

Assignment 3 Feature Selection

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### Assignment 3 Feature Selection

This experimentation implements the use of feature selection techniques using NaiveBayes and 5-Nearest Neighbor(KNN) learners in comparison with the top 20 feature attributes extracted from feature selections using Information Gain(IG) and Chi-Squared(X2) feature rankers. The following results and analysis of part 1 and part 2 of the assignment are as follows.

#### Part I

Implement the use of Naive Bayes(NB) and 5-Nearest Neighbor(KNN) classifiers with no feature selection measuring the error rate percentages for type I and type II classification errors and RUC under the curve metrics.

#### Part II

Implement the use of the top 20 features using Information Gain (IG) and Chi-Squared (X2) with both NB and KNN classifiers for a total of 4 experiments, while measuring and comparing the error rate percentages for type I and type II classification errors, measuring RUC under the curve metrics, and the root mean square error(RMSE).

#### A summary of the analysis:

Evaluation for Assignment 3 Feature selection techniques compared to non feature selection								
Classifier / Learners	Type I	Type II	Type I Error rate %	Type II Error rate %	Misclassification Rate %	Correctly Classified %	ROC	RMSE
NaiveBayes	11	5	21.70%	15.30%	16.84%	83%	0.844	0.4115
KNN (5)	7	9	39.10%	9.70%	16.8	83%	0.863	0.3573
NaiveBayes +((IG)	6	1	4.30%	8.30%	7.30%	92.63%	0.968	0.2652
KNN (5) +(IG)	6	3	13.00%	8.30%	9.40%	90.50%	0.93	0.2636
NaiveBayes +((X2)	8	1	4.30%	11.10%	9.40%	90.50%	0.978	0.2671
KNN (5) +(X2)	1	7	21.70%	15.30%	16.80%	83.15%	0.844	0.4115

#### Part I

evaluated the results in the experiments with Naive Bayes and K-Nearest Neighbors (5) learners without using feature selection techniques as follows.

#### **NaiveBayes (NB) without feature selection**

The results showed that Naïve Bayes by itself on the genetics dataset had 11 Type I errors and 5 Type II errors with a Type II percentage rate of 15%. Under the classification ROC curve, the performance measurement was 0.844, which is significantly higher than 1 and above 0.5, which indicates well-performed classification. To measure the validity of the classified error rate, I also considered the root mean square error for each instance. The highest score was achieved using Na\*ve, Bayes, alone without feature selection.

#### **K-nearest neighbors (KNN) without feature selection**

On the genetics dataset, K-nearest neighbors (KNN) alone had 7 Type I errors and 9 Type II errors, with a Type II error percentage rate of approximately 10%. The model's balance and performance appeared to be significantly better than that of naive Bayes without carrying out feature selection techniques.

Performance measurement for the classification ROC under the curve was slightly higher with Naive Bayes at 0.863, which is significantly closer to 1 and above 0.5 being considered well-performed. To determine the validity of the classified error rate, I also considered the root mean square error of each instance. Out of all the experiments, K-neighbors (KNN) had the best performance over Naive Bayes alone without feature selection.

### **Part II**

Evaluated the results in the experiments with Naive Bayes and K-Nearest Neighbors (5) learners with feature selection techniques Information Gain(IG) and Chi-Square(X2) as follows.

#### **naive Bayes (NB) with feature selection Information Gain (IG)**

Information Gain (IG) results for a Naive Bayes model with the top 20 attributes selected with the feature selection techniques show 6 Type I errors and 1 Type II error, with a Type II error rate of approximately 8%. The performance measurement for the classification ROC under the curve results was second highest of all experiments at 0.968 which is significantly closer to 1 and above 0.5 is one of the best performances. I also took into consideration the root means square error of each instance to measure the validity of the classified error rate. Naïve Bayes with the feature selection technique (IG) which was the lowest at 0.2652.

#### **K-nearest neighbors (KNN) with feature selection Information Gain (IG)**

K-nearest neighbors (KNN) set to 5-K neighbors with the top 20 attributes selected with the feature selection technique Information Gain (IG) results show 6 Type I errors and 3 Type II errors with the Type II percentage rate of approximately 8%. The performance measurement for the classification ROC under the curve results was 0.93. I also took into consideration the root means square error of each instance to measure the validity of the classified error rate. K-nearest neighbors (KNN) with the feature selection technique (IG) which was RMSE of 0.2636 being lower than that of Naïve Bayes with Information Gain (IG).

#### **naive Bayes (NB) with feature selection Chi Squared (X2)**

Naïve Bayes with the top 20 attributes selected with the feature selection technique Chi-Square (X2) results show 8 Type I errors and 1 Type II error with the Type II percentage rate of approximately 11%. The performance measurement for the classification ROC under the curve results was highest of all experiments at 0.978 which is significantly closer to 1 and above 0.5 being one of the best performances. I also took into consideration the root means square error (RMSE) of each instance to measure the validity of the classified error rate. Naïve Bayes with the feature selection technique Chi-Square (X2) which was the third lowest at 0.2671.

#### **K-nearest neighbors (KNN) with feature selection Chi-Squared (X2)**

K-nearest neighbors (KNN) set to 5-K neighbors with the top 20 attributes selected with the feature selection technique Chi-Square (X2) results show 1 Type I errors and 7 Type II errors with the Type II percentage rate of approximately 15%. The performance measurement for the classification ROC under the curve results was second highest of all experiments at 0.844 which is significantly closer to 1 and above 0.5 being one of the best performances. I also took into consideration the root means square error(RMSE) of each instance to measure the validity of the classified error rate. K-nearest neighbors (KNN) with the feature selection technique Chi-Square (X2) which was the same for Naïve Bayes without feature selection at 0.4115.

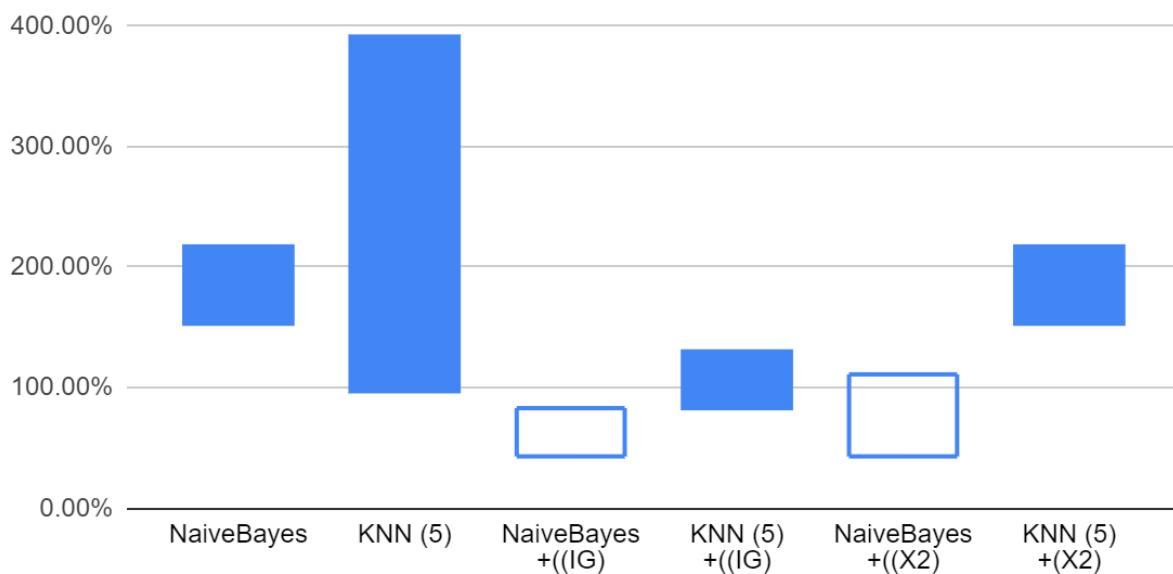
### Results:

These are the feature selection results which show the best performance and over combination of learners with feature selections techniques given for this experiment. Overall, the Naive Bayes outperformed all other classifiers with the feature selector Information gain(IG). This approach has the primary purpose of determining the importance of an attribute, which determines the attribute's position in a decision tree. Furthermore, the Type II error rate was the exact same as the Type II error rate for 5K-Nearest Neighbors learner with (IG) feature selector at approximately 8.30%. The data also shows Naive Bayes with (IG) has the lowest misclassification rate of 7.30%, the second highest ROC performance measure of 96.8% compared to Naive Bayes with (X2) and has the lowest RMSE of 0.2652

Evaluation for Assignment 3 Feature selection techniques compared to non feature selection								
Classifier / Learners	Type I	Type II	Type I Error rate %	Type II Error rate %	Misclassification Rate %	Correctly Classified %	ROC	RMSE
NaiveBayes	11	5	21.70%	15.30%	16.84%	83%	0.844	0.4115
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This chart demonstrates the overall Type I and Type II error rates with Naive Bayes (IG) as best performing and most accurate with 20 features selected.

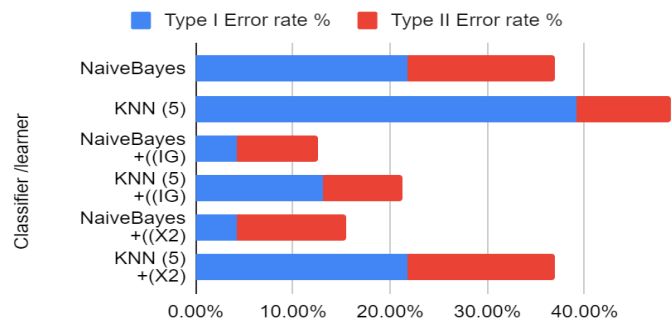
### Type I and Type II Error rate % Evaluation



Classifiers without feature selection compared to (IG) and (X2) Feature selection

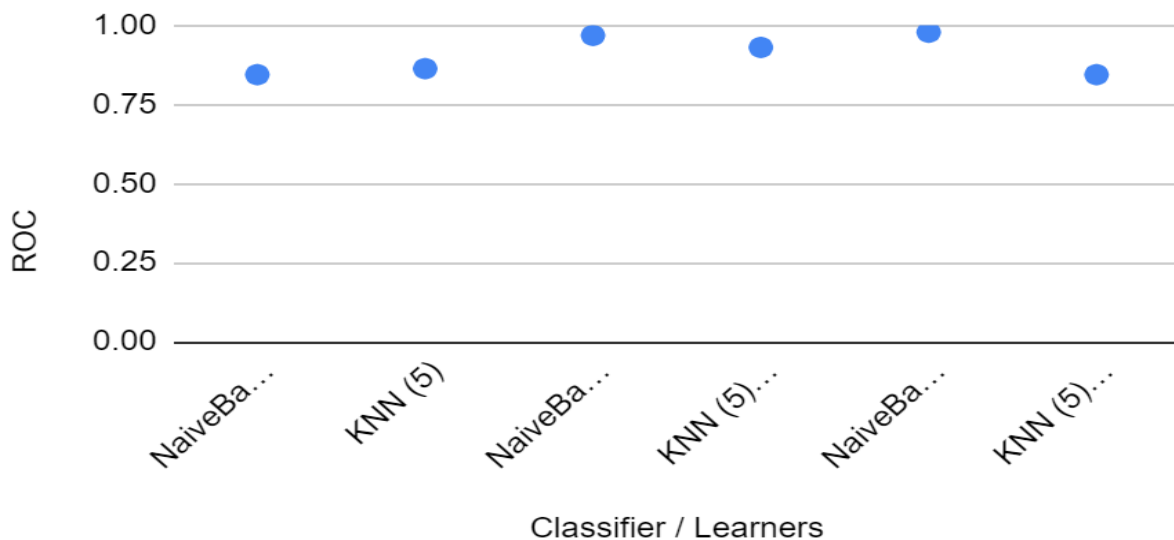
We see with the following chart comparison of Naive Bayes using (IG) having the lowest Type I and Type II error rate percentages overall compared to the highest error rates with non-feature selection techniques using the (5)K-Nearest neighbors learner. When we compare only those learners with feature selection techniques, we see that the (5)K-Nearest neighbors' learner with (X2) performed worse than Naive Bayes using (IG).

Type I & Type II Error rate % Comparison



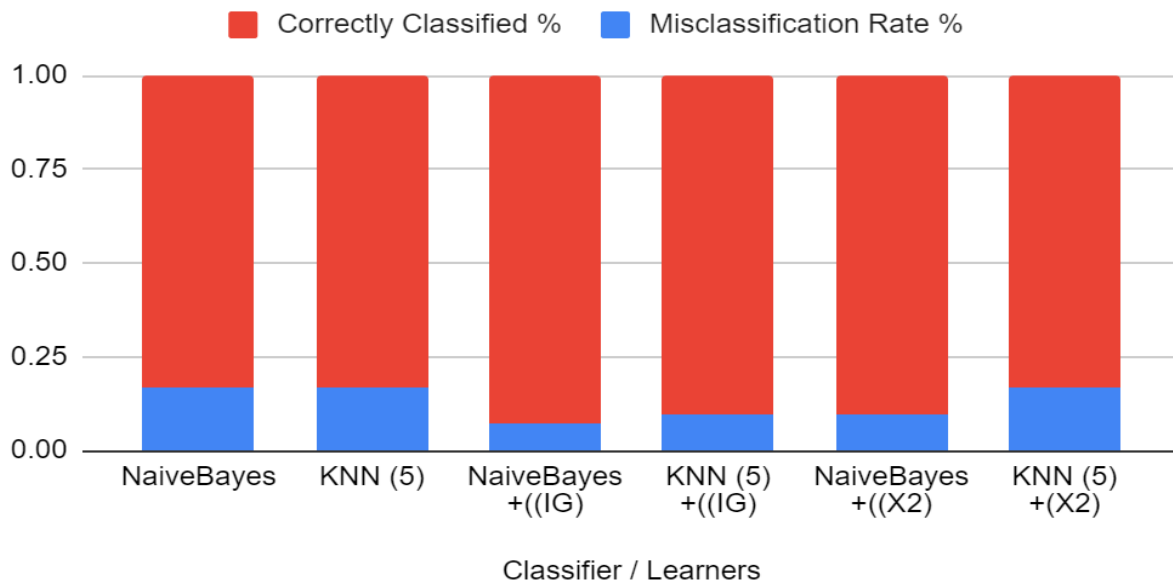
The area under the ROC curve performance metric threshold shows the Naive Bayes using (X2) slightly outperformed the Naive Bayes using (IG).

ROC vs. Classifier / Learners



The following chart examines the difference in misclassification rates provided by the experiments showing Naive Bayes using (IG) with most correctly classified instances.

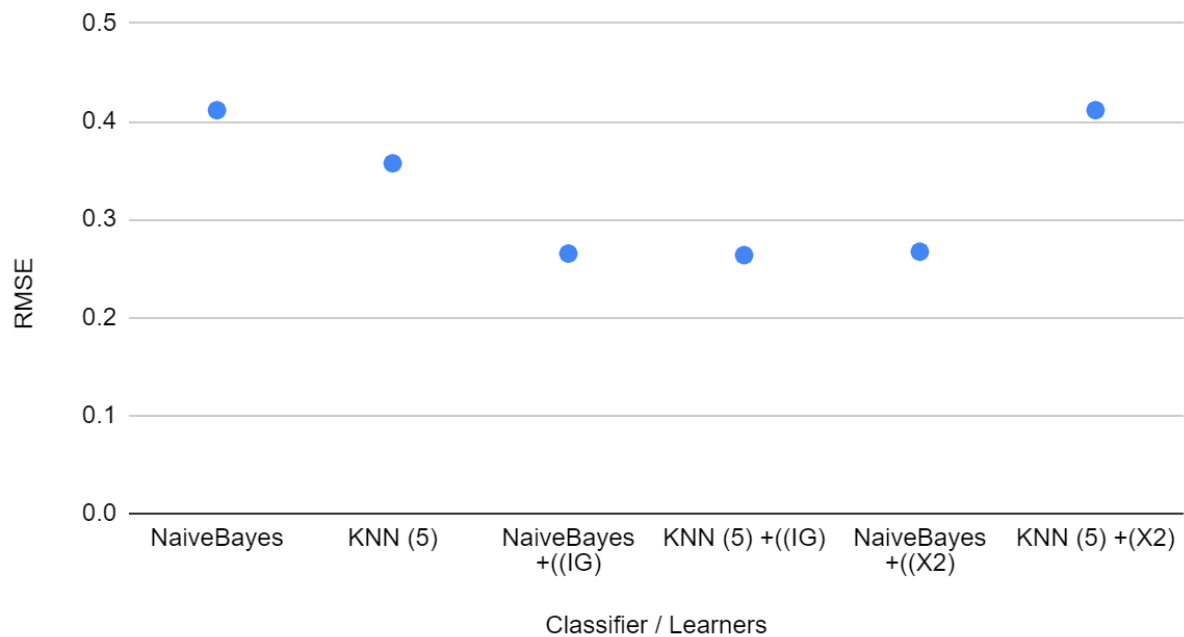
## Misclassification Rate % and Correctly Classified %



With the Root mean square Error we validate the findings to see that Naive Bayes using (IG) was definitely the learner and feature selection method that performs most accurately. We do however see that Naive Bayes using (X2) and (5)K-nearest neighbors(IG) where very close to performing and implementing the threshold for classification as expected.



## RMSE vs. Classifier / Learners



By combining the feature selection information gain ratio with the Naive Bayes classification learner, we can yield the best results with only 20 selected features. A more or less determined set of features selected in an analysis could result in an alternative outcome. This will need to be investigated in future research.

### **Assignment 3 Feature Selection Appendices**

This experimentation implement the use of feature selection techniques (NaiveBayes in the "bayes" directory) and 5-Nearest Neighbor (IBk in the "lazy" directory, with the KNN parameter changed to 5), in comparison with the top 20 feature attributes using Information Gain and Chi Squared feature rankers (InfoGainAttributeEval and ChiSquaredAttributeEval in Weka). The following is the appendices of experiment Weka experiment data.

#### **Appendices:**

1. NaiveBayes (NB) without feature selection
2. K-nearest neighbors (KNN) without feature selection
3. NaiveBayes (NB) with feature selection Information Gain (IG)
4. K-nearest neighbors (KNN) with feature selection Information Gain (IG)
5. NaiveBayes (NB) with feature selection Chi Squared (X2)
6. K-nearest neighbors (KNN) with feature selection Chi Squared (X2)

#### **NaiveBayes (NB) without feature selection**

=== Run information ===

Scheme: weka.classifiers.bayes.NaiveBayes

Relation: figure1

Instances: 95

Attributes: 4027

[list of attributes omitted]

Test mode: 10-fold cross-validation

=== Classifier model (full training set) ===

Naive Bayes Classifier

	Class	
Attribute	ACL	nonACL
	(0.25)	(0.75)

