RuleFit3 rules for GENOME/2011/134767

GM12878

The rules learned on cell line GM12878.

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RuleFit rules in order of importance


Rule   1:    2  variables
support =  0.4572      coeff = -0.4175      importance =   100.0
GM12878 PolyA+ Cytosol Rep1:  range = -0.9900E+36   1.414
GM12878 PolyA+ Whole Cell Rep1:  range = -0.9900E+36   2.226


Rule   2:    1  variables
support =  0.5265      coeff =  0.3604      importance =   86.52
GM12878 PolyA- Cytosol Rep1:  range =  0.5171E-01   7.420


Rule   3:    2  variables
support =  0.2466      coeff = -0.3858      importance =   79.95
GM12878 PolyA+ Cytosol Rep1:  range = -0.9900E+36   0.1777E-02
GM12878 PolyA- Cytosol Rep1:  range = -0.9900E+36   0.6031E-01


Rule   4:    2  variables
support =  0.4682      coeff = -0.3085      importance =   74.00
GM12878 PolyA+ Nucleus Rep1:  range = -0.9900E+36   2.512
GM12878 PolyA+ Whole Cell Rep1:  range = -0.9900E+36   1.519


Rule   5:    2  variables
support =  0.2604      coeff =  0.2564      importance =   54.10
GM12878 PolyA- Cytosol Rep1:  range =  0.5648E-01   0.9900E+36
GM12878 PolyA+ Whole Cell Rep1:  range =   7.615      0.9900E+36


Rule   6:    2  variables
support =  0.5248      coeff = -0.2247      importance =   53.95
GM12878 PolyA+ Nucleus Rep1:  range = -0.9900E+36   3.692
GM12878 PolyA+ Whole Cell Rep1:  range = -0.9900E+36   3.270


Rule   7:    2  variables
support =  0.4958      coeff =  0.2008      importance =   48.27
GM12878 PolyA+ Cytosol Rep1:  range =   1.894      0.9900E+36
GM12878 PolyA- Whole Cell Rep1:  range = -0.9900E+36   62.07
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Rule    8:    1  variables
support =  0.4759      coeff = -0.1473      importance =    35.37
GM12878 PolyA+ Nucleus Rep1:  range = -0.9900E+36    1.078


Rule    9:    1  variables
support =  0.2544      coeff = -0.1545      importance =    32.35
GM12878 PolyA+ Cytosol Rep1:  range = -0.9900E+36  0.2567E-02


Rule   10:    2  variables
support =  0.2711      coeff =  0.1464      importance =    31.29
GM12878 PolyA+ Cytosol Rep1:  range =   7.855        0.9900E+36
GM12878 PolyA- Nucleus Rep1:  range = -0.9900E+36   17.41


Rule   11:    2  variables
support =  0.1967      coeff =  0.1599      importance =    30.57
GM12878 PolyA- Nucleus Rep1:  range = -0.9900E+36    4.746
GM12878 PolyA- Whole Cell Rep1:  range =    3.384        0.9900E+36


Rule   12:    2  variables
support =  0.2335      coeff =  0.1334      importance =    27.14
GM12878 PolyA+ Cytosol Rep1:  range =  0.2572E-02   14.13
GM12878 PolyA- Nucleus Rep1:  range = -0.9900E+36  0.2977


Rule   13:    2  variables
support =  0.7749E-01  coeff =  0.2031      importance =    26.11
GM12878 PolyA- Cytosol Rep1:  range =  0.6047E-01  0.9900E+36
GM12878 PolyA- Whole Cell Rep1:  range =  0.8399        1.569


Rule   14:    2  variables
support =  0.4250      coeff =  0.1074      importance =    25.51
GM12878 PolyA- Cytosol Rep1:  range =  0.9959E-01  0.9900E+36
GM12878 PolyA- Whole Cell Rep1:  range =    1.054        0.9900E+36


Rule   15:    1  variables
support =  0.5478      coeff = -0.1065      importance =    25.49
GM12878 PolyA- Cytosol Rep1:  range = -0.9900E+36  0.1017


Rule   16:    2  variables
support =  0.1805      coeff =  0.1375      importance =    25.42
GM12878 PolyA+ Cytosol Rep1:  range =  0.4503E-01  0.9900E+36
GM12878 PolyA- Nucleus Rep1:  range =  0.1738E-01  0.4517


Rule   17:    2  variables
support =  0.4689      coeff =  0.8915E-01  importance =    21.39
GM12878 PolyA- Cytosol Rep1:  range =  0.8340E-01  0.9900E+36
GM12878 PolyA+ Whole Cell Rep1:  range =  0.6053        0.9900E+36


Rule   18:    1  variables
support =  0.7806      coeff = -0.1074      importance =    21.36
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GM12878 PolyA+ Whole Cell Rep1:  range = -0.9900E+36   9.827


