

AE16B025  
GENE X1  
Condition 1, Condition 2  
44.5046, 91.3145  
51.5038, 136.993  
46.3664, 84.1773  
50.2722, 101.043  
52.9818, 88.4549  
37.059, 124.862  
46.9246, 139.314  
35.9105, 129.822  
43.5937, 108.134  
47.0258, 87.2672  
GENE X2  
Condition 1, Condition 2  
83.8994, 120.634  
97.1614, 93.3154  
109.187, 80.166  
82.3288, 39.59  
76.5832, 111.08  
103.903, 75.9463  
107.88, 104.681  
107.836, 121.997  
92.2733, 104.782  
99.4004, 75.4537  
GENE X3  
Condition 1, Condition 2  
64.764, 43.3302  
65.0119, 8.43829  
59.3902, 46.4415  
63.3291, 41.8626  
68.8182, 43.6107  
68.0954, 41.9045  
76.0796, 34.5637  
66.9334, 45.1258  
63.9766, 34.0968  
61.0355, 26.3193  
GENE X4  
Condition 1, Condition 2  
88.0761, 120.475  
89.644, 115.204  
44.869, 150.535  
80.9342, 107.752  
95.8722, 131.126  
70.9199, 129.854  
93.7268, 140.091  
87.334, 145.479  
76.3907, 116.182  
78.8725, 134.349  
GENE X5  
Condition 1, Condition 2  
44.5983, 73.6466  
33.3546, 96.5622

40.2513,78.1985  
34.6428,81.597  
32.4959,79.5823  
42.5314,78.6202  
38.6913,81.6341  
38.069,77.0264  
37.4851,103.298  
39.0957,90.1772

AE16B107

GENE X1

Condition 1, Condition 2

36.8869, 105.68

13.0235, 92.0998

28.9928, 92.6869

38.8486, 104.712

32.6575, 75.9031

25.6021, 118.702

29.015, 73.4073

13.1723, 96.2726

27.7713, 87.7365

17.6874, 72.6463

GENE X2

Condition 1, Condition 2

8.04539, 121.719

22.4605, 117.846

6.35468, 105.414

7.95451, 104.633

15.164, 123.986

27.9223, 118.951

6.21092, 90.4013

16.6844, 91.3595

5.17658, 85.6744

7.42615, 87.1192

GENE X3

Condition 1, Condition 2

96.2478, 144.776

82.5372, 160.633

92.3254, 129.142

107.978, 136.972

81.0952, 142.271

59.0406, 142.979

103.792, 120.983

104.646, 111.416

96.3443, 97.1747

89.1474, 141.638

GENE X4

Condition 1, Condition 2

102.456, 63.0131

88.1963, 37.3249

101.582, 43.5959

104.385, 74.8072

94.9047, 26.4325

95.0415, 36.6801

95.0986, 46.9639

84.6865, 45.97

109.389, 68.6945

99.9428, 55.018

GENE X5

Condition 1, Condition 2

77.0236, 129.259

67.2368, 135.804

62.0785,112.24  
76.8904,123.287  
72.2397,116.173  
78.582,134.207  
79.5914,122.762  
60.4468,139.452  
70.5384,136.713  
66.7315,153.639

AE16B108  
GENE X1  
Condition 1, Condition 2  
59.9875, 18.7735  
58.2986, -2.68481  
64.708, 11.2431  
66.9365, 9.02952  
55.2434, 2.1687  
50.2341, 0.758319  
58.2768, 1.7204  
51.7097, 1.75236  
64.9523, 14.6341  
41.5893, 3.43172  
GENE X2  
Condition 1, Condition 2  
100.581, 173.41  
101.927, 176.423  
83.743, 185.343  
81.8466, 175.124  
87.081, 184.775  
70.4635, 181.788  
77.662, 186.872  
112.361, 195.246  
89.122, 200.433  
90.7705, 178.153  
GENE X3  
Condition 1, Condition 2  
18.4227, 74.0302  
25.6418, 135.219  
26.2802, 76.6455  
-6.24374, 84.7633  
21.9328, 85.5259  
5.20319, 119.861  
6.1211, 125.974  
9.16842, 127.034  
17.9577, 102.036  
18.5209, 121.192  
GENE X4  
Condition 1, Condition 2  
39.8073, 122.357  
61.8925, 161.452  
39.6766, 119.365  
49.1152, 126.24  
48.0836, 129.582  
44.1731, 121.152  
36.4751, 132.327  
46.5541, 117.776  
42.7718, 111.741  
35.3751, 145.725  
GENE X5  
Condition 1, Condition 2  
106.491, 176.303  
89.9106, 173.482

79.2598,173.322  
86.7489,178.799  
94.5508,178.511  
89.0257,150.444  
94.7956,166.564  
96.2102,172.177  
93.809,176.643  
103.399,172.481

AE16B111  
GENE X1  
Condition 1, Condition 2  
86.8306, 106.209  
67.1631, 116.023  
89.5446, 165.884  
100.058, 161.878  
71.4105, 163.725  
76.8206, 188.493  
79.7383, 120.261  
75.1449, 172.526  
71.4913, 145.005  
80.8467, 175.879  
GENE X2  
Condition 1, Condition 2  
-2.37096, 86.0339  
10.2194, 117.29  
12.8149, 123.465  
3.3533, 123.367  
11.8351, 123.84  
4.80673, 153.763  
4.45736, 175.505  
10.1525, 154.267  
6.028, 149.947  
6.15892, 117.221  
GENE X3  
Condition 1, Condition 2  
33.4364, 113.187  
23.3841, 101.392  
21.2903, 99.2935  
19.8517, 111.878  
9.41783, 107.286  
15.1868, 88.8008  
19.1888, 97.6067  
0.0599831, 120.007  
11.0985, 91.9642  
13.6431, 111.342  
GENE X4  
Condition 1, Condition 2  
72.562, -0.74811  
88.4575, 19.4075  
58.4236, -1.19647  
84.579, 4.64898  
90.9126, 12.9934  
74.6945, -0.906271  
86.3165, 7.02172  
74.8136, -8.41626  
72.9769, 22.2399  
101.699, 12.5143  
GENE X5  
Condition 1, Condition 2  
3.4302, 202.451  
-18.1055, 145.231

12.9582,151.097  
11.39,170.494  
11.9014,173.802  
9.673,176.093  
-5.71925,144.778  
-12.976,177.862  
13.7762,138.847  
-15.6549,204.738

AE17B001

GENE X1

Condition 1, Condition 2

106.577, 173.629

88.7832, 140.495

104.614, 155.888

102.65, 161.225

124.318, 170.056

108.636, 193.06

91.0129, 172.8

93.1452, 194.732

85.1667, 164.683

110.112, 188.169

GENE X2

Condition 1, Condition 2

33.3051, 53.232

-2.9745, 17.7188

32.1758, 23.4825

43.6589, 57.7982

19.6958, 53.5982

29.503, 27.5985

30.40.3334

25.1203, 7.61832

22.9206, 39.9401

32.0801, 2.10808

GENE X3

Condition 1, Condition 2

26.5062, 101.353

32.9502, 92.7306

52.6582, 93.5243

51.559, 144.745

21.4961, 121.087

34.3847, 65.4375

25.422, 105.828

23.441, 114.843

49.043, 114.93

26.9498, 88.1958

GENE X4

Condition 1, Condition 2

6.27186, 161.057

11.5336, 191.666

32.2209, 172.984

2.81564, 168.074

28.8101, 179.75

28.5831, 175.384

9.99839, 194.286

34.8205, 171.521

35.0539, 177.118

19.8158, 177.491

GENE X5

Condition 1, Condition 2

66.13, 130.528

90.6225, 131.991

88.5454,120.652  
78.1458,139.36  
91.0783,124.658  
79.3433,144.013  
74.3406,147.771  
93.1282,137.583  
85.7776,138.246  
81.3961,112.83

AE17B003

GENE X1

Condition 1, Condition 2

21.5353, 55.1048

22.7473, 49.7691

16.4305, 73.3182

20.092, 46.6138

34.813, 74.2821

27.662, 58.5083

36.7469, 65.0626

39.2075, 73.799

30.9438, 77.4254

40.036, 45.6584

GENE X2

Condition 1, Condition 2

24.8959, 164.682

28.1162, 190.922

40.5342, 159.509

9.90199, 173.114

29.1216, 162.373

1.8669, 175.769

46.6704, 170.323

24.3085, 166.637

41.2608, 169.777

25.8763, 157.925

GENE X3

Condition 1, Condition 2

44.4593, 96.7959

34.0629, 75.2932

36.5438, 150.196

37.6146, 106.959

38.7793, 91.1853

50.6394, 95.9734

36.5634, 138.005

27.0333, 101.582

29.7731, 144.644

15.3836, 66.42

GENE X4

Condition 1, Condition 2

35.4022, 77.9595

42.9759, 75.41

39.0878, 72.9652

20.357, 44.7178

62.2435, 51.0776

43.7329, 68.8229

27.461, 68.7479

24.2818, 64.4672

27.1417, 59.3229

57.3719, 75.8139

GENE X5

Condition 1, Condition 2

28.1868, 147.89

32.2878, 153.564

23.6949,154.468  
20.6049,152.47  
22.5813,150.095  
37.6055,183.242  
33.5161,124.635  
26.9583,138.106  
27.9724,159.492  
37.3073,158.459

AE17B008  
GENE X1  
Condition 1, Condition 2  
86.2851, 106.003  
97.5693, 105.94  
78.0309, 96.7882  
61.4971, 105.426  
52.1473, 82.3545  
87.1791, 101.562  
93.6541, 121.854  
57.2223, 102.851  
81.9607, 95.9709  
64.6373, 95.7149  
GENE X2  
Condition 1, Condition 2  
48.3948, 129.454  
36.1906, 152.001  
43.019, 126.018  
36.9081, 136.715  
35.3089, 137.55  
29.3802, 123.343  
35.8817, 120.686  
34.8861, 136.235  
45.929, 144.271  
23.9581, 129.431  
GENE X3  
Condition 1, Condition 2  
81.0354, 139.221  
67.505, 153.061  
61.0236, 151.811  
64.5606, 172.408  
51.1221, 153.726  
68.4502, 182.407  
54.7751, 146.25  
72.8154, 150.816  
74.796, 123.503  
63.4268, 151.172  
GENE X4  
Condition 1, Condition 2  
61.4411, 95.0113  
72.7538, 97.0048  
51.416, 91.3624  
68.1598, 111.816  
66.3609, 107.578  
37.9303, 110.982  
52.537, 121.545  
63.958, 129.66  
29.1247, 96.7903  
62.0053, 129.461  
GENE X5  
Condition 1, Condition 2  
39.6223, 20.8205  
50.7244, 27.3336

55.0663,24.1587  
51.8552,-0.0350095  
61.4584,21.7213  
59.6674,6.98259  
49.5356,36.6532  
44.5637,34.7492  
47.1546,-6.39619  
50.375,18.6277

AE17B014  
GENE X1  
Condition 1, Condition 2  
54.6547, 109.976  
54.2471, 132.37  
62.9625, 135.112  
76.3466, 110.231  
45.6747, 113.605  
72.6029, 111.376  
77.5989, 143.735  
59.6544, 118.946  
64.5974, 139.69  
61.8217, 151.059  
GENE X2  
Condition 1, Condition 2  
48.8494, 72.154  
13.4079, 58.3089  
17.1469, 55.4576  
21.6205, 53.1882  
16.5456, 45.5287  
11.8913, 46.9895  
36.9497, 68.0023  
20.0871, 66.9918  
34.9811, 52.6657  
0.550324, 38.2181  
GENE X3  
Condition 1, Condition 2  
56.3897, 34.249  
28.928, 48.2808  
52.1768, 46.0463  
32.7689, 32.129  
47.4785, 49.8502  
65.4688, 41.0071  
80.5235, 21.6859  
50.7942, 20.6515  
47.1183, 29.0865  
42.678, 30.4248  
GENE X4  
Condition 1, Condition 2  
80.645, 128.65  
96.8842, 131.341  
87.1828, 133.058  
69.8717, 128.585  
98.8587, 118.272  
88.9541, 82.1695  
86.3054, 114.928  
61.7532, 115.177  
79.6663, 84.9782  
90.0889, 125.463  
GENE X5  
Condition 1, Condition 2  
82.5325, 200.944  
78.4302, 212.496

115.916,206.875  
86.4117,186.491  
93.7822,171.988  
66.9244,186.833  
73.9046,209.363  
90.0925,182.832  
73.9346,221.948  
91.993,167.68

AE17B017

GENE X1

Condition 1, Condition 2

67.4324, 143.431

78.5537, 101.762

77.377, 143.824

39.7974, 113.74

45.3066, 171.594

71.534, 179.755

48.0648, 175.285

47.2348, 157.136

49.3253, 132.964

57.5111, 156.83

GENE X2

Condition 1, Condition 2

-0.0845037, 35.4568

9.46271, 21.7447

-0.576484, 16.9638

6.09334, -17.8393

18.5277, 20.677

4.23551, 29.8841

4.80268, 44.5733

1.97345, 61.1397

17.8333, 41.8894

17.8014, 36.0495

GENE X3

Condition 1, Condition 2

-2.83874, 163.983

3.92022, 167.97

1.21395, 173.72

-8.26048, 180.203

41.6664, 174.059

18.6376, 167.005

2.97151, 196.517

33.0346, 193.681

39.9275, 168.901

-5.68156, 194.308

GENE X4

Condition 1, Condition 2

59.2518, 150.879

61.6832, 149.279

57.9816, 173.161

54.1755, 158.9

60.6943, 138.191

64.6819, 169.796

56.3885, 139.106

57.0024, 145.481

62.3876, 141.68

60.9807, 134.606

GENE X5

Condition 1, Condition 2

72.0338, 41.9528

94.5363, 115.822

95.5697,101.727  
101.092,108.192  
108.523,93.829  
84.7193,111.643  
88.7056,96.2793  
88.6353,76.7053  
106.677,86.3492  
94.8282,111.592

AE17B018

GENE X1

Condition 1, Condition 2

34.6852, 114.138

19.6169, 109.069

47.3701, 105.871

56.8315, 93.2627

46.0866, 96.5152

18.2747, 100.451

21.1351, 110.127

38.275, 119.688

25.86, 128.01

34.9565, 111.892

GENE X2

Condition 1, Condition 2

108.04, 98.5491

96.1882, 66.936

101.141, 107.569

94.3205, 103.398

87.8437, 69.0067

117.676, 107.656

89.9277, 113.244

85.3496, 93.4921

71.5699, 87.0105

80.5417, 86.5613

GENE X3

Condition 1, Condition 2

18.1678, 90.2097

11.8779, 147.483

29.953, 96.5644

12.4421, 125.977

5.40505, 132.758

8.27364, 74.3194

26.0936, 85.3699

25.7414, 121.503

-2.76004, 105.735

32.8937, 66.0133

GENE X4

Condition 1, Condition 2

7.29604, 119.676

11.8381, 129.058

4.43667, 116.508

2.47274, 109.011

6.38623, 122.635

6.36359, 104.621

-0.772411, 87.2611

6.30826, 95.0682

-2.09055, 127.386

0.017173, 122.388

GENE X5

Condition 1, Condition 2

29.6911, 96.0181

59.5818, 57.4952

53.344,74.3974  
41.444,61.0517  
42.5818,55.9665  
60.1898,50.7877  
56.6859,50.5084  
34.9333,58.6775  
56.9688,43.447  
36.0793,86.6125

AE17B019

GENE X1

Condition 1, Condition 2

34.61, 47.6836

43.4392, 29.1449

68.5414, 51.0761

63.0519, 57.8446

31.9037, 17.5652

58.4509, 26.1919

37.7767, 44.017

65.291, 15.3222

70.04, 36.1923

49.1225, 51.9492

GENE X2

Condition 1, Condition 2

15.4802, 24.394

13.2815, 14.1127

8.93422, 8.88976

10.2846, 9.99549

14.5269, -14.8917

11.2527, 14.407

16.5408, 14.4322

8.74554, 7.34935

16.3588, 20.2773

11.9459, 8.81598

GENE X3

Condition 1, Condition 2

16.6916, 49.7887

39.7718, 25.0269

29.3273, 42.5371

48.9101, 24.0482

45.4101, 23.4945

2.435, 19.2114

44.2462, 29.9315

35.3026, 12.5566

35.3752, -2.21257

62.0368, 42.8725

GENE X4

Condition 1, Condition 2

59.9956, 199.444

69.1755, 213.615

63.1368, 205.128

59.8465, 189.793

62.2944, 185.382

63.2674, 221.078

55.8286, 210.047

61.9619, 184.869

56.8583, 218.854

66.6663, 175.08

GENE X5

Condition 1, Condition 2

30.9129, 62.5774

48.1301, 66.4907

38.6313,38.1339  
33.4746,57.8825  
24.2301,57.0358  
50.645,47.3043  
61.0511,53.297  
62.1772,66.8796  
36.5709,46.1898  
42.224,77.8217

AE17B034

GENE X1

Condition 1, Condition 2

87.1759, 156.372

93.5167, 154.735

82.1155, 178.284

92.0563, 166.19

97.4311, 193.655

108.457, 181.154

84.2565, 148.846

105.059, 186.557

101.003, 193.569

105.633, 177.647

GENE X2

Condition 1, Condition 2

91.2594, 173.741

74.7363, 172.609

87.974, 164.78

99.8521, 178.476

81.6807, 176.408

73.6465, 145.59

86.4002, 169.489

23.2835, 181.289

78.8681, 192.992

70.1424, 184.274

GENE X3

Condition 1, Condition 2

26.6047, 124.06

35.7876, 142.599

33.4318, 119.828

34.8316, 137.793

25.4066, 130.771

36.4351, 117.531

39.3761, 116.672

29.7854, 114.089

30.5322, 125.145

37.2309, 144.353

GENE X4

Condition 1, Condition 2

27.273, 53.6637

26.024, 61.0112

15.2285, 42.9241

40.944, 54.601

19.2301, 28.9415

13.6077, 57.8198

37.1679, 45.6478

15.5642, 54.98

2.32957, 49.7766

15.618, 66.8624

GENE X5

Condition 1, Condition 2

9.40011, 142.511

18.9266, 112.054

6.79322,114.85  
4.8179,125.5  
-1.44337,100.508  
-6.81931,137.378  
5.5135,112.096  
11.4098,123.524  
11.2426,105.796  
0.37658,110.232

AE17B037  
GENE X1  
Condition 1, Condition 2  
14.4813, 205.29  
27.545, 206.459  
30.8592, 164.794  
18.2907, 153.303  
9.42216, 192.749  
28.1801, 213.248  
22.5842, 202.366  
46.6169, 200.04  
26.7008, 192.702  
40.2066, 183.767  
GENE X2  
Condition 1, Condition 2  
64.0118, 198.852  
57.3853, 174.84  
92.3474, 178.497  
59.8274, 191.103  
73.4223, 189.511  
67.3745, 159.469  
48.0804, 201.383  
70.0924, 173.245  
78.4493, 202.816  
55.5805, 190.362  
GENE X3  
Condition 1, Condition 2  
30.8356, 190.225  
20.4052, 162.669  
-7.02948, 169.288  
-12.9716, 186.338  
19.8537, 190.269  
23.0258, 176.363  
-8.00822, 205.809  
-7.60858, 194.28  
16.3386, 178.191  
15.408, 150.82  
GENE X4  
Condition 1, Condition 2  
72.3486, 138.264  
70.5877, 131.163  
66.2517, 123.072  
67.0022, 130.82  
67.8044, 158.544  
87.1849, 148.057  
69.3277, 116.347  
93.1141, 129.172  
62.6723, 171.327  
92.8331, 171.529  
GENE X5  
Condition 1, Condition 2  
35.7071, 64.204  
32.005, 33.8612

39.7639,43.6045  
31.627,45.9471  
30.3955,67.9241  
37.8273,40.3066  
42.9058,64.5819  
40.1341,43.7112  
34.4664,43.3675  
36.8711,7.25728

AE17B038

GENE X1

Condition 1, Condition 2

92.1818, 115.638

108.488, 106.704

90.2075, 111.722

93.7138, 95.0081

85.9723, 105.097

92.4837, 118.327

82.8658, 96.3243

89.0648, 121.222

96.0576, 86.8311

89.6568, 112.156

GENE X2

Condition 1, Condition 2

66.8583, 115.92

70.357, 158.164

65.9788, 143.291

68.3644, 139.765

49.7038, 152.708

67.7264, 142.341

56.3509, 123.622

58.1206, 113.177

61.6184, 146.23

56.7738, 163.739

GENE X3

Condition 1, Condition 2

7.08388, 146.736

8.06363, 120.137

-1.7346, 135.424

0.759852, 104.521

6.75803, 143.284

6.92763, 138.343

19.8969, 120.814

0.902852, 145.915

3.67226, 129.578

-3.46136, 128.036

GENE X4

Condition 1, Condition 2

94.8976, 30.4804

100.326, 68.7586

95.8371, 56.7687

86.0932, 53.8018

106.658, 63.7528

91.343, 44.079

96.3607, 33.8606

99.7363, 61.7277

96.1244, 39.2993

97.0383, 58.1588

GENE X5

Condition 1, Condition 2

31.1738, 78.3498

39.9332, 102.92

37.1001,87.7581  
21.3441,74.5837  
32.8148,118.534  
37.3143,116.153  
21.9319,111.547  
19.8958,74.8369  
16.4259,115.918  
42.978,101.189

AE17B042  
GENE X1  
Condition 1, Condition 2  
43.4683, 148.605  
41.5154, 168.926  
62.3164, 171.47  
27.267, 173.084  
38.3228, 165.245  
46.1237, 183.35  
49.8181, 189.44  
50.6292, 165.629  
38.4871, 153.248  
60.691, 126.809  
GENE X2  
Condition 1, Condition 2  
7.37536, 30.7438  
24.9812, 17.6455  
21.6931, 18.218  
10.8477, 20.9147  
13.9067, -3.69954  
13.7154, -21.13  
9.66667, -0.87291  
9.41619, 45.8167  
16.9751, -16.5553  
15.9074, 13.1562  
GENE X3  
Condition 1, Condition 2  
48.799, 27.1789  
63.6382, 32.6372  
63.9362, 33.8396  
47.8411, 26.9716  
67.3292, 49.3111  
58.0101, 15.4498  
53.5511, 33.024  
51.338, 13.6726  
54.5136, 22.4685  
70.6301, 24.636  
GENE X4  
Condition 1, Condition 2  
81.0155, 87.0388  
78.8942, 126.649  
75.2973, 113.749  
86.0347, 140.511  
105.384, 104.273  
86.6649, 97.4704  
71.9146, 102.002  
81.3032, 123.627  
98.6225, 101.347  
96.4481, 105.911  
GENE X5  
Condition 1, Condition 2  
118.203, 151.595  
101.686, 147.472

99.9841,154.303  
80.5331,114.58  
87.8445,136.172  
116.254,156.296  
97.2789,150.081  
101.114,178.303  
65.0227,136.244  
97.999,152.691

AE17B044  
GENE X1  
Condition 1, Condition 2  
23.6083, 178.647  
46.9316, 178.289  
63.9713, 180.796  
38.4667, 172.552  
58.0388, 176.142  
56.6285, 170.822  
62.9632, 193.118  
50.0297, 187.171  
12.0006, 196.322  
49.9492, 181.948  
GENE X2  
Condition 1, Condition 2  
5.99502, 234.412  
24.5953, 207.681  
11.6662, 183.146  
0.237039, 185.359  
-8.58133, 183.374  
-3.43281, 225.938  
7.58278, 196.517  
4.61436, 231.2  
9.46296, 192.77  
0.244247, 173.793  
GENE X3  
Condition 1, Condition 2  
47.1732, 110.33  
21.7616, 101.47  
35.4234, 116.822  
35.0593, 109.275  
45.2879, 112.816  
14.9678, 100.138  
22.8679, 113.884  
45.2347, 116.996  
67.1168, 108.647  
26.7663, 126.176  
GENE X4  
Condition 1, Condition 2  
36.7443, 48.7896  
63.9112, 61.4996  
48.247, 40.6794  
69.1663, 47.9108  
40.5567, 57.5838  
48.3747, 30.5251  
48.8607, 44.6704  
50.3601, 23.304  
51.0734, 51.3838  
18.5245, 50.7487  
GENE X5  
Condition 1, Condition 2  
34.1166, 36.9853  
42.9505, 32.632

27.0848,23.5473  
23.7915,19.4835  
29.0682,38.1012  
33.7961,37.4333  
28.1522,19.862  
34.8285,10.1766  
25.9192,24.3397  
34.9621,26.9174

BE16B001

GENE X1

Condition 1, Condition 2

112.804, 27.3649

87.3244, 32.4352

95.378, 36.9461

107.546, 48.8821

107.512, 51.451

93.5838, 53.7019

69.3644, 40.1632

97.865, 20.6899

97.8294, 36.2805

100.517, 30.4325

GENE X2

Condition 1, Condition 2

14.3605, 87.886

12.6361, 82.333

42.8622, 63.6485

-2.53396, 91.5221

7.79639, 127.917

18.8684, 140.291

55.6217, 60.944

12.6988, 126.934

8.01816, 103.449

11.9686, 108.512

GENE X3

Condition 1, Condition 2

89.4923, 95.8532

103.313, 90.9814

87.0355, 62.2488

82.4856, 44.4773

111.177, 68.9634

98.0545, 84.5684

108.141, 64.6837

86.3009, 62.2888

85.3619, 84.5257

96.2713, 81.1078

GENE X4

Condition 1, Condition 2

78.0909, 126.895

63.9441, 152.886

72.6522, 148.13

76.9697, 148.281

77.1202, 122.646

70.0638, 126.873

53.5367, 128.343

88.2899, 132.673

69.9004, 148.086

76.0724, 102.155

GENE X5

Condition 1, Condition 2

19.0497, 155.955

10.3376, 177.834

3.61381,173.449  
29.8255,154.935  
-3.29606,163.939  
7.13798,149.461  
10.9124,165.582  
21.9557,168.431  
27.1372,177.064  
5.95162,146.694

BE16B018

GENE X1

Condition 1, Condition 2

11.3482, 66.0802

6.6721, 55.5547

13.4404, 60.8707

-2.22725, 81.0239

31.5696, 61.2621

10.0105, 44.0439

20.8293, 95.5692

17.2167, 85.4668

2.98739, 47.7184

15.8713, 76.474

GENE X2

Condition 1, Condition 2

35.7352, 27.6434

31.3152, 45.0681

36.9446, 34.9361

57.8886, 57.3341

76.8143, 28.1585

46.0521, 41.281

25.108, 43.153

55.0236, 45.6389

61.0511, 35.3076

37.4479, 48.75

GENE X3

Condition 1, Condition 2

8.03217, 65.8854

15.0684, 75.2003

13.9871, 75.4092

20.4858, 14.0175

-2.49983, 34.8996

20.0442, 50.2565

-2.60814, 68.7935

11.2008, 55.1989

5.5516, 62.5652

32.8253, 37.0002

GENE X4

Condition 1, Condition 2

11.0413, 31.3444

22.8617, 26.2723

-7.07631, 9.79218

9.38044, 29.2628

7.00245, 13.4273

14.8643, 29.6858

-4.50317, 14.489

-1.64887, 29.5263

11.7158, 42.5626

-5.32171, 24.8443

GENE X5

Condition 1, Condition 2

52.1215, 83.4051

55.017, 137.175

23.4298,130.575  
26.4901,116.617  
27.1809,127.689  
45.9965,95.4835  
45.5574,99.0728  
48.8696,114.411  
56.9691,103.722  
37.5724,127.075

BE16B019

GENE X1

Condition 1, Condition 2

49.7255, 99.5977

28.124, 93.2233

50.2666, 167.089

28.7801, 145.469

40.9186, 164.259

49.6605, 124.371

34.7465, 166.125

13.65, 188.621

23.418, 148.758

35.4809, 182.357

GENE X2

Condition 1, Condition 2

36.572, 68.4583

38.5924, 62.6122

70.1634, 63.6553

54.1132, 58.2839

84.6776, 64.1694

19.5566, 55.3453

55.8973, 61.8561

44.3689, 61.6972

52.5663, 64.7099

69.1767, 60.4915

GENE X3

Condition 1, Condition 2

52.5127, 74.3798

50.0002, 99.7892

59.069, 73.4673

68.2522, 109.622

50.5295, 110.44

77.4329, 98.1372

86.7889, 81.2261

66.7907, 88.7915

42.1093, 115.618

53.4238, 73.1112

GENE X4

Condition 1, Condition 2

26.4553, 56.369

27.5844, 26.0227

20.5832, 31.353

23.3352, 23.6808

54.6962, 67.6713

42.7994, 24.9396

38.1606, 64.5319

47.7293, 80.9307

30.5369, 42.916

64.2654, 65.5425

GENE X5

Condition 1, Condition 2

79.7425, 33.7252

79.1993, 27.5441

61.9212,18.7385  
67.8596,45.0933  
70.6709,17.8203  
102.29,38.8244  
80.8998,15.1021  
92.8799,36.0762  
87.6568,11.2577  
71.7505,34.612

BE17B001  
GENE X1  
Condition 1, Condition 2  
53.8976, 49.4442  
36.6993, 69.375  
9.67679, 37.6118  
22.6213, 76.8662  
34.3989, 80.6865  
31.4985, 74.2304  
34.5498, 73.8999  
81.0534, 102.49  
36.0333, 103.548  
34.6287, 79.8457  
GENE X2  
Condition 1, Condition 2  
70.8906, 123.417  
77.2546, 144.84  
80.9785, 123.952  
85.9488, 132.794  
75.9954, 142.24  
82.9724, 167.456  
85.2938, 147.723  
84.7481, 163.939  
92.7419, 125.709  
91.5316, 135.359  
GENE X3  
Condition 1, Condition 2  
75.6903, 197.285  
65.8058, 193.438  
70.4601, 199.982  
86.6658, 196.861  
85.6341, 197.111  
71.106, 216.887  
74.645, 185.209  
67.5051, 189.322  
73.1605, 176.912  
93.0689, 186.551  
GENE X4  
Condition 1, Condition 2  
45.6717, 88.1302  
50.903, 103.348  
11.9405, 95.443  
40.9994, 75.1369  
42.7712, 95.379  
41.1504, 78.9424  
35.9942, 59.75  
51.1637, 87.3988  
53.9947, 96.9084  
28.2016, 61.8714  
GENE X5  
Condition 1, Condition 2  
86.2721, 15.166  
72.5249, 78.8169

88.9814,74.7249  
83.6096,42.207  
95.6602,65.5524  
99.6963,78.4899  
81.7846,38.3892  
92.5314,63.6598  
72.3109,57.2066  
80.2776,61.9758

BE17B002  
GENE X1  
Condition 1, Condition 2  
67.0247, 61.9621  
69.8128, 71.8841  
56.603, 70.3544  
68.4455, 64.7742  
67.7813, 65.8276  
70.8225, 70.2271  
53.6246, 68.9349  
67.0154, 12.4635  
56.2944, 85.0852  
58.9092, 62.7123  
GENE X2  
Condition 1, Condition 2  
47.6649, 136.084  
63.8855, 136.998  
74.5067, 131.117  
76.6704, 140.035  
58.1704, 150.552  
78.7818, 143.482  
50.0799, 133.071  
74.2722, 125.19  
65.6501, 131.212  
65.7831, 144.99  
GENE X3  
Condition 1, Condition 2  
12.3554, 180.585  
-0.574532, 200.413  
9.10102, 195.897  
0.287797, 177.41  
8.74675, 202.252  
0.734589, 190.614  
15.7926, 237.609  
8.02091, 195.823  
10.2709, 183.766  
10.9916, 190.635  
GENE X4  
Condition 1, Condition 2  
41.7603, 173.796  
45.3653, 185.492  
45.6318, 197.261  
44.9903, 207.28  
69.2062, 198.56  
52.8106, 176.217  
57.082, 198.095  
46.6, 191.925  
23.1374, 238.449  
46.378, 183.647  
GENE X5  
Condition 1, Condition 2  
36.8459, 41.2299  
63.5705, -13.1788

76.9697,12.6509  
56.1701,7.31231  
60.9314,24.4323  
54.6842,16.5655  
56.9115,14.1925  
80.3493,-9.27472  
85.4295,21.694  
69.4275,10.9874

BE17B003  
GENE X1  
Condition 1, Condition 2  
78.1177, 113.758  
76.458, 90.7645  
70.2039, 110.161  
74.018, 108.481  
82.2237, 123.768  
72.5605, 127.273  
76.0991, 103.818  
82.8101, 106.486  
70.418, 110.984  
83.1437, 115.109  
GENE X2  
Condition 1, Condition 2  
79.0204, 54.4314  
58.9115, 44.5475  
83.3019, 22.467  
95.3216, 38.2788  
75.2523, 75.7387  
43.6863, 65.9839  
64.1051, 41.2656  
85.7594, 31.3218  
58.9065, 57.5156  
57.8595, 22.5396  
GENE X3  
Condition 1, Condition 2  
15.1576, 136.532  
36.6392, 110.275  
42.6599, 104.466  
30.6661, 116.314  
23.656, 134.252  
29.9497, 116.824  
47.788, 93.2844  
26.379, 73.8837  
35.4487, 126.198  
27.7815, 103.892  
GENE X4  
Condition 1, Condition 2  
7.0507, 130.368  
-1.15719, 124.956  
23.2893, 139.533  
10.3506, 155.869  
30.1849, 75.9351  
4.76786, 102.011  
26.5829, 162.379  
13.1597, 108.432  
21.3402, 107.458  
10.9118, 172.151  
GENE X5  
Condition 1, Condition 2  
27.73, 3.1997  
41.8413, 36.0503

51.3614,33.1346  
43.2897,-11.7152  
64.84,-16.1455  
53.95,-8.25603  
65.8751,-10.8399  
51.4008,11.702  
35.7752,-12.1893  
55.3841,15.8221

BE17B005

GENE X1

Condition 1, Condition 2

-5.13331, 113.455

43.1224, 108.268

24.8932, 110.157

22.2393, 69.9483

33.017, 86.5979

49.8397, 115.077

40.4616, 96.3736

11.4436, 129.325

34.1706, 134.656

28.3422, 104.232

GENE X2

Condition 1, Condition 2

87.2326, 127.078

93.3426, 117.664

102.17, 109.8

91.6637, 103.145

76.4076, 119.911

82.6304, 128.074

85.1547, 105.795

116.391, 98.6815

83.9271, 113.731

85.5467, 107.04

GENE X3

Condition 1, Condition 2

25.9775, 110.58

11.2347, 145.294

45.047, 124.553

29.9857, 121.053

42.5408, 100.544

25.9237, 139.077

0.388459, 96.0792

14.9467, 108.719

17.3357, 143.538

16.4696, 103.375

GENE X4

Condition 1, Condition 2

61.6385, 79.2665

62.3559, 95.1595

54.9446, 72.1409

58.6105, 90.629

71.5493, 88.9649

66.768, 89.3675

86.9768, 58.9509

67.3699, 92.6948

73.8394, 68.637

82.1836, 66.845

GENE X5

Condition 1, Condition 2

19.3315, 128.928

36.636, 134.098

39.631,118.118  
27.6873,133.58  
38.9123,112.299  
30.2592,117.424  
36.3257,117.304  
11.7796,133.033  
57.0585,116.013  
47.5799,123.268

BE17B006

GENE X1

Condition 1, Condition 2

13.6866, 135.953

10.5164, 148.621

-3.31624, 148.473

8.81372, 139.105

-2.75685, 149.065

12.9963, 131.41

-7.57695, 136.46

10.5449, 153.095

2.174, 153.587

13.1328, 137.363

GENE X2

Condition 1, Condition 2

-1.42665, 113.1

-0.0393612, 133.228

14.3357, 108.166

-5.268, 120.061

13.529, 134.557

3.63657, 111.607

-1.8485, 119.473

-0.960967, 113.365

-2.26204, 88.0601

15.7252, 129.839

GENE X3

Condition 1, Condition 2

20.5815, 200.638

11.9361, 162.374

14.1928, 200.981

30.6398, 225.07

26.807, 195.589

19.1605, 189.951

39.6199, 228.484

16.6382, 184.756

28.2321, 222.314

17.8269, 174.955

GENE X4

Condition 1, Condition 2

42.082, 180.226

62.8838, 213.049

51.7452, 204.886

55.3399, 198.001

50.6232, 195.376

56.7364, 194.54

40.5343, 201.046

51.0292, 220.106

49.3663, 218.86

54.16, 198.297

GENE X5

Condition 1, Condition 2

100.727, 168.985

75.6047, 104.656

66.7616,130.926  
100.182,194.475  
92.4625,163.254  
91.6278,128.91  
89.1433,134.808  
69.4734,128.367  
108.839,174.381  
123.27,133.444

BE17B007  
GENE X1  
Condition 1, Condition 2  
19.1386, 68.2665  
17.3712, 24.2783  
23.637, 33.9293  
24.2083, 44.1484  
20.5468, 67.3324  
18.3277, 66.8386  
19.5897, 58.0252  
16.7012, 29.4495  
20.6283, 46.2723  
19.3241, 97.2479  
GENE X2  
Condition 1, Condition 2  
71.9906, 145.611  
73.9028, 174.034  
36.2749, 112.534  
89.1295, 111.815  
58.5518, 134.699  
72.4356, 100.296  
50.3006, 115.856  
85.6056, 124.744  
59.2363, 140.131  
49.3, 124.836  
GENE X3  
Condition 1, Condition 2  
96.4925, 63.3433  
107.846, 66.119  
81.3336, 56.9711  
80.3903, 71.0103  
92.9213, 84.842  
96.8534, 100.944  
99.3231, 57.5502  
97.7953, 95.2757  
111.702, 55.6554  
82.08, 67.8656  
GENE X4  
Condition 1, Condition 2  
30.4149, 135.265  
7.89409, 131.208  
20.6975, 121.192  
12.2099, 104.63  
17.4406, 112.278  
14.5081, 88.9143  
21.1553, 131.549  
36.4644, 106.68  
15.465, 90.711  
-5.37587, 123.239  
GENE X5  
Condition 1, Condition 2  
82.9472, 68.2485  
98.6654, 67.0827

72.4574,66.9414  
67.49,63.657  
83.11,66.6971  
72.9179,57.5937  
65.9996,73.9818  
64.0423,52.226  
68.9499,64.3466  
101.15,69.6852

BE17B009  
GENE X1  
Condition 1, Condition 2  
68.1429, 178.07  
52.0558, 201.207  
77.421, 181.274  
32.9008, 202.526  
60.9015, 168.552  
71.9417, 193.024  
90.2644, 181.032  
80.798, 190.316  
94.2558, 178.483  
81.0619, 172.89  
GENE X2  
Condition 1, Condition 2  
14.0705, 162.667  
33.2203, 134.408  
43.8707, 159.145  
22.2626, 153.895  
16.382, 146.429  
44.8364, 159.911  
19.8687, 148.854  
1.07036, 152.047  
32.3599, 131.51  
29.6507, 142.423  
GENE X3  
Condition 1, Condition 2  
30.2768, 130.315  
45.6529, 170.531  
27.1138, 105.917  
28.6389, 141.833  
52.683, 158.104  
54.4325, 153.876  
27.2363, 140.413  
38.0152, 177.814  
51.8424, 143.908  
51.4685, 136.029  
GENE X4  
Condition 1, Condition 2  
61.6611, 199.729  
82.676, 198.422  
63.1894, 207.195  
77.2963, 202.295  
58.3237, 184.271  
70.0958, 188.345  
76.9798, 175.03  
63.3988, 189.341  
80.6633, 185.952  
66.1013, 203.776  
GENE X5  
Condition 1, Condition 2  
81.1428, 98.6302  
93.5047, 105.36

86.802,121.12  
75.8629,62.9697  
79.2198,90.4434  
67.6501,105.633  
80.0859,102.504  
71.6205,114.21  
76.0669,108.97  
73.0582,82.5133

BE17B012

GENE X1

Condition 1, Condition 2

28.1578, 183.931

35.5204, 157.992

20.5604, 199.983

11.7706, 211.631

20.4974, 208.342

30.7988, 181.98

22.4604, 165.861

13.5094, 207.587

17.6354, 205.575

4.99365, 164.745

GENE X2

Condition 1, Condition 2

76.1554, 153.97

74.1776, 142.528

40.9736, 143.203

63.4316, 161.575

59.202, 152.631

43.9944, 141.649

68.3568, 149.016

50.8138, 146.456

44.8053, 146.392

34.0732, 145.627

GENE X3

Condition 1, Condition 2

81.0365, 64.2308

79.6042, 46.6239

94.8168, 72.3356

46.2994, 92.5775

63.8309, 71.6917

74.3374, 59.6123

77.0065, 97.8704

72.431, 92.1066

43.3391, 77.7023

79.4666, 73.7923

GENE X4

Condition 1, Condition 2

66.8727, 209.467

63.8641, 210.848

63.867, 197.75

66.314, 194.732

65.3632, 206.925

61.2513, 200.534

65.3917, 208.618

69.7848, 178.499

67.806, 184.953

64.0275, 180.145

GENE X5

Condition 1, Condition 2

13.9193, 140.797

44.0964, 146.979

57.1933,159.964  
31.6543,169.601  
34.607,141.647  
25.6634,144.264  
38.6821,178.897  
44.8662,167.112  
46.9088,141.513  
15.7858,178.315

BE17B013

GENE X1

Condition 1, Condition 2

31.4768, 27.6282

36.2915, 36.4289

34.2886, 27.1473

38.1309, 28.2566

25.755, 5.50397

24.3504, 7.05289

28.794, 16.2891

10.1647, 8.54854

6.7951, 28.2196

52.7579, 18.2137

GENE X2

Condition 1, Condition 2

110.787, 56.2515

98.0186, 42.2675

99.6273, 39.1748

103.435, 69.5765

99.2142, 49.4562

88.1594, 34.3133

101.589, 32.4474

107.022, 57.0278

95.3942, 47.8825

88.3232, 21.5322

GENE X3

Condition 1, Condition 2

66.693, 155.186

43.0459, 128.18

72.7408, 124.019

64.7224, 118.74

57.8839, 121.272

82.9334, 111.285

54.7669, 153.415

59.1626, 142.435

74.7754, 124.921

68.551, 135.295

GENE X4

Condition 1, Condition 2

111.226, 90.7669

95.7048, 83.349

96.084, 93.2786

87.9074, 89.8534

97.9199, 91.2702

103.066, 79.6739

91.3233, 95.4895

87.249, 60.4223

84.0725, 77.2273

91.6912, 62.6729

GENE X5

Condition 1, Condition 2

61.2242, 161.779

58.3591, 146.097

60.103,163.758  
70.0974,155.07  
64.5068,135.35  
54.4052,136.206  
66.0031,137.261  
63.1841,142.156  
56.7713,133.091  
61.9167,130.441

BE17B015

GENE X1

Condition 1, Condition 2

3.96987, 113.044

-6.95713, 51.0071

8.44062, 55.6119

0.00678008, 85.2045

16.8325, 63.055

9.82028, 119.579

-1.53761, 96.6933

-4.23803, 101.517

5.43303, 89.9947

-1.3522, 81.7719

GENE X2

Condition 1, Condition 2

69.3775, 27.5349

102.319, 51.4734

82.4892, 71.7804

93.1171, 69.2271

94.1169, 77.5412

74.3204, 62.2661

82.1089, 53.79

91.0308, 68.5081

102.511, 66.832

99.7511, 74.2389

GENE X3

Condition 1, Condition 2

30.4707, 160.778

32.8139, 155.425

35.3637, 143.911

38.2782, 162.059

45.9934, 172.232

36.1738, 188.825

33.1271, 165.387

39.6812, 164.984

45.925, 174.386

38.228, 177.692

GENE X4

Condition 1, Condition 2

59.7975, 106.758

58.6315, 119.565

45.6275, 118.345

49.7737, 130.969

54.3344, 101.295

59.5239, 114.487

59.0772, 98.848

47.0669, 116.594

49.4476, 125.947

56.3253, 110.496

GENE X5

Condition 1, Condition 2

79.9608, 180.726

74.8595, 163.92

46.5606,180.505  
71.5452,191.019  
101.471,153.544  
77.3189,169.661  
83.5446,181.336  
67.3667,175.79  
85.1376,143.851  
72.0727,163.704

BE17B018

GENE X1

Condition 1, Condition 2

57.5101, 144.296

70.1589, 130.809

97.9462, 115.994

105.988, 158.293

108.435, 175.621

106.482, 128.195

78.09, 146.795

109.35, 149.533

62.8751, 106.126

92.6754, 122.183

GENE X2

Condition 1, Condition 2

62.307, 41.2892

65.0767, 37.4187

64.1826, 49.2754

44.8534, 61.3662

42.1225, 57.7133

72.0738, 61.5494

56.6515, 31.4517

48.3415, 51.3276

51.8107, 39.1341

60.871, 82.2276

GENE X3

Condition 1, Condition 2

64.822, 111.336

59.0974, 144.972

53.9046, 121.595

62.1575, 100.725

63.3436, 106.701

60.9895, 130.665

58.5406, 119.028

59.2607, 96.9556

65.7832, 129.174

64.0251, 121.358

GENE X4

Condition 1, Condition 2

56.9886, 83.019

57.7621, 94.8264

51.8587, 97.1122

59.0259, 92.2743

57.2339, 92.4299

58.6094, 112.492

50.4783, 79.0649

54.7306, 79.1114

51.3103, 50.8403

47.6028, 60.9713

GENE X5

Condition 1, Condition 2

61.6152, 12.0561

55.1414, 29.5779

57.0785,15.9589  
44.6571,22.0162  
52.6071,23.8884  
52.5981,9.37942  
39.7563,-6.2988  
30.702,43.1792  
44.9288,10.2828  
46.5993,17.1245

BE17B020

GENE X1

Condition 1, Condition 2

12.2728, 43.1235

3.77853, 11.8268

32.4841, 7.74263

11.7222, 0.158146

19.3791, 23.7033

27.8418, 14.4184

4.91424, 35.0482

23.264, 15.0535

41.5436, 12.501

40.0052, 0.734074

GENE X2

Condition 1, Condition 2

88.2068, 197.681

94.3347, 139.461

78.238, 164.112

93.4919, 168.949

90.4015, 136.74

74.6304, 159.727

100.331, 141.01

87.9884, 156.463

82.681, 159.725

62.2558, 164.421

GENE X3

Condition 1, Condition 2

112.158, 147.642

93.7573, 141.206

86.8061, 137.679

99.2849, 119.854

96.2418, 125.741

97.2558, 165.891

98.5407, 155.021

107.581, 111.345

102.462, 141.898

107.069, 148.32

GENE X4

Condition 1, Condition 2

9.08781, 85.5219

12.0361, 83.3165

6.61282, 89.3722

7.964, 90.4846

19.0557, 101.794

-5.82239, 101.017

14.0243, 117.911

26.4373, 115.932

8.36838, 83.8905

8.04969, 118.43

GENE X5

Condition 1, Condition 2

30.5781, 133.071

32.7299, 143.13

29.1568,135.052  
31.7927,106.388  
24.537,156.727  
35.0895,148.603  
26.7988,167.979  
30.5701,104.169  
33.7232,119.838  
33.3372,102.641

BE17B021  
GENE X1  
Condition 1, Condition 2  
91.4887, 65.6557  
95.4765, 50.3687  
95.8537, 86.4152  
89.1491, 52.5337  
88.4589, 69.1173  
88.7631, 52.8221  
85.896, 66.8154  
107.41, 60.0173  
91.2428, 32.413  
85.3281, 49.1089  
GENE X2  
Condition 1, Condition 2  
31.5305, 117.424  
20.7683, 137.514  
13.4235, 89.4787  
3.53651, 131.6  
24.7631, 73.3787  
7.73461, 129.754  
14.2666, 143.976  
22.5403, 116.055  
13.3985, 126.002  
9.84645, 81.7222  
GENE X3  
Condition 1, Condition 2  
-1.56589, 90.8286  
9.91415, 67.5308  
-8.50938, 60.2053  
19.0491, 88.1379  
-7.41541, 86.7763  
-1.92949, 67.6082  
11.7148, 95.6079  
6.6502, 62.6104  
7.1868, 54.3466  
-10.0433, 73.7833  
GENE X4  
Condition 1, Condition 2  
80.009, 115.794  
76.9704, 117.054  
64.6003, 114.855  
66.8071, 158.54  
72.7814, 152.768  
79.7723, 126.256  
42.4048, 155.912  
38.592, 108.268  
90.5512, 136.377  
85.0214, 118.458  
GENE X5  
Condition 1, Condition 2  
-21.6416, 57.0578  
2.31431, 56.8531

7.66677,57.2994  
30.6616,65.0643  
18.605,59.5351  
33.863,69.9136  
12.439,58.4977  
-7.14643,59.0847  
15.037,50.3073  
-16.4051,65.2758

BE17B023  
GENE X1  
Condition 1, Condition 2  
32.3094, 54.7751  
41.704, 56.0264  
40.3681, 30.2013  
23.5447, 34.0477  
37.2444, 65.3268  
38.8591, 59.472  
44.9505, 70.1692  
25.0698, 70.8991  
31.1971, 47.3081  
11.937, 38.7154  
GENE X2  
Condition 1, Condition 2  
-17.0023, 50.2273  
19.8078, 38.7724  
21.7766, 26.9513  
23.934, 8.0898  
-8.44577, 24.9262  
-11.6702, 2.24393  
4.50157, 25.7711  
4.63635, 41.8436  
-0.423858, 24.412  
15.8666, 47.1988  
GENE X3  
Condition 1, Condition 2  
34.8334, 27.3458  
76.2514, -15.3852  
50.8078, 28.8684  
75.4054, 20.5026  
65.0159, 41.8622  
49.7574, 19.3809  
57.3608, 29.8334  
69.8627, 59.1026  
58.7837, 33.5406  
59.8294, 20.5672  
GENE X4  
Condition 1, Condition 2  
66.3923, 27.1749  
59.3858, 42.9902  
50.4618, 25.5066  
35.476, 15.3831  
40.6453, 36.6554  
79.8067, 49.2939  
50.9879, 31.9576  
51.498, 17.311  
67.5572, 23.5451  
47.7795, 22.7277  
GENE X5  
Condition 1, Condition 2  
96.1701, 60.7778  
96.3364, 81.4746

117.913,66.8952  
109.742,87.3829  
99.2177,53.3974  
79.9969,70.1733  
83.864,90.2872  
93.5076,96.3482  
121.011,89.4173  
109.052,75.9395

BE17B024

GENE X1

Condition 1, Condition 2

16.794, 178.364

16.3779, 173.27

43.1579, 180.528

14.8088, 186.281

16.5089, 184.946

17.2309, 179.711

-0.456223, 191.623

9.80399, 160.884

10.7807, 185.824

14.6328, 165.174

GENE X2

Condition 1, Condition 2

95.4099, 31.786

97.874, 17.1294

82.169, 96.8789

98.7915, 72.8829

85.7481, 42.1333

111.616, 54.6492

88.162, 69.9893

98.1588, 61.5014

94.9503, 70.6298

99.0792, 51.559

GENE X3

Condition 1, Condition 2

25.2987, 95.7715

22.1577, 116.152

17.7729, 64.6156

33.0658, 84.4818

7.61414, 106.475

9.49206, 135.743

41.2956, 136.323

14.2933, 123.611

10.4306, 103.709

28.4349, 147.187

GENE X4

Condition 1, Condition 2

10.4811, 24.3302

12.8936, 23.0968

8.72449, 30.9662

15.2407, 19.336

16.0354, 25.0734

15.2576, 44.3974

11.9253, 28.203

14.7754, 22.2768

14.4127, 25.1957

12.132, 16.4575

GENE X5

Condition 1, Condition 2

57.4639, -2.2803

60.051, 10.5458

69.4148,-22.6898  
49.6734,-0.733558  
77.3423,-5.95123  
69.55,12.1627  
65.1592,-8.25154  
69.964,22.6336  
77.0951,53.3152  
95.7185,-20.7338

BE17B026

GENE X1

Condition 1, Condition 2

12.4405, 22.4072

27.4742, 26.3015

13.584, 23.7596

6.00529, 19.1429

13.7052, 19.913

27.1001, 5.74552

-0.886452, 16.5442

5.68431, 34.7835

13.9843, 25.1745

3.4229, 34.5716

GENE X2

Condition 1, Condition 2

61.9742, 125.256

63.4087, 110.583

63.864, 107.337

74.409, 111.193

73.2431, 116.904

71.8713, 117.974

63.8765, 97.6158

58.8048, 110.059

62.6871, 109.329

61.8114, 123.915

GENE X3

Condition 1, Condition 2

60.2901, 127.939

66.9426, 73.7665

82.5841, 92.5998

64.46, 105.611

68.7271, 90.5255

71.4651, 65.211

71.5101, 100.59

59.7986, 76.4078

66.2886, 25.2862

71.0073, 93.9035

GENE X4

Condition 1, Condition 2

23.4962, 152.871

23.1409, 124.488

39.1534, 168.393

29.6715, 159.193

30.1982, 139.451

23.3626, 103.352

35.1709, 136.32

-4.4743, 131.363

37.7922, 131.966

20.0597, 164.06

GENE X5

Condition 1, Condition 2

25.3096, 167.929

40.3105, 135.68

29.0428,170.815  
41.752,147.076  
35.4582,162.166  
28.0974,136.039  
21.8195,147.477  
41.1316,135.067  
28.7668,139.841  
26.7376,122.946

BE17B027

GENE X1

Condition 1, Condition 2

103.233, 204.688

79.2732, 188.781

101.823, 205.873

94.9731, 195.975

75.8495, 177.352

80.0121, 187.176

112.462, 168.254

85.4906, 178.55

62.0592, 204.084

85.1836, 173.339

GENE X2

Condition 1, Condition 2

60.9987, 78.5157

77.7629, 65.5007

56.8727, 56.4103

75.0718, 66.6034

71.1566, 65.9463

79.1306, 63.8798

62.5363, 63.8135

85.8791, 42.8336

76.3298, 53.7044

67.7141, 87.508

GENE X3

Condition 1, Condition 2

63.1476, 106.696

85.0345, 143.528

64.9679, 137.594

88.6055, 113.055

86.5911, 125.291

75.2065, 135.375

55.5152, 123.941

78.5242, 134.343

80.2693, 92.2505

52.9252, 157.581

GENE X4

Condition 1, Condition 2

84.6696, 183.357

87.208, 183.033

92.8006, 146.029

88.8792, 185.079

87.2042, 156.912

77.1692, 166.754

91.169, 162.091

59.6521, 165.638

75.7028, 207.264

93.3978, 194.655

GENE X5

Condition 1, Condition 2

45.9603, 152.734

52.5812, 118.521

45.5601,132.087  
44.8364,137.743  
47.9894,118.876  
50.6913,125.479  
50.6804,148.971  
53.9571,147.128  
49.7503,146.689  
48.5617,133.192

BE17B030  
GENE X1  
Condition 1, Condition 2  
50.3719, 84.5001  
13.0232, 57.2413  
50.6742, 84.4625  
50.5966, 76.7526  
49.8253, 46.6657  
45.1107, 52.6309  
43.7894, 103.75  
30.3504, 68.5125  
35.898, 68.4811  
42.5897, 93.1847  
GENE X2  
Condition 1, Condition 2  
99.4167, 47.0496  
97.5125, 71.9244  
107.585, 73.043  
96.0298, 67.9753  
99.0072, 86.068  
110.624, 68.4572  
82.8135, 67.0371  
91.3849, 64.1617  
103.368, 62.7851  
103.465, 67.9191  
GENE X3  
Condition 1, Condition 2  
39.027, 61.4605  
10.5308, 62.1299  
40.4971, 62.3713  
51.0153, 83.5309  
29.1825, 69.7263  
26.9117, 76.8576  
47.5893, 26.7575  
42.9548, 44.9106  
43.6325, 56.8311  
36.696, 39.5205  
GENE X4  
Condition 1, Condition 2  
78.4348, 195.677  
78.5107, 173.468  
80.1133, 195.391  
82.9849, 177.065  
85.5639, 178.743  
79.9074, 173.836  
82.7616, 198.207  
88.677, 197.297  
77.9114, 209.448  
87.5421, 169.191  
GENE X5  
Condition 1, Condition 2  
50.1878, 112.174  
46.2878, 111.354

63.4636,122.098  
41.0755,121.519  
41.1455,87.4175  
60.5977,94.9471  
44.1579,123.627  
40.0546,123.305  
44.0555,128.048  
55.4758,103.587

BE17B034

GENE X1

Condition 1, Condition 2

60.5077, 210.224

78.4497, 202.507

72.3133, 208.623

89.4366, 196.079

81.6476, 186.265

75.2642, 211.669

82.8982, 173.815

72.6185, 185.293

55.632, 194.805

81.3017, 223.079

GENE X2

Condition 1, Condition 2

64.0102, 95.342

49.5941, 116.022

51.7574, 123.203

66.0964, 107.885

51.8342, 120.02

51.4644, 119.577

52.1223, 127.651

48.6544, 122.198

54.6904, 101.919

74.317, 124.324

GENE X3

Condition 1, Condition 2

93.6102, 43.6649

69.6586, 40.9199

65.655, 32.8439

75.9665, 36.4089

76.2317, 47.4026

78.5908, 41.3956

88.5046, 43.6174

94.3689, 46.7227

98.0149, 50.4432

86.966, 46.7605

GENE X4

Condition 1, Condition 2

6.20808, 185.717

-3.30969, 176.438

-7.05445, 187.778

27.9936, 171.136

6.29642, 184.224

10.9024, 175.572

30.043, 188.698

-5.55761, 174.301

11.4032, 175.944

-0.238839, 138.004

GENE X5

Condition 1, Condition 2

-13.9622, 108.538

-5.18148, 95.0747

27.5915,110.641  
-20.3226,92.657  
9.50187,118.135  
11.6395,57.8408  
7.96338,103.71  
10.7813,102.667  
-3.69822,144.13  
18.6561,112.344

BE17B036

GENE X1

Condition 1, Condition 2

4.64044, 13.2733

29.2814, 21.6033

27.9334, 35.1416

-3.86741, 12.5929

-1.74351, 28.8643

-9.48246, 40.3094

10.9002, 5.24224

-9.48898, 9.67706

12.2947, 14.1075

29.8764, 51.6199

GENE X2

Condition 1, Condition 2

25.8921, 127.691

40.153, 126.38

32.1838, 113.469

23.7447, 139.58

30.5241, 136.919

33.5461, 105.149

38.604, 156.031

33.3734, 128.577

28.7497, 90.5334

34.1878, 115.622

GENE X3

Condition 1, Condition 2

71.1604, 15.0012

76.2918, 53.1217

63.4665, 45.1095

89.4319, 47.6058

70.4558, 45.1008

95.8835, 33.8272

79.7561, 42.3095

73.4075, 22.7757

87.3464, 36.9399

91.9901, 48.4086

GENE X4

Condition 1, Condition 2

46.0182, 183.44

44.9529, 198.699

38.722, 197.45

23.6515, 174.068

30.9197, 174.113

36.2493, 185.564

40.2238, 177.672

21.4657, 190.136

39.514, 158.463

41.8235, 191.091

GENE X5

Condition 1, Condition 2

99.9377, 175.219

106.678, 194.451

95.7856,193.759  
96.2075,178.798  
87.766,190.871  
100.105,192.581  
101.608,201.56  
82.9134,194.295  
99.1652,197.631  
91.3385,184.387

BE17B038

GENE X1

Condition 1, Condition 2

33.6223, 34.3773

40.5752, 39.632

36.584, 33.3794

39.1731, 41.4949

34.0032, 15.5497

37.468, 27.6966

30.4781, 32.974

38.8083, 11.6186

31.3301, 21.3124

34.6145, 16.9625

GENE X2

Condition 1, Condition 2

71.2965, 66.3561

72.2717, 90.7061

65.965, 66.1735

100.148, 68.1816

66.9201, 66.0288

71.6542, 82.7438

88.7171, 63.4136

84.8704, 56.3988

82.5026, 68.4096

67.0282, 68.3909

GENE X3

Condition 1, Condition 2

-3.80715, 98.0786

7.8515, 94.4126

15.7547, 108.465

2.99948, 92.3888

9.607, 116.94

14.5835, 88.7223

7.05482, 123.954

15.638, 123.605

-1.03166, 125.258

18.5317, 142.463

GENE X4

Condition 1, Condition 2

31.3066, 129.045

59.9649, 107.134

47.9339, 116.871

57.3673, 131.76

47.0323, 111.964

53.0834, 132.441

54.4131, 128.124

55.8843, 140.294

69.0925, 134.537

47.2556, 136.96

GENE X5

Condition 1, Condition 2

73.7661, 127.245

67.7374, 109.329

70.9414,108.361  
53.4523,123.552  
69.3835,146.78  
89.9234,138.149  
71.9063,117.663  
57.6151,120.898  
75.5735,110.779  
50.1651,112.311