=====

GENE1835X

mean      -0.0228 -0.1821

std. dev.    0.3636 0.5115

weight sum     21    71

precision    0.0342 0.0342

GENE1836X

mean      -0.0947 -0.0818

std. dev.    0.4643 0.3502

weight sum     22    57

precision    0.0353 0.0353

GENE1865X

mean      0.0493 -0.03

std. dev.    0.4513 0.6125

weight sum     23    70

precision 0.0567 0.0567

#### GENE1380X

mean -0.1276 0.0479

std. dev. 0.3947 0.3566

weight sum 21 67

precision 0.0279 0.0279

#### GENE1933X

mean -0.1721 0.0697

std. dev. 0.3708 0.3844

weight sum 20 63

precision 0.0378 0.0378

#### GENE1932X

mean -0.1443 0.1103

std. dev. 0.4086 0.5389

weight sum 22 71

precision 0.0529 0.0529

#### GENE1931X

mean -0.1317 0.001

std. dev. 0.4495 0.4134

weight sum 22 69

precision 0.0362 0.0362

#### GENE1930X

mean -0.075 0.0675

std. dev. 0.4027 0.3868

weight sum 23 72

precision 0.0261 0.0261

#### GENE3129X

mean -0.1381 -0.0445

std. dev. 0.4686 0.5059

weight sum 23 72

precision 0.0308 0.0308

#### GENE3126X

mean -0.0191 0.049

std. dev. 0.5118 0.6718

weight sum 23 71

precision 0.044 0.044

#### GENE0X

mean -0.0355 0.0662

std. dev. 0.3371 0.3559

weight sum 20 68

precision 0.0338 0.0338

#### GENE3115X

mean -0.0021 0.0341

std. dev. 0.4958 0.3139

weight sum 20 68

precision 0.043 0.043

#### GENE3116X

mean 0.3088 -0.0251

std. dev. 1.0164 0.4025

weight sum 23 69

precision 0.0911 0.0911

#### GENE3117X

mean 0.2312 -0.0119

std. dev. 1.1074 0.6507

weight sum 22 59

precision 0.0877 0.0877

#### GENE3118X

mean 0.2523 0.0913

std. dev. 1.0291 0.7315

weight sum 21 58

precision 0.1039 0.1039

#### GENE3073X

mean 0.1284 0.0428

std. dev. 0.6372 0.6276

weight sum 23 71

precision 0.0428 0.0428

#### GENE3072X

mean -0.0469 0.0494

std. dev. 0.3351 0.4461

weight sum 22 64

precision 0.0333 0.0333

#### GENE3067X

mean -0.2172 0.1997

std. dev. 0.6997 1.0352

weight sum 19 62

precision 0.0625 0.0625

#### GENE3068X

mean -0.528 -0.1953

std. dev. 1.1253 1.1469

weight sum 22 66

precision 0.0581 0.0581

#### GENE3069X

mean -0.4714 -0.3483

std. dev. 1.3646 1.4307

weight sum 17 63

precision 0.0778 0.0778

#### GENE2584X

mean -0.1433 0.0167

std. dev. 0.9928 0.5216

weight sum 21 60

precision 0.0912 0.0912

#### GENE3070X

mean -0.1945 0.0899

std. dev. 0.3502 0.432

weight sum 23 72

precision 0.0339 0.0339

#### GENE1843X

mean 0.0025 0.0183

std. dev. 0.3724 0.3767

weight sum 21 72



precision 0.0258 0.0258

#### GENE3166X

mean 0.1082 -0.001

std. dev. 0.4384 0.3274

weight sum 20 64

precision 0.0314 0.0314

#### GENE3165X

mean -0.0638 0.0641

std. dev. 0.404 0.5606

weight sum 19 61

precision 0.0449 0.0449

#### GENE1885X

mean -0.2925 -0.0388

std. dev. 0.5224 0.5737

weight sum 17 64

precision 0.0518 0.0518

#### GENE3385X

mean -0.0201 -0.25

std. dev. 0.9664 0.9367

weight sum 23 72

precision 0.0579 0.0579

#### GENE3384X

mean -0.0308 -0.1617

std. dev. 1.001 0.8881

weight sum 22 71

precision 0.0565 0.0565

#### GENE1110X

mean -0.0058 -0.0574

std. dev. 0.6453 0.6991

weight sum 21 64

precision 0.0612 0.0612

#### GENE1109X

mean -0.3288 -0.1555

std. dev. 0.9975 1.0619

weight sum 23 71

precision 0.0756 0.0756

#### GENE1108X

mean -0.0144 -0.0445

std. dev. 0.748 0.7348

weight sum 22 70

precision 0.0528 0.0528

#### GENE1107X

mean 0.0669 -0.0587

std. dev. 0.6628 0.6125

weight sum 21 67

precision 0.0562 0.0562

#### GENE4005X

mean 0.4107 -0.0358

std. dev. 0.5404 0.8366

weight sum 18 60

precision 0.0632 0.0632

#### GENE4006X

mean 0.6984 -0.22

std. dev. 0.8825 1.4017

weight sum 23 71

precision 0.0883 0.0883

#### GENE4007X

mean 0.6486 -0.2084

std. dev. 0.8412 1.444

weight sum 23 72

precision 0.0878 0.0878

#### GENE4008X

mean 0.7137 -0.0873

std. dev. 0.8433 1.2364

weight sum 23 70

precision 0.0837 0.0837

#### GENE4009X

mean 0.2035 -0.154

std. dev. 0.6836 0.8086

weight sum 22 66

precision 0.0527 0.0527

#### GENE4010X

mean 0.1659 0.1201

std. dev. 0.6037 1.1645

weight sum 21 58

precision 0.0774 0.0774

#### GENE4011X

mean 0.2264 0.1686

std. dev. 0.7907 1.3041

weight sum 22 60

precision 0.0766 0.0766

#### GENE4012X

mean 0.0896 0.2357

std. dev. 1.1809 1.8776

weight sum 20 60

precision 0.0996 0.0996

#### GENE4013X

mean 0.3716 0.3918

std. dev. 1.1363 1.794

weight sum 20 65

precision 0.0991 0.0991

#### GENE4014X

mean 0.3748 0.6285

std. dev. 1.1694 1.8569

weight sum 19 64

precision 0.0962 0.0962

#### GENE4015X

mean 0.3135 0.4871

std. dev. 0.984 1.3888

weight sum 21 65

precision 0.074 0.074

#### GENE4016X

mean 0.3606 -0.0894

std. dev. 0.6336 0.878

weight sum 23 72

precision 0.0532 0.0532

#### GENE3884X

mean 0.2104 0.0153

std. dev. 0.569 0.6982

weight sum 23 61

precision 0.055 0.055

#### GENE3885X

mean 0.1694 0.0079

std. dev. 0.692 0.7811

weight sum 23 69

precision 0.0493 0.0493

#### GENE3886X

mean 0.2961 -0.0274

std. dev. 0.6575 0.6838

weight sum 23 68

precision 0.0434 0.0434

#### GENE3887X

mean 0.2134 -0.1218

std. dev. 0.5826 0.6562

weight sum 20 61

precision 0.0554 0.0554

#### GENE3888X

mean 0.1258 -0.2115

std. dev. 0.4793 0.7283

weight sum 21 63

precision 0.0574 0.0574

#### GENE3889X

mean 0.1497 -0.0836

std. dev. 0.5664 0.5659

weight sum 22 64

precision 0.0457 0.0457

#### GENE3890X

mean -0.106 -0.0136

std. dev. 0.6479 0.833

weight sum 23 66

precision 0.0642 0.0642

#### GENE1114X

mean -0.0241 0.0539

std. dev. 0.3629 0.4253

weight sum 23 72

precision 0.0326 0.0326

#### GENE1115X

mean -0.0542 -0.0489

std. dev. 0.6119 0.5879

weight sum 23 72

precision 0.043 0.043

#### GENE3936X

mean 0.1756 -0.0991

std. dev. 0.5315 0.5584

weight sum 18 60

precision 0.0472 0.0472

#### GENE3937X

mean 0.0197 -0.0769

std. dev. 0.512 0.5097

weight sum 21 63



precision 0.0375 0.0375

#### GENE3992X

mean 0.2764 -0.1169

std. dev. 0.782 0.7137

weight sum 21 63

precision 0.0558 0.0558

#### GENE3991X

mean 0.1927 -0.0983

std. dev. 0.6359 0.5598

weight sum 23 69

precision 0.0435 0.0435

#### GENE3963X

mean 0.1531 -0.1196

std. dev. 0.3694 0.5777

weight sum 23 72

precision 0.0349 0.0349

#### GENE3994X

mean -0.0934 0.0045

std. dev. 0.6101 0.6997

weight sum 22 72

precision 0.0541 0.0541

#### GENE1140X

mean 0.0256 -0.0722

std. dev. 0.7814 0.9746

weight sum 23 68

precision 0.0655 0.0655

#### GENE1141X

mean 0.0149 0.087

std. dev. 0.4744 0.5782

weight sum 22 69

precision 0.0411 0.0411

#### GENE3952X

mean 0.3229 -0.0803

std. dev. 0.5825 0.584

weight sum 21 61

precision 0.0538 0.0538

#### GENE3981X

mean 0.4946 -0.0034

std. dev. 0.7022 0.5845

weight sum 23 70

precision 0.0476 0.0476

#### GENE3940X

mean 1.1887 -0.0811

std. dev. 1.1553 0.9296

weight sum 23 70

precision 0.0653 0.0653

#### GENE3951X

mean 0.3258 0.0569

std. dev. 0.7906 0.7003

weight sum 23 69

precision 0.0604 0.0604

#### GENE3950X

mean 0.4877 -0.1006

std. dev. 1.1073 1.054

weight sum 23 72

precision 0.063 0.063

#### GENE3949X

mean 0.4619 0.0404

std. dev. 0.8067 0.952

weight sum 22 69

precision 0.0664 0.0664

#### GENE3948X

mean 0.4841 -0.0591

std. dev. 0.6713 0.8782

weight sum 23 71

precision 0.0559 0.0559

#### GENE3806X

mean 0.1854 -0.1426

std. dev. 0.8759 0.7757

weight sum 20 65

precision 0.0806 0.0806

#### GENE3807X

mean 0.447 -0.0529

std. dev. 0.9137 0.7944

weight sum 23 66

precision 0.0635 0.0635

#### GENE3944X

mean 1.3794 -0.1862

std. dev. 1.3034 1.1959

weight sum 23 72

precision 0.0713 0.0713

#### GENE3943X

mean 0.6676 -0.2422

std. dev. 0.699 0.7907

weight sum 23 72

precision 0.0535 0.0535

#### GENE3942X

mean 0.4883 -0.2328

std. dev. 0.558 0.7378

weight sum 22 66

precision 0.0467 0.0467

#### GENE3941X

mean 0.7176 -0.2099

std. dev. 0.8775 0.6417

weight sum 23 72

precision 0.0534 0.0534

#### GENE3939X

mean 0.6053 -0.2434

std. dev. 0.4167 0.7013

weight sum 22 70

precision 0.0459 0.0459

#### GENE3946X

mean 0.804 -0.3539

std. dev. 0.8471 0.8671

weight sum 23 71

precision 0.0587 0.0587

#### GENE3945X

mean 0.9442 -0.2191

std. dev. 0.8676 0.8553

weight sum 23 72

precision 0.0566 0.0566

#### GENE3947X

mean 0.6122 -0.2507

std. dev. 0.9571 1.0796

weight sum 23 70

precision 0.0533 0.0533

#### GENE3954X

mean 0.3998 -0.0945

std. dev. 0.6658 1.0203

weight sum 18 63

precision 0.0654 0.0654

#### GENE3953X

mean 0.2313 -0.1049

std. dev. 0.8416 0.9884

weight sum 23 68

precision 0.0649 0.0649

#### GENE2531X

mean 0.2324 -0.0452

std. dev. 0.781 1.0292

weight sum 23 69

precision 0.0557 0.0557

#### GENE2532X

mean 0.1702 0.1446

std. dev. 0.8325 0.9545

weight sum 20 67

precision 0.0524 0.0524

#### GENE2533X

mean 0.0694 0.0567

std. dev. 0.3732 0.7162

weight sum 20 68

precision 0.0514 0.0514

#### GENE2534X

mean 0.1137 0.1012

std. dev. 0.3966 0.7467

weight sum 22 70

precision 0.0532 0.0532

#### GENE2535X

mean 0.0214 -0.0243

std. dev. 0.897 1.2285

weight sum 21 59

precision 0.0897 0.0897

#### GENE2536X

mean 0.2704 0.0173

std. dev. 0.9381 1.3163

weight sum 23 72

precision 0.0655 0.0655

#### GENE2537X

mean 0.2288 0.1351

std. dev. 1.0804 1.4802

weight sum 23 70



precision 0.0763 0.0763

#### GENE2538X

mean 0.2816 0.1088

std. dev. 0.9962 1.2481

weight sum 22 67

precision 0.0645 0.0645

#### GENE2539X

mean -0.0037 0.1087

std. dev. 0.3619 0.4618

weight sum 22 67

precision 0.0405 0.0405

#### GENE2540X

mean 0.0866 0.0757

std. dev. 0.6334 0.8965

weight sum 23 72

precision 0.0524 0.0524

#### GENE2541X

mean 0.121 0.0962

std. dev. 0.6284 0.9332

weight sum 23 72

precision 0.0679 0.0679

#### GENE2542X

mean -0.0466 0.0687

std. dev. 0.6327 0.7648

weight sum 23 68

precision 0.0487 0.0487

#### GENE2543X

mean 0.051 0.0663

std. dev. 0.5915 0.8368

weight sum 23 70

precision 0.0559 0.0559

#### GENE3959X

mean 0.3235 -0.1237

std. dev. 0.3473 0.5384

weight sum 20 71

precision 0.0335 0.0335

#### GENE3960X

mean 0.3219 -0.0594

std. dev. 0.632 0.4535

weight sum 23 72

precision 0.0411 0.0411

#### GENE3879X

mean 0.0273 0.0011

std. dev. 0.3294 0.5412

weight sum 23 72

precision 0.0393 0.0393

#### GENE3880X

mean -0.1299 0.1142

std. dev. 0.4424 0.6389

weight sum 23 72

precision 0.0433 0.0433

#### GENE3881X

mean -0.0747 0.0765

std. dev. 0.4552 0.6466

weight sum 23 71

precision 0.0464 0.0464

#### GENE3882X

mean -0.1344 0.0792

std. dev. 0.5082 0.6422

weight sum 22 70

precision 0.0462 0.0462

#### GENE3861X

mean -0.4889 -0.1735

std. dev. 0.4913 1.0577

weight sum 21 63

precision 0.0667 0.0667

#### GENE3860X

mean -0.6868 -0.1075

std. dev. 0.6208 1.0209

weight sum 22 60

precision 0.0597 0.0597

#### GENE3863X

mean -0.5466 0.0836

std. dev. 0.6243 0.7206

weight sum 19 60

precision 0.0597 0.0597

#### GENE3862X

mean -0.2988 0.1408

std. dev. 0.4798 0.9401

weight sum 20 65

precision 0.0756 0.0756

#### GENE3864X

mean 0.0248 -0.0416

std. dev. 0.7158 0.7885

weight sum 19 61

precision 0.059 0.059

#### GENE3865X

mean 0.1529 -0.0855

std. dev. 0.7428 0.7369

weight sum 23 66

precision 0.0463 0.0463

#### GENE3866X

mean 0.1259 -0.1999

std. dev. 0.8889 0.8243

weight sum 23 71

precision 0.0483 0.0483

#### GENE3867X

mean 0.2649 -0.1105

std. dev. 0.6398 0.6347

weight sum 21 68

precision 0.0488 0.0488

#### GENE3868X

mean -0.1462 -0.0471

std. dev. 0.8158 0.6508

weight sum 20 69

precision 0.0541 0.0541

#### GENE3869X

mean -0.166 -0.0716

std. dev. 0.7308 0.7889

weight sum 22 69

precision 0.0537 0.0537

#### GENE3870X

mean 0.129 -0.0435

std. dev. 0.58 0.6783

weight sum 21 71

precision 0.0475 0.0475

#### GENE3871X

mean -0.0743 -0.0526

std. dev. 0.5663 0.6796

weight sum 20 61

precision 0.0594 0.0594

#### GENE3872X

mean -0.0812 0.053

std. dev. 0.6548 0.5627

weight sum 22 63

precision 0.0397 0.0397

#### GENE2592X

mean 0.0539 -0.0393

std. dev. 0.6937 0.6222

weight sum 22 69

precision 0.0424 0.0424

#### GENE2591X

mean -0 0.0282

std. dev. 0.2603 0.5357

weight sum 23 66

precision 0.0503 0.0503

#### GENE166X

mean 0.1351 -0.0381

std. dev. 0.3695 0.7537

weight sum 23 71

precision 0.0676 0.0676

#### GENE3438X

mean 0.0896 -0.1034

std. dev. 0.4936 0.5023

weight sum 23 72

precision 0.0332 0.0332

#### GENE3439X

mean 0.0343 -0.0713

std. dev. 0.4587 0.5626

weight sum 20 59

precision 0.0457 0.0457

#### GENE3441X

mean -0.0716 -0.0967

std. dev. 0.4672 0.6019

weight sum 18 64

precision 0.0516 0.0516

#### GENE3440X

mean -0.0135 0.0325

std. dev. 0.368 0.5221

weight sum 23 67



precision 0.0518 0.0518

#### GENE3444X

mean 0.2692 -0.0902

std. dev. 0.5483 0.7571

weight sum 22 65

precision 0.0611 0.0611

#### GENE3442X

mean 0.14 -0.1065

std. dev. 0.5725 0.5893

weight sum 23 72

precision 0.0408 0.0408

#### GENE3443X

mean 0.11 -0.0891

std. dev. 0.5808 0.6568

weight sum 23 71

precision 0.0422 0.0422

#### GENE3446X

mean 0.2893 -0.0174

std. dev. 0.6135 0.8649

weight sum 23 68

precision 0.0622 0.0622

#### GENE3445X

mean 0.2495 -0.152

std. dev. 0.63 0.7547

weight sum 23 72

precision 0.0486 0.0486

#### GENE3447X

mean 0.229 -0.1034

std. dev. 0.387 0.3985

weight sum 23 72

precision 0.0315 0.0315

#### GENE3448X

mean 0.1803 -0.0633

std. dev. 0.297 0.3768

weight sum 21 71

precision 0.0308 0.0308

#### GENE3449X

mean 0.2 -0.0306

std. dev. 0.2916 0.2989

weight sum 23 72

precision 0.0286 0.0286

#### GENE1501X

mean 0.2106 -0.1201

std. dev. 0.3874 0.5746

weight sum 23 65

precision 0.0538 0.0538

#### GENE3404X

mean 0.2141 -0.0471

std. dev. 0.2684 0.2905

weight sum 22 66

precision 0.0239 0.0239

#### GENE3403X

mean 0.0354 -0.0629

std. dev. 0.2637 0.5341

weight sum 22 67

precision 0.0354 0.0354

#### GENE3401X

mean 0.1802 -0.08

std. dev. 0.3788 0.4443

weight sum 23 71

precision 0.0307 0.0307

#### GENE3402X

mean 0.1666 -0.0539

std. dev. 0.4226 0.4447

weight sum 22 72

precision 0.0311 0.0311

#### GENE3399X

mean 0.1866 -0.1176

std. dev. 0.3153 0.382

weight sum 23 71

precision 0.033 0.033

#### GENE3400X

mean 0.2143 -0.1143

std. dev. 0.2619 0.3533

weight sum 23 68

precision 0.0278 0.0278

#### GENE816X

mean 0.2134 -0.0429

std. dev. 0.3219 0.4221

weight sum 23 70

precision 0.0303 0.0303

#### GENE3406X

mean 0.1155 -0.0847

std. dev. 0.2188 0.4072

weight sum 23 70

precision 0.0364 0.0364

#### GENE3405X

mean 0.1808 -0.06

std. dev. 0.2718 0.3361

weight sum 23 72

precision 0.0274 0.0274

#### GENE213X

mean 0.1567 -0.0481

std. dev. 0.3661 0.4219

weight sum 22 64

precision 0.0371 0.0371

#### GENE3892X

mean 0.0869 -0.0612

std. dev. 0.3046 0.4421

weight sum 20 68

precision 0.0362 0.0362

#### GENE3876X

mean 0.1029 -0.0921

std. dev. 0.5292 0.5799

weight sum 23 66

precision 0.0408 0.0408

#### GENE3875X

mean 0.0131 -0.1701

std. dev. 0.8377 1.1667

weight sum 23 66

precision 0.0753 0.0753

#### GENE3874X

mean -0.0102 -0.0998

std. dev. 0.8168 1.1627

weight sum 21 65

precision 0.0713 0.0713

#### GENE167X

mean 0.0496 -0.0796

std. dev. 0.272 0.4191

weight sum 23 61

precision 0.0317 0.0317

#### GENE3450X

mean 0.1744 0.0348

std. dev. 0.5696 0.5877

weight sum 23 72

precision 0.0456 0.0456

#### GENE3451X

mean 0.2041 -0.0006

std. dev. 0.5023 0.5688

weight sum 23 72

precision 0.0419 0.0419

#### GENE3452X

mean 0.1389 -0.0201

std. dev. 0.5004 0.5662

weight sum 23 72

precision 0.0426 0.0426

#### GENE3453X

mean 0.1516 -0.0336

std. dev. 0.5771 0.5856

weight sum 23 70

precision 0.0453 0.0453

#### GENE3454X

mean -0.0136 -0.1034

std. dev. 0.5183 0.5287

weight sum 22 70

precision 0.0373 0.0373

#### GENE3878X

mean 0.002 -0.1089

std. dev. 0.4086 0.5029

weight sum 23 67

precision 0.0453 0.0453

#### GENE3437X

mean 0.1922 -0.0509

std. dev. 0.429 0.5196

weight sum 23 71

precision 0.0368 0.0368

#### GENE3436X

mean 0.2869 -0.0623

std. dev. 0.3949 0.5309

weight sum 23 72



precision 0.0377 0.0377

#### GENE3435X

mean 0.288 -0.1227

std. dev. 0.4973 0.6855

weight sum 23 72

precision 0.0669 0.0669

#### GENE3470X

mean 0.1887 -0.1303

std. dev. 0.6863 0.6665

weight sum 23 72

precision 0.0413 0.0413

#### GENE3832X

mean -0.5386 -0.0877

std. dev. 0.9697 0.9952

weight sum 23 55

precision 0.0742 0.0742

#### GENE3831X

mean 0.0021 -0.0407

std. dev. 0.8851 0.9556

weight sum 23 72

precision 0.0488 0.0488

#### GENE3830X

mean 0.0033 -0.0227

std. dev. 0.4428 0.544

weight sum 23 72

precision 0.0379 0.0379

#### GENE394X

mean 0.1457 -0.0921

std. dev. 0.377 0.4657

weight sum 23 72

precision 0.0372 0.0372

#### GENE3531X

mean 0.046 0.0334

std. dev. 0.3495 0.5256

weight sum 23 70

precision 0.0441 0.0441

#### GENE3530X

mean 0.0148 0.0547

std. dev. 0.3163 0.4101

weight sum 23 72

precision 0.0284 0.0284

#### GENE918X

mean 0.0553 -0.0085

std. dev. 0.4787 0.5231

weight sum 23 72

precision 0.0438 0.0438

#### GENE3483X

mean 0.0046 0.014

std. dev. 0.5435 0.5125

weight sum 23 71

precision 0.0356 0.0356

#### GENE3520X

mean 0.0635 -0.0082

std. dev. 0.6021 0.8338

weight sum 23 72

precision 0.0395 0.0395

#### GENE3519X

mean 0.1933 -0.0155

std. dev. 0.6358 0.8831

weight sum 23 71

precision 0.044 0.044

#### GENE3518X

mean 0.0869 -0.0666

std. dev. 0.3924 0.6043

weight sum 23 72

precision 0.0364 0.0364

#### GENE3517X

mean 0.1515 -0.0559

std. dev. 0.342 0.5579

weight sum 23 72

precision 0.0359 0.0359

#### GENE3516X

mean 0.0297 0.0053

std. dev. 0.5147 0.601

weight sum 23 72

precision 0.0427 0.0427

#### GENE3515X

mean 0.1278 -0.1113

std. dev. 0.4551 0.6221

weight sum 23 72

precision 0.0403 0.0403

#### GENE3514X

mean 0.0798 -0.0669

std. dev. 0.306 0.5551

weight sum 22 72

precision 0.0501 0.0501

#### GENE3503X

mean -0.1408 0.0032

std. dev. 0.5311 0.7

weight sum 23 71

precision 0.0381 0.0381

#### GENE3502X

mean -0.2302 0.0219

std. dev. 0.6264 0.6879

weight sum 23 71

precision 0.0519 0.0519

#### GENE3504X

mean -0.0214 -0.0475

std. dev. 0.4036 0.35

weight sum 23 72

precision 0.0259 0.0259

#### GENE3511X

mean 0.1414 -0.0105

std. dev. 0.6568 0.4527

weight sum 23 71

precision 0.0392 0.0392

#### GENE3505X

mean 0.2332 -0.0326

std. dev. 0.5412 0.4448

weight sum 23 72

precision 0.0443 0.0443

#### GENE3506X

mean 0.0229 -0.0233

std. dev. 0.5394 0.5342

weight sum 23 72

precision 0.0329 0.0329

#### GENE3507X

mean -0.0511 -0.0132

std. dev. 0.3841 0.3942

weight sum 23 70

precision 0.0318 0.0318

#### GENE3508X

mean 0.0974 -0.0124

std. dev. 0.5332 0.5484

weight sum 23 72

precision 0.0448 0.0448

#### GENE3509X

mean 0.15 -0.0486

std. dev. 0.6004 0.5009

weight sum 23 72

precision 0.0486 0.0486

#### GENE3510X

mean 0.0191 -0.0273

std. dev. 0.6243 0.5005

weight sum 23 71

precision 0.0365 0.0365

#### GENE3501X

mean -0.0213 -0.0402

std. dev. 0.7102 0.7319

weight sum 23 72

precision 0.0491 0.0491

#### GENE3500X

mean 0.0478 -0.0213

std. dev. 0.7649 0.7617

weight sum 23 71

precision 0.0459 0.0459

#### GENE3499X

mean 0.1337 0.0381

std. dev. 0.5586 0.5976

weight sum 23 72

precision 0.0331 0.0331

#### GENE3498X

mean -0.1527 0.0268

std. dev. 0.5299 0.6878

weight sum 22 72

precision 0.0386 0.0386

#### GENE3497X

mean 0.0219 0.0268

std. dev. 0.5576 0.6587

weight sum 23 72



precision 0.042 0.042

#### GENE3496X

mean -0.1651 -0.067

std. dev. 0.4469 0.5988

weight sum 23 71

precision 0.0355 0.0355

#### GENE3495X

mean -0.0578 0.0344

std. dev. 0.4456 0.6492

weight sum 23 69

precision 0.0475 0.0475

#### GENE3490X

mean -0.2185 0.1483

std. dev. 0.4987 0.776

weight sum 23 72

precision 0.0523 0.0523

#### GENE3489X

mean 0.104 0.0018

std. dev. 0.4322 0.7186

weight sum 23 71

precision 0.0647 0.0647

#### GENE3492X

mean -0.086 0.0813

std. dev. 0.4008 0.6298

weight sum 23 72

precision 0.0404 0.0404

#### GENE3491X

mean -0.2684 0.026

std. dev. 0.5904 0.5713

weight sum 22 70

precision 0.0413 0.0413

#### GENE3493X

mean 0.1539 -0.0107

std. dev. 0.4261 0.6185

weight sum 23 70

precision 0.0357 0.0357

#### GENE3494X

mean 0.1173 -0.0363

std. dev. 0.6274 0.7998

weight sum 23 70

precision 0.0529 0.0529

#### GENE3521X

mean 0.0772 -0.1144

std. dev. 0.6434 0.7871

weight sum 23 72

precision 0.0538 0.0538

#### GENE3522X

mean 0.1645 -0.0493

std. dev. 0.4018 0.4507

weight sum 23 71

precision 0.0315 0.0315

#### GENE3488X

mean 0.0372 -0.0178

std. dev. 0.4765 0.5486

weight sum 22 70

precision 0.0327 0.0327

#### GENE3604X

mean 0.3235 -0.081

std. dev. 0.4695 0.4894

weight sum 23 64

precision 0.0443 0.0443

#### GENE3603X

mean 0.1171 -0.048

std. dev. 0.2614 0.4611

weight sum 23 72

precision 0.0379 0.0379

#### GENE3602X

mean 0.0688 -0.0808

std. dev. 0.3094 0.4636

weight sum 23 70

precision 0.0351 0.0351

#### GENE3812X

mean 0.2308 -0.0799

std. dev. 0.622 0.6914

weight sum 20 64

precision 0.0556 0.0556

#### GENE3484X

mean 0.7234 -0.2138

std. dev. 1.1749 1.1033

weight sum 23 71

precision 0.073 0.073

#### GENE3485X

mean 0.1508 0.0007

std. dev. 0.5206 0.7404

weight sum 23 70

precision 0.0503 0.0503

#### GENE3486X

mean -0 -0.0139

std. dev. 0.5079 0.8264

weight sum 23 72

precision 0.059 0.059

#### GENE3487X

mean 0.0178 0.0086

std. dev. 0.4402 0.6787

weight sum 23 72

precision 0.0684 0.0684

#### GENE3526X

mean 0.1017 -0.0333

std. dev. 0.3303 0.3544

weight sum 20 63

precision 0.0323 0.0323

#### GENE3525X

mean 0.0646 0.0141

std. dev. 0.4518 0.5259

weight sum 20 67

precision 0.043 0.043

#### GENE3524X

mean -0.0033 -0.0433

std. dev. 0.3683 0.4737

weight sum 23 71

precision 0.038 0.038

#### GENE3523X

mean 0.1679 -0.0173

std. dev. 0.3115 0.3215

weight sum 23 72

precision 0.0297 0.0297

#### GENE3280X

mean 0.0471 0.0556

std. dev. 0.5352 0.8504

weight sum 23 71

precision 0.0637 0.0637

#### GENE3281X

mean -0.1256 -0.0768

std. dev. 0.4982 0.6976

weight sum 23 72

precision 0.0419 0.0419

#### GENE3282X

mean -0.1401 0.0414

std. dev. 0.5083 0.772

weight sum 23 69

precision 0.046 0.046

#### GENE3527X

mean -0.0432 -0.0157

std. dev. 0.4035 0.4868

weight sum 23 71

precision 0.0301 0.0301

#### GENE3529X

mean 0.1429 0.0497

std. dev. 0.4429 0.3582

weight sum 21 70

precision 0.03 0.03

#### GENE3528X

mean 0.1391 0.0063

std. dev. 0.3306 0.3468

weight sum 23 72

precision 0.0352 0.0352

#### GENE3512X

mean 0.2347 -0.1104

std. dev. 0.4153 0.4633

weight sum 23 72

precision 0.0323 0.0323

#### GENE2544X

mean 0.1705 0.0267

std. dev. 0.3607 0.5785

weight sum 19 66

precision 0.036 0.036

#### GENE3843X

mean 0.139 -0.1258

std. dev. 0.4946 0.5073

weight sum 23 71



precision 0.047 0.047

#### GENE3842X

mean 0.0979 -0.0659

std. dev. 0.5237 0.4749

weight sum 20 69

precision 0.037 0.037

#### GENE3480X

mean -0.0408 0.1997

std. dev. 0.825 0.9943

weight sum 23 72

precision 0.0625 0.0625

#### GENE3802X

mean 0.212 -0.176

std. dev. 0.7603 0.9442

weight sum 23 72

precision 0.065 0.065

#### GENE3801X

mean 0.1807 -0.2038

std. dev. 0.8302 1.0561

weight sum 23 71

precision 0.0742 0.0742

#### GENE3533X

mean -0.0067 -0.1563

std. dev. 0.7005 0.9873

weight sum 22 67

precision 0.0738 0.0738

#### GENE3534X

mean -0.2153 -0.0505

std. dev. 0.7787 1.128

weight sum 21 71

precision 0.0718 0.0718

#### GENE3540X

mean 0.0471 -0.2445

std. dev. 0.5472 0.7173

weight sum 17 63

precision 0.0616 0.0616

#### GENE3558X

mean 0.116 -0

std. dev. 0.4573 0.538

weight sum 23 72

precision 0.0338 0.0338

#### GENE3811X

mean -0.0693 -0.0383

std. dev. 0.4483 0.5634

weight sum 23 68

precision 0.042 0.042

#### GENE3291X

mean -0.2046 -0.0078

std. dev. 0.5925 0.6767

weight sum 23 72

precision 0.0512 0.0512

#### GENE2447X

mean -0.0241 0.1036

std. dev. 0.4457 0.7332

weight sum 23 72

precision 0.0504 0.0504

#### GENE3810X

mean -0.0545 -0.1121

std. dev. 0.4158 0.502

weight sum 23 65

precision 0.0321 0.0321

#### GENE3809X

mean -0.297 -0.0408

std. dev. 0.673 0.7851

weight sum 22 70

precision 0.0454 0.0454

#### GENE3808X

mean -0.1765 -0.0719

std. dev. 0.5253 0.7598

weight sum 20 61

precision 0.0569 0.0569

#### GENE3826X

mean -0.0747 0.0113

std. dev. 0.5189 0.7369

weight sum 23 70

precision 0.0441 0.0441

#### GENE3825X

mean -0.102 -0.0863

std. dev. 0.9033 0.9006

weight sum 21 66

precision 0.0522 0.0522

#### GENE3799X

mean -0.084 -0.1451

std. dev. 0.4779 0.7541

weight sum 22 69

precision 0.0513 0.0513

#### GENE3798X

mean 0.1182 0.1043

std. dev. 0.6171 0.8305

weight sum 21 71

precision 0.0421 0.0421

#### GENE3797X

mean 0.2256 -0.2289

std. dev. 0.5115 1.28

weight sum 23 68

precision 0.0701 0.0701

#### GENE3796X

mean 0.2484 -0.4566

std. dev. 0.6415 1.4087

weight sum 23 66

precision 0.0783 0.0783

#### GENE3795X

mean 0.4078 -0.3679

std. dev. 0.5562 1.2193

weight sum 23 72

precision 0.0634 0.0634

#### GENE3794X

mean 0.2698 -0.6385

std. dev. 0.595 1.6509

weight sum 23 70

precision 0.0786 0.0786

#### GENE3687X

mean -0.3253 0.0122

std. dev. 0.5726 0.908

weight sum 22 71

precision 0.0511 0.0511

#### GENE3790X

mean -0.1945 0.0056

std. dev. 0.5988 0.9034

weight sum 21 68

precision 0.0638 0.0638

#### GENE3789X

mean -0.4643 -0.1938

std. dev. 0.7664 1.1856

weight sum 22 71

precision 0.0844 0.0844

#### GENE3788X

mean -0.4706 -0.1773

std. dev. 0.7284 1.1331

weight sum 22 70

precision 0.0734 0.0734

#### GENE3787X

mean -0.3634 -0.1259

std. dev. 0.6665 0.9908

weight sum 22 71

precision 0.0592 0.0592

#### GENE3786X

mean -0.2736 -0.0749

std. dev. 0.5372 1.0418

weight sum 22 72

precision 0.07 0.07

#### GENE3785X

mean 0.0022 -0.0508

std. dev. 0.4874 0.8323

weight sum 22 70

precision 0.0487 0.0487

#### GENE3784X

mean -0.0763 -0.0226

std. dev. 0.6496 0.957

weight sum 23 70

precision 0.0585 0.0585

#### GENE3693X

mean -0.4266 -0.1116

std. dev. 1.0174 1.2705

weight sum 23 71

precision 0.0727 0.0727

#### GENE3692X

mean -0.4909 -0.1344

std. dev. 0.977 1.3542

weight sum 23 71



precision 0.0795 0.0795

#### GENE3698X

mean -0.405 0.1757

std. dev. 0.7251 1.2244

weight sum 23 72

precision 0.068 0.068

#### GENE3699X

mean -0.328 0.0282

std. dev. 0.6144 1.1747

weight sum 23 72

precision 0.0656 0.0656

#### GENE3700X

mean -0.2033 -0.0954

std. dev. 0.2758 0.5145

weight sum 23 72

precision 0.0318 0.0318

#### GENE3729X

mean 0.1435 -0.1913

std. dev. 0.7021 0.8626

weight sum 23 70

precision 0.0635 0.0635

#### GENE3728X

mean 0.0757 -0.0272

std. dev. 0.475 0.7839

weight sum 23 72

precision 0.0544 0.0544

#### GENE3783X

mean 0.0959 -0.1976

std. dev. 0.5003 0.6754

weight sum 23 56

precision 0.0432 0.0432

#### GENE3782X

mean 0.1678 -0.3821

std. dev. 0.5543 0.8567

weight sum 23 72

precision 0.0551 0.0551

#### GENE3781X

mean 0.1856 -0.3315

std. dev. 0.5865 1.0058

weight sum 23 72

precision 0.0647 0.0647

#### GENE3780X

mean 0.2855 -0.3224

std. dev. 0.6235 0.8872

weight sum 22 68

precision 0.0561 0.0561

#### GENE3779X

mean -0.4061 -0.0828

std. dev. 0.5595 0.9201

weight sum 22 62

precision 0.0667 0.0667

#### GENE3778X

mean -0.1562 -0.1996

std. dev. 0.7686 1.2989

weight sum 22 72

precision 0.0701 0.0701

#### GENE3777X

mean -0.0416 -0.119

std. dev. 0.7499 1.2574

weight sum 23 70

precision 0.0683 0.0683

#### GENE3776X

mean -0.0594 -0.2035

std. dev. 0.6413 1.1037

weight sum 23 72

precision 0.0621 0.0621

#### GENE3775X

mean -0.0953 -0.1467

std. dev. 0.6043 1.0694

weight sum 23 71

precision 0.0609 0.0609

#### GENE3774X

mean -0.1112 -0.1987

std. dev. 0.7082 1.0803

weight sum 23 72

precision 0.0609 0.0609

#### GENE3773X

mean -0.2735 -0.2828

std. dev. 0.7218 1.1564

weight sum 23 69

precision 0.0642 0.0642

#### GENE3772X

mean -0.1984 -0.1889

std. dev. 0.7773 1.1135

weight sum 23 70

precision 0.0661 0.0661

#### GENE3771X

mean -0.3629 -0.3884

std. dev. 0.8514 1.5648

weight sum 23 71

precision 0.0818 0.0818

#### GENE3770X

mean -0.3533 -0.4589

std. dev. 0.8464 1.6373

weight sum 23 72

precision 0.0774 0.0774

#### GENE3769X

mean -0.179 -0.3168

std. dev. 0.9179 1.5041

weight sum 23 72

precision 0.0698 0.0698

#### GENE3768X

mean -0.1747 -0.278

std. dev. 0.9588 1.5326

weight sum 23 72

precision 0.0717 0.0717

#### GENE3767X

mean -0.291 -0.1851

std. dev. 0.9124 1.6287

weight sum 23 71

precision 0.0816 0.0816

#### GENE3766X

mean -0.1199 -0.0152

std. dev. 0.9309 1.7104

weight sum 23 70

precision 0.1061 0.1061

#### GENE3765X

mean -0.3039 -0.3907

std. dev. 0.915 1.9642

weight sum 23 71

precision 0.1075 0.1075

#### GENE3764X

mean -0.2556 -0.2741

std. dev. 0.8961 1.8876

weight sum 23 72

precision 0.0997 0.0997

#### GENE3763X

mean -0.089 -0.4157

std. dev. 0.6575 1.5622

weight sum 23 72

precision 0.0788 0.0788

#### GENE3762X

mean -0.1636 -0.4327

std. dev. 0.7509 1.5934

weight sum 23 70

precision 0.0875 0.0875

#### GENE3761X

mean -0.099 -0.3933

std. dev. 0.7489 1.5026

weight sum 20 65

precision 0.0825 0.0825

#### GENE3760X

mean -0.0872 -0.1168

std. dev. 0.4483 1.0516

weight sum 23 72

precision 0.0542 0.0542

#### GENE3759X

mean 0.346 -0.2791

std. dev. 1.0237 1.0797

weight sum 23 72

precision 0.0804 0.0804

#### GENE3758X

mean 0.5835 -0.4786

std. dev. 0.8316 1.1804

weight sum 23 72

precision 0.0674 0.0674

#### GENE3757X

mean 0.5648 -0.5716

std. dev. 0.8124 1.2192

weight sum 23 72



precision 0.073 0.073

#### GENE3756X

mean 0.5195 -0.424

std. dev. 0.8776 1.2362

weight sum 23 72

precision 0.0872 0.0872

#### GENE3755X

mean 0.7346 -0.4708

std. dev. 1.3441 1.2697

weight sum 23 71

precision 0.0908 0.0908

#### GENE3754X

mean 0.8152 -0.425

std. dev. 1.3249 1.2036

weight sum 23 70

precision 0.0833 0.0833

#### GENE3753X

mean 0.7675 -0.4947

std. dev. 1.2966 1.1677

weight sum 23 72

precision 0.0792 0.0792

#### GENE3752X

mean 0.6623 -0.5508

std. dev. 1.3126 1.4715

weight sum 23 71

precision 0.0891 0.0891

#### GENE3751X

mean 0.5107 -0.5765

std. dev. 1.3014 1.4374

weight sum 22 71

precision 0.0977 0.0977

#### GENE3750X

mean 0.2335 -0.1724

std. dev. 0.7568 0.5768

weight sum 23 67

precision 0.0507 0.0507

#### GENE3749X

mean 0.262 -0.066

std. dev. 0.9744 0.9371

weight sum 23 70

precision 0.0783 0.0783

#### GENE3748X

mean 0.0855 -0.3014

std. dev. 0.8346 1.103

weight sum 23 69

precision 0.0703 0.0703

#### GENE3747X

mean 0.1975 -0.3404

std. dev. 0.7323 1.0203

weight sum 23 72

precision 0.0668 0.0668

#### GENE3746X

mean 0.1889 -0.3654

std. dev. 0.789 1.0924

weight sum 23 71

precision 0.063 0.063

#### GENE3745X

mean 0.1676 -0.3565

std. dev. 0.8166 1.0511

weight sum 23 70

precision 0.0676 0.0676

#### GENE3744X

mean 0.3072 -0.3744

std. dev. 0.8242 1.1502

weight sum 23 72

precision 0.0654 0.0654

#### GENE3743X

mean 0.2334 -0.3043

std. dev. 0.7208 0.9904

weight sum 23 71

precision 0.0688 0.0688

#### GENE3742X

mean 0.3053 -0.2542

std. dev. 0.8188 1.0029

weight sum 23 72

precision 0.0709 0.0709

#### GENE3741X

mean 0.1543 -0.3058

std. dev. 0.7701 0.9076

weight sum 18 64

precision 0.0617 0.0617

#### GENE3740X

mean 0.107 -0.1011

std. dev. 0.5602 0.6744

weight sum 23 70

precision 0.0385 0.0385

#### GENE3739X

mean 0.2134 -0.2324

std. dev. 0.547 0.9742

weight sum 23 72

precision 0.0467 0.0467

#### GENE3738X

mean 0.2315 -0.5214

std. dev. 0.5837 1.3812

weight sum 22 70

precision 0.0707 0.0707

#### GENE3737X

mean 0.1673 -0.464

std. dev. 0.5214 1.189

weight sum 23 70

precision 0.0566 0.0566

#### GENE3736X

mean 0.0593 -0.372

std. dev. 0.5976 1.0862

weight sum 23 65

precision 0.065 0.065

#### GENE3732X

mean 0.3708 -0.1347

std. dev. 0.4807 0.7555

weight sum 23 70

precision 0.053 0.053

#### GENE3733X

mean 0.2732 -0.1967

std. dev. 0.4433 0.7634

weight sum 23 72

precision 0.0532 0.0532

#### GENE3734X

mean 0.3324 -0.2856

std. dev. 0.5686 1.1674

weight sum 23 72

precision 0.0642 0.0642

#### GENE3735X

mean 0.1942 -0.4149

std. dev. 0.5259 1.1352

weight sum 23 71

precision 0.0565 0.0565

#### GENE3570X

mean 0.2053 -0.1449

std. dev. 0.4632 0.8281

weight sum 23 71

precision 0.0422 0.0422

#### GENE3731X

mean 0.0892 -0.1447

std. dev. 0.5349 0.8477

weight sum 22 72

precision 0.0467 0.0467

#### GENE3730X

mean 0.2976 -0.38

std. dev. 0.7865 1.0561

weight sum 22 72

precision 0.0585 0.0585

#### GENE3701X

mean 0.1062 -0.215

std. dev. 0.8067 1.1193

weight sum 23 72

precision 0.0741 0.0741

#### GENE3702X

mean -0.2301 -0.0059

std. dev. 0.7947 1.111

weight sum 23 70

precision 0.0588 0.0588

#### GENE3706X

mean -0.3368 0.1081

std. dev. 0.73 1.1751

weight sum 20 64

precision 0.0596 0.0596

#### GENE3707X

mean -0.3375 0.0892

std. dev. 0.7681 1.2622

weight sum 23 69



precision 0.0669 0.0669

#### GENE3708X

mean -0.0241 -0.0239

std. dev. 0.5095 1.0283

weight sum 23 72

precision 0.0555 0.0555

#### GENE3709X

mean 0.0027 0.0475

std. dev. 0.4638 0.9837

weight sum 23 72

precision 0.0622 0.0622

#### GENE3710X

mean -0.1245 -0.0584

std. dev. 0.7147 1.0784

weight sum 23 68

precision 0.0584 0.0584

#### GENE3711X

mean -0.2816 -0.0505

std. dev. 0.7463 1.0522

weight sum 23 69

precision 0.0611 0.0611

#### GENE3712X

mean -0.1361 -0.1114

std. dev. 0.6164 1.0189

weight sum 23 70

precision 0.0614 0.0614

#### GENE3713X

mean -0.0113 -0.1531

std. dev. 0.7056 1.0631

weight sum 23 70

precision 0.0649 0.0649

#### GENE3714X

mean -0.0225 0.075

std. dev. 0.4584 0.6144

weight sum 22 72

precision 0.0329 0.0329

#### GENE3715X

mean -0.1665 -0.0211

std. dev. 0.4913 0.78

weight sum 22 70

precision 0.0421 0.0421

#### GENE3716X

mean -0.2904 -0.2035

std. dev. 0.8127 1.5393

weight sum 23 71

precision 0.0777 0.0777

#### GENE3717X

mean -0.2409 -0.2654

std. dev. 0.8104 1.5342

weight sum 22 72

precision 0.0746 0.0746

#### GENE3718X

mean -0.321 -0.0329

std. dev. 0.5506 0.8779

weight sum 22 71

precision 0.0477 0.0477

#### GENE3719X

mean -0.3562 -0.0031

std. dev. 0.402 0.6063

weight sum 21 67

precision 0.042 0.042

#### GENE3720X

mean -0.3798 0.0698

std. dev. 0.7008 0.7959

weight sum 23 70

precision 0.0801 0.0801

#### GENE3721X

mean -0.2621 0.0571

std. dev. 0.5533 0.7965

weight sum 23 70

precision 0.0563 0.0563

#### GENE3722X

mean -0.1076 -0.0505

std. dev. 0.753 0.952

weight sum 22 67

precision 0.0676 0.0676

#### GENE3723X

mean -0.118 -0.0331

std. dev. 0.6284 0.9625

weight sum 23 69

precision 0.0714 0.0714

#### GENE3724X

mean -0.0246 -0.1356

std. dev. 0.6928 1.1816

weight sum 23 71

precision 0.0629 0.0629

#### GENE3725X

mean -0.0029 -0.1305

std. dev. 0.776 1.3497

weight sum 23 71

precision 0.0676 0.0676

#### GENE3726X

mean 0.0304 -0.1449

std. dev. 0.7292 1.2216

weight sum 23 72

precision 0.07 0.07

#### GENE3727X

mean -0.1207 -0.1238

std. dev. 0.8087 1.2533

weight sum 23 70

precision 0.0677 0.0677

#### GENE2364X

mean -0.0034 -0.0491

std. dev. 1.1307 1.5724

weight sum 22 69

precision 0.0753 0.0753

#### GENE2363X

mean 0.4316 -0.2902

std. dev. 1.3719 1.6936

weight sum 22 70

precision 0.0879 0.0879

#### GENE2362X

mean 0.1016 -0.1006

std. dev. 0.3758 0.718

weight sum 23 72

precision 0.0383 0.0383

#### GENE2361X

mean 0.2296 -0.0087

std. dev. 0.4721 0.7971

weight sum 23 72

precision 0.0448 0.0448

#### GENE3697X

mean -0.1294 -0.1767

std. dev. 0.8748 1.1125

weight sum 23 71

precision 0.0709 0.0709

#### GENE3696X

mean 0.0187 -0.1556

std. dev. 0.4883 0.8613

weight sum 23 72

precision 0.0538 0.0538

#### GENE3694X

mean -0.1834 0.0071

std. dev. 0.6437 1.2663

weight sum 21 67

precision 0.0676 0.0676

#### GENE3695X

mean -0.5531 -0.3957

std. dev. 1.305 1.3744

weight sum 22 64

precision 0.0707 0.0707

#### GENE3691X

mean 0.0299 -0.4626

std. dev. 0.7189 1.1842

weight sum 21 68

precision 0.0697 0.0697

#### GENE3690X

mean -0.6072 -0.4091

std. dev. 1.962 1.7471

weight sum 22 72

precision 0.083 0.083

#### GENE3689X

mean -1.1379 -0.4914

std. dev. 2.4832 2.0929

weight sum 23 72

precision 0.0808 0.0808

#### GENE3688X

mean -1.0955 -0.3401

std. dev. 2.4881 2.1501

weight sum 23 72



precision 0.0887 0.0887

#### GENE3686X

mean -0.5563 -0.676

std. dev. 1.452 1.9798

weight sum 22 72

precision 0.0964 0.0964

#### GENE3684X

mean -0.0194 -0.327

std. dev. 1.4478 1.7094

weight sum 22 67

precision 0.1069 0.1069

#### GENE3685X

mean 0.258 -0.4472

std. dev. 1.4153 1.8067

weight sum 22 68

precision 0.1014 0.1014

#### GENE3683X

mean -0.209 -0.0572

std. dev. 0.5974 0.7328

weight sum 23 72

precision 0.0381 0.0381

#### GENE3682X

mean -0.3175 -0.0071

std. dev. 0.7199 0.9069

weight sum 23 72

precision 0.0462 0.0462

#### GENE3681X

mean -0.0374 -0.3025

std. dev. 0.7447 1.0161

weight sum 17 61

precision 0.0795 0.0795

#### GENE3678X

mean 0.0904 -0.2949

std. dev. 0.5569 1.095

weight sum 23 72

precision 0.0742 0.0742

#### GENE3657X

mean -0.0143 -0.4408

std. dev. 0.8484 1.4404

weight sum 23 69

precision 0.082 0.082

#### GENE3658X

mean -0.0296 -0.4161

std. dev. 0.8374 1.5319

weight sum 23 72

precision 0.0757 0.0757

#### GENE3659X

mean -0.0837 -0.5199

std. dev. 0.9718 1.687

weight sum 18 60

precision 0.0886 0.0886

#### GENE3660X

mean -0.0347 -0.4364

std. dev. 0.8653 1.562

weight sum 23 72

precision 0.0888 0.0888

#### GENE3677X

mean 0.1758 -0.2606

std. dev. 0.7894 1.2681

weight sum 23 72

precision 0.0809 0.0809

#### GENE3661X

mean 0.0614 -0.098

std. dev. 1.0406 0.9456

weight sum 17 59

precision 0.0803 0.0803

#### GENE3662X

mean 0.0872 -0.1596

std. dev. 0.8225 1.1438

weight sum 23 72

precision 0.0771 0.0771

#### GENE3676X

mean 0.0098 -0.4239

std. dev. 0.8282 1.6063

weight sum 23 72

precision 0.1126 0.1126

#### GENE3675X

mean -0.112 -0.333

std. dev. 0.7773 1.4556

weight sum 23 72

precision 0.0888 0.0888

#### GENE3680X

mean -0.1598 -0.3557

std. dev. 0.6603 1.4766

weight sum 23 71

precision 0.0967 0.0967

#### GENE3679X

mean 0.1815 -0.3104

std. dev. 0.6218 1.4286

weight sum 23 72

precision 0.087 0.087

#### GENE3674X

mean 0.0095 -0.1706

std. dev. 0.7805 1.1823

weight sum 23 72

precision 0.0731 0.0731

#### GENE3673X

mean -0.0656 -0.2954

std. dev. 0.9162 1.5009

weight sum 23 71

precision 0.0839 0.0839

#### GENE3666X

mean -0.5206 -0.4427

std. dev. 1.5244 1.7245

weight sum 20 66

precision 0.1119 0.1119

#### GENE3667X

mean -0.1237 -0.3509

std. dev. 1.2579 1.536

weight sum 23 72

precision 0.0837 0.0837

#### GENE3668X

mean -0.0111 -0.254

std. dev. 1.1333 1.2954

weight sum 23 72

precision 0.0851 0.0851

#### GENE3669X

mean -0.1021 -0.3647

std. dev. 1.27 1.4741

weight sum 23 72

precision 0.0839 0.0839

#### GENE3670X

mean -0.1796 -0.403

std. dev. 1.4581 1.5754

weight sum 23 72

precision 0.0939 0.0939

#### GENE3671X

mean -0.0935 -0.3232

std. dev. 1.5066 1.6519

weight sum 20 59

precision 0.1246 0.1246

#### GENE3672X

mean -0.0601 -0.1994

std. dev. 1.1464 1.2889

weight sum 23 71

precision 0.0814 0.0814

#### GENE3665X

mean -0.298 -0.3189

std. dev. 1.4266 1.5304

weight sum 23 72

precision 0.0857 0.0857

#### GENE3664X

mean 0.0545 -0.3053

std. dev. 1.3231 1.3699

weight sum 23 72

precision 0.0836 0.0836

#### GENE3663X

mean -0.0711 -0.3263

std. dev. 1.6235 1.4294

weight sum 23 72

precision 0.086 0.086

#### GENE3656X

mean -0.0333 -0.218

std. dev. 1.1677 1.2002

weight sum 23 72

precision 0.0957 0.0957

#### GENE3655X

mean -0.0951 -0.2278

std. dev. 1.3159 1.275

weight sum 23 72



precision 0.0911 0.0911

#### GENE3654X

mean -0.1076 -0.1652

std. dev. 0.8871 0.8775

weight sum 22 72

precision 0.0657 0.0657

#### GENE3653X

mean 0.042 -0.1157

std. dev. 0.6321 0.733

weight sum 23 72

precision 0.046 0.046

#### GENE3652X

mean 0.158 -0.062

std. dev. 0.4046 0.5266

weight sum 23 71

precision 0.0349 0.0349

#### GENE3640X

mean 0.6858 -0.1623

std. dev. 0.8725 1.1786

weight sum 23 70

precision 0.0748 0.0748

#### GENE3641X

mean 0.5602 -0.2422

std. dev. 0.6523 0.7313

weight sum 23 72

precision 0.0591 0.0591

#### GENE3642X

mean 0.529 -0.2335

std. dev. 0.7823 0.9005

weight sum 23 72

precision 0.0737 0.0737

#### GENE3643X

mean 0.377 -0.2846

std. dev. 0.7696 0.8998

weight sum 23 71

precision 0.0624 0.0624

#### GENE3644X

mean 0.4069 -0.1409

std. dev. 0.5336 0.6476

weight sum 23 72

precision 0.0393 0.0393

#### GENE3645X

mean 0.3457 -0.1328

std. dev. 0.5667 0.641

weight sum 21 64

precision 0.0427 0.0427

#### GENE3646X

mean 0.0518 -0.136

std. dev. 0.4941 0.664

weight sum 23 71

precision 0.0425 0.0425

#### GENE3647X

mean 0.2652 -0.2071

std. dev. 0.4584 0.8076

weight sum 23 72

precision 0.0554 0.0554

#### GENE3791X

mean -0.082 -0.2723

std. dev. 0.918 1.0252

weight sum 23 71

precision 0.0589 0.0589

#### GENE3792X

mean -0.0359 -0.2915

std. dev. 0.9983 1.1075

weight sum 23 71

precision 0.0635 0.0635

#### GENE3793X

mean 0.0127 0.0007

std. dev. 0.7043 0.7103

weight sum 18 62

precision 0.0459 0.0459

#### GENE3648X

mean 0.1681 -0.0646

std. dev. 1.0871 0.83

weight sum 23 72

precision 0.049 0.049

#### GENE3649X

mean 0.4181 -0.0195

std. dev. 1.0538 0.96

weight sum 22 71

precision 0.0554 0.0554

#### GENE3650X

mean 0.354 -0.1221

std. dev. 0.9641 0.926

weight sum 23 72

precision 0.059 0.059

#### GENE3651X

mean 0.2542 -0.3119

std. dev. 1.0801 1.0374

weight sum 22 54

precision 0.0666 0.0666

#### GENE3639X

mean 0.2104 -0.2036

std. dev. 0.5896 1.038

weight sum 23 72

precision 0.0701 0.0701

#### GENE3638X

mean 0.116 -0.0473

std. dev. 0.5576 0.6916

weight sum 23 72

precision 0.041 0.041

#### GENE3637X

mean -0.0671 -0.0066

std. dev. 0.7328 0.9095

weight sum 23 72

precision 0.0594 0.0594

#### GENE3636X

mean -0.1752 0.0486

std. dev. 0.5334 0.7501

weight sum 23 72

precision 0.0486 0.0486

#### GENE3635X

mean -0.1951 -0.0344

std. dev. 0.5616 0.8747

weight sum 23 72

precision 0.0575 0.0575

#### GENE3634X

mean -0.0132 0.0097

std. dev. 0.282 0.4152

weight sum 23 72

precision 0.0304 0.0304

#### GENE3559X

mean 0.0816 -0.213

std. dev. 0.7157 1.044

weight sum 23 72

precision 0.0782 0.0782

#### GENE3560X

mean 0.0851 -0.2107

std. dev. 0.7085 0.9759

weight sum 23 72

precision 0.0544 0.0544

#### GENE3542X

mean 0.2774 -0.2806

std. dev. 0.9738 0.8589

weight sum 23 68

precision 0.058 0.058

#### GENE3549X

mean -0.1225 -0.3034

std. dev. 1.636 1.4929

weight sum 19 62

precision 0.097 0.097

#### GENE3548X

mean -0.3047 -0.3102

std. dev. 1.8696 1.508

weight sum 21 58

precision 0.0927 0.0927

#### GENE3547X

mean -0.0417 -0.7971

std. dev. 2.4547 2.3572

weight sum 23 72

precision 0.1065 0.1065

#### GENE3546X

mean -0.1032 -0.9154

std. dev. 2.4577 2.3801

weight sum 23 72

precision 0.1079 0.1079

#### GENE3545X

mean -0.3038 -0.7557

std. dev. 2.2428 2.0807

weight sum 21 69



precision 0.11 0.11

#### GENE3544X

mean -0.0539 -1.0056

std. dev. 2.6021 2.3571

weight sum 23 72

precision 0.1128 0.1128

#### GENE3543X

mean 0.0607 -0.8463

std. dev. 2.2022 2.1999

weight sum 23 72

precision 0.1075 0.1075

#### GENE3550X

mean -0.0057 -0.0751

std. dev. 0.6392 0.713

weight sum 22 63

precision 0.0419 0.0419

#### GENE3833X

mean -1.1834 -0.1197

std. dev. 1.3528 1.6885

weight sum 21 67

precision 0.0872 0.0872

#### GENE3834X

mean -0.4196 0.1676

std. dev. 0.6096 1.1142

weight sum 22 69

precision 0.0543 0.0543

#### GENE3557X

mean 0.2622 -0.0144

std. dev. 0.5824 0.944

weight sum 21 61

precision 0.0626 0.0626

#### GENE3556X

mean 0.345 -0.0363

std. dev. 0.8061 1.215

weight sum 22 71

precision 0.0759 0.0759

#### GENE3555X

mean 0.1836 -0.2116

std. dev. 1.0054 1.2749

weight sum 23 71

precision 0.0812 0.0812

#### GENE3554X

mean 0.178 -0.1263

std. dev. 1.0185 1.1306

weight sum 23 71

precision 0.0706 0.0706

#### GENE3553X

mean 0.4842 -0.3519

std. dev. 0.7192 1.1646

weight sum 22 70

precision 0.074 0.074

#### GENE3552X

mean 0.4612 -0.1478

std. dev. 0.8046 0.9573

weight sum 21 62

precision 0.0745 0.0745

#### GENE3938X

mean 0.0049 -0.3075

std. dev. 0.7914 0.9338

weight sum 21 63

precision 0.051 0.051

#### GENE3536X

mean 0.3057 0.0434

std. dev. 0.8079 0.7112

weight sum 21 65

precision 0.06 0.06

#### GENE3537X

mean 0.216 -0.0461

std. dev. 0.7569 0.8451

weight sum 20 59

precision 0.08 0.08

#### GENE3538X

mean 0.0939 -0.1548

std. dev. 0.5512 0.5446

weight sum 18 59

precision 0.0528 0.0528

#### GENE3539X

mean -0.0687 -0.0656

std. dev. 0.5317 0.6512

weight sum 23 69

precision 0.0359 0.0359

#### GENE3551X

mean 0.0739 -0.075

std. dev. 0.2361 0.3707

weight sum 23 72

precision 0.0298 0.0298

#### GENE2039X

mean -0.1051 -0.0177

std. dev. 0.3811 0.4585

weight sum 23 69

precision 0.0284 0.0284

#### GENE3433X

mean -0.0408 -0.1227

std. dev. 0.4501 0.8598

weight sum 23 72

precision 0.0427 0.0427

#### GENE3434X

mean 0.1464 -0.1481

std. dev. 0.4988 0.8623

weight sum 23 72

precision 0.0561 0.0561

#### GENE3472X

mean 0.1038 -0.1683

std. dev. 0.8616 1.125

weight sum 23 62

precision 0.0884 0.0884

#### GENE3471X

mean 0.1762 -0.1775

std. dev. 0.8524 1.0384

weight sum 21 67

precision 0.0607 0.0607

#### GENE3418X

mean 0.1183 -0.0622

std. dev. 0.4002 0.4553

weight sum 23 72

precision 0.0332 0.0332

#### GENE3419X

mean -0.183 -0.1165

std. dev. 1.0192 1.1672

weight sum 23 71

precision 0.0726 0.0726

#### GENE3420X

mean -0.1792 -0.1421

std. dev. 1.1612 1.2883

weight sum 23 72

precision 0.071 0.071

#### GENE3421X

mean 0.2145 0.1501

std. dev. 1.612 2.1451

weight sum 23 70

precision 0.1072 0.1072

#### GENE3422X

mean 0.0089 0.0157

std. dev. 1.6246 2.0722

weight sum 23 72

precision 0.1025 0.1025

#### GENE3423X

mean 0.2019 0.1279

std. dev. 1.6597 2.0701

weight sum 23 71

precision 0.1032 0.1032

#### GENE3424X

mean 0.2089 0.1791

std. dev. 1.6666 2.0421

weight sum 23 71

precision 0.1001 0.1001

#### GENE3425X

mean 0.1589 -0.1162

std. dev. 1.6484 2.0147

weight sum 23 71

precision 0.0937 0.0937

#### GENE3426X

mean 0.2517 0.1739

std. dev. 1.4751 1.5963

weight sum 23 71

precision 0.0772 0.0772

#### GENE3427X

mean 0.1395 0.2744

std. dev. 1.4649 1.7212

weight sum 23 72



precision 0.0844 0.0844

#### GENE3428X

mean -0.0204 0.1533

std. dev. 1.4938 1.5819

weight sum 22 68

precision 0.0899 0.0899

#### GENE3429X

mean -0.281 0.0123

std. dev. 1.0895 1.2367

weight sum 23 72

precision 0.0634 0.0634

#### GENE3430X

mean 0.141 0.0572

std. dev. 0.6238 0.735

weight sum 23 72

precision 0.0438 0.0438

#### GENE3431X

mean -0.2249 0.1007

std. dev. 0.9002 1.022

weight sum 23 71

precision 0.0581 0.0581

#### GENE3432X

mean -0.0516 -0.0028

std. dev. 0.5109 0.5942

weight sum 22 71

precision 0.0391 0.0391

#### GENE3479X

mean -0.0773 0.0817

std. dev. 0.693 0.6309

weight sum 21 66

precision 0.0439 0.0439

#### GENE3478X

mean -0.0823 0.0796

std. dev. 0.9164 0.857

weight sum 23 72

precision 0.0556 0.0556

#### GENE3477X

mean -0.1885 0.0874

std. dev. 0.8521 0.8576

weight sum 22 68

precision 0.056 0.056

#### GENE3476X

mean 0.0709 0.0954

std. dev. 0.8023 0.7234

weight sum 22 63

precision 0.0557 0.0557

#### GENE3475X

mean 0.0125 0.0948

std. dev. 0.8744 0.8325

weight sum 22 63

precision 0.0686 0.0686

#### GENE3474X

mean -0.0173 0.0321

std. dev. 0.4747 0.4668

weight sum 23 66

precision 0.0307 0.0307

#### GENE3473X

mean -0.1682 -0.0379

std. dev. 0.8557 0.6567

weight sum 19 62

precision 0.0603 0.0603

#### GENE3840X

mean -0.4013 -0.0142

std. dev. 1.1052 1.1757

weight sum 23 72

precision 0.0641 0.0641

#### GENE3841X

mean -0.3151 0.0617

std. dev. 0.8472 1.0652

weight sum 23 69

precision 0.0636 0.0636

#### GENE3961X

mean 0.2253 -0.0787

std. dev. 0.583 0.5275

weight sum 23 71

precision 0.0408 0.0408

#### GENE3216X

mean -0.0338 0.0675

std. dev. 0.32 0.4668

weight sum 23 71

precision 0.0324 0.0324

#### GENE3217X

mean 0.1149 -0.0353

std. dev. 0.326 0.4401

weight sum 23 71

precision 0.0343 0.0343

#### GENE3218X

mean -0.1079 -0.0047

std. dev. 0.6939 0.4776

weight sum 23 72

precision 0.0421 0.0421

#### GENE3995X

mean 0.1823 0.0946

std. dev. 0.6038 0.759

weight sum 23 71

precision 0.0505 0.0505

#### GENE2560X

mean -0.0803 0.1524

std. dev. 0.4241 0.5839

weight sum 21 69

precision 0.0401 0.0401

#### GENE2561X

mean -0.3345 0.0946

std. dev. 0.5237 0.718

weight sum 21 58

precision 0.0513 0.0513

#### GENE1839X

mean -0.0347 0.0413

std. dev. 0.302 0.6617

weight sum 20 64

precision 0.0434 0.0434

#### GENE1840X

mean -0.1112 0.1776

std. dev. 0.4796 0.7141

weight sum 20 65

precision 0.0464 0.0464

#### GENE4X

mean 0.0562 -0.0108

std. dev. 0.4011 0.4158

weight sum 19 60

precision 0.0324 0.0324

#### GENE1889X

mean 0.0408 -0.0159

std. dev. 0.6349 0.5841

weight sum 23 68

precision 0.047 0.047

#### GENE3145X

mean 0.0528 -0.0641

std. dev. 0.3738 0.4955

weight sum 21 70

precision 0.0444 0.0444

#### GENE3064X

mean -0.0415 -0.0183

std. dev. 0.5371 0.538

weight sum 22 63

precision 0.048 0.048

#### GENE3142X

mean 0.1367 0.0232

std. dev. 0.4466 0.4564

weight sum 21 64

precision 0.0463 0.0463

#### GENE3143X

mean -0.1606 0.0289

std. dev. 0.4292 0.4954

weight sum 23 68

precision 0.0468 0.0468

#### GENE1091X

mean -0.0829 -0.0541

std. dev. 0.4669 0.3829

weight sum 19 61

precision 0.0375 0.0375

#### GENE2589X

mean -0.1737 0.0958

std. dev. 0.377 0.4601

weight sum 23 72

precision 0.0296 0.0296

#### GENE2590X

mean -0.1009 0.0251

std. dev. 0.3725 0.3757

weight sum 21 67



precision 0.0336 0.0336

#### GENE3899X

mean -0.1888 0.0162

std. dev. 0.359 0.3434

weight sum 23 71

precision 0.0295 0.0295

#### GENE2552X

mean -0.2 0.0324

std. dev. 0.3146 0.4113

weight sum 22 71

precision 0.0333 0.0333

#### GENE2570X

mean -0.0461 0.0422

std. dev. 0.4855 0.4458

weight sum 21 71

precision 0.0484 0.0484

#### GENE2548X

mean -0.2654 0.0595

std. dev. 0.3602 0.6401

weight sum 23 71

precision 0.0671 0.0671

#### GENE2569X

mean -0.124 0.1173

std. dev. 0.3968 0.5412

weight sum 23 71

precision 0.0453 0.0453

#### GENE2566X

mean -0.0146 0.0412

std. dev. 0.6105 0.5091

weight sum 20 67

precision 0.0418 0.0418

#### GENE2632X

mean 0.0491 0.1316

std. dev. 0.8892 0.7091

weight sum 22 64

precision 0.054 0.054

#### GENE3077X

mean -0.1313 0.1026

std. dev. 0.6873 0.7675

weight sum 20 58

precision 0.0584 0.0584

#### GENE3105X

mean -0.1117 0.0781

std. dev. 0.3124 0.4939

weight sum 23 72

precision 0.0372 0.0372

#### GENE3106X

mean -0.0852 0.0714

std. dev. 0.4272 0.5579

weight sum 23 69

precision 0.0503 0.0503

#### GENE3107X

mean -0.0865 0.0427

std. dev. 0.4238 0.5004

weight sum 23 72

precision 0.0301 0.0301

#### GENE3108X

mean -0.1293 0.1087

std. dev. 0.4418 0.4776

weight sum 22 69

precision 0.037 0.037

#### GENE2567X

mean -0.2955 0.1638

std. dev. 0.6163 0.7308

weight sum 23 70

precision 0.0519 0.0519

#### GENE2568X

mean -0.4465 0.0535

std. dev. 0.6612 0.8251

weight sum 23 68

precision 0.0587 0.0587

#### GENE3213X

mean -0.1073 -0.0959

std. dev. 0.6054 0.7317

weight sum 22 69

precision 0.0463 0.0463

#### GENE2562X

mean -0.2613 0.0857

std. dev. 0.4469 0.5961

weight sum 16 61

precision 0.0475 0.0475

#### GENE2563X

mean 0.0202 0.088

std. dev. 0.4075 0.582

weight sum 21 68

precision 0.0424 0.0424

#### GENE2564X

mean -0.119 0.0736

std. dev. 0.6044 0.5108

weight sum 21 65

precision 0.0543 0.0543

#### GENE2565X

mean -0.1548 0.1216

std. dev. 0.5662 0.5593

weight sum 23 72

precision 0.0419 0.0419

#### GENE3095X

mean -0.0655 0.0084

std. dev. 0.2966 0.5172

weight sum 23 72

precision 0.0431 0.0431

#### GENE3094X

mean 0.1273 -0.0922

std. dev. 0.2732 0.5244

weight sum 22 70

precision 0.0341 0.0341

#### GENE3093X

mean 0.213 -0.1402

std. dev. 0.27 0.44

weight sum 23 71

precision 0.0308 0.0308

#### GENE3096X

mean -0.01 -0.0583

std. dev. 0.4516 0.4932

weight sum 18 62

precision 0.0452 0.0452

#### GENE2547X

mean -0.1447 0.0246

std. dev. 0.3297 0.4728

weight sum 23 71

precision 0.0336 0.0336

#### GENE2546X

mean -0.1601 0.0852

std. dev. 0.4483 0.496

weight sum 23 72

precision 0.0351 0.0351

#### GENE2545X

mean -0.5005 0.1599

std. dev. 0.7782 0.8426

weight sum 23 72

precision 0.0546 0.0546

#### GENE2069X

mean -0.4077 0.1684

std. dev. 0.4936 0.6248

weight sum 22 70

precision 0.044 0.044

#### GENE2068X

mean -0.5231 0.0725

std. dev. 0.7129 0.7381

weight sum 23 71

precision 0.0481 0.0481

#### GENE3085X

mean -0.1276 0.0428

std. dev. 0.319 0.5522

weight sum 23 71

precision 0.0345 0.0345

#### GENE3084X

mean -0.09 0.0843

std. dev. 0.4198 0.5648

weight sum 23 72

precision 0.0276 0.0276

#### GENE3083X

mean -0.1502 0.162

std. dev. 0.3937 0.5683

weight sum 21 69

precision 0.0343 0.0343

#### GENE1928X

mean -0.0349 0.3569

std. dev. 0.8893 1.1237

weight sum 20 63



precision 0.0775 0.0775

#### GENE1929X

mean -0.0224 0.1997

std. dev. 0.775 1.1603

weight sum 18 61

precision 0.0673 0.0673

#### GENE3541X

mean -0.0549 0.0872

std. dev. 1.3101 1.2853

weight sum 23 67

precision 0.0664 0.0664

#### GENE3839X

mean 0.4317 -0.8718

std. dev. 2.5948 2.3347

weight sum 23 72

precision 0.1182 0.1182

#### GENE3838X

mean -0.1589 -0.9724

std. dev. 2.3768 2.471

weight sum 23 72

precision 0.1108 0.1108

#### GENE3837X

mean -0.1189 -0.8997

std. dev. 2.3649 2.3386

weight sum 22 60

precision 0.1377 0.1377

#### GENE3836X

mean -0.5363 -0.988

std. dev. 2.0961 2.5494

weight sum 23 70

precision 0.0914 0.0914

#### GENE3835X

mean -0.608 -1.0008

std. dev. 1.8743 2.4209

weight sum 23 72

precision 0.0971 0.0971

#### GENE2485X

mean -0.3335 0.108

std. dev. 0.3867 0.7391

weight sum 20 64

precision 0.0407 0.0407

#### GENE2486X

mean -0.2663 0.4729

std. dev. 0.8345 1.5295

weight sum 22 71

precision 0.0658 0.0658

#### GENE2487X

mean -0.3757 0.6594

std. dev. 1.2651 1.9311

weight sum 22 69

precision 0.0802 0.0802

#### GENE2488X

mean -0.3105 0.5801

std. dev. 1.0772 1.7276

weight sum 21 69

precision 0.0758 0.0758

#### GENE2489X

mean -0.3013 0.5782

std. dev. 1.198 1.9497

weight sum 22 72

precision 0.0808 0.0808

#### GENE2490X

mean -0.2264 0.3299

std. dev. 0.3491 0.7372

weight sum 21 69

precision 0.0457 0.0457

#### GENE2491X

mean -0.2865 0.1508

std. dev. 0.3943 0.5296

weight sum 23 71

precision 0.0358 0.0358

#### GENE1887X

mean -0.5639 0.1988

std. dev. 0.5389 0.7702

weight sum 21 63

precision 0.0485 0.0485

#### GENE1888X

mean -0.307 0.1736

std. dev. 0.5032 0.5228

weight sum 21 67

precision 0.0384 0.0384

#### GENE2467X

mean -0.2634 0.1704

std. dev. 0.4341 0.5473

weight sum 20 71

precision 0.0412 0.0412

#### GENE2549X

mean -0.3479 0.062

std. dev. 0.4863 0.4803

weight sum 21 69

precision 0.0379 0.0379

#### GENE1913X

mean -0.0423 0.1122

std. dev. 0.5647 0.578

weight sum 23 66

precision 0.0423 0.0423

#### GENE1385X

mean 0.0133 0.0291

std. dev. 0.3679 0.4028

weight sum 21 65

precision 0.031 0.031

#### GENE1893X

mean -0.0863 0.0337

std. dev. 0.4976 0.5995

weight sum 20 64

precision 0.0431 0.0431

#### GENE1915X

mean 0.0028 0.0093

std. dev. 0.2775 0.3626

weight sum 22 69

precision 0.0306 0.0306

#### GENE1914X

mean -0.1709 -0.0103

std. dev. 0.3782 0.4738

weight sum 21 64

precision 0.0366 0.0366

#### GENE2688X

mean -0.1988 0.0495

std. dev. 0.467 0.5299

weight sum 20 59

precision 0.0423 0.0423

#### GENE1922X

mean -0.2426 0.0188

std. dev. 0.3978 0.4814

weight sum 20 64

precision 0.0317 0.0317

#### GENE1919X

mean -0.0689 -0.0066

std. dev. 0.3767 0.4564

weight sum 22 56

precision 0.041 0.041

#### GENE1918X

mean -0.0964 -0.086

std. dev. 0.418 0.485

weight sum 21 60

precision 0.0397 0.0397

#### GENE1920X

mean -0.1152 0.0232

std. dev. 0.3149 0.4555

weight sum 20 57

precision 0.0378 0.0378

#### GENE1917X

mean -0.1967 0.0261

std. dev. 0.3385 0.4058

weight sum 19 66

precision 0.0325 0.0325

#### GENE1908X

mean -0.1813 0.051

std. dev. 0.3865 0.4977

weight sum 21 71

precision 0.0309 0.0309

#### GENE1907X

mean -0.0551 0.031

std. dev. 0.5161 0.5924

weight sum 21 60

precision 0.0503 0.0503

#### GENE1906X

mean -0.0374 0.0878

std. dev. 0.4224 0.4239

weight sum 20 65



precision 0.0394 0.0394

#### GENE1905X

mean 0.0924 0.0322

std. dev. 0.5939 0.4688

weight sum 23 61

precision 0.0531 0.0531

#### GENE1904X

mean 0.075 0.017

std. dev. 0.6138 0.5898

weight sum 21 61

precision 0.0492 0.0492

#### GENE1903X

mean -0.0282 0.0626

std. dev. 0.6839 0.6402

weight sum 21 55

precision 0.0538 0.0538

#### GENE1902X

mean 0.0093 0.0013

std. dev. 0.6053 0.5649

weight sum 23 64

precision 0.0426 0.0426

#### GENE1898X

mean -0.004 -0.0185

std. dev. 0.4885 0.3727

weight sum 19 67

precision 0.0375 0.0375

#### GENE1899X

mean -0.2233 0.071

std. dev. 0.389 0.5268

weight sum 22 64

precision 0.0614 0.0614

#### GENE1896X

mean -0.0277 -0.0435

std. dev. 0.251 0.3413

weight sum 18 64

precision 0.0357 0.0357

#### GENE1897X

mean 0.0118 -0.0471

std. dev. 0.3203 0.5265

weight sum 21 58

precision 0.0496 0.0496

#### GENE1900X

mean 0.1084 -0.001

std. dev. 0.408 0.4082

weight sum 21 64

precision 0.0321 0.0321

#### GENE1892X

mean -0.044 -0.0527

std. dev. 0.4702 0.496

weight sum 23 60

precision 0.0422 0.0422

#### GENE1891X

mean -0.0971 -0.0018

std. dev. 0.5096 0.6324

weight sum 22 61

precision 0.0548 0.0548

#### GENE1890X

mean 0.0651 0.0447

std. dev. 0.4398 0.4878

weight sum 23 66

precision 0.0428 0.0428

#### GENE1912X

mean 0.0518 -0.0777

std. dev. 0.3727 0.6045

weight sum 22 71

precision 0.0356 0.0356

#### GENE2634X

mean -0.3151 0.1824

std. dev. 0.6637 0.7915

weight sum 19 62

precision 0.0665 0.0665

#### GENE2987X

mean 0.007 0.0234

std. dev. 0.4403 0.4695

weight sum 20 68

precision 0.0468 0.0468

#### GENE2041X

mean -0.1674 0.1226

std. dev. 0.3584 0.5

weight sum 21 63

precision 0.0463 0.0463

#### GENE2040X

mean 0.0119 0.1514

std. dev. 0.5435 0.6779

weight sum 23 71

precision 0.0389 0.0389

#### GENE2038X

mean 0.0083 0.0663

std. dev. 0.3901 0.4756

weight sum 23 70

precision 0.0318 0.0318

#### GENE2037X

mean -0.0393 -0.0098

std. dev. 0.3139 0.4279

weight sum 23 69

precision 0.0377 0.0377

#### GENE2517X

mean 0.0915 0.0005

std. dev. 0.4438 0.5091

weight sum 23 72

precision 0.0376 0.0376

#### GENE2516X

mean -0.0535 0.1689

std. dev. 0.5828 0.5831

weight sum 23 72

precision 0.0362 0.0362

#### GENE2515X

mean -0.1661 0.1538

std. dev. 0.5598 0.5965

weight sum 23 72

precision 0.0386 0.0386

#### GENE2514X

mean -0.346 0.1772

std. dev. 0.9381 1.1383

weight sum 23 72

precision 0.0658 0.0658

#### GENE2513X

mean -0.3027 0.1353

std. dev. 0.445 0.8613

weight sum 23 72

precision 0.0427 0.0427

#### GENE2512X

mean -0.4491 0.0693

std. dev. 0.4771 0.8971

weight sum 23 69

precision 0.0483 0.0483

#### GENE2511X

mean -0.3107 0.0321

std. dev. 0.7101 0.8373

weight sum 22 70

precision 0.0522 0.0522

#### GENE2510X

mean -0.1667 0.1532

std. dev. 0.6213 0.7379

weight sum 22 69

precision 0.0622 0.0622

#### GENE2509X

mean -0.2144 -0.0327

std. dev. 0.6127 0.7425

weight sum 21 68

precision 0.0518 0.0518

#### GENE2050X

mean -0.2636 0.0452

std. dev. 0.4161 0.4544

weight sum 23 72

precision 0.037 0.037

#### GENE2049X

mean -0.2165 0.0429

std. dev. 0.4748 0.4989

weight sum 23 70

precision 0.0366 0.0366

#### GENE2048X

mean -0.335 0.1152

std. dev. 0.7081 0.6262

weight sum 21 69

precision 0.0572 0.0572

#### GENE2047X

mean -0.0815 -0.0876

std. dev. 0.5713 0.3948

weight sum 23 69



precision 0.0521 0.0521

#### GENE3042X

mean 0.1201 -0.0584

std. dev. 0.5787 0.5084

weight sum 22 60

precision 0.0455 0.0455

#### GENE3041X

mean 0.1618 -0.2099

std. dev. 0.8024 0.6027

weight sum 21 65

precision 0.0548 0.0548

#### GENE3040X

mean 0.0533 -0.028

std. dev. 0.7249 0.4643

weight sum 19 68

precision 0.0595 0.0595

#### GENE3051X

mean 0.1773 -0.0163

std. dev. 0.4057 0.4363

weight sum 23 71

precision 0.0321 0.0321

#### GENE3050X

mean 0.139 -0.0059

std. dev. 0.4596 0.4299

weight sum 23 71

precision 0.0381 0.0381

#### GENE3043X

mean 0.029 -0.0415

std. dev. 0.7109 0.6982

weight sum 23 70

precision 0.0477 0.0477

#### GENE3044X

mean 0.04 0.0997

std. dev. 0.6453 0.5422

weight sum 22 68

precision 0.0419 0.0419

#### GENE3045X

mean 0.0165 0.047

std. dev. 0.6144 0.5349

weight sum 23 70

precision 0.0422 0.0422

#### GENE3049X

mean 0.1921 -0.0189

std. dev. 0.5042 0.4804

weight sum 22 71

precision 0.0497 0.0497

#### GENE3048X

mean 0.0353 -0.0758

std. dev. 0.5549 0.4576

weight sum 21 60

precision 0.0464 0.0464

#### GENE2961X

mean -0.2586 0.0027

std. dev. 0.7109 0.5186

weight sum 19 61

precision 0.054 0.054

#### GENE3047X

mean -0.1969 -0.071

std. dev. 0.5005 0.4894

weight sum 22 68

precision 0.0416 0.0416

#### GENE3046X

mean -0.1215 0.033

std. dev. 0.4292 0.462

weight sum 23 66

precision 0.0325 0.0325

#### GENE2582X

mean -0.0511 0.0643

std. dev. 0.4257 0.4288

weight sum 20 61

precision 0.0426 0.0426

#### GENE1944X

mean -0.2097 0.0911

std. dev. 0.7233 0.6629

weight sum 19 65

precision 0.0538 0.0538

#### GENE3109X

mean -0.185 0.066

std. dev. 0.5745 0.6918

weight sum 23 71

precision 0.0617 0.0617

#### GENE2522X

mean -0.1006 0.0035

std. dev. 0.5304 0.6196

weight sum 23 72

precision 0.0421 0.0421

#### GENE2523X

mean -0.1403 0.0332

std. dev. 0.5344 0.6051

weight sum 23 70

precision 0.0475 0.0475

#### GENE2530X

mean -0.0936 0.1442

std. dev. 0.4037 0.6976

weight sum 23 72

precision 0.0633 0.0633

#### GENE2529X

mean -0.1145 0.1359

std. dev. 0.4417 0.6073

weight sum 22 71

precision 0.0475 0.0475

#### GENE2528X

mean -0.178 0.1018

std. dev. 0.3312 0.5638

weight sum 23 71

precision 0.0401 0.0401

#### GENE2527X

mean -0.1692 0.1146

std. dev. 0.7141 1.0313

weight sum 23 72

precision 0.0671 0.0671

#### GENE2526X

mean -0.17 0.104

std. dev. 0.7223 0.9535