Rule  19:    5  variables
support =  0.1660     coeff = -0.1050     importance =   18.78
GM12878 PolyA+ Cytosol Rep1:  range = -0.9900E+36  0.5285E-03
GM12878 PolyA- Cytosol Rep1:  range = -0.9900E+36  0.3002E-02
GM12878 PolyA- Nucleus Rep1:  range = -0.9900E+36  0.7770E-03
GM12878 PolyA+ Whole Cell Rep1:  range = -0.9900E+36  0.8625E-03
GM12878 PolyA- Whole Cell Rep1:  range = -0.9900E+36  0.7150E-03


Rule  20:    2  variables
support =  0.1256     coeff = -0.1157     importance =   18.43
GM12878 PolyA+ Cytosol Rep1:  range =   4.943       16.20
GM12878 PolyA+ Whole Cell Rep1:  range = -0.9900E+36   9.723


Rule  21:    1  variables
support =  0.3273     coeff = -0.7678E-01  importance =   17.32
GM12878 PolyA- Cytosol Rep1:  range = -0.9900E+36  0.5850E-03


Rule  22:    1  variables
support =  0.2541     coeff =  0.7217E-01  importance =   15.11
GM12878 PolyA- Cytosol Rep1:  range =  0.2908       0.9900E+36


Rule  23:    3  variables
support =  0.7997E-01 coeff =  0.1148     importance =   14.97
GM12878 PolyA+ Nucleus Rep1:  range =   2.193       0.9900E+36
GM12878 PolyA+ Whole Cell Rep1:  range = -0.9900E+36   5.130
GM12878 PolyA- Whole Cell Rep1:  range =   1.887       0.9900E+36


Rule  24:    1  variables
support =  0.5414E-01 coeff = -0.1363     importance =   14.82
GM12878 PolyA+ Nucleus Rep1:  range =  0.5228       1.073


Rule  25:    1  variables
support =  0.1104     coeff =  0.9415E-01  importance =   14.19
GM12878 PolyA- Whole Cell Rep1:  range =  0.7943       1.705


Rule  26:    1  variables
support =  0.1539     coeff =  0.7883E-01  importance =   13.68
GM12878 PolyA+ Whole Cell Rep1:  range =   14.46       0.9900E+36


Rule  27:    2  variables
support =  0.4490     coeff =  0.5300E-01  importance =   12.67
GM12878 PolyA- Cytosol Rep1:  range =  0.7193E-01  0.9900E+36
GM12878 PolyA+ Nucleus Rep1:  range =   1.421       0.9900E+36


Rule  28:    1  variables
support =  0.1359     coeff =  0.7628E-01  importance =   12.57
GM12878 PolyA- Cytosol Rep1:  range =  0.5836       15.54
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Rule  29:     2  variables
support =  0.1479      coeff =  0.7346E-01  importance =    12.54
GM12878 PolyA+ Cytosol Rep1:  range =    15.91       0.9900E+36
GM12878 PolyA+ Nucleus Rep1:  range =    2.885        65.99


Rule  30:    linear GM12878 PolyA+ Whole Cell Rep1
std =   15.22      coeff =  0.1706E-02       impotance =    12.49


Rule  31:     1  variables
support =  0.2463      coeff = -0.5267E-01  importance =    10.91
GM12878 PolyA- Nucleus Rep1:  range = -0.9900E+36  0.1439E-02


Rule  32:     1  variables
support =  0.5425      coeff = -0.3093E-01  importance =    7.409
GM12878 PolyA- Cytosol Rep1:  range = -0.9900E+36  0.9828E-01


Rule  33:     2  variables
support =  0.3447      coeff =  0.3158E-01  importance =    7.215
GM12878 PolyA+ Cytosol Rep1:  range =    5.183       0.9900E+36
GM12878 PolyA- Cytosol Rep1:  range =  0.9280E-01   0.9900E+36


Rule  34:     2  variables
support =  0.4667      coeff =  0.2563E-01  importance =    6.148
GM12878 PolyA- Cytosol Rep1:  range =  0.8559E-01   0.9900E+36
GM12878 PolyA+ Whole Cell Rep1:  range =  0.5758       0.9900E+36


Rule  35:     3  variables
support =  0.6122E-01  coeff =  0.4540E-01  importance =    5.233
GM12878 PolyA+ Cytosol Rep1:  range =    2.254        5.316
GM12878 PolyA- Nucleus Rep1:  range = -0.9900E+36    1.830
GM12878 PolyA+ Whole Cell Rep1:  range =  0.7034        4.968


Rule  36:     1  variables
support =  0.6727      coeff =  0.2113E-01  importance =    4.768
GM12878 PolyA- Cytosol Rep1:  range =  0.7055E-03  0.9900E+36


