0.005890959	0.030808074
IGFBP3	3943.682552	0.965879156	0.350746635	2.753780249	0.005891131	0.030808074
BLOC1S3	755.9280022	0.270745496	0.09832692	2.753523601	0.005895752	0.030823493
POLR3E	1303.727536	-0.199434794	0.072436639	-2.753230922	0.005901026	0.030842045
PCLAF	127.7290221	-0.697470739	0.253336372	-2.753140952	0.005902648	0.030842045
RBMS3	389.2945508	-0.547133673	0.19874446	-2.752950563	0.005906081	0.03085124
MRPL15	1390.969286	0.231589038	0.084141268	2.752383502	0.005916319	0.030895961
GAB1	3158.357331	-0.549255041	0.199570127	-2.752190664	0.005919804	0.030905404
EVISL TRMT1	4503.382589 2822.933225	-0.349255041 -0.395579349 0.390327077	0.143749689 0.141849198	-2.752190804 -2.751862302 2.751704514	0.005919804 0.005925743 0.005928599	0.030905404 0.030927647 0.03093379
G PHB5	0.651585874	-1.569165712	0.570315011	-2.751401737	0.005934082	0.030953636
SEC14L5	4068.293959	-0.835349111	0.303647222	-2.751051389	0.005940432	0.030977993
RUFY2	2272.834379	-0.502046415	0.182504583	-2.750870179	0.005943719	0.030986366
AL034430.1	90.52865014	2.62010881	0.95251749	2.750719894	0.005946447	0.030991817
TBL1XR1	3276.26116	-0.25336357	0.09211509	-2.750511023	0.005950239	0.030994051
IGF2R	3949.048396	0.415056847	0.150898547	2.750568873	0.005949188	0.030994051
LYL1	1124.142591	0.724139399	0.263336105	2.749867507	0.005961937	0.031046208
PHKB	2619.765376	-0.354747206	0.129020272	-2.749546269	0.005967784	0.031059103
C6orf52	98.02877854	0.659050807	0.239687046	2.749630474	0.005966251	0.031059103
SDHAF1	1270.995475	0.453590357	0.164981848	2.749334935	0.005971633	0.031070364
PTPRM	1661.981095	-0.559669696	0.203593808	-2.748952448	0.005978606	0.031097863
U BE2M	5289.608408	0.369740994	0.134554352	2.747893247	0.005997953	0.031189696
CBFA2T2	1702.916904	-0.266302315	0.096930074	-2.747365235	0.006007619	0.03121966
U BE4B	2830.785259	-0.278414061	0.101340941	-2.747300909	0.006008798	0.03121966
CD79B	63.86911729	0.878646031	0.319814171	2.747364283	0.006007637	0.03121966
SERPIN B1	3188.2312	0.513496035	0.186965399	2.746476286	0.006023924	0.031280613
SELL	890.415852	0.784405342	0.285598749	2.746529336	0.00602295	0.031280613
ZNF107	555.0527789	-0.583743755	0.212560895	-2.746242455	0.00602822	0.031294101
HSF5	4.046854278	-1.03071649	0.375350507	-2.746010649	0.006032481	0.031302973
ABCA2	62918.19697	-0.635780635	0.231532706	-2.745964686	0.006033326	0.031302973
RBM26	2225.169498	-0.247691364	0.090217984	-2.745476605	0.006042308	0.031326591
RECK	520.4260155	-0.334597888	0.121874038	-2.745440225	0.006042978	0.031326591
SLC25A1	3686.649475	0.389918753	0.142015901	2.745599253	0.006040049	0.031326591
CYP26C1	12.48258325	-0.926258719	0.337430199	-2.745038	0.006050389	0.031347377
RAET1G	20.65469499	0.848906145	0.309245776	2.745085663	0.00604951	0.031347377
ITFG2	1037.702649	-0.195737206	0.071333971	-2.743954998	0.006070386	0.031442142
SGCA	58.51299065	0.940124678	0.342684025	2.743415531	0.006080369	0.031485001
ZNF789	713.3764107	-0.344340332	0.125553914	-2.742569473	0.006096055	0.03155736
EIF3G	8316.310299	0.45130849	0.164588495	2.742041543	0.006105862	0.03159925
GYG1	2615.027548	0.288559651	0.105245967	2.741764444	0.006111015	0.031617039
MSANTD3-TMEFF1	972.9830558	-0.59822969	0.218200021	-2.74165734	0.006113008	0.031618472
TMEM62 OLAH	972.9830556 938.7515405 24.25997726	-0.229527366 0.976266058	0.08373961 0.356198148	-2.740965319 2.740794876	0.006125897 0.006129076	0.031676252 0.031683797
FTSJ3 L3HYPDH	24.25997726 2375.810176 810.1775983	0.976266058 0.306477618 -0.389993304	0.356198148 0.111829039 0.142311624	2.740794876 2.740590656 -2.740417784	0.006129076 0.006132886 0.006136113	0.031683797 0.031694604 0.031702391
HSD17B4	7281.313575	-0.366472911	0.133744269	-2.740101781	0.006142016	0.031708636
ZNF721	1120.58406	-0.396938936	0.144863834	-2.74008305	0.006142366	0.031708636
SPOCK2	14865.00319	0.576455438	0.210379302	2.740076765	0.006142484	0.031708636
MO B3B	2303.010174	-0.626173711	0.22853705	-2.739922085	0.006145375	0.031714679
ABHD18	493.0900114	-0.30755383	0.112265829	-2.739514185	0.006153006	0.031727405
MG AT2	1096.515729	0.453826292	0.165657558	2.739544751	0.006152434	0.031727405
HIST1H4E	100.9830452	0.768227476	0.280413671	2.73962205	0.006150987	0.031727405
CEP295	627.0215005	-0.359270066	0.131183154	-2.738690569	0.00616844	0.031798092
B4G ALT3	1281.313368	0.296281456	0.108199893	2.738278626	0.006176173	0.03182905
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PREX2	1630.374959	-0.642736021	0.234764981	-2.737784905	0.006185452	0.031859052
PG AMS	1125.356521	0.314509526	0.114892871	2.737415501	0.006192403	0.031885942
TNNC2	73.800153	0.756379444	0.276346684	2.737067193	0.006198963	0.031901896
RPS5	17291.18655	0.443254032	0.161939823	2.73715275	0.006197351	0.031901896
EZH1	3688.724721	-0.26585128	0.097146967	-2.736588565	0.006207988	0.031939423
EMC10	11514.81029	0.361108229	0.132000725	2.735653381	0.006225657	0.032021385
DEN N D1C	732.9361524	0.645748821	0.236121999	2.734810067	0.006241628	0.032094576
IL4R	2027.788895	0.57916347	0.211855765	2.733763082	0.006261508	0.032187819
DTHD1	36.74511086	-1.141674545	0.417650366	-2.733565295	0.00626527	0.032198176
CFTR	44.94853151	-1.162144172	0.425267094	-2.732739467	0.006280999	0.032270013
RSRC1	892.7708336	-0.458807831	0.167956178	-2.731711548		0.032361836
DN AIC15 ELOVL5	2849.742124 6100.470743	-0.358385609 -0.370516614	0.131225877 0.135673372	-2.731711346 -2.731058979 -2.730945711	0.006313117 0.006315287	0.032416951 0.032419062
PIEZO2	1907.96993	-0.859274601	0.314808882 0.28831785	-2.729511935	0.006342815	0.032544672
C14orf178				-2.729487348	0.006343288	0.032544672
MRPL40 N DST1	7.705526205 1946.900537 9018.677847	-0.786959923 0.360572479 -0.276705339	0.132145248 0.101413604	2.728607236 -2.728483443	0.006360241 0.006362628	0.032622565 0.032625731

1.000.000 1.00	MED19	758.2384048	0.265937707	0.097476685	2.728218629	0.006367739	0.032640424
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	G PR19	408.3471287	0.413153022	0.151495899	2.727156483	0.006388274	0.032711724
	NEO1	6003.405543	-0.433493099	0.158999341	-2.726382986	0.006403265	0.032752088
The color							0.032752088 0.032752088
1986							0.032774464 0.032808142
Tempor					-2.725329142		0.032829487 0.032831749
March							0.032899596
Color	FNBP4	2644.081345	-0.325681086	0.119561782	-2.723956451	0.006450501	0.032929719
Text	ATAD2B	437.6409439	-0.452662463	0.166207977	-2.723470151	0.006460005	0.032950338 0.032950338
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Total	CERS5	2795.483542	0.24709147	0.090873902	2.719058662	0.0065468	0.033305437
MATERIAL 1.00 1.0		3500.372252	0.285015943		2.718646602		0.033331839 0.033331839
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Company							0.033469352 0.033551006
The color		3340.858391	-0.425641169	0.15676234	-2.715200406	0.006623568	0.033626922
Color	ISLR2	740.1136034	0.987888859	0.363883808	2.714846983	0.00663064	0.03364429
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Dec	CDK13	2078.669613	-0.254360496	0.093748516	-2.713221564	0.006663254	0.033719775 0.033763295
Content							0.033763295 0.0337641
Description 1,000,174 0,000,174 0,000,177 0,							0.033791691 0.033825774
Description							0.033825774 0.033832672
1972 263.57900 0.0000000 277.57710 0.0000000 277.57710 0.0000000 0.00000000 277.57710 0.00000000 0.000000000 0.00000000							0.03388778
March	ENY2	2452.529304	0.265414562	0.097901182	2.711045546	0.006707141	0.033892489
1905	KIF3B	4200.931436	0.239970418	0.088512262	2.711154518	0.006704937	0.033892489
Total	HDHD5	1469.464977	0.368985428	0.13612209	2.71069471	0.006714241	0.033914814
MARCE 498.5.47795							0.033929855 0.033929855
DATONE 253.55511							0.033930977 0.033930977
DENIL STATE AND CANADONIS CANADONI							0.034170477 0.034220751
Color			-0.428414196				0.034238537 0.034238537
Carp	ABCB9	1338.070654	0.350829593	0.129616372	2.706676539	0.006796044	0.034238537
19912 200,11500 0.25744405 0.09617078 2.7061010 0.0860761 0.0860761 0.51877 0.9574101 0.7574778 2.7061010 0.0862779 0.086277	CATIP	107.9265695	0.745648914	0.275519169	2.706341332	0.006802908	0.034244959
DETTIES	PPP1R2	2002.115604	0.257542458	0.095170748	2.706109416	0.006807661	0.034259527
DECT 1073 APP 0.464145790	METTL15	404.0256726	-0.357083032	0.131993009	-2.70531776	0.006823908	0.034297972
CCCCS		1053.287292	-0.464162599	0.171576306			0.034297972 0.034297972
MY							0.034297972 0.0343387
Pyris							0.0343387 0.034358981
NRIGAL 1017/6977							0.034412841 0.034435625
Dec	TRIM28	10379.69797	0.435267926	0.161023541	2.703132255	0.006868941	0.034464392
2NF596 398.2241236	ARC	3465.841963	0.835156797	0.309140279	2.701546363	0.006901786	0.034600927
Metal	ZNF596	398.2241236	-0.254010982	0.094050887	-2.70078241	0.006917658	0.034651427
EPHG 3570.096672	MEI1	102.4097853	0.673411269	0.249345242	2.700718339	0.006918991	0.034651427 0.034651427
MARCIZC 383.1246644	IDHBG	3570.096675	0.38124246	0.141193001	2.700151256	0.006930796	0.034651427 0.034699168
NP3X13							0.034712467 0.034712467
## ACONTAGO 48.16869115 0.721045955 0.267116481 2.699369026 0.008947109 0.014723 FICHER 13.2032565 1.322190381 0.488980644 2.689850656 0.008953861 0.034767 ## APPSFT 5282,63566 0.341590005 0.12679966 2.689850656 0.008953861 0.034767 ## APPSFT 5282,63566 0.341590005 0.12679966 2.689850656 0.00896397 0.03476 ## APPSFT 5282,63566 0.341590005 0.12679966 2.68946458 0.00896397 0.03476 ## APPSFT 7.01933177 0.1933173 -2.6872443 0.008966334 0.034801 ## APPSFT 1.10645299 0.37341357 0.138427239 2.68978381 0.008962374 0.04401 ## APPSFT 1.10645299 0.37341357 0.138427239 2.69758388 0.00993274 0.044982 ## APPSFT 1.10645299 0.37341357 0.138427239 2.69758086 0.009931001 0.034897 ## APPSFT 1.10645299 0.401577421 0.14805640 2.69758086 0.009931001 0.034897 ## APPSFT 1.10645299 0.401577421 0.14805640 2.69758086 0.009931001 0.034897 ## APPSFT 1.10645299 0.401577421 0.14805425 2.696758718 0.007001798 0.03497 ## APPSFT 1.10645299 0.26225983 0.09724859 2.696758718 0.007001798 0.034921 ## APPSFT 1.10645299 0.46114701 0.171009600 2.696542702 0.007006341 0.03497 ## APPSFT 1.1064529 0.051003737 2.696528079 0.00701716 0.03497 ## APPSFT 1.1064529 0.051003737 2.696528079 0.00701716 0.03497 ## APPSFT 1.106466 0.1417727 0.140105866 2.69675979466 0.00701266 0.03497 ## APPSFT 2.204240668 0.431777726 0.16159994 2.695797946 0.00701266 0.03497 ## APPSFT 2.204240668 0.43177772 0.16159993 2.6957979566 0.00701266 0.03497 ## APPSFT 2.204240668 0.43177772 0.16159993 2.695797956 0.00701266 0.03497 ## APPSFT 2.204240668 0.43177772 0.16159993 2.695797956 0.00701266 0.03497 ## APPSFT 2.204240668 0.4317772 0.16159993 2.695797956 0.00701266 0.03497 ## APPSFT 2.204240668 0.4317772 0.16159994 2.695797956 0.00701266 0.03497 ## APPSFT 2.204240668 0.4							0.034712467 0.03472472
ATPSF1	AC007040.2	48.16869115	0.721045955	0.267116481	2.699369026	0.006947109	0.034733663 0.034767988
FET1	ATP5IF1	5282.636366	0.341350005	0.126479966	2.698846442	0.006958027	0.034769384 0.034801757
PW12	FEZ1	28766.40691	-0.521621627	0.193315453	-2.698292443	0.006969618	0.034808428 0.034862183
MMM14	RPN 2	9193.932815	0.363751954	0.134859649	2.697263086	0.006991201	0.034897304
\$\frac{6P8P111}{6P8P111}\$\$ 3063.81848\$\$\$ 0.172259\$\$ 0.06390227\$\$\$ -2.696128365\$\$ 0.007015063\$\$ 0.034978\$\$\$ \text{N152}\$\$ 737.560241\$\$ 0.317142828\$\$ 0.137887246\$\$ -2.696030979\$\$ 0.007017114\$\$ 0.034978\$\$\$ 118.CL\$\$ 13.50999922\$\$ 0.917676747\$\$ 0.34409886\$\$ -2.695799346\$\$ 0.007021995\$\$ 0.034987\$\$ \text{DAMS13}\$\$ 810.5159854\$\$ 0.317926025\$\$ 0.125353892\$\$ -2.695776086\$\$ 0.007022486\$\$ 0.034987\$\$ \text{DAMS13}\$\$ 810.5159854\$\$ 0.337926025\$\$ 0.125353892\$\$ -2.695776086\$\$ 0.007022486\$\$ 0.034987\$\$ \text{DAMS13}\$\$ 22924.240668\$\$ 0.43277772\$\$ 0.168155992\$\$ 2.695578577\$\$ 0.007026646\$\$ 0.034987\$\$ \text{DAMS13}\$\$ 3.246168\$\$ 0.214337322\$\$ 0.079512914\$\$ 0.595578577\$\$ 0.007026646\$\$ 0.034989\$\$ \text{DAMS13}\$\$ 3.34811573\$\$ 1.111033466\$\$ 0.412255926\$\$ 2.695040935\$\$ 0.00703586\$\$ 0.00703586\$\$ \text{DAMS13}\$\$ \text{ASS14}\$\$ 3.34811573\$\$ 1.111033466\$\$ 0.412255926\$\$ 2.695040935\$\$ 0.007035867\$\$ 0.055093\$\$ \text{PSS35L}\$\$ 3.343.469045\$\$ 0.211406301\$\$ 0.07855993\$\$ 2.694449104\$\$ 0.007055069\$\$ 0.035088\$\$ \text{APP1}\$\$ 2875.04209\$\$ 1.050086468\$\$ 0.393498799\$\$ 2.694449104\$\$ 0.007053069\$\$ 0.035088\$\$ \text{SPS3L}\$\$ 3.848.897149\$\$ 0.550082925\$\$ 0.20550193\$\$ 2.69449104\$\$ 0.00705366\$\$ 0.035088\$\$ \text{SPS3L}\$\$ 3.848.897149\$\$ 0.550082925\$\$ 0.20550193\$\$ 2.69449104\$\$ 0.007053866\$\$ 0.035088\$\$ \text{L10694}\$\$ 11.10904409\$\$ 1.127189505\$\$ 0.41844440\$\$ 2.69392825\$\$ 0.007033865\$\$ 0.035088\$\$ \text{L10694}\$\$ 11.10904409\$\$ 1.127189505\$\$ 0.41844440\$\$ 2.69392825\$\$ 0.007053565\$\$ 0.03508\$\$ \text{L10694}\$\$ 1.10904409\$\$ 1.127189505\$\$ 0.4184440\$\$ 2.69392825\$\$ 0.007063565\$\$ 0.035085\$\$ \text{L10694}\$\$ 1.10904409\$\$ 1.127189505\$\$ 0.4184440\$\$ 2.69392855\$\$ 0.007063565\$\$ 0.035085\$\$ \text{L10694}\$\$ 1.10904409\$\$ 1.127189505\$\$ 0.4184440\$\$ 2.69392855\$\$ 0.007063565\$\$ 0.035085\$\$ \text{L10694}\$\$ 1.59352845\$\$ 0.007063565\$\$ 0.035085\$\$ \text{L106954}\$\$ 0.35574129\$\$ 0.217497645\$\$ 2.693283501\$\$ 0.00706467\$\$ 0.035393\$\$ \text{CN12}\$\$ 1.59359992\$\$ 0.347231009\$\$ 0.12855595\$\$ -2.69270153\$\$ 0.00708567\$\$ 0.035503\$\$ \text{CN12}\$\$ 1.59359992\$\$ 0.347231009\$\$ 0.12855595\$\$ -2.69270153\$\$ 0.00708567\$\$ 0	MTMR14	1907.462164	0.262255983	0.09724859	2.696758718	0.007001798	0.034928762 0.034931278
VALID 1.50999922	GPBP1L1	3063.818483	-0.172289	0.063902373	-2.696128365	0.007015063	0.034944483 0.034978515
1.00 1.00							0.034979279 0.034987128
EER.1 2268.42648 0.214337321 0.079512914 2.695629058 0.00702586 0.03408 PWIL3 3.348119772 -1.11033469 0.412259262 -2.695090993 0.007038671 0.055093 V9535L 3413.490015 -0.211406501 0.077859935 -2.69449019 0.00705509 0.035083 AQP1 28725.04209 -1.60086468 0.393439079 -2.694410709 0.007051322 0.035083 SPR3 864.8897149 -0.550983225 0.204500193 -2.69420484 0.007053866 0.055086 C110994 11.0904093 1.127178505 0.418414449 2.69328251 0.00705155 0.035117 LVPDI 1947.52445 0.585774129 0.217497645 2.693243542 0.007076056 0.03517 G6R3 5592.716791 0.39677449 0.147333357 2.693283501 0.00708467 0.03519 CT12 1583.99522 -0.347231009 0.12865569 -2.692283941 0.007083592 0.035508 CDN12 1583.995922 -0.347231009 0.128655697 -2.6							0.034987128 0.03498894
VP535L 3413.469045 -0.211406301 0.078459935 -2.694449104 0.007050509 0.035083 AQP1 28775.04209 -1.060084686 0.393439079 -2.694410709 0.007051322 0.035083 SEPKI 864.8897149 -0.550982925 0.02050193 -2.694290484 0.007053866 0.035086 C11c694 11.09044093 1.127178505 0.418414449 2.693928251 0.007051556 0.035115 LYPDI 1947.52445 0.585774129 0.217497645 2.693243542 0.007076056 0.035177 G6PG3 5592.716792 0.39677449 0.147333537 2.693035901 0.007080467 0.035309 C71.2 6854.14772 -0.518740529 0.196515494 -2.692283941 0.007083692 0.035199 CONT2 1953.59922 -0.347231009 0.128852657 -2.69271053 0.00708767 0.035208	DERL1	2363.424648	0.214337321	0.079512914	2.695629058	0.007025586	0.03498894 0.035039345
SEPNIX 864.8897140 0.59982225 0.20550193 2.69439084 0.007053866 0.035066 C110r964 11.09044099 1.127178505 0.418414449 2.693928151 0.007061536 0.035115 LYPDI 1947-52445 0.585774129 0.212797645 2.693243541 0.007076958 0.035179 G6FG1 5592.716791 0.39677449 0.147333537 2.69303801 0.007080467 0.035196 GF12 6854.174772 -0.518745029 0.19265494 -2.60283041 0.007083692 0.035196 CN12 1593.999922 -0.347231029 0.128952857 -2.69270618 0.007087567 0.035308	VPS35L	3413.469045	-0.211406301	0.078459935	-2.694449104	0.007050509	0.035083371
LYPDI 1947.52445 0.585774129 0.217497645 2.693243542 0.007076056 0.035177 GBC3 5592.716791 0.39677469 0.147333537 2.693035001 0.007080467 0.035190 GT2 6854.174772 -0.518740292 0.192654906 -2.69283941 0.007083692 0.035190 CON12 1593.99922 -0.347231009 0.128952657 -2.69270163 0.007087607 0.035303	SRPK3	864.8897149	-0.550982925	0.204500193	-2.694290484	0.007053866	0.035086557
CFL2 6854.174772 -0.518745029 0.192635494 -2.692883941 0.007083692 0.035196 CCNT2 1593.595922 -0.347231029 0.128952657 -2.69270163 0.007087567 0.035203	LYPD1	1947.52445	0.585774129	0.217497645	2.693243542	0.007076056	0.035177943
	CFL2	6854.174772	-0.518745029	0.192635494	-2.692883941	0.007083692	0.035190377 0.035196917
NEO 040.0700190 -U.640949647 U.238042557 -2.692584286 0.007090061 0.035203	CCNT2 KIF6	1593.595922 646.0706196	-0.347231029 -0.640949647	0.128952657 0.238042557	-2.69270163 -2.692584286	0.007087567 0.007090061	0.035203195 0.035203195

