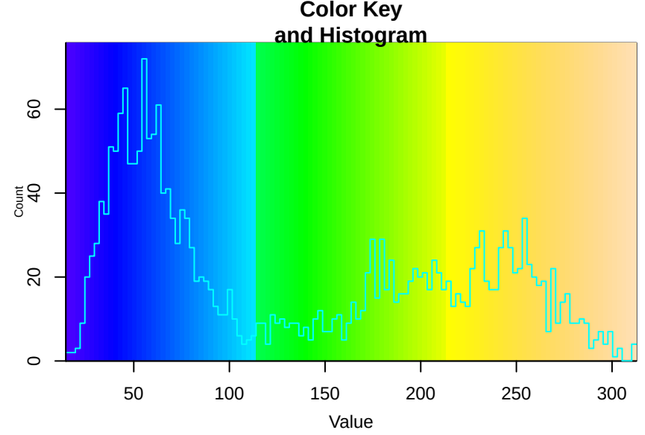
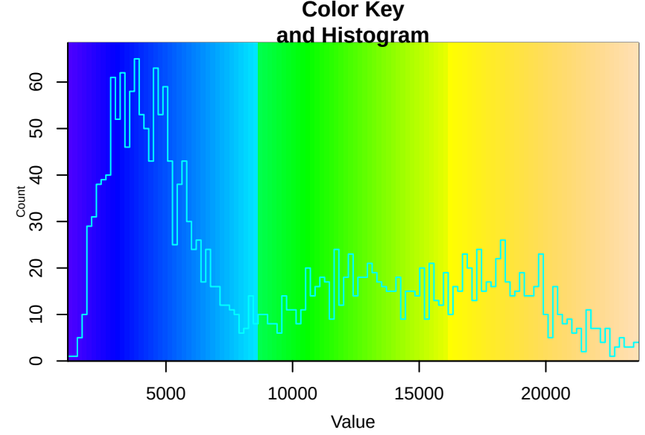


PM01 strain 2 −A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Red light
White light
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r 3
r 1
D 6
D 1
D 3
D 5
D 2
r 4
r 2
w 2
w 4
w 6
w 5
w 1
w 3
r 6
r 5
b 2
b 1
b 6
b 4
b 3
b 5
H05 (L-Lysine)
H10 (D-Galacturonic Acid)
H11 (N-Phenylalanine)
D09 (α-D-Lactose)
F11 (D-Cellobiose)
G07 (Acetoacetic Acid)
H07 (Glucuronamide)
H03 (D-Fructose)
H03 (m-Hydroxy-Phenylacetic Acid)
H02 (p-Hydroxy-Phenylacetic Acid)
E09 (Adonitol)
F10 (Glycolic Acid)
F09 (Glycolic Acid)
G08 (N-Acetyl-α-D-Mannosamine)
F04 (D-Threonine)
H04 (Tyramine)
F03 (myo-Inositol)
G02 (Thiodiglycolic Acid)
C06 (L-Rhamnose)
E11 (2'-Deoxy-Adenosine)
E04 (α-D-Fructose-6-Phosphate)
E03 (α-D-Glucose-1-Phosphate)
E09 (4-Hydroxy-Coumaric Acid)-γ-Lactone)
D04 (1,3-Propanediol)
E08 (β-Methyl-D-Glucoside)
D08 (α-Methyl-D-Galactoside)
B10 (Sodium Formate)
A10 (β-Hydroxy-Butyric Acid)
C12 (Thymidine)
B07 (D,L-α-Glycerol-Phosphate)
E12 (Maltotriose)
C10 (D-Maltose)
F01 (Gly-Asp)
C01 (D-Glucose-6-Phosphate)
A01 (Negative Control)
B01 (D-Serine)
G09 (Mono-Methyl-Succinate)
B02 (D-Sorbitol)
H09 (L-Galactonic Acid)-γ-Lactone)
G11 (D-Malic Acid)
A12 (Putrescine)
G04 (L-Threonine)
B07 (4-Keto-Butyric Acid)
E07 (α-Hydroxy-Butyric Acid)
C11 (D-Melibiose)
D11 (Sucrose)
D02 (D-Aspartic Acid)
B04 (L-Fucose)
D10 (Lactulose)
B05 (D-Glucuronic Acid)
E02 (m-Tartaric Acid)
C05 (Tween 20)
D05 (Tween 40)
E05 (Tween 80)
H01 (Gly-Pro)
H12 (Ethanolamine)
B03 (Glycerol)
F07 (Propionic Acid)
G01 (Gly-Glu)
C02 (D-Galacturonic Acid)-γ-Lactone)
G10 (Methyl-Pyruvate)
B08 (D-Xylose)
F08 (Bromo-Succinic Acid)
D03 (D-Galactonamide Acid)
C04 (D-Ribose)
C08 (Acetic Acid)
A03 (N-Acetyl-D-Glucosamine)
B09 (L-Lactic Acid)
A06 (D-Galactose)
G05 (L-Alanine)
H08 (Pyruvic Acid)
A11 (D-Mannose)
C07 (D-Fructose)
D12 (Uridine)
A09 (D-Alanine)
G06 (Ala-Gly)
E12 (Adenosine)
F02 (Citric Acid)
F06 (Mucic Acid)
G03 (L-Serine)
G12 (L-Malic Acid)
A04 (D-Saccharic Acid)
E01 (L-Glutamine)
D01 (L-Asparagine)
B12 (L-Glutamic Acid)
D06 (4-Keto-Glutaric Acid)
B11 (D-Mannitol)
F12 (Inosine)
A05 (Succinic Acid)
A02 (L-Arabinose)
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A07 (L-Aspartic Acid)
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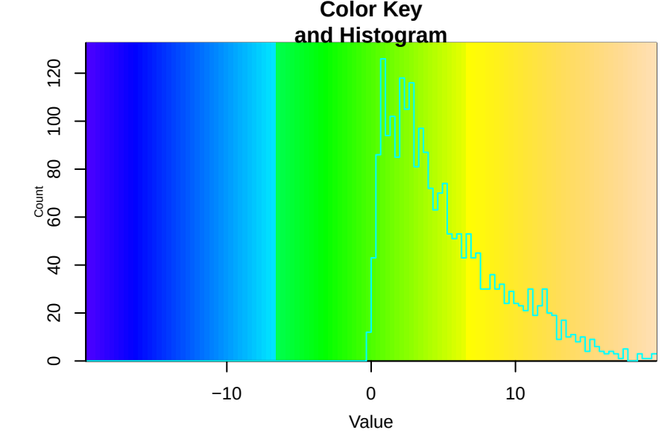
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w 2
w 1
w 6
w 5
b 3
b 4
D 1
D 2
D 3
D 6
D 4
D 5
r 1
r 2
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w 3
w 4
r 5
r 6
r 4
E02 (m-Tartaric Acid)
B09 (L-Lactic Acid)
E06 (Tween 80)
C05 (Tween 40)
D05 (Tween 20)
H03 (β-Lactic Acid)
A05 (Succinic Acid)
A09 (β-Alanine)
A07 (L-Aspartic Acid)
F12 (Inosine)
C08 (Acetic Acid)
C09 (D-Glucose)
B05 (D-Gluconic Acid)
C03 (D,L-Malic Acid)
G12 (L-Malic Acid)
