

Model

multivariate

original

Genes

3000

2000

1000

3827

3942

305

142

156

296

392

376

95

473

225

86

57

414

1012

20

1

3

32

32

77

6

84

1

7

21

IGHV

trisomy12

del13q14

del8p12

gain8q24

del11q22.3

del17p13

BRAF

NOTCH1

SF3B1

TP53

ATM

MED12

Variant