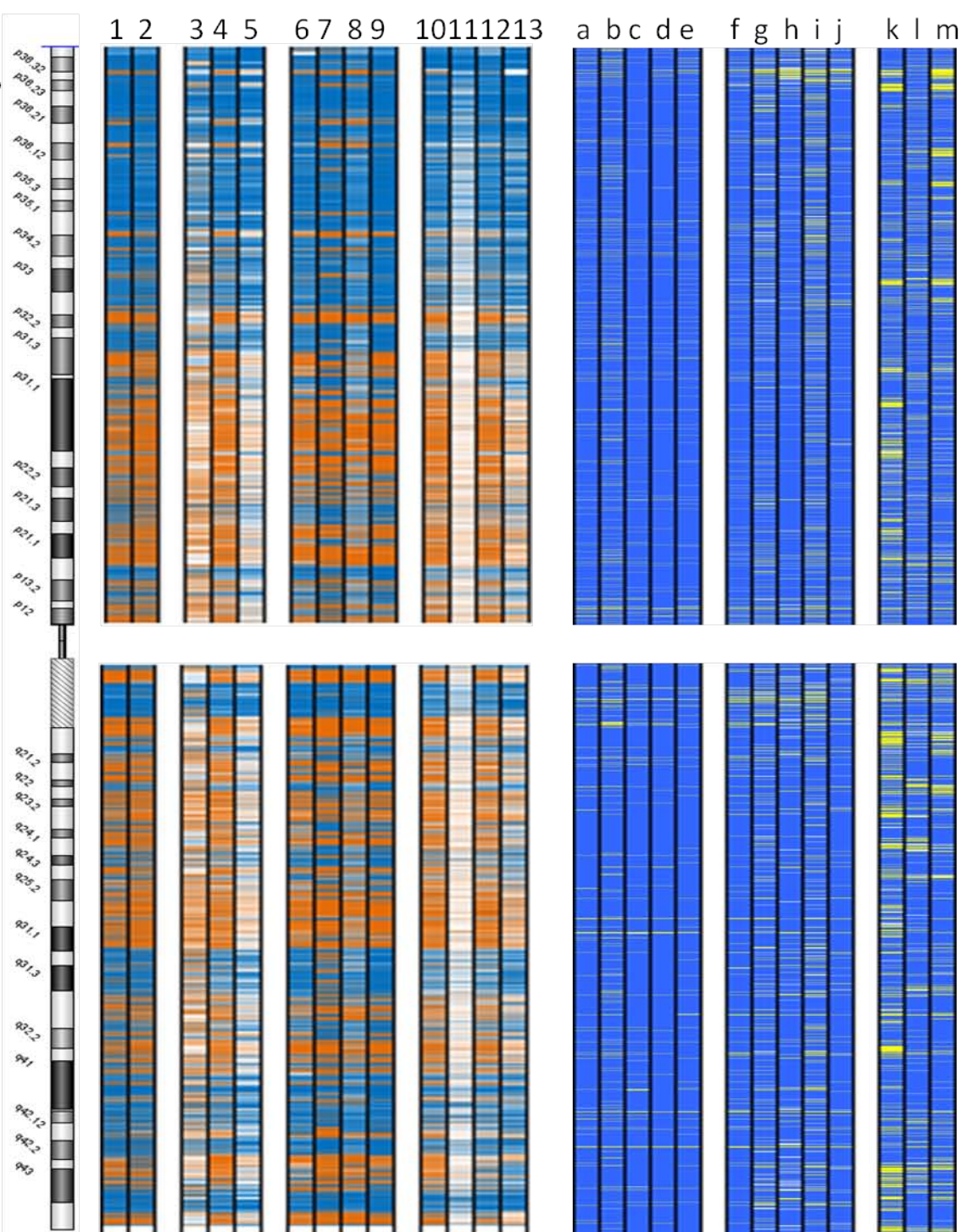


1

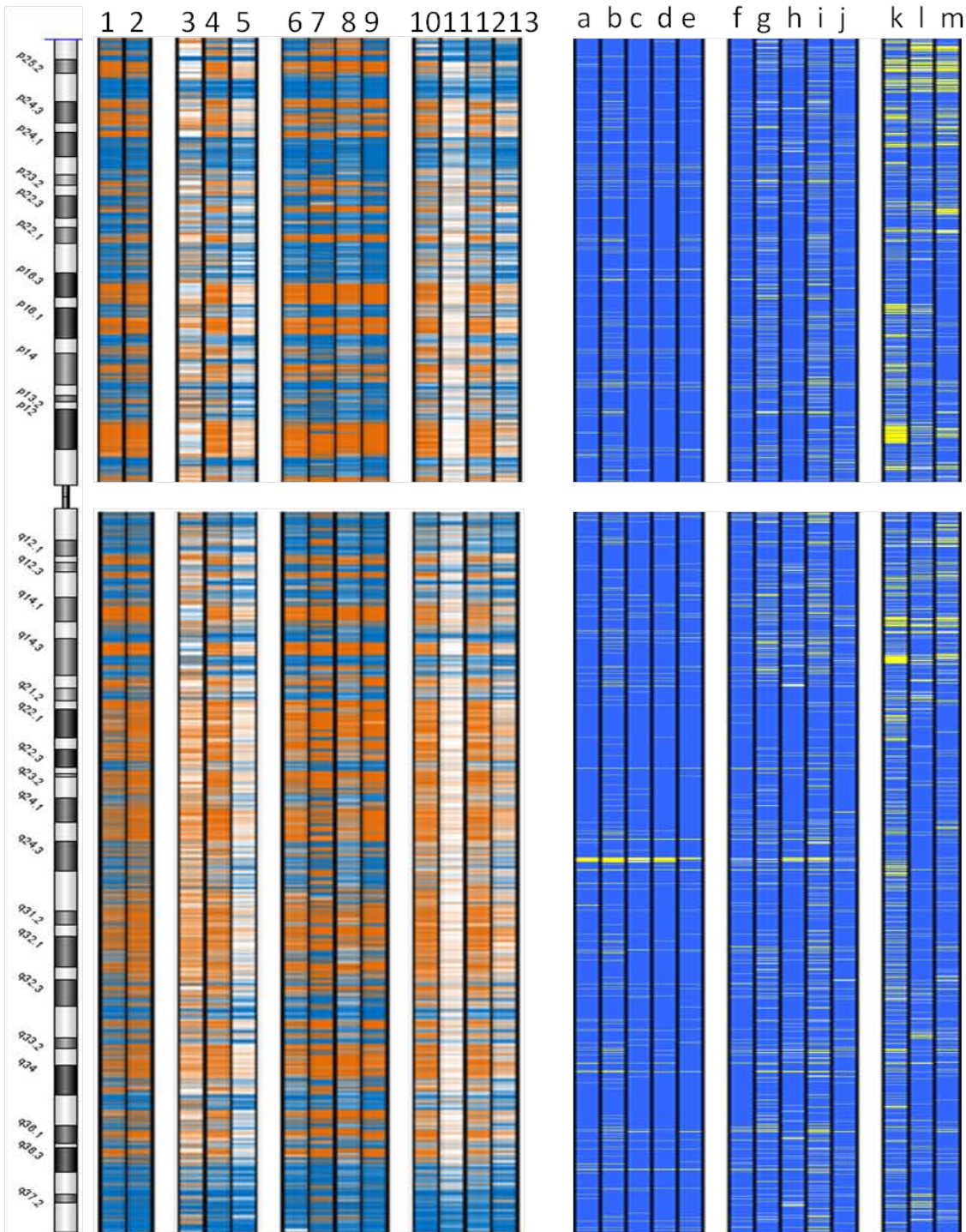
McrBC method

- 1: FaDu HIF
- 2: Fadu
- 3: Malhavu
- 4: CL15
- 5: MDA-MB-231
- 6: MCF7
- 7: HepG2
- 8: huh7
- 9: CL10
- 10: breast tumor tissue
- 11: brain tumor tissue(no.RT619)
- 12: brain tumor tissue(no.t891)
- 13: brain tumor tissue(no.RT297)

TspRI-ExoIII method

- a: brain normal tissue
- b: leukocyte normal tissue
- c: testis normal tissue
- d: liver normal tissue
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- f: breast tumor tissue (no. 146)
- g: breast tumor tissue (no. 125)
- h: breast tumor tissue (no. 93)
- i: breast tumor tissue (no. 89)
- j: brain tumor tissue (no. SIR)
- k: MCF7
- l: MDA-MB-231
- m: HeLa

2

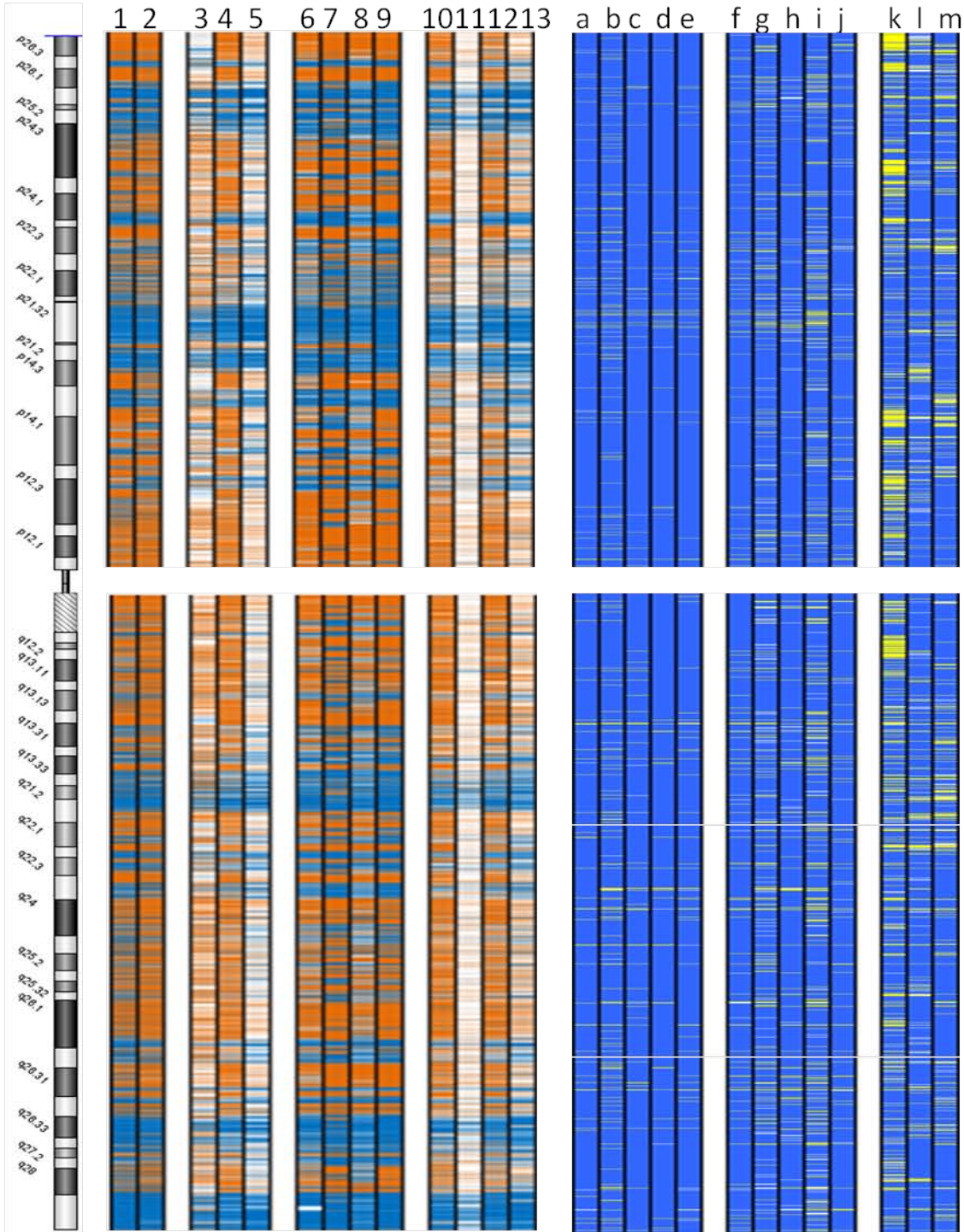


McrBC method

- 1: FaDu HIF
- 2: Fadu
- 3: Malhavu
- 4: CL15
- 5: MDA-MB-231
- 6: MCF7
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- i: breast tumor tissue (no. 89)
- j: brain tumor tissue (no. SIR)
- k: MCF7
- l: MDA-MB-231
- m: HeLa