A04 (D-Saccharic Acid)
G03 (L-Serine)
F08 (Mucic Acid)
F02 (Citric Acid)
D01 (L-Asparagine)
F06 (Bromo-Succinic Acid)
F05 (Fumaric Acid)
D06 (α-Keto-Glutaric Acid)
E01 (L-Glutamine)
H09 (L-Galactonic Acid-γ-Lactone)
B10 (Sodium Formate)
F01 (Gly-Asp)
B07 (D,L-α-Glycerol-Phosphate)
D03 (D-Glucosaminic Acid)
A03 (N-Acetyl-D-Glucosamine)
A11 (D-Mannose)
B03 (Glycerol)
G07 (Ketobutyric Acid)
G01 (Gly-Glu)
B11 (D-Mannitol)
G06 (Ala-Gly)
G03 (Mono-Methyl Succinate)
B12 (L-Glutamic Acid)
A06 (D-Cellobiose)
A08 (L-Proline)
D12 (Maltitol)
C07 (D-Fructose)
E12 (Adenosine)
G05 (L-Alanine)
H05 (L-Lysine)
D07 (γ-Hydroxy-Phenylacetic Acid)
H02 (p-Hydroxy-Phenylacetic Acid)
H04 (Tyramine)
H03 (m-Hydroxy-Phenylacetic Acid)
C12 (Thymidine)
E07 (α-Hydroxy-Butyric Acid)
F10 (Glycolic Acid)
C06 (L-Rhamnose)
E06 (α-Hydroxy-Glutaric Acid-γ-Lactone)
H07 (Glucuronamide)
G02 (Pantothetic Acid)
F04 (D-Threonine)
H11 (p-Phenylethylamine)
C11 (D-Malic Acid)
G04 (L-Threonine)
F07 (Propionic Acid)
H12 (Ethanolamine)
A02 (L-Asparagine)
E10 (Maltotriose)
H01 (Gly-Pro)
C04 (D-Ribose)
B08 (D-Xylose)
C02 (D-Galactonic Acid-γ-Lactone)
G10 (Methyl Pyruvate)
E08 (β-Methyl-D-Glucoside)
C01 (D-Glucose-6-Phosphate)
D02 (D-Aspartic Acid)
D08 (α-Methyl-D-Galactoside)
G08 (N-Acetyl-D-Glucosamine)
B06 (D-Glucuronic Acid)
H10 (β-Galactosamic Acid)
D11 (Sucrose)
A10 (β-Methoxin)
C10 (D-Maltose)
B01 (D-Serine)
B04 (L-Fucose)
C11 (D-Melibiose)
B02 (D-Sorbitol)
F11 (D-Cellobiose)
F09 (Glycolic Acid)
E03 (α-D-Glucose-1-Phosphate)
D04 (1,2-Propanediol)
F03 (Hydroxy-Butyric Acid)
A01 (Negative Control)
E04 (D-Fructose-6-Phosphate)
A12 (Dulcitol)
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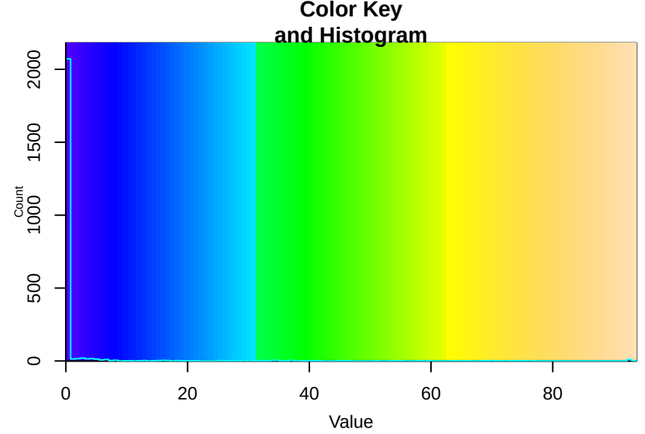
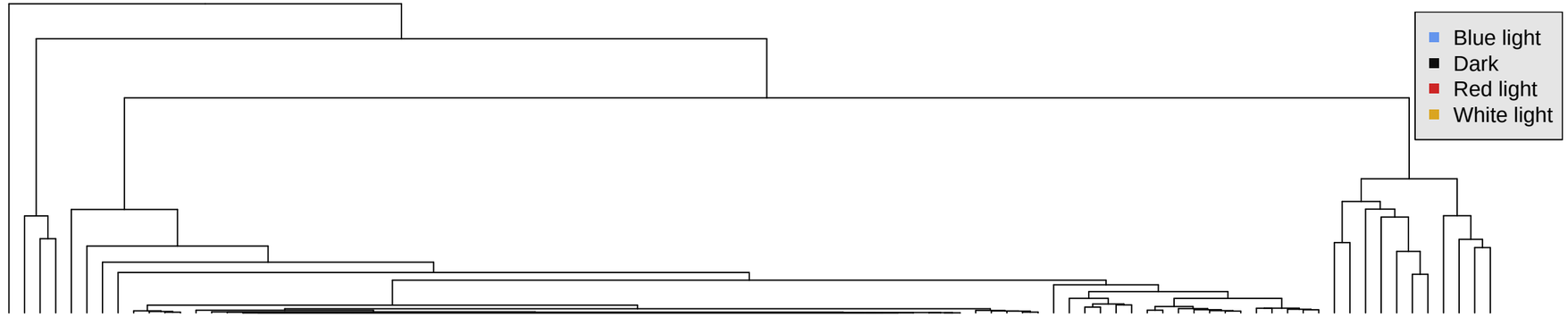
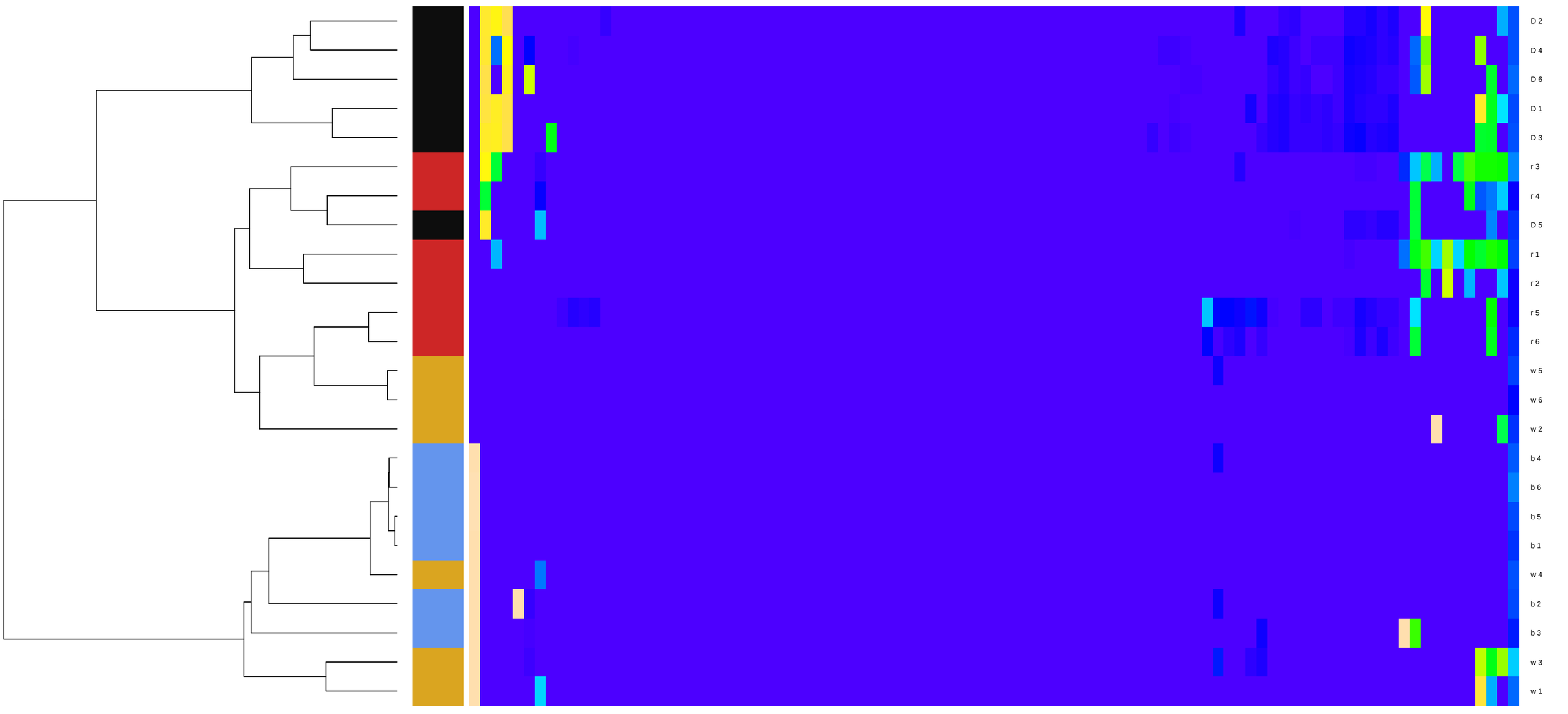
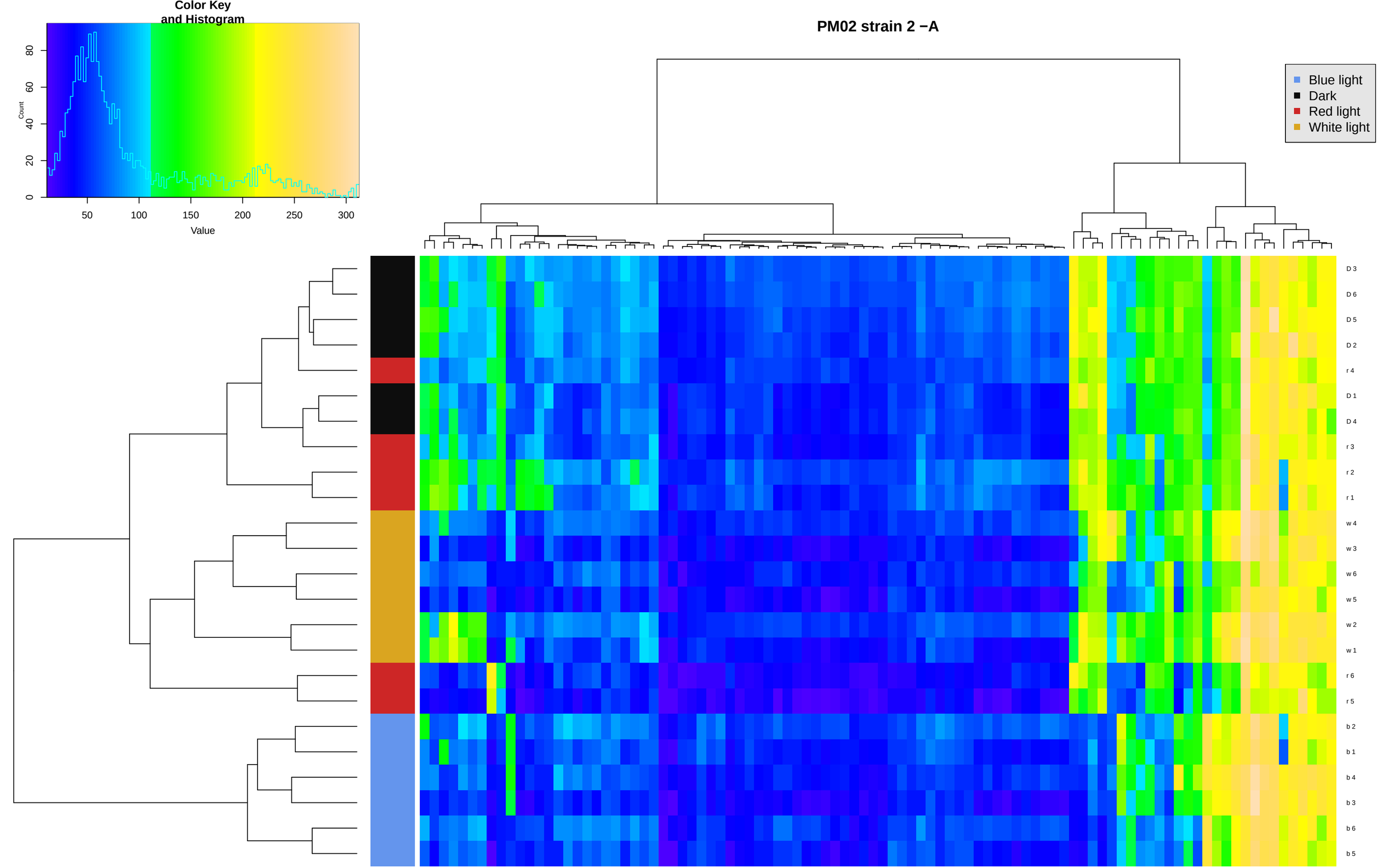
E09 (Adonitol)
D10 (Lactulose)
D09 (α-D-Lactose)



PM01 strain 2 −lambda



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Dark
Red light
White light
D 3
D 6
D 5
D 2
r 4
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D 4
r 3
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r 1
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w 3
w 6
w 5
w 2
w 1
r 6
r 5
b 2
b 1
b 4
b 3
b 6
b 5
A10 (Laminarin)
B08 (Arbutin)
D02 (D−Salicin)
D01 (D−Raffinose)
C12 (Rutinose)
A03 (α−Cyclodextrin)
A08 (Glycogen)
E07 (4−Hydroxy−Benzoic Acid)
F09 (Gallic Acid)
G06 (L−Histidine)
D05 (Stachyose)
C09 (α−Methyl−D−Glucuronic Acid)
C04 (D−Melezitose)
G11 (L−Lysine)
H12 (6−O−α−D−Galactopyranosyl−D−Arabitrol)
E12 (D−Fructo−D−Glucose Acid)
B11 (D−Fucose)
A09 (Inulin)
A11 (Mannan)
A01 (Negative Control)
A02 (Chondroitin Sulfate C)
D12 (Butyric Acid)
A06 (β−Cyclodextrin)
B04 (Amygdalin)
C01 (D−Galactose)
G07 (L−Homoserine)
E06 (3−Hydroxy−Benzoic Acid)
H06 (Butylamine (sat))
H10 (2,3−Butanediol)
