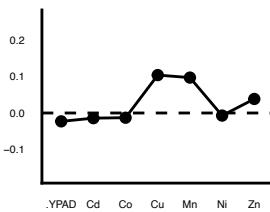
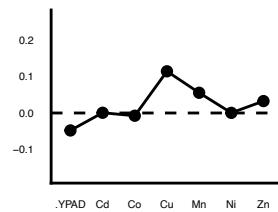
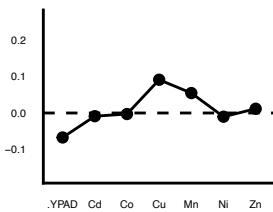
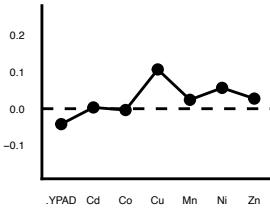
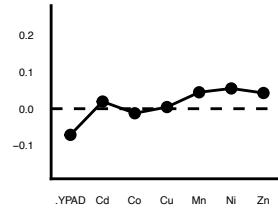
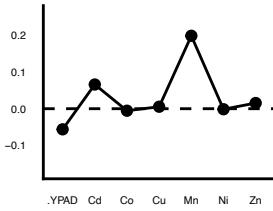
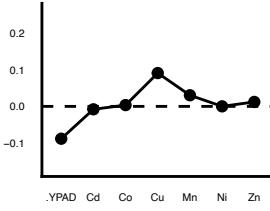
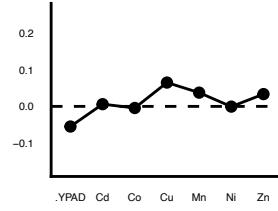
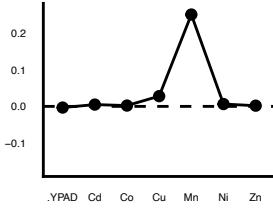
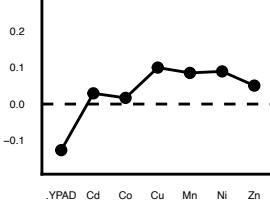
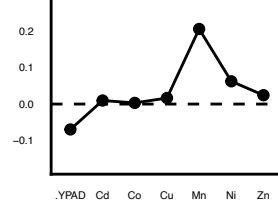