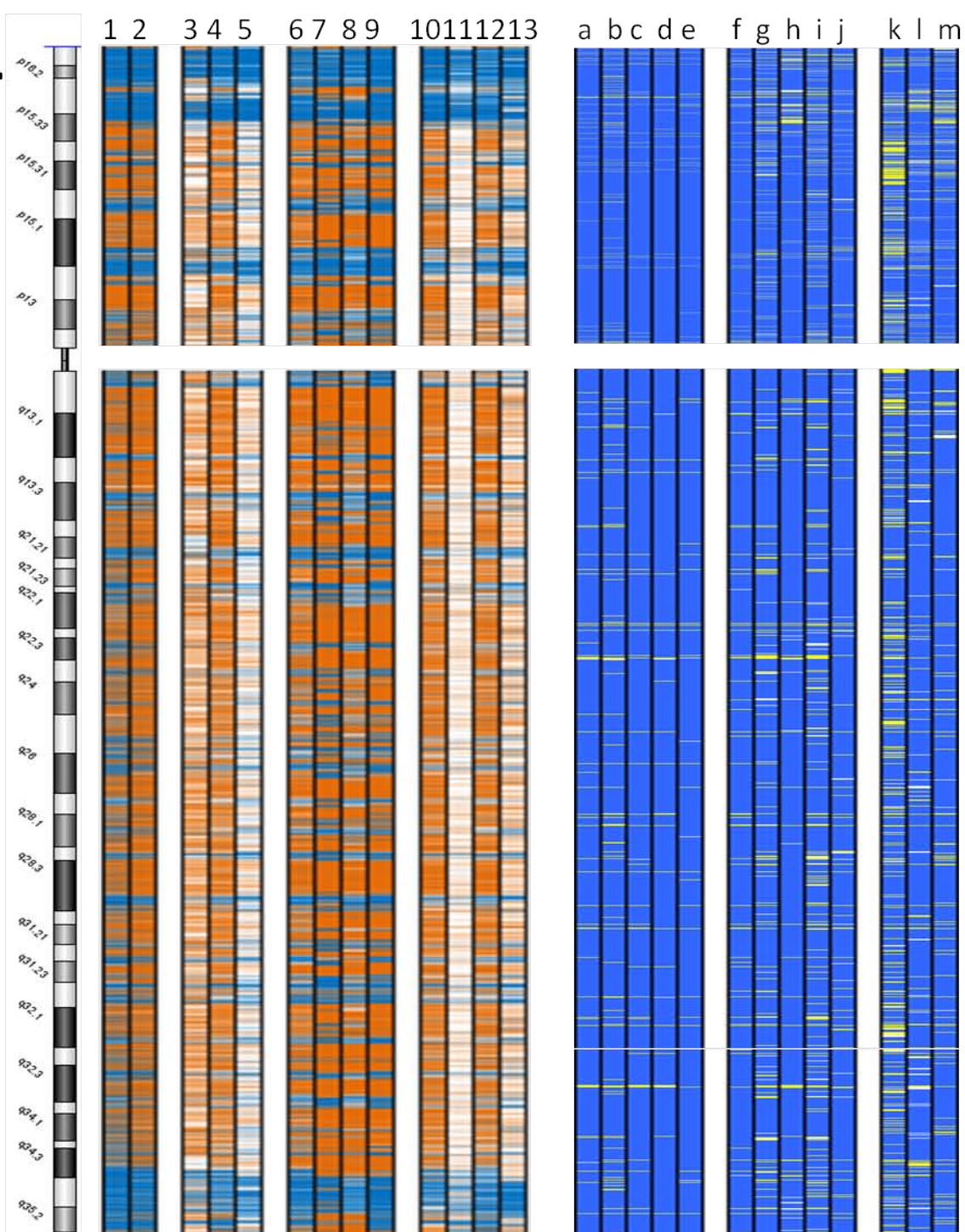
3**McrBC method**

- 1: FaDu HIF
- 2: Fadu
- 3: Malhavu
- 4: CL15
- 5: MDA-MB-231
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- k: MCF7
- l: MDA-MB-231
- m: HeLa

4



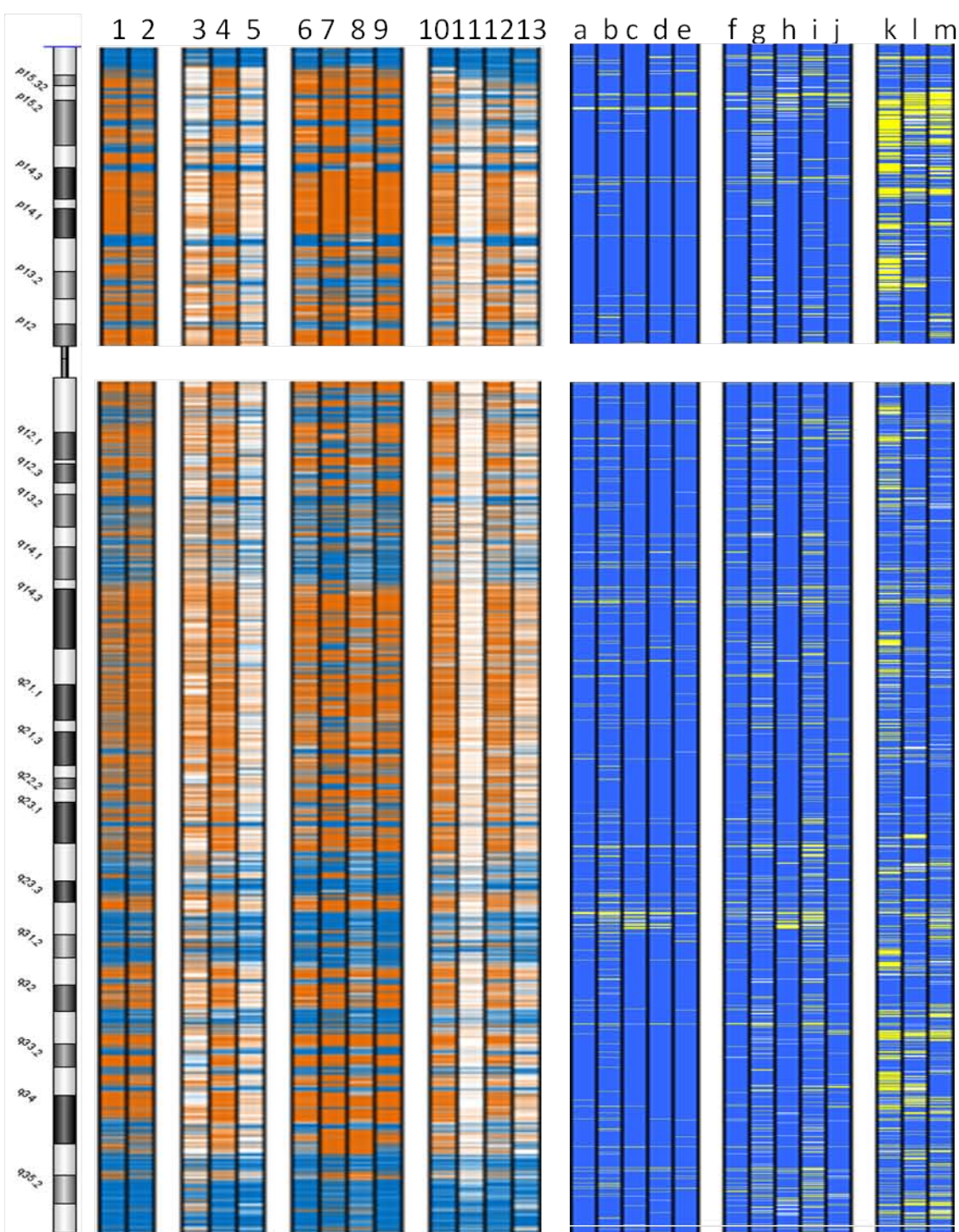
McrBC method

- 1: FaDu HIF
- 2: Fadu
- 3: Malhavu
- 4: CL15
- 5: MDA-MB-231
- 6: MCF7
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- l: MDA-MB-231
- m: HeLa

5



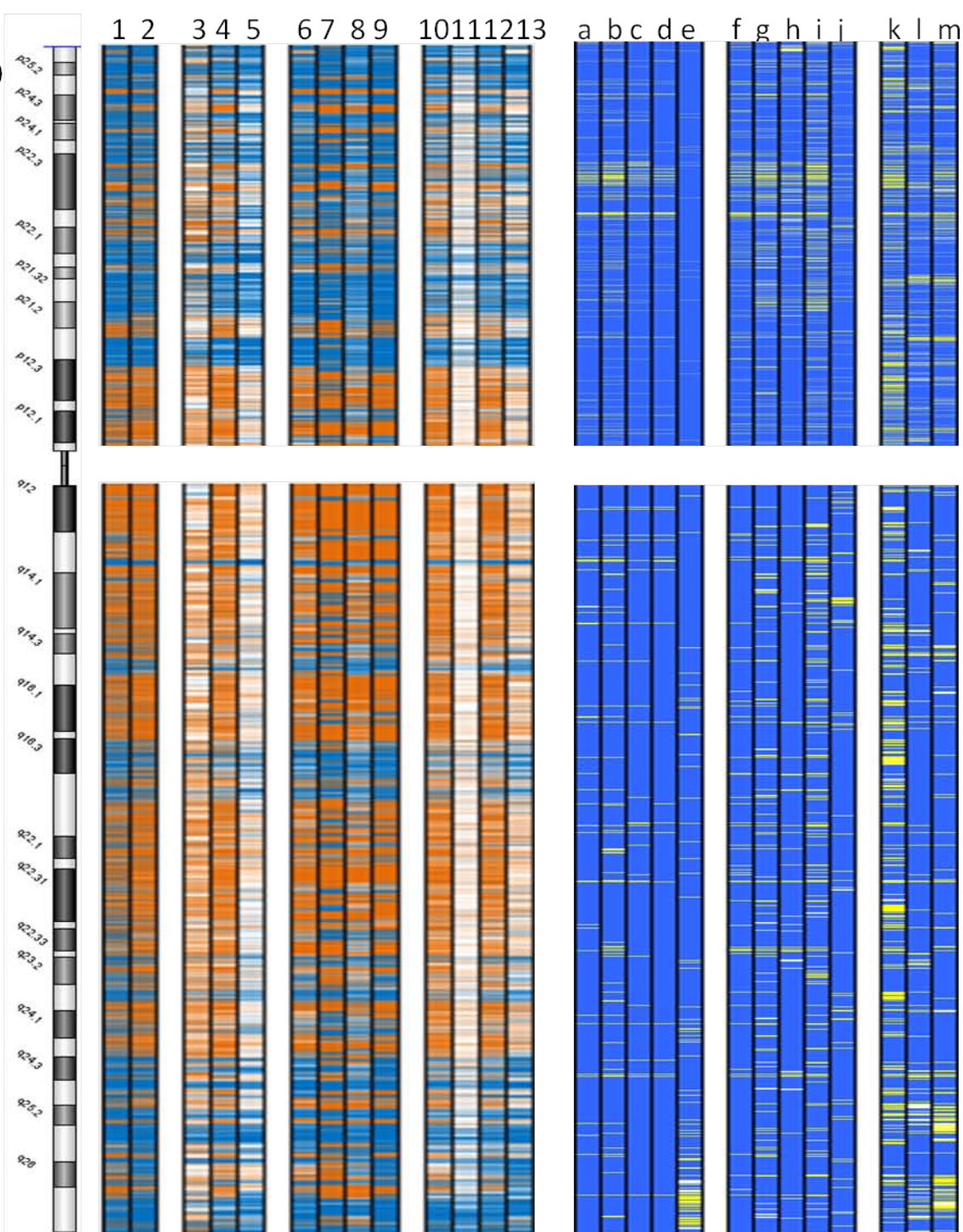
McrBC method

- 1: FaDu HIF
- 2: Fadu
- 3: Malhavu
- 4: CL15
- 5: MDA-MB-231
- 6: MCF7
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- i: breast tumor tissue (no. 89)
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- k: MCF7
- l: MDA-MB-231
- m: HeLa