Rule  37:     2  variables
support =  0.4459E-01  coeff = -0.4430E-01  importance =    4.396
GM12878 PolyA+ Nucleus Rep1:  range =  0.5230        1.088
GM12878 PolyA+ Whole Cell Rep1:  range = -0.9900E+36   4.466


Rule  38:     2  variables
support =  0.5662      coeff = -0.1679E-01  importance =    4.001
GM12878 PolyA+ Cytosol Rep1:  range = -0.9900E+36   7.353
GM12878 PolyA+ Whole Cell Rep1:  range = -0.9900E+36   3.434


Rule  39:     2  variables
support =  0.1525      coeff = -0.2135E-01  importance =    3.690
GM12878 PolyA+ Cytosol Rep1:  range = -0.9900E+36   11.27
GM12878 PolyA+ Nucleus Rep1:  range =    3.379       0.9900E+36
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Rule  40:    2  variables
support =  0.5520E-01  coeff =  0.3123E-01  importance =    3.428
GM12878 PolyA- Cytosol Rep1:  range = -0.9900E+36   0.1810
GM12878 PolyA- Whole Cell Rep1:  range =  0.9312        1.515


Rule  41:    2  variables
support =  0.1610     coeff =  0.1836E-01  importance =    3.244
GM12878 PolyA+ Cytosol Rep1:  range =  0.2572E-02   14.13
GM12878 PolyA- Nucleus Rep1:  range = -0.9900E+36   0.1249


Rule  42:    1  variables
support =  0.6939     coeff = -0.1118E-01  importance =    2.478
GM12878 PolyA- Whole Cell Rep1:  range = -0.9900E+36   2.731


Rule  43:    2  variables
support =  0.2420     coeff =  0.1089E-01  importance =    2.243
GM12878 PolyA- Cytosol Rep1:  range =  0.5648E-01  0.9900E+36
GM12878 PolyA+ Whole Cell Rep1:  range =   7.615        98.07


Rule  44:    1  variables
support =  0.2679     coeff = -0.1035E-01  importance =    2.204
GM12878 PolyA+ Cytosol Rep1:  range = -0.9900E+36   0.5157E-02


Rule  45:    1  variables
support =  0.6440E-01  coeff =  0.1655E-01  importance =    1.954
GM12878 PolyA+ Cytosol Rep1:  range =   7.350        10.37


Rule  46:    1  variables
support =  0.7856E-01  coeff = -0.1408E-01  importance =    1.821
GM12878 PolyA- Whole Cell Rep1:  range =  0.6297E-01  0.3807


Rule  47:    1  variables
support =  0.5591E-01  coeff =  0.1639E-01  importance =    1.811
GM12878 PolyA+ Nucleus Rep1:  range =  0.1689        0.6473


Rule  48:    3  variables
support =  0.1953     coeff =  0.8922E-02  importance =    1.701
GM12878 PolyA- Cytosol Rep1:  range =  0.1310        0.9900E+36
GM12878 PolyA+ Nucleus Rep1:  range =   3.113        19.99
GM12878 PolyA- Whole Cell Rep1:  range = -0.9900E+36   10.06


Rule  49:    2  variables
support =  0.1210     coeff =  0.1076E-01  importance =    1.687
GM12878 PolyA+ Cytosol Rep1:  range =  0.2572E-02   14.13
GM12878 PolyA- Nucleus Rep1:  range = -0.9900E+36   0.5204E-01


Rule  50:    2  variables
support =  0.2190     coeff = -0.8142E-02  importance =    1.619
GM12878 PolyA+ Cytosol Rep1:  range =   2.512        0.9900E+36
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GM12878 PolyA- Cytosol Rep1: range = -0.9900E+36   0.2846

Rule 51:   2 variables
support = 0.1840E-01 coeff = -0.2431E-01 importance =   1.571
GM12878 PolyA- Cytosol Rep1: range = 0.1479   0.3850
GM12878 PolyA+ Whole Cell Rep1: range =   5.440   6.898

Rule 52:   1 variables
support = 0.4636E-01 coeff = -0.1456E-01 importance =   1.472
GM12878 PolyA- Whole Cell Rep1: range =   2.116   2.731

Rule 53:   2 variables
support = 0.9590E-01 coeff = -0.9638E-02 importance =   1.364
GM12878 PolyA+ Nucleus Rep1: range = 0.7542   2.381
GM12878 PolyA+ Whole Cell Rep1: range = -0.9900E+36   5.897

Rule 54:   1 variables
support = 0.6727   coeff = 0.5855E-02 importance =   1.321
GM12878 PolyA- Cytosol Rep1: range = 0.5850E-03 0.9900E+36

Rule 55:   2 variables
support = 0.2611   coeff = -0.5969E-02 importance =   1.261
GM12878 PolyA- Cytosol Rep1: range = -0.9900E+36 0.6284E-01
GM12878 PolyA- Whole Cell Rep1: range = -0.9900E+36 0.7795E-03