H11 (2,3−Butanediol)
F03 (Malonic Acid)
F11 (D−Tartaric Acid)
E10 (α−Keto−Valeric Acid)
F08 (Sebacic Acid)
G12 (L−Methionine)
C03 (D−Lactitol)
C02 (L−Glucose)
D06 (D−Tagatose)
B03 (β−D−Allose)
D04 (L−Sorbose)
D08 (Xylitol)
D03 (Stachyohexaose)
C08 (3−O−Methyl−D−Glucose)
D09 (N−Acetyl−D−Glucosamine)
E11 (Glucuronic Acid)
H07 (D,L−Octopamine)
F04 (Oxalic Acid)
E07 (D−Ribono−1,4−Lactone)
E09 (4−Hydroxy−Butyric Acid)
G01 (Acetamide)
F05 (Oxalomalic Acid)
D07 (Taranose)
H12 (3−Hydroxy−2−Butanone)
F12 (L−Tartaric Acid)
F10 (Succinamic Acid)
B02 (N−Acetyl−Neuraminic Acid)
G02 (L−Alaninamide)
C07 (α−Methyl−D−Galactoside)
C11 (β−Methyl−D−Xylopyranoside)
C05 (Maltitol)
C06 (α−Methyl−D−Glucoside)
B09 (2−Deoxy−D−Ribose)
B05 (D−Arabitose)
D11 (4−Keto−Valeric Acid)
B10 (i−Erythritol)
C10 (α−Methyl−D−Mannoside)
B07 (L−Arabitol)
E02 (Citramic Acid)
E03 (Citraconic Acid)
H04 (L−Valine)
G05 (L−Isoleucine)
E01 (Cupric Acid)
A12 (Pectin)
A05 (Dextrin)
H05 (DL−Carnitine)
H02 (L−Phenylalanine)
B01 (N−Acetyl−D−Galactosamine)
F02 (Maronic Acid)
A04 (β−Cyclodextrin)
H01 (L−Ornithine)
G10 (L−Leucine)
H09 (Ethanol−Acetone)
E04 (D−Citramalic Acid)
E05 (D−Glutaramine)
B06 (D−Arabitol)
G08 (L−Hydroxyproline)
H08 (Putrescine)
G04 (L−Arginine)
H03 (L−Pyroglutamic Acid)
A07 (Gelatin)
G03 (N−Acetyl−L−Glutamic Acid)
D10 (α−Amino−n−Butyric Acid)
F06 (Quinic Acid)
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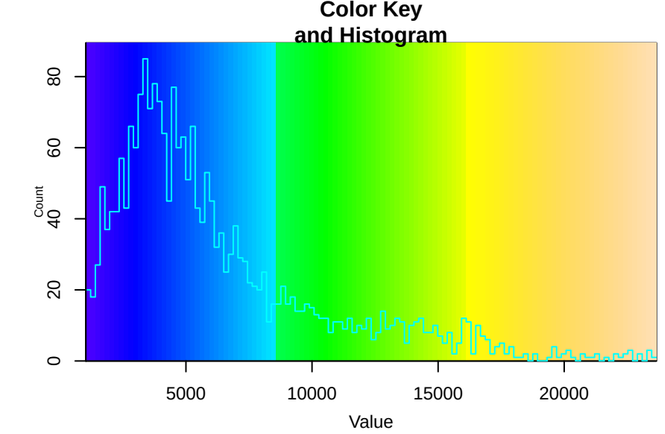
E08 (3−Hydroxy−Butyric Acid)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Red light
White light
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r 4
D 3
D 6
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D 4
r 3
D 1
w 2
w 4
w 1
w 3
b 1
b 3
b 6
b 5
b 2
b 4
w 6
w 5
r 6
r 5
F09 (Sorbic Acid)
E07 (4-Hydroxy-Benzoic Acid)
D02 (β-Salicin)
D01 (D-Raffinose)
B08 (Alkalin)
B04 (Arbutin)
A05 (β-Cyclodextrin)
A02 (Dihydrolin Sulfate Cf)
A01 (Negative Control)
C01 (b-Gentiobiose)
B11 (D-Fucose)
B10 (m-Erythritol)
B09 (2-Deoxy-D-Ribose)
F12 (L-Tartaric Acid)
B03 (D-Arabinose)
E13 (5-Keto-D-Gluconic Acid)
D12 (Butyric Acid)
C11 (α-D-Galactopyranosyl-α-D-Arabinose)
A09 (Inulin)
A11 (Mannose)
A10 (Lactulose)
A03 (α-Cyclodextrin)
A08 (Glycogen)
C12 (Palatinose)
H06 (Butylamine) (set3)
H10 (13-Butanediol)
H11 (13-Butanediol)
C05 (Glycine)
F05 (Oxalomalic Acid)
H07 (DL-Octopamine)
F03 (Methionic Acid)
F11 (D-Tartaric Acid)
G07 (L-Homoserine)
E06 (2-Hydroxy-Benzoic Acid)
F04 (Oxalic Acid)
F08 (Gluconic Acid)
F07 (D-Ribono-1,4-Lactone)
E09 (4-Hydroxy-Butyric Acid)
E11 (Hexonic Acid)
C08 (3-O-Methyl-D-Glucose)
D06 (D-Tagatose)
D08 (Xylitol)
D09 (N-Acetyl-D-Glucosamine)
D04 (L-Sorbose)
D03 (Sedoheptulosan)
G06 (L-Histidine)
G11 (L-Lysine)
H12 (3-Hydroxy-2-Butanone)
G12 (L-Methionine)
G01 (Acrylamide)
G02 (L-Asparagine)
F10 (Succinamic Acid)
C02 (L-Glucose)