6



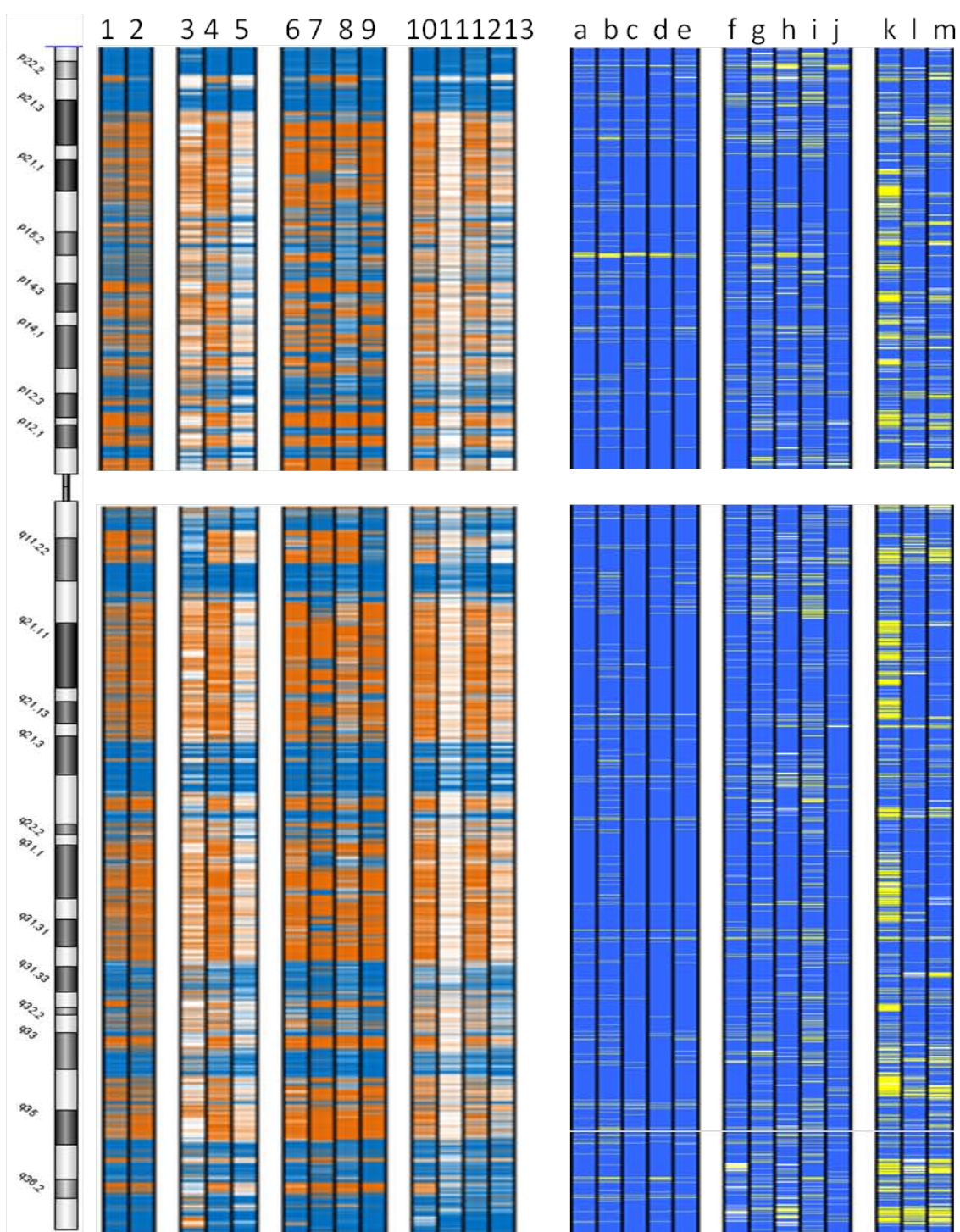
McrBC method

- 1: FaDu HIF
- 2: Fadu
- 3: Malhavu
- 4: CL15
- 5: MDA-MB-231
- 6: MCF7
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- j: brain tumor tissue (no. SIR)
- k: MCF7
- l: MDA-MB-231
- m: HeLa

7



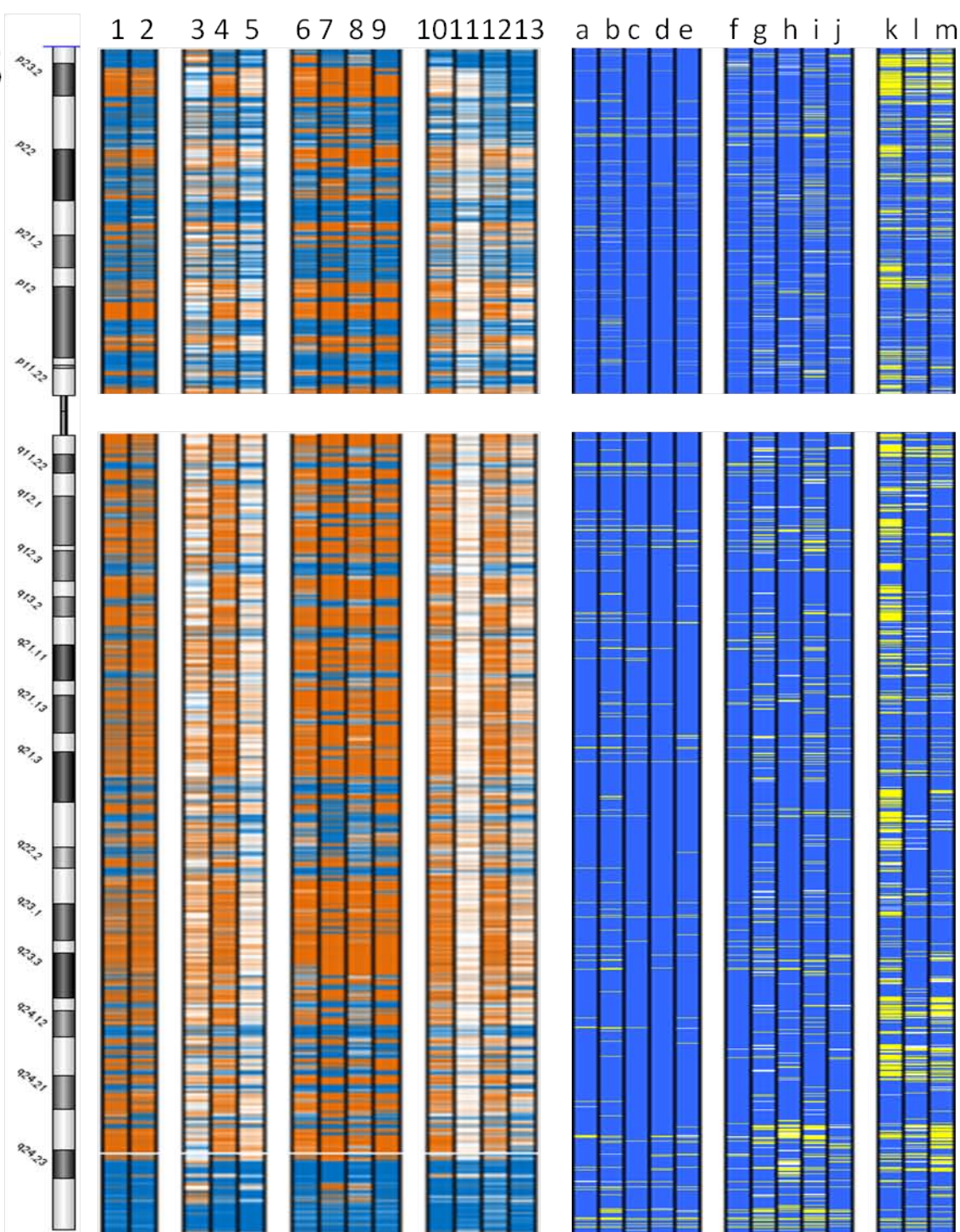
McrBC method

- 1: FaDu HIF
- 2: Fadu
- 3: Malhavu
- 4: CL15
- 5: MDA-MB-231
- 6: MCF7
- 7: HepG2
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- k: MCF7
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- m: HeLa

8



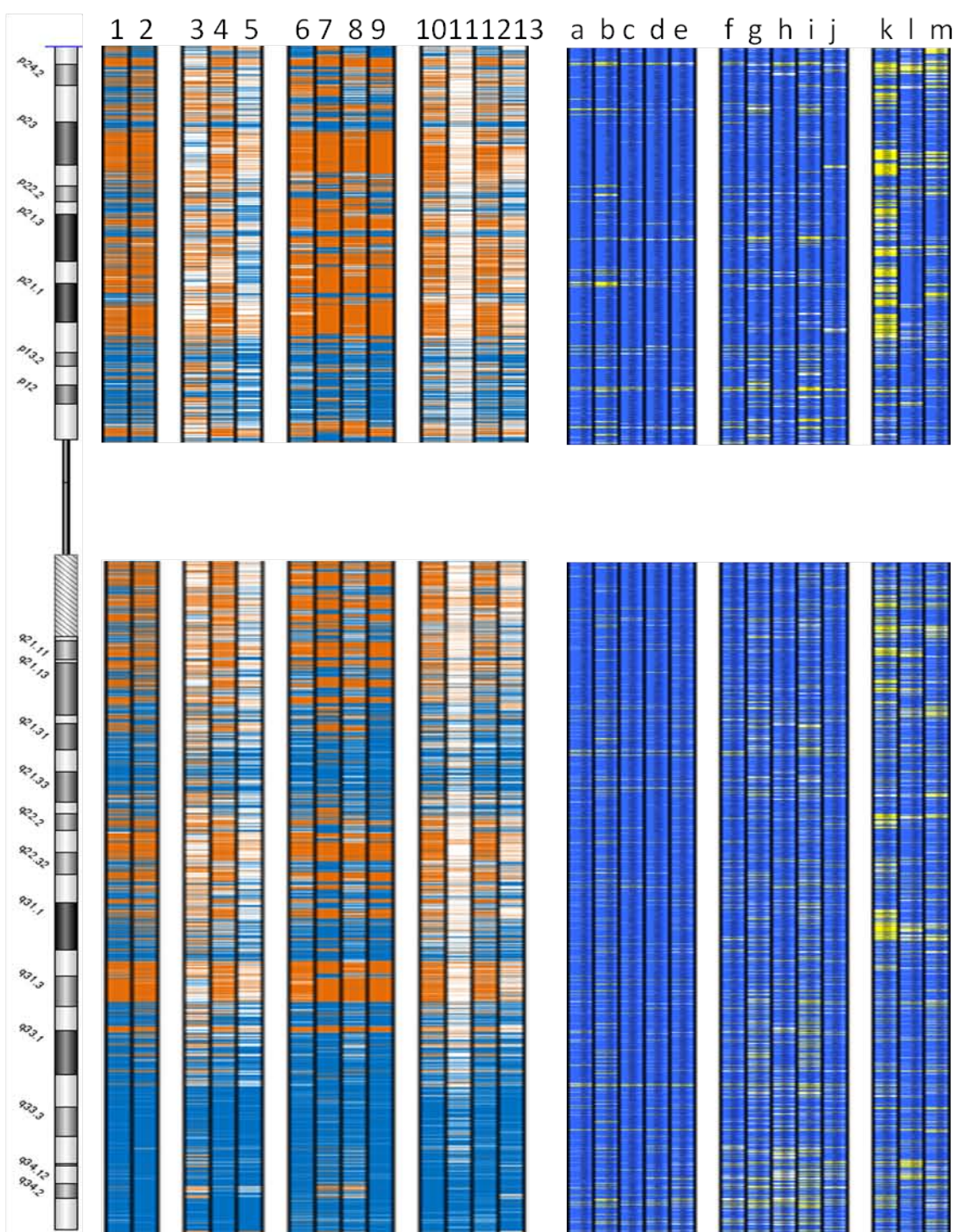
McrBC method

- 1: FaDu HIF
- 2: Fadu
- 3: Malhavu
- 4: CL15
- 5: MDA-MB-231
- 6: MCF7
- 7: HepG2
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9