Rule 56:   1 variables
support = 0.1033   coeff = 0.8211E-02 importance =   1.202
GM12878 PolyA+ Cytosol Rep1: range =   24.72   0.9900E+36

Rule 57:   2 variables
support = 0.4459E-01 coeff = -0.1210E-01 importance =   1.201
GM12878 PolyA+ Nucleus Rep1: range = -0.9900E+36   0.1476
GM12878 PolyA- Whole Cell Rep1: range = 0.2909E-01   3.384

Rule 58:   1 variables
support = 0.3539E-01 coeff = -0.1240E-01 importance =   1.101
GM12878 PolyA- Whole Cell Rep1: range =   1.515   1.885

Rule 59:   2 variables
support = 0.2208   coeff = -0.5369E-02 importance =   1.071
GM12878 PolyA+ Cytosol Rep1: range = -0.9900E+36   15.91
GM12878 PolyA+ Nucleus Rep1: range =   2.885   65.99

Rule 60:   2 variables
support = 0.8776E-01 coeff = -0.7544E-02 importance =   1.026
GM12878 PolyA+ Cytosol Rep1: range = -0.9900E+36   0.8626
GM12878 PolyA+ Whole Cell Rep1: range = 0.5346E-01   2.226

Rule 61:   2 variables
support = 0.2353   coeff = 0.5004E-02 importance =   1.021

GM12878 PolyA- Cytosol Rep1: range =   0.9959E-01   0.9900E+36
GM12878 PolyA- Whole Cell Rep1: range =   1.054   5.165

Rule 62:   1 variables
support = 0.7010   coeff = -0.4209E-02 importance = 0.9264
GM12878 PolyA+ Whole Cell Rep1: range = -0.9900E+36   6.463

Rule 63:   2 variables
support = 0.2891   coeff = -0.4126E-02 importance = 0.8992
GM12878 PolyA- Cytosol Rep1: range = -0.9900E+36   0.1017
GM12878 PolyA- Nucleus Rep1: range =   0.2844E-02 0.9900E+36

Rule 64:   1 variables
support = 0.2268   coeff = -0.4281E-02 importance = 0.8618
GM12878 PolyA- Whole Cell Rep1: range =   1.515   5.444

Rule 65:   2 variables
support = 0.1185   coeff = 0.5529E-02 importance = 0.8592
GM12878 PolyA- Cytosol Rep1: range = -0.9900E+36   0.2786
GM12878 PolyA+ Nucleus Rep1: range =   1.958   5.520

Rule 66:   1 variables
support = 0.2665   coeff = -0.3948E-02 importance = 0.8392
GM12878 PolyA+ Cytosol Rep1: range = -0.9900E+36   0.4700E-02

Rule 67:   1 variables
support = 0.7123   coeff = -0.3818E-02 importance = 0.8310
GM12878 PolyA+ Whole Cell Rep1: range = -0.9900E+36   6.774

Rule 68:   1 variables
support = 0.3273   coeff = -0.3246E-02 importance = 0.7323
GM12878 PolyA- Cytosol Rep1: range = -0.9900E+36   0.5850E-03

Rule 69:   1 variables
support = 0.3273   coeff = -0.3181E-02 importance = 0.7176
GM12878 PolyA- Cytosol Rep1: range = -0.9900E+36   0.7055E-03

Rule 70:   1 variables
support = 0.3273   coeff = -0.3154E-02 importance = 0.7116
GM12878 PolyA- Cytosol Rep1: range = -0.9900E+36   0.5720E-03

Rule 71:   3 variables
support = 0.4282E-01 coeff = 0.6817E-02 importance = 0.6635
GM12878 PolyA+ Cytosol Rep1: range = -0.9900E+36   4.082
GM12878 PolyA- Cytosol Rep1: range =   0.5096E-01 0.9900E+36
GM12878 PolyA- Whole Cell Rep1: range = -0.9900E+36   0.7943

Rule 72:   2 variables
support = 0.3680E-01 coeff = 0.7304E-02 importance = 0.6611
GM12878 PolyA+ Cytosol Rep1: range =   1.839   0.9900E+36

GM12878 PolyA+ Whole Cell Rep1: range = -0.9900E+36   1.306

Rule 73:   1 variables
support = 0.3715E-01 coeff = -0.7133E-02 importance = 0.6486
GM12878 PolyA+ Whole Cell Rep1: range =   5.087   6.381

Rule 74:   linear GM12878 PolyA- Whole Cell Rep1
std =   6.190   coeff = 0.2148E-03   impotance = 0.6392

