



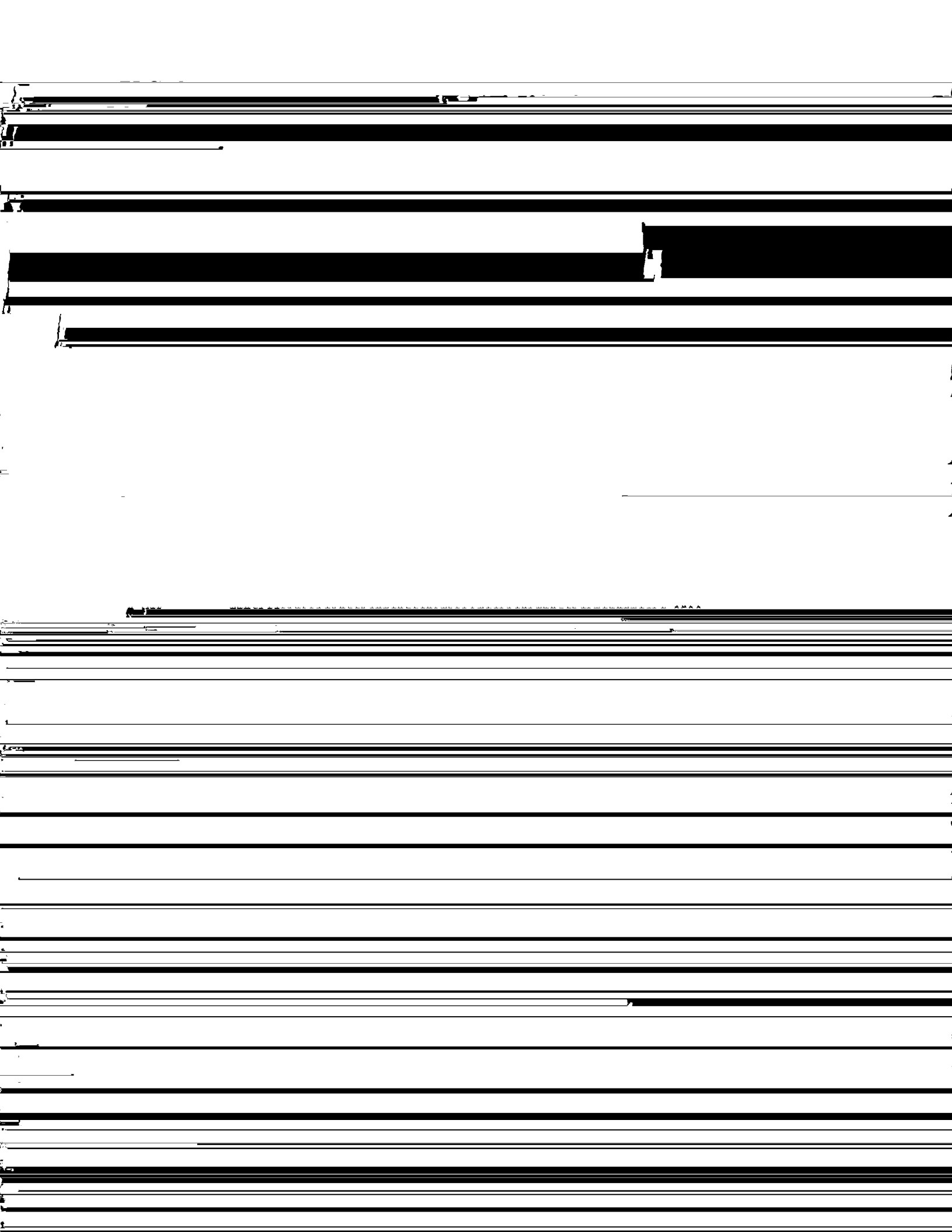
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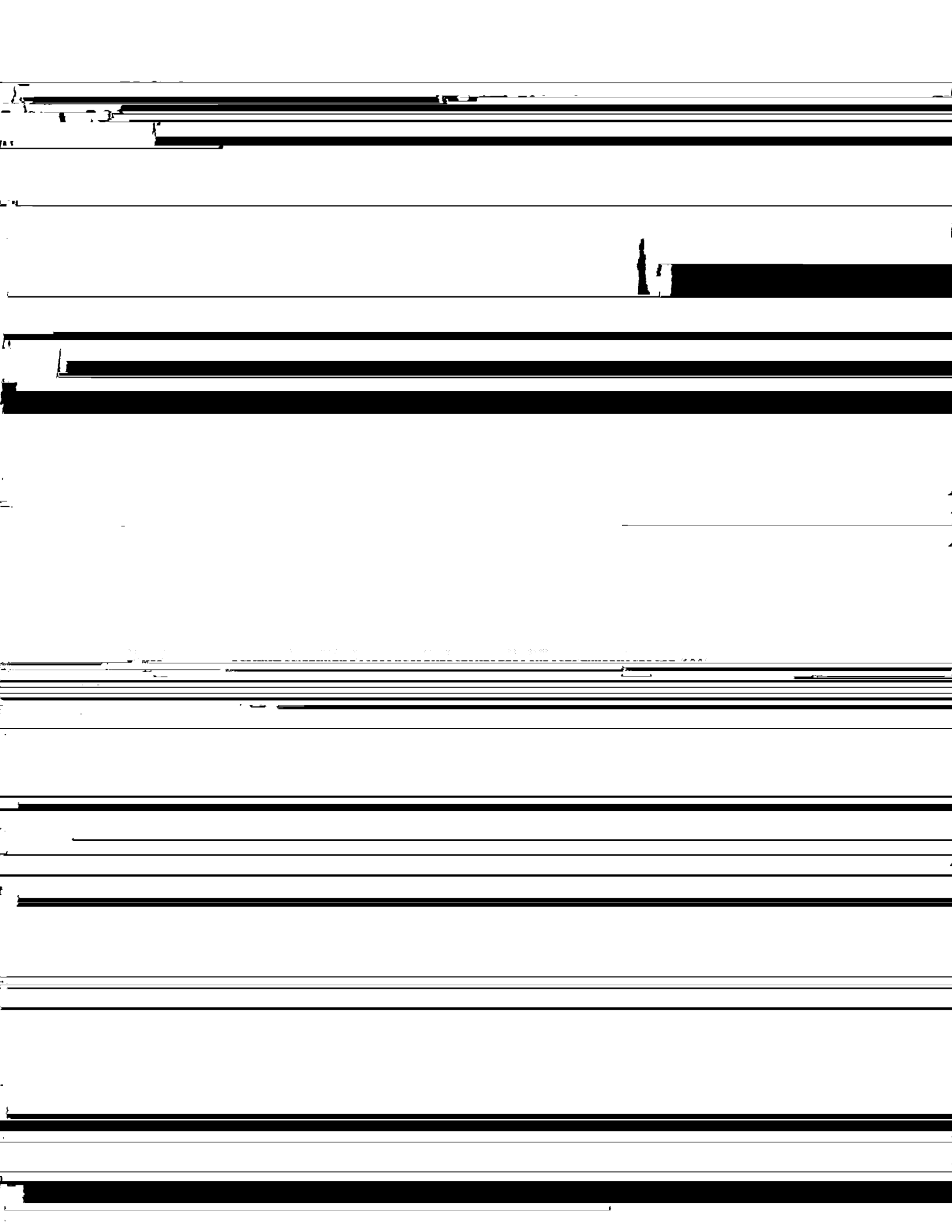
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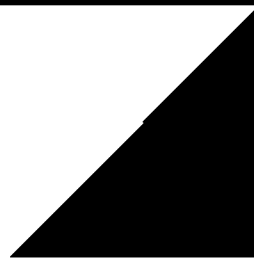
[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]