	TXN DC12	2809.188401	0.210716239	0.078258846	2.692554881	0.007090686	0.035203195
	CARN S1	26349.72854	-0.822975442	0.305704183	-2.692064712	0.007101117	0.035245482
March	PNKD	4658.67417	0.367767437	0.136673613	2.690844478	0.007127141	0.035355608
1000 1000							0.035364252 0.035394067
Column							0.035413364
Column	HSBP1L1	657.5529415	0.362577946	0.134802435	2.689698792	0.007151654	0.035429523
1965 1965			-0.314803068				0.035540419 0.03558761
1997 1998							0.03558761 0.035599719
1985 1985							0.035612039
1961 1961	DYN C1LI2	19880.18971	-0.433887011	0.161467081	-2.687154605	0.007206359	0.035633482
March							0.035638584 0.03571574
MAY							0.035757395 0.035760962
1975 177, AMERI 0.10000						0.007244134	0.035772278
1995 1995	RFTN2	2228.233143	-0.54899404	0.204494845	-2.68463511	0.007260903	0.035835881
1992 1995							0.03587493 0.03587493
1.5 1.5							0.03587493 0.03587493
Col. 101.4.177							0.03587493
	IL1R1	1202.252347	0.694097328	0.258715592	2.682858516	0.007299586	0.03595939
Control							0.0359787 0.035984415
March							0.036000264 0.036017864
	AS3MT	440.9414918	0.364497309	0.135916925	2.681765427	0.007323479	0.036028937
	P2RY13	822.2065407	-0.698588496	0.260584379	-2.680853314	0.00734347	0.036105331
March							0.036105331 0.036106921
Trans.							0.036106921 0.036106921
Color	TRABD	2342.737602	0.395993811	0.147728354	2.680553873	0.007350043	0.036106921
1972 1779 1960	OGT	6463.249089	-0.424082179	0.158285822	-2.679217714	0.00737944	0.036213798
CALLED S.							0.036213798 0.036213798
1995 1995							0.036213798
Server	RTP4	552.5219042	0.664080701	0.24787218	2.679125589	0.00738147	0.036213798
1,000,000 1,000,000 0,000,000 0,000,000 0,000,00		532.9355626	-0.424041134	0.158395624		0.007426217	0.03637899
COMMENS COMM							0.036429032 0.036483376
Trace							0.036483376 0.036497017
PACE	TMED1	1305.628456	0.37451647	0.1399856	2.675392816	0.007464174	0.036497017
MARCON SEL 1950-06 C.3290-071 C.2290-071 C.2290	PN RC1	3548.68137	0.330905082	0.123677075	2.675557142	0.007460515	0.036497017
MAY							0.036590117 0.036590117
							0.036659861 0.036671182
Sept. Sept						0.007513469	0.036689381
1979-181	SH2B1	3949.878953	-0.20976286	0.078485401	-2.672635396	0.0075258	0.036730128
POPERION 1776-184002	ZNF561	1607.885925	0.472119057	0.176679212	2.672182262	0.00753597	0.036760597
Digital Digi	P2RX7 PPP1R16A	2787.169475 2795.945029	-0.501266902 0.331429111	0.187595905 0.124062746	-2.672056744 2.671463606	0.00753879 0.007552126	0.036764318 0.036819612
MANIELD							0.036836504
MAGENI	FAM222A	3113.216463		0.226728491	-2.669439375		0.037012909
### ASSASZ1	ADG RV1	1914.29792	-0.78603533	0.294676952	-2.667447609	0.00764298	0.037203526
STORE							0.037203526 0.037210481
SACC 2557.053467			-0.578122676		-2.667124648	0.007650329	0.037219619 0.037249835
Section 1300 382208	RSRC2	2557.053497	-0.18560961	0.069604762	-2.666622302	0.007661772	0.037252565
KATNAL 2 378.36268	SHBD19	1390.388298	-0.522384566	0.195938872	-2.666058855	0.007674626	0.037298438
POLAI 675.665956 0.49581375 0.18609888 2.66417528 0.007716076 0.03746037 MY6 343.959972 0.4822773 0.181015203 2.664070321 0.00772042 0.3746037 MY6 343.959972 0.4822773 0.181015203 2.666070321 0.00772042 0.3746037 MY6 2.565783688 2.417248598 0.90757532 2.666070321 0.007721313 0.03746555 GPVA 2.0048.00105 0.42483904 0.195488811 2.66374524 0.007727393 0.03746555 ENOX2 623.7742012 0.40092779 0.150432503 2.66350670 0.007730826 0.03749274 AMT/AZ 2.918.822333 0.322407639 0.12045955 2.663514332 0.007733012 0.03749274 GARCZ 6681.633442 0.339935067 0.126141017 2.66317078 0.007740812 0.03749274 GARCZ 6681.633442 0.339935067 0.126141017 2.66317078 0.007740812 0.03752781 RY560V5 93.143606 0.4365866 0.15970051 2.66550650 0.007754022 0.03755781 RY560V5 93.143606 0.4365866 0.15970051 2.66535065 0.007754022 0.03755065 PN2 1422.96055 0.4722823837 0.140042753 2.66534506 0.00775402 0.0375606 PN2 1422.96055 0.4722823837 0.140042753 2.66534105 0.00775806 0.03775178 HOLD							0.037344437 0.037430385
MYHG 343.9559742 -0.48223773 -0.181015203 -0.2664070321 -0.0077720142 -0.03746555 TRMMO 2.526238088 -0.417248594 -0.097367532 -0.664073884 -0.007772131 -0.03746555 ENOIZ -0.04485004 -0.04835004 -							0.037450788 0.037460371
GPMA 2048.00101	MYHS	343.9559742	-0.48223723	0.181015203	-2.664070321	0.007720142	0.037465568
AURYAQ	G PX4	20485.00103	0.424839044	0.159488811	2.663754534	0.007727393	0.037485686
GANEZ 68.18344Z - 0.33935208 0.125167544 - 2.66273677 0.007750413 0.0375218 PPSS1 3775.753001 0.33382288 0.125167544 - 2.66273677 0.007750413 0.0375218 PRS6KOS 931.48006 9.043558688 0.163970551 - 2.662324055 0.0077754022 0.007754021 0.007775064 0.0175202 ROULT 8552.011546 0.02399490 0.233877351 0.266171479 0.0077775064 0.007773064 0.007776011 0.0077776011 0.007							0.037492473 0.037492721
RYSEAUS 931.43008 -0.4655868 0.169970951 -2.662346661 0.07754262 0.03756552 PNN2 1422.980554 -0.372823287 0.140042753 -2.662421495 0.007758066 0.03757617 TINESA 3574.38078 -0.33086677 0.11248488 -2.66124178 0.007778061 0.0375901 SPORTIS 42.27365002 -0.622394902 0.23827151 -2.66147172 0.007778061 0.037623 MOLIPI 8552.011546 -0.401997486 0.15100408 -2.661462471 0.007778061 0.037623 NOLCI 3383.79788 0.20205317 0.078224549 2.661465471 0.007779001 0.037623 MANZOI3 4282.970001 0.327531451 0.128240107 2.661465471 0.00777918 0.037623 MANZOI3 4282.970001 0.327531451 0.13824549 2.66106573 0.00777918 0.0376244 VALVES 402.99077 0.51531451 0.13864656 2.661004573 0.007797909 0.0375644 VERDO 4981.94567 0.421690422 0.13866669					-2.663170758	0.007740812	0.037521154 0.037557811
NRICEA 3574_280778	RPS6KAS	931.43606	-0.43658685	0.163970951	-2.662586561	0.007754262	0.037566588
MODIP1	TN RC6A	3574.280978	-0.330866677	0.124284883	-2.662163478	0.007764016	0.037594076
TCTENIDI 334.8476672 -0.7286881.0 0.273108544 -2.661462471 0.007780001 0.0176280 NOLCI 3503.709768 0.28205317 0.07224549 2.66136538 0.00777618 0.0376238 NOLCI 3503.709768 0.28205317 0.07224549 2.661105582 0.007774354 0.0376238 UNCGL 150.239677 -0.515116531 0.19854858 -2.66100591 0.00779079 0.01765444 7/F10 4984 145647 0.421660472 0.15846649 2.661016945 0.00779079 0.01765444 58TIB 3400.933174 0.254249 0.09555500 -2.660460065 0.077903398 0.03765544 FREQ 4776.687226 0.2666767 0.100231096 2.660528111 0.007801211 0.01795544 MBILFPS 2125.60005 0.493367895 0.185516515 2.659528111 0.007812736 0.03779344 ROH6 83.37483065 0.42787955 0.165878109 2.659512070 0.00782736 0.0379361 ROH6 83.37483065 0.454383516 0.17087716 <							0.03762302 0.03762302
KMAZO13 4282.970208 0.325797465 0.122401007 2.661715582 0.007774354 0.0376234 UNCSC 150.239677 0.515316451 0.13854856 -2.661006737 0.007790799 0.03756485 T8F 10 4989.145647 0.421690422 0.138564856 -2.66100673 0.007790004 0.03756046 SETID 3400.493174 0.254246 0.095565802 -2.660460065 0.007803388 0.03769562 PLBO2 4776.687326 0.26667647 0.10031006 2.660528111 0.007801221 0.03799354 MR4.4A 1191.44367 0.427857052 0.160878109 2.659510707 0.007825424 0.03779145 RD16 83.37483065 0.454383516 0.170877316 2.659510707 0.007825424 0.0378015 SES12 3705.434525 0.29740192 0.11147611 2.659510707 0.00783474 0.0378016 GPR3 253.4075655 0.441020643 0.165858227 2.659012807 0.007835786 0.0378037 BC78 288.1676705 0.441020643 0.165858227		334.8476673					0.03762302
TW 1D 4891.15561 0.421600422 0.158466688 2.651016945 0.00779004 0.0157504 SETDB 3400.493174 0.254246 0.095555802 -2.660460065 0.07803388 0.0376955 PLRQQ 4775.687326 0.26666747 0.10031069 2.660528111 0.07700121 0.0376956 RM11FPS 2192.60029 0.49337895 0.18531615 2.659423438 0.007827336 0.0377914 RM4.4A 1191.44367 0.47287795 0.16087810 2.65912733 0.07823424 0.0377914 ROGG 8.37483055 0.454338519 0.170877316 2.659121333 0.007823424 0.0378061 ROS12 3976.34325 0.29919992 0.111874913 2.65912372 0.07833848 0.0378061 GPR3 225.407555 0.44102648 0.16858272 2.65912372 0.07833848 0.0378078 RCTB 2281.676705 0.24713897 0.09253935 2.658725491 0.007843684 0.0178373 RCTB 2281.676705 0.24713897 0.09253935 2.658725491	KIAA2013	4282.970208	0.325797466	0.122401307	2.661715582	0.007774354	0.03762302
PLECE 4776.687328 0.266667647 0.100231096 2.666528111 0.007801821 0.03769561 RM011FP5 2192.60026 0.493367895 0.185516015 2.569428439 0.007827386 0.03779184 RM 4A 11914.41877 0.427857052 0.106678109 2.569428439 0.007827386 0.03779184 RD 16 83.37483065 0.454382516 0.170677316 2.56912133 0.00783484 0.03780616 RG 512 3976.343257 0.79749192 0.111874913 2.569148272 0.007833848 0.03780616 RG 512 3976.343257 0.79749192 0.111874913 2.569148272 0.007833848 0.03780616 RG 7875 2.54.077555 0.441020643 0.10585827 2.569148272 0.007835789 0.03789789 RG 78 2851.675705 0.241138907 0.092953933 2.5658723491 0.007843884 0.03780616 RG 78 280.667617 0.29900241 0.109437665 2.565814813 0.007857399 0.0378667 RG 78 280.667617 0.29900241 0.109437665 2.55773693 0.00785559 0.0378667 RG 78 28 28 28 28 28 28 28 28 28 28 28 28 28	TAF10	4949.145647	0.421690422	0.158469649	2.661016945	0.007790504	0.037654463
MRIFFS 2192.60026 0.493367895 0.185516315 2.659428430 0.007827336 0.03779145							0.037695629 0.037695629
ROBIG 83.37483055 0.45483516 0.170877316 2.65912133 0.007834474 0.03780617 ROS12 3976.34352, 0.279791982 0.111874913 2.659148272 0.007833848 0.03780617 ROS12 3976.34352, 0.279791982 0.111874913 2.659148272 0.007833848 0.03780617 ROPRS 25.404702555 0.441020643 0.16585227 2.65914807 0.007857898 0.0378073 ROTR 2816.176705 0.2427138997 0.092953935 2.65872.492 0.007843864 0.0378037 ROPRTS 260.667617 0.2900041 0.109437686 2.65872.692 0.007857399 0.0378859 ROS13 1213.196055 0.2827555 0.10864505 2.65775899 0.007855559 0.03791635 ROSNE 272.6580621 0.36510856 0.137384641 2.657573983 0.007870531 0.03791635 ROSNE 272.6580621 0.36510856 0.137384641 2.657573983 0.007870531 0.03791635 ROSNE 272.658063507 0.40684710 0.15271999 2.65684332 0.007870509 0.0378579	RAB11FIP5	2192.60026	0.493367895	0.185516515	2.659428439	0.007827336	0.037791451
GPR35 253.4075655 0.441020640 0.165858227 2.659021807 0.07836789 0.03780737 80.78 2881.076705 0.479138997 0.092933935 2.65872491 0.007843884 0.0783739 ACPATYS 2500.067617 0.29900341 0.104843788 2.658138813 0.007857399 0.03788997 AKB13 1231.960654 0.28827555 0.108464505 2.657778699 0.00785559 0.0379168 SISME 2328.890621 0.36109894 0.137384643 2.657773993 0.007870531 0.0379372 2787594 473.008004 0.405847108 0.15719969 -2.65644035 0.007877099 0.0379372 2787506 905.683507 -0.246953578 0.09294997 -2.65684332 0.007876069 0.03798718	RDH16	83.37483065	-0.454383516	0.170877316	-2.659121333	0.007834474	0.037806108
AG PATS 2620.667617 0.290900341 0.109437688 2.658136813 0.007887399 0.03788697 ASB13 1231.960654 0.2827555 0.108464505 2.65778699 0.00785559 0.0379635 GSDME 2326.890821 0.36510984 0.137384643 2.657573983 0.007870531 0.0379304 ZWF594 473.08504 0-0.405847108 0.15275999 2.6575446035 0.007373099 0.037932 ZWF596 909.6635207 0.246953578 0.092949997 2.655684322 0.007887609 0.03789218	G PR35					0.007836789	0.037806108 0.037807378
ASB13 1231.960654 0.28827555 0.108464505 2.65778699 0.007865559 0.03791635 GSDME 2328.890821 0.865109894 0.137384649 2.657573983 0.007870531 0.0379304 2781594 473.080804 0.405847108 0.157279699 2.6575464035 0.0078737999 0.03798718 2781506 900.6683507 0.246953578 0.092949997 2.65684332 0.007887609 0.03798718							0.03783074 0.037886973
2NF594 473,008904 -0.405847108 0.152719699 -2.657464035 0.07873099 0.037932 2NF506 909,6635207 -0.246953578 0.092349997 -2.65684332 0.007887609 0.03798716	ASB13	1231.960654	0.28827555	0.108464505	2.65778699	0.007865559	0.037916397
	ZNF594	473.008904	-0.405847108	0.152719699	-2.657464035	0.007873099	0.0379329
2.00017/033 0.007/0333 0.03736716	ZNF506 PPIA	909.6635207 40907.22646	-0.246953578 0.271679164	0.092949997 0.102261211	-2.65684332 2.656717659	0.007887609 0.00789055	0.037987184 0.037987184

PDHA1	3443.591519	0.345496116	0.130044747	2.656747948	0.007889841	0.037987184
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LTBP3	13828.71092	0.38548977	0.145149926	2.655804114	0.007911956	0.038070348
ZNF347	607.2516928	-0.310405773	0.116883324	-2.65568913	0.007914654	0.038070992
NME6	916.8091583	0.22575792	0.085011305	2.655622341	0.007916221	0.038070992
C18orf54	275.095145	-0.475676201	0.179133133	-2.655433936	0.007920645	0.038075391
FAIM	736.7770142	-0.246668168	0.092892777	-2.655407388	0.007921268	0.038075391
CLDN D1	37127.15429	-0.674128422	0.253939965	-2.654676357	0.007938453	0.0381381
FBLIM1	487.9420391	0.64047214	0.241255544	2.654745795	0.007936819	0.0381381
KLHL35	327.3698551	0.700250081	0.263825091	2.654220939	0.007949176	0.038179662
GLCE	958.046733	-0.278176187	0.104819424	-2.653861059	0.007957659	0.038210445
G PR85	1131.355352	0.429623564	0.161959798	2.652655593	0.007986131	0.038337174
ACAP3	11493.62675	-0.397816805	0.14997867	-2.652489215	0.007990068	0.038346084
CCP110	3235.226802	-0.561154719	0.211619417	-2.651716589	0.008008373	0.038387031
ZNF571	471.4555307	-0.249248158	0.093995981	-2.651689533	0.008009015	0.038387031
FBXO39	18.41561929	0.857884533	0.323512841	2.651778926	0.008006895	0.038387031
N R2C2AP	756.8189818	0.426643711	0.160885224	2.651851427	0.008005176	0.038387031
MAN 2B2	3561.242384	0.230034171	0.086742532	2.65191904	0.008003573	0.038387031
TDRD7	1506.593763	-0.260087562	0.098095811	-2.651362577	0.008016773	0.038414225
SPAG 7	2968.266474	0.323671848	0.122093409	2.651018188	0.008024952	0.038443421
GTF2A2	1981.895092	0.269017784	0.101490861	2.650660187	0.008033462	0.038464192
VPS37B NUSAP1	3248.424878	0.357944621	0.135036269	2.650729506	0.008031814	0.038464192
METTL26	497.7701119	-0.912712328	0.344367505	-2.650402013	0.008039604	0.038474181
	3317.000804	0.442618637	0.167006409	2.650309289	0.008041811	0.038474181
DCAF13	1385.545082	0.344406604	0.129949557	2.650309939	0.008041796	0.038474181
LIN52	555.155843	-0.376687087	0.142171667	-2.649522893	0.008060551	0.038551643
PTPN 7 LIAS	331.9070082 725.6246036	0.796767942	0.30072907 0.085198118	2.649454351 -2.64931438	0.008062186 0.008065526	0.038551643
TXNL4B	926.6456858	-0.2257166 0.245101715	0.092545982	2.648431734	0.008086618	0.03855761 0.038648413
AN KRD30BL	981.2733336	0.943359096	0.356255288	2.647986229	0.008097282	0.038689348
SHBG L1	4775.758505	0.347726097	0.131357602	2.647171469	0.008116818	0.038762593
CMTM7 CPQ	789.4695467 1875.79093	0.572292277 -0.428650693	0.216189066	2.647184188	0.008116513 0.008131757	0.038762593 0.038814866
STK39	2761.104013	-0.507177355	0.191644201	-2.646452913	0.008134083	0.038814866
ACSF2	1103.108641	0.363415144	0.137317982	2.646522609	0.008132407	0.038814866
HINFP	981.1574787	0.207501994	0.078412237	2.646296069	0.008137856	0.038822817
HIVEP3	913.5307908	-0.240618923	0.09094297	-2.645822143	0.008149265	0.038867186
SBF2	1846.518328	-0.541010868	0.204496554	-2.645574497	0.008155233	0.038875526
LAMP1	19202.96004	0.391831873	0.148107391	2.645592964	0.008154788	0.038875526
METRN	18388.21	0.507059096	0.191677302	2.645378924	0.008159948	0.038877892
EIF2AK4	1904.215542	0.208395147	0.078775437	2.645433094	0.008158642	0.038877892
BST2	6115.990783	0.677066087	0.256037452	2.64440254	0.008183527	0.038980155
PDE1A	1174.056105	-0.957600573	0.362155415	-2.644170248	0.008189146	0.038996838
SYNJ2	6777.202316	-0.600061788	0.226992354	-2.643533037	0.008204576	0.039060224
HSP90AA1	4003.853675	0.263421599	0.09965828	2.643248503	0.008211474	0.039072879
	48261.9486	0.174838708	0.066143387	2.643328629	0.008209531	0.039072879
ZNF488	2223.734461	-0.674065768	0.255053413	-2.642841592	0.008221349	0.039109767
C10orf55	22.60031714	1.005130807	0.380493121	2.64165303	0.008250253	0.039237137
ARID1A	3800.24758	-0.335244055	0.126930709	-2.641157987	0.008262318	0.039284381
MIEN 1	3469.054542	0.392210715	0.148536697	2.640497077	0.008278451	0.039350933
EPB41L4A	510.4410461	-0.3989132	0.151080391	-2.640403547	0.008280736	0.039351646
AG O 3	1417.834076	-0.331021458	0.12537422	-2.640267338	0.008284065	0.039357318
TRIM59	926.2168113	-0.763584617	0.289266621	-2.639725988	0.008297308	0.039370327
CCL 19	26.12030876	-1.306707562	0.495029367	-2.639656653	0.008299006	0.039370327
C9orf152	5.644719349	-0.738486667	0.279768848	-2.639631515	0.008299621	0.039370327
SNRPB2	2055.786104	0.28000648	0.106077809	2.639632947	0.008299586	0.039370327
YARS	3989.254394	0.250254437	0.094801009	2.63978664	0.008295824	0.039370327
IPPK	918.4048893	0.21661403	0.082052366	2.639948604	0.00829186	0.039370327
DN MB	2606.86423	-0.647801527	0.245438121	-2.639368016	0.008306076	0.039390806
AN KIB1	3902.599476	-0.490548305	0.185895873	-2.638833754	0.008319177	0.039435766
POLR2J3	2400.922978	-0.315220201	0.119455578	-2.638806885	0.008319836	0.039435766
OR2MB	6804.927337	-0.735745958	0.278844998	-2.638548163	0.008326187	0.039455722
	243.2938929	-0.371299586	0.140746085	-2.638081098	0.008337664	0.039489799
ARMH1	450.6559089	0.472847736	0.179234551	2.638150589	0.008335956	0.039489799
DU S4L	454.7522227	-0.298937689	0.113322589	-2.637935567	0.008341243	0.039496599
JADE3	545.3099328	-0.590009276	0.22367871	-2.637753391	0.008345725	0.039501504
TMEM233	131.8135985	0.902904169	0.342316183	2.637632143	0.008348709	0.039501504
JAML	689.5901454	0.98684209	0.374132253	2.637682481	0.00834747	0.039501504
FANCE	2120.591687	-0.411387406	0.155975965	-2.637505121	0.008351836	0.039506159
	511.6651404	0.341569408	0.129509335	2.637411487	0.008354142	0.039506926
EFN A4	149.1502	0.589559897	0.223553039	2.637226049	0.008358711	0.03951839
MMS 22L	365.5941149	-0.428337095	0.162452971	-2.636683667	0.008372086	0.03956658
MFSD8	877.9218518	-0.288978518	0.10960164	-2.636625865	0.008373513	0.03956658
TAO K3	2628.464787	-0.287330819	0.10897978	-2.636551652	0.008375345	0.03956658
CHRN A6	33.59444242	0.984682682	0.373532387	2.636137362	0.008385578	0.039584481
MVP	9363.946101	0.58577066	0.222200934	2.636220507	0.008383523	0.039584481
W DR75	1554.281539	0.186621837	0.070790487	2.63625589	0.008382649	0.039584481
HPS1	3689.183471	0.312635676	0.118606065	2.635916439	0.008391039	0.039600118
SEPSECS	647.0767087	-0.320834171	0.121738804	-2.635430611	0.00840306	0.039646698
DCAF17	757.443018	-0.353692854	0.134234919	-2.634879628	0.008416713	0.039700946
BTAF1	1704.830051	-0.513396669	0.1948724	-2.63452736	0.008425451	0.039731996
POMP	4307.680816	0.382238698	0.145146639	2.633465718	0.008451837	0.039846227
P3H4	745.2862344	0.427723358	0.162430636	2.633267773	0.008456765	0.039859262
OR1L8	9.82344913	-0.906003088	0.344071888	-2.633179637	0.008458959	0.039859413
SERPING 1	14361.51849	0.802976042	0.304989419	2.632799675	0.008468428	0.039883633
APO C4-APO C2	81.9335866	0.997524488	0.378876345	2.632849744	0.00846718	0.039883633
ANGEL2	1427.793731	-0.213766862	0.081230514	-2.631607888	0.008498188	0.040013568
PCCA	843.5204235	-0.363569134	0.138164202	-2.631427896	0.008502691	0.040024543
TMEM161A	1231.923809	0.361105446	0.137245754	2.631086469	0.008511238	0.040054546
MSHB	506.4769753	-0.306445	0.116481546	-2.630845931	0.008517264	0.040072672
SBF1	10875.19445	-0.303129859	0.115240521	-2.630410347	0.008528186	0.040112202
PCDHB14	436.9151528	-0.461701564	0.175532655	-2.630288724	0.008531238	0.040112202
TN FSF15	72.01410534	0.864874431	0.328818266	2.630250566	0.008532196	0.040112202
MTMR4	2685.88866	-0.350611265	0.133346229	-2.629330193	0.008555325	0.04021068
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ALKBH5	4826.602606	0.233172864	0.088690539	2.629061315	0.008562092	0.04022291
XKR3 NSMCE2	5.686680006 505.880434	1.764786378	0.671488364	2.628171197	0.00858453	0.040317101 0.040478329
IN HBE	11.07561664	-0.309900654 1.23578927	0.117983683 0.470481972	-2.626639948 2.626645322	0.008623252 0.008623116	0.040478329
PEXSL	4359.413691	-0.720053327	0.274174329	-2.626260931	0.008632861	0.040509766
ZNF552	232.1292534	0.403763302	0.153744168	2.626202395	0.008634346	0.040509766
AKTIP	2699.106692	-0.32235273	0.122777321	-2.625507111	0.008652	0.040582263
GLIPR2	5472.5714	0.529609356	0.20177032	2.624812979	0.008669657	
RITA1	1031.25228	0.301692209	0.114934784	2.624899092	0.008667465	0.040644394
SMARCAL1	1039.636987	0.21158332	0.080633095	2.624025774	0.008689721	0.040728094
FAF1	2089.060555	-0.41294093	0.157399806	-2.623516132	0.008702732	0.040769525
MPIG 6B	22.53721057	1.029339192	0.392352485	2.62350624	0.008702985	0.040769525
ZN F100	432.2162714	-0.420516688	0.160332916	-2.622772025	0.008721761	0.040842471
SPX	1415.353141	-0.909959853	0.346966968	-2.622612344	0.008725849	0.040842471
ATF6	2281.854159	-0.244284608	0.093147656	-2.622552401	0.008727385	0.040842471
GRM3	3683.121025	-0.766067108	0.292133759	-2.622316267	0.008733434	0.040842471
CHCHD10	3329.944455	0.579910597	0.221146507	2.62229146	0.00873407	0.040842471
ZN F747	1053.119457	0.158562075	0.060463428	2.622445994	0.00873011	0.040842471
TUT1	1214.284547	0.273023852	0.104107259	2.622524636	0.008728096	0.040842471
U BN 2	1224.789896	-0.353723514	0.134918307	-2.621760686	0.008747683	0.040895752
PRU N E 2	9071.600396	-0.506373567	0.193164326	-2.621465243	0.008755269	0.040920835
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March	RASSF1	1520.251331	0.326689246	0.124628431	2.621305932	0.008759362	0.040929584
Column			***************************************				
1.000 1.00							
Color							
1.000 1.000							0.040967021
1.000.000 1.00				0.118582071			
1965 1965 1965 1966							
Care							
1985 1985							0.041096475
1999-1999 1999							
Color							
1965 1967	PRMT3		-0.363713217	0.139004073	-2.616565184	0.00888194	0.041303376
MATERIAL							
1.00							
Color							
1985 1,985							0.041409238
STATEM							
MARCHAN MARC							
1979 1981							
Company							
1971.25							0.04147761
Marie			-0.349815621	0.1338329	-2.613823805		0.041479239
March							
	MTRF1L	1685.23783	0.205406625	0.078606151	2.613111333	0.008972207	0.041550409
Miles							
Column							0.041610399
Test	TTLL7		-0.695484936	0.266262382	-2.612028517	0.009000675	0.04162445
Color							
20050000000000000000000000000000000000	CREG 1	7646.348344	0.474073768	0.181599582	2.610544373		0.041774053
MORE							
100 110 120							
1872 97.500100 0.3890800 0.2777700 0.2677000 0.00011001 0.	W DR43	1148.562203	0.264341166	0.101338308	2.608501858	0.009093952	0.041982074
1987 17.77794							
MARCIN							
19672 2461,0000							
1925 1927 1905							
Carl						0.009122298	0.042039216
NUMBER SECTION CHESTORY CASTAGE CAST							
NESSA							
Membra							
1977 1.00							
1512584 17125860							
MORTS							
NUCTIS 6 67 2693779 G.4854477 G.18768349 Z.0003474 G.00232881 G.00	MYH7B	797.222621					0.042261096
MATERIAN 1776 1845 1776 1845 1776 1845 1776 1845 184							
DOM: 1311.0005							
2002 13112460							
CHASAIL 20.81000000							
CASSPER 76,0026059		1.312186354	2.40821082		2.60188463	0.009271304	0.042545033
Description							
COMPACE COMP							0.042717126
DARN 231 Trible 0.6103112							
LIBRAP		311 3331 233					
THIS 4115 22595	IL18RAP						0.042742325
PAMMET1							
MARIAN 458.0174288							0.042765877
THICK 2316.788078	AKR1A1		0.361774351	0.13919065	2.599128261		0.042771043
COG7 1039 998656 -0.20506389 0.078942381 -2.59764008 0.00386652 0.01292485 PLXC2 387.343782 -0.63880202 0.244466063 -2.598884917 0.009407343 0.0429733 DNF7 25.56.01206 0.332916360 0.12817334 -2.598884917 0.00940787 0.04238733 COX19 86.475247 0.215775961 0.08308186 2.59701368 0.0094178 0.04238733 NFATC2 609.410219 0.52714760 0.20302036 -2.59821288 0.0094178 0.04302075 BSM19 1276.2273 0.41021474 0.13097031 -2.598393624 0.00941280 0.04302075 BCCTO 4216.09090 0.44690427 0.1511045 -2.598041774 0.0094386 0.04302075 ECCTO 4216.09090 0.46490427 0.17911045 -2.595381610 0.00944387 0.0413021 ECCTO 4216.09090 0.46490427 0.17911045 -2.595381610 0.00944387 0.0413021 ECCTO 4216.09090 0.452658797 0.37911045 -2.595381610							
NFT 2586.601206 0.332916365 0.128197334 2.596005497 0.00940678 0.01293733 COX19 86.473247 0.215775961 0.063306126 2.59701368 0.009403818 0.04278733 NFATCZ 609.4102219 0.257147560 0.203300265 2.59501368 0.009403818 0.04382277 MPULI 2779.01415 0.34057496 0.130973013 2.596932624 0.00941278 0.04302277 MPULI 1236.22711 0.410218474 0.1580169 2.296041774 0.00943066 0.04302277 MPULI 4216.09008 0.466003422 0.17914045 2.2596041774 0.00943066 0.04302677 NECTOM 4216.09008 0.466003422 0.17914045 2.59557116 0.00943357 0.043103548 NECTOM 4216.09008 0.466003422 0.17914045 2.59557116 0.00943357 0.043103548 NECTOM 4216.09008 0.466003422 0.17914045 2.59557116 0.009443357 0.043103548 NECTOM 4216.09008 0.466003422 0.17914045 2.59557116 0.009443357 0.043103548 NECTOM 12123.24618 0.049387937 0.2901005 2.5953806169 0.009451314 0.043123458 NECTOM 5.00008 0.046003427 0.39702005 2.5953806169 0.009451314 0.043123458 NECTOM 5.00008 0.046003427 0.059033946 0.059035916209 0.009451314 0.043123459 NECTOM 5.00008 0.04600347 0.059033946 0.059035916209 0.009451314 0.043123459 NECTOM 5.00008 0.04600347 0.05903591 0.059035916209 0.009451314 0.043123459 NECTOM 5.00008 0.04600347 0.05903591 0.059035916209 0.009451314 0.009481609 0.043123591 NECTOM 5.00008 0.	COG7	1039.998656	-0.205063894	0.078942381		0.009386682	0.042924856
COX19 866.4752547 0.21577596							
NATCZ S08.102219 1.279.034151 1.0340057499 0.130972013 2.596932228 0.00941278 0.00941278 1.286.22713 0.4101218472 0.1580169 1.226.22713 0.4101218472 0.1580169 1.226.22713 0.4101218472 0.1580169 1.226.22713 0.4101218472 0.1580169 1.2295557216 0.00943357 0.0410218472 0.04102							0.042987335
BIGNT9 1236.22713							
NECTOR 4216.09000 -0.464903428 0.179114005 -2.59557216 0.00443357 0.01810914 XG 2 4106.733128 -0.797120022 0.30720936 -2.993886163 0.0044847 -0.0431318 CSC2 1223.246818 -0.49587937 0.2930005 -2.99386163 0.00448343 -0.04313343 MCFQ2 5076.6563 0.283493025 0.109255964 2.5947618 0.009465594 0.04313045 ANKAR 95.1887806 -0.40359944 0.15557552 -2.5942193 0.00448016 0.04318690 UFP11 1124.213800 0.23969215 0.092500242 2.594190124 0.00948104 0.04312899 UFP11 1242.13800 0.23969215 0.092500242 2.594190124 0.00948104 0.04312899 UFP11 1242.13800 0.23969215 0.30950024 2.59415011 0.00950027 0.04312899 UFP11 126.6313414 0.00112 3.8086097 0.334988039 2.5915070 0.00950027 0.04313855 ORBD4 5.255185767 0.80860978 0.334988039							
COCC 1221 23:4618	HECTD4	4216.90908	-0.464903428	0.179114045	-2.59557216	0.009443357	0.043109148
KCTD 5026.5563 0.28149302 0.10925964 2.59476012 0.00445694 0.0117902 ACD05702.1 8.2.1889817 0.657007309 0.33219365 2.594617152 0.009469534 0.04318003 ANIMAR 95.1818700 0.04359946 0.1555752 2.59612910 0.009461009 0.04312809 UPP11 1124.12800 0.23961215 0.092500242 2.594190124 0.00481400 0.04321899 UPP11 1.26.213807 0.30801215 0.092500242 2.594190124 0.00481400 0.04312895 ORIGIA 5.251517931 0.801111 0.308029515 -2.59155505 0.009515072 0.04313855 MRF 946,034134 0.02690274 0.34868079 -2.59125529 0.00951808 0.04344577 DIAGES 9297,19777 0.4389188 0.1707900 2.59188194 0.00954227 0.04344957 DIAGES 1373,1493275 0.308029199 0.11582751 2.591948001 0.00954327 0.04344957 DIAGES 1337,181126 1.069919553 0.41200603 2.591							
AC005702.1 82.8188937 0.557007305 0.258219855 2.594617152 0.009489534 0.04318954 1.0557572 2.59423401 0.009489160 0.04312899 1.01911 1242.123807 0.259962215 0.09590242 2.59423401 0.00948104 0.043212899 1.01911 1242.123807 0.259962215 0.09590242 2.59423401 0.00948104 0.043212899 1.01911 0.0981072 0.04333855 0.08504 2.59515747 0.058609274 0.3808093 0.25995555 0.009515500 0.04333855 0.08504 5.29515747 0.058609274 0.079820209 0.259915551 0.009515500 0.04333855 0.08504 0.5951574 0.058609274 0.079820209 0.259915551 0.009515500 0.04333855 0.08504 0.09867140 0.079820209 0.259915551 0.009515500 0.04344565, 0.0867141 0.09867141 0							0.043132453
UTP11 1242_12800 0.29963215 0.092500247 2.594190124 0.009481404 0.01321859 GARRNS 7.551517931 0.8010112 0.308929515 2.293152031 0.009510072 0.04333555 NRRF 9.66.034134 0.26860928 0.34988088 2.292555552 0.009513050 0.04333555 NRRF 9.66.034134 0.26960743 0.079822029 2.59115829 0.00953488 0.01344555 NAKRDI 6.337.39223 0.2557050 0.098677465 2.591881914 0.00954217 0.04344957 DAKES 1378.149325 0.30021919 0.11582751 2.59194880 0.00954337 0.04344957 SOFCS 1378.149325 0.30021919 0.11582751 2.59194800 0.00954337 0.0434957 WGF 3337.181126 1.069919553 0.41290663 2.591341699 0.00954337 0.0435065 TMFAP3 1313.873867 0.705694869 0.273912179 2.59057733 0.00570925 0.0435065 XGEQ 1344,6971023 0.581069690 0.224830364 2.5906		82.81889817	0.657007309	0.253219365	2.594617152	0.009469634	0.043186309
GARRR3 7.551517931 -0.8011012 0.308929515 -2.593152031 0.00951077 0.04338555 0.0804 5.295185747 -0.86800292 0.334988080 -2.592555652 0.00951550 0.034338555 0.0804 5.295185747 -0.86800292 0.334988080 -2.592555652 0.00951550 0.034334555 0.00951101 0.0434575 0.0951101 0.0434575 0.0951101 0.0434575 0.0951101							
MRRF 946.034134	G ABRR3						
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DAMSS 230 / 19776							0.043446562 0.043449573
AWARD 1343.584272 0.18464073 0.071256419 -2.591341699 0.005560251 0.01502682 VGF 3337.181172 1.0699195553 0.412906063 2.591193612 0.09564367 0.04351066 Th/APP3 11318.78388 0.079894863 0.279312173 0.09057723 0.09579275 0.043530752 AC092718.8 134.6971023 0.581096926 0.224803084 2.590677375 0.09578724 0.04355485 DCRI DI 4525.611666 0.401627547 0.155045007 2.590973386 0.09558631 0.04359841 DCRI DI 570.1640684 0.400048691 0.154447651 2.590160528 0.00993319 0.043598641 RSX 3741.598765 0.258935147 0.20123239 2.58986702 0.009601277 0.043608621 THOKCS 3997.617201 0.37031233 0.11318900 2.589742653 0.009604871 0.041608621	DN AIBS	2307.179776	0.45896188	0.17707908	2.591846991	0.009546222	0.043449573
VGF 3337.181176 1.069919553 0.412906663 2.591193612 0.00956467 0.04351066 ThFAPP 1313.873886 0.7095948683 0.273912173 2.590957733 0.009570925 0.04353748 CD02718.8 134.6971022 -0.581096928 0.224303084 -2.590677375 0.009578724 0.04353488 TPRG I1 4825.611666 0.40167747 0.15504502 2.590193386 0.009586831 0.4353488 DER D1 570.1640488 0.400048691 0.154447451 2.590160528 0.009593119 0.04359841 BBX 374.508705 -0.228935147 0.204232339 2.289889702 0.00960127 0.04360862 TONICS 3997.617201 0.370812231 0.143185005 2.589742053 0.006604787 0.04360862							
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TPMG II 4825.611666 0.401627547 0.155045002 2.590393386 0.009586631 0.04357968 DCB IQ 570.1640484 0.400046901 0.154447651 2.590165028 0.009593119 0.04359641 BIX 3741.508765 0.528935147 0.20422339 2.589869702 0.00960127 0.01506621 RETGG 1017.524001 0.285855161 0.11079847 2.589740497 0.09964831 0.043568622 TONICS 3997.617201 0.370812231 0.143185006 2.589742053 0.009604787 0.001600821							
CER DI 570.1640484 0.400043691 0.15447451 2.590160528 0.009593119 0.04359841 BEX 374,598765 0.528935147 0.204232339 2.589897022 0.00960127 0.04359861 KRIEGE 1015,75001 0.28855316 0.1019847 2.589740497 0.09964831 0.043598621 TONICS 3997,617201 0.370812231 0.143185005 2.589742053 0.009604787 0.01608621							0.043554481 0.043579681
KETRIG 1017.520401 0.285855161 0.110379847 2.589740497 0.009604831 0.04340862/ TXNDCS 3997.617201 0.370812231 0.143185006 2.589742053 0.009604787 0.043608621	DCBL D1	570.1640484	0.400043691	0.154447451	2.590160528	0.009593119	0.043598417
TXNDCS 3997.617201 0.370812231 0.143185006 2.589742053 0.009604787 0.04360862							

