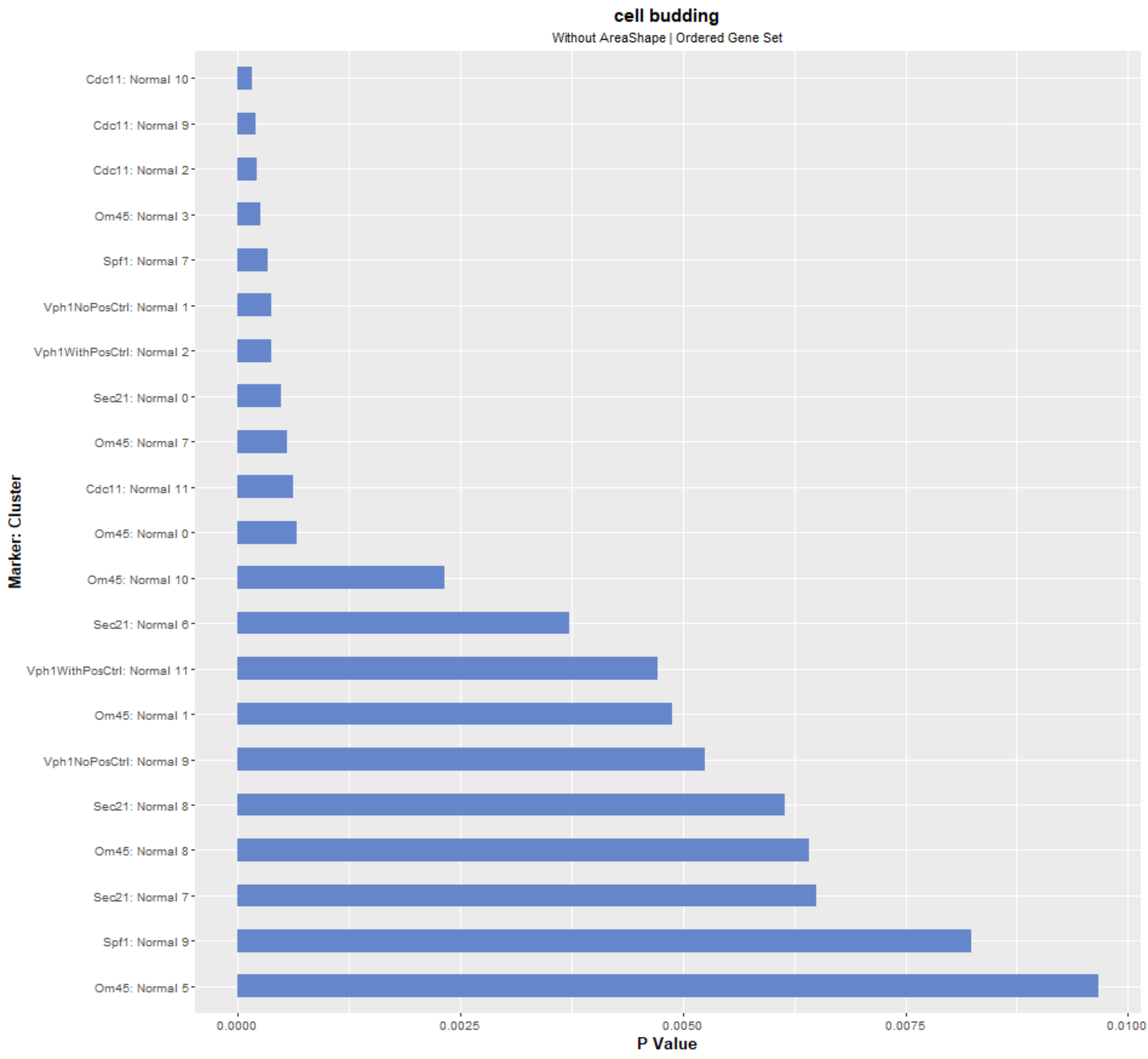
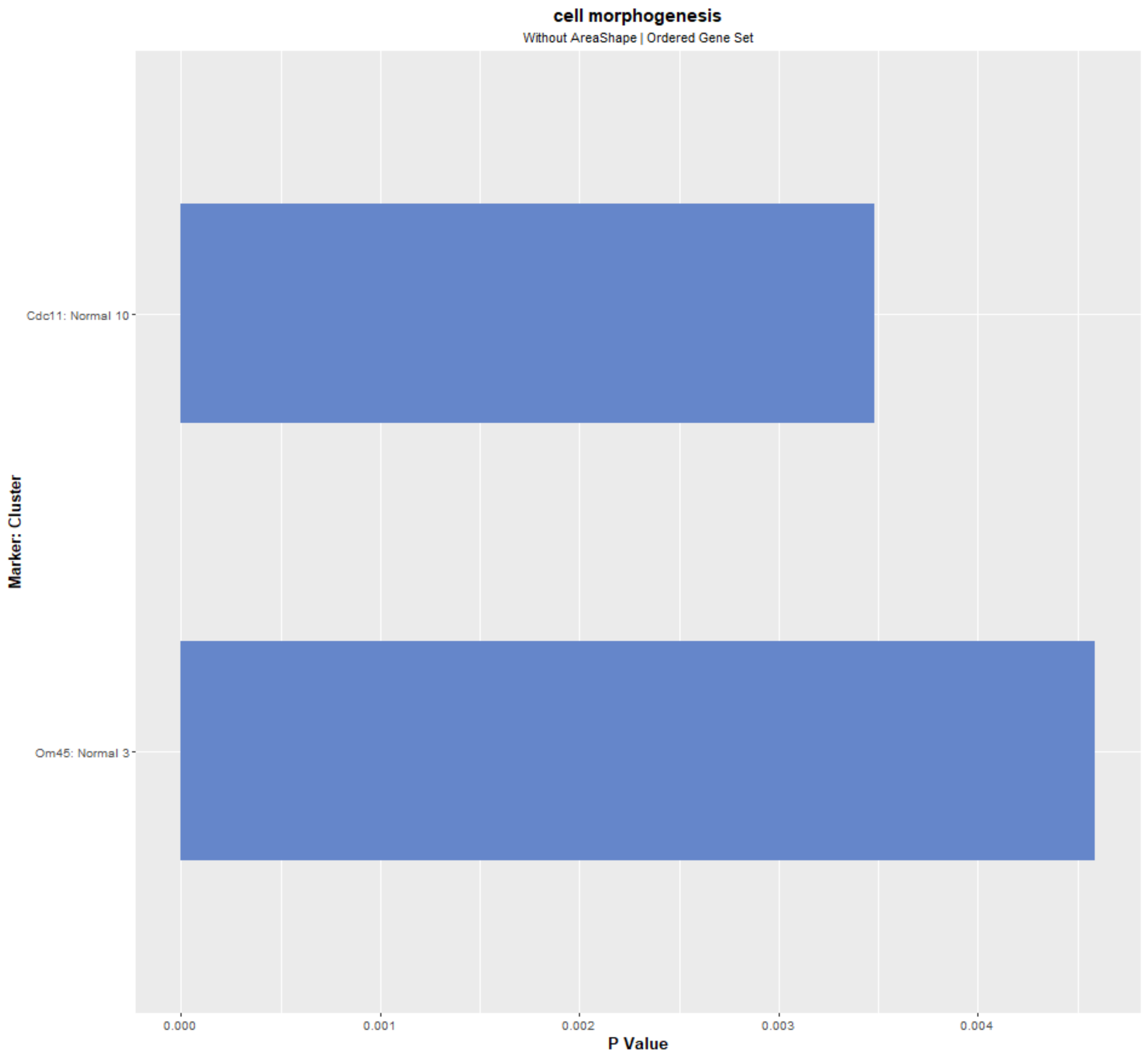
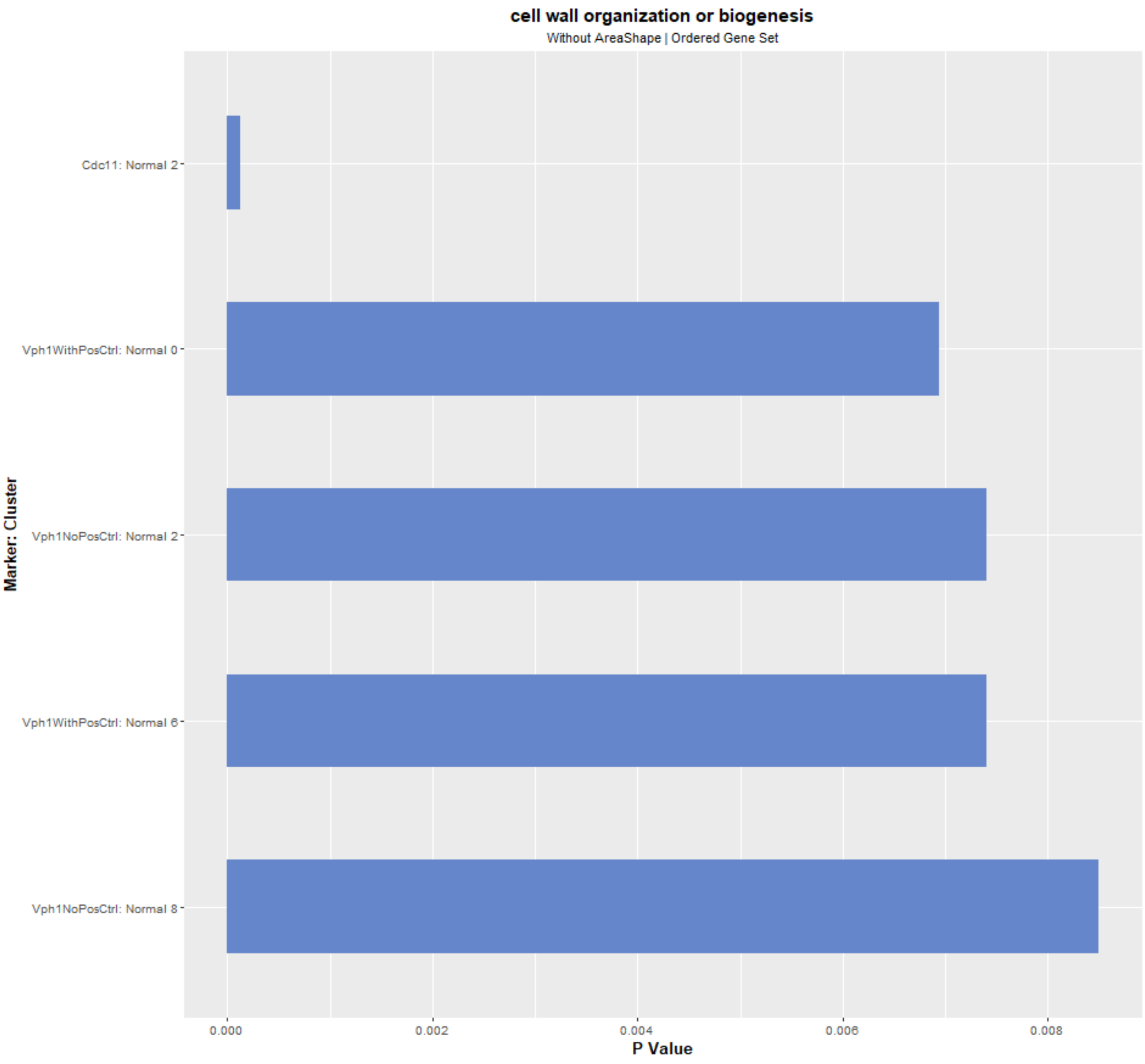
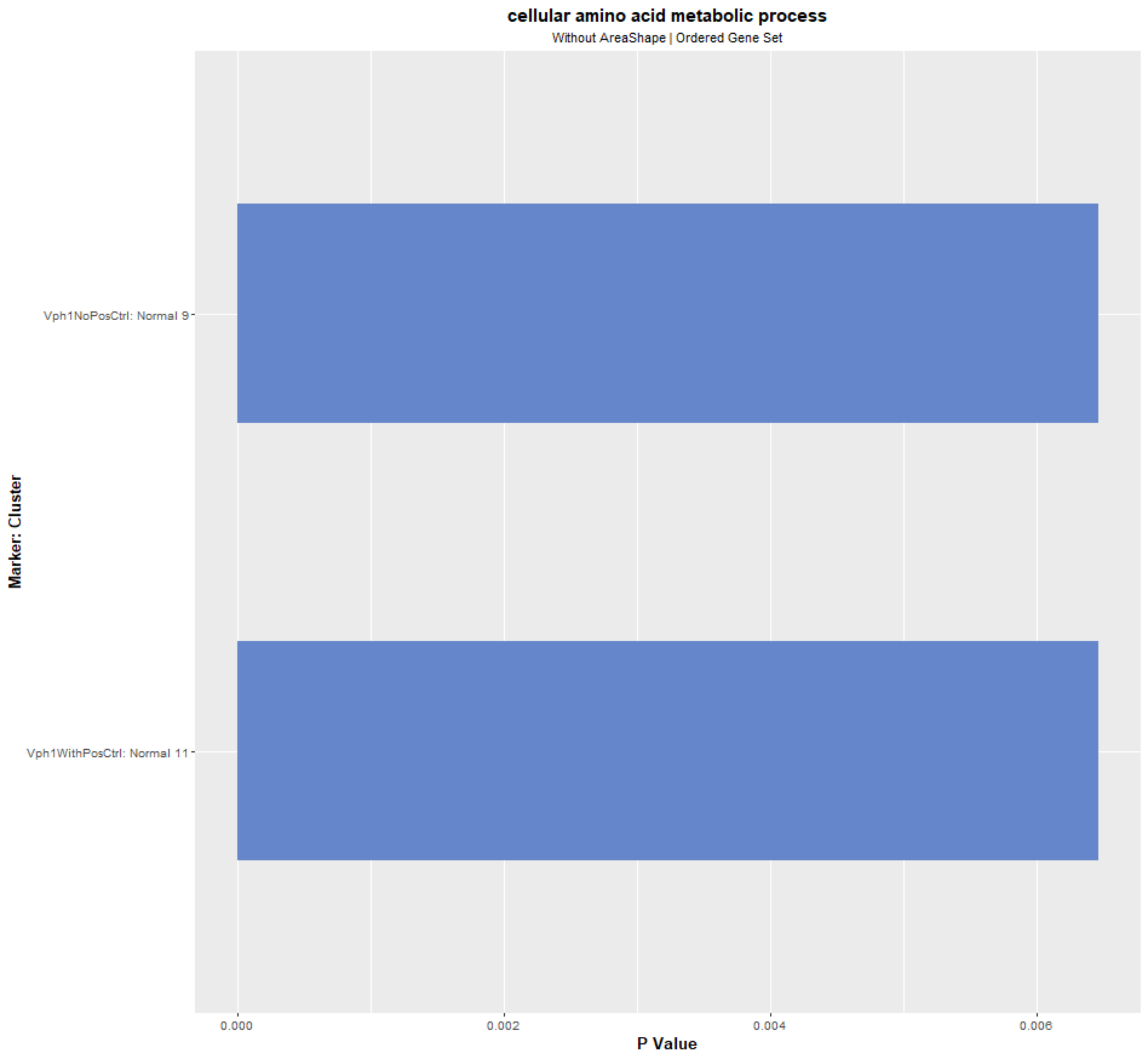

cell budding
Without AreaShape | Ordered Gene Set
Marker: Cluster
Cdc11: Normal 10
Cdc11: Normal 9
Cdc11: Normal 2
Om45: Normal 3
Spf1: Normal 7
Vph1NoPosCtrl: Normal 1
Vph1WithPosCtrl: Normal 2
Sec21: Normal 0
Om45: Normal 7
Cdc11: Normal 11
Om45: Normal 0
Om45: Normal 10
Sec21: Normal 6
Vph1WithPosCtrl: Normal 11
Om45: Normal 1
Vph1NoPosCtrl: Normal 9
Sec21: Normal 8
Om45: Normal 8
Sec21: Normal 7
Spf1: Normal 9
Om45: Normal 5
0.0000
0.0025
0.0050
0.0075
0.0100
P Value


cell morphogenesis
Without AreaShape | Ordered Gene Set
Cdc11: Normal 10
Om45: Normal 3
Cluster
Marker:
0.000
0.001
0.002
0.003
0.004
P Value


cell wall organization or biogenesis
Without AreaShape | Ordered Gene Set
Cdc11: Normal 2
Vph1WithPosCtrl: Normal 0
Vph1NoPosCtrl: Normal 2
Vph1WithPosCtrl: Normal 6
Vph1NoPosCtrl: Normal 8
Marker: Cluster
0.000
0.002
0.004
0.006
0.008
P Value


cellular amino acid metabolic process
Without AreaShape | Ordered Gene Set
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Marker: Cluster
0.000
0.002
0.004
0.006
P Value

cellular response to DNA damage stimulus

Without AreaShape | Ordered Gene Set

Cluster

Marker:

Cdc11: Normal 1
Om45: Normal 9
Om45: Normal 3
Cdc11: Normal 3
Sec21: Normal 8
Sec21: Normal 7
Sec21: Normal 0
Om45: Normal 7
Cdc11: Normal 9
Om45: Normal 10
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Om45: Normal 8
Om45: Normal 5
Cdc11: Normal 4
Vph1WithPosCtrl: Normal 2
Vph1WithPosCtrl: Normal 3
Vph1NoPosCtrl: Normal 1
Vph1NoPosCtrl: Normal 10
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Sec21: Normal 4
Spf1: Normal 0
Sec21: Normal 6
Spf1: Normal 7
Sec21: Normal 9
Spf1: Normal 2
Sec21: Normal 5
Om45: Normal 1
Spf1: Normal 8

0.000
0.002
0.004
0.006
0.008

P Value

chromatin organization

Without AreaShape | Ordered Gene Set

Cluster

Marker:

Cdc11: Normal 1
Cdc11: Normal 9
Om45: Normal 3
Om45: Normal 10
Cdc11: Normal 3
Cdc11: Normal 4
Sec21: Normal 7
Spf1: Normal 9
Om45: Normal 5
Om45: Normal 7
Sec21: Normal 8
Om45: Normal 2
Sec21: Normal 0
Vph1NoPosCtrl: Normal 1
Vph1WithPosCtrl: Normal 2
Cdc11: Normal 7
Spf1: Normal 7
Om45: Normal 9
Spf1: Normal 0
Cdc11: Normal 10
Sec21: Normal 9
Spf1: Normal 2
Sec21: Normal 6
Cdc11: Normal 0
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Om45: Normal 6
Cdc11: Normal 5
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10