BE18B001  
GENE X1  
Condition 1, Condition 2  
17.6775, 83.7098  
21.5622, 95.8977  
24.3049, 91.1413  
18.2926, 92.3606  
19.8932, 95.689  
17.4551, 112.085  
18.4884, 84.9059  
21.0114, 87.9769  
21.0314, 82.8734  
18.4326, 105.975  
GENE X2  
Condition 1, Condition 2  
41.5806, 176.232  
32.5777, 191.424  
19.6147, 208.911  
28.2755, 175.061  
35.984, 193.714  
26.1971, 185.849  
54.581, 185.89  
19.3522, 179.583  
49.336, 148.655  
62.9855, 149.014  
GENE X3  
Condition 1, Condition 2  
50.2257, 183.567  
46.6805, 163.179  
38.2421, 178.795  
38.3168, 173.501  
24.7964, 172.465  
13.7526, 179.728  
11.868, 170.593  
29.9854, 177.854  
41.4702, 182.659  
39.7216, 166.959  
GENE X4  
Condition 1, Condition 2  
110.255, 107.031  
86.9062, 129.87  
100.601, 120.409  
108.988, 142.027  
112.288, 130.429  
97.573, 131.633  
110.587, 129.465  
98.6101, 138.942  
94.6352, 127.508  
107.531, 136.34  
GENE X5  
Condition 1, Condition 2  
18.3134, 45.8643  
16.0505, 38.8688

35.2598,51.2254  
31.2094,80.4713  
47.529,46.3478  
29.5964,35.6064  
25.6455,34.4767  
24.2647,47.8794  
21.4122,37.72  
26.5357,48.059

BE18B002  
GENE X1  
Condition 1, Condition 2  
93.4703, 18.8714  
71.5477, 14.0034  
98.6499, 25.647  
103.744, 17.7685  
122.604, 9.25512  
119.606, 29.1244  
127.199, 31.81  
115.279, 15.2311  
95.1779, -4.02551  
111.197, 30.989  
GENE X2  
Condition 1, Condition 2  
84.7267, 51.3949  
76.4127, 48.65  
67.381, 19.5973  
81.3479, 37.8577  
105.591, 45.8994  
67.3174, 32.4169  
67.9909, 87.2216  
72.3118, 44.2051  
104.569, 42.8294  
85.7382, 70.1459  
GENE X3  
Condition 1, Condition 2  
33.7449, 57.3037  
54.3147, 36.9803  
47.96, 50.7626  
58.7641, 65.287  
63.7187, 57.4823  
46.8859, 38.6466  
52.467, 57.9874  
64.0901, 14.7084  
51.5203, 32.3433  
40.6933, 74.4927  
GENE X4  
Condition 1, Condition 2  
73.2896, 28.4542  
71.093, 45.4198  
68.8115, 45.2115  
70.5734, 59.6834  
63.9566, 54.3497  
72.1902, 57.0077  
85.9221, 61.4861  
73.9373, 38.3612  
79.8009, 37.7176  
80.9961, 42.6878  
GENE X5  
Condition 1, Condition 2  
76.7021, 190.977  
74.4521, 206.013

76.8029,197.561  
72.0502,177.825  
79.3977,205.957  
79.9002,194.614  
78.598,192.08  
74.2869,210.942  
81.8879,198.07  
65.0579,185.445

BE18B004

GENE X1

Condition 1, Condition 2

35.325, 122.28

16.224, 162.807

8.6115, 110.032

33.1145, 151.979

42.3784, 95.3141

32.2475, 141.931

45.1027, 104.608

43.2704, 120.192

25.3563, 122.889

44.572, 82.5128

GENE X2

Condition 1, Condition 2

-10.0014, 37.8053

6.93508, 39.4081

14.936, 44.0658

23.4946, 5.33146

1.39754, 37.8527

17.7005, 38.8758

24.2164, 55.3556

5.09891, 48.5051

3.67544, 53.1827

-11.1485, 52.4017

GENE X3

Condition 1, Condition 2

53.5863, 50.9723

30.9082, 17.1077

34.3046, 60.613

59.947, 41.3738

53.7189, 35.3854

64.2459, 19.9762

48.5597, 38.6457

64.0131, 61.8166

88.2024, 12.5899

52.9403, 23.6091

GENE X4

Condition 1, Condition 2

9.65811, 199.69

7.17939, 223.257

22.0494, 195.267

8.72923, 169.624

20.944, 192.596

31.8828, 202.992

18.7387, 200.812

37.7042, 215.604

36.7777, 200.728

30.5397, 216.386

GENE X5

Condition 1, Condition 2

22.9481, 48.1859

37.0209, 46.0405

32.849,22.7081  
48.7159,70.4777  
42.4394,61.7397  
36.321,63.3035  
41.3131,52.5609  
43.8329,61.4485  
47.3604,60.4036  
36.6827,58.7877

BE18B014

GENE X1

Condition 1, Condition 2

42.979, 110.387

61.8146, 100.99

84.8872, 90.1242

77.6916, 77.5734

71.1723, 87.9524

63.1954, 108.014

93.0106, 98.3007

87.8654, 86.1026

59.1784, 87.9997

77.0674, 86.2348

GENE X2

Condition 1, Condition 2

14.8738, 179.296

29.538, 176.691

20.035, 194.924

25.3969, 167.92

12.6613, 218.384

20.6673, 208.991

13.321, 209.386

14.6744, 195.539

23.6414, 189.854

13.9635, 188.377

GENE X3

Condition 1, Condition 2

62.9272, 31.733

53.4841, 40.4925

61.214, 57.2398

57.8385, 56.091

58.0954, 79.6754

62.8324, 54.9672

59.6185, 28.5346

62.2176, 61.8896

59.3763, 60.8386

61.9211, 69.885

GENE X4

Condition 1, Condition 2

1.69858, 137.274

0.232025, 149.423

12.247, 135.621

8.41511, 131.571

-0.0834354, 117.237

10.8836, 162.21

8.48257, 143.001

16.3753, 153.402

8.17084, 150.086

-5.50214, 135.543

GENE X5

Condition 1, Condition 2

17.4443, 108.277

8.7156, 125.24

-2.43563,135.434  
1.59161,110.927  
2.89553,55.9889  
3.97852,141.127  
-11.4573,98.7363  
14.274,126.261  
11.4451,100.989  
15.9678,130.968

BE18B015

GENE X1

Condition 1, Condition 2

24.3196, 10.9303

24.1773, 50.5167

24.8891, 70.5496

25.8705, 38.6044

24.7606, 18.5533

25.2029, 26.52

22.1259, 43.4943

29.2594, 47.1202

21.7015, 23.8599

28.1587, 74.9181

GENE X2

Condition 1, Condition 2

18.7295, 105.829

32.865, 71.7167

25.255, 105.104

25.9471, 111.004

22.4552, 126.857

33.4529, 107.709

30.4038, 96.6555

37.7835, 84.5555

17.4098, 104.051

26.6788, 126.192

GENE X3

Condition 1, Condition 2

42.2381, 92.7924

44.0103, 94.2218

40.1028, 81.8327

29.9968, 91.1464

36.91, 89.4624

49.0677, 82.8691

32.9608, 48.187

48.7191, 77.7406

47.9759, 80.8509

49.3586, 50.2802

GENE X4

Condition 1, Condition 2

48.2463, 78.238

59.9803, 100.994

52.5668, 102.389

53.7217, 68.5563

41.8189, 86.2867

67.0334, 74.5359

51.9527, 106.712

45.6193, 108.086

54.952, 63.5054

29.5902, 123.739

GENE X5

Condition 1, Condition 2

53.0982, 115.715

61.6314, 124.539

47.9934,121.708  
81.7949,138.493  
74.3048,134.271  
74.4217,140.598  
53.1756,138.992  
66.1988,125.376  
42.7655,132.007  
68.7155,108.09

BE18B024

GENE X1

Condition 1, Condition 2

100.637, 79.0669

99.6852, 86.4155

68.1388, 90.0613

71.3914, 88.9133

75.7406, 87.1753

88.5036, 91.1424

74.5155, 110.422

85.5905, 91.309

81.4608, 107.697

74.3196, 65.9611

GENE X2

Condition 1, Condition 2

95.8101, 72.5971

80.5794, 61.4868

91.6124, 85.232

80.0478, 67.8992

103.27, 61.0351

92.2877, 72.9584

93.045, 75.7031

93.3922, 71.2785

101.615, 80.6925

76.7188, 71.1677

GENE X3

Condition 1, Condition 2

37.4843, 47.0675

33.9803, -13.9245

38.5718, 55.9865

42.9179, 48.993

66.6277, 59.6182

18.7356, 56.3089

28.6579, 43.4274

31.1846, 50.7033

4.06738, 37.7884

14.1815, 0.164651

GENE X4

Condition 1, Condition 2

93.4793, 9.29507

112.51, 8.92447

93.249, 5.20223

87.4012, 1.87214

114.909, 21.9765

115.655, 20.917

79.0952, 33.7212

112.287, 25.7075

75.5976, -7.34868

85.8298, 2.7014

GENE X5

Condition 1, Condition 2

33.3421, 108.666

33.0427, 99.0633

37.9018,127.648  
41.814,104.129  
41.595,129.156  
40.0801,132.78  
40.7303,122.979  
19.1151,111.29  
33.2878,127.397  
36.5204,111.827

BE18B029

GENE X1

Condition 1, Condition 2

8.43731, 196.213

21.5247, 178.511

34.2167, 185.381

-11.7328, 181.792

-12.8126, 181.225

4.76779, 191.607

-25.9435, 176.397

5.95576, 187.985

-9.49777, 192.888

-6.00412, 187.867

GENE X2

Condition 1, Condition 2

97.3463, 136.075

94.4286, 147.139

85.7529, 185.663

90.3973, 164.118

97.2613, 132.808

87.3154, 148.643

95.0162, 152.823

89.6646, 155.417

86.3712, 154.727

88.8681, 167.608

GENE X3

Condition 1, Condition 2

39.3447, 34.9562

58.3819, 37.6581

60.6377, 40.4632

39.8381, 37.4139

18.0816, 64.9494

16.4046, 29.7243

60.3421, 55.617

49.9905, 48.2608

47.0118, 53.4898

56.6578, 56.8155

GENE X4

Condition 1, Condition 2

20.2866, 19.1901

-5.13215, 54.6304

20.0468, 37.9588

-12.1867, 40.308

1.73918, 42.6748

17.0949, 18.769

6.72537, 47.2888

27.5115, 30.1383

4.77625, 41.0533

15.4759, 26.0624

GENE X5

Condition 1, Condition 2

35.4814, 57.7083

-6.24715, 103.044

-7.73216,104.248  
-1.9294,72.2125  
-2.34214,93.3785  
6.19181,111.558  
5.97661,66.3138  
10.7333,95.0191  
14.5435,128.946  
5.33921,85.0083

BE18B034  
GENE X1  
Condition 1, Condition 2  
6.9268, 178.705  
15.766, 206.509  
17.7494, 145.966  
43.535, 168.037  
-1.96533, 198.528  
53.7966, 207.542  
40.7962, 152.272  
18.0777, 186.876  
26.6627, 171.394  
17.226, 180.612  
GENE X2  
Condition 1, Condition 2  
59.8805, 117.253  
89.0154, 133.944  
64.5166, 131.58  
59.7549, 153.14  
87.007, 129.783  
57.0594, 121.068  
90.6007, 155.243  
69.1921, 148.665  
62.502, 163.838  
45.4693, 130.306  
GENE X3  
Condition 1, Condition 2  
76.8929, 12.3806  
70.4353, 52.3355  
68.4217, 12.0921  
62.3605, 52.4259  
68.685, 32.95  
71.136, 19.6986  
79.2964, 9.47115  
69.0155, 27.9313  
83.2499, 11.179  
75.0327, 7.03004  
GENE X4  
Condition 1, Condition 2  
-4.55412, 189.767  
10.4866, 178.74  
-2.6547, 179.338  
27.1273, 184.972  
21.3462, 172.348  
12.2903, 165.977  
18.3302, 164.332  
11.0158, 182.739  
1.25623, 171.637  
7.91772, 175.148  
GENE X5  
Condition 1, Condition 2  
55.828, 8.82955  
57.9519, 9.45547

51.7986,15.9536  
55.569,26.9591  
53.3979,10.0955  
62.1415,8.44742  
60.8273,13.6534  
52.7649,23.0361  
58.3035,8.49305  
60.134,12.3315

BE18B036

GENE X1

Condition 1, Condition 2

56.1467, 100.347

37.5557, 107.728

20.5935, 93.2554

61.0861, 85.5291

41.7379, 107.743

41.8938, 116.712

34.5783, 106.508

31.1431, 107.917

28.079, 106.449

15.6588, 99.5441

GENE X2

Condition 1, Condition 2

26.2905, 157.413

20.9914, 112.835

38.6701, 91.4053

48.0904, 107.233

30.498, 117.773

38.98, 139.203

35.1428, 121.589

22.3934, 106.948

41.7335, 121.336

20.4191, 133.19

GENE X3

Condition 1, Condition 2

86.4096, 71.266

91.3468, 65.741

74.938, 60.8179

68.8114, 99.7864

61.2953, 89.4719

102.28, 76.8498

82.4995, 76.2794

87.0582, 95.7359

73.3725, 77.1978

65.2497, 64.2552

GENE X4

Condition 1, Condition 2

31.8875, 28.5853

31.007, 63.7461

38.6369, 87.4908

41.2659, 62.6344

51.9347, 35.1994

33.3772, 79.7951

43.7205, 75.4772

35.2653, 91.7542

37.8513, 60.3707

35.4979, 40.1533

GENE X5

Condition 1, Condition 2

54.4548, 210.273

35.9829, 178.482

56.6611,177.693  
45.932,184.901  
52.1981,187.017  
45.6595,202.421  
46.3018,152.246  
57.6971,216.71  
52.153,205.823  
39.0436,174.37

BE19B001  
GENE X1  
Condition 1, Condition 2  
47.7327, 176.629  
24.6816, 168.01  
21.7809, 169.476  
33.3893, 177.643  
35.6908, 172.353  
36.1316, 187.618  
15.0412, 152.403  
27.2463, 164.512  
44.8032, 134.192  
46.9786, 120.317  
GENE X2  
Condition 1, Condition 2  
71.8647, 171.026  
72.842, 154.122  
71.8465, 165.192  
70.759, 155.132  
66.6489, 145.943  
66.2, 155.875  
58.7402, 144.232  
68.7506, 153.938  
54.8723, 164.048  
73.2813, 141.325  
GENE X3  
Condition 1, Condition 2  
75.7156, 56.5034  
89.5579, 36.5607  
101.121, 40.7698  
108.171, 22.3908  
69.6092, 51.4013  
98.5873, 25.1816  
104.851, 31.5976  
79.1582, 47.1344  
92.7108, 64.9931  
114.506, 71.2171  
GENE X4  
Condition 1, Condition 2  
77.6322, 77.8887  
66.0163, 78.2112  
64.7783, 75.9016  
72.6208, 83.768  
87.282, 60.3295  
72.9618, 75.8435  
60.942, 37.4872  
61.6763, 67.8941  
69.2409, 62.424  
108.53, 68.822  
GENE X5  
Condition 1, Condition 2  
3.16168, 85.2842  
32.7496, 70.0458

24.0528,94.4528  
8.62508,100.929  
3.40369,102.843  
22.6535,95.281  
16.3996,73.0884  
-5.64334,101.465  
16.6837,90.3252  
20.4414,70.7123

BE19B002  
GENE X1  
Condition 1, Condition 2  
46.4349, 69.5831  
34.225, 98.2349  
33.9168, 60.8317  
42.0858, 56.6614  
29.4565, 84.488  
37.5167, 44.1518  
43.2388, 49.1646  
40.5459, 76.3167  
33.9497, 88.4553  
29.2911, 75.2409  
GENE X2  
Condition 1, Condition 2  
50.7646, 131.422  
54.9701, 146.975  
61.8094, 140.962  
58.2231, 140.88  
58.4575, 124.315  
53.5534, 134.922  
60.801, 161.369  
54.2746, 157.316  
57.0603, 151.064  
52.5015, 163.484  
GENE X3  
Condition 1, Condition 2  
10.8754, 91.4384  
13.4799, 75.7468  
22.6014, 86.7939  
20.5155, 94.2966  
5.37593, 67.6705  
12.2006, 77.9522  
4.61632, 112.924  
-3.28537, 83.0489  
13.5799, 78.3408  
-8.53303, 106.971  
GENE X4  
Condition 1, Condition 2  
62.293, 98.2714  
72.1537, 83.4228  
61.7381, 95.8732  
65.6403, 113.01  
78.6601, 104.45  
77.3026, 91.0408  
69.2145, 72.3665  
78.0573, 102.912  
47.3675, 105.498  
68.0919, 79.287  
GENE X5  
Condition 1, Condition 2  
-0.165383, 119.819  
-7.06383, 136.092

8.88114,149.351  
-7.65299,124.279  
13.3639,159.959  
-0.762708,130.481  
-2.85686,116.956  
6.77275,137.263  
2.25742,148.873  
-1.78075,120.293

BE19B005

GENE X1

Condition 1, Condition 2

36.2435, 128.625

45.4083, 86.8502

46.1737, 114.227

49.0348, 97.1415

44.8187, 85.2192

51.5761, 91.1346

43.5368, 87.7043

50.2952, 142.304

45.6251, 139.152

45.1721, 100.351

GENE X2

Condition 1, Condition 2

48.5692, 71.5923

64.3883, 66.7247

49.0344, 80.4476

48.8265, 59.321

37.8926, 73.0673

49.8117, 63.5267

66.3972, 68.0595

75.6215, 66.9285

58.8972, 73.7595

75.6544, 60.7786

GENE X3

Condition 1, Condition 2

86.7517, 12.2886

97.1247, 30.144

92.0737, -12.9156

87.4923, -65.7179

65.1737, 11.1131

107.962, 9.04548

80.0018, -20.7357

105.464, -14.1583

109.579, 9.22507

115.611, 14.6918

GENE X4

Condition 1, Condition 2

80.3239, 88.0894

82.0399, 121.94

69.7691, 107.604

69.8541, 115.157

84.358, 110.242

72.4391, 119.269

46.7314, 98.1974

77.9068, 79.2636

67.9399, 94.9313

83.4885, 106.988

GENE X5

Condition 1, Condition 2

8.19886, 69.7671

0.425906, 78.5006

24.7464,81.2209  
17.0034,94.9966  
18.9487,87.9412  
-13.5359,74.5687  
26.8642,63.8962  
-2.76691,71.9346  
11.6829,69.7877  
-7.19518,62.6909

BE19B010  
GENE X1  
Condition 1, Condition 2  
20.5458, 47.4509  
41.8697, 43.1273  
37.7829, 82.8528  
1.69096, 16.9282  
43.6151, 113.875  
26.0301, 24.7483  
41.6811, 19.4682  
36.9938, 58.6818  
21.8899, 55.3703  
-5.77164, 25.7213  
GENE X2  
Condition 1, Condition 2  
44.2928, 62.1708  
46.4848, 75.6557  
42.3253, 72.6168  
41.0806, 79.0518  
35.4911, 53.6703  
62.8301, 77.7623  
70.7568, 71.4742  
58.5742, 59.067  
38.1037, 36.6023  
68.8796, 58.6137  
GENE X3  
Condition 1, Condition 2  
81.8374, 75.3135  
76.7088, 40.718  
75.8758, 47.6821  
82.3293, 23.4189  
78.5534, 87.3334  
83.4501, 81.3457  
81.3152, 38.7696  
79.6545, 45.2273  
81.9122, 59.8648  
88.0147, 51.3825  
GENE X4  
Condition 1, Condition 2  
75.8255, 193.978  
83.5195, 180.9  
80.3243, 171.235  
80.3439, 185.379  
82.5315, 193.446  
82.8246, 175.725  
79.1383, 195.552  
84.7863, 170.836  
79.4764, 182.151  
84.5269, 197.889  
GENE X5  
Condition 1, Condition 2  
86.3937, 64.863  
111.152, 105.748

81.5751,106.622  
102.834,95.2985  
75.5008,111.483  
105.032,77.4772  
84.8629,66.1722  
85.4261,123.701  
85.9437,87.6911  
83.6353,67.3665

BE19B011  
GENE X1  
Condition 1, Condition 2  
47.8205, 204.802  
43.7543, 199.617  
41.0804, 149.33  
45.6626, 173.19  
52.2962, 178.047  
45.6376, 201.834  
37.677, 184.548  
21.8914, 210.184  
30.5833, 200.328  
37.917, 192.001  
GENE X2  
Condition 1, Condition 2  
0.465266, 122.155  
5.14901, 126.499  
3.7111, 134.1  
7.38883, 145.513  
6.49618, 110.283  
6.60337, 136.169  
0.120116, 139.716  
1.70205, 128.871  
6.75116, 112.11  
7.97946, 139.931  
GENE X3  
Condition 1, Condition 2  
76.7398, 230.132  
68.8745, 191.097  
73.0261, 195.343  
86.9309, 195.139  
64.2958, 197.559  
81.4859, 185.381  
67.6715, 173.463  
73.8268, 184.29  
61.3305, 209.936  
89.95, 213.769  
GENE X4  
Condition 1, Condition 2  
35.3165, 168.237  
0.198745, 159.055  
28.661, 196.081  
30.9141, 147.755  
5.80199, 157.347  
18.8712, 139.669  
30.9119, 177.002  
23.5902, 182.365  
28.3501, 216.238  
32.5424, 187.397  
GENE X5  
Condition 1, Condition 2  
81.6933, 17.6703  
89.1953, 23.1664

88.8917,15.5504  
87.2395,16.1391  
91.6927,16.3948  
86.8137,23.0238  
92.3893,13.7627  
96.8673,25.3137  
106.178,18.7844  
90.1833,22.7377

BE19B012  
GENE X1  
Condition 1, Condition 2  
36.5503, 82.6549  
49.3799, 114.232  
46.4977, 92.442  
47.3186, 95.0768  
58.2532, 77.8997  
35.2449, 92.5014  
51.4537, 87.2307  
63.1907, 80.1976  
47.1872, 66.4766  
41.8942, 97.5219  
GENE X2  
Condition 1, Condition 2  
39.0168, 155.297  
34.584, 143.64  
32.8444, 151.017  
22.9074, 128.697  
6.22114, 113.891  
21.69, 138.756  
19.9872, 138.435  
14.4873, 143.079  
27.5016, 126.799  
27.7517, 117.637  
GENE X3  
Condition 1, Condition 2  
49.229, 120.14  
70.0643, 162.509  
37.4263, 161.379  
25.3817, 163.646  
42.3131, 142.88  
54.9808, 152.494  
61.1511, 159.195  
35.9375, 154.98  
71.4384, 142.204  
50.9799, 148.032  
GENE X4  
Condition 1, Condition 2  
72.784, 145.132  
54.3078, 107.897  
65.1937, 116.543  
71.1995, 143.252  
66.9224, 146.666  
86.1554, 117.394  
81.474, 134.334  
74.3148, 98.4714  
74.2656, 134.877  
75.6229, 104.635  
GENE X5  
Condition 1, Condition 2  
9.86851, 49.9989  
15.3048, 36.0597

14.8478,68.7543  
3.07131,47.376  
11.1037,49.7162  
4.47673,56.4322  
7.7039,57.4258  
11.327,88.1525  
5.95265,53.488  
4.60358,78.294

BE19B014  
GENE X1  
Condition 1, Condition 2  
2.35673, 55.4849  
10.5136, 25.2013  
2.30684, 32.8903  
0.684857, 59.3853  
5.46882, 26.0129  
-0.771883, 41.1049  
14.4401, 53.1026  
24.5621, 69.4246  
7.44604, 39.4843  
0.516585, 36.009  
GENE X2  
Condition 1, Condition 2  
66.6482, -3.75672  
55.4769, 24.8433  
55.2619, 28.3115  
45.1171, 14.1373  
57.0913, 23.09  
66.4158, 28.5883  
58.5173, 21.8825  
60.3498, 22.4628  
68.7225, 47.4682  
70.1793, 50.0502  
GENE X3  
Condition 1, Condition 2  
98.0356, 174.759  
108.613, 191.132  
110.821, 174.058  
110.89, 164.976  
118.042, 169.178  
95.0428, 198.531  
86.6692, 174.876  
90.6589, 187.161  
102.35, 190.28  
108.694, 143.291  
GENE X4  
Condition 1, Condition 2  
70.2926, 53.3231  
74.5936, 34.937  
66.948, 43.0524  
64.8466, 51.693  
59.768, 31.6724  
75.8926, 64.287  
81.6181, 44.0876  
63.2019, 43.6279  
68.6993, 37.3681  
81.1593, 39.8133  
GENE X5  
Condition 1, Condition 2  
67.3812, 33.155  
51.1255, 29.8225

43.0719,75.1279  
66.3581,59.9846  
69.6111,53.678  
50.5267,54.7727  
71.4602,41.4286  
72.6072,16.0534  
53.188,36.9523  
54.1843,39.154

BE19B015

GENE X1

Condition 1, Condition 2

19.6131, 178.116

31.6952, 159.815

32.4101, 191.168

26.904, 197.28

28.1764, 159.296

54.6729, 157.39

41.1488, 179.277

47.2238, 145.131

45.6964, 184.631

69.0024, 172.003

GENE X2

Condition 1, Condition 2

89.2346, 128.82

59.3199, 178.126

87.0538, 150.956

94.4893, 169.975

92.8718, 165.665

93.3444, 152.967

79.489, 149.217

88.5435, 160.772

74.8514, 157.068

88.9043, 148.752

GENE X3

Condition 1, Condition 2

-8.82058, 38.3923

4.79073, 58.5524

-4.03642, 54.9046

3.48239, 68.6084

-6.0259, 34.7669

-14.8837, 38.0469

0.840786, 76.7928

-18.9038, 28.1241

-8.10837, 23.7478

13.9097, 52.3572

GENE X4

Condition 1, Condition 2

67.0139, 131.033

65.541, 150.973

42.3041, 132.972

59.5352, 176.761

62.7223, 169.175

103.924, 126.315

39.017, 134.098

51.7762, 145.898

57.6807, 136.28

68.6981, 102.955

GENE X5

Condition 1, Condition 2

63.4618, 137.093

58.055, 130.744

60.2767,124.578  
58.8163,147.587  
62.4694,140.807  
60.4047,142.53  
62.5748,124.148  
61.863,129.522  
61.3845,143.404  
62.4689,141.069

BE19B018

GENE X1

Condition 1, Condition 2

90.4811, 78.9993

88.6921, 84.3875

91.6176, 98.2034

97.7164, 101.02

108.978, 112.456

88.0983, 98.7275

94.6171, 108.939

97.1851, 68.5859

100.544, 106.876

74.8898, 97.1698

GENE X2

Condition 1, Condition 2

92.1167, 95.4017

93.9781, 102.61

124.53, 99.8336

102.328, 120.396

102.835, 99.1686

97.7153, 82.5369

79.0583, 83.9535

101.7, 106.678

88.1143, 125.04

90.6788, 80.8849

GENE X3

Condition 1, Condition 2

99.4175, 121.353

100.959, 115.533

96.9141, 123.511

94.7071, 87.1327

73.5614, 110.171

99.0476, 114.719

76.1703, 130.33

76.7552, 117.353

95.3666, 122.062

96.9045, 123.233

GENE X4

Condition 1, Condition 2

-2.04826, 124.736

32.1266, 81.4599

36.9927, 104.125

9.20854, 82.3089

23.7015, 106.668

23.2067, 98.4097

22.1612, 114.857

21.7736, 133.545

39.5788, 93.1731

18.0315, 171.465

GENE X5

Condition 1, Condition 2

41.9446, 35.6412

34.5713, 51.0478

22.6193,46.2202  
47.9499,-3.97474  
24.5916,33.2938  
14.5417,25.1993  
27.6751,89.1562  
32.7992,67.5921  
36.787,13.8975  
42.7799,5.23981

BE19B019

GENE X1

Condition 1, Condition 2

46.1534, 130.133

1.08419, 206.753

19.5289, 164.593

42.7878, 169.302

29.0784, 147.508

7.0393, 154.344

25.4772, 156.974

27.5627, 151.817

29.1189, 172.132

37.9434, 143.832

GENE X2

Condition 1, Condition 2

51.6233, 86.8653

33.0343, 63.0507

33.5199, 70.5386

44.9723, 65.7034

2.78289, 82.1813

25.3712, 71.3078

38.365, 80.7303

44.9384, 89.286

22.424, 88.1903

23.3533, 87.7721

GENE X3

Condition 1, Condition 2

76.689, -3.00981

98.0365, 18.8774

70.9223, 26.6364

70.5066, 28.3476

61.8146, 36.8607

72.7663, 34.6832

73.2111, -6.21632

32.6486, 31.6572

65.7412, 24.7523

71.5984, 28.0875

GENE X4

Condition 1, Condition 2

68.3328, 95.9918

68.9225, 153.956

81.9127, 143.712

74.0674, 109.186

49.5764, 100.009

73.1171, 144.177

99.0189, 106.573

67.5661, 95.0223

78.5806, 126.855

65.5067, 141.008

GENE X5

Condition 1, Condition 2

83.1316, 172.963

96.7809, 191.138

83.2574,181.104  
80.1346,187.37  
101.697,167.599  
102.646,228.942  
85.0432,146.976  
97.4876,190  
94.2458,161.892  
102.658,168.478

BE19B020  
GENE X1  
Condition 1, Condition 2  
0.946851, 5.36904  
28.1536, -16.647  
0.443913, 4.07107  
28.2785, -9.29233  
-0.321922, 37.4392  
21.2664, 10.4158  
36.8238, 40.9322  
12.253, 28.7368  
7.12959, 26.0415  
21.6602, 45.233  
GENE X2  
Condition 1, Condition 2  
12.3073, 81.9248  
13.1331, 46.7925  
28.8906, 37.0915  
13.1074, 69.7464  
4.35506, 49.9799  
5.74758, 55.2203  
2.83303, 48.1604  
33.8919, 57.1436  
2.86915, 69.0181  
1.46192, 73.3183  
GENE X3  
Condition 1, Condition 2  
3.96465, 83.7431  
8.62197, 94.9201  
10.7767, 91.9204  
20.7142, 87.4664  
2.72945, 86.9516  
14.5279, 76.8738  
26.8631, 98.6358  
14.2877, 75.4814  
9.97947, 97.2987  
24.7938, 113.14  
GENE X4  
Condition 1, Condition 2  
76.677, 157.285  
102.727, 141.618  
76.7236, 110.868  
48.9124, 121.444  
83.4936, 138.296  
75.4577, 136.477  
76.4914, 144.466  
82.9214, 98.0357  
67.5484, 159.885  
97.4141, 129.697  
GENE X5  
Condition 1, Condition 2  
57.911, 187.017  
67.4046, 211.328

65.886,201.174  
44.0059,205.276  
56.9476,161.173  
66.4667,206.474  
72.3927,210.987  
63.3154,187.53  
66.7143,182.925  
69.0301,179.975

BE19B023

GENE X1

Condition 1, Condition 2

110.021, 55.3226

102.131, 36.6395

95.3544, 44.6882

90.7341, 49.8171

90.6308, 45.1788

100.012, 35.1703

102.355, 53.8962

100.44, 27.4893

90.745, 34.4328

87.7486, 26.5925

GENE X2

Condition 1, Condition 2

-1.04482, 109.442

-3.23221, 100.86

5.06822, 97.8178

-0.823015, 108.067

3.58945, 113.344

2.14747, 117.097

0.498402, 136.688

2.73589, 89.3803

5.34606, 101.205

2.09348, 83.3647

GENE X3

Condition 1, Condition 2

92.1249, 103.351

88.7428, 138.567

93.723, 103.287

106.022, 115.751

99.4971, 136.341

93.3286, 149.883

88.2577, 133.672

93.0384, 134.865

102.496, 127.885

82.7265, 135.196

GENE X4

Condition 1, Condition 2

86.8337, 75.2023

78.6855, 105.097

92.7114, 121.299

84.7741, 105.301

89.3137, 118.177

94.4822, 89.6919

84.1082, 107.577

78.6016, 74.0839

90.7543, 63.2617

64.4719, 98.5292

GENE X5

Condition 1, Condition 2

87.6665, 121.189

87.6026, 89.8597

90.6652,86.1342  
86.8301,72.2417  
87.9428,108.789  
90.9083,102.278  
85.64,48.8158  
89.8568,109.794  
89.2656,115.635  
87.9194,70.0957

BE19B024

GENE X1

Condition 1, Condition 2

65.6949, 147.054

65.3033, 111.508

60.3708, 83.6598

62.6846, 119.506

74.0363, 85.1737

71.6501, 102.645

78.8322, 107.036

87.7434, 114.383

78.2077, 104.49

81.6498, 120.892

GENE X2

Condition 1, Condition 2

22.1879, 31.8437

38.5899, 36.7183

13.7949, 58.3881

14.8369, 37.5093

27.6282, 40.4394

1.88255, 22.2491

29.4316, 23.906

16.8858, 21.7992

9.83834, 27.2905

19.7563, 15.583

GENE X3

Condition 1, Condition 2

46.8317, 150.727

63.5324, 138.777

50.4827, 122.137

51.9956, 143.173

38.8196, 145.622

51.2158, 140.004

34.1821, 157.475

40.8197, 118.58

59.4393, 111.539

44.5613, 196.694

GENE X4

Condition 1, Condition 2

55.3836, 170.255

60.5448, 179.128

53.5329, 204.758

36.3966, 196.669

17.46, 165.536

24.5512, 191.287

45.2252, 175.441

29.4843, 218.565

51.0474, 186.971

32.5371, 178.551

GENE X5

Condition 1, Condition 2

23.5163, 74.9335

19.8429, 101.294

9.07588,114.557  
21.1788,107.377  
20.1627,106.41  
29.4846,119.774  
24.6288,108.626  
11.6038,115.1  
27.3,114.576  
17.8545,111.278

BE19B025

GENE X1

Condition 1, Condition 2

22.5667,-18.8057

22.0027,-7.16139

17.5852,17.353

24.5011,22.6558

14.2613,-22.0869

21.8139,-10.4692

23.9791,2.82097

10.8876,-19.2889

29.1466,-2.95865

16.5872,29.986

GENE X2

Condition 1, Condition 2

79.3873,57.3668

83.2138,95.8876

78.1905,83.4238

94.6705,60.6116

91.7645,83.5728

82.2913,54.832

77.1534,68.5871

63.0434,73.9079

86.4672,60.9568

81.6208,69.4867

GENE X3

Condition 1, Condition 2

73.786,-8.01045

73.112,80.8556

76.8889,2.25525

74.5925,58.1575

78.6592,43.5192

73.2308,34.1672

70.3327,35.7826

68.8261,35.4361

72.6608,85.0626

75.0551,40.0288

GENE X4

Condition 1, Condition 2

83.5056,86.1474

90.4782,100.443

101.926,111.584

82.6829,118.725

85.686,105.742

92.1883,109.579

87.1877,105.734

89.9259,96.8664

89.4886,101.818

84.3566,93.4707

GENE X5

Condition 1, Condition 2

80.3201,137.29

67.0874,88.4092

68.1055,94.78  
79.08,81.9028  
80.5986,89.834  
83.8598,59.0999  
73.5907,89.6512  
81.3162,94.7891  
80.7952,134.067  
85.5104,90.4295

BE19B026

GENE X1

Condition 1, Condition 2

35.4624, 120.338

32.7611, 182.742

34.126, 156.917

34.5134, 155.088

36.1124, 143.554

34.6065, 128.412

37.1273, 189.597

33.5135, 159.312

37.5615, 190.096

34.6644, 182.812

GENE X2

Condition 1, Condition 2

75.7951, 179.977

92.6619, 201.358

94.026, 195.92

96.367, 216.47

88.0793, 189.598

97.1382, 208.807

82.519, 173.69

83.8415, 167.748

92.372, 179.414

94.079, 216.325

GENE X3

Condition 1, Condition 2

92.1714, 130.165

29.834, 127.258

32.5179, 124.024

42.7447, 135.455

47.8775, 121.369

56.6445, 126.374

73.4914, 130.294

65.5356, 133.392

53.8666, 131.449

60.8187, 132.417

GENE X4

Condition 1, Condition 2

52.8045, 138.009

27.2895, 81.2765

55.6897, 78.2551

39.3592, 79.6642

56.6596, 84.7032

54.539, 135.142

40.1868, 113.366

42.9393, 107.618

38.7203, 108.025

46.4159, 90.0022

GENE X5

Condition 1, Condition 2

27.3106, 124.385

30.2006, 168.478

33.7168,154.671  
43.4306,152.136  
45.1707,139.825  
41.0407,122.68  
34.3717,145.154  
32.2068,143.1  
26.7113,172.529  
34.4021,161.416

BE19B027  
GENE X1  
Condition 1, Condition 2  
86.2991, 172.428  
73.2047, 159.798  
86.934, 158.477  
89.1851, 173.638  
93.3879, 157.387  
88.4936, 165.436  
87.8674, 169.107  
73.0213, 159.884  
94.3312, 176.245  
97.5218, 153.354  
GENE X2  
Condition 1, Condition 2  
56.7805, 20.2529  
48.1868, 19.0479  
51.568, 25.6653  
46.3307, -6.28365  
43.5687, -0.425949  
48.3468, 22.1052  
55.1098, 41.5198  
52.6838, 22.867  
47.7975, 26.2521  
51.0498, 45.6612  
GENE X3  
Condition 1, Condition 2  
83.2996, 118.316  
77.3651, 59.0835  
73.1532, 78.1661  
75.9597, 104.787  
73.9878, 99.1379  
82.0709, 60.0732  
83.8905, 91.5124  
73.9582, 81.1882  
67.3963, 88.612  
77.6928, 81.5752  
GENE X4  
Condition 1, Condition 2  
38.6848, 49.1855  
6.53233, 44.1961  
15.4042, 44.1746  
21.3022, 19.0391  
19.3163, 44.36  
12.6059, 40.7781  
9.11352, 52.3937  
20.1456, 24.1076  
44.8305, 23.9719  
-11.7452, 25.1175  
GENE X5  
Condition 1, Condition 2  
19.7315, 104.639  
14.208, 92.4033

26.8838,107.339  
30.9876,78.3328  
26.7663,69.0327  
32.7608,86.987  
24.366,131.43  
23.1141,73.3034  
26.1901,71.3683  
22.4381,123.932

BE19B029  
GENE X1  
Condition 1, Condition 2  
66.2838, 16.8515  
75.023, 11.5224  
88.6289, 27.5283  
87.9202, 11.0044  
65.8839, 42.8611  
93.6402, 7.35879  
71.4349, 7.44765  
93.594, 28.5027  
71.383, -22.4018  
82.9291, 35.9398  
GENE X2  
Condition 1, Condition 2  
79.4178, 203.35  
70.5688, 194.828  
46.7398, 190.227  
86.617, 177.411  
84.3924, 176.597  
73.1179, 201.233  
75.8708, 188.521  
73.5234, 188.058  
60.4042, 190.941  
58.0969, 199.552  
GENE X3  
Condition 1, Condition 2  
1.19259, 2.31742  
23.3171, 5.39266  
-9.72663, 6.24002  
25.2899, 5.57433  
39.8565, 4.17547  
-17.1914, -5.53267  
15.2197, -5.13333  
-5.13339, 11.8746  
14.8972, -1.82954  
-5.84134, 19.1883  
GENE X4  
Condition 1, Condition 2  
103.714, 106.696  
98.277, 88.4692  
86.9693, 110.44  
95.6815, 96.9097  
108.09, 124.276  
84.9423, 112.097  
98.677, 120.224  
93.0063, 124.919  
93.4257, 128.116  
97.1718, 117.463  
GENE X5  
Condition 1, Condition 2  
46.616, 186.225  
44.359, 217.328

6.99265,192.444  
41.4342,174.804  
15.2599,176.124  
45.2062,205.369  
-0.437907,197.082  
28.0946,165.571  
2.18003,199.459  
37.3489,194.029

BE19B030  
GENE X1  
Condition 1, Condition 2  
53.5708, 20.1142  
35.925, 8.01237  
77.1295, 2.28399  
43.2401, 39.7491  
47.4056, 2.67738  
46.8009, 29.3692  
72.668, 22.0035  
51.2445, -1.60086  
56.576, 56.1407  
51.1386, -15.5976  
GENE X2  
Condition 1, Condition 2  
87.5423, 122.447  
85.8572, 104.316  
93.2242, 81.2097  
71.1969, 107.881  
83.7822, 120.775  
91.6619, 91.5672  
88.7321, 104.668  
97.4537, 114.663  
63.6654, 96.6469  
82.7657, 79.7117  
GENE X3  
Condition 1, Condition 2  
43.5313, 166.487  
24.5858, 178.134  
30.974, 175.057  
31.8048, 191.377  
45.6416, 164.537  
7.1324, 168.308  
22.3451, 171.141  
26.4768, 187.144  
18.8082, 204.33  
13.3109, 161.223  
GENE X4  
Condition 1, Condition 2  
18.0888, 112.076  
12.5202, 101.771  
-3.74252, 96.1837  
-4.11805, 102.316  
2.34721, 108.923  
22.1409, 101.553  
-2.37043, 115.091  
-1.49, 125.464  
22.8228, 96.3948  
6.96628, 93.808  
GENE X5  
Condition 1, Condition 2  
92.4155, 185.168  
109.317, 158.27

112.01,162.944  
94.0509,182.379  
76.9946,193.884  
89.7915,193.683  
118.937,189.358  
90.9418,181.19  
81.4109,178.514  
100.806,192.861

BE19B031  
GENE X1  
Condition 1, Condition 2  
10.0422, 129.664  
-2.85081, 122.045  
20.067, 94.2411  
1.93114, 123.789  
33.1272, 119.387  
-4.79332, 121.065  
5.34058, 140.944  
31.4653, 127.371  
7.69376, 115.038  
26.3335, 85.4748  
GENE X2  
Condition 1, Condition 2  
97.6866, 158.356  
98.7541, 164.848  
94.0263, 142.82  
100.965, 171.314  
73.909, 188.822  
115.43, 171.451  
122.873, 165.72  
78.6302, 152.766  
90.3668, 131.614  
78.2285, 165.918  
GENE X3  
Condition 1, Condition 2  
40.7933, 182.807  
50.3441, 180.594  
42.8312, 182.922  
39.6535, 198.263  
53.5019, 192.223  
57.2514, 177.579  
37.2765, 181.15  
38.0597, 169.439  
25.4842, 203.882  
53.1766, 185.44  
GENE X4  
Condition 1, Condition 2  
91.1374, 94.6068  
82.5967, 108.562  
86.3967, 90.1589  
88.4655, 110.255  
86.0426, 107.078  
86.9628, 133.105  
85.1946, 111.005  
80.6979, 124.204  
76.6696, 100.043  
84.2091, 120.155  
GENE X5  
Condition 1, Condition 2  
38.6669, 154.023  
29.2909, 133.328

34.9397,155.472  
31.0645,137.753  
33.0524,177.023  
26.1068,103.446  
37.6164,116.666  
36.1048,127.265  
39.725,157.317  
32.2773,162.283

BE19B032

GENE X1

Condition 1, Condition 2

3.86766, 23.8694

8.50799, 15.085

4.98913, 32.8758

5.5193, 28.7301

4.42017, 13.0219

6.812, 50.3949

5.19261, 3.09783

7.73729, 40.6078

3.5809, 24.7198

4.12645, 37.5162

GENE X2

Condition 1, Condition 2

3.56911, 194.801

1.71661, 143.497

1.83163, 182.036

5.04011, 186.817

10.4128, 163.355

3.72932, 129.744

1.78326, 146.26

9.68631, 169.029

-4.65845, 196.928

2.22368, 185.474

GENE X3

Condition 1, Condition 2

10.8361, 17.7334

-0.750655, 25.882

28.9168, 33.4959

6.75414, 14.801

1.82126, 29.8672

9.20985, 26.6663

1.3509, 31.2163

8.13232, 10.2266

16.7535, 2.52983

5.19152, 34.846

GENE X4

Condition 1, Condition 2

72.3227, 179.866

65.207, 165.123

79.8771, 165.776

75.5653, 162.708

72.7468, 161.146

89.6141, 176.883

76.2329, 157.117

73.9257, 159.559

68.0063, 162.666

83.9367, 164.575

GENE X5

Condition 1, Condition 2

-11.6043, 108.328

2.58252, 117.251

-14.3422,128.797  
-6.37409,114.983  
1.15623,124.837  
-11.6405,111.752  
-28.4943,97.5024  
0.56657,112.346  
-17.7654,123.84  
15.5937,121.384

BE19B035

GENE X1

Condition 1, Condition 2

45.7086, 146.224

55.4333, 142.412

42.206, 155.312

53.7876, 162.586

45.8035, 147.593

35.8678, 158.13

37.3442, 178.575

42.5777, 126.586

50.6053, 151.555

48.2998, 153.83

GENE X2

Condition 1, Condition 2

45.3603, 113.502

47.1813, 94.2209

25.2079, 73.0417

62.9938, 87.1699

37.9954, 107.474

47.3882, 90.2161

35.9249, 63.1616

36.8468, 114.252

36.2845, 80.824

46.6346, 82.3069

GENE X3

Condition 1, Condition 2

6.98396, 146.243

19.6977, 152.839

25.0154, 146.686

11.5275, 158.754

9.59608, 147.492

15.4353, 126.711

13.257, 158.745

23.0107, 139.506

-9.27272, 170.974

-4.43114, 153.539

GENE X4

Condition 1, Condition 2

69.7943, 59.5774

72.9168, 83.086

64.5903, 78.4958

57.3325, 67.5779

63.6964, 95.5227

68.1633, 107.504

60.0283, 65.5541

70.0146, 116.655

68.4804, 50.5304

71.1188, 118.526

GENE X5

Condition 1, Condition 2

71.7504, 3.42009

69.374, 11.8744

68.4056,33.6431  
69.3089,0.653229  
70.2524,19.1809  
65.1377,19.0337  
74.3991,21.9127  
67.0324,21.2435  
65.8979,18.9505  
86.409,31.1158

BS19B002

GENE X1

Condition 1, Condition 2

9.76245, 159.313

43.8125, 169.929

36.5193, 185.678

9.77241, 167.951

33.8753, 162.405

12.5808, 200.009

40.3089, 167.958

6.03331, 212.87

0.74137, 109.862

-15.4372, 180.14

GENE X2

Condition 1, Condition 2

18.7752, 112.194

38.9998, 95.649

25.6205, 84.1621

22.8291, 109.532

39.6007, 85.7368

36.8766, 117.275

29.6875, 87.9908

30.1899, 77.5963

37.6258, 74.9404

44.3244, 69.0023

GENE X3

Condition 1, Condition 2

65.7899, 69.0809

60.1518, 34.2586

32.738, 73.6337

61.907, 41.9592

56.7033, 6.35424

54.06, 49.519

52.3522, 52.3735

43.2054, 57.6487

60.5171, 44.6506

70.5569, 41.2765

GENE X4

Condition 1, Condition 2

69.5977, 73.6421

76.2198, 84.3085

78.2897, 94.6108

62.7546, 101.087

54.6524, 95.8693

69.4959, 110.654

55.8893, 133.561

78.5662, 109.627

58.2274, 96.3502

30.017, 103.631

GENE X5

Condition 1, Condition 2

63.5272, 183.444

48.1352, 159.047

53.3466,191.265  
48.3377,166.893  
36.8263,178.188  
45.2847,175.802  
36.4407,162.361  
48.3729,195.264  
47.6042,170.984  
51.6614,193.308

BS19B003

GENE X1

Condition 1, Condition 2

58.3045, 80.8283

73.0048, 100.344

57.5981, 86.0391

58.7738, 115.431

58.8157, 73.1528

48.5512, 89.9087

53.4895, 92.4112

59.8999, 89.7894

66.7611, 106.384

58.4316, 105.096

GENE X2

Condition 1, Condition 2

85.84, 114.413

84.8389, 112.143

78.2248, 114.125

86.455, 125.806

83.3727, 116.742

86.0327, 114.189

85.7914, 119.215

87.1461, 101.97

84.1654, 103.944

84.0067, 118.157

GENE X3

Condition 1, Condition 2

76.8654, 107.444

45.2672, 92.8708

66.7402, 96.8346

83.058, 89.122

76.3036, 68.6125

75.218, 43.8844

87.4761, 95.6537

75.1725, 78.4227

67.681, 95.7542

88.7023, 73.1582

GENE X4

Condition 1, Condition 2

46.3133, 164.339

38.9896, 148.77

68.3214, 174.588

39.1326, 160.604

34.3378, 180.407

36.5262, 136.206

39.1616, 164.338

36.3308, 163.633

46.6668, 137.029

45.8745, 171.548

GENE X5

Condition 1, Condition 2

35.9576, 102.471

44.3121, 74.4925

54.2431,104.318  
26.3351,73.0312  
2.9893,73.406  
79.4795,78.0755  
42.1299,66.507  
16.8655,95.6471  
44.041,89.0671  
47.1114,99.5606

BS19B004

GENE X1

Condition 1, Condition 2

75.7099, 189.856

59.1417, 241.069

66.6959, 179.234

52.8034, 168.936

35.3922, 206.919

80.0915, 184.782

53.9465, 186.791

92.6955, 224.37

62.5079, 210.688

60.8013, 202.717

GENE X2

Condition 1, Condition 2

28.1766, 97.1476

36.5657, 125.836

48.0641, 106.025

40.5959, 123.687

39.6352, 104.234

42.6244, 100.523

20.4442, 128.578

44.9171, 115.277

29.259, 102.138

37.9689, 105.206

GENE X3

Condition 1, Condition 2

96.8414, 96.3752

97.7818, 77.0032

98.6257, 123.129

92.7504, 100.733

89.9088, 84.063

94.8196, 123.587

97.3591, 81.3867

94.8071, 109.896

89.6897, 93.8573

93.5285, 106.783

GENE X4

Condition 1, Condition 2

7.20721, 41.9598

41.2252, 53.2292

27.8587, 66.1794

25.8925, 75.8965

14.2172, 77.1797

39.6602, 43.9323

23.6932, 59.4096

5.7492, 61.6822

6.10286, 14.1664

6.59618, 39.034

GENE X5

Condition 1, Condition 2

68.1718, 71.2376

57.6598, 76.0059

62.5712,79.4923  
29.5525,89.2431  
15.7998,60.4604  
53.9641,88.2914  
67.7667,69.0521  
15.3352,88.4542  
53.1695,79.5528  
73.3474,102.741

BS19B006

GENE X1

Condition 1, Condition 2

-4.11164, 29.9614

9.82546, 23.7956

22.1709, 71.3569

1.73937, 40.5504

8.70376, 32.3982

3.4901, 35.2163

10.6279, 65.0392

2.06376, 39.7064

2.63895, 54.4379

2.59224, 59.6448

GENE X2

Condition 1, Condition 2

6.33941, 16.3868

-14.374, 56.0024

43.226, 58.9699

27.6915, 70.4865

11.3231, 36.5761

51.4171, 50.8774

36.9275, 59.5885

39.0923, 34.2824

45.5432, 29.8066

57.7291, 55.2115

GENE X3

Condition 1, Condition 2

109.005, 66.3555

97.6086, 64.9156

74.2049, 96.5521

104.776, 81.6361

85.4194, 138.552

106.357, 113.617

101.419, 96.6693

96.987, 70.2765

103.87, 130.327

98.0036, 72.545

GENE X4

Condition 1, Condition 2

13.7285, 29.1822

26.4107, 44.8595

14.4881, 61.7744

32.2297, 40.0956

44.3302, 44.9833

20.2312, 8.67859

7.67208, 39.1609

-8.44278, 15.0202

33.0702, 39.5158

35.9339, 40.9946

GENE X5

Condition 1, Condition 2

24.6511, 187.248

34.7203, 157.512

32.9521,154.325  
22.9592,176.887  
24.9767,176.237  
40.4319,178.478  
9.9013,174.499  
27.6359,177.453  
32.4774,157.868  
37.8486,182.817

BS19B008

GENE X1

Condition 1, Condition 2

2.44308, 210.022

5.58748, 172.447

3.15809, 178.616

12.8632, 180.427

15.5239, 210.492

8.61205, 165.288

10.9004, 215.325

16.2518, 166.607

4.86831, 182.736

2.67847, 206.86

GENE X2

Condition 1, Condition 2

34.3797, 188.857

34.155, 182.667

62.1916, 196.169

62.6666, 195.092

61.8051, 151.197

58.6749, 183.49

72.0325, 178.257

27.4124, 173.163

64.1236, 196.141

59.17, 170.72

GENE X3

Condition 1, Condition 2

25.9036, 83.3065

7.95197, 65.5003

16.4251, 57.8939

28.3523, 70.6146

21.6153, 53.5987

8.00222, 39.7252

-12.263, 74.8501

21.8367, 60.2248

24.5844, 81.3059

13.9037, 56.4997

GENE X4

Condition 1, Condition 2

51.5587, 31.3689

54.6712, 33.5517

53.0835, 32.0383

34.9032, 21.8715

43.2188, 34.7834

38.9043, 28.6971

51.1486, 25.3917

52.2881, 33.3488

34.1227, 16.1699

39.2119, 27.4538

GENE X5

Condition 1, Condition 2

71.9692, 71.7786

79.3449, 61.5555

86.1505,49.2923  
73.8426,57.6409  
58.2342,59.4776  
88.2944,54.6869  
79.92,56.049  
73.0367,62.3475  
76.9205,55.0144  
85.5215,43.7529

BS19B009

GENE X1

Condition 1, Condition 2

57.7121, 155.753

66.8414, 143.518

46.9843, 152.182

47.2959, 151.488

56.3267, 158.885

56.8713, 159.382

60.4259, 150.674

41.0862, 140.25

60.5646, 145.684

62.99, 180.581

GENE X2

Condition 1, Condition 2

104.107, 141.857

83.04, 114.897

66.3263, 139.641

78.7204, 100.763

105.687, 112.858

93.8815, 129.649

71.7931, 115.395

76.279, 112.211

75.9665, 133.607

107.17, 141.97

GENE X3

Condition 1, Condition 2

78.3477, 47.033

72.9232, 37.061

87.91, 13.2621

74.2448, 21.3785

63.0756, 40.2143

91.8238, 43.4263

90.1989, 25.1125

88.5283, 43.2548

69.7759, 6.1348

74.399, 35.3632

GENE X4

Condition 1, Condition 2

98.7916, 89.3329

95.0318, 67.2023

87.9082, 111.601

75.2555, 60.8466

105.668, 84.2044

86.0287, 93.6857

73.282, 88.6588

93.0488, 93.3656

96.0419, 54.887

87.6229, 90.7298

GENE X5

Condition 1, Condition 2

84.1837, 138.157

59.1758, 145.151

74.2335,130.372  
82.9874,121.348  
79.0209,104.312  
73.5315,100.015  
78.3389,116.693  
55.7399,135.779  
70.2479,119.866  
76.1929,138.114

BS19B011  
GENE X1  
Condition 1, Condition 2  
53.9911, 23.0385  
85.0596, 14.8814  
92.3366, 22.4942  
90.0033, 21.3783  
80.4059, 22.9664  
72.4824, 29.8349  
98.0547, 42.3057  
83.1075, 29.1607  
73.3583, 11.7628  
84.1335, 35.8447  
GENE X2  
Condition 1, Condition 2  
30.4844, 141.684  
42.1418, 131.315  
50.4106, 147.172  
28.9726, 120.089  
58.6567, 134.41  
21.2505, 114.726  
56.3668, 110.805  
41.6122, 125.438  
47.3284, 123.849  
36.0797, 103.345  
GENE X3  
Condition 1, Condition 2  
-5.0501, 136.276  
17.2324, 116.686  
20.4089, 97.4026  
13.1359, 124.936  
31.7056, 118.861  
31.8045, 92.0322  
18.9194, 124.914  
6.5554, 125.794  
23.8108, 118.198  
36.0765, 88.9032  
GENE X4  
Condition 1, Condition 2  
29.9585, 78.9754  
23.5142, 79.8962  
22.9333, 84.8499  
21.753, 88.4368  
-8.51828, 94.6157  
15.7849, 88.0433  
23.5422, 72.9219  
22.8424, 71.9181  
27.6438, 103.241  
19.6584, 78.0645  
GENE X5  
Condition 1, Condition 2  
64.8779, 65.2818  
51.1623, 68.347

26.1362,59.8785  
26.1424,38.8989  
29.8859,49.9157  
47.195,39.2003  
36.8934,46.0526  
13.8506,55.2791  
36.3326,50.855  
29.9439,39.5695

BS19B012  
GENE X1  
Condition 1, Condition 2  
37.3729, 43.6255  
60.7324, 16.2723  
73.7165, 6.35576  
43.9229, 31.9371  
42.2723, 9.91109  
80.468, 18.3423  
27.8983, 1.68391  
37.6916, 3.63854  
42.4937, 8.2508  
50.1204, 7.02439  
GENE X2  
Condition 1, Condition 2  
25.4625, 187.895  
23.0276, 195.637  
25.0539, 191.681  
59.7477, 173.969  
27.1818, 150.462  
38.9197, 161.346  
38.8253, 170.492  
41.6333, 194.307  
24.1089, 151.999  
42.8518, 197.197  
GENE X3  
Condition 1, Condition 2  
54.3811, 109.326  
46.5027, 135.362  
36.5116, 123.31  
29.7264, 119.055  
42.4761, 115.593  
69.1351, 124.613  
36.9436, 110.242  
45.0989, 93.6595  
28.4349, 135.71  
26.1899, 124.96  
GENE X4  
Condition 1, Condition 2  
26.4007, 64.5897  
26.9631, 55.8188  
21.3926, 68.9405  
-14.6291, 62.5616  
26.3277, 44.3745  
41.6534, 75.747  
-9.6723, 54.1299  
-9.98619, 47.6491  
38.3934, 52.801  
2.22542, 49.3183  
GENE X5  
Condition 1, Condition 2  
41.0505, 112.147  
38.3593, 137.471

53.9895,127.475  
52.7139,114.684  
21.6894,133.593  
55.298,118.71  
53.661,124.623  
55.2077,150.091  
28.8338,122.495  
29.5332,135.475

BS19B013  
GENE X1  
Condition 1, Condition 2  
64.9524, 76.2689  
72.6663, 62.2501  
71.9011, 91.6219  
66.1822, 86.7413  
48.365, 91.3209  
65.6506, 58.4273  
65.79, 89.3762  
68.7543, 54.0946  
63.7484, 51.2157  
50.8457, 54.6819  
GENE X2  
Condition 1, Condition 2  
92.1976, 116.667  
93.1588, 102.218  
93.7842, 63.5033  
87.6795, 98.2107  
88.9049, 113.605  
86.4861, 83.492  
91.6714, 78.7173  
91.5418, 84.9738  
81.9255, 87.0145  
91.0124, 140.286  
GENE X3  
Condition 1, Condition 2  
95.3193, 102.609  
75.5336, 134.794  
80.6952, 112.145  
103.906, 109.895  
93.3197, 98.9807  
80.9611, 108.584  
91.1822, 102.073  
93.2731, 115.271  
80.1287, 116.186  
68.0635, 113.677  
GENE X4  
Condition 1, Condition 2  
22.2836, 35.1411  
40.4426, 97.8079  
24.1838, 26.0226  
48.5485, 107.999  
45.6307, 31.3482  
45.0051, 48.0964  
41.6857, 69.1484  
40.02, 40.59  
35.817, 55.565  
53.0356, 72.3858  
GENE X5  
Condition 1, Condition 2  
17.21, 38.6304  
2.29629, 39.995

25.0535,27.1655  
15.5242,32.6027  
26.8533,-0.134743  
9.97588,21.2947  
9.22952,38.1976  
45.1996,35.9473  
11.0374,26.9728  
-1.52051,41.0724

BS19B014

GENE X1

Condition 1, Condition 2

25.4492, 99.9115

5.6736, 112.415

11.0477, 97.1565

-5.38464, 90.2694

11.5449, 93.5966

-11.5214, 89.4965

14.026, 125.333

23.3166, 94.4542

1.68442, 83.1358

-3.31857, 94.5502

GENE X2

Condition 1, Condition 2

93.8357, 181.45

94.7337, 185.079

97.9435, 244.055

87.6438, 173.233

95.4599, 215.441

99.2371, 211.369

104.032, 161.529

93.3316, 150.629

103.327, 198.281

97.4782, 227.032

GENE X3

Condition 1, Condition 2

32.6815, 141.431

18.2797, 186.358

40.7823, 177.314

22.6934, 197.994

29.294, 168.26

23.6477, 157.933

18.8461, 187.942

16.157, 168.12

34.7784, 130.274

36.9944, 199.996

GENE X4

Condition 1, Condition 2

86.7222, 67.4633

74.9666, 37.9102

79.2434, 45.1469

77.6749, 48.1626

95.7737, 26.5183

74.1366, 39.3725

76.8775, 35.3645

78.6811, 46.6252

78.4538, 67.0136

94.8135, 19.48

GENE X5

Condition 1, Condition 2

73.2752, 80.0896

62.2402, 95.7709

62.1789,83.1631  
60.1497,67.0116  
62.1739,65.9859  
64.3094,112.256  
66.7845,90.7014  
57.29,95.8345  
62.9137,63.9174  
63.9144,92.7061