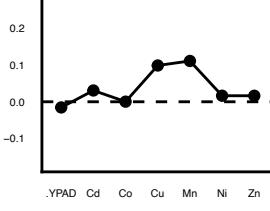
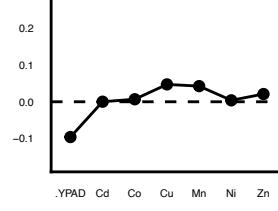
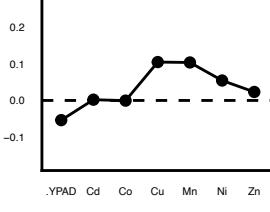
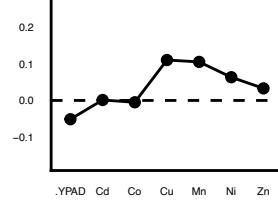
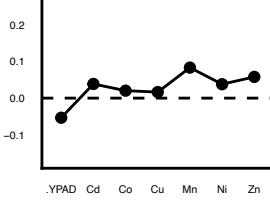
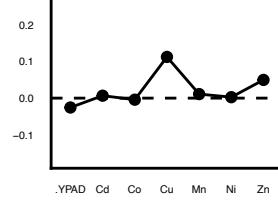
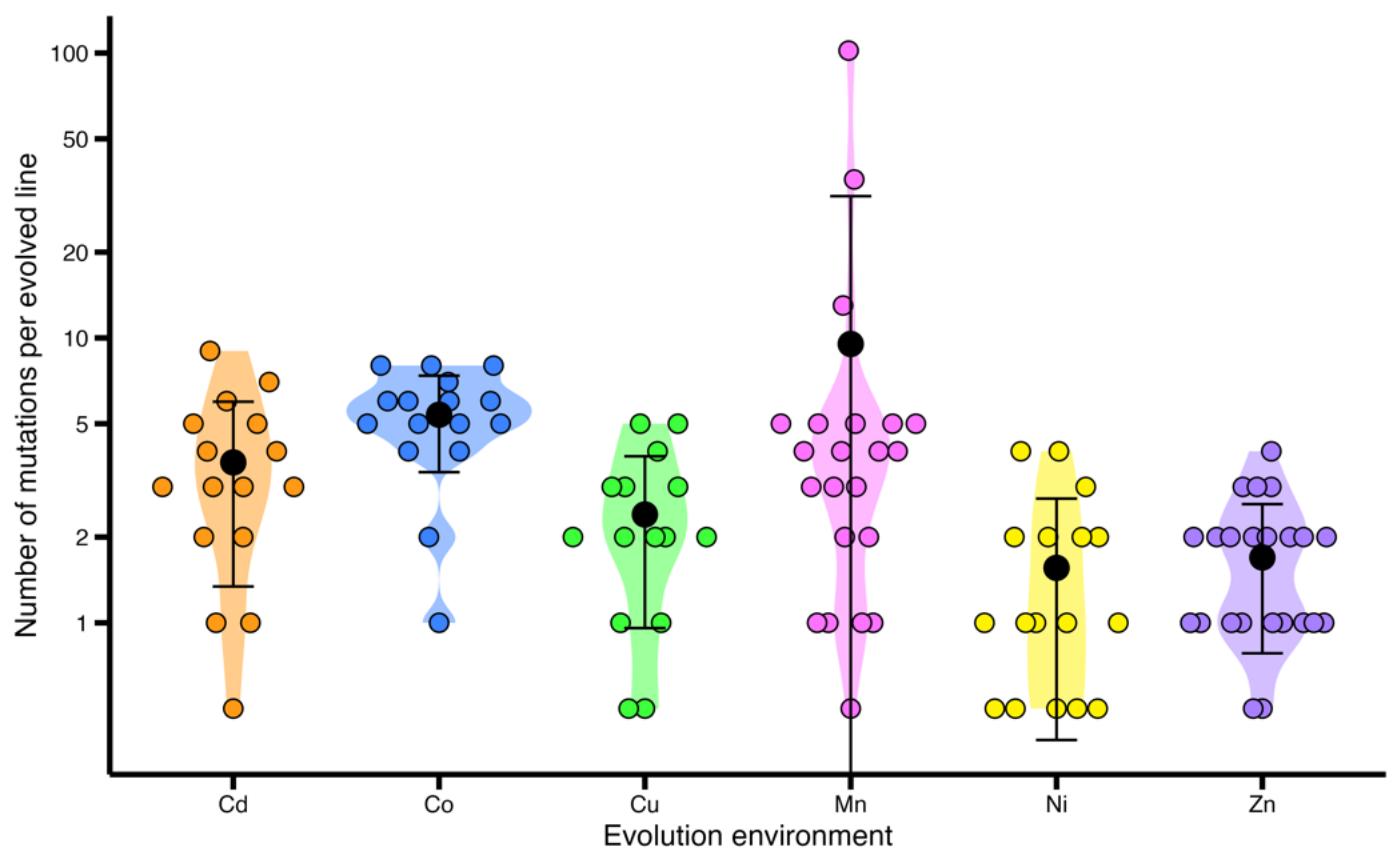
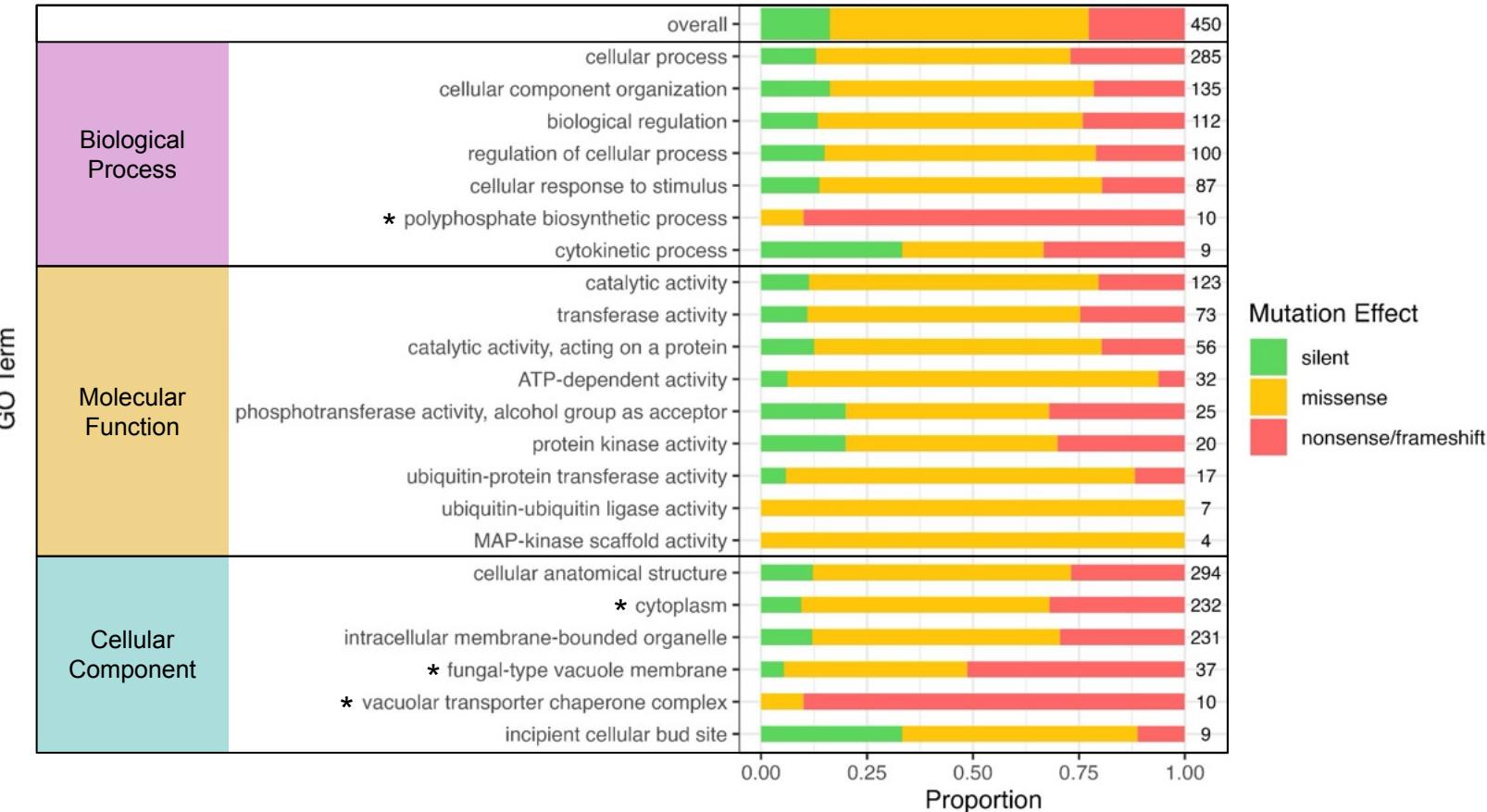
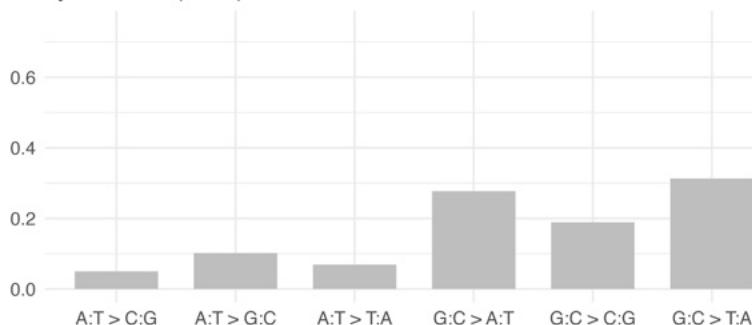
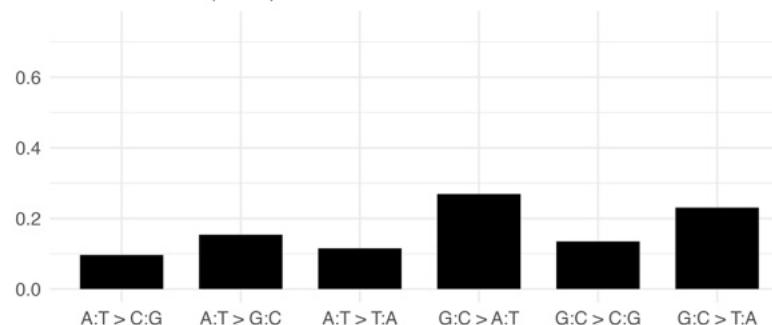
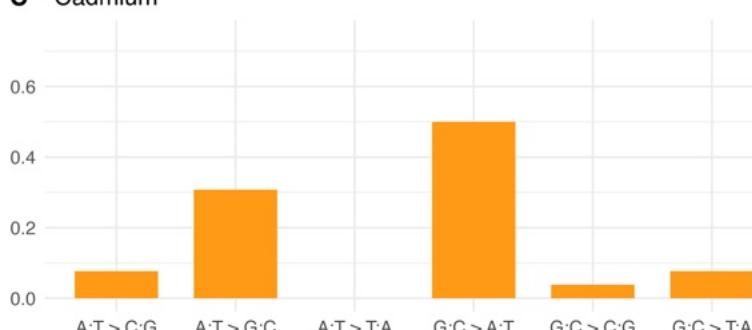