B02 (N-Acetyl-Neuraminic Acid)
C09 (N-Methyl-D-Glucamic Acid)
C04 (D-Melibiose)
E08 (α-Keto-Valeric Acid)
D05 (Diethylene)
B03 (3-O-Allose)
C03 (D-Lactitol)
D07 (Turanose)
C06 (α-Methyl-D-Glucoside)
C05 (Maltitol)
C07 (β-Methyl-D-Galactoside)
B07 (L-Arabitol)
C10 (α-Methyl-D-Mannoside)
G13 (d-Amino-Valeric Acid)
C11 (α-Methyl-D-Xylopyranoside)
G08 (L-Hydroxyproline)
H08 (Putrescine)
H03 (L-Pyroglutamic Acid)
F06 (Quinic Acid)
E05 (b-Hydroxy-Butyric Acid)
G04 (L-Arginine)
F01 (D-Lactic Acid Methyl Ester)
D10 (β-Amino-n-Butyric Acid)
H09 (Ethylolcy-Acetone)
A07 (Gelatin)
E03 (β-Glucosamin)
B06 (D-Fructose)
E04 (D-Glucaric Acid)
G03 (N-Acetyl-L-Glutamic Acid)
E02 (Glucosamic Acid)
E12 (Caprylic Acid)
F02 (Malonic Acid)
H02 (L-Valine)
G09 (L-Isoleucine)
A04 (β-Cyclodextrin)
A12 (Pectin)
G10 (L-Leucine)
E01 (Capric Acid)
H01 (L-Ornithine)
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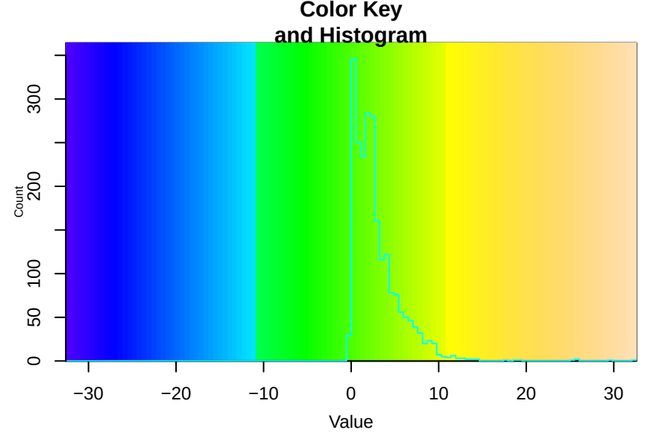
A06 (Dextrin)
B01 (N-Acetyl-D-Galactosamine)
H05 (DL-Carnitine)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r 3
r 4
r 6
r 5
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w 2
w 4
w 3
w 5
w 6
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H09 (Dihydroxy-Acetone)
G08 (L-Hydroxyproline)
F05 (Quinic Acid)
H08 (Pantetose)
H03 (L-Pyroglutamic Acid)
E04 (D-Cinamatic Acid)
A06 (Inosine)
E05 (D-Glucosamine)
G04 (L-Arginine)
F01 (D-/Lactic Acid Methyl Ester)
E08 (b-Hydroxy-Butyric Acid)
D10 (g-/Amino-n-Butyric Acid)
A12 (Thymidine)
A04 (b-Cyclodextrin)
B06 (D-Arabitol)
H04 (L-Valine)
A07 (Gelatin)
F10 (Succinamic Acid)
F02 (Malonic Acid)
G03 (N-Acetyl-L-Glutamic Acid)
E07 (a-Hydroxy-Benzoic Acid)
B08 (Alkutin)
E06 (2-Hydroxy-Benzoic Acid)
G07 (L-Homoserine)
B09 (2-Deoxy-D-Ribose)
D09 (N-Acetyl-D-Glucosamine)
B04 (a-D-Glucose-1-Phosphate)
B05 (D-Arabinose)
E10 (a-Keto-Valeric Acid)
G11 (L-Methionine)
H07 (DL-Octopamine)
C06 (b-D-Methyl-D-Glucose)
F07 (D-Ribono-1,4-Lactone)
D12 (Butyric Acid)
B10 (m-Erythritol)
D11 (d-Amino-Valeric Acid)
C09 (b-Methyl-D-Glucuronic Acid)
C04 (a-Methyl-D-Glucoside)
C07 (b-Methyl-D-Galactoside)
F04 (Deoxic Acid)
C10 (a-Methyl-D-Mannoside)
D08 (Xylitol)
E11 (Acetoc Acid)
E09 (g-Hydroxy-Butyric Acid)
A11 (Maltose)
B11 (D-Fucose)
C02 (L-Glucose)
H06 (Butylamine (-ve))
C11 (b-Methyl-D-Xylopyranoside)
B07 (L-Arabitol)
F04 (Oxalic Acid)
H10 (12-/Butanediol)
B03 (D-/D-Ribose)
C03 (D-Lactitol)
C05 (Maltitol)
D03 (Sedoheptulosan)
E03 (Citriconic Acid)
E02 (Caprinic Acid)
G09 (L-Isoleucine)
E01 (Capric Acid)
F12 (L-/Tartaric Acid)
C12 (Putrescine)
B01 (N-Acetyl-D-Galactosamine)
G10 (L-Leucine)
H05 (DL-Carnitine)
F03 (Sebacic Acid)
H02 (L-/Phenylalanine)
F09 (Cholesterol Acid)
A10 (Lactulose)
A08 (Glycogen)
D02 (D-/Salicin)
D01 (D-/Raffinose)
D07 (Turanose)
G05 (Glycine)
G02 (L-/Asparagine)
H01 (L-/Ornithine)
A09 (b-Cyclodextrin)