Dec							
1000 1010			0.043411300				0.043821192
1,000.000 1,00							0.043821192
April							0.043871131
1979 1979							0.043874901
1.00							0.043891586
MATERIAL 1964 CODE 1,000							0.043900227
MARCHAN MARCHAN CARREST MARCHAN CARREST CARR							0.043983549
Deciding							0.044017862
Col							0.044036574 0.044107472
Color							0.044107472
100.000.000.000.000.000.000.000.000.000							0.044143314
Tell							0.044143314
PATE		2265.000082				0.009773025	0.044165541
Description							0.044167269 0.044171934
1982 1982							0.044171934
PROCESSOR 193.07000 0.00000000 0.000000000 0.00000000							0.044243494
							0.044252558
1971							0.044342796
							0.044347051 0.044347051
March							0.044347051
1906 10.0000000 1.000000000 1.000000000 1.000000000 1.0000000000		01.000.00.					0.044361923
MATERIAL \$35,7000							0.044415441
10.1005 2770.35140						0.009876871	0.044452608
December							0.044452608
Company							0.044452608
10.00ms					2.37333300		0.044453796
\$10.000							0.044508777 0.044519903
Mary				0.315386989		0.009908469	0.044537361
Decided 1.0 17900487							0.044537361 0.044540221
Dec							0.044588115
Leas. Self-System C. C. C. C. C. C. C. C							0.044622829
Dec 1507 000545 0.3934885 0.1577405 2.2770777 0.00905086 0.0057778 0.00905086 0.0057778 0.00905086 0.0057778 0.00905086 0.							0.044622829
MATERIAN 2195.1915	DDT	3507.080943	0.393448887	0.152676465	2.577010723	0.009965886	0.044729983
BRILE							0.044756007
ZAMINITI							0.044757052
NULY							0.044805069
Description Commonwealth Commo							0.044805069
TAMES 46.5 10.087 0.387975-60 0.15002005 2.7542079 0.00999611 0.05							0.044805069
MAPE 1.50008599							0.044805069
DOWN SELT-PROPERTY OLIGORISMS OLIGOR							0.04490024
BELW							0.044923696
NYST St. 179000							0.045017104
NPW							0.045064004
NPW 95.2304737 1.0277553 0.401825619 2.570083844 0.01016739 0.00 KRTAPS-7 2.1801816 0.016248098 0.356775971 2.566757309 0.010182385 0.0 LYSPAN 78.1154551 0.20181650 0.3156775971 2.566757309 0.010182385 0.0 LYSPAN 1 78.1154551 0.20181650 0.112523883 2.2569753100 0.010182375 0.0 LWA13 248.9779025 0.533991012 0.207801802 2.569713100 0.010178277 0.0 LWB/II 3306.818301 0.218512770 0.0992058131 2.56975327 0.010182907 0.0 LWB/II 3306.818301 0.218512770 0.0992058131 2.569731473 0.01018404 0.0 LWB/II 3306.818301 0.218512770 0.0992058131 2.569731473 0.01018404 0.0 LWB/II 3306.818301 0.218512770 0.070204698 2.568717551 0.010207562 0.0 LWB/II 33133 0.218245733 0.0118504175 0.070204698 2.568717551 0.010207562 0.0 LWB/II 33133 0.21824563 0.0118505175 0.070204698 0.25685311 0.010207562 0.0 LWB/II 341398802 0.59113076 0.23020561 0.258653211 0.010217784 0.0 LWB/II 341398802 0.59113076 0.23020561 0.25863511 0.01021778 0.0 LWB/II 34139 0.000205877 0.38283567 0.102102069 0.256712581 0.01023778 0.0 LWB/II 34149 0.000205877 0.38283567 0.20014163 0.089914897 0.2567029156 0.01023778 0.0 LWB/II 34149 0.000205877 0.38283567 0.30014163 0.089914897 0.2567029156 0.01023778 0.0 LWB/II 34149 0.000205877 0.38283567 0.010247818 0.000205877 0.0002068							0.04520456 0.045429128
USPONL 758.1154551 - 0.289136356				0.401825619			0.045446238
New							0.045482501
ANDIDA 502,3746008 0.301730338 0.117435347 2.569331473 0.010188494 0.00 NPPSK 2128,877291 0.185063175 0.070244668 2.568717551 0.010207562 0.0 NPPSK 2128,877291 0.185063175 0.070244668 2.568717551 0.010207562 0.0 TET 12 4370,588296 0.59113764 0.230020651 -2.567863710 0.010217348 0.0 TET 12 4370,588296 0.59113764 0.230020651 -2.567863710 0.010217348 0.0 TET 12 4370,588296 0.59113764 0.230020651 -2.567863710 0.01021738 0.0 TET 12 4370,588296 0.59113764 0.230020651 -2.567863710 0.01021738 0.0 TET 12 4370,588296 0.59113764 0.230020651 -2.567863710 0.01021738 0.0 TET 12 4370,588296 0.59113764 0.230020651 -2.567863710 0.01023738 0.0 TET 12 4370,588296 0.230021453 0.088914897 -2.567029150 0.010257399 0.0 TET 12 4370,588297 0.230021453 0.088914897 -2.567029150 0.010257399 0.0 TET 12 40,00477999 1.956974277 0.750780779 2.256627938 0.010268932 0.0 TET 12 40,00477999 1.956974277 0.750780779 2.256672933 0.010268932 0.0 TET 12 40,00477999 1.956974277 0.750780779 2.256672073 0.010268932 0.0 TET 12 40,00477999 1.043606128 0.16750053 2.256670273 0.010268932 0.0 TET 12 40,00477999 1.043606128 0.04690379 2.256672629 0.010267358 0.0 TET 12 40,00477999 1.043606128 0.04690379 2.256672629 0.010267358 0.0 TET 12 40,00477999 1.043606128 0.042780739 2.256672629 0.010267358 0.0 TET 12 40,00477999 1.043606128 0.042780739 2.256674403 0.010267358 0.0 TET 12 40,00477999 1.043606128 0.042780739 2.256674403 0.010267358 0.0 TET 12 40,00477999 1.045651158 0.0427793822 2.256673503 0.010267358 0.0 TET 12 40,00477999 1.045651158 0.0427793822 2.256673759 0.010277918 0.0 TET 12 40,0047799 1.045651159 0.04674791 0.05651159 0.010277919 0.0 TET 12 40,0047799 1.045651159 0.04674791 0.05651159 0.010277919 0.0 TET 12 40,0047799 1.045651159 0.04674791 0.05651159 0.01027791 0.002							0.045482501
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TGT12 4570.988024 -0.991136764 0.230005661 -2.567863710 0.010232738 0.0 TCEAR7 261.151967 -0.182835467 -0.148129669 -2.56712516 0.010254575 0.0 MTS4 883.0586877 -0.20814161 0.0889379 -2.56702516 0.010257399 0.0 RVS2 540.3049489 -0.3084161 0.08893128 -2.56911713 0.010256973 0.0 RVS2 540.3049489 -0.3989592929 0.136217888 -2.56911713 0.010256973 0.0 FORDN 941.3306237 0.378779578 0.14758057 2.566670373 0.010256812 0.0 FPC4 1333.64571 0.45068128 0.159901968 2.566670275 0.010267358 0.0 FPX 79.4380144 0.07782774 0.244608372 2.566672603 0.01026738 0.0 SMTG 167.274597 0.21154588 0.082442915 2.56647270 0.010274918 0.0 CFPSL 453.194419 -1.37534888 0.082444915 2.56619708 0.0102274918 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th>0.045497217</th></t<>							0.045497217
TCZAZ							0.045594792
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CST2 4.0409759 1.926974247 0.750782079 2.566672593 0.010269432 0.0 PORN 941306237 0.378795974 0.14758053 2.566673973 0.010269137 0.0 PORN 941306237 0.378795974 0.14758053 2.566673973 0.010269378 0.0 PORN 941306237 0.378795974 0.14758053 2.566673973 0.010269378 0.0 PORN 941306237 0.378795974 0.14758053 2.566673973 0.010267378 0.0 PORN 941306237 0.00000000000000000000000000000000000							0.045735949
PORC							0.045735949
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SMITOS 1629 734597 0.211584559 0.082442919 2.566437379 0.010274918 0.0 DR. 178 216690 -1.04651158 0.407993822 -2.56610708 0.010274918 0.0 CPRSL 4531954419 -0.37533822 0.145599999 -2.56610708 0.010234629 0.0 VOXC3 4626.41051 0.245375002 0.095622778 2.566073561 0.010285701 0.0 PSMA4 4557.996338 0.27844808 0.10833921 2.565586995 0.01030014 0.0 UBM11 1947.491376 0.138620145 0.131310052 2.565586995 0.0103014 0.0 SEC13 4288.69953 0.71860633 2.564778819 0.010324159 0.0 SEC13 4288.69953 0.27868079 0.30556671 2.56130648 0.01038472 0.0 SEC13 4288.69953 0.27886409 0.30556671 2.56130648 0.01038472 0.0 SEC14 4288.69953 0.27886409 0.30556671 2.561306480 0.010356772 0.0							0.045735949
DT. 178.216600 -1.0465158 0.40779835 2.5661700 0.010279699 0 CEPSL 453.195419 -0.37338322 0.45565999 -2.56619708 0.010279699 0 VMC3 4626.41051 0.245377082 0.095822778 2.566073563 0.01028701 0 PSMC4 4557.996338 0.27844808 0.10831921 2.565589695 0.01030014 0 UBN11 1947.491376 0.33620145 0.131301057 2.565589919 0.010310122 0 FEFRAMP1 1681.756409 0.183742279 0.071464633 2.564778819 0.010312419 0 SEC13 4238.69993 0.271686707 0.10596671 2.56130088 0.01031419 0 SET14 562.3352281 0.278364905 0.30757451 -2.56170688 0.01031407 0 SET14 6.006000000000000000000000000000000000							0.045735949
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PSMCA 455796535 0.2784800 0.10851921 2.565586945 0.01030014 0.0 UBON11 1947.491379 0.336820145 0.1381301057 2.565586945 0.010310127 0.0 UBON11 1947.491379 0.336820145 0.131301057 2.565520919 0.010310127 0.0 UBON11 1947.491379 0.336820145 0.0131301057 2.566478819 0.01032419 0.0 UBON12 1428.69953 0.27868707 0.010595671 2.564170819 0.01032419 0.0 UBON13 1428.69953 0.27868707 0.010595671 2.564170819 0.01032410 0.0 UBON14 150.5633352281 0.78866805 0.30575451 2.566170841 0.010356107 0.0 UBON14 150.5633314 0.58008109 0.31867557 2.566388426 0.01035677 0.0 UBON14 150.5638314 0.58008109 0.31867557 2.566388426 0.01035677 0.0 UBON14 150.5488477 0.52843959 0.307171276 2.56538740 0.010359663 0.0 UBON14 150.5638477 0.152435252 0.126695715 2.56538740 0.000395663 0.0 UBON14 150.5638477 0.524535252 0.126695715 2.25617405 0.0103174749 0.0 UBON14 150.5638477 0.52453525 0.126695715 2.25617405 0.0103174749 0.0 UBON14 150.56384 0.24752096 0.472287192 0.18426534 2.563082174 0.010374749 0.0 UBON14 150.56384 0.25843930 0.115052916 2.567640877 0.010374749 0.0 UBON14 150.56384 0.35843930 0.115052916 2.567640877 0.010374749 0.0 UBON14 150.56384 0.35873759 0.15463386 2.55222156 0.010387944 0.0 UBON14 170.83322 0.359515575 0.15463386 2.55222156 0.010387944 0.0 UBON15 170.7383222 0.359515582 0.360474884 2.561720329 0.010346616 0.0 UBON16 170.83322 0.316739167 0.1266786 2.56170509 0.01042784 0.0 UBON18 170.83322 0.316739167 0.1266786 2.56170509 0.01043784 0.0 UBON18 170.83322 0.316739167 0.1266786 2.56102021 0.01043076 0.0 UBON18 11114031 0.57337499 0.22388355 2.56102817 0.01043076 0.00							0.045764169 0.045764169
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MMP28 1326.583914 0.560081309 0.218467351 2.563684146 0.010356772 0.0 HST2HAR 186.3437811 0.787460395 0.307171276 2.563587343 0.010359633 0.0 ZYR644 1565.948727 0.125435525 0.12695715 2.256137403 0.01031934 0.0 CVBS51A3 2247.520961 0.472287152 0.184285334 2.561082174 0.010374740 0.0 NTSC2 3175.418814 4.024859306 0.119052916 2.562608217 0.010374740 0.0 RNX 907.5337395 4.01031428 0.19903135 2.56393167 0.010387944 0.0 TMEMI34 219.83208 0.38071577 0.11462388 2.562282156 0.0103868 0.0 CNSR3 876.7246468 -0.359715982 0.10047484 -2.561750229 0.010414616 0.0 NAFMQ 1472.83322 0.16793167 0.12366786 2.561020828 0.01043076 0.0 MORUS 219.302218 0.57337499 0.22885351 2.56102827 0.01044045							0.045976806
N572 N573 N574							0.046013728
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NTSC2 3175.41581.4 -0.294839305 0.115052916 -2.562640877 0.010387944 0.0 RFX3 907.5337356 -0.510431428 0.199201135 -2.562392167 0.01095386 0.0 LTMEMI34 2193.832080 0.396215579 0.15463386 2.562282154 0.01039668 0.0 LTMEMI34 876.7426468 -0.359791388 0.14047484 -2.561790329 0.010444616 0.0 RFGRP1 47.22397317 -0.55522582 0.216759847 -2.561790329 0.010442784 0.0 RFGRP1 477.283232 0.316793167 0.12566786 2.561208428 0.010439876 0.0 RFGRP1 1131.34055 -0.572374996 0.205831518 -2.561020812 0.010443942 0.0 RFGRP 2367.302218 0.573374996 0.223883158 2.56102817 0.01043645 0.0	ZNF644	1565.948727	-0.325435525	0.126965715	-2.563176405	0.010371934	0.046058883
RYX 907.5337355 -0.510431478 0.199201135 -2.562292167 0.010395386 0.0 TMEMI34 2193.832089 0.396215579 0.15463384 2.561228154 0.01039668 0.0 CINGRI 876.7264686 -0.139791388 0.104047424 -2.5517903129 0.010414616 0.0 RPGRIP1 47.22397337 -0.555225587 0.216759847 -2.561478009 0.010422784 0.0 INAFNO 1274.78.83232 0.316739167 0.12366786 2.561208428 0.010438076 0.0 IGA2 1113.14055 -0.572725016 0.025875431 -2.561073035 0.010448442 0.0 MRW8 2367.00218 0.573374998 0.228883558 2.561027817 0.01043695 0.0							0.046060283
CNISR3 876.724648 -0.359791380 0.14047484 -2.561750329 0.010414616 0.00 RPGRIP1 47.22397317 -0.55522582 0.216759847 -2.561478009 0.010427284 0.00 NAFMQ 17.47.883232 0.316739167 0.12366788 2.561208428 0.010430876 0.00 TIGGQ 1113.14095 -0.572756016 0.205873431 -2.561073055 0.0104494Q 0.00 MARMA 2367.302218 0.573374998 0.223887349 2.561022817 0.01048645 0.00	RFX3	907.5337356	-0.510431428	0.199201135	-2.562392167	0.010395386	0.046129683
RPGRP1 47.22997337 -0.555225552 0.216759847 -2.561478000 0.010422784 0.0 INAFNO 1247.883232 0.316793167 0.12366786 2.561208428 0.010438076 0.0 ITGA2 1113.14055 -0.527252016 0.025678431 -2.561073035 0.010438402 0.0 MRWA8 2267.302218 0.573374998 0.223883158 2.561022817 0.01043645 0.0							0.046133191
NAT-NC 1474.883232 0.3167.99167 0.12366786 2.561209418 0.010430976 0.0 ITG A2 1113.14035 -0.572262016 0.058975431 2.561073035 0.010434042 0.0 MKRAB 2367.302218 0.573374958 2.228835158 2.561027217 0.01043645 0.0							0.046192768 0.046217874
MXRAS 2367.302218 0.573374998 0.223885158 2.561022817 0.01043645 0.0	N AFM2	1747.883232	0.316739167	0.12366786	2.561208428	0.010430876	0.046242629
							0.046245093
	[MEM171	68.84853394	-0.893230534	0.348877334	-2.560299704	0.010458193	0.046330298
							0.046424934
							0.046436399
SLC04CI 15.31211109 1.196475429 0.467531875 2.559131232 0.010493412 0.0	SLCO4C1	15.31211109	1.196475423	0.467531875	2.559131232	0.010493412	0.046436399
							0.046436399
GDNF 193.4409988 0.760697664 0.297348772 2.55826738 0.010519517 0.0	SDNF	193.4409988	0.760697664	0.297348772	2.55826738	0.010519517	0.046512521
							0.046512521
							0.046538693
HCST 687.3664286 0.658997847 0.25774956 2.556737036 0.010569906 0.0	HCST	687.3664286	0.658997847	0.25774956	2.556737036	0.010565906	0.046684027
							0.046747673
	PLCD8					0.010605966	0.046827345
	RNF148	3.500784274	1.286251494	0.503456941	2.554839134	0.010623688	0.04689436

BCHE	738.8221824	-0.646434688	0.253051189	-2.554560955	0.010632181	0.04692061
ZSCAN 20	1554.169293	0.302268682	0.118333314	2.55438364	0.010637598	0.046933275
	164.1105437	0.319097497	0.124959576	2.553605795	0.010661388	0.047026981
ATXN 7L1	307.661546	-0.340050138	0.133172158	-2.553462704	0.01066577	0.047035051
IKZF3	138.3408155	-0.516898771	0.202442593	-2.553310368	0.010670437	0.047035297
PKDREJ	10.91724202	-0.881479835	0.345232374	-2.553294248	0.01067093	0.047035297
ZNF428	4828.468122	0.429504466	0.168238517	2.552949675	0.010681493	0.047070596
TARSL2	2048.856783	-0.399297857	0.156439175	-2.552416014	0.01069787	0.047126679
HMG B3	1535.068684	0.46921681	0.183841849	2.552285085	0.010701891	0.047126679
POLR2E	7053.832363	0.25370028	0.099398941	2.552343901	0.010700084	0.047126679
SLC24A2	6300.75569	-0.764351036	0.299490297	-2.552172956	0.010705336	0.047130588
PRCD	826.5889792	-0.719659921	0.282013975	-2.551859072	0.010714985	0.0471618
FAM72B	102.8106716	-0.702849096	0.27565389	-2.549752143	0.010779953	0.047425101
MR1	1903.152688	0.494467544	0.193923295	2.549809932	0.010778166	0.047425101
PPW D1	1185.150912	-0.237261712	0.093060621	-2.549539325	0.010786535	0.047442731
PROX1	1305.278559	-0.527450936	0.206896557	-2.549346123	0.010792513	0.047457699
JARID2	1059.601617	-0.337938433	0.132584118	-2.548860589	0.010807549	0.047494828
ZCCHC24	13468.84578	-0.508292494	0.19942237	-2.548823853	0.010808688	0.047494828
TFE3	5646.589747	0.240477214	0.094343021	2.548966653	0.010804263	0.047494828
CNTNAP4	6833.374729	-0.787846948	0.309129246	-2.548600493	0.010815612	0.047502601
SAYSD1	734.7029682	0.219498765	0.086122416	2.548683335	0.010813044	0.047502601
LAMA2	857.5628813	-0.490266773	0.192393317	-2.548252614	0.010826404	0.047538672
TMEFF2	1719.673892	-0.606455883	0.238053303	-2.547563409	0.010847814	0.047611556
TIMM23B	463.894014	-0.277698706	0.109006101	-2.547551954	0.01084817	0.047611556
C11orf45	161.0629403	0.540138787	0.21209128	2.54672793	0.010873817	0.047712757
FLT3LG	455.4363043	0.476971331	0.187295097	2.546630103	0.010876866	0.047714773
UBL7	2925.070563	0.370206214	0.145376968	2.546525892	0.010880114	0.047717663
TUBA1B	57529.5509	-0.336117067	0.132051894	-2.545340745	0.010917115	0.047868549
ZNF891	330.7991844	-0.433043061	0.1701513	-2.545047032	0.010926302	0.047897436
IFT88	943.458087	-0.348419417	0.136907843	-2.544919331	0.010930299	0.047900466
GPR84	192.2010924	0.854117683	0.335624775	2.544858859	0.010932192	0.047900466
HIST1H1E	33.19657662	0.927133895	0.364380323	2.544412627	0.010946169	0.04795031
RIO K2	794.6965555	0.182776195	0.071842879	2.544110124	0.010955654	0.047969053
CASZ1	171.503567	0.526378969	0.206894566	2.544189434	0.010953166	0.047969053
TRIB3	734.3996186	0.761040766	0.299162642	2.543903082	0.01096215	0.047986094
GBF1	3078.577134	-0.209370744	0.082319032	-2.543406281	0.01097775	0.04801639
MAN 2C1	6244.347214	-0.212488693	0.083546617	-2.543354845	0.010979367	0.04801639
PET117	496.7208311	0.266277729	0.104695635	2.543350832	0.010979493	0.04801639
W DR53	335.5497686	0.255457864	0.100438805	2.543417989	0.010977382	0.04801639
MEA1	4178.235828	0.286272067	0.112571408	2.543026432	0.010989692	0.048038194
CUEDC2	4033.020684	0.346330496	0.13618619	2.543066192	0.010988441	0.048038194
COPG2	1254.615982	-0.276009203	0.108539773	-2.542931463	0.010992679	0.048039858
ENAH	4627.0266	-0.318611315	0.125313562	-2.542512637	0.011005862	0.048086068
SLC39A13	3364.186997	0.323202821	0.127133277	2.542236215	0.011014571	0.048101309
HLA-B	50507.6501	0.618993017	0.243478031	2.542295148	0.011012714	0.048101309
SLCO2B1	9535.94382	-0.604002712	0.237601719	-2.542080562	0.011019477	0.048104442
CLCA2	160.9315789	0.98215057	0.386361952	2.542047848	0.011020509	0.048104442
ZNF274	1207.307079	-0.31958827	0.125754297	-2.541370571	0.011041882	0.048186323
RPIA	432.0823055	0.290818851	0.114439423	2.541247084	0.011045783	0.048191935
BAIAP2	3040.812129	0.448832415	0.176662509	2.540620632	0.011065591	0.048266931
NPHP3	1028.942282	-0.417409682	0.164338071	-2.539945117	0.011086987	0.04832594
UNC119	1434.736074	0.304243438	0.119779618	2.540026795	0.011084398	0.04832594
STEAP4	98.98409863	0.679660711	0.267576601	2.540060337	0.011083335	0.04832594
ZNF726	94.4113365	-0.543859825	0.214165909	-2.539432292	0.011103253	0.048369729
N CBP3	2524.746815	-0.292804955	0.115305677	-2.539380211	0.011104907	0.048369729
LOXL4	193.3568325	0.586877953	0.231108149	2.539408312	0.011104015	0.048369729
PLEKHO1	4034.795408	0.371353008	0.146246306	2.539230011	0.011109676	0.048379067
CYCS	5385.354834	0.281469717	0.110854049	2.539101804	0.011113748	0.048385367
KCNE4	410.1653167	-0.580918632	0.228801817	-2.538959872	0.011118257	0.048393568
CST6	12.09306582	1.097740228	0.432384289	2.538806929	0.011123119	0.048403295
RASA1	1471.549314	-0.377609768	0.148745426	-2.538631127	0.011128709	0.048406483
CCL7	1147.919843	-0.480964262	0.189459041	-2.538618689	0.011129105	0.048406483
	70.91794352	1.656561424	0.65276908	2.537744934	0.011156927	0.048516045
VSTM2B	1591.115081	-0.762512472	0.300509529	-2.537398645	0.01116797	0.048552612
COPZ1	4731.905653	0.237088189	0.093444359	2.537212436	0.011173913	0.048566989
TBC1D5	3212.091064	-0.551599319	0.217444873	-2.536731776	0.011189265	0.048622249
SEC14L1	5820.021817	-0.283228268	0.111676433	-2.536150728	0.011207848	0.048691522
PPIAL4C POLR3D	2.65844094 907.2755408	2.333861432 0.27447352	0.920269017	2.536064335	0.011210614 0.01121833	0.048692057
ENDOG	1068.269929	0.467468543	0.184340755	2.535893609	0.01121608	0.048702614
TMEM160	3313.622239	0.14032862	0.055343342	2.535600754	0.011225463	0.048722106
	2413.586298	0.603095038	0.237882443	2.535265029	0.011236228	0.048757346
N R1D2	1617.907144	-0.345351201	0.136227283	-2.535110391	0.01124119	0.048764361
XKR7	198.1184936	1.095816173	0.432266147	2.535049714	0.011243137	0.048764361
DHRS7	4177.257679	0.327706752	0.129279824	2.534863843	0.011249104	0.048778762
FKBP11	614.6554217	0.39941358	0.157598841	2.534368767	0.011265011	0.048824763
RPL37A LRRC1	35860.79789 962.46785	0.411310907 -0.42644644	0.162292342	2.534382727	0.011264562 0.011275095	0.048824763
KRTAP5-5	1.729640401	-1.475491175	0.582269683	-2.534055273 -2.534034003	0.011275779	0.048848456
RICTOR	1647.06186	-0.43853322	0.173076139	-2.533758971	0.011284632	0.04887532
RBM44	21.53274259	-0.691246314	0.272901866	-2.532948286	0.011310764	0.048976989
NU BPL	489.437832	-0.374564993	0.147883662	-2.53283553	0.011314403	0.048981237
TYW 1	924.7712169	-0.331076378	0.130727997	-2.532559085	0.011323328	0.049008365
U BE2E1	4007.772581	-0.20382418	0.080486681	-2.532396368	0.011328585	0.049019604
AC007906.2	55.92873622	0.806426645	0.31846242	2.532250574	0.011333297	0.049028481
DYN C112	8781.446286	-0.336753038	0.133002943	-2.531921704	0.011343932	0.049059262
RG S11	4360.557025	-0.506612058	0.200094346	-2.531865929	0.011345736	0.049059262
SARN P	2229.757964	0.30077251	0.118804799	2.531652859	0.011352632	0.049077565
ANO8	2660.496978	-0.383305275	0.15141367	-2.531510372	0.011357246	0.049085995
TOR2A	707.4362556	0.276469979	0.10924882	2.530644991	0.011385302	0.049195716
USP48	1889.414127	-0.585404592	0.23137552	-2.530105999	0.011402807	0.049254519
	2743.263935	-0.220086007	0.086988405	-2.530061426	0.011404256	0.049254519
BCL2L2	5989.567599	-0.44876803	0.177406357	-2.529605127	0.011419096	0.049303953
NEK7	2965.735839		0.245488947	-2.529545006	0.011421053	0.049303953
CALCB		-0.62097534				0.049358338
LRRC25	28.19686596 852.6356517	-0.62097534 0.954760369 0.691207031	0.377538062 0.273316503	2.528911561 2.528961931	0.011441685 0.011440044	0.049358338
CAPN 10	28.19686596 852.6356517 1697.952066	0.954760369 0.691207031 0.273069801	0.377538062 0.273316503 0.107972797	2.528961931 2.529061107	0.011440044 0.011436811	0.049358338 0.049358338
CAPN 10 LDB3 COIL	28.19686596 852.6356517 1697.952066 2687.892111 669.1703181	0.954760369 0.691207031 0.273069801 -0.754091187 0.18503908	0.377538062 0.273316503 0.107972797 0.29828072 0.073195677	2.528961931 2.529061107 -2.528125809 2.528005569	0.011440044 0.011436811 0.011467325 0.011471253	0.049358338 0.049358338 0.049457369 0.049462734
CAPN 10 LD83	28.19686596 852.6356517 1697.952066 2687.892111	0.954760369 0.691207031 0.273069801 -0.754091187	0.377538062 0.273316503 0.107972797 0.29828072	2.528961931 2.529061107 -2.528125809	0.011440044 0.011436811 0.011467325	0.049358338 0.049358338 0.049457369
CAPN 10 LDB3 CO IL MEF2B	28.19686596 852.6356517 1697.952066 2687.892111 669.1703181 253.0720635	0.954760369 0.691207031 0.273069801 -0.754091187 0.18503908 0.744002137	0.377538062 0.273316503 0.107972797 0.29828072 0.073195677 0.29439171	2.528961931 2.529061107 -2.528125809 2.528005569 2.527252334	0.011440044 0.011436811 0.011467325 0.011471253 0.011495887	0.049358338 0.049358338 0.049457369 0.049462734 0.049557359
CAPN 10 LDB3 COIL MEF2B GALN 17 CCOFF APP NSFLIC	28.19686596 852.6356517 1697.952066 2687.892111 669.1703181 253.0720635 1567.08775 309.8409567 46288.27965 5309.300949	0.954760369 0.691207031 0.273609801 -0.754091187 0.18503008 0.744002137 -0.433852276 0.670635925 -0.396614073 0.23538677	0.377538062 0.273316503 0.107972797 0.29828027 0.073195677 0.29439171 0.171676461 0.26539967 0.156991149 0.09318092	2.528961931 2.529061107 -2.528125809 2.528005569 2.527252334 2.527150631 2.526366718 2.526246644 2.526126256	0.011440044 0.011438811 0.011438815 0.01147123 0.01147123 0.011495887 0.011495217 0.011507556 0.011532803	0.049358338 0.049358338 0.049457369 0.049567379 0.049557359 0.04956012 0.04956012 0.049670021
CAPN 10 LDB3 COIL MEF2B GALNTT CCHF APP NSFL1C UBL5 CXL16	28.1968596 852.635637; 1697.952066 2687.892111 669.1703181 253.0720635 1367.08775 309.8409567 46288.27976 5303.000969 6977.063329 5546.629997	0.954760369 0.691207031 0.273669801 0.754091387 0.1850390 0.74400137 0.43385276 0.67063922 -0.396614073 0.23538677 0.399165155 0.577715680	0.37753062 0.27331650 0.107972797 0.29828072 0.07316977 0.23439171 0.17167461 0.2653967 0.156991149 0.09318092 0.1589037099	2.528961931 2.529061107 2.52815500 2.52805500 2.52755233 2.52755690578 2.526366714 2.53612656 2.53758682 2.53758682	0.011440044 0.011448011 0.011467325 0.011473253 0.011497325 0.011499277 0.011597735 0.011597735 0.011532567 0.011532874	0.049358338 0.049358338 0.049457386 0.049462734 0.04956012 0.04956012 0.04956012 0.04957012 0.04957012 0.04970884
CAPN 10 LEBS COIL MEFZB GALN 17 COMF APP NSFL1C UBLS	28.1968596 882.6356517] 1697.952066 2687.892111 669.1703181, 253.0720615 11567.08775 300.8409567 46278.27976 5303.300549 6977.063529	0.954760369 0.691207031 0.273696801 0.754091187 0.1859308 0.744002137 -0.433852276 0.670635925 -0.396614073 0.25338677 0.399165155	0.377538062 0.273316503 0.107972737 0.29628072 0.073155677 0.29439171 0.171676461 0.26539667 0.156991140 0.09318092 0.1580317099	2.528961931 2.529061107 -2.528125809 2.528025566 2.527252334 -2.527150631 2.526890578 -2.52634674 2.526126256	0.011440044 0.011438811 0.011467325 0.01147123 0.011499887 0.011499217 0.011507735 0.011525567 0.011532803	0.049358338 0.049358338 0.049362734 0.04956372 0.04956012 0.04956012 0.04956032 0.049570021
CPN10 LDB3 COIL MEF28 GAUNT7 CONF APP NSFLIC UBL5 COXL16 TOR18	28.1968596 82.26356317 1697 95.2066 2687.892111 669.1793181 253.072635 1367.08775 309.8409567 46238.27976 5309.30949 6977.063329 556.63997 1171.308283	0.954760369 0.691207031 0.273069801 0.273069801 0.754091187 0.18503906 0.744001137 0.433852276 0.670653922 0.396614073 0.23538677 0.399165155 0.577715688	0.37753062) 0.27331650] 0.107972797 0.29828072 0.073155577 0.29439171 0.171676461 0.26539967 0.156991149 0.09318092 0.158037090 0.228834735	2.528961931 2.539961197 2.528125899 2.52805569 2.527755233 2.527852336 2.527756931 2.528690737 2.528690736 2.525690737 2.525695786 2.525786822 2.52578682 2.52578682	0.011440044 0.011448011 0.011467325 0.011467325 0.011467327 0.011467327 0.011469217 0.01157357 0.01152567 0.011523603 0.011545497 0.0115834547	0.04938338 0.04938333 0.049457396 0.04962734 0.04955012 0.04956012 0.04956012 0.04956012 0.04967003 0.04967003 0.04967003
CAPN10 LDB3 COL MEF2B GAINT7 CONF APP NSFLIC UBLS CKL16 ISNO2 NIPAZ NAPS PI3	28.19685906 852.6396371 1699.952066 2687.892111 669.1703181 253.0720635 1367.08775 300.8409567 46288.27976 5309.300984 6977.063529 5546.02997 1171.308098 1122.12714001 3600.319565 531.919295	0.954760369 0.691207031 0.273609801 0.734091817 0.18503900 0.74400137 0.433852276 0.67063925 0.396614073 0.32588677 0.399165155 0.5777715685 0.2001573 0.338133409 0.218691134) 0.322216671 1.656404959	0.3775300.7 0.27331650 0.107972797 0.2731650 0.107972797 0.2731650 0.25439171 0.17167661 0.25639967 0.156991140 0.09318027 0.158037099 0.22884735 0.11455952 0.056648211 0.128072529 0.056648211 0.128072529	2.528961931 2.529061197 2.528125809 2.528005569 2.527762334 2.527756234 2.52776662 2.526866778 2.52686678 2.525768682	0.011440044 0.011448011 0.011467325 0.011471253 0.011471253 0.011479217 0.011597735 0.01157735 0.011532603 0.011532803 0.011532803 0.011538035 0.01153805 0.0116388156 0.011608445 0.011608445 0.011608459 0.01161269	0.04935833 0.04935736 0.049467366 0.049467366 0.04955725 0.04956012 0.04956012 0.04956046 0.04967031 0.04997031 0.04997351 0.04997451
CAPN 10 LUB3 COL ME728 GALNT7 CONF APP APP INSFILC UBL5 OKC.16 TORIB SAVOZ NUPAZ MAP15	28.1968596 852.6356317 1697 952066 2687.892111 669.1793181 253.0720635 1367.08775 309.8409567 46238.27976 5309.309849 6977.063329 5366.62997 1171.308283 112.0130089 1872.273401 3690.319366	0.954760360 0.691207031 0.273069801 0.273069801 0.754091187 0.18503900 0.744001137 0.433852276 0.670653922 0.396614073 0.23538677 0.399163515 0.577715688 0.290197550 0.290197550 0.2353813400 0.218891431 0.332216671	0.37753002 0.273316503 0.107972797 0.29828072 0.073195677 0.11676616 0.26539967 0.159991149 0.09318092 0.158037099 0.228834733 0.116955049 0.211239988 0.086648211 0.11807529	2.528961931 2.529061107 2.528125809 2.528055609 2.527752534 2.527752534 2.52752534 2.526805757 2.526846714 2.525146756 2.5257785882 2.525478765 2.525478765 2.52547876 2.52547876 2.52547876	0.011440044 0.011448011 0.011467325 0.01147253 0.011497257 0.011499217 0.011592567 0.011532603 0.011545497 0.011588154 0.011606199 0.01161606199	0.04938338 0.04938338 0.049457396 0.04957396 0.04956012 0.04956012 0.04956012 0.04956012 0.04967002 0.04967002 0.04967344 0.049937451 0.049937451