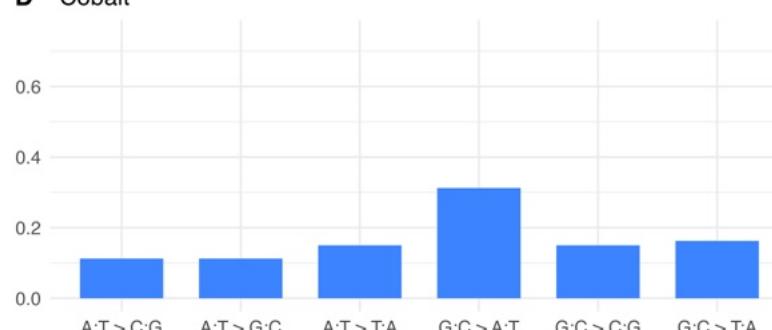
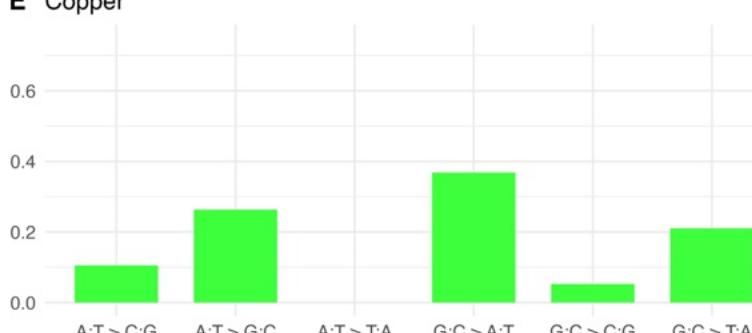
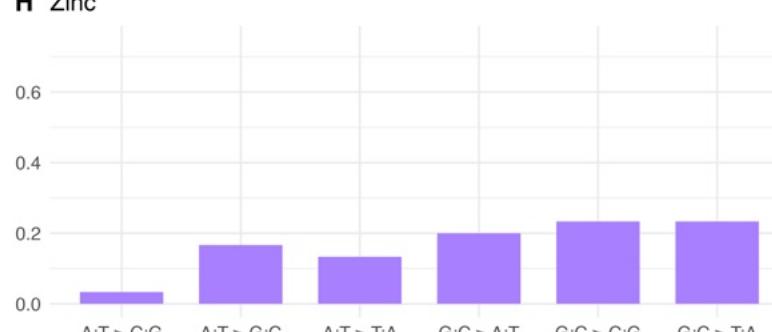


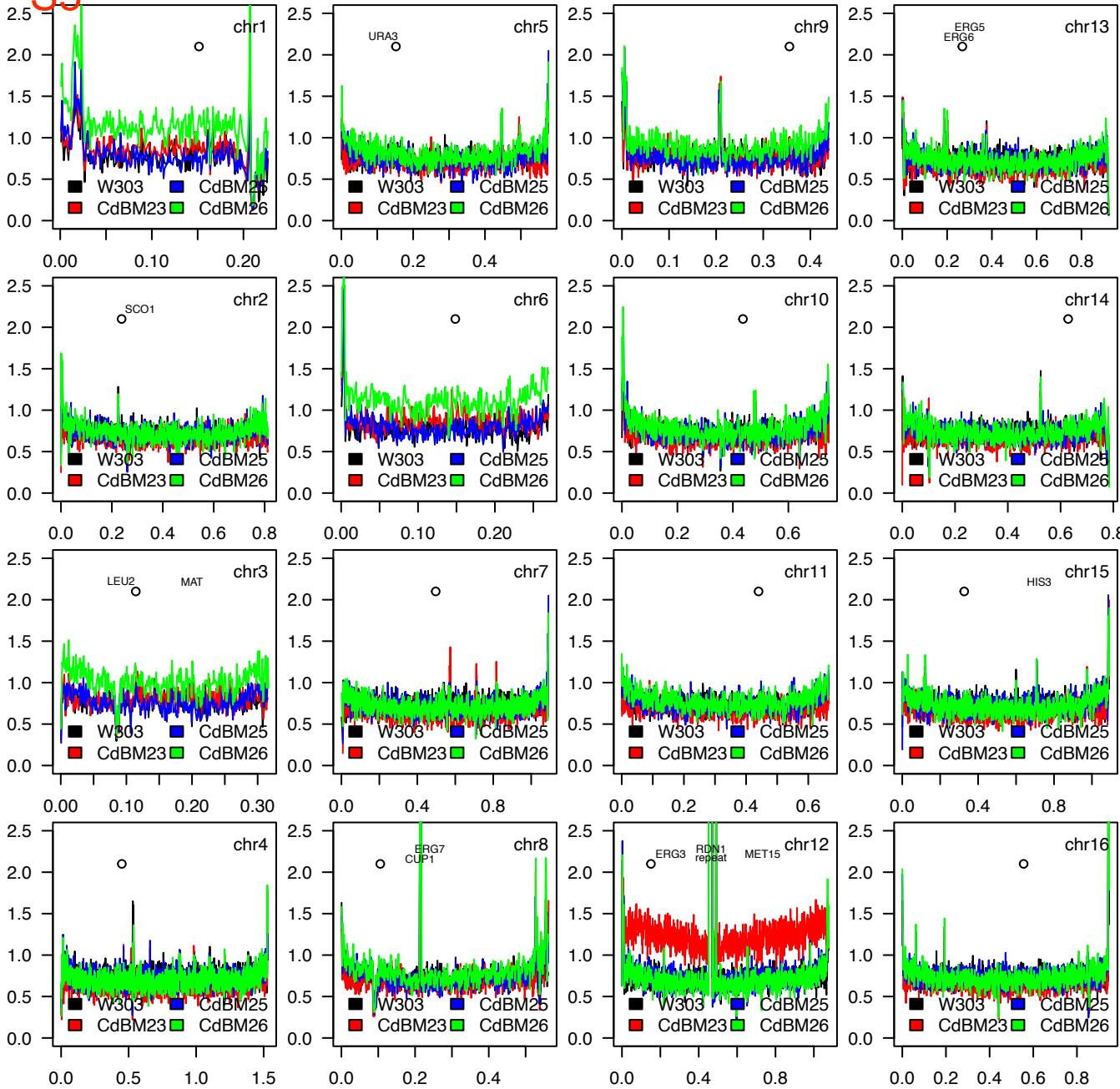
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