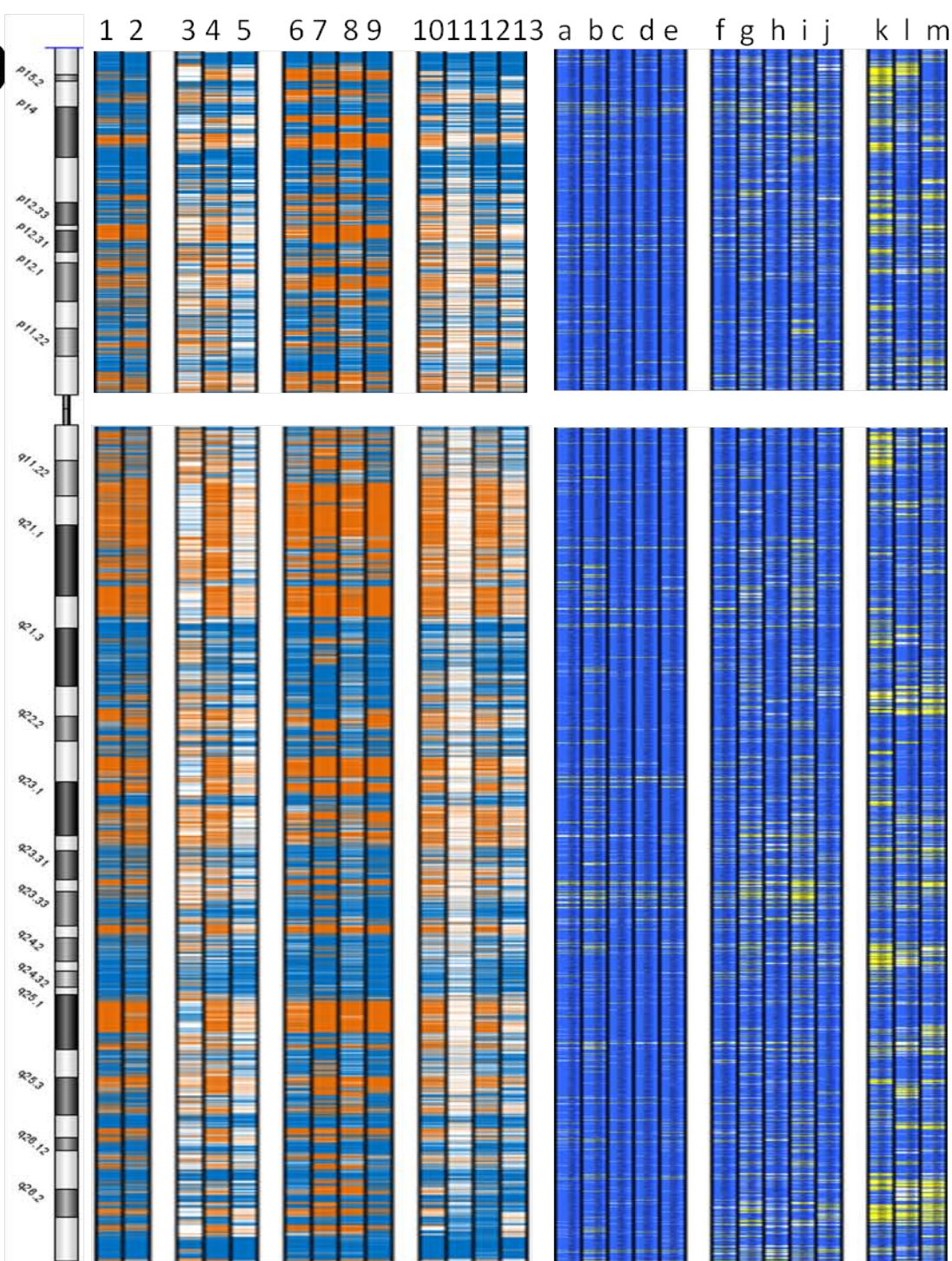
McrBC method

- 1: FaDu HIF
- 2: Fadu
- 3: Malhavu
- 4: CL15
- 5: MDA-MB-231
- 6: MCF7
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- k: MCF7
- l: MDA-MB-231
- m: HeLa

10



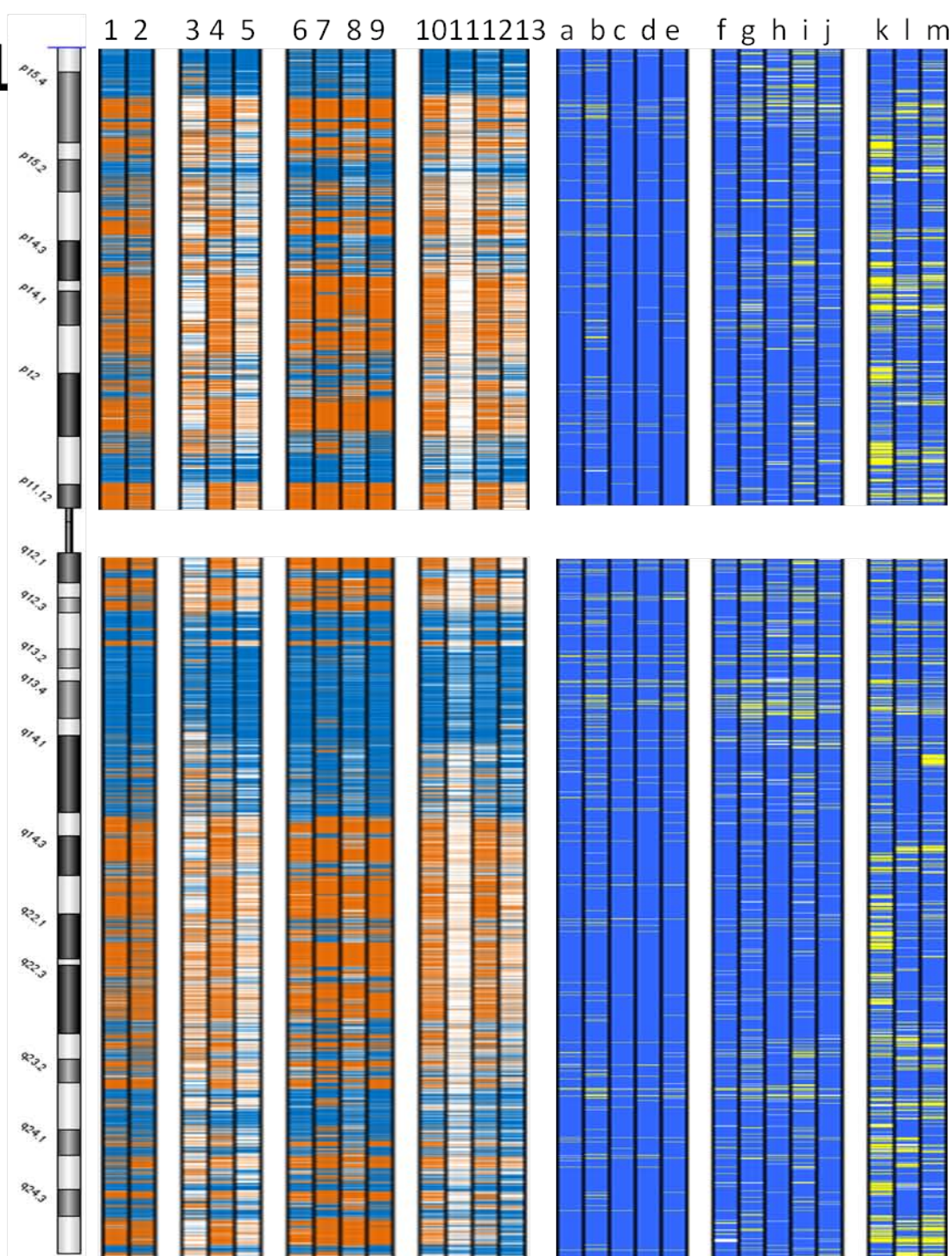
McrBC method

- 1: FaDu HIF
- 2: Fadu
- 3: Malhavu
- 4: CL15
- 5: MDA-MB-231
- 6: MCF7
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- k: MCF7
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11



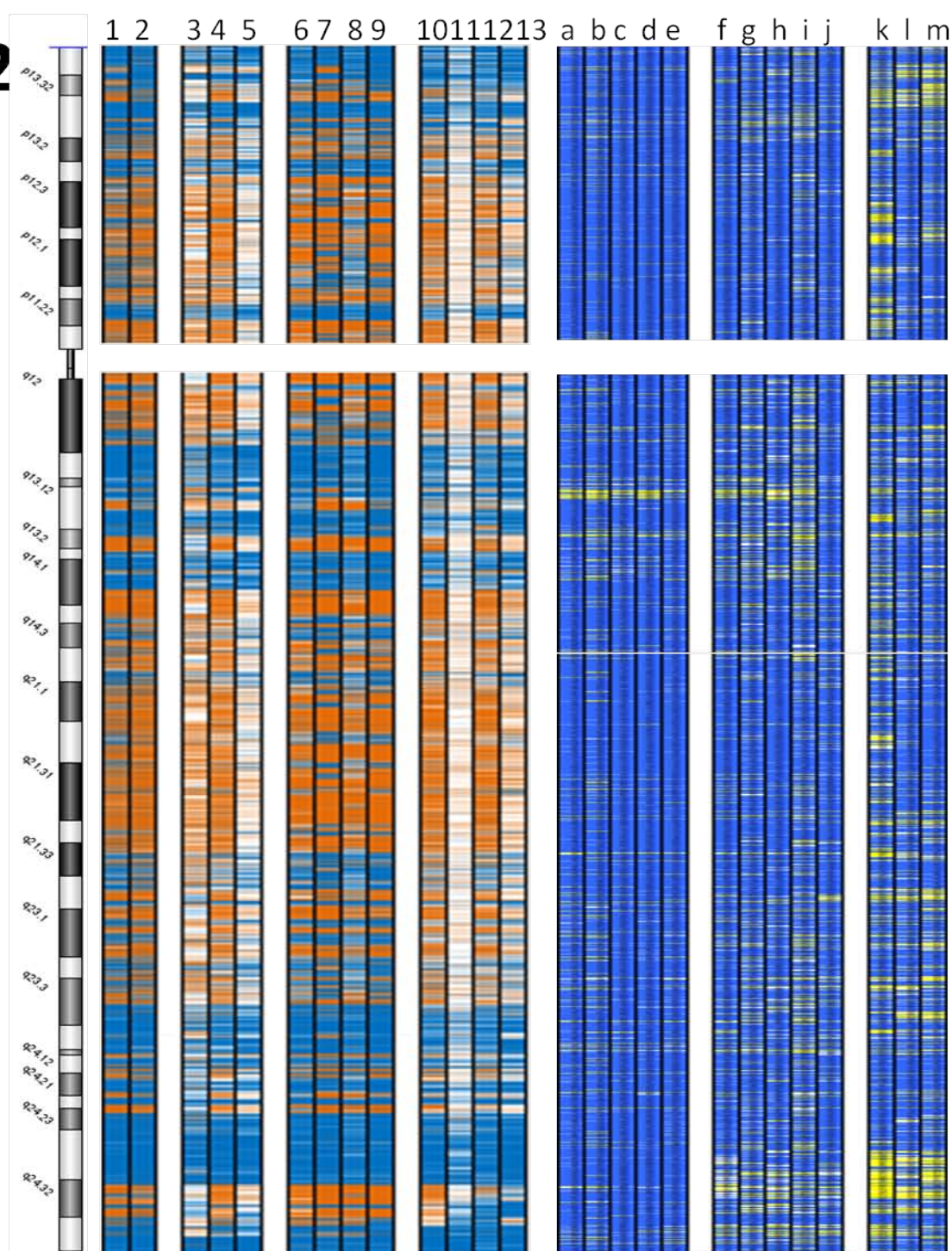
McrBC method

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- 2: Fadu
- 3: Malhavu
- 4: CL15
- 5: MDA-MB-231
- 6: MCF7
- 7: HepG2
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12