654 tags=9%, list=3%	0.998	0.6878964 0.9910655	0.6782178 0.9640288	0.9272463	0.1902	104	HALLMARK_PI3K_AKT_MTOR_SIGNALING HALLMARK_PANCREAS_BETA_CELLS
2773 tags=19%, list=1	0.985	0.49565935	0.52755904	0.9974	0.187	200	HALLMARK_APICAL_JUNCTION
2128 tags=15%, list=1	0.917	0.28989896	0.22689076	1.0790316	0.2009	199	HALLMARK_KRAS_SIGNALING_UP
911 tags=17%, list=5	0.713	0.1613807	0.2027027	1.159393	0.2974	36	HALLMARK_ANGIOGENESIS
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		pre-CED	post-CED outside mask	post-CED inside mask	
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	gl_Pro2		5	0	0
	gl_PN1		11	б	\vdash
	gl_PN2		6	5	4
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	gl_Mes2		7	11 1	4
	AC_Neftel		3	2	ω
	G1/S_Neftel		ω	L	Ν
	G2/M Neftel		7	5	0
	MES1_Neftel		1	4	Q
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	NPC2_Neftel		5	4	UΠ
	OPC_Neftel		9	6	0



Herbert Irving Comprehensive Cancer Center Protocol



CUMC IRB#: AAAQ9520 Version Date: 04/03/2019

TITLE: CHRONIC CONVECTION ENHANCED DELIVERY OF TOPOTECAN FOR

RECURRENT HIGH GRADE GLIOMAS

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Other Agent:	Gadolinium
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	IND Sponsor: Jeffrey Bruce, MD

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Amended: 10/15/2018
Amended: 11/01/2018
Amended: 04/03//2019

Protocol Signature Page

I confirm that I have read this protocol, I understand it, and I will work according to this protocol and to the ethical principles stated in the latest version of the Declaration of Helsinki, the applicable ICH guidelines for good clinical practices, and the applicable federal, state, and local laws, rules, and regulations relating to the conduct of the protocol. I have read and understand the information in the Investigators' Brochure (or Manufacturer's Brochure) regarding the risks and potential benefits. I will promptly submit the protocol to the applicable IRB for review and approval. Once the protocol has been approved by the IRB, I understand that any modification made during the course of the study must first be approved by the IRB, prior to implementation except when such modification is made to remove an immediate hazard to the subject. I certify that I, and the study staff, have received the requisite training to conduct this research protocol. I agree to maintain adequate and accurate records in accordance with Columbia University and Herbert Irving Comprehensive Cancer Center policies, Federal, state and local laws and regulations. I agree to maintain the confidentiality of all information received or developed in connection with this protocol.

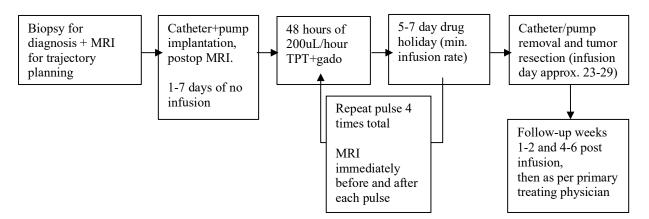
Instructions to Principal Investigator: Sign and Date this signature page and print your name. Return the original, completed and signed to the Clinical Protocol & Data Management Office. Retain a copy in the regulatory binder.

Signature of Principal Investigator	Date
Principal Investigator Name (Print)	

Protocol Synopsis

Title	Chronic Convection Enhanced Delivery of Topotecan for Recurrent High Grade Gliomas
Short Title	Chronic TPT CED for Recurrent HGG
Protocol Number	AAAQ9520
Phase	Phase Ib
Methodology	Open label
Study Duration	5 years
Study Center(s)	Single center
Objectives	The aim of this study is to assess safety of chronic TPT CED in patients with recurrent high grade glioma (WHO grade III-IV), and to characterize the drug's intracerebral distribution using an innovative, non-invasive methodology.
Number of Subjects	5 Evaluable
Diagnosis and Main Inclusion Criteria	Patients with recurrent high grade glioma (WHO grade III-IV).
Study Product, Dose, Route, Regimen	~20 mL of 146 uM topotecan with 1:100 gadolinium by chronic pulsatile intracerebral convection enhanced delivery.
Duration of administration	Approximately 23-29 days
Reference therapy	Standard reference therapy: temozolomide, radiation
Statistical Methodology	Clinical toxicity (defined by a serious adverse event) is projected to be ≤ 5% at approximately 23-29 days. A clinical toxicity rate that exceeds 20% will be considered unacceptable for this procedure. We will use a truncated Sequential Probability Ratio Test (SPRT) to determine whether the rate of toxicity exceeds our target. We will use correlation analysis to determine the relationship between gadolinium signal intensity and distribution on MRI and the direct measurement of TPT levels. The power calculations are framed to assess our ability to detect these correlations. Since volume of distribution is determined by infusion rate once equilibrium is achieved (within the first 24-48 hours), we do not expect to see a difference in overall volume of distribution at the end of each pulse. We will verify the lack of change with a t-test analysis.

Protocol Schema:



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1. INTRODUCTION

This document is a protocol for a human research study. This study is to be conducted according to U.S. and international standards of Good Clinical Practice (FDA Title 21 part 312 and International Conference on Harmonization guidelines), applicable government regulations, and Columbia University Medical Center institutional research policies and procedures.

2. STUDY OBJECTIVES

2.1 Primary Objective

The primary goal of this study is to establish, for the first time, safety of prolonged intracerebral convection enhanced delivery of chemotherapy in patients with recurrent high grade glioma (WHO grade III-IV).

2.2 Secondary Objective

Secondary objectives will include determination of TPT distribution and radiographic tumor response with prolonged intracerebral CED.

3. BACKGROUND

Malignant gliomas are among the most pernicious of human tumors. They are locally invasive and universally recurrent, with recurrence usually occurring within two centimeters of the original resection cavity. Although numerous chemotherapeutic drugs demonstrate significant anti-tumor activity in preclinical studies, their efficacy in clinical trials has been dismal because systemic delivery fails to achieve therapeutic drug levels in tumor cells due to various factors including limited blood-brain barrier permeability and systemic toxicity. Convection-enhanced delivery (CED) is a method of regional drug delivery that circumvents this problem. We have shown in a phase 1 clinical trial that a potent topoisomerase inhibitor, topotecan (TPT), can be safely and effectively delivered by CED into patients with recurrent malignant gliomas[1]. Our current proposal will expand on these clinical results to address two current limitations to the clinical application of CED: 1) A reliable method for non-invasively monitoring drug distribution throughout the tumor and brain does not exist; and 2) Duration of CED therapy has been limited to short-term infusions secondary to the use of externalized infusion pumps. We hypothesize that extended chronic pulsatile local-regional delivery of TPT is safe, effective and feasible in patients with recurrent gliomas. To test this hypothesis, we will optimize the ability to chronically deliver TPT directly into the tumor and surrounding brain by CED through subcutaneously implanted pumps while innovating a methodology for monitoring the drug distribution through non-invasive imaging. This strategy will overcome the limitations of chemotherapy as currently used in the treatment of gliomas, and may be applicable to other CNS diseases currently limited by drug delivery barriers.

The aim of this study is to implement chronic pulsatile CED of TPT in patients with recurrent high

grade glioma (HGG) (WHO grade III-IV) and characterize the drug's distribution using an innovative, non-invasive methodology for measuring intracerebral distribution of TPT.

Hypothesis: TPT can be safely, effectively and chronically infused into recurrent HGG patients via intracerebral CED, and drug distribution can be accurately measured non-invasively. The chronic CED and non-invasive imaging methodology developed in our pig model[2] will require validation in recurrent HGG patients where a significantly more complex experimental environment exists. Patients with recurrent HGGs will undergo implantation of CED catheters and subcutaneously implanted pumps through which 4 cycles of TPT/gadolinium CED will be administered. These cycles will include 48 hours of active drug infusion followed by 5-7 days of drug holiday. Following the four cycles, catheters and pumps will be removed, and tumors will be resected. Tumoral and parenchymal distribution of gadolinium measured through MRI will be correlated with TPT levels measured by mass spectrophotometry of tissue samples obtained upon tumor resection. Cytotoxic response to TPT will be investigated by histological comparison of tissue samples taken at resection versus initial biopsy and by MRI.

At the conclusion of these studies, the expected outcome will be a novel, measurable strategy to treat recurrent HGG patients with chronically delivered high doses of TPT directly into their tumors, thereby avoid the limitations imposed by conventional systemic delivery. On a broader level, we will have demonstrated, for the first time in humans, the ability to chronically achieve a local-regional distribution of a drug directly into the brain parenchyma.

4. INVESTIGATIONAL AGENT

Topotecan (TPT)

Our choice of TPT for this study is based on a preponderance of animal and human data demonstrating its safety and efficacy with CED[2-5]. Because of the inherent advantage of CED over systemic delivery, many different drugs could be successfully substituted for TPT in this proposal. However, TPT is the ideal candidate because it has been validated in clinical trials[3], shown to be the most effective drug compared to over 20 other drugs in our rat glioma model[4, 6-8], and is easily measurable in tumor and brain tissue [4]. TPT, a camptothecin analog inhibitor of topoisomerase 1, is suitable for the treatment of malignant brain tumors as it is cytotoxic to proliferating glioma cells but remains relatively innocuous to normal brain where topoisomerase levels are low[4]. Although TPT had potent anti-neoplastic effects in preclinical models of glioma, it failed to show appreciable effects in glioma patients when delivered systemically [9]. However, CED of TPT proved to be safe and showed surprising efficacy in our recent phase 1 trial indicating that more effective therapy is possible when limitations to systemic delivery are overcome[3]. In this phase 1 study, TPT was administered through an externalized catheter and external micro infusion pump. As such, the treatment period was limited to four days to minimize hospital time and the risk of infection in this externalized system. However, a compelling rationale for pursuing chronic CED of TPT in clinical trials was provided by our rat glioma studies that demonstrated increased survival when TPT was delivered for longer periods of time[5]. Based on these studies, we hypothesized that prolonged CED of TPT would enhance its therapeutic effect in patients with malignant gliomas.

The infusate will consist of gadolinium plus TPT (146 uM) with the TPT dosage based on the results of our phase I clinical trial where a maximum tolerated dose of 218uM was established after 4 days of treatment[3]. Our choice of 146 uM is the next lower level tested in the phase I trial. Although no toxicity was seen at 218 uM, a lower dose is desirable to decrease the likelihood of toxicity during longer infusion durations.

Although we hope to gain information on the efficacy of this drug in treating malignant brain tumors, there may or may not be benefit from taking part in this study.

The tumors being studied are highly malignant and rapidly fatal. The major risks of this therapy are the direct effects of the topotecan and the infusion technique which may exacerbate increased intracranial pressure. These risks have been well-tolerated in preclinical animal and phase I human studies. The monitoring strategy outlined in the protocol is designed to minimize complications associated with these risks. There are no proven alternative therapies for patients with recurrent HGG who have failed radiation and temozolomide chemotherapy.

4.1 Preclinical Data

In the previous phase 1 study, TPT was administered through an externalized catheters and external microinfusion pumps, and the treatment period was limited to four days to minimize hospital time and the risk of infection in this externalized system. However, preclinical rat glioma studies have demonstrated increased survival when TPT was delivered for longer periods of time[5]. This finding provides a compelling rationale for pursuing chronic exposure to TPT CED in clinical trial. This finding likely relates to topotecan's mechanism of action, which is cell cycle dependent. Thus, when cells are exposed to topotecan at multiple time points, more cells will have likely passed through the appropriate phase of the cycle for topotecan to take action. We hypothesize that prolonged duration of TPT CED will enhance its therapeutic effect in malignant glioma patients. We have evaluated the feasibility of short term and prolonged TPT administration by CED in a large porcine animal model by using a subcutaneous implantable pump, the same pump that will be used for the current study. 136 uM TPT with gadodiamide (28.7 mg/mL) were first administered for either 3 day or 10 days using the Medtronic Synchromed-II pumps[2]. In another set of preclinical porcine experiments, similar infusions were administered for between 3-32 days (see study report). Pigs underwent MRI imaging at various time points throughout the treatment period. Areas of enhancement were analyzed and volumes of distribution (Vd) were calculated. CED of TPT/gadolinium was well tolerated for the 3 day, 10 day, and the 32 day infusions. No animals showed evidence of significant neurological deficit or systemic toxicity throughout either the short-term or long-term infusions. In the long-term infusions, maximum enhancement volume was typically reached by day three or four, with the largest gains in volume of distribution occurring within the first 48 hours of infusion (see study report). Furthermore, the volume of distribution reached a plateau at a medium volume of infusion of 14.25 mL during the 10-day course. During 32 day infusions, volume of distribution declined from max distribution as steady state was achieved. In these long-term infusions, anticipated local MRI signal change was seen at the catheter tip likely representing local tissue changes in response to infusion. Again, such radiographic changes were not associated with neurological deficit or evidence of toxicity.

The study investigators recognize that the tissue properties of normal pig brains are not

necessarily completely representative of human high grade glioma tissue. Due to tumor hypercellularity and peritumoral edema, it is possible that tumor tissue in these patients is less compliant than normal brain tissue. Such a decrease in compliance has the potential to affect the delivery of drugs via convection, as it will subject the catheter tip and infusion system to variable pressures. This difference in compliance may represent a distinct change from the type of tissue compliance that was encountered in preclinical porcine studies. Yet, this difference does not pose a problem for this study. In fact, one of the aims of this study is specifically to understand the nature of CED flow dynamics in the context of a variably complaint brain tumor. Given the fact that high grade gliomas are heterogeneous tumors with areas of variable cellularity, drugs delivered via CED are likely to flow down the path of least resistance out of the tumor and into peritumoral white matter tracts. Such tendency for CED to flow down white matter tracts is suggested by our preclinical porcine work described above, as these tracts represent the paths of least resistance to flow. In clinical application, drug will, thus, be able to reach diffusely infiltrative tumor cells in more normal, and likely more compliant white matter. These diffusely infiltrative cells are the ones that are typically left behind in brain tumor resection and account for tumor recurrence. As such, these cells are specifically the target of CED therapy. Since our protocol includes serial MRI throughout the infusion, the assessment of CED dynamics and likely proclivity of CED fluids to follow white matter tracts can thus be assessed.

4.2 Clinical Data to Date

We have previously performed a phase 1b, open label, nonrandomized, dose escalation study employing CED of TPT in patients with recurrent WHO grade III anaplastic astrocytoma or glioblastoma[1]. CED was performed for 100 hours using a Medfusion 2010 external syringe pump. This phase 1b study had the following enrollment and study results:

Total Enrollment	18
Total Completed Treatment	
Patients Still Active on Treatment	0
Patients Completed Treatment Still in Long-term Follow-up	
Completed Protocol Follow-up	17
Withdrew Consent Prior to Completing Follow-up	
Termination associated with an adverse experience	0

Of the 18 adult patients studied, 1 remains alive at 347 weeks post-treatment, but has withdrawn consent and is no longer in follow-up, as of March 11, 2015. Survival ranged from 13 to 524 weeks with a median overall survival of 60 weeks. Progression-free survival ranged from 4 to 347 weeks with median progression-free survival of 23 weeks. The 6-month progression-free survival and 6-month overall survival were 44% and 75%, respectively. 6-month progression-free survival in the group of patients with GBM was 55%. One patient, due to his unrelated death not long after his treatment (see below), was not evaluable for treatment response, and was censored from future analyses. The serum concentrations of active and inactive forms of TPT were undetectable

(<0.5ng/mL) at all time points in all patients. At 1 week after infusion 1 patient had grade 1 leukopenia, and 1 patient had grade 2 thrombocytopenia, both of which resolved by week 2 with no adverse sequelae. There were two dose limiting toxicities (DLT) seen at the highest dose (0.133mg/mL), The first patient experienced a dose limiting toxicity (DLT) manifested by a right parietal syndrome with dysmetria and hemineglect. Treatment was terminated after 3.53 mg of infusion, and symptoms partially improved. This patient also suffered DVT, which was deemed unrelated to topotecan infusion. Another patient treated with the highest TPT concentration developed a transient DLT consisting of left upper extremity weakness, which resolved spontaneously. A patient with history of systemic chemotherapy, bone marrow transplant, and seizure disorder was readmitted 7 weeks after infusion with worsening of seizure disorder and severe metabolic disarray. This patient ultimately suffered cardiac arrest and died; autopsy was notable for aspergillus pneumonitis. This mortality was thus deemed unlikely to be related to the local topotecan therapy. In addition to the above severe events, seizure, headache, fatigue, or worsening hemiparesis each occurred in 5 patients (31%). GI symptoms or back/extremity pain were both seen in 4 patients (25%). 3 patients (19%) experienced either DVT, pneumonia, aphasia, memory impairment/confusion, or urinary symptoms. Right hand dyscoordination, poor wound healing, thrombocytopenia/leukopenia, dizziness, or anxiety/depression were each seen in 2 patients (13%). ICH (intratumoral hemorrhage > 1 month following infusion), dry gangrene, upper extremity weakness, right parietal syndrome, tremor, rash, thrush, or sinusitis were each seen in individual patients (6%). The Average Karnofsky performance score before treatment was 84 and after treatment was 83. Except for the 2 patients experiencing DLTs, all patients remained ambulatory following infusion. No significant changes were seen in Cognitive Stability Index or the Physical or Mental Quality of Life assessments. Thus, all quality of life and neurocognitive testing verified the safety and tolerability of the treatment. Overall, this study suggested that TPT by CED has antitumor activity at concentrations that are non-toxic to the normal brain.

4.3 Other Agent(s) Gadolinium (gado)

Prior work has established the utility of using diffusion-weighted MRI[10, 11], T2-weighted MRI[12] and dynamic-contrast enhanced MRI[13] among other modalities to determine the intraparenchymal volume of distribution (Vd) of drugs administered via CED. Intracerebral co-infusion of gadolinium with therapeutic compounds via CED is a delivery paradigm that offers real-time assessment of the volume of drug distribution. Additionally, co-infusion of gadolinium contrast is significantly less complex to implement than other direct imaging tracer-drug labeling strategies, such as liposomes or radio-labeled compounds. The technical and economic complexities of these other imaging approaches create significant limitations in human multicenter clinical trials involving numerous patients. Gadolinium is a widely available MRI contrast agent that is used routinely in clinical practice via IV administration, especially for imaging of intracranial tumors. In addition, to IV administration, there have been investigational of use of gadolinium in intraparenchymal convection enhanced delivery. The volume of distribution of gadolinium can be easily visualized and quantified on T1 weighted MRI, and several studies[10, 14-18], including both animal and human trials[2, 5, 17-22] have shown that intracerebral infusion of gadolinium compounds are safe and well tolerated. Pre-clinical animal studies have

demonstrated that gadolinium is safe in long-term chronic co-infusion up to 6 weeks[14, 15]. In our previous long-term CED in porcine models, gadolinium was utilized without toxicity issues [2], including in infusions of up to 32 days. Gadolinium has thus been employed in many previous CED studies with promising results, and can be safely used in this study.

The interactions between topotecan and gadolinium have been evaluated, and no concerning interactions have been identified. During our porcine trial, gadolinium was included in all infusions. Characteristic hyperintense T1 gadolinium signal was appreciated on all MRIs performed, suggesting that gadolinium's imaging properties are retained despite presence of topotecan. MTS assays were performed on human U87 glioma cell lines in which cytotoxic efficacy of 146uM topotecan both with and without 1:100 gadolinium were assessed. In comparison to nutrient rich media without drug, both the TPT-alone and TPT-gadolinium treated cells demonstrated a statistically significant reduction in glioma cell density (p<0.01 for both). However, no difference in cytotoxicity was seen when the TPT-alone and TPT-gadolinium treated cells were compared (p = 0.48; see study report). TPT, therefore, retains its anti-tumoral activity at 48 hours despite the presence of gadolinium.

Implanted pumps:

Synchromed II:

- PMA/510(k) number: P860004
 Model Number: Model 8637-20
- 3) Indication for Use
 - a. Approved: "Chronic intraspinal (epidural and intrathecal) infusion of preservative-free morphine sulfate sterile solution in the treatment of chronic intractable pain, chronic intrathecal infusion of preservative-free ziconotide sterile solution for the management of severe chronic pain, and chronic intrathecal infusion of Lioresal® Intrathecal (baclofen injection) for the management of severe spasticity; chronic intravascular infusion of floxuridine (FUDR) or methotrexate for the treatment of primary or metastatic cancer. Outside of US: Chronic infusion of drugs or fluids tested as compatible and listed in the product labeling."[23]
 - b. **Proposed:** Chronic intracerebral infusion of topotecan-gadolinium for patients with recurrent high grade glioma.
- 4) Administration routes/drugs
 - a. Approved:
 - i. **Drugs:** Morphine sulfate, Baclofen, Ziconotide, Floxuridine, Methotrexate
 - ii. Routes: Epidural, Intrathecal, Intravascular
 - b. Proposed:
 - i. Drugs: Topotecan, gadolinium
 - ii. Route: Intracerebral (intratumoral)
- 5) Critical Performance Attributes
 - i. Approved: Flow rates: 0.048mL/day-24mL/day

- ii. Proposed: Flow rates: 0.048mL/day & 4.8mL/day
- 6) Accessories (software programmer, catheters, tubing, etc.)
 - **a.** Catheters: Ascenda intrathecal catheter (models 8780, 8781), Intrathecal catheter (8731SC)
 - **b. Progammers: Synchromed II Tablet Clinician Programmer,** N'Vision Clinician Programmer (model 8840), myPTM Personal Therapy Manager (model 8835)

Synchromed II infusion pumps (Medtronic), currently FDA-approved for the treatment of spasticity and chronic pain, will be implanted subcutaneously to facilitate chronic infusion. This application of the Synchromed pump to human CED represents an off label use of this device. While the primary goal of our study is to evaluate safety and tolerability of prolonged convection enhanced delivery of topotecan, such chronic pulsatile infusion is not feasible by using conventional externalized pumps. Firstly, prolonged four week infusions via externalized pumps would require inpatient hospitalization in an ICU setting for all days prior to tumor resection in addition to standard postoperative inpatient hospital stay. Such a prolonged hospitalization would predispose patients to multiple nosocomial and iatrogenic complications including, but not limited to, deep vein thrombosis, pulmonary embolism, ICU delirium, pneumonia, clostridium difficile infections, decubitus ulcers, and general deconditioning. Secondly, prolonged duration of externally implanted intracerebral catheters predisposes patients to ventriculitis. Such a relationship between time of catheter implantation and risk of infection has been demonstrated in previous trials evaluating ventriculitis in patient with external ventricular drains[24]. As a result of these limitations, this study will require an alternative route of CED. To this end, a fully internalized sterile infusion system would allow the extension of CED from days to weeks, and will ultimately provide the rationale and feasibility for prolonged CED in the outpatient setting. We have previously tested the safety and feasibility of implanted infusion systems for CED in a pig model[2] without any pump-related complications. In our long-term infusion trial in which pigs were infused for up to 32-day, there were never any issues relating to prolonged pump stalls or battery failures despite repeated MRIs. There were no issues relating to pump site infections, pump refill complications, or catheter disconnection at the pump site (see study report).