Rule 75:   2 variables
support = 0.4972   coeff = 0.2599E-02 importance = 0.6246
GM12878 PolyA- Cytosol Rep1: range = 0.6637E-01 0.9900E+36
GM12878 PolyA- Nucleus Rep1: range = 0.1670   0.9900E+36

Rule 76:   1 variables
support = 0.1929   coeff = -0.3151E-02 importance = 0.5978
GM12878 PolyA- Whole Cell Rep1: range =   1.204   3.651

Rule 77:   2 variables
support = 0.1897   coeff = 0.2897E-02 importance = 0.5460
GM12878 PolyA- Cytosol Rep1: range = 0.9139E-01 0.5294
GM12878 PolyA- Nucleus Rep1: range = 0.6824   4.775

Rule 78:   1 variables
support = 0.1104   coeff = 0.2809E-02 importance = 0.4232
GM12878 PolyA+ Cytosol Rep1: range =   23.28   0.9900E+36

Rule 79:   1 variables
support = 0.3160   coeff = -0.1106E-02 importance = 0.2473
GM12878 PolyA+ Cytosol Rep1: range = -0.9900E+36 0.2283E-01

Rule 80:   1 variables
support = 0.9342E-01 coeff = 0.1583E-02 importance = 0.2215
GM12878 PolyA- Whole Cell Rep1: range = 0.1325E-02 0.5908E-01

Rule 81:   1 variables
support = 0.1380E-01 coeff = 0.3542E-02 importance = 0.1986
GM12878 PolyA- Nucleus Rep1: range = 0.1439E-02 0.2771E-02

Rule 82:   1 variables
support = 0.2795E-01 coeff = 0.1951E-02 importance = 0.1547
GM12878 PolyA+ Whole Cell Rep1: range = 0.8625E-03 0.6060E-02

Rule 83:   2 variables
support = 0.2983   coeff = 0.6333E-03 importance = 0.1393
GM12878 PolyA- Cytosol Rep1: range = 0.9139E-01 0.5294
GM12878 PolyA- Nucleus Rep1: range = -0.9900E+36   4.775

Rule 84:   1 variables
support = 0.2877   coeff = 0.1417E-03 importance = 0.3083E-01

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GM12878 PolyA+ Whole Cell Rep1:  range =    6.774        0.9900E+36


Rule  85:    1  variables
support =  0.6794E-01  coeff = -0.1987E-03  importance =  0.2404E-01
GM12878 PolyA+ Whole Cell Rep1:  range =    4.700        6.774


Rule  86:    1  variables
support =  0.5556E-01  coeff = -0.1531E-03  importance =  0.1686E-01
GM12878 PolyA- Whole Cell Rep1:  range =    1.705        2.329


Rule  87:    1  variables
support =  0.4575      coeff =  0.9197E-12  importance =  0.2203E-09
GM12878 PolyA- Cytosol Rep1:  range =  0.9828E-01  0.9900E+36


Rule  88:    1  variables
support =  0.5241      coeff =  0.7382E-12  importance =  0.1772E-09
GM12878 PolyA+ Nucleus Rep1:  range =    1.078        0.9900E+36


Rule  89:    1  variables
support =  0.2194      coeff =  0.1032E-12  importance =  0.2053E-10
GM12878 PolyA+ Whole Cell Rep1:  range =    9.827        0.9900E+36


Rule  90:    1  variables
support =  0.4522      coeff =  0.2362E-13  importance =  0.5652E-11
GM12878 PolyA- Cytosol Rep1:  range =  0.1017        0.9900E+36


Rule  91:    1  variables
support =  0.7537      coeff =  0.1205E-14  importance =  0.2496E-12
GM12878 PolyA- Nucleus Rep1:  range =  0.1439E-02  0.9900E+36


Rule  92:    1  variables
support =  0.3061      coeff =  0.7097E-15  importance =  0.1572E-12
GM12878 PolyA- Whole Cell Rep1:  range =    2.731        0.9900E+36


Rule  93:    1  variables
support =  0.7335      coeff =  0.4177E-15  importance =  0.8878E-13
GM12878 PolyA+ Cytosol Rep1:  range =  0.4700E-02  0.9900E+36


Rule  94:    1  variables
support =  0.2990      coeff =  0.1312E-15  importance =  0.2889E-13
GM12878 PolyA+ Whole Cell Rep1:  range =    6.463        0.9900E+36
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K562

The rules learned on cell line K562.