McrBC method

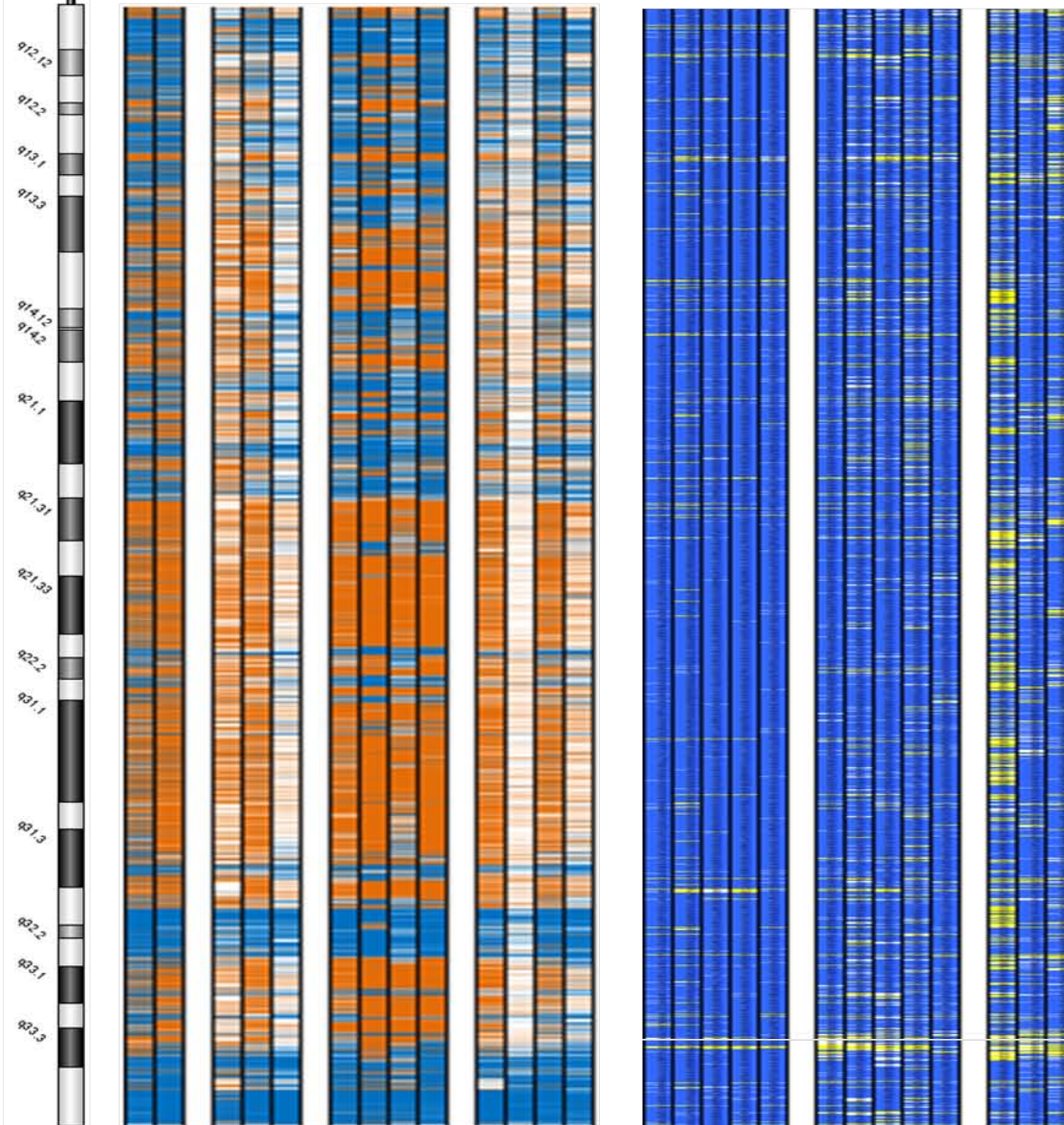
- 1: FaDu HIF
- 2: Fadu
- 3: Malhavu
- 4: CL15
- 5: MDA-MB-231
- 6: MCF7
- 7: HepG2
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- k: MCF7
- l: MDA-MB-231
- m: HeLa

13

1 2 3 4 5 6 7 8 9 10 11 12 13 a b c d e f g h i j k l m



McrBC method

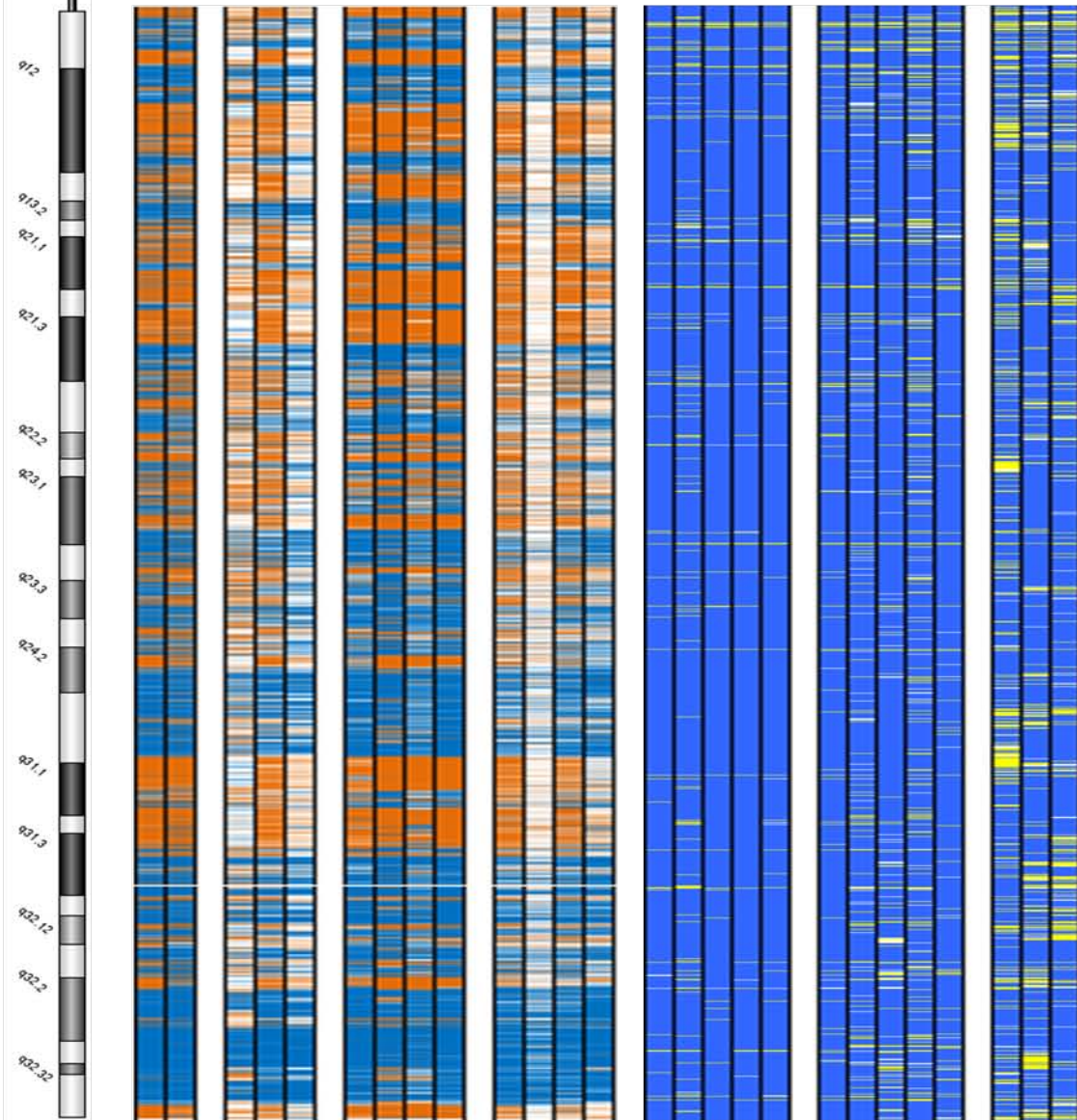
- 1: FaDu HIF
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- 3: Malhavu
- 4: CL15
- 5: MDA-MB-231
- 6: MCF7
- 7: HepG2
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14

1 2 3 4 5 6 7 8 9 10 11 12 13 a b c d e f g h i j k l m



McrBC method

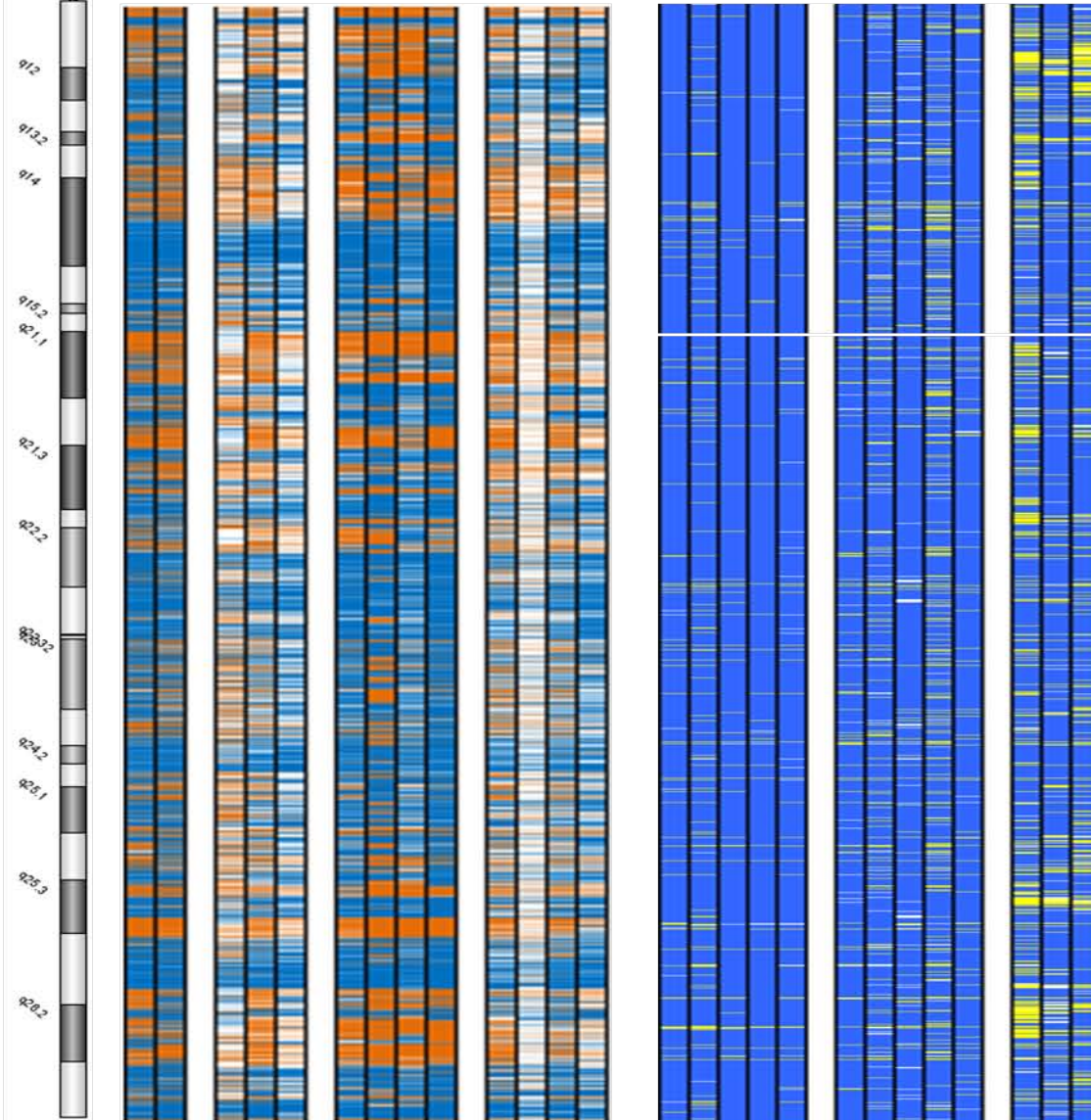
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- 3: Malhavu
- 4: CL15
- 5: MDA-MB-231
- 6: MCF7
- 7: HepG2
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15