Notably, with respect to pump function, the tissue characteristics of high grade gliomas must be taken into account. High grade glioma tissue properties are distinct from those of normal human brain. Due to tumor hypercellularity and peritumoral edema, it is possible that tumor tissue in these patients is less compliant than normal brain tissue. Such a decrease in compliance has the potential to affect the delivery of drugs via convection, as it will subject the catheter tip and infusion system to variable pressures. This difference in compliance may represent a distinct change from the type of tissue compliance that was encountered in preclinical porcine studies. Yet, this difference does not pose a problem for this study. In fact, one of the aims of this study is specifically to understand the nature of CED flow dynamics in the context of a variably complaint brain tumor. Given the fact that high grade gliomas are heterogeneous tumors with areas of variable cellularity, drugs delivered via CED are likely to flow down the path of least resistance out of the tumor and into peritumoral white matter tracts. Such tendency for CED to flow down white matter tracts is suggested by our preclinical porcine work, as these tracts represent the paths of least resistance to flow. In clinical application, drug will, thus, be able to

reach diffusely infiltrative tumor cells in more normal, and likely more compliant white matter. These diffusely infiltrative cells are the ones that are typically left behind in brain tumor resection and account for tumor recurrence. As such, these cells are specifically the target of CED therapy. Since our protocol includes serial MRI throughout the infusion, the assessment of CED dynamics and likely proclivity of CED fluids to follow white matter tracts can thus be assessed.

It is possible that in cases of extreme brain non-compliance, there will be obstruction to drug delivery through the catheter. This situation is unlikely as even elevated intracerebral pressures are relatively low. But, if pressures did become high enough to occlude the infusion system, this event would serve as a fail-safe, preventing excess fluid from entering the noncompliant brain. Since patients will be monitored continuously throughout active infusions, any clinical sign of increase ICP will be acted on immediately by urgent discontinuation of drug infusion, use of steroids, hypertonics, mannitol, and possible surgical intervention if necessary.

5. STUDY DESIGN

5.1 General:

Allocation: Non-randomized

Endpoint Classification: Safety/Efficacy Study Intervention Model: Parallel Assignment

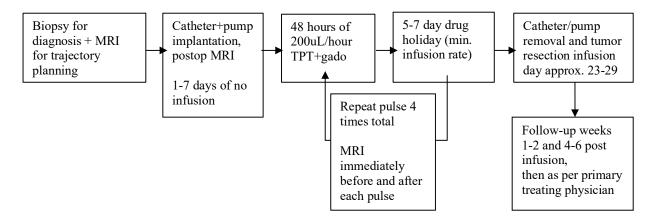
Masking: Open Label Primary Purpose: Treatment

5.2 Primary Study Endpoints:

The primary endpoint of this study is assessment of safety of chronic pulsatile intracerebral topotecan infusion. Safety will be assessed by evaluation of physical and neurologic examinations, laboratory studies, radiographic studies, and by adverse events. An adverse event is any new or worsening symptom or clinical finding which occurs during the study period (see section 10). Adverse events are to be recorded irrespective of causality, on the adverse events form. Each event will be described by its severity (mild, moderate, severe, life-threatening), duration, and relation to study medication (unrelated, unlikely, possible, probable, definite). Additional secondary endpoints that will be assessed are steady state volume of drug distribution as measured on volumetric MRI, correlation of intraparenchymal TPT concentration with contrast enhancement intensity on MRI, as well as time to tumor progression/recurrence, and time to death.

5.3 <u>Design</u>

This is a **phase Ib** open label non-randomized trial. See schema below. All times indicated are optimal but should be considered approximate.



For effective clinical translation, the correlations between drug distribution and non-invasive imaging established in a pig model must be validated in humans with GBM[2]. Although drug infusions into normal pig brain serve as a convenient model for establishing these correlations, they must be re-calibrated in the significantly more complex intracerebral environment of patients with HGG. A series of 5 patients with recurrent HGGs will be recruited for a study in which TPT and gado will be co-delivered by CED via an implanted pump-catheter system in a pulsatile fashion prior to surgical resection about four weeks later. The infusate consists of gadolinium (approx. 1:100) plus TPT (146 uM). Active infusion will be initiated on post-operative day 1-7 at the discretion of the attending neurosurgeon to allow time for expected and routine recovery from surgery. The patients will then undergo four 48-hour pulses of therapy interspersed by several day therapy holidays. Notably, gadolinium will only be included in the CED infusion during the first and fourth pulses of therapy; during the second and third pulses, topotecan will be infused alone.

In each pulse cycle, patients will receive 200uL/hr of 146uM topotecan for 48 hours (daily volume = 4.8 mL; total volume = 9.6 mL) followed by between five to seven days of therapy holiday during which the pumps will be set at the minimum programmable rate (2uL/hr; 5-7 day volume = 0.24-0.34mL). This cycle will be repeated two more times. After three complete cycles, patients will receive a fourth and final pulse at the same infusion rate (200uL/hr for 48 hours). After this fourth dose, patients will be taken to the OR for pump removal and tumor resection as described. As such, once infusions are initiated, they will be carried out over a total of approximately 23-29 days. Four 48-hour infusion pulses at 200uL/hr will be administered for a total volume infused of 38.4mL. When accounting for the near negligible volume delivered while the pump is placed at minimum performance rate (0.048mL/day for 15-28 days), a combined total volume of 39.12-39.41mL will be infused. Rationale for 48-hour pulsatile infusion is derived from preclinical porcine studies demonstrating that the largest relative gains in volume of distribution of infusate occur within the first 24-48 hours, which subsequently decline as infusions reach a steady state. Similarly, the total volume of infusion and dose concentration is based on our previous clinical trial in which 40mL of drug was infused and an MTD of 218uM TPT was defined. Additionally, the reason for including possible variability in the length of each infusion holiday (5-7 days) is that it will allow investigators to ensure that all surgical procedures, including pump removals, tumor

resections, pump refills, as well as infusion initiations occur during weekdays when all staff members and support personnel are available to provide appropriate safety monitoring.

Tumor and parenchymal distribution and concentration of TPT will be investigated by MRI using gado as a surrogate tracer as well as mass spectrophotometric measurement from the tumor samples obtained at the time of tumor resection. A preoperative MRI will be performed to optimize catheter trajectory selection to ensure optimal CED and tumor coverage. Patients will undergo stereotactic biopsies of the tumor. Intraoperative histopathologic assessment of localized tumor biopsies will be performed to verify the diagnosis and distinguish active tumor from radiation necrosis prior to catheter/pump placement and infusion. These specimens taken at the time of catheter placement will also be used for secondary more comprehensive diagnostic immunohistopathologic and/or molecular analysis as well as for comparison to post treatment specimens.

As secondary objectives, tumor response to TPT will be investigated by MRI and by comparing signs of cytotoxicity between tissue samples from resection and initial biopsy obtained at study initiation. MRIs will be obtained on postoperative day 0 or 1 following catheter implantation prior infusion initiation to confirm catheter placement. For the first infusion, MRIs will then be performed around 8 hours, 14 hours, 24hours and 48 hours after the infusion is started, and then around 8 hours, 14 hours and 24 hours after completion of first infusion. For the remaining three two-day pulses of chemotherapy, MRIs will be performed just before and at 48 hours after start of each infusion. Catheters will be removed upon termination of the final 48-hour infusion pulse at which time patients will undergo surgical resection of the tumor and removal of catheters.

At the time of tumor resection, MRI-directed stereotactic biopsies from different areas within the volume of gado distribution and outside the volume (in areas of non-eloquent brain tissue) will be used to collect specimens for TPT concentration measurements at strategic distances from the catheter tip. Tumor and peritumoral brain tissue removed as part of the surgical resection will be collected for TPT and gadolinium measurements, as well as histological and immunohistochemical analysis of treatment effects, including apoptosis, necrosis, reactive gliosis, inflammation, and edema. These studies will validate the noninvasive parameters established in the pig model.

Patients will remain in the hospital during each two-day infusion, after which discharge safety will be assessed by the PI. At each visit they will undergo a full neurological and physical examination.

The implanted pumps are designed to be refilled percutaneously and will be refilled prior to each new 48-hour pulse. MRIs will be obtained on postoperative day 0 or 1 following catheter implantation prior infusion initiation to confirm catheter placement. For the first infusion, MRIs will then be performed around 8 hours, 14 hours, 24hours and 48 hours after the infusion is started, and then around 8 hours, 14 hours and 24 hours after completion of first infusion. For the remaining three two-day pulses of chemotherapy, MRIs will be performed just before and at 48 hours after start of each infusion. To account for the potential presence of intraparenchymal gadolinium, which would obscure intravenously administered contrast, IV contrast-enhanced MRI (and corresponding perfusion data) will not be performed during the first and fourth 48-hour infusion pulses. Since gadolinium is removed into brain capillaries and undergoes rapid renal

excretion with a blood concentration half-life between 20-70 min[25], we do not expect significant retention of CED gadolinium within the brain parenchyma when IV contrast-enhanced MR imaging occurs during the second and third dose pulses.

The primary goal of the study is to establish, for the first time, the safety of long-term pulsatile topotecan convection enhanced delivery via an implanted system in high grade glioma patients. Secondary outcomes will include determination of the TPT distribution and radiographic tumor response with prolonged CED. After four cycles of infusion, patients will undergo surgical resection of the tumor. At the time of tumor resection, MRI-directed stereotactic biopsies from sites within the gadolinium volume and sites outside (as in the above short-term studies) will be collected for TPT concentration measurements. Tumor and peritumoral brain tissue removed as part of the surgical resection will be collected for histological analysis of treatment effects.

In these initial human studies with CED, it is critical that the patient population be as uniform as possible. Although it will be desirable to expand this treatment to all HGG patients in the future, the purpose of these studies is to generate sufficient monitoring and toxicity data to advance the delivery methodology. Therefore, the study cohort will be carefully selected to consist of patients with minimal tumor resection cavities whose tumors are small and spherical. This selected population represents a very small percentage of patients with recurrent malignant gliomas. We have shown through our previous phase 1 trial that we can recruit this select type of patient who is optimal for CED since our institution treats a high volume of HGG patients.

Patients will return as outpatients for follow-up evaluation at one-two and four-five weeks post infusion termination unless there is clinical or radiographic indication for more frequent monitoring. At these visits, patients will undergo a physical/neurologic examination, neuropsychological evaluations. During the four-five week visit, a brain MRI will be performed to determine tumor response. Further outpatient follow-up will be determined by the patient's primary treating physician in accordance with standard of care. Patients will be contacted every 3-6 months by phone until death in order to assess survival data.

5.4 Study Drug Dose

5.4.1 Starting Dose

Concentration

Pulses 1, 2, 3 and 4 will be prepared with 146uM topotecan. This will not be modified at any time.

Pulses 1 and 4 will be prepared with topotecan AND gadolinium at approximately 1:100 concentration ratio to topotecan. This concentration will not be modified at any time.

Rate

Active pulse rate: The starting rate will be approximately 200 microliters/hour. Active pulse rate may be modified per section 5.4.2.

Resting rate: The resting pulse rate to be used will be approximately 2 microliters/hour

<u>Study Drug Administration Duration:</u> The duration of each pulse will be approximately 48 hours. This may be modified per section 5.4.2.

Resting Phase Duration: The duration of each resting period will be 5-7 days. This may be modified per section 5.4.2.

5.4.2 Dose Modifications and Delays

If at any time the principal investigator determines that the dose must be modified for patient safety they may make the following modifications: decrease active pulse rate, decrease active pulse duration, increase or decrease resting duration between active pulses to less than 5 or greater than 7 days. Implementation, effective duration of any of the listed modifications remains at the discretion of the principal investigator. If an implemented dose modification is no longer deemed necessary and the principal investigator determines that it is in the patient's best interest to proceed with study therapy for maximal therapeutic benefit, the next scheduled pulse should be administered and may be re-increased in rate or duration as tolerated. Increased variability in the length of each infusion holiday is meant to allow investigators to ensure that all surgical procedures, including pump removals, tumor resections, pump refills, as well as infusion initiations are not compromised by scheduling conflicts such as weekends, holidays, operative room availability when staff members and support personnel are available. Additional modifications to timing of doses and dose decreases may be performed at the discretion of the PI.

5.5 <u>Dose Limiting Toxicities</u>

Dose limiting toxicities will be defined as any new (or increased from baseline) treatment related (drug and/or device), neurological deficits as found on neurological examination which are grade 3 or higher. These deficits include but are not limited to changes in level of consciousness, new onset speech difficulties (aphasia, mutism, dysarthria), confusion, visual field deficits, focal weakness, seizures.

Furthermore, DLT will include severe myelotoxicity defined as grade 4 thrombocytopenia, anemia, or neutropenia lasting at least 1 week using the current active version of the NCI CTCAE, he/she will be removed from study. However, systemic effects are thought to be minimal due to the small amount of drug expected to enter the systemic circulation.

Notably, maximum tolerated doses were established in a separate phase I trial of CED with topotecan. Toxicity of topotecan was not seen at concentrations of ≤0.10mg/ml, which established the maximum tolerated dose (MTD). Neurologic dose limiting toxicities (DLTs) occurred in two patients at the highest administered dose (level V, 0.133 mg/ml), including a parietal lobe syndrome and left upper-extremity weakness. Similar total volumes of drug infusion will also be used as in the prior study. During the previous human trial, two catheters infusing at a rate of

200uL/hr were placed in each patient, and infusions were continued for 100 hours, for a total infusion volume of 40mL.

In this trial, four approximately 48-hour infusion pulses at approximately 200uL/hr will be administered through one catheter for a volume of approximately 38.4mL. When accounting for the near negligible volume delivered while the pump is placed at minimum performance rate (0.048mL/day for 15-28 days), a combined total of approximately 39.12-39.41mL will be infused. During the previous human trial, two catheters infusing at a rate of 200uL/hr were placed in each patient, and infusions were continued for 100 hours, for a total infusion volume of 40mL[1]. In this trial, a MTD of 218uM was defined. Thus, patients tolerated both a higher total dose and similar volume infused as in the currently proposed trial.

Early Stopping Rule guidelines:

In the event 2 DLT's occur (as defined above), study enrollment will immediately be halted. After re-evaluation and consultation with the HICCC DSMC board, the trial may re-initiate enrollment with adjusted treatment parameters after a consensus is agreed upon by the Sponsor-Investigator and the HICCC DSMC, and a subsequent modification is reviewed/approved by the local PRMC/IRB. If a consensus cannot be reached, no further enrollment will be permitted on the trial and closure procedures will be initiated.

5.6 Number of Patients

Five evaluable patients with recurrent HGG will be recruited for infusion of TPT and gadolinium by pulsatile CED over approximately 23-29 days, followed by surgical resection of the tumor.

Since recurrent glioma and radiation necrosis are difficult to distinguish on imaging, several patients meeting enrollment criteria may not meet treatment criteria. As such, initial enrollment numbers may have to exceed treatment numbers to ensure that 5 patients enter the treatment study. Based on rates of radiation necrosis, which are roughly 10% of reoperations[26], we will cap enrollment at 10 patients (barring any early stopping rule concerns as indicated in section 5.5 above). Enrollment will stop when 5 evaluable patients have been obtained (barring any early stopping rule implementation as outlined above). Thus, we will have an initial enrollment of 10 patients, and a maximum of 5 evaluable patients that undergo catheter implantation and complete topotecan infusion. Furthermore, if patients who have catheters placed and infusion initiated fail to complete the full course of infusion due to reasons unrelated to treatment related toxicity, they will be considered inevaluable for the primary endpoint (but evaluable for toxicity), as the primary study endpoint is assessment of infusion safety over a full four cycles of infusion lasting between approximately 23-29 days. If a patient's infusion is terminated early for reasons unrelated to treatment toxicity/DLTs, then a new subject will be recruited to replace him/her to ensure a total of 5 evaluable subjects at the completion of the study. If patients are removed from the study as a result of failure to follow up with pre-defined safety follow-up evaluations, they will also be considered inevaluable, as assessment of infusion safety will not be ascertainable in such patients. As above, such inevaluable patients will be replaced with newly recruited and enrolled evaluable patients.

6. SUBJECT SELECTION AND WITHDRAWAL

6.1 <u>Inclusion Criteria/Eligibility Requirements</u>

- 1. Patients must have suspected recurrent malignant glioma (WHO grade III-IV), including recurrent glioblastoma, anaplastic astrocytoma, anaplastic oligodendroglioma, anaplastic oligoastrocytoma, and anaplastic ependymoma. Stereotactic biopsies will be performed to confirm the presence of active tumor by frozen section prior to initiating the treatment.
- 2. Patients with tumors of the brain must have been previously treated with surgical resection, temozolomide chemotherapy, and external beam radiation. Other additional treatments are permitted without limitation.

Note: Patients with tumors that are unmethylated are not required to have been treated with temozolomide chemotherapy, as current SOC and clinical trial treatment for patients with unmethylated tumors may exclude temozolomide chemotherapy.

- 3. An MR scan must be obtained within 30 days of enrollment and must demonstrate an enhancing mass without significant mass effect. Tumors must be less than approximately 32 cc in total volume, as assessed by the PI based on pre-enrollment MRI. The lesion must be stereotactically accessible.
- 4. Patients must have demonstrated evidence of increasing contrast enhancement on MR or CT imaging while on stable or increasing dose of steroid.
- 5. Karnofsky performance score of greater than or equal to 70.
- 6. Men and women of childbearing potential must practice birth control. Women of child bearing potential must have a urine pregnancy test within 7 days of study entry. In accordance with topotecan administration guidelines, women must practice birth control for at least 1 month following chemotherapy infusion. Men must practice birth control for at least four months following termination of chemotherapy infusion.
- 7. Patients or appropriate legally authorized representatives must possess the ability to give Informed Consent.
- 8. Patients must be willing to and medically capable of undergoing the surgical operation.
- 9. Patients must be at least 18 years old.
- 10. Patients must have normal organ and marrow function as defined below 14 days or fewer from registration:

Leukocytes: ≥3,000/mcL
 Absolute neutrophil count: ≥1,500/mcL
 Platelets: ≥100,000/mcL

- Total bilirubin: within normal institutional limits

- AST(SGOT)/ALT(SGPT): $\leq 2.5 \times \text{institutional upper limit of normal}$

- Creatinine: within normal institutional limits

OR

- Creatinine clearance: $\geq 60 \text{ mL/min}/1.73 \text{ m}^2 \text{ for patients with creatinine}$

levels above institutional normal.

The effects of Topotecan on the developing human fetus are unknown. For this reason and because category D agents are known to be teratogenic, women of child-bearing potential and men must agree to use adequate contraception (hormonal or barrier method of birth control; abstinence) prior

to study entry and for at least one month following topotecan infusion. Should a woman become pregnant or suspect she is pregnant while she or her partner is participating in this study, she should inform her treating physician immediately. Men treated or enrolled on this protocol must also agree to use adequate contraception prior to the study, for the duration of study participation, and 4 months after completion of Topotecan administration as topotecan may damage spermatozoa resulting in possible genetic and fetal abnormalities. These recommendations regarding men and women of child bearing age are based on the package insert for systemic administration of topotecan.

6.2 Exclusion Criteria

- 1. Patients with diffuse subependymal or CSF disease.
- 2. Patients with tumors involving the cerebellum or both cerebral hemispheres.
- 3. Patients with an active infection requiring treatment or having an unexplained febrile illness.
- 4. Patients who are known HIV, Hepatitis B or Hepatitis C positive. HIV-positive patients on combination antiretroviral therapy are ineligible because of the potential for pharmacokinetic interactions with topotecan. In addition, these patients are at increased risk of lethal infections when treated with marrow-suppressive therapy. Appropriate studies will be undertaken in patients receiving combination antiretroviral therapy when indicated. HIV, Hepatitis B and Hepatitis C testing is not required for patients not known to have those infections.
- 5. Patients with systemic diseases which may be associated with unacceptable anesthetic/operative risk
- 6. Patients who have previously received systemic topotecan for their tumor.
- 7. Patients who are not able to receive MRI or PET scans.
- 8. History of allergic reactions attributed to compounds of similar chemical or biologic composition to topotecan, other topoisomerase inhibitors or gadolinium compounds.
- 9. Patients who are currently receiving treatment with agents that are metabolized solely through cytochrome P450 (CYP) 3A4/5 (CYP3A4/5) and have a narrow therapeutic index or are strong CYP2C8 inhibitors; or are receiving treatment with agents that carry a risk for QT prolongation and are CYP3A substrates. Caution should be used in patients taking other CYP2C8 or CYP3A4/5-interacting agents as they may increase the serum concentrations of topotecan. If previously on such agents, the patient must be off of it for at least two weeks prior to study treatment.
- 10. Patients with uncontrolled intercurrent illness including, but not limited to, ongoing active infection, systemic congestive heart failure, unstable angina pectoris, cardiac arrhythmia, or psychiatric illness/social situations that would limited compliance with study requirements.
- 11. Women of child-bearing potential must have a negative pregnancy test 7 or fewer days from registration.
- 12. Women must agree not to breast feed while on study.

6.3 Inclusion of Women and Minorities

Both men and women of all races and ethnic groups are eligible for this trial.

6.4 Subject Recruitment

Patients will be recruited from the Neurology and Neurosurgery practices/clinics at Columbia University Medical Center. All patients will be seen by an attending physician who is an

investigator on the trial.

6.5 Early Withdrawal of Subjects

6.5.1 When and How to Withdraw Subjects

- If the patient's initial stereotactic biopsy is not consistent with recurrent high grade glioma, he/she will be deemed inevaluable and removed from the study **and replaced**. He/she will not undergo catheter implantation or topotecan infusion.
- If the patient's final pathology analysis of initial stereotactic biopsies fails to validate intraoperative assessment of tumor recurrence, he/she will be deemed inevaluable, and will be removed from the study **and replaced**. He/she will not initiate topotecan infusion, and will undergo removal of catheter and pump as needed.
- If at any time the patient develops unacceptable toxicity, such as severe myelotoxicity defined as grade 4 thrombocytopenia, anemia, or neutropenia lasting at least 1 week using the current active version of the NCI CTCAE, he/she will be removed from study. However, systemic effects are thought to be minimal due to the small amount of drug expected to enter the systemic circulation.
- If the patient fails to comply with the defined treatment plan and follow-up evaluations, the patient may be removed from the study at the discretion of the treatment investigator.
- If the patient withdraws consent for continued participation, he/she will be removed from study.

6.5.2 Data Collection and Follow-up for Withdrawn Subjects

Even though subjects may be withdrawn prematurely from the study, it is imperative to collect at least survival data on such subjects throughout the protocol defined follow-up period for that subject (though careful thought should be given to the full data set that should be collected on such subjects to fully support the analysis). Such data is important to the integrity of the final study analysis since early withdrawal could be related to the safety profile of the study drug. If a subject withdraws consent to participate in the study, attempts will be made to obtain consent from the subject to record at least survival data up to the protocol-described end of subject follow-up period. It must be a high priority to try to obtain at least survival data on all subjects lost to follow-up and to note what methods should be used before one can state the subject is truly lost to follow-up (e.g. number of phone calls to subject, phone calls to next-of-kin if possible, certified letters, etc.). Subjects who have received study drug and are withdrawn because of unacceptable adverse events will be followed until resolution or stabilization of the adverse event. An exception to this continued follow-up includes patients whose initial biopsies are not consistent with recurrent highgrade glioma and are removed from the study prior to catheter implantation and treatment initiation due to being inevaluable. Since these patients will not have undergone any experimental treatment intervention, study follow-up will be unnecessary beyond appropriate safety monitoring. They will undergo standard postoperative follow-up with the operating surgeon. In all cases, survival information may be available from public records, and will be collectable, consistent with FDA guidelines.

7 REGISTRATION PROCEDURES

7.1 CUMC Research Participant Registration

Confirm eligibility as defined in the section entitled Criteria for Subject Eligibility.

Obtain informed consent, by following procedures defined in section entitled Informed Consent Procedures, along with applicable institutional policies and federal regulations.

Only Investigators/Research personnel properly trained and delegated to consent subjects for this protocol will participate in the consenting process. Furthermore, properly delegated/trained Physician Investigators (e.g., MD, MD PhD) are required to sign/verify a protocol specific Eligibility Checklist for each subject enrolled on the study, in addition to providing the relevant source documentation confirmation subject eligibility.

All participants must be centrally registered through the Central Registration Office within Herbert Irving Comprehensive Cancer Center at CUMC prior to initiation of study treatment.

Registration hours are available Monday through Friday from 9:00am - 5:00pm EST (excluding holidays and weekends). Same day patient registrations (and after hour registrations) will be accommodated on a case by case basis provided that the study team has expressed all time sensitive registration concerns/cases in a timely manner to the Central Registration Office.

CPDM Central Registration Procedures:

Within 48 hours of obtaining consent (excluding holidays and weekends), a completed/signed IRB approved informed consent HIPAA form, and demographics forms should be submitted to the CPDM Central Registration Office via an email to CPDMRegistration@columbia.edu or fax to 212.305.5292, with the subject line "AAAQ9520 Pending Subject Registration Request (PHI)". Upon receipt, applicable subject information as well as a "pending eligibility" status will be entered into HICCC's institutional database. This status will remain until further source documentation is made available to confirm overall patient eligibility. Required materials for all pending registration submissions are as follows:

- Completed/signed IRB approved/stamped Informed Consent Forms, including additional study ICFs (e.g., tissue, DNA, etc.), as applicable.
- The completed/signed IRB approved HIPAA Authorization form
- Completed/signed CPDM ICF checklist
- Completed/signed HICCC personal census form
- Completed/signed CPDM Demographics Note to File

In order to confirm eligibility status, Investigators/designees (e.g., study specific Clinical Research Coordinator/Research Nurse, etc.) must submit the following documentation to the Central

Registration Office via email or fax:

- The completed/signed study specific Eligibility Checklist (signed by a Physician level Investigator)
- Copies of source documentation necessary for each item to be verified on the CPDM specific Eligibility Checklist, including but not limited to:
- o Copy of required laboratory test and procedure reports (e.g., hematology, serum chemistry, pregnancy test when applicable, MRI reports, CT/bone scans, etc.)
 - Copy of pathology and surgical reports
- O Copy of clinic note(s) or other appropriate medical records capturing the consent process information, along with providing source documentation of any other items needed for screening/eligibility that are not captured in other source document forms (e.g., positive investigator statements of unique eligibility items not captured via other direct source documentation, concomitant medication lists, etc.)
 - Protocol deviation/waiver approvals (if applicable)
- <u>Please note</u>: subject line of email or fax should include the following: "AAAQ9520 Complete Subject Registration Request (PHI)".

Upon receipt of the above mentioned documentation, participant eligibility information will be verified by a qualified Central Registration Registrar. If any questions arise during the review process, queries in the form of emails will be addressed to the applicable study team personnel for clarification prior to enrollment. All applicable finalized registration/eligibility information will then be entered into HICCC's institutional CTMS database by the Central Registration Registrar. Upon completion, an official subject registration notification email will be sent to the PI/research team which will include eligibility/enrollment status, as well as subject ID information. Protocol therapy may not be initiated prior to receipt of this notification from the Central Registration Office.

All screen fail/ineligible subjects, as well as subject's who withdraw consent prior to enrollment/initiation of protocol therapy must be submitted to the Central Registration office in a manner analogous to the procedures noted above. Applicable source documentation will be required within the corresponding submissions.

8. TREATMENT PLAN

Note: A detailed chronological description of study procedures has been included. Please see Appendix B.

8.1 <u>Agent Administration</u>

Patients will have treatment administered on an inpatient or outpatient basis per investigator discretion. Patients will be hospitalized during each active infusion pulse lasting 48 hours, plus or minus 6 hours. Patients may be discharged from the hospital during the intervening 5-7 day infusion holidays at the discretion of the investigator. Reported adverse events and potential risks for Topotecan and Gadolinium are described in Section 10. Appropriate dose modifications for Topotecan and Gadolinium are described in Section 9.

Patients will receive 200uL/hr of 146uM topotecan for 48 hours, plus or minus 6 hours (daily volume = 4.8 mL; total volume = 9.6 mL) followed by between five to seven days of therapy holiday during which the pumps will be set at the minimum programmable rate (2uL/hr; 5-7 day volume = 0.24-0.336mL). This cycle will be repeated two more times. After three complete cycles, patients will receive a fourth and final pulse at the same infusion rate (200uL/hr for 48 hours, plus or minus 6 hours). After this fourth dose, patients will be taken to the OR for pump removal and tumor resection as described. Once infusions are initiated, they will be carried out over a total of approximately 23-29 days. Gadolinium will only be included in the CED infusion during the first and fourth pulses of therapy; during the second and third pulses, topotecan will be infused alone. Minor under or over infusions of 10% or less are not considered protocol violations. See section 5.4.2 for dose modifications.

Gadolinium is a widely available MRI contrast agent that is used routinely in clinical practice via IV administration, especially for imaging of intracranial tumors. Gadolinium has been utilized in multiple previous CED investigations with promising results [2, 5, 17-22], and, thus, can be safely used as an intraparenchymal CED co-infusate in this study. The interactions between topotecan and gadolinium have been evaluated via multiple assessments, and no concerning interactions have been identified. During our porcine trial, gadolinium was included in all infusions. Characteristic hyperintense T1 gadolinium signal was appreciated on all MRIs performed, suggesting that gadolinium's imaging properties are retained despite presence of topotecan. MTS assays were performed on human U87 glioma cell lines in which cytotoxic efficacy of 146uM topotecan both with and without 1:100 gadolinium were assessed. In comparison to nutrient rich media without drug, both the TPT-alone and TPT-gadolinium treated cells demonstrated a statistically significant reduction in glioma cell density (p<0.01 for both). However, no difference in cytotoxicity was seen when the TPT-alone and TPT-gadolinium treated cells were compared (p = 0.48; see study report). TPT, therefore, retains its anti-tumoral activity at 48 hours despite the presence of gadolinium.