BS19B017

GENE X1

Condition 1, Condition 2

47.6502, 101.896

49.5392, 92.7403

54.3806, 92.1037

48.8697, 98.7601

50.8919, 111.932

54.7813, 92.0131

52.1391, 64.409

48.7012, 73.4947

43.1748, 111.526

46.3731, 83.149

GENE X2

Condition 1, Condition 2

80.5238, 124.435

89.6469, 173.924

74.1225, 112.488

88.5376, 140.571

93.5771, 108.758

69.9755, 120.364

72.0848, 107.989

111.045, 115.092

98.8229, 152.713

78.7408, 103.258

GENE X3

Condition 1, Condition 2

52.2638, 164.138

93.412, 195.734

78.7663, 171.41

75.8236, 176.35

68.1176, 171.915

61.7176, 158.35

48.2231, 197.073

42.6666, 206.817

90.598, 174.381

59.5534, 187.876

GENE X4

Condition 1, Condition 2

49.9452, 62.8194

68.2393, 50.726

64.9465, 23.3908

86.561, 29.3143

66.8077, 7.0495

71.265, 28.1773

84.2129, -5.05368

70.6087, 40.2045

79.9207, 24.8362

68.0175, 44.3248

GENE X5

Condition 1, Condition 2

97.1664, -34.4634

98.9795, 43.3366

94.3956,-10.2618  
91.3915,1.75136  
95.493,-29.1038  
95.7713,33.8678  
84.0667,-9.3353  
98.535,10.055  
90.3454,2.37365  
106.337,9.83249

BS19B018

GENE X1

Condition 1, Condition 2

17.4267, 174.799

9.91061, 151.45

30.5424, 186.051

24.0471, 178.22

33.8641, 180.844

18.2052, 178.566

7.36681, 152.316

21.4853, 194.357

8.08666, 199.283

5.47386, 180.694

GENE X2

Condition 1, Condition 2

39.2987, 82.494

15.6471, 75.6168

18.8271, 102.481

16.6584, 68.2029

16.216, 79.9094

-4.45678, 70.133

29.5394, 71.7982

10.8784, 97.428

5.92861, 81.8279

17.0285, 82.0915

GENE X3

Condition 1, Condition 2

110.088, 13.5307

83.8178, -17.4687

74.0396, 16.6064

72.8649, 4.69682

87.2473, 41.0961

108.123, 3.40598

102.252, 4.75719

76.7678, -19.3044

105.93, 21.6792

97.9878, 28.4621

GENE X4

Condition 1, Condition 2

80.7726, 12.3201

91.3402, 52.4945

43.6913, 46.9121

81.3215, 49.4247

92.5329, 48.0955

86.1366, 79.3683

74.0807, 43.3066

92.5773, 62.0203

83.7624, 59.18

57.6399, 26.6902

GENE X5

Condition 1, Condition 2

82.7287, 88.6655

74.3602, 99.3361

53.4376,132.09  
56.6839,90.2047  
66.6126,121.557  
77.9377,105.011  
69.3668,117.189  
61.8354,119.212  
78.952,107.341  
77.7681,115.296

BS19B019

GENE X1

Condition 1, Condition 2

65.69, 161.798

62.6561, 187.048

63.851, 155.921

61.3277, 182.885

60.8527, 146.661

70.2287, 180.989

56.0472, 167.462

51.8594, 186.922

54.9457, 219.442

51.6014, 183.906

GENE X2

Condition 1, Condition 2

73.78, 222.751

80.5143, 180.854

87.6607, 204.063

88.596, 186.944

94.8513, 228.944

89.2509, 176.417

76.1698, 176.589

89.5544, 173.003

69.559, 217.259

84.1435, 214.45

GENE X3

Condition 1, Condition 2

26.6947, 178.904

17.854, 135.593

16.6893, 172.202

20.8772, 211.189

15.4334, 186.849

25.9034, 162.913

24.4164, 129.955

11.1943, 171.923

18.9087, 139.142

23.2136, 169.464

GENE X4

Condition 1, Condition 2

62.8565, 107.942

62.1642, 105.197

57.3068, 132.542

56.0147, 109.387

63.3666, 100.487

65.3037, 102.292

65.0407, 128.556

63.897, 108.202

59.6779, 125.23

69.9312, 81.3581

GENE X5

Condition 1, Condition 2

40.0931, 21.6022

56.3952, 39.3809

60.694,19.4624  
49.8217,40.3485  
72.3759,18.2203  
58.7649,0.367783  
60.9592,10.2489  
55.8251,43.788  
79.4642,16.6633  
34.4737,42.15

BS19B020  
GENE X1  
Condition 1, Condition 2  
72.6728, 162.686  
118.487, 121.438  
99.7322, 135.848  
93.6032, 134.238  
92.9612, 119.891  
97.1847, 164.352  
87.1486, 174.861  
100.277, 169.531  
114.559, 161.473  
96.8583, 121.321  
GENE X2  
Condition 1, Condition 2  
36.3313, 40.8247  
48.4979, 17.1919  
33.0279, 33.7278  
34.1644, -0.680089  
49.6961, 19.3518  
53.4414, 34.0739  
27.9945, 12.4553  
44.9372, 41.5106  
64.6705, 20.8606  
28.9625, 22.5605  
GENE X3  
Condition 1, Condition 2  
71.8562, 205.987  
66.4419, 201.783  
72.8182, 174.62  
68.9997, 182.454  
69.0599, 136.472  
67.3016, 202.208  
66.7129, 192.871  
68.3258, 196.603  
62.6892, 172.135  
71.2969, 194.799  
GENE X4  
Condition 1, Condition 2  
-5.38644, 187.955  
17.7529, 180.422  
17.8924, 166.111  
39.2307, 190.959  
-5.07053, 171.842  
-2.28699, 181.885  
6.82092, 178.086  
-3.63803, 207.656  
23.214, 181.258  
40.5417, 187.185  
GENE X5  
Condition 1, Condition 2  
72.4587, 99.7873  
110.801, 95.3266

69.6687,88.9544  
85.2129,92.3279  
101.242,78.2402  
113.834,94.8834  
105.973,73.7057  
101.08,72.1204  
71.8262,90.1131  
94.6701,99.0898

BS19B021

GENE X1

Condition 1, Condition 2

11.5901, 85.4895

16.9484, 91.2591

8.58382, 85.4433

10.9134, 82.8563

3.28116, 86.4386

-10.9736, 103.592

10.0448, 82.2906

-12.4765, 82.115

17.9591, 95.4066

0.681708, 99.7385

GENE X2

Condition 1, Condition 2

60.5158, 82.7439

61.2085, 62.3121

60.5086, 82.356

68.3252, 57.2136

68.6838, 80.6171

73.0627, 69.1595

62.5674, 42.7066

62.7385, 92.5999

59.0758, 121.154

64.8238, 92.9034

GENE X3

Condition 1, Condition 2

89.5202, 31.9019

82.7883, 37.2484

86.4294, 46.0152

85.5098, 17.3582

86.0618, 38.8793

87.8725, 16.4997

86.1473, 22.3461

86.1365, 6.56917

84.234, 41.3087

90.278, 32.5855

GENE X4

Condition 1, Condition 2

41.3883, -2.56216

5.64802, 17.9461

19.1261, 17.0467

25.1893, 11.7806

23.0137, 69.1215

25.9437, 29.1918

43.9148, 11.3353

31.2645, 13.6188

27.1355, -5.1341

31.0346, 5.57325

GENE X5

Condition 1, Condition 2

76.6419, -13.9402

55.0885, -0.922095

43.6297,54.028  
65.6576,1.67074  
61.2026,-6.73268  
65.8859,10.4779  
32.8081,-1.01229  
38.3744,-11.0952  
58.291,42.2614  
68.632,17.4327

BS19B022

GENE X1

Condition 1, Condition 2

39.4236, 22.1386

33.2066, -1.64433

40.0265, 29.9657

40.8014, 49.9779

40.0928, 26.0453

33.1839, 58.9353

26.7778, 27.7702

28.82, 44.7681

45.1446, 30.0477

29.1114, 34.9004

GENE X2

Condition 1, Condition 2

82.2448, 43.5365

69.5422, 25.2605

74.4928, 31.3953

86.1679, -4.90172

100.527, 37.7395

92.5756, 46.1314

98.0918, 4.02155

79.4448, 21.0541

92.0276, 64.0562

82.7119, 46.5467

GENE X3

Condition 1, Condition 2

-0.325304, 173.346

17.1893, 184.675

24.4837, 184.679

17.8062, 171.482

10.844, 190.094

0.801299, 181.173

15.5029, 183.288

13.4413, 193.99

-3.52881, 195.698

1.8048, 178.706

GENE X4

Condition 1, Condition 2

22.0738, 149.983

46.5844, 150.685

43.102, 69.1312

33.7579, 79.0761

20.9301, 89.1254

33.0616, 139.64

32.6998, 91.4959

29.0305, 110.049

36.383, 94.4102

28.5225, 76.2604

GENE X5

Condition 1, Condition 2

81.2673, 163.547

77.6299, 133.711

77.7019,151.737  
81.4142,122.989  
83.1381,164.491  
79.4669,141.412  
71.5765,147.067  
74.6392,131.173  
86.9871,134.878  
78.3868,147.394

BS19B023  
GENE X1  
Condition 1, Condition 2  
75.0104, 81.4998  
79.9645, 120.319  
82.6203, 66.8549  
85.1781, 70.6858  
65.4585, 99.8944  
79.793, 117.615  
87.0692, 98.59  
66.8326, 122.935  
78.5359, 81.7901  
85.4701, 94.2769  
GENE X2  
Condition 1, Condition 2  
27.3323, 54.8328  
41.9277, 30.7774  
34.7236, 85.1037  
31.4795, 102.657  
22.7116, 48.3543  
29.9989, 79.661  
34.352, 36.1341  
15.7743, 108.81  
37.5637, 94.3824  
36.6957, 57.7108  
GENE X3  
Condition 1, Condition 2  
100.622, 182.583  
103.827, 181.801  
77.0217, 196.618  
72.8267, 220.734  
68.1327, 202.75  
73.1149, 211.668  
96.9237, 207.772  
82.6146, 196.474  
81.5079, 196.291  
86.6196, 197.043  
GENE X4  
Condition 1, Condition 2  
78.0083, 87.4014  
108.31, 44.7919  
99.8786, 95.8127  
101.752, 72.1206  
107.769, 45.2895  
83.0053, 60.6111  
87.9162, 47.2571  
94.9087, 66.7755  
80.2572, 78.4899  
71.9065, 89.1291  
GENE X5  
Condition 1, Condition 2  
70.7584, 38.5818  
42.9331, 44.6106

57.2293,25.2435  
56.7493,8.70465  
49.5344,56.6106  
51.2414,53.4079  
44.4222,26.4616  
66.6458,57.9438  
56.0862,80.4067  
58.9946,74.5544

BS19B025  
GENE X1  
Condition 1, Condition 2  
90.3586, 117.209  
78.9271, 140.144  
96.2434, 119.176  
103.866, 115.766  
69.7989, 105.854  
104.134, 157.005  
85.1713, 120.2  
68.9271, 113.082  
79.444, 128.037  
79.1672, 99.5835  
GENE X2  
Condition 1, Condition 2  
92.2983, 158.058  
94.4664, 155.951  
115.46, 138.73  
80.9124, 106.194  
113.479, 131.421  
74.0995, 142.809  
70.6899, 168.003  
84.4856, 158.76  
75.2257, 129.491  
68.8748, 203.875  
GENE X3  
Condition 1, Condition 2  
31.693, 8.78348  
12.2082, 55.3842  
20.1396, 41.6079  
64.9981, 57.8382  
44.1442, 18.2088  
34.3571, 35.006  
54.1252, 38.6321  
17.4837, 59.4094  
34.0346, 16.9907  
49.5893, 49.8841  
GENE X4  
Condition 1, Condition 2  
67.0091, 181.832  
60.8397, 176.365  
69.3213, 147.558  
54.4901, 151.092  
41.1814, 179.086  
68.3084, 171.211  
62.9613, 142.053  
58.5751, 118.73  
70.7848, 147.213  
67.9173, 179.17  
GENE X5  
Condition 1, Condition 2  
26.702, 6.44399  
26.3755, 41.0146

12.3571,27.5821  
23.501,39.6266  
48.3055,12.1289  
12.2968,2.80202  
21.2888,-4.80859  
31.1169,22.1324  
49.4264,43.121  
54.4861,22.1937

BS19B026

GENE X1

Condition 1, Condition 2

37.074, 99.7551

77.8344, 71.0252

54.0887, 84.4414

84.3124, 86.729

81.1168, 87.751

69.5119, 81.6341

86.5634, 63.4654

94.212, 87.0485

57.0335, 75.7863

80.6861, 101.669

GENE X2

Condition 1, Condition 2

74.8727, 115.057

81.4691, 67.9899

81.6696, 94.3188

81.8362, 99.124

79.4983, 106.201

76.413, 66.7545

78.8854, 63.1155

81.2085, 125.406

79.3879, 83.5129

79.8961, 72.419

GENE X3

Condition 1, Condition 2

50.1273, 205.327

52.4598, 211.543

45.4577, 211.684

51.9087, 176.282

46.7959, 195.544

52.9603, 183.848

41.3367, 190.242

45.7344, 210.04

43.3736, 221.21

44.5208, 176.255

GENE X4

Condition 1, Condition 2

95.1124, 116.866

75.0737, 102.392

93.13, 54.46

88.5074, 123.451

83.7449, 103.302

99.614, 109.647

100.157, 67.1102

83.3738, 88.0297

82.8235, 102.209

75.2994, 116.136

GENE X5

Condition 1, Condition 2

76.775, 107.041

83.0385, 83.4395

107.476,94.3197  
89.1944,123.587  
55.3503,52.7794  
89.6824,73.757  
91.1819,144.671  
86.6179,124.057  
64.9826,98.7629  
78.9112,104.121

BS19B027

GENE X1

Condition 1, Condition 2

49.5345, 208.554

43.944, 151.839

30.0224, 194.762

40.6885, 152.74

44.9474, 172.823

61.8825, 170.647

49.5734, 154.776

58.7031, 144.008

42.9783, 192.078

56.6879, 201.852

GENE X2

Condition 1, Condition 2

86.0587, 63.7362

61.2042, 56.814

72.6168, 82.2027

69.4501, 70.5078

70.6502, 62.2344

84.7117, 29.5286

75.035, 55.2515

75.7558, 75.8229

66.4021, 81.9176

79.6194, 46.5343

GENE X3

Condition 1, Condition 2

-4.76526, 10.4242

-8.39865, 28.15

-7.43812, 16.7774

11.3793, 21.5566

12.2957, 18.2672

17.8696, 38.2002

19.2609, 18.3634

-6.33321, 14.3388

8.06619, 38.3509

-5.83595, 32.9172

GENE X4

Condition 1, Condition 2

60.9438, 20.2406

64.6902, 22.0531

79.8197, 38.5202

70.4874, -1.59036

68.682, -5.18679

58.321, 28.9852

55.4131, -4.36547

72.7669, -0.0401874

59.6793, -35.3448

59.9865, 49.687

GENE X5

Condition 1, Condition 2

66.591, 103.895

62.5074, 114.823

65.7093,81.6078  
62.7038,109.939  
64.6183,104.573  
78.3551,107.963  
63.5595,109.514  
79.0211,80.5991  
67.1672,108.297  
76.4714,106.228

BS19B028

GENE X1

Condition 1, Condition 2

32.5491, 86.0798

28.5553, 95.2361

32.1497, 105.714

35.9887, 96.3445

31.3831, 97.1232

26.8727, 102.352

28.0733, 115.502

30.804, 82.5495

22.4665, 95.2879

28.8485, 95.215

GENE X2

Condition 1, Condition 2

95.4261, 19.7445

68.6621, 9.89587

95.7025, -18.5224

86.1839, 12.7807

83.3169, 9.48501

96.3647, 11.8756

85.9684, -2.80055

107.636, 9.25761

84.6574, -5.15769

88.9954, 19.8934

GENE X3

Condition 1, Condition 2

78.6176, 153.737

85.3452, 144.943

55.1526, 178.604

46.9881, 182.095

65.3974, 150.222

68.7206, 176.748

79.0682, 179.799

74.8452, 151.073

60.4108, 164.178

93.9748, 147.471

GENE X4

Condition 1, Condition 2

37.55, 2.08165

67.034, 26.3888

53.847, 6.40276

64.5914, 7.57146

55.8348, 24.7625

35.0039, 20.6569

68.4736, -2.59237

51.6021, 13.0098

46.1306, 30.1275

43.3855, 23.2442

GENE X5

Condition 1, Condition 2

11.8473, 155.375

14.4201, 182.22

29.9203,201.099  
19.25,150.611  
22.7445,174.193  
49.8997,166.405  
14.3012,192.274  
-0.0743732,230.834  
12.8572,166.053  
14.3528,169.879

BS19B029

GENE X1

Condition 1, Condition 2

86.5216, 195.539

65.8723, 200.201

53.6921, 174.016

62.9553, 210.459

72.1399, 198.316

79.4008, 182.04

43.3925, 198.468

55.1182, 218.415

53.4096, 203.959

76.9983, 213.801

GENE X2

Condition 1, Condition 2

45.2027, 35.45

33.8911, 21.5519

47.7211, 23.8244

61.0487, 11.7615

38.2899, 38.3706

33.2475, 26.8552

30.4521, 21.8959

49.6254, 12.971

47.9611, 28.998

44.8339, 34.0098

GENE X3

Condition 1, Condition 2

97.4917, 96.7272

98.0935, 77.9064

81.6857, 81.9399

90.4051, 89.5323

117.219, 87.6098

100.827, 80.6135

87.0684, 88.6033

115.658, 85.1086

68.3909, 73.9506

118.272, 86.9982

GENE X4

Condition 1, Condition 2

39.9956, 112.888

27.2527, 101.683

25.4988, 126.171

29.8305, 130.7

18.7207, 111.956

29.6073, 126.695

44.7496, 93.6075

14.2135, 120.588

58.9757, 120.311

34.3068, 111.083

GENE X5

Condition 1, Condition 2

91.3388, 52.1714

97.6884, 50.3313

104.831,61.5868  
102.431,67.3431  
86.7218,55.7496  
92.5893,42.4197  
88.6044,55.2971  
98.6976,55.0621  
98.1528,54.6402  
100.124,58.5305

BS19B030

GENE X1

Condition 1, Condition 2

1.56714, 140.271

-12.1006, 85.1145

31.4892, 112.099

8.59541, 96.1961

-14.7008, 131.911

0.84154, 121.631

16.7522, 119.248

-10.8228, 114.558

-4.18217, 123.561

-4.49144, 117.645

GENE X2

Condition 1, Condition 2

83.7335, 48.1815

83.3592, 39.5161

99.1977, 53.8764

80.2072, 59.8477

77.5017, 35.5642

88.5649, 39.8893

70.2115, 45.0884

92.9387, 44.983

86.6295, 17.6271

80.3794, 15.4266

GENE X3

Condition 1, Condition 2

68.6444, 52.2172

63.8133, 83.0316

47.2855, 66.4888

60.2215, 64.8437

43.9293, 96.4948

51.7095, 119.681

39.3074, 88.4929

43.9642, 93.8768

28.005, 103.501

20.6387, 53.2451

GENE X4

Condition 1, Condition 2

96.5366, 42.8544

88.3465, 48.6809

80.868, 63.1195

69.0935, 60.1979

68.8215, 62.3758

79.9815, 75.3459

87.9016, 64.1209

80.3764, 75.7202

74.5812, 76.8378

80.5133, 46.6967

GENE X5

Condition 1, Condition 2

14.7508, 4.73196

31.6099, 38.1945

21.2572,32.3115  
3.84531,57.9715  
4.68183,14.8073  
11.1424,42.6695  
15.8428,37.2604  
10.5589,60.6438  
19.1654,44.7232  
29.1366,26.5311

BS19B031  
GENE X1  
Condition 1, Condition 2  
33.4397, 176.965  
39.9301, 196.485  
39.7164, 188.766  
36.7198, 175.998  
12.2944, 201.34  
23.1404, 201.318  
30.4893, 187.499  
33.6213, 194.308  
41.3436, 164.724  
40.1955, 175.592  
GENE X2  
Condition 1, Condition 2  
-1.86861, 79.294  
10.8061, 73.0805  
7.62583, 92.5001  
7.77348, 65.6702  
-3.29805, 98.4617  
-4.20144, 78.7444  
29.5296, 62.0184  
9.16438, 50.9623  
8.69671, 90.7052  
26.1183, 107.875  
GENE X3  
Condition 1, Condition 2  
26.0586, 20.3238  
29.2216, 34.1708  
29.6274, -22.5754  
38.4581, 41.1056  
38.4105, 51.6561  
28.8985, -2.73705  
22.3318, 42.3156  
34.764, 25.166  
18.9441, 11.3145  
33.5013, 18.9836  
GENE X4  
Condition 1, Condition 2  
52.7731, 159  
40.8391, 143.749  
44.5448, 147.428  
31.5562, 143.012  
33.8044, 140.032  
43.1, 155.091  
38.9339, 148.806  
54.8135, 140.391  
32.3224, 148.885  
42.2113, 149.106  
GENE X5  
Condition 1, Condition 2  
21.5054, 103.522  
10.8717, 30.222

11.1155,30.932  
18.1632,63.2111  
31.5977,43.544  
24.7906,57.0125  
18.1525,43.2198  
10.0916,37.9023  
10.9538,58.0455  
23.1862,18.7276

BS19B032

GENE X1

Condition 1, Condition 2

27.7769, 33.3034

21.2736, 21.1363

28.2637, 14.1644

29.2916, 36.4417

25.7674, 26.7007

31.1568, 20.0301

22.7387, 31.9641

39.0796, 35.6778

30.5071, 22.9299

30.5116, 34.7402

GENE X2

Condition 1, Condition 2

64.0663, 148.655

55.6656, 103.979

59.3124, 110.862

57.1801, 143.606

59.4862, 151.943

33.7639, 141.781

50.8487, 111.284

77.8323, 85.4994

82.5079, 94.3747

72.8882, 123.646

GENE X3

Condition 1, Condition 2

60.2422, 189.002

103.134, 157.767

91.4557, 174.93

89.6557, 149.099

98.2001, 140.332

81.5571, 178.895

98.5194, 172.34

76.0513, 157.367

90.1671, 123.446

84.8025, 177.002

GENE X4

Condition 1, Condition 2

67.7552, -14.911

63.3153, 25.971

78.1409, -10.14

76.0702, -10.9945

53.9091, 12.7417

68.6133, -18.5132

68.582, -30.0237

73.9577, 6.06892

78.9145, 30.0272

77.7847, 48.4985

GENE X5

Condition 1, Condition 2

87.6044, 137.207

90.5634, 173.959

84.4395,132.222  
73.6515,128.148  
67.2245,149.223  
67.8211,134.407  
40.3177,137.016  
74.5496,170.977  
65.5414,144.612  
68.2706,107.827

BS19B033  
GENE X1  
Condition 1, Condition 2  
44.9087, 90.3129  
80.9885, 114.685  
50.0663, 120.828  
79.1887, 103.907  
47.2916, 134.395  
58.7153, 82.5624  
45.6283, 90.2469  
48.8687, 67.7488  
62.7783, 67.9344  
34.6617, 129.356  
GENE X2  
Condition 1, Condition 2  
28.3572, 70.0946  
40.6516, 74.7633  
42.2696, 78.3981  
34.7505, 51.2208  
53.9452, 77.8792  
52.1322, 80.9555  
56.3794, 56.4791  
58.5878, 85.6695  
62.8417, 67.3086  
61.1471, 74.2977  
GENE X3  
Condition 1, Condition 2  
88.702, 85.9046  
95.6178, 85.2355  
91.8435, 110.891  
72.8027, 104.907  
75.7433, 101.513  
72.4778, 60.6192  
73.742, 91.0538  
75.3849, 128.232  
88.6402, 109.58  
70.3087, 99.7577  
GENE X4  
Condition 1, Condition 2  
67.5925, 140.315  
60.6393, 144.566  
53.1813, 142.188  
65.2323, 151.231  
59.7499, 174.132  
62.6271, 155.332  
63.4772, 161.5  
66.6426, 179.83  
66.1998, 207.884  
53.8911, 173.857  
GENE X5  
Condition 1, Condition 2  
43.8309, 136.967  
36.1771, 142.734

46.8855,146.405  
41.1421,147.491  
42.3579,154.156  
22.4694,160.09  
37.1481,146.664  
31.2742,152.034  
34.1502,139.801  
36.707,141.403

BS19B034

GENE X1

Condition 1, Condition 2

-6.63775, 170.733

4.80207, 173.87

25.1503, 175.539

8.8942, 160.472

18.9549, 156.188

25.3827, 180.494

28.848, 169.328

-0.76426, 173.675

6.5671, 173.514

19.6291, 176.705

GENE X2

Condition 1, Condition 2

89.4443, 150.013

70.7522, 163.88

87.7893, 95.2007

86.3522, 122.474

76.8672, 105.881

96.6499, 102.8

99.693, 118.045

80.2898, 124.035

83.1804, 122.832

90.5896, 159.062

GENE X3

Condition 1, Condition 2

108.101, 41.1462

90.793, 22.4444

83.3803, 22.6941

96.9533, 31.0662

91.5263, 41.5794

82.532, 32.3069

88.4882, 35.4657

83.6019, 35.3915

93.4275, 46.5902

77.1466, 24.6025

GENE X4

Condition 1, Condition 2

97.0331, 15.8922

84.5835, 20.6128

91.3851, 20.2331

91.5075, 19.7551

94.025, 11.1844

90.9223, 17.553

79.3985, 9.23048

88.8453, 21.8017

85.563, 11.9267

88.3167, 11.1234

GENE X5

Condition 1, Condition 2

61.5364, 194.726

28.5724, 182.936

40.3493,180.804  
47.6382,211.611  
12.3047,187.36  
46.4219,203.155  
55.9806,188.126  
35.2895,186.63  
56.3641,170.043  
32.845,152.517

BS19B035  
GENE X1  
Condition 1, Condition 2  
100.449, 153.874  
75.2132, 151.337  
90.2752, 161.834  
84.4235, 187.191  
106.115, 172.471  
101.23, 154.88  
87.2385, 136.307  
105.753, 178.23  
102.183, 148.523  
104.888, 161.343  
GENE X2  
Condition 1, Condition 2  
65.4161, 104.742  
49.832, 125.303  
73.1216, 130.592  
37.3359, 108.902  
59.5737, 97.0127  
79.8071, 116.617  
72.5374, 110.916  
45.0701, 132.466  
46.2625, 121.607  
38.4386, 162.267  
GENE X3  
Condition 1, Condition 2  
18.8475, 46.7181  
18.5426, 57.5095  
8.75904, 48.9296  
6.68153, 51.4693  
7.74838, 48.9052  
12.6683, 32.7072  
7.64594, 58.4706  
-0.923078, 48.7155  
-2.92489, 39.4786  
-4.43246, 22.1928  
GENE X4  
Condition 1, Condition 2  
71.4495, 46.0787  
86.9933, 43.2444  
73.2451, 43.6728  
80.5188, 61.0302  
85.079, 33.6903  
78.4477, 63.0636  
85.8402, 63.8536  
80.5758, 50.4757  
86.2891, 51.1746  
85.3124, 62.3775  
GENE X5  
Condition 1, Condition 2  
87.636, 65.8529  
80.5813, 70.7969

96.3759,92.9554  
87.8665,66.0309  
86.6124,77.0928  
76.0506,86.157  
79.0649,104.458  
86.449,66.6827  
65.2147,68.8202  
87.6769,101.045

CE16B017

GENE X1

Condition 1, Condition 2

48.3903, 66.7692

53.9005, 69.6876

36.5552, 49.4103

50.5313, 97.2594

52.9684, 96.6108

66.7661, 102.018

60.8373, 116.838

45.5936, 86.7468

57.8696, 79.9376

49.8558, 101.76

GENE X2

Condition 1, Condition 2

76.1144, 181.572

72.0703, 202.183

78.557, 165.472

82.8364, 172.669

92.0968, 171.453

87.0627, 183.414

59.5375, 211.63

74.7389, 207.733

78.2325, 185.196

77.9073, 200.981

GENE X3

Condition 1, Condition 2

67.3719, 76.5386

61.8624, 69.7187

57.7371, 78.3616

86.5088, 77.2584

42.3051, 76.6086

46.6977, 92.5513

66.471, 77.3037

70.418, 70.0214

66.1324, 71.1576

46.4137, 74.3482

GENE X4

Condition 1, Condition 2

35.3909, 111.102

15.2, 116.222

30.7199, 162.616

35.4029, 122.423

24.4223, 125.437

24.901, 79.6564

29.0972, 100.847

29.0153, 143.626

25.236, 122.136

32.2283, 93.7554

GENE X5

Condition 1, Condition 2

90.6199, 156.198

82.6947, 169.592

57.23,142.322  
86.8371,149.789  
62.9997,166.406  
73.9684,139.117  
72.6665,157.798  
78.7061,159.702  
79.8725,159.96  
75.323,152.41

CE16B105  
GENE X1  
Condition 1, Condition 2  
18.9048, 146.812  
2.0092, 121.539  
8.89738, 140.292  
10.6755, 129.217  
-8.60715, 153.012  
11.7154, 169.487  
5.19356, 145.519  
11.8039, 147.689  
7.50061, 127.46  
-0.783168, 135.074  
GENE X2  
Condition 1, Condition 2  
82.0963, 154.961  
97.2475, 152.366  
91.1477, 159.2  
88.0248, 150.74  
80.8752, 138.768  
101.329, 157.631  
87.1268, 140.437  
77.379, 138.246  
92.8757, 133.652  
104.149, 142.951  
GENE X3  
Condition 1, Condition 2  
92.8093, 149.698  
86.6374, 166.587  
100.849, 129.57  
105.035, 164  
98.1008, 168.59  
104.615, 181.841  
97.3511, 163.539  
96.5306, 185.9  
94.1336, 161.185  
102.071, 178.842  
GENE X4  
Condition 1, Condition 2  
85.6699, 192.062  
82.9499, 209.096  
64.0486, 192.848  
89.8813, 178.71  
87.9448, 179.668  
75.5394, 183.688  
48.2483, 190.816  
69.8325, 192.506  
69.0056, 178.935  
65.1685, 198.578  
GENE X5  
Condition 1, Condition 2  
79.3258, 67.3611  
55.6807, 79.9652

62.2208,96.4152  
76.4956,60.3142  
66.3455,94.2591  
71.3169,44.4281  
59.2865,74.3072  
65.2048,58.9658  
54.2884,73.0595  
49.5914,37.7681

CE16B107  
GENE X1  
Condition 1, Condition 2  
8.1405, 137.232  
26.3092, 122.064  
28.7115, 137.153  
28.2461, 154.495  
15.1028, 130.613  
31.331, 112.233  
13.0644, 109.741  
22.686, 138.38  
22.7709, 139.538  
7.91313, 105.218  
GENE X2  
Condition 1, Condition 2  
35.4836, 92.0337  
60.979, 107.293  
38.2601, 66.9311  
31.8912, 97.8682  
54.3512, 92.8885  
46.1169, 104.311  
37.1679, 91.1078  
39.4375, 75.1278  
35.3492, 91.1349  
47.7003, 79.0388  
GENE X3  
Condition 1, Condition 2  
62.0545, 145.56  
58.3614, 145.403  
57.8032, 158.303  
66.33, 154.769  
68.103, 137.922  
61.7596, 186.028  
61.8925, 163.908  
60.3035, 143.77  
59.3102, 155.556  
59.4895, 125.79  
GENE X4  
Condition 1, Condition 2  
59.6662, 3.07188  
54.5497, 35.1019  
63.5335, -4.62764  
68.6691, 20.7063  
56.5871, 5.67151  
58.2335, -0.638964  
68.0861, 2.89936  
58.2163, 5.8323  
56.7255, 1.29812  
66.6496, -5.10599  
GENE X5  
Condition 1, Condition 2  
-4.06601, 122.565  
0.0605546, 118.515

37.1176,174.825  
9.50843,138.387  
-1.58965,161.108  
-16.114,149.903  
5.91131,148  
12.498,131.692  
29.1114,142.824  
0.441699,162.884

CE16B110  
GENE X1  
Condition 1, Condition 2  
101.685, 123.726  
80.0042, 98.3642  
84.3354, 118.861  
117.828, 105.26  
91.4643, 105.357  
90.2125, 108.502  
67.826, 92.5511  
98.0415, 82.5757  
101.1, 111.351  
107.159, 141.321  
GENE X2  
Condition 1, Condition 2  
-10.614, 165.436  
22.6768, 143.209  
13.4621, 167.832  
-5.29211, 178.592  
13.0738, 165.501  
5.76409, 175.07  
28.4926, 191.753  
13.9663, 135.823  
10.9836, 152.968  
34.3583, 195.197  
GENE X3  
Condition 1, Condition 2  
49.5099, 90.9736  
47.63, 89.4721  
52.1421, 89.0109  
63.1428, 92.5382  
68.6177, 100.746  
51.0217, 78.6707  
39.2589, 100.192  
50.5257, 96.9872  
56.6845, 102.433  
57.9604, 101.564  
GENE X4  
Condition 1, Condition 2  
7.80864, 15.2869  
2.05458, 6.00908  
8.45558, 3.03768  
8.06331, 15.0894  
12.4456, 15.9177  
11.8397, 8.95404  
6.61691, 17.9349  
12.3685, 11.2301  
7.87605, 5.51109  
0.923772, 7.33612  
GENE X5  
Condition 1, Condition 2  
47.8405, 91.4477  
84.6751, 73.3617

57.5599,93.7385  
59.8344,75.356  
69.5889,91.9709  
58.8484,90.5887  
69.3245,81.7268  
74.7879,81.8428  
58.0164,87.8123  
67.9896,85.4446

CE16B111  
GENE X1  
Condition 1, Condition 2  
44.0698, 55.6619  
55.6104, 71.0328  
24.5055, 90.2607  
39.0221, 81.7035  
42.6912, 57.3451  
17.7421, 80.4918  
11.7574, 97.6476  
41.5525, 82.7695  
37.5773, 54.989  
45.9011, 63.1884  
GENE X2  
Condition 1, Condition 2  
69.6941, 60.7766  
74.9181, 73.5445  
67.8963, 90.2799  
80.3055, 90.2173  
75.3091, 88.2404  
69.8245, 80.7592  
70.1137, 80.189  
83.1237, 85.3222  
82.9725, 72.8641  
82.9721, 93.3856  
GENE X3  
Condition 1, Condition 2  
81.1903, -8.24744  
84.0585, 26.3054  
77.2637, 22.8842  
80.6266, 6.09145  
79.1802, 47.2997  
82.6647, -15.8339  
80.6123, -36.0036  
79.5719, -13.2811  
81.0397, -9.8999  
79.2278, -12.9365  
GENE X4  
Condition 1, Condition 2  
81.1215, 29.658  
89.1285, 51.2987  
85.5771, 26.3142  
99.7327, 44.4771  
103.654, 14.4751  
105.267, 19.9064  
69.6554, 25.3672  
86.7914, 18.4523  
100.281, 0.626187  
77.7614, -12.6172  
GENE X5  
Condition 1, Condition 2  
53.583, 122.745  
56.0772, 138.228

57.7162,149.31  
54.1942,130.238  
56.3862,134.085  
57.562,157.828  
59.7188,141.182  
54.0097,128.658  
55.0214,127.24  
59.5048,157.47

CE16B112  
GENE X1  
Condition 1, Condition 2  
89.7941, 86.1658  
92.8144, 60.6562  
87.6215, 85.4621  
94.4085, 101.504  
80.9662, 87.9675  
101.78, 95.8758  
98.866, 55.4615  
112.257, 85.5716  
95.6886, 44.3255  
95.3304, 66.1916  
GENE X2  
Condition 1, Condition 2  
15.3797, 75.2771  
17.1931, 81.9579  
20.88, 120.227  
16.4672, 79.7271  
23.7986, 89.6986  
14.3916, 107.738  
31.9424, 73.2304  
16.8757, 101.472  
22.2742, 74.4973  
11.8675, 93.777  
GENE X3  
Condition 1, Condition 2  
90.9577, 62.8513  
90.2889, 35.854  
91.4404, 35.322  
87.935, 24.6531  
96.0248, 8.52731  
91.5352, 11.5081  
86.4177, 15.6138  
92.9224, 17.374  
88.2471, 46.8753  
82.9336, 1.31378  
GENE X4  
Condition 1, Condition 2  
82.0475, 101.605  
61.2402, 127.189  
94.0943, 103.719  
56.4067, 106.622  
57.9462, 102.837  
105.811, 95.2777  
75.4691, 102.482  
103.113, 119.568  
66.4346, 104.542  
67.7025, 91.1399  
GENE X5  
Condition 1, Condition 2  
41.9692, 186.107  
48.24, 183.437

52.5473,185.912  
47.328,209.397  
82.7341,184.08  
63.6615,182.573  
36.9775,196.588  
51.4555,183.672  
61.7326,188.747  
33.293,204.318

CE16B125  
GENE X1  
Condition 1, Condition 2  
60.8564, 53.6719  
61.4889, 47.3665  
57.9757, 56.4399  
70.5453, 58.3178  
71.545, 65.8263  
54.7503, 27.7895  
50.9152, 69.7061  
62.1486, 113.752  
65.4257, 73.5543  
57.7149, 68.5879  
GENE X2  
Condition 1, Condition 2  
59.268, 13.4847  
34.9, 33.1186  
54.5291, 2.66367  
51.9103, 18.5314  
31.8497, 10.3048  
16.7036, 32.8156  
41.9397, 31.8917  
34.0665, 35.775  
12.6294, 18.9378  
32.2801, 32.5111  
GENE X3  
Condition 1, Condition 2  
1.74169, 52.923  
43.3442, 7.53164  
6.84597, 25.8691  
23.59, 76.3337  
21.1979, 52.5239  
11.7942, 9.90772  
10.409, 28.4441  
-3.12195, 45.6561  
21.3204, 18.8557  
34.1085, 2.57475  
GENE X4  
Condition 1, Condition 2  
43.2418, 62.8704  
16.3196, 84.678  
35.7751, 89.3927  
35.316, 80.4493  
26.8634, 77.5387  
42.2511, 79.1489  
43.9554, 82.2322  
20.4819, 91.3557  
37.9884, 79.2055  
47.7941, 97.2682  
GENE X5  
Condition 1, Condition 2  
31.2108, 106.578  
50.7474, 82.0647

28.452,83.5552  
41.7848,98.9542  
36.3836,90.8691  
40.5506,90.6079  
23.8266,67.7481  
26.7967,106.189  
14.9798,83.9381  
31.6725,80.6791

CE16B126  
GENE X1  
Condition 1, Condition 2  
23.2481, 126.876  
27.0976, 130.845  
21.939, 126.558  
14.0513, 131.44  
18.6209, 104.295  
22.3617, 140.241  
22.5153, 113.359  
19.324, 141.771  
18.7408, 137.057  
21.6178, 122.275  
GENE X2  
Condition 1, Condition 2  
91.0794, 86.2489  
90.6196, 96.9194  
95.0317, 80.4083  
89.5421, 71.7638  
75.0464, 91.6541  
90.4436, 87.3517  
72.3266, 103.363  
89.705, 75.7026  
92.6159, 88.694  
84.4711, 88.618  
GENE X3  
Condition 1, Condition 2  
68.2799, 62.9428  
75.8523, 31.9474  
73.4574, 78.1036  
70.8549, 78.6523  
76.1295, 65.0514  
75.6404, 8.01898  
87.4536, 76.6379  
76.695, 81.8363  
76.4737, 83.7588  
71.4694, 52.4866  
GENE X4  
Condition 1, Condition 2  
94.8859, 70.9127  
81.001, 77.4038  
83.8868, 81.464  
109.97, 77.6827  
98.6509, 86.0369  
110.762, 104.09  
93.5788, 66.8555  
77.5108, 83.95  
84.5516, 81.4154  
85.6737, 81.7195  
GENE X5  
Condition 1, Condition 2  
104.444, 85.6769  
91.5079, 114.042

85.9983,104.119  
114.352,102.936  
88.6559,162.818  
108.573,130.383  
112.715,128.347  
81.2025,103.16  
97.3857,124.148  
103.25,90.0119

CE16B129  
GENE X1  
Condition 1, Condition 2  
34.5005, 144.455  
29.1173, 187.348  
12.938, 120.365  
10.632, 153.5  
14.7703, 147.263  
29.6213, 135.363  
35.4817, 157.946  
29.5235, 166.17  
31.3902, 138.727  
31.8319, 187.609  
GENE X2  
Condition 1, Condition 2  
97.2988, -4.99647  
86.7687, 9.56257  
91.0843, 13.8975  
90.232, 6.18279  
86.2202, 8.46341  
95.2107, -9.26365  
93.3479, 34.3868  
86.1973, -7.50785  
92.6638, 27.9237  
90.8709, -0.0471933  
GENE X3  
Condition 1, Condition 2  
21.4072, 89.1749  
28.4901, 86.6464  
26.1533, 104.343  
21.1106, 117.073  
33.8338, 114.389  
26.3898, 109.272  
45.0142, 104.361  
37.3401, 118.663  
36.9587, 126.057  
30.6752, 103.747  
GENE X4  
Condition 1, Condition 2  
30.4643, 154.477  
40.2573, 143.294  
12.2473, 185.932  
45.5616, 194.302  
51.2381, 166.212  
21.8004, 200.906  
31.1565, 178.09  
38.84, 164.333  
53.1666, 186.509  
49.7768, 197.365  
GENE X5  
Condition 1, Condition 2  
66.2665, 104.705  
40.973, 127.112

56.1056,138.3  
53.1491,132.979  
82.3204,135.328  
71.2058,141.69  
38.1062,119.267  
58.3544,168.655  
43.4031,117.591  
43.1213,94.5427

CE16B135

GENE X1

Condition 1, Condition 2

69.4248, 212.844

38.5255, 182.33

40.9853, 161.088

44.7042, 169.345

25.236, 135.692

52.4122, 193.989

15.728, 136.044

23.12, 178.254

40.7642, 137.659

43.5456, 110.578

GENE X2

Condition 1, Condition 2

90.4116, 5.92562

78.5172, 43.5074

65.1883, 19.692

95.7611, 16.5814

71.4255, 38.8408

70.9839, 26.1763

74.1148, 14.8056

86.2907, 27.3254

103.02, 0.362255

76.7629, 23.2083

GENE X3

Condition 1, Condition 2

97.366, 162.929

79.1307, 163.18

101.502, 179.884

84.6312, 168.081

102.078, 156.023

97.1324, 164.781

92.4034, 166.954

109.938, 170.748

100.311, 170.676

88.3621, 162.947

GENE X4

Condition 1, Condition 2

5.39353, 131.04

17.5862, 104.838

8.17861, 120.793

28.5139, 111.002

7.58909, 133.075

-5.19311, 128.954

15.32, 140.539

15.1335, 115.053

26.5727, 119.64

9.47886, 155.117

GENE X5

Condition 1, Condition 2

68.8427, 78.4022

49.2959, 91.4087

45.153,79.1162  
90.6668,89.1836  
54.6733,72.4666  
81.3588,82.7203  
57.4055,78.3824  
79.9449,66.7581  
60.7066,76.0739  
85.5677,100.967

CE16B136  
GENE X1  
Condition 1, Condition 2  
63.157,147.945  
63.52,131.319  
62.5803,160.703  
70.3433,148.819  
59.6019,163.647  
61.7014,138.246  
58.7197,156.509  
62.6348,128.093  
70.8613,140.416  
54.866,158.718  
GENE X2  
Condition 1, Condition 2  
67.5231,122.326  
78.4773,121.085  
73.643,133.665  
75.1374,118.688  
66.5411,132.723  
68.8429,120.38  
62.3932,114.083  
86.5194,153.277  
83.3042,127.654  
60.5927,122.909  
GENE X3  
Condition 1, Condition 2  
52.3702,193.008  
16.2017,195.052  
17.3294,162.854  
38.4891,178.854  
53.7613,185.976  
30.6586,176.924  
35.1871,179.125  
32.664,191.661  
35.1777,201.588  
37.7933,194.525  
GENE X4  
Condition 1, Condition 2  
90.8153,108.009  
81.6028,144.502  
92.1115,163.192  
82.9416,170.063  
97.5909,148.956  
93.3881,124.335  
93.3083,136.694  
72.2139,111.106  
90.2615,83.921  
94.7301,116.106  
GENE X5  
Condition 1, Condition 2  
63.2909,100.498  
60.2061,91.44

90.9372,126.268  
50.8296,111.23  
67.7601,110.711  
62.7944,129.784  
47.2785,99.0055  
57.1801,126.638  
40.6123,110.264  
61.6453,84.538

CE17B004

GENE X1

Condition 1, Condition 2

37.079, 77.956

44.091, 78.3685

56.188, 97.9564

53.482, 74.9656

65.412, 74.0043

30.109, 77.5904

20.947, 94.9612

62.538, 44.6334

49.833, 95.6916

51.736, 79.9021

GENE X2

Condition 1, Condition 2

89.812, 611.988

80.885, 87.1036

82.146, 108.073

90.165, 100.071

87.582, 94.1649

81.621, 78.3815

112.274, 93.2752

77.270, 79.2215

83.158, 89.3815

88.703, 102.421

GENE X3

Condition 1, Condition 2

4.38387, 131.82

6.02665, 133.106

4.44744, 136.995

5.72669, 98.2146

-2.73337, 138.585

-4.18095, 111.719

-3.75578, 114.006

1.13978, 126.328

7.05537, 138.838

26.4923, 128.606

GENE X4

Condition 1, Condition 2

49.7232, 102.948

65.5196, 96.6713

58.4801, 83.6906

56.0306, 100.153

13.3326, 70.358

59.6005, 86.7108

65.2874, 84.6761

56.9935, 89.7107

20.8529, 91.0247

50.7363, 88.1359

GENE X5

Condition 1, Condition 2

45.6926, 12.8871

35.0115, 36.9659

46.1516,29.4925  
26.1537,22.1537  
42.3858,37.7664  
53.6646,39.7125  
42.7027,10.6645  
63.1182,11.2182  
44.6097,49.7727  
35.7956,29.4735

CE17B008  
GENE X1  
Condition 1, Condition 2  
36.8396, 55.5659  
1.79295, 40.0472  
53.5513, 18.8965  
8.71793, 53.8248  
0.180772, 74.6328  
57.5917, 30.4445  
51.491, 40.4646  
26.5287, 26.9788  
-1.07078, 34.5981  
14.7516, 52.767  
GENE X2  
Condition 1, Condition 2  
65.4022, 134.037  
72.9542, 111.323  
87.915, 133.344  
68.3057, 140.184  
70.7819, 120.215  
55.7165, 122.713  
65.7293, 121.733  
62.751, 117.139  
41.8528, 121.993  
54.8396, 98.0009  
GENE X3  
Condition 1, Condition 2  
2.92047, 57.7215  
8.92732, 52.358  
1.28854, 75.0185  
8.2541, 74.7986  
4.98307, 63.5539  
7.02534, 54.0167  
10.8523, 59.1555  
5.67528, 54.6852  
9.90417, 76.1632  
15.9622, 68.3022  
GENE X4  
Condition 1, Condition 2  
67.7624, 43.1981  
36.7563, 52.0083  
43.9775, 7.05828  
47.8192, 40.3652  
57.262, 42.157  
36.7173, 42.2256  
61.636, 40.4573  
36.5601, 60.852  
39.8184, 45.3632  
36.8794, 42.8184  
GENE X5  
Condition 1, Condition 2  
-6.39784, 163.007  
24.1281, 171.964

29.1771,163.868  
37.3121,170.731  
36.0571,150.54  
16.9883,156.935  
30.3654,163.169  
27.5334,165.761  
14.8723,155.306  
14.1418,172.547

CE17B009  
GENE X1  
Condition 1, Condition 2  
42.4867, 32.6887  
78.8573, 43.7023  
78.2205, 27.2202  
25.4049, 60.2195  
64.9528, 38.7768  
89.4205, 51.0765  
77.7364, 24.3849  
54.2484, 39.7559  
75.0036, 37.3809  
85.0285, 46.4846  
GENE X2  
Condition 1, Condition 2  
69.1296, 104.872  
56.7097, 99.162  
38.9447, 117.299  
66.284, 121.38  
56.7346, 137.54  
64.9955, 127.675  
75.6013, 84.2358  
66.4247, 101.26  
50.1433, 103.291  
48.6867, 114.569  
GENE X3  
Condition 1, Condition 2  
5.50742, 153.095  
-15.4253, 103.98  
3.47508, 139.502  
23.209, 138.693  
8.40899, 129.884  
30.5142, 184.616  
8.30507, 143.007  
4.00876, 131.452  
0.0795283, 186.367  
8.82864, 128.562  
GENE X4  
Condition 1, Condition 2  
14.6986, 137.205  
1.48816, 132.35  
6.56996, 127.236  
19.3746, 124.109  
6.45402, 160.231  
9.68486, 141.122  
16.7196, 150.164  
15.3776, 140.174  
-4.81508, 120.465  
17.5232, 167.862  
GENE X5  
Condition 1, Condition 2  
46.1047, 75.9059  
31.288, 39.7033

20.1736,51.6074  
42.9863,51.2007  
48.4596,47.0011  
39.8196,59.0757  
37.0594,57.5855  
21.3492,59.9328  
48.5521,93.1534  
49.9899,64.1107

CE17B010

GENE X1

Condition 1, Condition 2

28.4604, 69.8439

52.0354, 46.9622

54.8541, 95.0853

38.642, 76.0418

31.1415, 85.4457

20.8217, 63.4428

37.5776, 54.5838

37.1357, 83.8341

57.3062, 80.9428

66.7108, 85.3667

GENE X2

Condition 1, Condition 2

76.8172, 128.846

42.8024, 143.024

45.1442, 112.82

75.9782, 116.741

62.1738, 136.684

46.7025, 120.037

74.3056, 123.053

67.7684, 139.09

75.7359, 128.129

65.0137, 134.482

GENE X3

Condition 1, Condition 2

87.5047, 80.8317

82.6275, 84.6146

85.2101, 86.7468

89.2803, 76.6539

88.1105, 84.0091

86.3825, 75.0775

87.6052, 82.8716

84.1319, 79.0712

87.6574, 74.7912

82.9535, 79.822

GENE X4

Condition 1, Condition 2

53.3197, 16.1914

72.4055, 17.1587

53.8142, 12.8222

76.1472, 11.555

82.5607, 11.3136

71.9369, -5.45467

43.4406, 4.59787

73.3798, 11.1401

46.1642, 9.15854

64.6718, 20.9582

GENE X5

Condition 1, Condition 2

6.80433, 174.601

22.8579, 175.601

10.1829,190.636  
1.13038,171.816  
1.32671,173.681  
44.4267,191.532  
20.0451,175.579  
32.9436,187.441  
2.86509,183.39  
17.5937,162.231

CE17B012

GENE X1

Condition 1, Condition 2

64.8954, 202.147

63.2603, 206.173

55.8371, 179.345

56.1176, 188.892

59.8495, 195.361

65.8167, 189.868

68.388, 206.152

62.2684, 202.536

64.3671, 199.858

63.5009, 191.174

GENE X2

Condition 1, Condition 2

46.1579, 134.053

62.4718, 131.699

53.0841, 138.653

50.1117, 135.471

52.9, 149.375

50.954, 142.263

61.2524, 134.481

53.5211, 133.495

41.7025, 136.941

47.6249, 127.356

GENE X3

Condition 1, Condition 2

70.6623, 32.3492

52.8963, 52.1998

79.3045, 17.4639

53.1103, 28.2741

55.0589, 51.503

77.9558, 38.6089

60.5311, 34.0079

63.7601, 19.4426

47.9143, 60.6972

60.985, 24.8585

GENE X4

Condition 1, Condition 2

75.0631, 88.1386

40.3851, 83.9226

38.7377, 78.9637

35.7232, 75.8852

44.7317, 95.5033

51.5119, 83.3998

21.1449, 86.3388

44.2278, 82.4229

21.6996, 94.9144

47.7297, 73.9601

GENE X5

Condition 1, Condition 2

68.0845, 151.795

90.5801, 165.009

68.9364,98.4479  
79.5357,141.702  
75.876,205.576  
84.599,104.022  
66.4459,154.955  
61.3585,168.53  
71.9749,186.102  
78.2123,172.049

CE17B013

GENE X1

Condition 1, Condition 2

3.38202, 152.516

13.6407, 113.406

14.0588, 92.8268

8.00884, 117.147

6.62924, 118.619

18.1134, 133.319

2.61829, 115.794

10.1787, 132.125

25.0992, 134.92

5.38421, 127.713

GENE X2

Condition 1, Condition 2

25.1517, 171.273

11.9075, 175.123

4.17179, 179.118

18.835, 174.225

25.139, 181.173

14.2309, 180.439

38.8477, 203.597

36.8947, 178.667

52.946, 185.588

26.5784, 174.047

GENE X3

Condition 1, Condition 2

19.1129, 179.476

0.205367, 145.227

16.7566, 162.943

18.1648, 170.485

-0.924231, 126.47

3.78303, 143.95

0.178078, 138.602

21.7561, 194.752

28.2924, 118.442

13.0646, 176.739

GENE X4

Condition 1, Condition 2

48.7798, 82.1524

50.6716, 102.481

59.1805, 72.9245

52.5036, 88.4694

55.2155, 75.8974

48.2787, 79.6233

57.059, 69.5337

53.1136, 94.9987

55.7314, 84.4456

52.5373, 61.697

GENE X5

Condition 1, Condition 2

62.6743, 170.032

71.7936, 213.695

52.2782,185.337  
68.4995,157.699  
60.2865,189.142  
45.1598,191.28  
52.8771,225.339  
67.483,154.934  
72.8719,170.543  
43.1226,188.044

CE17B014

GENE X1

Condition 1, Condition 2

28.5129,-3.84361

30.8313,-10.1357

31.7725,40.9518

30.3964,26.8426

-3.232,14.2852

23.7269,25.8994

17.1353,43.5461

14.4473,50.9068

-1.77917,7.91841

36.2799,22.2552

GENE X2

Condition 1, Condition 2

98.3621,33.5264

81.9623,116.367

63.2107,42.1115

73.0016,70.4472

69.2553,56.6286

74.8714,64.7069

72.4164,41.8837

59.0096,76.0128

89.2864,84.3881

81.2066,49.4645

GENE X3

Condition 1, Condition 2

11.3097,190.084

11.6373,171.545

15.7893,176.404

2.98294,176.253

12.6238,177.527

9.10424,164.781

16.431,184.157

14.2121,175.983

14.068,166.982

14.5568,171.791

GENE X4

Condition 1, Condition 2

47.2304,158.053

36.0288,108.239

33.9795,149.52

48.3487,103.992

55.4356,128.057

48.8525,121.2

26.0261,101.45

46.7172,107.919

42.8243,94.2403

58.105,102.62

GENE X5

Condition 1, Condition 2

64.4556,143.72

96.349,151.982

48.0358,101.5  
28.3878,109.965  
65.5735,134.199  
63.9576,126.244  
50.5035,124.47  
61.2968,133.376  
58.5657,124.064  
41.6988,128.734

CE17B015

GENE X1

Condition 1, Condition 2

100.645, 106.608

91.2205, 113.314

101.339, 132.389

57.5098, 115.504

107.43, 118.809

80.3266, 141.385

72.6081, 92.7837

85.8737, 133.806

56.8001, 102.259

51.6643, 145.453

GENE X2

Condition 1, Condition 2

19.8181, 201.288

17.73, 172.891

13.6715, 228.177

13.4851, 198.686

12.7491, 167.481

14.0384, 188.848

14.8485, 207.918

17.376, 173.262

17.8225, 165.087

13.7, 185.523

GENE X3

Condition 1, Condition 2

75.5925, 12.0366

51.5765, 60.2946

50.7336, 59.289

90.7392, 36.3881

90.4823, 5.5227

82.7273, 31.3922

77.4951, 14.6543

63.913, 25.9345

86.819, 69.6052

69.7603, 29.0682

GENE X4

Condition 1, Condition 2

15.7297, -4.05768

15.7823, 26.0171

7.44827, -31.56

3.25678, 13.4225

20.7188, -17.3849

19.2518, 26.3126

17.9912, -7.01878

11.4468, 24.1206

11.6968, -21.9658

13.3843, 13.3656

GENE X5

Condition 1, Condition 2

77.0565, 149.447

119.279, 114.218

104.994,116.597  
81.0818,122.535  
70.3569,138.776  
60.422,136.631  
92.917,143.525  
107.128,111.381  
113.342,141.99  
76.9502,140.674

CE17B016

GENE X1

Condition 1, Condition 2

61.0145, 73.6753

34.5766, 87.5701

49.7364, 67.1381

59.5347, 76.9376

42.9522, 84.4952

51.5787, 65.2599

84.5786, 83.2129

89.3439, 89.1156

34.4429, 81.1663

21.4733, 83.833

GENE X2

Condition 1, Condition 2

96.1131, 182.245

97.5508, 234.752

93.5606, 193.838

93.2926, 177.254

94.7733, 191.006

96.389, 195.545

94.1728, 193.918

96.1714, 222.688

93.9702, 175.699

94.0091, 195.206

GENE X3

Condition 1, Condition 2

22.7552, 67.254

21.4572, 15.0193

15.4592, 54.7136

23.5609, 21.9282

22.7793, 30.4538

47.3392, 1.7808

8.21649, -0.993897

14.744, 24.843

43.3408, 10.0634

40.1309, 41.3926

GENE X4

Condition 1, Condition 2

47.174, 117.666

53.3833, 171.458

63.6283, 134.352

41.7469, 118.366

39.1845, 148.747

48.0013, 128.954

48.718, 151.481

64.0762, 134.444

40.98, 131.47

80.0736, 110.459

GENE X5

Condition 1, Condition 2

48.8682, 38.1589

43.7921, 16.7441

40.2508,-15.8138  
48.6408,4.10763  
56.0953,30.4217  
47.3632,9.7314  
41.356,7.57824  
44.8241,7.11779  
47.8028,21.9099  
40.8015,1.14663

CE17B017

GENE X1

Condition 1, Condition 2

68.9852, 100.411

45.5865, 130.139

44.0618, 135.157

53.8394, 134.925

42.3808, 133.181

52.6238, 128.315

57.1595, 137.985

34.3695, 132.652

48.872, 122.737

48.4774, 129.186

GENE X2

Condition 1, Condition 2

50.1999, 72.8706

39.7542, 83.4482

27.9505, 103.571

48.3347, 60.6386

48.3251, 85.9533

55.1788, 66.2174

33.5454, 93.8579

42.4756, 88.7296

28.659, 104.502

54.3352, 91.3286

GENE X3

Condition 1, Condition 2

93.2619, 150.393

87.5245, 144.31

84.8987, 135.026

87.3805, 152.108

94.5972, 140.019

87.5623, 146.418

83.1676, 132.994

87.0786, 117.561

90.0898, 127.348

87.4496, 120.691

GENE X4

Condition 1, Condition 2

23.95, 85.3563

12.4627, 109.736

20.9819, 89.4075

-7.69144, 112.665

35.6621, 148.491

25.2611, 81.6913

10.5163, 101.961

11.1114, 118.886

27.8481, 89.5391

25.0105, 105.635

GENE X5

Condition 1, Condition 2

-17.1065, 186.33

-9.39911, 175.534

15.1184,177.301  
-9.45607,168.886  
-3.85816,183.158  
17.8261,176.303  
-4.4081,174.944  
-0.249175,177.492  
2.82111,176.572  
16.1824,170.982

CE17B018

GENE X1

Condition 1, Condition 2

15.9739, 152.187

-6.23677, 138.57

-10.5239, 147.186

12.0459, 151.663

13.5698, 162.858

19.575, 151.089

3.86984, 156.479

0.677339, 163.64

-1.64993, 142.636

17.2896, 129.884

GENE X2

Condition 1, Condition 2

47.0175, 108.885

46.7123, 76.4065

46.7561, 111.456

47.0204, 123.755

47.2519, 117.633

49.9322, 57.1474

48.4999, 103.94

46.6705, 125.542

48.0186, 93.4218

47.5767, 95.1779

GENE X3

Condition 1, Condition 2

41.2396, 88.1646

50.4381, 106.78

36.2759, 90.9725

49.6986, 125.809

29.0649, 91.6812

31.7929, 133.16

33.0404, 99.7319

32.6562, 117.681

38.7244, 141.501

32.7158, 102.41

GENE X4

Condition 1, Condition 2

43.0408, 32.7106

57.0116, 42.3829

65.9951, 58.0346

25.6303, 32.5573

32.4962, 35.8637

40.8474, 38.2922

42.2535, 36.2144

55.6347, 36.4303

56.6876, 46.9706

63.263, 40.6117

GENE X5

Condition 1, Condition 2

43.4876, 9.32573

-11.8597, 67.0236

-6.22353,5.50261  
1.33734,31.2356  
25.0017,19.8063  
31.3925,22.8733  
11.7116,56.5504  
10.061,70.5301  
7.24954,58.4671  
14.7538,66.8805

CE17B019

GENE X1

Condition 1, Condition 2

75.0005, 182.588

69.3467, 155.75

95.4361, 171.088

94.1592, 168.951

92.0527, 171.391

100.023, 158.087

106.302, 180.77

78.6664, 193.02

65.1318, 144.816

82.5363, 226.731

GENE X2

Condition 1, Condition 2

25.0279, 25.4009

34.1859, 25.1538

44.5531, 11.3763

67.0509, 24.8282

33.3225, 33.0193

56.3482, 29.744

53.7482, 12.8404

66.4554, 26.4123

34.9676, 43.6137

13.7763, 43.2442

GENE X3

Condition 1, Condition 2

67.7652, 33.9139

68.9048, -7.84037

58.2765, -6.59032

72.3181, -8.6477

74.9798, 3.74652

70.4204, -3.44043

66.4109, 19.7894

75.7301, 38.253

68.3219, -8.351

71.0397, -10.7317

GENE X4

Condition 1, Condition 2

60.4805, 118.417

73.7541, 134.541

53.2688, 121.475

71.9643, 131.707

70.523, 146.38

59.4826, 136.449

60.4137, 124.779

61.9979, 125.025

71.8053, 116.627

63.5487, 127.835

GENE X5

Condition 1, Condition 2

13.4365, 42.6928

17.9253, 33.3447

19.1218,23.5445  
24.0717,27.4554  
6.70087,24.5789  
14.2615,19.6364  
13.8404,53.6608  
13.7231,31.0919  
0.783872,35.639  
15.0902,34.1382