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RuleFit rules in order of importance


Rule   1:    2  variables
support =  0.5121      coeff = -0.5007      importance =    100.0
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K562 PolyA- Cytosol Rep1:   range = -0.9900E+36   0.2307
K562 Total Chromatin Rep1:   range = -0.9900E+36    2.546


Rule    2:    2  variables
support =  0.1898      coeff =  0.5723      importance =    89.69
K562 PolyA- Cytosol Rep1:   range =  0.9916        0.9900E+36
K562 PolyA- Nucleus Rep1:   range =    1.440        22.36


Rule    3:    3  variables
support =  0.2241      coeff =  0.4663      importance =    77.70
K562 PolyA+ Cytosol Rep1:   range =  0.1265        7.705
K562 PolyA- Cytosol Rep1:   range =  0.8619E-01  0.9900E+36
K562 PolyA- Nucleus Rep1:   range =  0.2296        0.9900E+36


Rule    4:    1  variables
support =  0.2373      coeff = -0.3726      importance =    63.34
K562 Total Nucleolus Rep1:   range = -0.9900E+36  0.5985E-03


Rule    5:    2  variables
support =  0.2682      coeff =  0.3556      importance =    62.96
K562 PolyA- Cytosol Rep1:   range =  0.1586        1.132
K562 Total Nucleoplasm Rep1:   range = -0.9900E+36    3.670


Rule    6:    1  variables
support =  0.3223      coeff = -0.2642      importance =    49.35
K562 PolyA- Cytosol Rep1:   range = -0.9900E+36  0.9036E-02


Rule    7:    2  variables
support =  0.4062      coeff = -0.2427      importance =    47.64
K562 PolyA- Cytosol Rep1:   range = -0.9900E+36  0.1105
K562 PolyA- Whole Cell Rep1:   range = -0.9900E+36  0.8564


Rule    8:    2  variables
support =  0.1038      coeff = -0.3074      importance =    37.46
K562 PolyA+ Nucleus Rep1:   range =    1.801        6.689
K562 Total Chromatin Rep1:   range =  0.9476        3.846


Rule    9:    1  variables
support =  0.5188E-01  coeff =  0.4057      importance =    35.95
K562 Total Nucleoplasm Rep1:   range =  0.3635E-03  0.1487E-01


Rule   10:    2  variables
support =  0.5364      coeff = -0.1737      importance =    34.60
K562 PolyA- Cytosol Rep1:   range = -0.9900E+36  0.2743
K562 PolyA- Nucleus Rep1:   range = -0.9900E+36    3.199