G01 (Adonamide)
H11 (23-/Butanediol)
F11 (D-/Tartaric Acid)
H12 (3-Hydroxy-/2-Butanone)
A03 (Negative Control)
C01 (b-Cantobiose)
D05 (Ethylene)
C08 (D-/Melezitose)
G11 (L-Lysine)
G06 (L-/Histidine)
B04 (Amygdalin)
A02 (b-Cyclodextrin)
F03 (Melibionic Acid)
D06 (D-/Tagatose)
D04 (L-/Sorbose)
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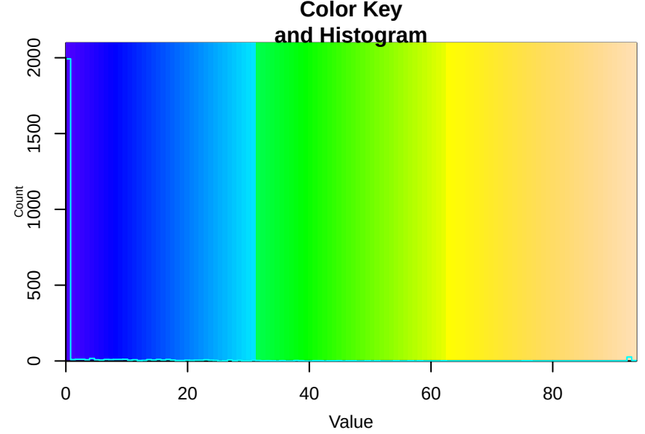

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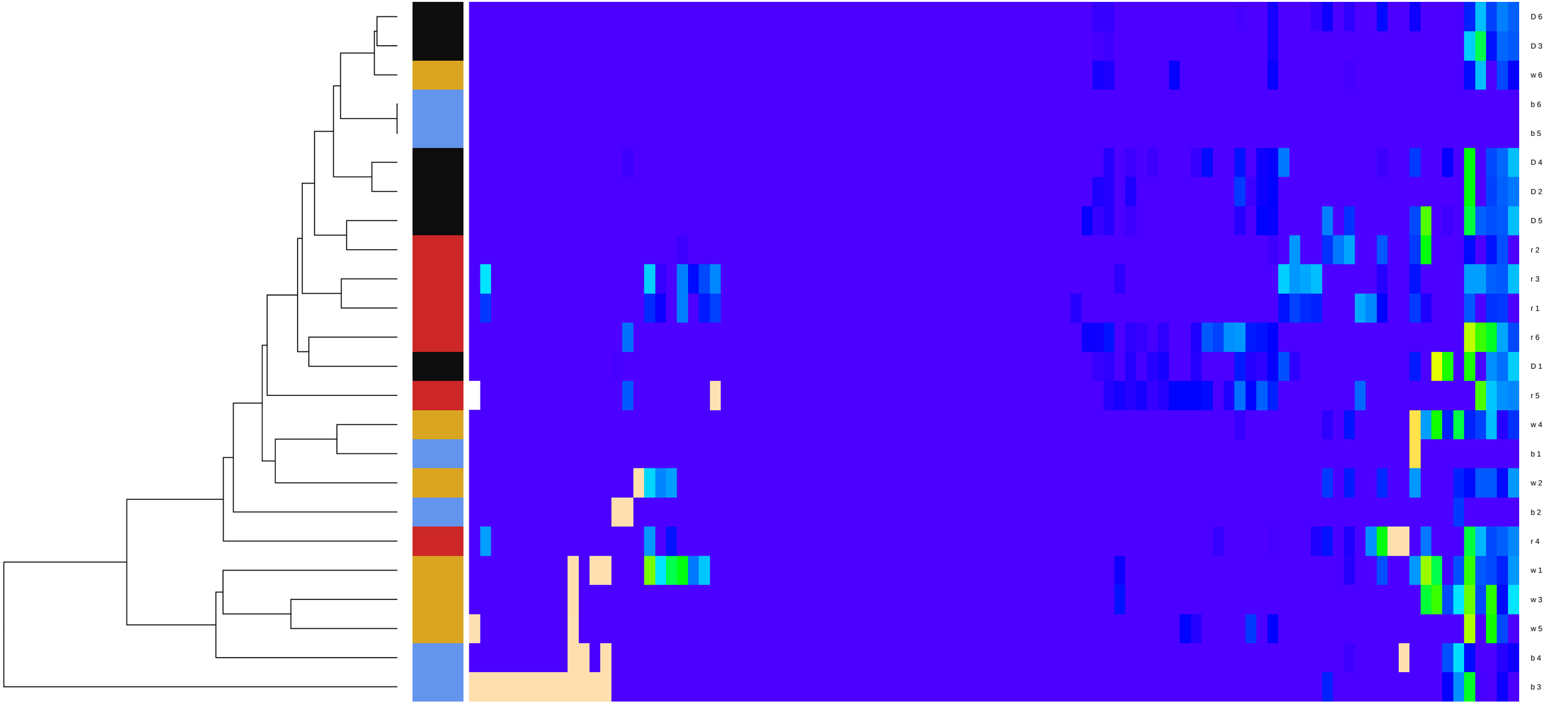

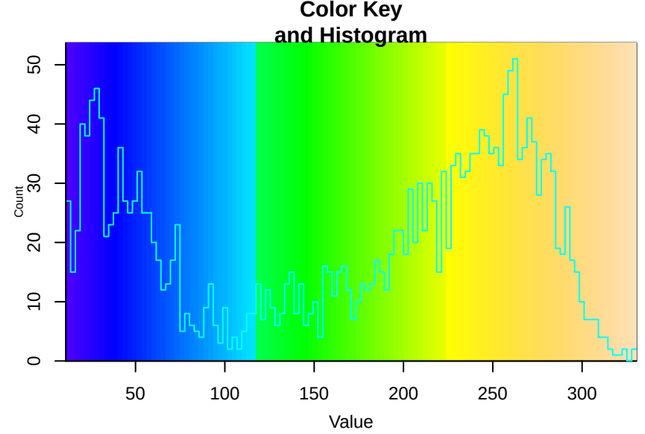

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White light

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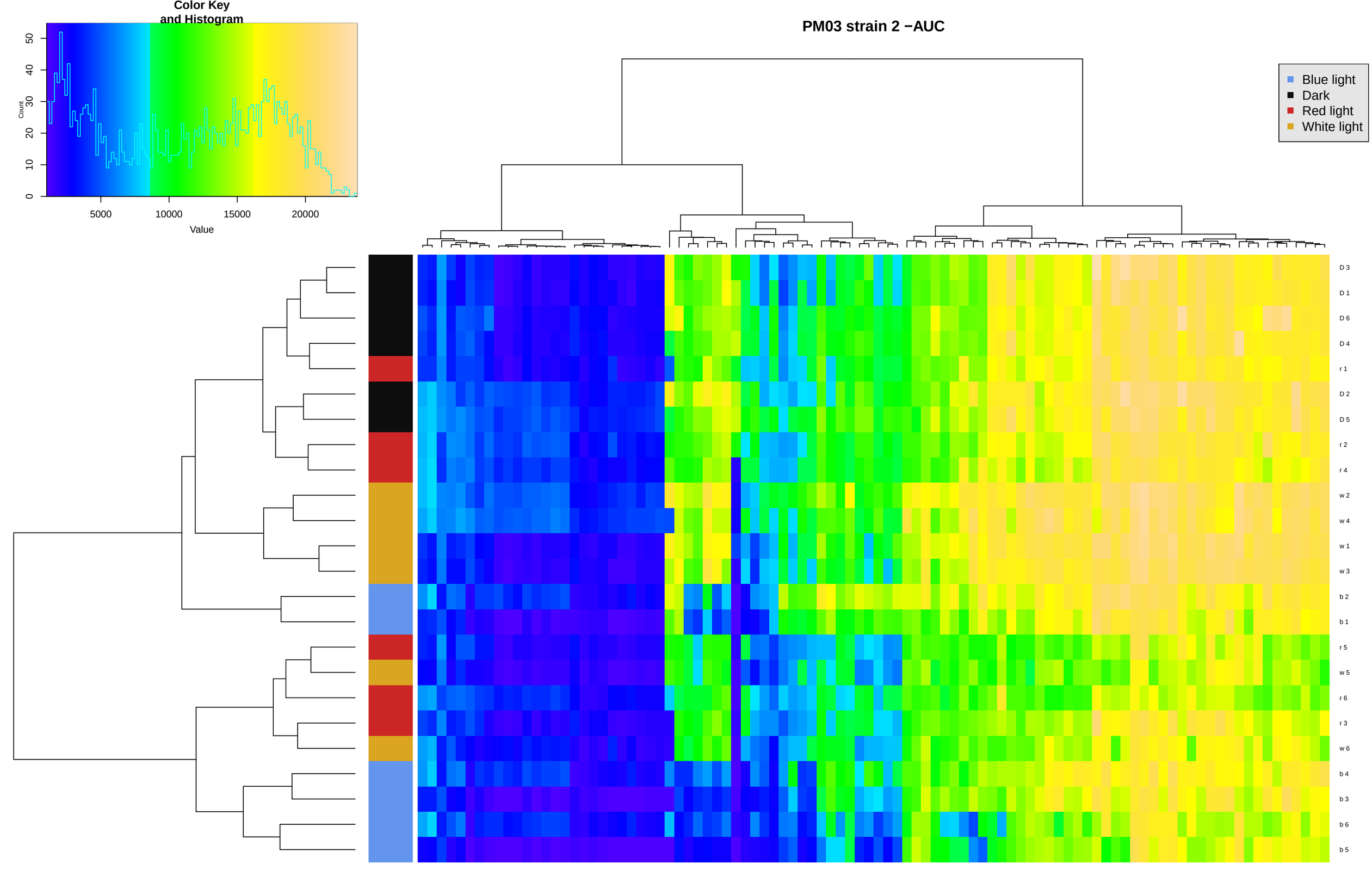
w 5
D 2
D 6
D 3
D 1
D 5
D 4
r 2
r 1
b 4
b 3
b 6
b 5
b 2
b 1

E12 (N-Acetyl-D-Galactosamine)
B12 (L-Tryptophan)
A11 (L-Cysteine)
A07 (Negative Control)
D04 (Hydroxylamine)
A06 (Blank)
C11 (L-Homoserine)
E07 (D,L- Lactamide)
E09 (D-Galactosamine)
E03 (Tyramine)
D05 (Methylamine)
E04 (Acetamide)
E02 (β- Phenylethylamine)
G04 (Alloxan)
G09 (α-Amino-N-Caprylic Acid)
C10 (D,L- α -Amino-Caprylic Acid)
F09 (Thymidine)
D08 (Ethylamine)
C05 (D-Aspartic Acid)
C06 (D- Glutamic Acid)
D07 (N- Butylamine)
D06 (N- Amylamine)
D10 (Ethylenediamine)
C09 (β- Alanine)
B07 (L- Methionine)
C03 (Uric Acid)
B11 (L- Threonine)
F05 (Cytosine)
G11 (D- α-Amino- Valeric Acid)
G07 (D,L- α-Amino- Butyric Acid)
E10 (D- Mannosamine)
E05 (Formamide)
H11 (Gly- Met)
B02 (Glycine)
A04 (Sodium Citrate)
C04 (D- Aspartate)
A03 (Sodium Formate)
B04 (L- Isoleucine)
C08 (D- Serine)
F11 (Uridine)
F10 (Uracil)
F08 (Thymine)
B05 (L- Leucine)
C10 (L- Citrulline)
B03 (L- Phenylalanine)
F04 (Cytidine)
F01 (N- Acetyl- β- D- Mannosamine)
C07 (D- Lysine)
E11 (N- Acetyl- D- Glucosamine)
G12 (L- Norvaline)
C12 (L- Ornithine)
G06 (Parabanic Acid)
E06 (Glucuronamide)
D09 (Ethanolamine)
F04 (Guanine)
D01 (N- Acetyl- L- Glutamic Acid)
E08 (D- Glucosamine)
D02 (N- Phthalyl- L- Glutamic Acid)
C01 (L- Tyrosine)
B06 (L- Lysine)
H03 (Gly- Glu)
C02 (L- Valine)
A08 (L- Arginine)
D12 (Agmatine)
A05 (Urea)
H07 (Ala- Thr)
A02 (L- Alanine)
B03 (L- Histidine)
H05 (Ala- His)
B01 (L- Glutamine)
H02 (Ala- Gln)
H06 (Ala- Leu)
H01 (Ala- Asn)
A12 (L- Glutamic Acid)
E01 (Histamine)
A02 (Ammonia)
H12 (Met- Ala)
H02 (Ala- Glu)
B09 (L- Proline)
A09 (L- Asparagine)
B10 (L- Serine)
A10 (L- Aspartic Acid)
C05 (Allantoin)
D11 (Putrescine)
G08 (p- Amino- n- Butyric Acid)
H03 (Gly- Asn)
H04 (Ala- Cys)
H09 (Gly- Gln)
F03 (Adenosine)
G01 (Xanthine)
G02 (Xanthosine)
F07 (Guanosine)
C03 (β- Alanine)
F02 (Adenine)
F12 (Inosine)
D03 (L- Pyroglutamic Acid)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PM03 strain 2 −AUC
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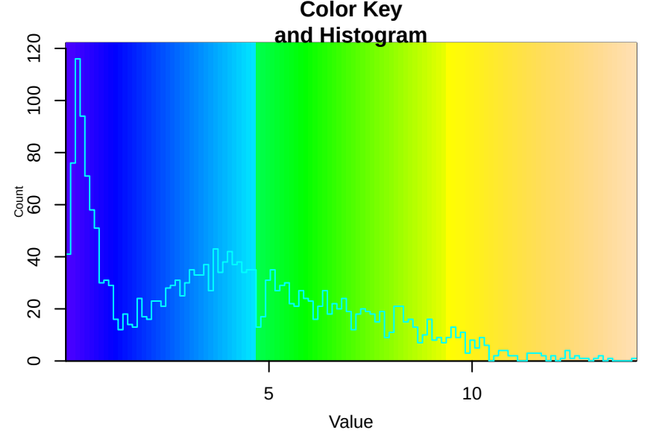
Dark
Red light
White light
D 3
D 1
D 6
D 4
r 1
D 2
D 5
r 2
r 4
w 2
w 4
w 1
w 3