0.000
0.002
0.004
0.006

P Value

chromosome segregation

Without AreaShape | Ordered Gene Set

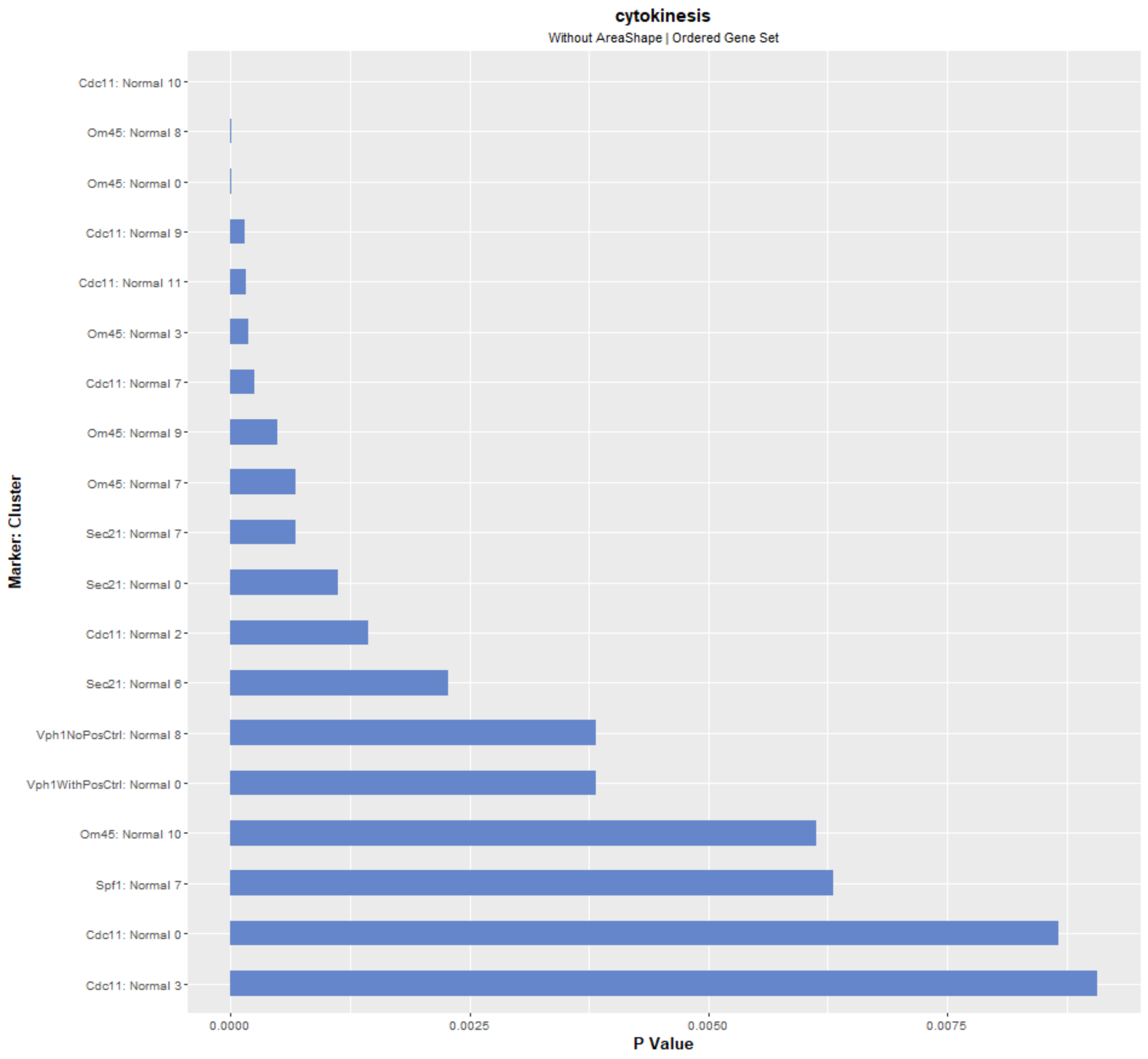
Om45: Normal 9
Cdc11: Normal 1
Om45: Normal 8
Om45: Normal 3
Cdc11: Normal 3
Sec21: Normal 9
Spf1: Normal 9
Sec21: Normal 0
Sec21: Normal 7
Spf1: Normal 7
Cdc11: Normal 11
Sec21: Normal 8
Cdc11: Normal 7
Cdc11: Normal 9
Om45: Normal 5
Om45: Normal 1
Vph1NoPosCtrl: Normal 1
Vph1WithPosCtrl: Normal 2
Om45: Normal 7
Vph1WithPosCtrl: Normal 3
Vph1NoPosCtrl: Normal 10
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Om45: Normal 10
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Sec21: Normal 3
Cdc11: Normal 8
Sec21: Normal 6
Spf1: Normal 5

Cluster

Marker:

0.000
0.001
0.002

P Value


cytokinesis
Without AreaShape | Ordered Gene Set
Marker: Cluster
Cdc11: Normal 10
Om45: Normal 8
Om45: Normal 0
Cdc11: Normal 9
Cdc11: Normal 11
Om45: Normal 3
Cdc11: Normal 7
Om45: Normal 9
Om45: Normal 7
Sec21: Normal 7
Sec21: Normal 0
Cdc11: Normal 2
Sec21: Normal 6
Vph1NoPosCtrl: Normal 8
Vph1WithPosCtrl: Normal 0
Om45: Normal 10
Spf1: Normal 7
Cdc11: Normal 0
Cdc11: Normal 3
0.0000
0.0025
0.0050
0.0075
P Value

cytoplasmic translation

Without AreaShape | Ordered Gene Set

Cluster

Marker:

Vph1NoPosCtrl: Normal 9

Vph1WithPosCtrl: Normal 11

0.000

0.002

0.004

0.006

P Value

cytoskeleton organization

Without AreaShape | Ordered Gene Set

Cluster

Marker:

Om45: Normal 8
Om45: Normal 9
Spf1: Normal 9
Cdc11: Normal 1
Cdc11: Normal 3
Om45: Normal 3
Sec21: Normal 0
Sec21: Normal 7
Cdc11: Normal 10
Spf1: Normal 7
Cdc11: Normal 9
Sec21: Normal 9
Cdc11: Normal 11
Vph1WithPosCtrl: Normal 2
Om45: Normal 7
Vph1NoPosCtrl: Normal 1
Sec21: Normal 8
Cdc11: Normal 0
Cdc11: Normal 7
Om45: Normal 1
Om45: Normal 0
Vph1WithPosCtrl: Normal 10
Vph1NoPosCtrl: Normal 7
Om45: Normal 6
Cdc11: Normal 8
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Vph1NoPosCtrl: Normal 4
Vph1WithPosCtrl: Normal 9
Om45: Normal 5

0.0e+00
5.0e-06
1.0e-05
1.5e-05

P Value

DNA recombination

Without AreaShape | Ordered Gene Set

Marker: Cluster

Cdc11: Normal 1

Cdc11: Normal 3

Om45: Normal 9

Sec21: Normal 7

Sec21: Normal 4

Om45: Normal 3

Sec21: Normal 8

0.0000

0.0004

0.0008

0.0012

P Value

DNA repair

Without AreaShape | Ordered Gene Set

Cluster

Cdc11: Normal 1
Om45: Normal 3
Om45: Normal 9
Cdc11: Normal 3
Sec21: Normal 8
Sec21: Normal 7
Sec21: Normal 0
Om45: Normal 8
Cdc11: Normal 9
Om45: Normal 10
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Om45: Normal 5
Om45: Normal 7
Cdc11: Normal 4

Marker:

Vph1NoPosCtrl: Normal 1
Vph1WithPosCtrl: Normal 2
Vph1NoPosCtrl: Normal 10
Vph1WithPosCtrl: Normal 3
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Sec21: Normal 4
Om45: Normal 1
Sec21: Normal 9
Spf1: Normal 0
Sec21: Normal 6
Spf1: Normal 7
Spf1: Normal 2
Sec21: Normal 5
Spf1: Normal 8

0.000
0.002
0.004

P Value

DNA replication

Without AreaShape | Ordered Gene Set

Cluster

Marker:

Cdc11: Normal 1
Om45: Normal 9
Om45: Normal 3
Cdc11: Normal 3
Cdc11: Normal 9
Om45: Normal 7
Sec21: Normal 7
Spf1: Normal 7
Sec21: Normal 0
Sec21: Normal 8
Om45: Normal 8
Vph1NoPosCtrl: Normal 1
Vph1WithPosCtrl: Normal 2
Om45: Normal 1
Spf1: Normal 9
Sec21: Normal 9
Vph1NoPosCtrl: Normal 9
Om45: Normal 10
Vph1WithPosCtrl: Normal 11
Spf1: Normal 2
Sec21: Normal 6
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Cdc11: Normal 0
Spf1: Normal 5
Cdc11: Normal 4

0.000
0.002
0.004
0.006

P Value

DNA-templated transcription, elongation

Without AreaShape | Ordered Gene Set

Marker: Cluster

Om45: Normal 10
Om45: Normal 5
Sec21: Normal 7
Cdc11: Normal 0
Cdc11: Normal 1
Om45: Normal 3
Sec21: Normal 4
Sec21: Normal 6
Cdc11: Normal 8
Sec21: Normal 8
Vph1NoPosCtrl: Normal 2
Vph1WithPosCtrl: Normal 6
Spf1: Normal 10
Sec21: Normal 0
Om45: Normal 1
Om45: Normal 2
Om45: Normal 8

0.0000
0.0025
0.0050
0.0075
0.0100

P Value

DNA-templated transcription, initiation

Without AreaShape | Ordered Gene Set

Cluster
Marker:

Spf1: Normal 7
Sec21: Normal 0
Sec21: Normal 6
Cdc11: Normal 8
Spf1: Normal 9
Sec21: Normal 9
Sec21: Normal 7
Cdc11: Normal 0
Om45: Normal 10
Om45: Normal 1
Om45: Normal 5
Om45: Normal 2
Om45: Normal 8
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Om45: Normal 3
Cdc11: Normal 1
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Sec21: Normal 8
Cdc11: Normal 10
Vph1NoPosCtrl: Normal 1
Vph1WithPosCtrl: Normal 2
Om45: Normal 4
Om45: Normal 6
Om45: Normal 9
Cdc11: Normal 9
Spf1: Normal 10
Sec21: Normal 5
Spf1: Normal 8

0.000
0.002
0.004
0.006
0.008

P Value

DNA-templated transcription, termination

Without AreaShape | Ordered Gene Set

Cluster

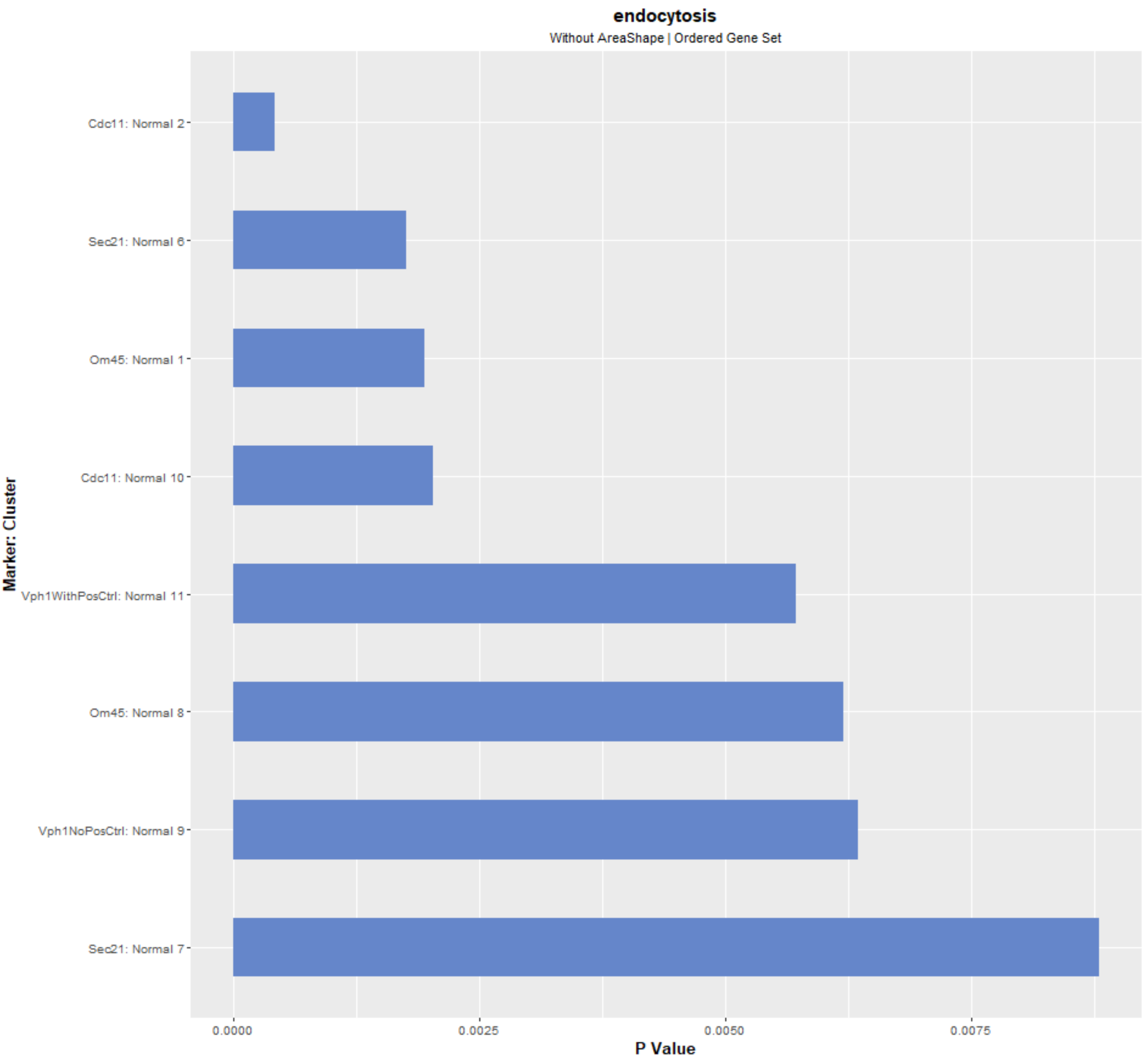
Om45: Normal 10
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Om45: Normal 3
Om45: Normal 8

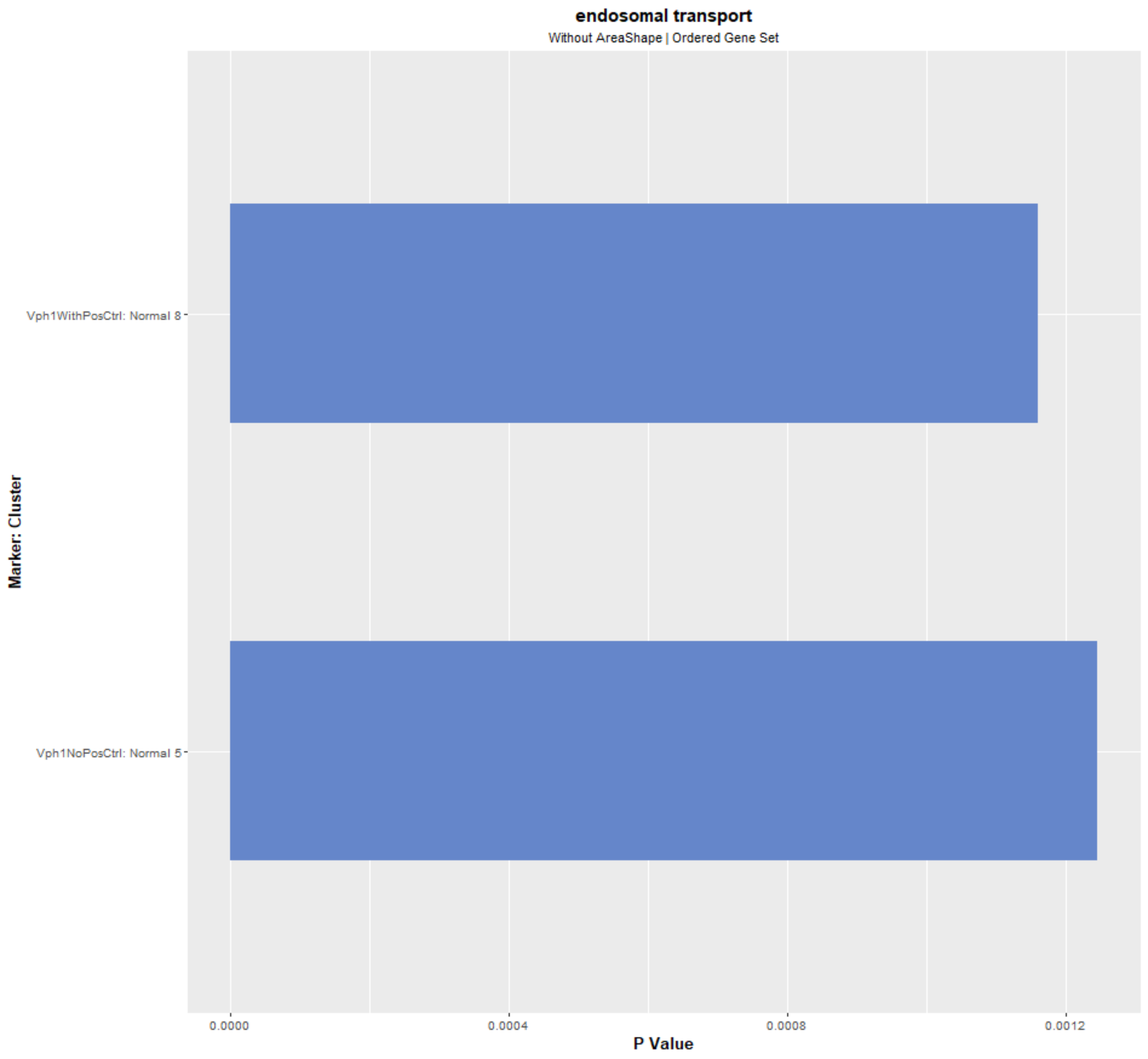
Marker:

Vph1NoPosCtrl: Normal 10
Vph1WithPosCtrl: Normal 3
Cdc11: Normal 8
Vph1NoPosCtrl: Normal 1
Vph1WithPosCtrl: Normal 2
Sec21: Normal 6
Om45: Normal 9

0.000
0.001
0.002
0.003
0.004

P Value


endocytosis
Without AreaShape | Ordered Gene Set
Cluster
Marker:
Cdc11: Normal 2
Sec21: Normal 6
Om45: Normal 1
Cdc11: Normal 10
Vph1WithPosCtrl: Normal 11
Om45: Normal 8
Vph1NoPosCtrl: Normal 9
Sec21: Normal 7
0.0000
0.0025
0.0050
0.0075
P Value


endosomal transport
Without AreaShape | Ordered Gene Set
Vph1WithPosCtrl: Normal 8
Vph1NoPosCtrl: Normal 5
Cluster
Marker:
0.0000
0.0004
0.0008
0.0012
P Value

exocytosis

Without AreaShape | Ordered Gene Set

Cluster

Marker:

Om45: Normal 5
Spf1: Normal 8
Sec21: Normal 6
Cdc11: Normal 8
Cdc11: Normal 2
Sec21: Normal 8
Spf1: Normal 7
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Om45: Normal 2
Sec21: Normal 2
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Om45: Normal 10
Spf1: Normal 10
Vph1NoPosCtrl: Normal 1
Vph1WithPosCtrl: Normal 2
Sec21: Normal 0
Cdc11: Normal 9
Vph1NoPosCtrl: Normal 10
Vph1WithPosCtrl: Normal 3
Sec21: Normal 7
Cdc11: Normal 7
Om45: Normal 11
Om45: Normal 1
Om45: Normal 3

0.0000
0.0025
0.0050
0.0075

P Value

Golgi vesicle transport

Without AreaShape | Ordered Gene Set

Cluster

Marker:

Cdc11: Normal 8
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Vph1NoPosCtrl: Normal 1
Vph1WithPosCtrl: Normal 2
Vph1NoPosCtrl: Normal 10
Vph1WithPosCtrl: Normal 3
Spf1: Normal 7
Om45: Normal 10
Cdc11: Normal 2
Om45: Normal 2
Spf1: Normal 8
Sec21: Normal 2
Sec21: Normal 8
Sec21: Normal 6
Sec21: Normal 0
Om45: Normal 6
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Spf1: Normal 10
Om45: Normal 1
Cdc11: Normal 0
Sec21: Normal 7
Om45: Normal 11
Sec21: Normal 3
Sec21: Normal 9
Om45: Normal 5
Cdc11: Normal 11
Spf1: Normal 5
Cdc11: Normal 9