8.1.3 Other Modalities or Procedures

<u>Implanted pumps</u>:

Medtronic Synchromed II:

PMA/510(k) number: P860004
 Model Number: Model 8637-20

3) Indication for Use

- a. Approved: "Chronic intraspinal (epidural and intrathecal) infusion of preservative-free morphine sulfate sterile solution in the treatment of chronic intractable pain, chronic intrathecal infusion of preservative-free ziconotide sterile solution for the management of severe chronic pain, and chronic intrathecal infusion of Lioresal® Intrathecal (baclofen injection) for the management of severe spasticity; chronic intravascular infusion of floxuridine (FUDR) or methotrexate for the treatment of primary or metastatic cancer. Outside of US: Chronic infusion of drugs or fluids tested as compatible and listed in the product labeling."[23]
- b. **Proposed:** Chronic intracerebral infusion of topotecan-gadolinium for patients with recurrent high grade glioma.
- 4) Administration routes/drugs
 - a. Approved:
 - i. **Drugs:** Morphine sulfate, Baclofen, Ziconotide, Floxuridine, Methotrexate
 - ii. Routes: Epidural, Intrathecal, Intravascular
 - b. Proposed:
 - i. Drugs: Topotecan, gadolinium
 - ii. Route: Intracerebral (intratumoral)
- 5) Critical Performance Attributes
 - i. Approved: Flow rates: 0.048mL/day-24mL/day
 - ii. Proposed: Flow rates: 0.048mL/day & 4.8mL/day
- 6) Accessories (software programmer, catheters, tubing, etc.)
 - a. Catheters: Ascenda intrathecal catheter (models 8780, 8781)
 - **b. Programmers: Synchromed II Tablet Clnician Programmer;** N'Vision Clinician Programmer (model 8840), myPTM Personal Therapy Manager (model 8835)

Synchromed II infusion pumps (Medtronic), currently FDA-approved for the treatment of spasticity and chronic pain, will be implanted subcutaneously to facilitate chronic infusion of intracerebral chemotherapy. This application represents an off label used of this device. Such an internalized infusion system will allow the extension of CED to approximately 23-29 days while avoiding complications associated with externalized catheters. Preclinical studies in pig models have demonstrated both safety and feasibility of prolonged intracerebral topotecan CED utilizing internalized Synchromed II infusion pumps (see section 4.1).

The Synchromed II infusion pump will be used well within its critical performance range to chronically deliver a fixed volume of fluid over time. The Medtronic pump will be placed under the subcutaneous fascia. This is consistent with the approved use of this product, as such no bio-incompatibility is expected. In these regards, the proposed use of this product for this study is not different from its approved use. The differences that arise are two.

One difference is a change in the drug that is being delivered. Topotecan-gadolinium will be used instead of the approved morphine sulfate, baclofen, ziconotide, floxuridine, and methotrexate. Notably, since the pump is compatible with methotrexate, there is a precedent for

its use with chemotherapeutics. The risk of using topotecan-gadolinium, which is not currently approved for use with this pump, is that drug-device incompatibility could occur leading to over/underdosing of medication or damage to the device. However, based on our preclinical studies in pigs in which the same pumps and drugs were used, no device interactions were noted. Pumps did not experience unexpected stalls or interruptions in infusions. Pumps continued to infuse without complication throughout the entirety of the intended infusions (up to 32 days). Topotecan was detectable in the target tissue by LCMS and gadolinium was detectable by MRI, suggesting that neither drug was altered by the device components with which it came into contact. The risk of drug incompatibility causing dosing errors will be mitigated by regular pump interrogations following pump implantation as well as prior to and following all MRI procedures and pump refills. During pump refills, remaining drug volumes will be aspirated, measured, and compared to the expected remaining volume based on infusion rates. While passing through the Medtronic pump, the study drug will come into contact with the following materials: titanium, silicone, and polyvinylidene fluoride. There is no expected interaction between study drug and titanium or silicone, as these products are used in several implanted ports through which topotecan has been infused in human trials[27]. Polyvinylidene fluoride is a plastic that is particularly nonreactive, and resistant to solvents, acids, and bases. As such, this material would not be expected to interact with study drug. Furthermore, as mentioned above, in our porcine experiments, topotecan was detectable in the target tissue by LCMS and gadolinium was detectable by MRI, suggesting that neither drug significantly interacted with materials within the Medtronic pump.

The second difference that arises in this experiment is the target infusion location. The pump is approved for use in the epidural, intrathecal, and intravascular spaces; however, our project will employ its use in the intracerebral space. The issue should not present significant new risks, as the pumps ability to infuse a fixed volume of fluid over time should not be changed by the intracerebral location of the infusion catheter. By nature of the fact that the pump is certified for intrathecal use, it is capable of delivering drug despite normal fluctuations in ICP. In fact, the fluctuations in ICP encountered in lumbar intrathecal location would be greater than those found intracranial, as intrathecal lumbar pressure can fluctuate widely with patient position (standing, recumbent). Since intracerebral placement, would subject the pump to usual intracranial ICP (with fewer fluctuations than lumbar placement) there should be no pressure related mechanical issues preventing stable infusion. The risk that arises due to intracranial location is that errors in dosing could result in cerebral damage. Again, this risk is mitigated by the fact that the pump will be used within its critical performance attribute range. The pump will be regularly interrogated and drug dosing will be regularly checked as described above. Regular cerebral imaging (MRIs) will be obtained, in which brain swelling and mass effect will be assessed. In the case of complication related to drug infusion causing cerebral edema/mass effect, the following measures (as described in the protocol) can be performed if indicated: the infusion can be stopped, steroids, mannitol, hypertonics can be administered, and decompressive craniotomy/craniectomy can be performed.

Pump programmers:

All pump settings will be programmed into the pump using the Synchromed II Tablet clinician

programmer. Prior to pump implantation and catheter connection, the pump will be filled with study drug and then programmed to deliver a priming bolus of 0.3mL so that the internal pump tubing is primed with study drug. As mentioned, the use of this priming bolus program will be used prior to pump implantation, as is recommended in the Medtronic manual.

Following the priming bolus, the pump will be implanted. Active infusion will then be initiated 1-7 days following pump implantation. At that time, the pump will be programmed to the "simple continuous" setting at an infusion rate of approximately 0.2ml/hr for 48 hours, plus or minus 6 hours. Upon completion of the intended 48 hours of infusion, the pump will then be set at the minimal programmable flow rate of 0.048ml/hr, for 5-7 days, plus or minus one day. This processes will be repeated for every subsequent pulse. After each reprogramming, the pump will be interrogated with the Synchromed II Tablet clinician programmer to ensure the correct settings are programmed.

Notably, the myPTM Personal Therapy Manager will not be utilized, as all interrogations and infusion adjustments will be performed by the study investigators. In order to ensure safety, patients will not have the ability to modify the infusion rates, as such the myPTM Personal Therapy Manager will have no role in this study.

Infusion Catheters:

Spetzler Lumbar Peritoneal Catheter

- 1) PMA/510(k) number: K811288
- 2) Model Number: Integra (NL97105S01)
- 3) Indication for Use- approved and proposed
 - **a. Approved:** CSF drainage from lumbar subarachnoid space to the peritoneum (lumboperitoneal shunt)
 - b. Proposed: Intracerebral/intratumoral infusion of topotecan
- 4) Administration routes/drugs
 - a. Approved: Intrathecal; CSF drainage
 - b. Proposed: Intracerebral; topotecan-gadolinium infusion
- 5) Critical Performance Attributes
 - a. Length-105cm; Outer diameter-1.5mm; Inner diameter-0.7mm
 - b. Should not be used for CSF drainage in presence of non-communicating hydrocephalus, known or suspected meningitis, ventriculitis, skin infection, bacteremia, septicemia, or peritonitis.

The catheter is made of a silicone elastomer and approved for lumbar subarachnoid placement for drainage of CSF into the peritoneum. In the proposed study, the catheter will be placed intraparenchymal which represents a difference from it approved placement route. This application represents an off label used of this device. Both of these spaces (intra-parenchymal and lumbar subarachnoid) however, are intradural and thus within the neuroaxis. As such, there should be no

increased risk of infection/meningitis with the proposed placement. In terms of catheter contact with the brain parenchyma, no additional risk is perceived as the catheter is made of the same silicone elastomer as all Integra CSF shunting products, many of which are purposely designed to traverse brain parenchyma. Furthermore a larger diameter Integra lumbo-peritoneal catheter of the same type was used in our previous human trial for intraparenchymal/intratumoral placement and topotecan infusion without catheter-associated complications[1].

In its approved use, the lumbar catheter tubing passes though muscle, fascia, fat, and subcutaneous tissue, and is thereby compatible with all of these spaces. The catheter, in the proposed use, will be placed below the subcutaneous fascia and above muscle. Since the catheter normally passes through these spaces, no biological incompatibility is expected with the proposed use. Furthermore, during our porcine preclinical experiments in which these catheters were placed in the subcutaneous soft tissue, no abnormal tissue swelling or breakdown was seen along the catheter tract.

The main risk arises from the fact that the catheter is not designed for drug delivery. As such, there is a risk of drug incompatibility with the catheter material. As mentioned above, this catheter is made of the same silicone elastomer as other Integra CSF shunting products. Specifically, the Integra Pudenz proximal catheter (Integra, Plainsboro NJ, NL850-1504) is also made of silicone elastomer, and is designed for both CSF shunting as well as drug delivery. This silicone catheter is used in conjunction with Integra Ommaya drains (Integra, Plainsboro NJ, product number: NL8501213) to deliver various intrathecal chemotherapeutics, including topotecan in various clinical trials [28-32]. As such, there is no reasonable expectation of drugmaterial interaction using the proposed catheter. This expectation is supported by the fact that topotecan-gadolinium was infused through proposed lumbar catheters in our preclinical porcine trial. Following infusion through these catheters, topotecan was detectable in the target tissue by LCMS and gadolinium was detectable by MRI, suggesting that neither drug was altered by the catheter components with which it came into contact. Following infusions, visual inspection of the catheters revealed no breaks or discontinuities in the catheter materials.

Additionally, since the catheter is not designed specifically for drug delivery, there is the possibility that the catheter will be unable to deliver drug at the desired rate due to flow limitations. This risk is extremely unlikely. The lumbar catheter is designed to accommodate fluid flow at a rate similar to (and exceeding) that of CSF production, which is roughly 20mL/hr. As such, the catheter should be capable of accommodating continuous fluid flow at the far lower rate of 0.2mL/hr required in this study. Again, in preclinical porcine studies, topotecangadolinium was successfully delivered through this catheter without obstructions to flow as evidence by the presence of intracerebral gadolinium observed on MRI. To ensure appropriate drug delivery through the catheter, regular pump interrogations will be performed as described above. During pump refills, remaining drug volumes will be aspirated, measured, and compared to the expected remaining volume based on infusion rates. Serial MRIs will be performed to ensure successful delivery of drug to the target tissues.

The only modification that will be made to the catheters is that roughly 20mm of the proximal end of the closed tipped catheters will be cut off. This modification will remove the multiple

draining holes that are found along the length of the first 17mm the catheters. This modification will ensure that there is only one efflux point for the drug infusion from catheters. It will also allow connection of the lumbar catheter to both the intracerebral catheter and infusion pump, thereby creating a closed system with no additional/unintended points of drug efflux. This modification will increase safety, as it will ensure that drug is delivered directly to the desired target area at the tip of the catheter. This modification should pose no increased risk to the patient.

While the lumbar catheter proposed is not approved for use with the Medtronic pump, it has been used in combination with the Synchromed II pump in our preclinical animal experiments without issue. The outer diameter of the proposed catheter is 1.5mm and the inner diameter is 0.7mm. This catheter has been used during preclinical pig experiments. A secure connection between the catheter tubing and the Synchromed II port is able to be formed without slippage of the catheter. However, the main risk of using this catheter with the Synchromed pump would be a catheter-pump disconnection. This risk is mitigated by tying a 2-0 silk suture around the connection site and securing it with tight surgical knots. This technique has been used in the pig experiments and no instances of catheter-pump disconnections occurred. To further mitigate risk of catheter pump disconnection, an excess loop of catheter will be left in the shunt pocket to allow for additional slack on the catheter thereby preventing tension from being placed on the catheter-pump connection.

Note: The contraindication to use of the lumbar catheters in patients with large intracranial masses, tumors or hematomas does not pertain to this study. The contraindication is specifically in reference to lumbar CSF drainage, which, when performed in patients with such masses, can induce brainstem herniation. Since the catheter will not be used for CSF drainage in this study, the contraindication does not apply. Furthermore no metal or valve elements of the typical Spetzler shunt system will be used in this experiment. The only part of the system that will be used is the MRI-safe silastic catheter.

Biopsies, Catheter placement and MRI imaging Procedures:

A pre-biopsy MRI will be performed to optimize catheter trajectory selection to ensure optimal CED and tumor coverage. Patients will then undergo stereotactic biopsies of the tumor to verify the diagnosis and distinguish active tumor from radiation necrosis (also called pseudoprogression or treatment effect). The specimens taken at the time of catheter placement will also be used for comparison to post treatment specimens. If the initial biopsies are consistent with active tumor/recurrent tumor on a frozen section performed at the time of biopsy, the patient will be considered pathologically evaluable, and catheter placement will proceed. If the initial biopsies are consistent with active tumor/recurrent tumor on a frozen section performed at the time of biopsy, the patient will be considered pathologically evaluable, and catheter placement will proceed. However, if the final pathology analysis fails to validate intraoperative assessment of tumor recurrence, treatment may not be necessary, the patient will be deemed inevaluable, and will be removed from the study and replaced. The patient will not initiate topotecan infusion, and will undergo removal of catheter and pump as needed.

If frozen section pathology does not clearly demonstrate active tumor consistent with high grade

glioma, the patient will be considered unevaluable (and subsequently replaced), the procedure will be stopped, and the patient's incision will be closed in standard surgical fashion. We recognize that final pathology may yield a diagnosis of recurrent tumor not confirmed on frozen section; such patients will be planned to undergo resection as part of standard of care at the discretion of the treating investigator, but we would prefer to exclude some patients who may ultimately be proven to have recurrence to guard against the possibility of treating a patient who does not have recurrent active tumor.

All measurements and volumes below are to be considered approximate and minor differences in technique at the discretion of the surgeon are not considered protocol violations.

For the pathologically evaluable patients, a cranial incision and burr hole will be made through which as single catheter will be placed stereotactically into the geometric center of the tumor at a site chosen to maximize coverage of the tumor and adjacent infiltrated brain tissue based on spherical distribution. We will utilize a simple 1.5 mm outer diameter silastic Spetzler lumbar shunt catheter that is commercially available (Integra, Plainsboro, NJ; see above) for intracranial placement. Our experience testing different catheters is that they play a minor role in CED. That is, the design of the catheter does not significantly alter the more important aspect of CED, which is to maximize the volume of distribution. Our use of the standard shunt catheter is in keeping with our goal of a CED system that will be readily available to other investigators. All catheters will be trimmed in order to remove multiple drainage slits from the proximal and distal ends of the catheter. This will require 1.7cm of catheter to be removed from the distal end and 4cm of catheter be removed from the proximal end. This trimming will occur intraoperatively on the sterile surgical equipment stand. The catheter will be trimmed at 90 degrees to the length of the catheter using standard sterile surgical scissors. The excess catheter ends will be immediately removed from the surgical field, counted, and discarded. The proximal catheter will be placed without priming, as an inner stylet will be required to assist placement. The distal catheter and pump will be primed with study drug prior to implantation. Importantly, since the proximal catheter will not be primed, there will be an unavoidable amount of dead space in the catheter system. The maximal proximal catheter length will be 99.3 cm, taking into account the 1.7 cm and 4 cm of length that will be removed from the distal and proximal ends of the catheter, respectively. The inner diameter of the catheter is 0.07 cm. Thus, the maximal dead space volume is 0.38 mL. In certain patients, the length of the proximal catheter may have to be shorted based on the depth of the tumor. However, any changes to the length of the catheter will result in sub-milliliter differences in the volume of dead space. Such a small volume of maximal dead space and inter-patient variability in dead space is considered negligible for the purposes of this study. Given the fact that maximal infusion volumes in out porcine preclinical studies have reached an average volume of 11.30 mL, a dead space volume of up to 0.38 mL should not present a barrier to assessment of therapy distribution.

A second incision roughly the size of the infusion pump will be made in the either the chest or the subcostal region (midway between the rib bone and hip bone) ipsilateral to the intracranial catheter. Chest or subcostal placement will be decided by the operative surgeon based on the patient's body habitus. A subcutaneous pocket large enough to hold the infusion pump will be created using blunt dissection. Once the pocket is created, a second, 1.5mm outer diameter silastic Spetzler Integra

lumbar catheter (see above) will be tunneled rostrally within the subcutaneous tissue to the cranial incision using a shunt passer as is done in typical ventriculoperitoneal shunt placement. The proximal and distal tubing will be connected with a nylon straight connector, and the distal tubing will be connected to the infusion pump, which will be placed in the subcutaneous pocket that was created. All connection points will be reinforced with 2-0 silk suture ties. Of note, the pump will be implanted with the device face up in the subcutaneous soft tissue while the patient is supine (required to allow for pump refills). In this position, the refill port face of the pump will run parallel to the patient's skin. This face up position relative to the patient will be confirmed prior to closure of the surgical site. This positioning is important as it will prevent permanent pump stalls caused by 90° alignment of the implanted pump with the Z axis of 1.5 T and 3.0 T horizontal, closed-bore magnetic resonance imaging (MRI) scanners during MRI procedures. After pump position is confirmed, the proximal and distal incisions will then be closed in standard fashion after hemostasis is achieved and the wounds are copiously irrigated with antibiotic irrigation as per typical protocol. Closure of all wounds will provide a safe, closed, sterile system suitable for chronic treatment. CT and/or MRI will be performed to confirm intracerebral catheter placement. Following pump-catheter placement, the patient will be given 1-7 days to recover from surgery prior to initiation of active infusion.

There is potential for permanent stall if there is 90° alignment of an implanted pump with the Z axis of 1.5 T and 3.0 T horizontal, closed-bore magnetic resonance imaging (MRI) scanners. As recommended by the Medtronic manual, prior to all MRIs, pumps will be palpated by the investigator to ensure that their positioning has not shifted and to confirm that there is no possibility for a 90-degree alignment with the Z axis of the MRI. In accordance with Medtronic recommendations, pumps will be interrogated with the Synchromed II Tablet clinician programmer following MRIs. The investigator will ensure that the event log has recorded the following events: "Motor stall occurred" and "Motor stall recovery occurred." If these events are not logged, the pump will be re-interrogated after 20 minutes as is recommended. This procedure will be repeated until stall recovery is recorded. If motor stall recovery is not achieved after repeated attempts, a Medtronic representative will be contacted for further troubleshooting assistance.

Pumps will be refilled percutaneously with new infusate prior to the start of each new 48-hour pulse.

Quality of life and cognitive stability assessments will be administered throughout the infusion process and at designated follow-up intervals (see section 12).

After four cycles of infusion, patients will undergo craniotomy for surgical resection of the tumor. Surgery will proceed in standard fashion with the use of frameless stereotactic neuronavigation. At the time of tumor resection, MRI-directed stereotactic biopsies from sites within the gado volume and sites outside will be collected for TPT concentration measurements at strategic distances from the catheter tip. Tumor and peritumoral brain tissue removed as part of the surgical resection will be collected for histological analysis of treatment effects. During this procedure, the entire infusion system will be removed, including the intracranial catheter, tunneled distal catheter,

and infusion pump. The infusion pump will be removed by reopening the previous chest or subcostal incision, which will then be closed in standard surgical fashion after the pump is removed and hemostasis is achieved.

Throughout the course of the infusions there will be multiple checks in place in order to identify system failures. Firstly, patients will undergo serial MRIs. This procedure will provide direct visual evidence of continued drug delivery. If a decreasing volume of drug distribution is seen during an active infusion, or if an increasing volume of drug distribution is seen during a rest phase, the system will be further investigated via pump interrogation and possible residual drug aspiration. Following every MRI and refill procedure, the pump will be interrogated using the Synchromed II Tablet clinician programmer. The programmed infusion rate will be verified, and any stalls or incorrectly programmed rates will be noted. The programmer will also be used to check the residual volume of drug in the pump. This value is the result of a calculation based on the programmed rate and initial drug volume in the pump. This calculated volume will then be compared to the volume of residual drug aspirated from the pump during refill procedures. Any discrepancy between calculated residual volume and actual residual volume may signal an infusion malfunction. Such discrepancies will be recorded. By comparing data from pump interrogations, refills, and MRIs, both the integrity of the pump and catheter can be assessed. For instance, if infusion is not seen on MRI, and both pump interrogation and residual pump volume investigation are normal, a potential catheter disconnection may explain the MRI findings. In this situation, an X-ray or ultrasound of the catheter course can be obtained to assess the integrity of the tubing. If infusion is not seen on MRI, electronic pump interrogation is normal, but excess residual drug is aspirated during a refill, a block in the tubing may have occurred. Again, an Xray or ultrasound can be obtained to assess the integrity of the tubing. Failures in the pump itself will be recognized by electronic interrogation.

Pump Refills:

Pumps will need to be refilled prior to each pulse of therapy. Pump refills will be performed at the bedside while the patient is inpatient. The pump will be refilled in standard fashion in accordance with Medtronic guidelines using a designated Medronic SynchroMed II refill kit. The pump template will be used to localize the refill port. If factors such as seroma or deep pump placement limit the ability to localize the refill port by palpation, X-ray will be utilized in accordance with Medtronic recommendations. Once the refill port is localized, the skin and soft tissue will be locally anesthetized with a local anesthetic injection. A 22-gauge non-coring needle contained within the kit will be used to puncture the skin/soft tissue and access the refill port. Placement within the refill reservoir will be confirmed by aspirating drug from within the pump. All residual drug within the pump will be aspirated prior to refilling the pump with new infusate solution. Care will be taken to ensure that no drug extravasates subcutaneously or comes in contact with the patient's skin.

8.2 General Concomitant Medication and Supportive Care Guidelines

No prophylactic or supportive care regimens are required for topotecan or gadolinium administration. Renal function should be tested prior to topotecan administration. Systemic side

effects of topotecan are expected to be limited due to the small amount of drug expected to enter the systemic circulation.

Standard supportive care at the discretion of the investigator is allowable. The case report form must capture the concurrent use of all other drugs, over-the-counter medications, or alternative therapies.

8.3 <u>Duration of Therapy</u>

In the absence of treatment delays due to adverse events, treatment may continue for entire planned duration of drug infusion (approximately 23-29 days) unless one of the following criteria applies:

- Intercurrent illness that prevents further administration of treatment
- Unacceptable adverse event(s), per the discretion of the principal investigator and primary attending physician
- Patient decides to withdraw from treatment.
- General or specific changes in the patient's condition render the patient unacceptable for further treatment in the judgment of the investigator

8.4 <u>Duration of Follow Up</u>

Patients will return as outpatients for follow-up evaluation at one-two and four-five weeks following termination of infusion, unless there is clinical or radiographic indication for more frequent monitoring. Following this assessment, further medical follow-up will be guided by their primary treating physician in accordance with standard of care. Patients will be contacted by phone every 3-6 months until death to assess for survival data. Patients removed from study for unacceptable adverse events will be followed until resolution or stabilization of the adverse event.

8.5 <u>Criteria for Removal from Study</u>

Patients will be removed from study when any of the criteria listed in Section 8.3 applies. The reason for study removal and the date the patient was removed will be documented in the Case Report Form.

9 DOSING DELAYS/DOSE MODIFICATIONS

Refer to section 5.4 for dose, dose modifications, dose delays and dose limiting toxicities.

10 ADVERSE EVENTS: LIST AND REPORTING REQUIREMENTS

10.1 Adverse events

Topotecan:

We have extensive experience with TPT by CED in human and animal studies with little toxicity except at concentrations of drug greater than planned for in this study [3-5]. In this planned clinical study of topotecan for HGG, the drug will be injected mostly into the tumor and a small amount of brain around the tumor. The brain at risk will mostly be the brain immediately beside the tumor which might result in increased swelling around the tumor after treatment that could cause a brief worsening of brain function. Possible risks associated with such chemotherapy-induced irritation could include seizures, paralysis, sensory loss, language difficulty, loss of intellectual function, and death. Any swelling and the associated clinical worsening should go away in one to two weeks and should be helped by steroids. Systemic effects are thought to be minimal due to the small amount of drug expected to enter the systemic circulation. Upon refilling of the Medtronic infusion pumps, there is small risk of topotecan extravasation into the subcutaneous tissue which could lead to mild local tissue reactions including erythema and bruising as well as severe local tissue injury. There is also risk of similar local tissue injury due to drug extravasation in the event that the infusion catheter becomes disconnected or damaged. Topotecan is considered an irritant chemotherapeutic. Therefore, local extravasation or direct skin contact can lead to tissue inflammation, redness, swelling. There is potential for topotecan to cause local tissue necrosis, however reports of such severe soft tissue reactions were not found in the literature. As topotecan is used as an IV chemotherapeutic, extravasation does likely occur in clinical practice. Case reports document instances of extravasation leading to local discomfort and soft tissue swelling that resolve with cooling the area[33]. Various clinical guidelines at chemotherapy infusion centers similarly recommend cold pack application and washing with soap and water ([34, 35]). As such, should topotecan be found to extravasate or come into contact with skin during this study, the area will be irrigated with soap and water, a cold pack will be applied to extravasated area for 30 min every four hours for 24 hours, and topical hydrocortisone cream 1% will be applied every 6 hours for 7 days. If a subcutaneous drug fluid pocket is present, the pocket can be aspirated to remove as much drug as possible. The risk of extravasation will be mitigated by proper refill technique protocol.

Gadolinium:

Both animal and human trials[2, 5, 17-22] have shown that intracerebral infusion of gadolinium compounds are safe and well tolerated. Pre-clinical animal studies have demonstrated that gadolinium is safe in long-term chronic co-infusion up to 6 weeks[14, 15]. In our previous long-term CED in porcine models, gadolinium was utilized without toxicity issues [2], including in infusions of up to 32 days. Gadolinium has thus been employed in many previous CED studies with promising results, and can be safely used in this study. IV administered gadolinium-based contrast agents have been identified as the cause of the rare disease nephrogenic systemic fibrosis (NSF), which presents as acute to subacute edema of the extremities as well as cutaneous plaques[36]. NSF can also be associated with extremity pain and muscle contractures, and can lead to severe disability and even death. However, development of NSF after gadolinium administration has been linked to renal impairment, with prevalence of 2-6% in patients with severe renal impairment[36] It is unlikely that gadolinium CED would contribute to NSF since it will be given extravascularly in a dilute solution (1:100 gadolinium). Nevertheless, patients in this study will be

screened for appropriate renal function (see Section 6.1), as they will receive both intraparenchymal gadolinium with CED and IV gadolinium for follow-up MRIs. As with any medication, there is risk of allergic reaction and possible anaphylaxis with administration of gadolinium. Patient's will be monitored for allergic reactions and treated appropriately if any evidence of allergy is identified. Patient's with known pre-existing contrast allergies will be excluded from participation in the study.

Of note, the interactions between topotecan and gadolinium have been evaluated, and no concerning interactions have been identified. During our porcine trial, gadolinium was included in all infusions. Characteristic hyperintense T1 gadolinium signal was appreciated on all MRIs performed, suggesting that gadolinium's imaging properties are retained despite presence of topotecan. MTS assays were also performed on human U87 glioma cell lines in which cytotoxic efficacy of 146uM topotecan both with and without 1:100 gadolinium were assessed. In comparison to nutrient rich media without drug, both the TPT-alone and TPT-gadolinium treated cells demonstrated a statistically significant reduction in glioma cell density (p<0.01 for both). However, no difference in cytotoxicity was seen when the TPT-alone and TPT-gadolinium treated cells were compared (p = 0.48; see study report). TPT, therefore, retains its anti-tumoral activity at 48 hours despite the presence of gadolinium.

Convection enhanced delivery

The primary risk of CED has been the effects of increased fluid volume in the brain surrounding the tumor. Complications related to cerebral edema from the direct effects of increased volume occur in approximately 10 to 20% of patients [37]. These complications can be manifest by focal neurological deficits referable to the region of the brain being infused or they can result in general lethargy and decreased cognitive function if the edema is more generalized. Cerebral edema is usually reversible by stopping the infusion and treating the patient with dexamethasone and/or mannitol and hypertonic saline.

Operation [Stereotactic surgery]

The risks of inserting the infusion catheter into the tumor depend on the tumor's size and location. Possible risks include bleeding, worsening of brain functions (such as moving, feeling and thinking functions), and infection. These risks are expected to happen with a frequency of less than 1-2%. The chance of infection after operations in patients with recurrent malignant brain tumors may be slightly higher than 1-2% due to previous radiation damage to the skin, and because of a higher risk of infection in patients with malignant brain tumors.

In the event that there is a device malfunction, it may be reasonable to attempt revision surgery. Revision may be attempted for identified pump/catheter disconnections, pump failures/permanent stalls, and catheter kinking, all of which would result in failure to deliver drug to the target tissue. The risks of such a revision surgical procedure would be similar to the risks of the initial surgery and include infection, bleeding, as a well as risks associated with general anesthesia. During reoperations there is risk of damage to the catheter-pump system, which could

result in a catheter disconnection. Such an event could result in extravasation of chemotherapy into the soft tissue. Topotecan is considered an irritant chemotherapeutic. Therefore, local extravasation or direct skin contact can lead to tissue inflammation, redness, swelling. There is potential for topotecan to cause local tissue necrosis, however reports of such severe soft tissue reactions were not found in the literature. If such extravasation were to occur, the area would be thoroughly irrigated with saline fluid prior to wound closure. The patient's wound would treated with cold packs for 30 min every four hours for 24 hours, and the tissue will be monitored for visible signs of inflammation.