b 2
b 1
r 5
w 5
r 6
r 3
w 6
b 4
b 3
b 6
b 5
A11 (L−Cysteine)
B12 (L−Tyrosine)
A01 (Negative Control)
A06 (Blank)
E12 (N−Acetyl−D−Glucosamine)
G07 (D/L−α−Amino−Butyric Acid)
E09 (D−Galactosamine)
E07 (D/L−Lactamide)
D07 (N−Butylamine)
C06 (D−Glucaric Acid)
C05 (D−Aspartic Acid)
C11 (L−Homoserine)
D06 (N−Amylamine)
D10 (Ethylenediamine)
B07 (L−Methionine)
C03 (β−Alanine)
G04 (Allobarin)
G09 (α−Amino−N−Caproic Acid)
G10 (D/L−α−Amino−Caprylic Acid)
F09 (Thymidine)
D04 (Hydroxylamine)
D05 (Methylamine)
D08 (Ethylamine)
E04 (Acetamide)
E03 (Tyramine)
E02 (β−Phenylethylamine)
E05 (Formamide)
H11 (Gly−Met)
C04 (D−Asparagine)
A04 (Sodium Nitrate)
B02 (Glycine)
B04 (L−Histidine)
A03 (Sodium Nitrite)
G03 (Uric Acid)
F05 (Cytosine)
B11 (L−Threonine)
E10 (D−Mannosamine)
G11 (d−Amino−Valeric Acid)
C08 (D−Serine)
F11 (Uridine)
F03 (Thymine)
F10 (Uracil)
B08 (L−Lysine)
E11 (N−Acetyl−D−Glucosamine)
F04 (Cytidine)
F02 (N−Acetyl−α−D−Mannosamine)
B05(L−Phenylalanine)
B01 (L−Alanine)
C12 (L−Norvaline)
C10 (L−Citrulline)
C07 (D−Lysine)
E08 (D−Glucosamine)
D01 (N−Acetyl−L−Glutamic Acid)
D02 (N−Phthaloyl−L−Glutamic Acid)
C01 (L−Tyrosine)
H10 (Gly−Glu)
C02 (L−Valine)
E06 (Glucosaminamide)
C09 (Parabanic Acid)
C12 (L−Ornithine)
D09 (Ethanolamine)
B09 (L−Proline)
F07 (Guanosine)
G02 (Xanthosine)
H01 (Ala−Asp)
H14 (Ala−Gly)
G05 (Allantoin)
D11 (Putrescine)
C03 (D−Alanine)
G08 (β−Amino−n−Butyric Acid)
A05 (L−Arginine)
D12 (Agmatine)
F01 (Adenosine)
A02 (Uric)
B03 (L−Glutamine)
H02 (Ala−Gln)
A02 (Ammonia)
H03 (Ala−Glu)
A12 (L−Glutamic Acid)
H07 (Ala−Thr)
G01 (Xanthine)
B10 (L−Histidine)
A07 (L−Alanine)
A10 (L−Aspartic Acid)
A09 (L−Asparagine)
H05 (Ala−His)
F02 (Adenosine)
H08 (Ala−Leu)
H03 (Gly−Asn)
B10 (L−Serine)
H09 (Gly−Gln)
H12 (Met−Ala)
E01 (Histamine)
D03 (L−Pyroglutamic Acid)
F12 (Inosine)



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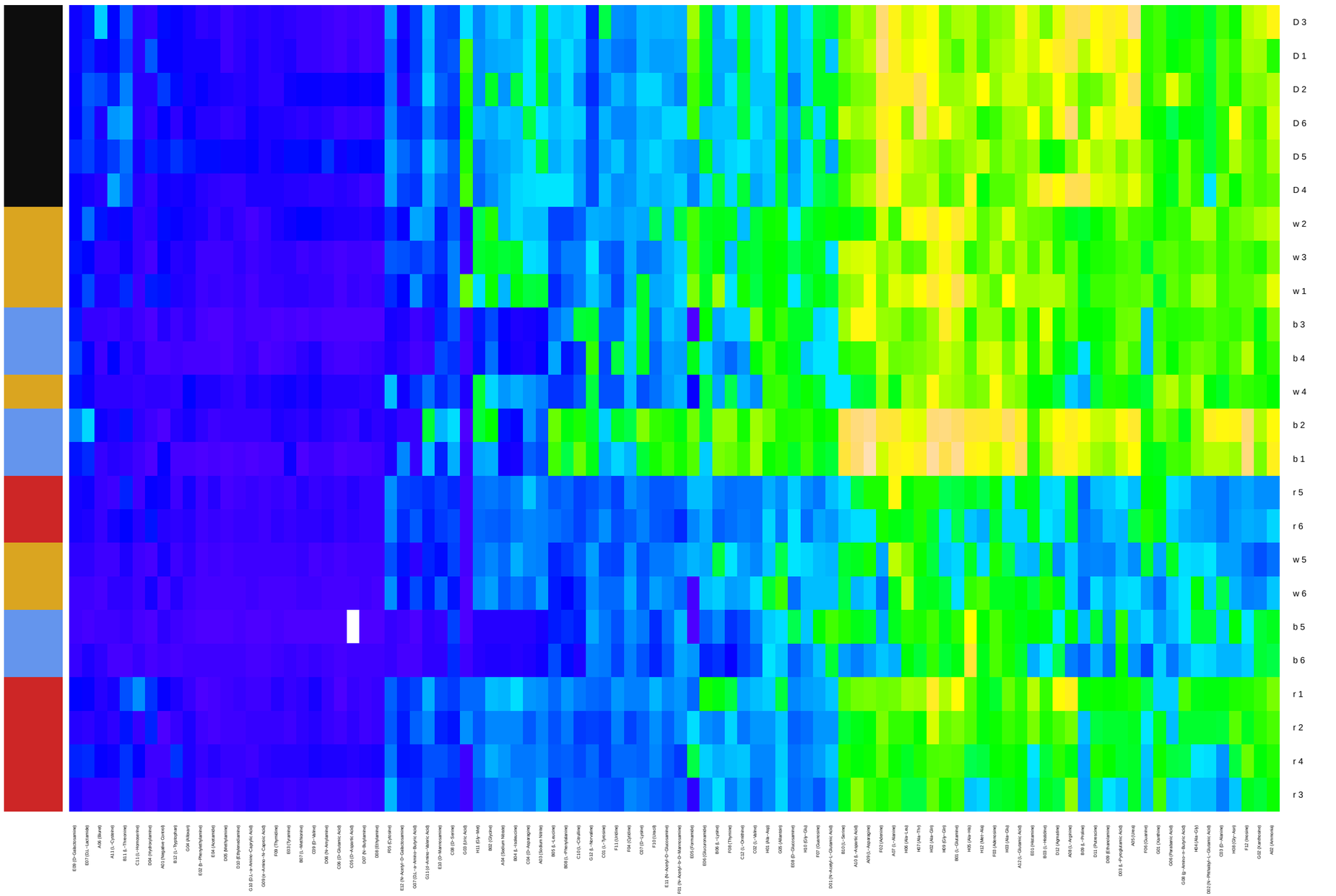
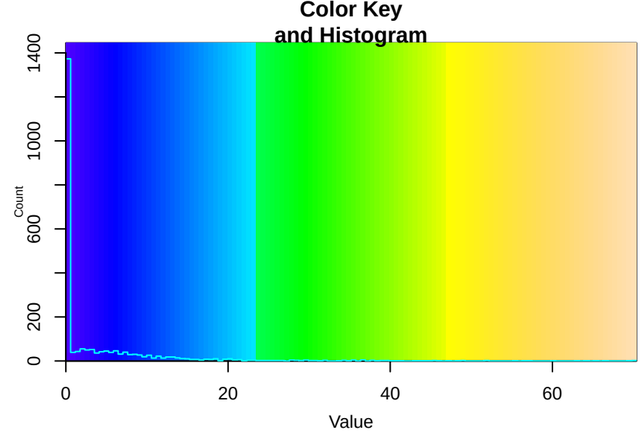
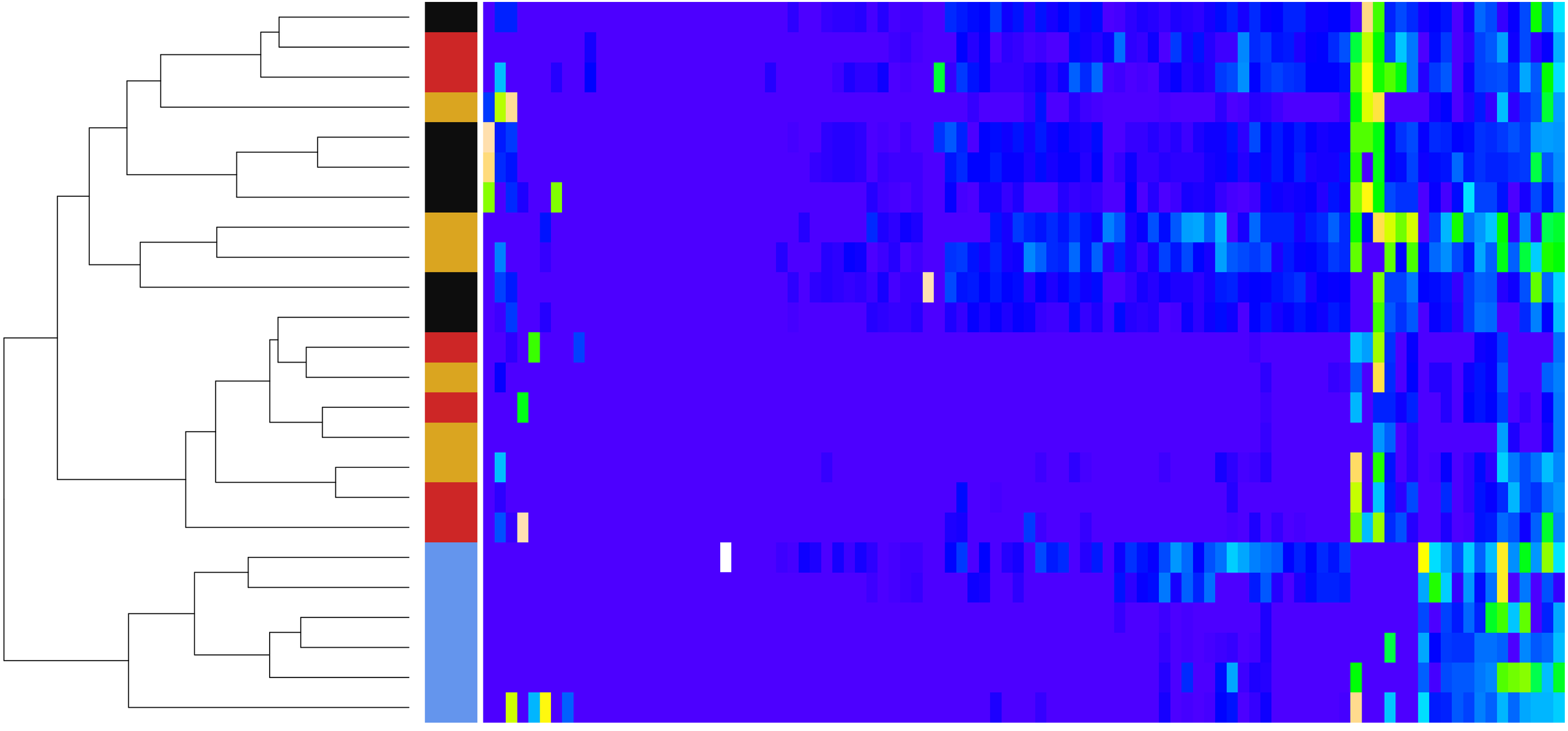
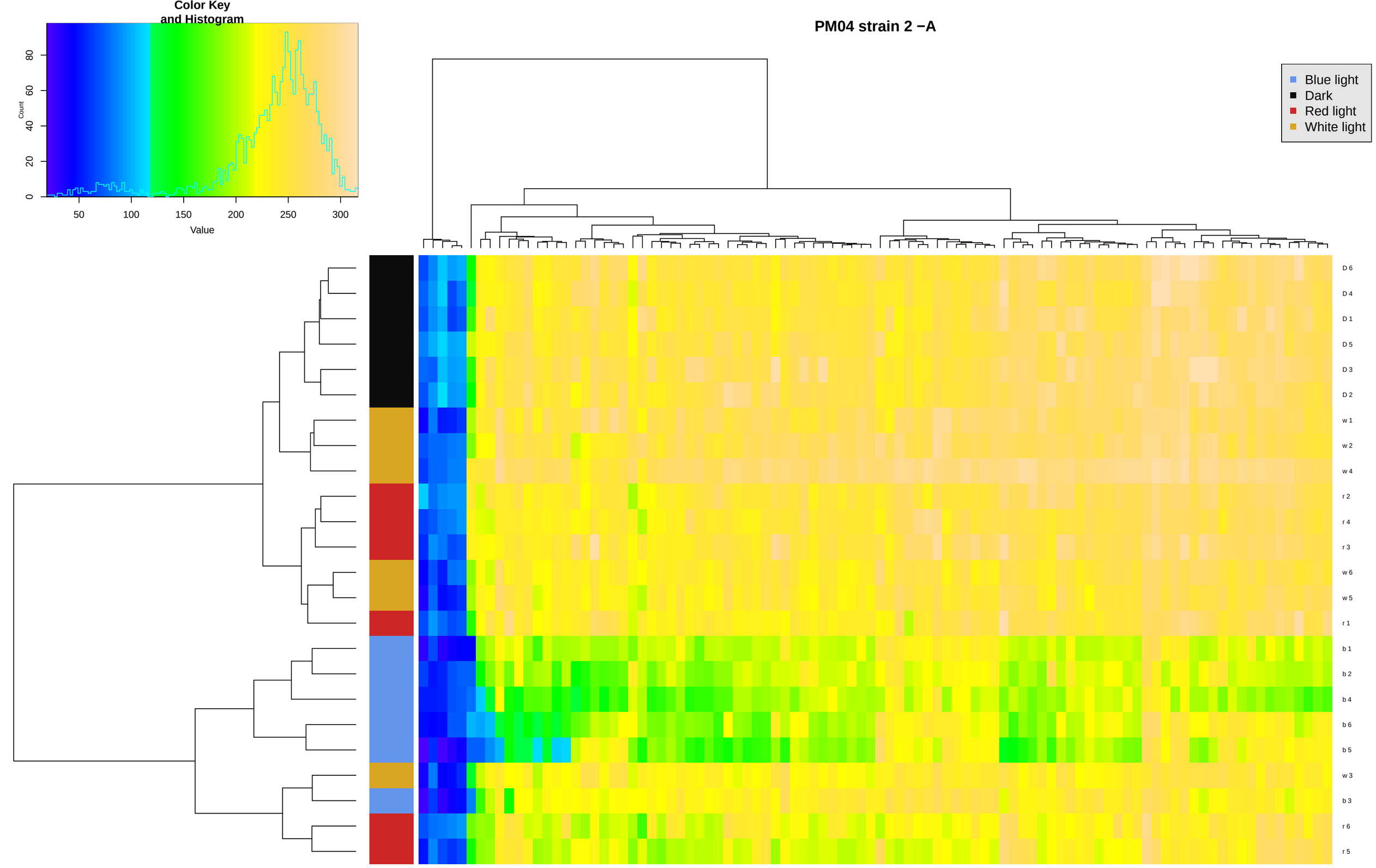




PM03 strain 2 −lambda

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Dark
Red light
White light
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D 5
D 3
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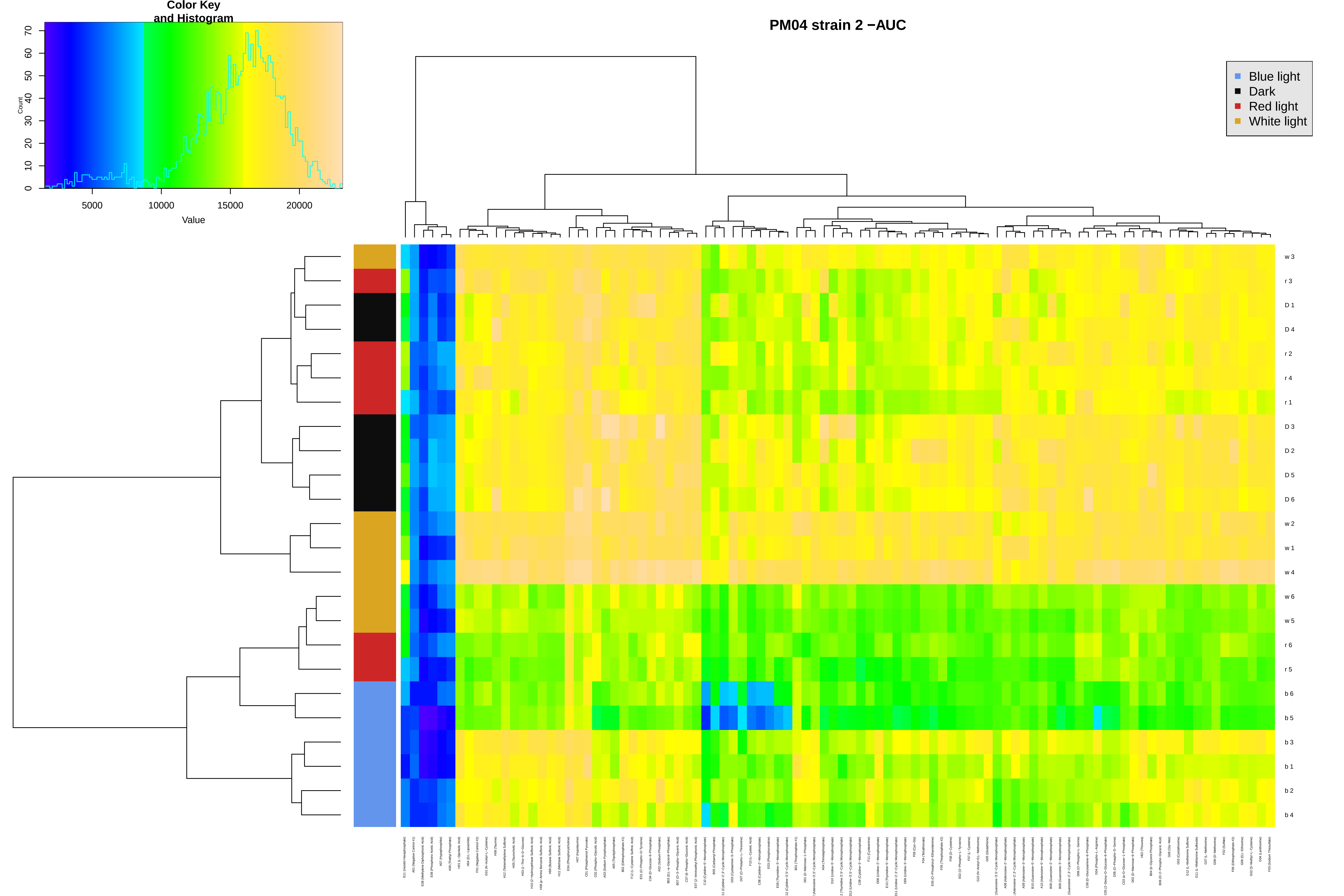
w 2
w 4
r 2
r 4
r 3
w 6
w 5
r 1
b 1
b 2
b 4
b 6
b 5
w 3
b 3
r 6
r 5
E08 (Methylene Diphosphonic Acid)
A01 (Negative Control #1)
E04 (Phosphonic Acid-Hexyl Ester, Acid)
A07 (Hypophosphite)
A06 (Methyl Phosphite)
E11 (Inositol Hexaphosphate)
C10 (Cytidine-5'-Monophosphate)
C11 (Cytidine-2',3'-Cyclic Monophosphate)
D03 (Cytidine-3'-Phosphate)
D07 (O-Phospho-L-Threonine)
E03 (Phosphocreatine)
C09 (Cytidine-2'-Monophosphate)
F10 (L-Cystatic Acid)
D11 (Uridine-2',3'-Cyclic Monophosphate)
D12 (Uridine-2',5'-Cyclic Monophosphate)
E09 (Thymidine-3'-Monophosphate)