1 2 3 4 5 6 7 8 9 10 11 12 13 a b c d e f g h i j k l m



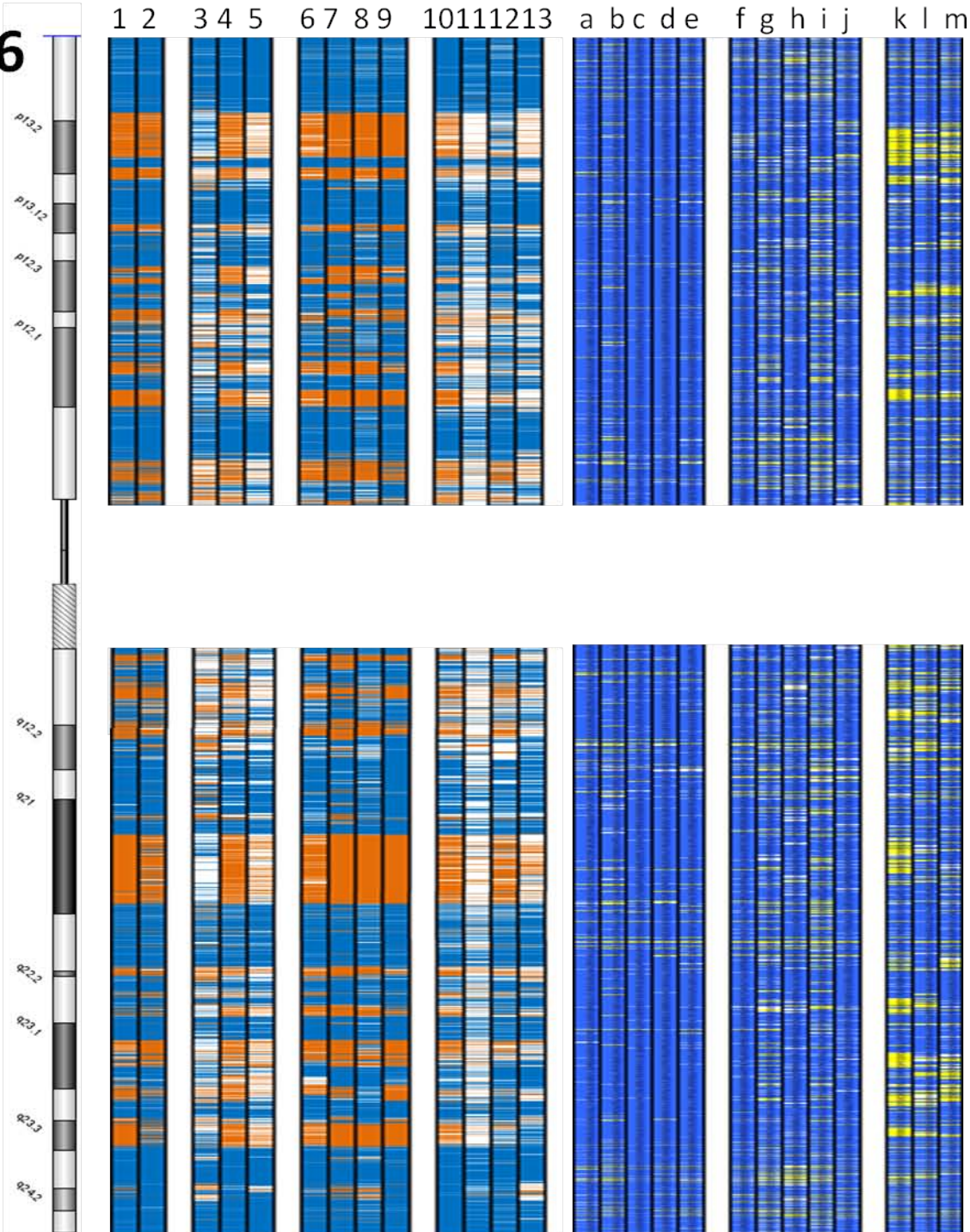
McrBC method

- 1: FaDu HIF
- 2: Fadu
- 3: Malhavu
- 4: CL15
- 5: MDA-MB-231
- 6: MCF7
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16



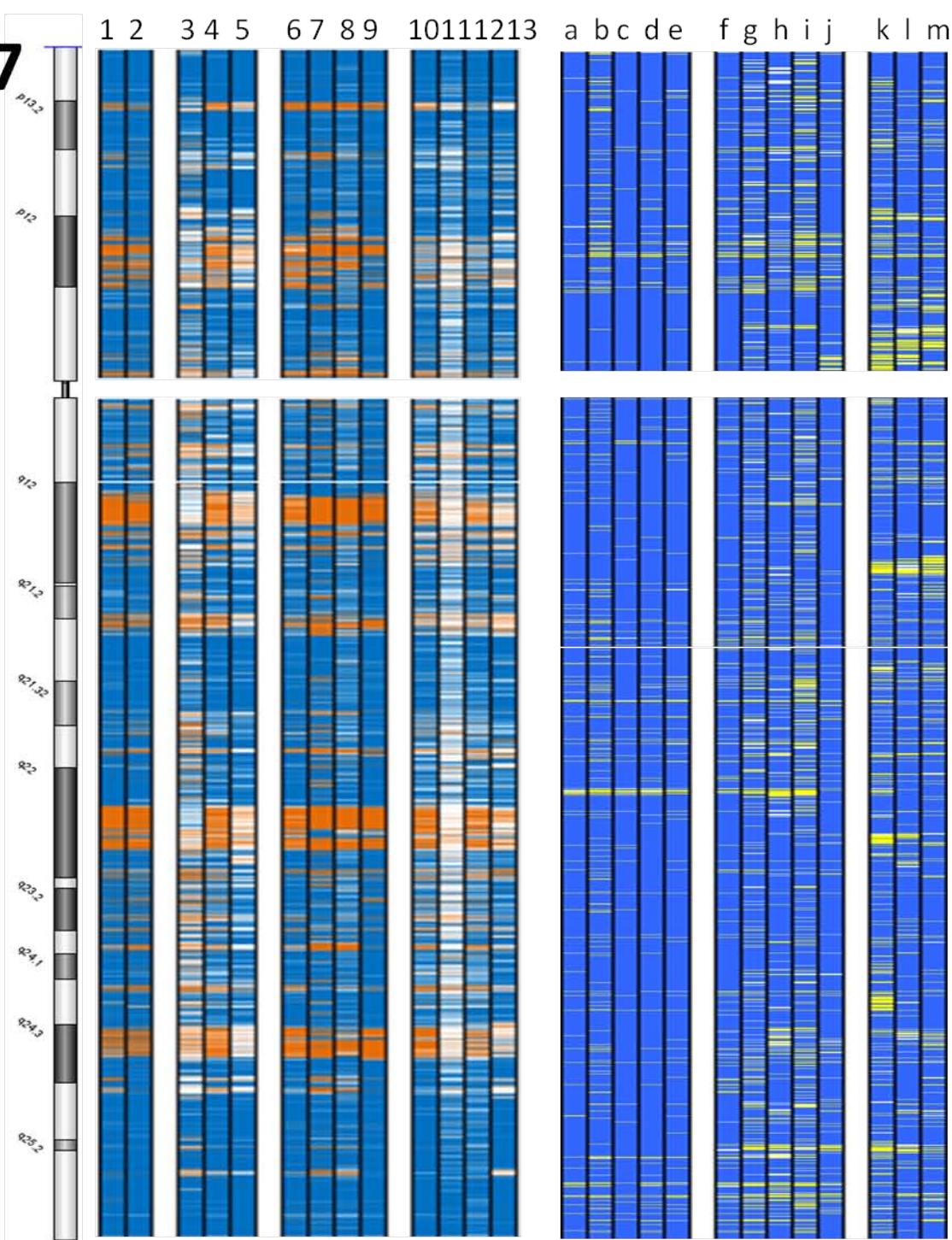
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- 1: FaDu HIF
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17



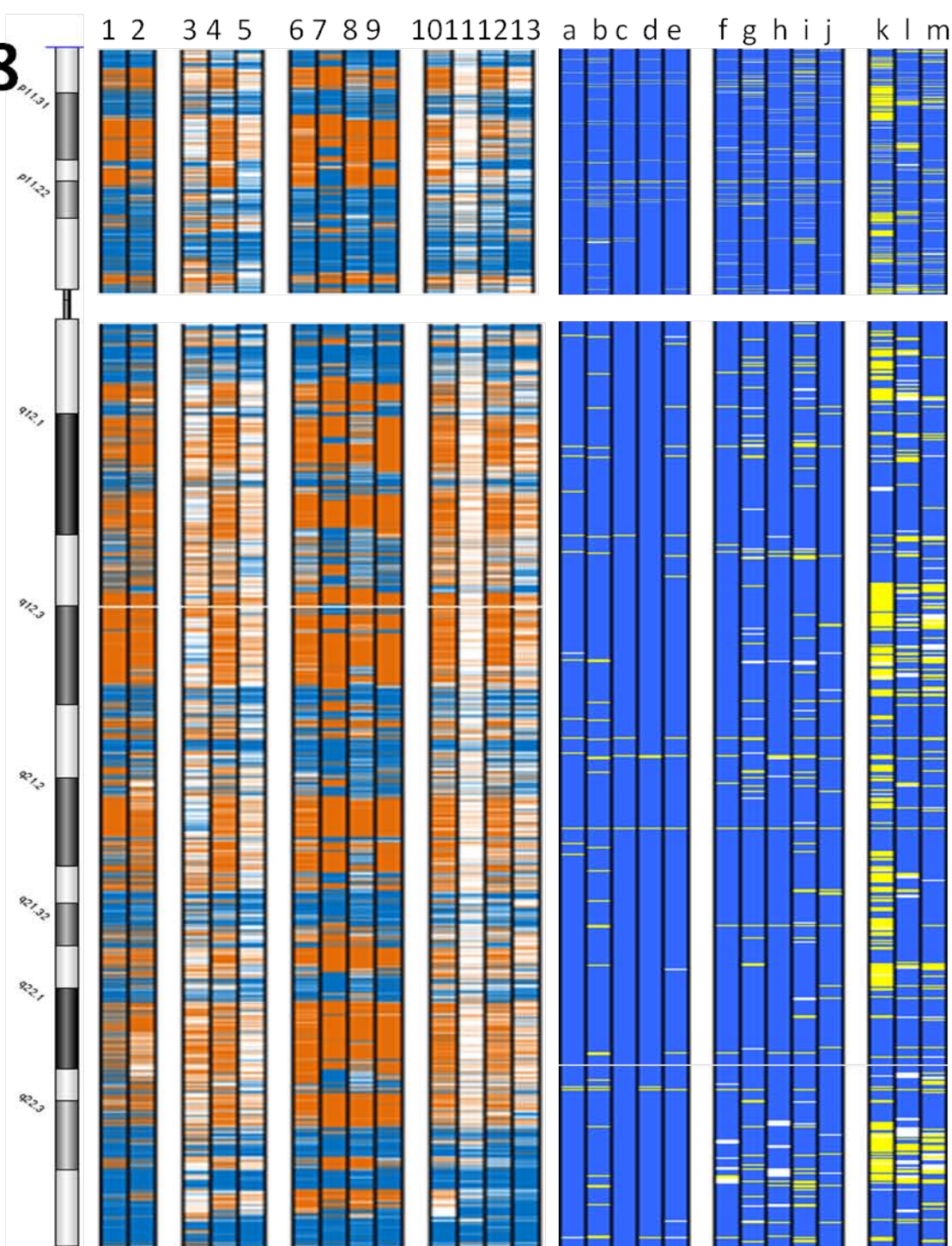
McrBC method

- 1: FaDu HIF
- 2: Fadu
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- 4: CL15
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18



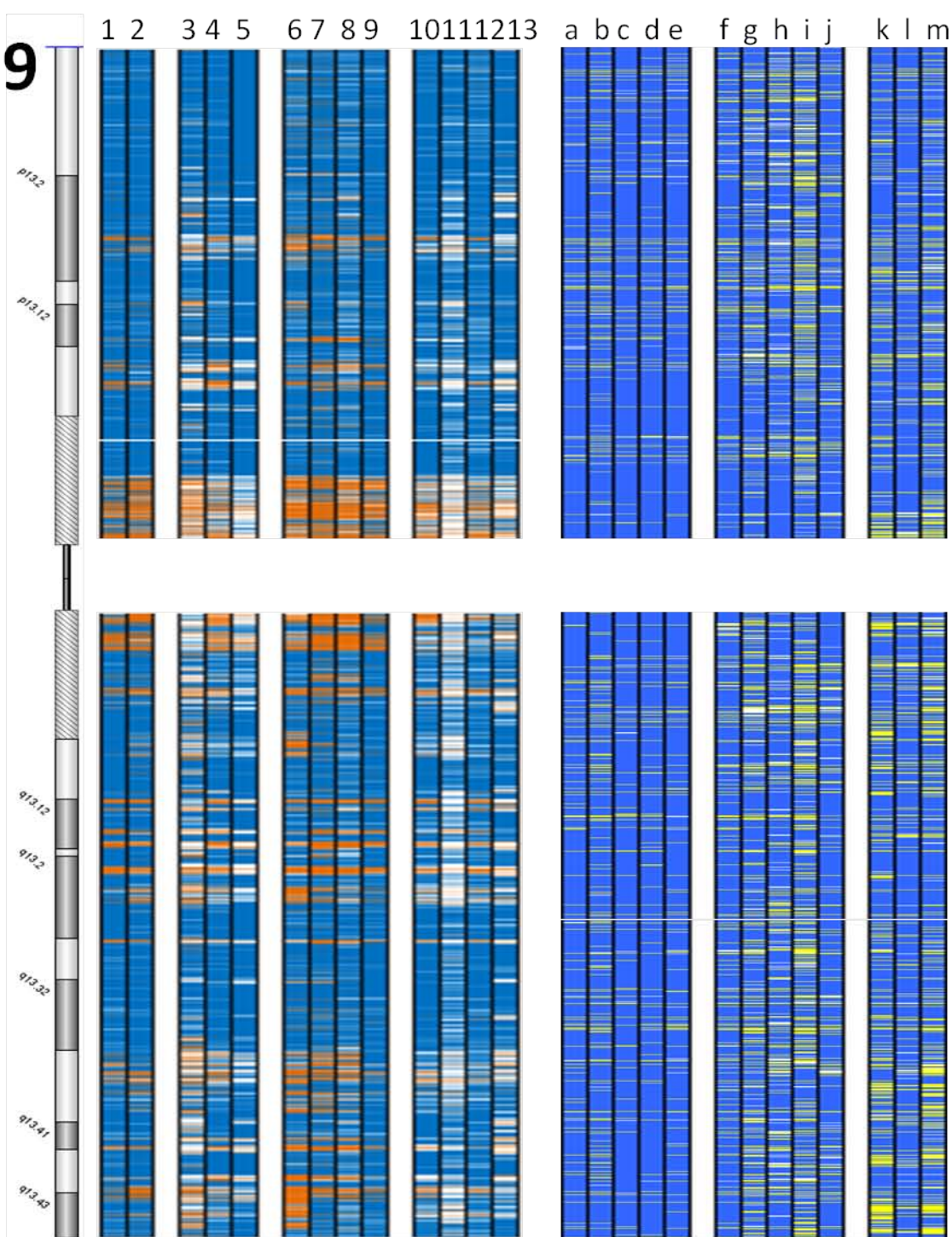
McrBC method

- 1: FaDu HIF
- 2: Fadu
- 3: Malhavu
- 4: CL15
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- 6: MCF7
- 7: HepG2
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McrBC method