1

2



3

4

The present invention further provides a variety of mod... covered with use of DDL1 needed nucleic acids for control

5

6

some embodiments, the isolated nucleic acid is operably linked to a nucleic acid comprising a nucleic acid of the invention, or a

linked to a heterologous sequence. In certain embodiments, the D1d1 nucleic acid is an D1D2 sequence, or a variant thereof.

embodiments, the heterologous sequence is functional in a cell, and transfer of said nucleic acid is performed by transfer



1

1

some embeddings, the selective star covers the selective environmental factors. In other words, transgenic or consti

9

nucleotides or amino acids on the 3' or 5' end of the

10

A polynucleotide sequence is "heterologous to" a second

segmented sequence, as long as the sequence retains the polynucleotide sequence if it originates from a foreign



low complexity filters, and to disable the use of compar

Examples of a useful algorithm in this regard include: list

ing based statistics. One should also confirm that the

of the text is DELETED - I M U P L I N



...structure from wild type owing acid sequence is conserved ... structure contains a nucleotide sequence of SEQ ID NO. 1. 2

1

...~~sequence~~ ... can increase the likelihood of loss of ... A, E and/or C ... on a fragment thereof. In preferred aspect:

relative to the species of the host plant (although not *sp. Dbl1* for improved function. The specific mutations are

enhancer. The regulatory sequence may then be introduced into a breeding program. The Fkb1 gene can be provided with



preferably an elite inbred maize line or an elite inbred hybrid— included. Thus, the present invention encompasses a variety