weight sum 23 72

precision 0.0559 0.0559

#### GENE2551X

mean -0.1702 0.0582

std. dev. 0.331 0.3506

weight sum 22 72

precision 0.0297 0.0297

#### GENE2043X

mean -0.1086 0.2071

std. dev. 0.3345 0.6705

weight sum 23 69

precision 0.0543 0.0543

#### GENE2044X

mean -0.1853 0.1425

std. dev. 0.4225 0.6434

weight sum 23 72

precision 0.0526 0.0526

#### GENE2046X

mean -0.0524 0.1167

std. dev. 0.518 0.4619

weight sum 23 69

precision 0.0317 0.0317

#### GENE2045X

mean -0.2686 0.147

std. dev. 0.4225 0.5936

weight sum 22 65

precision 0.0384 0.0384

#### GENE2444X

mean -0.2761 -0.0555

std. dev. 0.8961 0.8269

weight sum 18 60

precision 0.0497 0.0497

#### GENE2448X

mean -0.2133 0.0867

std. dev. 0.5652 0.6045

weight sum 22 72

precision 0.0456 0.0456

#### GENE2449X

mean -0.0951 -0.0248

std. dev. 0.5396 0.5669

weight sum 20 68

precision 0.0432 0.0432

#### GENE1937X

mean -0.073 0.09

std. dev. 0.5937 0.571

weight sum 23 72



precision 0.04 0.04

#### GENE1936X

mean -0.1221 0.1211

std. dev. 0.5041 0.5588

weight sum 23 72

precision 0.033 0.033

#### GENE1935X

mean -0.212 0.0925

std. dev. 0.564 0.6081

weight sum 22 61

precision 0.0444 0.0444

#### GENE1938X

mean -0.0441 -0.0543

std. dev. 0.3443 0.5815

weight sum 22 63

precision 0.057 0.057

#### GENE2508X

mean -0.052 0.0135

std. dev. 0.5362 0.4674

weight sum 22 63

precision 0.0424 0.0424

#### GENE2052X

mean -0.3196 0.1757

std. dev. 0.658 0.7557

weight sum 23 72

precision 0.0603 0.0603

#### GENE2053X

mean -0.3723 0.1039

std. dev. 0.7152 0.8573

weight sum 20 69

precision 0.0696 0.0696

#### GENE2054X

mean -0.309 0.103

std. dev. 0.4824 0.7318

weight sum 20 71

precision 0.0472 0.0472

#### GENE2055X

mean -0.0669 0.0357

std. dev. 0.4055 0.5594

weight sum 22 70

precision 0.0368 0.0368

#### GENE2056X

mean -0.2179 0.1137

std. dev. 0.6178 0.6373

weight sum 21 69

precision 0.0503 0.0503

#### GENE2992X

mean -0.0868 -0.0005

std. dev. 0.3812 0.388

weight sum 23 62

precision 0.0333 0.0333

#### GENE2928X

mean -0.2715 0.1523

std. dev. 0.5792 0.7416

weight sum 22 72

precision 0.0703 0.0703

#### GENE2929X

mean -0.2216 0.1164

std. dev. 0.4193 0.6135

weight sum 23 69

precision 0.0554 0.0554

#### GENE2051X

mean -0.0325 0.1139

std. dev. 0.3934 0.5613

weight sum 21 68

precision 0.0487 0.0487

#### GENE1925X

mean -0.2744 0.0209

std. dev. 0.5302 0.7403

weight sum 21 69

precision 0.0686 0.0686

#### GENE2518X

mean -0.169 0.0762

std. dev. 0.4934 0.6615

weight sum 21 63

precision 0.05 0.05

#### GENE2519X

mean -0.3288 -0.0106

std. dev. 0.7224 0.9121

weight sum 20 59

precision 0.0783 0.0783

#### GENE1911X

mean -0.0607 0.1143

std. dev. 0.4623 0.5706

weight sum 18 61

precision 0.0683 0.0683

#### GENE1910X

mean 0.0317 0.115

std. dev. 0.3238 0.5456

weight sum 22 60

precision 0.0367 0.0367

#### GENE2057X

mean -0.1579 -0.1235

std. dev. 0.5828 0.6589

weight sum 23 70

precision 0.0576 0.0576

#### GENE2058X

mean -0.0911 0.0255

std. dev. 0.3802 0.5675

weight sum 21 67

precision 0.0517 0.0517

#### GENE2059X

mean 0.0784 -0.0289

std. dev. 0.3554 0.4081

weight sum 22 65

precision 0.0308 0.0308

#### GENE2060X

mean -0.1323 -0.0766

std. dev. 0.4483 0.7523

weight sum 23 71

precision 0.0461 0.0461

#### GENE2061X

mean -0.104 -0.0766

std. dev. 0.3582 0.6773

weight sum 23 68

precision 0.0613 0.0613

#### GENE2062X

mean 0.0576 -0.1081

std. dev. 0.333 0.4401

weight sum 23 68

precision 0.0349 0.0349

#### GENE2063X

mean 0.0426 -0.0032

std. dev. 0.4103 0.5686

weight sum 22 69

precision 0.0446 0.0446

#### GENE2064X

mean 0.0368 0.0515

std. dev. 0.4119 0.4956

weight sum 22 70

precision 0.0368 0.0368

#### GENE1916X

mean -0.4311 0.0507

std. dev. 0.6492 0.5859

weight sum 18 61

precision 0.0476 0.0476

#### GENE2116X

mean -0.5834 0.1299

std. dev. 0.6171 0.6479

weight sum 18 67

precision 0.0544 0.0544

#### GENE2070X

mean -0.4437 0.1514

std. dev. 0.7623 0.8526

weight sum 20 63

precision 0.0555 0.0555

#### GENE2073X

mean -0.06 0.1756

std. dev. 0.3369 0.6163

weight sum 21 68

precision 0.06 0.06

#### GENE2492X

mean -0.186 0.0934

std. dev. 0.4742 0.5902

weight sum 22 68

precision 0.0382 0.0382

#### GENE2493X

mean -0.038 0.0047

std. dev. 0.2578 0.3962

weight sum 18 64



precision 0.038 0.038

#### GENE2494X

mean -0.226 0.0762

std. dev. 0.6057 1.0863

weight sum 21 64

precision 0.065 0.065

#### GENE2495X

mean 0.1122 0.2619

std. dev. 0.6892 1.368

weight sum 23 72

precision 0.0717 0.0717

#### GENE2496X

mean -0.4664 0.2389

std. dev. 0.6289 0.967

weight sum 20 65

precision 0.0504 0.0504

#### GENE2497X

mean -0.0921 0.0079

std. dev. 0.2254 0.5451

weight sum 23 72

precision 0.0378 0.0378

#### GENE2498X

mean -0.0964 -0.0797

std. dev. 0.2607 0.5847

weight sum 23 70

precision 0.0396 0.0396

#### GENE2499X

mean 0.1855 0.0961

std. dev. 0.6619 0.6702

weight sum 23 70

precision 0.0474 0.0474

#### GENE2500X

mean 0.1048 0.1302

std. dev. 0.5983 0.6558

weight sum 21 69

precision 0.044 0.044

#### GENE2501X

mean -0.0511 0.2632

std. dev. 0.6892 1.1189

weight sum 17 63

precision 0.0668 0.0668

#### GENE2502X

mean 0.0132 0.1797

std. dev. 0.6816 1.1635

weight sum 21 67

precision 0.0692 0.0692

#### GENE2503X

mean -0.0679 0.1758

std. dev. 0.6106 0.6541

weight sum 20 63

precision 0.0438 0.0438

#### GENE2504X

mean -0.0429 0.16

std. dev. 0.7784 0.8371

weight sum 22 67

precision 0.0472 0.0472

#### GENE2071X

mean -0.3375 0.1695

std. dev. 0.6084 0.6651

weight sum 21 72

precision 0.0469 0.0469

#### GENE2466X

mean -0.2062 0.0957

std. dev. 0.486 0.4986

weight sum 22 70

precision 0.0424 0.0424

#### GENE2936X

mean -0.2124 0.059

std. dev. 0.2425 0.3808

weight sum 22 71

precision 0.0302 0.0302

#### GENE2935X

mean -0.2976 0.1168

std. dev. 0.5656 0.5585

weight sum 23 70

precision 0.0415 0.0415

#### GENE2934X

mean -0.2226 0.1009

std. dev. 0.6131 0.6467

weight sum 22 69

precision 0.0449 0.0449

#### GENE2458X

mean -0.2438 0.0941

std. dev. 0.4215 0.5639

weight sum 22 62

precision 0.0426 0.0426

#### GENE2457X

mean -0.298 0.1146

std. dev. 0.6621 0.8555

weight sum 20 59

precision 0.067 0.067

#### GENE2456X

mean -0.1727 0.0556

std. dev. 0.5426 0.56

weight sum 23 67

precision 0.041 0.041

#### GENE2455X

mean 0.0755 0.0772

std. dev. 0.8487 0.9308

weight sum 21 71

precision 0.0661 0.0661

#### GENE2454X

mean -0.1031 0.0911

std. dev. 0.3573 0.6193

weight sum 19 63

precision 0.0455 0.0455

#### GENE2453X

mean -0.195 -0.0049

std. dev. 0.444 0.8073

weight sum 19 63

precision 0.0617 0.0617

#### GENE2451X

mean -0.326 -0.0012

std. dev. 0.9098 0.8472

weight sum 18 62

precision 0.0716 0.0716

#### GENE2452X

mean -0.2931 0.1538

std. dev. 0.728 0.8421

weight sum 23 68

precision 0.0688 0.0688

#### GENE2450X

mean -0.0938 0.1407

std. dev. 0.7667 0.6685

weight sum 21 63

precision 0.0469 0.0469

#### GENE2446X

mean 0.0807 0.1044

std. dev. 0.7341 0.7891

weight sum 20 61

precision 0.0449 0.0449

#### GENE2445X

mean -0.0113 0.0465

std. dev. 0.6261 0.7099

weight sum 18 59

precision 0.0508 0.0508

#### GENE2439X

mean 0.095 0.0308

std. dev. 0.5176 0.8477

weight sum 23 71

precision 0.0508 0.0508

#### GENE2440X

mean -0.0383 0.037

std. dev. 0.6518 0.7736

weight sum 22 71

precision 0.0526 0.0526

#### GENE2441X

mean -0.2664 -0.0334

std. dev. 0.6392 0.8266

weight sum 21 71

precision 0.0447 0.0447

#### GENE2442X

mean -0.2273 0.047

std. dev. 0.8599 0.8685

weight sum 22 70

precision 0.0633 0.0633

#### GENE2443X

mean -0.0979 0.0171

std. dev. 0.743 0.6806

weight sum 23 71



precision 0.0433 0.0433

#### GENE2438X

mean -0.2913 0.1877

std. dev. 0.6551 0.9503

weight sum 21 67

precision 0.0572 0.0572

#### GENE2437X

mean -0.0259 0.1359

std. dev. 0.4307 0.6175

weight sum 22 69

precision 0.0518 0.0518

#### GENE2084X

mean -0.3214 0.1408

std. dev. 0.4999 0.7947

weight sum 23 70

precision 0.0493 0.0493

#### GENE2235X

mean -0.0896 0.1453

std. dev. 0.4091 0.5897

weight sum 23 72

precision 0.0404 0.0404

#### GENE2111X

mean -0.2603 0.0786

std. dev. 0.5574 0.934

weight sum 22 62

precision 0.0658 0.0658

#### GENE2303X

mean 0.1344 0.0691

std. dev. 0.6215 1.0945

weight sum 22 71

precision 0.0629 0.0629

#### GENE2302X

mean 0.0649 -0.1191

std. dev. 0.4662 0.7336

weight sum 23 72

precision 0.0466 0.0466

#### GENE2301X

mean -0.1915 0.1574

std. dev. 0.6879 1.0272

weight sum 23 68

precision 0.0677 0.0677

#### GENE2300X

mean -0.3541 0.0841

std. dev. 0.6113 1.0618

weight sum 23 72

precision 0.0673 0.0673

#### GENE2299X

mean -0.3437 0.1115

std. dev. 0.7411 0.9972

weight sum 23 72

precision 0.0627 0.0627

#### GENE2298X

mean -0.2576 0.1254

std. dev. 0.6149 0.8883

weight sum 23 70

precision 0.0529 0.0529

#### GENE2297X

mean 0.1586 -0.1013

std. dev. 0.6976 1.2751

weight sum 23 72

precision 0.076 0.076

#### GENE2296X

mean 0.0544 0.092

std. dev. 0.6578 0.8626

weight sum 22 70

precision 0.057 0.057

#### GENE2295X

mean 0.1512 0.0835

std. dev. 0.5288 0.8525

weight sum 23 69

precision 0.0543 0.0543

#### GENE2395X

mean 0.0141 0.1934

std. dev. 0.6377 1.2463

weight sum 22 68

precision 0.062 0.062

#### GENE2294X

mean -0.0432 -0.2433

std. dev. 0.9007 1.4083

weight sum 23 72

precision 0.0765 0.0765

#### GENE2293X

mean 0.0486 0.0529

std. dev. 0.5183 0.9716

weight sum 23 70

precision 0.0588 0.0588

#### GENE2292X

mean 0.0299 0.1884

std. dev. 0.5127 0.7496

weight sum 21 68

precision 0.0483 0.0483

#### GENE2290X

mean 0.1504 0.003

std. dev. 0.5188 0.7931

weight sum 20 66

precision 0.0396 0.0396

#### GENE2291X

mean -0.0283 -0.0523

std. dev. 0.5193 0.7362

weight sum 23 72

precision 0.0342 0.0342

#### GENE2289X

mean -0 0.2117

std. dev. 0.7382 1.1588

weight sum 19 64

precision 0.0584 0.0584

#### GENE2288X

mean 0.0234 0.2038

std. dev. 0.8921 1.3929

weight sum 23 71

precision 0.0673 0.0673

#### GENE2287X

mean 0.0153 0.272

std. dev. 0.7247 1.1008

weight sum 23 72

precision 0.0586 0.0586

#### GENE2132X

mean -0.2755 0.0651

std. dev. 0.4658 0.6854

weight sum 21 64

precision 0.0578 0.0578

#### GENE2115X

mean -0.6561 -0.015

std. dev. 0.91 1.2046

weight sum 23 69

precision 0.0862 0.0862

#### GENE2114X

mean -0.4743 0.0657

std. dev. 0.6936 0.9593

weight sum 23 70

precision 0.0657 0.0657

#### GENE2318X

mean -0.0698 0.0198

std. dev. 0.809 0.9953

weight sum 22 67

precision 0.053 0.053

#### GENE2317X

mean 0.0827 -0.0512

std. dev. 0.741 1.064

weight sum 21 63

precision 0.0621 0.0621

#### GENE2316X

mean -0 0.0819

std. dev. 0.8294 1.1828

weight sum 23 71

precision 0.0588 0.0588

#### GENE2315X

mean 0.0564 -0.1761

std. dev. 0.6492 0.7262

weight sum 23 72

precision 0.048 0.048

#### GENE2312X

mean 0.0249 0.0014

std. dev. 0.3954 0.468

weight sum 23 70

precision 0.0337 0.0337

#### GENE2313X

mean -0.0709 -0.0383

std. dev. 0.5825 0.6131

weight sum 23 65



precision 0.0453 0.0453

#### GENE2314X

mean -0.121 0.0156

std. dev. 0.6122 0.7545

weight sum 23 72

precision 0.0449 0.0449

#### GENE2319X

mean 0.1102 -0.0824

std. dev. 0.4107 0.6074

weight sum 23 67

precision 0.0497 0.0497

#### GENE2320X

mean 0.1207 -0.0425

std. dev. 0.3962 0.6689

weight sum 21 62

precision 0.0497 0.0497

#### GENE2321X

mean 0.363 0.124

std. dev. 0.6811 1.1148

weight sum 23 71

precision 0.0759 0.0759

#### GENE2322X

mean 0.373 -0.0602

std. dev. 0.6213 0.8674

weight sum 21 65

precision 0.0593 0.0593

#### GENE2323X

mean 0.2829 -0.1029

std. dev. 0.5553 1.0399

weight sum 23 70

precision 0.0581 0.0581

#### GENE2324X

mean 0.3209 -0.0633

std. dev. 0.5516 1.0126

weight sum 23 72

precision 0.0543 0.0543

#### GENE2325X

mean 0.3289 -0.2862

std. dev. 0.7599 1.2592

weight sum 23 69

precision 0.0796 0.0796

#### GENE2326X

mean 0.344 -0.1905

std. dev. 0.725 1.2045

weight sum 23 71

precision 0.0851 0.0851

#### GENE2327X

mean 0.0417 0.0406

std. dev. 0.6621 0.8052

weight sum 21 68

precision 0.0674 0.0674

#### GENE2328X

mean 0.1046 0.1201

std. dev. 1.2025 1.4162

weight sum 23 67

precision 0.0752 0.0752

#### GENE2329X

mean 0.2408 0.0614

std. dev. 0.6776 0.7603

weight sum 23 71

precision 0.042 0.042

#### GENE2333X

mean -0 0.0108

std. dev. 0.6432 0.8201

weight sum 23 59

precision 0.058 0.058

#### GENE2330X

mean -0.0646 0.116

std. dev. 0.4025 0.6914

weight sum 23 71

precision 0.0425 0.0425

#### GENE2424X

mean -0.1087 0.1835

std. dev. 0.3524 0.6693

weight sum 23 70

precision 0.0338 0.0338

#### GENE2425X

mean 0.0231 0.1444

std. dev. 0.335 0.7528

weight sum 23 69

precision 0.0484 0.0484

#### GENE2426X

mean 0.0194 0.1781

std. dev. 0.4709 0.8475

weight sum 23 72

precision 0.0638 0.0638

#### GENE2431X

mean 0.0606 0.2071

std. dev. 0.5285 0.6983

weight sum 23 72

precision 0.0465 0.0465

#### GENE2430X

mean -0.3479 0.1731

std. dev. 0.9764 1.4081

weight sum 23 72

precision 0.0769 0.0769

#### GENE2429X

mean -0.3768 0.2281

std. dev. 1.097 1.6173

weight sum 23 72

precision 0.0825 0.0825

#### GENE2428X

mean -0.4907 0.1145

std. dev. 1.0694 1.639

weight sum 23 69

precision 0.094 0.094

#### GENE2427X

mean -0.3345 0.1533

std. dev. 0.7455 1.0782

weight sum 23 72

precision 0.0669 0.0669

#### GENE2244X

mean -0.1357 0.2413

std. dev. 0.6339 1.092

weight sum 21 70

precision 0.0518 0.0518

#### GENE2419X

mean -0.2254 0.2318

std. dev. 1.1072 1.1863

weight sum 23 70

precision 0.0673 0.0673

#### GENE2420X

mean 0.0021 0.1531

std. dev. 0.5737 0.6055

weight sum 23 72

precision 0.0486 0.0486

#### GENE2421X

mean -0.3528 0.079

std. dev. 0.4808 0.6906

weight sum 18 63

precision 0.0474 0.0474

#### GENE2422X

mean -0.4168 0.0578

std. dev. 0.8925 0.9261

weight sum 22 66

precision 0.053 0.053

#### GENE2423X

mean -0.1861 0.1539

std. dev. 0.6027 0.791

weight sum 22 69

precision 0.0506 0.0506

#### GENE2418X

mean -0.2857 0.0179

std. dev. 0.4619 0.6359

weight sum 20 65

precision 0.0555 0.0555

#### GENE2417X

mean -0.2281 0.1559

std. dev. 0.3944 0.6648

weight sum 22 69

precision 0.0401 0.0401

#### GENE2360X

mean -0.0113 0.0923

std. dev. 0.3831 0.6825

weight sum 23 72

precision 0.0434 0.0434

#### GENE2359X

mean -0.4388 -0.2577

std. dev. 1.0238 1.698

weight sum 23 72



precision 0.0742 0.0742

#### GENE2358X

mean -0.4651 -0.1979

std. dev. 0.9182 1.5692

weight sum 17 64

precision 0.0768 0.0768

#### GENE2357X

mean -0.4997 0.0084

std. dev. 1.0104 1.6463

weight sum 22 67

precision 0.0802 0.0802

#### GENE2356X

mean -0.5641 0.0114

std. dev. 0.9246 1.3358

weight sum 23 72

precision 0.0633 0.0633

#### GENE2365X

mean -0.2072 0.2446

std. dev. 0.4961 0.9383

weight sum 22 70

precision 0.0426 0.0426

#### GENE2366X

mean -0.5705 0.0679

std. dev. 0.963 1.2998

weight sum 23 70

precision 0.0669 0.0669

#### GENE2367X

mean -0.4644 0.1668

std. dev. 1.0686 1.3385

weight sum 23 71

precision 0.0685 0.0685

#### GENE2368X

mean -0.5124 0.0563

std. dev. 0.8088 1.2831

weight sum 23 72

precision 0.0737 0.0737

#### GENE2369X

mean -0.3579 0.1917

std. dev. 0.9655 1.2646

weight sum 23 69

precision 0.0704 0.0704

#### GENE2370X

mean -0.3633 0.0209

std. dev. 1.0118 1.3075

weight sum 23 71

precision 0.0708 0.0708

#### GENE2371X

mean -0.4596 -0.0174

std. dev. 1.0544 1.2626

weight sum 23 72

precision 0.0695 0.0695

#### GENE2372X

mean -0.2589 0.1367

std. dev. 0.6181 1.1464

weight sum 22 72

precision 0.0553 0.0553

#### GENE2373X

mean -0.2465 0.067

std. dev. 0.8183 1.2147

weight sum 23 72

precision 0.0652 0.0652

#### GENE2374X

mean -0.3162 0.2415

std. dev. 0.6118 1.2008

weight sum 23 66

precision 0.0632 0.0632

#### GENE2386X

mean -0.2232 0.4921

std. dev. 0.8886 1.1918

weight sum 22 69

precision 0.0599 0.0599

#### GENE2387X

mean -0.3392 0.1921

std. dev. 0.9806 1.4691

weight sum 23 72

precision 0.0709 0.0709

#### GENE2383X

mean 0.0241 0.0877

std. dev. 0.7313 0.9768

weight sum 23 68

precision 0.0462 0.0462

#### GENE2384X

mean 0.1528 0.1668

std. dev. 0.6093 0.8646

weight sum 22 69

precision 0.0509 0.0509

#### GENE2385X

mean 0.0718 0.1476

std. dev. 0.7682 0.964

weight sum 22 70

precision 0.0478 0.0478

#### GENE2412X

mean 0.1922 -0.0949

std. dev. 0.653 0.8992

weight sum 23 72

precision 0.0447 0.0447

#### GENE2411X

mean -0.0655 -0.0792

std. dev. 1.0958 1.2807

weight sum 23 72

precision 0.0655 0.0655

#### GENE2410X

mean -0.0899 -0.02

std. dev. 1.1576 1.4017

weight sum 23 72

precision 0.0627 0.0627

#### GENE2409X

mean -0.4413 -0.38

std. dev. 1.5245 1.8744

weight sum 21 70

precision 0.0753 0.0753

#### GENE2408X

mean -0.4845 0.0216

std. dev. 1.3632 1.8163

weight sum 20 67

precision 0.085 0.085

#### GENE2407X

mean -0.2865 0.1078

std. dev. 1.3627 1.8135

weight sum 22 67

precision 0.0708 0.0708

#### GENE2406X

mean -0.2985 0.123

std. dev. 0.7405 1.1348

weight sum 20 63

precision 0.0635 0.0635

#### GENE2405X

mean -0.3407 0.087

std. dev. 0.9576 1.1515

weight sum 22 70

precision 0.0641 0.0641

#### GENE2397X

mean -0.4301 0.3074

std. dev. 0.5596 1.0269

weight sum 21 70

precision 0.0575 0.0575

#### GENE2398X

mean -0.5013 0.2663

std. dev. 0.7015 1.0989

weight sum 19 66

precision 0.0639 0.0639

#### GENE2404X

mean -0.3286 0.2461

std. dev. 0.4674 0.8027

weight sum 23 71

precision 0.0453 0.0453

#### GENE2403X

mean -0.7054 0.5056

std. dev. 0.6577 1.3779

weight sum 21 66

precision 0.0733 0.0733

#### GENE2402X

mean -0.8937 0.5631

std. dev. 0.8884 1.5569

weight sum 22 71

precision 0.0728 0.0728

#### GENE2401X

mean -1.2001 0.6074

std. dev. 1.2499 1.8054

weight sum 18 63



precision 0.0931 0.0931

#### GENE2400X

mean -0.9762 0.411

std. dev. 1.0639 1.6008

weight sum 19 69

precision 0.0824 0.0824

#### GENE2399X

mean -0.8945 0.2308

std. dev. 0.9783 1.6207

weight sum 17 67

precision 0.0859 0.0859

#### GENE2388X

mean -0.5767 0.2721

std. dev. 0.8493 1.273

weight sum 21 65

precision 0.0743 0.0743

#### GENE2389X

mean -0.452 0.4416

std. dev. 0.9416 1.5243

weight sum 20 64

precision 0.0814 0.0814

#### GENE2392X

mean -0.2613 0.2954

std. dev. 0.6243 1.2405

weight sum 22 67

precision 0.0653 0.0653

#### GENE2390X

mean -0.0982 0.3303

std. dev. 0.4847 0.8589

weight sum 22 63

precision 0.0527 0.0527

#### GENE2391X

mean -0.0981 0.4735

std. dev. 0.6062 1.0788

weight sum 21 72

precision 0.0589 0.0589

#### GENE2393X

mean -0.1236 0.1312

std. dev. 0.7439 1.3458

weight sum 21 69

precision 0.0604 0.0604

#### GENE2394X

mean -0.1482 0.1958

std. dev. 0.7014 1.0995

weight sum 20 65

precision 0.0581 0.0581

#### GENE2413X

mean -0.1465 0.0973

std. dev. 0.6964 0.9075

weight sum 20 62

precision 0.0564 0.0564

#### GENE2414X

mean -0.231 0.1067

std. dev. 0.4069 0.8311

weight sum 19 60

precision 0.0457 0.0457

#### GENE2382X

mean -0.1755 0.1465

std. dev. 0.4681 0.6621

weight sum 19 68

precision 0.0388 0.0388

#### GENE2381X

mean -0.7694 0.4104

std. dev. 0.9027 1.5303

weight sum 17 62

precision 0.0896 0.0896

#### GENE2380X

mean -0.4474 0.4014

std. dev. 1.3051 1.3809

weight sum 23 71

precision 0.0817 0.0817

#### GENE2379X

mean -0.3856 0.4018

std. dev. 1.1252 1.2418

weight sum 22 72

precision 0.061 0.061

#### GENE2378X

mean -0.5254 0.387

std. dev. 1.0533 1.1783

weight sum 23 71

precision 0.0601 0.0601

#### GENE2377X

mean -0.719 0.3458

std. dev. 0.3842 0.9678

weight sum 18 64

precision 0.056 0.056

#### GENE2376X

mean -0.2105 0.3267

std. dev. 0.7662 0.8541

weight sum 19 60

precision 0.0571 0.0571

#### GENE2375X

mean -0.2473 0.2292

std. dev. 0.4476 0.5355

weight sum 23 70

precision 0.0379 0.0379

#### GENE2355X

mean -0.2622 0.1935

std. dev. 0.7193 0.7713

weight sum 23 69

precision 0.0515 0.0515

#### GENE2354X

mean -0.2699 0.2461

std. dev. 0.6161 0.7759

weight sum 22 69

precision 0.046 0.046

#### GENE2353X

mean -0.4449 0.0751

std. dev. 0.6271 0.7214

weight sum 23 71

precision 0.0437 0.0437

#### GENE2352X

mean -0.1733 0.1758

std. dev. 0.546 0.7901

weight sum 21 67

precision 0.0505 0.0505

#### GENE2351X

mean -0.2421 -0.0025

std. dev. 0.5704 0.7564

weight sum 23 72

precision 0.0445 0.0445

#### GENE2350X

mean -0.2705 0.1148

std. dev. 0.6155 0.6174

weight sum 23 71

precision 0.0551 0.0551

#### GENE2349X

mean -0.1523 0.2231

std. dev. 0.464 0.5944

weight sum 22 70

precision 0.0472 0.0472

#### GENE2348X

mean -0.1219 0.1607

std. dev. 0.5262 0.663

weight sum 23 72

precision 0.0445 0.0445

#### GENE2347X

mean -0.1608 0.1645

std. dev. 0.6466 0.8397

weight sum 23 72

precision 0.0468 0.0468

#### GENE2345X

mean -0.0493 0.3265

std. dev. 0.438 0.7063

weight sum 23 71

precision 0.042 0.042

#### GENE2346X

mean -0.0684 0.1931

std. dev. 0.4315 0.7014

weight sum 23 72

precision 0.0357 0.0357

#### GENE2344X

mean -0.0456 0.1076

std. dev. 0.3974 0.6629

weight sum 17 62

precision 0.0388 0.0388

#### GENE2343X

mean 0.0856 0.1181

std. dev. 0.392 0.6835

weight sum 23 72



precision 0.0447 0.0447

#### GENE2342X

mean -0.222 0.1207

std. dev. 0.4435 0.7479

weight sum 21 71

precision 0.0501 0.0501

#### GENE2341X

mean -0.167 0.1465

std. dev. 0.4513 0.7165

weight sum 23 72

precision 0.0392 0.0392

#### GENE2340X

mean 0.0106 0.1371

std. dev. 0.5108 0.6882

weight sum 23 70

precision 0.0407 0.0407

#### GENE2339X

mean -0.2043 0.1538

std. dev. 0.3827 0.5643

weight sum 20 68

precision 0.0352 0.0352

#### GENE2338X

mean -0.0851 0.1176

std. dev. 0.3306 0.513

weight sum 23 70

precision 0.0311 0.0311

#### GENE2337X

mean -0.0066 0.0035

std. dev. 0.3803 0.5306

weight sum 23 70

precision 0.0304 0.0304

#### GENE2336X

mean -0.1004 0.0891

std. dev. 0.4839 0.6654

weight sum 20 69

precision 0.0427 0.0427

#### GENE2335X

mean -0.1431 0.0482

std. dev. 0.3953 0.6011

weight sum 21 70

precision 0.031 0.031

#### GENE2416X

mean -0.1678 0.0614

std. dev. 0.6954 0.9203

weight sum 22 69

precision 0.0499 0.0499

#### GENE2415X

mean -0.2727 0.1447

std. dev. 0.4396 0.6531

weight sum 17 62

precision 0.0498 0.0498

#### GENE2459X

mean -0.1073 0.0301

std. dev. 0.3592 0.5507

weight sum 23 72

precision 0.0433 0.0433

#### GENE2334X

mean -0.0964 0.1408

std. dev. 0.4259 0.6452

weight sum 23 72

precision 0.0396 0.0396

#### GENE2332X

mean -0.1471 -0.0309

std. dev. 0.6518 0.8868

weight sum 22 71

precision 0.0578 0.0578

#### GENE2331X

mean -0.1619 0.0131

std. dev. 0.5864 0.8533

weight sum 22 70

precision 0.0574 0.0574

#### GENE2133X

mean -0.4313 0.1871

std. dev. 0.5855 0.7882

weight sum 19 64

precision 0.0581 0.0581

#### GENE2134X

mean -0.4564 0.241

std. dev. 0.508 0.7511

weight sum 22 66

precision 0.051 0.051

#### GENE2113X

mean -0.377 0.1421

std. dev. 0.3213 0.5366

weight sum 23 72

precision 0.034 0.034

#### GENE2106X

mean -0.46 0.2091

std. dev. 0.4114 0.5598

weight sum 23 71

precision 0.0353 0.0353

#### GENE2308X

mean -0.1594 0.099

std. dev. 0.4717 0.6283

weight sum 23 71

precision 0.0509 0.0509

#### GENE2309X

mean -0.2468 0.2525

std. dev. 0.7768 0.8897

weight sum 23 67

precision 0.0573 0.0573

#### GENE2310X

mean -0.1876 0.092

std. dev. 0.5549 0.8417

weight sum 23 72

precision 0.0427 0.0427

#### GENE2311X

mean -0.1425 0.0471

std. dev. 0.4741 0.691

weight sum 23 72

precision 0.0377 0.0377

#### GENE2468X

mean -0.0174 0.01

std. dev. 0.3753 0.4056

weight sum 22 69

precision 0.0383 0.0383

#### GENE2469X

mean -0.1356 -0.0031

std. dev. 0.2843 0.4508

weight sum 20 66

precision 0.0411 0.0411

#### GENE2470X

mean -0.2888 0.08

std. dev. 0.3879 0.4885

weight sum 20 68

precision 0.0477 0.0477

#### GENE2471X

mean -0.3136 0.0928

std. dev. 0.3929 0.5576

weight sum 21 70

precision 0.0454 0.0454

#### GENE2472X

mean -0.2991 0.0816

std. dev. 0.3926 0.662

weight sum 22 69

precision 0.0473 0.0473

#### GENE2473X

mean -0.4156 0.0833

std. dev. 0.4265 0.6627

weight sum 21 69

precision 0.0513 0.0513

#### GENE2475X

mean -0.3424 0.2081

std. dev. 0.5731 0.7411

weight sum 22 70

precision 0.0554 0.0554

#### GENE2474X

mean -0.3695 0.1246

std. dev. 0.6508 0.7093

weight sum 23 71

precision 0.0494 0.0494

#### GENE2476X

mean -0.3964 0.0856

std. dev. 0.6982 0.6342

weight sum 20 68

precision 0.0448 0.0448

#### GENE2477X

mean -0.4012 0.1389

std. dev. 0.4838 0.573

weight sum 22 72



precision 0.049 0.049

#### GENE2146X

mean -0.3306 0.1256

std. dev. 0.3922 0.5014

weight sum 23 72

precision 0.0388 0.0388

#### GENE2145X

mean -0.0932 0.0299

std. dev. 0.3364 0.4684

weight sum 23 65

precision 0.0397 0.0397

#### GENE2120X

mean -0.1717 -0.0059

std. dev. 0.4761 0.4974

weight sum 22 69

precision 0.0406 0.0406

#### GENE2121X

mean -0.133 -0.0227

std. dev. 0.5296 0.5063

weight sum 23 70

precision 0.0397 0.0397

#### GENE2122X

mean -0.17 0.0896

std. dev. 0.5345 0.5831

weight sum 23 70

precision 0.043 0.043

#### GENE2478X

mean -0.5593 0.1399

std. dev. 0.5323 0.6179

weight sum 23 72

precision 0.0444 0.0444

#### GENE2140X

mean -0.0991 0.0118

std. dev. 0.4714 0.515

weight sum 22 68

precision 0.0363 0.0363

#### GENE2139X

mean -0.1529 0.1769

std. dev. 0.6964 0.7291

weight sum 23 67

precision 0.0434 0.0434

#### GENE2138X

mean -0.1315 0.1147

std. dev. 0.5573 0.6904

weight sum 23 68

precision 0.0438 0.0438

#### GENE2137X

mean -0.2139 0.1475

std. dev. 0.4512 0.6753

weight sum 18 60

precision 0.05 0.05

#### GENE2525X

mean -0.1263 0.129

std. dev. 0.3039 0.4875

weight sum 22 72

precision 0.0366 0.0366

#### GENE2282X

mean -0.0296 0.1083

std. dev. 0.2725 0.5101

weight sum 19 62

precision 0.0469 0.0469

#### GENE2281X

mean -0.0751 0.1239

std. dev. 0.2353 0.5484

weight sum 20 65

precision 0.0455 0.0455

#### GENE2280X

mean -0.1632 0.1707

std. dev. 0.3097 0.5611

weight sum 23 69

precision 0.0475 0.0475

#### GENE2279X

mean -0.2098 0.202

std. dev. 0.3371 0.502

weight sum 20 70

precision 0.0338 0.0338

#### GENE2278X

mean -0.6205 0.2762

std. dev. 0.6472 1.0249

weight sum 22 72

precision 0.0656 0.0656

#### GENE2277X

mean -0.0364 0.1488

std. dev. 0.3386 0.6539

weight sum 23 70

precision 0.0523 0.0523

#### GENE2276X

mean -0.0147 0.096

std. dev. 0.5601 0.7466

weight sum 22 65

precision 0.0538 0.0538

#### GENE2275X

mean -0.3346 0.1434

std. dev. 0.63 0.8515

weight sum 18 63

precision 0.0753 0.0753

#### GENE2267X

mean -0.3702 0.3002

std. dev. 0.4862 0.8737

weight sum 23 70

precision 0.0604 0.0604

#### GENE2268X

mean -0.2459 0.2281

std. dev. 0.3737 0.7565

weight sum 23 72

precision 0.0496 0.0496

#### GENE2243X

mean -0.114 0.1174

std. dev. 0.4451 0.4887

weight sum 22 68

precision 0.038 0.038

#### GENE2242X

mean -0.3269 0.2038

std. dev. 0.7535 0.9794

weight sum 20 61

precision 0.0719 0.0719

#### GENE2241X

mean -0.0703 0.1757

std. dev. 0.3162 0.5241

weight sum 21 70

precision 0.0378 0.0378

#### GENE2274X

mean -0.0554 0.2116

std. dev. 0.5901 1.1158

weight sum 22 70

precision 0.0581 0.0581

#### GENE2273X

mean 0.0307 0.3977

std. dev. 0.9194 1.2578

weight sum 23 72

precision 0.0642 0.0642

#### GENE2272X

mean 0.1015 0.3443

std. dev. 0.8911 1.2255

weight sum 22 69

precision 0.0677 0.0677

#### GENE2271X

mean -0.1217 0.6933

std. dev. 1.2008 1.7789

weight sum 23 72

precision 0.0756 0.0756

#### GENE2270X

mean -0.1465 0.8358

std. dev. 1.1338 1.7603

weight sum 23 71

precision 0.0864 0.0864

#### GENE2269X

mean 0.018 0.1576

std. dev. 0.5577 0.7061

weight sum 23 72

precision 0.0376 0.0376

#### GENE2307X

mean -1.0033 1.0346

std. dev. 1.1386 2.1049

weight sum 22 70

precision 0.0985 0.0985

#### GENE2396X

mean -0.319 0.2389

std. dev. 0.6256 0.8406

weight sum 21 68



precision 0.0558 0.0558

#### GENE2254X

mean -0.2251 0.1088

std. dev. 0.5458 0.5596

weight sum 23 71

precision 0.037 0.037

#### GENE2153X

mean -0.3474 0.0013

std. dev. 0.6788 0.6443

weight sum 21 67

precision 0.0429 0.0429

#### GENE2152X

mean -0.5044 -0.0533

std. dev. 1.1819 0.9285

weight sum 20 71

precision 0.0742 0.0742

#### GENE2119X

mean -0.293 0.0175

std. dev. 0.5236 0.6782

weight sum 23 70

precision 0.0471 0.0471

#### GENE2149X

mean -0.3456 0.1394

std. dev. 0.5182 0.5703

weight sum 23 70

precision 0.0412 0.0412

#### GENE2148X

mean -0.6514 0.1059

std. dev. 0.6203 0.7592

weight sum 23 71

precision 0.0537 0.0537

#### GENE2118X

mean -0.5848 0.3228

std. dev. 0.713 0.9657

weight sum 20 62

precision 0.0676 0.0676

#### GENE2117X

mean -0.7823 0.3585

std. dev. 1.0285 1.079

weight sum 21 71

precision 0.0903 0.0903

#### GENE2151X

mean -0.2619 0.2494

std. dev. 0.9081 0.9619

weight sum 22 70

precision 0.0582 0.0582

#### GENE2125X

mean -0.175 0.0836

std. dev. 0.8637 0.9551

weight sum 22 67

precision 0.07 0.07

#### GENE2124X

mean -0.2506 0.0379

std. dev. 0.7244 0.8171

weight sum 22 69

precision 0.0568 0.0568

#### GENE2142X

mean -0.2106 0.0815

std. dev. 0.6285 0.6614

weight sum 23 70

precision 0.0429 0.0429

#### GENE2141X

mean -0.1273 0.0704

std. dev. 0.7305 0.6075

weight sum 22 66

precision 0.0596 0.0596

#### GENE2158X

mean -0.3761 0.0487

std. dev. 0.8305 0.5909

weight sum 20 66

precision 0.073 0.073

#### GENE2227X

mean -0.2393 0.1429

std. dev. 0.5217 0.8727

weight sum 22 65

precision 0.0592 0.0592

#### GENE2225X

mean -0.4514 0.1089

std. dev. 0.6443 0.7231

weight sum 21 71

precision 0.0624 0.0624

#### GENE2226X

mean -0.4232 0.2468

std. dev. 0.4465 0.5819

weight sum 23 70

precision 0.0429 0.0429

#### GENE2220X

mean -0.5156 0.3057

std. dev. 0.5243 0.729

weight sum 21 71

precision 0.0483 0.0483

#### GENE2159X

mean -0.1612 0.0614

std. dev. 0.6476 0.7366

weight sum 22 71

precision 0.0427 0.0427

#### GENE2160X

mean -0.1952 0.0489

std. dev. 0.6316 0.655

weight sum 20 70

precision 0.0372 0.0372

#### GENE2161X

mean -0.3346 0.0916

std. dev. 0.6655 0.8567

weight sum 21 70

precision 0.0472 0.0472

#### GENE2162X

mean -0.1987 0.106

std. dev. 0.6316 0.6167

weight sum 21 71

precision 0.0373 0.0373

#### GENE2167X

mean -0.3534 0.0738

std. dev. 0.4254 0.5543

weight sum 21 69

precision 0.0432 0.0432

#### GENE2157X

mean -0.1036 0.0095

std. dev. 0.429 0.4997

weight sum 20 62

precision 0.0391 0.0391

#### GENE2902X

mean -0.4024 0.0917

std. dev. 0.4422 0.5343

weight sum 21 69

precision 0.0372 0.0372

#### GENE2165X

mean -0.2166 0.0954

std. dev. 0.3639 0.4739

weight sum 21 69

precision 0.0318 0.0318

#### GENE2163X

mean -0.3007 0.1352

std. dev. 0.421 0.7147

weight sum 22 70

precision 0.0607 0.0607

#### GENE2164X

mean -0.324 0.1349

std. dev. 0.5816 0.5819

weight sum 21 71

precision 0.0403 0.0403

#### GENE2169X

mean -0.3562 0.1008

std. dev. 0.6155 0.6543

weight sum 19 64

precision 0.0525 0.0525

#### GENE2168X

mean -0.4558 0.0482

std. dev. 0.7284 0.7233

weight sum 19 66

precision 0.0589 0.0589

#### GENE2219X

mean -0.475 0.2832

std. dev. 0.7434 0.9151

weight sum 21 67

precision 0.0652 0.0652

#### GENE2218X

mean -0.4689 0.1368

std. dev. 0.863 1.0631

weight sum 20 69



precision 0.0642 0.0642

#### GENE2217X

mean -0.3758 0.1269

std. dev. 0.5567 0.8223

weight sum 19 61

precision 0.06 0.06

#### GENE2216X

mean -0.6228 0.1504

std. dev. 0.73 0.8473

weight sum 19 67

precision 0.0566 0.0566

#### GENE2215X

mean -0.3095 0.1596

std. dev. 0.3972 0.5453

weight sum 23 72

precision 0.0339 0.0339

#### GENE2231X

mean -0.053 0.3146

std. dev. 0.6931 0.7462

weight sum 21 69

precision 0.0557 0.0557

#### GENE2207X

mean -0.1562 0.165

std. dev. 0.4944 0.6569

weight sum 23 71

precision 0.0349 0.0349

#### GENE2236X

mean -0.1983 0.1338

std. dev. 0.4838 0.593

weight sum 22 70

precision 0.0321 0.0321

#### GENE2193X

mean -0.2602 0.3892

std. dev. 0.6815 0.9302

weight sum 23 72

precision 0.0704 0.0704

#### GENE2192X

mean -0.66 0.3023

std. dev. 0.9421 1.2686

weight sum 20 71

precision 0.081 0.081

#### GENE2191X

mean -0.7048 0.3558

std. dev. 0.9991 1.2096

weight sum 20 70

precision 0.073 0.073

#### GENE2180X

mean -0.4078 0.1566

std. dev. 0.9952 1.086

weight sum 21 70

precision 0.0649 0.0649

#### GENE2189X

mean -0.308 0.1025

std. dev. 0.4713 0.7061

weight sum 22 70

precision 0.0396 0.0396

#### GENE2188X

mean -0.2481 0.2873

std. dev. 0.5983 0.8791

weight sum 21 68

precision 0.062 0.062

#### GENE2187X

mean -0.6386 0.2886

std. dev. 0.7208 1.05

weight sum 20 67

precision 0.0714 0.0714

#### GENE2186X

mean -0.6452 0.3464

std. dev. 0.5414 0.8778

weight sum 23 70

precision 0.056 0.056

#### GENE2190X

mean -0.4157 0.3277

std. dev. 0.6316 0.8729

weight sum 23 71

precision 0.0601 0.0601

#### GENE2185X

mean -0.2672 0.3008

std. dev. 0.6292 0.8412

weight sum 23 65

precision 0.0585 0.0585

#### GENE2184X

mean -0.4093 0.2473

std. dev. 0.5747 0.7366

weight sum 23 71

precision 0.0424 0.0424

#### GENE2183X

mean -0.4038 0.3565

std. dev. 0.8442 1.0994

weight sum 21 71

precision 0.0647 0.0647

#### GENE2182X

mean -0.5627 0.1605

std. dev. 0.8551 1.0067

weight sum 19 69

precision 0.0644 0.0644

#### GENE2181X

mean -0.669 0.2727

std. dev. 0.7497 0.7792

weight sum 20 72

precision 0.0619 0.0619

#### GENE2196X

mean -0.2705 0.1979

std. dev. 0.4555 0.6031

weight sum 23 71

precision 0.0335 0.0335

#### GENE2194X

mean -0.2535 0.2739

std. dev. 0.5729 0.7478

weight sum 22 71

precision 0.0477 0.0477

#### GENE2195X

mean -0.2216 0.1061

std. dev. 0.3621 0.5323

weight sum 23 70

precision 0.0359 0.0359

#### GENE2197X

mean -0.2325 0.2375

std. dev. 0.4322 0.7677

weight sum 22 61

precision 0.071 0.071

#### GENE2198X

mean -0.3644 0.3011

std. dev. 0.5355 0.7912

weight sum 22 71

precision 0.0668 0.0668

#### GENE2199X

mean -0.123 0.2169

std. dev. 0.3783 0.6893

weight sum 21 71

precision 0.0487 0.0487

#### GENE2200X

mean -0.3048 0.2933

std. dev. 0.4656 0.7743

weight sum 22 69

precision 0.0604 0.0604

#### GENE2201X

mean -0.3722 0.3568

std. dev. 0.5313 0.8119

weight sum 22 71

precision 0.0512 0.0512

#### GENE2179X

mean -0.3559 0.1747

std. dev. 0.6375 0.6937

weight sum 20 67

precision 0.0665 0.0665

#### GENE2202X

mean -0.3461 0.4907

std. dev. 0.7144 1.2879

weight sum 20 67

precision 0.0824 0.0824

#### GENE2203X

mean -0.2508 0.3259

std. dev. 0.4381 0.7727

weight sum 22 64

precision 0.0468 0.0468

#### GENE2205X

mean -0.2244 0.1429

std. dev. 0.3425 0.5384

weight sum 20 70



precision 0.0332 0.0332

#### GENE2204X

mean -0.2718 0.17

std. dev. 0.3634 0.6206

weight sum 23 70

precision 0.0374 0.0374

#### GENE2178X

mean -0.4183 0.0428

std. dev. 0.5135 0.877

weight sum 18 61

precision 0.0607 0.0607

#### GENE2206X

mean -0.2076 0.1818

std. dev. 0.2967 0.4882

weight sum 23 71

precision 0.0308 0.0308

#### GENE2166X

mean -0.2768 0.1468

std. dev. 0.4838 0.5411

weight sum 22 71

precision 0.039 0.039

#### GENE2173X

mean -0.1254 0.0804

std. dev. 0.5208 0.6032

weight sum 20 65

precision 0.0425 0.0425

#### GENE2172X

mean -0.2515 0.1219

std. dev. 0.6599 0.6467

weight sum 20 70

precision 0.0508 0.0508

#### GENE2171X

mean -0.0264 0.0154

std. dev. 0.3709 0.5445

weight sum 23 69

precision 0.038 0.038

#### GENE2174X

mean -0.3304 0.1158

std. dev. 0.4243 0.5621

weight sum 21 66

precision 0.039 0.039

#### GENE2176X

mean -0.1815 0.3082

std. dev. 0.4838 0.6592

weight sum 21 68

precision 0.0465 0.0465

#### GENE2175X

mean -0.291 0.1407

std. dev. 0.3885 0.6046

weight sum 22 71

precision 0.0403 0.0403

#### GENE2177X

mean -0.1279 0.1111

std. dev. 0.2661 0.4654

weight sum 23 71

precision 0.0334 0.0334

#### GENE2208X

mean -0.6096 0.2373

std. dev. 0.5508 0.7461

weight sum 18 64

precision 0.0554 0.0554

#### GENE2209X

mean -0.5779 0.1114

std. dev. 0.6738 0.6969

weight sum 21 66

precision 0.0736 0.0736

#### GENE2210X

mean -0.4382 0.0949

std. dev. 0.6385 0.5747

weight sum 23 72

precision 0.0427 0.0427

#### GENE2211X

mean -0.4556 0.0199

std. dev. 0.5853 0.705

weight sum 22 70

precision 0.0499 0.0499

#### GENE2212X

mean -0.2519 0.0465

std. dev. 0.4905 0.6246

weight sum 22 68

precision 0.039 0.039

#### GENE2213X

mean -0.2382 0.1848

std. dev. 0.5255 0.6444

weight sum 20 66

precision 0.0476 0.0476

#### GENE2214X

mean -0.4398 0.0685

std. dev. 0.5417 0.7134

weight sum 22 72

precision 0.0456 0.0456

#### GENE2170X

mean -0.2795 0.097

std. dev. 0.6783 0.5226

weight sum 22 67

precision 0.058 0.058

#### GENE2222X

mean -0.2593 0.0496

std. dev. 0.4327 0.6202

weight sum 19 59

precision 0.0513 0.0513

#### GENE2223X

mean -0.4214 0.0953

std. dev. 0.6443 0.7782

weight sum 22 70

precision 0.0591 0.0591

#### GENE2221X

mean -0.1961 0.175

std. dev. 0.3947 0.5342

weight sum 22 72

precision 0.0282 0.0282

#### GENE2230X

mean -0.2309 0.1195

std. dev. 0.4482 0.5078

weight sum 23 71

precision 0.0289 0.0289

#### GENE2228X

mean -0.1811 0.1232

std. dev. 0.4456 0.5705

weight sum 18 64

precision 0.0472 0.0472

#### GENE2229X

mean -0.2412 0.1684

std. dev. 0.4887 0.696

weight sum 23 72

precision 0.0544 0.0544

#### GENE2245X

mean -0.2305 0.1803

std. dev. 0.3913 0.5141

weight sum 21 71

precision 0.04 0.04

#### GENE2246X

mean -0.2051 0.2213

std. dev. 0.4497 0.5919

weight sum 23 71

precision 0.0363 0.0363

#### GENE2247X

mean -0.2164 0.2072

std. dev. 0.5147 0.5888

weight sum 19 67

precision 0.0407 0.0407

#### GENE2248X

mean -0.173 0.1435

std. dev. 0.4285 0.5743

weight sum 19 67

precision 0.0411 0.0411

#### GENE2249X

mean -0.0923 0.1267

std. dev. 0.4474 0.6032

weight sum 22 69

precision 0.039 0.039

#### GENE2283X

mean -0.0088 0.0934

std. dev. 0.2946 0.5167

weight sum 20 68

precision 0.0353 0.0353

#### GENE2232X

mean -0.1669 0.0899

std. dev. 0.3877 0.5586

weight sum 23 68



precision 0.0373 0.0373

#### GENE2233X

mean -0.1473 0.0373

std. dev. 0.4939 0.615

weight sum 23 70

precision 0.0458 0.0458

#### GENE2154X

mean -0.5223 0.1286

std. dev. 0.6564 0.7317

weight sum 23 71

precision 0.0437 0.0437

#### GENE2239X

mean -0.2637 0.2523

std. dev. 0.2628 0.6273

weight sum 22 71

precision 0.0367 0.0367

#### GENE2240X

mean -0.171 0.1867

std. dev. 0.2751 0.5753

weight sum 23 72

precision 0.0401 0.0401

#### GENE2250X

mean -0.3142 0.1296

std. dev. 0.4406 0.6753

weight sum 22 68

precision 0.0422 0.0422

#### GENE2707X

mean -0.3388 0.1422

std. dev. 0.5123 0.4956

weight sum 19 61

precision 0.0678 0.0678

#### GENE2694X

mean -0.2049 0.1595

std. dev. 0.5906 0.6621

weight sum 19 65

precision 0.0506 0.0506

#### GENE2982X

mean -0.203 0.114

std. dev. 0.5314 0.4618

weight sum 21 65

precision 0.0414 0.0414

#### GENE2734X

mean -0.3521 0.0395

std. dev. 0.5126 0.7352

weight sum 20 66

precision 0.0704 0.0704

#### GENE2733X

mean -0.2337 0.0407

std. dev. 0.507 0.4985

weight sum 21 66

precision 0.0584 0.0584

#### GENE2732X

mean -0.4699 0.0394

std. dev. 0.7886 0.6237

weight sum 21 69

precision 0.0777 0.0777

#### GENE2731X

mean -0.4312 0.1035

std. dev. 0.64 0.59

weight sum 19 59

precision 0.0803 0.0803

#### GENE2730X

mean -0.5113 0.1086

std. dev. 0.7316 0.605

weight sum 18 62

precision 0.0618 0.0618

#### GENE2729X

mean -0.2813 0.085

std. dev. 0.497 0.4657

weight sum 20 64

precision 0.0469 0.0469

#### GENE2708X

mean -0.4445 0.0252

std. dev. 0.8367 0.6667

weight sum 21 70

precision 0.0735 0.0735

#### GENE2266X

mean -0.3292 0.0662

std. dev. 0.5404 0.4184

weight sum 22 71

precision 0.0424 0.0424

#### GENE1965X

mean -0.4777 0.0936

std. dev. 0.7276 0.7886

weight sum 22 70

precision 0.0649 0.0649

#### GENE2257X

mean -0.3139 0.1174

std. dev. 0.6085 0.6226

weight sum 22 70

precision 0.0548 0.0548

#### GENE2258X

mean -0.2802 0.1473

std. dev. 0.6609 0.6419

weight sum 23 71

precision 0.0565 0.0565

#### GENE2234X

mean -0.3088 0.1468

std. dev. 0.4883 0.5746

weight sum 22 70

precision 0.0335 0.0335

#### GENE2238X

mean -0.509 0.1737

std. dev. 0.4721 0.699

weight sum 23 72

precision 0.047 0.047

#### GENE2237X

mean -0.2 0.0905

std. dev. 0.3742 0.489

weight sum 21 62

precision 0.0336 0.0336

#### GENE2255X

mean -0.2311 0.0373

std. dev. 0.6302 0.5071

weight sum 21 65

precision 0.0485 0.0485

#### GENE2150X

mean -0.4117 0.1172

std. dev. 0.5358 0.6468

weight sum 19 66

precision 0.0439 0.0439

#### GENE2130X

mean -0.2391 0.1069

std. dev. 0.2711 0.4984

weight sum 23 70

precision 0.0367 0.0367

#### GENE2131X

mean -0.3202 0.2133

std. dev. 0.6184 1.1334

weight sum 22 69

precision 0.0697 0.0697

#### GENE2155X

mean -0.3204 0.1606

std. dev. 0.4891 0.8269

weight sum 19 61

precision 0.058 0.058

#### GENE2147X

mean -0.3853 0.0776

std. dev. 0.6673 0.6519

weight sum 21 65

precision 0.0554 0.0554

#### GENE2224X

mean -0.3967 0.1152

std. dev. 0.4546 0.8017

weight sum 22 69

precision 0.0519 0.0519

#### GENE2432X

mean -0.122 0.121

std. dev. 0.5155 0.6995

weight sum 23 72

precision 0.0326 0.0326

#### GENE2136X

mean -0.305 0.2473

std. dev. 0.4911 0.7909

weight sum 23 72

precision 0.0484 0.0484

#### GENE2135X

mean -0.2175 0.2114

std. dev. 0.4203 0.6893

weight sum 23 71



precision 0.0505 0.0505

#### GENE2671X

mean -0.1185 0.1141

std. dev. 0.8527 0.8401

weight sum 22 70

precision 0.0567 0.0567

#### GENE2256X

mean -0.0783 0.0463

std. dev. 0.9378 0.7482

weight sum 21 71

precision 0.0747 0.0747

#### GENE2265X

mean -0.288 0.0251

std. dev. 0.522 0.599

weight sum 20 59

precision 0.0548 0.0548

#### GENE2264X

mean -0.2683 0.0931

std. dev. 0.4869 0.4684

weight sum 20 65

precision 0.0363 0.0363

#### GENE2263X

mean -0.2188 0.0605

std. dev. 0.4755 0.5959

weight sum 20 63

precision 0.047 0.047

#### GENE2262X

mean -0.3664 0.13

std. dev. 0.7905 0.7557

weight sum 17 63

precision 0.0561 0.0561

#### GENE2261X

mean -0.2068 0.1002

std. dev. 0.4144 0.4677

weight sum 23 72

precision 0.0328 0.0328

#### GENE2260X

mean -0.595 0.0747

std. dev. 0.7959 0.8379

weight sum 20 70

precision 0.0654 0.0654

#### GENE2259X

mean -0.3542 0.1142

std. dev. 0.6762 0.5493

weight sum 21 72

precision 0.0459 0.0459

#### GENE2156X

mean -0.2338 0.1642

std. dev. 0.4598 0.532

weight sum 18 62

precision 0.0452 0.0452

#### GENE2129X

mean -0.3573 0.0969

std. dev. 0.3907 0.5196

weight sum 19 65

precision 0.0377 0.0377

#### GENE2077X

mean 0.1987 0.3467

std. dev. 0.898 1.1578

weight sum 23 70

precision 0.0618 0.0618

#### GENE2078X

mean 0.071 0.1653

std. dev. 0.7417 0.876

weight sum 19 61

precision 0.0642 0.0642

#### GENE2079X

mean -0.1814 0.1754

std. dev. 0.5476 0.5474

weight sum 20 64

precision 0.049 0.049

#### GENE2251X

mean -0.1665 0.172

std. dev. 0.3307 0.6042

weight sum 23 71

precision 0.0316 0.0316

#### GENE2252X

mean -0.0933 0.1098

std. dev. 0.3336 0.4372

weight sum 21 69

precision 0.0326 0.0326

#### GENE2253X

mean -0.0962 0.0902

std. dev. 0.467 0.5381

weight sum 23 68

precision 0.0388 0.0388

#### GENE1934X

mean -0.0673 0.0611

std. dev. 0.3879 0.3669

weight sum 23 71

precision 0.0344 0.0344

#### GENE2434X

mean -0.0984 0.1126

std. dev. 0.3605 0.4269

weight sum 22 62

precision 0.0285 0.0285

#### GENE2433X

mean -0.065 0.055

std. dev. 0.4055 0.5084

weight sum 21 64

precision 0.044 0.044

#### GENE2097X

mean -0.3122 0.1571

std. dev. 0.5912 0.6904

weight sum 23 72

precision 0.0417 0.0417

#### GENE2096X

mean -0.2612 0.1462

std. dev. 0.376 0.598

weight sum 23 72

precision 0.0439 0.0439

#### GENE2110X

mean -0.23 0.1527

std. dev. 0.6221 1.1557

weight sum 23 72

precision 0.0594 0.0594

#### GENE2109X

mean -0.4794 0.529

std. dev. 0.6174 1.3101

weight sum 23 72

precision 0.0668 0.0668

#### GENE2108X

mean -0.6201 0.2392

std. dev. 0.7058 1.2335

weight sum 23 71

precision 0.0663 0.0663

#### GENE2107X

mean -0.6187 0.2666

std. dev. 0.665 1.2974

weight sum 23 72

precision 0.0662 0.0662

#### GENE2098X

mean -0.1918 0.1604

std. dev. 0.3752 0.4355

weight sum 21 71

precision 0.028 0.028

#### GENE2099X

mean -0.7525 0.1525

std. dev. 0.8972 1.2007

weight sum 23 72

precision 0.0523 0.0523

#### GENE2100X

mean -0.5586 0.036

std. dev. 1.0155 0.9992

weight sum 21 69

precision 0.0528 0.0528

#### GENE2101X

mean -0.2358 0.1075

std. dev. 0.671 0.6855

weight sum 23 72

precision 0.0464 0.0464

#### GENE2102X

mean -0.3563 0.1576

std. dev. 0.4042 0.6399

weight sum 21 70

precision 0.0428 0.0428

#### GENE2103X

mean -0.8071 0.1033

std. dev. 0.7728 1.1102

weight sum 22 72



precision 0.0555 0.0555

#### GENE2104X

mean -0.6636 -0.0048

std. dev. 0.6219 0.872

weight sum 23 72

precision 0.0429 0.0429

#### GENE2105X

mean -0.735 0.031

std. dev. 0.606 0.9427

weight sum 23 72

precision 0.0604 0.0604

#### GENE2112X

mean -0.0812 0.1491

std. dev. 0.5647 0.7192

weight sum 23 72

precision 0.0398 0.0398

#### GENE2095X

mean -0.4718 0.2687

std. dev. 0.4945 0.7941

weight sum 22 68

precision 0.0461 0.0461

#### GENE2094X

mean -0.4199 0.066

std. dev. 0.4665 0.9134

weight sum 23 71

precision 0.0721 0.0721

#### GENE2093X

mean -0.3604 0.0889

std. dev. 0.4256 0.9684

weight sum 23 71

precision 0.0761 0.0761

#### GENE2092X

mean -0.2053 0.1427

std. dev. 0.4261 0.9333

weight sum 23 72

precision 0.0638 0.0638

#### GENE2091X

mean -0.11 0.0615

std. dev. 0.2445 0.389

weight sum 23 71

precision 0.0266 0.0266

#### GENE2090X

mean -0.3339 -0.1003

std. dev. 1.2657 1.4954

weight sum 20 68

precision 0.0726 0.0726

#### GENE2089X

mean -0.5009 -0.1278

std. dev. 1.3103 1.5961

weight sum 23 71

precision 0.0789 0.0789

#### GENE2088X

mean -0.5193 0.1569

std. dev. 1.1204 1.4569

weight sum 21 69

precision 0.079 0.079

#### GENE2087X

mean -0.3704 0.0923

std. dev. 0.9233 1.094

weight sum 20 70

precision 0.0726 0.0726

#### GENE2086X

mean -0.1867 0.1749

std. dev. 0.6926 0.9031

weight sum 20 60

precision 0.0644 0.0644

#### GENE2085X

mean -0.1798 0.1329

std. dev. 0.8057 0.784

weight sum 22 66

precision 0.0507 0.0507

#### GENE2083X

mean -0.1305 0.1471

std. dev. 0.4628 0.6468

weight sum 23 69

precision 0.0395 0.0395

#### GENE2436X

mean -0.2551 0.0435

std. dev. 0.6243 0.5635

weight sum 22 71

precision 0.0407 0.0407

#### GENE2464X

mean -0.8266 0.1866

std. dev. 0.7406 0.8075

weight sum 20 66

precision 0.0468 0.0468

#### GENE2463X

mean -1.0944 0.0586

std. dev. 0.7498 1.0357

weight sum 16 66

precision 0.073 0.073

#### GENE2462X

mean -1.5904 0.0307

std. dev. 1.0122 1.0365

weight sum 17 70

precision 0.0671 0.0671

#### GENE2461X

mean -0.6857 -0.0177

std. dev. 0.7395 0.938

weight sum 21 65

precision 0.072 0.072

#### GENE2460X

mean -0.3592 0.1257

std. dev. 0.2648 0.6917

weight sum 23 70

precision 0.0599 0.0599

#### GENE1954X

mean -0.209 0.0875

std. dev. 0.3898 0.6894

weight sum 22 68

precision 0.0541 0.0541

#### GENE1975X

mean -0.3018 0.1141

std. dev. 0.4245 0.5608

weight sum 23 72

precision 0.0365 0.0365

#### GENE1974X

mean -0.19 0.1034

std. dev. 0.44 0.7868

weight sum 20 65

precision 0.0731 0.0731

#### GENE1973X

mean -0.0997 0.045

std. dev. 0.404 0.6668

weight sum 22 72

precision 0.0499 0.0499

#### GENE1964X

mean -0.3965 0.1438

std. dev. 0.501 0.4942

weight sum 21 70

precision 0.0404 0.0404

#### GENE1963X

mean -0.0972 0.0638

std. dev. 0.4487 0.4451

weight sum 20 69

precision 0.0341 0.0341

#### GENE1966X

mean -0.3707 0.1316

std. dev. 0.4098 0.6895

weight sum 18 65

precision 0.0538 0.0538

#### GENE1967X

mean -0.2739 0.0641

std. dev. 0.4016 0.3363

weight sum 23 68

precision 0.0299 0.0299

#### GENE1968X

mean -0.1697 0.102

std. dev. 0.3582 0.4507

weight sum 22 71

precision 0.0328 0.0328

#### GENE1969X

mean -0.2657 0.0434

std. dev. 0.5027 0.541

weight sum 22 71

precision 0.0318 0.0318

#### GENE1959X

mean -0.1175 0.1377

std. dev. 0.4009 0.4901

weight sum 22 69



precision 0.0349 0.0349

#### GENE1960X

mean -0.1713 0.0943

std. dev. 0.4214 0.4496

weight sum 20 65

precision 0.0314 0.0314

#### GENE1970X

mean -0.0497 0.0437

std. dev. 0.4557 0.52

weight sum 23 68

precision 0.0381 0.0381

#### GENE1971X

mean -0.0367 0.0155

std. dev. 0.406 0.5635

weight sum 23 68

precision 0.0352 0.0352

#### GENE1972X

mean -0.0258 0.0492

std. dev. 0.4879 0.3925

weight sum 23 71

precision 0.0312 0.0312

#### GENE2076X

mean -0.2251 0.1076

std. dev. 0.4957 0.6002

weight sum 23 71

precision 0.0373 0.0373

#### GENE2075X

mean -0.0974 0.1081

std. dev. 0.3468 0.4885

weight sum 23 72

precision 0.0303 0.0303

#### GENE2074X

mean -0.0075 0.0364

std. dev. 0.2844 0.4325

weight sum 23 70

precision 0.0432 0.0432

#### GENE2072X

mean -0.1742 0.1226

std. dev. 0.4131 0.5279

weight sum 23 71

precision 0.0385 0.0385

#### GENE2080X

mean -0.0322 0.0361

std. dev. 0.5445 0.7417

weight sum 22 70

precision 0.0505 0.0505

#### GENE2081X

mean -0.01 0.0455

std. dev. 0.5549 0.8084

weight sum 23 70

precision 0.0462 0.0462

#### GENE2082X

mean 0.0159 -0.0179

std. dev. 0.5448 0.8425

weight sum 23 68

precision 0.0608 0.0608

#### GENE2524X

mean 0.0249 0.0202

std. dev. 0.2901 0.4861

weight sum 20 61

precision 0.0332 0.0332

#### GENE2520X

mean -0.1109 0.0551

std. dev. 0.4596 0.4575

weight sum 23 69

precision 0.0432 0.0432

#### GENE2521X

mean 0.0204 0.0286

std. dev. 0.3853 0.443

weight sum 22 71

precision 0.0299 0.0299

#### GENE2026X

mean -0.2003 0.0467

std. dev. 0.7339 0.6365

weight sum 21 60

precision 0.0519 0.0519

#### GENE2025X

mean -0.0828 0.0606

std. dev. 0.4659 0.5736

weight sum 23 69

precision 0.0465 0.0465

#### GENE2024X

mean -0.215 0.0835

std. dev. 0.3589 0.7626

weight sum 21 64

precision 0.0551 0.0551

#### GENE2023X

mean -0.1944 -0.1343

std. dev. 0.6955 0.7945

weight sum 23 70

precision 0.0508 0.0508

#### GENE3813X

mean -0.5236 -0.0077

std. dev. 0.8708 0.9036

weight sum 21 66

precision 0.0636 0.0636

#### GENE3814X

mean -0.4879 0.0296

std. dev. 0.8958 0.9142

weight sum 20 66

precision 0.0673 0.0673

#### GENE3703X

mean 0.0226 -0.0123

std. dev. 0.4222 0.5896

weight sum 20 65

precision 0.0502 0.0502

#### GENE3704X

mean -0.1992 -0.0252

std. dev. 0.6293 1.0304

weight sum 23 72

precision 0.079 0.079

#### GENE3705X

mean -0.1053 0.0699

std. dev. 0.4135 0.658

weight sum 22 69

precision 0.038 0.038

#### GENE2435X

mean -0.0799 0.098

std. dev. 0.2707 0.5928

weight sum 21 68

precision 0.0442 0.0442

#### GENE2126X

mean -0.0124 0.0168

std. dev. 0.4148 0.6797

weight sum 23 68

precision 0.0476 0.0476

#### GENE2572X

mean 0.0892 0.0307

std. dev. 0.4347 0.4733

weight sum 22 62

precision 0.0595 0.0595

#### GENE2067X

mean -0.6039 0.1637

std. dev. 0.6821 0.9625

weight sum 18 64

precision 0.0566 0.0566

#### GENE2066X

mean -0.6378 0.2838

std. dev. 0.6615 0.9116

weight sum 23 72

precision 0.0469 0.0469

#### GENE2065X

mean -0.4272 0.2402

std. dev. 0.4743 0.8098

weight sum 23 71

precision 0.0552 0.0552

#### GENE2505X

mean 0.0223 0.153

std. dev. 0.5843 0.7527

weight sum 23 72

precision 0.064 0.064

#### GENE2506X

mean -0.0454 0.129

std. dev. 0.398 0.7048

weight sum 22 68

precision 0.037 0.037

#### GENE2507X

mean 0.0592 0.0819

std. dev. 0.366 0.4707

weight sum 21 66



precision 0.0336 0.0336

#### GENE2127X

mean -0.3295 0.1274

std. dev. 0.9056 0.9277

weight sum 21 68

precision 0.0471 0.0471

#### GENE2587X

mean -0.14 0.0579

std. dev. 0.8415 0.8136

weight sum 20 62

precision 0.0609 0.0609

#### GENE2586X

mean -0.0524 -0.0818

std. dev. 0.3958 0.597

weight sum 20 69

precision 0.0403 0.0403

#### GENE2585X

mean -0.1104 -0.0022

std. dev. 0.4981 0.4341

weight sum 20 68

precision 0.0374 0.0374

#### GENE2042X

mean -0.1411 0.1138

std. dev. 0.5711 0.5085

weight sum 17 61

precision 0.0511 0.0511

#### GENE1881X

mean -0.1485 0.0568

std. dev. 0.5226 0.5967

weight sum 22 69

precision 0.0408 0.0408

#### GENE1886X

mean -0.0976 -0.0163

std. dev. 0.4034 0.5506

weight sum 17 62

precision 0.0405 0.0405

#### GENE1095X

mean -0.0652 0.0643

std. dev. 0.2493 0.4681

weight sum 20 68

precision 0.0383 0.0383

#### GENE1877X

mean -0.165 0.3294

std. dev. 0.4448 1.1317

weight sum 19 62

precision 0.0896 0.0896

#### GENE1876X

mean -0.1354 0.7854

std. dev. 0.7048 1.4948

weight sum 19 58

precision 0.0918 0.0918

#### GENE1962X

mean -0.0823 0.1638

std. dev. 0.3797 0.5328

weight sum 20 63

precision 0.0498 0.0498

#### GENE2608X

mean -0.0697 0.0438

std. dev. 0.4211 0.5447

weight sum 21 66

precision 0.0375 0.0375

#### GENE2607X

mean 0.0223 -0.0903

std. dev. 0.3523 0.5458

weight sum 19 61

precision 0.0471 0.0471

#### GENE2613X

mean -0.2913 0.0461

std. dev. 0.7319 0.5915

weight sum 22 71

precision 0.0475 0.0475

#### GENE2612X

mean -0.1812 0.0132

std. dev. 0.4047 0.4678

weight sum 19 59

precision 0.0355 0.0355

#### GENE2611X

mean -0.0304 0.0582

std. dev. 0.326 0.3262

weight sum 21 63

precision 0.0278 0.0278

#### GENE2692X

mean -0.1631 0.1563

std. dev. 0.5022 0.5056

weight sum 20 59

precision 0.0435 0.0435

#### GENE1927X

mean -0.1366 -0.0078

std. dev. 0.4699 0.7589

weight sum 22 68

precision 0.0589 0.0589

#### GENE1926X

mean 0.1221 0.1401

std. dev. 0.5005 0.621

weight sum 20 58

precision 0.0498 0.0498

#### GENE1924X

mean -0.4273 0.0697

std. dev. 0.5442 0.5265

weight sum 20 69

precision 0.0385 0.0385

#### GENE2958X

mean -0.1568 0.0083

std. dev. 0.3883 0.4026

weight sum 20 63

precision 0.0327 0.0327

#### GENE1868X

mean -0.014 0.0215

std. dev. 0.376 0.3368

weight sum 23 68

precision 0.0292 0.0292

#### GENE1101X

mean 0.1077 -0.0389

std. dev. 0.354 0.3047

weight sum 22 58

precision 0.0275 0.0275

#### GENE3984X

mean 0.1092 -0.0293

std. dev. 0.3475 0.3171

weight sum 21 62

precision 0.0239 0.0239

#### GENE1952X

mean -0.169 0.1378

std. dev. 0.5476 0.552

weight sum 21 68

precision 0.0455 0.0455

#### GENE1953X

mean -0.2352 0.2095

std. dev. 0.6719 0.7455

weight sum 22 62

precision 0.0562 0.0562

#### GENE1857X

mean -0.1397 -0.0437

std. dev. 0.467 0.4518

weight sum 22 71

precision 0.0307 0.0307

#### GENE1858X

mean -0.2658 0.0365

std. dev. 0.6033 0.498

weight sum 21 62

precision 0.0377 0.0377

#### GENE2609X

mean -0.0837 0.0572

std. dev. 0.3891 0.3839

weight sum 23 70

precision 0.026 0.026

#### GENE2610X

mean -0.0506 0.0082

std. dev. 0.2859 0.3869

weight sum 22 68

precision 0.031 0.031

#### GENE1880X

mean -0.2122 0.0812

std. dev. 0.5301 0.5281

weight sum 23 71

precision 0.037 0.037

#### GENE2614X

mean -0.1344 0.1463

std. dev. 0.5358 0.467

weight sum 21 66



precision 0.0455 0.0455

#### GENE3151X

mean -0.009 0.0183

std. dev. 0.3111 0.3994

weight sum 18 64

precision 0.0325 0.0325

#### GENE3152X

mean -0.0195 0.0828

std. dev. 0.3573 0.3903

weight sum 21 68

precision 0.0256 0.0256

#### GENE3153X

mean 0.076 -0.0004

std. dev. 0.2728 0.3751

weight sum 23 70

precision 0.0269 0.0269

#### GENE2553X

mean -0.098 0.1456

std. dev. 0.4854 0.7468

weight sum 23 72

precision 0.0433 0.0433

#### GENE2554X

mean -0.1253 0.1534

std. dev. 0.5662 1.1472

weight sum 20 69

precision 0.0696 0.0696

#### GENE2555X

mean -0.2055 0.101

std. dev. 0.6627 1.0047

weight sum 20 68

precision 0.0613 0.0613

#### GENE2556X

mean -0.1296 0.1675

std. dev. 0.6966 0.7885

weight sum 21 70

precision 0.0419 0.0419

#### GENE2557X

mean -0.1942 0.2266

std. dev. 0.4894 0.7488

weight sum 22 69

precision 0.0455 0.0455

#### GENE1879X

mean -0.1951 0.0304

std. dev. 0.393 0.4574

weight sum 23 64

precision 0.0374 0.0374

#### GENE3883X

mean 0.0335 -0.0375

std. dev. 0.5935 0.4606

weight sum 23 72

precision 0.0482 0.0482

#### GENE1851X

mean 0.0789 -0.0451

std. dev. 0.4097 0.5034

weight sum 22 56

precision 0.0316 0.0316

#### GENE1852X

mean -0.0082 0.1296

std. dev. 0.8356 0.831

weight sum 20 58

precision 0.0545 0.0545

#### GENE1853X

mean 0.0638 0.2383

std. dev. 0.9708 0.9337

weight sum 21 61

precision 0.0706 0.0706

#### GENE2573X

mean -0.043 0.0706

std. dev. 0.3867 0.4899

weight sum 20 67

precision 0.0358 0.0358

#### GENE3131X

mean 0.1627 -0.0775

std. dev. 0.4793 0.5475

weight sum 23 70

precision 0.0468 0.0468

#### GENE3132X

mean 0.1522 -0.0072

std. dev. 0.4282 0.4183

weight sum 22 71

precision 0.0284 0.0284

#### GENE3133X

mean -0.0894 -0.0916

std. dev. 0.4033 0.6037

weight sum 22 61

precision 0.0447 0.0447

#### GENE3134X

mean -0.1266 -0.1226

std. dev. 0.605 0.6412

weight sum 23 66

precision 0.0338 0.0338

#### GENE3135X

mean -0.0225 -0.0311

std. dev. 0.6325 0.6981

weight sum 22 72

precision 0.038 0.038

#### GENE3136X

mean -0.067 -0.015

std. dev. 0.5002 0.6584

weight sum 23 71

precision 0.0367 0.0367

#### GENE3137X

mean 0.0709 -0.0719

std. dev. 0.5502 0.6188

weight sum 23 71

precision 0.0418 0.0418

#### GENE3138X

mean 0.1596 -0.0693

std. dev. 0.5525 0.6205

weight sum 23 72

precision 0.0367 0.0367

#### GENE3139X

mean 0.2529 -0.01

std. dev. 0.737 0.6315

weight sum 23 72

precision 0.0401 0.0401

#### GENE3140X

mean 0.2212 0.0203

std. dev. 0.4634 0.3981

weight sum 22 72

precision 0.0299 0.0299

#### GENE3141X

mean 0.0738 -0.0562

std. dev. 0.4465 0.4466

weight sum 22 68

precision 0.0338 0.0338

#### GENE2465X

mean -0.3379 0.1057

std. dev. 0.3161 0.4414

weight sum 22 72

precision 0.0357 0.0357

#### GENE3065X

mean -0.0507 0.0725

std. dev. 0.3114 0.3416

weight sum 22 62

precision 0.0302 0.0302

#### GENE3066X

mean -0.0653 0.0565

std. dev. 0.3814 0.3414

weight sum 23 69

precision 0.0263 0.0263

#### GENE1847X

mean 0.0024 0.0132

std. dev. 0.6678 0.5948

weight sum 18 64

precision 0.0423 0.0423

#### GENE1846X

mean -0.1082 0.0047

std. dev. 0.5335 0.5404

weight sum 23 72

precision 0.0336 0.0336

#### GENE1139X

mean 0.0668 0.0129

std. dev. 0.2846 0.3786

weight sum 20 69

precision 0.0262 0.0262

#### GENE3215X

mean 0.0233 0.1488

std. dev. 0.4594 0.6083

weight sum 23 72



precision 0.0536 0.0536

#### GENE3214X

mean -0.3136 0.1048

std. dev. 0.4195 0.6985

weight sum 23 72

precision 0.0551 0.0551

#### GENE3086X

mean -0.1467 0.0098

std. dev. 0.3948 0.4547

weight sum 23 71

precision 0.0301 0.0301

#### GENE3087X

mean -0.1045 0.0058

std. dev. 0.3297 0.4357

weight sum 22 72

precision 0.0245 0.0245

#### GENE1895X

mean 0.0082 0.004

std. dev. 0.4115 0.3693

weight sum 22 64

precision 0.0362 0.0362

#### GENE3913X

mean -0.0172 -0.0306

std. dev. 0.3854 0.5735

weight sum 23 70

precision 0.0564 0.0564

#### GENE3912X

mean -0.0614 -0.0037

std. dev. 0.371 0.4817

weight sum 23 72

precision 0.0381 0.0381

#### GENE3911X

mean -0.1454 0.0157

std. dev. 0.317 0.4352

weight sum 22 65

precision 0.033 0.033

#### GENE1090X

mean -0.0831 0.0048

std. dev. 0.4129 0.5764

weight sum 19 60

precision 0.0478 0.0478

#### GENE3395X

mean 0.1004 0.0602

std. dev. 0.3945 0.5114

weight sum 20 61

precision 0.0346 0.0346

#### GENE3900X

mean 0.0723 -0.02

std. dev. 0.2394 0.3963

weight sum 22 66

precision 0.03 0.03

#### GENE3901X

mean -0.0187 0.0668

std. dev. 0.4084 0.5229

weight sum 19 65

precision 0.0443 0.0443

#### GENE3902X

mean 0.0202 0.1233

std. dev. 0.5599 0.5037

weight sum 23 71

precision 0.0387 0.0387

#### GENE3897X

mean -0.1301 0.035

std. dev. 0.3365 0.3502

weight sum 23 71

precision 0.0267 0.0267

#### GENE3898X

mean -0.257 0.136

std. dev. 0.3701 0.4066

weight sum 22 70

precision 0.0267 0.0267

#### GENE2574X

mean -0.0717 0.0049

std. dev. 0.4045 0.3538

weight sum 23 67

precision 0.0232 0.0232

#### GENE1009X

mean -0.0939 0.0817

std. dev. 0.3367 0.4622

weight sum 23 71

precision 0.0309 0.0309

#### GENE1010X

mean -0.1981 0.043

std. dev. 0.4451 0.4392

weight sum 23 71

precision 0.0278 0.0278

#### GENE1011X

mean -0.1558 0.0106

std. dev. 0.381 0.4408

weight sum 23 71

precision 0.028 0.028

#### GENE1012X

mean -0.2776 0.069

std. dev. 0.4058 0.5388

weight sum 23 72

precision 0.0429 0.0429

#### GENE1013X

mean -0.3188 0.1451

std. dev. 0.3443 0.531

weight sum 22 62

precision 0.0367 0.0367

#### GENE2579X

mean -0.0949 0.0112

std. dev. 0.3596 0.5286

weight sum 23 71

precision 0.042 0.042

#### GENE2580X

mean -0.0357 0.0541

std. dev. 0.4841 0.5988

weight sum 23 72

precision 0.041 0.041

#### GENE2581X

mean -0.004 -0.0045

std. dev. 0.347 0.3827

weight sum 19 68

precision 0.0383 0.0383

#### GENE2578X

mean 0.1951 0.0785

std. dev. 1.2261 0.8901

weight sum 22 66

precision 0.0681 0.0681

#### GENE2577X

mean -0.13 -0.0168

std. dev. 0.9142 1.0156

weight sum 23 72

precision 0.0712 0.0712

#### GENE2576X

mean -0.1054 -0.0613

std. dev. 0.8728 0.9945

weight sum 23 71

precision 0.0713 0.0713

#### GENE2575X

mean -0.3233 0.1054

std. dev. 0.4997 0.6469

weight sum 23 72

precision 0.0391 0.0391

#### GENE3226X

mean -0.0157 0.2217

std. dev. 1.5856 1.497

weight sum 23 72

precision 0.0722 0.0722

#### GENE3227X

mean -0.1755 0.0516

std. dev. 1.7177 1.587

weight sum 20 61

precision 0.09 0.09

#### GENE3209X

mean -0.0086 0.0425

std. dev. 0.3362 0.421

weight sum 23 71

precision 0.0282 0.0282

#### GENE3210X

mean 0.0771 0.039

std. dev. 0.3039 0.4071

weight sum 23 72

precision 0.0322 0.0322

#### GENE3211X

mean 0.0626 -0.0133

std. dev. 0.4072 0.4937

weight sum 22 70



precision 0.0444 0.0444

#### GENE3212X

mean -0.0895 0.0111

std. dev. 0.4311 0.4137

weight sum 23 69

precision 0.0294 0.0294

#### GENE3221X

mean 0.1072 -0.0538

std. dev. 0.2491 0.364

weight sum 23 69

precision 0.0329 0.0329

#### GENE3220X

mean 0.0619 -0.0538

std. dev. 0.4822 0.7057

weight sum 23 67

precision 0.0419 0.0419

#### GENE3219X

mean -0.0672 0.03

std. dev. 0.6517 0.6214

weight sum 23 72

precision 0.0386 0.0386

#### GENE3130X

mean -0.2184 -0.0343

std. dev. 0.3794 0.4656

weight sum 18 65

precision 0.0266 0.0266

#### GENE3197X

mean -0 -0.0504

std. dev. 0.3647 0.4797