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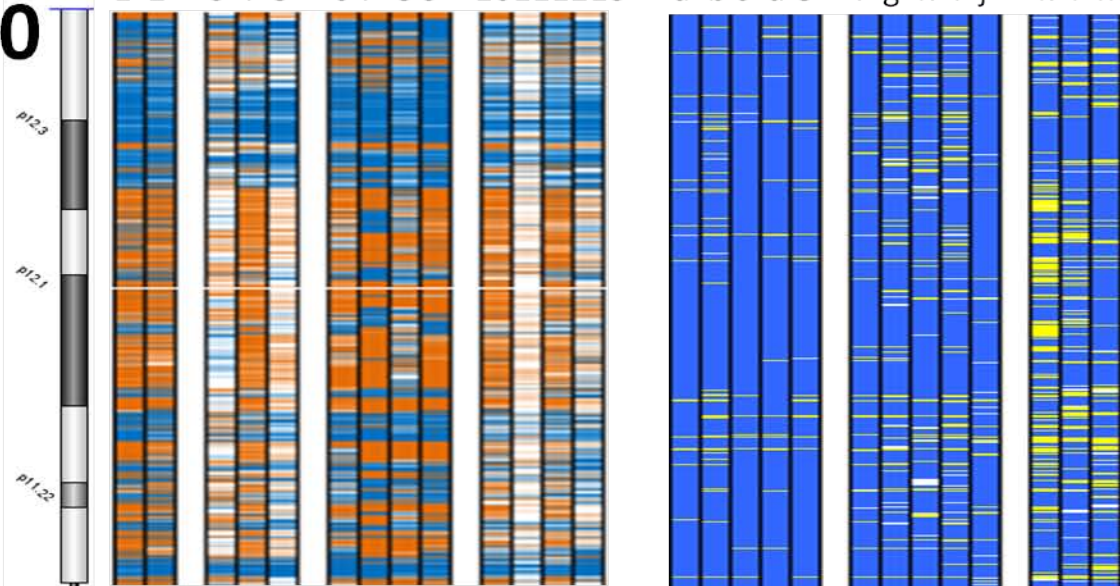
TspRI-ExoIII method

- a: brain normal tissue
- b: leukocyte normal tissue
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20

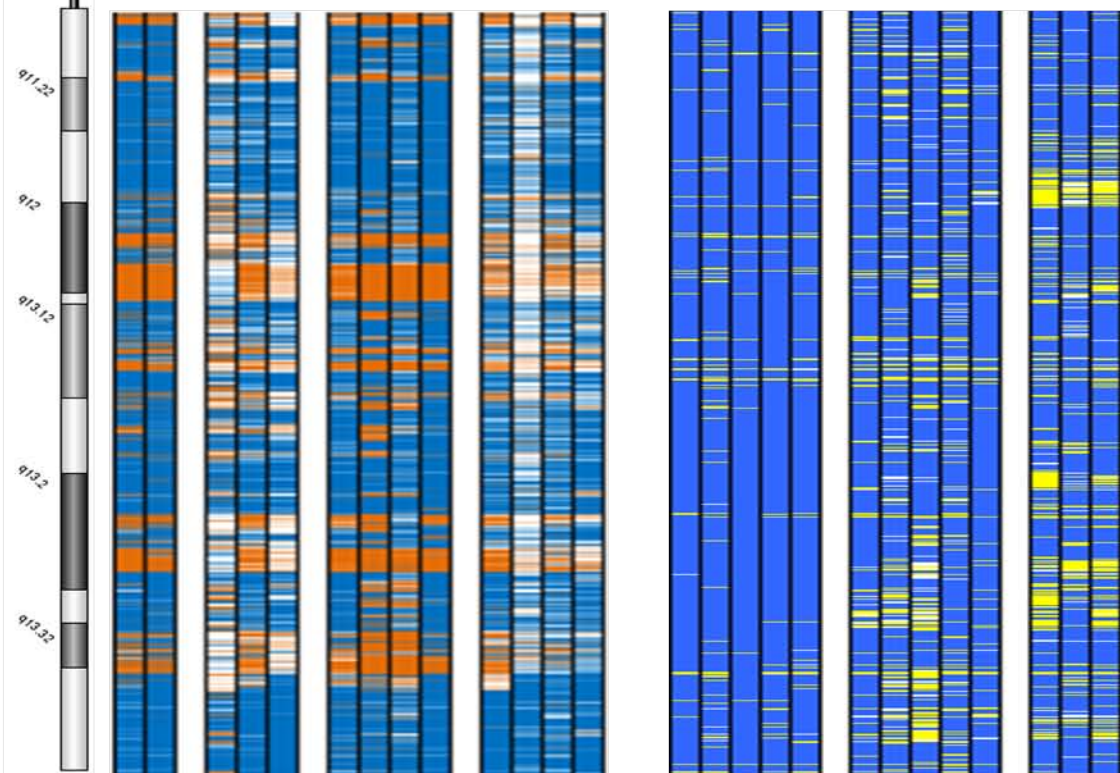
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a b c d e f g h i j k l m



McrBC method

- 1: FaDu HIF
- 2: Fadu
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- 4: CL15
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21

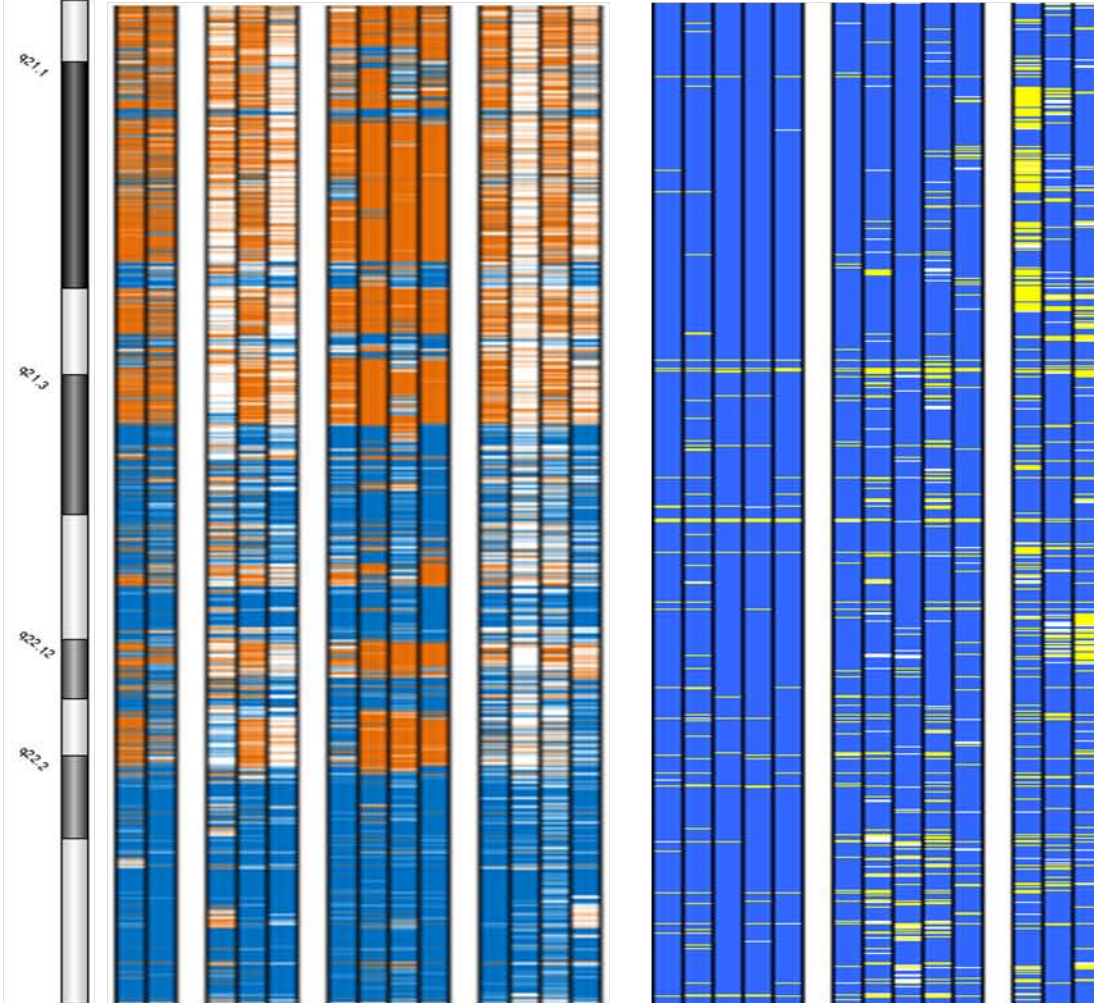
1 2 3 4 5 6 7 8 9 10 11 12 13 a b c d e f g h i j k l m

McrBC method

- 1: FaDu HIF
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- 4: CL15
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22

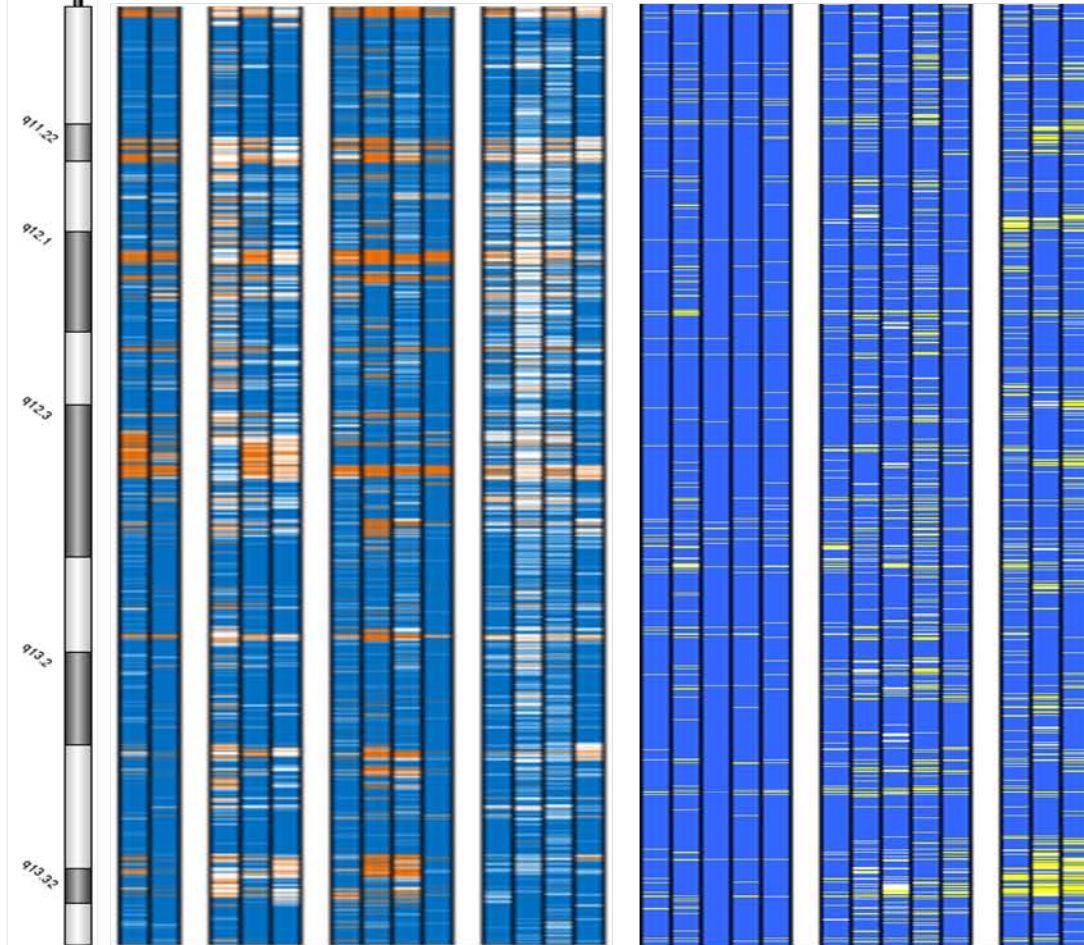
1 2 3 4 5 6 7 8 9 10 11 12 13 a b c d e f g h i j k l m