0.00000
0.00025
0.00050
0.00075

P Value

histone modification

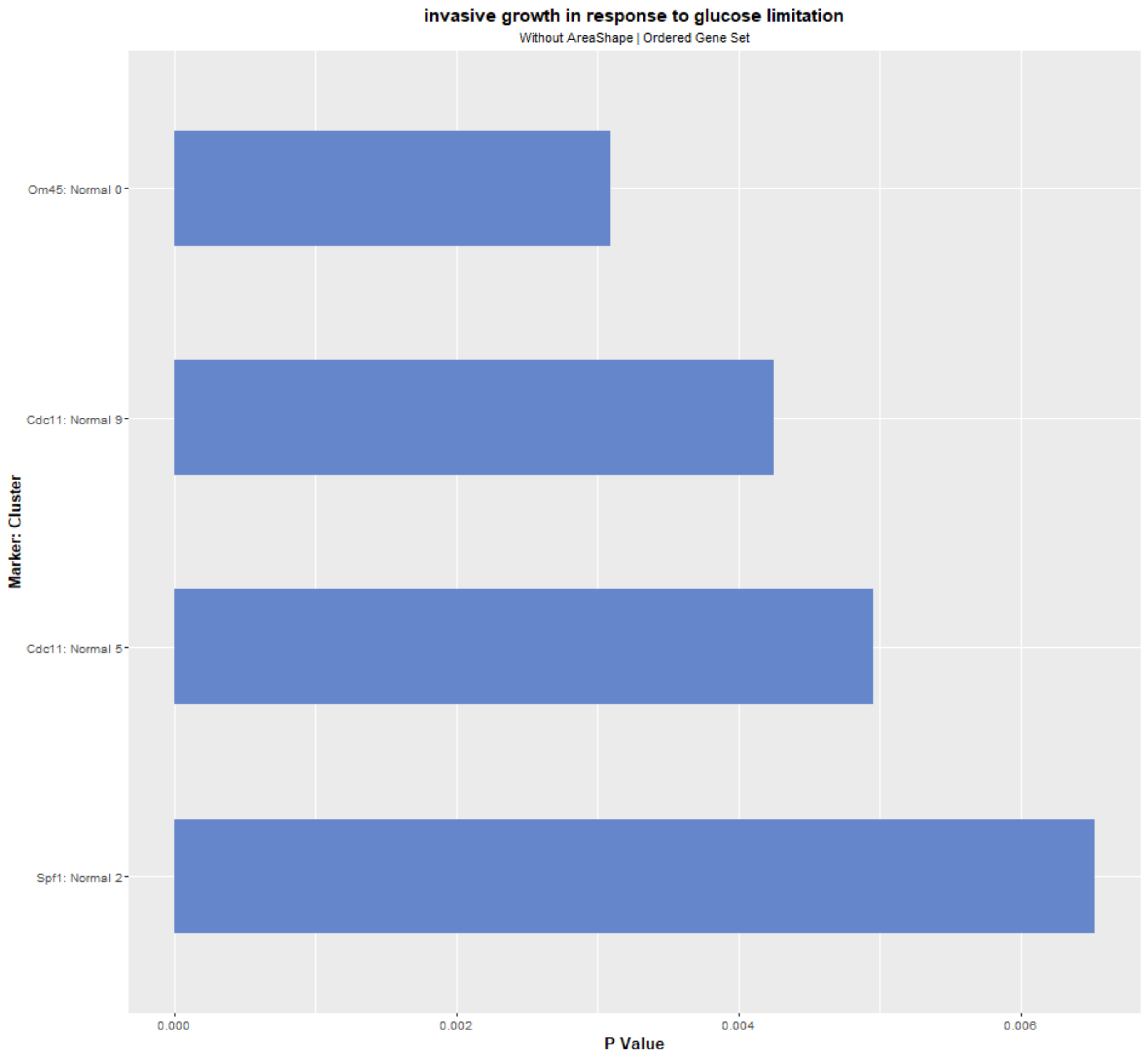
Without AreaShape | Ordered Gene Set

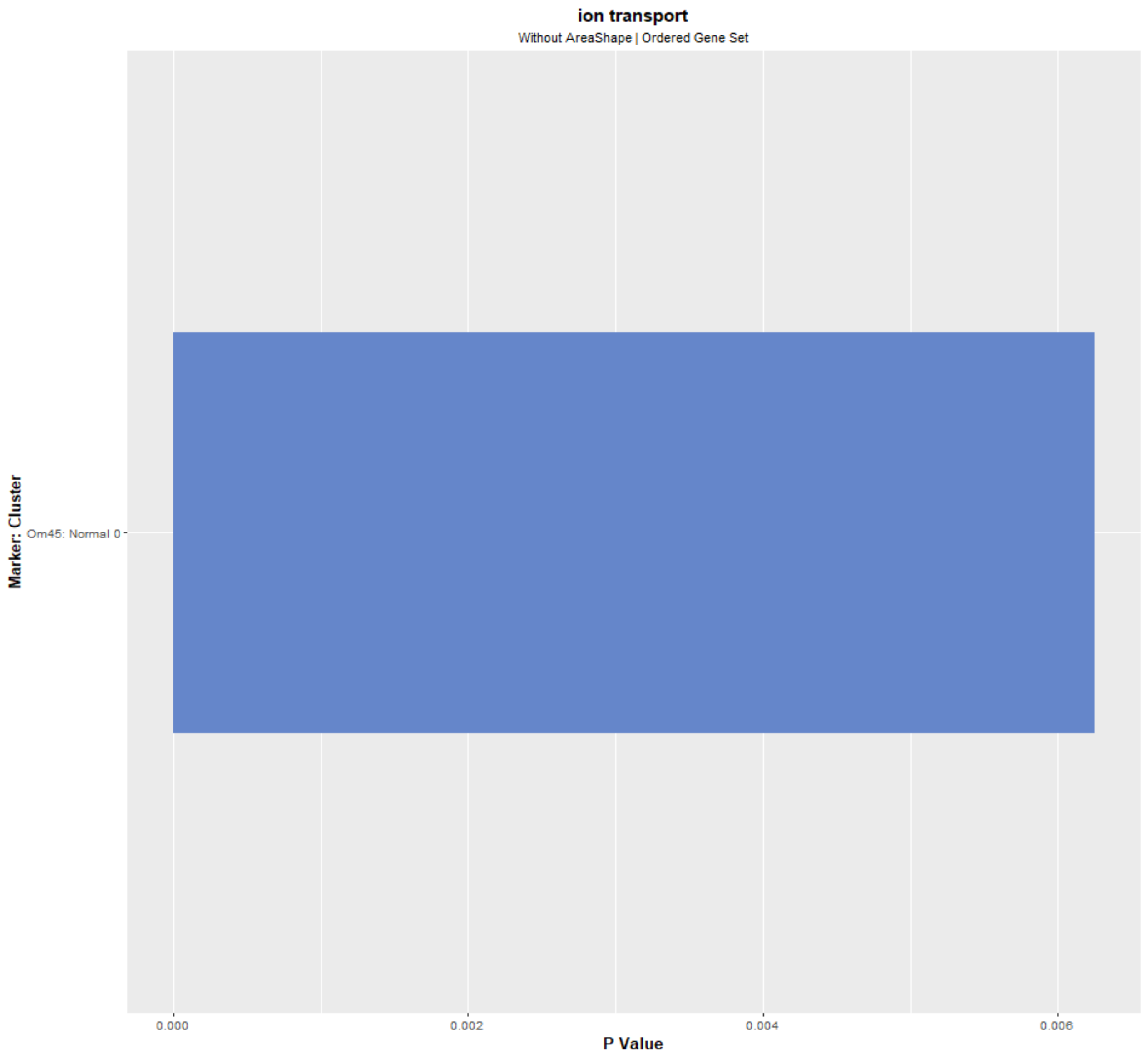
Marker: Cluster

Cdc11: Normal 1
Cdc11: Normal 9
Om45: Normal 2
Om45: Normal 10
Cdc11: Normal 3
Sec21: Normal 0
Spf1: Normal 0
Sec21: Normal 6
Sec21: Normal 8
Cdc11: Normal 4
Om45: Normal 5
Om45: Normal 6
Om45: Normal 7
Sec21: Normal 7
Spf1: Normal 7
Sec21: Normal 9
Spf1: Normal 9
Cdc11: Normal 11
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Cdc11: Normal 7

0.0000
0.0025
0.0050
0.0075
0.0100

P Value


invasive growth in response to glucose limitation
Without AreaShape | Ordered Gene Set
Om45: Normal 0
Cdc11: Normal 9
Cdc11: Normal 5
Spf1: Normal 2
Marker: Cluster
0.000
0.002
0.004
0.006
P Value


ion transport
Without AreaShape | Ordered Gene Set
Marker: Cluster
Om45: Normal 0
0.000
0.002
0.004
0.006
P Value

lipid metabolic process

Without AreaShape | Ordered Gene Set

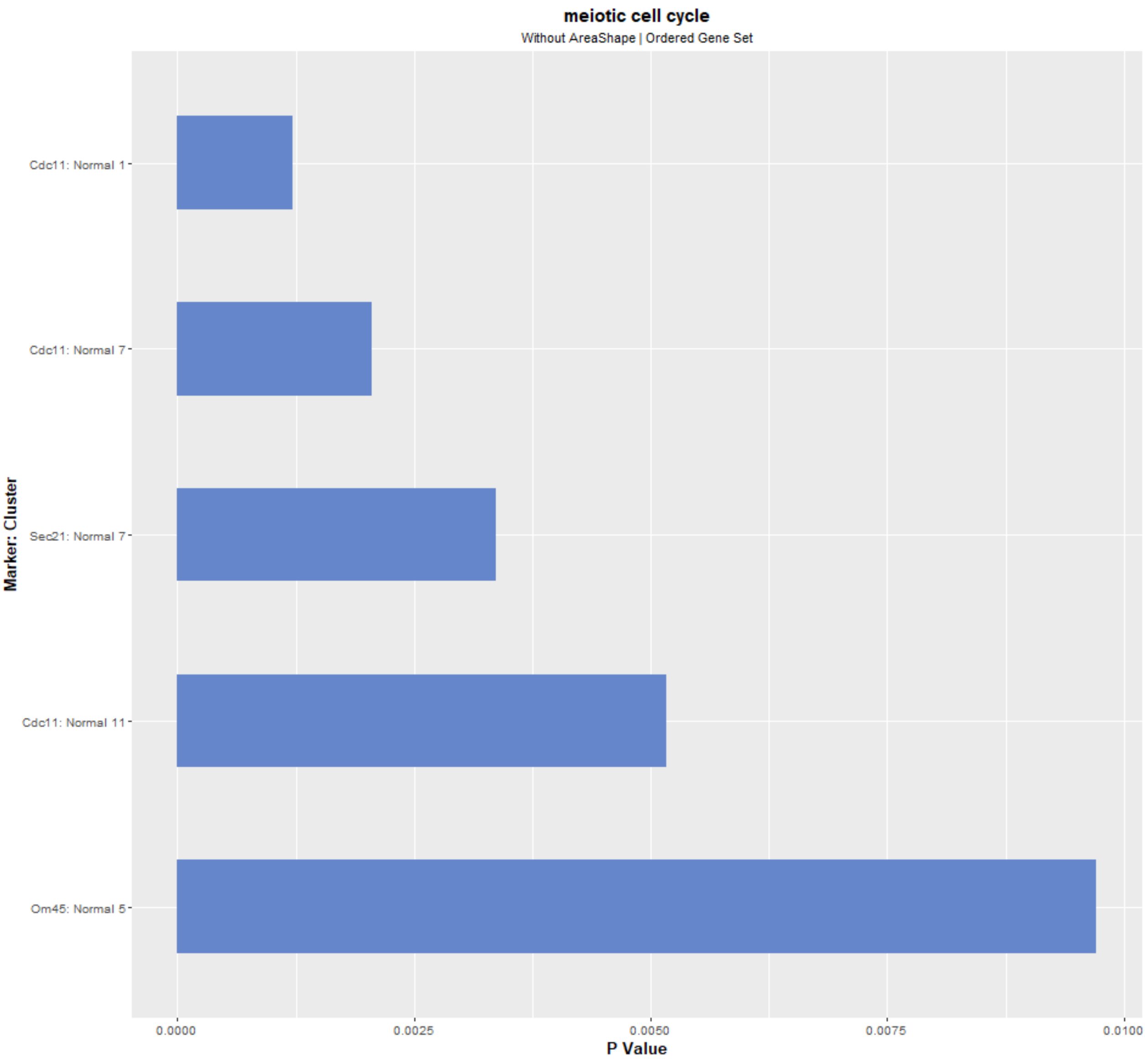
Cluster

Marker:

Vph1NoPosCtrl: Normal 1
Vph1WithPosCtrl: Normal 2
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Om45: Normal 1
Cdc11: Normal 0
Om45: Normal 3
Om45: Normal 10
Om45: Normal 6
Sec21: Normal 0
Cdc11: Normal 8
Spf1: Normal 7
Sec21: Normal 6
Om45: Normal 11
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Cdc11: Normal 10
Cdc11: Normal 4
Sec21: Normal 8
Cdc11: Normal 9
Spf1: Normal 8
Om45: Normal 2

0.0000
0.0025
0.0050
0.0075

P Value


meiotic cell cycle
Without AreaShape | Ordered Gene Set
Marker: Cluster
Cdc11: Normal 1
Cdc11: Normal 7
Sec21: Normal 7
Cdc11: Normal 11
Om45: Normal 5
0.0000
0.0025
0.0050
0.0075
0.0100
P Value

membrane fusion

Without AreaShape | Ordered Gene Set

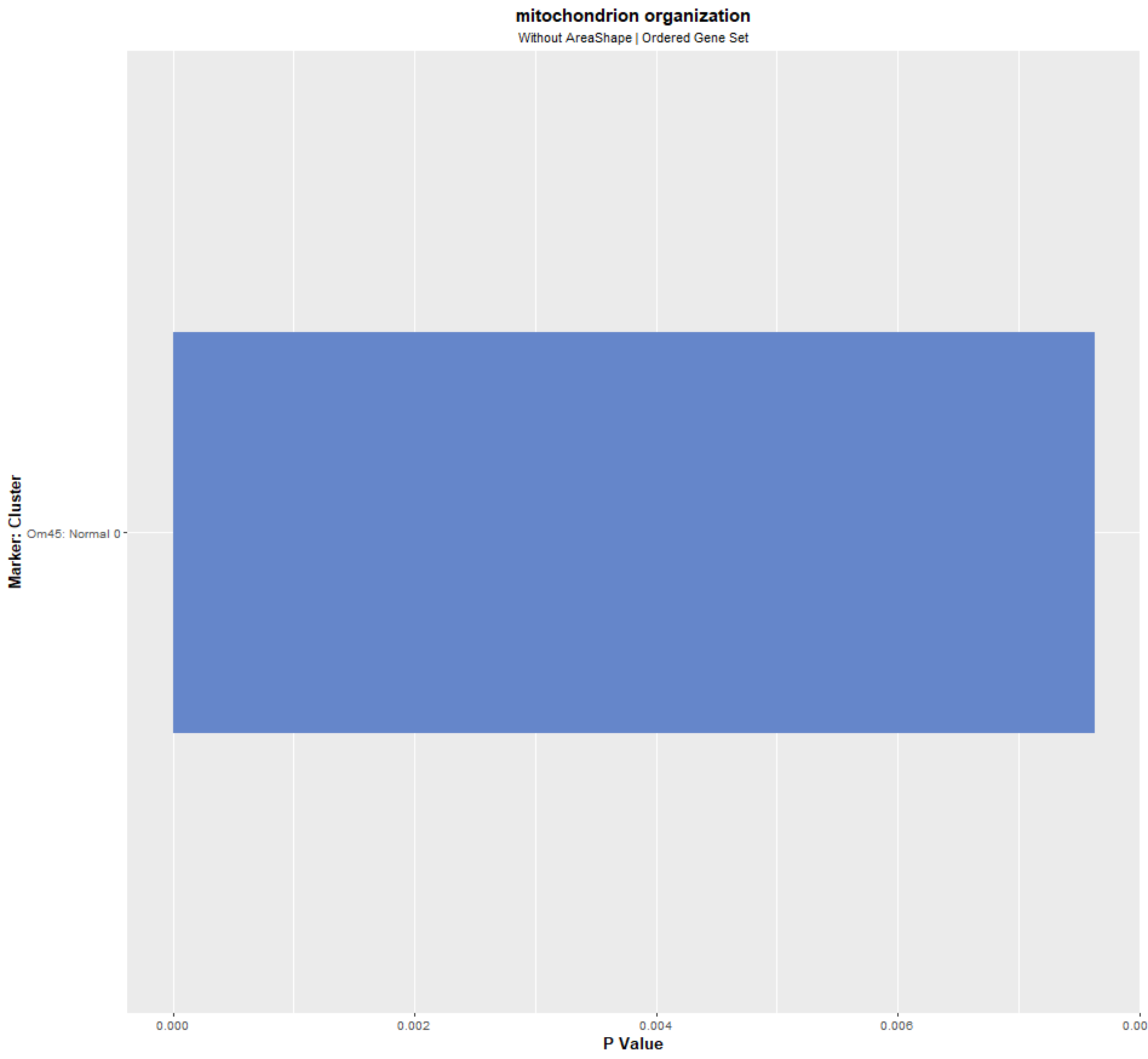
Cluster

Marker:

Cdc11: Normal 8
Vph1NoPosCtrl: Normal 10
Vph1WithPosCtrl: Normal 3
Vph1NoPosCtrl: Normal 1
Vph1WithPosCtrl: Normal 2
Sec21: Normal 8
Om45: Normal 10
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Spf1: Normal 7
Spf1: Normal 8
Sec21: Normal 2
Om45: Normal 2
Sec21: Normal 6
Vph1WithPosCtrl: Normal 11
Vph1NoPosCtrl: Normal 9
Sec21: Normal 7
Om45: Normal 1
Sec21: Normal 0
Vph1WithPosCtrl: Normal 8
Vph1NoPosCtrl: Normal 5
Spf1: Normal 10
Cdc11: Normal 2
Sec21: Normal 3
Spf1: Normal 5
Om45: Normal 5
Cdc11: Normal 11
Om45: Normal 6
Om45: Normal 11
Cdc11: Normal 0

0.000
0.001
0.002
0.003
0.004

P Value


mitochondrion organization
Without AreaShape | Ordered Gene Set
Marker: Cluster
Om45: Normal 0
0.000
0.002
0.004
0.006
0.00
P Value

mitotic cell cycle

Without AreaShape | Ordered Gene Set

Cluster

Marker:

Cdc11: Normal 1
Om45: Normal 9
Om45: Normal 3
Om45: Normal 7
Om45: Normal 8
Sec21: Normal 0
Cdc11: Normal 11
Sec21: Normal 7
Cdc11: Normal 3
Cdc11: Normal 7
Spf1: Normal 9
Sec21: Normal 8
Sec21: Normal 9
Cdc11: Normal 10
Cdc11: Normal 9
Vph1NoPosCtrl: Normal 1
Vph1WithPosCtrl: Normal 2
Spf1: Normal 7
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Om45: Normal 1
Cdc11: Normal 0
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Om45: Normal 0
Sec21: Normal 6
Cdc11: Normal 2
Spf1: Normal 5
Vph1WithPosCtrl: Normal 3
Vph1NoPosCtrl: Normal 10

0e+00
2e-04
4e-04
6e-04

P Value

mRNA processing

Without AreaShape | Ordered Gene Set

Cluster

Marker:

Om45: Normal 8
Sec21: Normal 8
Om45: Normal 9
Sec21: Normal 7
Om45: Normal 1
Spf1: Normal 7
Cdc11: Normal 8
Cdc11: Normal 0
Sec21: Normal 6
Cdc11: Normal 1
Om45: Normal 3
Sec21: Normal 0
Spf1: Normal 9
Sec21: Normal 9
Cdc11: Normal 9
Om45: Normal 6
Spf1: Normal 8
Vph1NoPosCtrl: Normal 1
Vph1WithPosCtrl: Normal 2
Sec21: Normal 4
Om45: Normal 10
Cdc11: Normal 10
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Om45: Normal 5
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Vph1NoPosCtrl: Normal 10
Vph1WithPosCtrl: Normal 3
Om45: Normal 2