weight sum 23 71

precision 0.0416 0.0416

#### GENE3920X

mean -0.0988 0.1037

std. dev. 0.6171 0.5731

weight sum 21 65

precision 0.0471 0.0471

#### GENE3919X

mean -0.1921 0.0161

std. dev. 0.5569 0.5269

weight sum 21 69

precision 0.0464 0.0464

#### GENE3918X

mean -0.5038 0.0978

std. dev. 0.7804 0.7977

weight sum 21 60

precision 0.0575 0.0575

#### GENE3917X

mean -0.4538 0.0816

std. dev. 0.6239 0.7323

weight sum 20 64

precision 0.0458 0.0458

#### GENE2624X

mean -0.0928 0.0166

std. dev. 0.3816 0.4172

weight sum 22 67

precision 0.0358 0.0358

#### GENE3155X

mean -0.0784 0.1311

std. dev. 0.2517 0.4513

weight sum 23 72

precision 0.0286 0.0286

#### GENE3154X

mean -0.0624 0.0323

std. dev. 0.262 0.4591

weight sum 23 72

precision 0.0388 0.0388

#### GENE3202X

mean -0.068 -0.0126

std. dev. 0.4792 0.5987

weight sum 20 67

precision 0.0648 0.0648

#### GENE1945X

mean -0.141 0.0202

std. dev. 0.3756 0.4245

weight sum 21 66

precision 0.0429 0.0429

#### GENE1946X

mean -0.1179 -0.0136

std. dev. 0.4768 0.6155

weight sum 22 67

precision 0.0648 0.0648

#### GENE1947X

mean -0.1208 0.1248

std. dev. 0.4441 0.5672

weight sum 23 72

precision 0.0434 0.0434

#### GENE3149X

mean 0.0379 -0.0096

std. dev. 0.6549 0.679

weight sum 23 70

precision 0.0671 0.0671

#### GENE3156X

mean -0.561 0.1522

std. dev. 0.4517 0.6246

weight sum 21 67

precision 0.0545 0.0545

#### GENE1067X

mean -0.3338 0.0768

std. dev. 0.6635 0.9483

weight sum 22 64

precision 0.0506 0.0506

#### GENE1066X

mean 0.0717 0.0922

std. dev. 0.3123 0.467

weight sum 23 70

precision 0.0351 0.0351

#### GENE1071X

mean 0.0638 0.1253

std. dev. 0.3127 0.5278

weight sum 21 68

precision 0.0406 0.0406

#### GENE1059X

mean -0.132 0.1124

std. dev. 0.5252 0.6062

weight sum 23 71

precision 0.0434 0.0434

#### GENE1058X

mean -0.2553 0.0827

std. dev. 0.5889 0.6294

weight sum 23 71

precision 0.0459 0.0459

#### GENE1057X

mean -0.1684 0.1862

std. dev. 0.7311 0.7767

weight sum 19 68

precision 0.0681 0.0681

#### GENE1056X

mean -0.0855 0.1704

std. dev. 0.7577 0.7987

weight sum 20 67

precision 0.0611 0.0611

#### GENE1055X

mean 0.0569 -0.0035

std. dev. 0.4577 0.6013

weight sum 22 62

precision 0.0544 0.0544

#### GENE1054X

mean -0.1528 -0.0049

std. dev. 0.5109 0.6553

weight sum 23 71

precision 0.0576 0.0576

#### GENE1053X

mean -0.146 -0.0129

std. dev. 0.544 0.6074

weight sum 23 70

precision 0.0646 0.0646

#### GENE1052X

mean 0.0349 -0.0496

std. dev. 0.4073 0.431

weight sum 22 70

precision 0.0334 0.0334

#### GENE3228X

mean -0.1378 0.269

std. dev. 0.3369 0.8955

weight sum 23 70

precision 0.0621 0.0621

#### GENE3229X

mean -0.3105 0.141

std. dev. 0.458 0.5703

weight sum 19 62



precision 0.0536 0.0536

#### GENE3230X

mean -0.1825 0.0663

std. dev. 0.5564 0.6451

weight sum 23 72

precision 0.0477 0.0477

#### GENE3231X

mean -0.2036 0.0574

std. dev. 0.7731 1.0338

weight sum 23 71

precision 0.0679 0.0679

#### GENE3232X

mean -0.1048 0.0765

std. dev. 0.7043 1.006

weight sum 23 72

precision 0.0574 0.0574

#### GENE3283X

mean -0.5368 0.1593

std. dev. 0.7554 0.839

weight sum 22 70

precision 0.0547 0.0547

#### GENE3284X

mean -0.3829 0.2252

std. dev. 0.6321 0.8245

weight sum 21 61

precision 0.06 0.06

#### GENE3285X

mean 0.2828 0.5689

std. dev. 1.455 1.489

weight sum 23 72

precision 0.0748 0.0748

#### GENE3286X

mean 0.2959 0.4447

std. dev. 1.3557 1.4659

weight sum 23 69

precision 0.0619 0.0619

#### GENE3287X

mean -0.36 0.1602

std. dev. 0.888 1.0418

weight sum 23 70

precision 0.0652 0.0652

#### GENE3288X

mean -0.2661 0.1937

std. dev. 0.699 0.9524

weight sum 21 68

precision 0.057 0.057

#### GENE3289X

mean -0.4164 0.1551

std. dev. 0.5394 0.6969

weight sum 21 70

precision 0.0377 0.0377

#### GENE3290X

mean -0.413 0.1816

std. dev. 0.4835 0.676

weight sum 23 71

precision 0.0381 0.0381

#### GENE3279X

mean -0.0653 0.0317

std. dev. 0.3282 0.4538

weight sum 23 71

precision 0.0341 0.0341

#### GENE3278X

mean -0.1291 0.162

std. dev. 0.6528 0.9009

weight sum 22 69

precision 0.0618 0.0618

#### GENE3277X

mean -0.0373 0.1979

std. dev. 0.6049 0.8864

weight sum 21 67

precision 0.0603 0.0603

#### GENE3276X

mean -0.0479 0.0298

std. dev. 0.6924 0.4962

weight sum 22 65

precision 0.0421 0.0421

#### GENE3275X

mean 0.1221 0.282

std. dev. 1.1699 1.2837

weight sum 20 69

precision 0.0698 0.0698

#### GENE3274X

mean 0.2451 0.2046

std. dev. 0.7566 0.8104

weight sum 22 69

precision 0.0556 0.0556

#### GENE3273X

mean -0.0989 0.0277

std. dev. 0.4332 0.4382

weight sum 21 70

precision 0.0341 0.0341

#### GENE3272X

mean -0.0305 0.1824

std. dev. 0.5439 0.716

weight sum 23 72

precision 0.0501 0.0501

#### GENE3271X

mean -0.1313 0.1465

std. dev. 0.6718 0.843

weight sum 23 72

precision 0.057 0.057

#### GENE3269X

mean -0.0612 0.057

std. dev. 0.7702 0.7489

weight sum 23 71

precision 0.0587 0.0587

#### GENE3270X

mean -0.0376 0.0849

std. dev. 0.7854 0.8101

weight sum 23 72

precision 0.0664 0.0664

#### GENE3267X

mean -0.2039 0.6814

std. dev. 0.8225 1.5286

weight sum 20 57

precision 0.1019 0.1019

#### GENE3268X

mean -0.0441 0.4069

std. dev. 0.7777 1.3065

weight sum 22 63

precision 0.0809 0.0809

#### GENE1061X

mean -0.1032 0.0702

std. dev. 0.3198 0.4722

weight sum 23 71

precision 0.0396 0.0396

#### GENE2884X

mean -0.3185 0.0699

std. dev. 0.5763 0.6812

weight sum 20 67

precision 0.0544 0.0544

#### GENE3293X

mean 0.0474 -0.0015

std. dev. 0.3699 0.4838

weight sum 20 67

precision 0.0339 0.0339

#### GENE3294X

mean 0.1016 -0.2185

std. dev. 1.0034 1.1311

weight sum 22 68

precision 0.0657 0.0657

#### GENE3365X

mean -0.3008 0.1947

std. dev. 0.6839 0.8951

weight sum 18 60

precision 0.057 0.057

#### GENE3364X

mean -0.2031 0.1744

std. dev. 0.5554 0.8633

weight sum 23 71

precision 0.0563 0.0563

#### GENE3363X

mean -0.2558 0.1296

std. dev. 0.5555 0.8569

weight sum 23 72

precision 0.053 0.053

#### GENE3362X

mean 0.0201 0.1139

std. dev. 0.5011 0.7438

weight sum 23 72



precision 0.0513 0.0513

#### GENE3300X

mean 0.039 0.0132

std. dev. 0.3125 0.5173

weight sum 22 65

precision 0.0409 0.0409

#### GENE3299X

mean -0.0248 0.1569

std. dev. 0.2569 0.557

weight sum 23 69

precision 0.0518 0.0518

#### GENE3360X

mean -0.2254 0.1693

std. dev. 0.3354 0.5096

weight sum 21 69

precision 0.0326 0.0326

#### GENE3359X

mean -0.0564 0.1117

std. dev. 0.6975 0.8233

weight sum 23 71

precision 0.0499 0.0499

#### GENE3358X

mean -0.239 0.1081

std. dev. 0.8013 0.7553

weight sum 21 65

precision 0.0558 0.0558

#### GENE3302X

mean -0.2641 0.0947

std. dev. 1.2674 1.2333

weight sum 20 64

precision 0.0777 0.0777

#### GENE3354X

mean -0.4872 0.0815

std. dev. 0.6261 0.742

weight sum 20 67

precision 0.0492 0.0492

#### GENE3355X

mean -0.2662 0.1636

std. dev. 0.4888 0.8195

weight sum 23 69

precision 0.0532 0.0532

#### GENE3306X

mean -0.1041 0.1338

std. dev. 0.6809 0.9038

weight sum 23 63

precision 0.0521 0.0521

#### GENE3305X

mean -0.0848 -0.035

std. dev. 0.7143 0.8452

weight sum 23 61

precision 0.061 0.061

#### GENE3353X

mean -0.2114 -0.0567

std. dev. 0.5813 0.5585

weight sum 23 68

precision 0.0419 0.0419

#### GENE3352X

mean -0.1427 -0.0732

std. dev. 0.4881 0.6282

weight sum 23 72

precision 0.0432 0.0432

#### GENE3351X

mean -0.2813 0.0666

std. dev. 0.5687 0.6242

weight sum 22 70

precision 0.0382 0.0382

#### GENE3350X

mean -0.2423 0.0821

std. dev. 0.6428 0.5636

weight sum 23 70

precision 0.0442 0.0442

#### GENE3349X

mean -0.2071 0.0677

std. dev. 0.6382 0.594

weight sum 23 71

precision 0.0437 0.0437

#### GENE3348X

mean -0.2276 0.0331

std. dev. 0.6069 0.664

weight sum 23 71

precision 0.0451 0.0451

#### GENE3356X

mean -0.1893 0.153

std. dev. 0.3798 0.647

weight sum 22 66

precision 0.0521 0.0521

#### GENE3357X

mean -0.3394 0.1644

std. dev. 0.3616 0.658

weight sum 20 69

precision 0.0392 0.0392

#### GENE3347X

mean -0.4075 0.0884

std. dev. 0.6972 0.7075

weight sum 20 57

precision 0.0536 0.0536

#### GENE3346X

mean -0.2135 0.0201

std. dev. 0.9236 1.2503

weight sum 21 70

precision 0.064 0.064

#### GENE3345X

mean -0.2286 0.1557

std. dev. 0.4275 0.7454

weight sum 22 67

precision 0.0466 0.0466

#### GENE3344X

mean -0.3031 0.1502

std. dev. 0.4902 0.7996

weight sum 21 58

precision 0.0451 0.0451

#### GENE3342X

mean -0.4306 0.1734

std. dev. 0.9781 1.2411

weight sum 23 63

precision 0.0728 0.0728

#### GENE3343X

mean -0.1935 0.2606

std. dev. 0.7386 1.1054

weight sum 21 64

precision 0.0607 0.0607

#### GENE3315X

mean -0.6848 0.1088

std. dev. 0.8132 0.9484

weight sum 22 71

precision 0.054 0.054

#### GENE3316X

mean -0.2228 0.1644

std. dev. 0.4875 0.7149

weight sum 20 67

precision 0.049 0.049

#### GENE3317X

mean -0.1936 0.6832

std. dev. 1.1315 1.4866

weight sum 23 68

precision 0.0718 0.0718

#### GENE3318X

mean -0.5975 0.3444

std. dev. 0.9818 1.459

weight sum 23 68

precision 0.0701 0.0701

#### GENE3319X

mean -0.7964 0.3424

std. dev. 1.0362 1.5126

weight sum 20 60

precision 0.087 0.087

#### GENE3320X

mean -0.3968 0.3267

std. dev. 1.4986 1.6835

weight sum 18 62

precision 0.0978 0.0978

#### GENE3321X

mean 0.0301 0.3031

std. dev. 1.5303 1.8049

weight sum 20 63

precision 0.086 0.086

#### GENE3322X

mean -0.4947 0.013

std. dev. 0.7848 1.165

weight sum 22 68



precision 0.0591 0.0591

#### GENE3323X

mean -0.338 -0.0139

std. dev. 0.7686 1.1272

weight sum 20 69

precision 0.0638 0.0638

#### GENE3324X

mean -0.4156 0.4183

std. dev. 0.8133 1.1542

weight sum 23 72

precision 0.0601 0.0601

#### GENE3325X

mean -0.5561 0.5405

std. dev. 0.7963 1.2526

weight sum 23 69

precision 0.0598 0.0598

#### GENE3326X

mean -0.2517 0.0865

std. dev. 0.3586 0.7073

weight sum 22 71

precision 0.0401 0.0401

#### GENE3327X

mean -0.2785 0.4326

std. dev. 0.5353 0.9971

weight sum 21 66

precision 0.0573 0.0573

#### GENE3328X

mean -0.2294 0.3183

std. dev. 0.4304 1.0912

weight sum 23 69

precision 0.0573 0.0573

#### GENE3329X

mean -0.4672 0.3473

std. dev. 0.5821 1.1835

weight sum 19 65

precision 0.0588 0.0588

#### GENE3330X

mean -0.1249 0.3798

std. dev. 0.415 0.9608

weight sum 23 69

precision 0.0504 0.0504

#### GENE3331X

mean -0.1094 0.3633

std. dev. 0.5102 1.0424

weight sum 22 63

precision 0.0512 0.0512

#### GENE3332X

mean -0.136 1.0237

std. dev. 0.9046 1.9882

weight sum 23 68

precision 0.0782 0.0782

#### GENE3333X

mean -0.0209 0.2928

std. dev. 0.5376 1.06

weight sum 23 68

precision 0.0534 0.0534

#### GENE3334X

mean -1.1803 0.3282

std. dev. 0.8697 1.2533

weight sum 20 61

precision 0.0874 0.0874

#### GENE3335X

mean -1.0272 0.4565

std. dev. 0.6705 1.304

weight sum 21 66

precision 0.0873 0.0873

#### GENE3336X

mean -0.1752 0.1606

std. dev. 0.4268 0.6145

weight sum 21 66

precision 0.04 0.04

#### GENE3337X

mean -0.3055 0.205

std. dev. 0.4558 0.7416

weight sum 22 70

precision 0.0605 0.0605

#### GENE3338X

mean -0.1885 0.2188

std. dev. 0.4742 0.78

weight sum 23 62

precision 0.0556 0.0556

#### GENE3339X

mean -0.0676 0.0332

std. dev. 0.5233 0.6906

weight sum 23 66

precision 0.0457 0.0457

#### GENE3340X

mean -0.2245 0.0678

std. dev. 0.7536 1.1334

weight sum 23 72

precision 0.0567 0.0567

#### GENE3341X

mean -0.3119 -0.056

std. dev. 0.7978 1.1592

weight sum 23 72

precision 0.064 0.064

#### GENE3314X

mean -0.5885 0.3652

std. dev. 0.786 1.2437

weight sum 23 69

precision 0.072 0.072

#### GENE3313X

mean -0.3375 -0.038

std. dev. 0.6571 0.763

weight sum 22 66

precision 0.0473 0.0473

#### GENE3312X

mean -0.2279 0.5392

std. dev. 1.1421 1.463

weight sum 20 61

precision 0.0701 0.0701

#### GENE3311X

mean -0.0025 0.4321

std. dev. 0.9141 1.1325

weight sum 23 71

precision 0.0578 0.0578

#### GENE3309X

mean -0.3881 0.0383

std. dev. 0.6716 0.8818

weight sum 20 70

precision 0.0547 0.0547

#### GENE3308X

mean -0.3464 0.0356

std. dev. 0.5013 0.6676

weight sum 22 67

precision 0.0508 0.0508

#### GENE3307X

mean -0.2343 0.0342

std. dev. 0.4666 0.7106

weight sum 18 63

precision 0.0449 0.0449

#### GENE3303X

mean -0.3075 0.0187

std. dev. 1.441 1.4046

weight sum 23 72

precision 0.0673 0.0673

#### GENE3310X

mean -0.2244 0.1625

std. dev. 0.4363 0.8765

weight sum 23 59

precision 0.0492 0.0492

#### GENE3266X

mean -0.0915 0.0325

std. dev. 0.2703 0.4371

weight sum 23 67

precision 0.0369 0.0369

#### GENE3361X

mean 0.0257 0.5803

std. dev. 1.08 1.5306

weight sum 23 72

precision 0.0738 0.0738

#### GENE3298X

mean 0.0539 -0.0311

std. dev. 0.3927 0.5515

weight sum 22 65

precision 0.0349 0.0349

#### GENE3297X

mean -0.0056 0.0281

std. dev. 0.9288 1.1006

weight sum 20 64



precision 0.0562 0.0562

#### GENE3296X

mean -0.078 -0.1535

std. dev. 0.8327 1.0368

weight sum 23 61

precision 0.0561 0.0561

#### GENE3295X

mean -0.0213 -0.2471

std. dev. 1.4111 1.5124

weight sum 21 59

precision 0.0895 0.0895

#### GENE3366X

mean 0.0662 0.0793

std. dev. 0.6741 0.8268

weight sum 23 66

precision 0.0476 0.0476

#### GENE3251X

mean -0.2208 -0.1159

std. dev. 0.6243 0.8636

weight sum 17 68

precision 0.0626 0.0626

#### GENE3252X

mean -0.5112 0.2322

std. dev. 0.9517 1.1342

weight sum 19 65

precision 0.0619 0.0619

#### GENE3253X

mean -0.1999 0.1298

std. dev. 0.527 0.7166

weight sum 21 64

precision 0.0437 0.0437

#### GENE3254X

mean -0.3834 0.1731

std. dev. 0.5025 0.6533

weight sum 21 59

precision 0.0415 0.0415

#### GENE3255X

mean -0.4671 0.1632

std. dev. 0.6271 0.6041

weight sum 23 67

precision 0.0475 0.0475

#### GENE3258X

mean -0.9781 0.2128

std. dev. 1.0636 0.9698

weight sum 23 72

precision 0.0697 0.0697

#### GENE3257X

mean -0.8845 0.1683

std. dev. 1.062 1.0822

weight sum 21 71

precision 0.0761 0.0761

#### GENE3260X

mean -1.0077 0.0801

std. dev. 0.9258 1.089

weight sum 21 70

precision 0.071 0.071

#### GENE3259X

mean -0.9812 0.1803

std. dev. 0.8989 1.0289

weight sum 22 70

precision 0.0664 0.0664

#### GENE3256X

mean -0.5629 0.0743

std. dev. 1.0035 1.1277

weight sum 23 71

precision 0.0685 0.0685

#### GENE3261X

mean -0.5527 0.2201

std. dev. 0.6725 0.79

weight sum 21 67

precision 0.0561 0.0561

#### GENE3262X

mean -0.2656 0.1418

std. dev. 0.4567 0.6496

weight sum 21 67

precision 0.0516 0.0516

#### GENE3263X

mean -0.367 0.0864

std. dev. 0.4536 0.6574

weight sum 23 72

precision 0.0505 0.0505

#### GENE3264X

mean -0.4583 0.2935

std. dev. 0.5539 0.8831

weight sum 20 62

precision 0.0674 0.0674

#### GENE3265X

mean -0.4197 0.4078

std. dev. 0.5444 1.0375

weight sum 22 59

precision 0.0674 0.0674

#### GENE3367X

mean -0.1656 -0.0007

std. dev. 0.6732 0.5929

weight sum 23 72

precision 0.0482 0.0482

#### GENE3368X

mean -0.2734 0.0366

std. dev. 0.8513 0.6103

weight sum 22 64

precision 0.0601 0.0601

#### GENE3369X

mean -0.1012 0.1374

std. dev. 0.8199 0.5992

weight sum 21 65

precision 0.0607 0.0607

#### GENE3250X

mean -0.2054 0.0762

std. dev. 0.5552 0.5728

weight sum 23 66

precision 0.0508 0.0508

#### GENE3079X

mean 0.0224 -0.0237

std. dev. 0.3545 0.3791

weight sum 22 72

precision 0.029 0.029

#### GENE3370X

mean -0.0211 0.1268

std. dev. 0.7067 0.8759

weight sum 23 71

precision 0.0539 0.0539

#### GENE3377X

mean -0.258 -0.0115

std. dev. 0.494 0.6587

weight sum 23 65

precision 0.0499 0.0499

#### GENE3378X

mean -0.16 0.0436

std. dev. 0.3513 0.5547

weight sum 20 60

precision 0.0451 0.0451

#### GENE3247X

mean -0.0611 -0.0152

std. dev. 0.3642 0.3961

weight sum 23 71

precision 0.0327 0.0327

#### GENE3246X

mean -0.2734 0.1358

std. dev. 0.512 0.6495

weight sum 19 58

precision 0.0571 0.0571

#### GENE3245X

mean -0.065 -0.1208

std. dev. 1.0234 1.204

weight sum 23 72

precision 0.068 0.068

#### GENE3244X

mean -0.0568 0.0215

std. dev. 1.1446 1.1393

weight sum 23 72

precision 0.0594 0.0594

#### GENE3243X

mean -0.0995 -0.0503

std. dev. 1.3799 1.175

weight sum 22 69

precision 0.0755 0.0755

#### GENE3242X

mean 0.0918 0.0691

std. dev. 0.8508 0.7586

weight sum 23 72



precision 0.0502 0.0502

#### GENE3241X

mean -0.2567 0.1041

std. dev. 0.9854 1.095

weight sum 20 62

precision 0.0778 0.0778

#### GENE3240X

mean -0.3172 0.1171

std. dev. 1.113 1.1936

weight sum 23 72

precision 0.0669 0.0669

#### GENE3239X

mean -0.4973 0.0359

std. dev. 1.1105 1.1666

weight sum 23 68

precision 0.0697 0.0697

#### GENE3238X

mean -0.1506 0.025

std. dev. 0.7058 0.8593

weight sum 21 62

precision 0.062 0.062

#### GENE3237X

mean -0.1788 0.0409

std. dev. 0.5185 0.7055

weight sum 21 60

precision 0.0481 0.0481

#### GENE3236X

mean -0.1436 0.1229

std. dev. 0.8619 1.0942

weight sum 20 63

precision 0.0668 0.0668

#### GENE3235X

mean -0.003 -0.2138

std. dev. 0.8339 1.2965

weight sum 23 70

precision 0.0696 0.0696

#### GENE3234X

mean 0.1474 -0.1886

std. dev. 0.7518 1.1196

weight sum 23 71

precision 0.0565 0.0565

#### GENE3233X

mean 0.2139 -0.108

std. dev. 0.7498 0.7355

weight sum 22 61

precision 0.0554 0.0554

#### GENE3248X

mean -0.0692 -0.0252

std. dev. 0.4439 0.5377

weight sum 23 72

precision 0.0442 0.0442

#### GENE3249X

mean -0.1575 -0.0716

std. dev. 0.4162 0.4465

weight sum 21 66

precision 0.0363 0.0363

#### GENE999X

mean 0.1142 -0.0826

std. dev. 0.4147 0.466

weight sum 22 64

precision 0.0441 0.0441

#### GENE369X

mean 0.1399 -0.1045

std. dev. 0.3459 0.6449

weight sum 22 66

precision 0.0616 0.0616

#### GENE3190X

mean -0.0072 -0.0733

std. dev. 0.4636 0.5487

weight sum 23 71

precision 0.0416 0.0416

#### GENE3189X

mean -0.1294 -0.0581

std. dev. 0.4037 0.635

weight sum 17 62

precision 0.05 0.05

#### GENE3188X

mean -0.0524 -0.0365

std. dev. 0.3849 0.4222

weight sum 21 67

precision 0.0306 0.0306

#### GENE191X

mean 0.1364 0.0056

std. dev. 0.4831 0.5861

weight sum 23 68

precision 0.0378 0.0378

#### GENE192X

mean -0.0304 -0.1315

std. dev. 0.4636 0.6866

weight sum 20 62

precision 0.0434 0.0434

#### GENE3383X

mean -0.0294 0.0039

std. dev. 0.5355 0.8715

weight sum 21 72

precision 0.0562 0.0562

#### GENE3376X

mean -0.1185 -0.0633

std. dev. 0.3285 0.6312

weight sum 22 68

precision 0.0435 0.0435

#### GENE3375X

mean -0.1311 0.0182

std. dev. 0.3731 0.6739

weight sum 23 71

precision 0.0478 0.0478

#### GENE3374X

mean -0.1377 -0.0327

std. dev. 0.3405 0.6919

weight sum 23 71

precision 0.0446 0.0446

#### GENE3379X

mean 0.0462 -0.003

std. dev. 0.5815 0.7275

weight sum 23 65

precision 0.0483 0.0483

#### GENE3380X

mean 0.0217 -0.1464

std. dev. 0.4463 0.9921

weight sum 23 72

precision 0.0712 0.0712

#### GENE3381X

mean -0.1722 -0.0563

std. dev. 0.499 0.6589

weight sum 21 70

precision 0.054 0.054

#### GENE3382X

mean -0.1064 -0.0181

std. dev. 0.5558 0.6564

weight sum 23 71

precision 0.0401 0.0401

#### GENE3150X

mean -0.0762 0.041

std. dev. 0.3667 0.3729

weight sum 22 69

precision 0.0349 0.0349

#### GENE1074X

mean -0.0467 -0.0194

std. dev. 0.6059 0.5897

weight sum 23 72

precision 0.0358 0.0358

#### GENE1073X

mean -0.2049 0.1431

std. dev. 0.5683 0.7331

weight sum 23 71

precision 0.0491 0.0491

#### GENE1072X

mean -0.1841 0.1943

std. dev. 0.5505 0.7213

weight sum 23 72

precision 0.0415 0.0415

#### GENE1841X

mean -0.283 0.1306

std. dev. 0.7084 0.6321

weight sum 20 69

precision 0.0472 0.0472

#### GENE3390X

mean 0.2997 0.1436

std. dev. 2.421 1.936

weight sum 23 72



precision 0.1077 0.1077

#### GENE3389X

mean -0.2067 -0.3993

std. dev. 1.9919 2.0301

weight sum 20 64

precision 0.106 0.106

#### GENE3388X

mean 0.1232 -0.3132

std. dev. 0.9437 1.2915

weight sum 22 71

precision 0.0695 0.0695

#### GENE3397X

mean -0.318 0.1129

std. dev. 0.4927 0.702

weight sum 23 72

precision 0.0406 0.0406

#### GENE3396X

mean -0.1799 0.0945

std. dev. 0.4673 0.5348

weight sum 22 65

precision 0.0507 0.0507

#### GENE3394X

mean -0.5454 0.1049

std. dev. 0.7364 0.7979

weight sum 21 63

precision 0.057 0.057

#### GENE3393X

mean -0.5422 0.4216

std. dev. 0.9844 1.2517

weight sum 23 71

precision 0.0674 0.0674

#### GENE3392X

mean -0.4868 0.4227

std. dev. 1.2657 1.3414

weight sum 20 66

precision 0.0773 0.0773

#### GENE3391X

mean -0.4288 0.27

std. dev. 1.1977 1.5464

weight sum 23 71

precision 0.0795 0.0795

#### GENE3928X

mean -0.0634 -0.0571

std. dev. 0.3887 0.4019

weight sum 20 68

precision 0.0384 0.0384

#### GENE3927X

mean -0.4448 0.0289

std. dev. 0.7829 0.7663

weight sum 20 58

precision 0.0578 0.0578

#### GENE3858X

mean -0.2134 -0.0455

std. dev. 0.4548 0.6677

weight sum 23 72

precision 0.0496 0.0496

#### GENE50X

mean -0.0602 0.0634

std. dev. 0.3191 0.4027

weight sum 20 63

precision 0.0273 0.0273

#### GENE1044X

mean -0.1473 0.0435

std. dev. 0.3908 0.6803

weight sum 22 71

precision 0.0499 0.0499

#### GENE1045X

mean -0.0427 -0.0664

std. dev. 0.3575 0.5102

weight sum 21 60

precision 0.0498 0.0498

#### GENE975X

mean 0.1139 0.0078

std. dev. 0.2218 0.5314

weight sum 20 68

precision 0.053 0.053

#### GENE3205X

mean -0.0142 0.0689

std. dev. 0.3257 0.4383

weight sum 23 71

precision 0.0466 0.0466

#### GENE25X

mean 0.1028 0.0595

std. dev. 0.423 0.4684

weight sum 23 72

precision 0.0296 0.0296

#### GENE24X

mean 0.0978 0.0435

std. dev. 0.4509 0.5032

weight sum 23 70

precision 0.0469 0.0469

#### GENE1082X

mean 0.1519 -0.0195

std. dev. 0.7439 0.9156

weight sum 23 69

precision 0.0537 0.0537

#### GENE1083X

mean 0.1019 0.1546

std. dev. 0.9407 1.0476

weight sum 20 67

precision 0.0582 0.0582

#### GENE1084X

mean 0.2344 -0.0385

std. dev. 0.5378 0.6015

weight sum 23 70

precision 0.0449 0.0449

#### GENE1845X

mean -0.3713 -0.0059

std. dev. 0.6357 0.9157

weight sum 22 65

precision 0.0552 0.0552

#### GENE1001X

mean 0.039 0.1691

std. dev. 0.834 1.2316

weight sum 22 71

precision 0.0858 0.0858

#### GENE1000X

mean 0.1309 0.1186

std. dev. 1.0851 1.2686

weight sum 23 63

precision 0.1038 0.1038

#### GENE3186X

mean -0.1036 -0.0836

std. dev. 0.3305 0.418

weight sum 21 67

precision 0.033 0.033

#### GENE3185X

mean 0.0029 -0.0339

std. dev. 0.4539 0.4374

weight sum 23 71

precision 0.0334 0.0334

#### GENE3184X

mean -0.055 -0.0171

std. dev. 0.5151 0.3695

weight sum 23 69

precision 0.0281 0.0281

#### GENE4025X

mean 0.1444 0.0017

std. dev. 0.3356 0.3725

weight sum 22 65

precision 0.0378 0.0378

#### GENE1085X

mean 0.0224 0.0194

std. dev. 0.3155 0.3687

weight sum 22 70

precision 0.0411 0.0411

#### GENE2571X

mean -0.0113 -0.0086

std. dev. 0.3336 0.5089

weight sum 20 59

precision 0.0567 0.0567

#### GENE1442X

mean 0.0453 -0.033

std. dev. 0.335 0.4719

weight sum 21 61

precision 0.038 0.038

#### GENE3387X

mean 0.1543 -0.0836

std. dev. 0.4876 0.5427

weight sum 23 65



precision 0.0449 0.0449

#### GENE3386X

mean 0.2211 -0.0332

std. dev. 0.4244 0.5415

weight sum 23 68

precision 0.0442 0.0442

#### GENE1844X

mean 0.0502 0.0675

std. dev. 0.6707 0.6716

weight sum 23 72

precision 0.0412 0.0412

#### GENE1008X

mean -0.0455 0.0551

std. dev. 0.2921 0.3429

weight sum 23 71

precision 0.0275 0.0275

#### GENE4024X

mean 0.1285 0.067

std. dev. 0.5004 0.4449

weight sum 23 70

precision 0.0299 0.0299

#### GENE3121X

mean 0.1825 0.0245

std. dev. 0.5424 0.4357

weight sum 23 72

precision 0.0442 0.0442

#### GENE3122X

mean -0.1077 -0.0074

std. dev. 0.7924 1.2107

weight sum 23 72

precision 0.067 0.067

#### GENE58X

mean 0.231 -0.0168

std. dev. 0.5919 0.3702

weight sum 23 72

precision 0.0526 0.0526

#### GENE1094X

mean 0.0909 -0.0021

std. dev. 0.4797 0.4903

weight sum 23 71

precision 0.0299 0.0299

#### GENE1093X

mean 0.1939 0.0763

std. dev. 0.6192 0.5394

weight sum 22 70

precision 0.0399 0.0399

#### GENE4000X

mean 0.1225 -0.0333

std. dev. 0.3009 0.3282

weight sum 23 71

precision 0.0414 0.0414

#### GENE4002X

mean 0.33 0.1125

std. dev. 1.1932 0.9476

weight sum 22 59

precision 0.0885 0.0885

#### GENE4001X

mean 0.2351 0.1474

std. dev. 1.0315 0.8365

weight sum 22 59

precision 0.0784 0.0784

#### GENE14X

mean 0 -0.0145

std. dev. 0.4941 0.5052

weight sum 21 63

precision 0.0457 0.0457

#### GENE3910X

mean -0.0242 0.0235

std. dev. 0.4831 0.5246

weight sum 22 68

precision 0.038 0.038

#### GENE3909X

mean 0.0028 -0.0211

std. dev. 0.9348 1.0687

weight sum 23 72

precision 0.0633 0.0633

#### GENE26X

mean 0.0427 0.0028

std. dev. 0.6253 0.8048

weight sum 23 70

precision 0.0491 0.0491

#### GENE3178X

mean 0.0812 0.0328

std. dev. 0.3032 0.4593

weight sum 22 70

precision 0.0319 0.0319

#### GENE3999X

mean 0.2168 -0.0644

std. dev. 0.4214 0.3635

weight sum 18 60

precision 0.0379 0.0379

#### GENE3998X

mean 0.2956 -0.0615

std. dev. 0.694 0.4596

weight sum 21 61

precision 0.0463 0.0463

#### GENE3997X

mean 0.1658 0.0623

std. dev. 0.5081 0.4419

weight sum 23 69

precision 0.0347 0.0347

#### GENE3996X

mean 0.0106 0.0652

std. dev. 0.5882 0.3549

weight sum 23 64

precision 0.0348 0.0348

#### GENE40X

mean -0.1175 0.0072

std. dev. 0.4798 0.4842

weight sum 23 70

precision 0.0422 0.0422

#### GENE41X

mean 0.2676 -0.065

std. dev. 0.4152 0.4745

weight sum 23 72

precision 0.0369 0.0369

#### GENE3204X

mean 0.194 -0.0078

std. dev. 0.4345 0.4818

weight sum 23 70

precision 0.0343 0.0343

#### GENE3206X

mean -0.029 -0.0008

std. dev. 0.3466 0.4301

weight sum 21 65

precision 0.0508 0.0508

#### GENE3207X

mean 0.0554 -0.0006

std. dev. 0.4359 0.3954

weight sum 23 69

precision 0.0439 0.0439

#### GENE3908X

mean 0.0713 0.016

std. dev. 0.3591 0.3846

weight sum 22 66

precision 0.0302 0.0302

#### GENE164X

mean 0.0632 0.0226

std. dev. 0.3057 0.4465

weight sum 22 70

precision 0.0479 0.0479

#### GENE53X

mean 0.123 0.0182

std. dev. 0.283 0.3733

weight sum 23 71

precision 0.0275 0.0275

#### GENE3158X

mean -0.1532 0.0486

std. dev. 0.7787 0.8032

weight sum 19 65

precision 0.0619 0.0619

#### GENE1023X

mean -0.0201 0.0449

std. dev. 0.3089 0.4324

weight sum 23 68

precision 0.0355 0.0355

#### GENE3071X

mean -0.0777 0.0594

std. dev. 0.3765 0.3283

weight sum 21 70



precision 0.0297 0.0297

#### GENE43X

mean 0.0438 0.0454

std. dev. 0.2984 0.3662

weight sum 22 72

precision 0.0311 0.0311

#### GENE3907X

mean 0.0075 0.0109

std. dev. 0.4422 0.3955

weight sum 18 62

precision 0.0337 0.0337

#### GENE3930X

mean 0.1587 0.0032

std. dev. 0.4117 0.4269

weight sum 23 68

precision 0.0365 0.0365

#### GENE3955X

mean 0.8483 -0.1039

std. dev. 0.8919 0.8452

weight sum 22 71

precision 0.0653 0.0653

#### GENE3956X

mean 0.7853 -0.1647

std. dev. 0.9655 0.9086

weight sum 23 72

precision 0.0608 0.0608

#### GENE3957X

mean 0.5505 -0.0366

std. dev. 0.76 0.6147

weight sum 23 71

precision 0.0464 0.0464

#### GENE3958X

mean 0.4631 -0.2228

std. dev. 0.6665 0.6478

weight sum 23 72

precision 0.0449 0.0449

#### GENE3144X

mean 0.0654 -0.0115

std. dev. 0.3439 0.4048

weight sum 23 72

precision 0.0259 0.0259

#### GENE3112X

mean -0.0912 0.015

std. dev. 0.3765 0.4587

weight sum 23 71

precision 0.0396 0.0396

#### GENE3113X

mean 0.0493 -0.034

std. dev. 0.2888 0.3677

weight sum 23 72

precision 0.0298 0.0298

#### GENE31X

mean 0.0088 -0.0057

std. dev. 0.4828 0.631

weight sum 23 71

precision 0.0407 0.0407

#### GENE32X

mean -0.0197 0.0841

std. dev. 0.523 0.6634

weight sum 22 72

precision 0.0432 0.0432

#### GENE33X

mean -0.1222 0.0627

std. dev. 0.501 0.5087

weight sum 23 72

precision 0.037 0.037

#### GENE34X

mean -0.1115 0.0696

std. dev. 0.5062 0.5024

weight sum 23 72

precision 0.0389 0.0389

#### GENE42X

mean 0.1019 -0.0774

std. dev. 0.4698 0.5703

weight sum 23 68

precision 0.0361 0.0361

#### GENE1788X

mean 0.0851 0.024

std. dev. 0.7405 0.7629

weight sum 23 72

precision 0.0576 0.0576

#### GENE1106X

mean 0.1963 0.0449

std. dev. 0.564 0.5858

weight sum 17 63

precision 0.0463 0.0463

#### GENE1105X

mean -0.0515 0.0228

std. dev. 0.6815 0.6196

weight sum 20 71

precision 0.0491 0.0491

#### GENE1104X

mean -0.0831 -0.0331

std. dev. 0.4339 0.4089

weight sum 23 72

precision 0.0277 0.0277

#### GENE1850X

mean -0.1183 0.0829

std. dev. 0.3572 0.3638

weight sum 23 72

precision 0.0278 0.0278

#### GENE1849X

mean -0.1303 0.1414

std. dev. 0.4235 0.4399

weight sum 23 71

precision 0.0329 0.0329

#### GENE1848X

mean 0.0329 0.0757

std. dev. 0.2977 0.3008

weight sum 23 70

precision 0.0252 0.0252

#### GENE1869X

mean -0.1158 0.0187

std. dev. 0.3038 0.2851

weight sum 23 69

precision 0.0404 0.0404

#### GENE3167X

mean -0.035 0.0113

std. dev. 0.3052 0.3615

weight sum 23 71

precision 0.0424 0.0424

#### GENE44X

mean -0.1269 0.0508

std. dev. 0.2165 0.3228

weight sum 23 69

precision 0.0278 0.0278

#### GENE3904X

mean -0.0561 -0.0077

std. dev. 0.4602 0.5589

weight sum 23 71

precision 0.0391 0.0391

#### GENE3903X

mean -0.0496 -0.0191

std. dev. 0.4773 0.5844

weight sum 21 70

precision 0.0372 0.0372

#### GENE27X

mean 0.0909 0.0799

std. dev. 0.4153 0.557

weight sum 23 72

precision 0.0475 0.0475

#### GENE65X

mean 0.1679 -0.025

std. dev. 0.3614 0.3572

weight sum 23 62

precision 0.0254 0.0254

#### GENE66X

mean 0.085 -0.0802

std. dev. 0.3334 0.3244

weight sum 23 70

precision 0.0251 0.0251

#### GENE3894X

mean 0.1039 0.0055

std. dev. 0.4647 0.6892

weight sum 22 68

precision 0.0467 0.0467

#### GENE3895X

mean 0.0285 0.013

std. dev. 0.454 0.4261

weight sum 23 72



precision 0.0468 0.0468

#### GENE3915X

mean 0.1848 0.0438

std. dev. 0.5381 0.7284

weight sum 23 70

precision 0.0538 0.0538

#### GENE3916X

mean 0.1277 0.0282

std. dev. 0.5613 0.8157

weight sum 23 70

precision 0.0506 0.0506

#### GENE1097X

mean -0.2477 0.106

std. dev. 0.7359 0.8622

weight sum 20 63

precision 0.0751 0.0751

#### GENE3926X

mean -0.1234 -0.0013

std. dev. 0.3888 0.3372

weight sum 23 64

precision 0.027 0.027

#### GENE1870X

mean -0.1729 0.0798

std. dev. 0.3661 0.3503

weight sum 18 64

precision 0.0338 0.0338

#### GENE3182X

mean -0.1677 0.0309

std. dev. 0.4054 0.3692

weight sum 19 63

precision 0.059 0.059

#### GENE1098X

mean 0.1878 -0.0695

std. dev. 0.4888 0.5381

weight sum 22 63

precision 0.0409 0.0409

#### GENE1099X

mean 0.4186 -0.0342

std. dev. 1.1005 1.2212

weight sum 23 72

precision 0.0523 0.0523

#### GENE1100X

mean -0.014 -0.1042

std. dev. 1.546 1.4249

weight sum 21 69

precision 0.0733 0.0733

#### GENE3859X

mean -0.3351 0.1453

std. dev. 0.654 0.5948

weight sum 21 66

precision 0.0554 0.0554

#### GENE1145X

mean 0.0178 -0.1276

std. dev. 0.6482 0.7998

weight sum 20 62

precision 0.0889 0.0889

#### GENE2618X

mean -0.0509 -0.1978

std. dev. 0.5836 0.6457

weight sum 20 62

precision 0.0443 0.0443

#### GENE1102X

mean 0.0711 -0.017

std. dev. 0.339 0.4319

weight sum 22 65

precision 0.046 0.046

#### GENE1103X

mean -0.0416 -0.0491

std. dev. 0.3225 0.3376

weight sum 23 70

precision 0.033 0.033

#### GENE3183X

mean -0.3929 0.0272

std. dev. 0.9839 0.6195

weight sum 19 61

precision 0.0593 0.0593

#### GENE1472X

mean 0.0897 0.1549

std. dev. 0.7083 0.8853

weight sum 23 67

precision 0.059 0.059

#### GENE1473X

mean 0.1968 0.1454

std. dev. 0.6491 0.8162

weight sum 23 67

precision 0.0573 0.0573

#### GENE1474X

mean 0.1093 0.1768

std. dev. 0.7168 0.9213

weight sum 23 70

precision 0.0662 0.0662

#### GENE155X

mean 0.2322 0.155

std. dev. 0.5444 0.8835

weight sum 21 64

precision 0.0561 0.0561

#### GENE2965X

mean -0.1007 0.1773

std. dev. 0.5959 0.8793

weight sum 18 64

precision 0.0954 0.0954

#### GENE1449X

mean -0.0889 0.1352

std. dev. 0.4357 0.5627

weight sum 23 69

precision 0.0524 0.0524

#### GENE1448X

mean -0.0033 0.0781

std. dev. 0.6495 0.7055

weight sum 21 62

precision 0.0692 0.0692

#### GENE1447X

mean 0.0564 0.1355

std. dev. 0.8917 0.6861

weight sum 23 72

precision 0.0617 0.0617

#### GENE1446X

mean 0.0882 0.0142

std. dev. 0.7724 0.6683

weight sum 22 65

precision 0.0441 0.0441

#### GENE1445X

mean -0.0065 -0.0017

std. dev. 0.4034 0.3813

weight sum 23 71

precision 0.0298 0.0298

#### GENE199X

mean -0.1317 -0.0091

std. dev. 0.8632 0.5613

weight sum 21 65

precision 0.0659 0.0659

#### GENE198X

mean -0.0879 0.0323

std. dev. 0.5756 0.4696

weight sum 21 65

precision 0.0419 0.0419

#### GENE201X

mean 0.0755 0.0091

std. dev. 0.434 0.6339

weight sum 21 66

precision 0.0546 0.0546

#### GENE1467X

mean -0.0313 -0.0163

std. dev. 0.3639 0.3944

weight sum 23 68

precision 0.03 0.03

#### GENE1468X

mean -0.1639 0.0436

std. dev. 0.3667 0.627

weight sum 21 63

precision 0.0465 0.0465

#### GENE1469X

mean 0.0061 0.0148

std. dev. 0.2699 0.4212

weight sum 21 66

precision 0.0425 0.0425

#### GENE1284X

mean -0.0282 -0.0099

std. dev. 0.6746 0.6369

weight sum 23 70



precision 0.0463 0.0463

#### GENE997X

mean 0.2481 0.0916

std. dev. 0.7558 0.523

weight sum 23 69

precision 0.0439 0.0439

#### GENE2602X

mean 0.0023 -0.0045

std. dev. 0.5992 0.5442

weight sum 22 68

precision 0.0509 0.0509

#### GENE1475X

mean -0.108 0.2208

std. dev. 0.692 0.8665

weight sum 21 58

precision 0.0732 0.0732

#### GENE2605X

mean -0.0367 0.116

std. dev. 0.2305 0.3535

weight sum 21 68

precision 0.0297 0.0297

#### GENE2604X

mean -0.0637 0.1053

std. dev. 0.2549 0.3791

weight sum 23 69

precision 0.0266 0.0266

#### GENE2603X

mean -0.0252 0.0728

std. dev. 0.3661 0.4513

weight sum 22 68

precision 0.0346 0.0346

#### GENE1272X

mean 0.0638 0.0434

std. dev. 0.273 0.3518

weight sum 22 72

precision 0.0287 0.0287

#### GENE1271X

mean 0.0865 -0

std. dev. 0.3818 0.4753

weight sum 21 62

precision 0.0356 0.0356

#### GENE1092X

mean 0.0169 0.0182

std. dev. 0.4141 0.4825

weight sum 19 58

precision 0.0459 0.0459

#### GENE55X

mean -0.0216 -0.0429

std. dev. 0.3709 0.3126

weight sum 23 72

precision 0.0382 0.0382

#### GENE56X

mean 0.1296 -0.0012

std. dev. 0.4865 0.338

weight sum 23 69

precision 0.042 0.042

#### GENE57X

mean 0.0327 -0.0529

std. dev. 0.4411 0.3701

weight sum 23 71

precision 0.0395 0.0395

#### GENE1921X

mean -0.0068 -0.0733

std. dev. 0.3586 0.5823

weight sum 20 57

precision 0.0454 0.0454

#### GENE13X

mean 0.1474 -0.0772

std. dev. 0.2686 0.5149

weight sum 22 63

precision 0.0377 0.0377

#### GENE8X

mean -0.0526 0.024

std. dev. 0.5473 0.5222

weight sum 18 61

precision 0.0431 0.0431

#### GENE9X

mean -0.0514 -0.0287

std. dev. 0.7494 0.7884

weight sum 23 65

precision 0.0454 0.0454

#### GENE10X

mean -0.0748 0.045

std. dev. 0.9064 0.6377

weight sum 21 64

precision 0.0654 0.0654

#### GENE11X

mean -0.3047 0.078

std. dev. 0.558 0.6808

weight sum 21 63

precision 0.078 0.078

#### GENE12X

mean -0.2681 0.0083

std. dev. 0.7872 0.7606

weight sum 21 61

precision 0.0722 0.0722

#### GENE2606X

mean -0.1646 0.0935

std. dev. 0.2852 0.4442

weight sum 23 69

precision 0.0398 0.0398

#### GENE1032X

mean -0.0623 0.0367

std. dev. 0.2551 0.3758

weight sum 23 70

precision 0.0227 0.0227

#### GENE3053X

mean -0.0887 0.0892

std. dev. 0.3371 0.3883

weight sum 19 60

precision 0.0331 0.0331

#### GENE1031X

mean 0.0484 0.0578

std. dev. 0.4242 0.5315

weight sum 17 61

precision 0.0588 0.0588

#### GENE2625X

mean -0.0533 -0.0506

std. dev. 0.3852 0.3698

weight sum 22 66

precision 0.0356 0.0356

#### GENE1280X

mean 0.0229 0.0598

std. dev. 0.7039 0.7405

weight sum 23 72

precision 0.0478 0.0478

#### GENE3017X

mean 0.049 -0.0159

std. dev. 0.3716 0.5032

weight sum 23 71

precision 0.0389 0.0389

#### GENE3016X

mean 0.0087 -0.0288

std. dev. 0.5409 0.5374

weight sum 20 62

precision 0.0435 0.0435

#### GENE3057X

mean -0.0615 -0.0183

std. dev. 0.4236 0.5492

weight sum 20 65

precision 0.0439 0.0439

#### GENE3056X

mean -0.1953 -0.023

std. dev. 0.7599 0.66

weight sum 20 65

precision 0.0482 0.0482

#### GENE3055X

mean -0.3199 -0.0141

std. dev. 0.849 0.693

weight sum 20 58

precision 0.0547 0.0547

#### GENE3054X

mean -0.2604 0.0681

std. dev. 0.764 0.6199

weight sum 22 67

precision 0.0507 0.0507

#### GENE2479X

mean -0.3182 0.0265

std. dev. 0.3544 0.4366

weight sum 21 71



precision 0.0343 0.0343

#### GENE3063X

mean -0.0949 -0.01

std. dev. 0.6541 0.4096

weight sum 23 68

precision 0.0485 0.0485

#### GENE3062X

mean -0.0318 0.0646

std. dev. 0.6041 0.4792

weight sum 23 70

precision 0.0457 0.0457

#### GENE3061X

mean -0.3976 0.0353

std. dev. 0.8372 0.5257

weight sum 20 58

precision 0.0621 0.0621

#### GENE3060X

mean -0.2385 0.1076

std. dev. 0.5057 0.5954

weight sum 22 69

precision 0.041 0.041

#### GENE3059X

mean 0.0286 0.0582

std. dev. 0.4154 0.4543

weight sum 23 72

precision 0.0346 0.0346

#### GENE3058X

mean -0.0769 0.0551

std. dev. 0.4134 0.4096

weight sum 22 67

precision 0.0338 0.0338

#### GENE1069X

mean -0.064 0.0153

std. dev. 0.2963 0.4283

weight sum 23 72

precision 0.0368 0.0368

#### GENE1070X

mean -0.0832 0.087

std. dev. 0.4516 0.4704

weight sum 23 65

precision 0.0456 0.0456

#### GENE3076X

mean 0.0947 -0.0347

std. dev. 0.2666 0.4156

weight sum 23 72

precision 0.0357 0.0357

#### GENE3098X

mean 0.0878 -0.0383

std. dev. 0.4029 0.5109

weight sum 23 71

precision 0.0367 0.0367

#### GENE3097X

mean -0.0318 0.0273

std. dev. 0.4159 0.4889

weight sum 23 72

precision 0.0385 0.0385

#### GENE3032X

mean 0.0073 0.0352

std. dev. 0.3748 0.4922

weight sum 23 72

precision 0.0334 0.0334

#### GENE3033X

mean 0.0356 0.07

std. dev. 0.3499 0.4055

weight sum 23 72

precision 0.0256 0.0256

#### GENE3034X

mean -0.0073 0.1034

std. dev. 0.3001 0.4005

weight sum 22 71

precision 0.0319 0.0319

#### GENE3035X

mean -0.0164 0.0049

std. dev. 0.3903 0.4256

weight sum 23 69

precision 0.0419 0.0419

#### GENE3036X

mean -0.0155 0.0071

std. dev. 0.372 0.4819

weight sum 20 69

precision 0.0444 0.0444

#### GENE3037X

mean -0.0327 0.0174

std. dev. 0.4098 0.46

weight sum 19 66

precision 0.0477 0.0477

#### GENE3038X

mean -0.1821 0.0039

std. dev. 0.5356 0.7516

weight sum 23 70

precision 0.0544 0.0544

#### GENE2484X

mean -0.2372 0.2048

std. dev. 0.2967 0.5001

weight sum 23 62

precision 0.0458 0.0458

#### GENE2483X

mean -0.3666 0.1837

std. dev. 0.3666 0.5877

weight sum 23 71

precision 0.0415 0.0415

#### GENE2482X

mean -0.2248 0.0833

std. dev. 0.4886 0.4325

weight sum 23 71

precision 0.0438 0.0438

#### GENE2635X

mean 0.0337 0.0022

std. dev. 0.3273 0.4471

weight sum 20 67

precision 0.0482 0.0482

#### GENE2636X

mean -0.0034 0.007

std. dev. 0.5345 0.5614

weight sum 23 72

precision 0.0388 0.0388

#### GENE223X

mean 0.0088 0.0713

std. dev. 0.6311 0.5122

weight sum 23 72

precision 0.0404 0.0404

#### GENE2639X

mean 0.0219 0.105

std. dev. 0.3423 0.7109

weight sum 21 67

precision 0.0658 0.0658

#### GENE2946X

mean -0.1516 0.1536

std. dev. 0.4496 0.5957

weight sum 19 63

precision 0.045 0.045

#### GENE2947X

mean -0.2107 0.0837

std. dev. 0.3782 0.6141

weight sum 21 68

precision 0.0527 0.0527

#### GENE2948X

mean -0.2698 0.1361

std. dev. 0.4715 0.6355

weight sum 18 64

precision 0.0528 0.0528

#### GENE2949X

mean -0.0099 0.0477

std. dev. 0.4881 0.5869

weight sum 20 60

precision 0.0494 0.0494

#### GENE2994X

mean -0.0045 0.0529

std. dev. 0.2944 0.4022

weight sum 20 70

precision 0.0298 0.0298

#### GENE2932X

mean -0.379 0.0768

std. dev. 0.7875 0.6783

weight sum 19 60

precision 0.0518 0.0518

#### GENE2933X

mean 0.0497 0.0757

std. dev. 1.017 0.5672

weight sum 22 66



precision 0.0781 0.0781

#### GENE2995X

mean -0.0796 0.1387

std. dev. 0.2225 0.416

weight sum 22 68

precision 0.0278 0.0278

#### GENE2941X

mean -0.0351 0.0887

std. dev. 0.4771 0.6006

weight sum 23 71

precision 0.0404 0.0404

#### GENE2672X

mean -0.1146 0.1329

std. dev. 0.3202 0.3826

weight sum 23 71

precision 0.0325 0.0325

#### GENE2673X

mean 0.0274 0.1123

std. dev. 0.4497 0.4532

weight sum 23 72

precision 0.0287 0.0287

#### GENE2674X

mean 0.0045 0.1298

std. dev. 0.3898 0.5049

weight sum 23 71

precision 0.0348 0.0348

#### GENE2675X

mean -0.2488 0.1637

std. dev. 0.2838 0.5771

weight sum 23 71

precision 0.0362 0.0362

#### GENE2676X

mean -0.1545 0.3396

std. dev. 0.3465 0.6411

weight sum 23 72

precision 0.0418 0.0418

#### GENE2677X

mean -0.1821 0.2609

std. dev. 0.3749 0.6004

weight sum 23 72

precision 0.0364 0.0364

#### GENE2678X

mean -0.1641 0.2064

std. dev. 0.354 0.6458

weight sum 23 71

precision 0.037 0.037

#### GENE2679X

mean -0.0955 0.1738

std. dev. 0.2897 0.4781

weight sum 23 72

precision 0.0414 0.0414

#### GENE2680X

mean -0.1508 0.1735

std. dev. 0.3764 0.4124

weight sum 22 70

precision 0.0304 0.0304

#### GENE2480X

mean -0.3674 0.1215

std. dev. 0.5334 0.5854

weight sum 21 70

precision 0.0441 0.0441

#### GENE2481X

mean -0.3269 0.1044

std. dev. 0.4513 0.552

weight sum 23 72

precision 0.034 0.034

#### GENE2920X

mean -0.1792 0.102

std. dev. 0.4137 0.4291

weight sum 23 64

precision 0.0349 0.0349

#### GENE2921X

mean -0.1491 0.0598

std. dev. 0.463 0.5335

weight sum 21 69

precision 0.0497 0.0497

#### GENE1956X

mean -0.0059 0.1309

std. dev. 0.4557 0.5945

weight sum 23 68

precision 0.0454 0.0454

#### GENE2661X

mean -0.0585 0.0555

std. dev. 0.4785 0.5435

weight sum 18 64

precision 0.0439 0.0439

#### GENE2931X

mean -0.1351 0.0161

std. dev. 0.519 0.4664

weight sum 21 63

precision 0.0423 0.0423

#### GENE2930X

mean -0.0575 0.0303

std. dev. 0.5998 0.5056

weight sum 20 66

precision 0.05 0.05

#### GENE2937X

mean -0.0612 0.065

std. dev. 0.4573 0.5986

weight sum 23 68

precision 0.0486 0.0486

#### GENE1958X

mean -0.2731 0.0504

std. dev. 0.2838 0.5603

weight sum 20 61

precision 0.0405 0.0405

#### GENE2926X

mean -0.2793 0.0258

std. dev. 0.3715 0.4075

weight sum 22 69

precision 0.0336 0.0336

#### GENE1948X

mean -0.2304 0.019

std. dev. 0.4037 0.4606

weight sum 23 72

precision 0.0333 0.0333

#### GENE1949X

mean -0.2491 0.0713

std. dev. 0.3358 0.4111

weight sum 23 71

precision 0.0418 0.0418

#### GENE2938X

mean -0.1947 0.0916

std. dev. 0.4829 0.4257

weight sum 20 69

precision 0.0319 0.0319

#### GENE2939X

mean -0.0497 0.0163

std. dev. 0.3944 0.3557

weight sum 22 69

precision 0.0295 0.0295

#### GENE2919X

mean -0.1229 0.0826

std. dev. 0.3845 0.4594

weight sum 23 72

precision 0.0367 0.0367

#### GENE2720X

mean -0.201 0.048

std. dev. 0.3597 0.3834

weight sum 22 71

precision 0.0275 0.0275

#### GENE2721X

mean -0.0674 0.1135

std. dev. 0.3934 0.5185

weight sum 23 70

precision 0.0378 0.0378

#### GENE2724X

mean -0.3128 0.0867

std. dev. 0.6586 0.5511

weight sum 22 68

precision 0.0492 0.0492

#### GENE2644X

mean 0.099 0.0572

std. dev. 0.5758 0.4177

weight sum 19 65

precision 0.047 0.047

#### GENE321X

mean -0.0833 0.1303

std. dev. 0.5008 0.5966

weight sum 22 71



precision 0.0458 0.0458

#### GENE320X

mean 0.0382 0.0615

std. dev. 0.3367 0.4478

weight sum 23 72

precision 0.0338 0.0338

#### GENE254X

mean 0.1645 -0.0948

std. dev. 0.4312 0.5479

weight sum 23 72

precision 0.0435 0.0435

#### GENE255X

mean 0.1712 -0.0394

std. dev. 0.4715 0.5337

weight sum 23 72

precision 0.0368 0.0368

#### GENE256X

mean 0.1332 -0.0431

std. dev. 0.496 0.4491

weight sum 18 61

precision 0.047 0.047

#### GENE1301X

mean 0.1935 -0.0853

std. dev. 0.474 0.4836

weight sum 23 68

precision 0.0436 0.0436

#### GENE258X

mean 0.2567 -0.0169

std. dev. 0.4497 0.4691

weight sum 23 72

precision 0.0304 0.0304

#### GENE257X

mean 0.1217 -0.0711

std. dev. 0.4024 0.4

weight sum 23 67

precision 0.0322 0.0322

#### GENE301X

mean 0.2518 -0.041

std. dev. 0.4012 0.4424

weight sum 23 71

precision 0.0343 0.0343

#### GENE300X

mean 0.1551 -0.0471

std. dev. 0.4024 0.4426

weight sum 23 72

precision 0.0346 0.0346

#### GENE281X

mean 0.2122 -0.0171

std. dev. 0.3654 0.5036

weight sum 23 68

precision 0.04 0.04

#### GENE298X

mean 0.0541 0.0759

std. dev. 0.5192 0.5276

weight sum 23 71

precision 0.0461 0.0461

#### GENE299X

mean 0.082 0.1103

std. dev. 0.4706 0.4576

weight sum 18 60

precision 0.0378 0.0378

#### GENE2659X

mean 0.0339 -0.0324

std. dev. 0.4618 0.4945

weight sum 22 69

precision 0.0339 0.0339

#### GENE302X

mean 0.0477 0.0531

std. dev. 0.6173 0.6128

weight sum 23 72

precision 0.0439 0.0439

#### GENE2658X

mean -0.0212 -0.0017

std. dev. 0.5675 0.5984

weight sum 23 71

precision 0.0407 0.0407

#### GENE282X

mean 0.0852 -0.0036

std. dev. 0.5504 0.5783

weight sum 23 63

precision 0.0456 0.0456

#### GENE318X

mean 0.1081 0.0373

std. dev. 0.3469 0.4663

weight sum 21 72

precision 0.0463 0.0463

#### GENE2927X

mean -0.1053 0.0933

std. dev. 0.4 0.3836

weight sum 23 71

precision 0.0356 0.0356

#### GENE2908X

mean -0.1753 0.033

std. dev. 0.3161 0.382

weight sum 22 64

precision 0.0364 0.0364

#### GENE2909X

mean -0.0703 0.0274

std. dev. 0.2394 0.3963

weight sum 19 60

precision 0.0311 0.0311

#### GENE2925X

mean -0.0778 0.056

std. dev. 0.3245 0.4388

weight sum 23 71

precision 0.0308 0.0308

#### GENE2904X

mean -0.1487 0.0509

std. dev. 0.4866 0.4502

weight sum 20 66

precision 0.048 0.048

#### GENE2900X

mean -0.1126 0.0566

std. dev. 0.2758 0.3517

weight sum 22 68

precision 0.0269 0.0269

#### GENE2693X

mean -1.026 0.4985

std. dev. 1.033 1.4971

weight sum 16 64

precision 0.1156 0.1156

#### GENE2662X

mean 0.0927 0.0454

std. dev. 0.4677 0.7281

weight sum 23 71

precision 0.0454 0.0454

#### GENE2663X

mean 0.0906 0.1081

std. dev. 0.4221 0.868

weight sum 21 64

precision 0.0577 0.0577

#### GENE2664X

mean -0.0985 -0.0127

std. dev. 0.4091 0.5741

weight sum 23 66

precision 0.0365 0.0365

#### GENE2665X

mean -0.1459 0.1648

std. dev. 0.4788 0.708

weight sum 22 68

precision 0.0428 0.0428

#### GENE2666X

mean -0.0584 0.0372

std. dev. 0.3875 0.4967

weight sum 21 71

precision 0.0315 0.0315

#### GENE2667X

mean -0.114 0.0662

std. dev. 0.5134 0.6749

weight sum 22 71

precision 0.0353 0.0353

#### GENE2668X

mean -0.2502 0.4355

std. dev. 0.3957 1.0488

weight sum 23 72

precision 0.0538 0.0538

#### GENE2669X

mean 0.018 0.1844

std. dev. 0.2859 0.6068

weight sum 23 71



precision 0.0414 0.0414

#### GENE2670X

mean 0.0372 0.149

std. dev. 0.3464 0.4978

weight sum 23 72

precision 0.0357 0.0357

#### GENE2695X

mean -0.0699 0.0557

std. dev. 0.707 0.6123

weight sum 22 61

precision 0.0466 0.0466

#### GENE2696X

mean 0.0885 0.017

std. dev. 0.6634 0.5723

weight sum 20 68

precision 0.0385 0.0385

#### GENE2697X

mean -0.0074 0.0436

std. dev. 0.5766 0.5618

weight sum 21 67

precision 0.039 0.039

#### GENE2698X

mean -0.1943 0.1294

std. dev. 0.5796 0.5874

weight sum 22 70

precision 0.0423 0.0423

#### GENE2699X

mean -0.0798 0.2293

std. dev. 0.6191 0.8182

weight sum 23 72

precision 0.0612 0.0612

#### GENE2700X

mean -0.1793 0.1364

std. dev. 0.4089 0.7008

weight sum 22 68

precision 0.073 0.073

#### GENE2701X

mean -0.3188 0.1848

std. dev. 0.5668 0.826

weight sum 23 72

precision 0.0679 0.0679

#### GENE2702X

mean -0.2901 0.1807

std. dev. 0.4855 0.6339

weight sum 21 70

precision 0.0586 0.0586

#### GENE2703X

mean 0.0455 0.0477

std. dev. 0.5054 0.7154

weight sum 23 72

precision 0.0582 0.0582

#### GENE2704X

mean 0.0566 0.0368

std. dev. 0.5051 0.7653

weight sum 23 69

precision 0.062 0.062

#### GENE2705X

mean -0.2056 0.0076

std. dev. 0.5393 0.5116

weight sum 23 72

precision 0.0422 0.0422

#### GENE2286X

mean -0.0929 0.1958

std. dev. 1.2862 2.0316

weight sum 20 61

precision 0.1327 0.1327

#### GENE2285X

mean -0.0301 0.2489

std. dev. 1.2977 1.9903

weight sum 23 71

precision 0.1155 0.1155

#### GENE2284X

mean -0.2091 -0.0205

std. dev. 0.4655 0.6713

weight sum 23 67

precision 0.0528 0.0528

#### GENE2907X

mean -0.1041 0.0696

std. dev. 0.4024 0.5371

weight sum 21 68

precision 0.052 0.052

#### GENE2906X

mean -0.2499 0.1576

std. dev. 0.4674 0.6592

weight sum 20 66

precision 0.0581 0.0581

#### GENE2723X

mean -0.2114 0.0808

std. dev. 0.4824 0.5233

weight sum 21 62

precision 0.0379 0.0379

#### GENE2959X

mean -0.033 0.0299

std. dev. 0.5838 0.5109

weight sum 19 60

precision 0.0448 0.0448

#### GENE2960X

mean -0.0876 0.0437

std. dev. 0.4204 0.4044

weight sum 23 70

precision 0.036 0.036

#### GENE2957X

mean -0.1733 0.0275

std. dev. 0.3281 0.3812

weight sum 20 66

precision 0.0267 0.0267

#### GENE2728X

mean -0.191 0.0199

std. dev. 0.4694 0.5067

weight sum 21 64

precision 0.0397 0.0397

#### GENE1961X

mean -0.1259 0.1508

std. dev. 0.3839 0.3922

weight sum 19 62

precision 0.0363 0.0363

#### GENE2711X

mean -0.232 0.0962

std. dev. 0.7559 0.714

weight sum 20 65

precision 0.0672 0.0672

#### GENE2710X

mean -0.089 0.1276

std. dev. 0.5996 0.5988

weight sum 21 59

precision 0.0519 0.0519

#### GENE2709X

mean 0.0942 0.0284

std. dev. 0.6464 0.523

weight sum 20 62

precision 0.0608 0.0608

#### GENE2956X

mean -0.0506 0.0478

std. dev. 0.3971 0.4185

weight sum 21 66

precision 0.0394 0.0394

#### GENE2903X

mean -0.1409 0.0388

std. dev. 0.3903 0.3334

weight sum 21 70

precision 0.0271 0.0271

#### GENE2687X

mean -0.2146 0.0618

std. dev. 0.4648 0.4207

weight sum 23 69

precision 0.0336 0.0336

#### GENE2685X

mean 0.048 0.0024

std. dev. 0.7842 0.7065

weight sum 21 62

precision 0.0504 0.0504

#### GENE2912X

mean -0.0434 0.2366

std. dev. 0.4055 0.6325

weight sum 22 69

precision 0.053 0.053

#### GENE2924X

mean 0.0653 0.07

std. dev. 0.4656 0.57

weight sum 23 65



precision 0.0442 0.0442

#### GENE242X

mean 0.1212 -0.0199

std. dev. 0.3828 0.6053

weight sum 22 67

precision 0.0667 0.0667

#### GENE243X

mean -0.0723 0.2543

std. dev. 0.7182 0.8194

weight sum 21 66

precision 0.0843 0.0843

#### GENE244X

mean -0.0283 0.1407

std. dev. 0.4547 0.5969

weight sum 20 64

precision 0.063 0.063

#### GENE245X

mean -0.0155 0.1055

std. dev. 0.3728 0.4916

weight sum 22 70

precision 0.0486 0.0486

#### GENE277X

mean 0.1218 -0.0066

std. dev. 0.5743 0.5993

weight sum 19 65

precision 0.0392 0.0392

#### GENE1239X

mean 0.6459 -0.0156

std. dev. 0.9163 1.1164

weight sum 22 63

precision 0.0756 0.0756

#### GENE2892X

mean 0.2718 0.2633

std. dev. 0.973 1.1473

weight sum 21 62

precision 0.0892 0.0892

#### GENE2893X

mean 0.1312 0.201

std. dev. 0.5933 0.8451

weight sum 23 62

precision 0.0642 0.0642

#### GENE2894X

mean 0.2509 0.1401

std. dev. 0.4864 0.8644

weight sum 23 72

precision 0.0634 0.0634

#### GENE2891X

mean -0.0757 0.0503

std. dev. 0.3398 0.5435

weight sum 23 70

precision 0.0414 0.0414

#### GENE2890X

mean -0.2229 0.1774

std. dev. 0.8031 1.1239

weight sum 23 71

precision 0.0869 0.0869

#### GENE2713X

mean -0.2937 0.289

std. dev. 0.3 0.5234

weight sum 22 69

precision 0.0349 0.0349

#### GENE2714X

mean -0.0791 0.2198

std. dev. 0.1645 0.4689

weight sum 22 71

precision 0.0335 0.0335

#### GENE2715X

mean -0.048 0.1558

std. dev. 0.2567 0.4381

weight sum 23 72

precision 0.0335 0.0335

#### GENE2716X

mean -0.1132 0.1374

std. dev. 0.3086 0.4639

weight sum 23 68

precision 0.0357 0.0357

#### GENE2735X

mean -0.3368 0.141

std. dev. 0.5183 0.5673

weight sum 21 72

precision 0.0615 0.0615

#### GENE2726X

mean -0.2734 -0.0935

std. dev. 0.565 0.5694

weight sum 18 61

precision 0.0523 0.0523

#### GENE2736X

mean -0.3442 0.1363

std. dev. 0.5923 0.4984

weight sum 22 66

precision 0.0676 0.0676

#### GENE2737X

mean -0.5716 0.0643

std. dev. 0.8493 0.5647

weight sum 20 68

precision 0.0728 0.0728

#### GENE2738X

mean -0.1743 -0.0199

std. dev. 0.5564 0.44

weight sum 21 66

precision 0.0469 0.0469

#### GENE2727X

mean -0.2058 0.0795

std. dev. 0.5269 0.3931

weight sum 23 71

precision 0.0415 0.0415

#### GENE2717X

mean -0.1574 0.1344

std. dev. 0.4954 0.6963

weight sum 19 64

precision 0.0525 0.0525

#### GENE2718X

mean -0.2331 0.0626

std. dev. 0.4623 0.4785

weight sum 18 67

precision 0.0356 0.0356

#### GENE2719X

mean -0.0262 0.1575

std. dev. 0.854 0.7623

weight sum 21 68

precision 0.0612 0.0612

#### GENE2739X

mean -0.3245 0.14

std. dev. 0.6056 0.709

weight sum 23 72

precision 0.0545 0.0545

#### GENE2740X

mean -0.3995 0.1514

std. dev. 0.5314 0.6979

weight sum 23 72

precision 0.0589 0.0589

#### GENE2741X

mean -0.1721 0.0187

std. dev. 0.4199 0.443

weight sum 23 69

precision 0.0293 0.0293

#### GENE2873X

mean -0.031 -0.0406

std. dev. 0.4456 0.5702

weight sum 22 71

precision 0.0524 0.0524

#### GENE2885X

mean -0.2993 0.131

std. dev. 0.7797 0.6514

weight sum 23 71

precision 0.0514 0.0514

#### GENE2886X

mean -0.2041 0.1215

std. dev. 0.5359 0.5217

weight sum 22 72

precision 0.0468 0.0468

#### GENE2887X

mean -0.6024 0.0986

std. dev. 1.1677 0.9688

weight sum 23 72

precision 0.0689 0.0689

#### GENE2888X

mean -0.2497 0.0879

std. dev. 0.5114 0.4717

weight sum 23 72



precision 0.0295 0.0295

#### GENE2889X

mean -0.2144 0.0894

std. dev. 0.5297 0.531

weight sum 18 62

precision 0.0351 0.0351

#### GENE2725X

mean -0.1784 0.1468

std. dev. 0.5584 0.6462

weight sum 23 70

precision 0.0414 0.0414

#### GENE2123X

mean -0.2352 0.1312

std. dev. 0.8495 0.7786

weight sum 21 71

precision 0.0514 0.0514

#### GENE2878X

mean -0.1523 0.1011

std. dev. 0.6422 0.7628

weight sum 23 66

precision 0.048 0.048

#### GENE2877X

mean -0.3954 0.0592

std. dev. 0.5234 0.8644

weight sum 22 69

precision 0.0592 0.0592

#### GENE2874X

mean 0.0044 0.0498

std. dev. 0.5673 0.6223

weight sum 16 63

precision 0.0697 0.0697

#### GENE2871X

mean -0.2461 0.1291

std. dev. 0.3402 0.5335

weight sum 23 72

precision 0.0505 0.0505

#### GENE2875X

mean -0.2588 0.039

std. dev. 0.5993 0.593

weight sum 23 71

precision 0.0469 0.0469

#### GENE2882X

mean -0.1226 0.1016

std. dev. 0.5471 0.4498

weight sum 23 72

precision 0.0336 0.0336

#### GENE2881X

mean -0.2308 0.0867

std. dev. 0.5177 0.5487

weight sum 23 72

precision 0.0425 0.0425

#### GENE2880X

mean -0.203 -0.0092

std. dev. 0.3955 0.4932

weight sum 23 72

precision 0.0331 0.0331

#### GENE2744X

mean -0.3065 0.0522

std. dev. 0.4565 0.5124

weight sum 20 68

precision 0.0386 0.0386

#### GENE2743X

mean -0.5073 0.1181

std. dev. 0.6495 0.7316

weight sum 19 68

precision 0.0518 0.0518

#### GENE2751X

mean -0.1424 0.1221

std. dev. 0.5859 0.6196

weight sum 23 72

precision 0.0449 0.0449

#### GENE2752X

mean -0.113 0.0389

std. dev. 0.6387 0.6609

weight sum 19 69

precision 0.0537 0.0537

#### GENE303X

mean 0.0957 -0.0141

std. dev. 0.2923 0.4618

weight sum 23 72

precision 0.0329 0.0329

#### GENE288X

mean 0.1543 -0.0442

std. dev. 0.4678 0.5393

weight sum 20 69

precision 0.0363 0.0363

#### GENE289X

mean 0.0456 0.0534

std. dev. 0.5274 0.5658

weight sum 23 70

precision 0.0328 0.0328

#### GENE290X

mean 0.0754 -0.0067

std. dev. 0.543 0.6316

weight sum 21 66

precision 0.044 0.044

#### GENE291X

mean -0.0113 0.0868

std. dev. 0.4878 0.6549

weight sum 22 68

precision 0.0415 0.0415

#### GENE292X

mean 0.111 0.202

std. dev. 0.4262 0.6421

weight sum 23 72

precision 0.0433 0.0433

#### GENE293X

mean 0.0209 0.053

std. dev. 0.576 0.5098

weight sum 23 71

precision 0.04 0.04

#### GENE294X

mean 0.1221 -0.0368

std. dev. 0.65 0.6194

weight sum 23 68

precision 0.0432 0.0432

#### GENE295X

mean 0.0195 0.0221

std. dev. 0.3047 0.5762

weight sum 23 71

precision 0.0449 0.0449

#### GENE296X

mean 0.0377 -0.0316

std. dev. 0.4547 0.6637

weight sum 23 70

precision 0.0434 0.0434

#### GENE297X

mean 0.0111 -0.0119

std. dev. 0.427 0.5175

weight sum 23 71

precision 0.0366 0.0366

#### GENE2857X

mean 0.0597 0.0099

std. dev. 0.5313 0.6173

weight sum 21 68

precision 0.0448 0.0448

#### GENE2858X

mean -0.137 0.0592

std. dev. 0.5834 0.6799

weight sum 23 70

precision 0.0399 0.0399

#### GENE2859X

mean -0.0953 0.0875

std. dev. 0.6482 0.6895

weight sum 23 71

precision 0.0522 0.0522

#### GENE2860X

mean 0.0832 -0.0177

std. dev. 0.4175 0.6056

weight sum 23 72

precision 0.0491 0.0491

#### GENE2861X

mean -0.0147 0.0435

std. dev. 0.362 0.5598

weight sum 22 63

precision 0.0403 0.0403

#### GENE2862X

mean -0.1213 0.093

std. dev. 0.526 0.6811

weight sum 20 66



precision 0.0379 0.0379

#### GENE2879X

mean 0.0093 0.0844

std. dev. 0.5136 0.5738

weight sum 21 67

precision 0.039 0.039

#### GENE3005X

mean -0.0132 0.0901

std. dev. 0.7402 0.6155

weight sum 22 66

precision 0.0416 0.0416

#### GENE3004X

mean -0.1317 0.059

std. dev. 0.546 0.6712

weight sum 20 59

precision 0.0497 0.0497

#### GENE3003X

mean -0.1233 -0.0466

std. dev. 0.7002 0.6692

weight sum 21 64

precision 0.0439 0.0439

#### GENE3002X

mean -0.0113 -0.0564

std. dev. 0.3305 0.5694

weight sum 20 68

precision 0.0376 0.0376

#### GENE314X

mean -0.0079 0.0395

std. dev. 0.468 0.7346

weight sum 23 71

precision 0.0609 0.0609

#### GENE2869X

mean -0.2759 0.2283

std. dev. 0.4715 0.6879

weight sum 23 69

precision 0.0457 0.0457

#### GENE2868X

mean -0.3477 0.263

std. dev. 0.5392 0.8297

weight sum 23 70

precision 0.0494 0.0494

#### GENE2867X

mean -0.1769 0.1709

std. dev. 0.4126 0.629

weight sum 23 72

precision 0.0509 0.0509

#### GENE2863X

mean -0.0197 -0.0267

std. dev. 0.4596 0.6531

weight sum 23 65

precision 0.0378 0.0378

#### GENE2742X

mean -0.1296 0.0193

std. dev. 0.3856 0.5954

weight sum 23 68

precision 0.0505 0.0505

#### GENE2748X

mean -0.0865 0.0574

std. dev. 0.5354 0.4649

weight sum 21 60

precision 0.0478 0.0478

#### GENE2770X

mean -0.4008 0.1972

std. dev. 0.7119 0.9661

weight sum 20 66

precision 0.0794 0.0794

#### GENE2771X

mean -0.2784 0.0221

std. dev. 0.4169 0.4852

weight sum 21 62

precision 0.0457 0.0457

#### GENE2769X

mean -0.1009 0.1683

std. dev. 0.4176 0.5536

weight sum 22 67

precision 0.0453 0.0453

#### GENE2852X

mean -0.1355 -0.0407

std. dev. 0.5109 0.5584

weight sum 22 66

precision 0.0497 0.0497

#### GENE2849X

mean -0.2541 0.0047

std. dev. 0.5982 0.5943

weight sum 23 70

precision 0.0551 0.0551

#### GENE2850X

mean -0.2148 0.066

std. dev. 0.5656 0.6406

weight sum 22 66

precision 0.0622 0.0622

#### GENE2851X

mean -0.4359 0.046

std. dev. 0.7686 0.6665

weight sum 21 64

precision 0.0817 0.0817

#### GENE2847X

mean -0.2584 0.1586

std. dev. 0.5037 0.6565

weight sum 23 72

precision 0.0468 0.0468

#### GENE2848X

mean -0.186 0.1175

std. dev. 0.6001 0.5995

weight sum 23 72

precision 0.0486 0.0486

#### GENE2846X

mean -0.1711 0.1033

std. dev. 0.5002 0.5854

weight sum 23 71

precision 0.0492 0.0492

#### GENE2809X

mean -0.301 0.1586

std. dev. 0.4829 0.6094

weight sum 23 72

precision 0.0517 0.0517

#### GENE2808X

mean -0.2602 0.2535

std. dev. 0.4961 0.8896

weight sum 23 70

precision 0.0516 0.0516

#### GENE2845X

mean -0.1752 0.0477

std. dev. 0.6375 0.5482

weight sum 22 70

precision 0.0642 0.0642

#### GENE2816X

mean -0.3534 0.1532

std. dev. 0.7525 0.7887

weight sum 23 71

precision 0.0655 0.0655

#### GENE2844X

mean -0.3232 0.1554

std. dev. 0.7612 0.6944

weight sum 22 70

precision 0.0697 0.0697

#### GENE2813X

mean -0.1781 0.1564

std. dev. 0.4505 0.5834

weight sum 23 70

precision 0.0372 0.0372

#### GENE2814X

mean -0.2156 0.0451

std. dev. 0.707 0.7383

weight sum 23 69

precision 0.0636 0.0636

#### GENE2840X

mean -0.4727 0.0316

std. dev. 0.9942 0.8566

weight sum 21 64

precision 0.0919 0.0919

#### GENE2838X

mean -0.0884 0.0886

std. dev. 0.6059 0.6756

weight sum 20 62

precision 0.0478 0.0478

#### GENE2839X

mean -0.1144 0.0261

std. dev. 0.6249 0.6554

weight sum 23 69



precision 0.0461 0.0461

#### GENE2828X

mean -0.1268 0.173

std. dev. 0.5651 0.7764

weight sum 23 72

precision 0.053 0.053

#### GENE2826X

mean -0.1212 0.0074

std. dev. 0.5037 0.6015

weight sum 23 71

precision 0.0526 0.0526

#### GENE2829X

mean -0.3624 0.1768

std. dev. 0.6597 0.7864

weight sum 21 72

precision 0.064 0.064

#### GENE2822X

mean -0.3583 0.3596

std. dev. 0.8563 1.0208

weight sum 23 72

precision 0.0649 0.0649

#### GENE2823X

mean -0.3792 0.2015

std. dev. 0.5855 0.7922

weight sum 21 67

precision 0.0758 0.0758

#### GENE2821X

mean -0.1376 0.1383

std. dev. 0.6404 0.7973

weight sum 23 68

precision 0.0459 0.0459

#### GENE2824X

mean -0.3113 0.1045

std. dev. 0.4919 0.6919

weight sum 22 70

precision 0.0425 0.0425

#### GENE2825X

mean -0.0847 0.0564

std. dev. 0.7337 0.6262

weight sum 20 64

precision 0.0446 0.0446

#### GENE2820X

mean -0.2603 0.0994

std. dev. 0.4945 0.5955

weight sum 22 72

precision 0.0387 0.0387

#### GENE2819X

mean -0.2267 0.0903

std. dev. 0.5202 0.6959

weight sum 22 71

precision 0.0548 0.0548

#### GENE2827X

mean -0.2111 0.0085

std. dev. 0.4243 0.5471

weight sum 21 65

precision 0.0462 0.0462

#### GENE2817X

mean -0.5004 -0.0051

std. dev. 0.6512 0.6437

weight sum 21 70

precision 0.0508 0.0508

#### GENE2831X

mean -0.5695 0.1327

std. dev. 0.9714 0.8551

weight sum 20 70

precision 0.0749 0.0749

#### GENE2832X

mean -0.5963 0.0803

std. dev. 0.8404 0.9056

weight sum 19 65

precision 0.0636 0.0636

#### GENE2837X

mean -0.3718 0.1502

std. dev. 0.7642 0.8218

weight sum 19 68

precision 0.0508 0.0508

#### GENE2818X

mean -0.587 0

std. dev. 0.9026 0.8357

weight sum 19 70

precision 0.0676 0.0676

#### GENE2830X

mean -0.206 -0.0093

std. dev. 0.5658 0.756

weight sum 17 63

precision 0.0486 0.0486

#### GENE2833X

mean -0.2226 0.1575

std. dev. 0.6529 0.9462

weight sum 17 63

precision 0.0714 0.0714

#### GENE2835X

mean -0.2632 0.0788

std. dev. 0.6073 0.813

weight sum 20 66

precision 0.0619 0.0619

#### GENE2836X

mean -0.3794 0.1742

std. dev. 0.4884 0.6865

weight sum 20 65

precision 0.0566 0.0566

#### GENE2815X

mean -0.1901 0.0542

std. dev. 0.8203 0.7487

weight sum 23 72

precision 0.0583 0.0583