CE17B020

GENE X1

Condition 1, Condition 2

80.7907, 170.544

86.5042, 173.133

87.4709, 154.172

83.7494, 158.836

87.5471, 168.988

85.9531, 188.288

88.5152, 164.231

83.4378, 179.716

83.6662, 167.695

82.7403, 215.733

GENE X2

Condition 1, Condition 2

29.2533, 103.129

39.3841, 67.878

22.6744, 40.476

32.0332, 114.022

27.9382, 87.0212

34.2082, 90.3267

30.5752, 95.4308

24.4434, 77.3729

15.5889, 94.8841

35.8113, 84.1476

GENE X3

Condition 1, Condition 2

28.9597, 98.8094

37.0357, 76.2435

32.4192, 103.576

33.3876, 93.2567

27.8082, 82.2112

26.1256, 89.255

36.5439, 80.6128

29.1164, 77.1122

29.5985, 92.0989

27.3857, 77.5304

GENE X4

Condition 1, Condition 2

92.8411, 79.6281

91.3465, 79.705

81.3189, 55.2056

105.824, 84.4545

96.8633, 75.3338

102.686, 63.9056

76.7655, 94.2975

96.907, 73.9965

79.6076, 93.3858

72.5934, 61.9256

GENE X5

Condition 1, Condition 2

96.6414, 111.836

79.5215, 23.1692

83.1009,80.4201  
83.4549,81.6563  
91.9844,92.6211  
90.6927,124.85  
77.6938,101.026  
90.8543,124.09  
88.1551,94.8462  
92.1581,108.286

CE17B022

GENE X1

Condition 1, Condition 2

91.3172, 152.651

90.6528, 187.539

91.198, 164.324

92.1347, 184.86

91.1556, 158.235

89.695, 201.761

89.8383, 175.705

92.1566, 149.413

92.6339, 145.595

91.5707, 197.763

GENE X2

Condition 1, Condition 2

49.9048, 141.914

62.166, 119.944

48.2051, 146.918

44.8061, 125.842

45.0514, 150.783

49.1152, 155.922

50.072, 154.901

57.4958, 134.263

39.6917, 136.905

44.3288, 132.553

GENE X3

Condition 1, Condition 2

49.1005, 100.425

29.7846, 71.7205

44.009, 86.8927

24.9951, 68.0818

46.2426, 77.1105

36.7069, 98.032

33.0957, 77.0777

26.3757, 63.8768

38.9546, 77.973

41.406, 88.6694

GENE X4

Condition 1, Condition 2

45.2679, 64.6966

51.8034, 44.0377

47.9032, 71.47

57.1591, 54.3167

64.0903, 59.5785

54.1219, 43.9617

54.4119, 39.7977

53.8703, 16.7992

60.0649, 43.779

56.8218, 46.8667

GENE X5

Condition 1, Condition 2

96.0971, 67.7931

90.9218, 97.1712

88.1087,50.6327  
70.9958,43.7033  
73.0201,36.1719  
54.1461,57.5467  
76.6682,81.2292  
93.1517,74.6417  
75.8429,63.3028  
90.4123,43.3438

CE17B026

GENE X1

Condition 1, Condition 2

80.4406, 152.157

108.408, 158.847

92.4209, 120.555

91.1295, 102.592

84.9442, 115.001

107.512, 154.797

69.8462, 127.327

82.6336, 151.001

68.5325, 140.778

68.2259, 140.688

GENE X2

Condition 1, Condition 2

36.7318, 148.095

-8.24881, 61.8733

28.9019, 92.0965

20.9543, 92.7642

22.8268, 99.0909

-7.25137, 72.2548

26.243, 98.0029

21.5977, 75.5929

39.3502, 96.6945

18.2578, 95.4718

GENE X3

Condition 1, Condition 2

68.647, 130.489

83.1142, 181.537

60.9728, 146.44

81.657, 166.452

82.3464, 169.067

65.1732, 165.359

70.4554, 195.067

73.6766, 157.28

74.2013, 158.667

70.3911, 194.737

GENE X4

Condition 1, Condition 2

36.91, 209.351

21.3102, 205.932

45.945, 195.277

25.9382, 185.908

28.0717, 205.081

47.3845, 205.103

38.8721, 195.028

27.2245, 150.578

19.3223, 190.573

29.8359, 218.459

GENE X5

Condition 1, Condition 2

57.1439, 63.6453

56.6255, 81.0838

71.9523,102.729  
57.5757,52.2404  
86.2551,96.7889  
67.8033,117.408  
70.239,90.1758  
37.9439,90.433  
62.3072,96.1626  
62.7261,96.8483

CE17B029

GENE X1

Condition 1, Condition 2

74.9798, 133.215

70.3068, 170.756

79.6375, 137.98

69.0254, 172.119

86.3027, 166.029

72.0503, 105.803

83.9144, 189.171

72.2398, 155.956

72.8208, 206.157

94.4681, 149.707

GENE X2

Condition 1, Condition 2

13.4647, 43.0442

11.8655, 48.1823

37.3869, 41.3742

13.316, 48.0443

40.3375, 58.1076

23.49, 40.911

47.4814, 65.6745

28.6846, 40.6454

18.3359, 60.9624

14.7629, 45.8189

GENE X3

Condition 1, Condition 2

6.93764, 97.7862

13.6179, 112.071

4.77968, 113.038

12.2837, 137.138

11.9387, 140.315

18.216, 114.979

10.5729, 143.598

9.65297, 116.247

10.7689, 133.042

4.87483, 125.195

GENE X4

Condition 1, Condition 2

84.171, 115.515

71.539, 128.18

69.318, 114.591

69.6669, 95.1163

79.3749, 82.8473

72.6601, 112.998

69.583, 142.136

66.7184, 90.6917

74.7893, 111.107

87.0806, 123.795

GENE X5

Condition 1, Condition 2

47.6081, 111.242

43.0793, 91.5295

56.3716,91.0464  
41.4699,107.085  
42.7088,95.4247  
54.801,82.6701  
53.4835,95.0049  
53.0397,116.803  
39.4877,97.5806  
34.4703,98.8422

CE17B032

GENE X1

Condition 1, Condition 2

80.1589, 30.3923

89.7493, 56.0379

81.8507, 47.0613

84.1218, 47.0421

89.6673, 31.3741

76.2188, 48.4854

88.7735, 61.3471

76.7915, 29.9059

80.0327, 52.4344

84.9071, 75.0719

GENE X2

Condition 1, Condition 2

4.04746, 24.2885

7.29732, 48.3897

-3.8966, 49.2256

0.334022, 43.6746

0.984498, 47.9571

-1.62485, 53.696

-1.65397, 29.6295

4.27419, 61.3392

3.58156, 60.1783

-0.416903, 17.3809

GENE X3

Condition 1, Condition 2

121.185, 32.0079

111.329, 27.4035

102.968, 63.4873

95.0926, 38.9707

94.7124, 57.7411

110.288, 40.6635

97.2791, 21.6433

88.1579, 53.4812

91.303, 39.3122

81.1366, 40.7606

GENE X4

Condition 1, Condition 2

101.6, 175.297

94.2772, 176.454

93.8359, 149.257

94.506, 173.07

105.155, 172.711

84.9905, 186.696

88.5091, 165.695

88.4678, 168.548

89.5354, 154.832

83.4918, 168.468

GENE X5

Condition 1, Condition 2

37.5802, 115.931

31.3793, 105.058

30.8756,102.848  
25.6812,132.469  
40.6988,123.769  
32.8033,129.186  
27.0508,117.277  
27.5646,119.144  
35.0027,100.544  
19.4399,123.466

CE17B035

GENE X1

Condition 1, Condition 2

34.0312, 104.032

38.6202, 99.2238

19.8476, 98.3077

45.4132, 97.4379

52.7271, 96.5254

23.6683, 95.3307

20.8891, 92.8054

37.1528, 99.7659

39.2371, 97.7816

29.0042, 100.832

GENE X2

Condition 1, Condition 2

95.3513, 166.016

111.503, 175.681

73.6738, 175.373

99.4442, 174.833

99.2853, 167.369

104.57, 191.338

114.338, 171.079

81.0678, 166.59

89.7447, 171.973

92.4755, 153.76

GENE X3

Condition 1, Condition 2

37.9362, 105.392

36.6215, 110.144

37.5608, 94.9782

35.3258, 103.195

37.2952, 98.0803

32.8447, 132.2

37.6199, 96.5137

37.8178, 120.531

35.2251, 118.834

41.2558, 115.912

GENE X4

Condition 1, Condition 2

14.0827, 27.8626

12.0672, 56.9951

16.7747, 21.0275

14.1363, 50.5677

20.3228, 35.2956

21.9736, 77.8079

9.05152, 52.8027

20.6997, 75.971

16.5522, 42.9768

16.7411, 66.4572

GENE X5

Condition 1, Condition 2

81.2363, 180.985

64.9437, 186.01

67.4864,196.889  
60.2488,191.034  
72.2987,181.098  
91.709,201.614  
82.8239,186.579  
59.661,200.712  
66.8386,193.607  
75.3264,208.841

CE17B037

GENE X1

Condition 1, Condition 2

35.57, 84.2268

19.1138, 112.452

22.0181, 94.4927

22.6394, 88.2449

21.2714, 98.7226

24.7797, 71.3974

35.9254, 71.6639

21.3247, 98.6666

32.5404, 98.1086

39.7632, 135.36

GENE X2

Condition 1, Condition 2

-9.46462, 167.729

-0.327475, 137.335

17.1046, 125.856

16.8982, 153.767

4.47199, 171.854

-11.4576, 149.223

1.98315, 136.939

5.74224, 151.923

6.27835, 122.408

1.37988, 156.021

GENE X3

Condition 1, Condition 2

41.1158, 25.2052

46.6983, 12.6592

32.9032, 40.4163

15.1716, 31.8004

40.8772, 39.2276

69.8928, 21.996

41.6389, 8.33139

48.0395, 40.6738

28.7686, 38.9266

10.9804, 48.7043

GENE X4

Condition 1, Condition 2

78.9012, 161.641

72.4474, 149.785

84.6263, 144.681

62.8856, 156.892

94.545, 164.613

71.6839, 161.218

83.9958, 160.32

64.0662, 156.911

103.903, 147.635

69.6582, 156.754

GENE X5

Condition 1, Condition 2

30.7317, 104.614

28.1725, 140.248

7.05659,130.863  
38.6922,104.896  
9.85498,124.633  
23.8131,129.774  
31.6409,128.456  
26.6569,98.024  
16.1772,98.9721  
28.2351,148.906

CE17B040  
GENE X1  
Condition 1, Condition 2  
23.9562, 124.825  
20.2181, 113.13  
12.1204, 154.24  
26.3372, 162.563  
21.2755, 165.087  
17.8739, 170.674  
53.3896, 151.397  
16.5699, 160.547  
31.6225, 134.11  
21.4008, 153.647  
GENE X2  
Condition 1, Condition 2  
9.15346, 37.6935  
3.38033, 33.6171  
4.55755, 22.6042  
7.19601, 26.173  
-6.34746, -5.6683  
6.17695, 38.7929  
5.71238, 2.52299  
6.03894, 32.2753  
11.8484, 5.89128  
4.0881, 38.1809  
GENE X3  
Condition 1, Condition 2  
18.4642, 169.797  
19.8953, 172.729  
5.69643, 180.903  
11.4445, 162.281  
-4.46497, 163.56  
10.76, 152.245  
8.17643, 165.804  
-2.68771, 183.089  
17.9038, 161  
-9.65592, 144.345  
GENE X4  
Condition 1, Condition 2  
77.8136, 91.4856  
66.1281, 76.577  
42.1821, 89.3364  
53.1824, 94.5837  
52.4084, 82.9278  
30.7146, 82.363  
63.0152, 81.4532  
41.9177, 80.4755  
78.6921, 92.8051  
63.3619, 70.5773  
GENE X5  
Condition 1, Condition 2  
16.9036, 74.5419  
12.4508, 68.7921

-2.30904,81.7653  
25.9184,95.1414  
8.89366,79.4543  
-3.14958,88.0251  
10.7076,91.0583  
5.45784,72.5235  
-1.48906,83.5368  
27.4576,75.9099

CE17B042

GENE X1

Condition 1, Condition 2

33.9142, 130.224

40.294, 132.265

28.3236, 136.812

41.4178, 131.524

38.4958, 118.284

49.3052, 115.009

34.2746, 113.853

33.4341, 124.594

35.0096, 128.396

40.7549, 133.644

GENE X2

Condition 1, Condition 2

22.3428, 136.708

14.2333, 122.271

-10.171, 126.654

9.17423, 139.69

4.52042, 133.97

7.66692, 124.832

15.8511, 152.011

-1.20681, 93.923

4.7784, 107.017

5.79976, 134.989

GENE X3

Condition 1, Condition 2

101.858, 190.288

85.5731, 187.493

84.8184, 187.995

105.31, 185.453

85.7378, 195.857

81.9605, 187.352

94.0539, 185.601

108.312, 198.89

89.9878, 201.109

91.4961, 191.16

GENE X4

Condition 1, Condition 2

95.6484, 75.386

96.5386, 59.763

86.2488, 89.66

95.1229, 69.9225

91.85, 44.6198

105.705, 94.7543

98.3912, 51.8906

108.443, 77.957

96.8534, 52.9403

102.913, 61.0509

GENE X5

Condition 1, Condition 2

22.1285, 39.7434

32.7463, 17.9556

23.3722,30.6392  
15.933,22.8534  
34.3559,31.8663  
22.063,17.1441  
32.1868,26.7812  
25.4178,46.3643  
21.4136,51.5518  
30.964,39.3159

CE17B045

GENE X1

Condition 1, Condition 2

46.8566, 165.47

63.4904, 164.265

62.7552, 169.92

61.945, 162.553

61.3876, 176.177

42.911, 153.686

68.7903, 169.527

78.7825, 184.852

53.4425, 174.659

73.4337, 168.007

GENE X2

Condition 1, Condition 2

18.3839, 143.076

37.1794, 138.128

29.6986, 131.737

21.3056, 129.247

21.2658, 161.73

34.9121, 116.501

24.5941, 125.853

18.1732, 151.107

34.5941, 120.613

24.765, 142.575

GENE X3

Condition 1, Condition 2

109.842, 12.601

94.6411, 35.8803

75.2662, 12.311

85.073, 53.7635

80.1105, 36.2878

84.3134, 41.1657

96.4584, 66.036

82.7426, 53.4746

103.568, 21.5423

77.8583, 29.8484

GENE X4

Condition 1, Condition 2

22.5289, 6.98019

16.4611, 55.2288

31.0438, 34.3477

17.3865, 40.664

24.4994, 40.0051

21.15, 72.7975

21.0519, 46.0412

31.6446, 36.9691

21.6242, 1.17048

19.2218, 32.3667

GENE X5

Condition 1, Condition 2

103.528, 191.638

75.6392, 199.208

87.3944,186.096  
73.8457,216.294  
93.1016,154.381  
89.1695,186.53  
95.5549,255.974  
94.8321,218.579  
97.3308,191.901  
83.0976,171.228

CE17B047

GENE X1

Condition 1, Condition 2

61.4391, 141.564

37.1535, 140.604

63.4352, 129.888

60.5104, 141.283

46.0425, 108.925

46.5031, 113.24

61.1211, 116.379

50.8539, 139.496

65.3915, 189.235

45.7152, 156.693

GENE X2

Condition 1, Condition 2

-12.725, 65.3727

12.0506, 58.6371

-0.159574, 80.4778

2.98391, 48.6207

12.92, 80.852

6.73072, 85.4476

10.8156, 45.1499

6.67078, 23.8817

4.4874, 43.7728

15.0102, 49.0028

GENE X3

Condition 1, Condition 2

41.2119, 181.41

51.2871, 175.573

19.7674, 169.162

23.2303, 153.73

45.1462, 118.602

55.4516, 159.936

72.19, 186.372

18.7191, 146.179

51.8328, 93.9166

40.795, 145.427

GENE X4

Condition 1, Condition 2

59.3249, 123.266

65.2915, 177.396

56.7273, 129.338

79.0628, 138.164

87.5046, 130.597

85.8834, 138.581

71.8002, 121.093

68.5832, 111.588

69.1924, 122.746

82.742, 111.533

GENE X5

Condition 1, Condition 2

14.5347, 122.854

17.4848, 143.941

37.5634,135.469  
14.0935,158.091  
37.0632,112.981  
38.0622,118.393  
25.4879,111.521  
46.3177,94.2615  
24.6145,117.618  
47.3814,142.408

CE17B050

GENE X1

Condition 1, Condition 2

100.477,141.746

94.4741,178.111

100.308,165.369

76.3767,162.827

66.1318,146.768

80.3731,144.254

95.6409,171.571

89.739,169.565

78.6773,151.022

90.7853,176.343

GENE X2

Condition 1, Condition 2

60.1476,26.9176

56.4184,37.1389

73.247,46.5125

64.9642,7.99583

63.1332,26.0168

76.9841,35.7761

77.2683,84.5805

70.8459,22.9869

86.9611,43.0994

79.5509,67.753

GENE X3

Condition 1, Condition 2

0.945988,49.7947

-1.98879,29.7537

-9.44106,32.2109

8.99931,25.1517

-4.99067,79.1678

3.99832,69.5586

3.61514,49.9809

-2.34838,40.8657

-3.20351,31.7502

-7.92914,29.5586

GENE X4

Condition 1, Condition 2

87.5223,154.346

95.2739,163.193

84.8727,142.478

95.2476,157.836

80.8315,166.036

86.7071,167.977

74.2373,150.747

77.4039,149.925

82.2127,150.802

87.5102,142.349

GENE X5

Condition 1, Condition 2

39.0303,122.431

3.12294,116.821

45.7863,83.2512  
20.529,145.006  
35.4642,115.402  
35.4883,91.9527  
17.5711,103.884  
21.4107,87.6508  
28.6422,112.691  
14.7065,115.4

CE17B051  
GENE X1  
Condition 1, Condition 2  
32.4775, 189.914  
2.16213, 196.204  
4.12205, 188.235  
9.8223, 168.046  
28.6393, 188.5  
16.9397, 180.6  
19.7608, 181.363  
15.056, 191.678  
27.7971, 188.089  
34.0873, 188.391  
GENE X2  
Condition 1, Condition 2  
48.9879, 180.743  
34.2652, 176.197  
37.6747, 173.582  
25.1437, 158.121  
24.0905, 179.563  
47.5159, 164.021  
37.9768, 150.655  
33.6243, 162.762  
35.8142, 199.836  
44.6814, 171.94  
GENE X3  
Condition 1, Condition 2  
33.3715, 150.015  
44.7898, 146.537  
46.1739, 163.47  
20.7324, 140.442  
39.6369, 136.428  
63.0246, 164.963  
42.4399, 189.003  
31.802, 120.248  
20.8091, 144.943  
29.0395, 169.075  
GENE X4  
Condition 1, Condition 2  
72.9622, 131.261  
76.143, 80.3471  
69.7656, 114.759  
78.7625, 118.035  
72.867, 106.229  
76.5806, 109.941  
80.5157, 125.484  
77.3087, 116.638  
73.9326, 115.729  
69.95, 117.941  
GENE X5  
Condition 1, Condition 2  
46.6367, 131.571  
44.4748, 125.459

40.5736,74.4212  
56.0199,117.453  
42.9157,153.631  
56.3549,83.16  
55.3599,125.88  
59.5725,121.109  
48.5949,123.774  
36.6522,124.125

CE17B054

GENE X1

Condition 1, Condition 2

73.1925, 31.8098

54.9543, -15.7597

53.6236, -7.56642

54.0685, -2.49254

71.744, -10.9013

74.8694, -16.644

71.6996, 3.10437

57.3336, -12.3722

66.5595, 10.2619

62.6822, 25.5245

GENE X2

Condition 1, Condition 2

59.0693, 68.4395

55.4856, 70.435

62.8613, 72.4721

71.4694, 95.3873

57.9723, 67.7008

57.0101, 43.8558

57.9207, 75.6463

57.1482, 70.575

48.3749, 68.9877

47.1964, 64.535

GENE X3

Condition 1, Condition 2

84.5202, 104.201

67.2476, 187.589

46.102, 100.951

88.6376, 68.4548

95.2202, 105.269

58.0783, 111.032

75.4975, 89.9995

68.2869, 99.1254

89.3022, 120.591

88.6804, 108.824

GENE X4

Condition 1, Condition 2

54.0563, 39.0463

81.612, 24.3638

81.169, 7.28313

77.4368, 45.088

90.9255, 60.4484

64.7022, 18.6582

61.6393, 22.1043

65.6166, 72.1802

62.745, 5.13628

75.0586, 57.219

GENE X5

Condition 1, Condition 2

21.5204, 153.078

17.5168, 163.58

10.9917,144.17  
-1.96651,139.033  
17.4718,168.52  
26.9869,171.592  
18.0512,157.177  
9.62441,154.244  
26.0307,156.472  
14.0207,151.253

CE17B055

GENE X1

Condition 1, Condition 2

12.0041, 177.784

15.406, 169.99

27.8866, 171.457

7.68886, 176.304

26.919, 173.576

31.1274, 169.238

17.0825, 174.608

12.9628, 167.525

6.32629, 177.68

19.5152, 164.272

GENE X2

Condition 1, Condition 2

35.2036, -5.21432

11.0143, 16.7068

39.4896, 32.0057

22.0903, 20.5357

34.6977, -1.05501

24.1128, 10.5832

24.6144, 10.3505

30.0278, 27.551

22.869, 17.508

27.2686, 18.251

GENE X3

Condition 1, Condition 2

69.4418, 50.9433

93.3759, 51.9964

75.9821, 63.6894

85.5255, 62.5953

102.367, 58.1268

81.4958, 65.4439

69.4787, 46.1206

84.3738, 59.6068

86.5366, 47.2094

80.8937, 50.1222

GENE X4

Condition 1, Condition 2

58.0373, 194.932

59.683, 181.282

78.571, 192.068

51.0224, 168.061

38.874, 163.442

71.8017, 196.839

80.0865, 190.328

58.8291, 194.662

76.0721, 139.966

72.4533, 191.88

GENE X5

Condition 1, Condition 2

54.8694, 59.6359

52.0019, 68.3136

29.6495,66.9741  
68.1694,52.2793  
70.1743,51.5885  
52.4473,75.0168  
62.2919,98.743  
49.5449,117.41  
60.9736,74.2969  
49.4436,65.0142

CE17B056

GENE X1

Condition 1, Condition 2

47.81, 174.982

55.7429, 128.439

22.6099, 142.021

42.6475, 137.552

31.1365, 166.787

40.2106, 106.316

37.3329, 143.47

42.0462, 139.997

33.9333, 138.104

39.2209, 140.253

GENE X2

Condition 1, Condition 2

23.1932, 77.4512

44.6146, 43.1351

51.4343, 76.2345

35.2418, 58.9623

50.8408, 50.6626

40.4537, 52.6745

42.2805, 36.7107

40.1087, 91.0221

26.5232, 102.542

44.709, 92.1225

GENE X3

Condition 1, Condition 2

33.4629, 119.315

17.7237, 154.786

26.8864, 119.514

28.9791, 170.52

2.2493, 138.508

2.02097, 130.858

23.6594, 139.821

22.9735, 165.373

19.3881, 149.588

-3.03987, 145.606

GENE X4

Condition 1, Condition 2

12.3185, 192.495

8.19486, 170.297

-19.5116, 166.227

-7.63517, 175.406

2.01501, 148.201

-15.253, 198.773

-4.14802, 184.022

3.99429, 165.095

-3.75913, 191.319

-1.25047, 180.891

GENE X5

Condition 1, Condition 2

64.0984, 34.2638

27.6339, 59.1485

68.1835,16.5225  
43.9262,36.145  
66.7615,32.9297  
34.5756,32.3142  
38.1056,28.1022  
18.1796,34.0115  
38.7883,38.1502  
42.1617,40.4429

CE17B057

GENE X1

Condition 1, Condition 2

78.4507, 116.238

81.1223, 114.551

80.1239, 141.458

76.6766, 100.619

82.6626, 106.466

79.5122, 95.1759

78.8216, 119.109

80.0049, 110.203

80.6509, 103.927

82.5928, 116.493

GENE X2

Condition 1, Condition 2

76.5249, 83.247

75.4775, 96.2386

80.7574, 44.7399

72.6317, 91.2641

86.2581, 94.8389

63.0935, 82.4323

78.8106, 108.97

65.7971, 88.4812

64.4733, 89.411

80.0911, 68.6783

GENE X3

Condition 1, Condition 2

27.2438, 141.414

-6.83225, 130.316

22.425, 118.265

23.6391, 138.212

12.0163, 151.852

23.8079, 105.864

18.4433, 127.392

21.5655, 148.154

11.6446, 126.97

27.0925, 136.088

GENE X4

Condition 1, Condition 2

88.1128, 170.241

91.2364, 189.643

95.6924, 181.283

94.2651, 168.427

95.0898, 174.595

81.4348, 175.023

89.5613, 189.88

107.428, 185.028

102.874, 187.136

115.524, 176.932

GENE X5

Condition 1, Condition 2

71.1502, 201.573

123.426, 140.911

91.5764,141.212  
97.8577,168.823  
80.9476,219.078  
46.2348,220.327  
53.9047,185.251  
61.5866,192.149  
72.4772,199.436  
54.8288,176.942

CE17B058

GENE X1

Condition 1, Condition 2

63.2552, 47.4606

54.8362, 49.0336

64.0124, 45.7383

59.0094, 54.6837

75.0803, 68.3316

54.1956, 52.3103

64.9116, 48.7787

58.5974, 40.8251

76.7336, 45.8505

73.7393, 37.8627

GENE X2

Condition 1, Condition 2

29.804, 47.3528

12.7607, 53.2476

30.2657, 64.8095

11.8644, 58.9986

34.1021, 62.8217

35.9486, 60.0669

20.5302, 44.5773

22.6176, 24.061

32.0921, 47.253

18.7956, 43.6728

GENE X3

Condition 1, Condition 2

49.3836, 173.338

44.177, 205.812

49.5869, 194.956

55.8883, 158.952

47.9824, 178.56

42.5479, 172.78

41.9654, 196.454

41.0642, 190.037

75.5719, 192.085

53.3662, 170.555

GENE X4

Condition 1, Condition 2

8.20007, 82.1396

2.37107, 87.5716

3.89731, 73.074

3.55977, 85.0634

11.5558, 61.9887

8.56322, 68.1014

-9.7198, 51.5562

-3.02799, 59.3497

4.36341, 73.1216

-0.336037, 73.6504

GENE X5

Condition 1, Condition 2

72.748, 150.728

112.951, 176.625

76.9867,191.647  
98.8721,167.978  
53.1135,105.132  
88.7384,145.874  
99.42,198.386  
114.756,133.943  
84.8722,166.603  
78.3178,172.474

CE17B059

GENE X1

Condition 1, Condition 2

22.1369, 95.3351

14.8661, 58.5316

22.9861, 74.1136

13.9373, 58.1832

13.7763, 69.8969

39.1159, 86.3127

15.9542, 27.7402

30.2933, 51.0787

26.1249, 73.4525

18.6356, 70.5697

GENE X2

Condition 1, Condition 2

-9.204, 71.252

8.51521, 70.4154

-0.0906348, 88.3533

1.0088, 74.6442

6.21545, 74.6961

8.34711, 80.9294

5.46113, 73.1343

11.3153, 81.7883

14.2733, 72.1808

7.81315, 70.9356

GENE X3

Condition 1, Condition 2

61.1822, 18.3547

59.9656, 60.1899

39.332, 21.8629

84.5707, 73.308

66.2997, 38.8045

13.222, 53.3131

49.519, 53.8833

69.8806, 13.9432

52.8169, 77.6696

64.9392, 34.2293

GENE X4

Condition 1, Condition 2

64.3723, 142.486

60.8055, 152.752

69.8139, 178.274

64.4652, 167.661

72.1228, 165.443

60.544, 184.269

62.9967, 186.368

59.9474, 185.782

68.9546, 182.064

66.4828, 169.033

GENE X5

Condition 1, Condition 2

77.988, 149.983

83.3569, 133.705

63.4127,156.661  
46.5225,141.386  
73.0853,149.622  
59.4628,145.115  
51.9742,156.593  
46.2249,151.609  
64.1422,157.851  
75.1745,149.022

CE17B101

GENE X1

Condition 1, Condition 2

33.5636, 83.7661

37.1399, 102.459

34.5374, 98.5779

23.7888, 106.216

34.5526, 87.2184

46.4053, 78.9765

36.3446, 107.256

29.9802, 76.8187

34.7741, 85.8242

32.6717, 98.3255

GENE X2

Condition 1, Condition 2

-11.0473, 54.8701

10.4737, 45.5947

23.5732, 47.4816

23.022, 42.3416

11.3751, 52.8476

13.3832, 37.389

-5.3637, 48.7958

33.5995, 23.3035

2.5869, 28.4084

-2.26947, 64.5998

GENE X3

Condition 1, Condition 2

44.2962, 34.8731

56.7839, 32.5452

43.777, 44.9108

34.8488, 39.5587

49.1545, 39.9505

44.9885, 38.5123

33.0725, 38.0965

33.2958, 64.6785

42.5361, 75.3023

33.1007, 49.0932

GENE X4

Condition 1, Condition 2

101.259, 69.7143

87.2849, 34.3454

89.2601, 50.6285

119.066, 51.697

88.119, 72.5303

103.105, 49.4277

109.157, 94.6381

108.293, 50.692

80.0778, 60.2662

85.9179, 56.914

GENE X5

Condition 1, Condition 2

80.4248, 80.8427

61.7539, 65.4355

81.0211,83.0099  
68.5382,60.09  
71.3032,56.9407  
54.6672,62.9032  
57.3137,73.2117  
62.9859,51.1046  
56.3469,74.0208  
79.3132,82.7455

CE17B102

GENE X1

Condition 1, Condition 2

90.1537, 0.795441

51.876, -3.53194

70.8047, 10.1337

68.721, 8.6433

49.2813, 36.0487

74.7608, -19.6832

82.51, 8.48509

82.4469, -2.6364

79.4651, 8.64009

61.2953, 5.63704

GENE X2

Condition 1, Condition 2

63.2323, 85.6015

72.5331, 33.2379

60.8596, 46.6726

64.1804, 49.0258

73.5344, 49.2757

47.7262, 86.559

80.1959, 64.6335

53.5643, 28.7566

82.8018, 51.3464

70.531, 36.8205

GENE X3

Condition 1, Condition 2

7.16741, 51.7069

-16.0011, 71.1047

9.54159, 61.8665

17.5145, 78.0005

-0.240445, 57.3225

11.0339, 28.2905

-3.5307, 42.5207

4.18454, 59.1096

-21.5758, 42.8079

14.2248, 64.7512

GENE X4

Condition 1, Condition 2

-3.3152, 149.603

29.1858, 167.052

15.1704, 133.554

0.125315, 174.001

28.041, 146.137

0.127045, 183.799

15.7359, 139.364

32.8635, 159.797

14.5372, 142.816

20.1615, 147.149

GENE X5

Condition 1, Condition 2

77.5221, 109.179

66.712, 62.1935

72.3679,75.0315  
89.1705,62.5244  
88.8787,104.284  
92.842,59.7578  
97.6966,97.3309  
89.0737,110.442  
60.3531,76.5829  
102.023,87.3049

CE17B103

GENE X1

Condition 1, Condition 2

12.1417, 145.254

10.1969, 117.463

7.42542, 94.8616

9.4247, 77.2137

14.2887, 73.4451

21.8571, 135.43

9.84161, 115.087

-2.19995, 109.472

14.1823, 68.8206

19.4518, 92.3042

GENE X2

Condition 1, Condition 2

73.5816, 85.9832

50.1287, 82.1759

64.631, 84.3051

47.4608, 82.3588

72.7874, 130.343

46.1788, 124.203

31.2983, 96.587

52.3019, 111.06

50.1064, 86.9567

41.9528, 89.3205

GENE X3

Condition 1, Condition 2

16.1548, 166.369

39.4279, 166.519

29.8176, 167.244

43.1029, 169.416

23.3658, 190.884

31.5086, 166.775

44.8815, 191.517

54.178, 165.097

16.3097, 178.649

54.2053, 158.628

GENE X4

Condition 1, Condition 2

22.1495, 65.887

4.37623, 56.6393

13.6923, 38.3619

-24.5099, 27.3107

-11.3227, 37.6457

-1.72904, 33.4688

7.91987, 50.8057

-26.6621, 20.8414

5.75892, 53.7308

22.1337, 31.5189

GENE X5

Condition 1, Condition 2

77.633, 91.8162

36.4194, 93.3825

68.0292,77.6742  
60.6585,73.0602  
36.5018,69.7825  
54.4227,84.4344  
84.6801,78.5244  
51.7302,89.357  
48.6612,71.1828  
34.8345,90.9724

CE17B104

GENE X1

Condition 1, Condition 2

52.0592, 44.4499

25.9525, 65.5511

77.7402, 65.6769

48.337, 58.7684

47.9071, 56.0349

46.1542, 89.8184

51.8277, 65.8722

67.0405, 41.8023

67.0906, 66.9789

25.4861, 61.3153

GENE X2

Condition 1, Condition 2

37.2781, 166.759

27.8542, 167.273

37.0093, 167.378

25.6677, 145.676

50.3643, 171.698

45.5968, 176.03

55.0202, 143.571

23.8748, 156.832

64.7152, 163.448

42.129, 170.299

GENE X3

Condition 1, Condition 2

-10.0542, 51.4529

22.8791, 17.2188

14.5557, 72.6184

15.9871, 46.9532

47.8315, 19.481

-2.06155, 18.8667

21.5701, 13.5079

18.1814, 48.5098

13.907, 59.7797

17.9252, 41.759

GENE X4

Condition 1, Condition 2

16.4681, 83.3974

19.3426, 111.481

18.5134, 103.572

16.1527, 89.8594

17.592, 91.9394

16.2178, 81.3916

16.238, 84.5153

14.0259, 95.3956

15.6195, 123.718

18.4126, 77.2464

GENE X5

Condition 1, Condition 2

65.7366, 34.623

50.47, 50.3972

72.4241,37.248  
58.2471,34.3089  
63.0927,43.1023  
51.0366,9.30939  
82.7308,33.2835  
39.4999,16.7996  
85.4755,65.1842  
39.6568,36.7544

CE17B110

GENE X1

Condition 1, Condition 2

7.72039, 71.2132

10.6791, 34.1127

12.015, 65.029

10.0382, 59.3759

-0.951578, 53.7703

18.3232, 39.5345

19.9506, 56.7263

-13.6492, 77.2898

-5.81475, 40.8726

-27.1917, 37.7857

GENE X2

Condition 1, Condition 2

20.5207, 125.518

33.105, 98.5799

25.896, 101.661

30.4504, 116.32

21.6079, 125.453

26.9135, 109.143

23.5885, 131.846

33.9293, 132.857

33.1115, 122.692

24.0763, 102.24

GENE X3

Condition 1, Condition 2

20.0657, 164.525

17.6286, 155.119

38.3389, 141.704

45.3694, 120.15

70.0099, 162.33

50.0238, 144.175

46.9211, 139.108

46.374, 164.117

45.719, 146.094

34.8335, 133.894

GENE X4

Condition 1, Condition 2

43.3077, 43.5731

92.7798, 49.4437

55.6802, 53.9395

66.6698, 47.9086

76.1961, 37.984

40.2724, 47.6664

56.6868, 43.4987

58.5983, 33.4173

38.6408, 51.6766

47.6897, 46.8722

GENE X5

Condition 1, Condition 2

51.7478, 117.727

44.6605, 102.497

58.1429,113.434  
72.5446,80.9353  
69.5201,101.764  
21.1915,81.1652  
53.8828,101.045  
61.2253,94.4546  
42.6899,95.6539  
58.8443,99.1053

CE17B112

GENE X1

Condition 1, Condition 2

58.2077, 76.719

37.8334, 69.6594

49.7749, 70.4277

61.9404, 46.0794

59.1571, 65.0218

23.9196, 45.8463

58.6371, 32.6417

5.25713, 51.6434

14.9921, 71.6764

34.8569, 68.4815

GENE X2

Condition 1, Condition 2

-19.4301, 94.3324

3.00842, 93.7549

-17.4569, 81.2847

28.1183, 72.6266

-4.57347, 84.0978

-15.0531, 75.5457

16.5892, 78.3447

-8.46059, 80.0817

14.5109, 60.025

4.62449, 61.1071

GENE X3

Condition 1, Condition 2

16.288, 198.79

12.3969, 207.425

13.6556, 199.897

23.0715, 194.318

21.0345, 195.047

7.81195, 182.079

19.7948, 179.205

18.0675, 187.528

5.29658, 191.531

26.0286, 179.464

GENE X4

Condition 1, Condition 2

88.5111, 103.672

66.238, 107.163

80.9927, 108.353

63.0625, 68.9655

96.1064, 123.48

88.9602, 121.199

109.937, 141.632

86.7276, 193.065

72.7142, 71.4634

83.0981, 102.164

GENE X5

Condition 1, Condition 2

42.5528, 98.6988

24.8179, 108.79

28.3379,104.039  
25.8861,77.8223  
47.1366,98.2908  
29.1894,84.4962  
38.8338,101.662  
48.3177,110.472  
32.8041,98.5865  
30.3803,79.5926

CE17B114

GENE X1

Condition 1, Condition 2

86.4374, 170.769

113.534, 197.07

110.303, 169.412

82.2024, 173.835

95.7185, 216.105

97.1965, 202.522

99.1389, 207.294

82.3976, 213.203

98.8278, 150.281

91.2601, 195.573

GENE X2

Condition 1, Condition 2

100.443, 41.6454

97.572, 55.1432

110.686, 26.2851

72.1211, 75.5613

92.865, 21.4824

99.3019, 21.0849

86.0041, 62.649

110.861, 52.84

94.0912, 49.3668

97.6925, 59.24

GENE X3

Condition 1, Condition 2

5.19574, 160.379

35.9268, 177.9

19.6426, 145.652

32.0703, 163.061

35.9425, 204.138

24.3339, 125.353

5.04007, 187.386

27.9085, 136.78

42.6084, 161.402

60.4432, 179.361

GENE X4

Condition 1, Condition 2

16.0507, 20.2639

13.5321, 17.1478

22.6607, 41.1705

7.16628, 66.4603

0.898467, 14.333

22.2126, -10.3061

2.89275, 25.3007

33.2348, 0.210779

29.8887, 33.5086

35.5977, 40.1123

GENE X5

Condition 1, Condition 2

33.4273, 38.7509

16.3734, 40.0043

40.4571,46.0646  
35.7012,29.5874  
29.803,30.0033  
31.4614,33.8138  
50.7434,27.2796  
39.8955,43.9124  
47.5447,39.4388  
53.0778,46.0339

CE17B116

GENE X1

Condition 1, Condition 2

1.98257, 35.3056

21.273, -7.66714

20.0505, 11.4001

5.7239, 13.0556

29.5659, 5.06768

12.1328, 11.8623

6.87266, -18.2298

8.60661, -14.846

10.5048, 19.9883

27.9086, 31.1653

GENE X2

Condition 1, Condition 2

60.5058, 133.901

53.9755, 148.971

40.244, 142.443

65.6448, 128.391

29.5977, 109.031

71.2415, 130.729

56.2361, 130.042

48.0555, 157.766

37.4631, 164.47

63.7028, 134.213

GENE X3

Condition 1, Condition 2

74.1984, 173.251

75.903, 162.25

83.0137, 174.012

80.029, 175.324

84.6922, 185.322

84.0456, 138.542

77.0126, 195.162

76.9015, 215.576

84.0035, 183.936

80.6819, 165.576

GENE X4

Condition 1, Condition 2

33.7371, 134.513

39.0943, 161.823

22.4725, 159.614

27.4703, 171.545

25.7859, 167.567

28.2505, 138.912

34.2045, 147.649

48.4383, 134.349

10.088, 120.592

33.4832, 143.582

GENE X5

Condition 1, Condition 2

87.1571, 60.4579

91.5016, 32.2235

73.4784,45.4689  
89.0927,40.0778  
97.6555,27.7695  
88.4227,42.5163  
73.5888,52.7957  
75.4397,44.5595  
84.2085,38.376  
76.5169,40.8036

CE17B118

GENE X1

Condition 1, Condition 2

91.7858, 82.2297

91.4105, 99.396

82.7782, 92.1994

91.5847, 106.473

86.908, 110.371

76.3822, 72.568

57.0782, 93.6744

92.3901, 89.9166

69.3458, 132.179

75.6024, 85.7315

GENE X2

Condition 1, Condition 2

39.5177, 67.8654

28.7564, 43.4674

29.8603, 53.2932

21.3649, 57.8562

22.799, 66.4916

37.5605, 49.8579

29.1586, 53.719

36.2849, 49.2787

47.9391, 51.7077

45.4117, 44.1534

GENE X3

Condition 1, Condition 2

72.0259, -11.1933

76.8803, 8.07979

62.9829, 5.76782

79.9694, 4.826

79.6855, -35.8802

76.9007, 11.7675

64.4582, 24.8464

82.3951, 9.28802

69.9335, -0.24395

80.1553, 26.4476

GENE X4

Condition 1, Condition 2

14.8466, 124.52

19.3275, 120.506

5.24092, 120.519

13.8931, 113.85

21.5147, 121.039

11.6992, 111.662

4.04268, 124.212

12.7088, 135.768

9.55256, 111.281

20.2278, 146.598

GENE X5

Condition 1, Condition 2

53.691, 104.505

56.6759, 71.4165

73.7581,105.396  
88.1837,94.8033  
109.688,85.0707  
95.5666,79.9213  
100.312,91.2075  
104.053,80.9074  
56.7947,98.1197  
104.582,89.3802

CE17B120

GENE X1

Condition 1, Condition 2

14.7466, 152.927

39.0214, 77.5137

18.3067, 127.371

31.0192, 124.167

14.7964, 107.449

26.6623, 100.863

11.93, 136.014

5.39258, 91.2202

-12.0155, 167.585

20.4689, 133.477

GENE X2

Condition 1, Condition 2

61.9797, 149.823

54.6194, 152.933

58.2698, 177.447

60.6815, 179.319

61.4957, 128.35

52.7973, 160.907

56.3049, 147.627

54.1994, 189.109

55.5755, 166.613

60.9018, 186.648

GENE X3

Condition 1, Condition 2

32.466, 130.295

65.5472, 115.754

62.145, 135.352

67.2195, 139.978

58.7721, 141.311

52.6448, 116.733

81.6928, 141.873

49.7108, 125.569

52.6081, 136.86

49.0895, 125.632

GENE X4

Condition 1, Condition 2

90.1894, 132.97

91.6926, 138.338

90.0833, 147.626

88.8643, 128.946

91.8731, 134.363

92.5965, 154.966

93.4844, 135.901

94.8673, 148.243

92.3334, 140.542

92.5598, 144.25

GENE X5

Condition 1, Condition 2

52.8932, 118.635

58.9836, 122.12

50.758,130.552  
56.4043,118.43  
55.4282,120.781  
51.9214,114.139  
57.8333,122.956  
53.4136,127.004  
55.1727,134.838  
46.2454,116.964

CE17B121  
GENE X1  
Condition 1, Condition 2  
5.94335, 168.248  
-8.38517, 144.561  
2.75006, 123.857  
4.02236, 151.801  
14.4616, 158.528  
-6.88601, 127.427  
11.7788, 125.139  
-10.2457, 139.025  
3.5079, 149.237  
5.33813, 143.412  
GENE X2  
Condition 1, Condition 2  
25.3944, 32.3183  
35.9786, 42.8953  
-17.4563, 32.8981  
42.9434, 14.8487  
25.8135, 21.3996  
22.2562, 44.1381  
6.04837, 13.5551  
12.2981, 11.1221  
12.9258, 24.0849  
17.2144, 28.756  
GENE X3  
Condition 1, Condition 2  
32.163, 50.2157  
36.6606, 109.463  
57.2201, 105.387  
72.1681, 91.1945  
40.1935, 86.5409  
42.8869, 92.1249  
79.4143, 79.8296  
57.8098, 79.8009  
57.759, 86.924  
44.0051, 98.2651  
GENE X4  
Condition 1, Condition 2  
15.0428, 46.0016  
27.1103, 55.8013  
20.7305, 62.2937  
17.8299, 48.3205  
18.4807, 41.2368  
20.1483, 63.2891  
3.99995, 45.5035  
-0.34473, 39.2641  
16.1381, 57.8747  
30.1775, 40.299  
GENE X5  
Condition 1, Condition 2  
44.0616, 191.166  
31.6773, 191.576

39.5298,181.708  
54.1071,208.193  
52.5117,218.186  
43.3563,203.901  
55.8229,185.101  
52.6436,211.847  
69.7143,198.554  
66.9564,198.262

CE17B122

GENE X1

Condition 1, Condition 2

17.3023, 99.7602

17.5667, 90.0492

20.3225, 111.71

29.44, 98.576

21.6305, 92.6215

18.2357, 98.9941

30.0801, 102.308

18.1953, 103.435

15.3886, 82.8044

19.1462, 98.8812

GENE X2

Condition 1, Condition 2

63.5694, 13.0794

76.3727, -16.0727

76.0147, 54.2684

91.6392, 59.107

77.2051, 4.04832

76.1525, 57.6817

63.3676, 42.9952

78.8944, 36.4832

64.1462, 33.7518

92.7767, 31.1011

GENE X3

Condition 1, Condition 2

37.547, 136.193

37.45, 126.862

17.306, 159.244

55.2788, 119.524

41.72, 154.27

50.3708, 124.801

40.7922, 171.489

37.3461, 180.032

46.5624, 149.114

44.9941, 113.174

GENE X4

Condition 1, Condition 2

30.4539, 90.2312

18.3149, 56.5162

12.79, 43.2901

46.3854, 99.3078

31.8522, 99.4407

19.3408, 39.8685

33.5648, 44.5382

42.5226, 75.1334

44.7385, 63.7311

53.304, 57.9922

GENE X5

Condition 1, Condition 2

83.5857, 149.258

100.295, 107.079

91.7303,96.4809  
95.8857,137.287  
112.124,112.848  
83.3234,143.411  
84.5086,68.3173  
82.0718,98.4341  
87.1723,104.608  
91.9409,136.6

CE17B123  
GENE X1  
Condition 1, Condition 2  
2.17455, 79.6938  
0.478838, 49.8881  
-3.48671, 57.8565  
10.1155, 79.5903  
-6.64071, 57.8024  
4.75175, 73.3595  
14.0609, 52.1122  
-22.4795, 61.4582  
3.31014, 75.7969  
7.08533, 37.9416  
GENE X2  
Condition 1, Condition 2  
89.0217, 117.043  
71.7009, 129.024  
110.156, 161.32  
83.2981, 147.977  
67.862, 159.288  
83.1964, 155.544  
67.1702, 126.434  
68.9788, 130.758  
61.0476, 121.613  
72.1727, 136.993  
GENE X3  
Condition 1, Condition 2  
83.0873, 174.404  
94.3356, 159.382  
86.0161, 190.524  
79.2431, 171.879  
76.1742, 191.805  
72.7921, 181.679  
83.5627, 203.074  
86.1541, 196.1  
57.2454, 166.967  
72.1174, 196.29  
GENE X4  
Condition 1, Condition 2  
65.2605, 51.8821  
50.5227, 42.2714  
30.9457, 23.4388  
86.2143, 47.4188  
77.5433, 46.7456  
35.3872, 18.4935  
81.4102, 57.1048  
52.6458, 50.2521  
53.3389, 31.5394  
59.9994, 52.1297  
GENE X5  
Condition 1, Condition 2  
29.5166, 72.5526  
30.7713, 86.0391

40.1507,100.172  
24.5337,92.0128  
21.7645,129.01  
14.8571,104.57  
16.4499,112.9  
22.0389,91.0655  
21.2476,116.903  
26.4927,103.123

CE17B125  
GENE X1  
Condition 1, Condition 2  
53.9442, 80.923  
91.1073, 81.1838  
74.6, 67.8229  
67.2716, 63.9733  
66.2649, 74.4401  
85.8847, 82.5442  
78.5714, 70.4819  
92.5817, 82.3822  
62.7888, 79.046  
46.1657, 88.0158  
GENE X2  
Condition 1, Condition 2  
17.737, 18.8916  
27.4978, 33.8879  
17.9062, 20.6372  
34.0481, 48.0153  
16.9788, 21.4287  
40.7818, 11.1697  
16.4006, 36.5443  
14.0024, 16.6546  
27.7338, 31.3968  
30.8209, 24.4176  
GENE X3  
Condition 1, Condition 2  
63.6609, 156.707  
64.932, 158.003  
76.7471, 171.853  
88.8665, 171.971  
77.5273, 172.1  
113.278, 162.148  
101.348, 166.873  
85.3869, 155.465  
107.62, 168.977  
98.627, 170.308  
GENE X4  
Condition 1, Condition 2  
-2.57113, -9.33189  
3.02754, 0.0533088  
14.4203, 11.2243  
14.977, 9.93519  
1.80855, 22.967  
9.31141, 33.6037  
16.9334, 20.2613  
6.95408, 29.6724  
-1.36901, 7.82302  
0.0151007, 42.6361  
GENE X5  
Condition 1, Condition 2  
49.8184, 163.062  
75.9428, 163.286

86.7648,140.635  
62.7143,158.603  
58.992,176.277  
71.5383,156.923  
60.453,139.778  
64.0643,175.181  
67.0834,143.655  
64.2465,133.249

CE17B126

GENE X1

Condition 1, Condition 2

30.3031,-5.06412

15.8542,16.8979

-3.78929,20.7069

-14.526,10.7364

6.55247,-4.10705

-11.9824,-9.51903

22.3578,38.0211

11.8781,19

-2.11899,10.9893

-5.95904,33.194

GENE X2

Condition 1, Condition 2

18.9843,127.257

3.48277,94.987

8.80839,100.823

22.2398,134.416

11.6532,101.791

11.4087,147.533

16.0093,108.611

0.820207,128.66

11.8669,108.174

-26.7892,126.044

GENE X3

Condition 1, Condition 2

73.9159,62.6803

73.027,68.8142

69.8168,58.2768

70.8667,49.9579

45.4449,63.0592

72.9271,59.4968

60.2231,49.2283

65.3447,54.03

79.7497,49.3975

56.7407,64.7998

GENE X4

Condition 1, Condition 2

11.6042,228.829

22.0059,185.763

24.7265,157.601

30.4682,158.446

19.3306,128.993

30.6846,135.042

50.5087,209.312

14.752,154.908

35.9844,149.816

35.4934,178.157

GENE X5

Condition 1, Condition 2

62.594,135.173

71.5607,162.099

98.4657,125.506  
34.7131,167.745  
60.574,136.637  
86.658,146.2  
56.9695,128.335  
88.7825,159.26  
47.2224,156.597  
37.4714,158.4

CE17B127

GENE X1

Condition 1, Condition 2

45.424, 203.992

39.6362, 210.469

67.7105, 210.103

38.5141, 211.065

46.9484, 175.512

32.6385, 172.726

78.5398, 201.316

59.9293, 195.319

67.1931, 196.511

89.7458, 203.298

GENE X2

Condition 1, Condition 2

71.5321, 223.117

63.8633, 191.746

65.6716, 211.672

73.3791, 204.212

66.8641, 175.561

69.7045, 193.79

66.6258, 206.052

77.1936, 205.589

60.8601, 190.446

67.8537, 184.565

GENE X3

Condition 1, Condition 2

50.1454, 77.0473

72.9652, 50.1257

61.4327, 76.9842

60.0788, 70.689

39.0847, 51.1455

68.6661, 75.3198

26.0189, 56.5404

53.0052, 41.6389

48.9455, 35.7386

56.6753, 62.7232

GENE X4

Condition 1, Condition 2

40.1779, 17.8991

36.335, 21.3477

46.6901, 2.37877

32.1581, 27.8367

44.7315, 15.9954

40.3214, 10.6501

40.7975, 27.9841

37.5445, -4.6247

42.4251, 14.529

38.207, 16.923

GENE X5

Condition 1, Condition 2

38.4818, 104.295

50.4361, 120.521

39.822,123.635  
53.6872,150.896  
57.8682,124.5  
55.1829,140.335  
38.9366,118.265  
57.4515,121.207  
38.7298,90.4521  
35.3241,107.785

CE17B128

GENE X1

Condition 1, Condition 2

36.0026, 102.644

40.7571, 101.205

11.2428, 121.601

16.4702, 104.482

34.7064, 94.2061

12.4755, 99.6264

23.4671, 120.123

40.1578, 129.961

12.2342, 111.617

19.1097, 112.974

GENE X2

Condition 1, Condition 2

50.9975, 182.473

47.1845, 176.535

40.8137, 153.562

40.955, 153.216

45.5952, 159.787

49.3865, 169.718

63.6983, 163.746

55.2306, 178.68

34.8264, 160.89

38.1078, 165.183

GENE X3

Condition 1, Condition 2

71.1334, 94.1756

74.2049, 78.3588

52.2257, 108.544

50.134, 100.285

53.405, 118.143

48.0689, 95.0557

96.4792, 88.6793

61.1191, 122.557

64.7524, 103.434

54.1716, 122.086

GENE X4

Condition 1, Condition 2

83.2742, 197.254

90.9695, 197.149

98.0311, 176.79

96.6931, 184.349

94.0311, 206.922

80.6861, 208.946

70.6718, 198.688

79.7409, 168.575

79.1578, 180.397

92.8408, 175.379

GENE X5

Condition 1, Condition 2

20.5923, 47.7267

28.3617, 29.7544

31.6453,45.9635  
22.9928,33.441  
24.4969,15.4165  
40.6419,29.0703  
25.5173,24.5897  
30.7698,41.8985  
17.8069,36.3183  
33.6645,31.1894

CE17B131  
GENE X1  
Condition 1, Condition 2  
83.0549, 4.71683  
88.622, 12.3317  
100.86, 20.343  
86.9662, 22.5121  
102.244, 19.2023  
89.7929, 58.5259  
94.923, 23.3447  
97.9994, 38.4495  
89.6989, 35.2569  
89.816, 36.9041  
GENE X2  
Condition 1, Condition 2  
106.325, 154.398  
97.529, 176.185  
112.223, 141.841  
104.447, 154.422  
99.4968, 156.442  
97.204, 164.934  
101.778, 140.131  
109.732, 139.224  
94.0189, 165.998  
101.763, 172.802  
GENE X3  
Condition 1, Condition 2  
21.5006, 46.7236  
5.36556, 58.1822  
-0.0619105, 89.9683  
18.1135, 76.876  
-5.77074, 42.9837  
9.73086, 64.6395  
11.2465, 53.7838  
2.95581, 46.3504  
27.1618, 38.598  
23.0867, 21.1949  
GENE X4  
Condition 1, Condition 2  
83.4125, 149.917  
90.5519, 143.453  
81.4833, 173.464  
89.2361, 193.086  
84.1068, 193.664  
86.9295, 204.868  
88.1889, 199.952  
105.146, 190.42  
79.1597, 202.431  
86.208, 158.256  
GENE X5  
Condition 1, Condition 2  
1.54449, 77.1608  
26.9883, 92.8024

13.7948,80.9478  
1.52405,88.9355  
25.7763,86.4721  
23.8739,78.1554  
7.44689,73.9943  
-27.0892,91.7292  
11.2418,80.3366  
5.2415,87.2089

CE17B132

GENE X1

Condition 1, Condition 2

55.6069, 190.335

33.7451, 176.924

35.9323, 143.457

65.1438, 225.304

29.4009, 176.352

40.2015, 164.509

37.8009, 154.421

41.3386, 181.993

51.2414, 197.367

44.3299, 200.454

GENE X2

Condition 1, Condition 2

75.717, 166.032

84.5892, 178.281

72.1455, 165.75

82.754, 166.058

82.95, 163.458

72.48, 151.57

76.7491, 164.697

82.9928, 160.708

71.3292, 156.069

77.0144, 153.096

GENE X3

Condition 1, Condition 2

92.525, 60.7933

75.8424, 70.5504

73.0302, 77.6824

65.9036, 40.5604

107.261, 58.9275

92.2846, 51.141

78.4653, 52.6965

94.2692, 43.1114

90.8158, 41.2034

88.0556, 67.793

GENE X4

Condition 1, Condition 2

94.9762, 37.0882

80.1065, 9.31926

75.5165, 22.9407

59.5894, 34.2742

91.5066, 20.123

64.8958, 44.5613

86.3602, 42.3464

59.9856, 26.494

54.1724, 34.0262

58.68, 28.8544

GENE X5

Condition 1, Condition 2

109.61, 33.5962

114.31, 59.0516

71.771,32.6862  
87.9479,61.9084  
83.8033,47.5531  
98.9017,58.1665  
88.995,60.2874  
95.6397,72.3951  
79.9399,65.5268  
90.4528,59.4619

CE17B135  
GENE X1  
Condition 1, Condition 2  
68.465, 57.176  
74.5214, 73.5522  
62.3713, 73.7025  
61.9194, 76.8098  
59.587, 80.6563  
69.1414, 64.4768  
73.5689, 60.7548  
58.2011, 85.6961  
70.0674, 79.0518  
57.0468, 65.6734  
GENE X2  
Condition 1, Condition 2  
68.8048, 168.99  
65.8914, 190.01  
87.3301, 180.736  
61.0208, 166.295  
56.2412, 153.766  
84.7953, 171.552  
87.5503, 167.635  
106.579, 171.065  
76.8606, 190.132  
46.5909, 165.076  
GENE X3  
Condition 1, Condition 2  
72.2948, 43.8029  
67.8082, 31.917  
62.5611, 6.46851  
54.0193, -9.90304  
68.8114, 12.5296  
59.29, 68.3192  
57.8137, 29.7616  
61.9773, 100.905  
64.6273, 61.3926  
61.1846, 49.3985  
GENE X4  
Condition 1, Condition 2  
58.5236, 42.5115  
86.147, 67.7371  
83.6185, 57.3052  
61.2626, 51.9083  
52.3774, 19.3201  
64.6584, 69.6373  
95.911, 53.3071  
37.9069, 53.259  
68.1549, 59.4324  
73.4691, 25.2207  
GENE X5  
Condition 1, Condition 2  
122.951, 5.6143  
80.5296, 46.4126

110.495,13.2419  
104.262,58.1787  
87.7557,19.9016  
81.7386,1.21111  
73.7714,43.0134  
61.495,61.9365  
91.5615,20.2952  
74.458,5.48831

CH16B008  
GENE X1  
Condition 1, Condition 2  
89.8825, 69.3985  
78.6175, 60.3782  
65.469, 86.1161  
68.9804, 56.9838  
68.8795, 78.9195  
75.8262, 74.8515  
91.3237, 83.1554  
67.3507, 104.002  
123.874, 74.7457  
88.1549, 84.7753  
GENE X2  
Condition 1, Condition 2  
113.851, 153.539  
129.927, 162.041  
68.396, 155.7  
109.432, 177.467  
94.0293, 164.935  
55.58, 174.652  
93.3807, 153.994  
106.874, 164.561  
117.778, 183.379  
94.6669, 176.021  
GENE X3  
Condition 1, Condition 2  
103.227, 135.219  
90.7945, 172.623  
96.4445, 189.507  
91.6407, 161.604  
92.3898, 143.451  
69.4172, 146.834  
86.0967, 178.591  
94.8249, 158.145  
110.872, 172.258  
91.2161, 137.407  
GENE X4  
Condition 1, Condition 2  
94.9739, 143.115  
95.0749, 144.749  
79.7856, 118.159  
95.094, 141.517  
84.8023, 151.846  
115.529, 148.58  
105.915, 146.586  
85.1893, 150.31  
97.4923, 145.696  
106.705, 164.752  
GENE X5  
Condition 1, Condition 2  
81.1705, 8.28234  
74.4561, 26.1274

71.0699,54.3375  
71.3921,29.025  
65.4428,30.8194  
84.1043,14.7063  
76.6091,28.7911  
60.2149,29.4474  
60.9785,24.8447  
84.6764,40.5243

CH16B104  
GENE X1  
Condition 1, Condition 2  
104.441, 68.8353  
76.0952, 39.8267  
93.8183, 78.5351  
89.0202, 73.7931  
89.6649, 40.7683  
103.926, 50.0202  
86.4829, 51.5202  
98.7079, 53.7242  
82.4852, 60.3833  
62.6299, 72.1236  
GENE X2  
Condition 1, Condition 2  
10.1256, 171.953  
20.1299, 162.812  
-3.61004, 174.165  
-8.00273, 136.429  
0.753712, 142.572  
23.887, 142.094  
21.7202, 135.634  
10.2532, 125.23  
3.39045, 138.89  
11.6875, 137.874  
GENE X3  
Condition 1, Condition 2  
2.45559, 153.095  
-5.58502, 134.329  
-10.5668, 139.279  
4.85636, 128.425  
-5.7451, 131.706  
-0.595665, 148.54  
18.8416, 150.058  
-0.198986, 151.44  
9.47128, 136.877  
-12.242, 137.49  
GENE X4  
Condition 1, Condition 2  
65.4296, 150.487  
78.1073, 134.646  
88.5216, 156.343  
87.1546, 146.514  
93.5941, 153.622  
69.8269, 115.825  
56.6346, 111.586  
57.237, 144.785  
72.0899, 121.072  
92.1007, 177.361  
GENE X5  
Condition 1, Condition 2  
40.8026, 63.1708  
38.2894, 32.3293