0.000
0.002
0.004
0.006

P Value

nuclear transport

Without AreaShape | Ordered Gene Set

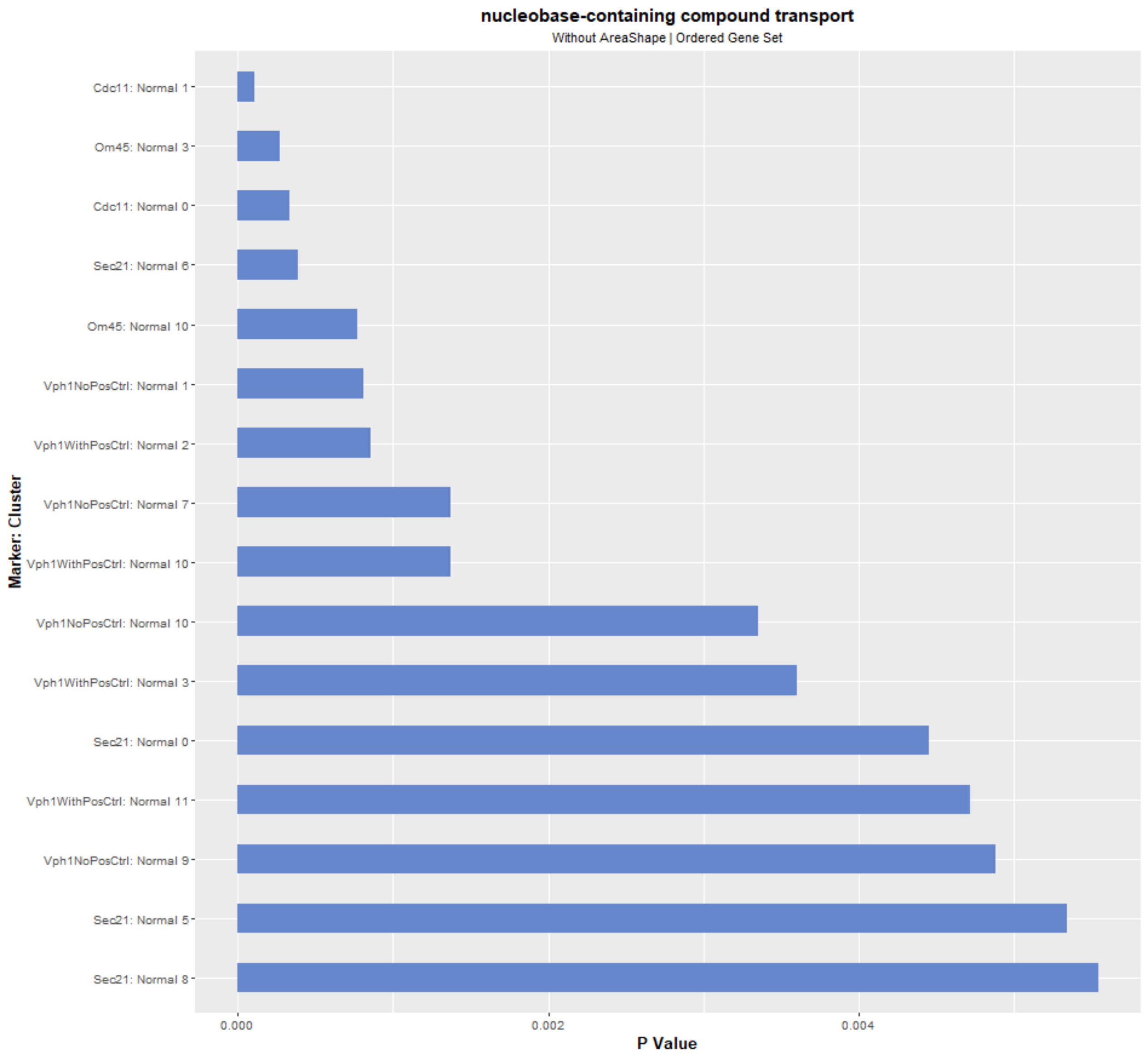
Cluster

Marker:

Om45: Normal 3
Cdc11: Normal 1
Om45: Normal 10
Vph1NoPosCtrl: Normal 10
Vph1WithPosCtrl: Normal 3
Vph1NoPosCtrl: Normal 1
Vph1WithPosCtrl: Normal 2
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Cdc11: Normal 0
Sec21: Normal 6
Cdc11: Normal 10
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Spf1: Normal 9
Sec21: Normal 0
Om45: Normal 9
Om45: Normal 5
Om45: Normal 1
Om45: Normal 8
Sec21: Normal 8
Sec21: Normal 7
Sec21: Normal 5
Spf1: Normal 7

0.0000
0.0025
0.0050
0.0075

P Value


nucleobase-containing compound transport
Without AreaShape | Ordered Gene Set
Cdc11: Normal 1
Om45: Normal 3
Cdc11: Normal 0
Sec21: Normal 6
Om45: Normal 10
Vph1NoPosCtrl: Normal 1
Vph1WithPosCtrl: Normal 2
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Vph1NoPosCtrl: Normal 10
Vph1WithPosCtrl: Normal 3
Sec21: Normal 0
Vph1WithPosCtrl: Normal 11
Vph1NoPosCtrl: Normal 9
Sec21: Normal 5
Sec21: Normal 8
Cluster
Marker:
0.000
0.002
0.004
P Value

nucleus organization

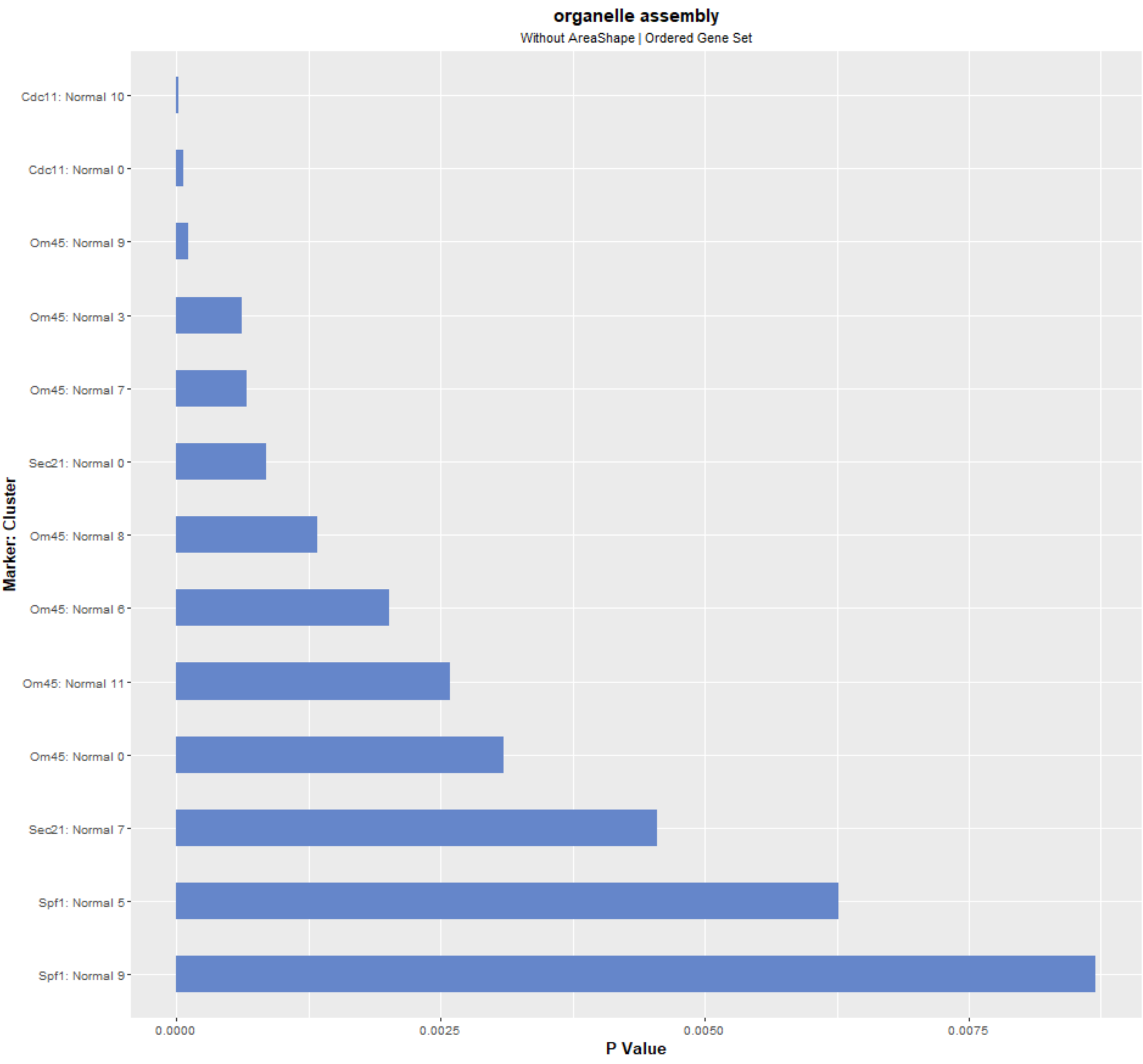
Without AreaShape | Ordered Gene Set

Marker: Cluster

Om45: Normal 10
Vph1NoPosCtrl: Normal 1
Vph1WithPosCtrl: Normal 2
Vph1NoPosCtrl: Normal 10
Sec21: Normal 0
Vph1WithPosCtrl: Normal 3
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Om45: Normal 9
Cdc11: Normal 1
Om45: Normal 3
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Om45: Normal 1
Sec21: Normal 6
Cdc11: Normal 6
Sec21: Normal 8
Cdc11: Normal 10
Om45: Normal 8

0.0000
0.0025
0.0050
0.0075
0.0100

P Value


organelle assembly
Without AreaShape | Ordered Gene Set
Cdc11: Normal 10
Cdc11: Normal 0
Om45: Normal 9
Om45: Normal 3
Om45: Normal 7
Sec21: Normal 0
Om45: Normal 8
Om45: Normal 6
Om45: Normal 11
Om45: Normal 0
Sec21: Normal 7
Spf1: Normal 5
Spf1: Normal 9
Marker: Cluster
0.0000
0.0025
0.0050
0.0075
P Value

organelle fission

Without AreaShape | Ordered Gene Set

Cluster

Marker:

Om45: Normal 9
Cdc11: Normal 1
Om45: Normal 8
Om45: Normal 3
Cdc11: Normal 3
Sec21: Normal 9
Sec21: Normal 0
Cdc11: Normal 7
Cdc11: Normal 11
Sec21: Normal 7
Sec21: Normal 8
Spf1: Normal 9
Om45: Normal 7
Vph1WithPosCtrl: Normal 2
Vph1NoPosCtrl: Normal 1
Vph1NoPosCtrl: Normal 10
Cdc11: Normal 9
Vph1WithPosCtrl: Normal 3
Om45: Normal 1
Spf1: Normal 5
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Cdc11: Normal 10
Cdc11: Normal 0

0.000
0.002
0.004
0.006

P Value

organelle fusion

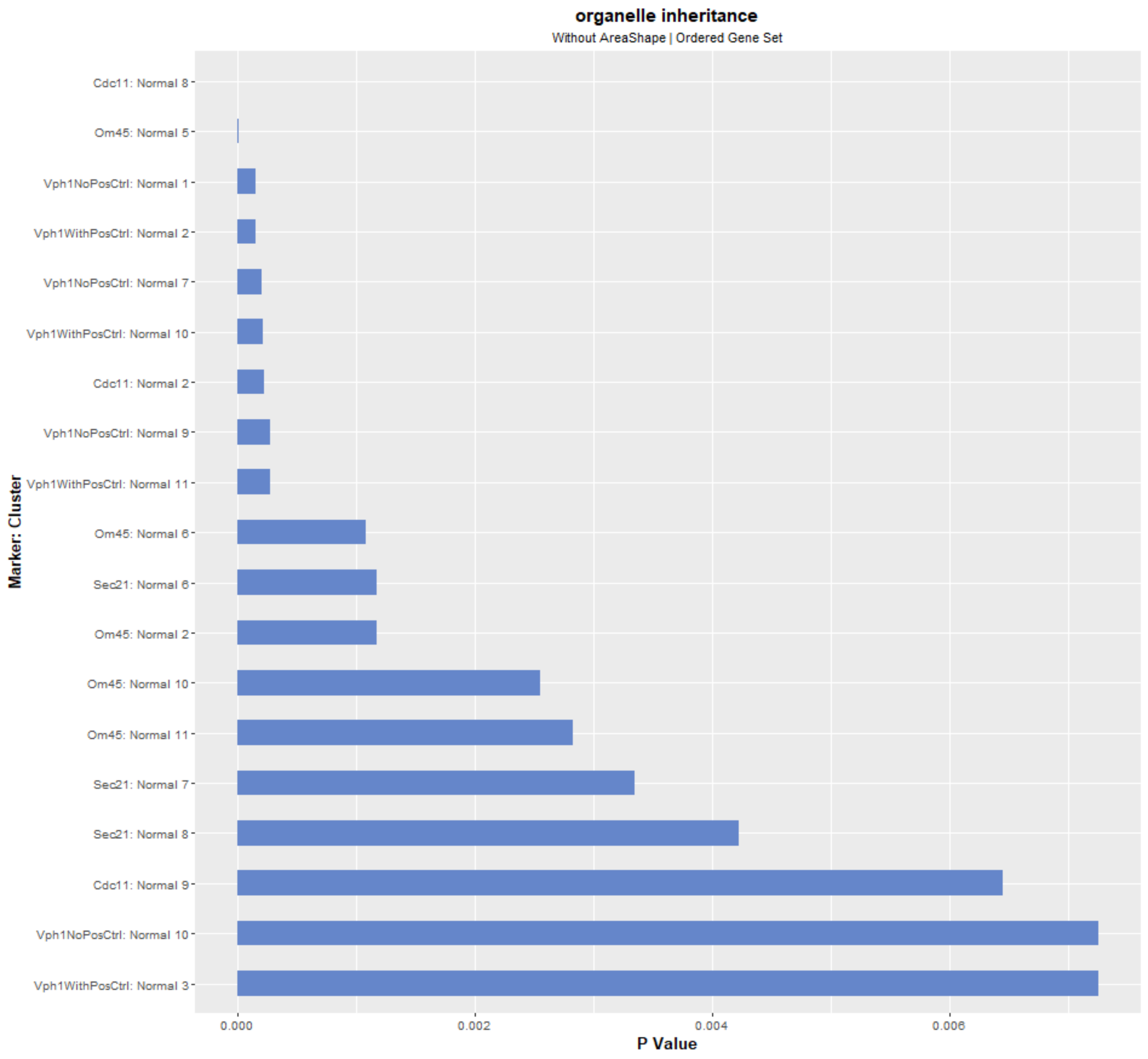
Without AreaShape | Ordered Gene Set

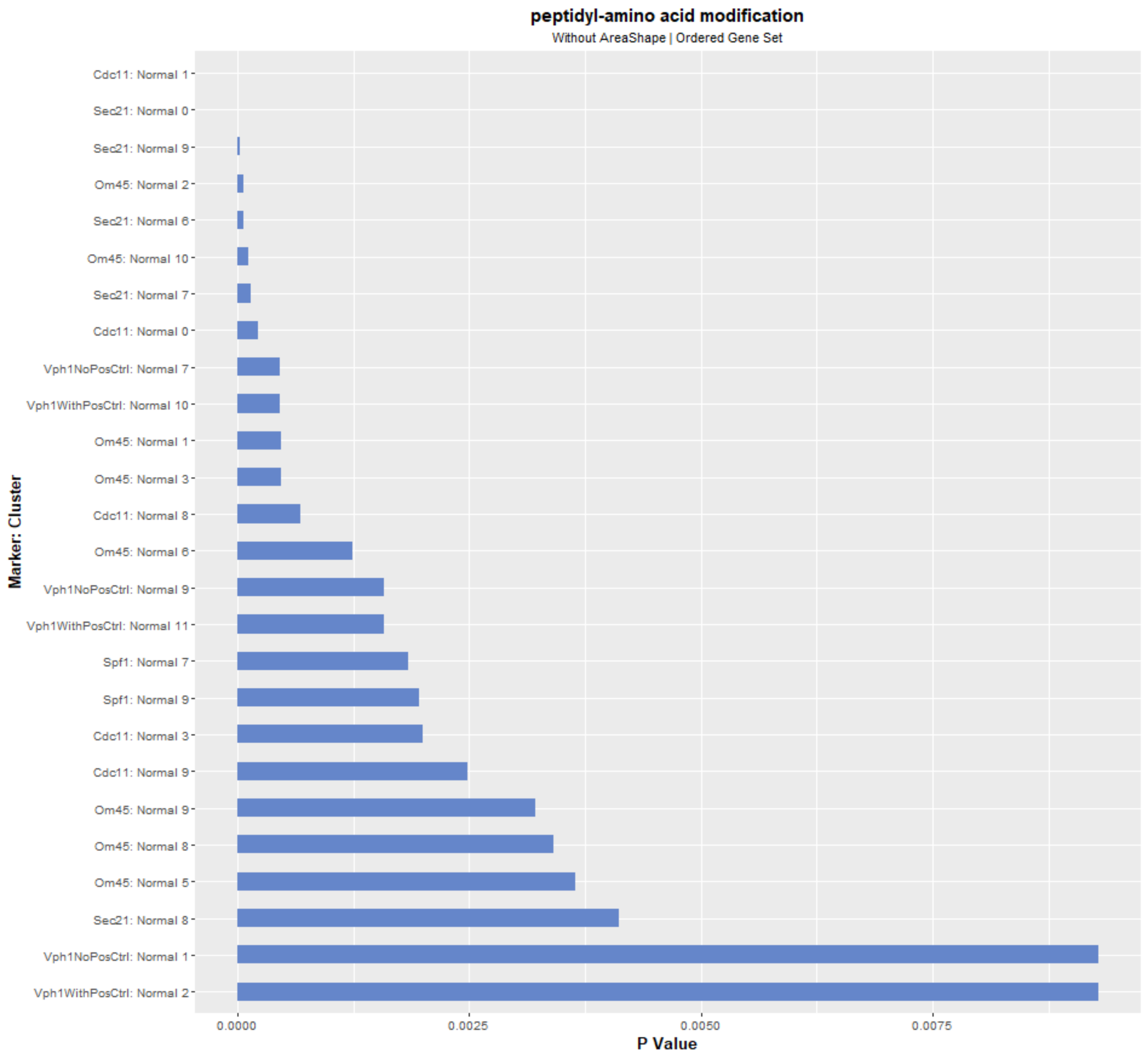
Cluster Marker:

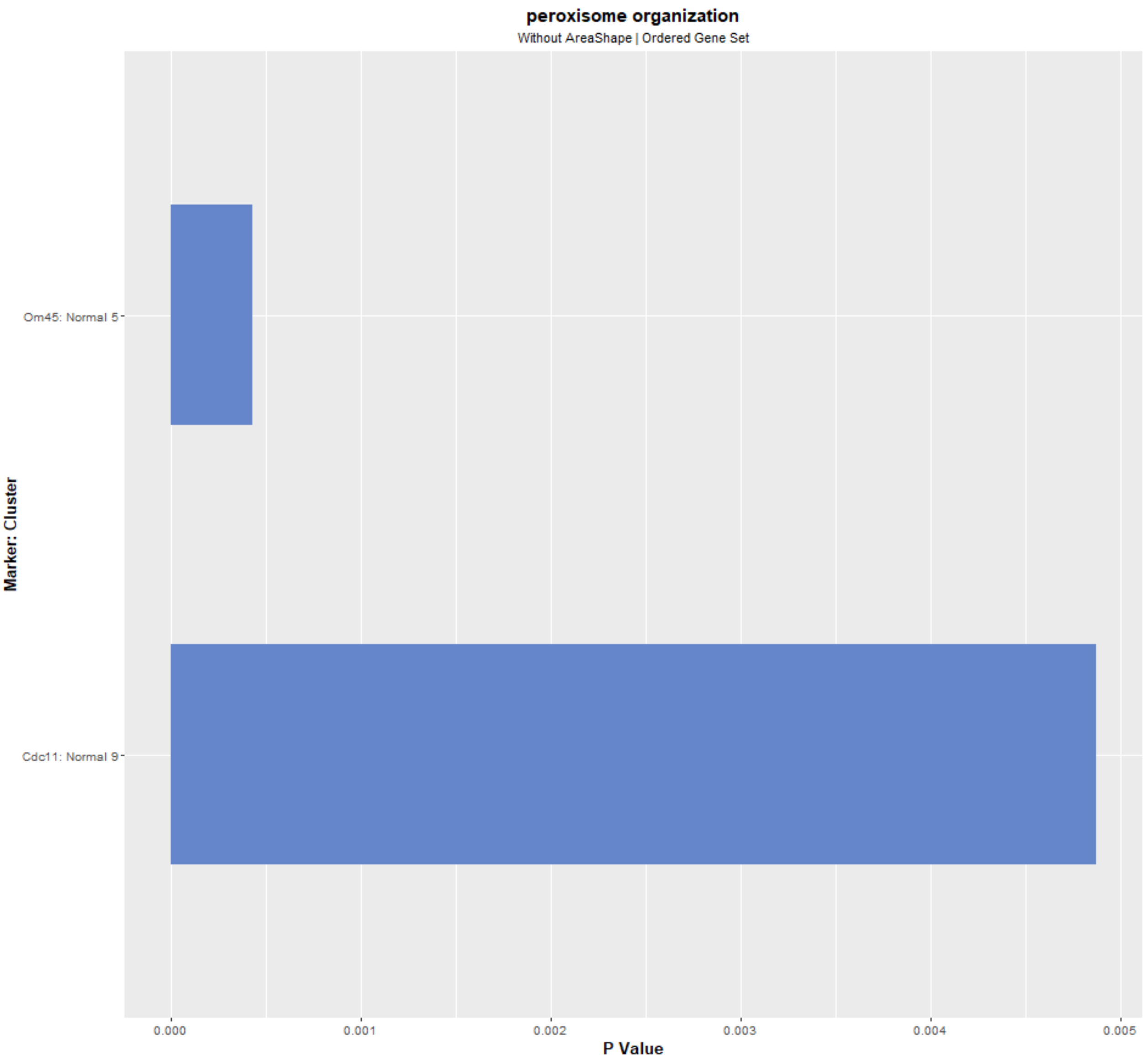
- Cdc11: Normal 8
- Sec21: Normal 8
- Spf1: Normal 7
- Om45: Normal 10
- Vph1NoPosCtrl: Normal 1
- Vph1WithPosCtrl: Normal 2
- Vph1NoPosCtrl: Normal 10
- Vph1WithPosCtrl: Normal 3
- Spf1: Normal 8
- Vph1NoPosCtrl: Normal 7
- Vph1WithPosCtrl: Normal 10
- Sec21: Normal 6
- Om45: Normal 1
- Sec21: Normal 2
- Spf1: Normal 10
- Sec21: Normal 7
- Om45: Normal 2
- Sec21: Normal 0
- Vph1WithPosCtrl: Normal 11
- Vph1NoPosCtrl: Normal 9
- Vph1WithPosCtrl: Normal 8
- Vph1NoPosCtrl: Normal 5
- Cdc11: Normal 2
- Sec21: Normal 3
- Cdc11: Normal 11
- Om45: Normal 5
- Spf1: Normal 5
- Om45: Normal 6
- Cdc11: Normal 0
- Om45: Normal 11

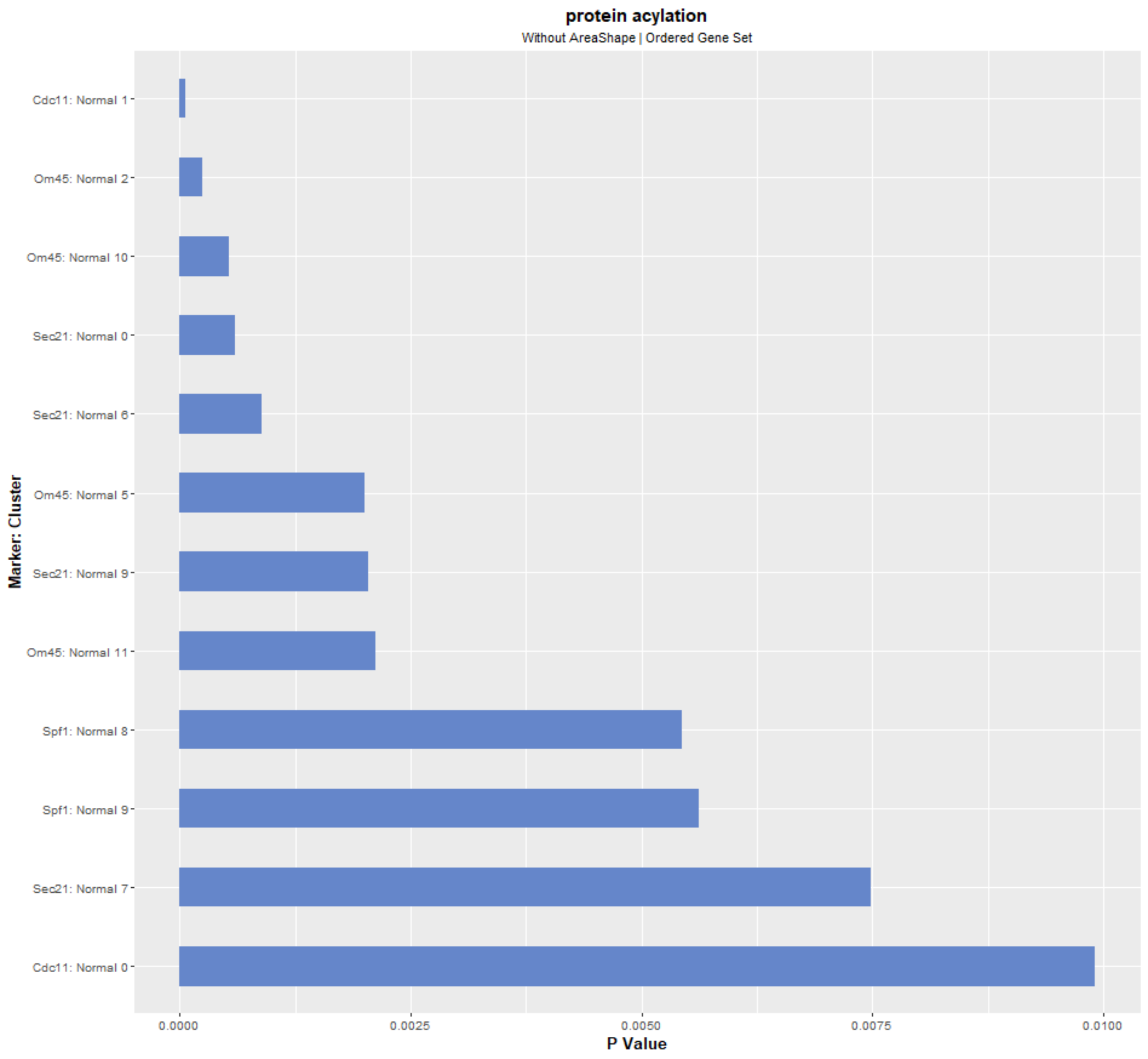
0.000 0.002 0.004 0.006

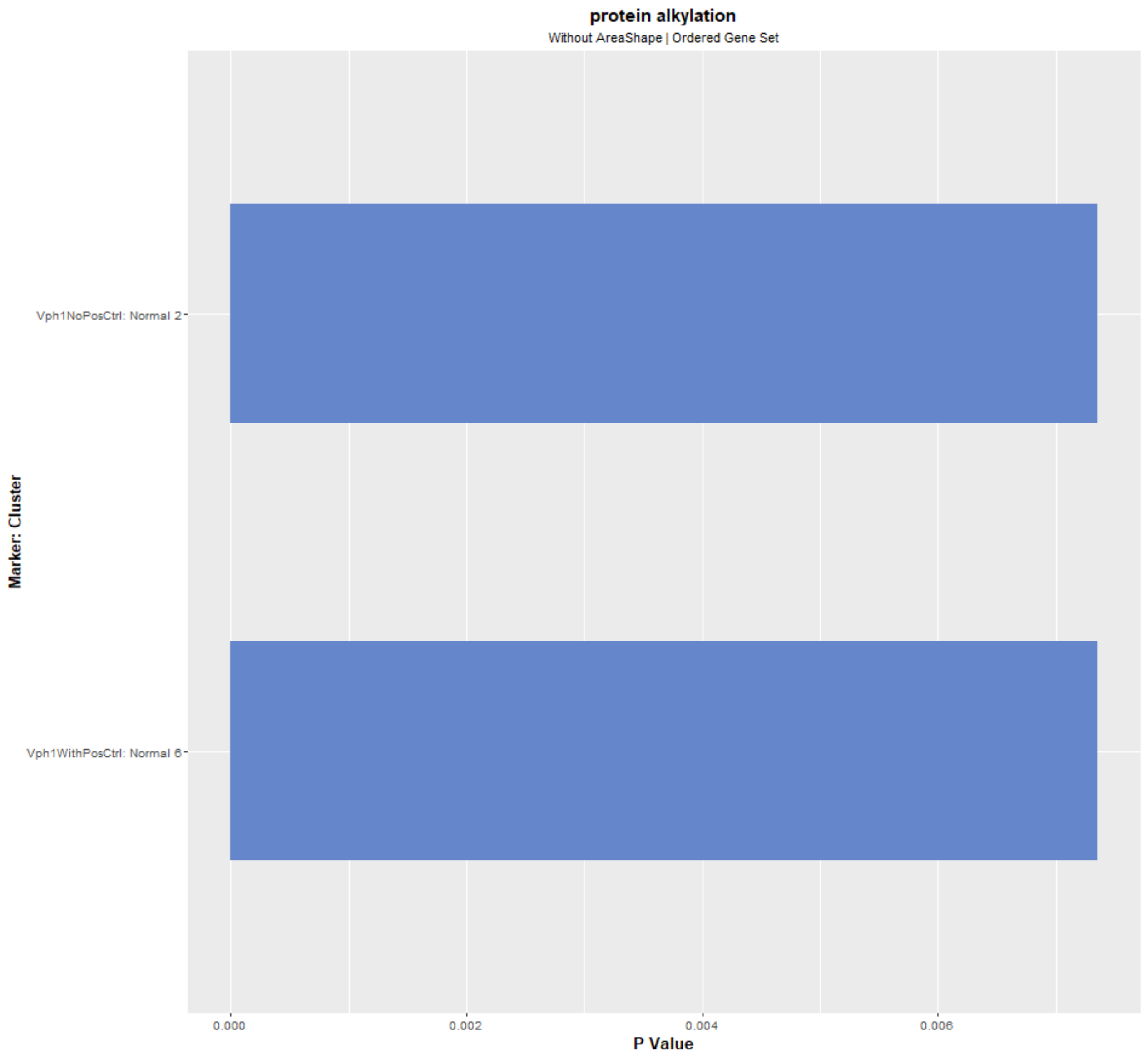
P Value


organelle inheritance
Without AreaShape | Ordered Gene Set
Marker: Cluster
Cdc11: Normal 8
Om45: Normal 5
Vph1NoPosCtrl: Normal 1
Vph1WithPosCtrl: Normal 2
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Cdc11: Normal 2
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Om45: Normal 6
Sec21: Normal 6
Om45: Normal 2
Om45: Normal 10
Om45: Normal 11
Sec21: Normal 7
Sec21: Normal 8
Cdc11: Normal 9
Vph1NoPosCtrl: Normal 10
Vph1WithPosCtrl: Normal 3
0.000
0.002
0.004
0.006
P Value


peptidyl-amino acid modification
Without AreaShape | Ordered Gene Set
Cdc11: Normal 1
Sec21: Normal 0
Sec21: Normal 9
Om45: Normal 2
Sec21: Normal 6
Om45: Normal 10
Sec21: Normal 7
Cdc11: Normal 0
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Om45: Normal 1
Om45: Normal 3
Cdc11: Normal 8
Om45: Normal 6
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Spf1: Normal 7
Spf1: Normal 9
Cdc11: Normal 3
Cdc11: Normal 9
Om45: Normal 9
Om45: Normal 8
Om45: Normal 5
Sec21: Normal 8
Vph1NoPosCtrl: Normal 1
Vph1WithPosCtrl: Normal 2
Cluster
Marker:
0.0000
0.0025
0.0050
0.0075
P Value


peroxisome organization
Without AreaShape | Ordered Gene Set
Marker: Cluster
Om45: Normal 5
Cdc11: Normal 9
0.000
0.001
0.002
0.003
0.004
0.005
P Value


protein acylation
Without AreaShape | Ordered Gene Set
Cdc11: Normal 1
Om45: Normal 2
Om45: Normal 10
Sec21: Normal 0
Sec21: Normal 6
Om45: Normal 5
Sec21: Normal 9
Om45: Normal 11
Spf1: Normal 8
Spf1: Normal 9
Sec21: Normal 7
Cdc11: Normal 0
Cluster
Marker:
0.0000
0.0025
0.0050
0.0075
0.0100
P Value


protein alkylation
Without AreaShape | Ordered Gene Set
Vph1NoPosCtrl: Normal 2
Vph1WithPosCtrl: Normal 6
Marker: Cluster
0.000
0.002
0.004
0.006
P Value

protein complex biogenesis

Without AreaShape | Ordered Gene Set

Cluster

Marker:

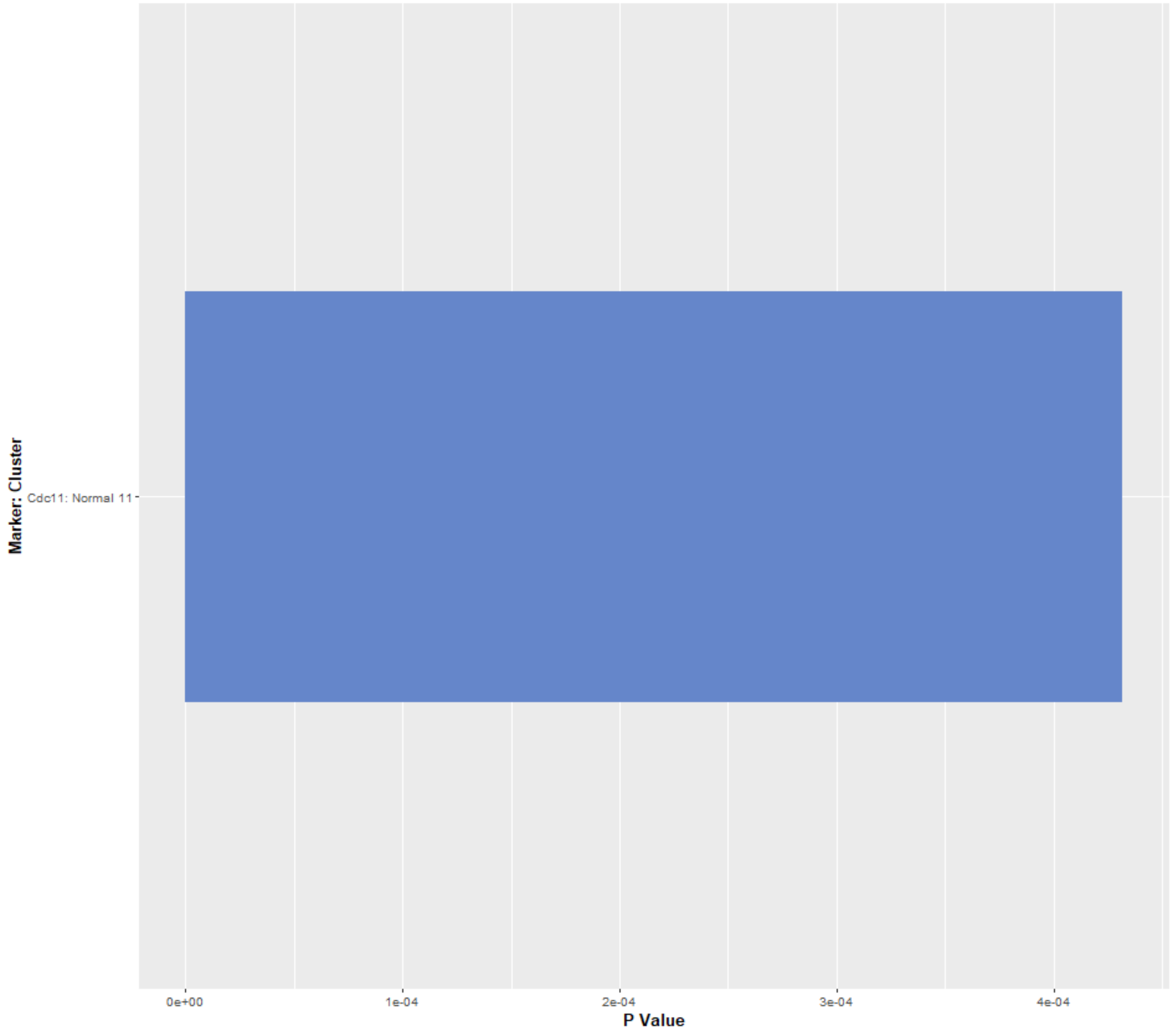
Sec21: Normal 0
Om45: Normal 9
Om45: Normal 8
Spf1: Normal 7
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Sec21: Normal 9
Sec21: Normal 7
Om45: Normal 1
Om45: Normal 6
Vph1NoPosCtrl: Normal 1
Vph1WithPosCtrl: Normal 2
Cdc11: Normal 8
Spf1: Normal 10
Cdc11: Normal 1
Om45: Normal 3
Cdc11: Normal 0
Vph1NoPosCtrl: Normal 10
Vph1WithPosCtrl: Normal 3
Cdc11: Normal 3
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Sec21: Normal 6
Sec21: Normal 8
Om45: Normal 0
Spf1: Normal 8
Cdc11: Normal 7
Vph1NoPosCtrl: Normal 4
Vph1WithPosCtrl: Normal 9
Om45: Normal 7