(Guanosine-2',3'-Cyclic Monophosphate)
(Adenosine-2',3'-Cyclic Monophosphate)
A08 (Adenosine-2'-Monophosphate)
B10 (Guanosine-5'-Monophosphate)
A09 (Adenosine-3'-Monophosphate)
A10 (Adenosine-5'-Monophosphate)
F11 (Cystamine)
D01 (D-Mannose-1-Phosphate)
D10 (Uridine-5'-Monophosphate)
C09 (Cytidine-3'-Monophosphate)
E10 (Thymidine-5'-Monophosphate)
D08 (Uridine-2'-Monophosphate)
D12 (Uridine-2',5'-Cyclic Monophosphate)
2 (Thymidine 2',3'-Cyclic Monophosphate)
(Guanosine-2',3'-Cyclic Monophosphate)
B09 (Guanosine-3'-Monophosphate)
E05 (O-Phosphoryl-Ethanolamine)
F03 (Cys-Gly)
F04 (Theophosine)
D09 (Uridine-3'-Monophosphate)
F05 (Thiophosphate #2)
A04 (Trimetaphosphate)
H02 (Thiourea)
E02 (D-Phospho-L-Tyrosine)
G11 (L-Methionine Sulfoxide)
G12 (L-Methionine Sulfone)
G03 (Cystathionine)
G06 (β-L-Ethionine)
F08 (D-Cysteine)
G10 (N-Acetyl-DL-Methionine)
G05 (Glutathione)
F07 (L-Cysteine)
B01 (Thiophosphate #1)
H12 (Tetraethylene Sulfone)
H04 (DL-Lipoamide)
H05 (Tiuretacrilic Acid)
F02 (Negative Control #2)
G01 (N-Acetyl-L-Cysteine)
H01 (L-Glomatic Acid)
(Adenosine-2',5'-Cyclic Monophosphate)
H08 (p-Amino Benzene Sulfonic Acid)
H03 (1-Thio-α-D-Glucose)
H10 (2-Hydroxyethane Sulfonic Acid)
H09 (Butane Sulfonic Acid)
H11 (Methane Sulfonic Acid)
C02 (Phospho-Glycolic Acid)
D06 (Phospho-L-Arginine)
D05 (O-Phospho-D-Serine)
C05 (2'-Deoxy-D-Glucose-6-Phosphate)
B08 (Guanosine-2'-Monophosphate)
B05 (Carbamyl Phosphate)
B04 (β-Glycerol Phosphate)
F12 (L-Cysteine Sulfinic Acid)
G09 (Ely-Met)
G07 (L-Methionine)
G04 (Lanthionine)
B03 (Sodium Thiosulfate)
F02 (Sulfate)
G02 (S-Methyl-L-Cysteine)
F06 (Ethylphosphate #2)
E06 (Phosphorylcholine)
C01 (Phosphorylated Pyruvate)
H06 (Taurine)
B07 (D-3-Phospho-Glyceric Acid)
H07 (Hypotaurine)
A03 (Sodium Pyrophosphate)
A05 (Tripolyphosphate)
A02 (Sodium Phosphite)
B02 (Ethylphosphate #1)
G08 (D-Methionine)
E01 (O-Phospho-D-Tyrosine)
B06 (D-2-Phospho-Glyceric Acid)
E07 (1-Aminoethyl Phosphonic Acid)
C04 (D-Glucose-6-Phosphate)
C07 (6-Phospho-Gluconic Acid)
B03 (D-Lactose-6-Phosphate)
C06 (β-Glucosamine-6-Phosphate)
C03 (α-D-Glucose-1-Phosphate)
D02 (D-Mannose-6-Phosphate)
D04 (O-Phospho-L-Serine)



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20000
Blue light
Dark
Red light
White light
w 3
r 3
D 1
D 4
r 2
r 4
r 1
D 3
D 2
D 5
D 6
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w 1
w 4
w 6
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r 6
r 5
b 6
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b 3
b 1
b 2
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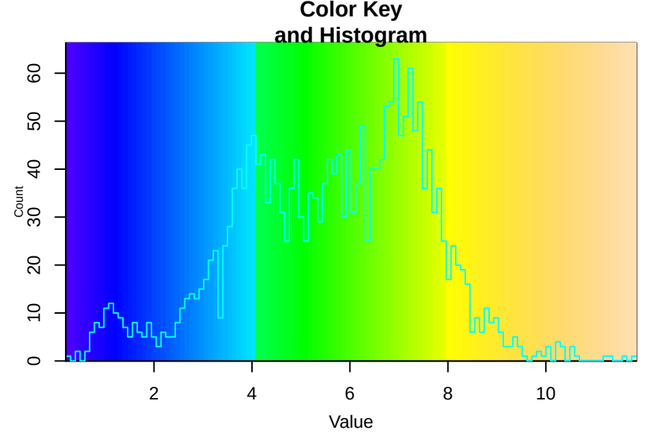
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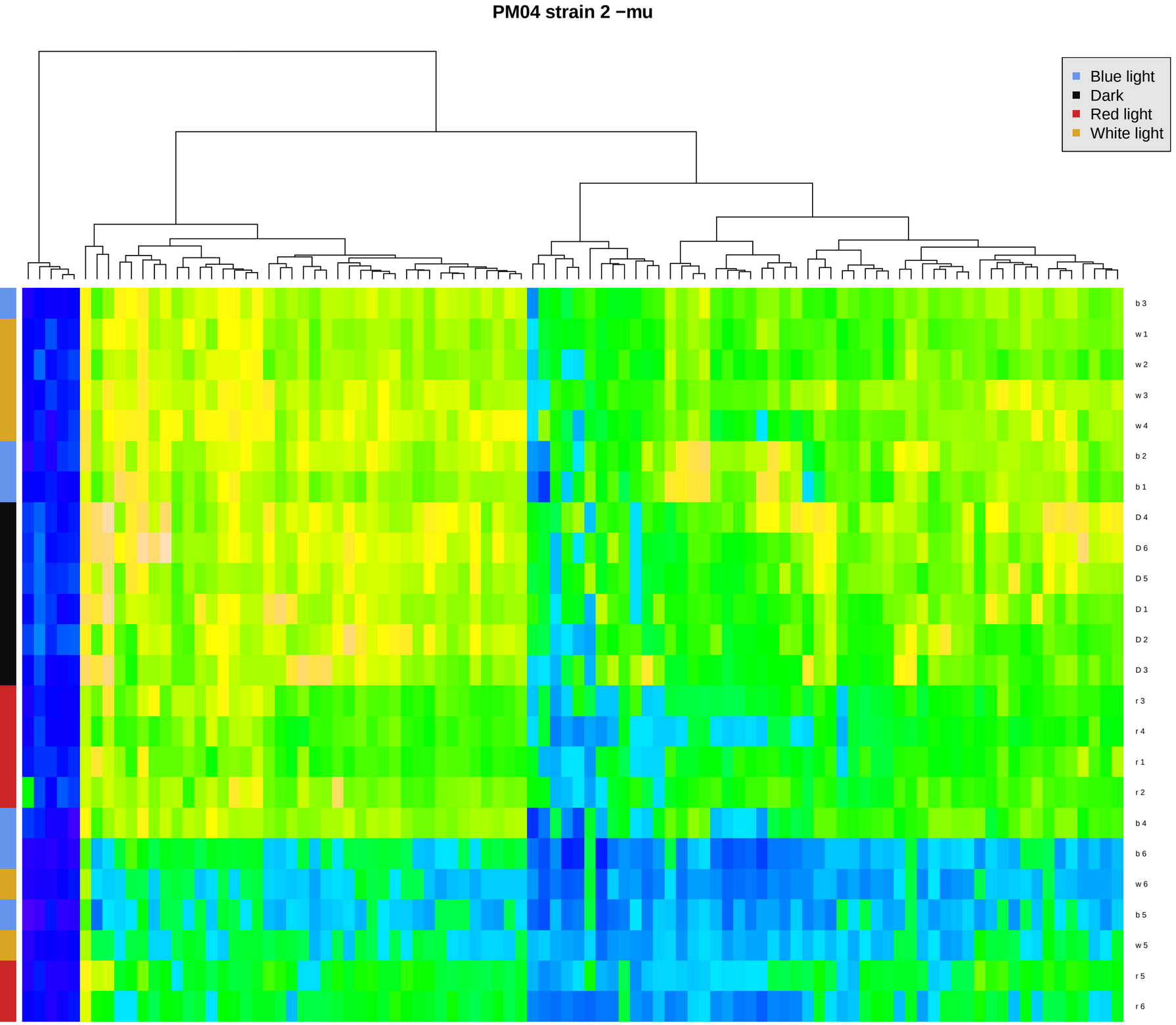
PM04 strain 2 −mu
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Dark
Red light
White light
b 3
w 1
w 2
w 3
w 4
b 2
b 1
D 4