38.6381,44.5024  
21.7985,50.2466  
39.3998,56.8907  
48.6636,60.4222  
36.2929,66.8364  
34.0398,56.6736  
53.5326,46.8529  
38.727,64.9207

CH16B117

GENE X1

Condition 1, Condition 2

100.757,149.282

111.357,149.43

70.9409,167.722

88.0074,136.588

87.9728,171.341

96.8887,150.553

80.0278,116.267

83.3663,130.896

95.5931,160.278

103.871,164.015

GENE X2

Condition 1, Condition 2

21.8057,182.427

31.3362,162.342

19.8277,171.276

20.7283,121.417

29.9384,172.718

21.5952,162.476

13.9352,146.834

25.4822,157.297

23.3027,182.463

20.3269,139.478

GENE X3

Condition 1, Condition 2

69.5428,22.084

47.6899,24.5705

21.9752,21.2039

63.6237,8.21016

45.9732,7.75445

48.34,5.66203

57.8924,8.21083

58.9353,22.6974

42.7166,50.5751

62.5543,-0.80745

GENE X4

Condition 1, Condition 2

-5.70779,19.0087

0.175131,35.8468

-0.166303,43.4472

10.5013,42.8594

27.1631,22.8736

-5.57301,27.4091

12.3105,30.4612

-17.1677,22.768

10.125,11.2198

11.6237,63.4079

GENE X5

Condition 1, Condition 2

52.2597,121.308

55.5977,116.552

50.2868,127.256  
66.0115,112.045  
71.0591,105.681  
50.8243,98.5475  
60.1041,71.3184  
54.276,101.154  
49.1854,110.564  
57.0156,111.324

CH17B002  
GENE X1  
Condition 1, Condition 2  
64.7255,199.461  
52.0949,186.429  
60.7567,184.025  
51.3717,147.032  
61.1049,227.294  
49.1266,175.566  
47.4662,172.346  
61.1328,169.018  
39.5702,188.284  
50.5055,187.907  
GENE X2  
Condition 1, Condition 2  
69.1967,106.7  
64.3762,101.824  
63.4098,114.338  
66.756,118.224  
64.0977,86.9833  
65.7128,122.298  
71.6559,99.0051  
68.246,95.5867  
65.9074,82.3644  
65.725,107.303  
GENE X3  
Condition 1, Condition 2  
83.1769,106.054  
65.2126,87.1043  
78.6347,91.5588  
79.1228,71.7836  
59.5049,97.2955  
64.1456,125.165  
44.5208,96.0664  
83.1975,76.5165  
53.8886,96.2081  
59.8353,97.2587  
GENE X4  
Condition 1, Condition 2  
57.4773,53.122  
50.5882,80.5393  
34.4359,70.5613  
37.3019,43.5787  
51.5573,66.8105  
63.6481,74.207  
50.1366,59.3494  
52.341,59.475  
66.9009,53.6199  
49.3191,78.0147  
GENE X5  
Condition 1, Condition 2  
13.4126,127.016  
9.28033,154.006

12.7682,149.537  
7.3153,129.088  
19.9265,137.656  
6.89075,140.988  
6.57597,162.883  
2.26838,136.327  
17.8937,159.593  
19.7831,151.369

CH17B003  
GENE X1  
Condition 1, Condition 2  
67.5562, 59.3631  
64.5827, 90.647  
63.7811, 116.491  
75.9272, 127.889  
77.2891, 72.1421  
75.9593, 78.4427  
82.2967, 63.2968  
68.1845, 96.6886  
75.8453, 98.5685  
75.3447, 123.721  
GENE X2  
Condition 1, Condition 2  
87.0947, 67.5362  
43.8616, 71.1091  
40.6922, 39.9075  
62.9467, 81.8794  
65.3458, 74.3924  
34.9284, 61.303  
47.7953, 89.0695  
68.6125, 92.5595  
72.1472, 70.3277  
61.6163, 71.095  
GENE X3  
Condition 1, Condition 2  
96.9092, 171.493  
68.3324, 165.269  
76.9839, 178.34  
85.006, 177.341  
81.5105, 140.64  
65.9594, 166.196  
78.0445, 187.257  
100.76, 192.957  
103.66, 191.499  
65.1046, 175.014  
GENE X4  
Condition 1, Condition 2  
80.6422, 43.8189  
106.973, 31.685  
114.7, 25.6754  
78.1588, 20.5584  
85.7573, 22.914  
96.4315, 16.0152  
108.09, 22.5406  
98.6207, 45.7431  
77.9937, 64.8929  
82.9506, 37.5406  
GENE X5  
Condition 1, Condition 2  
37.9013, 69.0571  
41.647, 94.0827

34.2277,98.6226  
26.4402,72.8873  
31.9431,68.3428  
32.8247,36.8612  
49.7895,63.1072  
62.347,49.312  
30.2566,111.365  
39.4571,75.4881

CH17B007

GENE X1

Condition 1, Condition 2

72.2502, 26.0115

94.3407, 30.7051

62.0869, 59.0789

71.4926, 4.15065

50.1348, 4.29395

65.0537, 23.2493

60.7408, 26.4107

72.424, 25.0852

87.6523, 30.849

32.9135, -1.31314

GENE X2

Condition 1, Condition 2

73.3622, 144.999

49.0199, 210.123

50.9417, 212.13

83.0591, 176.005

50.784, 181.405

57.9477, 190.17

41.0064, 200.822

74.4706, 191.077

51.3721, 198.973

72.0337, 144.578

GENE X3

Condition 1, Condition 2

124.149, 26.0289

84.4944, 27.383

111.204, 8.51751

107.455, 30.1382

78.2591, 50.7851

115.831, 30.0388

91.5083, 15.2088

84.2635, 14.1086

125.552, 22.1355

99.2652, -3.66887

GENE X4

Condition 1, Condition 2

26.2241, 182.431

9.39707, 183.013

16.8213, 174.534

8.02573, 166.413

14.0391, 184.002

-5.10305, 174.424

12.2535, 166.239

3.18681, 194.805

-8.21295, 157.513

19.2343, 168.297

GENE X5

Condition 1, Condition 2

40.6208, 147.729

47.003, 176.537

47.4407,180.2  
37.4088,179.811  
45.3198,176.121  
48.5985,170.181  
44.4226,162.007  
40.7395,162.208  
41.8637,147.434  
48.7094,149.396

CH17B010  
GENE X1  
Condition 1, Condition 2  
34.7218, 168.137  
47.436, 159.789  
32.6143, 169.352  
35.5384, 157.127  
42.4732, 204.254  
48.6574, 220.279  
38.409, 175.797  
38.3779, 193.899  
40.2873, 186.225  
39.4751, 213.845  
GENE X2  
Condition 1, Condition 2  
-11.3961, 156.517  
5.0087, 111.324  
-6.54581, 149.864  
6.54488, 172.931  
0.852274, 192.454  
13.8496, 135.736  
1.44039, 126.056  
-0.00749086, 158.987  
3.06492, 113.479  
-0.871966, 137.4  
GENE X3  
Condition 1, Condition 2  
-5.80977, 183.556  
15.9488, 187.143  
2.51275, 167.933  
27.1748, 203.442  
-4.87321, 193.386  
16.478, 194.554  
14.2989, 187.333  
36.0871, 190.887  
9.17313, 164.5  
21.5184, 185.464  
GENE X4  
Condition 1, Condition 2  
84.9674, 139.378  
60.6308, 141.729  
72.0563, 155.252  
79.0439, 141.222  
74.7526, 114.791  
76.426, 151.163  
82.2266, 145.027  
92.483, 151.479  
74.3281, 163.164  
96.892, 146.29  
GENE X5  
Condition 1, Condition 2  
27.0662, 50.6604  
45.2358, 46.6416

35,41.7902  
36.2847,71.1042  
17.2481,30.2459  
22.7653,50.3257  
30.1293,42.6706  
8.34802,37.3945  
33.672,50.8782  
44.4858,58.748

CH17B012

GENE X1

Condition 1, Condition 2

1.70607, 90.7493

19.5802, 76.2088

22.2558, 94.7542

11.6558, 75.6006

17.3857, 100.787

16.4303, 67.0828

12.3754, 63.669

11.9258, 76.5118

11.4426, 104.671

12.057, 79.6178

GENE X2

Condition 1, Condition 2

54.9568, 75.8228

74.4039, 74.4013

68.3557, 43.8257

74.5714, 72.1476

73.4544, 65.9459

74.5214, 65.9118

99.0863, 61.9349

56.3932, 61.1325

79.1525, 65.6319

98.2087, 41.7556

GENE X3

Condition 1, Condition 2

18.0292, 144.207

6.16178, 145.217

12.7509, 161.866

23.931, 147.677

16.9568, 137.955

10.0197, 148.758

23.1698, 138.222

19.3552, 145.574

16.2728, 141.651

18.3951, 157.984

GENE X4

Condition 1, Condition 2

95.2682, 13.3835

101.726, 23.4124

70.1744, 27.2956

76.7818, 14.9091

68.2103, 26.0563

80.8228, 14.8403

63.263, 18.988

86.7159, 7.44968

92.1458, 19.7238

76.7193, 26.1504

GENE X5

Condition 1, Condition 2

8.83297, 8.41765

28.2215, 31.1407

37.4968,13.1505  
41.4154,28.4933  
36.2912,40.6249  
25.6599,22.3106  
37.264,25.1837  
9.82836,-12.0947  
25.7461,8.13376  
58.658,12.6522

CH17B017

GENE X1

Condition 1, Condition 2

96.6585, 150.737

101.755, 119.162

105.208, 139.964

96.8067, 172.793

104.954, 120.489

103.008, 178.641

86.1983, 177.747

100.121, 165.677

122.02, 141.166

88.0233, 184.444

GENE X2

Condition 1, Condition 2

66.589, 121.53

58.351, 96.9526

54.0474, 120.619

57.4332, 91.8967

52.9196, 129.134

61.0729, 95.8921

61.027, 131.666

59.2726, 124.298

59.7131, 111.871

62.9962, 125.363

GENE X3

Condition 1, Condition 2

-9.89291, 131.969

44.1393, 122.069

32.0901, 116.881

18.4942, 100.758

6.7141, 104.169

28.9648, 136.988

5.25414, 149.967

0.412882, 155.323

10.1676, 116.898

24.7957, 105.705

GENE X4

Condition 1, Condition 2

104.458, 153.537

78.0076, 165.562

68.4226, 166.747

52.505, 153.819

120.355, 162.893

77.7554, 168.648

85.1499, 147.404

100.072, 146.38

93.689, 158.655

56.6221, 156.902

GENE X5

Condition 1, Condition 2

41.821, 63.056

62.4237, 65.6689

93.4624,51.6985  
77.9568,68.867  
91.0315,73.0393  
64.4386,61.8595  
54.7158,36.434  
80.2281,50.0179  
60.7375,71.1162  
65.2821,52.4745

CH17B020

GENE X1

Condition 1, Condition 2

75.1302, 173.539

71.9961, 172.172

66.9407, 177.611

77.8434, 182.218

80.1456, 151.544

73.7105, 161.892

90.6721, 160.762

80.4575, 193.399

68.0516, 163.451

79.9139, 170.707

GENE X2

Condition 1, Condition 2

79.2081, 27.6571

55.6373, 25.704

58.6434, 23.5876

33.7775, 8.60176

41.2964, 21.9761

55.0917, 20.212

49.8137, 34.7451

59.7651, 38.4622

32.3108, 18.6863

64.4418, 35.6583

GENE X3

Condition 1, Condition 2

70.7105, 62.0002

67.7636, 50.0866

74.0374, 56.4027

54.7115, 53.1461

67.5887, 44.7502

70.9844, 64.1702

67.8387, 75.3671

48.6212, 56.0884

66.5139, 49.4666

65.8754, 73.8591

GENE X4

Condition 1, Condition 2

83.4611, 164.634

94.5941, 132.753

76.404, 155.204

88.6401, 197.112

72.4109, 199.986

127.692, 152.957

102.514, 158.734

91.0069, 182.713

124.308, 155.093

95.2694, 144.022

GENE X5

Condition 1, Condition 2

39.7593, 134.934

40.4385, 127.191

28.1226,128.892  
33.21,130.902  
38.6958,136.669  
54.873,145.409  
35.1973,105.336  
48.0082,131.758  
29.7215,150.094  
27.6713,133.732

CH17B021  
GENE X1  
Condition 1, Condition 2  
20.5618, 148.606  
17.7856, 191.98  
16.3713, 169.818  
13.8121, 200.37  
16.7229, 153.045  
35.7487, 188.681  
8.58966, 173.087  
19.1058, 170.526  
28.93, 123.695  
30.8184, 164.509  
GENE X2  
Condition 1, Condition 2  
87.2508, 40.1733  
81.7294, 41.7315  
84.6011, 80.4224  
91.5116, 71.8128  
60.8058, 113.588  
86.4362, 69.015  
86.2972, 62.5251  
84.7149, 61.2264  
70.0838, 80.9352  
65.7983, 41.2446  
GENE X3  
Condition 1, Condition 2  
52.4527, 98.9427  
69.1521, 78.7696  
75.3678, 72.1303  
85.4212, 96.2434  
51.5791, 86.263  
77.1312, 82.2043  
66.7628, 88.6568  
75.6296, 85.0318  
84.3863, 89.5565  
66.8054, 87.57  
GENE X4  
Condition 1, Condition 2  
101.475, 196.819  
84.0558, 152.226  
97.9239, 134.091  
85.3441, 140.723  
101.132, 143.884  
100.207, 161.174  
97.8707, 182.854  
93.2843, 143.293  
94.6663, 151.904  
95.2819, 164.665  
GENE X5  
Condition 1, Condition 2  
20.3375, 77.0679  
16.5585, 104.777

15.5543,78.7483  
4.33638,73.4573  
3.8565,90.7822  
23.6249,108.201  
-0.287866,69.1362  
34.1316,86.1985  
12.3195,83.0627  
21.9636,101.656

CH17B022  
GENE X1  
Condition 1, Condition 2  
27.4554, 140.537  
29.4727, 137.916  
13.7356, 109.029  
43.4557, 136.398  
20.2775, 117.174  
16.7959, 135.427  
33.8291, 139.389  
30.7143, 141.127  
13.6896, 139.891  
34.2434, 131.788  
GENE X2  
Condition 1, Condition 2  
53.1604, 194.131  
55.801, 192.812  
59.6857, 180.749  
79.3698, 234.77  
60.6804, 182.982  
51.7625, 159.83  
66.0683, 225.049  
70.1727, 187.338  
53.8101, 178.905  
54.5366, 181.387  
GENE X3  
Condition 1, Condition 2  
60.7208, 16.24  
45.3723, 26.5836  
20.7116, 10.2648  
51.203, -35.1229  
48.7566, 37.1366  
38.2847, 9.76654  
5.96852, 2.16001  
39.35, 24.8737  
62.4692, -28.0978  
43.4684, 11.7844  
GENE X4  
Condition 1, Condition 2  
68.8411, 198.472  
42.6894, 149.754  
28.7255, 138.33  
57.0448, 180.177  
78.4623, 161.155  
61.2189, 179.309  
40.7519, 146.535  
53.1797, 183.483  
70.9282, 161.427  
54.9824, 185.059  
GENE X5  
Condition 1, Condition 2  
51.702, 211.373  
39.7328, 176.506

30.711,198.936  
41.6277,179.888  
36.3405,196.482  
48.8937,217.379  
57.7535,167.39  
43.9016,209.431  
29.0166,180.358  
55.5775,156.026

CH17B023  
GENE X1  
Condition 1, Condition 2  
56.5415, 81.6529  
78.0898, 86.2323  
68.3879, 94.7258  
42.9221, 82.6836  
95.589, 87.3187  
72.3839, 108.382  
62.917, 122.076  
89.9289, 105.469  
82.9413, 97.4687  
68.9768, 65.6725  
GENE X2  
Condition 1, Condition 2  
60.7105, 137.38  
45.1155, 144.657  
53.3691, 156.058  
51.3786, 156.994  
32.5066, 151.481  
68.2631, 119.352  
62.1001, 166.695  
39.386, 164.676  
58.8079, 158.087  
43.4439, 139.946  
GENE X3  
Condition 1, Condition 2  
77.7221, 54.3695  
82.7662, 71.5978  
90.0436, 89.9195  
86.2617, 77.6633  
69.5235, 63.2704  
84.8651, 113.798  
88.0616, 65.2391  
76.1848, 52.089  
81.8214, 45.1253  
83.3567, 71.3341  
GENE X4  
Condition 1, Condition 2  
34.0327, 15.852  
32.8164, -7.13839  
41.7333, 1.93486  
21.677, -19.0035  
41.7332, 13.0728  
37.8456, 33.7642  
28.9092, 12.4127  
46.977, 10.1004  
31.6932, 9.40337  
43.6249, -7.35561  
GENE X5  
Condition 1, Condition 2  
-5.37274, -29.7118  
6.5716, -3.18214

-5.14905,-0.0359633  
-4.53757,23.2569  
1.36353,-14.8713  
14.777,2.37583  
5.93644,34.7471  
-10.5591,15.3073  
17.9069,7.57239  
16.6966,-6.38553

CH17B024

GENE X1

Condition 1, Condition 2

74.7722, 94.834

56.2127, 98.7339

78.05, 64.3439

66.4991, 49.14

77.5635, 82.6227

86.0053, 99.0114

87.6671, 59.9798

75.1882, 140.263

69.564, 105.792

69.0935, 41.5349

GENE X2

Condition 1, Condition 2

-8.22602, 110.045

16.2698, 114.44

-7.57044, 131.721

0.780744, 117.506

24.1395, 131.255

1.79744, 123.687

8.89436, 101.678

15.8388, 95.6578

7.90536, 132.147

-2.1235, 120.202

GENE X3

Condition 1, Condition 2

9.75122, 62.9692

-1.00172, 46.8971

19.2465, 49.4449

29.4307, 48.3173

8.30452, 67.4216

10.342, 62.4844

15.8993, 61.8159

28.2612, 67.2297

17.9729, 61.0097

-25.1405, 52.814

GENE X4

Condition 1, Condition 2

59.1886, 202.969

50.0321, 154.505

71.107, 157.995

38.8356, 192.026

54.8363, 177.409

53.877, 174.347

57.4255, 200.321

65.5527, 177.633

52.9504, 247.795

52.1289, 191.904

GENE X5

Condition 1, Condition 2

54.747, 129.452

64.1957, 112.84

44.2324,120.263  
60.2468,109.592  
44.6676,148.201  
56.4986,124.766  
62.1684,127.751  
41.4113,136.151  
63.2326,120.188  
50.0777,117.962

CH17B025  
GENE X1  
Condition 1, Condition 2  
46.426, 118.495  
27.1215, 177.873  
40.721, 113.987  
19.2314, 112.753  
56.1301, 103.829  
22.6706, 145.507  
21.3054, 136.859  
35.8758, 108.839  
27.7094, 114.645  
15.1053, 121.157  
GENE X2  
Condition 1, Condition 2  
5.60879, 179.751  
-14.8187, 193.1  
14.0829, 172.325  
8.91405, 198.574  
17.9722, 186.559  
14.3995, 210.73  
1.44836, 203.712  
-12.8161, 198.715  
-10.1049, 185.786  
4.66545, 215.505  
GENE X3  
Condition 1, Condition 2  
102.717, 49.9883  
98.0518, 39.2989  
85.5511, 14.7875  
90.5652, 34.6095  
96.8368, 46.0993  
95.2603, 50.5733  
95.8482, 22.7487  
84.0553, 37.2366  
85.9688, 45.9565  
88.9573, 0.790121  
GENE X4  
Condition 1, Condition 2  
114.12, 125.471  
86.6253, 127.726  
85.6782, 117.487  
78.4567, 116.296  
82.4943, 83.4959  
77.8873, 86.359  
101.185, 67.3124  
84.4881, 110.936  
100.151, 105.654  
97.8023, 112.573  
GENE X5  
Condition 1, Condition 2  
25.8818, 151.506  
35.0545, 146.459

33.7063,155.498  
30.809,158.827  
32.4331,169.035  
28.6641,163.92  
33.9551,161.447  
41.6544,156.345  
32.3305,143.503  
44.9563,155.305

CH17B028

GENE X1

Condition 1, Condition 2

16.41, 159.857

11.463, 192.454

25.8329, 177.048

18.9381, 165.959

22.3995, 175.565

14.2824, 198.049

21.1053, 190.728

5.66109, 178.783

14.6387, 150.117

18.2527, 204.212

GENE X2

Condition 1, Condition 2

85.403, 58.2554

89.4701, 57.2912

84.5589, 55.9103

68.0434, 67.0875

89.6559, 60.4931

76.173, 62.8108

76.7277, 57.4135

72.0818, 53.643

80.8267, 46.8863

83.8896, 60.9462

GENE X3

Condition 1, Condition 2

101.778, 99.7505

115.014, 83.0653

113.546, 101.767

89.2346, 112.562

86.9136, 102.524

93.6539, 105.975

94.6698, 105.641

108.217, 74.9565

105.798, 89.5584

68.2684, 96.471

GENE X4

Condition 1, Condition 2

4.15683, 27.101

16.8843, 9.48632

32.3282, 11.7352

25.3485, 42.7644

26.2897, 13.9027

7.93088, 5.61282

30.4899, 10.825

33.4112, 11.9728

17.195, 10.6756

7.68954, 6.82886

GENE X5

Condition 1, Condition 2

60.0093, 97.1534

50.2032, 110.105

65.6851,99.7681  
87.383,71.0905  
90.6587,120.348  
78.133,70.7801  
67.5807,92.3298  
76.1916,109.792  
58.0654,80.4232  
75.8061,116.233

CH17B030  
GENE X1  
Condition 1, Condition 2  
92.5201, 10.2139  
81.7626, 24.3565  
54.3791, 23.6622  
64.5126, 17.012  
87.8871, 19.317  
93.5297, 13.8025  
64.9236, 2.11518  
72.9371, 31.2717  
76.1401, 2.06633  
103.644, 10.3997  
GENE X2  
Condition 1, Condition 2  
61.3652, 98.1339  
95.0156, 66.1251  
103.524, 86.1686  
72.699, 93.3068  
130.68, 85.3339  
89.7535, 85.8085  
88.7981, 65.8891  
69.0434, 87.5751  
100.432, 110.649  
72.7155, 71.1811  
GENE X3  
Condition 1, Condition 2  
38.7449, 158.795  
41.7241, 152.989  
42.9357, 166.021  
42.1674, 122.677  
40.584, 148.41  
34.9617, 171.855  
40.0725, 168.637  
37.3826, 133.377  
44.0967, 156.512  
38.9257, 135.715  
GENE X4  
Condition 1, Condition 2  
67.2729, 100.911  
64.9715, 100.257  
68.3187, 104.968  
77.591, 56.234  
72.3765, 84.7732  
66.5027, 79.461  
57.4996, 81.375  
61.8427, 107.034  
70.9016, 84.1333  
64.2061, 85.2291  
GENE X5  
Condition 1, Condition 2  
58.3159, 105.916  
47.32, 112.577

39.6678,77.2535  
68.0381,113.624  
56.1415,90.7453  
65.3805,98.3399  
51.8536,81.7867  
70.8056,77.1244  
54.3117,101.397  
55.7637,99.6177

CH17B031  
GENE X1  
Condition 1, Condition 2  
26.0044, 25.3402  
31.0672, 11.7051  
20.7736, 14.6531  
11.0194, 9.82172  
25.0685, -8.36403  
33.2297, -0.121802  
19.6987, 6.86916  
44.768, 25.5063  
33.8913, 0.762474  
44.4292, -5.27677  
GENE X2  
Condition 1, Condition 2  
32.1404, 21.0516  
28.9241, 24.9802  
39.6666, 10.1291  
16.4801, 34.4248  
35.2241, 27.2292  
14.4564, 6.12268  
21.3628, 1.95245  
39.2829, 26.0609  
33.9259, 6.6891  
22.9154, 11.7138  
GENE X3  
Condition 1, Condition 2  
43.8208, 171.506  
46.7601, 169.179  
67.5012, 198.577  
62.989, 136.218  
55.7513, 154.689  
47.2488, 121.65  
30.1089, 183.765  
37.2376, 161.983  
34.4071, 150.43  
34.4627, 213.511  
GENE X4  
Condition 1, Condition 2  
124.512, 104.168  
54.0886, 43.3801  
86.0972, 79.0143  
96.5522, 74.4184  
89.3261, 50.5961  
55.1198, 67.892  
97.9049, 75.8499  
62.0252, 57.5885  
67.2745, 57.3092  
83.138, 34.7266  
GENE X5  
Condition 1, Condition 2  
81.9999, 196.171  
59.5361, 192.715

82.6271,180.85  
90.096,157.372  
64.1381,180.936  
72.786,159.025  
75.7158,210.32  
88.3828,186.109  
48.8793,185.934  
74.2529,192.894

CH17B032

GENE X1

Condition 1, Condition 2

74.5473, 154.593

73.1419, 171.228

68.6459, 178.888

61.94, 123.613

66.3831, 169.194

58.0348, 169.518

73.9102, 153.159

66.3268, 155.23

57.6018, 174.194

84.7335, 151.749

GENE X2

Condition 1, Condition 2

103.893, 30.1348

86.7593, 55.9057

98.9452, 39.2669

105.548, 44.1705

93.7529, 90.6465

85.4477, 55.0209

98.7702, 4.19569

92.187, 42.7973

87.1158, 33.3172

119.168, 97.6045

GENE X3

Condition 1, Condition 2

76.1129, 41.1424

87.7487, 35.262

85.9245, 49.8399

71.3261, 64.8588

75.0632, 34.731

69.9287, 33.4771

80.2889, 9.02902

66.2014, 15.6682

63.571, 52.8542

60.4833, 44.3583

GENE X4

Condition 1, Condition 2

17.8222, 128.649

30.4995, 135.983

43.3943, 141.624

35.6849, 131.194

43.7125, 150.464

45.5649, 146.338

43.7861, 135.356

7.37387, 142.373

33.5939, 139.018

31.6886, 155.164

GENE X5

Condition 1, Condition 2

89.7956, 22.3271

119.069, 37.4925

127.762,34.4021  
120.268,39.457  
110.495,30.1349  
79.8776,46.2545  
103.893,34.5323  
103.619,41.9767  
86.9828,31.5611  
111.286,29.7881

CH17B039  
GENE X1  
Condition 1, Condition 2  
27.0904, 32.2659  
22.7113, 11.4778  
29.0213, 8.87863  
20.9737, -1.14666  
8.64274, 10.3626  
32.3905, -6.99601  
8.66471, 31.7671  
18.6753, 3.90267  
3.14678, 36.0571  
12.5517, 21.4262  
GENE X2  
Condition 1, Condition 2  
99.075, 157.691  
102.805, 181.97  
97.1193, 142.666  
100.617, 170.887  
94.598, 166.319  
94.9232, 171.726  
98.1947, 165.163  
93.856, 184.641  
99.1385, 151.26  
97.0716, 175.484  
GENE X3  
Condition 1, Condition 2  
90.4669, 98.8684  
90.0791, 95.3728  
90.6532, 95.4983  
97.4177, 95.8013  
87.8491, 96.5029  
95.7036, 90.8739  
89.5142, 87.6914  
96.657, 108.442  
96.3981, 83.4727  
91.2826, 94.7973  
GENE X4  
Condition 1, Condition 2  
42.4164, 125.809  
44.052, 117.931  
48.5813, 121.625  
39.7716, 142.561  
39.0831, 134.233  
41.6904, 143.543  
31.8647, 127.797  
45.4741, 126.415  
39.6735, 135.575  
37.8958, 141.459  
GENE X5  
Condition 1, Condition 2  
52.9647, 30.4428  
48.5269, 28.437

64.1752,23.2124  
39.251,29.4887  
51.9241,22.4167  
34.8774,24.4923  
67.894,31.1582  
42.9457,38.8493  
15.8668,26.7055  
30.2291,37.8871

CH17B041  
GENE X1  
Condition 1, Condition 2  
67.6254, 23.1167  
63.5848, 77.6764  
57.2686, 67.3014  
53.0595, 28.0251  
46.0638, 80.2712  
60.3989, 66.8989  
42.0036, 31.3907  
55.9884, 18.3217  
63.9512, 22.5146  
53.739, -3.73593  
GENE X2  
Condition 1, Condition 2  
94.2856, 149.691  
84.8181, 150.518  
78.8197, 148.547  
105.597, 155.549  
81.9551, 170.315  
97.8238, 131.298  
96.6848, 133.196  
75.9613, 122.388  
66.1205, 132.71  
105.979, 105.565  
GENE X3  
Condition 1, Condition 2  
39.1318, 200.955  
65.69, 136.06  
0.278411, 129.736  
29.2057, 158.42  
39.1801, 147.409  
26.9119, 169.193  
41.84, 151.619  
47.0246, 190.691  
44.6409, 165.339  
53.6017, 201.04  
GENE X4  
Condition 1, Condition 2  
-1.28315, 205.452  
9.70451, 197.347  
19.6544, 189.306  
-14.3711, 217.584  
26.1267, 176.67  
28.4577, 202.21  
-1.17458, 208.254  
23.6587, 159.571  
2.00429, 188.388  
13.8143, 215.079  
GENE X5  
Condition 1, Condition 2  
53.2098, 56.4022  
48.2894, 55.6326

64.0908,75.0028  
54.3968,66.2004  
50.9981,67.6585  
62.2899,79.2939  
65.1264,87.4949  
55.4485,73.9321  
51.6733,44.959  
53.3939,69.8948

CH17B042  
GENE X1  
Condition 1, Condition 2  
40.3826, 70.8281  
16.2235, 57.4313  
37.8678, 74.808  
48.7869, 50.2147  
32.1767, 71.0604  
35.4395, 51.9524  
37.0814, 60.7444  
40.881, 73.3872  
37.2972, 67.9118  
23.6542, 73.6423  
GENE X2  
Condition 1, Condition 2  
77.1621, 156.258  
65.2646, 140.158  
61.4337, 137.948  
60.4465, 117.727  
64.1434, 122.599  
51.5671, 116.891  
62.8384, 108.767  
65.5512, 124.718  
63.759, 123.643  
62.4832, 123.284  
GENE X3  
Condition 1, Condition 2  
31.612, 90.3889  
33.69, 72.9876  
30.7871, 104.463  
32.0285, 51.0077  
44.5001, 68.4386  
25.3309, 84.0032  
41.0702, 84.6646  
43.9215, 73.8921  
24.4194, 100.729  
46.7647, 60.8834  
GENE X4  
Condition 1, Condition 2  
43.5697, 176.1  
56.5833, 170.535  
50.467, 141.998  
48.714, 142.096  
48.7659, 144.091  
43.893, 199.055  
43.2416, 142.417  
50.104, 185.327  
42.6166, 128.211  
45.8925, 166.079  
GENE X5  
Condition 1, Condition 2  
-6.72479, 10.0672  
6.87544, 19.8639

6.92908,46.9697  
26.6611,16.9534  
10.5073,25.5919  
-2.29172,20.9968  
-7.49887,3.16764  
-2.61355,26.6371  
-5.02191,30.7119  
25.9483,44.8618

CH17B045

GENE X1

Condition 1, Condition 2

1.87807, 170.616

12.1827, 174.724

35.2957, 142.213

3.1179, 139.769

13.2543, 161.562

11.7459, 157.418

9.86422, 147.486

-12.7344, 159.13

25.4358, 162.486

4.43829, 149.857

GENE X2

Condition 1, Condition 2

28.2824, 177.435

18.7073, 186.964

19.0668, 154.704

26.9524, 195.945

36.9247, 177.367

5.73532, 170.203

31.9754, 176.315

31.8992, 151.002

35.2693, 177.598

3.85298, 176.29

GENE X3

Condition 1, Condition 2

89.4882, 149.739

93.1675, 162.92

98.4206, 159.774

79.8438, 160.927

91.6645, 165.36

80.107, 149.318

86.6461, 169.785

104.258, 165.959

101.365, 164.533

99.536, 149.813

GENE X4

Condition 1, Condition 2

63.3666, 46.0911

78.9059, 65.7116

61.3367, 22.7298

72.786, 44.4867

63.7584, 43.6142

71.9798, 51.271

76.3204, 33.1996

71.3861, 45.3927

81.911, 26.7363

75.2963, 45.8039

GENE X5

Condition 1, Condition 2

10.4099, 154.859

2.15634, 137.658

43.2962,140.286  
-5.90149,145.015  
7.06543,147.209  
-2.86297,118.686  
34.0377,140.535  
4.50446,148.286  
5.13544,164.408  
-3.76327,144.222

CH17B047  
GENE X1  
Condition 1, Condition 2  
92.883, 68.517  
89.2835, 55.9308  
43.5371, 59.5354  
48.3335, 67.8627  
73.5815, 55.8545  
82.5012, 66.143  
52.5156, 63.1004  
51.2012, 71.459  
87.3692, 52.9266  
91.4462, 72.3791  
GENE X2  
Condition 1, Condition 2  
29.335, -18.9185  
38.4382, 13.2051  
41.8402, 0.910144  
37.3896, -3.73418  
26.2341, 24.8947  
54.1397, -9.31491  
43.9416, 1.31509  
20.8724, -9.17104  
28.6625, 7.60098  
45.6545, 17.3056  
GENE X3  
Condition 1, Condition 2  
40.2572, 218.439  
24.1802, 182.321  
29.4242, 186.055  
14.8467, 197.948  
17.4638, 207.92  
30.6049, 191.596  
30.1631, 215.82  
12.9293, 211.614  
15.1632, 206.302  
48.013, 189.317  
GENE X4  
Condition 1, Condition 2  
43.9044, 73.0956  
28.3145, 64.0758  
21.0492, 79.9998  
11.3881, 75.2828  
35.3628, 86.5305  
25.628, 60.026  
19.2573, 79.4752  
16.8431, 68.9687  
57.2256, 59.4038  
37.7599, 73.0839  
GENE X5  
Condition 1, Condition 2  
45.4621, 136.04  
41.4283, 180.051

39.1043,143.053  
41.2924,178.243  
41.5942,180.354  
35.5057,149.678  
38.1253,145.264  
36.867,181.791  
33.4413,150.975  
37.5394,176.986

CH17B048

GENE X1

Condition 1, Condition 2

16.4051, 126.859

17.9376, 132.634

23.7024, 158.786

0.518623, 106.671

4.9926, 138.324

12.2768, 133.771

13.1382, 121.194

16.1729, 137.82

11.1537, 122.479

-3.24737, 94.5239

GENE X2

Condition 1, Condition 2

67.2905, 183.751

76.746, 175.982

80.7039, 172.466

76.7258, 178.126

72.956, 172.195

77.8459, 179.317

82.5578, 174.903

80.8236, 183.448

98.0548, 189.488

54.6039, 185.771

GENE X3

Condition 1, Condition 2

49.8437, 142.353

50.3859, 151.207

31.5209, 136.055

23.0017, 187.301

30.8744, 159.814

29.2404, 115.699

14.4009, 163.897

27.7745, 169.41

39.0899, 186.777

37.4454, 153.045

GENE X4

Condition 1, Condition 2

51.5263, 205.675

45.9401, 180.629

49.6233, 205.712

45.7345, 194.2

51.9943, 189.33

44.9307, 219.046

47.6954, 175.784

48.8556, 159.324

44.0098, 246.208

42.0193, 194.673

GENE X5

Condition 1, Condition 2

26.2032, 137.111

48.5006, 159.393

21.9795,139.961  
22.4029,166.989  
25.5603,117.205  
17.6944,147.128  
20.4292,145.583  
25.7897,130.545  
36.5191,156.937  
45.9631,150.85

CH17B052  
GENE X1  
Condition 1, Condition 2  
5.2738,102.683  
47.7896,117.733  
38.4385,128.453  
20.5672,137.722  
-2.43132,112.857  
21.4055,115.833  
14.4129,123.971  
50.4778,110.211  
11.0833,119.986  
10.0561,101.758  
GENE X2  
Condition 1, Condition 2  
6.04006,70.6795  
18.6685,70.0911  
10.9998,108.233  
4.53249,112.827  
17.3299,84.2985  
5.72473,106.29  
35.596,105.817  
-10.0329,108.765  
-0.840039,114.743  
-8.80743,82.0571  
GENE X3  
Condition 1, Condition 2  
90.4765,156.114  
89.9267,140.53  
87.8246,176.356  
80.8001,136.717  
92.4371,144.824  
81.2292,138.113  
87.4518,168.661  
89.9605,124.321  
88.3598,105.724  
84.7107,149.199  
GENE X4  
Condition 1, Condition 2  
19.2575,15.8306  
30.5503,6.13569  
2.61985,1.7357  
63.653,25.3474  
6.21246,38.5621  
46.9061,25.8605  
64.628,3.87594  
37.0118,33.6773  
46.8477,39.1549  
39.8851,26.0591  
GENE X5  
Condition 1, Condition 2  
26.2104,183.566  
16.0006,179.958

11.0062,169.1  
60.1508,188.126  
21.5513,167.993  
20.0602,165.583  
51.5797,179.48  
27.2769,174.774  
39.2182,172.502  
24.1564,183.172

CH17B054

GENE X1

Condition 1, Condition 2

81.2719, 24.8403

51.7708, 39.8179

71.8007, 42.8502

77.0812, 17.7327

28.4879, 63.033

87.4614, 39.5811

69.7115, -2.38041

76.1769, 22.9088

71.9401, 57.9547

66.7949, 33.9673

GENE X2

Condition 1, Condition 2

111.368, 165.294

90.3792, 107.785

116.062, 127.576

84.0204, 142.25

101.011, 164.144

126.169, 107.673

87.8708, 131.382

86.6106, 136.541

100.991, 76.9051

78.1139, 106.635

GENE X3

Condition 1, Condition 2

-2.49105, 188.59

12.1741, 168.611

21.0679, 191.453

-4.84832, 188.752

24.1172, 168.902

24.9727, 168.316

13.7287, 210.192

3.68666, 182.884

17.7014, 171.506

-1.11657, 192.775

GENE X4

Condition 1, Condition 2

81.8176, 111.227

83.7443, 121.975

70.7705, 98.6535

71.419, 114.97

74.0841, 110.931

59.8934, 113.016

56.9632, 108.264

68.5052, 102.147

78.1537, 104.763

69.5537, 109.741

GENE X5

Condition 1, Condition 2

94.1433, 51.1348

72.2205, -7.93153

104.936,6.34991  
55.4418,19.4353  
80.9834,36.732  
104.218,-2.04818  
78.7631,10.5175  
46.9396,11.5386  
93.6193,-20.0868  
65.9907,28.1037

CH17B055  
GENE X1  
Condition 1, Condition 2  
79.5211, 11.8633  
73.3863, 16.3744  
85.9457, 31.5982  
89.8181, 19.6691  
61.8824, 20.7194  
84.7747, 17.6812  
81.5011, 20.9378  
84.4957, 27.0132  
76.8074, 4.18479  
64.651, -4.03731  
GENE X2  
Condition 1, Condition 2  
23.4278, 180.876  
16.7041, 138.516  
9.35356, 160.505  
-9.77945, 122.245  
-22.9093, 144.624  
-9.81926, 147.137  
8.66492, 161.831  
4.39884, 153.324  
-11.322, 154.885  
4.94864, 173.129  
GENE X3  
Condition 1, Condition 2  
93.4773, 114.201  
88.2693, 111.81  
85.5919, 83.8425  
81.5951, 86.4782  
46.6211, 119.865  
81.2637, 89.8751  
82.2473, 90.4771  
82.0388, 107.801  
98.0235, 99.7596  
70.1491, 88.2152  
GENE X4  
Condition 1, Condition 2  
54.7585, 232.157  
55.0869, 211.41  
57.5904, 195.133  
53.8639, 189.659  
54.0007, 188.419  
53.5285, 234.506  
57.8772, 171.237  
52.3705, 175.003  
53.2894, 218.685  
52.6608, 172.751  
GENE X5  
Condition 1, Condition 2  
69.1994, 56.755  
39.8145, 39.5304

48.0481,52.114  
64.2276,73.8854  
54.9609,78.9102  
39.0609,88.9777  
64.1622,54.1068  
52.1538,51.2793  
50.6577,46.172  
50.6112,62.6079

CH17B056

GENE X1

Condition 1, Condition 2

73.294, 104.222

69.1083, 108.99

64.2044, 77.7931

64.6959, 87.8404

75.0055, 80.7116

75.5131, 89.5252

79.7707, 101.817

74.7376, 103.382

71.4611, 108.368

71.075, 113.567

GENE X2

Condition 1, Condition 2

35.6009, -4.96158

38.2171, 2.56618

13.9776, 24.0129

37.1711, 52.3568

39.1183, 23.9902

19.0795, 43.7883

39.734, 30.2652

18.2444, 27.7645

33.4124, 15.4516

64.2894, 35.068

GENE X3

Condition 1, Condition 2

22.0312, 147.848

8.52075, 165.66

17.2487, 162.677

18.3719, 151.711

18.6024, 161.451

16.817, 155.107

16.3488, 151.996

18.5396, 170.83

20.456, 147.909

13.9513, 134.171

GENE X4

Condition 1, Condition 2

51.0488, 130.901

26.4987, 111.191

27.1163, 155.564

33.9479, 133.252

33.6893, 121.109

40.7521, 134.331

31.3763, 123.568

42.1712, 116.075

44.6044, 137.483

40.5383, 120.668

GENE X5

Condition 1, Condition 2

30.6237, 130.333

59.4727, 125.853

50.0282,108.17  
62.6755,108.044  
66.788,140.228  
69.4319,105.196  
84.7849,128.364  
60.591,122.533  
61.0332,105.92  
60.9887,127.72

CH17B060  
GENE X1  
Condition 1, Condition 2  
97.0769, 112.447  
91.8274, 86.7082  
85.9033, 122.454  
81.6966, 124.599  
76.0031, 135.264  
70.3347, 109.09  
75.7563, 121.286  
81.0086, 117.537  
94.2183, 125.245  
86.2117, 122.36  
GENE X2  
Condition 1, Condition 2  
54.0712, 76.4039  
31.8548, 102.186  
28.3782, 87.0496  
17.5456, 93.0194  
48.1724, 102.528  
40.0471, 82.0983  
71.3436, 81.8497  
52.2844, 86.6442  
56.5613, 111.687  
67.9796, 110.449  
GENE X3  
Condition 1, Condition 2  
52.7865, 108.04  
36.6903, 118.2  
59.0635, 130.875  
50.793, 122.424  
42.8539, 116.934  
37.296, 145.019  
35.2194, 140.788  
9.84417, 120.055  
49.2955, 151.998  
14.0897, 130.824  
GENE X4  
Condition 1, Condition 2  
3.75592, 72.3916  
13.7979, 71.7371  
23.7341, 88.6437  
21.1254, 81.2254  
17.4113, 87.5783  
23.7306, 80.0793  
13.501, 71.406  
31.4521, 64.7718  
20.3563, 66.8251  
31.3, 71.5257  
GENE X5  
Condition 1, Condition 2  
55.1145, 195.233  
60.6696, 211.664

49.0479,189.871  
55.0152,160.559  
44.1743,204.985  
38.9113,186.742  
40.1582,191.568  
45.9429,153.941  
47.8862,180.685  
66.1109,193.166

CH17B061  
GENE X1  
Condition 1, Condition 2  
59.7632, 193.558  
36.9557, 207.783  
20.8029, 193.976  
54.906, 171.063  
31.58, 187.105  
23.9952, 202.07  
25.0707, 199.604  
29.9233, 188.33  
48.4902, 213.615  
44.6658, 219.331  
GENE X2  
Condition 1, Condition 2  
113.809, 16.4587  
64.7824, 6.4153  
68.8813, 3.35346  
80.3774, 2.00658  
108.939, 6.22507  
92.4912, -11.439  
77.488, 21.2237  
89.7765, 14.2542  
99.8292, 13.3356  
75.8121, 14.826  
GENE X3  
Condition 1, Condition 2  
29.7481, 93.8604  
-2.40646, 93.9454  
-16.6944, 103.356  
27.5758, 76.4485  
24.5795, 91.9792  
11.1683, 79.9308  
10.7322, 118.242  
0.793177, 100.047  
22.9923, 79.687  
19.7027, 76.9192  
GENE X4  
Condition 1, Condition 2  
49.396, 96.7848  
50.0472, 90.8765  
57.2189, 117.03  
55.2054, 114.815  
43.9625, 106.078  
63.5651, 92.591  
51.181, 115.102  
60.8442, 109.597  
40.5354, 107.693  
54.3434, 119.309  
GENE X5  
Condition 1, Condition 2  
30.8941, 74.442  
39.619, 58.7405

12.5601,55.5873  
41.3845,76.8643  
41.956,82.1753  
23.5912,80.2432  
35.7699,37.4761  
31.9323,42.8957  
28.4248,86.9996  
52.9795,75.173

CH17B063  
GENE X1  
Condition 1, Condition 2  
34.5404, 88.1034  
35.5584, 96.728  
37.3138, 98.5433  
34.709, 88.8834  
37.2611, 84.9904  
34.0262, 73.2891  
35.4973, 92.6089  
39.6552, 75.3916  
32.179, 99.0919  
36.9582, 102.187  
GENE X2  
Condition 1, Condition 2  
41.0955, 140.692  
55.6914, 152.594  
18.1841, 131.717  
35.8607, 153.686  
26.4686, 135.966  
21.3193, 148.351  
17.151, 136.681  
32.4308, 132.968  
8.77429, 120.257  
22.3393, 160.77  
GENE X3  
Condition 1, Condition 2  
24.9567, 22.3011  
17.4473, 45.8004  
36.9552, 50.0155  
12.1011, 80.8572  
38.2705, 48.0906  
43.4728, 27.5169  
37.9523, 55.9426  
35.7384, 24.434  
31.4365, 56.6769  
16.7387, 40.4252  
GENE X4  
Condition 1, Condition 2  
31.0871, 41.535  
19.382, 46.6526  
19.9871, 63.5714  
31.1552, 31.0296  
29.0339, 52.298  
22.4115, 61.7295  
43.0951, 16.9695  
31.8397, 56.8378  
39.3438, 47.6657  
17.5795, 51.4513  
GENE X5  
Condition 1, Condition 2  
88.9358, 199.011  
92.2334, 173.048

91.8796,196.802  
79.9658,203.587  
91.6997,191.937  
87.0153,209.656  
90.0267,193.963  
89.7594,181.543  
95.6081,178.352  
91.7527,178.305

CH17B073  
GENE X1  
Condition 1, Condition 2  
6.20436, 138.274  
-3.7625, 141.268  
12.7641, 143.102  
9.3086, 134.981  
3.26314, 151.677  
1.8153, 133.295  
4.23823, 148.021  
-5.97817, 133.641  
-2.00172, 162.512  
-8.10666, 141.277  
GENE X2  
Condition 1, Condition 2  
80.1426, 169.549  
93.3061, 202.184  
78.6442, 177.205  
78.8213, 178.916  
76.2398, 171.984  
69.5928, 165.464  
81.4299, 159.503  
77.4571, 206.123  
86.6707, 182.825  
68.9833, 230.001  
GENE X3  
Condition 1, Condition 2  
6.93222, 163.367  
0.225794, 198.744  
16.5364, 230.805  
13.7435, 172.485  
19.4952, 174.625  
13.3234, 177.182  
12.8598, 200.23  
12.6742, 209.159  
17.427, 179.21  
15.1547, 181.735  
GENE X4  
Condition 1, Condition 2  
87.4577, 177.723  
78.4991, 217.709  
96.626, 185.207  
92.061, 214.321  
99.0962, 163.098  
95.241, 173.564  
86.2809, 174.645  
87.0522, 197.761  
89.4603, 175.682  
87.1793, 187.339  
GENE X5  
Condition 1, Condition 2  
61.715, 197.844  
59.0412, 182.8

54.5241,174.862  
69.5289,178.486  
57.3308,226.038  
51.4982,195.002  
42.5176,208.689  
43.9442,184.529  
58.4961,177.439  
43.6611,195.52

CH17B075  
GENE X1  
Condition 1, Condition 2  
52.2499, 145.098  
41.8473, 106.472  
48.5091, 138.348  
42.2342, 135.425  
50.6605, 135.16  
50.4989, 135.518  
49.2558, 108.085  
50.3957, 78.1794  
39.2074, 138.101  
63.7226, 103.793  
GENE X2  
Condition 1, Condition 2  
38.787, 23.2045  
36.5874, 22.0502  
43.2906, 43.4895  
46.0874, 29.05  
31.8845, 43.2669  
34.6709, 4.04654  
52.4631, 16.2572  
47.8872, 26.8386  
47.1827, 60.564  
44.5392, 42.471  
GENE X3  
Condition 1, Condition 2  
99.1211, 193.265  
75.5053, 188.363  
67.7083, 185.149  
86.8942, 197.254  
77.4784, 209.219  
109.319, 183.655  
118.094, 203.674  
53.5388, 192.843  
65.724, 195.141  
79.2415, 195.964  
GENE X4  
Condition 1, Condition 2  
27.4002, 21.8196  
27.7879, 33.4492  
34.8928, 44.0915  
55.447, 62.7211  
31.0827, 10.052  
52.6352, 39.2828  
35.3549, 60.4759  
47.7893, 17.2009  
16.9714, 20.1849  
10.09, 10.4744  
GENE X5  
Condition 1, Condition 2  
98.1168, 83.4218  
99.3611, 75.9103

95.2796,89.6817  
95.1682,71.5853  
87.7086,92.9237  
98.5827,81.4252  
96.7249,122.918  
97.4678,76.7908  
98.9901,76.987  
89.9503,98.9847

CH17B109  
GENE X1  
Condition 1, Condition 2  
88.8669, 68.6155  
63.9676, 113.268  
100.817, 12.9321  
91.5487, 67.1137  
60.8695, 93.1698  
82.26, 27.4693  
52.619, 86.4941  
98.0524, 88.6741  
89.04, 53.297  
98.282, 84.2276  
GENE X2  
Condition 1, Condition 2  
49.506, -9.17263  
43.6019, 31.0759  
47.8511, 28.5348  
63.6601, 69.9485  
33.4873, 20.4616  
31.4847, 16.3505  
31.0116, 12.6974  
26.2495, 16.3093  
55.6694, 46.7495  
57.5402, 35.1501  
GENE X3  
Condition 1, Condition 2  
4.01958, 91.3853  
26.898, 85.8476  
35.6778, 75.4411  
8.87459, 96.8667  
10.3909, 103.783  
14.9668, 76.2262  
19.2123, 108.96  
2.98429, 102.828  
9.91378, 91.2697  
5.87847, 80.1597  
GENE X4  
Condition 1, Condition 2  
3.9764, 149.766  
20.8067, 126.533  
13.428, 119.865  
12.117, 153.185  
28.3645, 157.059  
-4.13588, 116.946  
3.01696, 117.016  
13.4342, 98.7385  
28.8842, 163.04  
12.4909, 147.741  
GENE X5  
Condition 1, Condition 2  
108.147, 182.355  
121.408, 169.556

79.8368,175.69  
87.131,180.885  
90.1681,170.788  
89.6332,171.961  
79.4506,176.278  
66.0505,158.515  
89.7345,169.517  
106.358,176.321

CH17B110  
GENE X1  
Condition 1, Condition 2  
49.886, 116.271  
34.1031, 87.6403  
55.5917, 128.381  
48.7242, 152.172  
49.3261, 127.757  
43.451, 98.5372  
49.8406, 98.8689  
45.5042, 126.24  
53.1487, 97.637  
36.9017, 156.985  
GENE X2  
Condition 1, Condition 2  
81.3156, 97.5399  
83.4732, 88.7833  
41.5791, 105.377  
64.3057, 76.5569  
97.6794, 66.817  
97.7296, 89.5782  
71.1593, 72.0899  
76.7035, 89.923  
18.7483, 73.393  
72.5584, 99.2545  
GENE X3  
Condition 1, Condition 2  
69.8938, 27.2742  
36.1905, 46.364  
60.9167, 54.7701  
50.5384, 44.1975  
65.803, 44.9447  
46.4048, 27.9695  
56.8827, 62.9579  
45.6608, 39.5453  
69.2618, 61.3029  
37.2533, 36.8175  
GENE X4  
Condition 1, Condition 2  
43.8993, 176.262  
32.9689, 206.25  
36.7952, 188.878  
24.1617, 180.645  
41.9912, 164.981  
22.0159, 161.973  
23.43, 203.818  
43.6721, 180.388  
33.0359, 174.599  
33.8193, 172.202  
GENE X5  
Condition 1, Condition 2  
35.7931, 147.56  
49.2328, 125.776

22.4292,141.148  
46.8672,130.578  
56.415,133.482  
40.7599,134.199  
47.913,138.471  
35.5714,133.936  
24.3244,153.585  
47.204,123.577

CH17B111  
GENE X1  
Condition 1, Condition 2  
29.2283, 182.843  
13.8321, 161.37  
30.1024, 185.97  
37.1229, 150.809  
27.558, 162.498  
54.3412, 176.409  
37.6308, 146.065  
34.0221, 160.523  
38.6944, 189.739  
57.7893, 161.07  
GENE X2  
Condition 1, Condition 2  
-5.67809, 81.36  
-2.55205, 122.458  
-4.68902, 119.56  
-3.73133, 79.0437  
-9.00062, 70.2223  
-11.5425, 89.5616  
0.527262, 79.8092  
2.87419, 97.2533  
1.16654, 105.306  
-14.921, 103.143  
GENE X3  
Condition 1, Condition 2  
46.0123, 10.3141  
47.3249, 29.3528  
47.0212, 0.247749  
44.1213, -8.74415  
45.2379, 16.2864  
47.5828, 33.9248  
43.4062, -0.902863  
43.58, 20.6586  
40.2982, -5.67463  
55.6231, 3.43231  
GENE X4  
Condition 1, Condition 2  
41.8664, 92.9183  
47.5332, 60.2773  
44.2187, 93.473  
59.8761, 50.7747  
51.1896, 87.4492  
49.2956, 71.1606  
54.4577, 73.5594  
31.086, 50.0148  
37.5806, 50.9439  
49.4954, 73.4198  
GENE X5  
Condition 1, Condition 2  
38.4835, 171.557  
48.1841, 171.599

51.4129,175.305  
56.3447,168.832  
38.7915,159.31  
43.9897,184.002  
34.0968,168.4  
32.4987,162.99  
51.4671,160.324  
55.061,170.027

CH17B113  
GENE X1  
Condition 1, Condition 2  
3.12021, 204.263  
31.3169, 209.337  
7.33813, 175.828  
11.0384, 167.87  
-9.06597, 178.647  
3.15061, 188.157  
27.885, 182.469  
15.9082, 200.273  
5.78975, 189.816  
29.4678, 156.897  
GENE X2  
Condition 1, Condition 2  
13.587, 66.9966  
13.7272, 69.1241  
22.5099, 98.8248  
4.03501, 70.7127  
29.7385, 86.599  
29.498, 82.6877  
3.5566, 48.3563  
5.42903, 70.844  
19.7113, 86.4486  
18.1346, 73.3705  
GENE X3  
Condition 1, Condition 2  
27.5121, 99.4178  
26.5717, 128.628  
9.61557, 115.362  
16.2516, 92.0156  
20.8288, 70.8345  
9.47576, 120.905  
30.3462, 70.2392  
32.7058, 109.376  
16.8283, 131.826  
33.0737, 107.932  
GENE X4  
Condition 1, Condition 2  
18.962, 178.187  
15.5786, 177.334  
25.0257, 184.144  
20.6224, 169.246  
29.3506, 146.653  
20.6114, 168.603  
20.7636, 175.588  
21.9193, 154.067  
25.3896, 148.934  
18.727, 170.403  
GENE X5  
Condition 1, Condition 2  
100.742, 114.972  
95.9406, 117.19

100.68,115.553  
82.077,117.536  
92.2621,106.905  
58.6068,115.269  
70.0832,110.488  
80.198,109.428  
63.5361,115.115  
84.5173,99.3742

CH18B004

GENE X1

Condition 1, Condition 2

85.1475, 155.302

100.455, 135.509

91.5121, 135.159

110.686, 140.667

87.4892, 145.278

101.453, 147.542

91.5357, 138.193

84.5782, 122.071

109.765, 132.41

100.913, 138.672

GENE X2

Condition 1, Condition 2

2.97124, 166.812

13.7024, 109.126

32.8638, 116.696

36.5119, 164.877

19.2351, 109.406

16.4528, 125.939

-6.53711, 152.026

31.8048, 107.457

5.88909, 132.528

5.35061, 144.123

GENE X3

Condition 1, Condition 2

63.2201, 130.789

81.5108, 130.248

40.2785, 148.33

64.5985, 114.318

53.8133, 126.602

53.1235, 126.629

83.0639, 137.974

65.4723, 110.639

52.7139, 148.56

66.0923, 125.403

GENE X4

Condition 1, Condition 2

9.54649, 46.6377

9.91113, 53.9717

26.9941, 52.4517

2.84459, 70.0901

11.5884, 44.666

34.2065, 55.5006

17.5308, 67.6956

16.9624, 64.5512

13.6552, 54.6421

2.54811, 70.7696

GENE X5

Condition 1, Condition 2

29.0267, 142.101

29.0369, 144.11

1.82736,138.175  
15.1847,145.813  
32.5361,136.068  
13.2183,137.431  
22.0633,140.861  
34.4261,133.608  
17.6003,140.833  
0.397108,148.383

CH18B008  
GENE X1  
Condition 1, Condition 2  
51.4337, 114.034  
51.1729, 100.948  
68.8439, 111.288  
73.4954, 125.348  
68.4003, 86.9037  
83.4077, 138.02  
51.6374, 92.0583  
59.4539, 115.481  
71.3751, 117.68  
81.9748, 114.972  
GENE X2  
Condition 1, Condition 2  
11.2364, 71.238  
-15.56, 84.7081  
0.117201, 76.0065  
9.48634, 82.5726  
21.0909, 39.5029  
34.8525, 103.984  
28.2712, 63.4837  
5.58861, 71.5913  
14.4189, 61.3677  
-3.48124, 131.253  
GENE X3  
Condition 1, Condition 2  
88.0196, 50.958  
70.6502, 48.6699  
82.1069, 53.4641  
75.4676, 14.4396  
93.1291, 39.1156  
108.805, 31.0746  
71.5893, 41.0407  
62.271, 55.485  
54.4476, 33.7591  
65.565, 43.8203  
GENE X4  
Condition 1, Condition 2  
75.9437, 176.821  
67.5357, 160.161  
71.1245, 179.389  
62.428, 158.122  
75.4315, 175.374  
83.8754, 167.701  
74.7865, 150.401  
73.3384, 131.67  
65.6628, 181.052  
65.6228, 185.589  
GENE X5  
Condition 1, Condition 2  
33.8185, 97.5678  
26.0127, 108.172

17.1503,125.626  
27.6886,112.134  
16.3156,116.943  
17.501,121.244  
31.0243,127.853  
56.9335,90.9783  
17.5177,97.5521  
41.7227,99.0768

CH18B016

GENE X1

Condition 1, Condition 2

-13.7438, 66.8091

39.9572, 58.5854

29.9343, 64.9934

15.9064, 53.592

16.2844, 70.3468

-7.26795, 59.4914

24.878, 55.4932

9.50204, 54.4283

49.7334, 53.3622

25.7777, 55.8949

GENE X2

Condition 1, Condition 2

99.2885, 122.347

88.5406, 79.0882

109.662, 67.5617

113.967, 90.7382

98.7432, 91.6634

122.275, 82.2485

107.645, 76.3313

101.324, 90.4184

103.013, 86.1452

67.8646, 79.2456

GENE X3

Condition 1, Condition 2

17.1929, 106.7

12.682, 125.284

3.831, 96.5599

15.0885, 121.626

3.72287, 112.85

-1.96918, 107.67

3.84604, 108.559

4.15701, 119.848

6.96493, 125.9

20.7887, 107.186

GENE X4

Condition 1, Condition 2

52.3036, 81.2387

53.914, 68.956

22.0811, 82.8281

42.5692, 82.2434

21.2475, 68.0693

42.0866, 61.5199

35.514, 52.0816

48.0494, 59.0978

30.1214, 62.2082

16.4435, 72.2144

GENE X5

Condition 1, Condition 2

81.7095, 118.322

70.0633, 106.362

59.6538,112.883  
66.4025,118.738  
41.5343,145.755  
81.6444,113.896  
57.583,118.087  
67.1783,128.087  
75.482,130.398  
58.3301,119.539