#### GENE2841X

mean -0.1043 0.0274

std. dev. 0.4456 0.5087

weight sum 22 72

precision 0.0353 0.0353

#### GENE2843X

mean -0.1567 -0.0128

std. dev. 0.5364 0.6105

weight sum 20 64

precision 0.0482 0.0482

#### GENE2842X

mean -0.5859 0.0551

std. dev. 0.7349 0.7911

weight sum 21 63

precision 0.0631 0.0631

#### GENE2834X

mean -0.1924 0.1401

std. dev. 0.6911 0.8479

weight sum 23 69

precision 0.0509 0.0509

#### GENE2812X

mean -0.2041 0.1474

std. dev. 0.5274 0.7067

weight sum 23 72

precision 0.0533 0.0533

#### GENE2811X

mean -0.302 0.1443

std. dev. 0.5815 0.6263

weight sum 23 72

precision 0.0565 0.0565

#### GENE2810X

mean -0.2943 0.0833

std. dev. 0.4159 0.4451

weight sum 20 68

precision 0.0315 0.0315

#### GENE2144X

mean -0.4105 0.0533

std. dev. 0.8421 0.8714

weight sum 22 70

precision 0.0583 0.0583

#### GENE2143X

mean -0.1951 -0.0703

std. dev. 0.5391 0.6455

weight sum 23 71

precision 0.039 0.039

#### GENE2803X

mean -0.291 0.1568

std. dev. 0.5632 1.0915

weight sum 19 60

precision 0.0825 0.0825

#### GENE2804X

mean -0.4175 0.2769

std. dev. 0.775 0.8396

weight sum 20 60



precision 0.0888 0.0888

#### GENE2805X

mean -0.2682 0.2311

std. dev. 0.4605 0.7735

weight sum 23 71

precision 0.0551 0.0551

#### GENE2806X

mean -0.2922 0.2222

std. dev. 0.4583 0.8003

weight sum 20 66

precision 0.0573 0.0573

#### GENE2796X

mean -0.0906 0.1626

std. dev. 0.5721 0.7499

weight sum 23 72

precision 0.0563 0.0563

#### GENE2802X

mean -0.2952 0.0583

std. dev. 0.545 0.6313

weight sum 20 65

precision 0.048 0.048

#### GENE2807X

mean -0.3378 0.0434

std. dev. 0.3684 0.6714

weight sum 19 63

precision 0.0455 0.0455

#### GENE2801X

mean -0.2486 0.0235

std. dev. 0.4319 0.5328

weight sum 23 70

precision 0.0289 0.0289

#### GENE2800X

mean -0.1299 0.1

std. dev. 0.5106 0.7795

weight sum 22 68

precision 0.0433 0.0433

#### GENE2799X

mean -0.1905 0.033

std. dev. 0.404 0.5686

weight sum 23 72

precision 0.041 0.041

#### GENE2798X

mean -0.0894 0.0611

std. dev. 0.3908 0.5956

weight sum 23 71

precision 0.0381 0.0381

#### GENE2797X

mean -0.1721 0.0127

std. dev. 0.4676 0.6561

weight sum 21 66

precision 0.0524 0.0524

#### GENE2786X

mean -0.1773 0.0174

std. dev. 0.525 0.6105

weight sum 22 69

precision 0.0482 0.0482

#### GENE2753X

mean -0.1461 0.0916

std. dev. 0.5 0.6654

weight sum 23 70

precision 0.0509 0.0509

#### GENE2781X

mean 0.0441 0.1788

std. dev. 0.5547 0.7196

weight sum 23 70

precision 0.0677 0.0677

#### GENE2780X

mean -0.0304 0.143

std. dev. 0.503 0.7031

weight sum 23 71

precision 0.05 0.05

#### GENE2779X

mean 0.0276 0.173

std. dev. 0.3969 0.6066

weight sum 23 72

precision 0.0489 0.0489

#### GENE2784X

mean -0.1195 0.0603

std. dev. 0.335 0.3248

weight sum 22 69

precision 0.0365 0.0365

#### GENE2792X

mean -0.4961 -0.0145

std. dev. 0.6516 0.63

weight sum 20 72

precision 0.0499 0.0499

#### GENE2791X

mean -0.4448 0.0488

std. dev. 0.5707 0.6858

weight sum 21 71

precision 0.0389 0.0389

#### GENE2790X

mean -0.3006 0.0705

std. dev. 0.5282 0.6015

weight sum 23 71

precision 0.0443 0.0443

#### GENE2795X

mean -0.5758 0.1984

std. dev. 0.6842 0.9417

weight sum 18 62

precision 0.0774 0.0774

#### GENE2794X

mean -0.4929 0.1755

std. dev. 0.6486 0.7525

weight sum 23 72

precision 0.0619 0.0619

#### GENE2793X

mean -0.3729 0.0925

std. dev. 0.6098 0.6577

weight sum 18 63

precision 0.0678 0.0678

#### GENE2785X

mean -0.389 0.0113

std. dev. 0.5067 0.5966

weight sum 23 70

precision 0.0418 0.0418

#### GENE2789X

mean -0.5015 0.1052

std. dev. 0.6242 0.6007

weight sum 22 69

precision 0.0563 0.0563

#### GENE2788X

mean -0.4667 0.1388

std. dev. 0.5316 0.5319

weight sum 21 66

precision 0.0428 0.0428

#### GENE2787X

mean -0.3702 0.1853

std. dev. 0.4262 0.5297

weight sum 19 60

precision 0.0404 0.0404

#### GENE2783X

mean -0.1976 0.0564

std. dev. 0.4302 0.5103

weight sum 21 69

precision 0.0364 0.0364

#### GENE2782X

mean -0.2391 0.1388

std. dev. 0.5582 0.6007

weight sum 23 72

precision 0.0478 0.0478

#### GENE2777X

mean -0.4217 0.1027

std. dev. 0.6636 0.6113

weight sum 23 72

precision 0.0548 0.0548

#### GENE2853X

mean -0.2237 0.0454

std. dev. 0.5519 0.4784

weight sum 23 66

precision 0.0422 0.0422

#### GENE2854X

mean -0.1167 0.0775

std. dev. 0.614 0.455

weight sum 21 67

precision 0.0415 0.0415

#### GENE2773X

mean -0.3263 0.0209

std. dev. 0.5367 0.5289

weight sum 19 62



precision 0.0392 0.0392

#### GENE2774X

mean -0.1747 -0.0028

std. dev. 0.5538 0.7292

weight sum 21 69

precision 0.0489 0.0489

#### GENE2775X

mean -0.168 0.0567

std. dev. 0.6044 0.7418

weight sum 20 66

precision 0.0542 0.0542

#### GENE2776X

mean -0.1765 0.0409

std. dev. 0.6622 0.651

weight sum 21 68

precision 0.0618 0.0618

#### GENE2855X

mean -0.0655 0.0491

std. dev. 0.3372 0.4767

weight sum 21 62

precision 0.0417 0.0417

#### GENE2772X

mean -0.1623 -0.0363

std. dev. 0.5574 0.5736

weight sum 22 65

precision 0.0347 0.0347

#### GENE2778X

mean -0.1657 0.0537

std. dev. 0.4132 0.515

weight sum 23 71

precision 0.0443 0.0443

#### GENE2749X

mean -0.1533 -0.0349

std. dev. 0.445 0.5169

weight sum 22 70

precision 0.0388 0.0388

#### GENE2864X

mean -0.1875 0.1282

std. dev. 0.4162 0.5493

weight sum 19 67

precision 0.0457 0.0457

#### GENE2856X

mean -0.1589 0.1097

std. dev. 0.5443 0.593

weight sum 23 70

precision 0.0463 0.0463

#### GENE2768X

mean 0.2629 0.3059

std. dev. 0.5696 1.0033

weight sum 22 71

precision 0.059 0.059

#### GENE2767X

mean -0.2826 0.4272

std. dev. 0.5064 1.3156

weight sum 22 72

precision 0.0807 0.0807

#### GENE2766X

mean -0.024 0.2169

std. dev. 0.4494 0.8196

weight sum 23 72

precision 0.0691 0.0691

#### GENE2765X

mean -0.0909 0.001

std. dev. 0.448 0.8091

weight sum 23 72

precision 0.0721 0.0721

#### GENE2764X

mean 0.023 0.1185

std. dev. 0.5155 0.7807

weight sum 23 71

precision 0.0662 0.0662

#### GENE2763X

mean 0.0254 0.1157

std. dev. 0.564 0.7859

weight sum 23 70

precision 0.0729 0.0729

#### GENE2762X

mean -0.2217 0.3361

std. dev. 0.586 1.0199

weight sum 21 65

precision 0.0716 0.0716

#### GENE2761X

mean 0.0163 0.4488

std. dev. 0.8744 1.3575

weight sum 22 71

precision 0.0895 0.0895

#### GENE2760X

mean -0.6062 0.3429

std. dev. 0.3963 0.9651

weight sum 23 71

precision 0.0738 0.0738

#### GENE2759X

mean -0.9011 0.4873

std. dev. 0.5647 1.2214

weight sum 21 72

precision 0.0788 0.0788

#### GENE2758X

mean -0.7086 0.5993

std. dev. 0.4786 1.2284

weight sum 22 72

precision 0.0739 0.0739

#### GENE2757X

mean -0.6294 0.447

std. dev. 0.5692 1.1169

weight sum 21 61

precision 0.0755 0.0755

#### GENE2756X

mean -0.1658 0.2891

std. dev. 0.7732 1.0616

weight sum 21 68

precision 0.0725 0.0725

#### GENE2755X

mean 0.0497 0.086

std. dev. 0.5856 0.8467

weight sum 20 66

precision 0.0585 0.0585

#### GENE2754X

mean 0.0688 0.0822

std. dev. 0.4203 0.6653

weight sum 20 68

precision 0.0444 0.0444

#### GENE2865X

mean -0.1909 0.1134

std. dev. 0.2982 0.4356

weight sum 23 70

precision 0.0403 0.0403

#### GENE2866X

mean -0.1721 0.1554

std. dev. 0.3536 0.5575

weight sum 23 70

precision 0.0477 0.0477

#### GENE2750X

mean -0.5585 0.203

std. dev. 0.7924 1.0587

weight sum 21 68

precision 0.0742 0.0742

#### GENE2746X

mean -0.3542 0.1929

std. dev. 0.6586 0.7283

weight sum 22 68

precision 0.0649 0.0649

#### GENE2745X

mean -0.2342 0.0288

std. dev. 0.6559 0.6259

weight sum 21 71

precision 0.0639 0.0639

#### GENE2872X

mean -0.1088 0.1026

std. dev. 0.5278 0.698

weight sum 22 69

precision 0.0499 0.0499

#### GENE2870X

mean -0.2128 0.0349

std. dev. 0.6355 0.9252

weight sum 23 72

precision 0.068 0.068

#### GENE2712X

mean -0.3268 0.0759

std. dev. 0.3778 0.5658

weight sum 18 63



precision 0.0354 0.0354

#### GENE2747X

mean -0.286 0.1533

std. dev. 0.5965 0.5225

weight sum 21 71

precision 0.0595 0.0595

#### GENE2883X

mean -0.1425 0.0707

std. dev. 0.3771 0.4628

weight sum 23 71

precision 0.0356 0.0356

#### GENE2876X

mean -0.2992 0.0847

std. dev. 0.4195 0.5985

weight sum 20 60

precision 0.0565 0.0565

#### GENE279X

mean 0.0463 0.3719

std. dev. 0.9548 1.1474

weight sum 23 69

precision 0.0591 0.0591

#### GENE280X

mean -0.0037 0.2044

std. dev. 0.78 1.067

weight sum 19 60

precision 0.0709 0.0709

#### GENE2895X

mean -0.0305 0.1383

std. dev. 0.5207 0.84

weight sum 22 69

precision 0.0745 0.0745

#### GENE2896X

mean -0.0919 0.0485

std. dev. 0.4136 0.5062

weight sum 23 71

precision 0.0492 0.0492

#### GENE2650X

mean -0.1558 0.1361

std. dev. 0.3307 0.6486

weight sum 23 72

precision 0.056 0.056

#### GENE2651X

mean -0.2934 0.215

std. dev. 0.3707 0.7491

weight sum 20 64

precision 0.0699 0.0699

#### GENE2897X

mean -0.3477 0.2167

std. dev. 0.5906 0.77

weight sum 21 72

precision 0.0624 0.0624

#### GENE2898X

mean -0.3288 -0.0176

std. dev. 0.707 0.7509

weight sum 22 67

precision 0.0561 0.0561

#### GENE2899X

mean -0.3005 0.0494

std. dev. 0.7407 0.7683

weight sum 21 70

precision 0.0467 0.0467

#### GENE1955X

mean -0.2339 0.1326

std. dev. 0.2856 0.5226

weight sum 23 69

precision 0.0393 0.0393

#### GENE2918X

mean -0.0671 0.0606

std. dev. 0.4354 0.5055

weight sum 23 72

precision 0.0303 0.0303

#### GENE2917X

mean -0.0544 0.0743

std. dev. 0.3971 0.5224

weight sum 21 69

precision 0.0394 0.0394

#### GENE2690X

mean -0.2133 0.144

std. dev. 0.6051 0.605

weight sum 23 72

precision 0.0399 0.0399

#### GENE2913X

mean -0.2806 0.3684

std. dev. 0.5397 1.1594

weight sum 20 66

precision 0.0935 0.0935

#### GENE2914X

mean 0.0095 0.108

std. dev. 0.4732 0.6615

weight sum 23 68

precision 0.0548 0.0548

#### GENE2915X

mean -0.0552 0.1451

std. dev. 0.5346 0.5748

weight sum 20 70

precision 0.0442 0.0442

#### GENE2916X

mean -0.2027 0.1254

std. dev. 0.3162 0.4909

weight sum 23 71

precision 0.042 0.042

#### GENE2660X

mean 0.0884 0.1529

std. dev. 0.646 0.6004

weight sum 21 71

precision 0.0413 0.0413

#### GENE1957X

mean -0.1297 0.1682

std. dev. 0.5311 0.7357

weight sum 23 68

precision 0.0621 0.0621

#### GENE2691X

mean -0.1389 0.006

std. dev. 0.7175 0.733

weight sum 23 65

precision 0.0652 0.0652

#### GENE2923X

mean -0.2643 0.0287

std. dev. 0.4969 0.6584

weight sum 21 68

precision 0.05 0.05

#### GENE2922X

mean -0.2349 0.0134

std. dev. 0.3761 0.5521

weight sum 23 70

precision 0.047 0.047

#### GENE2905X

mean -0.1687 0.1433

std. dev. 0.4374 0.5995

weight sum 21 69

precision 0.0437 0.0437

#### GENE2901X

mean -0.0484 0.0196

std. dev. 0.3704 0.4417

weight sum 21 67

precision 0.0328 0.0328

#### GENE2689X

mean -0.2638 0.0093

std. dev. 0.5167 0.5425

weight sum 21 68

precision 0.0423 0.0423

#### GENE2686X

mean -0.2515 0.0257

std. dev. 0.5323 0.497

weight sum 21 69

precision 0.0433 0.0433

#### GENE2910X

mean -0.2016 0.021

std. dev. 0.5087 0.4685

weight sum 16 61

precision 0.0389 0.0389

#### GENE2911X

mean -0.1036 0.0807

std. dev. 0.3924 0.395

weight sum 21 70

precision 0.0382 0.0382

#### GENE2128X

mean -0.2404 0.0618

std. dev. 0.3781 0.4237

weight sum 19 69



precision 0.0336 0.0336

#### GENE2640X

mean -0.1816 0.0817

std. dev. 0.3237 0.4274

weight sum 22 70

precision 0.0339 0.0339

#### GENE2706X

mean -0.1346 -0.0075

std. dev. 0.3527 0.337

weight sum 20 61

precision 0.0328 0.0328

#### GENE2683X

mean -0.0529 0.0181

std. dev. 0.6088 0.7045

weight sum 23 71

precision 0.0715 0.0715

#### GENE2682X

mean 0.0298 -0.028

std. dev. 0.6168 0.8348

weight sum 20 66

precision 0.0596 0.0596

#### GENE2681X

mean 0.1097 -0.0104

std. dev. 0.5311 0.6031

weight sum 23 72

precision 0.0537 0.0537

#### GENE2649X

mean -0.0292 0.0657

std. dev. 0.5139 0.5224

weight sum 23 71

precision 0.042 0.042

#### GENE2648X

mean -0.1175 0.0815

std. dev. 0.443 0.6429

weight sum 23 72

precision 0.0575 0.0575

#### GENE2647X

mean -0.1421 0.1915

std. dev. 0.626 0.6702

weight sum 21 70

precision 0.0474 0.0474

#### GENE2684X

mean -0.0772 -0.0076

std. dev. 0.4519 0.6107

weight sum 21 62

precision 0.0523 0.0523

#### GENE231X

mean -0.1451 0.1375

std. dev. 0.5971 0.7359

weight sum 23 72

precision 0.0566 0.0566

#### GENE2942X

mean 0.0363 -0.0136

std. dev. 0.3849 0.4802

weight sum 23 68

precision 0.0439 0.0439

#### GENE2945X

mean 0.0758 0.0261

std. dev. 0.3253 0.4039

weight sum 21 64

precision 0.0398 0.0398

#### GENE2944X

mean 0.0256 0.0154

std. dev. 0.3155 0.5035

weight sum 19 60

precision 0.0487 0.0487

#### GENE2943X

mean -0.0439 -0.0089

std. dev. 0.3663 0.5191

weight sum 23 69

precision 0.0439 0.0439

#### GENE2940X

mean -0.0368 -0

std. dev. 0.4119 0.422

weight sum 21 67

precision 0.0368 0.0368

#### GENE2656X

mean -0.0451 0.0335

std. dev. 0.4171 0.4692

weight sum 23 70

precision 0.0451 0.0451

#### GENE2655X

mean 0 0.0386

std. dev. 0.2724 0.4391

weight sum 23 72

precision 0.0347 0.0347

#### GENE2654X

mean -0.0224 0.1057

std. dev. 0.3424 0.5076

weight sum 23 70

precision 0.0396 0.0396

#### GENE2652X

mean -0.1465 0.0856

std. dev. 0.2875 0.5965

weight sum 22 71

precision 0.0461 0.0461

#### GENE2653X

mean -0.1448 0.0658

std. dev. 0.3212 0.4207

weight sum 23 71

precision 0.0362 0.0362

#### GENE3001X

mean -0.1338 -0.0065

std. dev. 0.4905 0.5001

weight sum 21 62

precision 0.0446 0.0446

#### GENE2637X

mean 0.1165 -0.0073

std. dev. 0.5779 0.5921

weight sum 20 68

precision 0.0496 0.0496

#### GENE2638X

mean 0.0558 0.0017

std. dev. 0.4331 0.5301

weight sum 23 66

precision 0.0558 0.0558

#### GENE2641X

mean -0.1969 0.1162

std. dev. 0.3903 0.5636

weight sum 23 72

precision 0.0457 0.0457

#### GENE3039X

mean -0.1482 -0.0128

std. dev. 0.5775 0.5881

weight sum 20 69

precision 0.0631 0.0631

#### GENE2950X

mean -0.1786 0.007

std. dev. 0.4925 0.4308

weight sum 20 65

precision 0.0503 0.0503

#### GENE2951X

mean -0.2318 0.0007

std. dev. 0.5525 0.5377

weight sum 21 61

precision 0.0431 0.0431

#### GENE2972X

mean -0.0189 -0.1023

std. dev. 0.5101 0.6092

weight sum 23 69

precision 0.0436 0.0436

#### GENE2633X

mean 0.0019 0.0825

std. dev. 0.4422 0.4699

weight sum 21 61

precision 0.039 0.039

#### GENE2631X

mean -0.1028 0.0457

std. dev. 0.4034 0.4543

weight sum 22 67

precision 0.0365 0.0365

#### GENE2630X

mean -0.1239 -0.0627

std. dev. 0.4679 0.4524

weight sum 22 71

precision 0.0303 0.0303

#### GENE3292X

mean -0.4272 0.2022

std. dev. 0.8843 0.9339

weight sum 20 63



precision 0.0791 0.0791

#### GENE2628X

mean -0.2086 -0.0342

std. dev. 0.5772 0.5942

weight sum 22 66

precision 0.0396 0.0396

#### GENE2627X

mean -0.2039 0.006

std. dev. 0.4035 0.5291

weight sum 21 70

precision 0.0322 0.0322

#### GENE2626X

mean -0.2235 0.0848

std. dev. 0.4451 0.4137

weight sum 22 68

precision 0.0424 0.0424

#### GENE2988X

mean -0.2132 0.0011

std. dev. 0.399 0.333

weight sum 20 66

precision 0.0361 0.0361

#### GENE349X

mean -0.0242 0.0421

std. dev. 0.3355 0.5324

weight sum 21 70

precision 0.0338 0.0338

#### GENE1443X

mean -0.0239 0.0575

std. dev. 0.4266 0.4637

weight sum 21 67

precision 0.0313 0.0313

#### GENE2999X

mean -0.1175 0.1357

std. dev. 0.2937 0.4492

weight sum 22 68

precision 0.0327 0.0327

#### GENE2973X

mean 0.1886 0.0299

std. dev. 0.4936 0.5901

weight sum 21 61

precision 0.0455 0.0455

#### GENE2981X

mean -0.0221 0.141

std. dev. 0.4848 0.5699

weight sum 22 64

precision 0.0485 0.0485

#### GENE2967X

mean 0.0945 0.008

std. dev. 0.4235 0.5674

weight sum 23 69

precision 0.0426 0.0426

#### GENE2968X

mean -0.0401 0.0327

std. dev. 0.5016 0.5747

weight sum 21 63

precision 0.0468 0.0468

#### GENE2969X

mean -0.0643 0.0091

std. dev. 0.5115 0.6679

weight sum 22 69

precision 0.0524 0.0524

#### GENE2977X

mean 0.3605 -0.2103

std. dev. 0.771 1.2652

weight sum 23 68

precision 0.0761 0.0761

#### GENE2976X

mean 0.1688 0.0789

std. dev. 0.4486 0.8266

weight sum 23 65

precision 0.0732 0.0732

#### GENE2978X

mean -0.0922 0.1836

std. dev. 0.3428 0.6594

weight sum 23 72

precision 0.0493 0.0493

#### GENE2979X

mean 0.0222 0.0764

std. dev. 0.3792 0.6043

weight sum 23 71

precision 0.0512 0.0512

#### GENE2980X

mean 0.1358 0.0481

std. dev. 0.6316 0.5506

weight sum 23 70

precision 0.0481 0.0481

#### GENE2966X

mean -0.1272 0.0946

std. dev. 0.5019 0.6139

weight sum 21 65

precision 0.0424 0.0424

#### GENE2974X

mean -0.0926 0.0493

std. dev. 0.4401 0.5657

weight sum 23 67

precision 0.0418 0.0418

#### GENE2975X

mean 0.0159 0.032

std. dev. 0.3074 0.3962

weight sum 23 72

precision 0.0281 0.0281

#### GENE2953X

mean -0.202 -0.021

std. dev. 0.8507 0.8595

weight sum 19 63

precision 0.0629 0.0629

#### GENE2952X

mean -0.0518 -0.0149

std. dev. 0.7914 0.6844

weight sum 19 62

precision 0.0615 0.0615

#### GENE3000X

mean -0.1075 0.0239

std. dev. 0.321 0.443

weight sum 22 66

precision 0.0329 0.0329

#### GENE2996X

mean 0.0046 0.1119

std. dev. 0.279 0.4855

weight sum 21 62

precision 0.0479 0.0479

#### GENE2997X

mean 0.0038 0.0359

std. dev. 0.362 0.4209

weight sum 21 68

precision 0.04 0.04

#### GENE2998X

mean 0.0844 -0.0443

std. dev. 0.3581 0.3647

weight sum 23 69

precision 0.0285 0.0285

#### GENE2990X

mean 0.0252 0.0226

std. dev. 0.4668 0.3993

weight sum 19 60

precision 0.0398 0.0398

#### GENE2989X

mean -0.0929 0.0291

std. dev. 0.4031 0.3951

weight sum 23 72

precision 0.0419 0.0419

#### GENE322X

mean -0.0083 0.0916

std. dev. 0.5558 0.5169

weight sum 23 71

precision 0.0382 0.0382

#### GENE346X

mean -0.0619 -0.0064

std. dev. 0.6025 0.5239

weight sum 18 62

precision 0.036 0.036

#### GENE345X

mean 0.0828 -0.0742

std. dev. 0.666 0.7056

weight sum 17 62

precision 0.0469 0.0469

#### GENE344X

mean -0.1964 0.0085

std. dev. 0.9041 0.715

weight sum 23 68



precision 0.0579 0.0579

#### GENE343X

mean -0.1686 0.0312

std. dev. 0.6884 0.6625

weight sum 23 70

precision 0.0497 0.0497

#### GENE342X

mean -0.1156 -0.0289

std. dev. 0.5335 0.3934

weight sum 20 67

precision 0.0472 0.0472

#### GENE341X

mean 0.0321 -0.0501

std. dev. 0.3924 0.497

weight sum 23 69

precision 0.0461 0.0461

#### GENE2983X

mean -0.068 0.0635

std. dev. 0.4176 0.5406

weight sum 22 70

precision 0.0483 0.0483

#### GENE2657X

mean 0.0021 0.0567

std. dev. 0.4641 0.5742

weight sum 22 60

precision 0.0453 0.0453

#### GENE2621X

mean -0.1006 0.0601

std. dev. 0.4628 0.4754

weight sum 17 62

precision 0.0503 0.0503

#### GENE2954X

mean -0.2668 0.0875

std. dev. 0.4714 0.566

weight sum 19 68

precision 0.0441 0.0441

#### GENE2955X

mean -0.2852 0.0865

std. dev. 0.5406 0.4814

weight sum 23 68

precision 0.04 0.04

#### GENE3028X

mean -0.0121 -0.0105

std. dev. 0.2628 0.3445

weight sum 23 72

precision 0.0252 0.0252

#### GENE3027X

mean 0.2996 -0.046

std. dev. 0.4666 0.3964

weight sum 23 71

precision 0.0355 0.0355

#### GENE3026X

mean -0.0605 0.0469

std. dev. 0.325 0.4684

weight sum 19 67

precision 0.0442 0.0442

#### GENE3025X

mean 0.1792 0.0303

std. dev. 0.5639 0.6447

weight sum 20 70

precision 0.0543 0.0543

#### GENE2986X

mean -0.0266 -0.0687

std. dev. 0.5081 0.598

weight sum 22 65

precision 0.0532 0.0532

#### GENE2985X

mean -0.009 0.0498

std. dev. 0.4571 0.3834

weight sum 19 64

precision 0.0343 0.0343

#### GENE3007X

mean -0.1965 0.1285

std. dev. 0.448 0.5136

weight sum 20 63

precision 0.0473 0.0473

#### GENE3008X

mean 0.0859 -0.0127

std. dev. 0.3615 0.392

weight sum 21 62

precision 0.0328 0.0328

#### GENE3012X

mean 0.0324 -0.0189

std. dev. 0.5277 0.3877

weight sum 22 58

precision 0.0549 0.0549

#### GENE3011X

mean 0.0897 -0.017

std. dev. 0.4329 0.4595

weight sum 22 61

precision 0.0493 0.0493

#### GENE2964X

mean -0.0175 0.0751

std. dev. 0.3236 0.3966

weight sum 22 68

precision 0.0321 0.0321

#### GENE3010X

mean -0.0134 0.0497

std. dev. 0.651 0.6592

weight sum 23 67

precision 0.0512 0.0512

#### GENE1444X

mean -0.1189 0.0254

std. dev. 0.6688 0.3999

weight sum 21 68

precision 0.048 0.048

#### GENE2991X

mean -0.1344 0.0255

std. dev. 0.6762 0.4028

weight sum 21 63

precision 0.0553 0.0553

#### GENE2984X

mean -0.0638 0.0178

std. dev. 0.3932 0.3709

weight sum 23 70

precision 0.0367 0.0367

#### GENE3019X

mean -0 0.0421

std. dev. 0.2543 0.4243

weight sum 23 69

precision 0.0285 0.0285

#### GENE3018X

mean 0.0608 0.0508

std. dev. 0.2221 0.411

weight sum 23 71

precision 0.0311 0.0311

#### GENE2620X

mean -0.0463 0.0554

std. dev. 0.3289 0.3752

weight sum 23 71

precision 0.0322 0.0322

#### GENE226X

mean 0.2525 -0.0098

std. dev. 0.3775 0.5044

weight sum 23 71

precision 0.033 0.033

#### GENE225X

mean 0.1514 -0.039

std. dev. 0.3201 0.5535

weight sum 22 68

precision 0.045 0.045

#### GENE1441X

mean 0.0935 -0.0257

std. dev. 0.2637 0.3633

weight sum 23 66

precision 0.0253 0.0253

#### GENE315X

mean 0.0549 0.011

std. dev. 0.2256 0.4504

weight sum 22 71

precision 0.039 0.039

#### GENE327X

mean -0.0336 0.07

std. dev. 0.3037 0.4691

weight sum 21 71

precision 0.0352 0.0352

#### GENE326X

mean 0.048 0.0135

std. dev. 0.2434 0.3666

weight sum 23 70



precision 0.0325 0.0325

#### GENE1051X

mean -0.0235 -0.0295

std. dev. 0.3371 0.4178

weight sum 23 70

precision 0.0338 0.0338

#### GENE1050X

mean -0.0305 -0.0101

std. dev. 0.3026 0.3802

weight sum 23 72

precision 0.027 0.027

#### GENE1049X

mean 0.0635 0.0555

std. dev. 0.2671 0.4769

weight sum 23 69

precision 0.0348 0.0348

#### GENE1048X

mean -0.053 0.1529

std. dev. 0.2845 0.6055

weight sum 22 71

precision 0.0449 0.0449

#### GENE1068X

mean -0.1497 0.0686

std. dev. 0.3529 0.4524

weight sum 22 69

precision 0.0378 0.0378

#### GENE1046X

mean 0.0259 0.0425

std. dev. 0.3088 0.4891

weight sum 22 68

precision 0.038 0.038

#### GENE1047X

mean 0.0416 0.022

std. dev. 0.3749 0.597

weight sum 22 65

precision 0.0572 0.0572

#### GENE2642X

mean 0.0058 0.0306

std. dev. 0.358 0.3836

weight sum 23 70

precision 0.0268 0.0268

#### GENE3015X

mean -0.054 -0.0424

std. dev. 0.7213 0.4989

weight sum 23 72

precision 0.0518 0.0518

#### GENE3014X

mean 0.0285 0.0364

std. dev. 0.4439 0.4767

weight sum 23 72

precision 0.0386 0.0386

#### GENE3013X

mean 0.0053 0.0026

std. dev. 0.333 0.3817

weight sum 23 70

precision 0.0307 0.0307

#### GENE2993X

mean -0.1712 0.1143

std. dev. 0.7989 0.7564

weight sum 22 67

precision 0.0649 0.0649

#### GENE2623X

mean -0.0686 -0.1158

std. dev. 0.6885 0.5509

weight sum 21 68

precision 0.048 0.048

#### GENE2622X

mean -0.0325 -0.0246

std. dev. 0.5263 0.5789

weight sum 23 71

precision 0.0415 0.0415

#### GENE1002X

mean -0.093 0.0563

std. dev. 0.3725 0.4125

weight sum 21 68

precision 0.0383 0.0383

#### GENE1033X

mean -0.0503 0.0773

std. dev. 0.5991 0.5898

weight sum 22 59

precision 0.0443 0.0443

#### GENE3181X

mean 0.1006 0.0457

std. dev. 0.4213 0.4231

weight sum 20 64

precision 0.038 0.038

#### GENE3024X

mean -0.0373 0.0111

std. dev. 0.4807 0.5077

weight sum 20 59

precision 0.0311 0.0311

#### GENE3023X

mean -0.1798 -0.0356

std. dev. 0.4552 0.3383

weight sum 22 66

precision 0.0309 0.0309

#### GENE3022X

mean -0.1222 0.0521

std. dev. 0.2936 0.3538

weight sum 23 68

precision 0.0253 0.0253

#### GENE3021X

mean -0.3151 0.087

std. dev. 0.6442 0.6773

weight sum 21 67

precision 0.0463 0.0463

#### GENE3020X

mean -0.0482 0.0358

std. dev. 0.3873 0.3118

weight sum 21 72

precision 0.023 0.023

#### GENE2597X

mean -0.0507 0.0467

std. dev. 0.5475 0.4042

weight sum 19 58

precision 0.0371 0.0371

#### GENE3006X

mean -0.1817 0.1509

std. dev. 0.8346 1.0082

weight sum 21 68

precision 0.0848 0.0848

#### GENE209X

mean 0.2202 0.0315

std. dev. 0.4116 0.4216

weight sum 20 58

precision 0.0468 0.0468

#### GENE352X

mean 0.049 0.0142

std. dev. 0.325 0.4521

weight sum 23 66

precision 0.047 0.047

#### GENE2619X

mean 0.1028 0.0104

std. dev. 0.6083 0.6838

weight sum 19 66

precision 0.0488 0.0488

#### GENE154X

mean -0.0262 0.0967

std. dev. 0.3457 0.4521

weight sum 21 69

precision 0.0367 0.0367

#### GENE232X

mean 0.0552 0.0304

std. dev. 0.4394 0.6822

weight sum 23 68

precision 0.0471 0.0471

#### GENE1096X

mean -0.1462 0.0881

std. dev. 0.2916 0.3732

weight sum 23 67

precision 0.033 0.033

#### GENE1014X

mean -0.2237 0.1273

std. dev. 0.5593 0.605

weight sum 22 69

precision 0.0482 0.0482

#### GENE3052X

mean -0.1199 0.0345

std. dev. 0.4096 0.4722

weight sum 19 66



precision 0.0651 0.0651

#### GENE3031X

mean 0.0268 0.1155

std. dev. 0.4081 0.5784

weight sum 23 72

precision 0.0363 0.0363

#### GENE2550X

mean -0.3493 0.0495

std. dev. 0.4165 0.3648

weight sum 22 70

precision 0.0315 0.0315

#### GENE1923X

mean -0.4008 0.1046

std. dev. 0.8439 0.8438

weight sum 18 63

precision 0.0627 0.0627

#### GENE2600X

mean 0.0057 0.2154

std. dev. 0.9885 1.0534

weight sum 23 72

precision 0.066 0.066

#### GENE2599X

mean 0.0417 0.2744

std. dev. 1.2357 1.2681

weight sum 23 72

precision 0.08 0.08

#### GENE2598X

mean 0.1354 0.1154

std. dev. 1.0913 1.184

weight sum 23 71

precision 0.0819 0.0819

#### GENE2593X

mean -0.148 -0.0236

std. dev. 0.4802 0.39

weight sum 23 72

precision 0.0299 0.0299

#### GENE2594X

mean 0.1838 0.0485

std. dev. 0.5351 0.5421

weight sum 23 72

precision 0.0388 0.0388

#### GENE2615X

mean -0.0597 0.0673

std. dev. 0.4045 0.5159

weight sum 21 66

precision 0.0523 0.0523

#### GENE2616X

mean 0.1046 -0.1

std. dev. 0.4178 0.62

weight sum 23 71

precision 0.0388 0.0388

#### GENE2617X

mean 0.0391 0.0237

std. dev. 0.4821 0.6139

weight sum 23 67

precision 0.0691 0.0691

#### GENE148X

mean 0.1755 -0.0994

std. dev. 0.3536 0.657

weight sum 19 58

precision 0.0565 0.0565

#### GENE89X

mean -0.0146 0.1093

std. dev. 0.4172 0.5063

weight sum 23 70

precision 0.0336 0.0336

#### GENE88X

mean -0.1352 0.0794

std. dev. 0.3335 0.4978

weight sum 20 64

precision 0.0466 0.0466

#### GENE87X

mean -0.203 0.0565

std. dev. 0.5355 0.5675

weight sum 23 64

precision 0.0458 0.0458

#### GENE1278X

mean -0.0175 -0.0078

std. dev. 0.3674 0.3624

weight sum 21 67

precision 0.0306 0.0306

#### GENE2017X

mean -0.07 0.0074

std. dev. 0.3587 0.5672

weight sum 20 63

precision 0.0518 0.0518

#### GENE1977X

mean -0.0355 0.0328

std. dev. 0.2963 0.4313

weight sum 23 66

precision 0.0408 0.0408

#### GENE3114X

mean -0.1683 -0.0523

std. dev. 0.3282 0.4435

weight sum 21 64

precision 0.0372 0.0372

#### GENE1951X

mean -0.1889 0.0995

std. dev. 0.3879 0.4678

weight sum 22 66

precision 0.0396 0.0396

#### GENE2030X

mean -0.1139 0.1448

std. dev. 0.3294 0.5318

weight sum 18 61

precision 0.0526 0.0526

#### GENE2029X

mean -0.0048 0.0317

std. dev. 0.3459 0.3729

weight sum 20 64

precision 0.0322 0.0322

#### GENE2028X

mean -0.1485 0.015

std. dev. 0.2638 0.4193

weight sum 20 67

precision 0.0371 0.0371

#### GENE2027X

mean 0.0346 -0.0712

std. dev. 0.5259 0.5359

weight sum 23 67

precision 0.0497 0.0497

#### GENE1830X

mean -0.1045 0.0914

std. dev. 0.6476 0.6501

weight sum 22 58

precision 0.0638 0.0638

#### GENE1288X

mean 0.0853 0.0107

std. dev. 0.6194 0.755

weight sum 22 57

precision 0.0507 0.0507

#### GENE1302X

mean 0.2286 0.0184

std. dev. 0.3719 0.4594

weight sum 23 71

precision 0.0311 0.0311

#### GENE1303X

mean 0.1449 -0.0618

std. dev. 0.7504 1.0023

weight sum 22 66

precision 0.0638 0.0638

#### GENE1304X

mean 0.254 -0.0585

std. dev. 0.5001 0.7375

weight sum 20 68

precision 0.0612 0.0612

#### GENE1318X

mean 0.2502 0.0133

std. dev. 0.7838 0.8846

weight sum 22 64

precision 0.0568 0.0568

#### GENE1308X

mean 0.0611 0.104

std. dev. 0.7107 0.859

weight sum 23 64

precision 0.074 0.074

#### GENE1309X

mean 0.431 0.012

std. dev. 0.9739 0.7384

weight sum 21 67



precision 0.0576 0.0576

#### GENE1310X

mean 0.7487 0.0629

std. dev. 1.4871 1.5322

weight sum 23 62

precision 0.0906 0.0906

#### GENE1311X

mean 0.4999 0.0547

std. dev. 1.4958 1.6363

weight sum 23 62

precision 0.0942 0.0942

#### GENE1312X

mean 0.5772 0.0767

std. dev. 1.1374 1.4219

weight sum 23 71

precision 0.0767 0.0767

#### GENE1313X

mean 0.6329 0.0245

std. dev. 1.1891 1.2098

weight sum 23 70

precision 0.0747 0.0747

#### GENE1314X

mean 0.1843 0.0274

std. dev. 0.7593 1.1563

weight sum 23 70

precision 0.0662 0.0662

#### GENE1315X

mean -0.0854 0.0518

std. dev. 1.348 1.1135

weight sum 23 70

precision 0.0755 0.0755

#### GENE1316X

mean -0.0491 0.1231

std. dev. 1.1087 1.0113

weight sum 23 71

precision 0.0753 0.0753

#### GENE1317X

mean 0.228 -0.0923

std. dev. 0.8908 1.1377

weight sum 23 61

precision 0.0639 0.0639

#### GENE1307X

mean -0.0915 -0.1115

std. dev. 1.1857 1.1215

weight sum 21 60

precision 0.0712 0.0712

#### GENE1306X

mean -0.0615 -0.0631

std. dev. 0.8738 1.0679

weight sum 23 64

precision 0.0673 0.0673

#### GENE1337X

mean 0.5443 -0.0488

std. dev. 0.8526 0.9546

weight sum 23 72

precision 0.0763 0.0763

#### GENE1338X

mean 0.1761 -0.1588

std. dev. 0.5262 0.5933

weight sum 20 63

precision 0.047 0.047

#### GENE1339X

mean 0.2166 -0.1398

std. dev. 0.6739 0.5791

weight sum 21 61

precision 0.0517 0.0517

#### GENE2016X

mean 0.1371 -0.0018

std. dev. 0.4551 0.4076

weight sum 22 67

precision 0.0299 0.0299

#### GENE1950X

mean -0.0177 0.0817

std. dev. 0.2919 0.4588

weight sum 20 64

precision 0.0353 0.0353

#### GENE2018X

mean 0.1149 -0.0105

std. dev. 0.3904 0.4175

weight sum 23 67

precision 0.0281 0.0281

#### GENE2019X

mean -0.1662 0.0583

std. dev. 0.7307 0.7795

weight sum 21 69

precision 0.0442 0.0442

#### GENE1976X

mean -0.06 0.0446

std. dev. 0.4329 0.5036

weight sum 22 68

precision 0.033 0.033

#### GENE2021X

mean 0.1347 -0.0541

std. dev. 0.6224 0.696

weight sum 20 60

precision 0.055 0.055

#### GENE2020X

mean -0.0595 -0.0635

std. dev. 0.5455 0.7104

weight sum 21 59

precision 0.0481 0.0481

#### GENE2010X

mean -0.3498 0.2396

std. dev. 0.3808 0.635

weight sum 20 68

precision 0.0451 0.0451

#### GENE2012X

mean -0.1375 0.2746

std. dev. 0.5663 0.9742

weight sum 20 66

precision 0.0809 0.0809

#### GENE1342X

mean 0.0179 0.1723

std. dev. 0.4115 0.6929

weight sum 21 61

precision 0.0536 0.0536

#### GENE2011X

mean -0.1561 0.3121

std. dev. 0.6112 0.9896

weight sum 21 65

precision 0.1025 0.1025

#### GENE2722X

mean -0.1008 0.0824

std. dev. 0.3007 0.3719

weight sum 22 72

precision 0.0288 0.0288

#### GENE1981X

mean -0.0268 0.0994

std. dev. 0.6038 0.5356

weight sum 19 60

precision 0.0462 0.0462

#### GENE1982X

mean -0.0692 -0.0109

std. dev. 0.4634 0.5463

weight sum 22 68

precision 0.0435 0.0435

#### GENE2003X

mean -0.2275 0.2028

std. dev. 0.4084 0.6149

weight sum 20 61

precision 0.0555 0.0555

#### GENE1987X

mean -0.0125 0.092

std. dev. 0.3527 0.5282

weight sum 23 67

precision 0.0478 0.0478

#### GENE1986X

mean -0.0502 0.084

std. dev. 0.2902 0.5868

weight sum 22 69

precision 0.0552 0.0552

#### GENE1997X

mean -0.1078 0.0886

std. dev. 0.4571 0.5419

weight sum 21 68

precision 0.0482 0.0482

#### GENE1996X

mean -0.1907 0.1039

std. dev. 0.6457 1.3768

weight sum 21 65



precision 0.1144 0.1144

#### GENE1995X

mean -0.1172 0.2192

std. dev. 0.6595 1.3035

weight sum 21 58

precision 0.1025 0.1025

#### GENE1994X

mean 0.0172 0.1563

std. dev. 0.4323 0.9175

weight sum 22 70

precision 0.0755 0.0755

#### GENE1993X

mean -0.1292 0.115

std. dev. 0.3359 0.8265

weight sum 22 68

precision 0.0711 0.0711

#### GENE1992X

mean -0.1107 0.2398

std. dev. 0.4039 0.7494

weight sum 23 70

precision 0.0579 0.0579

#### GENE1991X

mean -0.0924 0.1895

std. dev. 0.2918 0.6327

weight sum 23 67

precision 0.0506 0.0506

#### GENE1990X

mean -0.0995 0.1424

std. dev. 0.2648 0.6382

weight sum 23 70

precision 0.0545 0.0545

#### GENE1989X

mean 0.0774 0.0209

std. dev. 0.3481 0.6341

weight sum 22 69

precision 0.0655 0.0655

#### GENE1998X

mean -0.2166 0.1179

std. dev. 0.5376 0.6464

weight sum 19 60

precision 0.0528 0.0528

#### GENE1999X

mean -0.1301 0.1387

std. dev. 0.5628 0.7329

weight sum 22 63

precision 0.0511 0.0511

#### GENE1988X

mean -0.1747 0.2397

std. dev. 0.4218 0.7063

weight sum 23 71

precision 0.0473 0.0473

#### GENE2000X

mean -0.3355 0.0242

std. dev. 0.736 0.8302

weight sum 23 70

precision 0.0627 0.0627

#### GENE2001X

mean -0.3168 0.0733

std. dev. 0.9763 0.939

weight sum 17 61

precision 0.0829 0.0829

#### GENE2002X

mean -0.0432 0.0627

std. dev. 0.3893 0.5065

weight sum 23 72

precision 0.0414 0.0414

#### GENE1984X

mean -0.198 0.0988

std. dev. 0.3833 0.5694

weight sum 21 66

precision 0.0473 0.0473

#### GENE1983X

mean -0.097 -0.0057

std. dev. 0.3191 0.4367

weight sum 23 70

precision 0.0333 0.0333

#### GENE1980X

mean -0.0045 0.0638

std. dev. 0.3942 0.5513

weight sum 22 67

precision 0.0491 0.0491

#### GENE1985X

mean -0.2065 0.1269

std. dev. 0.4722 0.6313

weight sum 19 63

precision 0.049 0.049

#### GENE2009X

mean -0.1417 0.2326

std. dev. 0.4644 0.9943

weight sum 22 67

precision 0.0649 0.0649

#### GENE1326X

mean 0.4331 0.2222

std. dev. 0.7812 1.32

weight sum 22 69

precision 0.0829 0.0829

#### GENE2008X

mean -0.1174 0.1707

std. dev. 0.5584 0.7864

weight sum 23 61

precision 0.0771 0.0771

#### GENE2007X

mean -0.1054 0.1666

std. dev. 0.6108 1.1395

weight sum 22 64

precision 0.0927 0.0927

#### GENE2006X

mean 0.0832 0.3303

std. dev. 0.767 1.1256

weight sum 23 63

precision 0.0765 0.0765

#### GENE2005X

mean -0.0338 0.0796

std. dev. 0.3211 0.6919

weight sum 23 64

precision 0.0707 0.0707

#### GENE2004X

mean -0.0208 0.0993

std. dev. 0.3758 0.4826

weight sum 21 64

precision 0.0485 0.0485

#### GENE1327X

mean 0.1568 0.0018

std. dev. 0.5673 0.8181

weight sum 21 63

precision 0.0578 0.0578

#### GENE1328X

mean 0.302 0.299

std. dev. 0.5757 1.473

weight sum 20 67

precision 0.1007 0.1007

#### GENE1329X

mean 0.0053 0.304

std. dev. 0.7028 1.691

weight sum 21 69

precision 0.1104 0.1104

#### GENE1330X

mean -0.0274 0.2906

std. dev. 0.6986 1.2579

weight sum 22 56

precision 0.1004 0.1004

#### GENE1334X

mean 0.1888 0.1745

std. dev. 0.5435 0.7953

weight sum 23 70

precision 0.0426 0.0426

#### GENE1333X

mean 0.1133 0.1366

std. dev. 0.4173 0.7491

weight sum 22 72

precision 0.0453 0.0453

#### GENE1332X

mean 0.0528 0.1085

std. dev. 0.4756 0.6132

weight sum 23 72

precision 0.0379 0.0379

#### GENE1331X

mean 0.2804 0.1099

std. dev. 0.5446 0.8411

weight sum 21 64



precision 0.0818 0.0818

#### GENE1979X

mean -0.0055 0.0467

std. dev. 0.3684 0.5727

weight sum 20 62

precision 0.0547 0.0547

#### GENE1978X

mean 0.064 -0.0327

std. dev. 0.3958 0.4285

weight sum 19 63

precision 0.0338 0.0338

#### GENE2963X

mean 0.0729 0.0255

std. dev. 0.6196 0.4094

weight sum 22 58

precision 0.0422 0.0422

#### GENE2962X

mean -0.2569 0.0457

std. dev. 0.4401 0.4004

weight sum 19 66

precision 0.0503 0.0503

#### GENE2013X

mean -0.0963 0.1511

std. dev. 0.5067 0.6006

weight sum 19 64

precision 0.0523 0.0523

#### GENE2014X

mean -0.0488 0.1146

std. dev. 0.563 0.4383

weight sum 21 60

precision 0.0427 0.0427

#### GENE2015X

mean -0.0408 0.0543

std. dev. 0.5795 0.7588

weight sum 21 57

precision 0.0659 0.0659

#### GENE1305X

mean -0.1426 0.2042

std. dev. 0.8983 1.1799

weight sum 23 67

precision 0.08 0.08

#### GENE1943X

mean 0.1315 0.0458

std. dev. 0.4275 0.4555

weight sum 22 64

precision 0.0381 0.0381

#### GENE1344X

mean -0.0284 0.0175

std. dev. 0.4855 0.6645

weight sum 21 68

precision 0.0662 0.0662

#### GENE1345X

mean -0.0093 0.0394

std. dev. 0.2639 0.4773

weight sum 21 67

precision 0.0489 0.0489

#### GENE1343X

mean -0.1473 0.2293

std. dev. 0.5218 1.2173

weight sum 21 70

precision 0.0836 0.0836

#### GENE1336X

mean 0.0402 0.1834

std. dev. 0.5041 0.6365

weight sum 23 72

precision 0.0543 0.0543

#### GENE2036X

mean 0.0856 0.0151

std. dev. 0.537 0.643

weight sum 23 68

precision 0.0428 0.0428

#### GENE1276X

mean -0.1026 0.1597

std. dev. 0.3255 0.7243

weight sum 22 58

precision 0.0778 0.0778

#### GENE1939X

mean 0.2564 0.0449

std. dev. 1.0273 1.3471

weight sum 22 66

precision 0.0705 0.0705

#### GENE1940X

mean 0.1458 0.1119

std. dev. 0.829 0.9707

weight sum 23 57

precision 0.0658 0.0658

#### GENE1941X

mean 0.1555 -0.0945

std. dev. 0.9854 1.0325

weight sum 22 69

precision 0.0646 0.0646

#### GENE1942X

mean 0.0191 -0.0489

std. dev. 0.5294 0.6155

weight sum 22 72

precision 0.0323 0.0323

#### GENE1273X

mean -0.0523 0.0335

std. dev. 0.3652 0.3552

weight sum 23 71

precision 0.028 0.028

#### GENE1274X

mean 0.041 -0.0015

std. dev. 0.3923 0.5172

weight sum 23 69

precision 0.0524 0.0524

#### GENE1275X

mean 0.0228 0.0867

std. dev. 0.4276 0.7127

weight sum 21 58

precision 0.0798 0.0798

#### GENE2035X

mean -0.1081 0.0136

std. dev. 0.5671 0.6253

weight sum 22 68

precision 0.0485 0.0485

#### GENE1352X

mean 0.0526 -0.0031

std. dev. 0.4945 0.7491

weight sum 23 70

precision 0.055 0.055

#### GENE1351X

mean 0.2422 -0.0967

std. dev. 0.4536 0.6263

weight sum 21 66

precision 0.0499 0.0499

#### GENE1350X

mean 0.2143 -0.1055

std. dev. 0.5277 0.6359

weight sum 19 62

precision 0.0485 0.0485

#### GENE1349X

mean 0.0715 -0.0409

std. dev. 0.8816 1.1849

weight sum 22 68

precision 0.0605 0.0605

#### GENE1281X

mean -0.0716 0.1719

std. dev. 0.382 0.554

weight sum 22 71

precision 0.0404 0.0404

#### GENE1282X

mean -0.1309 0.1854

std. dev. 0.9523 0.972

weight sum 23 69

precision 0.0684 0.0684

#### GENE1283X

mean -0.0226 0.1754

std. dev. 0.8833 1.1274

weight sum 23 72

precision 0.0865 0.0865

#### GENE3127X

mean -0.0813 -0.029

std. dev. 0.2724 0.3542

weight sum 20 64

precision 0.029 0.029

#### GENE3925X

mean -0.2598 0.0408

std. dev. 0.5175 0.7006

weight sum 21 59



precision 0.0708 0.0708

#### GENE3924X

mean -0.6045 0.0672

std. dev. 0.768 0.715

weight sum 23 68

precision 0.0491 0.0491

#### GENE3923X

mean -0.6549 0.0315

std. dev. 0.8307 0.762

weight sum 23 69

precision 0.0494 0.0494

#### GENE3922X

mean -0.5241 0.0822

std. dev. 0.8268 0.8829

weight sum 23 72

precision 0.0533 0.0533

#### GENE3921X

mean -0.2653 0.05

std. dev. 0.4916 0.5703

weight sum 19 63

precision 0.045 0.045

#### GENE2034X

mean -0.5908 0.1666

std. dev. 0.7091 0.9443

weight sum 23 69

precision 0.0615 0.0615

#### GENE2033X

mean -0.5369 0.1647

std. dev. 0.7189 1.1888

weight sum 23 69

precision 0.0818 0.0818

#### GENE2032X

mean -0.5459 0.2427

std. dev. 0.7108 1.164

weight sum 21 71

precision 0.0721 0.0721

#### GENE2031X

mean -0.4417 0.1195

std. dev. 0.443 0.6301

weight sum 19 63

precision 0.0454 0.0454

#### GENE3873X

mean -0.2681 -0.0182

std. dev. 0.7549 0.7621

weight sum 23 72

precision 0.0656 0.0656

#### GENE1373X

mean -0.2471 0.2035

std. dev. 0.3621 0.6695

weight sum 23 69

precision 0.0462 0.0462

#### GENE1371X

mean 0.3076 0.4839

std. dev. 1.1544 1.701

weight sum 23 70

precision 0.0996 0.0996

#### GENE1370X

mean 0.1409 0.2775

std. dev. 0.9925 1.5446

weight sum 23 71

precision 0.0876 0.0876

#### GENE1369X

mean 0.0945 0.281

std. dev. 0.5684 1.1178

weight sum 23 72

precision 0.0679 0.0679

#### GENE1368X

mean -0.0158 0.2703

std. dev. 0.5803 1.1082

weight sum 23 70

precision 0.0728 0.0728

#### GENE1372X

mean -0.2908 0.2253

std. dev. 0.4323 0.5762

weight sum 19 58

precision 0.0428 0.0428

#### GENE1367X

mean -0.0147 0.292

std. dev. 0.4727 0.9316

weight sum 21 68

precision 0.0619 0.0619

#### GENE1364X

mean -0.1738 0.1101

std. dev. 0.8043 1.3124

weight sum 22 71

precision 0.0831 0.0831

#### GENE1365X

mean -0.1557 0.156

std. dev. 0.685 1.3013

weight sum 22 72

precision 0.0797 0.0797

#### GENE1366X

mean -0.0961 0.2463

std. dev. 0.6525 1.0266

weight sum 23 71

precision 0.065 0.065

#### GENE1363X

mean 0.0486 0.1516

std. dev. 0.8807 1.1804

weight sum 22 71

precision 0.0763 0.0763

#### GENE1362X

mean 0.05 0.3595

std. dev. 0.6127 1.1399

weight sum 22 67

precision 0.0648 0.0648

#### GENE1361X

mean -0.0703 -0.0229

std. dev. 0.7792 1.1328

weight sum 22 57

precision 0.0814 0.0814

#### GENE1360X

mean 0.3847 -0.1043

std. dev. 0.6879 0.9746

weight sum 21 67

precision 0.0607 0.0607

#### GENE1359X

mean -0.0217 -0.0408

std. dev. 1.2654 1.4922

weight sum 20 66

precision 0.0869 0.0869

#### GENE1358X

mean 0.274 0.2472

std. dev. 1.3995 1.9424

weight sum 22 66

precision 0.1039 0.1039

#### GENE1357X

mean 0.1574 0.1104

std. dev. 0.7179 1.0864

weight sum 23 72

precision 0.071 0.071

#### GENE1356X

mean 0.1114 0.0389

std. dev. 0.6637 0.8245

weight sum 23 72

precision 0.0596 0.0596

#### GENE1355X

mean -0.0614 0.0112

std. dev. 0.3722 0.6455

weight sum 23 71

precision 0.0441 0.0441

#### GENE2304X

mean -0.5238 0.3192

std. dev. 1.0871 1.8964

weight sum 22 70

precision 0.0784 0.0784

#### GENE2305X

mean -0.4014 0.3616

std. dev. 1.098 1.7894

weight sum 22 69

precision 0.096 0.096

#### GENE2306X

mean -0.0038 0.1428

std. dev. 0.3443 0.5953

weight sum 23 71

precision 0.0433 0.0433

#### GENE1838X

mean -0.025 0.0846

std. dev. 0.2264 0.3858

weight sum 23 69



precision 0.0319 0.0319

#### GENE7X

mean -0.0172 0.0035

std. dev. 0.6254 0.6347

weight sum 21 65

precision 0.0451 0.0451

#### GENE2559X

mean -0.3856 0.1083

std. dev. 0.6407 0.7345

weight sum 22 72

precision 0.0527 0.0527

#### GENE2558X

mean -0.2765 0.2279

std. dev. 0.5414 0.6467

weight sum 23 72

precision 0.0468 0.0468

#### GENE1279X

mean 0.1833 0.038

std. dev. 0.6508 0.7887

weight sum 23 72

precision 0.057 0.057

#### GENE1111X

mean 0.0257 0.0837

std. dev. 0.509 0.7013

weight sum 21 71

precision 0.06 0.06

#### GENE1112X

mean -0.0518 -0.001

std. dev. 0.5513 0.7521

weight sum 22 69

precision 0.0713 0.0713

#### GENE1269X

mean 0.0197 0.1188

std. dev. 0.3307 0.4622

weight sum 23 71

precision 0.0348 0.0348

#### GENE1183X

mean 0.1012 0.1303

std. dev. 0.6229 0.5872

weight sum 21 69

precision 0.0494 0.0494

#### GENE1184X

mean 0.607 0.1137

std. dev. 0.9664 1.1177

weight sum 23 72

precision 0.0671 0.0671

#### GENE1270X

mean 0.1095 0.0233

std. dev. 0.3712 0.5388

weight sum 23 69

precision 0.0413 0.0413

#### GENE1258X

mean 0.1338 -0.0855

std. dev. 0.6988 0.7188

weight sum 22 67

precision 0.0526 0.0526

#### GENE1259X

mean 0.0786 -0.0871

std. dev. 0.9089 1.1102

weight sum 23 70

precision 0.0753 0.0753

#### GENE1260X

mean 0.2909 -0.0429

std. dev. 0.7407 1.0077

weight sum 23 72

precision 0.0858 0.0858

#### GENE1261X

mean 0.0797 0.002

std. dev. 1.0053 0.995

weight sum 23 71

precision 0.0705 0.0705

#### GENE1188X

mean -0.1385 0.3009

std. dev. 1.0538 1.0739

weight sum 23 72

precision 0.0708 0.0708

#### GENE1189X

mean -0.469 0.2497

std. dev. 1.2608 1.3547

weight sum 21 71

precision 0.0821 0.0821

#### GENE1190X

mean -0.4587 0.3961

std. dev. 1.2844 1.3967

weight sum 23 72

precision 0.0894 0.0894

#### GENE1191X

mean -0.0044 0.4922

std. dev. 0.5828 1.4663

weight sum 20 58

precision 0.087 0.087

#### GENE1193X

mean 0.3024 -0.0842

std. dev. 0.6885 1.0413

weight sum 23 57

precision 0.0696 0.0696

#### GENE1194X

mean 0.6519 0.1794

std. dev. 0.8486 1.2331

weight sum 22 70

precision 0.081 0.081

#### GENE1195X

mean 0.3189 0.0176

std. dev. 0.4264 0.6965

weight sum 23 71

precision 0.0569 0.0569

#### GENE1196X

mean 0.3416 -0.0066

std. dev. 0.6302 1.0522

weight sum 23 72

precision 0.0677 0.0677

#### GENE1197X

mean 0.2903 0.0534

std. dev. 0.5506 0.8751

weight sum 23 72

precision 0.063 0.063

#### GENE1198X

mean 0.3407 -0.0614

std. dev. 0.4429 0.5745

weight sum 23 70

precision 0.0448 0.0448

#### GENE1199X

mean 0.0981 0.0703

std. dev. 0.3832 0.6349

weight sum 23 71

precision 0.0403 0.0403

#### GENE1200X

mean 0.0573 0.1141

std. dev. 0.4074 0.5262

weight sum 23 69

precision 0.028 0.028

#### GENE1201X

mean -0.0681 0.1246

std. dev. 0.3187 0.6131

weight sum 23 70

precision 0.0423 0.0423

#### GENE1202X

mean -0.0615 0.1241

std. dev. 0.3991 0.565

weight sum 22 66

precision 0.0366 0.0366

#### GENE1203X

mean 0.0506 0.2129

std. dev. 0.4985 0.8428

weight sum 23 71

precision 0.0485 0.0485

#### GENE1204X

mean 0.1469 0.2953

std. dev. 0.3018 1.0264

weight sum 23 71

precision 0.0582 0.0582

#### GENE1205X

mean 0.0662 0.0864

std. dev. 0.3805 0.5954

weight sum 23 72

precision 0.0435 0.0435

#### GENE1206X

mean 0.3797 -0.114

std. dev. 0.6208 0.892

weight sum 20 63



precision 0.069 0.069

#### GENE1207X

mean 0.656 -0.1077

std. dev. 0.802 0.781

weight sum 23 72

precision 0.052 0.052

#### GENE1208X

mean 0.6894 -0.0512

std. dev. 0.8665 0.806

weight sum 23 72

precision 0.0551 0.0551

#### GENE1209X

mean 0.6268 -0.2782

std. dev. 1.1239 1.1943

weight sum 23 71

precision 0.0833 0.0833

#### GENE1210X

mean 0.749 -0.2395

std. dev. 0.9348 1.1308

weight sum 23 71

precision 0.0727 0.0727

#### GENE1211X

mean 0.583 -0.1265

std. dev. 0.8358 0.8196

weight sum 23 72

precision 0.0642 0.0642

#### GENE1212X

mean 1.2434 -0.0799

std. dev. 0.8146 1.4976

weight sum 23 70

precision 0.0799 0.0799

#### GENE1213X

mean 1.2153 -0.1404

std. dev. 0.8951 1.6601

weight sum 23 69

precision 0.0932 0.0932

#### GENE1214X

mean 0.7042 -0.2122

std. dev. 1.1106 1.9885

weight sum 23 72

precision 0.1019 0.1019

#### GENE1215X

mean 0.7644 -0.1634

std. dev. 1.1935 1.5782

weight sum 23 67

precision 0.0829 0.0829

#### GENE1216X

mean 0.716 -0.1376

std. dev. 1.2357 1.5308

weight sum 22 69

precision 0.0772 0.0772

#### GENE1217X

mean 0.3195 -0.0211

std. dev. 0.7836 0.9626

weight sum 23 70

precision 0.0529 0.0529

#### GENE1218X

mean 0.1174 -0.047

std. dev. 0.686 0.9903

weight sum 20 61

precision 0.0652 0.0652

#### GENE1219X

mean 0.5123 -0.1751

std. dev. 0.7205 1.1933

weight sum 18 64

precision 0.0709 0.0709

#### GENE1220X

mean 0.5179 0.046

std. dev. 0.7337 0.9942

weight sum 23 72

precision 0.0581 0.0581

#### GENE1221X

mean 0.3648 0.0903

std. dev. 0.8994 1.2746

weight sum 23 72

precision 0.0823 0.0823

#### GENE1222X

mean 0.259 0.1197

std. dev. 0.7618 1.1041

weight sum 23 72

precision 0.0784 0.0784

#### GENE1223X

mean 0.4261 -0.1368

std. dev. 0.4903 0.814

weight sum 23 72

precision 0.0467 0.0467

#### GENE1224X

mean 0.4509 0.0891

std. dev. 0.909 1.2415

weight sum 23 72

precision 0.0648 0.0648

#### GENE1225X

mean 0.9905 -0.0942

std. dev. 1.0037 1.4216

weight sum 23 66

precision 0.0749 0.0749

#### GENE1226X

mean 0.7975 -0.1677

std. dev. 0.9413 1.2315

weight sum 23 70

precision 0.0641 0.0641

#### GENE1227X

mean 0.6265 -0.0539

std. dev. 1.2818 1.6336

weight sum 23 64

precision 0.0863 0.0863

#### GENE1230X

mean 0.0826 0.0156

std. dev. 0.4086 0.6401

weight sum 23 72

precision 0.0352 0.0352

#### GENE1229X

mean 0.1492 0.3137

std. dev. 0.7175 1.162

weight sum 23 69

precision 0.066 0.066

#### GENE1228X

mean 0.2749 0.2817

std. dev. 0.7114 1.1632

weight sum 23 71

precision 0.0687 0.0687

#### GENE1231X

mean 0.0828 0.1265

std. dev. 0.6565 1.1867

weight sum 23 71

precision 0.068 0.068

#### GENE1232X

mean 0.4804 -0.0581

std. dev. 0.5084 0.8944

weight sum 23 65

precision 0.0686 0.0686

#### GENE1233X

mean 0.406 -0.1343

std. dev. 0.6284 0.9023

weight sum 22 66

precision 0.0652 0.0652

#### GENE1234X

mean 0.3871 -0.0117

std. dev. 0.8177 0.9614

weight sum 22 64

precision 0.0681 0.0681

#### GENE1235X

mean 0.0343 0.0675

std. dev. 0.4612 0.7877

weight sum 20 60

precision 0.0686 0.0686

#### GENE1236X

mean 0.0165 0.0383

std. dev. 0.3379 0.5831

weight sum 20 69

precision 0.0472 0.0472

#### GENE1237X

mean 0.2299 0.067

std. dev. 0.5159 0.8368

weight sum 21 71

precision 0.068 0.068

#### GENE1238X

mean 0.0795 0.0574

std. dev. 0.3207 0.537

weight sum 22 68



precision 0.05 0.05

#### GENE1243X

mean -0.0546 0.0301

std. dev. 0.8954 1.176

weight sum 21 69

precision 0.0717 0.0717

#### GENE1242X

mean -0.0217 -0.0135

std. dev. 0.674 1.1357

weight sum 22 65

precision 0.0797 0.0797

#### GENE1244X

mean -0.0519 0.0276

std. dev. 0.5294 0.7981

weight sum 23 72

precision 0.0663 0.0663

#### GENE1245X

mean -0.0808 0.0312

std. dev. 0.5924 0.7492

weight sum 22 65

precision 0.0635 0.0635

#### GENE1246X

mean 0.0299 0.0779

std. dev. 0.5475 0.7783

weight sum 23 72

precision 0.0572 0.0572

#### GENE1247X

mean 0.1172 0.0841

std. dev. 0.5734 0.7456

weight sum 21 64

precision 0.0572 0.0572

#### GENE1248X

mean 0.0603 0.0127

std. dev. 0.3414 0.4262

weight sum 23 71

precision 0.0301 0.0301

#### GENE1241X

mean 0.1915 -0.0345

std. dev. 0.4271 0.5201

weight sum 22 64

precision 0.0394 0.0394

#### GENE1249X

mean -0.0093 0.0805

std. dev. 0.3764 0.5883

weight sum 23 70

precision 0.0357 0.0357

#### GENE1254X

mean 0.1845 -0.0236

std. dev. 0.8058 1.1766

weight sum 23 72

precision 0.0771 0.0771

#### GENE1250X

mean 0.4756 0.0645

std. dev. 1.1484 1.3553

weight sum 22 72

precision 0.0693 0.0693

#### GENE1251X

mean 1.1527 0.043

std. dev. 1.2412 1.2448

weight sum 23 72

precision 0.072 0.072

#### GENE1252X

mean 1.1457 0.1162

std. dev. 1.149 1.255

weight sum 23 72

precision 0.0775 0.0775

#### GENE1253X

mean 0.7385 -0.078

std. dev. 0.8855 0.9118

weight sum 23 69

precision 0.0527 0.0527

#### GENE1240X

mean 0.5842 -0.0627

std. dev. 0.6479 0.7504

weight sum 21 67

precision 0.0568 0.0568

#### GENE1185X

mean 0.0078 0.1311

std. dev. 0.3489 0.7093

weight sum 21 71

precision 0.0544 0.0544

#### GENE1186X

mean -0.0298 0.1262

std. dev. 0.3386 0.6708

weight sum 23 72

precision 0.0571 0.0571

#### GENE1187X

mean 0.0438 0.1653

std. dev. 0.4225 0.6944

weight sum 21 69

precision 0.0512 0.0512

#### GENE1335X

mean -0.0264 0.1865

std. dev. 0.337 0.6336

weight sum 23 72

precision 0.0466 0.0466

#### GENE324X

mean -0.0802 -0.0163

std. dev. 0.3294 0.6734

weight sum 23 72

precision 0.0419 0.0419

#### GENE323X

mean -0.1255 0.0093

std. dev. 0.4077 0.4541

weight sum 20 64

precision 0.0398 0.0398

#### GENE1290X

mean 0.0089 -0.1092

std. dev. 0.675 1.0299

weight sum 23 71

precision 0.0686 0.0686

#### GENE1291X

mean -0.1239 0.0745

std. dev. 0.678 0.9499

weight sum 23 70

precision 0.0695 0.0695

#### GENE1295X

mean 0.1803 -0.2534

std. dev. 0.6138 1.0384

weight sum 23 69

precision 0.056 0.056

#### GENE1294X

mean -0.1107 -0.04

std. dev. 0.4968 1.0966

weight sum 23 72

precision 0.067 0.067

#### GENE1293X

mean -0.1304 0.0147

std. dev. 0.5549 1.0917

weight sum 22 71

precision 0.0652 0.0652

#### GENE1292X

mean -0.0402 0.0358

std. dev. 0.5776 1.0416

weight sum 22 67

precision 0.0632 0.0632

#### GENE1300X

mean 0.0222 -0.0412

std. dev. 0.3332 0.6029

weight sum 23 71

precision 0.0465 0.0465

#### GENE1299X

mean 0.3309 -0.0749

std. dev. 0.5885 0.945

weight sum 21 67

precision 0.0772 0.0772

#### GENE1298X

mean 0.3578 -0.1012

std. dev. 0.5869 0.879

weight sum 20 58

precision 0.0675 0.0675

#### GENE1297X

mean 0.4744 -0.1256

std. dev. 0.4633 0.6517

weight sum 23 71

precision 0.0474 0.0474

#### GENE1296X

mean 0.4765 -0.1735

std. dev. 0.3575 0.5585

weight sum 23 65



precision 0.0399 0.0399

#### GENE1255X

mean 0.2389 0.0051

std. dev. 0.5321 0.6793

weight sum 21 70

precision 0.0448 0.0448

#### GENE1256X

mean -0.0519 -0.1151

std. dev. 1.0379 0.9691

weight sum 23 72

precision 0.0628 0.0628

#### GENE1257X

mean 0.1028 -0.052

std. dev. 0.7858 0.8835

weight sum 19 67

precision 0.0697 0.0697

#### GENE1182X

mean 0.1287 -0.011

std. dev. 0.3332 0.6524

weight sum 23 67

precision 0.0411 0.0411

#### GENE325X

mean 0.0295 0.0284

std. dev. 0.464 0.6508

weight sum 21 67

precision 0.0414 0.0414

#### GENE889X

mean 0.153 -0.0964

std. dev. 0.4989 0.8492

weight sum 23 72

precision 0.0469 0.0469

#### GENE890X

mean 0.0576 -0.1315

std. dev. 0.5093 0.8661

weight sum 23 72

precision 0.0631 0.0631

#### GENE891X

mean 0.0889 -0.131

std. dev. 0.5305 0.8308

weight sum 23 71

precision 0.0487 0.0487

#### GENE227X

mean 0.2502 -0.0583

std. dev. 0.3197 0.4314

weight sum 23 69

precision 0.0376 0.0376

#### GENE230X

mean 0.0212 0.033

std. dev. 0.4471 0.4442

weight sum 23 72

precision 0.0326 0.0326

#### GENE229X

mean 0.0869 -0.0116

std. dev. 0.4076 0.4556

weight sum 22 70

precision 0.0324 0.0324

#### GENE228X

mean 0.2422 -0.0689

std. dev. 0.4667 0.5288

weight sum 22 69

precision 0.0476 0.0476

#### GENE948X

mean 0.3406 -0.0144

std. dev. 0.6252 0.6371

weight sum 18 64

precision 0.0487 0.0487

#### GENE949X

mean 0.3587 -0.0439

std. dev. 0.612 0.585

weight sum 22 70

precision 0.0415 0.0415

#### GENE950X

mean 0.3088 -0.0135

std. dev. 0.6076 0.6198

weight sum 23 72

precision 0.0423 0.0423

#### GENE951X

mean 0.2943 -0.0615

std. dev. 0.5901 0.5963

weight sum 23 71

precision 0.0428 0.0428

#### GENE952X

mean 0.1103 -0.0133

std. dev. 0.4088 0.5193

weight sum 23 71

precision 0.0363 0.0363

#### GENE1192X

mean 0.7434 -0.052

std. dev. 1.0123 1.1764

weight sum 23 70

precision 0.0617 0.0617

#### GENE1262X

mean 0.2101 0.0482

std. dev. 0.701 0.8362

weight sum 22 57

precision 0.0722 0.0722

#### GENE1268X

mean 0.2825 0.0148

std. dev. 0.5525 0.4995

weight sum 22 66

precision 0.0444 0.0444

#### GENE1181X

mean -0.1122 -0.0037

std. dev. 0.8733 0.8686

weight sum 23 72

precision 0.0527 0.0527

#### GENE1180X

mean -0.1665 0.0038

std. dev. 1.0259 1.0396

weight sum 22 58

precision 0.0732 0.0732

#### GENE1179X

mean 0.1149 -0.1302

std. dev. 0.7127 0.9288

weight sum 23 72

precision 0.0629 0.0629

#### GENE1178X

mean 0.1438 -0.1144

std. dev. 0.8514 0.9726

weight sum 23 72

precision 0.0704 0.0704

#### GENE1177X

mean -0.3289 0.0214

std. dev. 0.6392 0.9842

weight sum 18 64

precision 0.0722 0.0722

#### GENE1176X

mean -0.0491 0.0134

std. dev. 0.57 0.9184

weight sum 22 69

precision 0.0771 0.0771

#### GENE1175X

mean -0.362 0.3039

std. dev. 0.8144 1.2536

weight sum 21 71

precision 0.0768 0.0768

#### GENE1174X

mean -0.5385 0.3281

std. dev. 0.9359 1.3662

weight sum 23 70

precision 0.0784 0.0784

#### GENE1173X

mean -0.3837 0.1615

std. dev. 1.2049 1.6531

weight sum 23 70

precision 0.0919 0.0919

#### GENE1172X

mean -0.4989 0.1499

std. dev. 1.265 1.658

weight sum 23 72

precision 0.0856 0.0856

#### GENE1171X

mean -0.3742 0.1034

std. dev. 1.1865 1.627

weight sum 23 70

precision 0.0804 0.0804

#### GENE1170X

mean -0.2488 0.1613

std. dev. 1.0825 1.5258

weight sum 22 71



precision 0.0842 0.0842

#### GENE1169X

mean 0.2158 -0.046

std. dev. 0.6061 1.0422

weight sum 23 70

precision 0.0671 0.0671

#### GENE1168X

mean 0.2778 -0.1613

std. dev. 0.7577 1.2696

weight sum 22 71

precision 0.0703 0.0703

#### GENE1167X

mean -0.096 -0.0704

std. dev. 0.6382 1.0707

weight sum 22 72

precision 0.0604 0.0604

#### GENE1166X

mean -0.0107 -0.0582

std. dev. 0.7499 0.999

weight sum 23 70

precision 0.0618 0.0618

#### GENE1165X

mean 0.0604 0.0509

std. dev. 0.6711 0.8121

weight sum 23 71

precision 0.0695 0.0695

#### GENE1164X

mean -0.0492 -0.0713

std. dev. 0.5921 0.929

weight sum 23 71

precision 0.0539 0.0539

#### GENE1155X

mean 0.3337 -0.046

std. dev. 0.6173 0.7447

weight sum 22 72

precision 0.0552 0.0552

#### GENE1285X

mean 0.0237 0.0636

std. dev. 0.398 0.5654

weight sum 23 72

precision 0.0453 0.0453

#### GENE1147X

mean -0.4017 0.2047

std. dev. 0.8224 0.8638

weight sum 20 65

precision 0.0613 0.0613

#### GENE1146X

mean -0.2404 0.1805

std. dev. 0.8094 0.8605

weight sum 23 70

precision 0.0507 0.0507

#### GENE1161X

mean 0.1111 0.0348

std. dev. 0.5176 0.7943

weight sum 23 72

precision 0.0511 0.0511

#### GENE1148X

mean 0.1106 0.0547

std. dev. 0.5013 0.4852

weight sum 23 71

precision 0.0318 0.0318

#### GENE1149X

mean 0.2788 -0.0231

std. dev. 0.3888 0.4642

weight sum 23 72

precision 0.0347 0.0347

#### GENE1150X

mean 0.4891 -0.1304

std. dev. 0.5914 0.8249

weight sum 23 72

precision 0.0423 0.0423

#### GENE1151X

mean 0.1855 0.0419

std. dev. 0.6773 0.6963

weight sum 23 72

precision 0.0391 0.0391

#### GENE1162X

mean -0.1398 0.3391

std. dev. 0.8764 1.0424

weight sum 23 69

precision 0.0804 0.0804

#### GENE1163X

mean -0.0483 0.2153

std. dev. 0.4359 0.6211

weight sum 21 60

precision 0.0676 0.0676

#### GENE54X

mean 0.1972 0.0024

std. dev. 0.3793 0.49

weight sum 20 70

precision 0.0415 0.0415

#### GENE1154X

mean 0.3068 -0.0759

std. dev. 0.5983 0.646

weight sum 23 72

precision 0.0455 0.0455

#### GENE1153X

mean 0.0333 0.072

std. dev. 0.6281 0.589

weight sum 23 72

precision 0.0365 0.0365

#### GENE1152X

mean 0.14 0.0118

std. dev. 0.6082 0.5955

weight sum 20 72

precision 0.05 0.05

#### GENE1821X

mean 0.3715 -0.1251

std. dev. 0.4598 0.4611

weight sum 23 70

precision 0.0358 0.0358

#### GENE1820X

mean 0.2107 -0.0713

std. dev. 1.2083 0.8499

weight sum 22 65

precision 0.0682 0.0682

#### GENE1834X

mean 0.1044 0.0291

std. dev. 0.4136 0.7427

weight sum 20 59

precision 0.0746 0.0746

#### GENE1833X

mean 0.1771 -0.0753

std. dev. 0.4876 0.533

weight sum 22 63

precision 0.0339 0.0339

#### GENE52X

mean -0.0361 0.0844

std. dev. 0.3868 0.3923

weight sum 23 72

precision 0.032 0.032

#### GENE92X

mean 0.0405 0.083

std. dev. 0.456 0.5014

weight sum 23 71

precision 0.0373 0.0373

#### GENE93X

mean 0.1029 -0.0157

std. dev. 0.3779 0.4566

weight sum 23 72

precision 0.0376 0.0376

#### GENE1087X

mean 0.131 -0.079

std. dev. 0.5888 0.6708

weight sum 21 62

precision 0.055 0.055

#### GENE1088X

mean 0.0496 0.0222

std. dev. 0.3815 0.4442

weight sum 23 68

precision 0.0335 0.0335

#### GENE3075X

mean 0.0827 0.0626

std. dev. 0.5316 0.6206

weight sum 23 72

precision 0.0388 0.0388

#### GENE3074X

mean 0.0931 0.0538

std. dev. 0.5195 0.4282

weight sum 23 70



precision 0.0319 0.0319

#### GENE1X

mean 0.094 -0.0685

std. dev. 0.3475 0.3653

weight sum 22 69

precision 0.0269 0.0269

#### GENE3030X

mean -0.0421 0.0182

std. dev. 0.3151 0.4886

weight sum 23 71

precision 0.0323 0.0323

#### GENE3029X

mean -0.0026 0.0627

std. dev. 0.3211 0.4345

weight sum 23 71

precision 0.0303 0.0303

#### GENE3100X

mean -0.0439 0.046

std. dev. 0.4383 0.4996

weight sum 23 65

precision 0.0361 0.0361

#### GENE3099X

mean -0.052 0.037

std. dev. 0.3993 0.3761

weight sum 20 65

precision 0.0273 0.0273

#### GENE3414X

mean 0.028 -0.0238

std. dev. 0.3507 0.3461

weight sum 23 72

precision 0.0238 0.0238

#### GENE3413X

mean 0.0396 -0.0238

std. dev. 0.291 0.4436

weight sum 20 64

precision 0.0317 0.0317

#### GENE3415X

mean 0.1268 -0.0581

std. dev. 0.5082 0.4061

weight sum 23 72

precision 0.0351 0.0351

#### GENE3532X

mean 0.0401 -0.0233

std. dev. 0.3356 0.4972

weight sum 20 64

precision 0.0382 0.0382

#### GENE3111X

mean -0.0169 0.1951

std. dev. 0.4386 0.5567

weight sum 23 72

precision 0.0389 0.0389

#### GENE3110X

mean 0.0343 0.1032

std. dev. 0.282 0.3857

weight sum 23 72

precision 0.0282 0.0282

#### GENE1027X

mean -0.057 0.0461

std. dev. 0.4978 0.4036

weight sum 23 72

precision 0.041 0.041

#### GENE1028X

mean 0.0202 0.0396

std. dev. 0.404 0.414

weight sum 23 64

precision 0.0422 0.0422

#### GENE1029X

mean 0.0658 0.0377

std. dev. 0.4692 0.3911

weight sum 23 58

precision 0.042 0.042

#### GENE3091X

mean 0.1037 -0.0606

std. dev. 0.3633 0.5277

weight sum 23 72

precision 0.045 0.045

#### GENE3090X

mean 0.161 -0.0318

std. dev. 0.3081 0.4288

weight sum 23 72

precision 0.0314 0.0314

#### GENE3089X

mean 0.1795 -0.0322

std. dev. 0.2479 0.3952

weight sum 23 71

precision 0.0297 0.0297

#### GENE1041X

mean 0.071 0.0092

std. dev. 0.4115 0.4887

weight sum 23 72

precision 0.0303 0.0303

#### GENE1040X

mean 0.1269 -0.0167

std. dev. 0.3619 0.5201

weight sum 23 70

precision 0.0417 0.0417

#### GENE1039X

mean 0.129 0.0335

std. dev. 0.5795 0.4342

weight sum 23 71

precision 0.028 0.028

#### GENE1038X

mean 0.0647 0.0295

std. dev. 0.4282 0.3764

weight sum 23 72

precision 0.0276 0.0276

#### GENE1037X

mean 0.3072 0.0131

std. dev. 0.356 0.3219

weight sum 21 63

precision 0.0266 0.0266

#### GENE1030X

mean 0.1336 -0.011

std. dev. 0.378 0.3524

weight sum 21 71

precision 0.027 0.027

#### GENE1042X

mean 0.0464 0.0177

std. dev. 0.3997 0.3749

weight sum 23 70

precision 0.0288 0.0288

#### GENE1026X

mean 0.0703 0.0425

std. dev. 0.4756 0.5539

weight sum 23 70

precision 0.0522 0.0522

#### GENE1025X

mean 0.0506 -0.0396

std. dev. 0.4352 0.6548

weight sum 23 69

precision 0.0581 0.0581

#### GENE1024X

mean -0.0676 -0.0324

std. dev. 0.4406 0.4078

weight sum 23 70

precision 0.042 0.042

#### GENE3078X

mean -0.0093 0.0488

std. dev. 0.3925 0.4155

weight sum 23 71

precision 0.0304 0.0304

#### GENE3081X

mean 0.0229 -0.023

std. dev. 0.3719 0.4064

weight sum 23 71

precision 0.0277 0.0277

#### GENE3468X

mean 0.1713 0.0312

std. dev. 0.3401 0.4641

weight sum 21 65

precision 0.0327 0.0327

#### GENE1133X

mean -0.0035 -0.0399

std. dev. 0.3041 0.4558

weight sum 23 72

precision 0.0404 0.0404

#### GENE1134X

mean -0.0207 0.0037

std. dev. 0.3841 0.3917

weight sum 23 72



precision 0.0264 0.0264

#### GENE3104X

mean -0.2094 0.2017

std. dev. 0.2559 0.4727

weight sum 22 71

precision 0.0297 0.0297

#### GENE3103X

mean 0.0519 0.0767

std. dev. 0.4912 0.5353

weight sum 18 64

precision 0.0584 0.0584

#### GENE3102X

mean 0.0753 -0.0361

std. dev. 0.4547 0.5318

weight sum 23 72

precision 0.0541 0.0541

#### GENE3101X

mean 0.0478 0.0052

std. dev. 0.2266 0.3228

weight sum 23 72

precision 0.025 0.025

#### GENE995X

mean 0.163 0.0106

std. dev. 0.3512 0.3734

weight sum 23 72

precision 0.0332 0.0332

#### GENE994X

mean 0.145 0.0041