D 6
D 5
D 1
D 2
D 3
r 3
r 4
r 1
r 2
b 4
b 6
w 6
b 5
w 5
r 5
r 6
E08 (Methylene Diphosphonic Acid)
E04 (Phosphinic Acetic Acid)
A01 (Negative Control #1)
A07 (Thymidylic Acid)
A06 (Methyl Phosphate)
E04 (Phosphorylcholine)
C02 (Phospho-Glycolic Acid)
E07 / C2 (Ankaferd by Phosphatidic Acid)
B08 (D,L-α-Glycerol Phosphate)
C01 (Phosphoenol Pyruvate)
H07 (Hypotaurine)
H02 (Thiourea)
H05 (Taurine)
H04 (D/L-Lipoamide)
H01 & (Glycolic Acid)
H12 (Tetramethylene Sulfone)
G01 (N-Acetyl-L-Cysteine)
H08 (p-Amino Benzene Sulfonic Acid)
H06 (Taurocholic Acid)
F01 (Negative Control #2)
H03 / I1 (Thio-bis-D-Glucose)
C04 (D-Glucose-6-Phosphate)
G09 (Cys-Met)
F12 (L-Cysteine Sulfinic Acid)
A02 (Sodium Phosphate)
G11 (L-Methionine Sulfoxide)
G03 (Cystathionine)
G07 (L-Methionine)
F06 (Ethanolphosphate #2)
G02 (S-Methyl-L-Cysteine)
G08 (D-Methionine)
F03 (Sodium Thiosulfate)
G06 (D,L-Ethionine)
F05 (Thiophosphate #2)
D04 (Phospho-L-Arginine)
E05 (O- Phosphoryl-Ethanolamine)
H11 (Methane Sulfonic Acid)
H10 (2-Hydroxyethane Sulfonic Acid)
H09 (Butane Sulfonic Acid)
F07 (L- Cysteine)
F04 (Tetrathionate)
F02 (Sulfate)
G05 (Glutathione)
G04 (Lanthionine)
B05 (Carbamyl Phosphate)
E11 (Inositol Hexaphosphate)
C09 (Cytidine-2'-Monophosphate)
C10 (Cytidine-5'-Monophosphate)
(Guanosine-2',3'-Cyclic Monophosphate)
B01 (Thiophosphate #1)
11 (Cytidine-2',3'-Cyclic Monophosphate)
A03 (Sodium Pyrophosphate)
F10 (L-Cystein Acid)
A04 (Trimetaphosphate)
D12 Cytidine-2',3'- Cyclic Monophosphate)
D10 (Uridine-2'-Monophosphate)
D01 (D-Mannose-1-Phosphate)
D11 Cytidine-2',3'-Cyclic Monophosphate)
D09 (Uridine-3'-Monophosphate)
D08 (Uridine-2'-Monophosphate)
A08 (Adenosine-5'-Monophosphate)
B10 (Guanosine-2'-Monophosphate)
12 (Cytidine-2',3'-Cyclic Monophosphate)
(Guanosine-2',3'-Cyclic Monophosphate)
(Adenosine-2',3'-Cyclic Monophosphate)
A09 (Adenosine-3'-Monophosphate)
B09 (Guanosine-3'-Monophosphate)
A06 (Adenosine-2'-Monophosphate)
2 (Thymidine-3',5'-Cyclic Monophosphate)
E03 (Phosphocreatine)
G12 (L-Methionine Sulfone)
C08 (Cytidine-2'-Monophosphate)
(Adenosine-3',5'-Cyclic Monophosphate)
D07 (D -Phospho-L-Threonine)
E10 (Thymidine-3'-Monophosphate)
E09 (Thymidine-5'-Monophosphate)
A05 (Triethylphosphate)
B02 (Ethiophosphate #1)
B08 (Guanosine-2'-Monophosphate)
F11 (Cystamine)
F09 (Cys-Cys)
F08 (D-Cysteine)
G10 (N-Acetyl-DL-Methionine)
D03 (β-Cyclohexose-5-Phosphate)
C03 (α -D-Glucose-1- Phosphate)
B06 (D-2-Phospho-Glyceric Acid)
B04 (β-Glycerol Phosphate)
D02 (D-Mannose-6-Phosphate)
E01 (O- Phospho- D- Tyrosine)
B07 (D-3-Phospho-Glyceric Acid)
D05 (O-Phospho-D-Serine)
C07 (6 -Phospho -Gluconic Acid)
C05 (6- Glucosamine-6-Phosphate)
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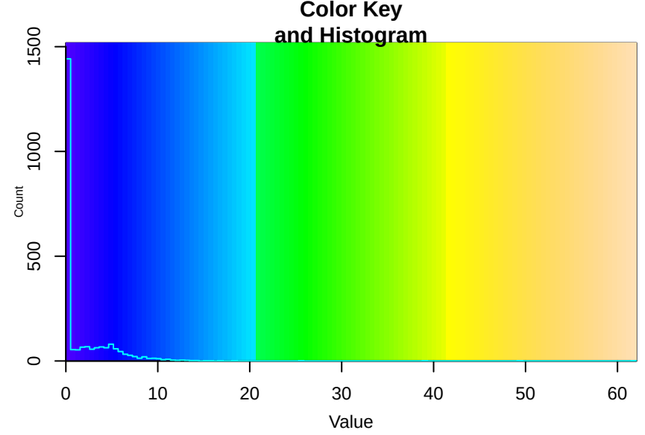
C06 (2-Deoxy-D-Glucose-6-Phosphate)
D06 (O-Phospho-L- Serine)



PM04 strain 2 −lambda