Biopsy

Because a small amount of brain tissue is being removed, there is a chance that some small blood vessels may be damaged and that some bleeding may occur. This frequency is on the order of 1%. Risks of bleeding include loss of neurological function and death.

Surgical complications

The stereotactic catheter implantation procedure and the craniotomy for tumor resection carry a risk for loss of neurologic function, non-neurologic complications and death. These risks depend primarily on the preoperative condition of the patient, the size and location of the tumor and associated diseases. The potential risk for the patient will be determined and will be discussed in detail with the patient prior to the catheter implantation and infusion as well as prior to tumor resection.

Internal infusion pumps:

Implantation of infusion pumps carry a risk of local tissue injury, swelling, hematoma, and infection around the implantation site. These risks will be mitigated by ensuring hemostasis prior to incision closure, as well as use of appropriate antibiotic irrigation and perioperative IV antibiotics. There is a risk of pump malfunction resulting in insufficient or excess drug delivery. There is risk of pump malfunction following magnetic resonance imaging; as such, pumps will be electronically interrogated to ensure proper functioning following all MRIs and at every follow up interval while that pump is in place. There is risk of pump-catheter disconnection causing infusion of drug into the local subcutaneous space, which can lead to local tissue reactions including possible severe tissue injury. To avoid such complications all connection points will be repeatedly checked and secured prior to incision closure. Infusion pump sites will be routinely inspected at follow up intervals. There is risk of damage to the infusion pump and extravasation of drug into the subcutaneous space during pump refills, which will be avoided by following specific manufacturer instructions for pump refills (see 8.1). All of these risks will be discussed with the patient in detail prior to pump implantation.

The Synchromed II infusion pump will be used in an off label manner in this study. However, the pumps will be used well within their critical performance range to chronically deliver a fixed volume of fluid over time. The Medtronic pump will be placed under the subcutaneous fascia. This is consistent with the approved use of this product, as such no bio-incompatibility is expected. In these regards, the proposed use of this product for this study is not different from its

approved use, and thus do not pose additional risk. The differences that arise are two, which may add additional risk to those discussed above.

One difference is a change in the drug that is being delivered. Topotecan-gadolinium will be used instead of the approved morphine sulfate, baclofen, ziconotide, floxuridine, and methotrexate. Notably, since the pump is compatible with methotrexate, there is a precedent for its use with chemotherapeutics. The risk of using topotecan-gadolinium, which is not currently approved for use with this pump, is that drug-device incompatibility could occur leading to over/underdosing of medication or damage to the device. While passing through the Medtronic pump, the study drug will come into contact with the following materials: titanium, silicone, and polyvinylidene fluoride. There is no expected interaction between study drug and titanium or silicone, as these products are used in several implanted ports through which topotecan has been infused in human trials[27]. Polyvinylidene fluoride is a plastic that is particularly nonreactive, and resistant to solvents, acids, and bases. As such, this material would not be expected to interact with study drug. Additionally, based on our preclinical studies in pigs in which the same pumps and drugs were used, no device interactions were noted. Pumps did not experience unexpected stalls or interruptions in infusions. Pumps continued to infuse without complication throughout the entirety of the intended infusions (up to 32 days). Topotecan was detectable in the target tissue by LCMS and gadolinium was detectable by MRI, suggesting that neither drug was altered by the device components with which it came into contact. The risk of drug incompatibility causing dosing errors will be mitigated by regular pump interrogations following pump implantation as well as prior to and following all MRI procedures and pump refills. During pump refills, remaining drug volumes will be aspirated, measured, and compared to the expected remaining volume based on infusion rates.

The second difference that arises in this experiment is the target infusion location. The pump is approved for use in the epidural, intrathecal, and intravascular spaces; however, our project will employ its use in the intracerebral space. The issue should not present significant new risks, as the pumps ability to infuse a fixed volume of fluid over time should not be changed by the intracerebral location of the infusion catheter. By nature of the fact that the pump is certified for intrathecal use, it is capable of delivering drug despite normal fluctuations in ICP. In fact, the fluctuations in ICP encountered in lumbar intrathecal location would be greater than those found intracranial, as intrathecal lumbar pressure can fluctuate widely with patient position (standing, recumbent). Since intracerebral placement, would subject the pump to usual intracranial ICP (with fewer fluctuations than lumbar placement) there should be no pressure related mechanical issues preventing stable infusion. The risk that arises due to intracranial location is that errors in dosing could result in cerebral damage. Again, this risk is mitigated by the fact that the pump will be used within its critical performance attribute range. The pump will be regularly interrogated and drug dosing will be regularly checked as described above. Regular cerebral imaging (MRIs) will be obtained, in which brain swelling and mass effect will be assessed. In the case of complication related to drug infusion causing cerebral edema/mass effect, the following measures (as described in the protocol) can be performed if indicated: the infusion can be stopped, steroids, mannitol, hypertonics can be administered, and decompressive craniotomy/craniectomy can be performed.

Throughout the course of the infusions there will be multiple checks in place in order to identify system failures. Firstly, patients will undergo serial MRIs. This procedure will provide direct visual evidence of continued drug delivery. If a decreasing volume of drug distribution is seen during an active infusion, or if an increasing volume of drug distribution is seen during a rest phase, the system will be further investigated via pump interrogation and possible residual drug aspiration. Following every MRI and refill procedure, the pump will be interrogated using the Synchromed II Tablet clinician programmer. The programmed infusion rate will be verified, and any stalls or incorrectly programmed rates will be noted. The programmer will also be used to check the residual volume of drug in the pump. This value is the result of a calculation based on the programmed rate and initial drug volume in the pump. This calculated volume will then be compared to the volume of residual drug aspirated from the pump during refill procedures. Any discrepancy between calculated residual volume and actual residual volume may signal an infusion malfunction. Such discrepancies will be recorded. By comparing data from pump interrogations, refills, and MRIs, both the integrity of the pump and catheter can be assessed. For instance, if infusion is not seen on MRI, and both pump interrogation and residual pump volume investigation are normal, a potential catheter disconnection may explain the MRI findings. In this situation, an X-ray or ultrasound of the catheter course can be obtained to assess the integrity of the tubing. If infusion is not seen on MRI, electronic pump interrogation is normal, but excess residual drug is aspirated during a refill, a block in the tubing may have occurred. Again, an Xray or ultrasound can be obtained to assess the integrity of the tubing. Failures in the pump itself will be recognized by electronic interrogation.

Pump Refills:

Upon refilling of the Medtronic infusion pumps, there is small risk of topotecan extravasation into the subcutaneous tissue ("pocket fill") which could lead to mild local tissue reactions including erythema and bruising as well as severe local tissue injury. Topotecan is considered an irritant chemotherapeutic. Therefore, local extravasation or direct skin contact can lead to tissue inflammation, redness, swelling. There is potential for topotecan to cause local tissue necrosis, however reports of such severe soft tissue reactions were not found in the literature. As topotecan is used as an IV chemotherapeutic, extravasation does likely occur in clinical practice. Case reports document instances of extravasation leading to local discomfort and soft tissue swelling that resolve with cooling the area[33]. Various clinical guidelines at chemotherapy infusion centers similarly recommend cold pack application and washing with soap and water ([34, 35]). As such, should topotecan be found to extravasate or come into contact with skin during this study, the area will be irrigated with soap and water, a cold pack will be applied to extravasated area for 30 min every four hours for 24 hours, and topical hydrocortisone cream 1% will be applied every 6 hours for 7 days. If a subcutaneous drug fluid pocket is present, the pocket can be aspirated to remove as much drug as possible. The risk of extravasation will be mitigated by proper refill technique protocol.

MRI with Internal Pumps:

Medtronic Synchromed II pump performance has been established for 1.5 and 3T horizontal closed bore MRIs, which are the only types of MRIs that will be used in this study in order to

mitigate risks to the patients. To further mitigate risks, all product catalogue recommendations for MRI use will be followed (see below).

In general, the main risk of MRI is extended pump stalls. During MRI, pump stalls are expected and should occur, but should be temporary in nature. However, pump stalls of 2-24 hours have been reported. Stalls should resolve 20 minutes after the patient is removed from the magnetic field. In accordance with Medtronic recommendations, pumps will be interrogated with the Synchromed II Tablet clinician programmer following MRIs. The investigator will ensure that the event log has recorded the following events: "Motor stall occurred" and "Motor stall recovery occurred." If these events are not logged, the pump will be re-interrogated after 20 minutes as is recommended. This procedure will be repeated until stall recovery is recorded. If motor stall recovery is not achieved after repeated attempts, a Medtronic representative will be contacted for further troubleshooting assistance.

There is potential for permanent stall if there is 90° alignment of an implanted pump with the Z axis of 1.5 T and 3.0 T horizontal, closed-bore magnetic resonance imaging (MRI) scanners. This positioning will be avoided by implanting the device face up in the subcutaneous soft tissue (required to allow for pump refills). In this position, a 90-degree alignment with the Z axis in a closed bore MRI is not possible. As recommended by the Medtronic manual, prior to all MRIs, pumps will be palpated by the investigator to ensure that their positioning has not shifted and to confirm that there is no possibility for a 90-degree alignment with the Z axis of the MRI.

In general, the risk of any pump stall is acceptable, as cessation in topotecan infusion would not present an increased risk to the patient.

Catheters:

The Integra Spetzler catheter utilized in this study will be used in an off label manner for convection enhanced delivery. The catheter is made of a silicone elastomer and approved for lumbar subarachnoid placement for drainage of CSF into the peritoneum. In the proposed study, the catheter will be placed intra-parenchymal which represents a difference from it approved placement route. Both of these spaces (intra-paenchymal and lumbar subarachnoid) however, are intradural and thus within the neuraxis. As such, there should be no increased risk of infection/meningitis with the proposed placement. In terms of catheter contact with the brain parenchyma, no additional risk is perceived as the catheter is made of the same silicone elastomer as all Integra CSF shunting products, many of which are purposely designed to traverse brain parenchyma. Furthermore a larger diameter Integra lumbo-peritoneal catheter of the same type was used in our previous human trial for intraparenchymal/intratumoral placement and topotecan infusion without catheter-associated complications[1].

In its approved use, the lumbar catheter tubing passes though muscle, fascia, fat, and subcutaneous tissue, and is thereby compatible with all of these spaces. The catheter, in the proposed use, will be placed below the subcutaneous fascia and above muscle. Since the catheter normally passes through these spaces, no biological incompatibility is expected with the proposed use. Furthermore, during our porcine preclinical experiments in which these catheters

were placed in the subcutaneous soft tissue, no abnormal tissue swelling or breakdown was seen along the catheter tract.

The main risk arises from the fact that the catheter is not designed for drug delivery. As such, there is a risk of drug incompatibility with the catheter material. As mentioned above, this catheter is made of the same silicone elastomer as other Integra CSF shunting products. Specifically, the Integra Pudenz proximal catheter (Integra, Plainsboro NJ, NL850-1504) is also made of silicone elastomer, and is designed for both CSF shunting as well as drug delivery. This silicone catheter is used in conjunction with Integra Ommaya drains (Integra, Plainsboro NJ, product number: NL8501213) to deliver various intrathecal chemotherapeutics, including topotecan in various clinical trials[28, 29]. As such, there is no reasonable expectation of drugmaterial interaction using the proposed catheter. This expectation is supported by the fact that topotecan-gadolinium was infused through these catheters in our preclinical porcine trial. Following infusion through these catheters, topotecan was detectable in the target tissue by LCMS and gadolinium was detectable by MRI, suggesting that neither drug was altered by the catheter components with which it came into contact. Following infusions, visual inspection of the catheters revealed no breaks or discontinuities in the catheter materials.

Additionally, since the catheter is not designed specifically for drug delivery, there is the possibility that the catheter will be unable to deliver drug at the desired rate due to flow limitations. This risk is extremely unlikely. The lumbar catheter is designed to accommodate fluid flow at a rate similar to (and exceeding) that of CSF production, which is roughly 20mL/hr. As such, the catheter should be capable of accommodating continuous fluid flow at the far lower rate of 0.2mL/hr required in this study. Again, in preclinical porcine studies, topotecangadolinium was successfully delivered through this catheter without obstructions to flow as evidence by the presence of intracerebral gadolinium observed on MRI. To ensure appropriate drug delivery through the catheter, regular pump interrogations will be performed as described above. During pump refills, remaining drug volumes will be aspirated, measured, and compared to the expected remaining volume based on infusion rates. Serial MRIs will be performed to ensure successful delivery of drug to the target tissues.

The only modification that will be made to the lumbar catheter is that roughly 2cm of the proximal end of the closed tipped catheter will be cut off. This modification will remove the multiple draining holes that are found along the length of the first 1.7cm of the catheter. This modification will allow connection of the lumbar catheter to both the intracerebral catheter and infusion pump, thereby creating a closed system with no additional/unintended points of drug efflux. This modification will increase safety, as it will ensure that drug is delivered directly to the desired target area at the tip of the proximal catheter. We do not feel that this modification will increase risk to the patient.

While the lumbar catheter proposed is not approved for use with the Medtronic pump, it has been used in combination with the Synchromed II pump in our preclinical animal experiments without issue. The outer diameter of the proposed catheter is 1.5mm and the inner diameter is 0.7mm. This catheter has been used during preclinical pig experiments. A secure connection between the catheter tubing and the Synchromed II port is able to be formed without slippage of the catheter.

However, the main risk of using this catheter with the synchromed pump would be a catheter-pump disconnection. This risk is mitigated by tying a 2-0 silk suture around the connection site and securing it with tight surgical knots. This technique has been used in the pig experiments and no instances of catheter-pump disconnections occurred. To further mitigate risk of catheter pump disconnection, an excess loop of catheter will be left in the shunt pocket to allow for additional slack on the catheter thereby preventing tension from being placed on the catheter-pump connection.

Anesthesia:

Patients undergoing general anesthesia will be subjected to associated risks including pneumothorax, pneumonia, airway injury, hypotension, myocardial infarction, stroke, hepatic and renal injury and death. These risks will be discussed with the patient prior to enrollment by the primary surgeon/investigator as well as immediately prior to surgery by the anesthesia team.

Infection:

The probability of postoperative wound infection is increased due to immune suppression by steroids, which occurs in patients with brain tumors. All patients will be treated perioperatively and during the infusion with appropriate antibiotics per the discretion of the neurosurgeon. For patients with external catheter infusions, there is increased risk of meningitis/encephalitis due to skin flora tracking down the catheter and into the brain. In order to prophylaxis against meningitis/encephalitis, patients will continue to receive appropriate antibiotics per the discretion of the neurosurgeon, preferably 1 gram of IV cefazolin every 12 hours, plus or minus one hour, until the catheter is removed. For patients who are allergic to penicillin/cephalosporins, IV vancomycin will be used (dosing based on individual patient weight and renal function) or another appropriate antibiotic.

Elevated intracranial pressure:

Intracranial pressure falls under the category of events not described adequately by CTCAE and can be therefore be recorded by the investigator by severity (mild, moderate, severe, life-threatening). All events are evaluated and recorded for duration, and relation to study medication infusion (unrelated, unlikely, possible, probable, definite).

Given that brain tumor patients often present with symptoms and signs of increased intracranial pressure (ICP), increased intracranial pressure is classified as a preexisting condition which will be recorded as an adverse event if the frequency, intensity, or if the character of the condition worsens during the study period. Patients demonstrating evidence of *mild increased intracranial pressure* from baseline may be *treated with high doses of dexamethasone* prior to, during, and following the drug treatment. Patients with signs of *moderate increased intracranial pressure* from baseline may be *treated with high doses of dexamethasone* plus intravenous hypertonic saline prior to, during, and following the drug treatment. Patients with signs of *severe to severe increased intracranial pressure* from baseline may be *treated with high doses of dexamethasone*, intravenous hypertonic saline and mannitol as needed to reduce ICP during toxin infusions.

Infusion may be stopped if patients demonstrate signs of severe to life-threatening increased intracranial pressure following adjunct administration of high dose dexamethasone, hypertonic saline and mannitol. Patient may resume infusion at standard rate of infusion upon resolution of event and return to baseline ICP score has been achieved based on clinical and radiologic parameters (neurologic examination, MRI scan, and normalization of laboratory values.) If symptoms fail to abate following discontinuation of the infusion, CT or MR scan may be performed to evaluate for hemorrhage/edema. If symptoms remain unmanageable by medications, craniotomy may be performed.

Except for the infusion of TPT and gadolinium into the tumor, and MRI imaging of the infusion process, all procedures and treatments participants will experience during the care of their brain tumor are non-investigational; the types of medical treatments, procedures, and tests they experience will be Standard of Care for patients with brain tumors.

Patient Evaluation Procedures:

The evaluation of patients before and after Topotecan treatment should entail little risk. Blood testing requires a simple venipuncture to remove blood samples with minimal risk of peripheral nerve damage or wound infection. Idiosyncratic and allergic reactions to gadolinium for MRI scans are possible, but occur rarely and are usually self-limited.

Radiation:

The risks involved in exposure to the amount of radiation delivered during head CTs are very low. Patients will be counseled to monitor and minimize their cumulative radiation exposure.

<u>Unknown risks:</u>

There may as yet be unknown risks associated with the drug treatment not determined by preclinical studies. Neurological deficits are possible secondary to direct brain toxicity. The nature of these deficits would be dependent on the location of the tumor and infusion volume.

10.2 Definitions

Adverse Event:

An adverse event (AE) is any untoward or unfavorable medical occurrence in a human subject, including abnormal sign, symptom or disease, temporally associated with the subject's participation in research, whether or not considered related to the subject's participation in the research. Abnormal results of a procedure are considered to be adverse events if the abnormality:

- results in study withdrawal
- is associated with a serious adverse event
- is associated with clinical signs or symptoms
- leads to additional treatment or to further diagnostic tests
- is considered by the investigator to be of clinical significance

Serious Adverse Event:

Adverse events are classified as serious or non-serious. A serious adverse event is any AE that is:

- fatal
- life-threatening
- requires inpatient hospitalization/prolongation of existing hospitalization, unless:
 - o routine treatment or monitoring of the studied indication, not associated with any deterioration in condition (procedures such as central line placements, paracentesis, pain control)
 - o elective or pre-planned treatment for a pre-existing condition that is unrelated to the indication under study and has not worsened since the start of study drug
 - o treatment on an emergency outpatient basis for an event not fulfilling any of the definitions of an SAE given above/below and not resulting in hospital administrations
 - o social reasons and respite care in the absence of any deterioration in the patient's general condition
- results in persistent or significant disability or incapacity
- a congenital anomaly or birth defect
- an important medical event

Important medical events are those that may not be immediately life threatening, but are clearly of major clinical significance. They may jeopardize the subject, and may require intervention to prevent one of the other serious outcomes noted above. For example, drug overdose or abuse, a seizure that did not result in in-patient hospitalization or intensive treatment of bronchospasm in an emergency department would typically be considered serious.

All adverse events that do not meet any of the criteria for serious events should be regarded as non-serious adverse events.

Unanticipated Problem:

An unanticipated problem is any incident, experience or outcome involving risks to subjects or others in any human subjects research that meets all of the following criteria:

- Unexpected (in terms of nature, severity or frequency) given (a) the research procedures that are described in the IRB-approval protocol and informed consent document, and (b) the characteristics of the subject population being studied;
- Related or possibly related to participation in such research (e.g., there is a reasonable possibility that the incident, experience or outcome may have been caused by the procedures involved in such research); and
- Suggests that the research places subjects or others at a greater risk of harm (including physical, psychological, economic or social harm) than was previously known or recognized.

Adverse Event Reporting Period

The study period during which adverse events must be reported is normally defined as the period from the initiation of any study procedures (e.g., after the first dose of study treatment) to the end of the study treatment (e.g., last dose of study treatment) and/or follow-up. For this study, the study treatment follow-up is defined as 30 days following the last administration of study treatment, or 30 days following the decision to remove the subject from study treatment, whichever is earliest.

Baseline/Preexisting Condition

A baseline/preexisting condition is one that is present at the start of the study. A preexisting condition should be recorded as an adverse event if the frequency, intensity, or if the character of the condition worsens during the study period.

General Physical Examination Findings

At screening, any clinically significant abnormality should be recorded as a preexisting condition. At the end of the study, any new clinically significant findings/abnormalities that meet the definition of an adverse event must also be recorded and documented as an adverse event.

Post-study Adverse Event

All unresolved adverse events should be followed by the investigator until the events are resolved, the subject is lost to follow-up, or the adverse event is otherwise explained. At the last scheduled visit, the investigator should instruct each subject to report any subsequent event(s) that the subject, or the subject's personal physician, believes might reasonably be related to participation in this study.

Abnormal Laboratory Values

A clinical laboratory abnormality should be documented as an adverse event if any one of the following conditions is met:

- The laboratory abnormality is not otherwise refuted by a repeat test to confirm the abnormality
- The abnormality suggests a disease and/or organ toxicity
- The abnormality is of a degree that requires active management (e.g., change of dose, discontinuation of the drug, more frequent follow-up assessments, further diagnostic investigation, etc.).

Hospitalization, Prolonged Hospitalization or Surgery

Any adverse event that results in hospitalization or prolonged hospitalization should be documented and reported as a serious adverse event unless specifically instructed otherwise in this protocol. Any condition responsible for surgery should be documented as an adverse event if the condition meets the criteria for an adverse event.

Neither the condition, hospitalization, prolonged hospitalization, nor surgery are reported as an adverse event in the following circumstances:

- Hospitalization or prolonged hospitalization for diagnostic or elective surgical procedures for a preexisting condition. Surgery should not be reported as an outcome of an adverse event if the purpose of the surgery was elective or diagnostic and the outcome was uneventful.
- Hospitalization or prolonged hospitalization required to allow efficacy measurement for the study.

- Hospitalization or prolonged hospitalization for therapy of the target disease of the study, unless it is a worsening or increase in frequency of hospital admissions as judged by the clinical investigator.
 - Prolonged stay at CUMC or NeuroICU at the Investigator's discretion unless it is for an adverse event that otherwise qualifies as an SAE.

10.3 Recording of Adverse Events

At each contact with the subject, the investigator must seek information on adverse events by specific questioning and, as appropriate, by examination. Information on all adverse events should be recorded immediately in the source document, and also in the appropriate adverse event module of the case report form (CRF). All clearly related signs, symptoms, and abnormal diagnostic procedures results should be recorded in the source document, though should be grouped under one diagnosis.

All adverse events occurring during the study period must be recorded. The clinical course of each event should be followed until resolution, stabilization, or until it has been determined that the study treatment or participation is not the cause. Serious adverse events that are still ongoing at the end of the study period must be followed up to determine the final outcome. Any serious adverse event that occurs after the study period and is considered to be possibly related to the study treatment or study participation should be recorded and reported immediately.

The investigator will make every effort to determine the relationship of each AE to: surgical procedure, CED, topotecan, and gadolinium. Causality should be assessed using the following categories: not related, unlikely, possible, probable, and definite.

10.4 Reporting of Serious Adverse Events

10.4.1 IRB Notification by Sponsor-Investigator

Reports of all events (including follow-up information) that meet the definition of an unanticipated and serious problem posing risk to subjects or others must be submitted to the IRB within 5 business days following the occurrence of the unanticipated problem or the principal investigator's acquiring knowledge of the unanticipated problem in accordance with IRB policy. Additionally, the sponsor-investigator will submit a summary of all Unanticipated problems that occurred since the beginning of the study at the time of continuing review. Unanticipated events that are not considered serious adverse events, will be reported at the time of continuing review. Copies of each report and documentation of IRB notification and receipt will be kept in the Regulatory binder.

10.4.3 FDA Notification by Sponsor-Investigator

The Columbia University Medical Center Sponsor-Investigator, as holder of the IND, will be responsible for all communication with the FDA. Columbia University Medical Center Principal Investigator will report to the FDA, regardless of the site of occurrence, any adverse event that is serious, unexpected and there is evidence to suggest a causal relationship between the drug and

the adverse event. These must be reported to the FDA and any affiliate sites as soon as possible, but in no case later than 15 calendar days after the sponsor determines that the information qualifies for reporting. The Sponsor-Investigator will also submit an IND annual report to the FDA in accordance with 21.CFR 312.33.

The Columbia University Medical Center Sponsor Investigator must report to the FDA and any affiliate site investigators as follows:

- Any unexpected fatal or life-threatening event must be reported as soon as possible, but no later than 7 calendar days after the sponsor investigator initial receipt of the information
- Any findings from epidemiological studies, pooled analysis of multiple studies, or clinical studies, whether or not conducted under an IND, and whether or not conducted by the sponsorinvestigator, that suggest a significant risk in humans exposed to the drug must be reported as soon as possible but no later than 15 calendar days after the sponsor-investigator determines that the information qualifies for reporting
- Any findings from animal or in vitro testing whether or not conducted under an IND, and whether or not conducted by the sponsor-investigator, that suggest a significant risk in humans exposed to the drug must be reported as soon as possible but no later than 15 calendar days after the sponsor-investigator determines that the information qualifies for reporting
- Any clinically important increase in the rate of a serious suspected adverse reactions over that listed in the protocol or Investigator Brochure
- Expected SAEs and AEs will be included in the IND Annual Reports.

Follow-up information to a safety report should be submitted as soon as the relevant information is available. However, if the results of a sponsor's investigation show that an adverse drug experience not initially determined to be reportable are so reportable, the sponsor investigator must report such experience as soon as possible, but no later than 15 calendar days after the determination is made.

All other serious unexpected experiences associated with the use of the study treatment will be reported to FDA as soon as possible but in no event later than 15 calendar days after initial receipt of the information.

10.4.4 DSMC Reporting by the Sponsor Investigator

Serious adverse events not constituting unanticipated problems are to be reported to the HICCC DSMC. Reporting should occur within 24 hours of knowledge of the SAE occurring at our institution or affiliate sites.

10.4.5 Reporting to Drug Manufacturer by Sponsor-Investigator

The Sponsor-Investigator will any serious adverse events that meet the reporting criteria to the Institutional Review Board and DSMC as described above. Since drug stock is being purchased directly from commercial entities, there is no need for adverse event reporting directly to the drug manufacturer.

10.5 Reporting Process

Adverse events may be submitted on FDA Form 3500A, the HICCC DSMC Serious Adverse Event Reporting Form, or in a narrative format. If supplied as in a narrative format, the minimum information to be supplied is noted above at the beginning of section 10.

11 PHARMACEUTICAL INFORMATION

Study Drugs

11.1 <u>Description</u>

The infusate administered to the patient consists of 146uM Topotecan (TPT, Hycamtin, Novartis, GalaxoSmithKlein) and approximately 1:100 Gadolinium.

Due to variability of the molecular weight of topotecan depending on the manufacturer the pharmacist preparing the infusate will need to calculate the micrograms/hour rate for each pulse which must then be verified by an investigator prior to filling and programming the pump.

11.2 Treatment Regimen

In each pulse cycle, patients will receive 200uL/hr of 146uM topotecan for 48 hours (daily volume = 4.8 mL; total volume = 9.6 mL) followed by between five to seven days of therapy holiday during which the pumps will be set at the minimum programmable rate (2uL/hr; 5-7 day volume = 0.24-0.336mL). This cycle will be repeated two more times. After three complete cycles, patients will receive a fourth and final pulse at the same infusion rate (200uL/hr for 48 hours, plus or minus 6 hours). After this fourth dose, patients will be taken to the OR for pump removal and tumor resection as described. Once infusions are initiated, they will be carried out over a total of approximately 23-29 days. Four 48-hour infusion pulses at 200uL/hr will be administered for a total volume infused of 38.4 mL. When accounting for the near negligible volume delivered while the pump is placed at minimum performance rate (0.048mL/day for 15-21 days), a combined total volume of 39.12-39.41mL will be infused. Gadolinium will not be included in the CED infusion during the second and third infusion cycles; during this time TPT will be infused alone. The reason for including possible variability in the length of each infusion holiday (5-7 days) is that it will allow investigators to ensure that all surgical procedures, including pump removals, tumor resections, pump refills, as well as infusion initiations occur during weekdays when all staff members and support personnel are available to provide appropriate safety monitoring.

Volume or dose deviations of 10% or less are not considered protocol violations.

11.3 Method for Assigning Subjects to Treatment Groups

Not applicable.

11.4 <u>Preparation and Administration of Study Drug</u>

The topotecan and gadolinium will be purchased, stored, prepared and dispensed by the CUMC Research Pharmacy (contact number: 212.305.1965).

11.5 <u>Subject Compliance Monitoring</u>

Patients will be hospitalized for the initial catheter implantation, each 48-hour active drug infusion, and for final tumor resection. To avoid infection complications associated with prolonged hospitalization patients, if medically stable and per investigator discretion, the patient may elect to be discharged during each of the 5-7 day infusion holidays. Pumps will be re-filled percutaneously prior to each new 48-hour pulse of TPT (3 refills total). Re-filling the pump prior to Day 0 of a pulse due to pharmacy availability is allowed and will not affect drug stability. Patients will be monitored throughout the infusion process. Compliance is not expected to be an issue in this study.

11.6 <u>Prior and Concomitant Therapy</u>

No concomitant medicine or therapies for treatment of recurrent glioma are permitted while the patient is enrolled in this study.

11.7 <u>Packaging</u>

Topotecan will be purchased from commercial stock and packaged/labeled accordingly and in compliance with CUMC Research Pharmacy procedures.

11.8 Blinding of Study Drug

Since this is a phase Ib study, in which the primary goal is monitoring safety of therapy, there is no need for blinding.

11.9 <u>Receiving, Storage, Dispensing and Return</u>

11.9.1 <u>Receipt of Drug Supplies</u>

The topotecan will be purchased, stored, prepared and dispensed by the CUMC Research Pharmacy (contact number: 212.305.1965).

11.9.2 Storage

Topotecan should be kept in a secure place in the CUMC research Pharmacy under appropriate storage conditions according to manufacturer guidelines and USP requirements. Study drug will be handled in accordance with institutional policies for appropriate handling and disposal of antineoplastic agents.

11.9.3 <u>Dispensing of Study Drug</u>

Regular study drug reconciliation will be performed to document drug assigned, drug consumed, and drug remaining. This reconciliation will be logged on the drug reconciliation form, and signed and dated by the study team.