CH18B018

GENE X1

Condition 1, Condition 2

72.1073, 163.925

59.4857, 189.394

62.5239, 150.683

54.5469, 194.194

42.1787, 178.348

55.0504, 193.172

25.3663, 186.893

63.8347, 169.392

72.8003, 193.757

42.4464, 167.414

GENE X2

Condition 1, Condition 2

1.51765, 141.138

-15.3354, 118.077

8.2521, 163.493

4.15238, 158.561

-2.46478, 152.659

7.59587, 187.192

6.47492, 137.436

18.6837, 149.477

-8.02563, 127.428

1.81556, 156.736

GENE X3

Condition 1, Condition 2

-7.36232, 77.1182

6.65804, 49.4305

-1.21001, 84.4855

-5.27987, 56.62

6.61887, 104.082

-16.2613, 33.7059

31.9742, 39.7081

1.81756, 39.2431

9.92824, 48.3843

5.80748, 46.0269

GENE X4

Condition 1, Condition 2

-2.70483, 139.249

40.2651, 127.28

34.2258, 155.862

47.9434, 137.213

21.1781, 153.362

28.0034, 131.8

27.3706, 114.824

42.4232, 156.195

36.0693, 142.172

27.9308, 172.619

GENE X5

Condition 1, Condition 2

82.0859, 171.506

48.7878, 180.164

69.2804,144.919  
53.3317,129.054  
68.373,170.254  
61.1109,179.887  
74.9077,120.739  
71.7615,147.564  
69.0289,148.283  
45.9447,138.657

CH18B027

GENE X1

Condition 1, Condition 2

82.5646,-1.32817

58.0855,12.1294

50.2862,20.0711

64.9738,38.244

65.0602,41.0862

51.4798,23.4772

66.3013,4.01805

67.2443,40.7777

66.8866,44.7767

60.8372,22.2555

GENE X2

Condition 1, Condition 2

73.3207,14.3019

83.507,35.284

56.4761,7.54294

73.0149,4.45914

76.8019,21.7514

63.0714,4.95108

64.2146,27.7991

53.2747,5.38049

77.2295,4.72828

87.0454,9.30309

GENE X3

Condition 1, Condition 2

67.4479,71.654

51.9178,76.235

79.4907,85.5198

86.5214,78.8942

85.2486,91.595

65.4097,96.6387

43.0759,77.2185

84.2479,91.9258

77.5298,65.4948

41.5142,75.6155

GENE X4

Condition 1, Condition 2

40.2901,182.138

38.6441,176.364

33.7561,198.988

40.8149,165.003

31.4452,180.596

43.7118,170.807

64.2972,224.715

37.842,200.769

43.6385,197.197

33.5676,188.384

GENE X5

Condition 1, Condition 2

64.8005,94.9796

71.0837,118.502

73.5249,147.496  
77.2342,144.062  
69.6644,120.009  
70.3711,103.125  
83.4859,131.857  
77.5294,109.535  
59.5918,141.081  
74.2666,116.149

CH18B031  
GENE X1  
Condition 1, Condition 2  
9.16832, 195.915  
20.7249, 172.445  
9.99529, 177.403  
4.23268, 153.461  
37.6329, 186.728  
27.3733, 155.173  
5.98728, 152.011  
20.6674, 151.137  
12.0714, 193.223  
18.2092, 165.033  
GENE X2  
Condition 1, Condition 2  
78.5295, 182.306  
80.844, 205.476  
106.721, 176.879  
95.8432, 214.27  
77.3978, 188.575  
82.4872, 197.352  
111.804, 192.711  
86.1463, 208.255  
91.5058, 180.202  
83.8819, 184.581  
GENE X3  
Condition 1, Condition 2  
60.2307, 49.8901  
64.0946, 47.676  
61.6751, 33.636  
72.7394, 56.8114  
58.6208, 45.1227  
58.6778, 39.8156  
55.7987, 56.8769  
62.0845, 52.9845  
61.6046, 54.9263  
60.7424, 34.2356  
GENE X4  
Condition 1, Condition 2  
57.0156, 4.48386  
53.5382, -6.19917  
48.8306, 7.26928  
42.2978, 22.0518  
46.4866, 6.50916  
58.6784, 12.0102  
54.2333, 10.7935  
49.4838, 7.59342  
32.7059, 16.9468  
45.7019, -1.7755  
GENE X5  
Condition 1, Condition 2  
60.0624, 129.923  
53.4615, 169.486

63.5656,135.813  
45.6366,172.636  
60.3127,149.519  
56.7144,135.583  
61.0493,159.787  
58.5767,151.987  
49.6085,163.18  
60.6366,140.311

CH18B043

GENE X1

Condition 1, Condition 2

18.271, 57.0324

14.6604, 85.4263

-12.4417, 104.599

21.1021, 85.1323

-15.4175, 99.4312

27.777, 90.5042

3.64816, 70.6545

5.69591, 79.9504

18.4909, 76.9382

16.9309, 41.7849

GENE X2

Condition 1, Condition 2

46.9952, 165.468

47.8443, 165.725

57.7964, 167.822

47.4535, 175.093

75.2416, 154.788

60.7569, 162.694

57.4637, 172.474

67.2982, 173.627

60.1646, 166.024

46.0148, 182.221

GENE X3

Condition 1, Condition 2

26.2427, 38.5034

28.9837, 64.0617

37.9087, 15.0262

27.7242, 35.9436

49.5639, 46.563

23.1786, 38.5879

20.2261, 24.8182

27.9908, 5.27781

42.3232, 33.8468

26.3769, 28.8428

GENE X4

Condition 1, Condition 2

3.01123, 47.2106

7.19832, 47.846

6.20009, 25.9529

5.71391, 32.048

0.710124, 30.0735

0.292763, 51.0883

10.603, 48.4909

3.68556, 4.4016

3.10773, 67.6729

4.486, 64.5162

GENE X5

Condition 1, Condition 2

42.3615, 61.2352

21.4181, 66.3107

27.5537,61.3004  
36.3487,51.5126  
15.2216,64.6316  
29.7493,70.2788  
22.2338,65.3744  
9.56691,65.0916  
23.8298,55.7897  
42.28,62.8035

CH18B047  
GENE X1  
Condition 1, Condition 2  
22.349,133.79  
33.1739,226.394  
19.553,177.826  
-1.04237,227.036  
16.2072,167.461  
33.0372,197.224  
-4.73586,182.841  
14.2287,195.999  
15.8484,217.575  
21.7366,198.241  
GENE X2  
Condition 1, Condition 2  
89.5185,69.4754  
99.4896,125.605  
84.7663,108.261  
134.27,117.698  
116.498,78.9846  
110.831,110.288  
98.0641,102.919  
93.6221,61.7829  
93.1745,101.147  
87.2539,105.06  
GENE X3  
Condition 1, Condition 2  
96.2468,82.3641  
67.4043,94.9133  
82.124,66.917  
82.3004,59.2008  
49.9067,85.0887  
79.9121,94.2466  
69.1919,78.5148  
85.5554,59.6333  
63.8058,77.4127  
63.4171,65.3545  
GENE X4  
Condition 1, Condition 2  
-9.77447,181.082  
39.1914,189.71  
16.0184,170.612  
-18.4369,196.956  
44.2505,197.671  
27.8954,172.815  
11.7194,194.61  
15.5236,187.848  
30.8562,184.857  
11.3392,193.44  
GENE X5  
Condition 1, Condition 2  
97.7148,206.501  
105.417,182.126

92.7203,174.994  
82.7612,170.506  
102.603,163.902  
102.898,179.47  
101.635,220.623  
84.9164,214.293  
89.6976,197.336  
100.348,197.775

CH18B050  
GENE X1  
Condition 1, Condition 2  
14.9594, 73.8068  
21.398, 66.0083  
15.3358, 49.5562  
7.5983, 62.1589  
10.4111, 56.4666  
29.1489, 51.7435  
24.8226, 43.1841  
28.1245, 77.4155  
12.0261, 45.2158  
9.10645, 52.7338  
GENE X2  
Condition 1, Condition 2  
90.9869, 134.286  
78.1793, 103.004  
72.556, 96.3214  
69.4182, 101.561  
76.5599, 110.129  
74.3674, 131.737  
91.2679, 96.1366  
87.9866, 115.733  
72.8467, 121.309  
82.5084, 97.7295  
GENE X3  
Condition 1, Condition 2  
53.7738, 43.1312  
41.5038, 2.58441  
54.0209, 43.7179  
48.2423, 20.5302  
42.7282, 62.6864  
53.9229, 36.6745  
47.6339, 75.0195  
49.0537, 43.4434  
42.0715, 17.914  
50.6262, 53.352  
GENE X4  
Condition 1, Condition 2  
13.8629, 35.9899  
36.5921, 20.6756  
32.8824, 35.2246  
26.498, 37.5583  
24.3518, 31.3375  
53.7824, 14.6621  
41.4961, 25.8337  
26.5549, 32.42  
38.1572, 11.1374  
45.0854, 24.2213  
GENE X5  
Condition 1, Condition 2  
93.7894, 113.444  
69.7992, 103.898

98.9702,111.785  
87.6749,120.913  
82.8235,90.0596  
81.3069,127.568  
85.4004,110.869  
98.3879,135.28  
56.8177,119.693  
93.7652,127.653

CH18B053  
GENE X1  
Condition 1, Condition 2  
80.9869, 107.019  
78.9463, 131.637  
97.8805, 119.54  
99.3168, 142.224  
90.1953, 118.35  
74.6917, 128.842  
71.5269, 110.222  
83.6779, 119.394  
79.08, 143.961  
90.605, 110.627  
GENE X2  
Condition 1, Condition 2  
-12.9922, 130.02  
-13.4309, 143.766  
-15.0146, 129.124  
34.1159, 129.007  
11.8563, 125.638  
1.7419, 146.773  
13.8937, 120.025  
0.061538, 145.706  
-1.74735, 122.302  
1.01072, 132.696  
GENE X3  
Condition 1, Condition 2  
68.7205, 8.00457  
82.7432, 5.30247  
86.144, -16.1421  
71.6413, -11.067  
79.6693, -7.46185  
65.5558, 11.2625  
85.0386, -16.6354  
78.3976, 50.9967  
81.7697, -13.2516  
77.9703, 7.88075  
GENE X4  
Condition 1, Condition 2  
98.6756, 196.159  
97.0579, 156.738  
91.487, 177.743  
79.6383, 165.505  
78.9952, 158.03  
92.6699, 171.006  
92.2019, 169.461  
97.227, 199.549  
80.9524, 195.847  
99.0624, 148.1  
GENE X5  
Condition 1, Condition 2  
26.2012, 78.7685  
27.0584, 85.9918

27.8811,81.8433  
23.0958,88.0374  
6.26342,112.199  
12.1764,105.927  
29.3762,89.9242  
15.5266,105.625  
7.56708,78.2067  
1.78306,99.1984

CH18B054  
GENE X1  
Condition 1, Condition 2  
-4.08728, 81.8031  
6.6436, 106.662  
15.1112, 104.152  
23.9467, 113.041  
21.4104, 81.1037  
26.6057, 108.199  
24.2404, 83.6609  
-0.208011, 84.8617  
-17.0947, 114.567  
15.389, 91.5534  
GENE X2  
Condition 1, Condition 2  
20.9707, 91.1459  
31.7088, 89.9768  
27.2404, 109.695  
-17.012, 96.9501  
16.6612, 88.3273  
3.12531, 97.9375  
0.0445687, 74.5666  
21.5927, 84.2976  
17.1018, 43.3919  
15.003, 127.686  
GENE X3  
Condition 1, Condition 2  
87.2945, 85.7987  
77.7858, 39.991  
78.9227, 106.597  
71.8016, 96.5403  
78.3768, 67.1207  
88.5144, 62.9643  
80.0865, 48.669  
78.7326, 102.578  
83.83, 44.4998  
81.1087, 34.7879  
GENE X4  
Condition 1, Condition 2  
50.4242, 12.9693  
39.6008, 16.6296  
51.201, 18.7796  
83.8606, 10.0856  
68.838, 10.754  
64.9749, 12.6406  
38.579, 7.1096  
42.358, 12.1721  
53.0341, 25.4185  
63.3196, 3.16654  
GENE X5  
Condition 1, Condition 2  
40.9974, 89.6827  
25.2074, 116.595

20.44,98.7542  
17.1222,93.4545  
17.0044,100.465  
26.742,87.6066  
8.1336,104.411  
29.7595,77.7562  
21.3028,94.0133  
21.8309,97.491

CH18B057

GENE X1

Condition 1, Condition 2

53.9926, 57.7115

28.4667, 29.9855

31.934, 12.3541

24.0003, 38.2395

39.2778, 7.33721

51.5223, 6.22611

38.5281, 45.8867

33.7442, 6.86329

38.5143, 51.6438

20.9381, 19.124

GENE X2

Condition 1, Condition 2

68.0484, 120.068

44.5787, 165.135

63.4747, 127.527

55.0322, 127.962

80.5444, 115.79

86.493, 143.782

100.579, 119.705

61.9116, 127.956

36.7649, 106.446

79.3473, 74.8109

GENE X3

Condition 1, Condition 2

47.418, 184.804

47.7398, 182.336

30.7921, 165.462

34.9689, 182.056

56.9847, 186.456

25.5694, 195.87

34.6412, 177.817

29.0094, 204.526

50.0251, 181.045

37.0513, 190.323

GENE X4

Condition 1, Condition 2

87.7192, 181.112

113.763, 203.624

88.9767, 198.539

75.2415, 207.57

103.746, 199.232

107.768, 203.852

65.7104, 168.123

86.9821, 181.932

76.8874, 189.499

75.2869, 192.336

GENE X5

Condition 1, Condition 2

52.0264, 96.9189

74.4202, 60.7493

44.2829,88.4977  
50.345,89.8896  
43.1617,93.3853  
59.2972,57.6824  
48.6265,105.878  
57.1156,93.0849  
48.7953,68.7047  
51.2072,66.9088

CH18B063  
GENE X1  
Condition 1, Condition 2  
8.88415, 208.229  
3.81545, 179.202  
10.7258, 182.389  
1.96185, 222.011  
12.5069, 184.411  
12.0422, 178.168  
10.5167, 207.28  
13.824, 157.995  
12.474, 194.485  
7.29488, 196.394  
GENE X2  
Condition 1, Condition 2  
16.1166, 56.9512  
1.47139, 47.4285  
12.3405, 78.9769  
21.0248, 57.8666  
13.6647, 61.4059  
0.956538, 63.1417  
11.5402, 68.1814  
4.75893, 62.3848  
0.240665, 81.3965  
-0.304675, 27.0103  
GENE X3  
Condition 1, Condition 2  
80.2918, 156.475  
65.9588, 192.642  
80.6947, 150.084  
82.1997, 172.744  
77.8117, 205.029  
68.1846, 167.259  
71.2218, 198.132  
84.9825, 167.809  
68.0346, 138.26  
87.669, 205.619  
GENE X4  
Condition 1, Condition 2  
8.53061, 130.586  
26.7422, 119.902  
8.29536, 96.0352  
6.73147, 116.71  
4.53573, 127.425  
13.575, 113.626  
23.8616, 81.8875  
15.9081, 100.415  
8.48849, 113.537  
5.72369, 163.588  
GENE X5  
Condition 1, Condition 2  
57.4754, 11.9727  
76.8545, 20.9035

49.5129,30.5121  
56.509,23.3848  
60.2211,19.6498  
50.941,3.92437  
64.915,31.474  
65.1534,13.9392  
46.1362,17.1701  
68.6924,20.6552

CH18B064

GENE X1

Condition 1, Condition 2

40.0124, 103.914

30.3177, 122.111

40.582, 106.127

62.5158, 106.36

41.4652, 121.198

51.6412, 121.185

25.6934, 117.401

33.3184, 140.297

23.8425, 101.679

28.5099, 112.632

GENE X2

Condition 1, Condition 2

80.5006, 39.2471

70.9814, 30.2229

54.2793, 20.1

58.9036, 17.6673

69.6005, -6.75276

65.5292, -2.86454

73.4036, 15.0656

64.997, 10.1192

71.578, 51.5531

64.5064, 12.8866

GENE X3

Condition 1, Condition 2

31.3643, 140.011

17.5187, 121.8

7.98776, 142.56

15.6941, 147.362

15.2737, 170.672

10.7035, 165.815

19.593, 131.729

31.1475, 134.032

9.61012, 170.206

24.1882, 139.556

GENE X4

Condition 1, Condition 2

-17.6513, 20.0636

-5.79753, 52.5109

-7.50427, 69.8092

-4.72732, 47.1421

20.0082, 36.5633

-17.5568, 47.7003

14.6945, 67.7346

8.35083, 55.808

20.4452, 60.1776

8.69224, 41.4478

GENE X5

Condition 1, Condition 2

43.6668, 68.1535

82.5342, 85.8603

53.7064,85.3714  
44.9436,76.5432  
79.3263,75.2877  
63.8647,119.054  
47.3603,103.057  
63.6795,77.8925  
63.0442,93.5988  
50.5482,82.2943

CH18B066  
GENE X1  
Condition 1, Condition 2  
64.0087, 138.179  
42.7136, 129.016  
61.9457, 120.704  
58.6472, 118.386  
83.4442, 114.424  
78.4644, 120.357  
109.656, 112.704  
96.9808, 129.468  
89.849, 132.092  
71.7608, 124.367  
GENE X2  
Condition 1, Condition 2  
12.3275, 158.124  
4.57117, 163.516  
-3.64786, 146.248  
-8.73828, 115.006  
4.94312, 159.73  
21.7911, 121.129  
26.4099, 125.081  
6.18795, 156.022  
27.5595, 138.024  
4.97999, 130.255  
GENE X3  
Condition 1, Condition 2  
82.1804, 133.008  
87.7014, 122.694  
87.1186, 116.315  
82.7055, 111.809  
85.3258, 115.398  
82.5538, 130.664  
83.989, 122.507  
82.6726, 113.736  
85.3961, 126.668  
96.5432, 127.088  
GENE X4  
Condition 1, Condition 2  
17.2248, 124.681  
13.3291, 232.916  
23.4061, 173.962  
13.373, 206.017  
-6.01195, 181.048  
24.711, 162.339  
24.9022, 201.865  
7.414, 192.636  
1.48665, 179.126  
39.7396, 155.317  
GENE X5  
Condition 1, Condition 2  
47.7263, 50.7674  
30.9741, 53.8892

38.5661,51.7213  
46.2743,20.2521  
47.0415,112.017  
51.5685,60.8956  
37.1981,64.3608  
26.1115,57.1615  
27.1862,49.3751  
46.6226,87.0003

CH18B102  
GENE X1  
Condition 1, Condition 2  
49.8703, 79.8109  
36.7273, 91.6267  
29.9488, 78.4889  
45.4694, 80.0336  
17.0281, 97.2636  
3.19451, 93.327  
50.1815, 68.0803  
28.5106, 61.4752  
11.2714, 66.6219  
32.0793, 84.4948  
GENE X2  
Condition 1, Condition 2  
22.6706, 64.5306  
27.3794, 73.3739  
21.0224, 78.3697  
19.0096, 66.6455  
31.6765, 68.492  
26.9297, 73.5637  
18.5532, 64.2507  
25.7303, 80.4393  
26.4353, 71.2775  
21.6285, 71.3966  
GENE X3  
Condition 1, Condition 2  
91.688, 142.346  
92.9706, 121.893  
79.7191, 108.705  
112.456, 124.129  
94.6852, 119.615  
85.4188, 118.626  
97.4278, 126.829  
105.202, 131.238  
104.361, 121.718  
75.5151, 117.531  
GENE X4  
Condition 1, Condition 2  
55.6039, 196.135  
52.3996, 196.389  
46.1977, 214.282  
58.49, 187.297  
55.5314, 209.969  
47.4033, 196.578  
53.7485, 176.903  
50.5467, 197.291  
41.2802, 196.057  
48.894, 204.909  
GENE X5  
Condition 1, Condition 2  
14.2159, 162.889  
7.07233, 190.466

18.2716,209.524  
6.1578,212.906  
4.01394,205.25  
16.2035,182.907  
8.37764,205.029  
1.04113,186.988  
-5.62036,207.567  
14.1124,238.606

CH18B109  
GENE X1  
Condition 1, Condition 2  
47.9173, 157.293  
56.1682, 141.015  
45.3809, 157.759  
41.4971, 138.976  
54.3355, 171.309  
40.6154, 134.061  
46.8761, 186.623  
46.3802, 142.713  
40.0914, 137.557  
42.5979, 107.531  
GENE X2  
Condition 1, Condition 2  
11.7358, 90.7475  
-6.33452, 89.4888  
11.0798, 76.7554  
9.04247, 73.3074  
11.8123, 98.3429  
12.4564, 68.3676  
6.54767, 85.4257  
23.8859, 89.6201  
9.35173, 56.0584  
15.5948, 101.685  
GENE X3  
Condition 1, Condition 2  
70.9925, 20.5104  
75.2886, 59.0009  
78.456, 43.3174  
83.7394, 46.2687  
69.5753, -5.13407  
69.6624, 22.4134  
56.722, 29.268  
61.0134, 39.6151  
74.3477, 25.2626  
66.4867, 38.6377  
GENE X4  
Condition 1, Condition 2  
47.0152, 82.306  
32.8303, 36.1395  
64.2752, 44.9378  
40.9056, 58.043  
48.3893, 69.7496  
61.3529, 36.4641  
33.7012, 54.5838  
48.7158, 51.7884  
37.8408, 43.2703  
49.4959, 44.1879  
GENE X5  
Condition 1, Condition 2  
7.33809, 80.6614  
5.09874, 62.6198

3.51827,111.77  
10.6312,97.3725  
3.96624,98.0476  
10.9871,106.762  
2.26477,73.2033  
11.3531,66.728  
6.46106,94.5529  
6.04254,99.8512

CH18B116  
GENE X1  
Condition 1, Condition 2  
83.4057, 40.5246  
94.9218, 19.3732  
49.1696, 1.80862  
73.4069, 30.1355  
76.3625, 54.0959  
88.9997, 46.4688  
68.4829, 19.9956  
58.665, 41.3527  
71.6468, 38.5303  
65.501, 33.5159  
GENE X2  
Condition 1, Condition 2  
67.0955, 143.548  
40.1894, 151.91  
50.4409, 141.579  
60.1354, 161.368  
75.9624, 144.969  
45.777, 146.682  
52.9028, 203.39  
57.7549, 139.943  
61.5821, 143.836  
62.0478, 123.756  
GENE X3  
Condition 1, Condition 2  
53.0274, 109.84  
62.5123, 110.408  
44.1371, 128.153  
47.5078, 104.98  
54.0703, 115.046  
42.2476, 98.0381  
46.7362, 89.1387  
64.7823, 133.002  
55.2825, 95.3894  
70.9632, 107.096  
GENE X4  
Condition 1, Condition 2  
28.1938, 149.186  
30.6122, 150.069  
-11.2038, 177.798  
27.0451, 146.828  
8.60525, 152.563  
36.4349, 128.318  
7.95411, 145.361  
33.6209, 141.044  
1.99427, 157.12  
2.1097, 137.57  
GENE X5  
Condition 1, Condition 2  
83.0527, 48.737  
90.3299, 73.4942

98.9741,52.692  
98.6949,65.083  
97.1363,61.1679  
84.0045,68.4201  
90.1433,65.1651  
106.902,74.3359  
112.991,71.7618  
102.272,64.0008

CH19B012  
GENE X1  
Condition 1, Condition 2  
83.8123, 193.972  
85.9047, 185.626  
90.8695, 194.965  
81.1143, 179.804  
52.1205, 134.6  
101.032, 163.152  
68.5772, 153.308  
68.0131, 144.087  
72.94, 168.317  
82.1615, 125.025  
GENE X2  
Condition 1, Condition 2  
89.1505, 179.82  
81.9757, 178.591  
91.6214, 172.476  
73.6199, 191.699  
83.2282, 158.522  
95.4191, 191.636  
81.8826, 133.711  
80.749, 164.093  
78.3087, 172.182  
71.553, 125.533  
GENE X3  
Condition 1, Condition 2  
59.8802, 46.2673  
66.0461, 34.823  
65.3827, 27.7652  
60.9049, 43.1066  
55.6035, 63.1318  
83.2014, 44.3339  
82.518, 32.679  
86.2055, 51.8562  
77.8029, 55.2643  
60.8889, 63.9493  
GENE X4  
Condition 1, Condition 2  
55.0185, 99.97  
66.97, 67.9625  
45.4371, 57.4885  
70.7693, 81.4036  
59.4004, 80.698  
61.5026, 86.0717  
71.8889, 104.909  
55.1549, 50.445  
68.8163, 56.9011  
54.995, 50.4672  
GENE X5  
Condition 1, Condition 2  
63.5316, 132.507  
54.5044, 130.178

70.8167,140.102  
79.1331,118.297  
66.8053,120.002  
64.3414,151.985  
56.314,130.922  
72.3087,141.639  
79.8908,116.817  
65.4179,151.447

CS17B001  
GENE X1  
Condition 1, Condition 2  
76.981, 115.314  
67.3732, 102.743  
65.6779, 112.22  
69.1136, 121.781  
67.6901, 92.1551  
72.6686, 101.085  
67.9552, 124.882  
67.0855, 99.9453  
63.6152, 126.546  
75.5454, 100.326  
GENE X2  
Condition 1, Condition 2  
-11.2444, 61.636  
-16.6032, 31.0112  
18.982, 13.5042  
33.4997, 46.9439  
-6.66946, 40.8058  
9.88725, 14.4939  
-5.39023, 71.0135  
1.87547, 26.9067  
6.97822, 30.7831  
2.53335, 11.2613  
GENE X3  
Condition 1, Condition 2  
38.6957, 55.9576  
8.23272, 60.7027  
13.3046, 43.9558  
21.0053, 59.4104  
52.3081, 40.7329  
18.3512, 50.5563  
4.74184, 37.5758  
20.676, 46.374  
16.2297, 32.7587  
9.2849, 69.4947  
GENE X4  
Condition 1, Condition 2  
106.757, 194.274  
83.1562, 161.211  
66.9987, 177.593  
87.7135, 167.873  
99.3826, 207.118  
63.8171, 174.617  
88.5796, 168.12  
65.0356, 181.59  
104.497, 182.948  
99.2952, 185.459  
GENE X5  
Condition 1, Condition 2  
69.1624, 7.70663  
113.767, 5.58219

102.186,10.4694  
88.3666,-4.74824  
102.498,13.3357  
98.7919,11.6223  
88.5057,-14.3534  
101.05,5.53735  
98.1074,6.39145  
90.0878,15.1785

CS17B002

GENE X1

Condition 1, Condition 2

81.4855, 126.142

89.7251, 107.371

102.282, 106.452

94.7785, 113.799

100.344, 107.7

82.5518, 114.135

101.064, 120.798

88.5109, 126.515

94.7962, 140.712

85.288, 132.33

GENE X2

Condition 1, Condition 2

-2.77289, 83.7425

14.8759, 25.3686

24.8418, 83.9493

1.98983, 91.9251

9.37036, 55.5879

17.3485, 85.6131

6.0283, 77.2658

9.89448, 89.6766

12.0737, 42.2642

12.1336, 45.5876

GENE X3

Condition 1, Condition 2

43.2832, 43.843

29.6783, 45.5846

60.353, 43.3735

11.0803, 24.6599

38.7751, 30.1027

52.5145, 31.0304

23.7147, 36.9376

43.3439, 20.7141

40.8626, 58.4833

28.7306, 51.5269

GENE X4

Condition 1, Condition 2

90.754, 10.4843

91.8761, 27.2323

95.6692, 17.682

100.141, 25.0289

98.199, 17.6183

83.7671, 19.8204

103.374, 41.2669

94.3517, 22.1673

89.204, 18.668

78.6631, 61.2585

GENE X5

Condition 1, Condition 2

28.5646, 138.252

22.9808, 148.469

23.0081,143.992  
48.2494,142.618  
34.2715,157.805  
29.0854,152.349  
42.4548,149.059  
41.069,154.169  
42.3035,150.206  
35.1547,154.312

CS17B008  
GENE X1  
Condition 1, Condition 2  
34.0592, 47.4805  
49.2498, 57.8954  
51.9888, 64.7956  
30.5927, 83.455  
25.5098, 12.0101  
50.7847, 62.9748  
35.935, 45.6079  
34.3353, 24.5725  
52.6793, 67.391  
48.4135, 84.2431  
GENE X2  
Condition 1, Condition 2  
93.7402, 134.019  
92.4152, 160.622  
111.397, 152.138  
112.906, 169.555  
120.925, 166.138  
69.7136, 166.055  
87.2727, 153.347  
102.416, 135.539  
101.747, 161.192  
108.035, 146.322  
GENE X3  
Condition 1, Condition 2  
39.0058, 128.289  
33.0169, 123.034  
42.2168, 127.956  
35.8263, 127.893  
25.5452, 126.598  
42.9785, 130.892  
34.5297, 122.047  
12.6971, 143.006  
19.6169, 127.371  
24.4228, 143.475  
GENE X4  
Condition 1, Condition 2  
16.8806, 168.759  
16.0568, 124.789  
18.1672, 137.978  
10.1301, 141.322  
22.3704, 154.169  
32.5014, 137.339  
33.6253, 124.701  
-8.16859, 152.52  
-8.59818, 141.15  
6.27197, 143.957  
GENE X5  
Condition 1, Condition 2  
45.5419, 52.2368  
43.2395, 70.0776

46.1881,60.7792  
50.3177,57.3345  
48.7103,67.7942  
48.2564,72.8716  
46.6089,53.278  
37.8223,65.0234  
56.874,52.125  
52.5935,58.6434

CS17B010

GENE X1

Condition 1, Condition 2

23.2965, 50.2962

35.4599, 76.983

21.0404, 74.2129

22.7353, 82.4237

28.3071, 88.9793

43.0784, 80.8826

25.3878, 75.4668

45.2235, 100.065

24.5036, 80.5024

29.1913, 72.6488

GENE X2

Condition 1, Condition 2

52.2023, 33.8847

56.8838, 54.2532

45.8598, 44.5716

44.0579, 7.29708

41.6375, 41.8771

53.0829, -3.51786

53.6351, 60.7819

39.7266, 44.1809

52.3099, 29.1858

57.2373, 23.5947

GENE X3

Condition 1, Condition 2

-10.7853, 188.505

12.953, 141.832

-23.9583, 166.662

6.2704, 158.023

0.53575, 177.293

5.46291, 160.188

6.54542, 161.123

2.33423, 164.314

6.92769, 149.875

-0.954545, 161.084

GENE X4

Condition 1, Condition 2

42.1046, 193.597

39.8943, 173.346

39.9068, 168.716

42.2818, 193.991

41.4559, 187.911

42.0383, 178.029

42.4596, 198.401

40.132, 206.08

39.8975, 179.038

39.7161, 188.847

GENE X5

Condition 1, Condition 2

21.7311, 137.452

42.8789, 137.863

17.9448,170.263  
40.4621,160.271  
31.8832,146.944  
39.3239,158.771  
36.9966,136.658  
22.094,186.763  
38.9608,151.414  
20.3114,165.842

CS17B040  
GENE X1  
Condition 1, Condition 2  
37.1493, 179.195  
48.6068, 153.68  
56.5709, 187.691  
48.5454, 145.936  
53.9901, 177.492  
65.9094, 184.229  
44.0755, 202.658  
41.5401, 178.139  
46.1673, 148.556  
53.3586, 145.984  
GENE X2  
Condition 1, Condition 2  
74.6042, 195.096  
74.087, 175.319  
74.4787, 152.17  
69.608, 153.92  
74.0655, 164.503  
57.0532, 164.641  
47.3814, 174.95  
53.336, 174.494  
59.3535, 183.585  
50.2831, 177.758  
GENE X3  
Condition 1, Condition 2  
56.1942, -6.62619  
53.7675, 23.6637  
47.5222, 24.7435  
52.5499, 17.0407  
56.581, 17.9975  
56.227, 34.6236  
55.5641, 11.649  
54.5653, -17.9601  
52.2507, 2.62688  
61.1692, -1.05253  
GENE X4  
Condition 1, Condition 2  
81.5028, 117.698  
71.5248, 130.848  
75.7901, 129.053  
93.4813, 150.08  
102.662, 140.475  
92.5548, 119.789  
82.4274, 101.334  
93.2203, 132.203  
89.7358, 133.429  
82.722, 96.6013  
GENE X5  
Condition 1, Condition 2  
15.818, 69.269  
-6.80571, 94.5037

17.8768,101.334  
22.8499,73.3216  
15.4783,52.0801  
9.04814,80.5397  
28.2839,102.583  
13.0228,63.9832  
3.47075,73.6077  
4.02863,74.897

ED16B010  
GENE X1  
Condition 1, Condition 2  
68.0812, 9.61464  
52.4606, 4.40897  
51.4215, 26.2329  
67.4013, 35.882  
76.8372, 2.80792  
49.6547, 4.84779  
35.2702, 3.5206  
45.4579, 17.476  
70.4941, 19.8728  
5.86059, -3.22575  
GENE X2  
Condition 1, Condition 2  
84.645, 90.2279  
110.263, 78.4068  
78.8419, 113.545  
75.5086, 101.028  
86.5814, 141.702  
95.7923, 76.8759  
63.0387, 97.0372  
74.4233, 73.2391  
79.6831, 128.869  
74.4102, 94.5793  
GENE X3  
Condition 1, Condition 2  
4.16958, 141.657  
20.5489, 151.734  
19.7202, 150.744  
15.4855, 165.373  
7.08251, 160.432  
8.04709, 151.767  
5.79639, 155.025  
1.88016, 143.848  
5.76622, 146.14  
5.51559, 143.708  
GENE X4  
Condition 1, Condition 2  
43.3686, 174.043  
40.7573, 163.65  
43.0757, 150.099  
42.2362, 125.076  
19.6546, 151.218  
33.1755, 182.287  
30.9645, 176.386  
32.2578, 175.975  
49.4867, 178.785  
39.901, 158.976  
GENE X5  
Condition 1, Condition 2  
65.5016, 133.729  
67.6789, 135.635

45.2228,92.876  
84.111,123.858  
66.237,105.266  
75.0607,86.6794  
67.8345,86.4869  
54.3349,105.228  
48.2793,100.187  
74.6053,65.5168

ED16B013  
GENE X1  
Condition 1, Condition 2  
25.776, 72.0975  
23.0187, 96.5949  
4.53252, 96.5105  
26.5352, 62.2959  
31.4833, 88.8902  
25.5516, 57.5665  
75.6074, 62.211  
31.4717, 70.6164  
3.49351, 60.63  
26.7747, 68.0143  
GENE X2  
Condition 1, Condition 2  
85.7149, 163.961  
94.7952, 151.63  
76.7537, 150.851  
94.4592, 161.715  
91.6595, 160.549  
89.4762, 152.334  
85.8365, 164.89  
83.9974, 166.195  
99.3054, 146.517  
87.3816, 150.983  
GENE X3  
Condition 1, Condition 2  
97.8061, 101.327  
84.5149, 93.2599  
89.8383, 100.746  
99.5207, 109.368  
93.4126, 95.5502  
72.8427, 104.811  
84.6678, 114.754  
90.6906, 117.509  
85.2089, 89.9328  
90.3772, 90.4779  
GENE X4  
Condition 1, Condition 2  
60.9686, 108.595  
48.6718, 59.0629  
50.8426, 84.5442  
45.5807, 90.1652  
62.4902, 73.255  
52.6655, 58.6488  
44.2514, 64.0835  
54.8571, 41.1285  
50.2888, 77.2408  
35.7374, 84.3157  
GENE X5  
Condition 1, Condition 2  
8.18566, 85.5052  
-0.583616, 116.114

6.26106,100.475  
37.6999,115.403  
23.1342,96.8763  
1.77686,113.613  
31.9961,81.2934  
-6.93733,90.8303  
29.8752,111.198  
4.71156,80.0591

ED16B018  
GENE X1  
Condition 1, Condition 2  
92.3009, 76.2033  
76.8029, 91.9329  
71.7777, 63.7535  
88.7229, 68.4981  
82.015, 60.0558  
69.4848, 82.4776  
97.0858, 59.4394  
77.3304, 68.046  
91.5812, 68.7362  
97.1347, 73.733  
GENE X2  
Condition 1, Condition 2  
26.3018, 130.962  
30.6782, 146.408  
26.3768, 127.346  
36.1543, 115.29  
28.4885, 156.114  
50.9153, 152.806  
33.2182, 130.743  
18.3046, 157.046  
11.6053, 108.251  
30.4406, 102.76  
GENE X3  
Condition 1, Condition 2  
82.9678, 104.774  
73.8495, 87.6305  
84.0253, 105.416  
75.8194, 80.1533  
87.4732, 90.0651  
69.0305, 120.467  
91.6839, 69.5537  
71.8936, 80.1476  
107.999, 100.471  
72.2181, 100.345  
GENE X4  
Condition 1, Condition 2  
90.2473, 146.736  
111.844, 153.774  
90.3324, 153.18  
110.684, 158.002  
79.537, 159.224  
111.303, 163.868  
81.3542, 174.747  
94.2478, 146.093  
101.971, 140.455  
80.5229, 153.854  
GENE X5  
Condition 1, Condition 2  
49.7886, 58.5666  
-2.76366, 1.85596

43.0207,41.3436  
25.2985,38.7748  
38.3849,55.6055  
34.796,76.113  
22.3078,-10.8878  
32.656,18.8156  
14.7445,38.584  
31.4768,70.1981

ED16B023  
GENE X1  
Condition 1, Condition 2  
60.5641, 94.4582  
53.2746, 114.202  
58.0208, 133.582  
44.9814, 121.201  
71.1716, 130.342  
59.3171, 114.839  
51.9106, 94.1919  
51.0369, 107.627  
70.8173, 102.279  
49.7107, 107.035  
GENE X2  
Condition 1, Condition 2  
41.7378, 127.594  
22.5016, 138.831  
29.4765, 116.151  
39.9597, 119.083  
28.9281, 104.498  
16.9366, 92.9219  
35.0127, 126.674  
20.6736, 131.001  
30.3644, 137.144  
40.8129, 100.448  
GENE X3  
Condition 1, Condition 2  
9.4829, 62.6016  
22.5506, 85.422  
13.0126, 102.578  
8.54608, 119.616  
16.0697, 97.3837  
3.00419, 91.6309  
15.2478, 85.1081  
8.19296, 90.7794  
-9.64336, 137.816  
15.0427, 96.3098  
GENE X4  
Condition 1, Condition 2  
13.5978, 111.553  
5.42927, 94.2628  
9.17305, 107.116  
8.7098, 106.753  
9.54347, 114.739  
17.7173, 91.7884  
10.5188, 122.351  
10.5812, 127.376  
3.71193, 113.2  
5.28752, 118.037  
GENE X5  
Condition 1, Condition 2  
63.8969, 198.808  
66.6475, 192.198

60.3851,200.423  
65.3151,204.002  
73.5371,205.491  
69.0821,179.113  
67.5434,199.048  
62.5766,222.968  
57.2462,188.524  
72.0105,186.125

ED16B046

GENE X1

Condition 1, Condition 2

50.3743, 192.892

58.4048, 177.058

39.1139, 225.912

69.7985, 203.064

50.221, 185.303

46.7182, 235.089

49.0496, 168.915

33.7325, 201.794

51.6747, 232.489

53.2266, 202.232

GENE X2

Condition 1, Condition 2

39.1504, 74.5157

56.1071, 82.6061

59.4302, 72.5882

52.3015, 85.0739

56.7666, 74.3692

47.8497, 85.1928

53.2102, 87.957

46.8345, 71.8658

58.0447, 98.2362

60.1387, 72.0608

GENE X3

Condition 1, Condition 2

0.480909, 40.2759

-5.56398, 23.5603

9.31561, 25.5291

15.738, 52.5056

-2.58389, 51.4372

7.65297, 39.2025

10.3828, 38.0555

14.9757, 26.4062

-11.0787, 50.2883

-16.665, 34.1426

GENE X4

Condition 1, Condition 2

56.3334, 55.4188

69.9973, 70.1717

62.8048, 49.6648

78.8089, 65.1649

82.2902, 43.7639

78.638, 70.9341

82.425, 65.3445

86.3627, 63.4913

63.0831, 59.4187

45.6525, 50.6778

GENE X5

Condition 1, Condition 2

-13.8594, 151.42

-7.14294, 143.861

-4.069,138.476  
8.14051,132.338  
-17.3825,135.029  
-13.7457,127.741  
-8.66118,140.029  
28.0521,134.585  
-1.3178,144.044  
19.4429,140.964

EE16B125  
GENE X1  
Condition 1, Condition 2  
92.8287, 47.0701  
86.6405, 82.5779  
99.2966, 42.8304  
89.673, 37.0427  
95.2954, 65.3892  
97.2191, 56.8624  
94.5991, 68.6447  
99.4489, 82.6028  
89.3695, 68.1137  
96.1913, 59.6711  
GENE X2  
Condition 1, Condition 2  
52.3356, 69.5507  
72.1318, 88.8841  
57.1038, 68.1088  
56.6256, 85.475  
55.0729, 88.8539  
50.1994, 80.6399  
44.3425, 43.5887  
66.7458, 110.113  
58.4396, 91.125  
57.4595, 73.7302  
GENE X3  
Condition 1, Condition 2  
54.9706, 110.816  
38.4039, 126.191  
46.5729, 145.969  
62.1005, 160.338  
53.9616, 140.587  
42.0861, 138.828  
38.8548, 136.228  
57.9487, 131.027  
55.5982, 116.473  
49.2691, 139.268  
GENE X4  
Condition 1, Condition 2  
-6.92251, 147.758  
43.3368, 141.77  
-2.65783, 109.763  
8.3172, 143.876  
19.7034, 118.245  
-12.1881, 102.127  
10.1057, 148.562  
0.9722, 111.835  
21.2508, 125.66  
6.41417, 125.912  
GENE X5  
Condition 1, Condition 2  
21.4072, 120.405  
19.0984, 129.382

24.8073,133.635  
31.7791,130.937  
15.6115,154.848  
26.7637,133.189  
19.8377,111.653  
27.4376,137.304  
31.7485,87.2134  
32.3697,129.055

EE16B130

GENE X1

Condition 1, Condition 2

30.3722, 125.807

24.2204, 136.176

40.0723, 148.503

35.1007, 151.356

36.4387, 132.595

38.7359, 141.598

27.7465, 132.125

40.2704, 136.113

40.9694, 126.745

34.219, 121.258

GENE X2

Condition 1, Condition 2

109.715, 171.976

94.9317, 185.352

77.4723, 161.774

69.2186, 168.905

96.0918, 176.798

91.8868, 180.676

83.3609, 166.466

102.383, 191.657

85.1454, 165.732

101.304, 189.915

GENE X3

Condition 1, Condition 2

19.1662, 122.154

26.2252, 136.009

17.0013, 119.794

26.3322, 122.697

20.9017, 103.052

35.951, 101.221

38.4557, 138.922

21.2621, 144.993

7.239, 145.427

24.4076, 109.101

GENE X4

Condition 1, Condition 2

59.8763, 74.8491

80.351, 109.686

93.6942, 120.67

61.0902, 88.9797

90.098, 104.897

114.032, 67.1776

93.9844, 42.5798

82.0977, 118.29

117.285, 110.788

69.4354, 101.903

GENE X5

Condition 1, Condition 2

-18.5452, 109.197

-7.1317, 128.743

18.7169,99.1412  
10.3364,87.1067  
22.4861,124.225  
21.2184,97.5944  
19.8178,107.012  
14.6841,114.084  
5.32995,133.28  
22.5872,95.7278

EE16B142

GENE X1

Condition 1, Condition 2

-3.14516, 204.195

31.8902, 201.715

-6.78109, 174.869

7.03688, 173.145

-9.82032, 202.29

-7.93381, 203.89

0.549995, 218.582

21.8779, 201.935

6.6988, 184.1

-16.3735, 193.503

GENE X2

Condition 1, Condition 2

38.2008, 198.317

11.3872, 158.844

19.3058, 172.995

15.6984, 190.233

13.9433, 153.715

44.4364, 190.335

23.6301, 180.803

33.1075, 182.218

18.2051, 192.513

37.7083, 198.946

GENE X3

Condition 1, Condition 2

24.4243, 199.776

24.3425, 186.338

0.679433, 196.941

5.9672, 174.696

36.7285, 192.729

26.3203, 227.67

53.0051, 191.78

31.4822, 210.753

26.5401, 200.723

7.51026, 182.585

GENE X4

Condition 1, Condition 2

43.7368, 47.1151

33.1743, 58.6273

39.9407, 55.045

31.0805, 54.403

38.498, 55.3756

38.9343, 43.0926

32.7432, 58.8281

34.682, 53.3194

54.4622, 55.8802

50.7817, 51.1586

GENE X5

Condition 1, Condition 2

3.23646, 15.1821

26.2575, 42.4858

45.5794,18.5182  
9.51234,14.6618  
7.08532,28.5557  
2.99804,24.9041  
17.3255,33.205  
6.03224,17.9525  
3.45955,35.8726  
36.3398,44.546

EE16B146

GENE X1

Condition 1, Condition 2

90.5936, 58.4261

95.3565, 71.0378

90.9404, 59.6477

82.4696, 64.7289

87.6001, 67.4872

102.413, 67.8079

81.209, 53.6505

85.7092, 48.4532

80.6864, 65.2055

98.9938, 65.3566

GENE X2

Condition 1, Condition 2

56.1005, 186.371

42.9609, 176.633

32.7435, 154.13

40.8065, 157.137

48.2944, 170.218

35.0283, 172.101

47.6589, 163.852

26.7396, 156.92

36.8764, 166.561

37.9953, 165.693

GENE X3

Condition 1, Condition 2

31.802, 86.4198

24.3042, 78.2128

65.6514, 85.5965

35.3495, 51.9949

11.6942, 73.6058

25.4062, 84.3487

10.0738, 106.004

14.9976, 79.7569

28.6653, 73.834

33.078, 53.3582

GENE X4

Condition 1, Condition 2

49.936, 26.863

44.1208, 19.5052

52.0494, 20.1874

21.5193, 22.263

60.2609, 21.0221

36.4813, -8.07554

45.1432, 1.76681

55.8645, 15.5859

33.181, 1.38407

49.7333, 29.0665

GENE X5

Condition 1, Condition 2

26.1266, 111.322

38.2306, 88.185

23.7731,152.31  
54.9357,103.448  
65.8074,118.796  
56.4225,133.597  
58.0757,95.4941  
22.7923,122.494  
45.1534,118.031  
54.1102,68.3087

EE16B148

GENE X1

Condition 1, Condition 2

61.3774, 150.974

28.1351, 116.708

23.8956, 134.763

22.659, 162.927

43.7366, 148.629

5.351, 165.027

21.0097, 116.059

29.4872, 159.689

26.291, 136.691

-0.512525, 166.19

GENE X2

Condition 1, Condition 2

89.2422, 107.998

88.8156, 88.071

102.258, 95.6475

123.279, 60.4226

105.332, 93.4346

116.013, 73.8411

77.5036, 36.8741

114.757, 95.2969

107.759, 89.5714

92.4143, 121.865

GENE X3

Condition 1, Condition 2

91.5638, 151.422

70.7073, 154.623

81.58, 144.524

107.741, 119.625

92.5307, 151.611

67.1291, 134.758

74.4502, 168.028

59.0513, 139.795

75.7525, 130.621

64.8925, 135.247

GENE X4

Condition 1, Condition 2

38.2529, 75.1014

47.4144, 41.3388

36.8709, 84.4325

52.0897, 25.2579

40.5778, 83.8863

46.0236, 53.1415

39.8822, 97.3635

46.0496, 77.0512

46.0161, 68.1398

40.3406, 62.0491

GENE X5

Condition 1, Condition 2

74.9253, 154.903

84.347, 163.53

82.3908,164.906  
81.78,168.052  
80.8114,172.727  
93.3758,147.284  
74.4165,157.309  
71.0513,154.172  
69.4153,158.726  
81.5261,149.855

EE17B007  
GENE X1  
Condition 1, Condition 2  
99.8934, 60.5049  
85.5518, 41.4036  
81.1763, 43.9777  
100.159, 94.0665  
83.7441, 73.8937  
88.8534, 108.295  
88.5698, 81.0141  
75.5524, 63.2528  
95.5691, 77.2008  
80.9963, 70.4346  
GENE X2  
Condition 1, Condition 2  
7.71581, 99.257  
18.5147, 113.078  
23.487, 83.5921  
28.452, 96.61  
15.4025, 105.41  
11.8861, 112.197  
10.899, 102.209  
21.3513, 100.673  
20.2717, 111.292  
42.2009, 89.4041  
GENE X3  
Condition 1, Condition 2  
66.265, 77.8501  
99.1119, 75.1571  
116.195, 96.7795  
91.2086, 108.278  
97.7312, 117.53  
102.638, 93.4161  
90.3779, 75.6409  
106.239, 70.67  
132.269, 94.0502  
102.683, 105.763  
GENE X4  
Condition 1, Condition 2  
102.68, 66.7841  
79.9699, 89.5925  
108.405, 45.7559  
128.02, 97.0559  
84.5588, 76.6821  
80.9651, 91.764  
116.452, 76.6723  
79.1537, 75.1515  
65.1706, 54.7087  
93.3144, 48.0689  
GENE X5  
Condition 1, Condition 2  
-8.35968, 74.4094  
5.5294, 95.8296

14.4436,69.7628  
13.7124,86.406  
11.5366,111.232  
9.30747,116.8  
-0.285287,93.093  
11.9081,119.302  
0.905597,80.4585  
27.5548,96.1187

EE17B008

GENE X1

Condition 1, Condition 2

56.9785, 27.309

58.9604, -17.3171

70.7723, 46.2584

65.3716, 39.6463

64.0311, 67.274

54.3723, 13.6866

80.0608, 4.05351

67.2406, 12.2082

70.1365, 13.1936

69.739, 34.9488

GENE X2

Condition 1, Condition 2

72.5637, 17.2202

91.5606, 4.07042

69.5772, 19.3405

73.9334, 14.3562

80.7312, 23.8001

84.036, 13.8791

92.1806, 20.1223

95.8511, 31.4558

53.5242, -7.48581

74.2225, 36.9813

GENE X3

Condition 1, Condition 2

45.4348, 29.823

55.7255, -0.58229

60.1811, 39.1716

49.8609, 56.5572

44.4693, 18.6087

48.0967, 22.8985

54.214, 18.5177

57.0328, 29.6613

52.9579, 55.6878

57.5826, 4.44572

GENE X4

Condition 1, Condition 2

42.0927, 21.9434

52.1095, 7.77352

62.2072, 21.2104

58.703, 8.18158

54.1166, 10.1826

69.2794, 21.5089

41.8725, 18.1858

37.6157, 9.89478

55.0182, 12.6395

52.2454, 10.6461

GENE X5

Condition 1, Condition 2

16.968, 144.328

25.96, 130.718

26.2455,135.506  
17.6385,131.95  
23.6188,111.297  
27.8965,126.741  
8.82388,133.867  
25.4268,106.988  
26.0878,126.793  
13.5576,139.691

EE17B013  
GENE X1  
Condition 1, Condition 2  
25.0068, 65.0063  
19.418, 58.1896  
21.2223, 57.1323  
23.8264, 69.5868  
39.3674, 63.7297  
26.9302, 74.8628  
17.0229, 29.2867  
35.8912, 48.8341  
35.5104, 25.9809  
33.0852, 65.6152  
GENE X2  
Condition 1, Condition 2  
13.9193, 137.098  
23.6092, 131.585  
27.353, 129.041  
27.5871, 128.115  
37.2054, 138.92  
17.4654, 118.973  
17.9035, 134.226  
19.2148, 127.492  
11.6849, 136.678  
32.7645, 121.73  
GENE X3  
Condition 1, Condition 2  
80.017, 78.6063  
77.473, 91.7858  
49.921, 49.0438  
80.6743, 55.8858  
69.1183, 84.2333  
86.5145, 73.6297  
76.553, 94.304  
86.8753, 67.3408  
76.6561, 59.0676  
80.7884, 72.8146  
GENE X4  
Condition 1, Condition 2  
76.456, 82.7245  
88.9669, 103.197  
65.1853, 77.0897  
90.1, 102.325  
55.2457, 95.2161  
72.1554, 112.005  
66.8616, 120.006  
75.5882, 111.286  
58.8312, 131.104  
63.0716, 79.4204  
GENE X5  
Condition 1, Condition 2  
81.348, 143.397  
57.732, 122.064

98.809,138.742  
82.6276,135.908  
101.357,123.988  
82.1037,144.41  
78.3472,114.417  
53.2861,135.653  
68.3973,129.881  
74.7139,134.802

EE17B017

GENE X1

Condition 1, Condition 2

6.89706, 107.933

10.2458, 112.729

-11.3134, 119.51

2.15285, 123.255

-8.61046, 114.045

-2.13264, 85.8809

8.10402, 78.6791

30.6243, 108.402

3.38225, 106.36

18.1187, 111.609

GENE X2

Condition 1, Condition 2

24.7813, 154.445

25.4375, 145.705

45.0063, 122.273

22.3597, 135.292

21.1911, 111.787

21.3727, 76.9357

32.1124, 102.603

19.1902, 187.637

39.1416, 162.229

25.2579, 87.8711

GENE X3

Condition 1, Condition 2

84.5365, 79.6197

89.5938, 86.7769

74.0715, 75.1048

84.5073, 70.3488

105.91, 75.979

79.2905, 66.9154

88.75, 85.0587

56.9131, 78.8597

83.1423, 74.8863

77.7741, 95.4089

GENE X4

Condition 1, Condition 2

102.575, 142.486

87.5053, 132.691

85.0454, 138.36

110.718, 168.715

71.9922, 142.853

45.4828, 158.666

52.654, 145.195

72.3845, 159.333

61.581, 134.758

36.1188, 158.247

GENE X5

Condition 1, Condition 2

82.7713, 64.6477

86.7388, 59.0139

93.1482,63.4449  
73.2663,70.8445  
97.1529,36.0582  
85.8415,54.995  
90.4352,67.3194  
89.3028,55.4393  
91.538,39.7594  
80.9558,38.9448

EE17B043

GENE X1

Condition 1, Condition 2

56.1396, 112.677

74.3215, 70.5221

57.7331, 59.3607

73.6646, 65.9811

62.395, 110.957

66.2201, 70.5681

70.118, 50.4534

73.8785, 52.4886

69.283, 48.8159

71.7186, 38.3676

GENE X2

Condition 1, Condition 2

52.1988, 129.421

70.6478, 138.118

81.5087, 136.745

74.0326, 127.927

58.5865, 133.352

85.6874, 129.02

78.4272, 141.299

64.451, 154.849

88.9121, 149.355

78.8381, 159.679

GENE X3

Condition 1, Condition 2

66.3077, 101.617

81.8398, 81.3025

67.6299, 119.495

42.0894, 118.415

79.4203, 90.6689

85.405, 75.3984

72.7731, 100.363

67.5584, 112.738

94.1881, 104.159

69.8308, 47.1611

GENE X4

Condition 1, Condition 2

24.3219, 188.656

26.6613, 149.56

32.4278, 132.664

20.6357, 151.678

32.2674, 178.478

42.8844, 169.339

25.9978, 160.564

23.3761, 191.391

26.5865, 195.432

28.2723, 151.947

GENE X5

Condition 1, Condition 2

43.7316, 169.723

13.1182, 169.204

-10.3201,145.691  
21.1039,167.347  
19.0763,161.219  
39.1274,167.264  
25.4472,154.59  
31.5816,162.468  
19.9624,169.684  
56.3718,153.403

EE17B048

GENE X1

Condition 1, Condition 2

37.7178, 89.9513

31.6165, 91.0984

34.1313, 134.875

52.8906, 97.1643

33.739, 69.6934

55.1461, 101.821

59.8485, 99.1824

42.5927, 88.8005

28.9629, 129.595

43.3209, 113.387

GENE X2

Condition 1, Condition 2

16.84, 161.098

8.87799, 172.098

4.30266, 158.016

27.0217, 157.958

28.9625, 165.188

23.0251, 167.185

18.7216, 147.186

22.9867, 168.028

23.1328, 173.68

16.784, 149.211

GENE X3

Condition 1, Condition 2

61.9301, 86.2417

95.7701, 52.7365

130.707, 77.3682

85.4215, 66.8366

68.2984, 41.6896

83.7092, 62.7013

79.473, 59.9065

108.604, 31.7478

76.1221, 97.526

96.416, 92.3462

GENE X4

Condition 1, Condition 2

24.8347, 112.104

21.324, 115.538

18.9685, 165.288

41.766, 132.01

40.2315, 122.827

30.5081, 116.313

25.9244, 119.775

45.9972, 107.381

39.0342, 113.564

31.5549, 145.582

GENE X5

Condition 1, Condition 2

68.2552, 53.3466

54.3903, 87.6859

53.392,95.3213  
65.6884,42.8936  
68.4672,87.8245  
63.2459,90.3292  
67.6315,115.424  
66.5981,95.7599  
70.3616,114.516  
58.7005,103.692

EE17B050

GENE X1

Condition 1, Condition 2

38.7254, 182.617

54.5876, 181.342

55.6964, 152.842

55.1308, 169.583

33.8105, 154.624

48.8015, 166.256

57.547, 177.259

54.7608, 177.615

64.6051, 165.454

38.4246, 197.989

GENE X2

Condition 1, Condition 2

86.7177, 80.266

73.5919, 55.4652

74.6247, 68.9986

72.951, 96.8618

105.961, 77.9909

82.1915, 39.1992

79.4528, 63.1159

83.0367, 38.96

71.9653, 69.9177

97.8766, 58.1011

GENE X3

Condition 1, Condition 2

81.1776, 4.22474

91.5468, -6.58929

82.7844, -0.109964

93.8057, 12.2215

98.6886, 13.8397

92.1767, 19.8468

97.7902, 10.8887

97.0578, -57.9207

94.4796, -18.2927

91.1225, -2.70022

GENE X4

Condition 1, Condition 2

81.3465, 114.625

94.2372, 99.0052

100.662, 121.2

96.7671, 133.295

117.066, 131.565

94.622, 107.613

127.936, 132.065

91.1768, 157.352

85.4918, 130.665

96.9249, 111.02

GENE X5

Condition 1, Condition 2

16.9038, 131.58

13.5744, 125.362

31.0627,139.809  
-0.724708,117.788  
22.5831,126.333  
28.6914,138.424  
25.4527,139.289  
10.5495,126.612  
15.1164,120.265  
10.9684,126.447

EE17B066

GENE X1

Condition 1, Condition 2

100.351, 150.239

90.1512, 166.127

97.3648, 167.721

92.7292, 161.617

94.6534, 175.014

111.966, 169.995

99.8715, 150.555

93.6138, 152.124

96.093, 152.975

101.663, 148.344

GENE X2

Condition 1, Condition 2

70.7614, 44.1449

76.2427, 21.1694

79.6089, -4.28696

85.3988, 67.0285

70.4399, 41.1756

84.6551, -2.62585

55.6972, 24.8534

58.2878, 68.3839

60.5237, 6.42677

94.6811, 57.8261

GENE X3

Condition 1, Condition 2

-4.25595, 28.858

-0.498798, 12.5728

12.8493, 35.6282

12.1566, 35.8033

-21.5582, 21.1378

24.9076, 76.5161

-17.411, 54.3469

10.5931, 18.9689

20.6061, 33.1147

3.36132, 19.1719

GENE X4

Condition 1, Condition 2

49.6421, 29.7249

14.5502, 28.3142

49.5898, -19.3438

7.5599, 60.6545

40.9917, 37.8191

28.3615, 23.2312

24.8167, 70.8611

17.4909, 31.8473

47.2291, 81.9465

3.19286, 1.77935

GENE X5

Condition 1, Condition 2

-14.8474, 54.3632

7.7119, 38.6507

-16.3054,46.2257  
11.9979,19.0005  
5.32062,48.8708  
-8.29608,66.5904  
-6.46763,38.5631  
10.3046,-3.98323  
4.03329,36.2357  
-26.3089,43.0153

EE17B104

GENE X1

Condition 1, Condition 2

6.51327, 97.5735

20.6464, 56.3607

8.13769, 81.7061

-10.4937, 55.6083

5.34217, 78.4591

0.535518, 67.4044

1.73555, 80.0713

11.8436, 52.9996

2.52798, 58.2186

3.32401, 68.7798

GENE X2

Condition 1, Condition 2

65.4973, 142.823

53.7991, 114.433

65.546, 164.815

51.5979, 151.979

49.593, 123.848

56.1078, 161.64

46.0582, 131.289

40.7417, 147.913

51.1222, 138.721

50.3143, 125.351

GENE X3

Condition 1, Condition 2

75.7523, 21.3177

66.989, 3.67358

95.5369, -18.2275

107.105, 27.6859

76.4999, 52.2161

108.471, 36.9925

78.0044, 8.84081

64.5495, 27.5807

101.136, -24.7596

63.3435, 16.9715

GENE X4

Condition 1, Condition 2

53.9849, 39.2777

60.2273, 26.6419

73.1845, 31.861

62.9885, 54.8152

72.4192, 50.5805

64.5125, 48.7003

63.7969, 47.0762

75.456, 70.7554

61.4153, 61.4235

81.7967, 71.0165

GENE X5

Condition 1, Condition 2

66.6956, 201.652

26.5156, 211.399

60.8034,190.374  
25.265,208.15  
40.8566,171.512  
40.1066,201.614  
28.7396,200.547  
51.8802,180.805  
44.1272,200.315  
61.7125,195.651