std. dev. 0.3258 0.4512

weight sum 23 71

precision 0.049 0.049

#### GENE1157X

mean 0.0849 0.0065

std. dev. 0.3589 0.387

weight sum 23 70

precision 0.0325 0.0325

#### GENE1354X

mean 0.0663 0.0452

std. dev. 0.3865 0.4472

weight sum 23 72

precision 0.0346 0.0346

#### GENE1805X

mean 0.169 0.0086

std. dev. 0.5077 0.4065

weight sum 23 72

precision 0.0363 0.0363

#### GENE1158X

mean 0.2776 -0.014

std. dev. 0.3871 0.4333

weight sum 23 72

precision 0.0297 0.0297

#### GENE1159X

mean 0.3027 0.0082

std. dev. 0.4649 0.4979

weight sum 23 72

precision 0.0312 0.0312

#### GENE1160X

mean 0.1623 -0.0789

std. dev. 0.4057 0.5873

weight sum 23 69

precision 0.0504 0.0504

#### GENE1156X

mean 0.0317 -0.0088

std. dev. 0.4218 0.4305

weight sum 23 72

precision 0.0332 0.0332

#### GENE1116X

mean 0.1729 -0.0599

std. dev. 0.4644 0.4418

weight sum 22 72

precision 0.034 0.034

#### GENE1117X

mean 0.2092 -0.0379

std. dev. 0.4751 0.6152

weight sum 23 72

precision 0.0535 0.0535

#### GENE1118X

mean -0.0027 -0.1214

std. dev. 0.4641 0.729

weight sum 23 72

precision 0.062 0.062

#### GENE159X

mean 0.0159 0.0067

std. dev. 0.4084 0.4434

weight sum 23 71

precision 0.0365 0.0365

#### GENE2643X

mean 0.0402 0.0541

std. dev. 0.4728 0.4559

weight sum 22 72

precision 0.0276 0.0276

#### GENE1119X

mean -0.0664 0.0503

std. dev. 0.5239 0.48

weight sum 19 63

precision 0.0341 0.0341

#### GENE986X

mean 0.0979 -0.0113

std. dev. 0.4553 0.3862

weight sum 23 68

precision 0.0309 0.0309

#### GENE1086X

mean 0.2141 -0.0295

std. dev. 0.4893 0.5898

weight sum 22 59

precision 0.0645 0.0645

#### GENE1036X

mean -0.0185 -0.0479

std. dev. 0.5482 0.3815

weight sum 23 71

precision 0.0386 0.0386

#### GENE1837X

mean -0.0076 0.0828

std. dev. 0.4246 0.5264

weight sum 22 66

precision 0.042 0.042

#### GENE1855X

mean 0.0335 0.0089

std. dev. 0.4502 0.5139

weight sum 18 60

precision 0.0355 0.0355

#### GENE1831X

mean 0.027 -0.0186

std. dev. 0.367 0.4373

weight sum 22 71

precision 0.0331 0.0331

#### GENE1135X

mean 0.0973 0.0571

std. dev. 0.6942 0.5463

weight sum 23 72

precision 0.0361 0.0361

#### GENE1136X

mean -0.0338 0.0506

std. dev. 0.7282 0.6048

weight sum 22 72

precision 0.0372 0.0372

#### GENE1137X

mean -0.1732 0.0414

std. dev. 0.7209 0.6257

weight sum 23 72

precision 0.0372 0.0372

#### GENE1138X

mean -0.2077 0.0305

std. dev. 0.7665 0.7176

weight sum 23 70

precision 0.0464 0.0464

#### GENE22X

mean 0.0261 -0.0251

std. dev. 0.4205 0.4995

weight sum 23 68

precision 0.0462 0.0462

#### GENE21X

mean -0.4053 -0.0325

std. dev. 0.5612 0.5581

weight sum 17 65

precision 0.0503 0.0503

#### GENE20X

mean -0.3472 0.2283

std. dev. 0.8846 0.8349

weight sum 22 66



precision 0.0694 0.0694

#### GENE19X

mean -0.2925 0.0626

std. dev. 0.8489 0.8317

weight sum 23 72

precision 0.0585 0.0585

#### GENE18X

mean -0.2755 0.1426

std. dev. 0.9857 0.7713

weight sum 22 65

precision 0.0713 0.0713

#### GENE17X

mean -0.0224 -0.0806

std. dev. 0.3185 0.6011

weight sum 21 70

precision 0.0588 0.0588

#### GENE16X

mean 0.0343 -0.0121

std. dev. 0.4006 0.498

weight sum 22 67

precision 0.029 0.029

#### GENE15X

mean -0.0677 0.0593

std. dev. 0.5788 0.6562

weight sum 22 62

precision 0.0465 0.0465

#### GENE1832X

mean -0.1219 -0.0057

std. dev. 0.3124 0.4375

weight sum 21 68

precision 0.0351 0.0351

#### GENE59X

mean 0.0782 0.0459

std. dev. 0.4212 0.5044

weight sum 20 65

precision 0.0474 0.0474

#### GENE60X

mean 0.3036 0.2385

std. dev. 1.2539 1.0864

weight sum 21 67

precision 0.0787 0.0787

#### GENE61X

mean 0.1614 0.2481

std. dev. 1.3051 1.1248

weight sum 22 67

precision 0.0866 0.0866

#### GENE62X

mean 0.2848 0.1494

std. dev. 1.1449 1.0861

weight sum 23 72

precision 0.069 0.069

#### GENE1077X

mean 0.1006 -0.085

std. dev. 0.7041 0.6363

weight sum 23 69

precision 0.0413 0.0413

#### GENE1076X

mean 0.0045 -0.0786

std. dev. 0.3192 0.4317

weight sum 23 71

precision 0.0342 0.0342

#### GENE1075X

mean 0.1708 0.0289

std. dev. 0.4804 0.574

weight sum 23 68

precision 0.0446 0.0446

#### GENE85X

mean 0.0093 -0.0332

std. dev. 0.3841 0.4005

weight sum 23 69

precision 0.0306 0.0306

#### GENE3146X

mean 0.2278 -0.0701

std. dev. 0.4805 0.5723

weight sum 23 70

precision 0.0476 0.0476

#### GENE1065X

mean -0.0209 0.0548

std. dev. 0.2474 0.5049

weight sum 23 70

precision 0.0436 0.0436

#### GENE3148X

mean 0.2957 0.0404

std. dev. 0.7316 0.6519

weight sum 23 71

precision 0.0463 0.0463

#### GENE3147X

mean 0.3687 0.0323

std. dev. 0.747 0.5427

weight sum 22 69

precision 0.0429 0.0429

#### GENE3191X

mean -0.1174 0.0113

std. dev. 0.2885 0.386

weight sum 22 70

precision 0.0359 0.0359

#### GENE3208X

mean 0.2918 0.2249

std. dev. 1.5852 1.1611

weight sum 23 68

precision 0.0987 0.0987

#### GENE3988X

mean 0.3986 -0.0393

std. dev. 0.7603 0.8666

weight sum 22 70

precision 0.051 0.051

#### GENE3989X

mean 0.196 0.0418

std. dev. 0.5983 0.5906

weight sum 22 71

precision 0.0479 0.0479

#### GENE3990X

mean 0.0104 -0.0064

std. dev. 0.5961 0.496

weight sum 17 62

precision 0.0444 0.0444

#### GENE3987X

mean 0.3371 -0.072

std. dev. 0.636 0.5623

weight sum 23 72

precision 0.0373 0.0373

#### GENE3986X

mean 0.4086 -0.0837

std. dev. 0.5694 0.5234

weight sum 23 70

precision 0.034 0.034

#### GENE3985X

mean 0.4752 -0.0181

std. dev. 0.5284 0.5477

weight sum 23 71

precision 0.0429 0.0429

#### GENE933X

mean 0.1407 -0.0887

std. dev. 0.4887 0.5951

weight sum 23 69

precision 0.0437 0.0437

#### GENE932X

mean 0.1705 0.0109

std. dev. 0.6023 0.5654

weight sum 23 68

precision 0.0461 0.0461

#### GENE931X

mean 0.0452 0.0388

std. dev. 0.8088 0.7612

weight sum 23 72

precision 0.0473 0.0473

#### GENE1022X

mean 0.0416 0.0211

std. dev. 0.3095 0.479

weight sum 20 61

precision 0.0416 0.0416

#### GENE1021X

mean 0.1772 -0.0614

std. dev. 0.4485 0.405

weight sum 23 72

precision 0.0311 0.0311

#### GENE1020X

mean 0.209 -0.0595

std. dev. 0.4202 0.4102

weight sum 23 71



precision 0.0343 0.0343

#### GENE1019X

mean 0.3175 -0.0687

std. dev. 0.509 0.357

weight sum 18 62

precision 0.0355 0.0355

#### GENE1018X

mean 0.246 -0.0205

std. dev. 0.6001 0.5591

weight sum 23 69

precision 0.0456 0.0456

#### GENE1017X

mean 0.0494 -0.052

std. dev. 0.5004 0.6068

weight sum 23 72

precision 0.0421 0.0421

#### GENE1016X

mean 0.1219 0.0263

std. dev. 0.5735 0.6063

weight sum 18 63

precision 0.0414 0.0414

#### GENE1015X

mean 0.1314 0.0033

std. dev. 0.6019 0.621

weight sum 23 69

precision 0.0378 0.0378

#### GENE1043X

mean -0.1 0.0316

std. dev. 0.381 0.3449

weight sum 23 72

precision 0.0277 0.0277

#### GENE317X

mean 0.2333 0.0373

std. dev. 0.5099 0.4855

weight sum 22 72

precision 0.0336 0.0336

#### GENE316X

mean 0.287 0.0471

std. dev. 0.4802 0.4657

weight sum 23 72

precision 0.0297 0.0297

#### GENE45X

mean 0.1741 0.0142

std. dev. 0.4585 0.5925

weight sum 22 70

precision 0.0451 0.0451

#### GENE46X

mean 0.1446 0.0396

std. dev. 0.3801 0.5577

weight sum 23 71

precision 0.0426 0.0426

#### GENE971X

mean 0.2288 -0.0987

std. dev. 0.403 0.5011

weight sum 23 67

precision 0.0483 0.0483

#### GENE51X

mean 0.2194 -0.0327

std. dev. 0.3317 0.3925

weight sum 23 70

precision 0.0431 0.0431

#### GENE3965X

mean 0.5433 -0.2093

std. dev. 0.5135 0.6287

weight sum 23 67

precision 0.061 0.061

#### GENE3966X

mean 0.4719 -0.1775

std. dev. 0.5259 0.6936

weight sum 23 71

precision 0.0584 0.0584

#### GENE3967X

mean 0.3998 -0.159

std. dev. 0.4206 0.6066

weight sum 23 72

precision 0.046 0.046

#### GENE3968X

mean 0.4256 -0.1988

std. dev. 0.4568 0.6879

weight sum 23 70

precision 0.0439 0.0439

#### GENE83X

mean 0.2155 0.1928

std. dev. 0.798 0.9852

weight sum 23 70

precision 0.0762 0.0762

#### GENE82X

mean 0.0348 0.0498

std. dev. 0.3543 0.7238

weight sum 23 72

precision 0.0422 0.0422

#### GENE81X

mean 0.1751 -0

std. dev. 0.4114 0.6374

weight sum 23 66

precision 0.0327 0.0327

#### GENE84X

mean 0.141 -0.0017

std. dev. 0.373 0.3885

weight sum 21 65

precision 0.0361 0.0361

#### GENE35X

mean 0.0378 0.013

std. dev. 0.232 0.3886

weight sum 23 72

precision 0.0322 0.0322

#### GENE36X

mean 0.0829 0.0528

std. dev. 0.3453 0.376

weight sum 23 71

precision 0.0334 0.0334

#### GENE37X

mean -0.1171 0.1009

std. dev. 0.4047 0.5018

weight sum 22 70

precision 0.039 0.039

#### GENE38X

mean 0.0114 0.1024

std. dev. 0.3605 0.4354

weight sum 23 70

precision 0.0329 0.0329

#### GENE157X

mean 0.0818 -0.0169

std. dev. 0.4268 0.3628

weight sum 23 72

precision 0.0348 0.0348

#### GENE156X

mean 0.0281 -0.0038

std. dev. 0.4042 0.3734

weight sum 23 72

precision 0.0249 0.0249

#### GENE965X

mean 0.1298 -0.0193

std. dev. 0.3336 0.5596

weight sum 22 69

precision 0.0381 0.0381

#### GENE158X

mean 0.1078 -0.0006

std. dev. 0.3585 0.4758

weight sum 23 71

precision 0.0435 0.0435

#### GENE936X

mean 0.1197 -0.0444

std. dev. 0.602 0.4851

weight sum 22 64

precision 0.0411 0.0411

#### GENE937X

mean 0.2759 -0.0768

std. dev. 0.6252 0.496

weight sum 22 68

precision 0.0446 0.0446

#### GENE938X

mean 0.7637 -0.2427

std. dev. 0.8348 0.7031

weight sum 23 69

precision 0.0587 0.0587

#### GENE939X

mean 0.7255 -0.3241

std. dev. 1.1881 1.0621

weight sum 23 61



precision 0.0907 0.0907

#### GENE940X

mean 0.3739 -0.0436

std. dev. 0.9454 0.4941

weight sum 22 67

precision 0.0531 0.0531

#### GENE941X

mean 0.5311 -0.0597

std. dev. 0.9346 0.5475

weight sum 20 58

precision 0.0597 0.0597

#### GENE942X

mean 0.4487 -0.0986

std. dev. 0.59 0.5195

weight sum 23 68

precision 0.0593 0.0593

#### GENE943X

mean 0.3193 -0.1575

std. dev. 1.1234 1.0737

weight sum 23 71

precision 0.0835 0.0835

#### GENE944X

mean 0.3166 -0.1725

std. dev. 1.1664 1.2007

weight sum 23 66

precision 0.0837 0.0837

#### GENE945X

mean 0.3855 -0.3327

std. dev. 0.7425 0.7693

weight sum 23 72

precision 0.0551 0.0551

#### GENE946X

mean 0.4143 -0.1462

std. dev. 0.6676 0.5627

weight sum 23 70

precision 0.0469 0.0469

#### GENE947X

mean 0.5973 -0.0441

std. dev. 0.6135 0.645

weight sum 23 66

precision 0.0501 0.0501

#### GENE4021X

mean 0.8859 -0.0377

std. dev. 1.2736 0.9734

weight sum 21 58

precision 0.0782 0.0782

#### GENE4020X

mean 0.9296 0.0281

std. dev. 1.2926 0.9495

weight sum 23 65

precision 0.0652 0.0652

#### GENE173X

mean 0.2406 0.0047

std. dev. 0.462 0.4831

weight sum 23 72

precision 0.0376 0.0376

#### GENE3932X

mean 0.4269 -0.1538

std. dev. 0.4343 0.5031

weight sum 23 70

precision 0.0396 0.0396

#### GENE1353X

mean 0.3027 -0.0904

std. dev. 0.623 0.3858

weight sum 23 70

precision 0.0452 0.0452

#### GENE163X

mean 0.06 -0.0041

std. dev. 0.2741 0.4648

weight sum 21 69

precision 0.035 0.035

#### GENE175X

mean 0.074 -0.1108

std. dev. 0.43 0.5413

weight sum 23 69

precision 0.0334 0.0334

#### GENE90X

mean -0.0769 0.1118

std. dev. 0.3316 0.4545

weight sum 23 72

precision 0.0316 0.0316

#### GENE91X

mean 0.0742 0.0312

std. dev. 0.3455 0.4525

weight sum 23 70

precision 0.0397 0.0397

#### GENE980X

mean 0.3515 0.0046

std. dev. 0.4419 0.5955

weight sum 23 72

precision 0.0366 0.0366

#### GENE981X

mean 0.9494 -0.1442

std. dev. 0.9159 1.076

weight sum 23 72

precision 0.0888 0.0888

#### GENE982X

mean 0.915 -0.049

std. dev. 0.9109 0.9955

weight sum 23 69

precision 0.0825 0.0825

#### GENE96X

mean 0.201 -0.0479

std. dev. 0.294 0.3934

weight sum 23 71

precision 0.0312 0.0312

#### GENE95X

mean 0.038 0.0588

std. dev. 0.4701 0.4053

weight sum 23 70

precision 0.0324 0.0324

#### GENE94X

mean 0.1145 -0.016

std. dev. 0.4181 0.4867

weight sum 23 72

precision 0.0371 0.0371

#### GENE170X

mean 0.0872 -0.0164

std. dev. 0.5149 0.588

weight sum 23 72

precision 0.0358 0.0358

#### GENE169X

mean 0.1712 0.0978

std. dev. 0.5168 0.5698

weight sum 23 72

precision 0.0334 0.0334

#### GENE168X

mean 0.3417 -0.1942

std. dev. 0.5382 0.5926

weight sum 23 72

precision 0.0482 0.0482

#### GENE187X

mean 0.5589 -0.0968

std. dev. 0.4007 0.5918

weight sum 22 62

precision 0.0484 0.0484

#### GENE974X

mean -0.0211 0.0054

std. dev. 0.3627 0.3032

weight sum 21 65

precision 0.0295 0.0295

#### GENE973X

mean 0.0584 -0.0042

std. dev. 0.4841 0.4415

weight sum 22 71

precision 0.0429 0.0429

#### GENE351X

mean -0.0486 0.0636

std. dev. 0.2947 0.38

weight sum 19 68

precision 0.037 0.037

#### GENE1034X

mean -0.0427 0.005

std. dev. 0.4097 0.3471

weight sum 20 70

precision 0.0267 0.0267

#### GENE1035X

mean 0.0415 0.0463

std. dev. 0.3576 0.3409

weight sum 23 72



precision 0.0222 0.0222

#### GENE174X

mean 0.1248 0.0704

std. dev. 0.5168 0.4928

weight sum 22 62

precision 0.0376 0.0376

#### GENE3371X

mean 0.2331 -0.032

std. dev. 0.8584 0.9768

weight sum 23 70

precision 0.0679 0.0679

#### GENE1079X

mean 0.2452 -0.014

std. dev. 0.3467 0.3666

weight sum 23 68

precision 0.0297 0.0297

#### GENE3611X

mean 0.0857 -0.1386

std. dev. 1.0486 0.9183

weight sum 23 64

precision 0.0758 0.0758

#### GENE3617X

mean 0.092 0.0333

std. dev. 0.5797 0.6768

weight sum 23 69

precision 0.0371 0.0371

#### GENE3612X

mean 0.228 0.0277

std. dev. 0.6017 0.8509

weight sum 23 72

precision 0.0433 0.0433

#### GENE3225X

mean 0.7995 0.1303

std. dev. 1.3799 1.1899

weight sum 22 61

precision 0.0771 0.0771

#### GENE3224X

mean 0.6784 0.0888

std. dev. 1.3723 1.1662

weight sum 22 60

precision 0.075 0.075

#### GENE3618X

mean 0.1631 -0.0542

std. dev. 0.8163 1.5149

weight sum 22 65

precision 0.0629 0.0629

#### GENE3619X

mean 0.6366 -0.0599

std. dev. 1.1932 1.2638

weight sum 22 61

precision 0.0677 0.0677

#### GENE3620X

mean 0.7005 0.0508

std. dev. 1.1996 1.0693

weight sum 23 71

precision 0.0601 0.0601

#### GENE3621X

mean 0.7915 -0.0971

std. dev. 0.8816 1.1086

weight sum 23 72

precision 0.0587 0.0587

#### GENE3622X

mean 0.4022 -0.5348

std. dev. 1.008 1.4308

weight sum 23 55

precision 0.0925 0.0925

#### GENE3623X

mean 0.3099 -0.0827

std. dev. 0.3098 0.4116

weight sum 22 68

precision 0.0306 0.0306

#### GENE3624X

mean 1.368 0.0519

std. dev. 1.6367 1.0773

weight sum 23 67

precision 0.0915 0.0915

#### GENE3625X

mean 1.1818 -0.0774

std. dev. 1.5855 1.0027

weight sum 23 71

precision 0.0931 0.0931

#### GENE3626X

mean 1.1949 -0.3181

std. dev. 1.2813 1.138

weight sum 23 71

precision 0.0804 0.0804

#### GENE3627X

mean 1.3474 -0.0876

std. dev. 1.2947 1.0836

weight sum 23 68

precision 0.0805 0.0805

#### GENE3628X

mean 0.3855 -0.0871

std. dev. 0.6367 0.4209

weight sum 23 69

precision 0.0414 0.0414

#### GENE3631X

mean 0.3572 -0.1098

std. dev. 0.6542 0.629

weight sum 23 71

precision 0.0527 0.0527

#### GENE3630X

mean 0.3865 -0.1462

std. dev. 0.5876 0.7686

weight sum 23 69

precision 0.0705 0.0705

#### GENE3935X

mean 0.1499 -0.1312

std. dev. 0.3704 0.3782

weight sum 22 71

precision 0.0363 0.0363

#### GENE1078X

mean 0.3687 0.1028

std. dev. 0.7728 0.7227

weight sum 19 62

precision 0.0483 0.0483

#### GENE3222X

mean 0.1658 -0.1016

std. dev. 0.5389 0.5209

weight sum 23 68

precision 0.0397 0.0397

#### GENE3223X

mean 0.3118 -0.0749

std. dev. 0.581 0.5955

weight sum 23 70

precision 0.0495 0.0495

#### GENE3372X

mean 0.1695 0.0368

std. dev. 0.4788 0.9505

weight sum 22 67

precision 0.0632 0.0632

#### GENE3373X

mean 0.0407 0.0083

std. dev. 0.4082 0.4814

weight sum 23 66

precision 0.039 0.039

#### GENE3609X

mean 0.1612 0.0201

std. dev. 0.4417 0.6434

weight sum 23 69

precision 0.0494 0.0494

#### GENE3610X

mean 0.0894 -0.0544

std. dev. 0.4483 0.6931

weight sum 23 71

precision 0.0501 0.0501

#### GENE190X

mean 0.1971 -0.0384

std. dev. 0.4438 0.4968

weight sum 23 72

precision 0.0333 0.0333

#### GENE968X

mean 0.3303 -0.2112

std. dev. 0.4606 0.6285

weight sum 22 69

precision 0.0404 0.0404

#### GENE967X

mean 0.339 -0.1609

std. dev. 0.3617 0.601

weight sum 23 70



precision 0.0377 0.0377

#### GENE972X

mean -0.0223 0.0015

std. dev. 0.275 0.376

weight sum 19 65

precision 0.0326 0.0326

#### GENE354X

mean 0.1856 0.0005

std. dev. 0.3345 0.4526

weight sum 20 64

precision 0.0334 0.0334

#### GENE353X

mean 0.1511 -0.1013

std. dev. 0.2918 0.4281

weight sum 23 70

precision 0.0344 0.0344

#### GENE200X

mean 0.0502 -0.0524

std. dev. 0.3363 0.4685

weight sum 23 66

precision 0.0385 0.0385

#### GENE196X

mean -0.0393 -0.1117

std. dev. 0.3767 0.5607

weight sum 19 62

precision 0.0393 0.0393

#### GENE197X

mean -0.0235 0.0236

std. dev. 0.2976 0.4267

weight sum 23 71

precision 0.0284 0.0284

#### GENE193X

mean 0.248 -0.2803

std. dev. 0.7739 0.9527

weight sum 21 66

precision 0.0554 0.0554

#### GENE983X

mean 0.1067 0.0614

std. dev. 0.4862 0.8696

weight sum 23 68

precision 0.0522 0.0522

#### GENE930X

mean 0.0353 -0.0491

std. dev. 0.3131 0.4617

weight sum 23 70

precision 0.0478 0.0478

#### GENE929X

mean -0.0497 0.0317

std. dev. 0.4295 0.4772

weight sum 23 72

precision 0.0369 0.0369

#### GENE928X

mean 0.0262 -0.0243

std. dev. 0.3811 0.3866

weight sum 23 72

precision 0.0302 0.0302

#### GENE208X

mean 0.2198 -0.0567

std. dev. 0.3668 0.3851

weight sum 22 66

precision 0.0353 0.0353

#### GENE220X

mean 0.2397 -0.0656

std. dev. 0.3992 0.4023

weight sum 18 62

precision 0.0351 0.0351

#### GENE219X

mean 0.0457 0.061

std. dev. 0.3917 0.4857

weight sum 22 69

precision 0.0386 0.0386

#### GENE218X

mean 0.1561 -0.1068

std. dev. 0.683 1.0153

weight sum 23 70

precision 0.0589 0.0589

#### GENE217X

mean 0.0596 -0.1655

std. dev. 0.6729 0.9509

weight sum 22 71

precision 0.057 0.057

#### GENE224X

mean 0.0834 0.0283

std. dev. 0.4333 0.5344

weight sum 23 72

precision 0.0392 0.0392

#### GENE222X

mean 0.6208 -0.3235

std. dev. 0.6417 0.8538

weight sum 18 62

precision 0.0694 0.0694

#### GENE221X

mean 0.4486 -0.1556

std. dev. 0.4541 0.5377

weight sum 23 72

precision 0.0465 0.0465

#### GENE359X

mean -0.0155 0.051

std. dev. 0.5054 0.6282

weight sum 23 72

precision 0.0395 0.0395

#### GENE350X

mean -0.0042 0.062

std. dev. 0.5199 0.4722

weight sum 23 71

precision 0.0321 0.0321

#### GENE328X

mean 0.079 0.1969

std. dev. 0.4503 0.5741

weight sum 23 72

precision 0.0505 0.0505

#### GENE329X

mean 0.0932 0.2181

std. dev. 0.4884 0.6388

weight sum 23 72

precision 0.0438 0.0438

#### GENE337X

mean -0.0436 0.0826

std. dev. 0.2478 0.4308

weight sum 23 70

precision 0.0402 0.0402

#### GENE335X

mean -0.0886 0.0316

std. dev. 0.2728 0.4127

weight sum 23 71

precision 0.034 0.034

#### GENE336X

mean -0.1109 0.067

std. dev. 0.382 0.5123

weight sum 23 69

precision 0.0432 0.0432

#### GENE308X

mean -0.0397 0.0871

std. dev. 0.4955 0.4124

weight sum 23 72

precision 0.0295 0.0295

#### GENE330X

mean 0.1102 0.2142

std. dev. 0.6874 0.6787

weight sum 23 66

precision 0.0488 0.0488

#### GENE331X

mean 0.0864 0.205

std. dev. 0.6562 0.6644

weight sum 23 71

precision 0.0462 0.0462

#### GENE332X

mean -0.0159 0.0815

std. dev. 0.3402 0.4138

weight sum 23 70

precision 0.0281 0.0281

#### GENE333X

mean 0.1051 0.0271

std. dev. 0.4912 0.4723

weight sum 22 71

precision 0.0356 0.0356

#### GENE338X

mean 0.1691 -0.0649

std. dev. 0.2743 0.5806

weight sum 22 71



precision 0.0555 0.0555

#### GENE339X

mean 0.0519 -0.045

std. dev. 0.417 0.6416

weight sum 23 72

precision 0.0568 0.0568

#### GENE910X

mean 0.0614 0.0018

std. dev. 0.304 0.3758

weight sum 23 70

precision 0.0314 0.0314

#### GENE355X

mean 0.0276 0.0235

std. dev. 0.3785 0.5168

weight sum 23 71

precision 0.0334 0.0334

#### GENE367X

mean -0.0392 0.0428

std. dev. 0.3087 0.4134

weight sum 23 72

precision 0.0311 0.0311

#### GENE368X

mean -0.0222 0.0055

std. dev. 0.474 0.7108

weight sum 23 68

precision 0.0465 0.0465

#### GENE305X

mean 0.1274 0.0948

std. dev. 0.3208 0.5631

weight sum 23 72

precision 0.0401 0.0401

#### GENE908X

mean 0.1001 -0.0493

std. dev. 0.3639 0.5535

weight sum 23 66

precision 0.0397 0.0397

#### GENE907X

mean 0.2223 -0.0449

std. dev. 0.386 0.456

weight sum 21 65

precision 0.0343 0.0343

#### GENE966X

mean 0.1991 0.0965

std. dev. 0.3771 0.523

weight sum 22 70

precision 0.0308 0.0308

#### GENE906X

mean 0.1702 0.119

std. dev. 0.6276 0.7074

weight sum 22 71

precision 0.0457 0.0457

#### GENE905X

mean 0.5273 0.0226

std. dev. 0.6352 0.6683

weight sum 23 71

precision 0.0458 0.0458

#### GENE382X

mean 0.0053 0.0045

std. dev. 0.3525 0.6575

weight sum 23 72

precision 0.0408 0.0408

#### GENE901X

mean 0.1371 -0.1009

std. dev. 0.2938 0.5372

weight sum 23 71

precision 0.0478 0.0478

#### GENE902X

mean 0.2391 -0.0855

std. dev. 0.3777 0.42

weight sum 23 70

precision 0.0404 0.0404

#### GENE383X

mean 0.2773 -0.0755

std. dev. 0.4314 0.4918

weight sum 23 69

precision 0.0469 0.0469

#### GENE319X

mean 0.1846 -0.06

std. dev. 0.4509 0.444

weight sum 23 72

precision 0.0379 0.0379

#### GENE1531X

mean 0.3536 -0.0075

std. dev. 0.5492 0.4468

weight sum 23 62

precision 0.0518 0.0518

#### GENE1530X

mean 0.3328 -0.0387

std. dev. 0.3325 0.4874

weight sum 23 69

precision 0.0334 0.0334

#### GENE236X

mean 0.6 -0.1401

std. dev. 0.7425 0.8683

weight sum 23 71

precision 0.0438 0.0438

#### GENE235X

mean 0.2124 -0.0457

std. dev. 0.4399 0.5208

weight sum 23 70

precision 0.0421 0.0421

#### GENE887X

mean 0.1833 -0.0169

std. dev. 0.2974 0.3264

weight sum 22 71

precision 0.0255 0.0255

#### GENE888X

mean 0.1068 -0.0081

std. dev. 0.2866 0.3422

weight sum 23 71

precision 0.023 0.023

#### GENE897X

mean 0.3928 -0.2139

std. dev. 0.705 0.8807

weight sum 22 61

precision 0.0572 0.0572

#### GENE896X

mean 0.566 -0.4101

std. dev. 0.8481 1.2215

weight sum 23 66

precision 0.0735 0.0735

#### GENE3629X

mean 0.2897 -0.2437

std. dev. 0.393 0.6613

weight sum 23 70

precision 0.0473 0.0473

#### GENE165X

mean 0.0284 -0.0432

std. dev. 0.2501 0.4155

weight sum 23 72

precision 0.0502 0.0502

#### GENE423X

mean 0.081 -0.0124

std. dev. 0.3613 0.6423

weight sum 21 60

precision 0.0532 0.0532

#### GENE415X

mean 0.0819 0.0177

std. dev. 0.308 0.4751

weight sum 23 70

precision 0.0459 0.0459

#### GENE895X

mean 0.4629 -0.078

std. dev. 0.425 0.5042

weight sum 23 66

precision 0.0348 0.0348

#### GENE373X

mean 0.3635 -0.0649

std. dev. 0.3584 0.4589

weight sum 23 72

precision 0.0577 0.0577

#### GENE856X

mean 0.2351 -0.1122

std. dev. 0.4078 0.545

weight sum 22 70

precision 0.0332 0.0332

#### GENE863X

mean 0.2467 -0.0633

std. dev. 0.4013 0.439

weight sum 23 71



precision 0.042 0.042

#### GENE862X

mean 0.3111 -0.0756

std. dev. 0.3629 0.6592

weight sum 22 70

precision 0.0535 0.0535

#### GENE861X

mean 0.0851 -0.0371

std. dev. 0.4052 0.8275

weight sum 22 57

precision 0.0814 0.0814

#### GENE860X

mean 0.0975 -0.0967

std. dev. 0.3881 0.8053

weight sum 23 58

precision 0.0449 0.0449

#### GENE859X

mean 0.0643 -0.1496

std. dev. 0.3597 0.7419

weight sum 23 63

precision 0.0423 0.0423

#### GENE554X

mean 0.3066 0.033

std. dev. 0.4126 0.695

weight sum 23 72

precision 0.0365 0.0365

#### GENE489X

mean 0.3535 -0.093

std. dev. 0.515 0.7273

weight sum 23 72

precision 0.0462 0.0462

#### GENE488X

mean 0.2899 -0.1246

std. dev. 0.4721 0.7595

weight sum 23 72

precision 0.0501 0.0501

#### GENE881X

mean 0.3646 -0.039

std. dev. 0.5672 0.7124

weight sum 23 71

precision 0.0426 0.0426

#### GENE871X

mean 0.1954 -0.1322

std. dev. 0.3596 0.4706

weight sum 23 71

precision 0.0285 0.0285

#### GENE867X

mean -0.0494 -0.0417

std. dev. 0.3214 0.6281

weight sum 23 71

precision 0.0344 0.0344

#### GENE868X

mean 0.0704 -0.1522

std. dev. 0.3925 0.5912

weight sum 23 67

precision 0.0344 0.0344

#### GENE869X

mean 0.2313 -0.2084

std. dev. 0.4065 0.5617

weight sum 23 71

precision 0.0375 0.0375

#### GENE858X

mean 0.1717 -0.0679

std. dev. 0.2802 0.3519

weight sum 20 65

precision 0.0307 0.0307

#### GENE403X

mean 0.1095 -0.2366

std. dev. 0.3697 0.7111

weight sum 23 71

precision 0.036 0.036

#### GENE848X

mean 0.279 -0.1674

std. dev. 0.4943 0.569

weight sum 23 70

precision 0.0358 0.0358

#### GENE850X

mean 0.1944 0.0132

std. dev. 0.4271 0.6308

weight sum 23 71

precision 0.0376 0.0376

#### GENE491X

mean 0.5123 -0.2287

std. dev. 0.741 1.1897

weight sum 23 71

precision 0.0755 0.0755

#### GENE490X

mean 0.6193 -0.1804

std. dev. 0.8193 1.2343

weight sum 23 71

precision 0.0843 0.0843

#### GENE826X

mean 0.0718 0.0028

std. dev. 0.32 0.5243

weight sum 23 71

precision 0.0337 0.0337

#### GENE446X

mean 0.3697 -0.1902

std. dev. 0.3856 0.6076

weight sum 22 68

precision 0.0565 0.0565

#### GENE447X

mean 0.2688 -0.1459

std. dev. 0.4748 0.615

weight sum 23 71

precision 0.0426 0.0426

#### GENE448X

mean 0.3186 -0.0842

std. dev. 0.3921 0.4669

weight sum 23 72

precision 0.0308 0.0308

#### GENE450X

mean 0.3855 -0.1887

std. dev. 0.5994 0.6327

weight sum 21 60

precision 0.0529 0.0529

#### GENE459X

mean 0.4358 -0.1

std. dev. 0.525 0.6372

weight sum 23 69

precision 0.0386 0.0386

#### GENE845X

mean 0.2488 -0.015

std. dev. 0.3606 0.524

weight sum 20 65

precision 0.0336 0.0336

#### GENE846X

mean 0.166 -0.0149

std. dev. 0.3862 0.5288

weight sum 23 71

precision 0.0424 0.0424

#### GENE452X

mean 0.1974 -0.0956

std. dev. 0.4134 0.5434

weight sum 23 70

precision 0.0468 0.0468

#### GENE453X

mean 0.092 -0.0129

std. dev. 0.3342 0.5288

weight sum 23 72

precision 0.0331 0.0331

#### GENE454X

mean 0.1157 -0.1006

std. dev. 0.2902 0.4456

weight sum 23 72

precision 0.035 0.035

#### GENE829X

mean 0.4961 -0.0941

std. dev. 0.5717 0.5649

weight sum 22 69

precision 0.047 0.047

#### GENE830X

mean 0.3518 -0.1394

std. dev. 0.5549 0.5879

weight sum 23 72

precision 0.0452 0.0452

#### GENE843X

mean 0.1309 -0.0826

std. dev. 0.3697 0.6106

weight sum 23 71



precision 0.0391 0.0391

#### GENE458X

mean 0.1925 -0.1414

std. dev. 0.5001 0.5179

weight sum 23 71

precision 0.0422 0.0422

#### GENE835X

mean 0.3504 -0.0472

std. dev. 0.5562 0.5646

weight sum 23 70

precision 0.0453 0.0453

#### GENE836X

mean 0.3149 -0.1257

std. dev. 0.4319 0.5795

weight sum 23 72

precision 0.0431 0.0431

#### GENE841X

mean 0.1761 -0.0567

std. dev. 0.3302 0.4994

weight sum 23 72

precision 0.0335 0.0335

#### GENE840X

mean 0.0852 -0.0666

std. dev. 0.3542 0.5173

weight sum 23 71

precision 0.037 0.037

#### GENE839X

mean 0.0759 -0.0815

std. dev. 0.3629 0.4934

weight sum 23 71

precision 0.0364 0.0364

#### GENE838X

mean 0.1547 -0.0767

std. dev. 0.2906 0.5443

weight sum 23 72

precision 0.0363 0.0363

#### GENE837X

mean 0.3485 -0.0134

std. dev. 0.4509 0.5037

weight sum 19 66

precision 0.0422 0.0422

#### GENE834X

mean 0.6228 -0.2355

std. dev. 0.622 0.8029

weight sum 23 72

precision 0.0506 0.0506

#### GENE833X

mean 0.2441 -0.4094

std. dev. 0.5496 0.9312

weight sum 20 64

precision 0.0561 0.0561

#### GENE832X

mean 0.2582 -0.1628

std. dev. 0.3286 0.546

weight sum 23 71

precision 0.0321 0.0321

#### GENE831X

mean 0.3814 -0.1499

std. dev. 0.6015 0.645

weight sum 23 70

precision 0.0573 0.0573

#### GENE564X

mean 0.2479 -0.0776

std. dev. 0.4845 0.7273

weight sum 23 72

precision 0.0383 0.0383

#### GENE457X

mean 0.1444 -0.0468

std. dev. 0.4197 0.4706

weight sum 23 71

precision 0.0284 0.0284

#### GENE892X

mean 0.0656 -0.0695

std. dev. 0.3606 0.5554

weight sum 22 69

precision 0.0314 0.0314

#### GENE893X

mean 0.0512 -0.0704

std. dev. 0.3596 0.6101

weight sum 23 72

precision 0.0453 0.0453

#### GENE894X

mean 0.1161 -0.0815

std. dev. 0.2385 0.4259

weight sum 23 72

precision 0.0311 0.0311

#### GENE842X

mean 0.1092 -0.0309

std. dev. 0.3099 0.7025

weight sum 23 72

precision 0.0474 0.0474

#### GENE259X

mean 0.2682 -0.0217

std. dev. 0.399 0.5514

weight sum 23 71

precision 0.0386 0.0386

#### GENE817X

mean 0.224 -0.0784

std. dev. 0.4375 0.5778

weight sum 23 72

precision 0.033 0.033

#### GENE819X

mean 0.1936 -0.0587

std. dev. 0.3592 0.5342

weight sum 23 69

precision 0.0445 0.0445

#### GENE307X

mean 0.1057 -0.0004

std. dev. 0.4415 0.5141

weight sum 23 72

precision 0.0316 0.0316

#### GENE306X

mean 0.1783 -0.0375

std. dev. 0.3314 0.5889

weight sum 23 66

precision 0.0387 0.0387

#### GENE818X

mean 0.2552 0.0163

std. dev. 0.5887 0.7706

weight sum 23 72

precision 0.051 0.051

#### GENE811X

mean 0.2698 -0.0757

std. dev. 0.4959 0.5182

weight sum 23 72

precision 0.0474 0.0474

#### GENE810X

mean 0.1888 -0.1117

std. dev. 0.3892 0.5242

weight sum 23 71

precision 0.0359 0.0359

#### GENE809X

mean 0.3861 -0.0184

std. dev. 0.4146 0.5204

weight sum 23 69

precision 0.0423 0.0423

#### GENE808X

mean 0.2471 0.0475

std. dev. 0.3183 0.4864

weight sum 23 72

precision 0.0371 0.0371

#### GENE807X

mean 0.2795 -0.0503

std. dev. 0.4135 0.522

weight sum 23 71

precision 0.0376 0.0376

#### GENE806X

mean 0.0741 0.015

std. dev. 0.2721 0.4276

weight sum 23 72

precision 0.0284 0.0284

#### GENE270X

mean 0.14 -0.0115

std. dev. 0.5217 0.7402

weight sum 21 70

precision 0.0474 0.0474

#### GENE267X

mean 0.0663 0.0611

std. dev. 0.3939 0.5477

weight sum 23 72



precision 0.0347 0.0347

#### GENE268X

mean 0.1684 0.0211

std. dev. 0.3 0.4213

weight sum 23 72

precision 0.0323 0.0323

#### GENE271X

mean -0.0813 0.1141

std. dev. 0.425 0.6235

weight sum 22 70

precision 0.0397 0.0397

#### GENE276X

mean 0.1931 0.1408

std. dev. 0.4507 0.7329

weight sum 23 72

precision 0.0431 0.0431

#### GENE275X

mean 0.1964 0.2127

std. dev. 0.4802 0.7396

weight sum 23 70

precision 0.0418 0.0418

#### GENE274X

mean 0.1529 0.0896

std. dev. 0.5709 0.7281

weight sum 23 72

precision 0.0414 0.0414

#### GENE273X

mean 0.1458 0.0512

std. dev. 0.548 0.7496

weight sum 23 70

precision 0.0459 0.0459

#### GENE272X

mean 0.1471 0.0794

std. dev. 0.5741 0.6903

weight sum 17 63

precision 0.05 0.05

#### GENE827X

mean 0.2699 0.0227

std. dev. 0.3962 0.5721

weight sum 22 71

precision 0.0383 0.0383

#### GENE828X

mean 0.2233 -0.0317

std. dev. 0.4678 0.5748

weight sum 23 71

precision 0.0401 0.0401

#### GENE283X

mean 0.0221 -0.0575

std. dev. 0.6086 0.618

weight sum 23 69

precision 0.0462 0.0462

#### GENE284X

mean 0.1648 0.0303

std. dev. 0.4317 0.4774

weight sum 23 72

precision 0.0316 0.0316

#### GENE285X

mean 0.0987 0.0257

std. dev. 0.4573 0.5314

weight sum 23 69

precision 0.0413 0.0413

#### GENE286X

mean 0.0749 0.0771

std. dev. 0.4739 0.4441

weight sum 23 72

precision 0.0319 0.0319

#### GENE287X

mean -0.0455 0.0017

std. dev. 0.4567 0.5218

weight sum 23 70

precision 0.0388 0.0388

#### GENE278X

mean 0.054 0.2191

std. dev. 0.6623 0.8048

weight sum 18 64

precision 0.0572 0.0572

#### GENE304X

mean 0.0715 0.0897

std. dev. 0.4377 0.5388

weight sum 23 70

precision 0.0374 0.0374

#### GENE866X

mean 0.0587 -0.0288

std. dev. 0.4053 0.5636

weight sum 23 72

precision 0.0329 0.0329

#### GENE802X

mean 0.2279 -0.0634

std. dev. 0.6148 0.8665

weight sum 23 71

precision 0.0495 0.0495

#### GENE804X

mean 0.4118 -0.2784

std. dev. 0.6283 0.7481

weight sum 22 72

precision 0.0506 0.0506

#### GENE857X

mean 0.286 -0.1017

std. dev. 0.3821 0.4494

weight sum 22 61

precision 0.0422 0.0422

#### GENE543X

mean 0.1111 -0.2116

std. dev. 0.5094 0.9303

weight sum 23 72

precision 0.0511 0.0511

#### GENE542X

mean 0.0761 -0.2784

std. dev. 0.4456 0.9643

weight sum 23 71

precision 0.0648 0.0648

#### GENE541X

mean 0.1217 -0.2586

std. dev. 0.4164 0.8957

weight sum 22 70

precision 0.0454 0.0454

#### GENE540X

mean 0.1914 -0.2352

std. dev. 0.4255 0.9476

weight sum 23 69

precision 0.0512 0.0512

#### GENE539X

mean 0.1673 -0.3452

std. dev. 0.5739 1.0015

weight sum 23 72

precision 0.052 0.052

#### GENE538X

mean 0.3237 -0.3478

std. dev. 0.5592 1.0279

weight sum 23 72

precision 0.0451 0.0451

#### GENE537X

mean 0.2228 -0.5688

std. dev. 0.5232 1.0796

weight sum 23 72

precision 0.0502 0.0502

#### GENE536X

mean 0.2749 -0.2997

std. dev. 0.7269 1.0297

weight sum 23 72

precision 0.058 0.058

#### GENE535X

mean 0.4558 -0.2067

std. dev. 0.707 0.9932

weight sum 23 71

precision 0.0617 0.0617

#### GENE487X

mean 0.2988 -0.1164

std. dev. 0.4859 0.6532

weight sum 23 72

precision 0.0368 0.0368

#### GENE799X

mean 0.4092 -0.038

std. dev. 0.7201 0.7147

weight sum 23 72

precision 0.0428 0.0428

#### GENE882X

mean 0.103 -0.1153

std. dev. 0.3029 0.5396

weight sum 22 70



precision 0.0412 0.0412

#### GENE883X

mean 0.1216 -0.1597

std. dev. 0.3482 0.563

weight sum 22 69

precision 0.0352 0.0352

#### GENE884X

mean 0.1237 -0.0879

std. dev. 0.2997 0.4636

weight sum 23 72

precision 0.0425 0.0425

#### GENE532X

mean 0.3204 -0.2027

std. dev. 0.5232 0.7166

weight sum 23 72

precision 0.0463 0.0463

#### GENE531X

mean 0.2653 -0.2604

std. dev. 0.4739 0.7427

weight sum 23 72

precision 0.0399 0.0399

#### GENE530X

mean 0.3983 -0.1884

std. dev. 0.4841 0.7052

weight sum 23 72

precision 0.0445 0.0445

#### GENE529X

mean 0.6428 -0.2707

std. dev. 0.6944 0.7847

weight sum 23 72

precision 0.048 0.048

#### GENE528X

mean 0.495 -0.3402

std. dev. 0.7409 0.8322

weight sum 23 70

precision 0.055 0.055

#### GENE560X

mean 0.3272 -0.2191

std. dev. 0.5348 0.7077

weight sum 23 65

precision 0.0579 0.0579

#### GENE534X

mean 0.4129 -0.1668

std. dev. 0.4951 0.6227

weight sum 23 69

precision 0.0448 0.0448

#### GENE533X

mean 0.2753 -0.1579

std. dev. 0.3752 0.6275

weight sum 23 72

precision 0.0446 0.0446

#### GENE479X

mean 0.6238 -0.0977

std. dev. 0.8209 0.6524

weight sum 23 72

precision 0.0558 0.0558

#### GENE480X

mean 0.5562 -0.1441

std. dev. 0.6751 0.7716

weight sum 23 72

precision 0.0576 0.0576

#### GENE481X

mean 0.255 -0.1287

std. dev. 0.5108 0.5628

weight sum 23 72

precision 0.0425 0.0425

#### GENE482X

mean 0.2985 -0.1544

std. dev. 0.5965 0.5687

weight sum 23 70

precision 0.0406 0.0406

#### GENE519X

mean 0.3403 -0.1287

std. dev. 0.4435 0.6844

weight sum 23 71

precision 0.0547 0.0547

#### GENE555X

mean 0.4255 -0.1332

std. dev. 0.3858 0.5801

weight sum 23 69

precision 0.0352 0.0352

#### GENE512X

mean 0.4556 -0.1779

std. dev. 0.3247 0.6084

weight sum 21 69

precision 0.0347 0.0347

#### GENE513X

mean 0.5004 -0.1845

std. dev. 0.356 0.6106

weight sum 23 66

precision 0.0372 0.0372

#### GENE514X

mean 0.3389 -0.1088

std. dev. 0.2652 0.4696

weight sum 23 72

precision 0.0346 0.0346

#### GENE515X

mean 0.3103 -0.1196

std. dev. 0.3653 0.54

weight sum 21 68

precision 0.0462 0.0462

#### GENE516X

mean 0.4311 -0.0667

std. dev. 0.4683 0.4929

weight sum 23 65

precision 0.0443 0.0443

#### GENE517X

mean 0.2789 -0.0571

std. dev. 0.3498 0.4184

weight sum 23 70

precision 0.0384 0.0384

#### GENE518X

mean 0.6457 -0.067

std. dev. 0.5624 0.6684

weight sum 23 71

precision 0.041 0.041

#### GENE526X

mean 0.4935 -0.3249

std. dev. 0.5248 0.9059

weight sum 21 71

precision 0.0617 0.0617

#### GENE527X

mean 0.5612 -0.3218

std. dev. 0.447 0.9545

weight sum 23 72

precision 0.0615 0.0615

#### GENE556X

mean 0.4063 -0.0778

std. dev. 0.3657 0.6331

weight sum 23 72

precision 0.035 0.035

#### GENE557X

mean 0.3177 -0.0947

std. dev. 0.3986 0.563

weight sum 23 70

precision 0.0355 0.0355

#### GENE558X

mean 0.4728 -0.17

std. dev. 0.4078 0.6681

weight sum 23 70

precision 0.0446 0.0446

#### GENE449X

mean 0.1657 -0.2084

std. dev. 0.3511 0.5213

weight sum 22 71

precision 0.0301 0.0301

#### GENE615X

mean 0.1625 -0.1353

std. dev. 0.4466 0.5448

weight sum 23 71

precision 0.0328 0.0328

#### GENE592X

mean 0.2408 -0.1171

std. dev. 0.3672 0.5361

weight sum 23 72

precision 0.0308 0.0308

#### GENE548X

mean 0.2703 -0.0386

std. dev. 0.4938 0.6273

weight sum 23 71



precision 0.0429 0.0429

#### GENE565X

mean 0.6557 -0.2429

std. dev. 0.603 0.8622

weight sum 23 71

precision 0.0491 0.0491

#### GENE559X

mean 0.2488 -0.1748

std. dev. 0.3579 0.5848

weight sum 23 71

precision 0.0372 0.0372

#### GENE561X

mean 0.2861 -0.3109

std. dev. 0.5324 0.8555

weight sum 23 67

precision 0.0604 0.0604

#### GENE562X

mean 0.2639 -0.1308

std. dev. 0.3715 0.6487

weight sum 23 71

precision 0.037 0.037

#### GENE663X

mean 0.4099 -0.1248

std. dev. 0.4049 0.7178

weight sum 23 72

precision 0.0441 0.0441

#### GENE563X

mean 0.2665 -0.1478

std. dev. 0.2946 0.6945

weight sum 23 72

precision 0.0344 0.0344

#### GENE614X

mean 0.2049 -0.1432

std. dev. 0.2081 0.4895

weight sum 23 71

precision 0.0371 0.0371

#### GENE613X

mean 0.1044 -0.1719

std. dev. 0.3436 0.5778

weight sum 21 71

precision 0.0318 0.0318

#### GENE612X

mean 0.1278 -0.1492

std. dev. 0.2747 0.5612

weight sum 23 72

precision 0.035 0.035

#### GENE611X

mean 0.8746 -0.5564

std. dev. 0.8442 1.388

weight sum 23 72

precision 0.0581 0.0581

#### GENE616X

mean 0.1757 -0.0661

std. dev. 0.4069 0.5668

weight sum 23 71

precision 0.0361 0.0361

#### GENE617X

mean 0.1511 -0.1017

std. dev. 0.4105 0.541

weight sum 23 72

precision 0.031 0.031

#### GENE599X

mean 0.4956 -0.2833

std. dev. 0.7398 0.9242

weight sum 23 69

precision 0.0551 0.0551

#### GENE600X

mean 0.2017 -0.0973

std. dev. 0.582 0.7693

weight sum 23 70

precision 0.0494 0.0494

#### GENE607X

mean 0.3604 -0.169

std. dev. 0.4994 0.6468

weight sum 23 69

precision 0.0482 0.0482

#### GENE608X

mean 0.3633 -0.131

std. dev. 0.5022 0.6988

weight sum 23 71

precision 0.041 0.041

#### GENE601X

mean 0.3504 0.0401

std. dev. 0.5727 0.979

weight sum 22 61

precision 0.0521 0.0521

#### GENE604X

mean 0.3606 -0.285

std. dev. 0.6246 0.8996

weight sum 23 72

precision 0.0605 0.0605

#### GENE603X

mean 0.4343 -0.1009

std. dev. 0.6283 0.9476

weight sum 23 72

precision 0.0534 0.0534

#### GENE602X

mean 0.3552 -0.0752

std. dev. 0.6023 0.947

weight sum 23 72

precision 0.0501 0.0501

#### GENE621X

mean 0.1358 -0.1

std. dev. 0.3807 0.7661

weight sum 23 70

precision 0.0538 0.0538

#### GENE622X

mean 0.3037 -0.2209

std. dev. 0.3162 0.5804

weight sum 23 72

precision 0.0395 0.0395

#### GENE630X

mean 0.2527 -0.2075

std. dev. 0.4885 0.737

weight sum 23 69

precision 0.0434 0.0434

#### GENE631X

mean 0.2511 -0.1951

std. dev. 0.4658 0.7695

weight sum 23 71

precision 0.0489 0.0489

#### GENE653X

mean 0.197 -0.5176

std. dev. 0.5243 1.2953

weight sum 23 72

precision 0.056 0.056

#### GENE652X

mean 0.3682 -0.5608

std. dev. 0.6613 1.2978

weight sum 23 71

precision 0.0588 0.0588

#### GENE651X

mean 0.4801 -0.3937

std. dev. 0.672 1.32

weight sum 23 72

precision 0.0549 0.0549

#### GENE650X

mean 0.2767 -0.2217

std. dev. 0.5741 0.9861

weight sum 23 72

precision 0.0475 0.0475

#### GENE649X

mean 0.5044 -0.1325

std. dev. 0.7121 1.0607

weight sum 23 71

precision 0.0535 0.0535

#### GENE648X

mean 0.5939 -0.1608

std. dev. 0.7042 1.1314

weight sum 23 72

precision 0.0579 0.0579

#### GENE647X

mean 0.4258 -0.3545

std. dev. 0.6615 1.0954

weight sum 23 72

precision 0.0612 0.0612

#### GENE646X

mean 0.463 -0.3463

std. dev. 0.5118 0.8788

weight sum 23 72



precision 0.052 0.052

#### GENE645X

mean 0.3326 -0.1893

std. dev. 0.437 0.6312

weight sum 23 72

precision 0.0464 0.0464

#### GENE644X

mean 0.288 -0.2616

std. dev. 0.7092 0.9661

weight sum 23 71

precision 0.0433 0.0433

#### GENE643X

mean 0.436 -0.309

std. dev. 0.6823 1.034

weight sum 23 72

precision 0.0576 0.0576

#### GENE642X

mean 0.6425 -0.5009

std. dev. 0.7517 1.3518

weight sum 23 72

precision 0.0678 0.0678

#### GENE641X

mean 0.2963 -0.2759

std. dev. 0.5913 0.8585

weight sum 23 72

precision 0.0483 0.0483

#### GENE640X

mean 0.2343 -0.1596

std. dev. 0.3621 0.6911

weight sum 23 72

precision 0.0445 0.0445

#### GENE639X

mean 0.4263 -0.3786

std. dev. 0.3235 0.8674

weight sum 23 71

precision 0.0478 0.0478

#### GENE633X

mean 0.3353 -0.2473

std. dev. 0.4213 0.8222

weight sum 23 67

precision 0.0479 0.0479

#### GENE632X

mean 0.2158 -0.3356

std. dev. 0.5003 0.8976

weight sum 23 72

precision 0.0501 0.0501

#### GENE638X

mean 0.4212 -0.241

std. dev. 0.5143 0.8727

weight sum 23 72

precision 0.047 0.047

#### GENE637X

mean 0.6627 -0.1831

std. dev. 0.5094 0.7749

weight sum 21 66

precision 0.0482 0.0482

#### GENE636X

mean 0.4633 -0.2855

std. dev. 0.4243 0.7318

weight sum 23 72

precision 0.0396 0.0396

#### GENE635X

mean 0.4866 -0.1506

std. dev. 0.3905 0.73

weight sum 23 72

precision 0.0432 0.0432

#### GENE634X

mean 0.4752 -0.1488

std. dev. 0.654 0.8184

weight sum 23 69

precision 0.0443 0.0443

#### GENE654X

mean 0.6198 -0.3148

std. dev. 0.4059 0.959

weight sum 18 63

precision 0.0507 0.0507

#### GENE655X

mean 0.5163 -0.3642

std. dev. 0.5811 0.9504

weight sum 23 71

precision 0.0514 0.0514

#### GENE656X

mean 0.4734 -0.2147

std. dev. 0.5773 0.9264

weight sum 23 72

precision 0.0514 0.0514

#### GENE657X

mean 0.4771 -0.164

std. dev. 0.7439 1.0485

weight sum 23 72

precision 0.0554 0.0554

#### GENE625X

mean 0.2745 -0.1687

std. dev. 0.4893 0.7681

weight sum 22 69

precision 0.0623 0.0623

#### GENE629X

mean 0.1098 -0.2271

std. dev. 0.4959 0.9198

weight sum 23 72

precision 0.0459 0.0459

#### GENE628X

mean 0.1782 -0.1825

std. dev. 0.6248 0.9462

weight sum 23 71

precision 0.0441 0.0441

#### GENE627X

mean 0.1446 -0.2123

std. dev. 0.5894 0.92

weight sum 22 69

precision 0.0521 0.0521

#### GENE626X

mean 0.4076 -0.1524

std. dev. 0.529 0.7781

weight sum 23 71

precision 0.0499 0.0499

#### GENE624X

mean 0.2113 -0.1266

std. dev. 0.5389 0.8896

weight sum 23 71

precision 0.0486 0.0486

#### GENE623X

mean 0.1325 -0.0083

std. dev. 0.5711 0.8409

weight sum 18 63

precision 0.0477 0.0477

#### GENE658X

mean 0.3498 -0.1657

std. dev. 0.5095 0.861

weight sum 23 63

precision 0.0452 0.0452

#### GENE619X

mean 0.3152 -0.1232

std. dev. 0.5887 0.6469

weight sum 23 70

precision 0.0417 0.0417

#### GENE620X

mean 0.2103 -0.1129

std. dev. 0.2693 0.4871

weight sum 23 70

precision 0.0393 0.0393

#### GENE661X

mean 0.2262 -0.0996

std. dev. 0.4325 0.6852

weight sum 21 72

precision 0.0432 0.0432

#### GENE660X

mean 0.3193 -0.164

std. dev. 0.4016 0.7459

weight sum 23 71

precision 0.0395 0.0395

#### GENE659X

mean 0.4148 -0.147

std. dev. 0.3791 0.8693

weight sum 23 69

precision 0.0604 0.0604

#### GENE662X

mean 0.5689 -0.198

std. dev. 0.4864 0.7212

weight sum 23 70



precision 0.0457 0.0457

#### GENE669X

mean 0.5859 -0.1797

std. dev. 0.8696 1.023

weight sum 23 70

precision 0.0596 0.0596

#### GENE673X

mean 0.122 -0.2014

std. dev. 0.6479 0.891

weight sum 23 59

precision 0.0597 0.0597

#### GENE674X

mean 0.4018 -0.1343

std. dev. 0.6387 0.9745

weight sum 23 70

precision 0.0537 0.0537

#### GENE675X

mean 0.4652 -0.2368

std. dev. 0.6745 1.1032

weight sum 23 69

precision 0.0575 0.0575

#### GENE676X

mean 0.4576 -0.2412

std. dev. 0.713 1.0126

weight sum 23 72

precision 0.0526 0.0526

#### GENE677X

mean 0.1659 -0.1305

std. dev. 0.4816 0.7123

weight sum 23 69

precision 0.0489 0.0489

#### GENE678X

mean 0.2667 -0.2511

std. dev. 0.6952 0.9211

weight sum 23 64

precision 0.0613 0.0613

#### GENE732X

mean 0.1679 -0.1309

std. dev. 0.5231 0.8507

weight sum 21 68

precision 0.056 0.056

#### GENE731X

mean 0.1643 -0.201

std. dev. 0.5199 0.9677

weight sum 23 67

precision 0.0444 0.0444

#### GENE730X

mean 0.1373 -0.238

std. dev. 0.6709 1.2308

weight sum 23 64

precision 0.0686 0.0686

#### GENE727X

mean 0.1757 -0.1738

std. dev. 0.457 0.7291

weight sum 23 70

precision 0.0435 0.0435

#### GENE686X

mean 0.3159 -0.2453

std. dev. 0.5972 0.9792

weight sum 23 69

precision 0.0478 0.0478

#### GENE687X

mean 0.6201 -0.1192

std. dev. 0.7367 0.9432

weight sum 23 68

precision 0.0526 0.0526

#### GENE688X

mean 0.5991 -0.1619

std. dev. 0.7228 1.1817

weight sum 23 70

precision 0.0569 0.0569

#### GENE680X

mean 0.2645 -0.0085

std. dev. 0.7086 1.1888

weight sum 22 57

precision 0.0693 0.0693

#### GENE679X

mean 0.1763 0.0194

std. dev. 0.7211 1.2406

weight sum 22 57

precision 0.0792 0.0792

#### GENE750X

mean 0.2467 -0.1404

std. dev. 0.7523 1.2098

weight sum 23 66

precision 0.063 0.063

#### GENE689X

mean 0.3548 -0.3822

std. dev. 0.4828 1.1752

weight sum 23 72

precision 0.0563 0.0563

#### GENE690X

mean 0.333 -0.4486

std. dev. 0.7371 1.2574

weight sum 23 65

precision 0.0672 0.0672

#### GENE696X

mean 0.3949 -0.2967

std. dev. 0.8071 1.1304

weight sum 23 61

precision 0.0704 0.0704

#### GENE695X

mean 0.4928 -0.2887

std. dev. 0.7683 1.2761

weight sum 23 65

precision 0.0751 0.0751

#### GENE694X

mean 0.42 -0.248

std. dev. 0.6116 1.2321

weight sum 23 70

precision 0.07 0.07

#### GENE693X

mean 0.3558 -0.0905

std. dev. 0.7215 1.2256

weight sum 23 63

precision 0.0731 0.0731

#### GENE698X

mean 0.3679 -0.2921

std. dev. 0.5728 1.1346

weight sum 23 70

precision 0.0568 0.0568

#### GENE697X

mean 0.2164 -0.3087

std. dev. 0.6647 1.2158

weight sum 22 56

precision 0.07 0.07

#### GENE712X

mean 0.4606 -0.432

std. dev. 0.6365 1.06

weight sum 23 67

precision 0.0535 0.0535

#### GENE711X

mean 0.3405 -0.4363

std. dev. 0.6337 1.0411

weight sum 23 70

precision 0.0602 0.0602

#### GENE710X

mean 0.275 -0.5535

std. dev. 0.5723 1.2599

weight sum 23 69

precision 0.0602 0.0602

#### GENE709X

mean 0.3144 -0.6028

std. dev. 0.5816 1.2041

weight sum 23 68

precision 0.0598 0.0598

#### GENE708X

mean 0.2298 -0.6943

std. dev. 0.5974 1.3961

weight sum 22 68

precision 0.0632 0.0632

#### GENE707X

mean 0.4982 -0.6654

std. dev. 0.8003 1.6848

weight sum 23 69

precision 0.0813 0.0813

#### GENE706X

mean 0.2755 -0.4645

std. dev. 0.639 1.3663

weight sum 22 64



precision 0.0722 0.0722

#### GENE705X

mean 0.5224 -0.6113

std. dev. 0.6657 1.3271

weight sum 20 61

precision 0.0626 0.0626

#### GENE704X

mean 0.481 -0.3681

std. dev. 0.73 1.379

weight sum 23 64

precision 0.0753 0.0753

#### GENE703X

mean 0.4107 -0.3137

std. dev. 0.5846 1.1396

weight sum 23 70

precision 0.0519 0.0519

#### GENE702X

mean 0.217 -0.3979

std. dev. 0.674 1.2045

weight sum 20 64

precision 0.0638 0.0638

#### GENE701X

mean 0.1171 -0.4081

std. dev. 0.5963 1.1973

weight sum 23 66

precision 0.0626 0.0626

#### GENE700X

mean 0.206 -0.4609

std. dev. 0.5992 1.2289

weight sum 22 59

precision 0.0581 0.0581

#### GENE699X

mean 0.5287 -0.4529

std. dev. 0.597 1.3282

weight sum 22 59

precision 0.0736 0.0736

#### GENE713X

mean 0.4314 -0.4123

std. dev. 0.5473 1.199

weight sum 23 71

precision 0.0548 0.0548

#### GENE714X

mean 0.2694 -0.3875

std. dev. 0.5156 1.0197

weight sum 23 71

precision 0.0488 0.0488

#### GENE715X

mean 0.3848 -0.5479

std. dev. 0.6013 1.1669

weight sum 21 61

precision 0.0612 0.0612

#### GENE716X

mean 0.437 -0.396

std. dev. 0.6874 1.0838

weight sum 23 67

precision 0.0584 0.0584

#### GENE717X

mean 0.4544 -0.2587

std. dev. 0.5974 1.02

weight sum 23 72

precision 0.0541 0.0541

#### GENE692X

mean 0.3476 -0.3226

std. dev. 0.7317 1.2497

weight sum 22 64

precision 0.0637 0.0637

#### GENE691X

mean 0.3225 -0.1898

std. dev. 0.5246 0.9079

weight sum 23 71

precision 0.0545 0.0545

#### GENE718X

mean 0.3395 -0.4207

std. dev. 0.5498 1.1691

weight sum 23 72

precision 0.0592 0.0592

#### GENE719X

mean 0.3194 -0.4706

std. dev. 0.5081 1.1888

weight sum 23 63

precision 0.0662 0.0662

#### GENE720X

mean 0.3354 -0.5095

std. dev. 0.596 1.0258

weight sum 23 67

precision 0.0576 0.0576

#### GENE721X

mean 0.317 -0.6111

std. dev. 0.5324 1.0911

weight sum 23 63

precision 0.0583 0.0583

#### GENE722X

mean 0.3433 -0.41

std. dev. 0.6813 0.9232

weight sum 22 64

precision 0.0559 0.0559

#### GENE723X

mean 0.4275 -0.5557

std. dev. 0.6569 1.4173

weight sum 23 66

precision 0.0718 0.0718

#### GENE724X

mean 0.1677 -0.259

std. dev. 0.7141 0.999

weight sum 21 56

precision 0.0691 0.0691

#### GENE725X

mean 0.4529 -0.4016

std. dev. 0.6251 1.0573

weight sum 23 66

precision 0.0516 0.0516

#### GENE685X

mean 0.347 -0.3331

std. dev. 0.8403 1.5048

weight sum 23 70

precision 0.0694 0.0694

#### GENE684X

mean 0.2608 -0.2336

std. dev. 0.6889 1.2897

weight sum 23 70

precision 0.0631 0.0631

#### GENE726X

mean 0.1451 -0.2612

std. dev. 0.8583 1.3021

weight sum 23 72

precision 0.0642 0.0642

#### GENE728X

mean 0.2113 -0.0952

std. dev. 0.4958 1.0314

weight sum 23 71

precision 0.0486 0.0486

#### GENE729X

mean 0.1283 -0.2197

std. dev. 0.7687 1.1133

weight sum 23 72

precision 0.0557 0.0557

#### GENE682X

mean 0.2046 -0.1733

std. dev. 0.4277 0.7613

weight sum 23 71

precision 0.0413 0.0413

#### GENE681X

mean 0.1706 -0.2769

std. dev. 0.3379 0.6521

weight sum 23 71

precision 0.0422 0.0422

#### GENE683X

mean 0.2031 -0.2613

std. dev. 0.6301 1.1457

weight sum 23 59

precision 0.0584 0.0584

#### GENE733X

mean 0.2498 -0.2708

std. dev. 0.3305 0.6487

weight sum 23 72

precision 0.0391 0.0391

#### GENE736X

mean 0.3783 -0.2607

std. dev. 0.5628 0.9362

weight sum 23 65



precision 0.0565 0.0565

#### GENE739X

mean 0.0275 -0.3869

std. dev. 0.6144 1.2409

weight sum 23 70

precision 0.0575 0.0575

#### GENE734X

mean 0.4118 -0.339

std. dev. 0.6677 1.0803

weight sum 23 72

precision 0.0541 0.0541

#### GENE735X

mean 0.1854 -0.3357

std. dev. 0.3472 0.7726

weight sum 23 68

precision 0.0458 0.0458

#### GENE742X

mean 0.116 -0.0276

std. dev. 0.4042 0.8523

weight sum 23 72

precision 0.0485 0.0485

#### GENE741X

mean 0.111 -0.1093

std. dev. 0.4238 0.912

weight sum 23 71

precision 0.0532 0.0532

#### GENE740X

mean -0.1056 0.0101

std. dev. 0.394 0.9099

weight sum 23 71

precision 0.0476 0.0476

#### GENE738X

mean 0.4285 -0.2919

std. dev. 0.6084 0.8464

weight sum 23 71

precision 0.046 0.046

#### GENE737X

mean 0.4435 -0.3166

std. dev. 0.5645 0.8546

weight sum 23 69

precision 0.0554 0.0554

#### GENE745X

mean 0.2087 -0.0267

std. dev. 0.4956 0.7196

weight sum 20 61

precision 0.048 0.048

#### GENE743X

mean 0.171 -0.1652

std. dev. 0.373 0.7272

weight sum 23 65

precision 0.0504 0.0504

#### GENE672X

mean 0.2318 -0.1673

std. dev. 0.5408 0.9992

weight sum 21 56

precision 0.0738 0.0738

#### GENE671X

mean 0.1955 -0.2029

std. dev. 0.6014 1.063

weight sum 23 59

precision 0.0725 0.0725

#### GENE670X

mean 0.3361 -0.3491

std. dev. 0.4955 0.8223

weight sum 23 65

precision 0.0499 0.0499

#### GENE609X

mean 0.5184 -0.1565

std. dev. 0.572 0.7384

weight sum 20 64

precision 0.0506 0.0506

#### GENE666X

mean 0.3024 -0.1308

std. dev. 0.4238 0.5555

weight sum 23 71

precision 0.0432 0.0432

#### GENE610X

mean 0.3929 -0.2376

std. dev. 0.3559 0.7254

weight sum 23 69

precision 0.0381 0.0381

#### GENE667X

mean 0.1337 -0.1794

std. dev. 0.538 0.9238

weight sum 23 60

precision 0.0569 0.0569

#### GENE668X

mean 0.2158 -0.1046

std. dev. 0.3511 0.5629

weight sum 21 69

precision 0.0349 0.0349

#### GENE598X

mean 0.339 -0.1009

std. dev. 0.2575 0.6056

weight sum 23 72

precision 0.0378 0.0378

#### GENE597X

mean 0.279 -0.0385

std. dev. 0.2707 0.5806

weight sum 23 71

precision 0.038 0.038

#### GENE596X

mean 0.1761 -0.1174

std. dev. 0.3049 0.6386

weight sum 23 69

precision 0.0488 0.0488

#### GENE595X

mean 0.2916 -0.0222

std. dev. 0.4082 0.9276

weight sum 23 68

precision 0.0486 0.0486

#### GENE594X

mean 0.1713 -0.1416

std. dev. 0.1992 0.4235

weight sum 17 64

precision 0.0364 0.0364

#### GENE593X

mean 0.4529 -0.2582

std. dev. 0.4453 0.7419

weight sum 23 72

precision 0.0415 0.0415

#### GENE605X

mean 0.5135 -0.2282

std. dev. 0.9228 1.1825

weight sum 23 69

precision 0.0787 0.0787

#### GENE606X

mean 0.3853 -0.203

std. dev. 0.7938 1.2317

weight sum 23 56

precision 0.0836 0.0836

#### GENE553X

mean 0.2165 -0.12

std. dev. 0.2882 0.5693

weight sum 23 71

precision 0.0449 0.0449

#### GENE584X

mean 0.2805 -0.0358

std. dev. 0.4577 0.685

weight sum 23 72

precision 0.0349 0.0349

#### GENE618X

mean 0.3668 -0.0531

std. dev. 0.7394 0.7736

weight sum 23 72

precision 0.0496 0.0496

#### GENE814X

mean 0.2415 -0.0728

std. dev. 0.4733 0.5146

weight sum 23 71

precision 0.0383 0.0383

#### GENE664X

mean 0.4711 -0.265

std. dev. 0.5229 0.7527

weight sum 18 64

precision 0.0573 0.0573

#### GENE591X

mean 0.2635 -0.0969

std. dev. 0.4045 0.7636

weight sum 17 64



precision 0.0521 0.0521

#### GENE580X

mean 0.3167 -0.0108

std. dev. 0.4543 0.619

weight sum 23 72

precision 0.0352 0.0352

#### GENE579X

mean 0.2914 -0.0811

std. dev. 0.4158 0.5935

weight sum 23 71

precision 0.0315 0.0315

#### GENE585X

mean 0.3685 -0.2202

std. dev. 0.3518 0.6273

weight sum 22 68

precision 0.0375 0.0375

#### GENE586X

mean 0.2883 -0.1139

std. dev. 0.5371 0.5992

weight sum 23 72

precision 0.0383 0.0383

#### GENE587X

mean 0.4015 -0.1399

std. dev. 0.4323 0.6065

weight sum 23 70

precision 0.0372 0.0372

#### GENE581X

mean 0.2317 -0.1102

std. dev. 0.3895 0.4878

weight sum 23 72

precision 0.0314 0.0314

#### GENE582X

mean 0.3499 -0.0463

std. dev. 0.4536 0.5335

weight sum 23 60

precision 0.0356 0.0356

#### GENE665X

mean 0.3611 -0.0994

std. dev. 0.4122 0.6512

weight sum 18 64

precision 0.0464 0.0464

#### GENE578X

mean 0.2547 -0.0649

std. dev. 0.4811 0.5282

weight sum 22 68

precision 0.0371 0.0371

#### GENE577X

mean 0.3362 -0.0551

std. dev. 0.5054 0.5025

weight sum 23 71

precision 0.042 0.042

#### GENE576X

mean 0.3345 -0.0618

std. dev. 0.6385 0.6539

weight sum 23 71

precision 0.0452 0.0452

#### GENE575X

mean 0.4297 -0.0199

std. dev. 0.6174 0.6278

weight sum 23 72

precision 0.0462 0.0462

#### GENE574X

mean 0.2714 -0.0453

std. dev. 0.6825 0.6126

weight sum 23 72

precision 0.0466 0.0466

#### GENE573X

mean 0.461 -0.0428

std. dev. 0.6394 0.7152

weight sum 23 72

precision 0.0467 0.0467

#### GENE567X

mean 0.4854 -0.1709

std. dev. 0.4897 0.6267

weight sum 23 71

precision 0.0423 0.0423

#### GENE568X

mean 0.4473 -0.0875

std. dev. 0.4707 0.5873

weight sum 23 71

precision 0.0463 0.0463

#### GENE569X

mean 0.4494 -0.1436

std. dev. 0.5259 0.6235

weight sum 23 71

precision 0.0476 0.0476

#### GENE566X

mean 0.3797 -0.0125

std. dev. 0.4386 0.4565

weight sum 23 71

precision 0.0404 0.0404

#### GENE812X

mean 0.3145 -0.0124

std. dev. 0.4423 0.6378

weight sum 23 72

precision 0.0387 0.0387

#### GENE813X

mean 0.2992 -0.0405

std. dev. 0.4432 0.6643

weight sum 18 63

precision 0.0472 0.0472

#### GENE760X

mean 0.2481 -0.1002

std. dev. 0.3285 0.5571

weight sum 23 72

precision 0.0408 0.0408

#### GENE764X

mean 0.2145 -0.0528

std. dev. 0.408 0.4433

weight sum 23 70

precision 0.0303 0.0303

#### GENE765X

mean 0.2838 -0.1257

std. dev. 0.4652 0.5423

weight sum 23 70

precision 0.0355 0.0355

#### GENE865X

mean 0.1817 -0.0526

std. dev. 0.598 0.6113

weight sum 23 72

precision 0.044 0.044

#### GENE766X

mean 0.1579 -0.1433

std. dev. 0.7112 1.0301

weight sum 23 66

precision 0.0685 0.0685

#### GENE791X

mean 0.1064 -0.1546

std. dev. 0.3835 0.6211

weight sum 23 72

precision 0.0395 0.0395

#### GENE572X

mean 0.3154 0.0865

std. dev. 0.5916 0.5698

weight sum 23 70

precision 0.0352 0.0352

#### GENE571X

mean 0.2558 0.0275

std. dev. 0.8005 1.0058

weight sum 23 70

precision 0.0521 0.0521

#### GENE570X

mean 0.5107 0.0268

std. dev. 0.8034 0.9284

weight sum 23 72

precision 0.0567 0.0567

#### GENE788X

mean 0.2716 -0.1983

std. dev. 0.4117 0.7819

weight sum 23 72

precision 0.0595 0.0595

#### GENE787X

mean 0.2772 -0.0885

std. dev. 0.5191 0.7322

weight sum 23 72

precision 0.0569 0.0569

#### GENE789X

mean 0.2285 0.0104

std. dev. 0.5193 0.6334

weight sum 23 71



precision 0.037 0.037

#### GENE790X

mean 0.2839 -0.1302

std. dev. 0.4324 0.6012

weight sum 17 62

precision 0.0386 0.0386

#### GENE767X

mean 0.1013 -0.1561

std. dev. 0.4247 0.839

weight sum 23 70

precision 0.0486 0.0486

#### GENE768X

mean 0.1397 -0.1662

std. dev. 0.4159 0.8225

weight sum 23 71

precision 0.0527 0.0527

#### GENE769X

mean 0.1595 -0.2321

std. dev. 0.4232 0.921

weight sum 23 71

precision 0.0622 0.0622

#### GENE770X

mean 0.1592 -0.145

std. dev. 0.456 0.8879

weight sum 23 70

precision 0.0555 0.0555

#### GENE771X

mean 0.055 -0.1389

std. dev. 0.4851 0.9421

weight sum 23 69

precision 0.0603 0.0603

#### GENE772X

mean 0.2351 0.0751

std. dev. 0.4385 0.7974

weight sum 23 72

precision 0.0398 0.0398

#### GENE773X

mean 0.3594 0.0969

std. dev. 0.6127 0.8878

weight sum 23 71

precision 0.0513 0.0513

#### GENE774X

mean 0.4984 0.0342

std. dev. 0.5731 0.7891

weight sum 23 70

precision 0.0451 0.0451

#### GENE775X

mean 0.4575 -0.038

std. dev. 0.6238 0.8064

weight sum 23 71

precision 0.0442 0.0442

#### GENE776X

mean 0.1131 -0.0029

std. dev. 0.3689 0.5885

weight sum 23 72

precision 0.0303 0.0303

#### GENE777X

mean 0.2273 -0.0737

std. dev. 0.5082 0.7476

weight sum 22 70

precision 0.0538 0.0538

#### GENE778X

mean 0.2319 -0.008

std. dev. 0.521 0.9067

weight sum 20 69

precision 0.0499 0.0499

#### GENE779X

mean 0.5136 -0.1198

std. dev. 0.6049 0.9206

weight sum 23 72

precision 0.0591 0.0591

#### GENE780X

mean 0.2084 -0.0569

std. dev. 0.5334 0.6867

weight sum 23 71

precision 0.0377 0.0377

#### GENE781X

mean 0.2425 -0.0331

std. dev. 0.5027 0.5135

weight sum 23 72

precision 0.0322 0.0322

#### GENE782X

mean 0.2857 -0.2133

std. dev. 0.6212 0.8532

weight sum 23 71

precision 0.0557 0.0557

#### GENE783X

mean 0.1507 0.0424

std. dev. 0.4805 0.9058

weight sum 23 71

precision 0.0413 0.0413

#### GENE786X

mean 0.1682 -0.0919

std. dev. 0.8246 1.2818

weight sum 23 72

precision 0.0624 0.0624

#### GENE785X

mean 0.3686 -0.006

std. dev. 0.6783 0.9418

weight sum 23 67

precision 0.0499 0.0499

#### GENE784X

mean 0.5147 0.0713

std. dev. 0.7285 0.9992

weight sum 23 71

precision 0.0452 0.0452

#### GENE792X

mean 0.1627 0.0914

std. dev. 0.4781 0.7592

weight sum 23 72

precision 0.0567 0.0567

#### GENE793X

mean 0.2453 0.0783

std. dev. 0.4351 0.8104

weight sum 23 72

precision 0.0705 0.0705

#### GENE794X

mean 0.1657 -0.0315

std. dev. 0.3402 0.5861

weight sum 23 72

precision 0.0385 0.0385

#### GENE795X

mean 0.2149 0.011

std. dev. 0.3726 0.5566

weight sum 23 71

precision 0.0412 0.0412

#### GENE796X

mean 0.1497 0.0635

std. dev. 0.4436 0.5617

weight sum 20 60

precision 0.0389 0.0389

#### GENE759X

mean 0.1424 0.0461

std. dev. 0.3926 0.5217

weight sum 23 72

precision 0.0415 0.0415

#### GENE758X

mean 0.3263 -0.0254

std. dev. 0.4386 0.5725

weight sum 23 72

precision 0.0373 0.0373

#### GENE757X

mean 0.1403 0.0844

std. dev. 0.7681 0.7483

weight sum 18 64

precision 0.0702 0.0702

#### GENE756X

mean 0.2554 -0.0165

std. dev. 0.4719 0.5998

weight sum 23 70

precision 0.0482 0.0482

#### GENE755X

mean 0.2583 -0.03

std. dev. 0.8338 1.126

weight sum 23 70

precision 0.0512 0.0512

#### GENE761X

mean 0.3395 -0.0239

std. dev. 0.344 0.5808

weight sum 23 72



precision 0.0441 0.0441

#### GENE762X

mean 0.1857 -0.2002

std. dev. 0.5593 0.8811

weight sum 23 64

precision 0.0689 0.0689

#### GENE583X

mean 0.4755 0.0404

std. dev. 0.7015 0.9073

weight sum 23 68

precision 0.0465 0.0465

#### GENE590X

mean 0.3339 -0.1361

std. dev. 0.4701 0.6041

weight sum 23 72

precision 0.04 0.04

#### GENE588X

mean 0.4047 -0.17

std. dev. 0.5062 0.773

weight sum 23 72

precision 0.0465 0.0465

#### GENE589X

mean 0.4586 -0.051

std. dev. 0.5293 0.7473

weight sum 23 72

precision 0.0422 0.0422

#### GENE551X

mean 0.3478 -0.0782

std. dev. 0.3372 0.5228

weight sum 23 72

precision 0.0423 0.0423

#### GENE552X

mean 0.2716 -0.1106

std. dev. 0.3516 0.5848

weight sum 23 71

precision 0.0434 0.0434

#### GENE475X

mean 0.2347 -0.0906

std. dev. 0.5128 0.5889

weight sum 23 70

precision 0.0409 0.0409

#### GENE476X

mean 0.4235 -0.0857

std. dev. 0.5843 0.7605

weight sum 23 71

precision 0.0507 0.0507

#### GENE503X

mean 0.3343 -0.1333

std. dev. 0.3671 0.4919

weight sum 18 61

precision 0.0459 0.0459

#### GENE474X

mean 0.2073 -0.0704

std. dev. 0.3277 0.4644

weight sum 22 72

precision 0.03 0.03

#### GENE546X

mean 0.3352 -0.1556

std. dev. 0.6707 1.0431

weight sum 23 72

precision 0.0602 0.0602

#### GENE545X

mean 0.3811 -0.079

std. dev. 0.847 0.9941

weight sum 23 72

precision 0.058 0.058

#### GENE525X

mean 0.2073 -0.1718

std. dev. 0.4372 0.6529

weight sum 22 67

precision 0.0434 0.0434

#### GENE524X

mean 0.8096 -0.126

std. dev. 0.9641 0.9443

weight sum 23 70

precision 0.0544 0.0544

#### GENE547X

mean 0.0063 -0.1985

std. dev. 0.4549 0.751

weight sum 23 71

precision 0.0486 0.0486

#### GENE523X

mean 0.1372 -0.0609

std. dev. 0.3612 0.6296

weight sum 23 71

precision 0.0451 0.0451

#### GENE505X

mean 0.4235 -0.0178

std. dev. 0.6059 0.6735

weight sum 23 69

precision 0.0492 0.0492

#### GENE521X

mean 0.2675 -0.1461

std. dev. 0.6366 0.6971

weight sum 23 72

precision 0.047 0.047

#### GENE500X

mean 0.5406 -0.1697

std. dev. 0.5077 0.7853

weight sum 23 71

precision 0.0486 0.0486

#### GENE501X

mean 0.4037 -0.2883

std. dev. 0.4988 0.8069

weight sum 22 64

precision 0.0491 0.0491

#### GENE763X

mean 0.2433 -0.1451

std. dev. 0.338 0.518

weight sum 23 72

precision 0.0391 0.0391

#### GENE510X

mean 0.2041 -0.0748

std. dev. 0.4422 0.6099

weight sum 23 69

precision 0.0427 0.0427

#### GENE511X

mean 0.1813 -0.1076

std. dev. 0.4695 0.5751

weight sum 23 71

precision 0.039 0.039

#### GENE508X

mean 0.2997 -0.1214

std. dev. 0.5337 0.6328

weight sum 23 71

precision 0.0454 0.0454

#### GENE509X

mean 0.2726 -0.0275

std. dev. 0.3669 0.4806

weight sum 21 67