0e+00
1e-04
2e-04
3e-04
4e-04

P Value

protein dephosphorylation

Without AreaShape | Ordered Gene Set



protein glycosylation

Without AreaShape | Ordered Gene Set

Marker: Cluster

Cdc11: Normal 2

Cdc11: Normal 4

Vph1WithPosCtrl: Normal 0

0.0000

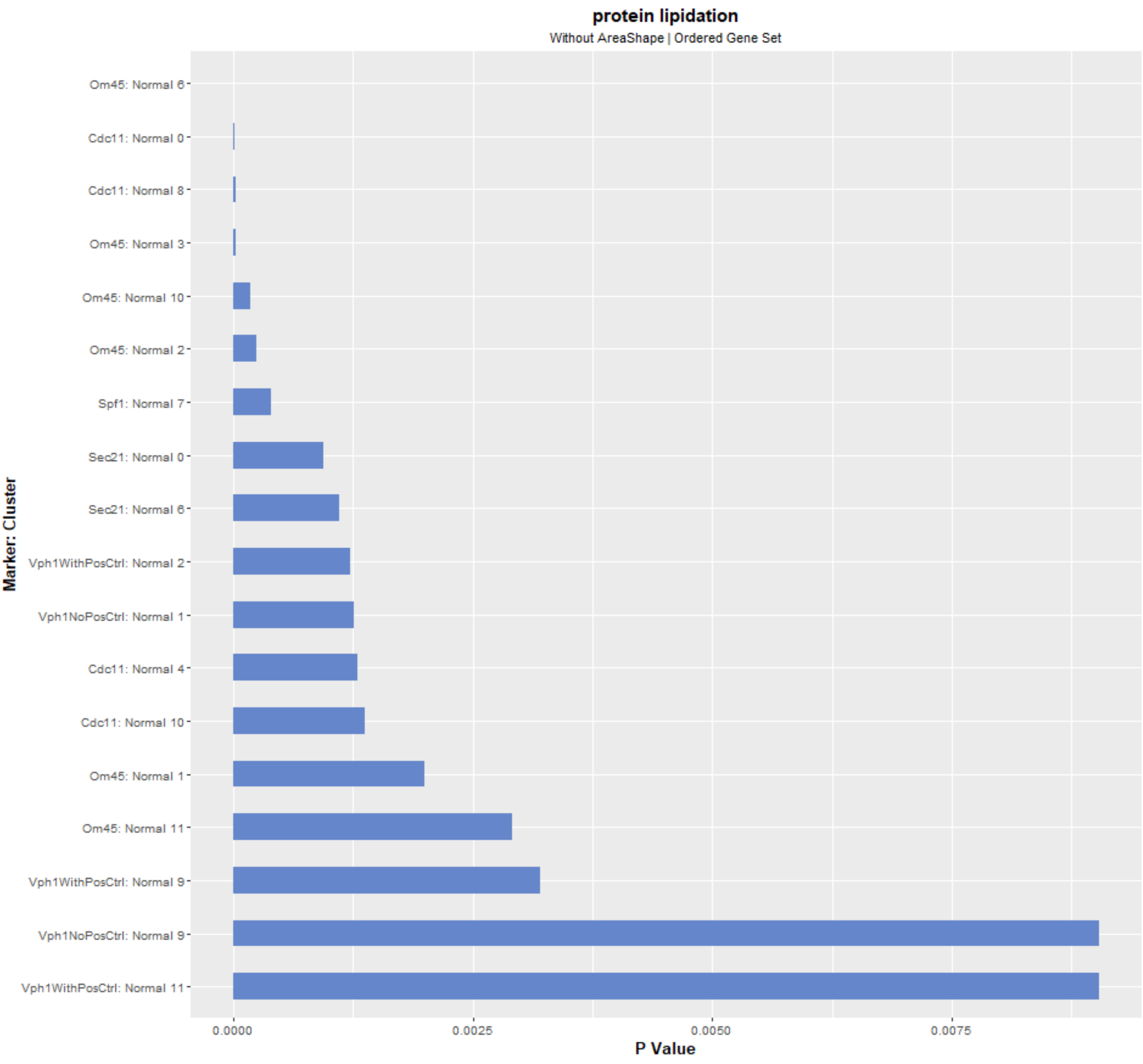
0.0025

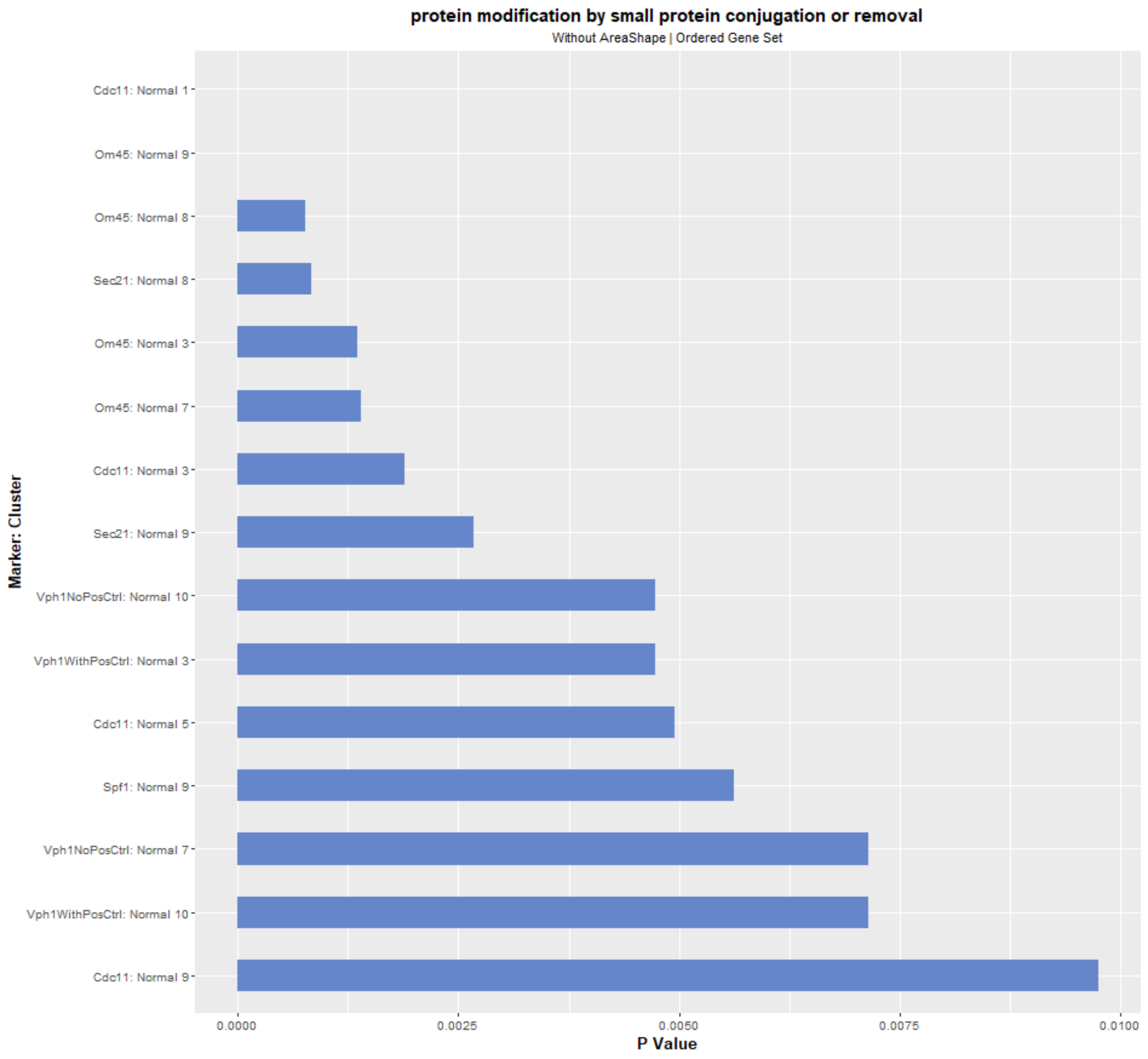
0.0050

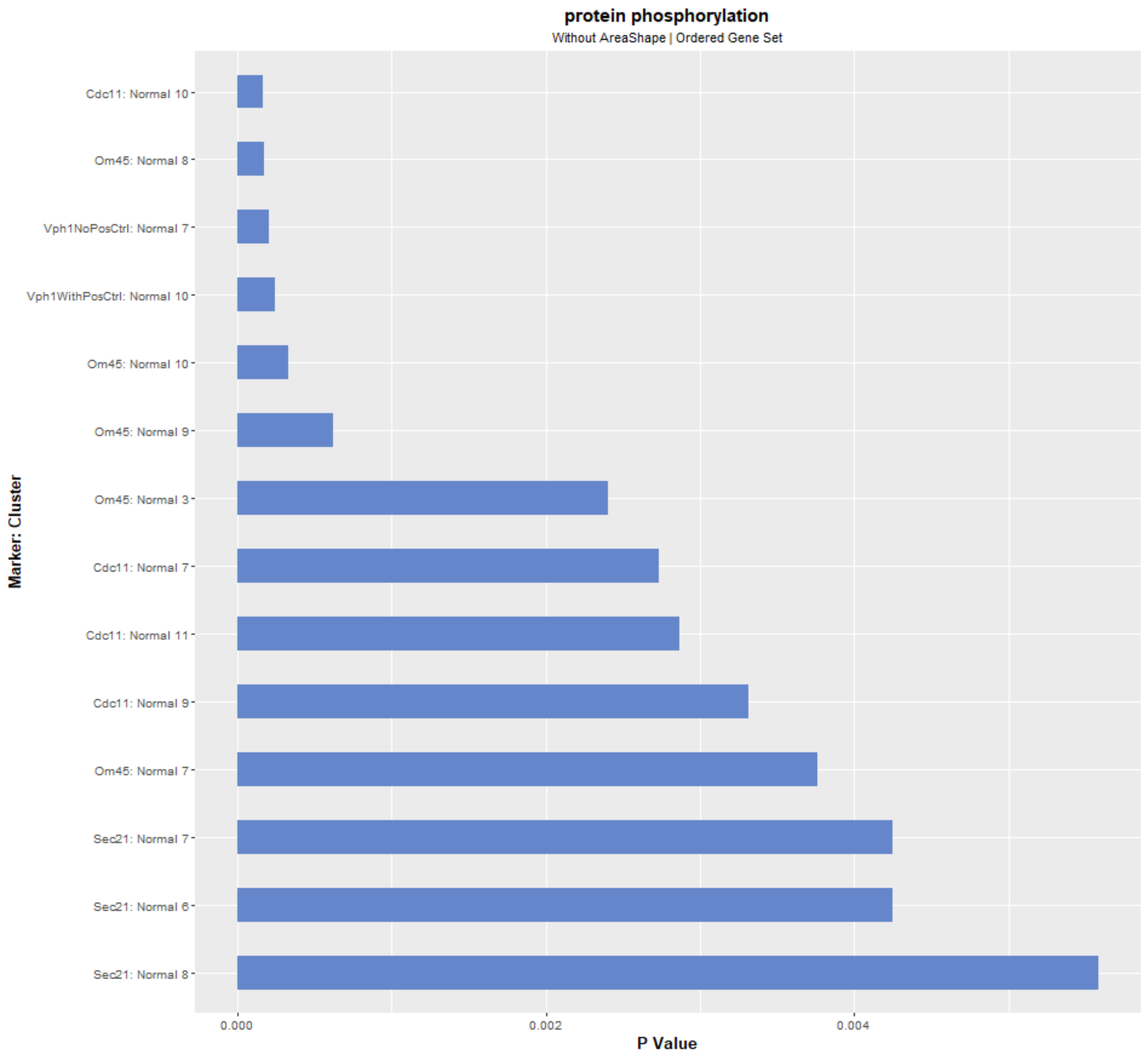
0.0075

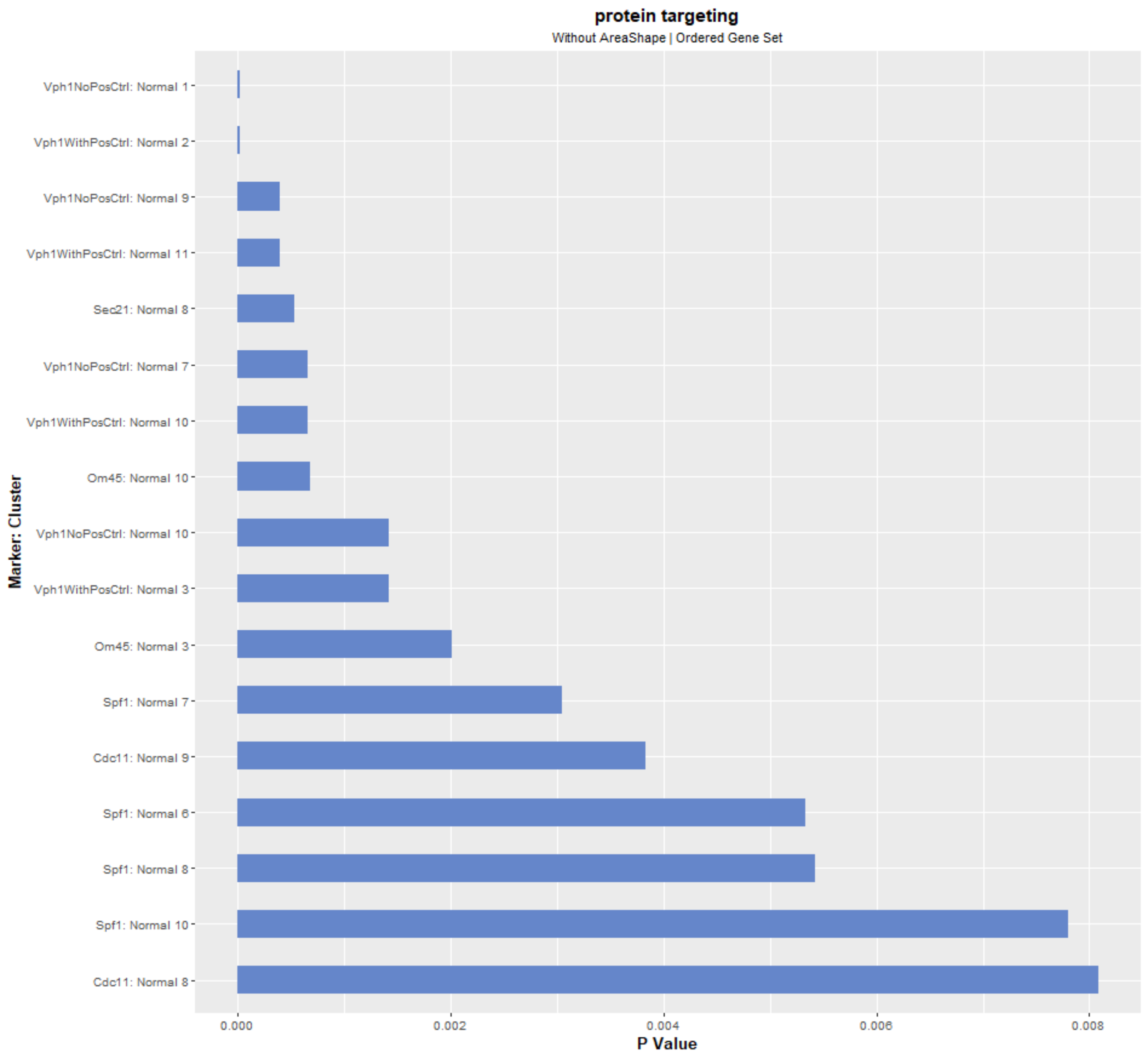
0.0100

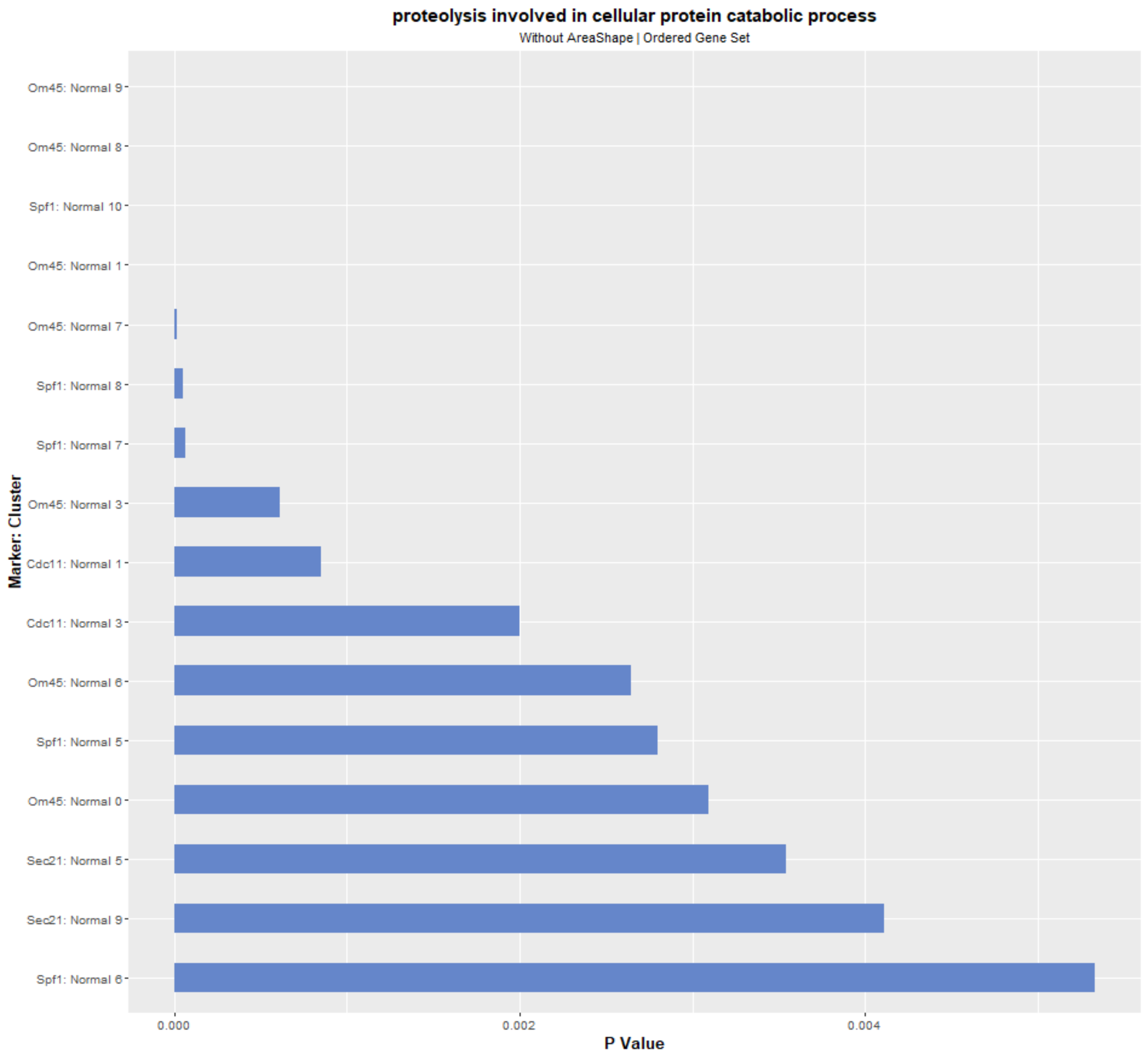
P Value


protein lipidation
Without AreaShape | Ordered Gene Set
Om45: Normal 6
Cdc11: Normal 0
Cdc11: Normal 8
Om45: Normal 3
Om45: Normal 10
Om45: Normal 2
Spf1: Normal 7
Sec21: Normal 0
Sec21: Normal 6
Vph1WithPosCtrl: Normal 2
Vph1NoPosCtrl: Normal 1
Cdc11: Normal 4
Cdc11: Normal 10
Om45: Normal 1
Om45: Normal 11
Vph1WithPosCtrl: Normal 9
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Cluster
Marker:
0.0000
0.0025
0.0050
0.0075
P Value


protein modification by small protein conjugation or removal
Without AreaShape | Ordered Gene Set
Marker: Cluster
Cdc11: Normal 1
Om45: Normal 9
Om45: Normal 8
Sec21: Normal 8
Om45: Normal 3
Om45: Normal 7
Cdc11: Normal 3
Sec21: Normal 9
Vph1NoPosCtrl: Normal 10
Vph1WithPosCtrl: Normal 3
Cdc11: Normal 5
Spf1: Normal 9
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Cdc11: Normal 9
0.0000
0.0025
0.0050
0.0075
0.0100
P Value


protein phosphorylation
Without AreaShape | Ordered Gene Set
Cluster
Marker:
Cdc11: Normal 10
Om45: Normal 8
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Om45: Normal 10
Om45: Normal 9
Om45: Normal 3
Cdc11: Normal 7
Cdc11: Normal 11
Cdc11: Normal 9
Om45: Normal 7
Sec21: Normal 7
Sec21: Normal 6
Sec21: Normal 8
0.000
0.002
0.004
P Value


protein targeting
Without AreaShape | Ordered Gene Set
Vph1NoPosCtrl: Normal 1
Vph1WithPosCtrl: Normal 2
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Sec21: Normal 8
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Om45: Normal 10
Vph1NoPosCtrl: Normal 10
Vph1WithPosCtrl: Normal 3
Om45: Normal 3
Spf1: Normal 7
Cdc11: Normal 9
Spf1: Normal 6
Spf1: Normal 8
Spf1: Normal 10
Cdc11: Normal 8
Marker: Cluster
0.000
0.002
0.004
0.006
0.008
P Value


proteolysis involved in cellular protein catabolic process
Without AreaShape | Ordered Gene Set
Cluster
Marker:
Om45: Normal 9
Om45: Normal 8
Spf1: Normal 10
Om45: Normal 1
Om45: Normal 7
Spf1: Normal 8
Spf1: Normal 7
Om45: Normal 3
Cdc11: Normal 1
Cdc11: Normal 3
Om45: Normal 6
Spf1: Normal 5
Om45: Normal 0
Sec21: Normal 5
Sec21: Normal 9
Spf1: Normal 6
0.000
0.002
0.004
P Value