\_\_\_\_\_

25

Photomina of the two mutants along with S-NIT and

26

Example 4

described procedure. See also photomina of mutants 21



SEQUENCE LISTING

<210> SEQ ID NO 1

<212> TYPE: DNA  
<213> ORGANISM: *Triticum aestivum*

<400> SEQUENCE: 1

-continued

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[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

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[REDACTED]

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[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

continued

35

36

-continued

Lys Val Thr Thr Gly Pro Asp Phe Ile Ala Leu Arg Asp Leu Gly Asp

260

265

270

Asp Asp Phe Cys Lys Arg Leu Thr Thr Glu Gly Lys Tyr Asp Cys Leu

275

280

285

Asp Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr

290

295

300

Glu Asp Ile Val Cys Asp Asp Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr

305

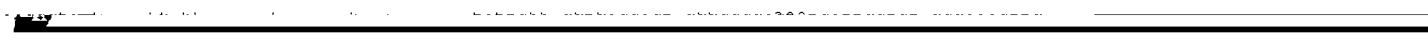
310

315

320

Asp Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr

XX





-continued

Gly Asn Ile Gly Asp Lys Ser Val Leu Val Thr Ile Phe Thr Ser Lys

35

40

45

Val Gly Val Val Asp Ile Lys Ser Thr Thr Phe Ser Met Phe Thr Ser

Asp Asp Thr Ser Met Ile Met Ala Ser Asp Met Ser Met Met Ile Ser

Asn Arg Asp Thr Leu Phe Ivs Val Thr Thr Gly Pro Asp Phe Ile Ala

Val Ser Ser Val Gly Ser Ser Ser Phe Ser Thr Ser Thr Met Met Ala

100

105

110

Gly Lys Tyr Asp Cys Leu Asn Ala Ala Val Gly Ser Ile Thr Ala Glu

115

120

125

-continued

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<211> LENGTH: 20  
<212> TYPE: DNA  
<213> ORGANISM: Artificial Sequence

<210> SEQ ID NO 13

<212> TYPE: DNA  
<213> ORGANISM: Artificial Sequence

<220> FEATURE:  
<221> FEATURE INFORMATION: chemically synthesized oligonucleotide

continued

<220> FEATURE:

<223> OTHER INFORMATION: chemically synthesized oligonucleotide

<400> SEQUENCE: 10

<210> SEQ ID NO: 10

<212> TYPE: DNA

<213> ORGANISM: Artificial\_Synthes

<220> FEATURE:

<223> OTHER INFORMATION: chemically synthesized oligonucleotide

-continued

<210> SEQ ID NO 24

<212> TYPE: DNA

<220> FEATURE:

-continued

Tyr Asp Cys Leu Asn Ala Ala Val Gly Ser Ile Thr Ala Glu Val Ivs

Met Arg Cys Ile Glu Pro Ile Val Ser Arg Asn Ile Thr Asn Val Asp

245 250 255

Phe Arg Leu Gly Gly Ala Ivs Ile Thr Thr Arg Gly Ile Gly Gly Leu

260 265 270

Asn Ser Glu Ile Val Glu Asn Met Thr Thr Thr Thr Asn Ivs Thr Ivs

275 280 285

Met Ile Phe Thr Thr Thr Arg Thr Val Gly Ser Thr Thr Ser Ser Thr

290 295 300

Val Ser Leu Ivs Ile Gly Val Ivs Thr Ivs Phe Ivs Ser Gly Ile Pro

Phe Val Val Asn Gly Gly Val Gly Val Ser Thr Gly Phe Ser Gly Ser

[REDACTED]

-continued

Val Val Arg Ile Leu Ser Asp Thr Phe Asp Met Phe Thr Arg Arg Ser

165 170 175

Asp Asp Thr Ile Thr Ala Asp Ser Thr Asp Thr Thr His Asp Asp Arg

Asp Thr Leu Phe Lys Val Thr Thr Gly Pro Asp Phe Ile Ala Leu Arg

Leu Val Gly Asp Asp Asp Phe Asp Asp Asp Asp Thr Thr Thr Thr

[REDACTED]

210 215 220

Thr Asp Asp Leu Asp Ala Ala Val Gly Asp Thr Thr Thr Thr Thr

The invention claimed is:

incorporated into the present disclosure by reference.

1. A method for determining a parameter of a system, comprising:

receiving

data from