precision 0.0377 0.0377

#### GENE507X

mean 0.1308 -0.0723

std. dev. 0.4217 0.6491

weight sum 23 71

precision 0.0401 0.0401

#### GENE506X

mean 0.3727 -0.2859

std. dev. 0.4346 0.8248

weight sum 23 70

precision 0.0487 0.0487

#### GENE880X

mean 0.14 0.0461

std. dev. 0.5301 0.6609

weight sum 23 72

precision 0.0335 0.0335

#### GENE879X

mean 0.229 -0.0053

std. dev. 0.4657 0.7126

weight sum 23 72

precision 0.0421 0.0421

#### GENE825X

mean 0.3062 -0.0564

std. dev. 0.6188 0.5354

weight sum 23 72

precision 0.0432 0.0432

#### GENE824X

mean 0.2555 0.0307

std. dev. 0.6278 0.5004

weight sum 23 70



precision 0.0405 0.0405

#### GENE815X

mean 0.2953 -0.0054

std. dev. 0.5191 0.5297

weight sum 23 72

precision 0.0323 0.0323

#### GENE823X

mean 0.054 0.0217

std. dev. 0.4775 0.5347

weight sum 23 72

precision 0.0355 0.0355

#### GENE822X

mean 0.2812 0.0722

std. dev. 0.4083 0.51

weight sum 23 72

precision 0.0363 0.0363

#### GENE821X

mean 0.1604 0.0458

std. dev. 0.3271 0.4033

weight sum 23 72

precision 0.0327 0.0327

#### GENE820X

mean 0.1292 0.0409

std. dev. 0.4347 0.4274

weight sum 21 68

precision 0.0348 0.0348

#### GENE800X

mean 0.0687 0.011

std. dev. 0.3784 0.5659

weight sum 23 72

precision 0.0416 0.0416

#### GENE798X

mean 0.2897 0.0191

std. dev. 0.4931 0.6891

weight sum 18 60

precision 0.0573 0.0573

#### GENE797X

mean 0.0581 -0.0084

std. dev. 0.3972 0.5795

weight sum 23 72

precision 0.0431 0.0431

#### GENE504X

mean 0.2836 0.0209

std. dev. 0.5997 0.9436

weight sum 22 71

precision 0.0511 0.0511

#### GENE499X

mean 0.3395 -0.0854

std. dev. 0.4718 0.5772

weight sum 18 62

precision 0.043 0.043

#### GENE502X

mean 0.2891 -0.1158

std. dev. 0.4017 0.6051

weight sum 21 63

precision 0.0453 0.0453

#### GENE522X

mean 0.2447 -0.0941

std. dev. 0.5294 1.0284

weight sum 23 72

precision 0.0521 0.0521

#### GENE801X

mean 0.1711 0.0015

std. dev. 0.3419 0.5519

weight sum 23 72

precision 0.0358 0.0358

#### GENE803X

mean 0.3857 -0.0222

std. dev. 0.636 0.7843

weight sum 21 59

precision 0.0596 0.0596

#### GENE549X

mean 0.1722 -0.0604

std. dev. 0.3364 0.459

weight sum 23 72

precision 0.03 0.03

#### GENE550X

mean 0.2716 -0.0884

std. dev. 0.2896 0.4783

weight sum 23 71

precision 0.0312 0.0312

#### GENE498X

mean 0.2605 -0.0353

std. dev. 0.3918 0.5864

weight sum 23 66

precision 0.0382 0.0382

#### GENE805X

mean 0.1907 -0.1478

std. dev. 0.3843 0.6369

weight sum 23 71

precision 0.041 0.041

#### GENE485X

mean 0.2801 -0.108

std. dev. 0.342 0.4863

weight sum 20 67

precision 0.0371 0.0371

#### GENE467X

mean 0.399 -0.1319

std. dev. 0.4634 0.7295

weight sum 23 70

precision 0.0574 0.0574

#### GENE468X

mean 0.1596 -0.0935

std. dev. 0.3124 0.6592

weight sum 23 72

precision 0.0408 0.0408

#### GENE466X

mean 0.1091 0.0122

std. dev. 0.3899 0.6169

weight sum 23 70

precision 0.0534 0.0534

#### GENE465X

mean 0.1456 0.041

std. dev. 0.3773 0.4877

weight sum 23 72

precision 0.036 0.036

#### GENE494X

mean 0.2605 -0.0184

std. dev. 0.585 0.6111

weight sum 23 72

precision 0.0413 0.0413

#### GENE495X

mean 0.173 -0.106

std. dev. 0.5436 0.6099

weight sum 22 68

precision 0.0448 0.0448

#### GENE496X

mean 0.1871 -0.064

std. dev. 0.3814 0.4783

weight sum 23 72

precision 0.0339 0.0339

#### GENE847X

mean 0.1085 -0.0132

std. dev. 0.2533 0.3438

weight sum 21 68

precision 0.0271 0.0271

#### GENE451X

mean 0.1136 0.0129

std. dev. 0.3756 0.5281

weight sum 23 72

precision 0.0358 0.0358

#### GENE854X

mean 0.3152 -0.034

std. dev. 0.4307 0.347

weight sum 23 72

precision 0.0345 0.0345

#### GENE484X

mean 0.4467 -0.1488

std. dev. 0.573 0.6703

weight sum 23 71

precision 0.0413 0.0413

#### GENE497X

mean 0.2122 -0.0553

std. dev. 0.3372 0.5467

weight sum 23 65

precision 0.0514 0.0514

#### GENE483X

mean 0.2444 -0.1402

std. dev. 0.4657 0.7516

weight sum 23 72



precision 0.0521 0.0521

#### GENE3601X

mean 0.267 -0.0614

std. dev. 0.3265 0.421

weight sum 23 72

precision 0.0307 0.0307

#### GENE486X

mean 0.2902 -0.0794

std. dev. 0.3528 0.4474

weight sum 23 72

precision 0.0342 0.0342

#### GENE3600X

mean 0.0958 -0.0561

std. dev. 0.2974 0.4422

weight sum 23 71

precision 0.0387 0.0387

#### GENE456X

mean 0.1835 -0.1885

std. dev. 0.4574 0.6877

weight sum 23 71

precision 0.0426 0.0426

#### GENE844X

mean 0.2531 -0.2481

std. dev. 0.4413 0.795

weight sum 23 72

precision 0.0498 0.0498

#### GENE455X

mean 0.3039 -0.1941

std. dev. 0.3533 0.6073

weight sum 23 72

precision 0.0357 0.0357

#### GENE849X

mean 0.321 -0.0774

std. dev. 0.6197 0.6435

weight sum 23 72

precision 0.0442 0.0442

#### GENE444X

mean 0.0638 -0.0711

std. dev. 0.3415 0.5174

weight sum 23 71

precision 0.0358 0.0358

#### GENE443X

mean 0.2435 -0.0851

std. dev. 0.413 0.5243

weight sum 23 71

precision 0.0487 0.0487

#### GENE445X

mean 0.2562 -0.0721

std. dev. 0.2976 0.469

weight sum 23 72

precision 0.0293 0.0293

#### GENE864X

mean 0.1402 -0.0301

std. dev. 0.4336 0.6625

weight sum 23 72

precision 0.0461 0.0461

#### GENE874X

mean 0.1284 -0.0977

std. dev. 0.3553 0.4493

weight sum 19 61

precision     0.04   0.04

#### GENE873X

mean           0.229 -0.1549

std. dev.     0.4151 0.6957

weight sum     23    71

precision     0.0516 0.0516

#### GENE872X

mean           0.2269 -0.0576

std. dev.     0.3821 0.5541

weight sum     23    70

precision     0.0424 0.0424

#### GENE3606X

mean           0.0025 -0.0695

std. dev.     0.3169 0.5163

weight sum     23    71

precision     0.0284 0.0284

#### GENE464X

mean           0.0246 -0.3015

std. dev.     0.5198 1.1411

weight sum     23    72

precision 0.0629 0.0629

#### GENE463X

mean -0.043 -0.1246

std. dev. 0.4903 1.1306

weight sum 23 62

precision 0.0618 0.0618

#### GENE462X

mean 0.0674 0.0347

std. dev. 0.6138 1.0062

weight sum 22 70

precision 0.0593 0.0593

#### GENE461X

mean -0.0559 0.0388

std. dev. 0.5176 0.7472

weight sum 23 71

precision 0.046 0.046

#### GENE460X

mean -0.1912 0.1001

std. dev. 0.407 0.7727

weight sum 23 71

precision 0.0602 0.0602

#### GENE3608X

mean -0.0529 0.0778

std. dev. 0.378 0.688

weight sum 23 72

precision 0.0487 0.0487

#### GENE442X

mean 0.1198 0.0037

std. dev. 0.3532 0.6348

weight sum 21 62

precision 0.0458 0.0458

#### GENE441X

mean 0.0689 -0.1482

std. dev. 0.2782 0.5914

weight sum 23 70

precision 0.048 0.048

#### GENE440X

mean 0.1199 -0.2289

std. dev. 0.4724 0.7739

weight sum 22 63

precision 0.0586 0.0586

#### GENE439X

mean 0.0376 0.0007

std. dev. 0.3918 0.6092

weight sum 23 69

precision 0.0456 0.0456

#### GENE438X

mean 0.1102 -0.0182

std. dev. 0.3721 0.6

weight sum 23 71

precision 0.0517 0.0517

#### GENE437X

mean 0.0873 -0.0325

std. dev. 0.4994 0.5827

weight sum 22 63

precision 0.0427 0.0427

#### GENE436X

mean 0.2347 -0.0639

std. dev. 0.6625 0.6767

weight sum 23 72

precision 0.0442 0.0442

#### GENE435X

mean 0.2802 -0.2664

std. dev. 0.4529 0.5138

weight sum 17 64

precision 0.0445 0.0445

#### GENE434X

mean 0.5104 -0.3783

std. dev. 0.7073 1.2263

weight sum 22 71

precision 0.0638 0.0638

#### GENE433X

mean 0.3046 -0.0251

std. dev. 0.4216 0.6171

weight sum 23 61

precision 0.0425 0.0425

#### GENE432X

mean 0.2975 0.0657

std. dev. 0.5694 0.6814

weight sum 23 68



precision 0.0456 0.0456

#### GENE431X

mean 0.09 -0.0244

std. dev. 0.5687 0.7235

weight sum 22 72

precision 0.045 0.045

#### GENE430X

mean 0.1166 0.1391

std. dev. 0.4486 0.6319

weight sum 23 72

precision 0.0358 0.0358

#### GENE429X

mean 0.0986 0.1435

std. dev. 0.7637 0.9174

weight sum 21 67

precision 0.0531 0.0531

#### GENE870X

mean 0.3539 -0.0436

std. dev. 0.5496 0.4615

weight sum 22 67

precision 0.0374 0.0374

#### GENE400X

mean 0.133 -0.0196

std. dev. 0.3402 0.549

weight sum 20 68

precision 0.0341 0.0341

#### GENE398X

mean 0.2276 -0.1992

std. dev. 0.5692 0.7578

weight sum 22 57

precision 0.0582 0.0582

#### GENE401X

mean 0.2066 -0.0383

std. dev. 0.3867 0.371

weight sum 23 69

precision 0.0311 0.0311

#### GENE851X

mean 0.0937 -0.0103

std. dev. 0.3886 0.3399

weight sum 23 72

precision 0.0257 0.0257

#### GENE852X

mean 0.1666 -0.0372

std. dev. 0.3622 0.3773

weight sum 21 69

precision 0.0245 0.0245

#### GENE853X

mean 0.2441 -0.0568

std. dev. 0.3614 0.3455

weight sum 23 72

precision 0.0372 0.0372

#### GENE388X

mean 0.3038 -0.0177

std. dev. 0.4213 0.4433

weight sum 23 72

precision 0.0283 0.0283

#### GENE399X

mean 0.3092 -0.0514

std. dev. 0.5056 0.6033

weight sum 23 68

precision 0.0397 0.0397

#### GENE520X

mean 0.6218 -0.1185

std. dev. 0.6277 0.5297

weight sum 22 71

precision 0.0543 0.0543

#### GENE397X

mean 0.1643 -0.0693

std. dev. 0.4593 0.6521

weight sum 22 70

precision 0.0476 0.0476

#### GENE396X

mean 0.153 -0.0551

std. dev. 0.2678 0.3633

weight sum 23 72

precision 0.0248 0.0248

#### GENE252X

mean 0.211 0.0982

std. dev. 0.5382 0.7092

weight sum 20 64

precision 0.0469 0.0469

#### GENE253X

mean 0.1807 0.195

std. dev. 0.5437 0.7113

weight sum 23 72

precision 0.0507 0.0507

#### GENE238X

mean 0.0454 0.0237

std. dev. 0.3469 0.3746

weight sum 23 69

precision 0.0327 0.0327

#### GENE239X

mean -0.013 -0.1056

std. dev. 0.3296 0.5531

weight sum 22 62

precision 0.0409 0.0409

#### GENE240X

mean 0.1367 0.0036

std. dev. 0.3953 0.6612

weight sum 22 69

precision 0.0493 0.0493

#### GENE241X

mean 0.0325 0.0054

std. dev. 0.3921 0.6789

weight sum 22 70

precision 0.0476 0.0476

#### GENE233X

mean 0.0755 0.0546

std. dev. 0.4378 0.9847

weight sum 23 61

precision 0.0724 0.0724

#### GENE234X

mean 0.1304 0.0644

std. dev. 0.49 0.9532

weight sum 23 67

precision 0.0732 0.0732

#### GENE249X

mean 0.0602 0.0453

std. dev. 0.3715 0.4862

weight sum 21 66

precision 0.0308 0.0308

#### GENE247X

mean 0.0354 0.0374

std. dev. 0.3929 0.4796

weight sum 23 63

precision 0.0407 0.0407

#### GENE248X

mean 0.0532 0.0339

std. dev. 0.3429 0.4382

weight sum 23 69

precision 0.0278 0.0278

#### GENE246X

mean 0.0817 0.0296

std. dev. 0.3113 0.6048

weight sum 21 63

precision 0.0505 0.0505

#### GENE250X

mean 0.1197 -0.0871

std. dev. 0.2165 0.4321

weight sum 21 69

precision 0.0349 0.0349

#### GENE251X

mean 0.1248 -0.0143

std. dev. 0.2656 0.4405

weight sum 23 71

precision 0.0309 0.0309

#### GENE260X

mean 0.0847 -0.0803

std. dev. 0.3391 0.46

weight sum 23 71

precision 0.0291 0.0291

#### GENE1325X

mean 0.1778 0.0338

std. dev. 0.273 0.6011

weight sum 23 72

precision 0.0413 0.0413

#### GENE1324X

mean 0.1296 0.0954

std. dev. 0.384 0.7641

weight sum 23 72



precision 0.0648 0.0648

#### GENE1323X

mean 0.1027 0.0246

std. dev. 0.2727 0.5813

weight sum 23 71

precision 0.0514 0.0514

#### GENE1322X

mean 0.1106 0.003

std. dev. 0.3256 0.5152

weight sum 23 70

precision 0.0417 0.0417

#### GENE1321X

mean 0.0865 -0.0029

std. dev. 0.3924 0.5574

weight sum 23 72

precision 0.0415 0.0415

#### GENE1320X

mean 0.1211 -0.0027

std. dev. 0.3101 0.5535

weight sum 23 71

precision 0.0382 0.0382

#### GENE1319X

mean 0.0703 -0.0482

std. dev. 0.3223 0.5632

weight sum 23 72

precision 0.0394 0.0394

#### GENE261X

mean 0.1611 -0.0143

std. dev. 0.3321 0.6416

weight sum 23 66

precision 0.0412 0.0412

#### GENE262X

mean 0.1692 -0.0303

std. dev. 0.3017 0.6047

weight sum 23 65

precision 0.0428 0.0428

#### GENE263X

mean 0.055 0.1023

std. dev. 0.3348 0.5928

weight sum 20 61

precision 0.0459 0.0459

#### GENE264X

mean 0.0045 0.0595

std. dev. 0.4038 0.5153

weight sum 21 66

precision 0.0314 0.0314

#### GENE265X

mean 0.0018 -0.0797

std. dev. 0.4392 0.546

weight sum 23 71

precision 0.0404 0.0404

#### GENE266X

mean 0.1505 -0.0075

std. dev. 0.3925 0.6158

weight sum 23 70

precision 0.0403 0.0403

#### GENE310X

mean -0.0596 0.0342

std. dev. 0.3443 0.3773

weight sum 22 70

precision 0.0328 0.0328

#### GENE311X

mean -0.0553 0.088

std. dev. 0.3753 0.4375

weight sum 23 68

precision 0.0471 0.0471

#### GENE312X

mean 0.0991 0.0889

std. dev. 0.4249 0.6581

weight sum 23 68

precision 0.053 0.053

#### GENE313X

mean -0.1117 0.0834

std. dev. 0.5255 0.5977

weight sum 20 63

precision 0.0414 0.0414

#### GENE935X

mean 0.0762 -0.0585

std. dev. 0.3354 0.4133

weight sum 23 72

precision 0.0337 0.0337

#### GENE934X

mean 0.0301 -0.0724

std. dev. 0.429 0.4432

weight sum 22 71

precision 0.0332 0.0332

#### GENE1060X

mean 0.0509 0.0515

std. dev. 0.6386 0.6778

weight sum 23 70

precision 0.0451 0.0451

#### GENE428X

mean 0.1807 -0.1356

std. dev. 0.4939 0.6716

weight sum 23 68

precision 0.0478 0.0478

#### GENE420X

mean 0.315 -0.1717

std. dev. 0.5032 0.6847

weight sum 23 62

precision 0.0493 0.0493

#### GENE427X

mean -0.0733 0.0239

std. dev. 0.6984 1.0759

weight sum 20 64

precision 0.0637 0.0637

#### GENE404X

mean -0.159 0.1232

std. dev. 0.4567 0.603

weight sum 22 67

precision 0.0448 0.0448

#### GENE204X

mean -0.0065 0.0524

std. dev. 0.4261 0.5058

weight sum 22 57

precision 0.036 0.036

#### GENE203X

mean 0.0097 0.0168

std. dev. 0.4681 0.5812

weight sum 23 69

precision 0.0445 0.0445

#### GENE202X

mean -0.0376 0.0061

std. dev. 0.5401 0.5114

weight sum 23 71

precision 0.0361 0.0361

#### GENE426X

mean -0.1859 0.0257

std. dev. 0.4927 0.8346

weight sum 19 62

precision 0.0692 0.0692

#### GENE425X

mean -0.1252 0.0818

std. dev. 0.5964 0.8919

weight sum 21 61

precision 0.0674 0.0674

#### GENE424X

mean 0.1971 0.0623

std. dev. 0.5331 0.8577

weight sum 21 57

precision 0.0538 0.0538

#### GENE422X

mean -0.0382 -0.0468

std. dev. 0.3086 0.4855

weight sum 23 67

precision 0.0314 0.0314

#### GENE407X

mean -0.0813 0.1203

std. dev. 0.43 0.5832

weight sum 22 70

precision 0.0397 0.0397

#### GENE408X

mean -0.0766 0.1621

std. dev. 0.6154 0.6155

weight sum 23 70

precision 0.0452 0.0452

#### GENE409X

mean 0.1211 0.0447

std. dev. 0.6475 0.722

weight sum 23 69



precision 0.0497 0.0497

#### GENE410X

mean 0.1365 0.0299

std. dev. 0.4546 0.7342

weight sum 23 71

precision 0.0392 0.0392

#### GENE544X

mean 0.1547 0.0555

std. dev. 0.4128 0.7234

weight sum 23 70

precision 0.0409 0.0409

#### GENE411X

mean 0.1562 -0.0439

std. dev. 0.4197 0.6869

weight sum 22 66

precision 0.0491 0.0491

#### GENE744X

mean 0.1431 -0.1864

std. dev. 0.4165 0.8933

weight sum 23 65

precision 0.0522 0.0522

#### GENE746X

mean -0.058 -0.044

std. dev. 0.4838 0.765

weight sum 20 63

precision 0.0504 0.0504

#### GENE752X

mean 0.0879 -0.014

std. dev. 0.7234 0.8139

weight sum 22 57

precision 0.0569 0.0569

#### GENE751X

mean 0.0334 -0.042

std. dev. 0.552 0.8542

weight sum 19 62

precision 0.0635 0.0635

#### GENE749X

mean 0.1377 -0.1255

std. dev. 0.765 0.9451

weight sum 21 61

precision 0.0567 0.0567

#### GENE747X

mean 0.0587 0.0616

std. dev. 0.6453 0.8338

weight sum 21 60

precision 0.0587 0.0587

#### GENE748X

mean 0.0821 0.1453

std. dev. 0.6168 0.8483

weight sum 22 60

precision 0.0531 0.0531

#### GENE753X

mean 0.1975 0.1928

std. dev. 0.8477 1.1853

weight sum 21 72

precision 0.0532 0.0532

#### GENE754X

mean 0.3103 0.0653

std. dev. 0.8107 1.1525

weight sum 22 66

precision 0.0599 0.0599

#### GENE418X

mean -0.0529 -0.0692

std. dev. 0.596 0.7092

weight sum 21 63

precision 0.0427 0.0427

#### GENE402X

mean 0.0147 -0.0352

std. dev. 0.4259 0.656

weight sum 23 69

precision 0.0338 0.0338

#### GENE412X

mean 0.2084 -0.0731

std. dev. 0.4778 0.7036

weight sum 22 62

precision 0.0566 0.0566

#### GENE421X

mean 0.2098 -0.0899

std. dev. 0.4028 0.6777

weight sum 22 62

precision 0.0563 0.0563

#### GENE413X

mean -0.0399 0.0573

std. dev. 0.5924 0.9081

weight sum 22 55

precision 0.0732 0.0732

#### GENE414X

mean -0.0808 0.0735

std. dev. 0.5887 0.6505

weight sum 20 57

precision 0.0598 0.0598

#### GENE417X

mean 0.002 -0.1094

std. dev. 0.4438 0.5581

weight sum 21 62

precision 0.0424 0.0424

#### GENE419X

mean -0.065 -0.0768

std. dev. 0.4778 0.6687

weight sum 21 59

precision 0.0546 0.0546

#### GENE416X

mean 0.1274 0.155

std. dev. 0.6909 1.0635

weight sum 23 63

precision 0.0697 0.0697

#### GENE405X

mean -0.0044 0.2095

std. dev. 0.4918 0.6387

weight sum 23 72

precision 0.051 0.051

#### GENE406X

mean -0.1263 0.1746

std. dev. 0.6418 0.7133

weight sum 21 68

precision 0.0603 0.0603

#### GENE348X

mean 0.0855 0.1172

std. dev. 0.5462 0.6564

weight sum 23 69

precision 0.0437 0.0437

#### GENE347X

mean 0.0133 0.0071

std. dev. 0.5056 0.7734

weight sum 21 55

precision 0.0558 0.0558

#### GENE269X

mean 0.1534 0.0551

std. dev. 0.4087 0.4374

weight sum 22 67

precision 0.0318 0.0318

#### GENE900X

mean 0.0263 0.001

std. dev. 0.2904 0.4128

weight sum 21 70

precision 0.0345 0.0345

#### GENE205X

mean 0.1348 0.0167

std. dev. 0.5299 0.6287

weight sum 22 56

precision 0.052 0.052

#### GENE2970X

mean 0.0404 -0.04

std. dev. 0.437 0.5719

weight sum 23 68

precision 0.0358 0.0358

#### GENE2971X

mean 0.039 0.0053

std. dev. 0.3114 0.6244

weight sum 23 68

precision 0.0449 0.0449

#### GENE195X

mean -0.09 -0.0638

std. dev. 0.5521 0.5195

weight sum 20 57

precision 0.0375 0.0375

#### GENE194X

mean -0.2091 -0.1116

std. dev. 0.5905 0.7055

weight sum 21 59



precision 0.0467 0.0467

#### GENE899X

mean 0.1821 -0.024

std. dev. 0.4556 0.4622

weight sum 23 69

precision 0.0338 0.0338

#### GENE376X

mean 0.292 -0.018

std. dev. 0.4071 0.5213

weight sum 23 72

precision 0.0371 0.0371

#### GENE379X

mean 0.6568 -0.1316

std. dev. 0.6573 0.6299

weight sum 23 60

precision 0.0526 0.0526

#### GENE377X

mean 0.3745 -0.0682

std. dev. 0.3153 0.4449

weight sum 23 72

precision 0.0334 0.0334

#### GENE378X

mean 0.527 -0.0706

std. dev. 0.3652 0.5549

weight sum 23 72

precision 0.0322 0.0322

#### GENE855X

mean 0.2697 -0.0505

std. dev. 0.3639 0.3712

weight sum 23 72

precision 0.0279 0.0279

#### GENE389X

mean 0.5811 -0.0214

std. dev. 0.6777 0.5506

weight sum 23 71

precision 0.049 0.049

#### GENE390X

mean 0.4314 -0.16

std. dev. 0.5499 0.4915

weight sum 23 71

precision 0.0496 0.0496

#### GENE391X

mean 0.4485 -0.0216

std. dev. 0.4947 0.5813

weight sum 23 72

precision 0.0421 0.0421

#### GENE392X

mean 0.3764 -0.0591

std. dev. 0.4216 0.5967

weight sum 23 70

precision 0.0426 0.0426

#### GENE372X

mean 0.1654 -0.0692

std. dev. 0.3105 0.4548

weight sum 23 64

precision 0.0392 0.0392

#### GENE371X

mean 0.1712 -0.0251

std. dev. 0.4279 0.4299

weight sum 23 71

precision 0.0336 0.0336

#### GENE909X

mean 0.1692 -0.0211

std. dev. 0.5415 0.3994

weight sum 23 72

precision 0.0389 0.0389

#### GENE1062X

mean 0.007 -0.0658

std. dev. 0.4406 0.6226

weight sum 23 72

precision 0.0538 0.0538

#### GENE885X

mean 0.2163 -0.1558

std. dev. 0.3535 0.5886

weight sum 23 71

precision 0.0383 0.0383

#### GENE886X

mean 0.0872 -0.1487

std. dev. 0.3847 0.5336

weight sum 23 70

precision 0.0467 0.0467

#### GENE903X

mean 0.1941 -0.0863

std. dev. 0.4844 0.4935

weight sum 19 61

precision 0.0384 0.0384

#### GENE358X

mean 0.1225 -0.076

std. dev. 0.4345 0.5426

weight sum 22 66

precision 0.0374 0.0374

#### GENE395X

mean 0.5029 -0.0253

std. dev. 0.4538 0.5878

weight sum 18 64

precision 0.0437 0.0437

#### GENE904X

mean 0.2376 -0.0393

std. dev. 0.3853 0.6866

weight sum 23 66

precision 0.0471 0.0471

#### GENE381X

mean 0.2116 -0.1335

std. dev. 0.3157 0.5465

weight sum 23 72

precision 0.0405 0.0405

#### GENE374X

mean 0.5443 -0.0625

std. dev. 0.369 0.5279

weight sum 23 67

precision 0.0436 0.0436

#### GENE375X

mean 0.3011 0.0434

std. dev. 0.4818 0.7154

weight sum 17 63

precision 0.0582 0.0582

#### GENE380X

mean 0.2353 -0.0852

std. dev. 0.2965 0.4315

weight sum 23 71

precision 0.0318 0.0318

#### GENE878X

mean 0.2647 -0.0926

std. dev. 0.6783 0.8475

weight sum 23 70

precision 0.0564 0.0564

#### GENE877X

mean 0.3003 -0.0388

std. dev. 0.7892 0.9856

weight sum 23 72

precision 0.0508 0.0508

#### GENE876X

mean 0.2708 0.0171

std. dev. 0.8414 0.9416

weight sum 23 72

precision 0.0588 0.0588

#### GENE875X

mean 0.113 0.0179

std. dev. 0.8273 0.866

weight sum 23 71

precision 0.051 0.051

#### GENE898X

mean 0.2642 -0.1457

std. dev. 0.5402 0.5866

weight sum 22 69

precision 0.0493 0.0493

#### GENE363X

mean 0.2011 0.0116

std. dev. 0.3697 0.3736

weight sum 23 71

precision 0.0304 0.0304

#### GENE364X

mean 0.6566 -0.1372

std. dev. 0.7534 0.5674

weight sum 18 64

precision 0.0552 0.0552

#### GENE362X

mean 0.3911 -0.0992

std. dev. 0.3604 0.419

weight sum 23 70



precision 0.0311 0.0311

#### GENE361X

mean 0.6002 -0.0949

std. dev. 0.7633 0.6598

weight sum 18 61

precision 0.0643 0.0643

#### GENE360X

mean 0.2885 -0.0812

std. dev. 0.5089 0.5156

weight sum 23 71

precision 0.0349 0.0349

#### GENE370X

mean 0.197 -0.041

std. dev. 0.2961 0.4447

weight sum 22 72

precision 0.0266 0.0266

#### GENE925X

mean 0.0899 0.0743

std. dev. 0.3978 0.518

weight sum 23 72

precision 0.0304 0.0304

#### GENE926X

mean 0.0569 0.0132

std. dev. 0.2414 0.4639

weight sum 23 72

precision 0.0297 0.0297

#### GENE927X

mean 0.0065 0.008

std. dev. 0.3235 0.4449

weight sum 21 69

precision 0.0458 0.0458

#### GENE915X

mean 0.3545 -0.0834

std. dev. 0.6406 0.69

weight sum 23 69

precision 0.042 0.042

#### GENE916X

mean 0.0462 -0.0697

std. dev. 0.2332 0.272

weight sum 22 71

precision 0.0226 0.0226

#### GENE917X

mean 0.1106 -0.0242

std. dev. 0.2764 0.4175

weight sum 23 72

precision 0.0296 0.0296

#### GENE366X

mean 0.0064 -0.1157

std. dev. 0.3109 0.4418

weight sum 21 65

precision 0.0271 0.0271

#### GENE357X

mean 0.4424 -0.2343

std. dev. 0.8338 1.2415

weight sum 22 64

precision 0.0877 0.0877

#### GENE356X

mean 0.5762 -0.1553

std. dev. 0.8008 1.2185

weight sum 23 68

precision 0.0749 0.0749

#### GENE365X

mean 0.2308 -0.0274

std. dev. 0.3596 0.5258

weight sum 23 71

precision 0.0309 0.0309

#### GENE911X

mean 0.0374 -0.1429

std. dev. 0.9326 0.6976

weight sum 23 70

precision 0.0662 0.0662

#### GENE924X

mean 0.2801 -0.0763

std. dev. 0.5912 0.6131

weight sum 23 67

precision 0.0511 0.0511

#### GENE921X

mean 0.2049 0.0924

std. dev. 0.5842 0.9272

weight sum 22 66

precision 0.0635 0.0635

#### GENE922X

mean 0.0926 -0.0546

std. dev. 0.3359 0.4806

weight sum 23 71

precision 0.038 0.038

#### GENE923X

mean 0.3622 -0.1091

std. dev. 0.3547 0.712

weight sum 23 69

precision 0.0571 0.0571

#### GENE212X

mean 0.4041 -0.1617

std. dev. 0.5859 0.4828

weight sum 23 70

precision 0.0362 0.0362

#### GENE211X

mean 0.2674 -0.0791

std. dev. 0.4884 0.4567

weight sum 23 71

precision 0.0334 0.0334

#### GENE210X

mean 0.3593 -0.0238

std. dev. 0.5121 0.4436

weight sum 21 68

precision 0.0368 0.0368

#### GENE216X

mean 0.0909 -0.026

std. dev. 0.3348 0.3891

weight sum 21 63

precision 0.0298 0.0298

#### GENE215X

mean 0.1341 -0.0457

std. dev. 0.2868 0.3973

weight sum 23 71

precision 0.0321 0.0321

#### GENE185X

mean 0.2612 -0.0834

std. dev. 0.3194 0.4261

weight sum 22 65

precision 0.0325 0.0325

#### GENE1500X

mean 0.1373 -0.0975

std. dev. 0.3234 0.4277

weight sum 22 57

precision 0.0373 0.0373

#### GENE970X

mean 0.0598 -0.0979

std. dev. 0.3044 0.5433

weight sum 21 61

precision 0.038 0.038

#### GENE178X

mean -0.0181 0.0335

std. dev. 0.421 0.549

weight sum 23 71

precision 0.0378 0.0378

#### GENE179X

mean 0.0559 0.051

std. dev. 0.2406 0.4528

weight sum 23 71

precision 0.0476 0.0476

#### GENE180X

mean 0.0687 0.0135

std. dev. 0.3517 0.3649

weight sum 23 71

precision 0.0282 0.0282

#### GENE181X

mean 0.1218 0.0131

std. dev. 0.3716 0.404

weight sum 20 63

precision 0.0329 0.0329

#### GENE969X

mean 0.1336 -0.0209

std. dev. 0.3599 0.41

weight sum 22 72

precision 0.0319 0.0319

#### GENE2596X

mean 0.2232 -0.0453

std. dev. 0.4162 0.4467

weight sum 23 71



precision 0.0349 0.0349

#### GENE2595X

mean 0.3042 -0.0144

std. dev. 0.7414 0.3925

weight sum 23 71

precision 0.0364 0.0364

#### GENE214X

mean 0.1112 -0.0169

std. dev. 0.3116 0.3305

weight sum 23 72

precision 0.0203 0.0203

#### GENE177X

mean 0.3142 -0.0931

std. dev. 0.5909 0.5341

weight sum 23 71

precision 0.0363 0.0363

#### GENE176X

mean 0.3158 -0.0462

std. dev. 0.4485 0.4362

weight sum 23 72

precision 0.0339 0.0339

#### GENE182X

mean 0.088 -0.1619

std. dev. 0.3423 0.5406

weight sum 23 70

precision 0.0368 0.0368

#### GENE184X

mean 0.1006 -0.016

std. dev. 0.3774 0.6437

weight sum 23 71

precision 0.0367 0.0367

#### GENE183X

mean 0.0802 -0.1365

std. dev. 0.4244 0.5309

weight sum 23 71

precision 0.0355 0.0355

#### GENE49X

mean 0.0218 -0.0106

std. dev. 0.3926 0.3942

weight sum 22 68

precision 0.0266 0.0266

#### GENE3398X

mean -0.0633 0.1117

std. dev. 0.3774 0.5536

weight sum 20 63

precision 0.0506 0.0506

#### GENE1064X

mean 0.0625 0.0074

std. dev. 0.4112 0.4431

weight sum 23 71

precision 0.0351 0.0351

#### GENE1063X

mean 0.0291 0.0871

std. dev. 0.2969 0.4338

weight sum 23 72

precision 0.0352 0.0352

#### GENE171X

mean 0.0106 -0.0119

std. dev. 0.1933 0.3874

weight sum 20 65

precision 0.0352 0.0352

#### GENE956X

mean 0.199 -0.0062

std. dev. 0.41 0.5084

weight sum 23 72

precision 0.0444 0.0444

#### GENE957X

mean 0.1929 -0.0071

std. dev. 0.4174 0.4422

weight sum 22 72

precision 0.0319 0.0319

#### GENE958X

mean 0.2156 -0.0038

std. dev. 0.4788 0.5441

weight sum 22 69

precision 0.0439 0.0439

#### GENE959X

mean 0.229 -0.022

std. dev. 0.4146 0.3813

weight sum 23 72

precision 0.0323 0.0323

#### GENE955X

mean 0.2356 -0.0559

std. dev. 0.5182 0.4048

weight sum 18 63

precision 0.0379 0.0379

#### GENE996X

mean 0.0108 0.0016

std. dev. 0.3439 0.3296

weight sum 23 67

precision 0.0276 0.0276

#### GENE993X

mean 0.1585 -0.0412

std. dev. 0.3386 0.3486

weight sum 23 70

precision 0.038 0.038

#### GENE992X

mean 0.079 -0.0148

std. dev. 0.4413 0.4517

weight sum 23 70

precision 0.0279 0.0279

#### GENE991X

mean 0.1093 -0.0247

std. dev. 0.3602 0.4945

weight sum 23 71

precision 0.0292 0.0292

#### GENE990X

mean 0.0398 0.1283

std. dev. 0.5383 0.6021

weight sum 23 69

precision 0.0366 0.0366

#### GENE989X

mean -0.1329 0.0075

std. dev. 0.4251 0.4034

weight sum 23 72

precision 0.027 0.027

#### GENE988X

mean 0.117 -0.0203

std. dev. 0.3664 0.3804

weight sum 23 71

precision 0.0272 0.0272

#### GENE987X

mean 0.166 0.0257

std. dev. 0.3415 0.4161

weight sum 23 70

precision 0.0561 0.0561

#### GENE68X

mean 0.2152 -0.0423

std. dev. 0.3516 0.3117

weight sum 23 72

precision 0.0254 0.0254

#### GENE69X

mean 0.2029 -0.0042

std. dev. 0.3567 0.3735

weight sum 20 58

precision 0.0244 0.0244

#### GENE188X

mean 0.1322 -0.0675

std. dev. 0.239 0.3654

weight sum 23 69

precision 0.0323 0.0323

#### GENE147X

mean 0.1455 -0.061

std. dev. 0.4493 0.5291

weight sum 22 60

precision 0.0457 0.0457

#### GENE1286X

mean 0.0151 -0.0897

std. dev. 0.3713 0.5632

weight sum 21 61

precision 0.0636 0.0636

#### GENE1287X

mean 0.2552 -0.1161

std. dev. 0.3854 0.6788

weight sum 22 60

precision 0.0677 0.0677

#### GENE3009X

mean 0.0139 -0.0702

std. dev. 0.3755 0.3574

weight sum 23 71



precision 0.0267 0.0267

#### GENE979X

mean 0.0095 -0.0251

std. dev. 0.3329 0.3705

weight sum 23 71

precision 0.0312 0.0312

#### GENE978X

mean -0.0494 -0.1006

std. dev. 0.4206 0.4967

weight sum 23 71

precision 0.0406 0.0406

#### GENE977X

mean -0.1543 -0.119

std. dev. 0.6086 0.7588

weight sum 23 71

precision 0.05 0.05

#### GENE984X

mean 0.4543 -0.1043

std. dev. 0.5083 0.5995

weight sum 22 64

precision 0.0454 0.0454

#### GENE172X

mean 0.0033 0.0466

std. dev. 0.4055 0.5085

weight sum 23 67

precision 0.0381 0.0381

#### GENE189X

mean 0.2553 0.0444

std. dev. 0.4522 0.7267

weight sum 22 67

precision 0.048 0.048

#### GENE63X

mean 0.3194 -0.1152

std. dev. 0.826 0.8224

weight sum 23 69

precision 0.0432 0.0432

#### GENE64X

mean 0.1115 0.0036

std. dev. 0.3231 0.3527

weight sum 23 71

precision 0.0254 0.0254

#### GENE23X

mean -0.0946 -0.0603

std. dev. 0.3466 0.4632

weight sum 23 71

precision 0.034 0.034

#### GENE2601X

mean -0.1083 0.0245

std. dev. 0.3481 0.4147

weight sum 21 69

precision 0.0307 0.0307

#### GENE143X

mean 0.0863 -0.101

std. dev. 0.3103 0.3743

weight sum 23 70

precision 0.0288 0.0288

#### GENE144X

mean 0.1064 -0.0447

std. dev. 0.2565 0.3513

weight sum 20 68

precision 0.0276 0.0276

#### GENE145X

mean 0.1455 -0.046

std. dev. 0.374 0.5617

weight sum 23 72

precision 0.0385 0.0385

#### GENE142X

mean 0.1857 -0.022

std. dev. 0.5047 0.515

weight sum 23 72

precision 0.0344 0.0344

#### GENE141X

mean 0.1288 -0.0293

std. dev. 0.4558 0.5731

weight sum 18 63

precision 0.0429 0.0429

#### GENE140X

mean -0.0527 0.1479

std. dev. 0.3929 0.5509

weight sum 17 65

precision 0.0471 0.0471

#### GENE139X

mean 0.0455 0.0223

std. dev. 0.3639 0.4859

weight sum 23 72

precision 0.0374 0.0374

#### GENE138X

mean 0.0421 0.0366

std. dev. 0.3327 0.4232

weight sum 23 72

precision 0.0303 0.0303

#### GENE137X

mean 0.2065 -0.045

std. dev. 0.2736 0.4215

weight sum 23 72

precision 0.0279 0.0279

#### GENE136X

mean 0.0318 0.0993

std. dev. 0.4539 0.4163

weight sum 23 62

precision 0.0305 0.0305

#### GENE131X

mean -0.3069 0.1325

std. dev. 0.4531 0.575

weight sum 23 71

precision 0.0379 0.0379

#### GENE132X

mean -0.1837 0.1156

std. dev. 0.4852 0.6801

weight sum 20 68

precision 0.0517 0.0517

#### GENE133X

mean -0.0058 0.1008

std. dev. 0.4178 0.6572

weight sum 23 72

precision 0.0666 0.0666

#### GENE134X

mean -0.0116 0.1281

std. dev. 0.4901 0.6282

weight sum 23 69

precision 0.0536 0.0536

#### GENE135X

mean 0.037 0.1455

std. dev. 0.4247 0.5405

weight sum 23 72

precision 0.0316 0.0316

#### GENE130X

mean -0.0364 0.0974

std. dev. 0.4039 0.5196

weight sum 23 72

precision 0.0399 0.0399

#### GENE129X

mean 0.1024 0.0541

std. dev. 0.2794 0.3438

weight sum 23 72

precision 0.0271 0.0271

#### GENE128X

mean 0.3473 0.1023

std. dev. 0.4689 0.6562

weight sum 23 71

precision 0.0382 0.0382

#### GENE127X

mean 0.1511 0.0405

std. dev. 0.6125 0.4141

weight sum 23 71

precision 0.0374 0.0374

#### GENE126X

mean 0.1051 0.1606

std. dev. 0.4165 0.5667

weight sum 23 72

precision 0.0378 0.0378

#### GENE125X

mean 0.097 0.0466

std. dev. 0.4221 0.5313

weight sum 23 71

precision 0.036 0.036

#### GENE124X

mean 0.1776 0.1501

std. dev. 0.5281 0.6232

weight sum 23 72



precision 0.0439 0.0439

#### GENE123X

mean 0.1499 0.0972

std. dev. 0.5296 0.6553

weight sum 23 72

precision 0.0515 0.0515

#### GENE122X

mean 0.1582 0.0752

std. dev. 0.5001 0.6143

weight sum 23 71

precision 0.0485 0.0485

#### GENE121X

mean 0.1544 0.0707

std. dev. 0.5264 0.5901

weight sum 23 72

precision 0.0342 0.0342

#### GENE120X

mean 0.243 0.0582

std. dev. 0.4847 0.6144

weight sum 23 70

precision 0.0433 0.0433

#### GENE119X

mean 0.3369 -0.0377

std. dev. 0.5642 0.6394

weight sum 23 72

precision 0.0494 0.0494

#### GENE118X

mean 0.2328 0.0145

std. dev. 0.5848 0.6634

weight sum 23 71

precision 0.0515 0.0515

#### GENE117X

mean 0.2149 0.0372

std. dev. 0.5362 0.5952

weight sum 20 66

precision 0.0361 0.0361

#### GENE116X

mean 0.1476 0.0254

std. dev. 0.5646 0.5758

weight sum 23 72

precision 0.0333 0.0333

#### GENE115X

mean 0.1729 0.0019

std. dev. 0.9295 0.7091

weight sum 23 70

precision 0.0663 0.0663

#### GENE114X

mean 0.0239 0.0146

std. dev. 0.6444 0.7466

weight sum 23 72

precision 0.05 0.05

#### GENE113X

mean 0.349 0.0407

std. dev. 0.579 0.7018

weight sum 23 71

precision 0.0408 0.0408

#### GENE112X

mean 0.2458 -0.0028

std. dev. 0.6426 0.5689

weight sum 23 72

precision 0.0404 0.0404

#### GENE111X

mean 0.0996 0.0195

std. dev. 0.5509 0.5503

weight sum 23 72

precision 0.0342 0.0342

#### GENE110X

mean 0.1391 -0.0595

std. dev. 0.6431 0.538

weight sum 23 72

precision 0.0451 0.0451

#### GENE109X

mean 0.0507 0.0932

std. dev. 0.4451 0.482

weight sum 23 61

precision 0.0365 0.0365

#### GENE108X

mean 0.0186 0.0671

std. dev. 0.3909 0.5041

weight sum 23 71

precision 0.0356 0.0356

#### GENE107X

mean 0.1221 0.1056

std. dev. 0.4765 0.568

weight sum 23 72

precision 0.0305 0.0305

#### GENE106X

mean 0.0575 0.0858

std. dev. 0.4333 0.4259

weight sum 23 72

precision 0.027 0.027

#### GENE105X

mean 0.1346 0.0924

std. dev. 0.5477 0.5087

weight sum 23 71

precision 0.031 0.031

#### GENE104X

mean 0.2085 0.1129

std. dev. 0.5821 0.5353

weight sum 23 72

precision 0.0375 0.0375

#### GENE103X

mean 0.194 0.1089

std. dev. 0.5107 0.5054

weight sum 23 72

precision 0.0375 0.0375

#### GENE102X

mean 0.0324 0.0401

std. dev. 0.3459 0.3451

weight sum 23 72

precision 0.031 0.031

#### GENE101X

mean -0.2462 0.1943

std. dev. 0.4927 0.6128

weight sum 23 72

precision 0.037 0.037

#### GENE100X

mean 0.0218 0.0383

std. dev. 0.3615 0.5081

weight sum 23 71

precision 0.0358 0.0358

#### GENE99X

mean 0.0396 -0.0027

std. dev. 0.3238 0.3617

weight sum 23 72

precision 0.0276 0.0276

#### GENE98X

mean 0.175 -0.0157

std. dev. 0.6322 0.7331

weight sum 23 71

precision 0.0485 0.0485

#### GENE3633X

mean 0.0424 -0.0654

std. dev. 0.7073 0.6253

weight sum 23 71

precision 0.0464 0.0464

#### GENE3632X

mean 0.2653 -0.0778

std. dev. 0.6841 0.5501

weight sum 23 70

precision 0.0469 0.0469

#### GENE334X

mean 0.1116 0.0309

std. dev. 0.4281 0.4904

weight sum 23 63

precision 0.0389 0.0389

#### GENE97X

mean -0.1071 0.0465

std. dev. 0.5912 0.5991

weight sum 23 71

precision 0.044 0.044

#### GENE2646X

mean -0.0419 0.1137

std. dev. 0.7036 0.6625

weight sum 23 71

precision 0.0508 0.0508

#### GENE2645X

mean -0.2315 0.1651

std. dev. 0.733 0.7714

weight sum 23 71



precision 0.0538 0.0538

#### GENE309X

mean -0.075 0.1106

std. dev. 0.498 0.503

weight sum 23 72

precision 0.0297 0.0297

#### GENE340X

mean -0.0415 0.0132

std. dev. 0.4883 0.6546

weight sum 23 72

precision 0.0596 0.0596

#### GENE86X

mean -0.3739 0.1186

std. dev. 0.4696 0.5003

weight sum 22 70

precision 0.0361 0.0361

#### GENE3993X

mean -0.0223 0.0434

std. dev. 0.3391 0.3688

weight sum 23 70

precision 0.032 0.032

#### GENE162X

mean 0.0706 -0.0477

std. dev. 0.6169 0.7345

weight sum 23 71

precision 0.0464 0.0464

#### GENE161X

mean 0.2022 -0.0113

std. dev. 0.6454 0.6842

weight sum 23 72

precision 0.0427 0.0427

#### GENE160X

mean 0.1926 -0.0751

std. dev. 0.3678 0.5123

weight sum 23 69

precision 0.0418 0.0418

#### GENE1003X

mean 0.1337 0.281

std. dev. 0.8464 0.9469

weight sum 23 72

precision 0.0539 0.0539

#### GENE1004X

mean -0.0092 0.3935

std. dev. 1.2303 1.1537

weight sum 22 68

precision 0.0674 0.0674

#### GENE1005X

mean -0.0193 0.2611

std. dev. 1.0717 1.1645

weight sum 21 65

precision 0.0676 0.0676

#### GENE1006X

mean 0.103 -0.039

std. dev. 0.3041 0.4391

weight sum 23 72

precision 0.0401 0.0401

#### GENE1007X

mean -0.1084 0.0687

std. dev. 0.3251 0.4161

weight sum 18 63

precision 0.0383 0.0383

#### GENE207X

mean -0.1045 0.153

std. dev. 0.415 0.7446

weight sum 21 60

precision 0.0665 0.0665

#### GENE206X

mean 0.0232 0.1079

std. dev. 0.4371 0.79

weight sum 23 60

precision 0.0667 0.0667

#### GENE153X

mean 0.0776 -0.0172

std. dev. 0.3259 0.4013

weight sum 23 70

precision 0.0364 0.0364

#### GENE152X

mean 0.1651 -0.0731

std. dev. 0.6563 0.6318

weight sum 23 72

precision 0.0432 0.0432

#### GENE151X

mean 0.1212 -0.1431

std. dev. 0.3514 0.5392

weight sum 23 65

precision 0.041 0.041

#### GENE149X

mean 0.1053 -0.0337

std. dev. 0.3221 0.4897

weight sum 21 64

precision 0.0539 0.0539

#### GENE150X

mean 0.1248 -0.0693

std. dev. 0.4692 0.4502

weight sum 23 71

precision 0.0342 0.0342

#### GENE146X

mean 0.2119 -0.1208

std. dev. 0.3424 0.4884

weight sum 23 72

precision 0.0364 0.0364

#### GENE3407X

mean 0.2025 -0.0304

std. dev. 0.582 0.4471

weight sum 23 70

precision 0.0443 0.0443

#### GENE3408X

mean 0.3187 -0.073

std. dev. 0.4012 0.4512

weight sum 23 72

precision 0.0414 0.0414

#### GENE3962X

mean 0.2477 -0.0312

std. dev. 0.755 0.8152

weight sum 23 69

precision 0.0581 0.0581

#### GENE186X

mean 0.5296 -0.1144

std. dev. 0.681 0.8559

weight sum 23 71

precision 0.0606 0.0606

#### GENE29X

mean 0.126 -0.0058

std. dev. 0.3409 0.3311

weight sum 23 72

precision 0.0318 0.0318

#### GENE998X

mean 0.5323 -0.0443

std. dev. 0.719 0.5018

weight sum 23 72

precision 0.058 0.058

#### GENE1440X

mean 0.0633 -0.0122

std. dev. 0.4054 0.3298

weight sum 22 61

precision 0.034 0.034

#### GENE67X

mean 0.31 -0.0669

std. dev. 0.3448 0.4219

weight sum 23 71

precision 0.0403 0.0403

#### GENE70X

mean 0.2279 0.0352

std. dev. 0.3479 0.5167

weight sum 21 70

precision 0.0483 0.0483

#### GENE1080X

mean 1.1152 -0.0245

std. dev. 1.607 0.9341

weight sum 23 71

precision 0.0968 0.0968

#### GENE1081X

mean 0.4862 -0.0613

std. dev. 0.9933 0.95

weight sum 22 63

precision 0.0677 0.0677

#### GENE3080X

mean 0.0666 -0.0738

std. dev. 0.238 0.3772

weight sum 23 69



precision 0.0289 0.0289

#### GENE3896X

mean -0.2779 -0.019

std. dev. 0.8617 0.9162

weight sum 23 72

precision 0.0546 0.0546

#### GENE39X

mean -0.0422 0.0229

std. dev. 0.3231 0.3756

weight sum 23 69

precision 0.0277 0.0277

#### GENE3123X

mean -0.0739 0.0232

std. dev. 0.3462 0.3804

weight sum 23 72

precision 0.0254 0.0254

#### GENE71X

mean -0.1072 0.0125

std. dev. 0.4202 0.3345

weight sum 20 59

precision 0.039 0.039

#### GENE72X

mean 0.0728 0.0202

std. dev. 0.4139 0.6026

weight sum 21 61

precision 0.0588 0.0588

#### GENE73X

mean 0.0648 0.0247

std. dev. 0.3516 0.645

weight sum 23 72

precision 0.071 0.071

#### GENE74X

mean 0.0406 0.0417

std. dev. 0.271 0.651

weight sum 22 70

precision 0.0811 0.0811

#### GENE75X

mean 0.0716 0.0048

std. dev. 0.2522 0.6003

weight sum 23 72

precision 0.0686 0.0686

#### GENE76X

mean 0.0565 0.0219

std. dev. 0.3293 0.7044

weight sum 23 70

precision 0.0765 0.0765

#### GENE77X

mean -0.076 0.1185

std. dev. 0.3166 0.6229

weight sum 22 70

precision 0.0669 0.0669

#### GENE3157X

mean -0.3196 0.1035

std. dev. 0.5938 0.7195

weight sum 23 71

precision 0.0545 0.0545

#### GENE78X

mean 0.0374 0.0947

std. dev. 0.523 0.7276

weight sum 23 71

precision 0.0505 0.0505

#### GENE79X

mean 0.1063 0.0767

std. dev. 0.4297 0.537

weight sum 23 72

precision 0.0395 0.0395

#### GENE80X

mean 0.0721 0.0196

std. dev. 0.3429 0.3594

weight sum 22 70

precision 0.0353 0.0353

#### GENE4023X

mean 0.085 -0.0462

std. dev. 0.702 0.2979

weight sum 23 72

precision 0.0652 0.0652

#### GENE3983X

mean 0.6811 -0.0668

std. dev. 0.9743 0.6686

weight sum 21 63

precision 0.0726 0.0726

#### GENE3982X

mean 0.6686 -0.0858

std. dev. 0.762 0.7934

weight sum 23 71

precision 0.0743 0.0743

#### GENE1438X

mean 0.0184 0.0574

std. dev. 0.5545 0.506

weight sum 23 71

precision 0.0529 0.0529

#### GENE1470X

mean 0.2583 0.1065

std. dev. 0.8165 0.9991

weight sum 22 58

precision 0.0824 0.0824

#### GENE1471X

mean 0.3047 0.0243

std. dev. 0.8199 0.6506

weight sum 21 56

precision 0.0592 0.0592

#### GENE3905X

mean -0.0376 0.0584

std. dev. 0.34 0.3185

weight sum 23 72

precision 0.0298 0.0298

#### GENE3906X

mean -0.1559 -0.0062

std. dev. 0.421 0.3657

weight sum 23 70

precision 0.0312 0.0312

#### GENE28X

mean 0.1481 0.0178

std. dev. 0.5338 0.4856

weight sum 23 67

precision 0.0442 0.0442

#### GENE1842X

mean -0.0987 0.1275

std. dev. 0.4211 0.4612

weight sum 23 71

precision 0.0303 0.0303

#### GENE1439X

mean 0.0907 0.0127

std. dev. 0.419 0.4622

weight sum 23 70

precision 0.0307 0.0307

#### GENE3187X

mean -0.0879 0.0845

std. dev. 0.6196 0.5789

weight sum 23 65

precision 0.0578 0.0578

#### GENE3179X

mean 0 0.0417

std. dev. 0.5088 0.3535

weight sum 22 64

precision 0.0417 0.0417

#### GENE3180X

mean 0.1851 -0.0159

std. dev. 0.3126 0.403

weight sum 23 70

precision 0.0384 0.0384

#### GENE3195X

mean 0.2531 -0.1233

std. dev. 0.3537 0.4632

weight sum 21 60

precision 0.0394 0.0394

#### GENE3194X

mean 0.2429 -0.0416

std. dev. 0.5108 0.5576

weight sum 21 70

precision 0.0399 0.0399

#### GENE3193X

mean 0.1317 -0.0677

std. dev. 0.4275 0.5258

weight sum 21 65

precision 0.0419 0.0419

#### GENE3192X

mean 0.0363 0.0071

std. dev. 0.3512 0.441

weight sum 23 68



precision 0.044 0.044

#### GENE3200X

mean 0.2265 0.1401

std. dev. 1.1915 1.4108

weight sum 23 70

precision 0.0676 0.0676

#### GENE3199X

mean 0.0628 0.1869

std. dev. 1.2006 1.354

weight sum 23 67

precision 0.0803 0.0803

#### GENE3198X

mean 0.2475 -0.0134

std. dev. 1.1496 1.3579

weight sum 23 71

precision 0.0678 0.0678

#### GENE3201X

mean 0.1582 -0.0301

std. dev. 0.4303 0.6219

weight sum 23 56

precision 0.0543 0.0543

#### GENE1856X

mean -0.0214 -0.0244

std. dev. 0.3734 0.4

weight sum 21 67

precision 0.0321 0.0321

#### GENE3124X

mean -0.1116 0.1971

std. dev. 0.4936 0.6665

weight sum 22 66

precision 0.0614 0.0614

#### GENE3125X

mean -0.1322 0.1905

std. dev. 0.6358 0.6511

weight sum 21 63

precision 0.0496 0.0496

#### GENE3844X

mean -0.3592 0.0087

std. dev. 1.4325 1.3118

weight sum 23 70

precision 0.0758 0.0758

#### GENE3845X

mean 0.0387 0.0024

std. dev. 0.58 0.5617

weight sum 23 70

precision 0.0556 0.0556

#### GENE3846X

mean -0.2604 -0.0072

std. dev. 1.0184 1.1219

weight sum 23 72

precision 0.0644 0.0644

#### GENE3847X

mean -0.1328 0.1454

std. dev. 0.9193 0.9351

weight sum 22 71

precision 0.0649 0.0649

#### GENE3848X

mean -0.1079 0.2675

std. dev. 1.4125 1.4917

weight sum 23 72

precision 0.0752 0.0752

#### GENE3849X

mean 0.1282 0.3298

std. dev. 1.2388 1.2069

weight sum 23 72

precision 0.0756 0.0756

#### GENE3850X

mean -0.2034 0.0132

std. dev. 1.4653 1.4875

weight sum 23 72

precision 0.0793 0.0793

#### GENE3851X

mean -0.3852 -0.123

std. dev. 2.0353 1.8348

weight sum 23 72

precision 0.0913 0.0913

#### GENE3852X

mean -0.254 0.0195

std. dev. 1.7599 1.4493

weight sum 23 67

precision 0.0872 0.0872

#### GENE3853X

mean -0.1894 0.1493

std. dev. 0.4661 0.5934

weight sum 20 65

precision 0.0387 0.0387

#### GENE3854X

mean 0.0223 0.1507

std. dev. 0.4938 0.5537

weight sum 23 72

precision 0.0427 0.0427

#### GENE3855X

mean -0.0183 0.27

std. dev. 0.865 0.9617

weight sum 20 65

precision 0.0731 0.0731

#### GENE3856X

mean -0.3609 0.1326

std. dev. 0.6585 0.9076

weight sum 21 62

precision 0.0715 0.0715

#### GENE3857X

mean -0.3273 0.0853

std. dev. 0.5894 0.6576

weight sum 21 69

precision 0.0521 0.0521

#### GENE3203X

mean -0.0543 0.1692

std. dev. 0.5434 0.6594

weight sum 22 66

precision 0.0459 0.0459

#### GENE1867X

mean -0.058 0.0375

std. dev. 0.2688 0.3369

weight sum 23 69

precision 0.0252 0.0252

#### GENE1866X

mean 0.0573 0.1067

std. dev. 0.4176 0.7777

weight sum 20 58

precision 0.0573 0.0573

#### GENE1863X

mean -0.1683 0.206

std. dev. 0.558 0.9292

weight sum 19 64

precision 0.078 0.078

#### GENE1862X

mean -0.1907 0.1819

std. dev. 0.5521 0.825

weight sum 22 70

precision 0.0494 0.0494

#### GENE1798X

mean 0.195 -0.0914

std. dev. 0.4593 0.383

weight sum 23 72

precision 0.0262 0.0262

#### GENE1860X

mean -0.157 -0.0289

std. dev. 0.8209 0.5482

weight sum 20 67

precision 0.0388 0.0388

#### GENE1861X

mean 0.034 0.0161

std. dev. 0.908 0.6502

weight sum 21 57

precision 0.051 0.051

#### GENE3467X

mean 0.1156 0.0076

std. dev. 0.5695 0.544

weight sum 23 69

precision 0.0328 0.0328

#### GENE3164X

mean -0.1208 0.0256

std. dev. 0.4831 0.3479

weight sum 20 69

precision 0.0383 0.0383

#### GENE1859X

mean -0.0743 -0.0142

std. dev. 0.3525 0.3594

weight sum 21 65



precision 0.04 0.04

#### GENE3469X

mean 0.0749 -0.0315

std. dev. 0.2838 0.2579

weight sum 23 70

precision 0.0344 0.0344

#### GENE3128X

mean -0.1152 0.0479

std. dev. 0.3475 0.395

weight sum 21 66

precision 0.0372 0.0372

#### GENE1878X

mean -0.0615 0.0951

std. dev. 0.6493 0.7825

weight sum 22 64

precision 0.0676 0.0676

#### GENE1388X

mean 0.0831 0.0243

std. dev. 0.5738 0.5222

weight sum 23 72

precision 0.0546 0.0546

#### GENE1387X

mean 0.1758 0.0715

std. dev. 0.4733 0.4959

weight sum 23 72

precision 0.0459 0.0459

#### GENE1381X

mean 0.2319 0.0417

std. dev. 0.5761 0.679

weight sum 21 60

precision 0.0641 0.0641

#### GENE1379X

mean -0.0657 0.0074

std. dev. 0.3025 0.3205

weight sum 21 65

precision 0.0282 0.0282

#### GENE1267X

mean 0.1328 -0.0716

std. dev. 0.3997 0.546

weight sum 23 70

precision 0.0477 0.0477

#### GENE1263X

mean 0.291 0.0221

std. dev. 0.6171 0.5442

weight sum 22 55

precision 0.0451 0.0451

#### GENE1264X

mean 0.0251 -0.033

std. dev. 0.4864 0.4911

weight sum 23 70

precision 0.0481 0.0481

#### GENE1265X

mean 0.0452 0.0181

std. dev. 0.509 0.4443

weight sum 23 66

precision 0.0385 0.0385

#### GENE1266X

mean -0.0202 0.0098

std. dev. 0.3601 0.2809

weight sum 20 57

precision 0.0311 0.0311

#### GENE1450X

mean -0.2314 0.0227

std. dev. 0.5397 0.4311

weight sum 21 62

precision 0.0402 0.0402

#### GENE1451X

mean -0.198 0.0088

std. dev. 0.5314 0.5762

weight sum 21 65

precision 0.052 0.052

#### GENE1452X

mean 0.1056 0.0617

std. dev. 0.8261 0.7444

weight sum 22 70

precision 0.0664 0.0664

#### GENE2022X

mean -0.0374 -0.0312

std. dev. 0.7123 0.7933

weight sum 23 70

precision 0.0662 0.0662

#### GENE1460X

mean 0.2158 -0.019

std. dev. 0.5326 0.5161

weight sum 22 62

precision 0.0452 0.0452

#### GENE1459X

mean 0.1339 0.0522

std. dev. 0.6073 0.5408

weight sum 22 69

precision 0.0468 0.0468

#### GENE1463X

mean 0.0188 0.0734

std. dev. 0.432 0.7155

weight sum 21 58

precision 0.0789 0.0789

#### GENE1462X

mean 0.1411 0.1411

std. dev. 0.5977 0.7911

weight sum 21 57

precision 0.0847 0.0847

#### GENE1461X

mean -0.0519 0.0626

std. dev. 0.615 0.6805

weight sum 21 58

precision 0.0726 0.0726

#### GENE1453X

mean 0.1597 -0.0028

std. dev. 0.3635 0.4004

weight sum 22 68

precision 0.0314 0.0314

#### GENE1454X

mean -0.1035 0.0093

std. dev. 0.3637 0.3666

weight sum 19 61

precision 0.0333 0.0333

#### GENE1458X

mean -0.0286 -0.0443

std. dev. 0.5317 0.3855

weight sum 22 64

precision 0.045 0.045

#### GENE1457X

mean -0.1323 -0.0259

std. dev. 0.6039 0.5248

weight sum 20 61

precision 0.0509 0.0509

#### GENE1456X

mean -0.0503 -0.0089

std. dev. 0.5072 0.439

weight sum 21 66

precision 0.0391 0.0391

#### GENE1455X

mean -0.1828 0.0758

std. dev. 0.47 0.5081

weight sum 19 60

precision 0.0511 0.0511

#### GENE1341X

mean -0.0448 0.1241

std. dev. 0.3607 0.5087

weight sum 22 64

precision 0.0519 0.0519

#### GENE1465X

mean -0.0533 0.006

std. dev. 0.3416 0.335

weight sum 23 71

precision 0.0306 0.0306

#### GENE3823X

mean -0.1807 -0.0024

std. dev. 0.4458 0.4959

weight sum 20 67

precision 0.0397 0.0397

#### GENE3824X

mean -0.1428 -0.0875

std. dev. 0.5442 0.5571

weight sum 22 60

precision 0.043 0.043

#### GENE3816X

mean 0.0787 -0.0164

std. dev. 0.8358 0.8646

weight sum 23 71



precision 0.0584 0.0584

#### GENE3817X

mean -0.3229 0.0794

std. dev. 0.5621 0.659

weight sum 20 65

precision 0.0449 0.0449

#### GENE3818X

mean -0.1158 0.1489

std. dev. 0.5058 0.6051

weight sum 20 63

precision 0.0579 0.0579

#### GENE3819X

mean -0.172 0.106

std. dev. 0.5898 0.7501

weight sum 23 71

precision 0.0425 0.0425

#### GENE3822X

mean -0.3221 0.0328

std. dev. 0.7584 0.7852

weight sum 21 72

precision 0.0463 0.0463

#### GENE3821X

mean -0.3733 0.054

std. dev. 0.5483 0.9254

weight sum 23 71

precision 0.066 0.066

#### GENE3820X

mean -0.5043 -0.0106

std. dev. 0.7545 0.809

weight sum 23 71

precision 0.0577 0.0577

#### GENE3815X

mean -0.1659 0.2203

std. dev. 0.3877 0.7887

weight sum 21 63

precision 0.0553 0.0553

#### GENE3301X

mean -0.142 0.1217

std. dev. 0.6521 0.7469

weight sum 21 63

precision 0.071 0.071

#### GENE1384X

mean -0.2997 0.0617

std. dev. 0.6253 0.5859

weight sum 19 65

precision 0.0542 0.0542

#### GENE1383X

mean -0.2264 0.1733

std. dev. 0.4714 0.8517

weight sum 20 68

precision 0.0666 0.0666

#### GENE1382X

mean -0.0103 0.0574

std. dev. 0.6708 0.6824

weight sum 21 62

precision 0.0539 0.0539

#### GENE1799X

mean 0.0889 0.0484

std. dev. 0.7774 0.8192

weight sum 23 68

precision 0.0568 0.0568

#### GENE1435X

mean 0.2383 0.0866

std. dev. 0.7155 0.6651

weight sum 23 70

precision 0.0485 0.0485

#### GENE1434X

mean 0.0776 -0.0415

std. dev. 0.32 0.3828

weight sum 20 64

precision 0.0298 0.0298

#### GENE1433X

mean 0.0689 0.0823

std. dev. 0.6983 0.8035

weight sum 20 67

precision 0.0811 0.0811

#### GENE1432X

mean -0.0266 0.0264

std. dev. 0.5683 0.3965

weight sum 22 65

precision 0.0391 0.0391

#### GENE1431X

mean 0.1003 -0.0012

std. dev. 0.3441 0.3221

weight sum 21 65

precision 0.0267 0.0267

#### GENE1427X

mean 0.0522 0.0379

std. dev. 0.8224 0.7158

weight sum 22 62

precision 0.0547 0.0547

#### GENE1426X

mean 0.0099 0.0656

std. dev. 0.5133 0.5429

weight sum 22 57

precision 0.0363 0.0363

#### GENE1872X

mean -0.0393 0.1956

std. dev. 0.6118 0.8344

weight sum 21 61

precision 0.0635 0.0635

#### GENE1428X

mean -0.0483 0.0464

std. dev. 0.5412 0.4974

weight sum 21 59

precision 0.0507 0.0507

#### GENE1425X

mean 0.0682 -0.0544

std. dev. 0.4296 0.4882

weight sum 20 61

precision 0.031 0.031

#### GENE1424X

mean 0.2412 -0.0965

std. dev. 0.4597 0.3874

weight sum 21 63

precision 0.0274 0.0274

#### GENE1423X

mean 0.0773 -0.1073

std. dev. 0.3596 0.4937

weight sum 23 62

precision 0.0329 0.0329

#### GENE3827X

mean -0.0887 -0.131

std. dev. 0.8774 0.8344

weight sum 21 56

precision 0.0582 0.0582

#### GENE3828X

mean 0.0709 -0.067

std. dev. 0.5317 0.4629

weight sum 21 64

precision 0.0354 0.0354

#### GENE1392X

mean 0.0496 -0.0946

std. dev. 0.4246 0.389

weight sum 23 61

precision 0.0317 0.0317

#### GENE1396X

mean 0.0883 -0.051

std. dev. 0.542 0.4513

weight sum 20 60

precision 0.034 0.034

#### GENE1420X

mean 0.3959 -0.0983

std. dev. 0.6042 0.5771

weight sum 21 65

precision 0.0385 0.0385

#### GENE1429X

mean 0.2906 0.0266

std. dev. 0.4624 0.489

weight sum 23 64

precision 0.0386 0.0386

#### GENE1430X

mean 0.1455 -0.0128

std. dev. 0.464 0.5418

weight sum 21 63

precision 0.0322 0.0322

#### GENE1397X

mean 0.1139 0.0075

std. dev. 0.4706 0.3584

weight sum 21 56



precision 0.0352 0.0352

#### GENE1398X

mean 0.3343 -0.0702

std. dev. 0.6629 0.4837

weight sum 23 63

precision 0.0527 0.0527

#### GENE1405X

mean -0.0129 0.0339

std. dev. 0.5045 0.5367

weight sum 23 72

precision 0.037 0.037

#### GENE1406X

mean 0.0758 -0.0074

std. dev. 0.7724 0.6268

weight sum 23 71

precision 0.0436 0.0436

#### GENE1407X

mean -0.1689 0.0871

std. dev. 0.6195 0.5729

weight sum 23 70

precision 0.0356 0.0356

#### GENE1411X

mean -0.0077 -0.0312

std. dev. 0.5874 0.4458

weight sum 21 65

precision 0.0322 0.0322

#### GENE1410X

mean 0.1995 0.0704

std. dev. 0.6023 0.5453

weight sum 21 64

precision 0.053 0.053

#### GENE1409X

mean -0.0235 0.0934

std. dev. 0.5756 0.6049

weight sum 22 66

precision 0.0518 0.0518

#### GENE1408X

mean 0.1681 0.0439

std. dev. 0.6362 0.535

weight sum 21 67

precision 0.042 0.042

#### GENE1412X

mean 0.1276 0.0031

std. dev. 0.5667 0.5003

weight sum 20 67

precision 0.0412 0.0412

#### GENE1413X

mean 0.2317 0.1256

std. dev. 0.5982 0.5737

weight sum 21 60

precision 0.0392 0.0392

#### GENE1414X

mean 0.1486 -0.028

std. dev. 0.5336 0.4662

weight sum 20 57

precision 0.0371 0.0371

#### GENE1415X

mean 0.2457 0.1319

std. dev. 0.6657 0.6418

weight sum 19 58

precision 0.0432 0.0432

#### GENE1416X

mean 0.0618 0.0881

std. dev. 0.6481 0.5538

weight sum 22 71

precision 0.0389 0.0389

#### GENE1417X

mean -0.0049 0.1428

std. dev. 0.4947 0.4683

weight sum 21 64

precision 0.0342 0.0342

#### GENE1418X

mean -0.1036 0.1011

std. dev. 0.5568 0.5212

weight sum 22 65

precision 0.0447 0.0447

#### GENE1419X

mean 0.1428 0.0705

std. dev. 0.4539 0.637

weight sum 23 67

precision 0.0576 0.0576

#### GENE1404X

mean 0.2143 0.0415

std. dev. 0.5188 0.4601

weight sum 23 67

precision 0.0376 0.0376

#### GENE1403X

mean 0.2334 -0.0465

std. dev. 0.5878 0.6169

weight sum 23 71

precision 0.044 0.044

#### GENE1402X

mean 0.1236 -0.031

std. dev. 0.4488 0.4783

weight sum 18 64

precision 0.0405 0.0405

#### GENE1401X

mean 0.2111 -0.0304

std. dev. 0.5332 0.4247

weight sum 23 71

precision 0.0317 0.0317

#### GENE1400X

mean 0.1639 -0.03

std. dev. 0.4685 0.398

weight sum 23 70

precision 0.0397 0.0397

#### GENE1399X

mean 0.3483 -0.1312

std. dev. 0.5652 0.5577

weight sum 23 70

precision 0.0419 0.0419

#### GENE1395X

mean 0.0114 0.057

std. dev. 0.4927 0.6116

weight sum 23 72

precision 0.0526 0.0526

#### GENE1394X

mean -0.0951 0.0634

std. dev. 0.5156 0.5911

weight sum 22 72

precision 0.0343 0.0343

#### GENE1393X

mean 0.0231 0.0826

std. dev. 0.5602 0.4941

weight sum 21 60

precision 0.0347 0.0347

#### GENE1391X

mean 0.0385 -0.0275

std. dev. 0.3645 0.4519

weight sum 23 72

precision 0.0521 0.0521

#### GENE1390X

mean 0.0672 -0.0857

std. dev. 0.3299 0.3481

weight sum 22 70

precision 0.0279 0.0279

#### GENE3466X

mean 0.0793 -0.0398

std. dev. 0.378 0.4872

weight sum 23 71

precision 0.0358 0.0358

#### GENE3463X

mean 0.1071 -0.0761

std. dev. 0.3351 0.3898

weight sum 23 56

precision 0.029 0.029

#### GENE3462X

mean 0.2253 -0.0983

std. dev. 0.4579 0.4754

weight sum 23 70

precision 0.0396 0.0396

#### GENE3461X

mean 0.2203 -0.1013

std. dev. 0.3879 0.3578

weight sum 22 68

precision 0.033 0.033

#### GENE3460X

mean -0.0209 -0.015

std. dev. 0.5081 0.4571

weight sum 18 61



precision 0.0417 0.0417

#### GENE3459X

mean -0.0258 0.0129

std. dev. 0.4444 0.518

weight sum 20 65

precision 0.0645 0.0645

#### GENE3458X

mean 0.0505 -0.0167

std. dev. 0.2569 0.421

weight sum 19 67

precision 0.0533 0.0533

#### GENE3457X

mean -0.0429 0.0136

std. dev. 0.4621 0.3777

weight sum 21 69

precision 0.0346 0.0346

#### GENE3456X

mean -0.0522 -0.0718

std. dev. 0.4499 0.4911

weight sum 23 71

precision 0.0333 0.0333

#### GENE3455X

mean 0.1533 -0.1111

std. dev. 0.8107 1.3125

weight sum 23 69

precision 0.0767 0.0767

#### GENE1386X

mean 0.0936 0.0008

std. dev. 0.4732 0.6014

weight sum 20 56

precision 0.0457 0.0457

#### GENE1464X

mean -0.084 -0.0374

std. dev. 0.4152 0.6278

weight sum 22 71

precision 0.0385 0.0385

#### GENE1864X

mean -0.0167 -0.0801

std. dev. 0.4696 0.5296

weight sum 23 70

precision 0.0384 0.0384

#### GENE1871X

mean -0.2671 0.0871

std. dev. 0.5603 0.7435

weight sum 19 63

precision 0.059 0.059

#### GENE1873X

mean 0.0333 0.2621

std. dev. 0.654 0.8554

weight sum 22 64

precision 0.0489 0.0489

#### GENE1874X

mean -0.1473 0.2343

std. dev. 0.8929 0.8121

weight sum 21 66

precision 0.0491 0.0491

#### GENE1875X

mean -0.609 0.2909

std. dev. 0.5523 0.7932

weight sum 20 62

precision 0.0514 0.0514

#### GENE1884X

mean -0.4329 0.1082

std. dev. 0.5799 0.6606

weight sum 18 65

precision 0.0472 0.0472

#### GENE1883X

mean -0.1028 0.0744

std. dev. 0.5686 0.5061

weight sum 22 65

precision 0.039 0.039

#### GENE1882X

mean -0.1276 0.0412

std. dev. 0.4837 0.5486

weight sum 21 66

precision 0.0406 0.0406

#### GENE3891X

mean 0.0227 -0.1006

std. dev. 0.4591 0.7339

weight sum 18 65

precision 0.0584 0.0584

#### GENE3914X

mean 0.0781 -0.0975

std. dev. 0.5596 0.6284

weight sum 20 57

precision 0.0579 0.0579

#### GENE3168X

mean 0.0717 -0.0054

std. dev. 0.4165 0.3603

weight sum 23 72

precision 0.03 0.03

#### GENE3934X

mean 0.3918 -0.0735

std. dev. 0.3239 0.483

weight sum 23 72

precision 0.0392 0.0392

#### GENE3177X

mean -0.0035 0.0045

std. dev. 0.3701 0.4235

weight sum 21 57

precision 0.0366 0.0366

#### GENE3176X

mean 0.3689 -0.1414

std. dev. 0.6221 0.4938

weight sum 23 71

precision 0.0433 0.0433

#### GENE3175X

mean 0.082 -0.0626

std. dev. 0.3324 0.4341

weight sum 17 64

precision 0.0436 0.0436

#### GENE3174X

mean 0.1349 -0.0351

std. dev. 0.2907 0.4055

weight sum 18 62

precision 0.0363 0.0363

#### GENE3173X

mean 0.1836 -0.0785

std. dev. 0.3526 0.4714

weight sum 23 72

precision 0.0341 0.0341

#### GENE3172X

mean 0.0536 -0.0443

std. dev. 0.4582 0.6399

weight sum 23 69

precision 0.0493 0.0493

#### GENE3171X

mean 0.1299 -0.1022

std. dev. 0.6056 0.614

weight sum 23 70

precision 0.0453 0.0453

#### GENE3170X

mean 0.0073 -0.0485

std. dev. 0.4166 0.5231

weight sum 22 72

precision 0.0321 0.0321

#### GENE1437X

mean 0.0631 0.026

std. dev. 0.3684 0.366

weight sum 23 72

precision 0.0382 0.0382

#### GENE1436X

mean 0.1291 -0.0152

std. dev. 0.4721 0.3619

weight sum 23 72

precision 0.0391 0.0391

#### GENE1389X

mean -0.0099 -0.0308

std. dev. 0.4236 0.5658

weight sum 21 59

precision 0.052 0.052

#### GENE3410X

mean 0.1033 -0.0406

std. dev. 0.2561 0.3593

weight sum 22 70

precision 0.0271 0.0271

#### GENE1487X

mean 0.1554 -0.024

std. dev. 0.4024 0.4459

weight sum 23 71



precision 0.0267 0.0267

#### GENE1486X

mean 0.3125 0.0902

std. dev. 0.6158 0.6807

weight sum 22 66

precision 0.0709 0.0709

#### GENE1485X

mean 0.1964 -0.071

std. dev. 0.5938 0.5569

weight sum 22 71

precision 0.045 0.045

#### GENE1484X

mean 0.1677 -0.025

std. dev. 0.6263 0.5379

weight sum 23 71

precision 0.0521 0.0521

#### GENE1483X

mean 0.1614 -0.0262

std. dev. 0.3484 0.4417

weight sum 21 64

precision 0.0335 0.0335

#### GENE1482X

mean 0.0368 -0.0711

std. dev. 0.247 0.4535

weight sum 20 58

precision 0.0368 0.0368

#### GENE3169X

mean 0.2024 0.0937

std. dev. 0.4141 0.5213

weight sum 23 70

precision 0.0423 0.0423

#### GENE3163X

mean -0.0049 -0.06

std. dev. 0.3684 0.4581

weight sum 23 59

precision 0.0373 0.0373

#### GENE3162X

mean 0.0751 -0.0887

std. dev. 0.3485 0.4792

weight sum 22 70

precision 0.0447 0.0447

#### GENE3161X

mean -0.0626 -0.0279

std. dev. 0.2942 0.4952

weight sum 22 65

precision 0.0313 0.0313

#### GENE3160X

mean 0.0697 0.0165

std. dev. 0.3436 0.4903

weight sum 22 65

precision 0.0384 0.0384

#### GENE3159X

mean 0.0243 -0.0148

std. dev. 0.3116 0.3386

weight sum 23 68

precision 0.0266 0.0266

#### GENE4019X

mean -0.074 -0.0272

std. dev. 0.4347 0.4915

weight sum 20 66

precision 0.0448 0.0448

#### GENE4018X

mean 0.1043 -0.0873

std. dev. 0.4748 0.5005

weight sum 23 69

precision 0.0533 0.0533

#### GENE4017X

mean 0.4275 -0.0074

std. dev. 0.5325 0.5139

weight sum 23 72

precision 0.0531 0.0531

#### GENE3877X

mean 0.3239 -0.1556

std. dev. 0.4427 0.5366

weight sum 23 68

precision 0.0407 0.0407

#### GENE4003X

mean 0.5649 -0.1026

std. dev. 1.0192 0.9099

weight sum 22 62

precision 0.0723 0.0723

#### GENE4004X

mean 0.3482 -0.0918

std. dev. 1.081 0.96

weight sum 20 62

precision 0.067 0.067

#### GENE1819X

mean 0.1573 0.0507

std. dev. 0.9356 0.9446

weight sum 23 68

precision 0.0574 0.0574

#### GENE1818X

mean 0.3604 -0.1998

std. dev. 1.7556 1.4692

weight sum 23 68

precision 0.0999 0.0999

#### GENE1817X

mean 0.4419 -0.27

std. dev. 1.5887 1.3545

weight sum 22 72

precision 0.1034 0.1034

#### GENE1816X

mean 0.0872 -0.0722

std. dev. 0.3899 0.4752

weight sum 23 71

precision 0.0386 0.0386

#### GENE1815X

mean 0.3991 -0.2569

std. dev. 1.0505 1.0581

weight sum 23 72

precision 0.068 0.068

#### GENE1814X

mean 0.3834 0.0045

std. dev. 0.6663 0.5581

weight sum 22 69

precision 0.0444 0.0444

#### GENE1478X

mean 0.6737 -0.1349

std. dev. 0.8913 0.7686

weight sum 23 70

precision 0.0665 0.0665

#### GENE1479X

mean 0.6364 0.2309

std. dev. 1.268 1.3088

weight sum 23 65

precision 0.0747 0.0747

#### GENE1480X

mean 0.6286 0.0787

std. dev. 1.3241 1.4156

weight sum 20 59

precision 0.0967 0.0967

#### GENE1481X

mean 0.3799 -0.0362

std. dev. 0.9267 1.1207

weight sum 23 62

precision 0.0773 0.0773

#### GENE3969X

mean 0.2134 -0.0525

std. dev. 0.3496 0.4223

weight sum 23 71

precision 0.0358 0.0358

#### GENE3970X

mean 0.2906 -0.0818

std. dev. 0.4805 0.4902

weight sum 21 67

precision 0.0368 0.0368

#### GENE3971X

mean 0.1484 -0.0322

std. dev. 0.5364 0.526

weight sum 23 71

precision 0.0363 0.0363

#### GENE3972X

mean 0.4789 -0.0864

std. dev. 0.6007 0.5333

weight sum 23 72

precision 0.0432 0.0432

#### GENE3973X

mean 0.2358 -0.1065

std. dev. 0.4662 0.4813

weight sum 23 71



precision 0.0335 0.0335

#### GENE3974X

mean 0.3344 -0.1386

std. dev. 0.4549 0.6491

weight sum 23 70

precision 0.0503 0.0503

#### GENE3975X

mean 0.3639 -0.0807

std. dev. 0.4669 0.6372

weight sum 23 72

precision 0.0465 0.0465

#### GENE3976X

mean 0.3336 -0.0484

std. dev. 0.5161 0.6326

weight sum 23 70

precision 0.0471 0.0471

#### GENE3977X

mean 0.1276 0.0155

std. dev. 0.4186 0.4432

weight sum 22 70

precision 0.0319 0.0319

#### GENE3978X

mean 0.213 -0.0736

std. dev. 0.503 0.4742

weight sum 23 72

precision 0.0441 0.0441

#### GENE1803X

mean 0.1399 -0.0164

std. dev. 0.2666 0.3596

weight sum 21 65

precision 0.0334 0.0334

#### GENE1802X

mean 0.2356 -0.0132

std. dev. 0.4704 0.5001

weight sum 23 70

precision 0.0401 0.0401

#### GENE1804X

mean 0.3868 -0.132

std. dev. 0.7998 0.53

weight sum 22 71

precision 0.0617 0.0617

#### GENE3409X

mean 0.3974 -0.1127

std. dev. 0.6463 0.6634

weight sum 23 68

precision 0.0547 0.0547

#### GENE976X

mean 0.3596 -0.3136

std. dev. 0.6318 0.8816

weight sum 22 65

precision 0.0713 0.0713

#### GENE1779X

mean 0.2756 -0.1914

std. dev. 1.001 0.935

weight sum 23 71

precision 0.0507 0.0507

#### GENE1778X

mean 0.1903 -0.2398

std. dev. 0.9789 0.9502

weight sum 22 72

precision 0.0523 0.0523