11.9.4 Return or Destruction of Study Drug

Unused drug vials will be returned to the pharmacy and destroyed on site. Excess topotecan will be destroyed in accordance with institutional polices for appropriate disposal of antineoplastic agents. At the completion of the study, there will be a final reconciliation of drug shipped, drug consumed, and drug remaining. This reconciliation will be logged on the drug reconciliation form, signed and dated. Any discrepancies noted will be investigated, resolved, and documented prior to return or destruction of the study drug.

11.10 Other Agent(s)

<u>Product description</u>: Gadolinium is a widely available, low cost MR contrast agent that is technically and economically feasible to use, and is routinely used intravenously in clinical practice.

Solution preparation (how the dose is to be prepared): The gadolinium will be used at a dilution of approximately 1:100.

Storage requirements: The original gadolinium solution will be stored in the Research Pharmacy at a temperature of 20-25^o C. The 1:100 dilution will be prepared fresh prior to being loaded in the pump.

Stability: The original form as well as the final diluted gadolinium is stable.

Route of administration:

Gadolinium will be administered in conjunction with topotecan by convection enhanced delivery at approximately 200uL/hr during the first and fourth cycles of infusion.

12 STUDY CALENDAR

An enumerated list of chronological study procedures has been provided below. Please see Appendix A – Study Calendar.

MRI: Specific imagining acquisition instructions are provided in a separate imaging reference guide. MRI scans not performed for any reason will not be considered violations of the protocol. Additional imaging will be performed at the PI's discretion.

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Pre-study (14 days or less before registration unless specified otherwise elsewhere in this document):

- 1. Patient recruited
- 2. Enrollment criteria verified
- 3. Informed consent signed
- 4. MRI with and without IV contrast (within 30 days of enrollment)
- 5. PET (Brain) FDG-F18 (within 30 days of enrollment)
- 6. Pre-study information collected
 - a. Medical history
 - b. Physical exam
 - c. Vital signs
 - d. Height
 - e. Weight
 - f. Performance status (KPS)
 - g. Neurocognitive assessment preformed
 - h. Quality of life assessments performed
 - i. Basic labs/preop testing collected and reviewed
 - i. CBC with differential
 - ii. Coagulation studies (INR/PT/PTT)
 - iii. Serum chemistry (BMP and hepatic function panel)
 - iv. EKG (as indicated by primary care physician/anesthesiology)
 - v. Urine B-HCG for women of childbearing potential

Procedure:

- 1. MRI with and without IV contrast for intraoperative navigation
- 2. Stereotactic biopsy performed
 - a. If intraoperative pathology consistent with glioma recurrence, proceed to 3
 - b. If intraoperative pathology not clearly demonstrative of active tumor/recurrent high grade glioma, patient will be deemed inevaluable and removed from trial and replaced. Surgery will be stopped and no catheter will be implanted Remainder of care will be dictated by primary surgeon and neuro-oncologist.
- 3. Catheter placement
 - a. Proximal catheter placed into tumor
 - b. Medtronic Synchromed II pump (prefilled with study drug) implanted subcutaneously
 - c. Infusion initiated (Tpt+gadolinium) at rest rate

Implant Recovery:

1. Patient spends approximately 1-7 days post operatively in Neuro ICU in accordance with standard postoperative care. More time in the ICU may be required, per the discretion of the neurosurgeon and Neuro ICU team.

- 2. Postoperative day 0 or 1: MRI with and without IV contrast performed to confirm catheter placement prior to infusion initiation
- 3. Patient transferred out of Neuro ICU once stable
- 4. Assessments performed at any time during implant recovery and prior to Pulse 1 Day 0:
 - i. Physical exam
 - ii. Vitals
 - iii. CBC with differential
 - iv. Serum chemistry (BMP and hepatic function panel)

Adverse event evaluation and concomitant medication review

Infusion pulse #1:

- 1. Infusion day 0:
 - a. Active Infusion initiated (Tpt+Gadolinium)
 - b. MRI without IV contrast performed at 8 hours (plus or minus 2 hours) and 14 hours (plus or minus 2 hours) post infusion initiation
 - c. Assessments performed at any time on infusion day 0:
 - i. Physical exam
 - ii. Vitals
 - iii. Performance status
 - iv. CBC with differential
 - v. Coagulation panel: PT/PTT/INR
 - vi. Serum chemistry (BMP and hepatic function panel)
 - vii. Adverse event evaluation and concomitant medication review

2. Infusion day 1:

- a. MRI without IV contrast performed at 24 hours, plus or minus 6 hours, post infusion initiation
- b. Assessments performed at any time on infusion day 1
 - i. Physical exam
 - ii. Vital signs
 - iii. CBC with differential
 - iv. Coagulation panel: PT/PTT/INR
 - v. Serum chemistry (BMP and hepatic function panel)
 - vi. Adverse event evaluation and concomitant medication review

3. Infusion day 2:

- a. MRI without IV contrast performed at 48 hours, plus or minus 6 hours, post infusion initiation
- b. Infusion turned down to rest rate
- c. Assessments performed at any time on infusion day 2
 - i. Physical exam
 - ii. Vital signs
 - iii. Performance status
 - iv. Neurocognitive assessment

- v. Quality of life assessment
- vi. Adverse event evaluation and concomitant medication review

Rest phase #1: (lasting 5-7 days):

- 1. Infusion remains at rest rate
- 2. Rest day 0, post completion of pulse 1
 - a. MRI without IV contrast performed at 8 hours (plus or minus 2 hours) and 14 hours (plus or minus 2 hours) post infusion completion, rest day 0
- 3. Rest day 1, post completion of pulse 1
 - a. MRI without IV contrast performed at 24 hours, plus or minus 6 hours, post infusion completion, rest day 1
- 4. Rest day 2, post completion of pulse 1
 - a. PET (Brain) FDG F18 @ 48 hours plus or minus 6 hours, post-infusion completion Patient evaluated for discharge and discharged home at the investigator's discretion. Patient may stay at home for remainder of rest phase.

Infusion pulse #2:

- 1. Patient admitted to CUMC
- 2. MRI with and without IV contrast performed prior to restarting infusion
- 3. Pump refilled (Topotecan only, no gadolinium), interrogated, and reprogrammed
- 4. Pump reprogrammed to active infusion rate
- 5. Infusion continues for 48 hours, plus or minus 6 hours, while patient remains inpatient
- 6. Assessments to be performed at any time on the days indicated on the study calendar.
 - a. Physical exam
 - b. Vital signs
 - c. Performance status
 - d. Adverse event evaluation and concomitant medication review
- 7. MRI with and without IV contrast performed at 48 hours, plus or minus 6 hours, post infusion initiation
- 8. Infusion turned down to rest rate after completion of MRI
- 9. Patient evaluated for discharge and discharged home at the investigator's discretion

Rest phase #2: (lasting 5-7 days)

- 1. Infusion remains at rest rate
- 2. Patient may remain home at this time

Infusion pulse #3:

- 1. Patient admitted to CUMC
- 2. MRI with and without IV contrast performed prior to restarting infusion
- 3. Pump refilled (Topotecan only, no gadolinium), interrogated, and reprogrammed
- 4. Pump reprogrammed to active infusion rate
- 5. Infusion continues for 48 hours, plus or minus 6 hours, while patient remains inpatient
- 6. Assessments to be performed at any time on the days indicated on the study calendar

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- a. Physical exam
- b. Vital signs
- c. Performance status
- d. Adverse event evaluation and concomitant medication review
- 7. MRI with and without IV contrast performed at 48 hours, plus or minus 6 hours, post infusion initiation
- 8. Infusion turned down to rest rate
- 9. Patient evaluated for discharge and discharged home at the investigator's discretion

Rest phase #3: (lasting 5-7 days)

- 1. Infusion remains at rest rate
- 2. Patient may remain at home at this time

Infusion pulse #4:

- 1. Patient admitted to CUMC
- 2. MRI with and without IV contrast performed prior to restarting infusion
- 3. Pump refilled (Topotecan+Gadolinium), interrogated, and reprogrammed
- 4. Pump reprogrammed to active infusion rate
- 5. Infusion continues for 48 hours, plus or minus 6 hours, while patient remains inpatient
- 6. Assessments to be performed at any time on the days indicated on the study calendar with the exception of the neurocognitive and quality of life assessments which should be performed prior to pulse 4 infusion start.
 - a. Physical exam
 - b. Vital signs
 - c. Performance status
 - d. Neurocognitive assessment
 - e. Quality of life assessment
 - f. Adverse event evaluation and concomitant medication review
 - g. Preop labs (CBC with differential, BMP, coagulation panel (PT, INR, PTT), and hepatic function panel) drawn once
- 7. PET (Brain) FDG-F18 Infusion day 1 @ 24 hours +/- 12 hours post initiation of infusion
- 8. MRI without IV contrast performed at 48 hours, plus or minus 6 hours, post infusion initiation
- 9. Infusion turned off
- 10. Patient returns to OR
 - a. Stereotactic biopsies performed
 - b. Tumor resection
 - c. Pump removal
- 11. Patient admitted to NeuroICU

Patient remains in NeuroICU for 24-48 hours postop for routine care, more time may be required in the ICU, per the discretion of the Neurosurgery and ICU teams.

Post-infusion/Post-operative day 1 or 2:

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- 1. MRI with IV contrast performed post op day 1 for assessment of extent of resection
- 2. Assessments performed on post-infusion/post-operative day 1:
 - a. Physical exam
 - b. Vital signs
 - c. Adverse event evaluation and concomitant medication review
 - d. CBC with differential
 - e. Coagulation panel: PT/PTT/INR
 - f. Serum chemistry (BMP and hepatic function panel)

Post-infusion/Post-operative day 3:

- 1. Assessments performed on post-infusion/post-operative day 3:
 - a. Neurocognitive assessment to be performed within 72 hours plus or minus 24 hours post-infusion/post-op window
 - b. Quality of life assessment to be performed within 72 hours plus or minus 24 hours post-infusion/post-op window

Post-infusion week 1-2:

- 1. Follow up office visit
- 2. Assessments performed for this visit:
 - a. Physical exam
 - b. Vital signs
 - c. Weight
 - d. Performance status
 - e. Neurocognitive assessment
 - f. Quality of life assessment
 - g. Adverse event evaluation and concomitant medication review
 - h. CBC with differential
 - i. Serum chemistry (BMP and hepatic function panel)

Post-infusion week 4-6:

- 1. Follow up office visit
- 2. Assessments performed for this visit:
 - a. MRI with IV gadolinium contrast
 - b. Physical exam
 - c. Vital signs
 - d. Weight
 - e. Performance status
 - f. Neurocognitive assessment
 - g. Quality of life assessment
 - h. Adverse event evaluation and concomitant medication review
 - i. CBC with differential
 - j. Serum chemistry (BMP and hepatic function panel)

- Every 3-6 months thereafter:
 1. Phone call for survival assessment
 - 2. Remainder of care per primary clinical team

MEASUREMENT OF EFFECT

13.1 <u>Antitumor Effect – Solid Tumors</u>

For the purposes of this study, patients should be re-evaluated for response by MRI 4-6 weeks following cessation of drug infusion. Thereafter, patients will have usual physician follow-up, in which further MRIs will be performed based on their primary neurologist/neurosurgeon's recommendations In addition to a baseline MRI scan, confirmatory scans should also be obtained at the following timepoints: immediately following placement of the infusion catheter (surgery day), Pulse 1 Day 2, Pulse 4 Day 2, 1 day post resection, 4-6 weeks following drug termination, and then as recommended by the primary treating physician. Response and progression will be evaluated in this study using the international criteria proposed by the updated Response Assessment in Neuro-oncology (RANO) guidelines [38].

Measurement of response will be based upon the volume of contrast enhancing lesion in the treatment area. If the MRI remains unclear as to whether the increase in enhancement volume is due to tumor progression vs. inflammatory change, a biopsy may be performed to make a definitive diagnosis. In order to categorize a response as stable or responding, patients must be on stable or decreasing dose of steroids. Any response must last a minimum of 4 weeks.

13.2 Disease Parameters

<u>Measurable disease</u>: Measurable lesions are defined as those that can be accurately measured in at least one dimension on T1 weighted MRI of the brain with IV gadolinium enhancement. Furthermore, recurrent high grade gliomas will be confirmed with stereotactic biopsies and intraoperative pathology prior to implantation of the infusion catheter.

<u>Target lesions</u>: Target lesions will be well circumscribed, solitary enhancing lesions within the brain parenchyma. Ideal target lesions for convection enhanced delivery will not have cystic resection cavities or extensive associated central necrosis.

13.3 Methods for Evaluation of Measurable Disease

Measurable disease will be determined from a preoperative T1 weighted brain MRI with IV gadolinium obtained no greater than 48 hours prior to planned implantation of the catheter. Lesions will be measured using hospital radiology tools and viewers as part of the standard assessment performed by neuroradiologists. The number and maximum diameters of the lesions will be recorded.

Prior to implantation of the catheter, stereotactic biopsies will be performed to obtain a sample of enhancing tissue to document the presence of recurrent glioma with intraoperative pathology consult.

13.4 <u>Response Criteria</u>

RANO criteria will be used (Wen PY et al, citation 38), summarized here. Response requires confirmation by repeat imaging at least 4 weeks apart. Non-sustained responses will be characterized as stale disease.

Criterion	CR	PR	SD	PD
1 gadolinium enhancing disease	None	≥ 50% ↓	< 50% ↓ but < 25% ↑	≥ 25% ↑*
C2/FLAIR	Stable or ↓	Stable or ↓	Stable or ↓	↑.
New lesion	None	None	None	Present*
Corticosteroids	None	Stable or ↓	Stable or ↓	NA†
Clinical status	Stable or ↑	Stable or ↑	Stable or ↑	1 -
Requirement for response	All	All	All	Any*

13.4.1 Evaluation of Best Overall Response

The best overall response is the best response recorded from the start of the treatment until disease progression/recurrence The patient's best response assignment will depend on the achievement of both measurement and confirmation criteria.

13.4 Duration of Response

<u>Duration of overall response</u>: The duration of overall response is measured from the time measurement criteria are met for CR or PR (whichever is first recorded) until the first date that recurrent or progressive disease is objectively documented (taking as reference for progressive disease the smallest measurements recorded since the treatment started).

The duration of overall CR is measured from the time measurement criteria are first met for CR until the first date that progressive disease is objectively documented.

<u>Duration of stable disease</u>: Stable disease is measured from the start of the treatment until the criteria for progression are met, taking as reference the smallest measurements recorded since the treatment started, including the baseline measurements.

13.5 <u>Progression-Free Survival (PFS) and Overall Survival (OS)</u>

PFS is defined as the duration of time from start of topotecan treatment to time of progression or death from any cause, whichever occurs first. Overall survival is defined as the duration of time from the start of topotecan treatment to death from any cause.

13.6 Other Response Parameters

Additionally, we attempt to use MRS to monitor response as possible. In our preliminary studies we have seen that maps of normalized choline (Cho), creatine (Cr), N-acetylaspartate (NAA), and lactate (Lac) distributions have correlated well with clinical and radiographic measures of tumor response. There is also considerable evidence in the brain tumor literature that changes in these metabolites, with reduction or elimination of the so-called tumor pattern of proton MRS (elevated Cho, reduced NAA and elevated Lac), correlates well with histologic and clinical response of tumor to therapy. The MRS metabolite maps will be used to assess baseline and immediate post-treatment as well as long term treatment response. These measures may be used to supplement the changes based on T1-weighted contrast enhancement.

13.7 Stopping Rules

The primary endpoint of this study is safety. As such, subjects will be withdrawn from the study as per the guidelines outlined in section 6.5. Should similar toxicities occur in more than one patient, early interruption of the study will be considered.

14 DATA REPORTING / REGULATORY REQUIREMENTS

Adverse event lists, guidelines, and instructions for AE reporting can be found in Section 10.0 (Adverse Events: List and Reporting Requirements).

14.1 Data Collection

The Herbert Irving Comprehensive Cancer Center has an electronic clinical trials and data management system (CTMS) that will be used for data collection. CRFs for the study will be built into the CTMS for data entry. The system has full auditing capabilities which is web-based and housed on a server in a fully HIPAA compliant server room with restricted access and video camera monitoring. All users must login with their own application username and password. Users off campus must first access the Virtual Private Network with their assigned campus username and password and then use their application credentials. Users are only able to see study information if they are indicated as study personnel in our electronic IRB system. Users are limited to access based on the role assigned in their corresponding protocol. Subject data is entered directly into the system, which (in the case of Columbia subjects) confirms the correct identity of patients via an interface with the electronic medical patient index. Staff with the appropriate IRB defined roles can run reports within the system for reporting purposes.

14.2 <u>Data Reporting</u>

Case Report Forms will be completed for each subject enrolled into the clinical study through the CTMS. It is the investigator's responsibility for ensuring that all clinical and laboratory data entered on the corresponding CRFs are complete, accurate and authentic.

14.3 <u>Data and Safety Monitoring Committee</u>

The NCI-approved Data Safety and Monitoring Committee (DSMC) of the Herbert Irving Comprehensive Cancer Center (HICCC) will monitor every subject who receives treatment on this protocol for toxicity. This protocol will adhere to the policies of the currently approved HICCC Data and Safety Monitoring Plan (DSMP), which is in accordance with NCI and CUMC-IRB policy and guidelines. The committee is chair is appointed by the HICCC Director. The committee consists of HICCC faculty and staff with expertise in oncology, research pharmacy, research nursing, and data management. The DSMC convenes twice a month to review patient safety and the conduct of the trial. The PI will submit data and safety monitoring reports to the DSMC at a frequency to be determined by the DSMC based on risk to the subjects.

At the time of renewal, the study team will submit the most recent DSMC approval letter for safety review to the CUMC IRB. Any modifications that are required by the DSMC to ensure patient safety will be submitted to the IRB. All protocol deviations, violations, and eligibility waivers will be submitted to and approved by the DSMC prior to being reported to the IRB. All study data reviewed and discussed during these meetings will be kept confidential.

14.4 Quality Control and Quality Assurance

Independent monitoring of the clinical study for protocol and GCP compliance will be conducted periodically by the CPDM Compliance Core on behalf of the HICCC DSMC. Additionally, the Compliance Oversight Committee of the IRB at Columbia University Medical Center may audit the study at any time per institutional policies and procedures. The investigator-sponsor and Columbia University Medical Center will permit direct access of the study monitors and appropriate regulatory authorities to the study data and to the corresponding source data and documents to verify the accuracy of this data.

A risk-based approach will be used by the Compliance Core to determine the frequency, number of subject charts, and data elements to be monitored. The Compliance Coordinator will review the study status and summarize enrollment, toxicities, SAEs/UPs, dose escalation, statistical endpoints (e.g., stopping rules), etc. for the full DSMC membership at the regularly scheduled meetings.

Internal On-site Monitoring:

- The study Monitoring Visit Log will be completed and signed by the monitor and the PI/CRNP/CRN and/or CRC and will be filed in the regulatory binder.
- The Compliance Coordinator will communicate with the site coordinator/Site Principle Investigator to schedule the monitoring visit and arrange for access to study materials and documentation.

• The assigned Compliance Coordinator will monitor IIT trials within 1 month after the first subject is enrolled and throughout the life of the study to ensure that the study is being conducted in accordance with the protocol, GCP, applicable federal and local regulations, and per all applicable SOPs. The Compliance Coordinator is responsible to notify the PI and CRNP/CRN/CRC of upcoming monitor visits and convey what information and documentation will be required for the visit(s). The Compliance Coordinator is responsible for verifying that informed consent is properly obtained, eligibility is met (via the central registration process), and all study procedures are conducted according to the study protocol. The Compliance Coordinator will also verify that the data reported in the CRF's accurately reflect source documents, that all toxicities have been reported to date, and that all SAE's/UPs/deviations/violations have been reported according to local IRB and HICCC DSMC requirements. The Compliance Coordinator will issue queries and ensure resolution in a timely and efficient manner. The Compliance Coordinator will also monitor for applicable regulatory compliance and research pharmacy compliance (if applicable) and communicate any deficiencies as appropriate.

14.5 <u>Confidentiality</u>

Information about study subjects will be kept confidential and managed according to the requirements of the Health Insurance Portability and Accountability Act (HIPAA). Those regulations require a signed subject authorization informing the subject of the following:

- What protected health information (PHI) will be collected from subjects in this study
- Who will have access to that information and why
- Who will use or disclose that information
- The rights of a research subject to revoke their authorization for use of their PHI.

In the event that a subject revokes authorization to collect or use PHI, the investigator, by regulation, retains the ability to use all information collected prior to the revocation of subject authorization. For subjects that have revoked authorization to collect or use PHI, attempts should be made to obtain permission to collect at least vital status (e.g., that the subject is alive) at the end of their scheduled study period.

The subject binders will be maintained with in the CPDM offices, a secured floor within the Herbert Irving Pavilion and only the investigator and study staff will have access to the file.

14.6 Source Documents

Source data is all information, original records of clinical findings, observations, or other activities in a clinical trial necessary for the reconstruction and evaluation of the trial. Source data are contained in source documents Examples of these original documents, and data records include: hospital records, clinical and office charts, laboratory notes, memoranda, subjects' diaries or evaluation checklists, pharmacy dispensing records, recorded data from automated instruments, copies or transcriptions certified after verification as being accurate and complete, microfiches, photographic negatives, microfilm or magnetic media, x-rays, subject files, and records kept at the pharmacy, at the laboratories, and at medico-technical departments involved in the clinical trial.

14.7 <u>Case Report Forms</u>

The study case report form (CRF) is the primary data collection instrument for the study. All data requested on the CRF will be recorded. All missing data will be explained. If a space on the CRF is left blank because the procedure was not done or the question was not asked, "N/D" will be documented. If the item is not applicable to the individual case, "N/A" will be documented.

14.8 <u>Records Retention</u>

Records relating to a specific research activity, including research records collected by investigators, will be maintained for at least three years after completion of the research (45 CFR 46.115(b); 21 CFR 56.115(b); 21 CFR 312.62). This minimum retention period will apply whether or not any subjects were enrolled in the study.

Since this research is FDA regulated, records will be retained for at least two years after approval of the investigational agent by FDA; if it is not approved, records will be retained at least two years after the study is terminated and FDA is notified.

Clinical records, including consent forms that document clinical intervention or clinical diagnostic procedure research-related procedures, will be retained in medical records by the institution for at least seven years, per CUMC and NYP policy which is based on state law.

15 STATISTICAL CONSIDERATIONS

15.1 <u>Study Design/Endpoints</u>

Safety is the main study endpoint. Safety is defined as the dose at which all patients have had no greater than grade 2 adverse reactions possibly, probably, or definitely related to the topotecan. For the purposes of this study, necrosis of tumor and edema which result in neurologic symptoms will not be considered as a safety limitation, as long as symptoms can be adequately controlled by corticosteroids, mannitol, and craniotomy if necessary. Safety will be assessed by evaluation of physical and neurologic examinations, laboratory studies, radiographic studies, and by adverse events. An adverse event is any new or worsening symptom or clinical finding which occurs during the study period which is possibly, probably, or definitely related to study-specific treatment. Adverse events are to be recorded irrespective of causality, on the adverse events form. The current version of the CTCAE will be used. For events not described adequately by the CTCAE, the investigator may record events by severity (mild, moderate, severe, life-threatening). All events will be recorded for duration, and relation to study medication (unrelated, unlikely, possible, probable, definite). Any specific therapy for the adverse event will be recorded. Any serious adverse experience associated with the use of this drug will be reported to Institutional IRB.

15.2 Size/Accrual Rate

Five evaluable patients will be accrued for this study. Since radiation necrosis (also called pseudoprogression or treatment effect) is difficult to distinguish from true tumor recurrence

intraoperatively on frozen section, it is likely that several patients meeting enrollment criteria will not have biopsy confirmed tumor at the time the initial study biopsy is taken. Such patients will not be considered evaluable and will not actively enter the treatment phase of the study. As such, anticipated enrollment in the study must be greater than 5 to ensure that 5 evaluable patients are ultimately identified and treated. Based on rates of radiation necrosis, which are roughly 10% of reoperations[26], we will initially cap enrollment at 10 patients, and enrollment will stop when 5 evaluable patients have been obtained. Thus we will have an initial enrollment of 10 patients total (barring any early stopping rule concerns as outlined in section 5.5), and a maximum of 5 evaluable patients that undergo catheter implantation and complete topotecan infusion. Furthermore, if patients who have catheters placed and infusion initiated fail to complete the full course of infusion for reasons unrelated to treatment toxicity/DLTs, they will be considered inevaluable for the primary endpoint (but evaluable for toxicity), as the primary study endpoint is assessment of infusion safety over a full 23. If a patient's infusion is terminated early for reasons unrelated to treatment toxicity/DLTs, then a new subject will be recruited to replace him/her to ensure a total of 5 evaluable subjects at the completion of the study. If patients are removed from the study as a result of failure to follow up with pre-defined safety follow-up evaluations, they will also be considered inevaluable, as assessment of infusion will not be ascertainable in such patients. As above, such inevaluable patients will be replaced with newly recruited and enrolled evaluable patients. Additional patients may be replaced or accrued at the discretion of the PI in discussion with the DSMC if there is further clarity required to assess safety.

Given our previous experience, we expect to enroll approximately 1-2 patients/month.

15.3 Stratification Factors

N/A

15.4 Analysis of Secondary Endpoints

Anti-tumor effect will be a secondary endpoint of this study and will be analyzed as described in section 13. Furthermore, quality of life will be assessed using 4 questionnaires. All patients enrolled in this study will be administered the following four (4) paper and pencil measures at baseline, prior to receiving their medical treatment, during the pulses and follow-up as indicated on the study calendar. These measures are widely used and well validated and assess the patient's quality of life, in addition to other pertinent symptoms such as fatigue, pain, sleep, mood, etc. All these measures utilize a 5-point Likert-type scale (0 = Not at all; 1 = A little bit; 2 = Somewhat; 3 = Quite a bit; and 4 = Very Much) and the recall period for each question is "during the past 7 days" and this time frame is well comprehended by patients. Each subject's scores on these measures will be compared with their subsequent scores at each follow-up period to closely examine the trajectory of their QoL and symptoms over time while being treated and monitored on this study. Copies of the measures are attached.

- 1. The FACT-Brain: comprised of the FACT-G + Brain Tumor specific concerns
- 2. The FACIT-Fatigue scale
- 3. PROMIS Global health measure

The FACIT Measurement System (Functional Assessment of Chronic Illness Therapy) is a collection of QOL questionnaires targeted to the management of chronic illness. The measurement system, under development since 1987, began with the creation of a generic CORE questionnaire called the Functional Assessment of Cancer Therapy-General (FACT-G). These paper and pencil questionnaires are designed to be brief yet focused to accurately measure the symptoms that cancer patients can experience. The FACT-G (now in Version 4) is a 27-item compilation of general questions divided into four primary QOL domains: Physical Well-Being, Social/Family Well-Being, Emotional Well-Being, and Functional Well-Being. It is considered appropriate for use with patients with any form of cancer, and has also been used and validated in other chronic illness conditions (e.g., HIV/AIDS and multiple sclerosis) and in the general population. The FACT-Br includes a list of 23 additional concerns that brain tumor patients often experience.

The Functional Assessment of Chronic Illness Therapy-Fatigue Scale (FACIT-F Scale) is a 13-item questionnaire that assesses self-reported fatigue and its impact upon daily activities and function. It was developed in 1994-1995 to meet a growing demand for the precise evaluation of fatigue associated with anemia in cancer patients. Subsequent to its development, it has been employed in over 70 published studies including over 20,000 people. Since 1995, studied groups have included cancer patients receiving chemotherapy, cancer patients not receiving chemotherapy, long term cancer survivors, and several other clinical samples.

The PROMIS Global Health items assess health in general (i.e. overall health). The global health items include global ratings of the five primary PROMIS domains (physical function, fatigue, pain, emotional distress, social health) as well as perceptions of general health that cut across domains. Global items allow respondents to weigh together different aspects of health to arrive at a "bottom-line" indicator of their health. Similar global health items have been found predictive of future health care utilization and mortality. The PROMIS Global Health items include the most widely used single self-rated health item ("In general, would you say your health is . . ."). PROMIS Global Health items include specific ratings of physical health and mental health, as well as a rating of overall quality of life. The remaining items provide global ratings of physical function, fatigue, pain, emotional distress, and social health. There is no reporting period specified for these items; current status is inferred.

15.5 Reporting and Exclusions

15.5.1 Evaluation of toxicity

All patients will be evaluable for toxicity from the time of their first treatment with the study drug.

15.5.2 Evaluation of response

Response will be evaluated based on degree of tumor recurrence progression seen on follow up MRIs at 3-months post infusion and MRIs performed thereafter per their primary treating physician. All conclusions should be based on all eligible patients. Subanalyses may then be performed on the basis of a subset of patients, excluding those for whom major protocol deviations have been identified (e.g., early death due to other reasons, early discontinuation of treatment, major protocol violations, etc.).

15.5.3 Pathologically Evaluable

Patient's whose pre-study (via standard of care processes) biopsy material is reviewed as active tumor, consistent with HGG.

16 PROTECTION OF HUMAN SUBJECTS

This study is to be conducted in accordance with applicable government regulations and Institutional research policies and procedures.

This protocol and any amendments will be submitted to a properly constituted Institutional Review Board (IRB), in agreement with local legal prescriptions, for formal approval of the study conduct. The decision of the IRB concerning the conduct of the study will be made in writing to the investigator and a copy of this decision will be obtained before commencement of this study.

All subjects for this study will be provided a consent form describing this study and providing sufficient information for subjects to make an informed decision about their participation in this study. This consent form will be submitted with the protocol for review and approval by the IRB for the study. The formal consent of a subject, using the IRB-approved consent form, must be obtained before that subject is submitted to any study procedure. This consent form must be signed by the subject or legally acceptable surrogate, as outlined in the IRB approved protocol, and the investigator-designated research professional obtaining the consent.

17 PUBLICATION PLAN

Neither the complete nor any part of the results of the study carried out under this protocol, nor any of the information provided by the sponsor for the purposes of performing the study, will be published or passed on to any third party without the consent of the study sponsor. Any investigator involved with this study is obligated to provide the sponsor with complete test results and all data derived from the study.

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