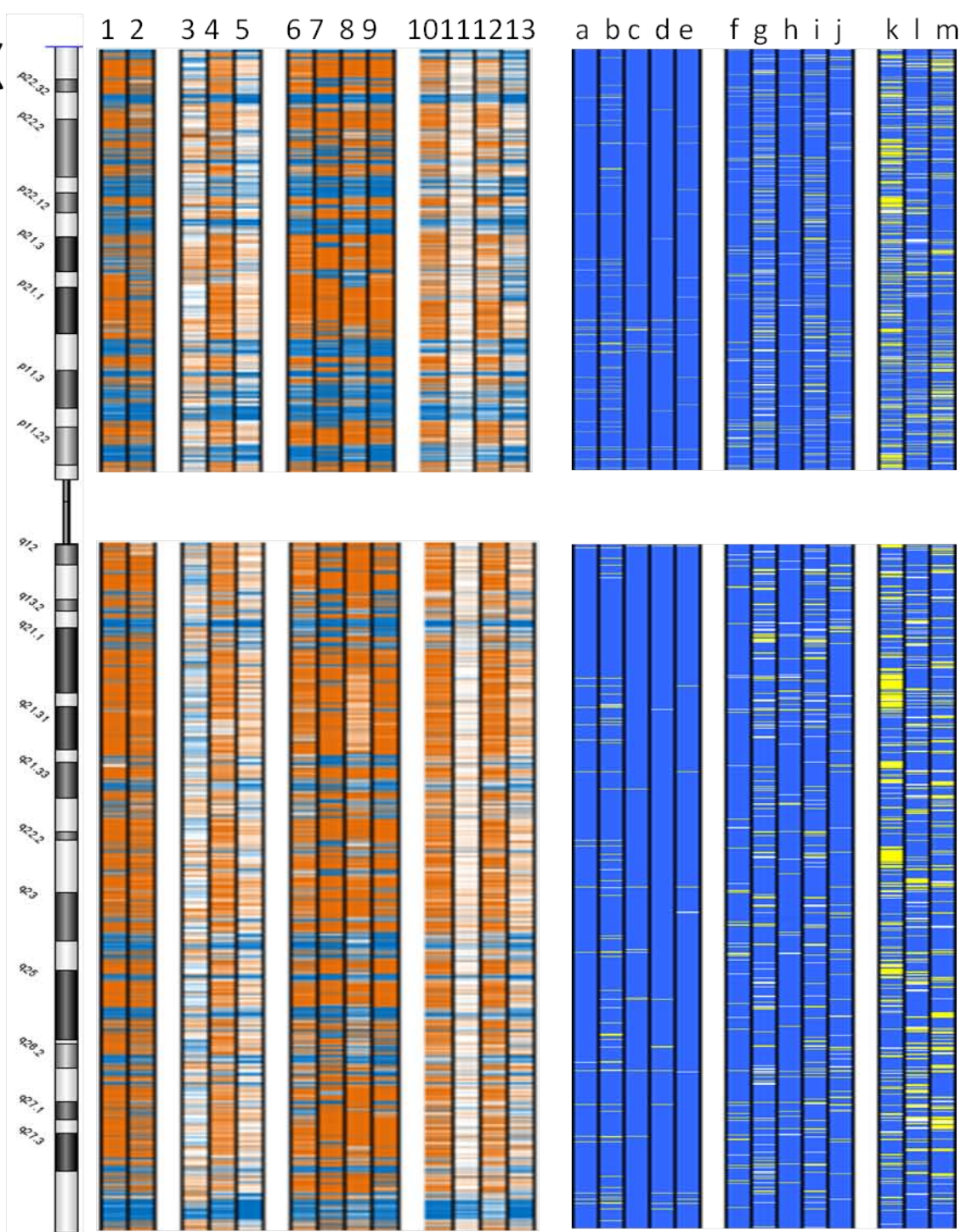
McrBC method

- 1: FaDu HIF
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X**McrBC method**

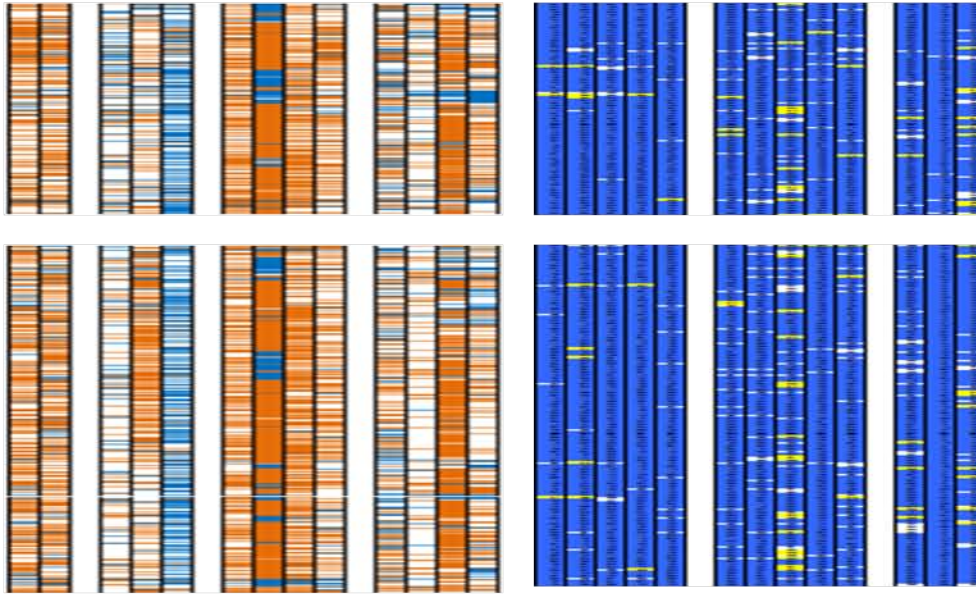
- 1: FaDu HIF
- 2: Fadu
- 3: Malhavu
- 4: CL15
- 5: MDA-MB-231
- 6: MCF7
- 7: HepG2
- 8: huh7
- 9: CL10
- 10: breast tumor tissue
- 11: brain tumor tissue(no.RT619)
- 12: brain tumor tissue(no.t891)
- 13: brain tumor tissue(no.RT297)

TspRI-ExoIII method

- a: brain normal tissue
- b: leukocyte normal tissue
- c: testis normal tissue
- d: liver normal tissue
- e: breast normal tissue
- f: breast tumor tissue (no. 146)
- g: breast tumor tissue (no. 125)
- h: breast tumor tissue (no. 93)
- i: breast tumor tissue (no. 89)
- j: brain tumor tissue (no. SIR)
- k: MCF7
- l: MDA-MB-231
- m: HeLa

Y

1 2 3 4 5 6 7 8 9 10 11 12 13 a b c d e f g h i j k l m



McrBC method

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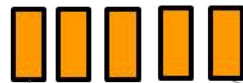
A2BP1 size 1,693,368 bp

Methylation pattern

Normal breast



MCF7



CpG island

5'UTR

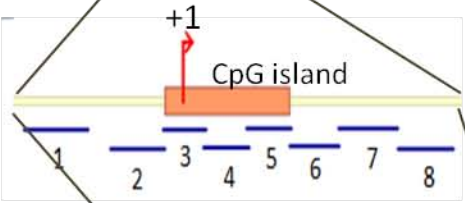
5'UTR

5'UTR

5'UTR

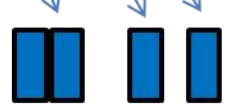
3'UTR

Exon



Methylation pattern

Normal breast



MCF7



2 3 8 9 11

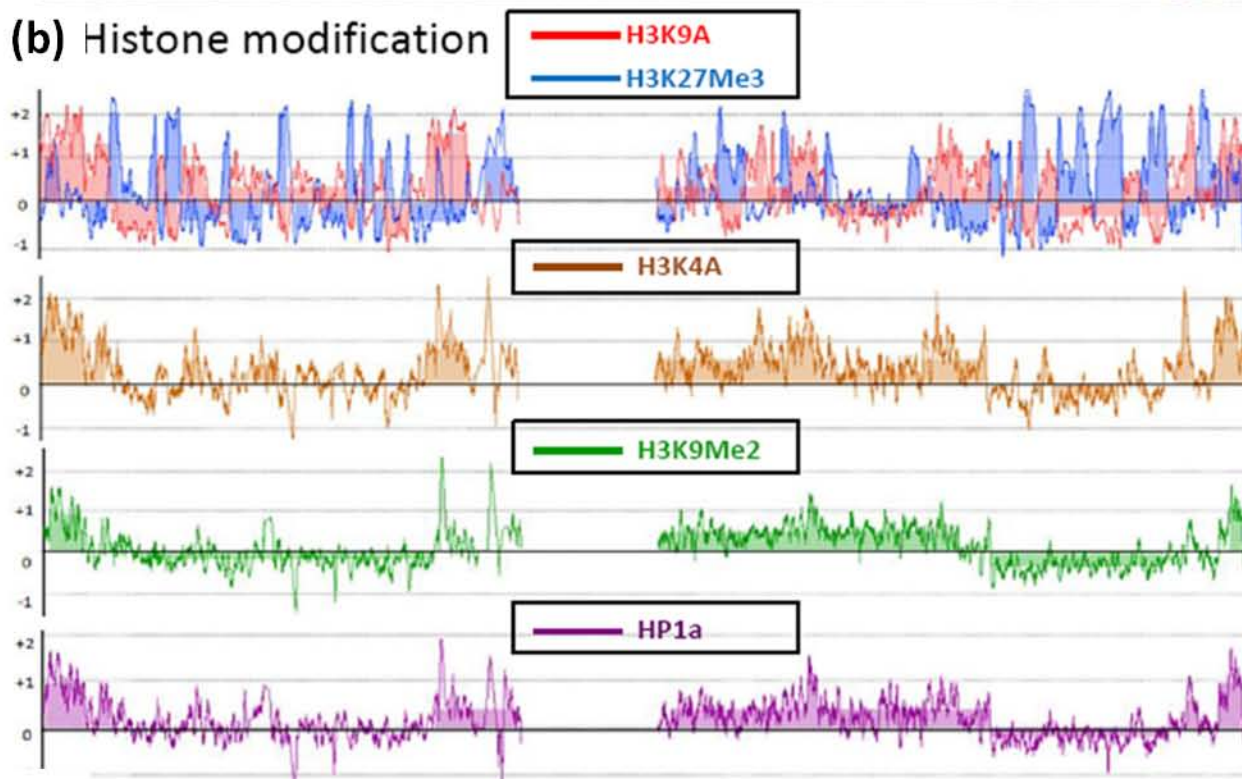
Chromosome 16 as a model



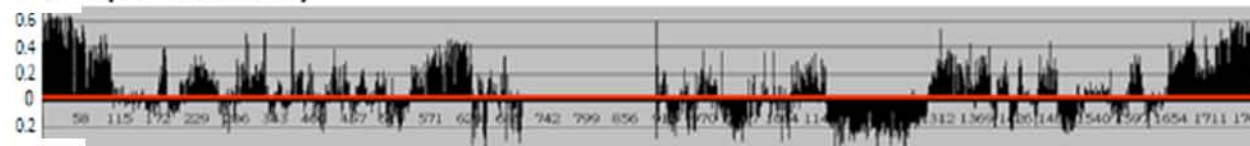
(a) DNA methylation



(b) Histone modification



(c) CpG density



(d) Gene density (UCSC)