Rule   11:    2  variables
support =  0.4746      coeff =  0.1544      importance =    30.80
K562 PolyA- Cytosol Rep1:   range =  0.8525E-01  0.9900E+36
K562 PolyA- Nucleus Rep1:   range =  0.7717        0.9900E+36
```

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Rule  12:    2  variables
support =  0.3433     coeff =  0.1579     importance =   29.96
K562 PolyA+ Nucleus Rep1:  range =   5.586      0.9900E+36
K562 Total Chromatin Rep1:  range =  0.5967      0.9900E+36


Rule  13:   linear K562 PolyA+ Nucleus Rep1
std =   13.41     coeff =  0.5578E-02     impotance =   29.90


Rule  14:    3  variables
support =  0.2980     coeff =  0.1533     importance =   28.02
K562 PolyA+ Cytosol Rep1:  range =   3.735      0.9900E+36
K562 PolyA+ Nucleus Rep1:  range =   1.465      0.9900E+36
K562 PolyA- Whole Cell Rep1:  range =   4.632      0.9900E+36


Rule  15:    2  variables
support =  0.8609E-01 coeff = -0.2368     importance =   26.55
K562 PolyA- Cytosol Rep1:  range = -0.9900E+36  0.4985E-01
K562 Total Nucleoplasm Rep1:  range =  0.1988E-01  0.9900E+36


Rule  16:    2  variables
support =  0.2373     coeff = -0.1500     importance =   25.50
K562 PolyA- Cytosol Rep1:  range = -0.9900E+36  0.3426E-01
K562 Total Nucleoplasm Rep1:  range = -0.9900E+36  0.3040E-03


Rule  17:    2  variables
support =  0.1578     coeff = -0.1726     importance =   25.15
K562 PolyA- Cytosol Rep1:  range = -0.9900E+36  0.2360
K562 Total Nucleolus Rep1:  range =  0.9433E-01   1.103


Rule  18:    2  variables
support =  0.1600     coeff =  0.1475     importance =   21.61
K562 PolyA- Cytosol Rep1:  range =   1.397      0.9900E+36
K562 PolyA- Nucleus Rep1:  range = -0.9900E+36   23.41


Rule  19:    1  variables
support =  0.6435     coeff = -0.1082     importance =   20.71
K562 PolyA- Whole Cell Rep1:  range = -0.9900E+36   3.926


Rule  20:    1  variables
support =  0.3046     coeff =  0.1063     importance =   19.56
K562 PolyA- Cytosol Rep1:  range =  0.6214      0.9900E+36


Rule  21:    3  variables
support =  0.2296     coeff =  0.1065     importance =   17.89
K562 PolyA- Cytosol Rep1:  range =  0.7621      0.9900E+36
K562 PolyA+ Nucleus Rep1:  range =   3.911      0.9900E+36
K562 Total Chromatin Rep1:  range =  0.9373      0.9900E+36


Rule  22:    4  variables
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```
support =  0.1744      coeff =  0.1043      importance =   15.81
K562 PolyA+ Cytosol Rep1:  range = -0.9900E+36    13.81
K562 PolyA- Cytosol Rep1:  range =  0.2219        0.9900E+36
K562 PolyA+ Nucleus Rep1:  range =   1.220        18.95
K562 Total Nucleolus Rep1:  range = -0.9900E+36    3.317


Rule  23:     2  variables
support =  0.3907      coeff =  0.7255E-01  importance =   14.14
K562 PolyA- Whole Cell Rep1:  range =   1.019        0.9900E+36
K562 Total Nucleoplasm Rep1:  range = -0.9900E+36    4.247


Rule  24:     3  variables
support =  0.1578      coeff =  0.9210E-01  importance =   13.42
K562 PolyA- Cytosol Rep1:  range =  0.1512        0.9900E+36
K562 PolyA+ Nucleus Rep1:  range =   2.149        17.98
K562 PolyA+ Whole Cell Rep1:  range = -0.9900E+36    11.47


Rule  25:     1  variables
support =  0.3841      coeff =  0.6722E-01  importance =   13.07
K562 PolyA- Nucleus Rep1:  range =   1.281        23.47


Rule  26:     3  variables
support =  0.3091      coeff =  0.5877E-01  importance =   10.85
K562 PolyA+ Whole Cell Rep1:  range =   3.884        0.9900E+36
K562 Total Chromatin Rep1:  range =  0.9334        0.9900E+36
K562 Total Nucleolus Rep1:  range = -0.9900E+36    5.077


Rule  27:     1  variables
support =  0.2230      coeff =  0.5637E-01  importance =   9.376
K562 PolyA- Nucleus Rep1:  range =   3.030        0.9900E+36


Rule  28:     1  variables
support =  0.7781      coeff = -0.5094E-01  importance =   8.458
K562 PolyA- Whole Cell Rep1:  range = -0.9900E+36    8.602


Rule  29:     1  variables
support =  0.4404      coeff = -0.3947E-01  importance =   7.829
K562 PolyA- Whole Cell Rep1:  range = -0.9900E+36   0.8564


Rule  30:     1  variables
support =  0.1634      coeff =  0.4923E-01  importance =   7.273
K562 PolyA- Whole Cell Rep1:  range =   12.87        0.9900E+36


Rule  31:     1  variables
support =  0.8124      coeff = -0.4605E-01  importance =   7.185
K562 PolyA- Nucleus Rep1:  range = -0.9900E+36    3.497


Rule  32:     3  variables
support =  0.2219      coeff = -0.3789E-01  importance =   6.291
K562 PolyA+ Nucleus Rep1:  range =  0.7797        9.997
```

```
K562 PolyA- Nucleus Rep1:  range = -0.9900E+36   2.305
K562 Total Nucleolus Rep1:  range =  0.3620       0.9900E+36


Rule  33:    1  variables
support =  0.3753E-01  coeff = -0.7988E-01  importance =   6.066
K562 Total Nucleoplasm Rep1:  range =   4.227       5.312


Rule  34:    1  variables
support =  0.3223      coeff = -0.3179E-01  importance =   5.936
K562 PolyA- Cytosol Rep1:  range = -0.9900E+36  0.9039E-02


Rule  35:    2  variables
support =  0.5607      coeff =  0.2353E-01  importance =   4.666
K562 PolyA- Cytosol Rep1:  range =  0.9129E-01  0.9900E+36
K562 PolyA- Nucleus Rep1:  range =  0.2371       0.9900E+36


Rule  36:    1  variables
support =  0.5927      coeff = -0.2014E-01  importance =   3.954
K562 PolyA- Whole Cell Rep1:  range = -0.9900E+36   2.987


Rule  37:    2  variables
support =  0.4680      coeff = -0.1769E-01  importance =   3.528
K562 PolyA- Cytosol Rep1:  range = -0.9900E+36  0.1592
K562 Total Nucleolus Rep1:  range = -0.9900E+36   2.408


Rule  38:    1  variables
support =  0.7770      coeff = -0.1908E-01  importance =   3.174
K562 PolyA- Nucleus Rep1:  range = -0.9900E+36   3.030


Rule  39:    2  variables
support =  0.4812      coeff = -0.1398E-01  importance =   2.790
K562 PolyA- Cytosol Rep1:  range = -0.9900E+36  0.2207
K562 PolyA- Whole Cell Rep1:  range = -0.9900E+36   2.935


Rule  40:    1  variables
support =  0.3565      coeff =  0.6244E-02  importance =   1.195
K562 PolyA- Whole Cell Rep1:  range =   3.932       0.9900E+36


Rule  41:    1  variables
support =  0.3223      coeff = -0.4765E-02  importance =  0.8899
K562 PolyA- Cytosol Rep1:  range = -0.9900E+36  0.9039E-02


Rule  42:    2  variables
support =  0.2980      coeff =  0.4736E-02  importance =  0.8656
K562 PolyA+ Nucleus Rep1:  range =   6.689       0.9900E+36
K562 Total Chromatin Rep1:  range =  0.9476       0.9900E+36


Rule  43:    2  variables
support =  0.4724      coeff = -0.3471E-02  importance =  0.6925
K562 PolyA+ Cytosol Rep1:  range = -0.9900E+36   4.139
```