EE17B108

GENE X1

Condition 1, Condition 2

25.8586, 73.4705

40.0913, 65.4473

30.5187, 83.8107

40.5618, 92.029

46.0437, 67.0004

16.261, 79.8926

24.3081, 83.1329

29.5667, 65.6665

60.2319, 85.7064

3.79869, 81.2671

GENE X2

Condition 1, Condition 2

45.0955, 165.158

90.7632, 148.356

41.2408, 158.308

58.1404, 116.141

98.8239, 80.9241

107.815, 120.425

67.6789, 177.695

86.0317, 113.401

95.0523, 127.289

97.3186, 151.072

GENE X3

Condition 1, Condition 2

100.265, 51.2897

69.8058, 43.0048

67.4789, 41.5456

85.2683, 47.5308

85.4186, 47.7728

86.6458, 33.4762

69.0376, 30.3117

79.0668, 33.4146

83.2359, 20.6972

91.6649, 30.7576

GENE X4

Condition 1, Condition 2

59.9033, 153.117

74.3448, 84.0585

85.5944, 112.829

58.2349, 101.429

56.6777, 128.514

55.4248, 112.643

64.0136, 126.6

59.6026, 111.45

83.8477, 108.374

53.2588, 95.021

GENE X5

Condition 1, Condition 2

60.6526, 35.4033

66.7711, 27.0434

61.4059,22.6496  
62.4636,30.9612  
65.7738,33.5455  
58.5893,30.0022  
54.3542,19.4621  
49.8954,13.6132  
51.3632,38.8808  
66.7905,29.4762

EE17B124  
GENE X1  
Condition 1, Condition 2  
60.233, 36.2599  
55.0321, 35.7432  
87.4745, 32.4949  
69.5174, 25.4835  
70.0853, 26.2145  
70.4327, 44.29  
67.0448, 30.1873  
55.559, 20.3136  
65.4654, 24.7169  
85.0139, 26.7219  
GENE X2  
Condition 1, Condition 2  
63.9965, 183.031  
54.7171, 113.708  
60.8709, 166.165  
61.2992, 123.716  
61.8407, 143.821  
64.2851, 140.995  
66.0422, 125.671  
62.562, 162.723  
64.4905, 126.53  
59.2469, 131.319  
GENE X3  
Condition 1, Condition 2  
61.0377, 100.991  
53.3572, 99.853  
51.9844, 136.094  
76.0681, 111.458  
64.454, 136.528  
67.0212, 117.799  
68.4622, 144.681  
56.5352, 89.2573  
70.1297, 120.641  
71.486, 159.466  
GENE X4  
Condition 1, Condition 2  
30.6004, 192.487  
26.2864, 153.987  
27.8768, 136.695  
41.4204, 127.609  
34.0688, 197.678  
51.4507, 146.341  
40.6926, 129.395  
46.908, 146.582  
29.9139, 162.611  
34.2017, 154.926  
GENE X5  
Condition 1, Condition 2  
72.1078, 54.8096  
37.6468, 55.8296

64.6413,88.5777  
68.5926,50.6615  
72.8644,36.631  
98.0908,39.0654  
71.1914,71.7772  
54.1115,79.3989  
75.807,14.4174  
23.712,51.1994

EE17B125

GENE X1

Condition 1, Condition 2

32.134, 54.4655

11.2129, 31.5026

28.3238, 44.6176

40.8317, 24.486

18.932, 27.4564

28.5999, 18.5882

23.1041, 39.9631

30.1196, 47.0814

42.4421, 35.1406

42.122, 24.4897

GENE X2

Condition 1, Condition 2

35.8066, 19.5584

34.6494, 1.46826

41.5266, 25.794

42.7068, 35.5293

43.7201, 29.4561

50.6061, 6.67224

34.3494, 2.02564

33.6378, 9.58295

49.3582, 20.2244

56.6226, 19.6668

GENE X3

Condition 1, Condition 2

19.1119, 144.8

22.1208, 132.9

28.2394, 139.46

13.9323, 132.525

38.0388, 139.321

23.1814, 140.362

7.80869, 129.782

35.2425, 146.113

38.9199, 144.337

17.7955, 126.844

GENE X4

Condition 1, Condition 2

52.0148, 127.183

47.2652, 160.426

32.8916, 124.025

34.1041, 147.999

54.7065, 156.157

52.4867, 148.836

52.4131, 164.038

24.9412, 143.159

45.8648, 160.334

67.7593, 129.662

GENE X5

Condition 1, Condition 2

61.3237, 41.2811

62.1108, 84.0062

86.0002,60.9509  
67.2542,52.1355  
68.3057,67.2428  
57.5906,99.4828  
75.7551,75.5726  
55.9539,16.9453  
58.0156,71.3015  
41.3646,50.988

EE17B127

GENE X1

Condition 1, Condition 2

61.1425, 172.994

21.0289, 211.712

35.8191, 199.548

57.4995, 198.549

47.2266, 177.743

42.7531, 203.679

39.6351, 227.052

27.8209, 184.515

54.821, 214.21

51.3082, 209.265

GENE X2

Condition 1, Condition 2

95.2112, 26.9681

71.3491, 49.6991

83.7937, 68.5679

54.9962, 66.5215

79.7869, 51.8896

55.695, 30.7173

63.4684, 43.9911

79.0649, 85.3961

72.7906, 50.9287

54.116, 47.2602

GENE X3

Condition 1, Condition 2

85.0884, 148.997

88.4785, 121.591

85.9491, 181.883

88.8717, 102.246

85.6317, 172.839

83.9083, 125.205

90.2854, 133.25

87.1196, 169.906

89.5999, 170.034

89.5197, 158.625

GENE X4

Condition 1, Condition 2

-7.19021, 164.24

33.7004, 163.337

16.6694, 144.23

-1.00677, 140.329

26.1351, 174.849

1.37141, 158.452

-6.14165, 162.295

8.35007, 132.699

28.4751, 164.064

6.73159, 135.518

GENE X5

Condition 1, Condition 2

59.8997, 35.3388

55.5845, 21.4628

70.3194,78.839  
54.0791,91.0489  
63.6238,55.4502  
43.2732,49.4661  
59.4662,47.6332  
72.2829,44.1185  
58.1959,15.7318  
43.0589,33.0818

EE17B128

GENE X1

Condition 1, Condition 2

90.3545, 167.65

80.7613, 150.971

78.4877, 144.508

88.1634, 165.297

90.168, 155.904

90.7986, 161.395

86.8833, 150.824

80.9619, 156.547

91.8154, 154.259

95.0798, 157.838

GENE X2

Condition 1, Condition 2

31.9796, 129.079

23.0896, 120.478

39.2228, 85.0059

36.4816, 122.259

30.7602, 118.19

29.8578, 110.924

26.8379, 128.983

42.3417, 116.725

39.4489, 119.265

31.7036, 111.176

GENE X3

Condition 1, Condition 2

89.9357, 156.244

81.7118, 147.224

71.4501, 165.461

98.1948, 141.729

83.0977, 122.146

58.4623, 141.047

100.572, 109.7

65.6631, 139.623

94.9414, 107.688

84.4007, 124.584

GENE X4

Condition 1, Condition 2

15.8667, 180.233

28.9695, 132.92

15.3275, 168.521

10.7544, 142.154

3.23806, 157.059

14.0584, 183.372

17.9227, 146.001

22.0902, 156.107

15.311, 128.603

16.8784, 147.559

GENE X5

Condition 1, Condition 2

30.8525, 112.58

40.3164, 116.267

28.186,119.262  
25.4182,119.145  
43.9822,104.277  
28.0217,125.205  
20.3252,129.66  
28.6423,136.433  
38.1197,118.467  
30.4219,127.38

EE17B132  
GENE X1  
Condition 1, Condition 2  
24.6383,-2.4795  
29.9119,0.621516  
39.4941,-3.7739  
19.6685,9.10386  
30.4074,4.67804  
18.3169,-3.64756  
29.5237,12.4309  
32.1821,9.31893  
40.853,-12.7262  
31.6951,7.04736  
GENE X2  
Condition 1, Condition 2  
51.1848,82.8912  
48.4233,80.1587  
49.5559,88.9475  
67.4384,91.7842  
30.6151,97.1284  
33.2362,81.9582  
29.0782,86.2245  
54.1387,98.4954  
40.201,90.9863  
36.6904,86.7483  
GENE X3  
Condition 1, Condition 2  
94.0437,178.461  
83.4724,150.116  
102.319,138.075  
97.8208,175.447  
97.2456,173.943  
75.3016,186.369  
90.9574,174.639  
94.6437,169.712  
72.8109,146.247  
107.307,188.574  
GENE X4  
Condition 1, Condition 2  
15.0309,103.542  
26.4976,79.9475  
14.1088,53.0883  
13.1364,77.1875  
19.7969,94.3822  
33.3374,119.82  
4.3268,96.4191  
20.0001,108.257  
8.70583,77.5976  
17.3689,55.771  
GENE X5  
Condition 1, Condition 2  
66.8553,224.282  
80.7189,235.174

103.467,226.197  
86.5306,187.498  
95.0211,197.414  
94.5483,195.993  
92.2752,187.98  
75.8223,216.053  
88.7486,220.153  
98.6125,206.829

EE17B136

GENE X1

Condition 1, Condition 2

24.7335, 100.413

3.80079, 100.691

28.2391, 137.673

25.3984, 103.806

37.6667, 95.5585

20.2953, 97.6673

28.6939, 82.9845

2.54527, 96.5186

25.1732, 93.6268

14.1111, 117.959

GENE X2

Condition 1, Condition 2

88.6803, 92.448

64.2204, 99.9823

63.2198, 94.8752

54.4308, 64.8863

75.0367, 66.2717

57.8591, 90.9985

79.3357, 88.7373

57.0096, 106.94

56.7357, 100.785

80.8959, 110.153

GENE X3

Condition 1, Condition 2

66.1624, 157.485

58.9471, 171.631

50.4389, 178.489

68.4263, 170.216

75.4691, 168.799

48.9383, 179.54

57.8051, 182.861

58.467, 174.665

68.0592, 172.981

77.321, 172.789

GENE X4

Condition 1, Condition 2

74.1184, 147.655

66.6798, 150.804

57.148, 156.726

69.6325, 149.263

49.7512, 149.513

88.3948, 137.83

57.9213, 129.571

72.4433, 148.563

73.1253, 156.131

88.9758, 152.154

GENE X5

Condition 1, Condition 2

101.58, 81.8291

86.6998, 58.0045

86.2356,46.7161  
70.0518,41.1298  
59.7996,49.2889  
86.283,66.5806  
65.2876,50.1287  
100.175,36.9763  
78.0529,62.2678  
86.1427,33.3525

EE17B139  
GENE X1  
Condition 1, Condition 2  
60.5272, 89.1058  
59.2323, 106.018  
23.4733, 62.2445  
42.9985, 47.471  
31.5258, 45.8955  
33.7061, 84.189  
48.373, 110.731  
58.8562, 76.4197  
44.2956, 109.26  
53.8214, 77.7083  
GENE X2  
Condition 1, Condition 2  
37.4344, 14.0936  
57.363, 3.22707  
45.683, 11.5741  
61.8361, 31.0534  
44.9489, 20.1028  
35.4977, -9.91736  
46.4693, 0.82021  
49.0377, 9.53557  
36.3904, 9.08348  
45.96, 10.7436  
GENE X3  
Condition 1, Condition 2  
80.379, 24.7469  
75.0089, 9.37855  
58.0718, 11.651  
60.9421, 18.7125  
64.8007, 13.3434  
50.0952, 20.7927  
74.4097, 7.26572  
76.4704, 21.2139  
76.8259, 24.9667  
62.8355, 23.7486  
GENE X4  
Condition 1, Condition 2  
86.2645, 27.1919  
75.3352, 27.9736  
92.4644, 33.191  
81.5796, 30.0331  
66.4587, 33.2788  
90.7247, 42.2748  
78.5683, 33.5231  
81.7827, 12.2323  
80.5421, 15.5991  
92.0487, 34.2868  
GENE X5  
Condition 1, Condition 2  
81.4093, 118.044  
69.6768, 178.397

63.0699,173.232  
72.0473,151.931  
74.4444,165.093  
62.2195,137.242  
61.6,155.39  
50.9646,195.657  
65.0466,189.276  
80.3565,164.247

EE17B140

GENE X1

Condition 1, Condition 2

61.9824, 162.622

69.2451, 141.138

67.1503, 150.78

65.8423, 152.512

66.1532, 160.852

69.0337, 154.516

65.0844, 158.481

62.2867, 132.745

63.6898, 145.193

67.2519, 144.199

GENE X2

Condition 1, Condition 2

25.9814, 148.588

5.4454, 93.4459

18.1541, 110.703

48.2855, 131.444

6.56697, 123.505

25.8142, 130.923

1.31616, 94.7875

20.404, 122.422

22.5952, 121.021

9.67366, 83.5903

GENE X3

Condition 1, Condition 2

107.462, 151.641

98.1104, 151.144

89.6809, 152.977

113.767, 156.337

66.0803, 153.354

98.164, 154.881

110.017, 154.885

95.8736, 143.54

86.576, 155.498

118.767, 158.345

GENE X4

Condition 1, Condition 2

99.8226, 10.1516

82.1397, 37.6038

41.2836, -5.00128

64.9857, 17.1853

80.1158, 28.6355

104.717, -20.6344

68.8092, 28.5033

65.9696, 4.40933

123.329, 24.072

76.7286, 51.8189

GENE X5

Condition 1, Condition 2

35.6305, 206.636

40.6087, 178.579

36.7444,143.435  
49.8871,150.399  
41.1429,117.751  
35.6288,154.348  
35.9673,206.366  
59.2764,173.516  
48.6987,177.191  
53.6389,179.815

EE17B143  
GENE X1  
Condition 1, Condition 2  
7.88496, 50.7364  
4.55856, 54.7202  
3.37364, 41.1603  
2.59503, 69.6731  
15.2538, 50.0296  
12.9658, 58.4209  
8.96893, 38.7665  
13.3077, 42.3285  
24.0215, 55.2602  
-5.70982, 59.0748  
GENE X2  
Condition 1, Condition 2  
85.2133, 130.852  
104.672, 122.631  
84.9537, 116.374  
109.54, 115.164  
95.486, 107.663  
98.6532, 106.739  
87.9535, 119.506  
86.1499, 126.149  
104.838, 108.935  
101.439, 133.467  
GENE X3  
Condition 1, Condition 2  
86.7222, 30.7673  
50.4857, 47.2191  
70.9084, 34.5841  
65.8496, 34.9299  
50.6372, 38.3787  
70.8845, 36.5077  
70.8933, 40.8442  
40.308, 32.0723  
79.5325, 43.2619  
56.8563, 42.2361  
GENE X4  
Condition 1, Condition 2  
72.7417, 78.0067  
44.777, 42.1416  
65.7239, 10.3118  
92.7507, 48.221  
74.3001, 49.2902  
77.9975, 52.3244  
50.8528, 63.7624  
43.9149, 72.8833  
73.38, 76.3419  
85.3635, 16.2877  
GENE X5  
Condition 1, Condition 2  
28.178, 29.2872  
28.4096, 30.2605

30.733,29.7721  
28.8325,43.4901  
28.8937,22.6182  
30.7742,28.5901  
29.613,12.1206  
29.9202,28.8792  
28.2473,45.9736  
31.4896,44.5357

EE17B146

GENE X1

Condition 1, Condition 2

90.8362, 118.853

90.7861, 113.383

95.2843, 132.259

94.2718, 120.05

91.9395, 111.512

89.1481, 172.529

98.2401, 119.252

88.6999, 154.165

92.5149, 115.055

87.2617, 91.5277

GENE X2

Condition 1, Condition 2

74.7088, 3.88455

84.0516, 60.2123

68.8284, 8.36843

57.7309, 39.9395

66.1412, 21.8542

72.296, 69.7371

85.8351, 63.0716

62.5298, 65.2557

112.021, 57.6836

99.2263, 41.92

GENE X3

Condition 1, Condition 2

59.4987, 150.02

48.6165, 129.381

40.4777, 138.186

55.2991, 135.797

55.2153, 111.232

61.3864, 127.144

56.2431, 141.099

38.4067, 140.251

12.3427, 165.403

72.137, 141.591

GENE X4

Condition 1, Condition 2

46.1542, 172.815

57.5411, 182.876

44.6461, 202.545

66.5738, 217.11

57.4163, 195.098

61.892, 158.045

68.3211, 187.261

57.983, 216.539

49.8915, 189.241

54.2083, 221.461

GENE X5

Condition 1, Condition 2

84.2188, 31.3407

96.0669, 76.0776

95.9585,64.1247  
104.093,62.4494  
79.9349,74.4985  
78.1629,58.2697  
91.6658,104.147  
89.1052,63.4284  
97.3918,75.3202  
82.4455,38.7746

EE18B004

GENE X1

Condition 1, Condition 2

88.2892, 105.664

93.4524, 152.138

96.0364, 127.581

88.4025, 113.404

91.4455, 103.628

92.9357, 137.37

85.5734, 170.393

84.6085, 143.516

88.6253, 76.2716

87.9597, 131.135

GENE X2

Condition 1, Condition 2

50.1342, 126.154

38.1866, 128.226

45.0326, 130.018

56.3054, 151.416

17.1963, 120.368

45.1435, 118.238

2.44334, 156.551

45.964, 111.335

24.8879, 179.332

35.9797, 150.367

GENE X3

Condition 1, Condition 2

107.974, 14.2398

51.1431, -2.30571

62.62, 12.9992

72.7788, 21.1762

67.1967, 8.51651

63.0341, 20.9365

67.9259, 3.62799

101.43, 15.702

56.2244, 8.26919

64.6479, 14.9955

GENE X4

Condition 1, Condition 2

60.0942, 28.3429

64.1794, 42.7381

66.2805, 26.0018

66.8415, 34.5428

64.8968, 21.4742

67.5815, 44.239

65.134, 28.3964

58.2361, 32.3718

63.6264, 41.1821

56.3441, 36.9588

GENE X5

Condition 1, Condition 2

103.222, 38.287

74.1766, 33.4944

92.293,59.2781  
89.3464,38.855  
60.917,41.1864  
77.4898,41.3347  
68.9012,61.9529  
109.533,33.8647  
92.3244,51.1405  
77.5149,15.4465

EE18B010  
GENE X1  
Condition 1, Condition 2  
100.731, 153.081  
88.9568, 150.31  
67.4794, 138.115  
106.202, 129.921  
56.0122, 133.708  
85.6928, 153.559  
65.673, 133.724  
94.4829, 164.943  
60.0075, 143.457  
94.375, 161.182  
GENE X2  
Condition 1, Condition 2  
52.5679, 147.263  
53.7776, 110.348  
47.1302, 134.308  
57.0425, 155.997  
41.1723, 172.336  
72.5632, 138.542  
79.5821, 156.99  
65.6347, 177.066  
53.3353, 172.282  
52.8056, 138.264  
GENE X3  
Condition 1, Condition 2  
-18.2073, 112.547  
16.4682, 97.5938  
6.20704, 88.6965  
30.1312, 118.481  
0.156465, 91.4701  
-3.79257, 130.595  
32.6618, 81.6233  
31.9591, 133.35  
22.1496, 112.597  
16.1353, 82.1572  
GENE X4  
Condition 1, Condition 2  
12.0218, 50.7513  
2.10704, 61.9129  
11.4623, 62.0461  
22.3272, 61.7032  
9.22606, 74.9523  
21.7051, 81.5642  
26.1523, 69.241  
11.7338, 67.0525  
36.0316, 68.7756  
18.1984, 53.9773  
GENE X5  
Condition 1, Condition 2  
95.947, -4.04971  
97.2173, 18.3094

87.6601,11.3576  
95.1977,22.7348  
101.695,19.0069  
109.661,17.1599  
108.723,2.23272  
99.1531,9.66981  
77.8055,3.12125  
99.1741,30.4053

EE18B014

GENE X1

Condition 1, Condition 2

91.9011, 57.8523

80.4331, 70.6635

60.0823, 74.4495

74.955, 64.7628

64.3034, 58.6548

79.2234, 55.8954

96.7418, 68.0763

62.5612, 74.6014

67.9682, 69.6532

60.1563, 62.1745

GENE X2

Condition 1, Condition 2

74.0771, 182.649

50.942, 187.035

80.2842, 216.317

95.754, 203.168

58.7518, 185.244

81.3519, 198.301

56.3728, 195.057

78.1903, 204.807

57.2781, 193.928

78.445, 208.093

GENE X3

Condition 1, Condition 2

49.9281, 95.6149

48.2967, 81.8806

39.1699, 97.7163

32.315, 94.4747

62.0549, 111.382

43.5705, 94.5891

41.4366, 114.001

57.6256, 94.4069

29.9361, 83.3048

29.1764, 96.1859

GENE X4

Condition 1, Condition 2

59.9932, 178.132

63.3427, 175.114

67.1403, 146.378

65.0191, 180.342

66.1575, 131.28

63.2494, 147.577

64.9914, 181.11

66.3155, 170.937

65.9921, 162.521

64.626, 174.744

GENE X5

Condition 1, Condition 2

35.3826, 62.0674

27.5038, 34.0397

16.4751,41.1578  
15.2698,-4.63363  
10.6117,26.3491  
-6.83161,4.42172  
12.9,39.0532  
24.7415,14.8836  
22.9489,38.5015  
4.03708,60.387

EE18B019

GENE X1

Condition 1, Condition 2

48.8008, 25.9276

53.5, 38.089

42.7239, 16.756

49.4539, 10.287

40.0692, 48.4801

42.3512, 16.6683

69.4911, 12.8477

47.9249, 43.6963

62.475, 11.9464

43.532, -4.01049

GENE X2

Condition 1, Condition 2

30.4372, 13.2509

14.5098, 24.6922

48.3889, 7.43009

21.6992, 36.0523

-3.80515, 13.7514

46.0926, 26.5691

14.7183, 16.8636

30.2941, 16.0586

50.8746, 8.72177

11.8081, 14.7178

GENE X3

Condition 1, Condition 2

67.4705, 196.772

86.9712, 174.209

85.2804, 197.645

74.7268, 187.877

81.7024, 203.055

96.7297, 221.522

86.7396, 193.899

85.8657, 189.52

87.0416, 173.881

85.4267, 177.112

GENE X4

Condition 1, Condition 2

8.64324, 225.403

16.2768, 172.452

-1.71889, 179.073

3.20692, 168.973

0.961862, 179.421

-17.9714, 184.303

-4.92134, 194.143

17.4152, 171.069

-2.96283, 150.821

-5.2261, 150.733

GENE X5

Condition 1, Condition 2

12.8805, 171.73

9.38853, 145.802

18.729,135.281  
25.0105,119.262  
-14.5393,163.839  
-6.0769,156.583  
-9.17819,163.923  
8.903,167.207  
29.5112,168.943  
2.63187,175.451

EE18B039

GENE X1

Condition 1, Condition 2

17.5791, 68.2805

2.63661, 75.6941

4.61776, 84.3331

14.2187, 74.8695

9.8025, 59.9165

7.43397, 74.9141

13.4445, 70.2211

-4.3848, 65.4651

-1.65159, 88.6175

6.89461, 69.6077

GENE X2

Condition 1, Condition 2

77.3816, 57.5501

106.382, 26.3701

90.3314, 36.6798

63.8928, -8.9101

76.3128, 18.2963

93.37, 5.60615

100.949, 33.0862

106.375, -2.15291

95.5919, 10.0959

92.5423, -2.66884

GENE X3

Condition 1, Condition 2

78.0272, 97.8688

67.2134, 61.8942

63.2998, 33.3626

79.6624, 45.6636

62.7696, 36.3099

56.756, 50.7567

87.1762, 58.6933

74.7208, 89.131

70.8112, 37.8301

73.0169, 59.678

GENE X4

Condition 1, Condition 2

5.57367, 47.5671

4.7308, 33.5887

10.1804, 78.5466

6.35441, 72.4009

11.1323, 38.3055

11.197, 104.524

6.10382, 58.2187

6.89153, 85.5886

5.00655, 70.8706

11.3495, 65.858

GENE X5

Condition 1, Condition 2

14.6776, 4.28315

10.3683, 14.4367

4.33497,23.5161  
3.59831,19.1644  
16.7661,8.83257  
3.74691,23.9322  
1.05677,19.6234  
-3.89003,37.4505  
22.1991,33.506  
17.1571,20.1044

EE18B043

GENE X1

Condition 1, Condition 2

18.2198, 51.7706

32.3219, 76.4951

37.6856, 50.4738

42.7356, 68.8053

17.3765, 82.1517

16.1329, 16.4271

20.4556, 54.7317

14.2201, 55.9863

25.485, 51.1416

22.4797, 40.245

GENE X2

Condition 1, Condition 2

87.8971, 33.8313

93.4442, 27.944

91.1776, 42.5442

92.0263, 25.52

69.1142, 38.1084

84.4567, 22.0183

94.2027, 72.1983

101.415, 15.9159

92.7321, 17.0677

94.0331, 32.1776

GENE X3

Condition 1, Condition 2

30.8169, 73.6324

66.9228, 95.3035

45.5412, 70.8657

77.3605, 78.1819

73.0573, 32.5161

58.0827, 43.1066

66.4703, 23.2052

54.2273, 45.7296

96.698, 49.0805

48.6332, 73.2344

GENE X4

Condition 1, Condition 2

105.383, 111.058

65.8313, 44.1941

98.3783, 91.7237

103.037, 67.5213

106.089, 70.8143

93.515, 94.7875

93.7687, 71.28

109.649, 89.1479

98.9115, 53.2209

106.034, 82.7891

GENE X5

Condition 1, Condition 2

69.599, 94.8645

60.005, 81.2794

84.2691,72.6281  
68.32,72.4839  
75.5177,66.5039  
47.5139,70.619  
70.7768,32.6464  
48.28,59.3844  
52.9026,66.9143  
53.3822,43.5541

EE18B045

GENE X1

Condition 1, Condition 2

44.1936, 39.1291

51.0589, 31.2688

55.2876, 20.8505

33.8123, 58.7792

39.9595, 38.281

62.4202, 5.70586

38.3845, 42.278

34.3801, 36.7894

51.4528, 29.8978

50.7533, 36.3123

GENE X2

Condition 1, Condition 2

98.6464, 60.5278

81.0641, 39.9153

92.2982, 52.299

89.2727, 73.0765

88.2846, 66.4081

94.2348, 46.0905

101.791, 85.1088

89.2178, 54.5382

81.4445, 73.1401

94.957, 62.9052

GENE X3

Condition 1, Condition 2

7.30413, 81.0236

13.0161, 140.646

11.9898, 124.73

16.7927, 67.9129

23.5082, 97.124

6.682, 96.2543

14.8135, 86.5166

-0.447777, 108.029

12.3664, 94.3208

12.6749, 75.9991

GENE X4

Condition 1, Condition 2

40.2868, 12.8554

56.2238, -1.35564

55.9575, -4.8499

66.5061, 28.9872

56.5732, 4.99406

55.5609, -7.01916

59.2767, 10.2071

51.8659, 11.5633

55.7249, -4.5276

52.3127, 5.96547

GENE X5

Condition 1, Condition 2

33.1112, 61.4994

80.1736, 51.1523

70.089,57.3703  
85.5427,52.5874  
65.7608,45.9336  
54.8108,78.7493  
52.3063,38.4768  
48.1753,65.307  
49.1898,66.2436  
69.3965,57.5163

EE18B049

GENE X1

Condition 1, Condition 2

-7.40743, 138.076

33.6162, 107.543

2.24411, 133.312

23.9557, 124.502

13.0812, 150.502

10.6786, 145.076

30.276, 118.528

22.7495, 127.227

16.2719, 137.145

23.937, 114.259

GENE X2

Condition 1, Condition 2

65.11, 48.107

49.2761, 96.533

66.0447, 80.7609

74.7843, 60.4732

62.6661, 96.006

50.9808, 106.238

83.456, 117.424

68.9511, 89.4368

63.0714, 85.0261

63.689, 100.862

GENE X3

Condition 1, Condition 2

31.4407, 45.5334

29.6286, 12.5044

36.6438, 20.8241

34.5614, 31.1062

40.7695, 41.5124

33.1418, 27.3825

42.9696, 37.8315

2.74307, 36.0121

53.6808, 25.6434

28.4613, 20.5358

GENE X4

Condition 1, Condition 2

27.8929, 27.933

28.8112, 64.8416

36.4151, 50.6026

41.1229, 84.0901

34.0178, 83.1913

45.9212, 33.7196

40.5768, 51.3886

39.0203, 77.2764

35.1023, 75.6378

38.2334, 47.5673

GENE X5

Condition 1, Condition 2

16.2801, 56.0969

28.1429, 57.1341

26.479,81.4539  
11.1288,45.6589  
13.6023,51.5399  
22.3716,62.9193  
20.925,65.5768  
17.867,58.7509  
17.848,73.6266  
28.7879,52.6532

EE18B053

GENE X1

Condition 1, Condition 2

130.548, 126.267

83.6777, 104.339

83.5992, 83.0447

105.884, 102.104

87.6028, 101.367

96.1198, 109.914

97.013, 98.4731

85.7564, 98.2605

90.231, 124.063

87.2482, 86.634

GENE X2

Condition 1, Condition 2

112.234, 92.657

65.6292, 93.154

91.1729, 80.0668

86.2567, 120.704

87.8684, 82.8584

84.1152, 72.9354

72.562, 98.4033

87.6893, 88.9953

86.9259, 82.9392

78.4307, 108.188

GENE X3

Condition 1, Condition 2

43.3743, 102.206

47.1921, 123.869

49.4279, 104.674

42.4751, 93.4002

50.4605, 96.4854

47.1299, 98.3657

41.1728, 104.527

29.8799, 125.759

49.6183, 109.75

25.5866, 92.6028

GENE X4

Condition 1, Condition 2

65.2109, 109.989

85.2938, 83.0606

74.8564, 77.305

91.1546, 103.695

108.307, 97.0002

109.718, 95.4789

83.4058, 90.3556

100.712, 97.9354

100.554, 120.238

90.5927, 109.287

GENE X5

Condition 1, Condition 2

33.6873, 138.007

23.857, 146.516

24.2375,162.188  
45.8715,144.499  
30.5173,149.47  
12.2268,139.55  
48.0879,147.772  
28.2572,163.316  
34.3824,154.348  
39.135,136.774

EE18B102

GENE X1

Condition 1, Condition 2

50.9494, 129.494

50.4189, 119.204

53.4041, 117.127

56.656, 102.464

47.2599, 118.611

66.6206, 114.153

52.5014, 112.948

58.2822, 102.675

60.6755, 113.102

52.6781, 96.5586

GENE X2

Condition 1, Condition 2

78.5065, 83.0637

94.7447, 92.2154

78.7705, 86.0968

109.632, 81.3444

74.6696, 73.5754

86.5553, 97.4201

93.7345, 78.613

85.6864, 85.2346

105.322, 75.7652

96.0251, 83.4107

GENE X3

Condition 1, Condition 2

90.8178, 128.774

88.489, 105.315

77.0587, 82.6846

73.2213, 102.202

96.053, 58.5768

100, 117.706

81.6466, 119.77

92.1118, 100.745

80.9713, 91.971

75.1026, 69.9845

GENE X4

Condition 1, Condition 2

90.7706, 169.55

89.6318, 164.997

75.8806, 169.282

90.6667, 188.853

76.0075, 181.701

79.9782, 172.079

81.9319, 182.326

89.6585, 178.707

94.0034, 177.641

77.9395, 164.433

GENE X5

Condition 1, Condition 2

66.4385, 175.945

90.4776, 169.158

75.3005,180.696  
50.2068,176.568  
73.9292,159.307  
82.5979,167.516  
63.3192,151.469  
76.3162,175.261  
74.714,143.049  
68.0538,133.534

EE18B105

GENE X1

Condition 1, Condition 2

46.1079, 87.0449

49.4342, 77.0943

35.8748, 130.873

59.5084, 68.1134

27.157, 114.403

21.9474, 106.917

44.0197, 98.5651

21.2378, 76.953

27.2334, 97.0441

32.6399, 86.3512

GENE X2

Condition 1, Condition 2

32.4369, 139.635

29.1614, 163.789

45.1896, 160.535

50.0116, 159.347

43.1258, 137.291

38.2353, 165.768

42.4229, 136.931

24.0445, 137.794

33.3793, 122.028

63.9421, 139.857

GENE X3

Condition 1, Condition 2

44.2784, 94.7039

36.4614, 123.13

57.828, 104.663

50.0149, 126.631

96.445, 138.344

38.0615, 118.269

32.1931, 103.657

35.1721, 93.3583

26.3024, 159.178

49.3355, 86.1709

GENE X4

Condition 1, Condition 2

-7.12658, 41.6807

17.7478, 74.1624

-7.55325, 72.1009

19.8648, 33.9863

-2.87017, 23.8479

-4.50993, 33.5758

-0.548901, 53.4332

12.0079, 27.5378

12.8852, 59.292

13.1896, 48.4492

GENE X5

Condition 1, Condition 2

5.39793, 48.4149

3.35869, 45.9765

7.73452,48.4618  
14.161,31.2252  
3.33509,54.357  
8.9915,66.9075  
-1.32388,58.6627  
9.01533,47.5483  
-17.0932,30.6601  
-2.55551,50.4557

EE18B107

GENE X1

Condition 1, Condition 2

47.3799, 7.1388

59.0662, 34.0538

42.7662, 10.5848

47.6157, 6.03625

82.4708, 4.8455

33.2313, 7.99258

28.0404, 9.45485

57.0207, -5.63627

57.4849, -11.848

46.5073, 13.626

GENE X2

Condition 1, Condition 2

48.1676, 104.793

56.9496, 80.8534

48.7172, 74.8323

46.0319, 116.282

50.9051, 132.448

40.0659, 108.033

43.5619, 89.6562

62.8468, 136.514

49.1202, 102.745

31.209, 94.6188

GENE X3

Condition 1, Condition 2

26.3421, 9.69065

27.079, 32.7326

20.076, 12.3335

23.7976, 16.9169

30.9778, 17.0172

26.3102, 29.2334

19.9769, 21.6265

7.80554, 18.78

3.35112, 29.8349

5.68598, 17.4196

GENE X4

Condition 1, Condition 2

30.2666, 218.215

38.0788, 192.708

31.2545, 216.026

31.0845, 205.58

7.92159, 195.374

20.8378, 190.5

32.5808, 192.285

12.5568, 192.55

45.2654, 183.138

22.7537, 185.294

GENE X5

Condition 1, Condition 2

34.2748, 42.4302

35.2679, 41.1923

42.062,71.6002  
39.2809,45.7308  
40.9179,45.4209  
50.3564,11.0941  
55.5637,31.4421  
42.2217,27.8448  
46.462,25.0171  
45.6479,26.8569

EE18B108

GENE X1

Condition 1, Condition 2

92.5838, 82.6332

61.3291, 57.1127

100.239, 67.9401

74.2998, 96.6431

81.8593, 61.929

44.2512, 93.1194

85.8215, 66.503

84.9697, 69.822

57.443, 66.3556

86.7238, 46.2514

GENE X2

Condition 1, Condition 2

85.4504, 57.0314

95.824, 65.2692

102.411, 49.9543

81.4419, 66.596

108.245, 69.3671

99.7555, 91.5501

96.5378, 93.1172

81.9808, 60.051

94.4847, 66.5556

82.3684, 75.0085

GENE X3

Condition 1, Condition 2

55.4565, -0.630013

44.7612, 7.73497

35.4793, 12.8826

55.9423, -0.615371

42.4897, 7.20324

33.1148, 14.5396

58.0696, 1.97386

40.0097, 2.77873

64.085, 5.9067

51.6849, 12.4927

GENE X4

Condition 1, Condition 2

80.194, 64.5959

82.2152, 139.42

68.7937, 148.856

84.0527, 109.972

88.6624, 137.114

100.099, 128.846

84.855, 104.625

83.0829, 139.784

84.2643, 86.6104

81.2661, 85.1265

GENE X5

Condition 1, Condition 2

82.8164, 85.8074

93.3403, 84.843

140.031,106.685  
82.3978,74.2984  
105.012,82.1697  
128.022,79.7615  
96.0138,74.1178  
88.0707,63.584  
108.852,67.6627  
106.018,74.4081

EE18B113  
GENE X1  
Condition 1, Condition 2  
8.17934, 65.628  
1.5896, 50.346  
3.17482, 50.5616  
13.0099, 55.4718  
11.2144, 52.6214  
6.00754, 43.9817  
8.03907, 30.9223  
7.91136, 58.9817  
7.27009, 64.712  
11.8096, 54.5431  
GENE X2  
Condition 1, Condition 2  
7.35928, 71.2793  
22.278, 83.2641  
46.973, 89.0938  
10.2405, 97.8537  
36.8133, 79.9943  
44.4246, 93.4641  
9.40934, 89.9351  
34.3589, 84.0026  
1.17102, 88.3866  
42.4471, 67.0347  
GENE X3  
Condition 1, Condition 2  
4.06356, 106.014  
9.95151, 66.537  
30.1186, 61.7675  
16.8311, 94.5639  
25.0852, 97.9632  
15.176, 65.2094  
28.7531, 112.433  
23.3107, 66.2202  
60.907, 116.553  
28.2406, 91.5854  
GENE X4  
Condition 1, Condition 2  
75.3001, 52.7413  
64.8485, 33.6641  
67.9248, 34.0708  
68.4405, 25.0677  
77.3029, 33.8501  
54.4468, -2.54445  
66.2943, 45.4456  
74.8815, 48.7598  
66.9285, 66.9097  
64.679, 49.0918  
GENE X5  
Condition 1, Condition 2  
-5.40827, 118.291  
0.924772, 106.836

9.32901,124.399  
-2.85107,120.037  
34.4507,113.976  
-3.28279,123.562  
18.9955,129.915  
1.04412,159.179  
4.37174,104.972  
-13.4697,140.683

EE18B119  
GENE X1  
Condition 1, Condition 2  
48.7464, 121.139  
47.6077, 114.324  
47.0034, 126.142  
33.3843, 111.569  
57.5951, 107.208  
52.2733, 86.5873  
43.1422, 148.16  
28.9953, 98.4845  
46.0798, 147.651  
65.5498, 124.885  
GENE X2  
Condition 1, Condition 2  
9.1602, 149.435  
14.2567, 199.36  
18.1611, 139.369  
5.24754, 167.055  
9.40205, 133.792  
6.17412, 159.852  
2.66082, 146.849  
21.2442, 155.5  
12.0716, 177.755  
11.3008, 139.688  
GENE X3  
Condition 1, Condition 2  
20.2036, 195.801  
21.4665, 163.127  
33.6306, 184.717  
29.7754, 183.387  
39.3597, 193.123  
26.3896, 179.357  
30.8754, 152.195  
20.8488, 168.28  
36.5234, 176.04  
6.93536, 202.633  
GENE X4  
Condition 1, Condition 2  
60.4161, 64.8535  
62.7155, 73.6925  
83.0125, 53.6661  
48.7191, 64.4131  
78.5613, 92.7612  
39.436, 72.0415  
45.9453, 96.9637  
38.8233, 73.3694  
59.7431, 51.8084  
53.4978, 73.0105  
GENE X5  
Condition 1, Condition 2  
54.7468, 99.2923  
54.1168, 113.626

87.1194,107.289  
45.9119,101.201  
48.641,93.4218  
61.5005,102.112  
70.1869,95.5484  
53.2588,95.7914  
61.5102,121.733  
51.416,92.655

EE18B124

GENE X1

Condition 1, Condition 2

55.4542, 67.9888

65.1179, 76.4488

59.477, 79.8948

58.8332, 55.1356

48.5401, 80.7452

75.664, 60.6325

73.2182, 87.3706

50.4966, 56.5406

67.5964, 75.9639

40.2735, 77.2369

GENE X2

Condition 1, Condition 2

83.317, 6.3958

84.0595, 23.8823

99.6598, 6.09912

81.518, -0.551758

86.4817, -6.71382

76.6154, 6.93039

89.4592, -7.27929

82.034, 15.4368

94.6994, 17.8816

85.1189, 12.9589

GENE X3

Condition 1, Condition 2

85.3828, 200.163

95.2741, 219.47

82.7328, 206.045

113.98, 170.291

103.327, 187.414

105.241, 168.768

96.9667, 178.522

82.3943, 185.7

103.591, 196.829

100.377, 195.944

GENE X4

Condition 1, Condition 2

31.7254, 75.1734

47.4424, 60.2164

21.3911, 24.7914

28.2313, 30.8627

15.6002, 45.4922

39.8065, 55.125

36.5278, 23.4798

18.005, 20.8904

35.7201, 20.8869

30.1272, 21.7576

GENE X5

Condition 1, Condition 2

56.9436, 116.047

46.7197, 120.379

53.0083,95.8152  
38.2103,108.809  
63.3813,95.8551  
55.0239,112.315  
55.2247,121.37  
55.1261,117.774  
52.3054,85.5763  
44.4731,112.219

EE18B126

GENE X1

Condition 1, Condition 2

31.7274, 116.29

25.7427, 117.21

46.8697, 144.354

40.6653, 127.929

45.6631, 102.681

42.7601, 103.046

65.2465, 91.3487

51.8891, 84.1652

70.0234, 103.693

38.4238, 100.131

GENE X2

Condition 1, Condition 2

57.9245, 134.657

36.1761, 108.426

48.5743, 177.119

43.3835, 102.937

42.3546, 136.649

17.4068, 144.513

54.5665, 146.66

36.8341, 137.871

39.7861, 124.436

50.3476, 141.94

GENE X3

Condition 1, Condition 2

61.0392, 22.5329

65.14, 27.6185

66.4576, 22.2671

48.7351, 21.9079

59.0066, 17.7306

64.3389, 28.6292

57.4009, 20.0997

56.4384, 32.712

63.7331, 35.9414

63.4827, 39.7753

GENE X4

Condition 1, Condition 2

15.0908, 180.254

22.672, 173.872

4.78957, 159.528

14.5036, 161.207

20.2981, 149.439

1.7375, 148.983

2.18242, 180.162

6.25459, 154.305

7.52221, 161.478

7.19825, 163.227

GENE X5

Condition 1, Condition 2

39.6571, 53.3887

23.5768, 46.8539

26.854,36.9845  
59.0634,76.634  
38.1819,0.00187005  
41.5633,49.9516  
42.7695,22.4504  
55.7042,63.2401  
45.9641,98.1311  
46.6185,54.7864

EE18B127

GENE X1

Condition 1, Condition 2

14.9779, 126.873

-1.70641, 111.326

4.47567, 101.559

18.1484, 81.0786

19.4207, 86.743

21.4114, 128.31

15.3695, 90.4245

18.8645, 81.314

14.3668, 103.924

13.5502, 120.04

GENE X2

Condition 1, Condition 2

53.8584, 33.9222

57.6564, 20.6801

64.3982, -17.9979

56.7447, -28.407

68.5097, 40.9795

55.2249, -13.6381

59.1006, 21.6009

64.1159, 27.4682

74.3029, 46.2883

66.2432, 47.8861

GENE X3

Condition 1, Condition 2

80.8785, 136.576

106.126, 132.662

91.6587, 116.09

73.3656, 104.159

99.4556, 115.772

113.574, 130.524

70.8086, 146.239

76.0807, 167.938

68.2589, 130.477

76.1564, 110.632

GENE X4

Condition 1, Condition 2

9.42768, 3.57184

16.9745, 4.12323

15.781, 16.7223

17.6767, -15.2125

12.0915, 19.5504

12.6923, -7.26669

8.23795, 39.2914

8.24558, -33.0329

16.9358, 22.4393

8.77577, 20.4053

GENE X5

Condition 1, Condition 2

74.046, 95.3356

63.1122, 103.601

65.3972,90.9641  
41.7148,113.874  
59.6018,85.9483  
43.8243,97.384  
58.5378,80.479  
67.9834,104.625  
69.1467,98.6643  
56.8173,92.0075

EE18B129  
GENE X1  
Condition 1, Condition 2  
51.8321, 134.189  
51.6351, 126.082  
54.306, 127.625  
67.3179, 110.174  
51.7187, 139.015  
47.4969, 146.712  
53.9692, 135.747  
59.539, 132.847  
39.9905, 136.085  
55.2521, 121.234  
GENE X2  
Condition 1, Condition 2  
91.8291, 205.286  
81.5048, 170.993  
99.7728, 146.056  
88.3382, 145.288  
85.7934, 158.422  
88.0542, 204.554  
89.5615, 172.311  
93.5495, 170.857  
91.1529, 165.626  
84.1208, 166.912  
GENE X3  
Condition 1, Condition 2  
61.2342, 133.005  
74.7446, 131.2  
75.8859, 110.56  
71.5007, 137.657  
58.0785, 152.329  
87.4745, 121.55  
75.2848, 110.48  
71.1769, 139.038  
61.0272, 113.401  
69.0473, 139.485  
GENE X4  
Condition 1, Condition 2  
31.6192, 23.4658  
47.0074, 8.13855  
35.6023, 0.732082  
45.1996, 21.1752  
49.6101, 25.573  
58.9906, 25.9257  
34.5418, -5.65815  
42.0084, 27.1588  
38.878, 18.6801  
69.7699, 15.7968  
GENE X5  
Condition 1, Condition 2  
62.3794, 61.6408  
64.3025, 24.333

65.9474,94.5665  
64.815,46.1601  
67.8649,39.0029  
63.6721,86.0028  
63.7232,83.7332  
62.8725,100.956  
61.183,43.3744  
66.0692,72.8794

EE18B132

GENE X1

Condition 1, Condition 2

10.9399, 17.1993

10.0032, 16.8093

10.0608, 5.36013

16.8942, 14.2979

35.3139, 4.24408

18.3132, 3.04809

22.4996, 2.08552

28.7831, 8.66029

42.7438, -2.50669

35.425, -9.73114

GENE X2

Condition 1, Condition 2

108.703, 162.694

93.3308, 141.545

95.0979, 151.774

89.0732, 142.218

97.269, 166.732

108.958, 143.768

109.718, 131.213

94.231, 132.594

114.799, 155.495

80.6772, 148.931

GENE X3

Condition 1, Condition 2

64.3354, 107.839

73.2715, 120.857

79.934, 107.245

54.9934, 106.765

118.876, 116.007

56.6582, 130.622

77.2334, 117.577

93.7388, 126.247

76.6475, 133.331

100.623, 113.523

GENE X4

Condition 1, Condition 2

44.2286, 75.1868

32.9554, 95.209

73.56, 114.262

54.807, 91.596

54.4639, 121.375

54.7175, 68.6282

44.8516, 82.1689

51.3738, 121.048

64.6772, 82.9019

76.5736, 115.739

GENE X5

Condition 1, Condition 2

79.9156, 133.99

74.2754, 143.092

60.3695,129.194  
101.724,108.611  
102.069,127.923  
75.9643,132.529  
94.0378,107.827  
80.0422,130.098  
66.0671,121.057  
56.9091,91.956

EE18B134

GENE X1

Condition 1, Condition 2

79.4132, 3.40984

77.3716, 7.25675

68.5092, 25.1612

74.0787, 12.2928

76.7411, 6.69583

70.033, 18.3143

81.4593, -1.47828

75.0615, 8.08982

78.1685, 25.5808

80.2752, 21.9915

GENE X2

Condition 1, Condition 2

96.9325, 107.495

51.1026, 68.451

65.3622, 73.8112

102.146, 88.3957

70.2439, 109.345

57.226, 107.148

69.4942, 108.729

83.7821, 81.9096

44.3163, 108.722

37.3745, 92.8319

GENE X3

Condition 1, Condition 2

43.5035, 67.0741

55.3922, 85.5386

41.8244, 59.8414

57.0549, 88.7029

56.9099, 89.8782

49.4989, 98.6756

60.1026, 80.8831

51.6587, 82.6497

65.3399, 80.4484

52.3259, 84.093

GENE X4

Condition 1, Condition 2

44.9885, 5.62238

55.6323, 17.8545

31.3654, -18.2402

35.9844, 28.4036

52.5286, 14.9042

33.5002, 26.1778

38.1732, 35.844

47.385, 25.2086

37.9012, 5.96506

17.4207, 26.2547

GENE X5

Condition 1, Condition 2

46.397, 111.758

30.2397, 115.66

35.6896,112.908  
50.7124,119.442  
71.7393,132.226  
35.2683,128.001  
39.2798,129.052  
48.6922,129.59  
37.6555,113.036  
52.8478,113.385

EE18B138

GENE X1

Condition 1, Condition 2

5.77128, 141.837

23.428, 137.392

5.42631, 145.427

-6.92243, 165.746

4.63087, 156.798

35.4626, 155.577

36.2166, 140.703

18.5989, 150.515

18.8193, 140.803

18.3137, 145.908

GENE X2

Condition 1, Condition 2

14.1954, 98.7853

19.3856, 102.948

27.977, 106.234

14.348, 98.3859

6.63621, 104.945

-0.177399, 108.55

2.31798, 103.948

2.56348, 96.9015

-7.56858, 104.153

17.8275, 88.4862

GENE X3

Condition 1, Condition 2

78.5672, 20.2535

88.645, 36.1607

72.2401, 19.0141

88.1311, 60.5441

76.0662, 53.659

101.689, 8.08072

88.1765, -3.43521

79.7358, 31.4851

81.1419, 67.5084

88.8602, 9.09092

GENE X4

Condition 1, Condition 2

98.4384, 169.953

100.232, 135.064

86.6377, 138.125

106.363, 174.183

92.1069, 199.626

81.9733, 149.872

96.1519, 151.896

86.665, 173.022

84.8258, 126.609

84.9624, 157.146

GENE X5

Condition 1, Condition 2

66.3045, 5.55666

70.403, 4.21537

64.5835,10.095  
63.5277,8.77125  
59.5505,4.23857  
69.4187,9.615  
70.1978,-3.97814  
65.8096,4.59  
56.9262,25.0455  
63.9028,7.36324

EE18B140  
GENE X1  
Condition 1, Condition 2  
61.7605, 90.2763  
73.5822, 78.3212  
63.8875, 127.204  
38.1969, 72.7347  
52.0382, 84.52  
40.1343, 114.474  
80.8568, 111.141  
74.2278, 84.3764  
41.1079, 93.3996  
48.8479, 112.784  
GENE X2  
Condition 1, Condition 2  
77.2517, 201.566  
100.691, 175.151  
86.0969, 166.088  
96.1308, 168.985  
71.7142, 149.653  
91.26, 194.406  
92.7404, 152.04  
76.322, 193.915  
79.6215, 175.853  
62.4773, 197.24  
GENE X3  
Condition 1, Condition 2  
71.7092, 177.405  
55.6213, 186.116  
38.4752, 210.64  
53.9437, 193.731  
52.2461, 194.259  
21.0186, 204.185  
62.0028, 215.49  
52.9071, 204.211  
76.7107, 182.861  
56.3229, 168.235  
GENE X4  
Condition 1, Condition 2  
30.0208, 136.986  
4.87567, 138.168  
17.9849, 140.046  
38.9213, 143.758  
11.2825, 164.65  
26.3823, 145.731  
2.74263, 117.014  
31.2771, 146.902  
33.1519, 152.699  
23.148, 179.835  
GENE X5  
Condition 1, Condition 2  
65.7334, 186.841  
57.3654, 177.633

58.187,191.453  
81.3297,199.567  
61.4038,183.381  
49.5008,185.511  
78.5395,196.276  
70.3985,194.508  
44.2399,174.498  
82.3827,192.745

EE18B145  
GENE X1  
Condition 1, Condition 2  
48.8225, 184.157  
65.7856, 189.892  
35.515, 167.213  
34.3571, 176.416  
39.1329, 181.332  
37.8178, 184.873  
50.5928, 171.797  
61.2864, 170.081  
36.6049, 196.03  
42.4077, 181.399  
GENE X2  
Condition 1, Condition 2  
-1.8194, 227.241  
-1.22321, 206.227  
-5.31031, 202.676  
9.0028, 203.538  
-4.61926, 205.837  
-3.5537, 192.738  
-8.38511, 207.887  
3.44464, 196.028  
7.5984, 219.014  
7.7275, 170.631  
GENE X3  
Condition 1, Condition 2  
105.471, 101.845  
97.5411, 121.724  
93.3865, 98.2155  
109.89, 109.082  
108.205, 102.701  
76.8324, 92.8042  
90.9627, 126.469  
102.695, 105.691  
99.3827, 103.613  
87.6586, 108.706  
GENE X4  
Condition 1, Condition 2  
87.5157, 36.1728  
74.324, 61.6849  
65.4916, 27.7573  
42.8262, 23.4416  
79.1242, 37.8411  
68.2858, 15.4986  
70.1089, 33.3132  
98.7182, 71.5614  
74.1087, 33.4171  
73.9292, 31.096  
GENE X5  
Condition 1, Condition 2  
29.8338, 104.801  
50.0491, 101.021

63.5797,125.257  
31.6827,121.719  
65.7069,83.0665  
48.9268,134.577  
45.3496,103.748  
11.4705,117.952  
22.5375,93.7125  
49.3294,120.905

EE18B146

GENE X1

Condition 1, Condition 2

106.425, 185.476

73.5247, 191.686

53.3648, 177.718

76.4155, 168.96

79.4182, 174.671

57.0696, 179.095

60.227, 170.999

59.6223, 179.675

60.0894, 177.145

58.5486, 167.724

GENE X2

Condition 1, Condition 2

65.6395, 81.9496

62.9722, 103.712

65.7377, 84.589

63.3978, 103.129

55.9578, 102.535

59.5915, 119.466

62.4424, 61.9941

60.7556, 122.865

65.5711, 34.5326

66.6313, 131.949

GENE X3

Condition 1, Condition 2

61.0582, 122.138

51.3293, 112.318

48.939, 147.005

72.8944, 123.973

50.8098, 127.966

77.457, 133.093

37.5026, 143.363

60.4484, 154.69

68.2684, 147.03

77.2374, 132.588

GENE X4

Condition 1, Condition 2

61.3636, 54.1711

64.4724, 52.6488

68.5665, 54.6563

61.3541, 44.9615

76.9517, 66.1414

48.202, 60.7256

73.1787, 62.6011

72.0064, 38.727

31.9796, 69.5067

62.7847, 65.3874

GENE X5

Condition 1, Condition 2

81.9482, 193.372

78.0038, 180.159

90.4864,187.292  
92.1388,168.131  
91.764,166.379  
85.9227,201.506  
88.3102,146.48  
93.6808,165.524  
83.0544,180.73  
91.2663,234.203

EE18B150  
GENE X1  
Condition 1, Condition 2  
-16.3652, 115.859  
13.836, 82.3463  
33.4408, 115.748  
-4.38092, 119.424  
5.21608, 124.286  
-1.75278, 121.392  
2.57778, 137.105  
-4.25892, 89.9367  
14.1136, 155.532  
22.2067, 111.715  
GENE X2  
Condition 1, Condition 2  
74.25, 126.971  
68.9058, 134.242  
63.6481, 151.228  
52.7175, 148.64  
21.8589, 152.28  
54.3541, 132.799  
56.6391, 158.001  
47.1162, 161.632  
48.5569, 158.339  
68.1882, 126.943  
GENE X3  
Condition 1, Condition 2  
86.9321, 175.379  
109.28, 167.827  
101.621, 163.412  
89.5542, 168.021  
86.0511, 165.839  
72.6791, 169.178  
87.2012, 171.691  
96.1589, 168.853  
74.0305, 167.31  
114.963, 162.621  
GENE X4  
Condition 1, Condition 2  
79.1936, 160.951  
79.9518, 180.075  
77.7824, 162.461  
79.6875, 140.482  
77.2837, 178.463  
84.1378, 152.073  
81.1192, 162.319  
79.6034, 172.825  
78.9237, 147.999  
79.9981, 146.081  
GENE X5  
Condition 1, Condition 2  
20.3524, 26.6062  
13.2028, 52.6262

26.6728,59.3914  
18.7441,44.5473  
29.5419,32.3695  
39.1604,31.2251  
14.8478,11.5965  
25.9447,16.3664  
22.7612,24.1913  
24.6397,36.8886

EE19B015  
GENE X1  
Condition 1, Condition 2  
86.9648, 123.242  
75.1267, 112.936  
80.5464, 143.362  
83.3587, 129.652  
80.174, 143.417  
73.737, 114.924  
84.2916, 103.111  
93.6485, 120.32  
86.8569, 132.377  
85.2251, 122.91  
GENE X2  
Condition 1, Condition 2  
2.31329, 102.29  
16.9485, 101.808  
10.2955, 108.379  
25.0232, 98.9226  
6.39516, 105.501  
13.8647, 139.846  
5.78361, 101.046  
-0.584097, 117.795  
11.5222, 114.15  
19.2189, 79.9871  
GENE X3  
Condition 1, Condition 2  
98.6513, 37.5226  
79.0696, 40.6335  
94.5591, 34.6182  
83.4587, 10.4367  
76.7002, 40.8934  
99.3927, 27.7134  
113.613, 44.7324  
106.68, 30.7029  
88.5491, 47.8337  
89.7063, 56.3104  
GENE X4  
Condition 1, Condition 2  
104.326, 167.654  
74.3705, 173.233  
99.154, 170.916  
93.6344, 182.707  
107.865, 160.849  
90.0251, 180.078  
95.0621, 172.392  
91.5081, 167.335  
87.7004, 178.048  
106.456, 160.92  
GENE X5  
Condition 1, Condition 2  
56.1909, 165.751  
73.1068, 159.219

84.1207,197.507  
80.5763,162.091  
69.6247,137.448  
54.4489,195.436  
45.9878,176.157  
62.7124,198.346  
68.5757,125.342  
50.9917,178.56

EE19B101  
GENE X1  
Condition 1, Condition 2  
12.2232, 61.4838  
10.4596, 89.4035  
16.5756, 106.951  
10.4806, 128.495  
15.4222, 82.2629  
8.75406, 73.7025  
15.8068, 67.5986  
18.3843, 70.91  
10.6249, 119.415  
10.2236, 109.234  
GENE X2  
Condition 1, Condition 2  
93.148, 65.5787  
62.3786, 76.1015  
65.8501, 71.3254  
79.1627, 45.0747  
59.3588, 63.6407  
59.4665, 74.4033  
81.8796, 49.3303  
80.2456, 60.6825  
54.2209, 71.2725  
74.0126, 67.8557  
GENE X3  
Condition 1, Condition 2  
91.8729, 158.158  
88.103, 187.518  
100.551, 183.826  
114.311, 171.674  
92.3108, 165.776  
93.0691, 166.997  
81.6661, 163.481  
84.1505, 167.51  
93.5867, 127.685  
91.9616, 153.706  
GENE X4  
Condition 1, Condition 2  
89.0817, 112.655  
66.8043, 112.622  
88.5111, 110.766  
79.013, 114.986  
70.8802, 156.991  
83.8472, 134.213  
60.9449, 149.518  
61.4208, 127.525  
67.7936, 145.114  
69.2693, 102.461  
GENE X5  
Condition 1, Condition 2  
74.3641, 196.07  
99.9128, 195.069

90.7025,206.24  
64.3358,210.16  
78.5789,191.039  
75.7366,204.254  
80.3223,215.836  
78.4717,205.843  
95.9686,163.576  
55.5902,201.824

EP17B007

GENE X1

Condition 1, Condition 2

87.5569, 74.5962

94.9782, 15.9219

78.9526, 33.2306

76.424, 49.4909

74.4421, 67.6683

88.71, 41.5272

89.8018, 16.3764

67.3437, 77.601

71.4711, 34.8141

67.0413, 67.0357

GENE X2

Condition 1, Condition 2

46.5248, 19.4575

48.4497, 34.0982

11.2622, 27.9441

52.8284, 10.8277

46.8178, 37.2136

36.1303, 6.96061

45.8766, 15.6979

41.8648, 41.8947

60.4444, -7.9459

26.2807, 30.0918

GENE X3

Condition 1, Condition 2

91.7948, 41.9896

72.329, -11.191

67.4937, 40.5356

89.7333, 8.30213

69.598, 50.2045

93.3417, 49.6197

89.8255, 37.7146

84.6871, 54.8581

82.7634, -0.798336

72.4306, 29.0131

GENE X4

Condition 1, Condition 2

65.7845, 49.7496

80.7754, 62.0505

85.807, 49.1226

79.4723, 35.9071

85.6129, 51.5552

84.1893, 37.3683

62.162, 44.8782

71.0736, 59.1953

88.5272, 44.9744

94.3231, 54.5206

GENE X5

Condition 1, Condition 2

68.8273, 68.2584

116.132, 60.9865

85.0965,70.4019  
102.151,74.3447  
101.174,86.5419  
94.5859,72.767  
115,75.5593  
96.988,74.1413  
88.6279,66.9488  
111.855,59.9323

EP17B020  
GENE X1  
Condition 1, Condition 2  
78.6314, 51.2653  
79.686, 39.1809  
77.9777, -4.96024  
81.4236, 40.2205  
95.8653, 19.5205  
87.5027, -5.53906  
83.07, -5.5103  
88.8256, 31.445  
80.6058, 41.7124  
77.4325, 22.2045  
GENE X2  
Condition 1, Condition 2  
45.5928, 101.054  
51.9824, 79.145  
52.6628, 77.0562  
60.605, 102.191  
53.2978, 80.2279  
49.4236, 112.8  
52.0781, 132.134  
52.4614, 61.9273  
46.5651, 113.622  
47.6917, 92.1756  
GENE X3  
Condition 1, Condition 2  
16.1702, 69.1351  
8.31657, 72.152  
12.1867, 45.2651  
22.5937, 75.8843  
16.9556, 75.4296  
21.98, 49.2075  
18.5166, 38.292  
15.7397, 58.7714  
22.9463, 37.1689  
13.2923, 89.8836  
GENE X4  
Condition 1, Condition 2  
57.8447, 91.5438  
45.7667, 104.379  
71.2619, 106.856  
58.9971, 110.116  
61.8151, 116.436  
79.7809, 127.387  
48.0568, 121.364  
58.7633, 140.99  
80.8134, 119.797  
46.4453, 99.8011  
GENE X5  
Condition 1, Condition 2  
73.795, 174.053  
68.3487, 163.1