regulation of cell cycle

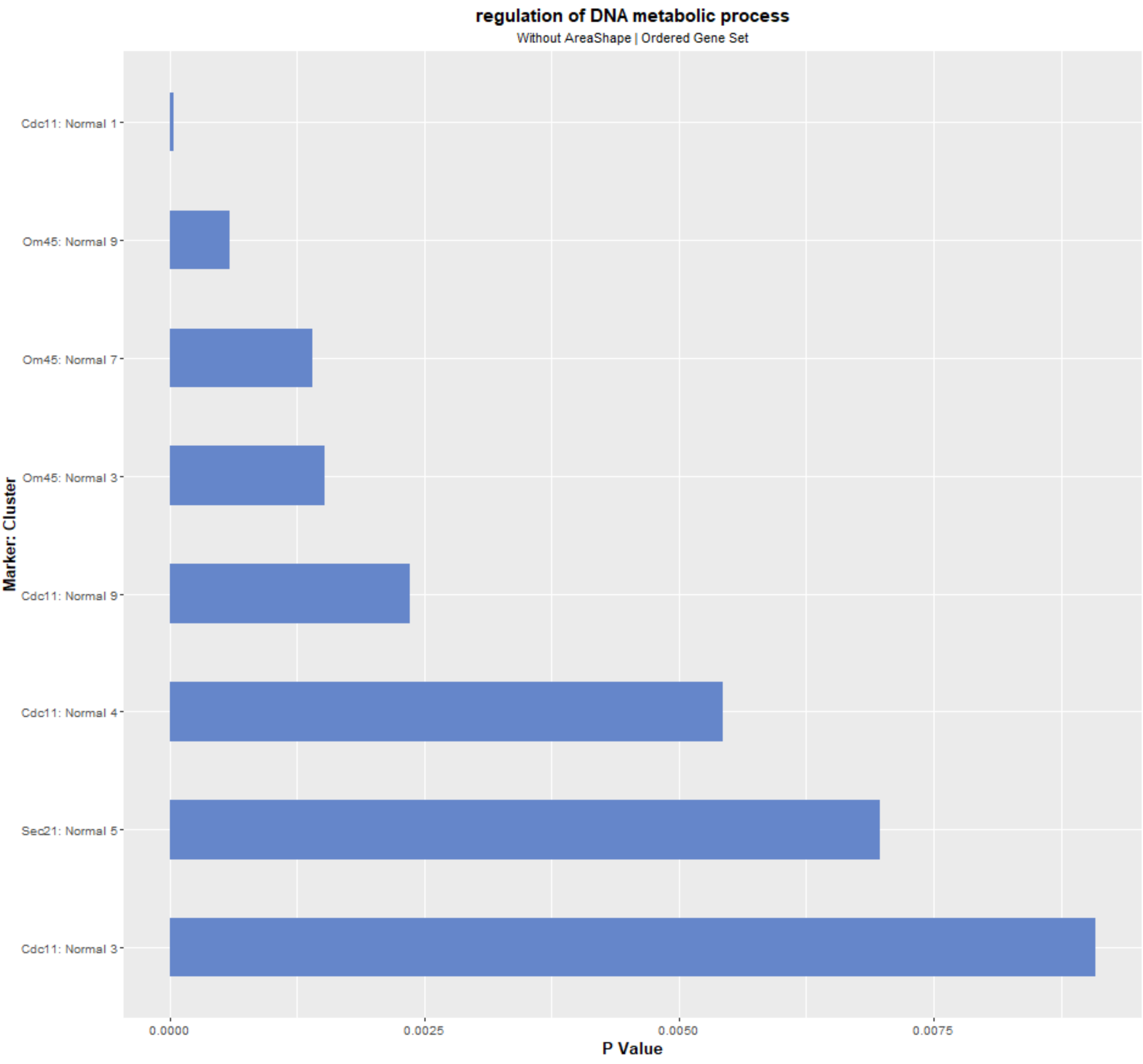
Without AreaShape | Ordered Gene Set

Om45: Normal 8
Cdc11: Normal 7
Om45: Normal 9
Sec21: Normal 0
Sec21: Normal 7
Cdc11: Normal 11
Spf1: Normal 9
Cdc11: Normal 1
Cdc11: Normal 9
Sec21: Normal 9
Om45: Normal 3
Cdc11: Normal 3
Sec21: Normal 8
Cdc11: Normal 0
Spf1: Normal 7
Vph1NoPosCtrl: Normal 1
Sec21: Normal 6
Vph1WithPosCtrl: Normal 2
Om45: Normal 7
Spf1: Normal 8
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Om45: Normal 1
Om45: Normal 6
Cdc11: Normal 10

Marker: Cluster

0.0000
0.0025
0.0050
0.0075

P Value


regulation of DNA metabolic process
Without AreaShape | Ordered Gene Set
Cluster
Marker:
Cdc11: Normal 1
Om45: Normal 9
Om45: Normal 7
Om45: Normal 3
Cdc11: Normal 9
Cdc11: Normal 4
Sec21: Normal 5
Cdc11: Normal 3
0.0000
0.0025
0.0050
0.0075
P Value

regulation of organelle organization

Without AreaShape | Ordered Gene Set

Cluster

Marker:

Om45: Normal 8
Cdc11: Normal 7
Sec21: Normal 0
Om45: Normal 9
Vph1NoPosCtrl: Normal 1
Vph1WithPosCtrl: Normal 2
Sec21: Normal 9
Sec21: Normal 7
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Cdc11: Normal 11
Om45: Normal 3
Vph1NoPosCtrl: Normal 10
Vph1WithPosCtrl: Normal 3
Spf1: Normal 9
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Cdc11: Normal 3
Om45: Normal 1
Cdc11: Normal 1
Sec21: Normal 8
Om45: Normal 6
Spf1: Normal 7
Cdc11: Normal 8
Sec21: Normal 6
Om45: Normal 0
Om45: Normal 5
Cdc11: Normal 10
Cdc11: Normal 0
Spf1: Normal 8

0.0000
0.0025
0.0050
0.0075

P Value

regulation of protein modification process

Without AreaShape | Ordered Gene Set

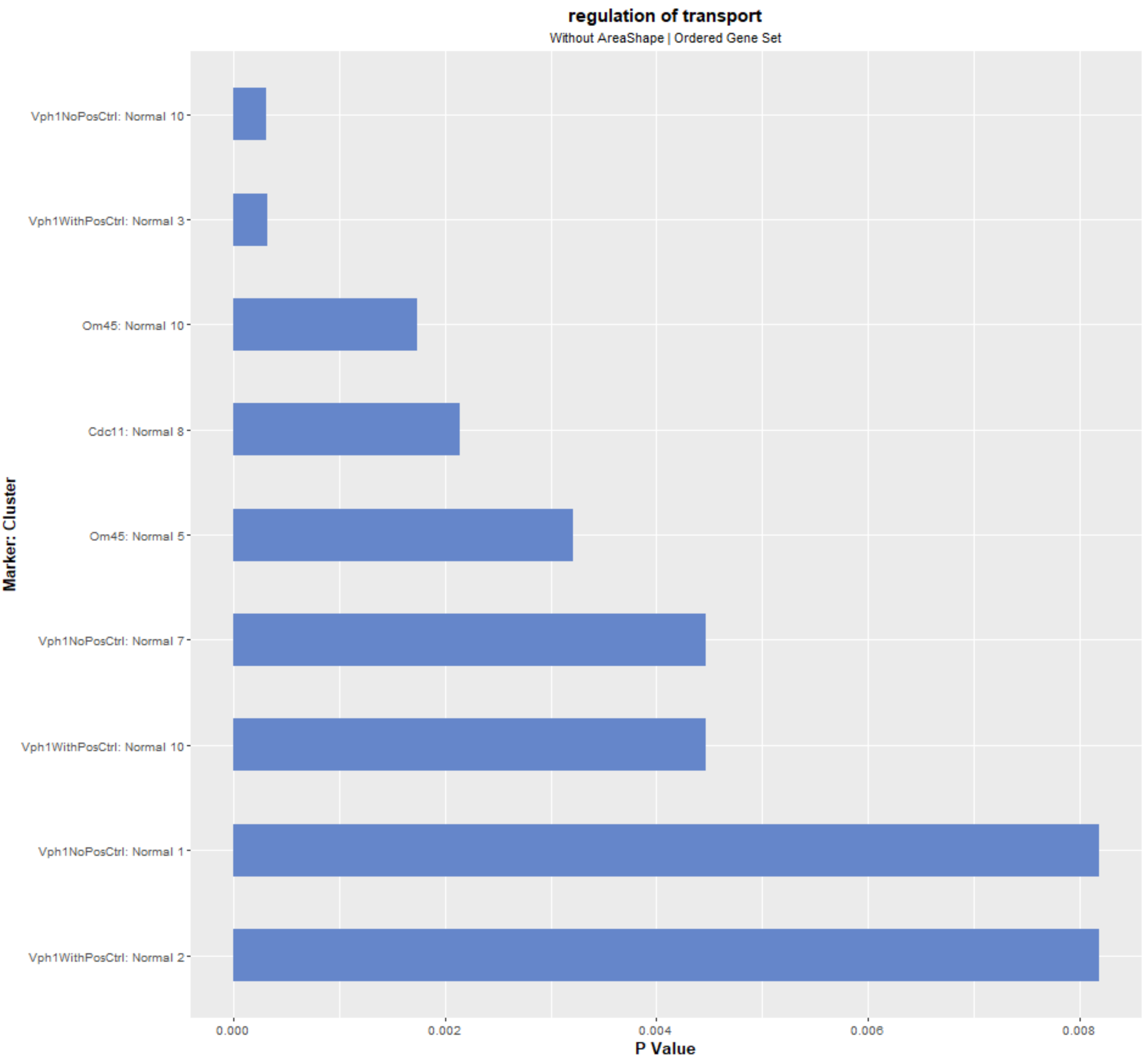
Cluster

Marker:

Cdc11: Normal 1
Sec21: Normal 7
Om45: Normal 9
Om45: Normal 7
Sec21: Normal 8
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Spf1: Normal 9
Cdc11: Normal 4
Cdc11: Normal 9
Spf1: Normal 5
Sec21: Normal 0
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Cdc11: Normal 3
Om45: Normal 8

0.000
0.002
0.004
0.006
0.008

P Value


regulation of transport
Without AreaShape | Ordered Gene Set
Marker: Cluster
Vph1NoPosCtrl: Normal 10
Vph1WithPosCtrl: Normal 3
Om45: Normal 10
Cdc11: Normal 8
Om45: Normal 5
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Vph1NoPosCtrl: Normal 1
Vph1WithPosCtrl: Normal 2
0.000
0.002
0.004
0.006
0.008
P Value

response to heat

Without AreaShape | Ordered Gene Set

Marker: Cluster

Cdc11: Normal 5

0.000 0.001 0.002 0.003 0.004 0.005

P Value

ribosomal subunit export from nucleus

Without AreaShape | Ordered Gene Set

Cluster

Marker:

Spf1: Normal 9
Spf1: Normal 7
Om45: Normal 3
Om45: Normal 10
Cdc11: Normal 0
Sec21: Normal 6
Om45: Normal 8
Om45: Normal 2
Sec21: Normal 0
Cdc11: Normal 10
Om45: Normal 1
Om45: Normal 6
Cdc11: Normal 1
Om45: Normal 9

0.000
0.002
0.004
0.006
0.008

P Value

RNA catabolic process

Without AreaShape | Ordered Gene Set

Marker: Cluster

Spf1: Normal 7
Cdc11: Normal 1
Om45: Normal 3
Cdc11: Normal 3
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Cdc11: Normal 9
Cdc11: Normal 4

0.000
0.001
0.002
0.003

P Value

RNA modification

Without AreaShape | Ordered Gene Set

Marker: Cluster

Cdc11: Normal 4

0.0000

0.0025

0.0050

0.0075

P Value

RNA splicing

Without AreaShape | Ordered Gene Set

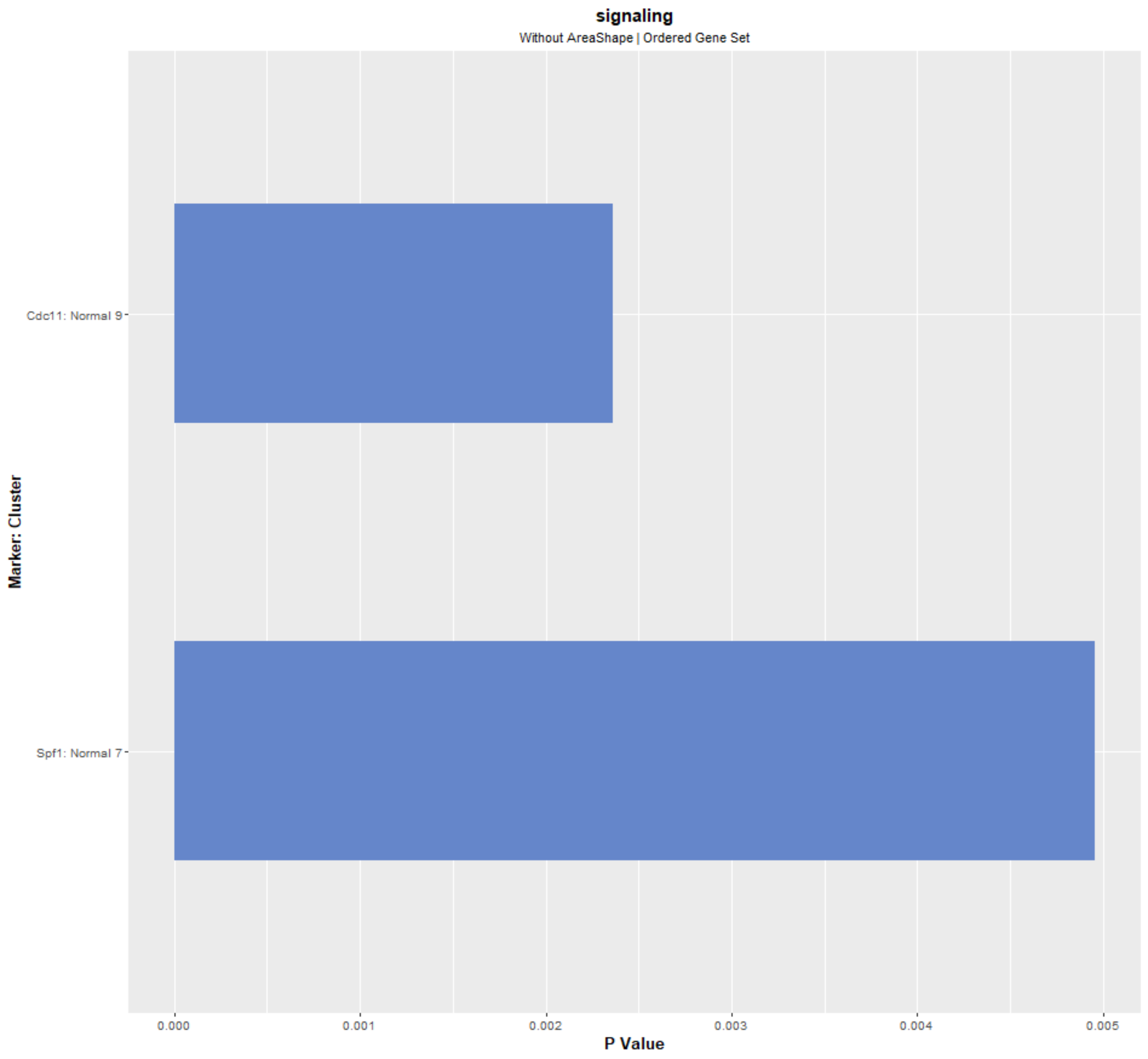
Cluster

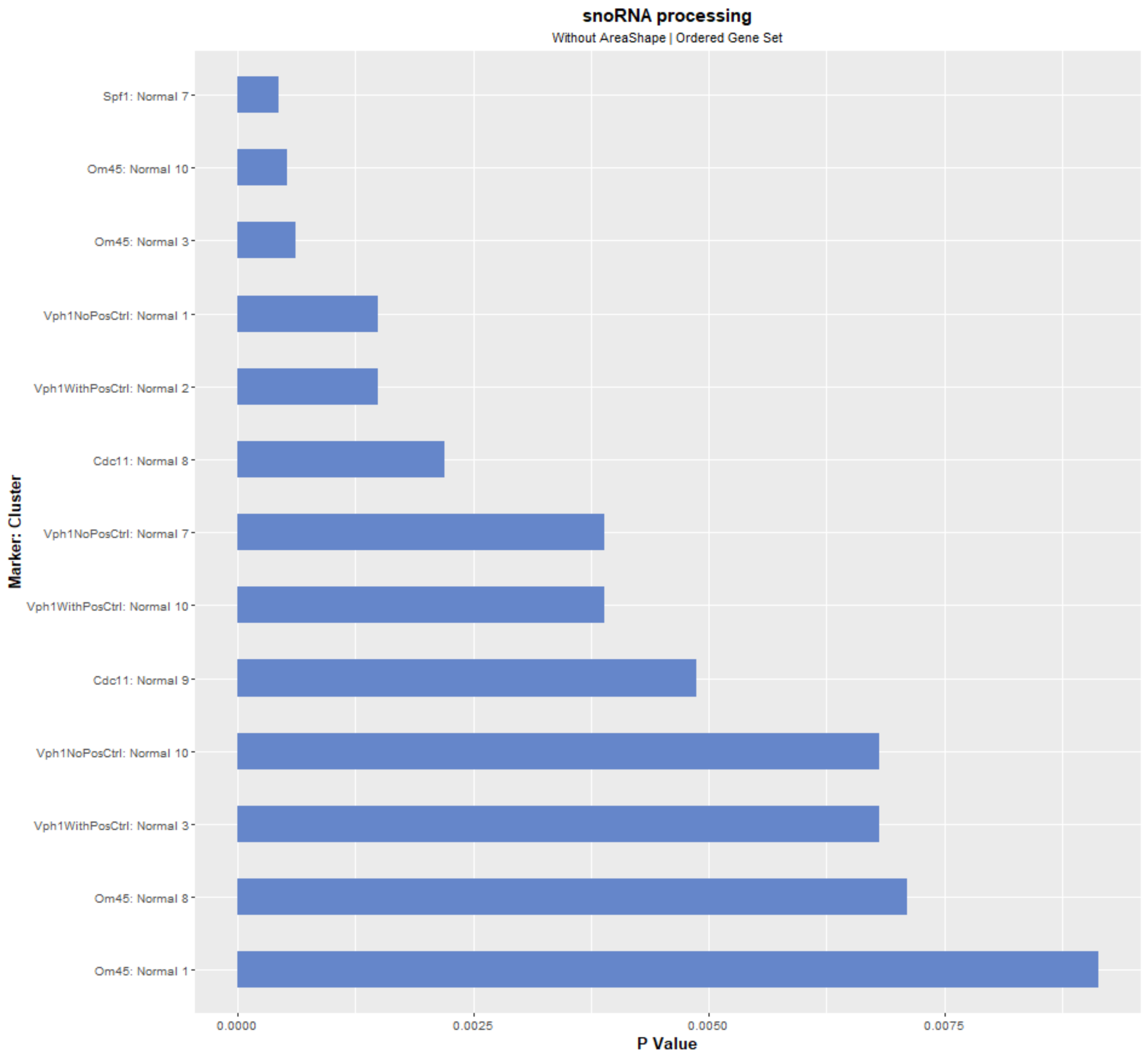
Marker:

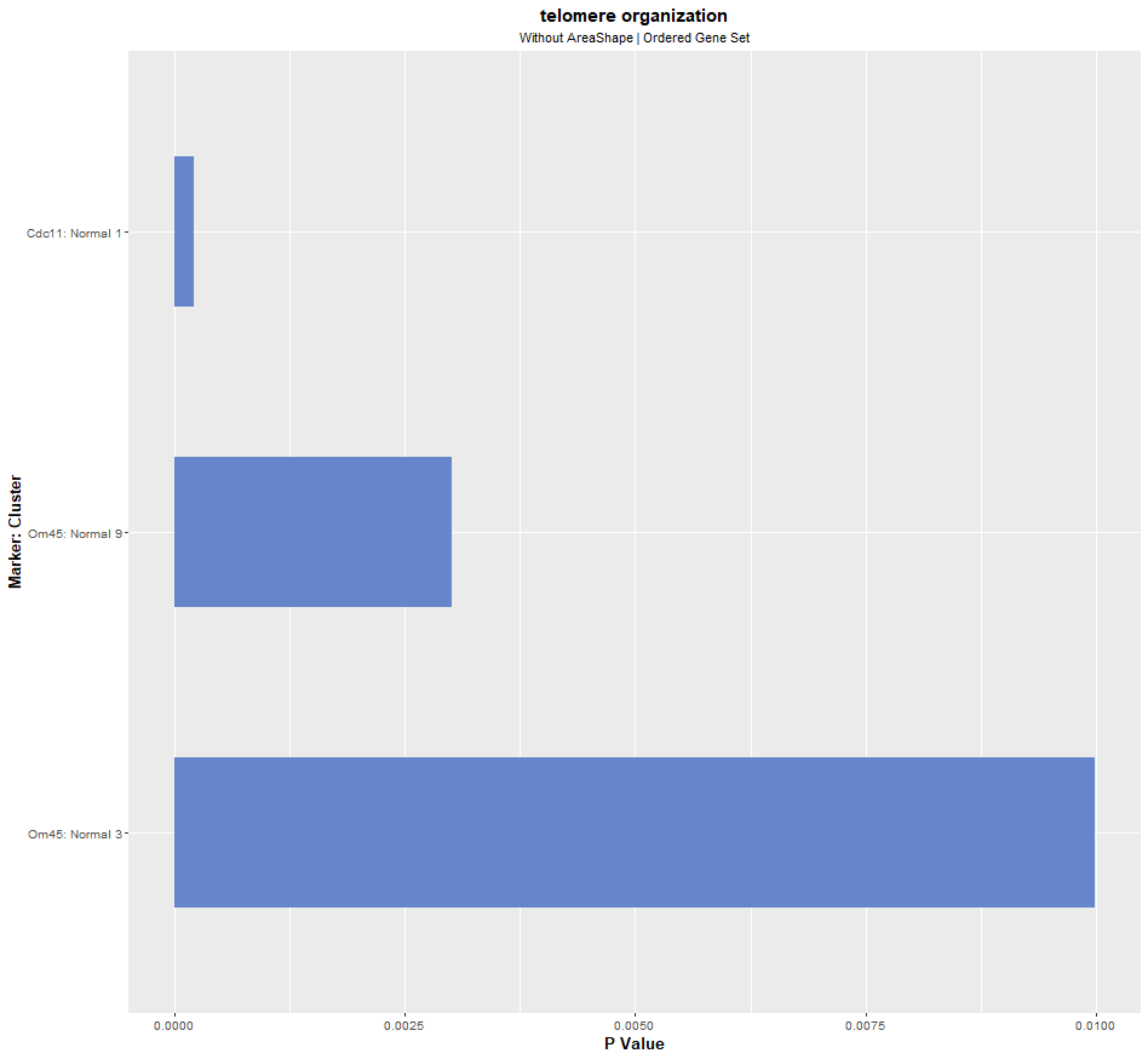
Om45: Normal 8
Sec21: Normal 8
Om45: Normal 9
Sec21: Normal 7
Om45: Normal 1
Spf1: Normal 9
Cdc11: Normal 1
Spf1: Normal 7
Cdc11: Normal 0
Cdc11: Normal 8
Cdc11: Normal 9
Sec21: Normal 9
Sec21: Normal 6
Om45: Normal 3
Sec21: Normal 0
Om45: Normal 6
Spf1: Normal 8
Sec21: Normal 4
Vph1NoPosCtrl: Normal 1
Vph1WithPosCtrl: Normal 2
Om45: Normal 0

0.000
0.001
0.002
0.003
0.004

P Value


signaling
Without AreaShape | Ordered Gene Set
Cdc11: Normal 9
Spf1: Normal 7
Cluster
Marker:
0.000
0.001
0.002
0.003
0.004
0.005
P Value


snoRNA processing
Without AreaShape | Ordered Gene Set
Marker: Cluster
Spf1: Normal 7
Om45: Normal 10
Om45: Normal 3
Vph1NoPosCtrl: Normal 1
Vph1WithPosCtrl: Normal 2
Cdc11: Normal 8
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Cdc11: Normal 9
Vph1NoPosCtrl: Normal 10
Vph1WithPosCtrl: Normal 3
Om45: Normal 8
Om45: Normal 1
0.0000
0.0025
0.0050
0.0075
P Value


telomere organization
Without AreaShape | Ordered Gene Set
Marker: Cluster
Cdc11: Normal 1
Om45: Normal 9
Om45: Normal 3
0.0000
0.0025
0.0050
0.0075
0.0100
P Value

transcription from RNA polymerase II promoter

Without AreaShape | Ordered Gene Set

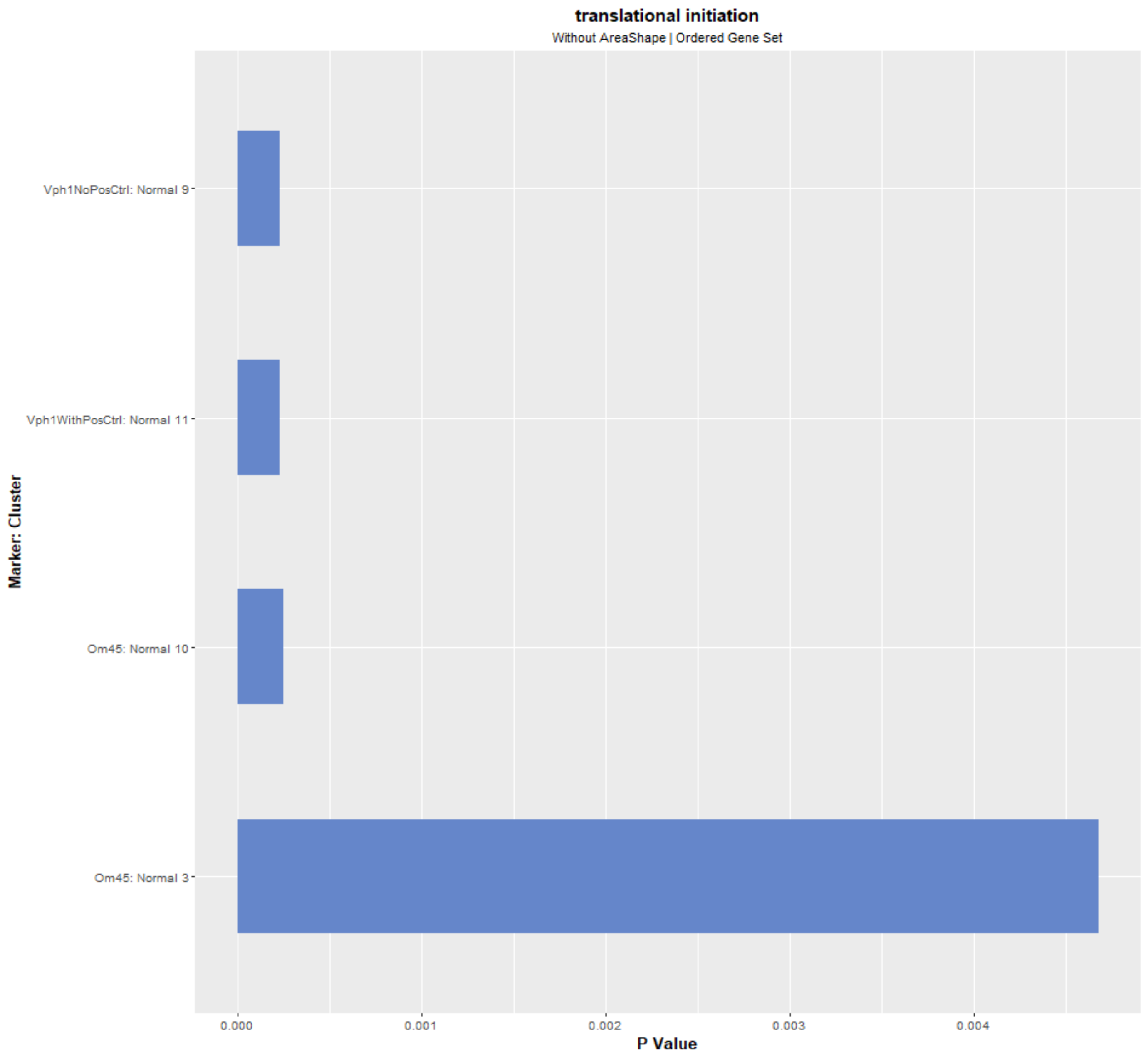
Cluster

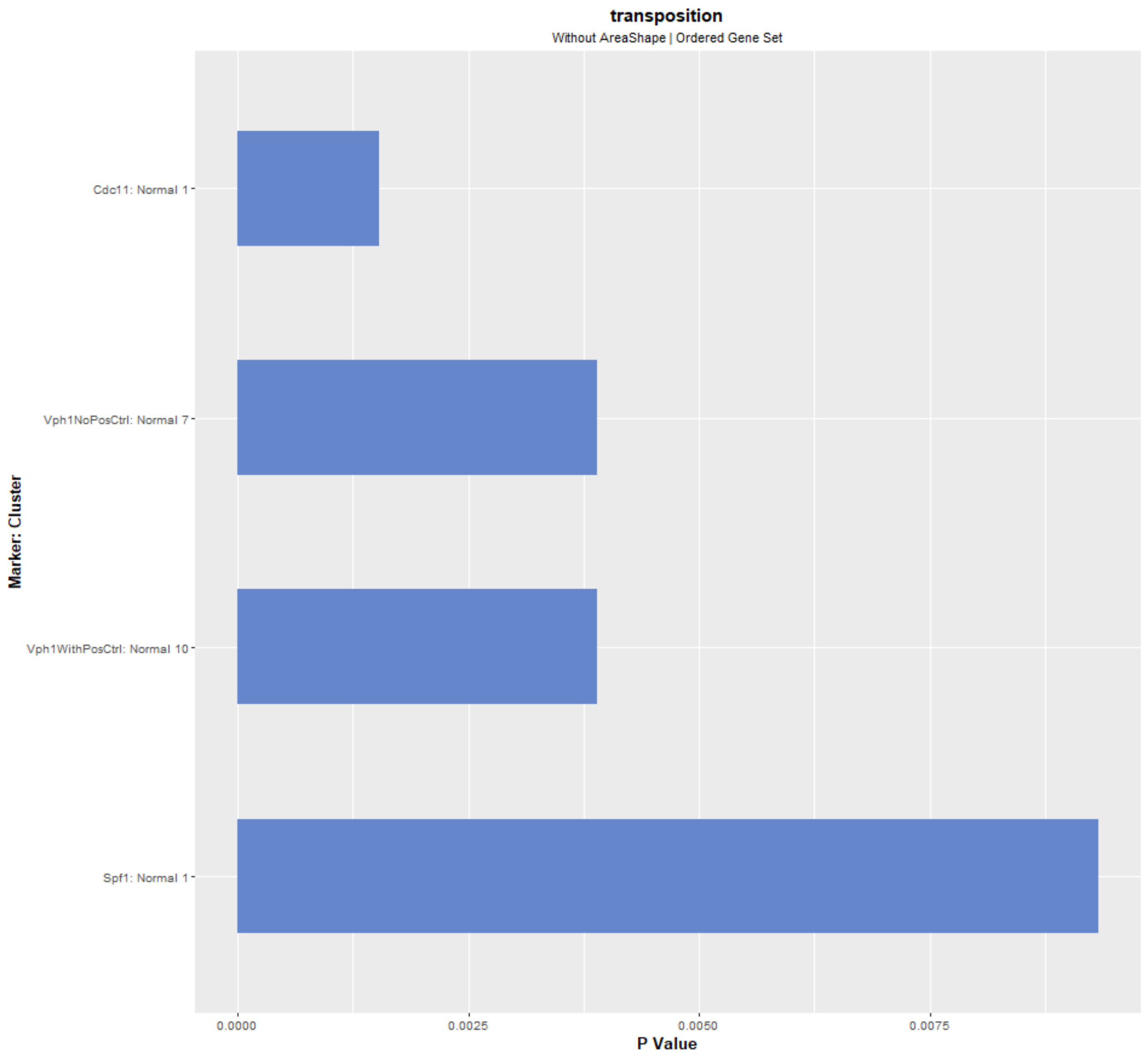
Marker:

Om45: Normal 10
Om45: Normal 5
Sec21: Normal 6
Vph1NoPosCtrl: Normal 7
Spf1: Normal 7
Vph1WithPosCtrl: Normal 10
Sec21: Normal 0
Cdc11: Normal 0
Om45: Normal 2
Sec21: Normal 7
Cdc11: Normal 1
Om45: Normal 3
Sec21: Normal 8
Cdc11: Normal 8
Vph1NoPosCtrl: Normal 1
Vph1WithPosCtrl: Normal 2
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Spf1: Normal 9
Sec21: Normal 9
Cdc11: Normal 10
Spf1: Normal 0
Cdc11: Normal 9
Vph1NoPosCtrl: Normal 10
Vph1WithPosCtrl: Normal 3
Om45: Normal 11
Om45: Normal 1
Om45: Normal 7
Cdc11: Normal 5
Spf1: Normal 8

0.000
0.002
0.004

P Value


translational initiation
Without AreaShape | Ordered Gene Set
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Om45: Normal 10
Om45: Normal 3
Cluster
Marker:
0.000
0.001
0.002
0.003
0.004
P Value


transposition
Without AreaShape | Ordered Gene Set
Cdc11: Normal 1
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Spf1: Normal 1
Cluster
Marker:
0.0000
0.0025
0.0050
0.0075
P Value

tRNA aminoacylation for protein translation

Without AreaShape | Ordered Gene Set

Cluster

Marker:

Vph1NoPosCtrl: Normal 9

Vph1WithPosCtrl: Normal 11

Om45: Normal 6

Vph1WithPosCtrl: Normal 2

Vph1NoPosCtrl: Normal 1

Om45: Normal 8

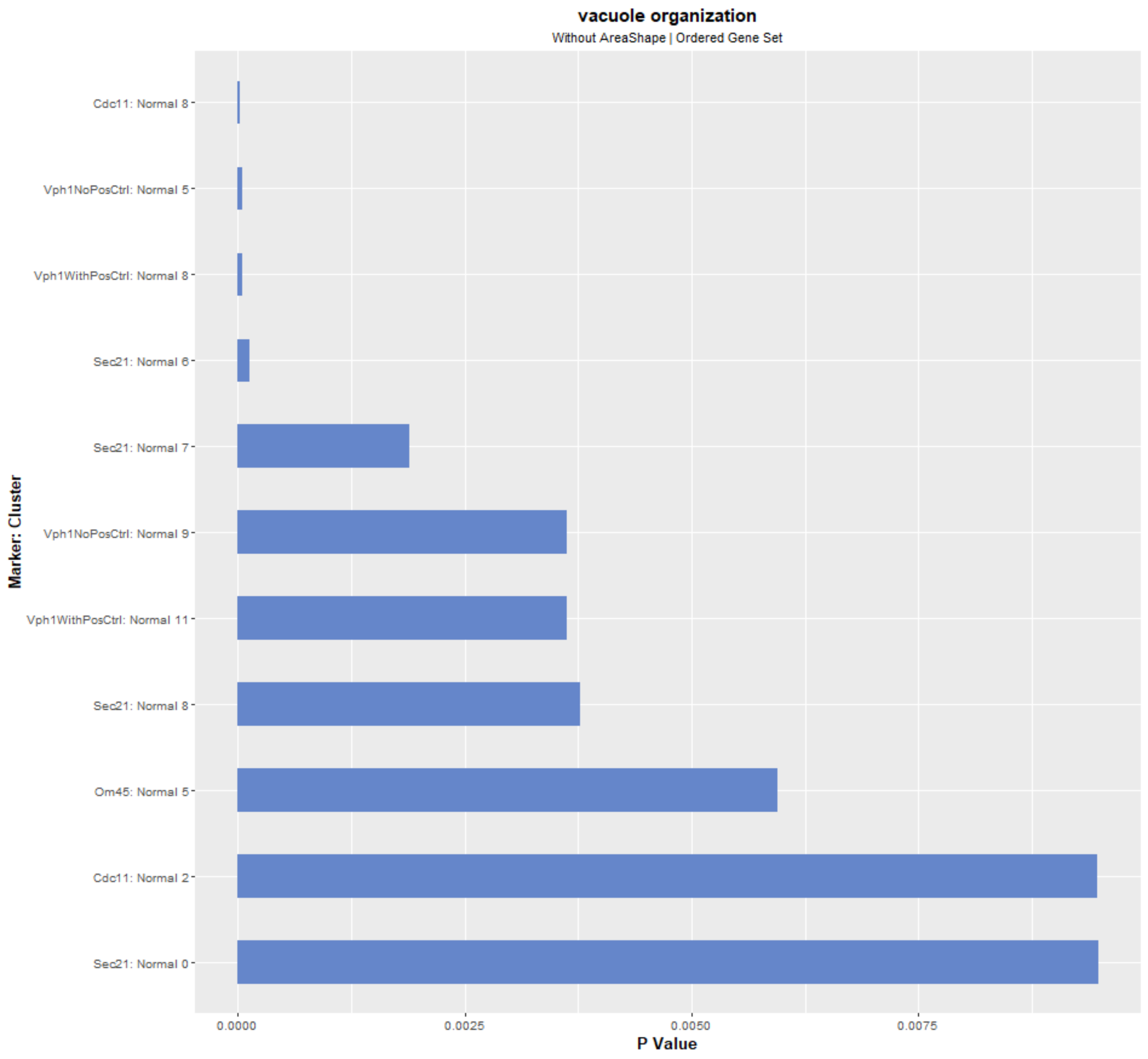
0.000

0.002

0.004

0.006

P Value


vacuole organization
Without AreaShape | Ordered Gene Set
Marker: Cluster
Cdc11: Normal 8
Vph1NoPosCtrl: Normal 5
Vph1WithPosCtrl: Normal 8
Sec21: Normal 6
Sec21: Normal 7
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Sec21: Normal 8
Om45: Normal 5
Cdc11: Normal 2
Sec21: Normal 0
0.0000
0.0025
0.0050
0.0075
P Value

vesicle organization

Without AreaShape | Ordered Gene Set

Cluster

Marker:

Cdc11: Normal 8
Vph1NoPosCtrl: Normal 10
Vph1WithPosCtrl: Normal 3
Vph1NoPosCtrl: Normal 7
Vph1WithPosCtrl: Normal 10
Vph1NoPosCtrl: Normal 1
Vph1WithPosCtrl: Normal 2
Spf1: Normal 7
Spf1: Normal 8
Om45: Normal 10
Sec21: Normal 8
Sec21: Normal 6
Om45: Normal 2
Sec21: Normal 0
Om45: Normal 1
Sec21: Normal 2
Om45: Normal 6
Vph1NoPosCtrl: Normal 9
Vph1WithPosCtrl: Normal 11
Spf1: Normal 10
Sec21: Normal 3
Cdc11: Normal 2
Sec21: Normal 7
Cdc11: Normal 0
Cdc11: Normal 11
Sec21: Normal 9
Vph1NoPosCtrl: Normal 5
Vph1WithPosCtrl: Normal 8
Spf1: Normal 5
Om45: Normal 5

0.00000
0.00025
0.00050
0.00075
0.001

P Value