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K562 PolyA- Cytosol Rep1:  range = -0.9900E+36   0.1986


Rule   44:     1   variables
support =  0.4161      coeff = -0.3064E-02  importance =  0.6035
K562 PolyA- Cytosol Rep1:  range = -0.9900E+36   0.9123E-01


Rule   45:     1   variables
support =  0.4801      coeff = -0.1800E-02  importance =  0.3594
K562 Total Chromatin Rep1:  range = -0.9900E+36   0.5967


Rule   46:     2   variables
support =  0.3234      coeff =  0.1165E-02  importance =  0.2178
K562 PolyA+ Nucleus Rep1:  range =    1.465       0.9900E+36
K562 PolyA- Whole Cell Rep1:  range =    4.632       0.9900E+36


Rule   47:     1   variables
support =  0.3046      coeff =  0.7856E-03  importance =  0.1445
K562 PolyA- Cytosol Rep1:  range =   0.6214       0.9900E+36


Rule   48:     1   variables
support =  0.4404      coeff = -0.6620E-03  importance =  0.1313
K562 PolyA- Whole Cell Rep1:  range = -0.9900E+36   0.8577


Rule   49:     1   variables
support =  0.2373      coeff = -0.5030E-03  importance =  0.8552E-01
K562 Total Nucleolus Rep1:  range = -0.9900E+36   0.4185E-03


Rule   50:     1   variables
support =  0.4161      coeff = -0.2731E-03  importance =  0.5380E-01
K562 PolyA- Cytosol Rep1:  range = -0.9900E+36   0.9123E-01


Rule   51:     1   variables
support =  0.4161      coeff = -0.1771E-03  importance =  0.3488E-01
K562 PolyA- Cytosol Rep1:  range = -0.9900E+36   0.9123E-01


Rule   52:     1   variables
support =  0.6435      coeff = -0.1663E-03  importance =  0.3183E-01
K562 PolyA- Whole Cell Rep1:  range = -0.9900E+36    3.932


Rule   53:     2   variables
support =  0.4702      coeff = -0.1068E-03  importance =  0.2131E-01
K562 PolyA+ Cytosol Rep1:  range = -0.9900E+36   7.040
K562 PolyA- Cytosol Rep1:  range = -0.9900E+36   0.1686


Rule   54:     1   variables
support =  0.4161      coeff = -0.5079E-04  importance =  0.1000E-01
K562 PolyA- Cytosol Rep1:  range = -0.9900E+36   0.9123E-01


Rule   55:     1   variables
support =  0.4161      coeff = -0.1746E-04  importance =  0.3440E-02
```

K562 PolyA- Cytosol Rep1: range = -0.9900E+36   0.9123E-01

Rule 56:   1 variables
support = 0.3565   coeff = 0.8408E-13 importance = 0.1609E-10
K562 PolyA- Whole Cell Rep1: range =   3.926   0.9900E+36

Rule 57:   1 variables
support = 0.1876   coeff = 0.8711E-14 importance = 0.1359E-11
K562 PolyA- Nucleus Rep1: range =   3.497   0.9900E+36

Rule 58:   1 variables
support = 0.2219   coeff = 0.1681E-15 importance = 0.2791E-13
K562 PolyA- Whole Cell Rep1: range =   8.602   0.9900E+36

Rule 59:   1 variables
support = 0.5839   coeff = 0.2865E-16 importance = 0.5644E-14
K562 PolyA- Cytosol Rep1: range = 0.9123E-01   0.9900E+36

Rule 60:   1 variables
support = 0.5839   coeff = 0.2149E-16 importance = 0.4233E-14
K562 PolyA- Cytosol Rep1: range = 0.9123E-01   0.9900E+36

Rule 61:   1 variables
support = 0.5839   coeff = 0.7164E-17 importance = 0.1411E-14
K562 PolyA- Cytosol Rep1: range = 0.9123E-01   0.9900E+36

Rule 62:   1 variables
support = 0.5839   coeff = 0.3582E-17 importance = 0.7055E-15
K562 PolyA- Cytosol Rep1: range = 0.9123E-01   0.9900E+36