68.0057,185.9  
84.1726,169.282  
56.2291,155.504  
54.963,148.08  
49.3802,141.453  
58.7318,147.024  
69.8436,128.081  
70.6688,141.204

EP17B022  
GENE X1  
Condition 1, Condition 2  
77.823, 30.5344  
71.9948, 19.7712  
71.327, 0.0807987  
66.1081, 31.91  
75.0094, 65.3018  
66.866, 51.6862  
73.8885, 24.4889  
70.6831, 29.2379  
75.898, 46.9957  
72.0862, 33.6631  
GENE X2  
Condition 1, Condition 2  
75.1496, 102.63  
79.4265, 69.3608  
60.4295, 113.02  
61.8659, 92.4239  
67.9033, 70.5032  
88.1561, 91.174  
79.7705, 76.8921  
71.5935, 106.165  
72.7475, 87.3799  
64.1573, 75.3204  
GENE X3  
Condition 1, Condition 2  
85.3179, 75.0889  
76.1373, 62.738  
74.9515, 93.1693  
66.4943, 68.0596  
72.1735, 61.9404  
69.0347, 69.8832  
80.7993, 50.4824  
80.3739, 107.892  
83.2536, 48.1857  
77.8244, 83.4973  
GENE X4  
Condition 1, Condition 2  
45.8487, 138.958  
45.822, 140.974  
30.988, 110  
40.0297, 97.2011  
44.6163, 129.503  
54.712, 132.557  
44.4266, 138.596  
36.1101, 127.839  
32.1366, 98.3543  
39.1266, 123.232  
GENE X5  
Condition 1, Condition 2  
75.4302, 128.273  
87.1022, 160.153

101.277,125.769  
93.1655,119.028  
93.1923,154.872  
100.431,115.814  
107.885,158.61  
87.793,172.892  
100.073,197.399  
84.9053,171.378

EP17B023  
GENE X1  
Condition 1, Condition 2  
34.1033, 105.261  
38.7453, 103.162  
20.5068, 88.5412  
18.4885, 85.96  
44.9496, 82.6806  
31.487, 97.65  
44.1671, 83.9665  
19.3244, 111.383  
19.4651, 115.416  
28.9903, 82.778  
GENE X2  
Condition 1, Condition 2  
47.8226, 173.636  
37.7346, 137.287  
34.8605, 165.725  
43.5034, 179.826  
40.8636, 162.151  
35.8267, 140.745  
40.9594, 173.102  
60.7439, 155.926  
19.4792, 173.141  
48.6831, 191.12  
GENE X3  
Condition 1, Condition 2  
80.0372, 63.2824  
91.8799, 41.8176  
92.3848, 3.60006  
109.153, 31.1086  
83.6252, 75.0615  
99.3979, 47.2918  
137.693, 30.8181  
94.3312, 56.6683  
84.6257, 45.2829  
102.636, 7.27054  
GENE X4  
Condition 1, Condition 2  
66.0165, 41.0906  
68.0844, -16.7759  
57.5142, 45.9459  
67.9241, 0.402508  
50.17, 64.795  
68.3169, 2.83035  
97.4263, 24.0953  
40.8711, -9.32254  
73.0257, 12.3242  
47.9286, -5.5946  
GENE X5  
Condition 1, Condition 2  
74.6902, 79.3758  
80.8217, 102.856

62.7072,94.5112  
85.0087,91.355  
66.6847,75.7151  
80.1332,78.1032  
86.557,90.2322  
68.4741,99.8421  
68.8683,105.133  
74.6949,105.243

EP17B024

GENE X1

Condition 1, Condition 2

63.1758, 78.6425

28.9357, 62.5

50.727, 63.7945

35.6405, 75.1338

45.1749, 69.285

27.642, 74.7948

41.8326, 75.3818

54.2444, 92.0167

27.5355, 57.1544

45.6406, 69.679

GENE X2

Condition 1, Condition 2

40.9101, 90.0882

54.2625, 79.7118

37.4191, 99.3655

56.4663, 82.124

36.3058, 65.2862

44.5887, 52.139

46.029, 63.6255

46.0633, 94.1431

47.9033, 67.6077

47.9823, 69.2656

GENE X3

Condition 1, Condition 2

53.9076, 149.694

26.2811, 145.508

74.2712, 142.904

28.1972, 165.977

46.0182, 131.68

20.9026, 147.588

51.8562, 146.783

58.6437, 144.994

47.5856, 163.104

65.0967, 167.289

GENE X4

Condition 1, Condition 2

28.3219, 155.418

11.412, 168.597

38.7141, 149.131

23.8699, 165.67

36.3289, 147.853

47.0555, 162.523

47.9413, 151.718

20.8974, 150.329

32.0154, 148.155

22.3095, 147.976

GENE X5

Condition 1, Condition 2

2.0604, 216.16

16.145, 179.913

12.9556,173.755  
3.48034,198.311  
20.5628,178.203  
6.73892,190.732  
28.0021,195.942  
21.3636,182.401  
18.0038,194.911  
12.5891,195.268

ME16B104

GENE X1

Condition 1, Condition 2

27.8713, 155.652

13.4037, 184.266

29.0869, 116.785

16.2491, 152.507

25.0293, 141.635

13.3502, 139.558

5.4397, 149.624

10.1517, 132.841

5.48332, 165.208

30.6788, 139.472

GENE X2

Condition 1, Condition 2

35.5098, 14.5466

48.4319, 38.4626

47.0351, 40.8634

32.2153, 45.6003

44.0182, 2.91718

18.374, 43.766

25.8769, 31.2731

54.5636, 17.1082

55.5838, 49.3352

56.3487, 41.307

GENE X3

Condition 1, Condition 2

37.2985, 133.894

49.8752, 134.815

47.9665, 133.675

52.048, 109.713

56.5891, 130.396

29.1404, 121.766

53.427, 99.9542

56.103, 137.375

45.8744, 129.518

28.1926, 160.004

GENE X4

Condition 1, Condition 2

51.0771, 4.86755

19.1034, 7.99042

12.7376, 9.43342

33.5433, -3.70881

45.9946, 30.236

22.3827, 32.2519

37.521, 31.4562

9.70005, -4.06573

44.6249, 4.09196

43.4696, 21.9673

GENE X5

Condition 1, Condition 2

46.1865, 160.063

53.0848, 170.426

73.5528,173.692  
58.5269,180.795  
44.0877,168.289  
26.2343,177.932  
50.5058,172.025  
25.9185,162.109  
33.4365,170.062  
50.7514,178.754

ME16B114

GENE X1

Condition 1, Condition 2

105.297, 63.9569

105.45, 65.8752

92.135, 73.9635

87.1716, 75.7081

91.9322, 70.2404

93.3439, 65.2015

95.254, 89.0014

103.911, 78.44

91.2773, 74.1252

97.5483, 46.1957

GENE X2

Condition 1, Condition 2

39.1355, 161.595

34.1761, 132.477

31.2823, 151.527

27.6968, 146.048

31.3991, 128.291

27.1256, 145.943

39.8153, 139.646

39.1708, 104.288

44.2589, 149.397

28.008, 129.634

GENE X3

Condition 1, Condition 2

65.6841, 181.431

92.7203, 144.756

85.2596, 165.017

73.2333, 209.241

65.2107, 127.423

92.4847, 181.258

74.8592, 145.013

103.969, 185.684

80.7347, 144.118

82.0205, 126.936

GENE X4

Condition 1, Condition 2

57.5956, 102.613

54.2115, 107.338

60.1147, 114.796

54.1398, 114.407

74.4616, 102.447

81.8386, 95.0027

27.927, 95.9664

64.2577, 88.9608

71.9448, 109.874

55.496, 121.878

GENE X5

Condition 1, Condition 2

34.6901, 188.313

32.4242, 197.012

36.9612,190.425  
34.9792,185.275  
32.2792,187.405  
34.6371,197.574  
35.1728,189.952  
37.2247,179.729  
35.1808,202.159  
32.1905,201.05

ME16B122

GENE X1

Condition 1, Condition 2

48.8855, 94.7814

50.5171, 72.6899

50.1054, 62.2399

43.5863, 74.4557

60.6755, 80.7455

57.9384, 63.8521

56.0505, 84.8938

74.5156, 60.6929

44.4536, 77.7231

56.2974, 88.8169

GENE X2

Condition 1, Condition 2

90.9106, 139.612

84.6247, 109.018

80.9858, 81.4689

79.5242, 126.597

88.4937, 93.1643

83.7587, 96.0623

91.2058, 113.685

93.5467, 114.186

94.9588, 99.8221

79.8165, 151.702

GENE X3

Condition 1, Condition 2

70.9308, 151.13

49.9998, 169.008

50.2981, 194.167

39.3749, 158.861

81.2675, 152.244

45.6506, 161.516

61.7528, 168.023

38.5391, 165.827

66.9509, 161.439

79.6921, 191.45

GENE X4

Condition 1, Condition 2

58.4594, 79.969

36.8496, 66.048

64.735, 89.1785

44.6273, 108.328

69.7805, 88.1008

46.4109, 109.918

61.0102, 107.117

71.7383, 94.5054

66.1949, 97.2321

60.7454, 80.1378

GENE X5

Condition 1, Condition 2

64.6191, 28.8014

41.7665, 40.4401

43.0667,30.3868  
52.7025,38.2025  
43.0466,32.74  
47.9621,22.7932  
46.5018,27.7088  
36.8672,12.9545  
30.2492,30.7382  
44.2051,6.13727

ME16B132

GENE X1

Condition 1, Condition 2

86.3101, 83.8953

45.8944, 96.3453

72.9447, 62.5925

73.7483, 87.9403

62.7742, 96.667

63.2979, 106.462

103.144, 69.7523

60.9625, 107.806

88.6704, 76.2812

86.442, 87.0056

GENE X2

Condition 1, Condition 2

29.3156, 106.344

15.3873, 124.952

31.6372, 108.516

18.1085, 140.444

18.1128, 114.723

29.8559, 127.233

6.08071, 112.834

9.0926, 172.827

12.7496, 110.385

30.0525, 130.084

GENE X3

Condition 1, Condition 2

12.8968, 154.486

8.25246, 151.899

-0.541231, 118.74

8.07687, 135.887

-9.10576, 147.846

12.0026, 128.308

54.5237, 172.442

8.43148, 148.885

16.2882, 158.559

12.3239, 171.722

GENE X4

Condition 1, Condition 2

85.3485, 145.562

59.077, 166.693

77.8535, 169.961

76.9278, 157.463

72.5189, 160.368

70.9288, 163.279

66.7877, 163.537

64.6376, 167.385

72.3178, 146.016

82.8857, 146.842

GENE X5

Condition 1, Condition 2

32.5279, 127.25

20.4976, 169.552

7.6992,171.062  
18.3331,130.889  
21.2714,156.339  
23.4702,140.889  
22.9082,137.305  
35.0732,123.151  
21.5675,136.806  
28.7979,158.743

ME16B158

GENE X1

Condition 1, Condition 2

38.9569, 139.462

46.5917, 148.844

47.2569, 139.231

49.3229, 142.673

44.5869, 150.508

48.4895, 151.07

49.6477, 128.723

47.2765, 180.546

42.491, 149.963

43.0562, 163.366

GENE X2

Condition 1, Condition 2

59.6279, 45.7895

58.3165, 14.7685

53.3914, 55.1546

48.3996, 36.2072

55.542, 73.4391

55.9251, 90.756

56.1457, 47.9277

50.979, 59.2796

58.2262, 30.3646

56.1614, 73.6116

GENE X3

Condition 1, Condition 2

36.2775, 33.6087

15.2992, 21.5222

16.8285, -0.385617

24.8163, 0.830471

13.4271, 18.6144

31.8893, -0.954313

12.3319, 25.9151

22.5279, 12.0318

6.17597, 45.7835

24.4154, 12.4716

GENE X4

Condition 1, Condition 2

52.8539, 196.746

24.0596, 173.927

60.4141, 178.899

26.5452, 194.901

40.6916, 196.154

36.9218, 187.871

34.5299, 204.365

38.7263, 178.16

44.249, 186.666

36.1372, 186.254

GENE X5

Condition 1, Condition 2

43.6304, 200.908

83.586, 189.057

82.6528,195.724  
52.8038,203.002  
60.5907,180.644  
81.2199,188.222  
58.6274,185.565  
68.9785,184.741  
99.7541,193.736  
79.3159,190.14

ME17B010

GENE X1

Condition 1, Condition 2

75.3058, 85.7684

117.223, 93.3185

115.087, 103.868

113.415, 118.284

105.141, 125.257

100.389, 147.757

83.4701, 89.071

99.7673, 122.91

103.08, 88.2414

101.831, 134.438

GENE X2

Condition 1, Condition 2

36.7563, 96.484

30.6264, 103.078

45.7198, 101.357

24.5369, 97.1353

33.0154, 113.329

35.6349, 91.4525

19.982, 82.8191

30.1291, 114.95

39.9492, 128.315

27.8781, 129.526

GENE X3

Condition 1, Condition 2

45.1975, 90.5157

-7.88118, 87.1684

4.21961, 57.2098

-4.18913, 61.5541

2.92727, 108.003

-7.08129, 80.5553

-7.75778, 78.5844

26.813, 83.5375

24.5115, 104.133

4.54994, 96.1469

GENE X4

Condition 1, Condition 2

113.197, 181.422

83.1258, 198.823

80.7594, 189.913

91.8359, 205.876

122.45, 197.714

134.049, 208.119

104.196, 205.671

97.6846, 212.624

65.9876, 200.795

119.394, 177.782

GENE X5

Condition 1, Condition 2

58.7935, 49.402

39.7354, 50.7577

58.1739,42.7623  
55.6038,62.7856  
44.281,52.0261  
32.9435,48.5053  
53.373,47.3308  
48.633,61.6235  
40.8645,35.2095  
59.2974,62.6336

ME17B072

GENE X1

Condition 1, Condition 2

45.0577, 56.5507

46.4537, 47.1957

57.6597, 57.9299

38.76, 47.7642

49.3111, 82.5823

47.0548, 41.0569

43.2399, 45.0085

58.8924, 41.3884

29.681, 42.3833

52.6638, 52.8921

GENE X2

Condition 1, Condition 2

55.7482, 53.5663

42.3611, 108.246

48.329, 61.562

44.2418, 107.771

42.1157, 124.704

54.9645, 109.754

45.5861, 81.3269

50.2425, 101.749

58.4939, 112.051

30.7313, 129.93

GENE X3

Condition 1, Condition 2

50.0328, 109.519

78.6865, 54.045

42.3603, 93.6117

64.0764, 117.672

51.2154, 98.9916

61.9089, 98.5504

73.8606, 99.2211

83.3315, 102.593

78.713, 97.4163

73.5005, 65.1972

GENE X4

Condition 1, Condition 2

39.0686, 181.73

21.348, 212.22

24.4019, 180.73

29.1045, 192.945

36.1637, 182.828

29.9747, 173.742

16.94, 195.089

25.4952, 201.698

8.5107, 204.478

21.3123, 148.305

GENE X5

Condition 1, Condition 2

8.1704, 117.623

27.1614, 174.163

10.6412,179.576  
9.96045,133.423  
33.6735,106.858  
33.4047,106.067  
26.53,108.134  
38.8471,132.959  
12.1174,162.027  
6.21559,152.54

ME17B075

GENE X1

Condition 1, Condition 2

38.4539, 116.546

44.5731, 106.992

36.033, 123.043

37.487, 114.209

43.1115, 126.652

39.1067, 124.846

38.1575, 140.298

50.4658, 119.19

36.2672, 124.072

34.8554, 125.935

GENE X2

Condition 1, Condition 2

0.14, 59.5866

5.72607, 76.0701

2.4799, 74.3771

3.76099, 60.9432

5.65869, 51.0789

3.48459, 78.003

-1.44056, 71.7674

0.389224, 64.7528

4.87292, 67.7754

8.47296, 95.1195

GENE X3

Condition 1, Condition 2

16.6018, 151.89

-0.750884, 117.29

-12.1228, 122.572

7.02087, 128.067

-37.8868, 110.207

-4.22387, 124.586

5.04721, 111.624

6.19042, 109.837

14.5403, 122.788

16.4355, 142.378

GENE X4

Condition 1, Condition 2

41.8151, 123.786

34.57, 112.856

38.7397, 107.615

28.1452, 81.9089

28.3003, 118.132

34.7156, 143.8

23.2281, 125.376

30.7135, 146.05

51.3883, 124.505

43.9648, 118.131

GENE X5

Condition 1, Condition 2

18.8876, 123.102

-2.77684, 48.2705

47.5108,62.1168  
22.7471,59.5594  
48.0002,98.7153  
5.20399,114.87  
7.10259,109.294  
10.4129,73.2101  
34.7344,99.0035  
38.0927,67.3954

ME17B117

GENE X1

Condition 1, Condition 2

40.6783, 31.0408

27.5983, 43.2003

58.7601, 36.6435

35.4849, 32.4102

61.1907, 12.5252

45.3536, 41.3769

34.108, 17.6149

44.9616, 60.5716

28.9398, 26.6828

36.6271, 32.6754

GENE X2

Condition 1, Condition 2

17.5782, 24.0758

7.56561, 74.8519

21.242, 49.5798

25.512, 92.5918

11.9151, 55.2211

3.53455, 51.8013

23.1768, 40.179

10.4846, 29.8234

15.205, 42.6631

14.743, 61.3669

GENE X3

Condition 1, Condition 2

89.1841, 56.917

82.7971, 43.1643

84.9176, 81.9104

82.2922, 78.0125

80.978, 67.5815

77.7939, 64.8211

80.8506, 73.924

71.2921, 64.2216

69.3782, 77.4186

86.7005, 56.253

GENE X4

Condition 1, Condition 2

87.7505, 70.5257

102.923, 56.1928

61.8501, 51.769

104.502, 48.875

69.6121, 54.3183

61.3614, 70.3054

76.2551, 59.032

99.0641, 70.7517

80.0373, 53.7091

99.3122, 47.5444

GENE X5

Condition 1, Condition 2

21.6837, 174.3

-13.0929, 160.059

1.64756,191.833  
7.71629,156.841  
32.7811,219.173  
13.2068,182.694  
13.272,202.111  
25.0944,214.275  
3.21266,185.495  
-15.8794,194.946

ME17B121

GENE X1

Condition 1, Condition 2

66.4331, 53.815

72.215, 71.9033

66.4875, 52.2445

66.4995, 63.9354

53.0618, 57.6227

65.8777, 61.499

72.3087, 48.9615

72.8454, 65.2161

70.3752, 72.9293

62.9156, 55.843

GENE X2

Condition 1, Condition 2

18.5037, 163.742

13.888, 173.382

13.2418, 150.414

8.50145, 122.152

0.958711, 175.367

3.10104, 146.4

19.3874, 132.7

13.7355, 161.635

9.58596, 156.168

27.3713, 172.845

GENE X3

Condition 1, Condition 2

62.717, 154.623

85.1495, 159.895

59.5516, 163.249

50.1, 163.727

60.5012, 166.804

56.8888, 168.933

64.2032, 163.074

53.9745, 153.491

53.6715, 148.21

60.2066, 160.973

GENE X4

Condition 1, Condition 2

67.2908, 95.4456

62.2532, 86.7754

54.4662, 91.2541

62.2776, 96.4764

59.6344, 90.4726

61.1527, 112.434

67.9084, 113.697

46.6487, 108.897

57.6256, 87.2919

64.4719, 105.217

GENE X5

Condition 1, Condition 2

1.27452, 51.2447

-0.65939, 18.2408

6.3137,18.7083  
4.69794,58.093  
1.65571,30.8183  
6.65691,26.0451  
6.67687,43.3888  
2.88107,26.6447  
2.40309,46.6629  
6.09373,24.293

ME17B135

GENE X1

Condition 1, Condition 2

62.7766, 27.7533

59.7339, 27.5916

58.5637, 35.6214

33.5637, 11.0379

62.7155, 29.7709

56.4123, 18.9082

63.0424, 20.6076

36.4414, 24.7615

57.9724, 24.1528

51.6782, 22.1559

GENE X2

Condition 1, Condition 2

138.863, 100.828

70.6424, 70.2706

112.926, 109.375

86.8742, 85.2983

115.34, 94.1247

102.935, 89.5472

83.6695, 83.3601

110.977, 112.617

106.696, 96.556

108.276, 86.4822

GENE X3

Condition 1, Condition 2

70.4522, 123.317

58.6148, 118.146

71.0936, 151.97

87.5991, 173.189

80.7021, 185.556

89.1856, 167.74

78.3921, 140.368

70.3666, 173.261

62.2351, 151.929

83.3463, 119.019

GENE X4

Condition 1, Condition 2

37.5864, 46.4799

24.742, 42.1153

27.3441, 61.5628

13.766, 35.9973

36.8649, 59.4914

-0.85193, 40.1988

12.9257, 40.7118

21.5955, 44.0941

21.7623, 53.2865

18.8256, 36.6918

GENE X5

Condition 1, Condition 2

62.0502, 100.52

66.8878, 106.086

48.7121,103.073  
66.0005,119.378  
69.5485,130.466  
58.6514,99.3741  
80.5047,116.18  
61.583,113.472  
70.6212,97.2339  
72.9102,123.156

ME17B142  
GENE X1  
Condition 1, Condition 2  
24.1377, 67.9946  
6.99386, 60.9062  
3.51592, 58.2787  
-6.57815, 72.5177  
5.74084, 61.1863  
12.4085, 52.2541  
0.286943, 71.3123  
19.4414, 77.256  
5.14252, 68.8314  
22.4605, 68.0983  
GENE X2  
Condition 1, Condition 2  
48.3578, 22.2971  
52.6324, 18.5077  
39.7174, 36.6209  
62.0014, 42.3734  
60.1729, 31.9061  
51.4901, 28.7108  
44.3322, 26.0777  
51.0155, 14.5733  
58.6339, 25.1358  
78.0409, 26.8633  
GENE X3  
Condition 1, Condition 2  
17.1639, 50.8454  
13.3421, 48.1654  
23.3693, 53.3688  
12.2059, 40.5515  
18.1567, 44.1172  
3.19916, 35.5211  
32.3981, 51.6407  
0.765049, 48.8935  
3.84458, 44.2119  
6.53739, 36.5952  
GENE X4  
Condition 1, Condition 2  
11.8076, 124.215  
9.64813, 103.338  
0.444355, 82.5999  
18.0779, 90.5018  
12.475, 102.036  
22.2247, 109.109  
18.6849, 98.3123  
25.9072, 116.977  
12.1507, 72.302  
14.0054, 110.605  
GENE X5  
Condition 1, Condition 2  
64.3253, 125.972  
52.3742, 104.277

35.5534,104.114  
46.1861,60.4773  
65.8666,110.236  
24.0491,70.2754  
27.3642,100.286  
39.9469,104.291  
36.8725,108.94  
35.7628,106.84

ME17B149  
GENE X1  
Condition 1, Condition 2  
21.7435, 40.0587  
5.14282, 89.6856  
26.8793, 69.928  
11.7804, 47.4553  
20.803, 24.8669  
15.6039, 60.0021  
13.8941, 18.3853  
20.1065, 40.8731  
16.4677, 78.3657  
23.3763, 65.5907  
GENE X2  
Condition 1, Condition 2  
106.21, 39.3172  
86.3236, 46.925  
96.1729, 41.7096  
96.9116, 47.3223  
111.532, 27.1919  
84.365, 39.8451  
90.1625, 40.5677  
98.2596, 51.6607  
78.906, 37.6653  
88.9048, 39.1936  
GENE X3  
Condition 1, Condition 2  
110.387, 111.659  
83.278, 114.318  
86.9654, 107.265  
86.6984, 113.55  
79.9445, 40.9583  
88.1154, 45.219  
80.7786, 80.4258  
100.947, 73.5101  
92.1596, 53.2491  
94.5138, 101.786  
GENE X4  
Condition 1, Condition 2  
50.1982, -20.634  
13.5872, 30.9326  
16.6013, 28.3764  
12.4644, -6.87156  
15.269, 47.6845  
25.8805, 26.2817  
13.1947, 44.8833  
18.7155, 11.453  
8.79107, 14.2118  
7.05613, 23.3925  
GENE X5  
Condition 1, Condition 2  
47.4384, 56.304  
26.2908, 28.1017

35.0108,40.7742  
58.6407,34.6036  
44.8804,67.5526  
60.9912,53.7814  
4.66568,50.6499  
37.4043,17.4895  
53.3719,72.7222  
34.6668,51.658

ME17B150  
GENE X1  
Condition 1, Condition 2  
64.5622, 84.1278  
54.917, 94.1265  
76.837, 90.8492  
48.4816, 86.9117  
53.4896, 96.0753  
68.9813, 72.15  
89.0009, 101.315  
48.9099, 96.9115  
62.4844, 95.8451  
53.7788, 75.6079  
GENE X2  
Condition 1, Condition 2  
51.9256, 167.344  
89.4466, 168.495  
73.9594, 144.893  
37.5347, 137.783  
40.7326, 148.203  
40.1719, 154.769  
67.9133, 188.641  
62.5906, 144.352  
66.5977, 149.984  
46.3454, 184.014  
GENE X3  
Condition 1, Condition 2  
49.0869, 54.0795  
66.8714, 45.7017  
81.7475, 64.922  
74.6566, 78.0408  
59.6404, 79.8333  
62.387, 79.7023  
77.9192, 60.8709  
99.2459, 92.4491  
57.974, 69.589  
53.6579, 57.256  
GENE X4  
Condition 1, Condition 2  
29.8507, 9.11937  
28.5354, 11.4224  
21.7871, 22.4787  
19.2381, 13.4874  
30.6423, -20.0747  
29.1728, -5.84175  
24.2202, 9.45953  
25.7337, 6.63923  
30.7749, -4.61194  
21.1837, -2.86315  
GENE X5  
Condition 1, Condition 2  
13.0372, -29.3588  
7.00933, 13.7737

12.8072,12.0938  
8.281,53.969  
20.8518,14.6754  
-7.72582,49.3973  
5.4609,15.918  
16.6637,48.4188  
15.3283,23.9554  
-1.19486,13.7726

ME17B154  
GENE X1  
Condition 1, Condition 2  
102.224, 86.4524  
87.9037, 111.855  
117.816, 64.6879  
98.88, 74.6909  
89.0256, 90.1735  
94.8782, 89.6414  
94.7666, 109.412  
99.0535, 90.4026  
91.6153, 86.1982  
104.272, 97.484  
GENE X2  
Condition 1, Condition 2  
10.8022, 71.5609  
7.96407, 75.6603  
28.6189, 74.2954  
16.079, 48.3  
18.4108, 59.7933  
20.9515, 72.0886  
14.6049, 53.7924  
12.2142, 53.574  
7.91811, 74.7831  
6.75766, 83.0827  
GENE X3  
Condition 1, Condition 2  
99.2074, 157.743  
89.4862, 178.284  
92.9526, 192.185  
95.2673, 199.684  
69.0999, 172.428  
88.5035, 230.96  
79.3535, 211.578  
90.0663, 212.537  
92.4186, 193.419  
77.1229, 171.765  
GENE X4  
Condition 1, Condition 2  
77.8337, 169.231  
84.7453, 175.671  
87.404, 164.786  
60.3759, 188.239  
63.1681, 193.515  
65.8485, 187.149  
74.2696, 203.311  
66.5513, 185.872  
51.2492, 183.261  
44.8431, 182.095  
GENE X5  
Condition 1, Condition 2  
1.0643, 166.391  
-1.51334, 166.897

6.97249,173.569  
1.93758,172.995  
4.31454,152.359  
5.71723,174.496  
4.19593,168.257  
8.01269,162.961  
7.51231,163.208  
3.55525,178.489

ME17B156

GENE X1

Condition 1, Condition 2

49.3301, 77.8492

7.22174, 80.0397

30.6004, 42.5761

46.7732, 70.1909

54.5255, 77.9934

41.6914, 53.4681

44.6189, 91.7529

54.7625, 77.7558

26.6306, 100.155

36.8907, 82.5985

GENE X2

Condition 1, Condition 2

46.0537, 19.4083

48.987, 16.7418

46.6286, 19.9652

38.4408, 17.1403

40.8711, 21.5336

51.501, 29.1966

49.7083, 22.7132

59.7595, 17.03

43.7393, 1.18842

28.5326, 20.3403

GENE X3

Condition 1, Condition 2

43.2619, 181.319

31.9835, 158.783

14.2267, 156.072

30.9267, 133.481

20.1793, 160.423

43.0396, 170.448

5.84362, 161.178

31.1892, 169.277

26.021, 170.127

44.693, 156.614

GENE X4

Condition 1, Condition 2

69.1995, 68.5206

77.5865, 84.0863

76.2835, 24.51

70.9745, 62.7887

104.488, 62.56

84.6366, 63.5735

83.4707, 100.272

74.562, 55.3725

63.7469, 59.4561

82.4037, 70.2502

GENE X5

Condition 1, Condition 2

38.4823, 106.765

42.1119, 143.092

37.8604,113.705  
36.7879,119.642  
43.1412,120.392  
38.2853,120.74  
43.292,119.01  
42.6906,140.564  
43.9964,127.748  
40.1433,136.613

ME17B161

GENE X1

Condition 1, Condition 2

14.8996, 92.2671

4.46705, 102.723

12.1084, 80.7547

28.6251, 82.7059

-3.40482, 93.9748

-2.56009, 110.635

-4.02245, 106.892

-7.11842, 78.62

9.32388, 96.7458

-4.45075, 98.9037

GENE X2

Condition 1, Condition 2

69.5497, -5.84884

36.6, 9.65755

85.6836, -24.6045

41.7642, 1.57525

80.1254, -4.75808

59.3346, 8.81187

84.301, -10.5398

41.6253, 5.38844

66.6929, -1.05515

56.899, 12.6463

GENE X3

Condition 1, Condition 2

81.7869, 127.196

88.5874, 176.344

67.1013, 156.739

69.8917, 157.243

77.3528, 164.447

79.5171, 157.285

78.3121, 149.827

70.5047, 169.743

72.4086, 163.164

75.239, 171.092

GENE X4

Condition 1, Condition 2

-12.1144, 61.089

5.55133, 74.5357

10.2383, 108.297

4.81584, 78.2269

4.38477, 102.63

9.02249, 58.4609

-2.78464, 70.5978

9.73591, 67.159

-3.00213, 70.3317

3.72324, 57.0678

GENE X5

Condition 1, Condition 2

25.9862, 168.711

33.0526, 169.286

32.525,163.879  
41.4709,174.862  
26.3256,158.672  
24.0114,178.298  
37.1804,168.179  
27.9356,167.18  
34.1918,183.809  
22.2277,174.792

ME17B171

GENE X1

Condition 1, Condition 2

94.8953, 70.4402

77.7767, 63.5484

51.8509, 75.8343

39.8869, 63.4022

53.0855, 48.9437

100.955, 78.0437

53.8899, 48.0651

64.1197, 86.0454

43.7005, 63.8981

32.4171, 76.1339

GENE X2

Condition 1, Condition 2

81.0587, 156.686

66.9048, 179.529

72.478, 189.65

65.992, 155.481

60.1249, 176.31

74.788, 159.911

60.3746, 165.228

74.6301, 181.421

73.8629, 184.764

63.7939, 166.423

GENE X3

Condition 1, Condition 2

36.1134, 179.03

53.4306, 183.866

17.3601, 226.931

52.727, 224.627

60.9461, 194.023

32.7779, 241.458

36.6129, 192.472

51.0383, 186.758

39.2306, 223.233

15.983, 213.417

GENE X4

Condition 1, Condition 2

81.5449, 24.8739

41.0098, 19.411

81.6618, 8.26643

92.357, -15.4873

107.757, 28.5866

86.2356, -3.10339

91.5364, 17.3572

73.8411, 9.98922

63.117, 7.56554

86.2662, 9.49213

GENE X5

Condition 1, Condition 2

45.8142, -15.4829

40.8146, 4.46396

44.8197,30.5955  
49.1862,21.3381  
29.525,9.26752  
51.8462,14.093  
37.4523,37.5454  
35.2947,12.7556  
57.4464,0.501723  
52.0087,23.5427

MM16B004

GENE X1

Condition 1, Condition 2

43.2621, 15.111

12.4182, 9.87845

41.7744, 1.34038

25.5742, 24.1725

59.924, -1.33463

40.0635, 0.581063

51.8909, -19.5374

50.7857, 3.93235

46.0265, 6.70474

32.0792, 4.19169

GENE X2

Condition 1, Condition 2

83.2537, 128.189

53.1937, 149.461

80.9904, 158.527

67.7328, 127.562

88.0825, 122.499

81.4755, 131.657

62.0678, 154.104

59.3814, 150.321

63.6192, 139.527

94.9698, 148.509

GENE X3

Condition 1, Condition 2

4.17903, 56.2139

8.94737, 45.8532

-10.7208, 54.7427

-18.1982, 74.1454

-4.58844, 65.4824

-7.17674, 74.7521

-4.732, 93.6539

11.2769, 46.1751

-0.971381, 55.1955

5.95547, 51.8391

GENE X4

Condition 1, Condition 2

-0.54524, 129.235

-4.7546, 126.93

10.2399, 128.62

13.211, 112.292

-17.3601, 111.366

8.47573, 118.642

36.0525, 126.25

21.2878, 133.071

17.6255, 119.259

-9.21434, 116.952

GENE X5

Condition 1, Condition 2

-6.8543, 32.9184

27.273, 20.7029

-2.16887,-7.35816  
10.0496,22.7761  
6.41118,48.8704  
6.14905,37.0458  
12.2357,46.6063  
5.20684,36.9368  
-1.22166,56.3086  
3.10348,41.4727

MM17B003

GENE X1

Condition 1, Condition 2

78.1109,-15.2271

102.055,-22.8823

93.4357,12.8489

100.117,-5.2236

89.0324,-17.9861

101.582,45.0378

94.574,-12.7624

94.0369,-18.0373

76.3513,-38.0468

84.0308,-10.5077

GENE X2

Condition 1, Condition 2

101.68,80.0939

95.7963,62.4859

87.226,66.6262

111.316,85.8275

94.9494,93.2916

88.4958,89.9763

89.7479,85.4601

96.1476,76.2761

77.3555,77.7269

101.398,96.1298

GENE X3

Condition 1, Condition 2

84.5861,16.7468

81.3069,26.1809

85.3954,24.852

76.8864,15.0912

77.4197,5.35175

79.6051,21.8417

70.589,36.3313

79.4006,40.9414

81.8078,13.1004

69.7125,33.4405

GENE X4

Condition 1, Condition 2

22.5863,47.9087

19.7613,15.5453

17.7877,66.0791

15.7102,57.6132

15.9821,82.2652

17.4081,40.6736

22.1428,33.9355

24.6785,29.2076

25.513,23.1328

20.4577,58.9968

GENE X5

Condition 1, Condition 2

20.2752,83.4823

24.081,80.9266

21.266,85.2639  
24.121,88.6593  
24.7929,94.0351  
18.8954,76.2072  
18.1793,77.1911  
18.9257,92.2701  
20.6908,90.9722  
19.0056,89.8482

MM17B004

GENE X1

Condition 1, Condition 2

82.8911, 154.552

74.9156, 132.556

75.9004, 162.03

53.7909, 164.813

67.5322, 152.361

95.905, 134.154

90.0143, 125.929

65.8033, 127.699

70.0981, 155.12

94.3396, 160.822

GENE X2

Condition 1, Condition 2

13.5143, 38.5834

19.5446, 27.808

15.8445, 19.0537

26.1673, 11.2592

35.0377, 12.7672

27.799, 25.8298

17.1503, 25.9212

10.8993, 27.8203

19.1353, 22.6566

8.17123, 17.2664

GENE X3

Condition 1, Condition 2

40.9798, 173.137

37.4284, 148.039

27.8532, 183.227

20.0292, 180.298

54.4766, 160.542

70.6932, 145.684

50.3847, 184.485

50.5336, 150.886

61.1428, 191.769

39.0644, 173.036

GENE X4

Condition 1, Condition 2

68.7603, 53.2731

44.8229, 42.8856

30.3754, 48.7914

53.8724, 47.3972

46.8897, 40.1495

38.7943, 36.9638

50.367, 25.2043

24.4925, 21.9058

28.473, 70.8321

12.1908, 31.9933

GENE X5

Condition 1, Condition 2

34.8862, 46.2687

45.9303, 42.2904

54.7991,69.519  
43.1587,54.2918  
71.8388,55.5429  
48.7677,46.9722  
62.2466,69.6009  
46.5277,38.2464  
44.1302,53.1996  
67.5996,69.023

MM17B016

GENE X1

Condition 1, Condition 2

65.385, 181.343

68.6819, 178.589

84.4354, 159.421

81.6797, 189.587

68.8644, 119.833

70.8559, 127.921

76.3521, 180.269

68.5438, 197.964

62.4502, 144.083

81.1707, 178.989

GENE X2

Condition 1, Condition 2

30.5526, 44.5467

34.0227, 24.1436

32.3778, 50.9777

19.0318, -4.23839

22.4343, 60.8856

38.6102, 39.2051

29.7857, 33.0713

56.9323, 41.3423

41.6685, 14.6877

17.3022, 47.1906

GENE X3

Condition 1, Condition 2

85.0186, 160.856

81.2324, 168.288

71.8629, 164.084

100.728, 178.147

84.7921, 169.266

73.6722, 171.614

79.5198, 168.22

48.1932, 130.604

81.3399, 157.352

93.7409, 183.137

GENE X4

Condition 1, Condition 2

13.9624, 188.606

35.5873, 187.88

-13.3492, 226.471

21.4441, 194.005

-22.5972, 226.097

-4.67117, 176.679

-3.15946, 228.685

12.6314, 209.366

-8.37511, 195.11

27.3465, 178.179

GENE X5

Condition 1, Condition 2

46.9247, 66.1215

58.3784, 25.0317

67.1767,38.6282  
51.1487,10.83  
57.7211,32.1656  
58.8599,30.9003  
46.6365,51.2987  
47.7884,49.5394  
53.0954,23.1075  
56.1534,66.5495

NA17B005

GENE X1

Condition 1, Condition 2

17.3828, 84.4121

41.3036, 88.0678

54.5655, 78.548

21.9347, 75.935

57.6186, 75.4566

40.5699, 81.3752

38.8154, 82.3504

55.4161, 91.3844

24.0715, 90.92

54.2979, 63.588

GENE X2

Condition 1, Condition 2

32.6792, 29.8415

33.2176, 34.3442

31.701, 106.523

21.5793, 1.68634

31.7401, 85.9658

43.7355, 47.8522

13.0791, 60.979

21.9669, 73.9428

22.3269, 64.0528

25.9369, 45.2774

GENE X3

Condition 1, Condition 2

51.3761, 52.3764

63.1289, 107.202

40.4007, 48.2578

85.4564, 42.3781

45.8621, 35.2184

66.5698, 64.7889

33.9043, 46.8841

38.9015, 88.12

57.8692, 29.7114

53.7101, 54.2173

GENE X4

Condition 1, Condition 2

19.0738, 55.0385

46.4005, 20.3593

25.9681, 65.401

61.1749, 47.4505

36.5469, 71.049

22.962, 37.6927

26.9199, 79.52

26.6464, 69.3727

12.9693, 15.9176

57.8527, 40.6575

GENE X5

Condition 1, Condition 2

66.8632, 24.772

54.8345, 2.75401

74.1963,7.44182  
62.8248,-21.4474  
72.3136,19.1349  
75.166,12.9098  
51.0105,-20.95  
70.5877,10.8511  
64.4453,-12.6117  
70.9816,-6.41452

NA17B006

GENE X1

Condition 1, Condition 2

34.6314, 27.7745

32.1112, 19.6797

26.2176, 8.26693

16.3379, -5.62092

36.962, 5.40177

24.6788, -7.30227

20.6441, 7.64329

22.594, 31.7608

8.32439, 28.3988

28.9512, 4.40561

GENE X2

Condition 1, Condition 2

-4.09772, 23.1252

11.1732, 47.4941

10.6099, -28.9577

4.93276, 3.52512

5.25047, 2.3138

0.31125, 28.985

10.3246, 12.098

-3.2595, 26.7192

0.577618, 28.6548

-1.91593, 5.69249

GENE X3

Condition 1, Condition 2

16.5652, 43.0955

24.9772, 34.3804

12.36, -1.04107

24.4037, 50.6457

4.0992, 23.4318

26.8443, 27.8888

26.1279, 19.3589

5.42735, 52.4745

15.7968, -1.05231

12.3357, 31.4406

GENE X4

Condition 1, Condition 2

34.3808, 144.68

35.0064, 143.066

21.6288, 150.708

26.7525, 150.059

34.6463, 151.874

17.7268, 166.38

9.6263, 147.94

21.0469, 155.174

30.7572, 155.114

27.8445, 166.587

GENE X5

Condition 1, Condition 2

25.4593, 15.9434

28.0158, -9.41959

37.7014,30.1737  
58.4987,0.527817  
42.8598,10.0542  
59.4094,28.1689  
42.383,-6.52434  
23.1649,29.4205  
55.5915,-2.38803  
17.0136,31.4584

NA17B009

GENE X1

Condition 1, Condition 2

15.0128, 189.793

-13.1199, 165.089

-5.66854, 179.429

18.0518, 185.338

-5.9181, 165.274

6.42043, 127.779

5.11483, 169.23

5.27667, 186.734

-16.6785, 206.811

17.8491, 204.092

GENE X2

Condition 1, Condition 2

76.0991, 169.856

78.6691, 203.897

114.197, 192.018

102.99, 150.185

97.0064, 167.25

95.4365, 176

77.379, 203.881

109.636, 183.572

103.861, 138.929

79.2845, 243.884

GENE X3

Condition 1, Condition 2

-21.2852, 80.3823

12.7945, 88.5489

11.2896, 55.578

13.4341, 94.5364

-17.1891, 92.8602

9.05184, 42.2604

4.82604, 97.3541

-3.03165, 94.6657

5.05475, 96.1944

2.92469, 75.6569

GENE X4

Condition 1, Condition 2

74.2432, 73.1953

60.3628, 40.7669

62.5892, 65.6959

60.5827, 85.5832

64.4389, 58.2751

49.5847, 75.0116

61.7945, 65.5082

66.1465, 58.3682

62.568, 70.2125

64.7289, 56.6422

GENE X5

Condition 1, Condition 2

25.0281, 83.539

15.1012, 68.6214

10.4991,59.7381  
5.06617,73.4355  
17.696,67.5588  
12.9194,34.5986  
10.2902,63.6128  
29.9078,55.4408  
9.35195,59.4497  
-0.647744,38.727

NA17B010

GENE X1

Condition 1, Condition 2

44.2369, 97.5626

10.7595, 101.364

28.1115, 95.4778

46.3327, 97.1583

25.4457, 86.8387

44.5209, 116.527

25.7154, 115.29

40.65, 82.5939

53.6263, 114.079

36.4639, 70.8854

GENE X2

Condition 1, Condition 2

49.5229, 133.639

38.5595, 129.625

50.6492, 132.485

63.4027, 136.011

36.6317, 163.746

35.605, 122.166

53.8872, 115.06

42.6638, 139.576

40.9158, 137.25

55.2055, 132.377

GENE X3

Condition 1, Condition 2

-0.378354, -1.59078

9.71786, 14.731

14.4658, 1.00614

31.4164, 7.66304

7.21209, 14.8963

3.55629, 1.8392

18.34, 3.29837

5.84023, 12.4159

-6.05781, 9.51572

10.3748, 10.1965

GENE X4

Condition 1, Condition 2

106.523, 15.9129

124.354, 34.6877

110.978, -2.20243

92.9526, 21.4959

118.367, -11.6996

95.4087, 0.191547

125.472, 19.9537

100.541, 42.0306

100.212, 3.44224

117.915, -7.22124

GENE X5

Condition 1, Condition 2

99.9638, 161.892

103.362, 145.401

77.9777,157.535  
91.6033,170.064  
107.041,159.384  
84.1523,175.685  
81.0583,151.099  
96.3721,141.133  
86.5475,160.134  
101.835,139.675

NA17B012

GENE X1

Condition 1, Condition 2

79.6872, 165.273

76.8346, 152.625

81.6315, 141.635

90.7534, 155.437

79.3126, 166.631

103.309, 142.088

81.6192, 129.265

81.8374, 158.284

85.0101, 146.776

69.3523, 143.521

GENE X2

Condition 1, Condition 2

43.1044, 148.158

58.5502, 184.059

44.9867, 176.876

30.5587, 183.59

51.2581, 196.451

70.4271, 199.374

60.5082, 190.461

68.7624, 179.189

54.2527, 186.936

36.9013, 189.638

GENE X3

Condition 1, Condition 2

23.539, 123.479

22.7809, 158.195

22.7977, 169.194

26.714, 129.222

21.1577, 141.791

20.0883, 163.455

15.4047, 172.418

24.9794, 160.208

16.049, 172.374

17.032, 122.203

GENE X4

Condition 1, Condition 2

5.57865, 57.48

-4.3907, 73.0813

2.83009, 54.7549

6.30326, 55.0294

4.96813, 38.7335

2.41154, 79.6793

10.0005, 102.875

17.436, 77.6803

10.4308, 104.024

0.696562, 74.1081

GENE X5

Condition 1, Condition 2

27.5859, 114.068

25.6278, 56.5387

22.3981,126.56  
24.2701,103.861  
31.0653,69.0358  
27.106,73.6167  
33.3332,90.1162  
19.0915,50.2892  
28.3832,81.4012  
29.9436,122.379

NA17B013  
GENE X1  
Condition 1, Condition 2  
-3.49425, 148.563  
8.33015, 180.773  
-27.9221, 159.484  
21.9249, 166.474  
-3.51963, 184.553  
6.65865, 158.724  
1.67514, 147.246  
-1.67774, 148.643  
26.0628, 168.721  
0.601409, 173.008  
GENE X2  
Condition 1, Condition 2  
25.5916, 145.95  
52.0437, 147  
40.1962, 134.126  
35.8092, 159.781  
43.1865, 151.028  
45.6719, 148.6  
39.4683, 135.566  
32.51, 151.726  
20.1353, 152.934  
42.5174, 132.47  
GENE X3  
Condition 1, Condition 2  
35.5093, 63.8592  
43.9157, 5.12069  
63.8743, 41.7949  
56.3242, 61.672  
32.9571, 11.7735  
32.3697, 34.1067  
19.6017, 11.2086  
35.1183, 48.6993  
42.5878, 33.4445  
58.7581, 58.5651  
GENE X4  
Condition 1, Condition 2  
7.0935, 178.41  
9.15851, 210.519  
42.255, 182.307  
6.5842, 201.797  
20.7927, 176.753  
28.0295, 191.412  
9.85626, 203.747  
4.85388, 199.164  
17.4235, 183.528  
3.56376, 202.784  
GENE X5  
Condition 1, Condition 2  
25.5018, 121.218  
21.4937, 131.938

38.561,84.2488  
36.3198,74.7439  
42.4267,86.8683  
22.7726,110.518  
35.8439,67.9965  
23.2696,119.706  
45.4471,87.1942  
47.8603,116.545

NA17B015  
GENE X1  
Condition 1, Condition 2  
34.3134, 187.399  
33.3561, 202.787  
33.046, 177.22  
43.0975, 189.2  
28.6999, 145.609  
37.8911, 221.151  
33.6977, 163.029  
31.5453, 177.411  
34.4372, 178.532  
31.6023, 174.834  
GENE X2  
Condition 1, Condition 2  
4.52412, 72.8661  
-9.52432, 79.908  
-19.5819, 80.9665  
16.9675, 82.076  
-10.802, 87.5614  
-2.56522, 69.635  
-13.2688, 88.5027  
9.10953, 73.7398  
-10.625, 81.2417  
-10.4244, 89.6412  
GENE X3  
Condition 1, Condition 2  
-5.86384, 156.074  
11.0858, 145.553  
-14.3852, 132.733  
10.817, 149.615  
7.10267, 170.327  
-9.28434, 118.527  
17.9029, 135.009  
-12.4233, 152.924  
19.8753, 158.538  
-7.28077, 119.023  
GENE X4  
Condition 1, Condition 2  
13.7224, 86.3221  
18.093, 71.7258  
11.7686, 67.6914  
26.8944, 59.9901  
31.0581, 79.5733  
37.0592, 77.5071  
33.0462, 62.4417  
2.13725, 92.5747  
39.9234, 47.5239  
33.4748, 67.1952  
GENE X5  
Condition 1, Condition 2  
31.7502, 120.114  
35.5146, 104.146

13.7105,97.5221  
23.8504,72.3703  
60.5085,91.9811  
6.27416,87.9587  
18.4448,100.459  
22.354,104.618  
17.2769,94.4608  
36.2914,115.809

NA17B019

GENE X1

Condition 1, Condition 2

43.1773, 77.6037

35.7816, 149.248

42.4165, 127.106

35.2529, 116.225

56.1464, 133.86

13.7546, 120.857

30.127, 107.559

23.2206, 170.991

26.2438, 126.432

23.8818, 153.385

GENE X2

Condition 1, Condition 2

86.1515, 45.2342

72.1999, 33.7105

61.1705, 38.8288

85.105, 52.396

98.8764, 89.061

88.3988, 41.1126

95.9907, 44.8815

79.7823, 78.644

86.1358, 68.4141

106.591, 86.8935

GENE X3

Condition 1, Condition 2

26.5482, 105.821

5.00585, 108.67

9.58727, 102.199

-8.60568, 113.64

15.6584, 101.522

-6.1564, 102.568

14.3355, 99.2726

1.60238, 103.01

-8.84109, 91.0352

-2.56285, 102.539

GENE X4

Condition 1, Condition 2

47.4169, 72.0177

41.1392, 166.258

47.8574, 107.86

41.8289, 111.156

44.7581, 135.492

42.9644, 132.222

50.7541, 86.8951

30.6693, 104.081

39.1162, 93.0521

54.421, 139.521

GENE X5

Condition 1, Condition 2

14.0728, 231.129

9.33093, 193.938

0.349517,163.932  
5.19856,186.291  
0.831899,211.302  
2.13825,200.724  
22.8996,192.299  
-2.19956,199.956  
8.20762,181.999  
6.752,188.766

NA17B025

GENE X1

Condition 1, Condition 2

20.9355, 22.4453

20.5318, -15.7362

31.3227, 13.7868

31.5226, 15.162

19.7196, 6.99042

40.615, -2.90974

35.92, 6.44557

37.6105, 9.20772

39.3412, 24.6509

19.7474, 26.6852

GENE X2

Condition 1, Condition 2

54.9765, 202.741

70.782, 204.764

49.3145, 198.828

48.5318, 211.193

55.7176, 174.451

26.3944, 192.788

40.6524, 184.847

44.5328, 199.336

41.4218, 183.692

65.718, 180.953

GENE X3

Condition 1, Condition 2

69.6811, 119.731

71.8726, 122.99

74.4662, 104.764

73.7676, 135.738

81.3334, 89.2506

70.5215, 132.504

74.3016, 153.037

69.1008, 127.847

71.5027, 119.431

83.5155, 124.648

GENE X4

Condition 1, Condition 2

64.2609, 28.3952

38.9906, 13.6259

34.2824, 30.7222

35.104, -3.15205

25.607, -23.5656

26.9282, -32.837

53.8602, 31.6942

50.0348, 31.5325

38.0627, 27.1174

40.0765, -25.658

GENE X5

Condition 1, Condition 2

-13.4522, 151.498

-26.7055, 167.375

15.9576,150.06  
0.580401,145.662  
6.74906,165.929  
11.6136,145.592  
-3.25393,158.31  
16.8664,163.337  
-5.41407,148.536  
8.84253,155.855

NA17B028

GENE X1

Condition 1, Condition 2

42.3561, 118.156

43.3008, 118.868

41.3331, 154.167

39.1698, 172.844

41.8122, 156.186

46.2897, 126.254

42.4348, 146.812

44.5452, 155.141

44.8729, 148.945

43.7281, 154.984

GENE X2

Condition 1, Condition 2

23.6627, 47.4582

34.5198, 33.6886

35.8878, 44.2806

27.8711, 15.1884

28.0968, 40.9661

27.9432, 22.0388

23.4253, 34.0916

30.1421, 5.11854

33.5094, 46.6411

30.9002, 45.9586

GENE X3

Condition 1, Condition 2

58.9609, 78.781

46.16, 87.6824

32.3035, 76.2413

20.3425, 84.5829

39.8054, 71.9975

37.786, 65.8586

74.9818, 59.8059

76.6011, 45.1744

56.9419, 74.2526

33.5804, 67.4142

GENE X4

Condition 1, Condition 2

68.7167, 95.8121

60.0489, 63.7115

55.2261, 64.157

36.1596, 71.8546

55.8564, 67.2694

74.7073, 66.6057

86.6419, 71.5351

59.1654, 65.435

60.7722, 72.2441

59.5553, 60.3846

GENE X5

Condition 1, Condition 2

91.4551, 4.53628

93.3621, -8.60945

58.4147,28.2832  
84.7792,41.5477  
114.76,25.7935  
103.175,11.3534  
98.1153,42.7  
105.109,19.5962  
96.5914,33.4598  
96.7501,20.9134

NA17B031  
GENE X1  
Condition 1, Condition 2  
55.4951, 142.586  
59.6226, 132.408  
51.4197, 132.167  
61.78, 139.484  
47.0441, 167.853  
58.0497, 148.075  
57.9081, 119.499  
58.6998, 147.949  
51.872, 160.21  
60.4123, 143.028  
GENE X2  
Condition 1, Condition 2  
44.8259, 68.3473  
25.5125, 57.4882  
32.4984, 81.8933  
29.7883, 72.9356  
45.1631, 73.4658  
16.3399, 76.4166  
31.4323, 64.0651  
23.1473, 78.7905  
24.8678, 72.552  
35.5512, 63.4068  
GENE X3  
Condition 1, Condition 2  
54.9269, 55.7575  
50.3412, 62.8825  
52.0182, 40.062  
63.6178, 37.7129  
61.2102, 75.9498  
42.5837, 30.7132  
59.6385, 57.3742  
47.8335, 50.422  
42.0307, 45.4775  
64.9835, 67.1226  
GENE X4  
Condition 1, Condition 2  
15.5785, 22.6717  
10.9528, 45.2096  
16.4893, 18.8665  
20.0305, -6.88851  
23.0834, 22.5802  
17.956, 24.5024  
21.991, 48.8406  
3.06365, 22.8638  
7.43307, 37.6539  
17.0904, -1.69387  
GENE X5  
Condition 1, Condition 2  
72.6803, 106.476  
59.8476, 76.818

52.0275,73.0575  
65.3771,71.0326  
76.1273,92.9251  
68.1956,103.203  
68.3138,41.5467  
59.2664,116.698  
68.2581,118.854  
72.0392,70.655

NA17B033

GENE X1

Condition 1, Condition 2

96.3497, 99.985

83.8113, 119.726

102.648, 118.338

93.0633, 94.4086

98.8136, 129.149

90.379, 93.0406

88.5685, 83.3213

104.398, 120.382

101.169, 146.113

104.248, 89.4822

GENE X2

Condition 1, Condition 2

38.9465, 195.446

37.0177, 190.44

54.2547, 200.925

56.0591, 223.688

29.5864, 192.825

62.7431, 199.336

55.5121, 205.892

56.154, 199.701

62.0654, 204.929

44.0881, 190.817

GENE X3

Condition 1, Condition 2

87.7794, 52.1312

61.708, 42.5887

56.2766, 42.0796

54.0438, 42.1953

80.2153, 60.547

57.6976, 50.0251

48.0715, 34.0475

107.765, 68.9408

68.8333, 50.9688

80.5864, 50.0464

GENE X4

Condition 1, Condition 2

70.582, 189.929

68.5615, 170.19

70.5192, 187.73

70.7281, 181.783

65.7808, 179.508

67.6064, 175.376

65.236, 180.85

69.4775, 205.726

69.3921, 181.273

66.2439, 177.098

GENE X5

Condition 1, Condition 2

46.9555, 10.3875

39.8702, 11.176

51.5953,-33.3276  
60.5197,4.49827  
38.2518,15.0479  
54.673,49.1414  
53.3375,-6.09815  
44.1234,8.04525  
51.9638,4.6723  
49.312,30.3924

NA17B036

GENE X1

Condition 1, Condition 2

77.4374, 126.951

78.4936, 95.6347

84.5565, 126.679

78.2226, 122.773

78.0056, 166.054

78.1894, 127.379

82.1155, 92.354

81.3646, 165.893

78.8422, 134.395

76.2573, 131.954

GENE X2

Condition 1, Condition 2

47.2633, 142.661

32.3308, 156.682

38.4341, 134.962

30.1857, 137.964

44.7264, 129.691

35.5134, 132.983

55.5221, 108.049

58.957, 130.154

48.7317, 110.066

32.5916, 116.806

GENE X3

Condition 1, Condition 2

42.566, 33.2063

71.9918, 37.158

54.7399, 6.66404

62.8863, 9.3079

50.8807, 36.3753

74.4434, 2.30142

59.5516, 29.9712

49.7265, 30.714

36.5174, 32.9631

40.4173, 25.5162

GENE X4

Condition 1, Condition 2

22.5906, 91.4996

13.468, 104.232

23.3205, 107.428

20.2111, 105.933

32.5515, 129.347

27.0165, 92.422

29.5674, 129.345

30.3359, 122.585

25.7747, 115.253

25.0835, 103.813

GENE X5

Condition 1, Condition 2

65.905, 14.6968

78.5642, 8.56577

73.2865,7.63071  
75.0453,-18.0376  
92.1991,32.9723  
83.813,11.1742  
60.5803,30.6696  
39.2052,5.83294  
63.8191,15.1547  
68.1557,20.9664

NA17B115  
GENE X1  
Condition 1, Condition 2  
45.4203, 194.798  
47.5494, 166.198  
48.4724, 199.842  
40.0947, 190.689  
40.2532, 204.209  
45.3694, 213.405  
45.8928, 212.01  
46.399, 194.311  
40.063, 200.774  
46.3068, 180.505  
GENE X2  
Condition 1, Condition 2  
43.1514, 99.6178  
7.40969, 119.69  
25.2954, 98.7803  
28.7717, 104.565  
30.5568, 98.5358  
21.9971, 102.334  
43.8665, 106.07  
24.2876, 96.2044  
23.928, 100.245  
10.9559, 106.375  
GENE X3  
Condition 1, Condition 2  
17.6241, 128.77  
19.0565, 124.706  
18.6862, 130.509  
24.6921, 128.368  
18.3747, 153.606  
16.3433, 141.168  
37.6495, 113.155  
32.2141, 127.902  
9.52433, 120.374  
25.3832, 117.264  
GENE X4  
Condition 1, Condition 2  
43.8579, 17.2973  
61.535, 66.5836  
64.8919, 24.1162  
48.0651, 6.43979  
58.8397, 26.1268  
78.3981, 41.6129  
54.1936, 53.6524  
59.2883, 24.1636  
74.743, 48.2716  
64.3402, 63.7704  
GENE X5  
Condition 1, Condition 2  
44.9009, 117.086  
19.8391, 109.017

28.2997,84.5544  
25.4642,121.522  
24.3545,110.313  
14.2033,109.471  
45.1654,93.0635  
27.0678,102.079  
11.7334,78.7557  
40.6049,100.519

MM17B018  
GENE X1  
Condition 1,Condition 2  
-6.86953,163.62  
7.15181,161.938  
3.54209,149.294  
-11.0993,161.329  
15.8533,157.175  
-10.6869,160.365  
7.605,170.405  
-1.54159,161.752  
11.4822,154.055  
0.631005,160.058  
GENE X2  
Condition 1,Condition 2  
15.82,21.0342  
18.5625,15.7057  
32.4262,29.3154  
19.841,26.6678  
18.7819,18.7539  
11.0984,17.4983  
-3.79391,2.73502  
29.3554,24.9589  
1.31452,34.9834  
34.0766,21.2662  
GENE X3  
Condition 1,Condition 2  
59.4817,140.92  
72.7852,148.898  
58.0939,151.73  
61.3463,165.999  
46.9666,138.152  
64.1073,128.332  
46.3496,149.056  
48.7012,154.112  
68.5,134.094  
57.663,148.245  
GENE X4  
Condition 1,Condition 2  
47.7144,121.94  
63.3952,107.921  
62.543,107.626  
53.1877,113.414  
60.1165,111.89  
82.1423,74.0073  
33.1621,126.553  
33.0243,108.414  
79.532,102.606  
62.8517,106.126  
GENE X5

**Condition 1,Condition 2**

**75.2515,167.232**

**94.915,139.986**

**76.8213,134.169**

**83.9272,159.041**

**76.562,156.937**

**92.0252,153.491**

**71.8445,144.721**

**89.803,147.643**

**67.4044,137.34**

**79.6409,152.245**