#### GENE1777X

mean 0.2112 -0.2073

std. dev. 0.7776 0.746

weight sum 22 67

precision 0.0494 0.0494

#### GENE1776X

mean 0.7104 -0.459

std. dev. 1.1305 1.2062

weight sum 23 67

precision 0.0664 0.0664

#### GENE1775X

mean 0.2817 -0.2153

std. dev. 0.6183 0.7207

weight sum 23 71

precision 0.0395 0.0395

#### GENE1289X

mean 0.0028 -0.0823

std. dev. 0.8458 1.0409

weight sum 23 67

precision 0.0649 0.0649

#### GENE1800X

mean 0.199 -0.1012

std. dev. 0.3947 0.5438

weight sum 23 72

precision 0.0366 0.0366

#### GENE1801X

mean 0.2274 -0.0119

std. dev. 0.349 0.5143

weight sum 20 65

precision 0.0406 0.0406

#### GENE3088X

mean 0.1581 -0.0566

std. dev. 0.3273 0.3508

weight sum 23 70

precision 0.0325 0.0325

#### GENE3465X

mean 0.2286 -0.1033

std. dev. 0.434 0.53

weight sum 23 72

precision 0.0496 0.0496

#### GENE3535X

mean 0.1193 -0.0503

std. dev. 0.9044 1.0183

weight sum 23 71

precision 0.0638 0.0638

#### GENE1756X

mean 0.4168 -0.0854

std. dev. 0.5449 0.4961

weight sum 23 65

precision 0.0354 0.0354

#### GENE1755X

mean 0.2648 -0.1111

std. dev. 0.411 0.4442

weight sum 23 69

precision 0.035 0.035

#### GENE1534X

mean 0.4696 -0.0422

std. dev. 1.2654 1.3582

weight sum 22 66

precision 0.068 0.068

#### GENE1533X

mean 0.4128 -0.0421

std. dev. 1.1355 1.2829

weight sum 23 70

precision 0.0655 0.0655

#### GENE1703X

mean 0.5471 -0.1491

std. dev. 1.0009 0.8905

weight sum 20 57

precision 0.068 0.068

#### GENE1704X

mean 0.3189 -0.1838

std. dev. 0.8816 0.8812

weight sum 23 70

precision 0.0601 0.0601

#### GENE1705X

mean 0.3235 -0.1777

std. dev. 0.7043 0.8645

weight sum 23 67

precision 0.0783 0.0783

#### GENE1706X

mean 0.1686 -0.1254

std. dev. 0.8329 0.8067

weight sum 21 67

precision 0.0694 0.0694

#### GENE1707X

mean 0.3346 -0.221

std. dev. 0.6726 0.811

weight sum 23 72

precision 0.0647 0.0647

#### GENE1708X

mean 0.4035 -0.2122

std. dev. 0.6655 0.7477

weight sum 23 72

precision 0.0556 0.0556

#### GENE1709X

mean 0.2134 -0.138

std. dev. 0.9289 0.7115

weight sum 20 65



precision 0.0547 0.0547

#### GENE1710X

mean 0.2124 -0.1174

std. dev. 0.5217 0.4306

weight sum 22 71

precision 0.0374 0.0374

#### GENE3803X

mean 0.0981 -0.3619

std. dev. 0.96 1.2045

weight sum 23 72

precision 0.0728 0.0728

#### GENE3804X

mean 0.1863 -0.0562

std. dev. 0.5166 0.6715

weight sum 23 72

precision 0.0471 0.0471

#### GENE3805X

mean 0.1778 -0.0123

std. dev. 0.4765 0.7023

weight sum 23 71

precision 0.0487 0.0487

#### GENE3800X

mean 0.1946 -0.1955

std. dev. 0.7073 0.7237

weight sum 23 69

precision 0.0567 0.0567

#### GENE1120X

mean -0.1693 0.0496

std. dev. 0.9403 0.9896

weight sum 23 72

precision 0.0811 0.0811

#### GENE1121X

mean -0.1133 0.0929

std. dev. 0.9167 0.8292

weight sum 23 69

precision 0.0543 0.0543

#### GENE1122X

mean -0.0766 0.0595

std. dev. 0.8924 1.0926

weight sum 23 71

precision 0.088 0.088

#### GENE1123X

mean -0.1216 -0.0587

std. dev. 1.0208 0.8646

weight sum 23 72

precision 0.0595 0.0595

#### GENE1124X

mean -0.0912 -0.1186

std. dev. 1.0376 0.8688

weight sum 23 72

precision 0.0749 0.0749

#### GENE1125X

mean 0.2703 -0.1727

std. dev. 1.2078 0.8011

weight sum 23 72

precision 0.0715 0.0715

#### GENE1126X

mean 0.2361 -0.2088

std. dev. 1.0986 0.8614

weight sum 23 72

precision 0.0787 0.0787

#### GENE1127X

mean 0.1865 -0.2439

std. dev. 1.1936 0.8604

weight sum 23 71

precision 0.078 0.078

#### GENE1128X

mean 0.2007 -0.2097

std. dev. 1.131 0.8792

weight sum 23 72

precision 0.0782 0.0782

#### GENE1129X

mean 0.2286 -0.2001

std. dev. 1.1599 0.8293

weight sum 23 71

precision 0.0683 0.0683

#### GENE1130X

mean 0.2468 -0.2199

std. dev. 1.0619 0.7811

weight sum 23 72

precision 0.0597 0.0597

#### GENE1131X

mean 0.423 -0.1143

std. dev. 0.7326 0.6146

weight sum 23 72

precision 0.0455 0.0455

#### GENE1132X

mean 0.127 -0.1601

std. dev. 0.7173 0.6916

weight sum 20 71

precision 0.0416 0.0416

#### GENE1797X

mean 0.2548 -0.1019

std. dev. 0.6867 0.9575

weight sum 23 57

precision 0.0553 0.0553

#### GENE1796X

mean 0.373 -0.2225

std. dev. 1.1061 1.1644

weight sum 23 67

precision 0.0833 0.0833

#### GENE1795X

mean 0.0632 -0.1927

std. dev. 0.8425 0.923

weight sum 22 64

precision 0.0632 0.0632

#### GENE1794X

mean 0.0308 -0.0863

std. dev. 0.8629 0.9143

weight sum 23 65

precision 0.0644 0.0644

#### GENE1793X

mean 0.1467 -0.0556

std. dev. 0.5251 0.4956

weight sum 21 57

precision 0.044 0.044

#### GENE1792X

mean 0.3302 0.1797

std. dev. 0.7518 0.916

weight sum 20 62

precision 0.0574 0.0574

#### GENE1791X

mean 0.2175 -0.0119

std. dev. 0.881 0.6385

weight sum 22 61

precision 0.0557 0.0557

#### GENE1790X

mean 0.0743 -0.0551

std. dev. 0.4613 0.3947

weight sum 20 57

precision 0.0338 0.0338

#### GENE1348X

mean 0.4538 -0.0438

std. dev. 0.6631 0.8953

weight sum 23 69

precision 0.0549 0.0549

#### GENE1551X

mean 0.6726 -0.4338

std. dev. 0.951 1.1913

weight sum 23 63

precision 0.0926 0.0926

#### GENE1552X

mean 0.5398 -0.3964

std. dev. 0.9979 1.1015

weight sum 23 56

precision 0.0822 0.0822

#### GENE3964X

mean 0.5632 -0.5355

std. dev. 0.8891 1.408

weight sum 23 70

precision 0.0981 0.0981

#### GENE1784X

mean 0.2673 -0.075

std. dev. 0.5107 0.6036

weight sum 23 71

precision 0.0433 0.0433

#### GENE1785X

mean 0.3022 -0.0785

std. dev. 0.6515 0.6779

weight sum 21 68



precision 0.0373 0.0373

#### GENE1786X

mean 0.3379 0.0283

std. dev. 0.465 0.6278

weight sum 23 71

precision 0.0395 0.0395

#### GENE1506X

mean 0.4807 0.0291

std. dev. 0.8514 1.131

weight sum 22 65

precision 0.086 0.086

#### GENE1507X

mean 0.2717 0.0122

std. dev. 0.8371 0.9631

weight sum 23 70

precision 0.0856 0.0856

#### GENE1508X

mean 0.0487 0.037

std. dev. 0.7061 0.8249

weight sum 20 57

precision 0.0811 0.0811

#### GENE1509X

mean 0.2186 -0.0988

std. dev. 0.5422 0.5595

weight sum 21 60

precision 0.0446 0.0446

#### GENE1510X

mean 0.1965 0.0278

std. dev. 0.499 0.4483

weight sum 20 66

precision 0.0374 0.0374

#### GENE1764X

mean 0.3117 0.0677

std. dev. 0.5162 0.6935

weight sum 22 58

precision 0.0623 0.0623

#### GENE1763X

mean -0.078 -0.2

std. dev. 0.8367 1.0293

weight sum 20 61

precision 0.0557 0.0557

#### GENE1488X

mean 0.1655 0.0488

std. dev. 0.4827 0.7342

weight sum 22 65

precision 0.052 0.052

#### GENE1499X

mean 0.2174 -0.0711

std. dev. 0.2385 0.3631

weight sum 22 65

precision 0.0233 0.0233

#### GENE1757X

mean 0.2583 -0.0609

std. dev. 0.6738 0.533

weight sum 23 67

precision 0.0517 0.0517

#### GENE1511X

mean 0.2056 -0.083

std. dev. 0.4463 0.4535

weight sum 23 71

precision 0.0343 0.0343

#### GENE1527X

mean -0.1647 -0.0946

std. dev. 0.968 1.1977

weight sum 20 59

precision 0.0716 0.0716

#### GENE1528X

mean 0.3913 -0.0054

std. dev. 0.8846 0.9408

weight sum 23 56

precision 0.06 0.06

#### GENE1529X

mean 0.2613 0.003

std. dev. 0.7647 0.7403

weight sum 23 58

precision 0.0572 0.0572

#### GENE1526X

mean 0.2959 -0.1502

std. dev. 0.2957 0.4361

weight sum 22 69

precision 0.0306 0.0306

#### GENE384X

mean 1.1699 -0.4346

std. dev. 0.9093 1.0294

weight sum 23 72

precision 0.0569 0.0569

#### GENE3464X

mean 0.2614 -0.1916

std. dev. 0.4531 0.5786

weight sum 20 58

precision 0.0471 0.0471

#### GENE3598X

mean 0.0403 -0.1413

std. dev. 0.2909 0.5464

weight sum 23 70

precision 0.0421 0.0421

#### GENE3597X

mean 0.1158 -0.1464

std. dev. 0.3236 0.5608

weight sum 23 70

precision 0.0451 0.0451

#### GENE1568X

mean 0.2919 -0.0798

std. dev. 0.2796 0.375

weight sum 23 72

precision 0.0254 0.0254

#### GENE3587X

mean 0.1586 -0.1112

std. dev. 0.3345 0.4553

weight sum 23 71

precision 0.0351 0.0351

#### GENE3586X

mean 0.2247 -0.0778

std. dev. 0.4824 0.3927

weight sum 20 65

precision 0.0296 0.0296

#### GENE3585X

mean 0.2191 -0.1424

std. dev. 0.343 0.42

weight sum 23 63

precision 0.0317 0.0317

#### GENE393X

mean 0.2959 -0.0474

std. dev. 0.4533 0.4739

weight sum 23 70

precision 0.0332 0.0332

#### GENE492X

mean 0.4064 -0.1237

std. dev. 0.5256 0.5134

weight sum 23 72

precision 0.0439 0.0439

#### GENE3588X

mean 0.465 -0.1534

std. dev. 0.6015 0.6009

weight sum 23 72

precision 0.0497 0.0497

#### GENE3589X

mean 0.3519 -0.0416

std. dev. 0.4372 0.7574

weight sum 23 70

precision 0.0529 0.0529

#### GENE3590X

mean 0.3512 -0.1684

std. dev. 0.5344 0.6148

weight sum 23 71

precision 0.0392 0.0392

#### GENE3591X

mean 0.1268 -0.077

std. dev. 0.2786 0.3969

weight sum 23 72

precision 0.0317 0.0317

#### GENE3592X

mean 0.3323 -0.0992

std. dev. 0.4809 0.7164

weight sum 20 65

precision 0.0496 0.0496

#### GENE3593X

mean 0.1682 -0.166

std. dev. 0.3956 0.8795

weight sum 22 72



precision 0.05 0.05

#### GENE3582X

mean 0.1148 -0.1138

std. dev. 0.3923 0.5839

weight sum 21 64

precision 0.0524 0.0524

#### GENE3583X

mean 0.2315 -0.0862

std. dev. 0.4677 0.6174

weight sum 23 69

precision 0.0444 0.0444

#### GENE3584X

mean 0.2596 -0.0512

std. dev. 0.4783 0.6767

weight sum 23 64

precision 0.0585 0.0585

#### GENE3573X

mean 0.5746 -0.2692

std. dev. 0.5147 0.68

weight sum 23 70

precision 0.0612 0.0612

#### GENE3574X

mean 0.5539 -0.2447

std. dev. 0.6349 0.6873

weight sum 22 68

precision 0.0537 0.0537

#### GENE3572X

mean 0.1056 -0.0971

std. dev. 0.4603 0.5164

weight sum 23 72

precision 0.0419 0.0419

#### GENE3571X

mean 0.1211 -0.0826

std. dev. 0.5476 0.5372

weight sum 23 72

precision 0.0416 0.0416

#### GENE3599X

mean 0.2082 -0.1201

std. dev. 0.2956 0.3939

weight sum 17 62

precision 0.0407 0.0407

#### GENE3580X

mean 0.0641 -0.0861

std. dev. 0.581 0.6324

weight sum 23 71

precision 0.0422 0.0422

#### GENE3576X

mean 0.3609 -0.2056

std. dev. 0.5701 0.8542

weight sum 23 70

precision 0.0525 0.0525

#### GENE3575X

mean 0.2889 -0.1906

std. dev. 0.5618 0.7576

weight sum 23 71

precision 0.0492 0.0492

#### GENE1716X

mean 0.2697 -0.0688

std. dev. 0.6173 0.6119

weight sum 23 72

precision 0.0431 0.0431

#### GENE1715X

mean 0.005 -0.0011

std. dev. 0.4357 0.4436

weight sum 20 60

precision 0.0334 0.0334

#### GENE1714X

mean 0.2378 -0.1146

std. dev. 0.5334 0.5609

weight sum 23 72

precision 0.0328 0.0328

#### GENE1711X

mean 0.5592 -0.2408

std. dev. 1.1277 0.9916

weight sum 23 70

precision 0.0727 0.0727

#### GENE1713X

mean 0.3971 -0.0828

std. dev. 0.6387 0.6428

weight sum 23 72

precision 0.0634 0.0634

#### GENE1712X

mean 0.3932 -0.0501

std. dev. 0.8164 0.6633

weight sum 23 72

precision 0.0508 0.0508

#### GENE473X

mean 0.471 -0.2327

std. dev. 0.4381 0.6955

weight sum 23 63

precision 0.043 0.043

#### GENE472X

mean 0.6742 -0.1563

std. dev. 0.4533 0.7452

weight sum 23 72

precision 0.0538 0.0538

#### GENE471X

mean 0.6001 -0.1443

std. dev. 0.5965 0.6739

weight sum 23 68

precision 0.0554 0.0554

#### GENE470X

mean 0.4823 -0.0651

std. dev. 0.55 0.5704

weight sum 22 67

precision 0.0485 0.0485

#### GENE469X

mean 0.4501 -0.1118

std. dev. 0.6946 0.5354

weight sum 22 72

precision 0.0529 0.0529

#### GENE3569X

mean 0.3102 -0.0641

std. dev. 0.628 0.4452

weight sum 23 66

precision 0.0661 0.0661

#### GENE3568X

mean 0.2122 -0.0631

std. dev. 0.6259 0.4862

weight sum 23 72

precision 0.0568 0.0568

#### GENE3567X

mean 0.1866 -0.1083

std. dev. 0.392 0.4439

weight sum 22 72

precision 0.0513 0.0513

#### GENE3566X

mean 0.3046 -0.1492

std. dev. 0.347 0.5918

weight sum 23 70

precision 0.0419 0.0419

#### GENE3565X

mean 0.2757 -0.0701

std. dev. 0.3053 0.4649

weight sum 23 72

precision 0.038 0.038

#### GENE3579X

mean 0.3251 -0.0446

std. dev. 0.4524 0.4436

weight sum 23 72

precision 0.0328 0.0328

#### GENE1561X

mean 0.2295 -0.0602

std. dev. 0.4862 0.4943

weight sum 23 72

precision 0.0523 0.0523

#### GENE1560X

mean 0.3272 -0.0855

std. dev. 0.3519 0.3709

weight sum 23 71

precision 0.0285 0.0285

#### GENE477X

mean 0.2562 -0.1138

std. dev. 0.3823 0.6222

weight sum 23 72

precision 0.0418 0.0418

#### GENE478X

mean 0.2876 0.0116

std. dev. 0.371 0.499

weight sum 23 72



precision 0.0364 0.0364

#### GENE3564X

mean 0.2614 -0.0684

std. dev. 0.4424 0.421

weight sum 23 70

precision 0.0396 0.0396

#### GENE3605X

mean 0.267 -0.0853

std. dev. 0.3113 0.4272

weight sum 23 72

precision 0.0424 0.0424

#### GENE3563X

mean 0.0736 0.015

std. dev. 0.3701 0.4205

weight sum 23 71

precision 0.0253 0.0253

#### GENE3562X

mean 0.0407 -0.0558

std. dev. 0.4655 0.4182

weight sum 21 71

precision 0.0388 0.0388

#### GENE3561X

mean 0.0725 -0.0203

std. dev. 0.4158 0.6097

weight sum 23 72

precision 0.0417 0.0417

#### GENE3513X

mean 0.0152 -0.1587

std. dev. 0.3275 0.4958

weight sum 23 71

precision 0.035 0.035

#### GENE3596X

mean 0.2633 -0.147

std. dev. 0.4081 0.5231

weight sum 23 69

precision 0.0358 0.0358

#### GENE385X

mean 0.6381 -0.1099

std. dev. 0.467 0.4346

weight sum 23 71

precision 0.0384 0.0384

#### GENE386X

mean 0.4842 -0.0744

std. dev. 0.4285 0.4161

weight sum 23 71

precision 0.0286 0.0286

#### GENE387X

mean 0.4665 -0.0959

std. dev. 0.5906 0.5182

weight sum 23 54

precision 0.0408 0.0408

#### GENE1422X

mean 0.1934 -0.0717

std. dev. 0.3671 0.4183

weight sum 23 72

precision 0.0299 0.0299

#### GENE3581X

mean 0.1472 0.0287

std. dev. 0.4295 0.4726

weight sum 22 71

precision 0.0308 0.0308

#### GENE3578X

mean 0.2387 -0.0787

std. dev. 0.4812 0.5873

weight sum 23 72

precision 0.0436 0.0436

#### GENE3594X

mean 0.2935 -0.195

std. dev. 0.597 0.9167

weight sum 23 71

precision 0.0496 0.0496

#### GENE3595X

mean 0.1882 -0.2649

std. dev. 0.6052 0.909

weight sum 23 65

precision 0.0509 0.0509

#### GENE1535X

mean 0.1883 -0.0501

std. dev. 0.6401 0.5777

weight sum 23 72

precision 0.038 0.038

GENE1536X

mean 0.3793 -0.06

std. dev. 0.6094 0.6569

weight sum 23 72

precision 0.0415 0.0415

GENE1537X

mean 0.5493 -0.0976

std. dev. 0.3673 0.4314

weight sum 23 71

precision 0.0383 0.0383

GENE1559X

mean 0.366 -0.1511

std. dev. 0.5439 0.5126

weight sum 23 72

precision 0.0361 0.0361

GENE1752X

mean 0.4121 -0.1421

std. dev. 0.6022 0.5799

weight sum 23 64

precision 0.0385 0.0385

#### GENE1565X

mean 0.5823 -0.0188

std. dev. 0.5988 0.8047

weight sum 22 62

precision 0.0832 0.0832

#### GENE1563X

mean 0.3325 0.0178

std. dev. 0.473 0.4207

weight sum 23 69

precision 0.0371 0.0371

#### GENE1564X

mean 0.6314 0.0083

std. dev. 0.9233 0.7331

weight sum 22 56

precision 0.0665 0.0665

#### GENE1540X

mean 0.2166 -0.0498

std. dev. 0.2752 0.2929

weight sum 22 63

precision 0.0226 0.0226

#### GENE1541X

mean 0.4932 -0.2017

std. dev. 0.7446 0.7666

weight sum 23 65

precision 0.0491 0.0491

#### GENE1532X

mean 0.6557 -0.0569

std. dev. 0.5808 0.6456

weight sum 21 65

precision 0.0393 0.0393

#### GENE1754X

mean 0.3887 -0.0073

std. dev. 0.8836 0.6168

weight sum 22 61

precision 0.0555 0.0555

#### GENE1740X

mean 0.7432 -0.0633

std. dev. 0.6828 0.5863

weight sum 19 66

precision 0.0497 0.0497

#### GENE1741X

mean 0.6614 -0.1238

std. dev. 0.6471 0.721

weight sum 23 70

precision 0.0559 0.0559

#### GENE1742X

mean 1.3854 0.137

std. dev. 1.6611 1.247

weight sum 23 55

precision 0.1076 0.1076

#### GENE1745X

mean 0.2431 -0.0607

std. dev. 0.594 0.5462

weight sum 23 70

precision 0.0383 0.0383

#### GENE1730X

mean 0.3304 -0.5294

std. dev. 1.2504 1.5642

weight sum 23 68



precision 0.08 0.08

#### GENE1731X

mean 0.5084 -0.1359

std. dev. 0.8137 0.9824

weight sum 23 72

precision 0.0466 0.0466

#### GENE1732X

mean 0.5292 -0.2357

std. dev. 0.5632 0.9087

weight sum 23 72

precision 0.0571 0.0571

#### GENE1576X

mean 0.2721 -0.2132

std. dev. 0.6464 0.6436

weight sum 23 71

precision 0.0364 0.0364

#### GENE1577X

mean 0.2852 -0.2334

std. dev. 0.5857 0.7544

weight sum 23 71

precision 0.0421 0.0421

#### GENE1578X

mean 0.4497 -0.2685

std. dev. 0.6166 0.9613

weight sum 23 72

precision 0.052 0.052

#### GENE1579X

mean 0.4091 -0.4998

std. dev. 1.0272 1.3988

weight sum 23 71

precision 0.0825 0.0825

#### GENE1580X

mean 0.4033 -0.323

std. dev. 0.5744 0.8455

weight sum 23 61

precision 0.0501 0.0501

#### GENE1581X

mean 0.5697 -0.294

std. dev. 0.5461 0.9245

weight sum 22 66

precision 0.0501 0.0501

#### GENE1582X

mean 0.4575 -0.2002

std. dev. 0.4997 0.7963

weight sum 23 65

precision 0.0462 0.0462

#### GENE1700X

mean 0.6292 -0.2327

std. dev. 0.6863 0.6562

weight sum 22 64

precision 0.0526 0.0526

#### GENE1583X

mean 0.5716 -0.3426

std. dev. 0.7597 0.926

weight sum 23 64

precision 0.0496 0.0496

#### GENE1584X

mean 0.6288 -0.0388

std. dev. 1.0379 0.8412

weight sum 23 66

precision 0.061 0.061

#### GENE1585X

mean 0.321 -0.1072

std. dev. 0.5194 0.4275

weight sum 23 71

precision 0.033 0.033

#### GENE1586X

mean 0.5184 -0.0445

std. dev. 1.0156 0.9765

weight sum 22 67

precision 0.0648 0.0648

#### GENE1587X

mean 0.4583 -0.0812

std. dev. 0.7819 0.713

weight sum 22 69

precision 0.0376 0.0376

#### GENE1588X

mean 0.4367 -0.1769

std. dev. 0.7235 0.745

weight sum 22 67

precision 0.0534 0.0534

#### GENE1592X

mean 0.478 -0.1748

std. dev. 0.9668 1.0321

weight sum 22 64

precision 0.0608 0.0608

#### GENE1591X

mean 0.2595 -0.1038

std. dev. 0.9358 1.0842

weight sum 23 71

precision 0.0585 0.0585

#### GENE1590X

mean 0.5533 -0.1272

std. dev. 0.8613 0.7103

weight sum 23 70

precision 0.0627 0.0627

#### GENE1589X

mean 0.5639 -0.2493

std. dev. 1.1404 0.9844

weight sum 23 58

precision 0.1063 0.1063

#### GENE1593X

mean 0.6589 -0.2196

std. dev. 1.0588 0.9753

weight sum 23 69

precision 0.0705 0.0705

#### GENE1594X

mean 0.6278 -0.1667

std. dev. 0.608 0.8369

weight sum 21 57

precision 0.0576 0.0576

#### GENE1595X

mean 0.4419 -0.1816

std. dev. 0.6728 0.8965

weight sum 22 62

precision 0.0496 0.0496

#### GENE1596X

mean 0.4315 -0.2083

std. dev. 0.6282 0.8354

weight sum 22 65

precision 0.044 0.044

#### GENE1597X

mean 0.3387 -0.0589

std. dev. 0.5618 0.6362

weight sum 22 67

precision 0.0403 0.0403

#### GENE1598X

mean 0.868 0.1019

std. dev. 0.8835 0.9683

weight sum 17 60

precision 0.0617 0.0617

#### GENE1599X

mean 0.8697 -0.1674

std. dev. 1.0618 1.0993

weight sum 23 71

precision 0.058 0.058

#### GENE1600X

mean 0.9369 -0.1493

std. dev. 1.0835 1.077

weight sum 22 71

precision 0.0654 0.0654

#### GENE1601X

mean 0.8287 -0.0651

std. dev. 0.9417 0.9987

weight sum 20 66

precision 0.0623 0.0623

#### GENE1608X

mean 0.6181 -0.4925

std. dev. 0.8965 1.2505

weight sum 23 67

precision 0.0661 0.0661

#### GENE1607X

mean 0.7207 -0.4399

std. dev. 0.8643 1.2785

weight sum 23 72

precision 0.0643 0.0643

#### GENE1606X

mean 0.8627 -0.3036

std. dev. 1.047 1.2392

weight sum 23 72



precision 0.0651 0.0651

#### GENE1605X

mean 1.0523 -0.2824

std. dev. 1.0859 1.2289

weight sum 23 70

precision 0.0727 0.0727

#### GENE1604X

mean 0.4773 -0.1758

std. dev. 0.6079 0.7205

weight sum 23 72

precision 0.0467 0.0467

#### GENE1603X

mean 0.5242 -0.301

std. dev. 0.7338 0.9601

weight sum 23 72

precision 0.0469 0.0469

#### GENE1602X

mean 0.3955 -0.102

std. dev. 0.5229 0.5876

weight sum 23 72

precision 0.0365 0.0365

#### GENE1684X

mean 0.4926 -0.1782

std. dev. 0.6052 0.6757

weight sum 23 65

precision 0.0424 0.0424

#### GENE1690X

mean 0.4823 -0.098

std. dev. 0.4731 0.5137

weight sum 23 72

precision 0.0377 0.0377

#### GENE1681X

mean 0.5961 0.0207

std. dev. 0.7598 0.7334

weight sum 22 61

precision 0.0504 0.0504

#### GENE1667X

mean 1.0336 0.0602

std. dev. 1.3085 1.0475

weight sum 20 57

precision 0.0715 0.0715

#### GENE1669X

mean 0.9214 -0.0202

std. dev. 1.1706 1.0181

weight sum 23 63

precision 0.0671 0.0671

#### GENE1675X

mean 0.9163 -0.0517

std. dev. 1.1561 1.1155

weight sum 23 72

precision 0.0745 0.0745

#### GENE1676X

mean 1.0417 -0.1411

std. dev. 0.7928 0.7893

weight sum 23 72

precision 0.0686 0.0686

#### GENE1672X

mean 1.0498 -0.2876

std. dev. 0.6893 1.1153

weight sum 23 71

precision 0.0632 0.0632

#### GENE1673X

mean 0.9693 -0.3367

std. dev. 0.686 1.1429

weight sum 23 72

precision 0.065 0.065

#### GENE1674X

mean 0.4879 -0.2563

std. dev. 0.7093 1.0341

weight sum 23 72

precision 0.0623 0.0623

#### GENE1614X

mean 0.6927 -0.0712

std. dev. 0.546 0.5676

weight sum 23 72

precision 0.0366 0.0366

#### GENE1613X

mean 0.9385 -0.01

std. dev. 0.7123 0.7564

weight sum 23 71

precision 0.0474 0.0474

#### GENE1612X

mean 1.1972 0.0293

std. dev. 1.015 0.9359

weight sum 23 72

precision 0.0541 0.0541

#### GENE1611X

mean 1.0497 -0.1032

std. dev. 1.0288 0.9837

weight sum 23 72

precision 0.0619 0.0619

#### GENE1610X

mean 2.294 -0.4279

std. dev. 1.4127 1.6804

weight sum 23 72

precision 0.0942 0.0942

#### GENE1609X

mean 2.496 -0.1778

std. dev. 1.541 1.3951

weight sum 23 63

precision 0.0926 0.0926

#### GENE1670X

mean 0.5868 0.0738

std. dev. 0.7303 0.6585

weight sum 23 72

precision 0.0422 0.0422

#### GENE1671X

mean 0.5172 -0.1133

std. dev. 0.626 0.5798

weight sum 22 66

precision 0.0415 0.0415

#### GENE1615X

mean 0.8336 -0.3445

std. dev. 0.7251 0.8988

weight sum 23 71

precision 0.0509 0.0509

#### GENE1621X

mean 0.7514 -0.3672

std. dev. 1.2313 1.4474

weight sum 21 62

precision 0.0721 0.0721

#### GENE1625X

mean 0.6249 -0.1981

std. dev. 0.9339 0.9484

weight sum 23 72

precision 0.0538 0.0538

#### GENE1624X

mean 0.8239 -0.1378

std. dev. 1.0263 1.1152

weight sum 22 70

precision 0.0731 0.0731

#### GENE1623X

mean 0.6933 -0.1647

std. dev. 0.7716 0.8971

weight sum 23 72

precision 0.0567 0.0567

#### GENE1622X

mean 1.1458 -0.5243

std. dev. 0.7931 1.2925

weight sum 23 71

precision 0.0659 0.0659

#### GENE1616X

mean 1.2764 -0.483

std. dev. 1.335 1.3528

weight sum 23 56

precision 0.1005 0.1005

#### GENE1617X

mean 1.5068 -0.3949

std. dev. 1.2952 1.2805

weight sum 23 64

precision 0.0903 0.0903

#### GENE1618X

mean 1.3843 -0.4038

std. dev. 1.4556 1.3985

weight sum 23 60

precision 0.0875 0.0875

#### GENE1619X

mean 1.4676 -0.4606

std. dev. 1.4 1.3583

weight sum 23 62



precision 0.0825 0.0825

#### GENE1620X

mean 1.2557 -0.2335

std. dev. 0.9331 1.0174

weight sum 22 62

precision 0.0635 0.0635

#### GENE1629X

mean 0.7537 0.0402

std. dev. 1.0971 0.9088

weight sum 21 59

precision 0.0697 0.0697

#### GENE1630X

mean 1.0821 -0.0092

std. dev. 1.3284 0.8423

weight sum 21 61

precision 0.0701 0.0701

#### GENE1655X

mean 0.5641 -0.0258

std. dev. 0.8535 0.8295

weight sum 22 65

precision 0.0577 0.0577

#### GENE1628X

mean 0.8919 -0.0957

std. dev. 0.9052 0.8384

weight sum 23 67

precision 0.0605 0.0605

#### GENE1627X

mean 1.1713 -0

std. dev. 1.4982 1.14

weight sum 23 56

precision 0.0962 0.0962

#### GENE1626X

mean 1.1772 0.2138

std. dev. 1.4918 1.1192

weight sum 21 57

precision 0.0864 0.0864

#### GENE1631X

mean 0.5471 -0.0807

std. dev. 0.5192 0.6718

weight sum 23 69

precision 0.0392 0.0392

#### GENE1632X

mean 0.8684 0.0813

std. dev. 0.8583 0.8939

weight sum 23 70

precision 0.0434 0.0434

#### GENE1633X

mean 0.6815 -0.078

std. dev. 0.6776 0.8917

weight sum 23 67

precision 0.0471 0.0471

#### GENE1652X

mean 1.1258 -0.1445

std. dev. 1.6765 1.4411

weight sum 23 66

precision 0.0909 0.0909

#### GENE1651X

mean 1.1797 -0.1556

std. dev. 1.6004 1.8407

weight sum 22 57

precision 0.0821 0.0821

#### GENE1650X

mean 1.065 -0.1271

std. dev. 1.3838 1.6596

weight sum 21 58

precision 0.0847 0.0847

#### GENE1649X

mean 1.2241 -0.0292

std. dev. 1.4346 1.3992

weight sum 22 57

precision 0.0724 0.0724

#### GENE1646X

mean 1.524 -0.2079

std. dev. 1.3967 1.6919

weight sum 22 63

precision 0.0977 0.0977

#### GENE1648X

mean 1.6289 -0.2062

std. dev. 1.3672 1.6187

weight sum 23 70

precision 0.0859 0.0859

#### GENE1647X

mean 1.5403 -0.31

std. dev. 1.2956 1.5383

weight sum 23 72

precision 0.0904 0.0904

#### GENE1645X

mean 1.1732 -0.4859

std. dev. 1.7483 1.7182

weight sum 22 57

precision 0.1179 0.1179

#### GENE1644X

mean 1.0161 -0.4851

std. dev. 1.3965 1.4441

weight sum 23 68

precision 0.0795 0.0795

#### GENE1643X

mean 0.9782 -0.4923

std. dev. 1.4561 1.5776

weight sum 23 61

precision 0.093 0.093

#### GENE1642X

mean 0.6499 -0.2

std. dev. 0.7555 0.7512

weight sum 22 58

precision 0.0466 0.0466

#### GENE1641X

mean 1.4398 -0.4098

std. dev. 2.0689 2.3936

weight sum 22 57

precision 0.1139 0.1139

#### GENE1640X

mean 1.1088 -0.0982

std. dev. 1.8403 2.0439

weight sum 22 56

precision 0.1038 0.1038

#### GENE1639X

mean 1.1742 0.4874

std. dev. 1.7277 1.6915

weight sum 22 66

precision 0.0833 0.0833

#### GENE1638X

mean 1.6945 0.1542

std. dev. 1.728 1.7325

weight sum 23 59

precision 0.0989 0.0989

#### GENE1635X

mean 1.646 0.0794

std. dev. 1.4526 1.6432

weight sum 23 72

precision 0.0893 0.0893

#### GENE1636X

mean 2.5794 0.4786

std. dev. 2.0853 2.5161

weight sum 23 69

precision 0.0989 0.0989

#### GENE1637X

mean 1.8846 0.401

std. dev. 1.4538 1.6225

weight sum 23 71

precision 0.0712 0.0712

#### GENE1634X

mean 1.2771 0.4617

std. dev. 1.3111 1.8453

weight sum 23 63

precision 0.0947 0.0947

#### GENE1654X

mean 0.6716 0.0942

std. dev. 0.9542 0.9417

weight sum 21 56

precision 0.0659 0.0659

#### GENE1653X

mean 1.2543 -0.104

std. dev. 1.0632 1.4232

weight sum 21 69

precision 0.0677 0.0677

#### GENE1656X

mean 0.6797 0.077

std. dev. 0.6997 0.7689

weight sum 23 70



precision 0.0495 0.0495

#### GENE1657X

mean 0.6266 -0.0594

std. dev. 0.5692 0.5409

weight sum 23 72

precision 0.0366 0.0366

#### GENE1658X

mean 1.1451 -0.5323

std. dev. 1.5741 1.5297

weight sum 23 72

precision 0.0693 0.0693

#### GENE1659X

mean 1.2126 -0.4864

std. dev. 1.5821 1.5772

weight sum 23 70

precision 0.0833 0.0833

#### GENE1660X

mean 0.3843 -0.3298

std. dev. 0.8939 1.0313

weight sum 23 65

precision 0.0696 0.0696

#### GENE1661X

mean 0.8294 -0.4932

std. dev. 1.4371 1.454

weight sum 23 70

precision 0.0788 0.0788

#### GENE1662X

mean 0.5574 -0.2157

std. dev. 1.0081 0.9211

weight sum 23 71

precision 0.0519 0.0519

#### GENE1663X

mean 0.3043 -0.3023

std. dev. 1.0533 1.1487

weight sum 23 58

precision 0.0654 0.0654

#### GENE1664X

mean 0.7895 0.0034

std. dev. 1.2079 1.0995

weight sum 20 56

precision 0.0945 0.0945

#### GENE1665X

mean 0.5634 0.0337

std. dev. 0.7787 0.914

weight sum 23 64

precision 0.0635 0.0635

#### GENE1668X

mean 1.0104 0.0049

std. dev. 1.247 0.8925

weight sum 22 64

precision 0.0632 0.0632

#### GENE1680X

mean 0.6086 -0.0756

std. dev. 0.794 0.6349

weight sum 20 59

precision 0.0551 0.0551

#### GENE1666X

mean 0.6494 -0.0629

std. dev. 1.0003 0.6567

weight sum 21 59

precision 0.058 0.058

#### GENE1679X

mean 0.4565 -0.1351

std. dev. 0.7367 1.0347

weight sum 23 55

precision 0.0682 0.0682

#### GENE1678X

mean 0.4775 -0.0794

std. dev. 0.6264 0.7905

weight sum 22 56

precision 0.0536 0.0536

#### GENE1677X

mean 0.3776 -0.156

std. dev. 0.5853 0.857

weight sum 22 64

precision 0.0729 0.0729

#### GENE1683X

mean 0.375 -0.106

std. dev. 0.5971 0.6632

weight sum 23 59

precision 0.0539 0.0539

#### GENE1682X

mean 0.3918 -0.0269

std. dev. 0.7062 0.7313

weight sum 22 67

precision 0.0582 0.0582

#### GENE1685X

mean 0.54 -0.1521

std. dev. 1.1791 1.0317

weight sum 22 68

precision 0.0667 0.0667

#### GENE1686X

mean 0.2938 -0.0144

std. dev. 1.0702 0.8954

weight sum 21 56

precision 0.0671 0.0671

#### GENE1687X

mean 0.1776 -0.1651

std. dev. 0.7506 0.7747

weight sum 21 59

precision 0.0601 0.0601

#### GENE1688X

mean 0.3251 0.0094

std. dev. 0.8179 0.683

weight sum 22 69

precision 0.0464 0.0464

#### GENE1689X

mean 0.4658 0.0704

std. dev. 0.9819 0.852

weight sum 22 58

precision 0.0649 0.0649

#### GENE1691X

mean 0.4037 -0.0435

std. dev. 0.7247 0.5395

weight sum 22 63

precision 0.0415 0.0415

#### GENE1692X

mean 0.8118 -0.2752

std. dev. 1.093 1.1183

weight sum 23 70

precision 0.0741 0.0741

#### GENE1693X

mean 1.0634 -0.2585

std. dev. 1.0717 1.2696

weight sum 22 70

precision 0.0815 0.0815

#### GENE1694X

mean 0.6339 -0.3379

std. dev. 1.0523 1.1513

weight sum 23 71

precision 0.0771 0.0771

#### GENE1695X

mean 0.6241 -0.3844

std. dev. 1.1121 1.2457

weight sum 23 72

precision 0.0793 0.0793

#### GENE1696X

mean 0.6723 -0.4207

std. dev. 1.1067 1.3567

weight sum 23 72

precision 0.091 0.091

#### GENE1697X

mean 0.7159 -0.2309

std. dev. 1.1697 1.2027

weight sum 23 70

precision 0.0766 0.0766

#### GENE1698X

mean 0.6991 -0.2712

std. dev. 1.1442 1.1997

weight sum 23 70

precision 0.0908 0.0908

#### GENE1699X

mean 0.4228 -0.0738

std. dev. 0.4988 0.5393

weight sum 23 69

precision 0.0454 0.0454

#### GENE1702X

mean 1.325 -1.4153

std. dev. 1.2603 2.1567

weight sum 22 55



precision 0.1104 0.1104

#### GENE1701X

mean 0.3044 -0.0809

std. dev. 0.6428 0.5743

weight sum 23 69

precision 0.043 0.043

#### GENE1735X

mean 0.2849 -0.1868

std. dev. 0.4679 0.5107

weight sum 23 62

precision 0.0362 0.0362

#### GENE1736X

mean 0.3064 -0.0339

std. dev. 0.6953 0.6064

weight sum 23 57

precision 0.0461 0.0461

#### GENE1738X

mean 0.6477 0.0821

std. dev. 0.9984 0.9904

weight sum 21 68

precision 0.0642 0.0642

#### GENE1739X

mean 0.43 0.07

std. dev. 0.9764 1.0149

weight sum 22 65

precision 0.0599 0.0599

#### GENE1575X

mean 0.319 -0.0843

std. dev. 0.5679 0.6726

weight sum 23 72

precision 0.0437 0.0437

#### GENE1744X

mean 0.65 -0.3034

std. dev. 1.2223 1.4849

weight sum 23 63

precision 0.0946 0.0946

#### GENE1734X

mean 0.3575 -0.2417

std. dev. 0.6595 0.7634

weight sum 23 67

precision 0.0501 0.0501

#### GENE1746X

mean 0.1998 0.0405

std. dev. 0.444 0.4676

weight sum 23 71

precision 0.0331 0.0331

#### GENE1747X

mean 0.2838 0.0197

std. dev. 0.4625 0.5987

weight sum 23 70

precision 0.0393 0.0393

#### GENE1748X

mean 0.229 0.0429

std. dev. 0.4736 0.5277

weight sum 23 70

precision 0.0338 0.0338

#### GENE1749X

mean 0.2005 -0.0696

std. dev. 0.423 0.5328

weight sum 22 68

precision 0.0356 0.0356

#### GENE1750X

mean 0.1767 -0.0257

std. dev. 0.4355 0.5366

weight sum 22 70

precision 0.036 0.036

#### GENE1751X

mean 0.1972 -0.0857

std. dev. 0.3443 0.5086

weight sum 23 71

precision 0.0336 0.0336

#### GENE1743X

mean 0.3 -0.0913

std. dev. 0.833 0.9812

weight sum 21 59

precision 0.0759 0.0759

#### GENE1737X

mean 0.5346 -0.0028

std. dev. 0.7676 0.6209

weight sum 19 65

precision 0.0458 0.0458

#### GENE1729X

mean 0.497 -0.1654

std. dev. 0.7646 0.757

weight sum 22 60

precision 0.0675 0.0675

#### GENE1728X

mean 0.1683 -0.1193

std. dev. 0.9304 0.9841

weight sum 23 72

precision 0.0605 0.0605

#### GENE1727X

mean 0.3377 -0.5374

std. dev. 1.0674 1.3691

weight sum 22 69

precision 0.0714 0.0714

#### GENE1726X

mean 0.2529 -0.579

std. dev. 1.0452 1.3706

weight sum 23 69

precision 0.0765 0.0765

#### GENE1725X

mean 0.2197 -0.5948

std. dev. 1.1154 1.4807

weight sum 23 65

precision 0.0842 0.0842

#### GENE1724X

mean -0.0951 -0.0327

std. dev. 1.4132 1.3684

weight sum 22 64

precision 0.0805 0.0805

#### GENE1723X

mean -0.0431 -0.1922

std. dev. 1.2966 1.4102

weight sum 23 71

precision 0.0762 0.0762

#### GENE1722X

mean 0.4833 -0.4735

std. dev. 1.2542 1.3528

weight sum 23 72

precision 0.0746 0.0746

#### GENE1721X

mean 0.1282 -0.4998

std. dev. 1.4677 1.4578

weight sum 23 67

precision 0.0867 0.0867

#### GENE1572X

mean 0.4558 -0.064

std. dev. 0.6222 0.8312

weight sum 23 72

precision 0.0452 0.0452

#### GENE1717X

mean 0.4287 -0.3099

std. dev. 0.6447 0.908

weight sum 23 66

precision 0.0429 0.0429

#### GENE1718X

mean 0.4594 -0.1897

std. dev. 0.5948 0.8432

weight sum 23 69

precision 0.0442 0.0442

#### GENE1719X

mean 0.094 -0.0258

std. dev. 1.4199 1.8762

weight sum 23 71

precision 0.0831 0.0831

#### GENE1720X

mean 0.0277 0.0312

std. dev. 1.521 1.9819

weight sum 23 67

precision 0.0909 0.0909

#### GENE3304X

mean -0.0228 -0.1222

std. dev. 0.649 1.085

weight sum 23 61

precision 0.0582 0.0582

#### GENE3607X

mean 0.2877 -0.0417

std. dev. 0.7161 0.8392

weight sum 22 68



precision 0.0506 0.0506

#### GENE1569X

mean 0.391 -0.1908

std. dev. 0.6551 0.8518

weight sum 23 71

precision 0.0577 0.0577

#### GENE1570X

mean 0.5013 -0.0684

std. dev. 0.634 0.8062

weight sum 22 70

precision 0.052 0.052

#### GENE1571X

mean 0.4781 -0.0851

std. dev. 0.6094 0.7676

weight sum 23 72

precision 0.0468 0.0468

#### GENE3613X

mean 0.1907 0.0316

std. dev. 0.4686 0.7492

weight sum 22 64

precision 0.0506 0.0506

#### GENE3614X

mean 0.1817 0.0419

std. dev. 0.5923 0.8586

weight sum 23 71

precision 0.048 0.048

#### GENE3615X

mean 0.1715 0.1161

std. dev. 0.641 0.7493

weight sum 21 64

precision 0.0456 0.0456

#### GENE3616X

mean 0.0353 0.0071

std. dev. 0.4519 0.5917

weight sum 23 71

precision 0.0386 0.0386

#### GENE1573X

mean 0.4288 -0.1027

std. dev. 0.5437 0.6009

weight sum 23 71

precision 0.0476 0.0476

#### GENE1574X

mean 0.5776 -0.1053

std. dev. 0.5562 0.7154

weight sum 23 72

precision 0.0446 0.0446

#### GENE1538X

mean 0.7167 -0.0544

std. dev. 1.0002 0.9036

weight sum 22 68

precision 0.0686 0.0686

#### GENE1539X

mean 0.7862 -0.2648

std. dev. 1.0062 1.0857

weight sum 23 62

precision 0.0641 0.0641

#### GENE1733X

mean 0.8338 -0.1391

std. dev. 0.8717 1.0372

weight sum 23 72

precision 0.071 0.071

#### GENE1567X

mean 2.42 -0.148

std. dev. 2.3798 1.3678

weight sum 23 71

precision 0.0947 0.0947

#### GENE1753X

mean 0.4729 -0.2334

std. dev. 0.6123 0.8226

weight sum 23 70

precision 0.0501 0.0501

#### GENE493X

mean 0.6312 -0.159

std. dev. 0.3804 0.5373

weight sum 23 70

precision 0.036 0.036

#### GENE1566X

mean 0.9234 -0.2917

std. dev. 0.732 1.086

weight sum 22 71

precision 0.0567 0.0567

#### GENE1553X

mean 0.4698 -0.3726

std. dev. 0.5887 1.0758

weight sum 23 71

precision 0.0693 0.0693

#### GENE1562X

mean 0.5818 -0.2639

std. dev. 0.661 0.6777

weight sum 20 64

precision 0.0515 0.0515

#### GENE1556X

mean 1.0059 -0.2067

std. dev. 1.3231 1.0903

weight sum 22 63

precision 0.0979 0.0979

#### GENE1555X

mean 1.1582 0.1103

std. dev. 1.7008 0.987

weight sum 20 60

precision 0.0894 0.0894

#### GENE1554X

mean 0.3782 -0.1159

std. dev. 0.5286 0.4271

weight sum 23 70

precision 0.0489 0.0489

#### GENE1550X

mean 0.2791 -0.1359

std. dev. 0.6913 0.8858

weight sum 22 71

precision 0.0585 0.0585

#### GENE1549X

mean 0.3364 -0.1231

std. dev. 0.9402 1.1197

weight sum 22 64

precision 0.0679 0.0679

#### GENE1548X

mean 0.3459 -0.1866

std. dev. 0.7935 0.994

weight sum 23 72

precision 0.0652 0.0652

#### GENE1547X

mean 0.3448 -0.209

std. dev. 0.8503 1.1357

weight sum 23 72

precision 0.0901 0.0901

#### GENE1546X

mean 0.4068 -0.1186

std. dev. 0.8747 1.0448

weight sum 23 72

precision 0.0742 0.0742

#### GENE1545X

mean 0.6954 -0.3396

std. dev. 0.7414 1.2892

weight sum 23 68

precision 0.0747 0.0747

#### GENE1544X

mean 0.4268 -0.1227

std. dev. 0.5585 0.5473

weight sum 23 69

precision 0.0421 0.0421

#### GENE1543X

mean 0.625 -0.0393

std. dev. 0.5132 0.6689

weight sum 23 69

precision 0.0503 0.0503

#### GENE1542X

mean 0.4457 -0.1166

std. dev. 0.4605 0.5146

weight sum 23 67

precision 0.0381 0.0381

#### GENE1497X

mean 0.4908 0.0236

std. dev. 0.6444 0.8268

weight sum 23 62

precision 0.0585 0.0585

#### GENE1558X

mean 0.619 0.0725

std. dev. 0.9718 0.8378

weight sum 21 58



precision 0.0546 0.0546

#### GENE1557X

mean 0.5584 0.0491

std. dev. 0.901 0.6591

weight sum 22 62

precision 0.0491 0.0491

#### GENE1758X

mean 0.2601 0.1186

std. dev. 0.7701 0.8006

weight sum 21 57

precision 0.0683 0.0683

#### GENE1759X

mean 0.1345 -0.0422

std. dev. 0.4092 0.478

weight sum 23 68

precision 0.0377 0.0377

#### GENE1760X

mean 0.5509 0.0333

std. dev. 0.8585 0.8589

weight sum 22 66

precision 0.0511 0.0511

#### GENE1761X

mean 0.6677 -0.0312

std. dev. 0.9623 0.9939

weight sum 22 63

precision 0.0595 0.0595

#### GENE1762X

mean 0.2748 -0.0516

std. dev. 0.5339 0.6061

weight sum 22 64

precision 0.0508 0.0508

#### GENE1519X

mean 0.3694 -0.0245

std. dev. 0.3918 0.5734

weight sum 22 66

precision 0.0462 0.0462

#### GENE1518X

mean 0.2823 -0.1307

std. dev. 0.3744 0.3838

weight sum 23 71

precision 0.0328 0.0328

#### GENE1517X

mean 0.2888 -0.1451

std. dev. 0.5954 0.8029

weight sum 19 61

precision 0.0624 0.0624

#### GENE1516X

mean 0.6207 -0.0278

std. dev. 0.5778 0.7676

weight sum 22 68

precision 0.0555 0.0555

#### GENE1515X

mean 0.2403 -0.016

std. dev. 0.3074 0.4529

weight sum 22 71

precision 0.0355 0.0355

#### GENE1514X

mean 0.1479 -0.1311

std. dev. 0.2129 0.3966

weight sum 23 70

precision 0.0312 0.0312

#### GENE1512X

mean 0.2454 -0.1207

std. dev. 0.575 0.4117

weight sum 21 65

precision 0.0385 0.0385

#### GENE1513X

mean 0.2881 -0.1362

std. dev. 0.5711 0.4371

weight sum 20 63

precision 0.0414 0.0414

#### GENE1525X

mean 0.0804 -0.1182

std. dev. 0.3688 0.5048

weight sum 22 62

precision 0.0421 0.0421

#### GENE1524X

mean 0.0303 -0.0513

std. dev. 0.2917 0.4615

weight sum 23 72

precision 0.0349 0.0349

#### GENE1523X

mean 0.0351 -0.2569

std. dev. 0.5426 0.9596

weight sum 22 64

precision 0.0703 0.0703

#### GENE1522X

mean 0.2427 -0.0008

std. dev. 0.5174 0.8812

weight sum 21 66

precision 0.052 0.052

#### GENE1521X

mean 0.1712 0.0029

std. dev. 0.4222 0.6903

weight sum 23 67

precision 0.048 0.048

#### GENE1520X

mean 0.0247 -0.0656

std. dev. 0.7975 0.9886

weight sum 22 57

precision 0.0603 0.0603

#### GENE1765X

mean 0.2436 -0.0388

std. dev. 0.4042 0.3824

weight sum 23 70

precision 0.0352 0.0352

#### GENE1766X

mean 0.1028 0.0527

std. dev. 0.5494 0.5679

weight sum 23 70

precision 0.0473 0.0473

#### GENE1767X

mean 0.2637 0.0567

std. dev. 0.621 0.7999

weight sum 23 64

precision 0.0595 0.0595

#### GENE1768X

mean 0.3003 -0.0803

std. dev. 0.3728 0.4194

weight sum 23 67

precision 0.0347 0.0347

#### GENE1769X

mean 0.5764 -0.0656

std. dev. 0.6209 0.5322

weight sum 23 62

precision 0.0589 0.0589

#### GENE1770X

mean 0.2308 0.0103

std. dev. 0.7649 0.5685

weight sum 21 57

precision 0.0655 0.0655

#### GENE1771X

mean 0.2603 -0.0898

std. dev. 0.5085 0.5632

weight sum 20 58

precision 0.0521 0.0521

#### GENE1772X

mean 0.182 -0.0953

std. dev. 0.3966 0.5048

weight sum 23 63

precision 0.0465 0.0465

#### GENE1773X

mean 0.1892 -0.0272

std. dev. 0.4518 0.5505

weight sum 23 66

precision 0.0691 0.0691

#### GENE1774X

mean 0.2741 0.0398

std. dev. 0.6477 0.6045

weight sum 21 62

precision 0.0747 0.0747

#### GENE1505X

mean 0.5864 0.061

std. dev. 0.6449 0.926

weight sum 23 68

precision 0.0519 0.0519

#### GENE1504X

mean 0.3711 -0.0441

std. dev. 0.4584 0.6767

weight sum 23 72



precision 0.0429 0.0429

#### GENE1503X

mean 0.2188 0.0601

std. dev. 0.3818 0.8127

weight sum 23 72

precision 0.047 0.047

#### GENE1502X

mean 0.2493 -0.0432

std. dev. 0.5429 0.7765

weight sum 23 72

precision 0.041 0.041

#### GENE953X

mean 0.2746 -0.0747

std. dev. 0.3482 0.4075

weight sum 21 68

precision 0.0406 0.0406

#### GENE954X

mean 0.2217 -0.0574

std. dev. 0.3323 0.3464

weight sum 20 61

precision 0.0302 0.0302

#### GENE960X

mean 0.0998 -0.001

std. dev. 0.3372 0.3086

weight sum 23 72

precision 0.0232 0.0232

#### GENE961X

mean 0.1605 -0.0039

std. dev. 0.3399 0.4572

weight sum 23 72

precision 0.0278 0.0278

#### GENE962X

mean 0.2777 -0.0871

std. dev. 0.2556 0.3999

weight sum 23 72

precision 0.0297 0.0297

#### GENE963X

mean 0.3428 -0.1619

std. dev. 0.5959 0.4975

weight sum 23 62

precision 0.0458 0.0458

#### GENE964X

mean 0.1922 0.0386

std. dev. 0.4324 0.4285

weight sum 21 68

precision 0.032 0.032

#### GENE237X

mean 0.2791 -0.0192

std. dev. 0.3669 0.449

weight sum 19 58

precision 0.0371 0.0371

#### GENE1421X

mean 0.3261 -0.0288

std. dev. 0.4361 0.4409

weight sum 22 64

precision 0.0312 0.0312

#### GENE1783X

mean 0.0954 -0.0249

std. dev. 0.3304 0.3904

weight sum 23 71

precision 0.0268 0.0268

#### GENE913X

mean 0.0866 0.002

std. dev. 0.3555 0.3208

weight sum 23 71

precision 0.0234 0.0234

#### GENE914X

mean 0.1811 -0.0431

std. dev. 0.3019 0.3829

weight sum 23 71

precision 0.0257 0.0257

#### GENE912X

mean 0.1102 -0.0618

std. dev. 0.2951 0.4324

weight sum 23 71

precision 0.0272 0.0272

#### GENE1782X

mean 0.2462 -0.0531

std. dev. 0.8385 0.9231

weight sum 23 70

precision 0.0609 0.0609

#### GENE1781X

mean 0.2652 -0.0354

std. dev. 0.8442 1.0566

weight sum 23 68

precision 0.0492 0.0492

#### GENE1780X

mean 0.2662 -0.0573

std. dev. 0.5415 0.6253

weight sum 20 62

precision 0.0507 0.0507

#### GENE1787X

mean 0.2317 -0.0373

std. dev. 0.4572 0.5003

weight sum 23 72

precision 0.0389 0.0389

#### GENE1498X

mean 0.3432 -0.1839

std. dev. 0.4055 0.6152

weight sum 23 72

precision 0.0314 0.0314

#### GENE3577X

mean 0.2761 -0.0711

std. dev. 0.5222 0.643

weight sum 23 72

precision 0.0512 0.0512

#### GENE3082X

mean 0.2122 -0.0444

std. dev. 0.5704 0.6376

weight sum 23 67

precision 0.0414 0.0414

#### GENE1789X

mean 0.372 0.0668

std. dev. 0.7627 0.8042

weight sum 23 68

precision 0.0528 0.0528

#### GENE1346X

mean 0.3102 -0.0208

std. dev. 0.5584 0.6318

weight sum 23 71

precision 0.0476 0.0476

#### GENE1347X

mean 0.1539 -0.0827

std. dev. 0.4348 0.4237

weight sum 20 62

precision 0.038 0.038

#### GENE3933X

mean 0.29 -0.0678

std. dev. 0.3142 0.3117

weight sum 23 70

precision 0.0288 0.0288

#### GENE3417X

mean 0.2465 -0.0592

std. dev. 0.3639 0.3447

weight sum 23 71

precision 0.0386 0.0386

#### GENE3416X

mean 0.1579 -0.0752

std. dev. 0.3502 0.4316

weight sum 23 72

precision 0.0349 0.0349

#### GENE919X

mean 0.1983 -0.0576

std. dev. 0.2442 0.4348

weight sum 23 71

precision 0.0314 0.0314

#### GENE920X

mean 0.1389 -0.0088

std. dev. 0.4105 0.4408

weight sum 23 70

precision 0.0438 0.0438

#### GENE3481X

mean 0.2407 -0.0662

std. dev. 0.3112 0.5661

weight sum 23 71

precision 0.0419 0.0419

#### GENE3092X

mean 0.1485 -0.0084

std. dev. 0.2046 0.484

weight sum 22 68



precision 0.038 0.038

#### GENE3482X

mean 0.2293 0.0027

std. dev. 0.3637 0.4036

weight sum 23 71

precision 0.0269 0.0269

#### GENE3412X

mean 0.2386 -0.0522

std. dev. 0.3664 0.435

weight sum 23 72

precision 0.0384 0.0384

#### GENE3411X

mean 0.1799 -0.0535

std. dev. 0.3307 0.3887

weight sum 21 68

precision 0.0347 0.0347

#### GENE30X

mean 0.3856 0.005

std. dev. 0.3251 0.5086

weight sum 21 71

precision 0.0352 0.0352

#### GENE3829X

mean 0.2083 -0.0404

std. dev. 0.5695 0.4253

weight sum 23 69

precision 0.0371 0.0371

#### GENE1806X

mean 0.249 -0.0659

std. dev. 0.3585 0.346

weight sum 23 69

precision 0.0358 0.0358

#### GENE1807X

mean 0.3645 -0.099

std. dev. 0.4558 0.5365

weight sum 22 68

precision 0.0349 0.0349

#### GENE3979X

mean 0.3997 -0.0477

std. dev. 0.4252 0.5141

weight sum 23 70

precision 0.0484 0.0484

#### GENE1340X

mean 0.5067 -0.0099

std. dev. 0.7208 0.6471

weight sum 22 63

precision 0.0444 0.0444

#### GENE1466X

mean -0.207 0.0667

std. dev. 0.4444 0.6899

weight sum 20 65

precision 0.0394 0.0394

#### GENE1496X

mean 0.1051 0.0716

std. dev. 0.5126 0.5206

weight sum 21 67

precision 0.0552 0.0552

#### GENE1495X

mean 0.2098 -0.0848

std. dev. 0.5526 0.6435

weight sum 21 57

precision 0.0531 0.0531

#### GENE1494X

mean 0.109 0.0141

std. dev. 0.3698 0.3619

weight sum 23 68

precision 0.0234 0.0234

#### GENE1493X

mean -0.0319 -0.1115

std. dev. 0.8367 1.1346

weight sum 21 59

precision 0.1115 0.1115

#### GENE1490X

mean 0.0833 -0.1003

std. dev. 0.527 0.3697

weight sum 20 62

precision 0.037 0.037

#### GENE1492X

mean 0.22 0.0099

std. dev. 0.5072 0.8477

weight sum 22 58

precision 0.0576 0.0576

#### GENE1491X

mean 0.3895 -0.0168

std. dev. 0.5399 0.4109

weight sum 21 66

precision 0.0481 0.0481

#### GENE1811X

mean 0.3603 -0.0215

std. dev. 0.7541 0.6638

weight sum 21 65

precision 0.0482 0.0482

#### GENE1810X

mean 0.3037 -0.1834

std. dev. 0.8183 0.8157

weight sum 19 57

precision 0.0679 0.0679

#### GENE1489X

mean 0.7011 -0.1075

std. dev. 0.9775 0.9205

weight sum 23 69

precision 0.0645 0.0645

#### GENE3893X

mean 0.2599 0.0448

std. dev. 0.7374 0.9345

weight sum 23 72

precision 0.052 0.052

#### GENE1808X

mean -0.0141 0.0045

std. dev. 0.6188 0.489

weight sum 20 63

precision 0.0402 0.0402

#### GENE1813X

mean 0.3756 -0.204

std. dev. 0.6092 0.7145

weight sum 23 68

precision 0.0588 0.0588

#### GENE1812X

mean 0.4208 -0.2208

std. dev. 0.6959 0.7339

weight sum 23 67

precision 0.0556 0.0556

#### GENE985X

mean 0.1491 -0.106

std. dev. 0.2495 0.3822

weight sum 22 69

precision 0.0313 0.0313

#### GENE1809X

mean 0.2705 -0.2637

std. dev. 0.6015 0.8887

weight sum 23 71

precision 0.0571 0.0571

#### GENE1277X

mean 0.1906 -0.0383

std. dev. 0.3845 0.3093

weight sum 23 72

precision 0.0307 0.0307

#### GENE1829X

mean 0.0634 0.1256

std. dev. 0.438 0.7317

weight sum 23 72

precision 0.0503 0.0503

#### GENE1828X

mean -0.1225 0.1042

std. dev. 0.4587 0.7526

weight sum 20 64

precision 0.068 0.068

#### GENE1827X

mean -0.1553 0.012

std. dev. 0.549 0.762

weight sum 22 57

precision 0.0526 0.0526

#### GENE1826X

mean -0.3937 0.0029

std. dev. 0.6968 0.7861

weight sum 23 66

precision 0.0484 0.0484

#### GENE1825X

mean -0.3643 0.0806

std. dev. 0.8368 0.9693

weight sum 23 65



precision 0.0551 0.0551

#### GENE1824X

mean -0.5249 -0.0299

std. dev. 1.0505 1.181

weight sum 22 67

precision 0.0668 0.0668

#### GENE1823X

mean 0.104 -0.0166

std. dev. 0.4777 0.713

weight sum 21 59

precision 0.0753 0.0753

#### GENE1822X

mean 0.1012 -0.0584

std. dev. 0.865 0.9977

weight sum 23 69

precision 0.0895 0.0895

#### GENE3929X

mean 0.4513 -0.0864

std. dev. 0.8247 0.637

weight sum 23 71

precision 0.059 0.059

#### GENE3980X

mean 0.2439 -0.0623

std. dev. 0.2528 0.3661

weight sum 23 72

precision 0.0303 0.0303

#### GENE1376X

mean 0.2319 -0.0632

std. dev. 0.455 0.4918

weight sum 22 61

precision 0.0357 0.0357

#### GENE1377X

mean 0.0497 0.1142

std. dev. 0.7151 0.9156

weight sum 23 71

precision 0.0544 0.0544

#### GENE1378X

mean -0.1366 0.1103

std. dev. 0.702 0.8146

weight sum 22 71

precision 0.0537 0.0537

#### GENE3196X

mean -0.0235 -0.0341

std. dev. 0.3411 0.3326

weight sum 18 62

precision 0.0265 0.0265

#### GENE2629X

mean 0.1106 -0.0829

std. dev. 0.6347 0.5452

weight sum 22 68

precision 0.0406 0.0406

#### GENE1476X

mean -0.1001 -0.1162

std. dev. 0.6805 0.7846

weight sum 23 60

precision 0.0622 0.0622

#### GENE1477X

mean 0.0778 -0.0282

std. dev. 0.533 0.4431

weight sum 21 63

precision 0.0348 0.0348

#### GENE1901X

mean -0.0212 -0.1181

std. dev. 0.3028 0.4356

weight sum 21 58

precision 0.037 0.037

#### GENE2583X

mean -0.0163 -0.0359

std. dev. 0.3527 0.4185

weight sum 21 65

precision 0.0311 0.0311

#### GENE1142X

mean 0.1375 -0.1304

std. dev. 0.5218 0.6079

weight sum 23 72

precision 0.051 0.051

#### GENE1143X

mean 0.1818 -0.1014

std. dev. 0.5651 0.5367

weight sum 23 69

precision 0.0427 0.0427

#### GENE1144X

mean 0.1466 -0.0743

std. dev. 0.5007 0.601

weight sum 23 64

precision 0.0553 0.0553

#### GENE1089X

mean 0.0342 -0.0272

std. dev. 0.3239 0.3624

weight sum 23 65

precision 0.0281 0.0281

#### GENE1374X

mean 0.1794 -0.0819

std. dev. 0.5615 0.75

weight sum 19 59

precision 0.062 0.062

#### GENE1375X

mean 0.097 -0.0879

std. dev. 1.0269 1.1629

weight sum 21 68

precision 0.0657 0.0657

#### GENE1113X

mean 0.1002 -0.0143

std. dev. 0.9375 0.8685

weight sum 23 72

precision 0.0606 0.0606

#### GENE3119X

mean 0.199 0.0514

std. dev. 0.3882 0.5696

weight sum 21 57

precision 0.0543 0.0543

#### GENE1909X

mean 0.0769 0.0073

std. dev. 0.4261 0.3143

weight sum 21 61

precision 0.0343 0.0343

#### GENE1894X

mean -0.0175 -0.0323

std. dev. 0.379 0.5566

weight sum 21 62

precision 0.0409 0.0409

#### GENE1854X

mean 0.1758 -0.019

std. dev. 0.5662 0.6724

weight sum 20 57

precision 0.0541 0.0541

#### GENE4022X

mean 0.0696 0.03

std. dev. 0.4033 0.4898

weight sum 22 71

precision 0.0374 0.0374

#### GENE3931X

mean 0.37 -0.0221

std. dev. 0.4148 0.492

weight sum 22 71

precision 0.0463 0.0463

#### GENE2588X

mean 0.2415 -0.0356

std. dev. 0.4586 0.467

weight sum 20 60

precision 0.0508 0.0508

#### GENE3120X

mean 0.2983 -0.0818

std. dev. 0.4346 0.4654

weight sum 21 58

precision 0.0461 0.0461

#### GENE6X

mean 0.0327 -0.0914

std. dev. 0.6541 0.5803

weight sum 23 64

precision 0.0418 0.0418

#### GENE5X

mean -0.037 -0.0113

std. dev. 0.3237 0.428

weight sum 23 70

precision 0.0283 0.0283

#### GENE3X

mean 0.1659 -0.1594

std. dev. 0.897 0.8654

weight sum 23 59



precision 0.0681 0.0681

#### GENE2X

mean 0.2923 -0.1502

std. dev. 0.6602 0.8754

weight sum 23 64

precision 0.0672 0.0672

#### GENE48X

mean 0.1048 -0.0255

std. dev. 0.3245 0.4623

weight sum 20 66

precision 0.0374 0.0374

#### GENE47X

mean 0.1475 -0.0581

std. dev. 0.7936 0.9991

weight sum 22 59

precision 0.0901 0.0901

Time taken to build model: 0.04 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances	79	83.1579 %
Incorrectly Classified Instances	16	16.8421 %
Kappa statistic	0.5785	
Mean absolute error	0.1715	
Root mean squared error	0.4115	
Relative absolute error	46.322 %	
Root relative squared error	95.9589 %	
Total Number of Instances	95	

=== Detailed Accuracy By Class ===

	TP Rate	FP Rate	Precision	Recall	F-Measure	MCC	ROC Area	PRC Area	Class
	0.783	0.153	0.621	0.783	0.692	0.586	0.851	0.569	ACL
	0.847	0.217	0.924	0.847	0.884	0.586	0.842	0.916	nonACL
Weighted Avg.	0.832	0.202	0.851	0.832	0.838	0.586	0.844	0.832	

=== Confusion Matrix ===

a b <-- classified as

18 5 | a = ACL

11 61 | b = nonACL

## K-nearest neighbors (KNN) without feature selection

=== Run information ===

Scheme: weka.classifiers.lazy.IBk -K 5 -W 0 -A "weka.core.neighboursearch.LinearNNSearch -A  
\"weka.core.EuclideanDistance -R first-last\""

Relation: figure1

Instances: 95

Attributes: 4027

[list of attributes omitted]

Test mode: 10-fold cross-validation

=== Classifier model (full training set) ===

IB1 instance-based classifier

using 5 nearest neighbour(s) for classification

Time taken to build model: 0 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances	79	83.1579 %
--------------------------------	----	-----------

Incorrectly Classified Instances	16	16.8421 %
Kappa statistic	0.5271	
Mean absolute error	0.2685	
Root mean squared error	0.3573	
Relative absolute error	72.4907 %	
Root relative squared error	83.3082 %	
Total Number of Instances	95	

=== Detailed Accuracy By Class ===

	TP Rate	FP Rate	Precision	Recall	F-Measure	MCC	ROC Area	PRC Area	Class
	0.609	0.097	0.667	0.609	0.636	0.528	0.863	0.583	ACL
	0.903	0.391	0.878	0.903	0.890	0.528	0.863	0.947	nonACL
Weighted Avg.	0.832	0.320	0.827	0.832	0.829	0.528	0.863	0.858	

=== Confusion Matrix ===

a b <-- classified as

14 9 | a = ACL

7 65 | b = nonACL

**NaiveBayes (NB) with top 20 feature selection Information Gain (IG)**

=== Run information ===

Scheme: weka.classifiers.bayes.NaiveBayes

Relation: figure1-weka.filters.supervised.attribute.AttributeSelection-

Eweka.attributeSelection.InfoGainAttributeEval-Sweka.attributeSelection.Ranker -T -

1.7976931348623157E308 -N 20

Instances: 95

Attributes: 21

GENE1610X

GENE3943X

GENE493X

GENE390X

GENE1537X

GENE1609X

GENE384X

GENE2760X

GENE2380X

GENE3945X

GENE938X

GENE597X

GENE385X

GENE374X

GENE3941X

GENE655X

GENE639X

GENE3641X

GENE3642X

GENE3573X

class

Test mode: 10-fold cross-validation

=== Classifier model (full training set) ===

Naive Bayes Classifier

Class

Attribute      ACL nonACL

(0.25) (0.75)

=====

GENE1610X

mean          2.294 -0.4279

std. dev.    1.4127 1.6804

weight sum    23    72

precision    0.0942 0.0942

GENE3943X

mean          0.6676 -0.2422

std. dev.    0.699 0.7907

weight sum    23    72

precision    0.0535 0.0535

#### GENE493X

mean	0.6312	-0.159
std. dev.	0.3804	0.5373
weight sum	23	70
precision	0.036	0.036

#### GENE390X

mean	0.4314	-0.16
std. dev.	0.5499	0.4915
weight sum	23	71
precision	0.0496	0.0496

#### GENE1537X

mean	0.5493	-0.0976
std. dev.	0.3673	0.4314
weight sum	23	71
precision	0.0383	0.0383

#### GENE1609X

mean	2.496	-0.1778
std. dev.	1.541	1.3951
weight sum	23	63
precision	0.0926	0.0926

#### GENE384X

mean 1.1699 -0.4346

std. dev. 0.9093 1.0294

weight sum 23 72

precision 0.0569 0.0569

#### GENE2760X

mean -0.6062 0.3429

std. dev. 0.3963 0.9651

weight sum 23 71

precision 0.0738 0.0738

#### GENE2380X

mean -0.4474 0.4014

std. dev. 1.3051 1.3809

weight sum 23 71

precision 0.0817 0.0817

#### GENE3945X

mean 0.9442 -0.2191

std. dev. 0.8676 0.8553

weight sum 23 72

precision 0.0566 0.0566



#### GENE938X

mean      0.7637 -0.2427  
std. dev.   0.8348 0.7031  
weight sum      23    69  
precision    0.0587 0.0587

#### GENE597X

mean      0.279 -0.0385  
std. dev.   0.2707 0.5806  
weight sum      23    71  
precision    0.038 0.038

#### GENE385X

mean      0.6381 -0.1099  
std. dev.   0.467 0.4346  
weight sum      23    71  
precision    0.0384 0.0384

#### GENE374X

mean      0.5443 -0.0625  
std. dev.   0.369 0.5279  
weight sum      23    67  
precision    0.0436 0.0436

#### GENE3941X

mean      0.7176 -0.2099  
std. dev.   0.8775 0.6417  
weight sum    23    72  
precision    0.0534 0.0534

#### GENE655X

mean      0.5163 -0.3642  
std. dev.   0.5811 0.9504  
weight sum    23    71  
precision    0.0514 0.0514

#### GENE639X

mean      0.4263 -0.3786  
std. dev.   0.3235 0.8674  
weight sum    23    71  
precision    0.0478 0.0478

#### GENE3641X

mean      0.5602 -0.2422  
std. dev.   0.6523 0.7313  
weight sum    23    72  
precision    0.0591 0.0591

GENE3642X

mean        0.529 -0.2335

std. dev.   0.7823 0.9005

weight sum    23    72

precision    0.0737 0.0737

GENE3573X

mean        0.5746 -0.2692

std. dev.   0.5147 0.68

weight sum    23    70

precision    0.0612 0.0612

Time taken to build model: 0 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances	88	92.6316 %
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Incorrectly Classified Instances	7	7.3684 %
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Kappa statistic	0.813
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Mean absolute error	0.0811
---------------------	--------

Root mean squared error	0.2652
-------------------------	--------

Relative absolute error	21.895 %
Root relative squared error	61.834 %
Total Number of Instances	95

=== Detailed Accuracy By Class ===

	TP Rate	FP Rate	Precision	Recall	F-Measure	MCC	ROC Area	PRC Area	Class
	0.957	0.083	0.786	0.957	0.863	0.820	0.968	0.933	ACL
	0.917	0.043	0.985	0.917	0.950	0.820	0.968	0.988	nonACL
Weighted Avg.	0.926	0.053	0.937	0.926	0.929	0.820	0.968	0.975	

=== Confusion Matrix ===

a b <-- classified as

22 1 | a = ACL

6 66 | b = nonACL

**K-nearest neighbors (KNN) with top 20 feature selection Information Gain (IG)**

=== Run information ===

Scheme: weka.classifiers.lazy.IBk -K 5 -W 0 -A "weka.core.neighboursearch.LinearNNSearch -A  
\"weka.core.EuclideanDistance -R first-last\""

Relation: figure1-weka.filters.supervised.attribute.AttributeSelection-

Eweka.attributeSelection.InfoGainAttributeEval-Sweka.attributeSelection.Ranker -T -

1.7976931348623157E308 -N 20

Instances: 95

Attributes: 21

GENE1610X

GENE3943X

GENE493X

GENE390X

GENE1537X

GENE1609X

GENE384X

GENE2760X

GENE2380X

GENE3945X

GENE938X

GENE597X

GENE385X

GENE374X

GENE3941X

GENE655X

GENE639X

GENE3641X

GENE3642X

GENE3573X

class

Test mode: 10-fold cross-validation

=== Classifier model (full training set) ===

IB1 instance-based classifier

using 5 nearest neighbour(s) for classification

Time taken to build model: 0 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances	86	90.5263 %
Incorrectly Classified Instances	9	9.4737 %
Kappa statistic	0.7528	
Mean absolute error	0.1427	
Root mean squared error	0.2636	
Relative absolute error	38.5404 %	
Root relative squared error	61.4684 %	
Total Number of Instances	95	

=== Detailed Accuracy By Class ===

TP Rate	FP Rate	Precision	Recall	F-Measure	MCC	ROC Area	PRC Area	Class
---------	---------	-----------	--------	-----------	-----	----------	----------	-------

	0.870	0.083	0.769	0.870	0.816	0.755	0.930	0.872	ACL
	0.917	0.130	0.957	0.917	0.936	0.755	0.930	0.964	nonACL
Weighted Avg.	0.905	0.119	0.911	0.905	0.907	0.755	0.930	0.942	

=== Confusion Matrix ===

a b <-- classified as

20 3 | a = ACL

6 66 | b = nonACL

**NaiveBayes (NB) with top 20 feature selection Chi Squared (X2)**

=== Run information ===

Scheme: weka.classifiers.bayes.NaiveBayes

Relation: figure1-weka.filters.supervised.attribute.AttributeSelection-

Eweka.attributeSelection.ChiSquaredAttributeEval-Sweka.attributeSelection.Ranker -T -

1.7976931348623157E308 -N 20

Instances: 95

Attributes: 21

GENE1610X

GENE1609X

GENE1537X

GENE385X

GENE493X

GENE384X

GENE3941X

GENE3945X

GENE1567X

GENE3943X

GENE3258X

GENE3946X

GENE390X

GENE938X

GENE655X

GENE2760X

GENE1676X

GENE3641X

GENE3939X

GENE2462X

class

Test mode: 10-fold cross-validation

=== Classifier model (full training set) ===

Naive Bayes Classifier

Class

Attribute      ACL nonACL

(0.25) (0.75)



=====

GENE1610X

mean	2.294	-0.4279
std. dev.	1.4127	1.6804
weight sum	23	72
precision	0.0942	0.0942

GENE1609X

mean	2.496	-0.1778
std. dev.	1.541	1.3951
weight sum	23	63
precision	0.0926	0.0926

GENE1537X

mean	0.5493	-0.0976
std. dev.	0.3673	0.4314
weight sum	23	71
precision	0.0383	0.0383

GENE385X

mean	0.6381	-0.1099
std. dev.	0.467	0.4346
weight sum	23	71
precision	0.0384	0.0384

#### GENE493X

mean	0.6312	-0.159
std. dev.	0.3804	0.5373
weight sum	23	70
precision	0.036	0.036

#### GENE384X

mean	1.1699	-0.4346
std. dev.	0.9093	1.0294
weight sum	23	72
precision	0.0569	0.0569

#### GENE3941X

mean	0.7176	-0.2099
std. dev.	0.8775	0.6417
weight sum	23	72
precision	0.0534	0.0534

#### GENE3945X

mean	0.9442	-0.2191
std. dev.	0.8676	0.8553
weight sum	23	72
precision	0.0566	0.0566

#### GENE1567X

mean        2.42 -0.148  
std. dev.   2.3798 1.3678  
weight sum    23    71  
precision   0.0947 0.0947

#### GENE3943X

mean        0.6676 -0.2422  
std. dev.   0.699 0.7907  
weight sum    23    72  
precision   0.0535 0.0535

#### GENE3258X

mean        -0.9781 0.2128  
std. dev.   1.0636 0.9698  
weight sum    23    72  
precision   0.0697 0.0697

#### GENE3946X

mean        0.804 -0.3539  
std. dev.   0.8471 0.8671  
weight sum    23    71  
precision   0.0587 0.0587

#### GENE390X

mean	0.4314	-0.16
std. dev.	0.5499	0.4915
weight sum	23	71
precision	0.0496	0.0496

#### GENE938X

mean	0.7638	-0.2427
std. dev.	0.8348	0.7031
weight sum	23	69
precision	0.0587	0.0587

#### GENE655X

mean	0.5163	-0.3642
std. dev.	0.5811	0.9504
weight sum	23	71
precision	0.0514	0.0514

#### GENE2760X

mean	-0.6062	0.3429
std. dev.	0.3963	0.9651
weight sum	23	71
precision	0.0738	0.0738

#### GENE1676X

mean	1.0417	-0.1411
std. dev.	0.7928	0.7893
weight sum	23	72
precision	0.0686	0.0686

#### GENE3641X

mean	0.5602	-0.2422
std. dev.	0.6523	0.7313
weight sum	23	72
precision	0.0591	0.0591

#### GENE3939X

mean	0.6053	-0.2434
std. dev.	0.4167	0.7013
weight sum	22	70
precision	0.0459	0.0459

#### GENE2462X

mean	-1.5904	0.0307
std. dev.	1.0122	1.0365
weight sum	17	70
precision	0.0671	0.0671

Time taken to build model: 0 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances	86	90.5263 %
Incorrectly Classified Instances	9	9.4737 %
Kappa statistic	0.7661	
Mean absolute error	0.0843	
Root mean squared error	0.2671	
Relative absolute error	22.7752 %	
Root relative squared error	62.2814 %	
Total Number of Instances	95	

=== Detailed Accuracy By Class ===

TP Rate	FP Rate	Precision	Recall	F-Measure	MCC	ROC Area	PRC Area	Class
0.957	0.111	0.733	0.957	0.830	0.779	0.978	0.961	ACL
0.889	0.043	0.985	0.889	0.934	0.779	0.978	0.992	nonACL
Weighted Avg.	0.905	0.060	0.924	0.905	0.909	0.779	0.978	0.985

=== Confusion Matrix ===

a b <-- classified as

22 1 | a = ACL

8 64 | b = nonACL

**K-nearest neighbors (KNN) with top 20 feature selection Chi Squared (X2)**

=== Run information ===

Scheme: weka.classifiers.lazy.IBk -K 5 -W 0 -A "weka.core.neighboursearch.LinearNNSearch -  
A \"weka.core.EuclideanDistance -R first-last\""

Relation: figure1-weka.filters.supervised.attribute.AttributeSelection-

Eweka.attributeSelection.ChiSquaredAttributeEval-Sweka.attributeSelection.Ranker -T -

1.7976931348623157E308 -N 20

Instances: 95

Attributes: 21

GENE1610X

GENE1609X

GENE1537X

GENE385X

GENE493X

GENE384X

GENE3941X

GENE3945X

GENE1567X

GENE3943X

GENE3258X

GENE3946X

GENE390X

GENE938X

GENE655X

GENE2760X

GENE1676X

GENE3641X

GENE3939X

GENE2462X

class

Test mode: 10-fold cross-validation

=== Classifier model (full training set) ===

IB1 instance-based classifier

using 5 nearest neighbour(s) for classification

Time taken to build model: 0 seconds



=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances	87	91.5789 %
Incorrectly Classified Instances	8	8.4211 %
Kappa statistic	0.7482	
Mean absolute error	0.1155	
Root mean squared error	0.2479	
Relative absolute error	31.1843 %	
Root relative squared error	57.797 %	
Total Number of Instances	95	

=== Detailed Accuracy By Class ===

	TP Rate	FP Rate	Precision	Recall	F-Measure	MCC	ROC Area	PRC Area	Class
	0.696	0.014	0.941	0.696	0.800	0.762	0.950	0.906	ACL
	0.986	0.304	0.910	0.986	0.947	0.762	0.950	0.972	nonACL
Weighted Avg.	0.916	0.234	0.918	0.916	0.911	0.762	0.950	0.956	

=== Confusion Matrix ===

a b <-- classified as

16 7 | a = ACL

1 71 | b = nonACL