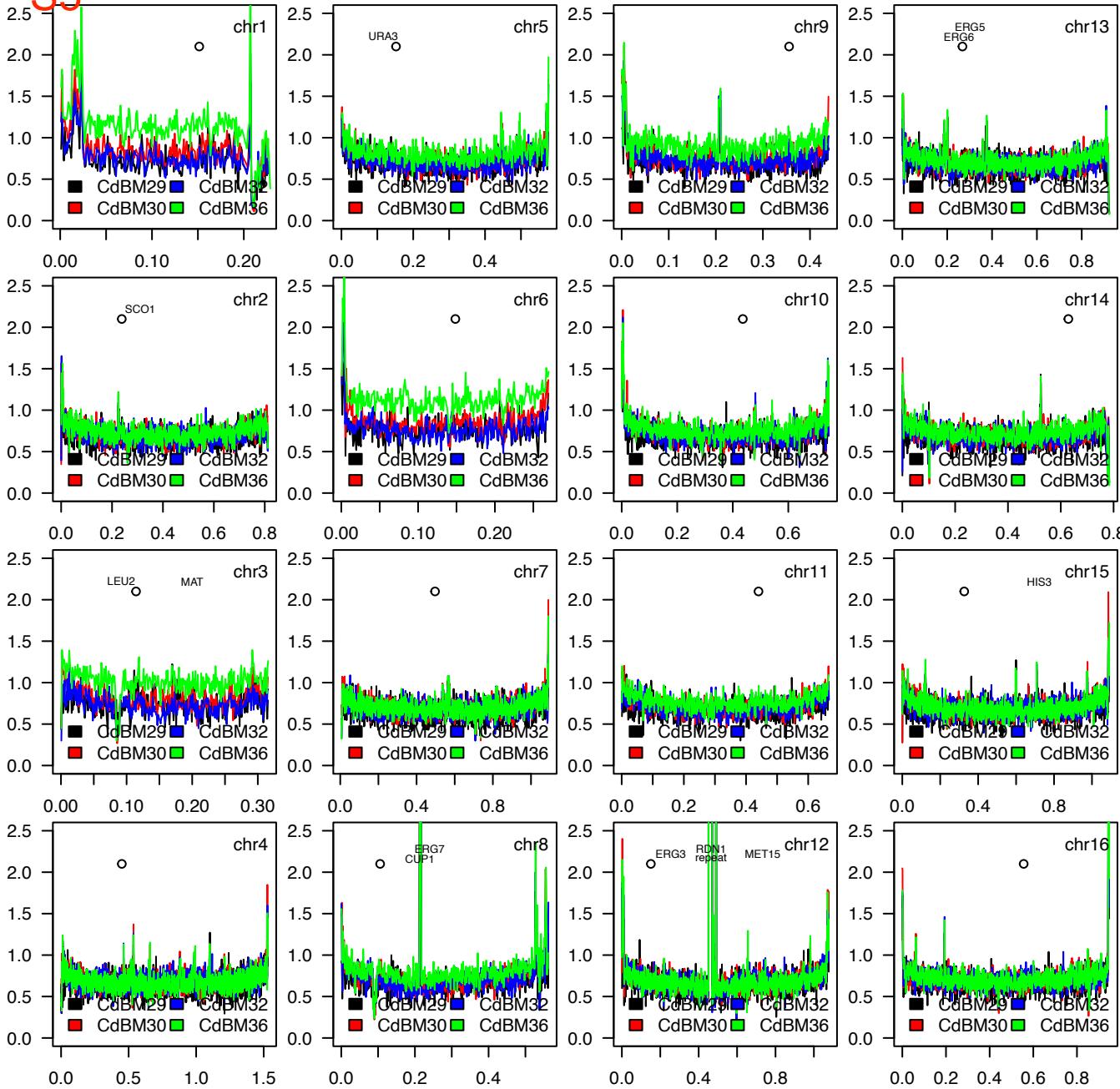


A Lynch et al. (2008)**B** Gerstein et al. (2015)**C *Cadmium****D *Cobalt****E Copper****F *Manganese (ex. MnBM14 & MnBM42)****G Nickel****H Zinc****I *MnBM14****J *MnBM42**

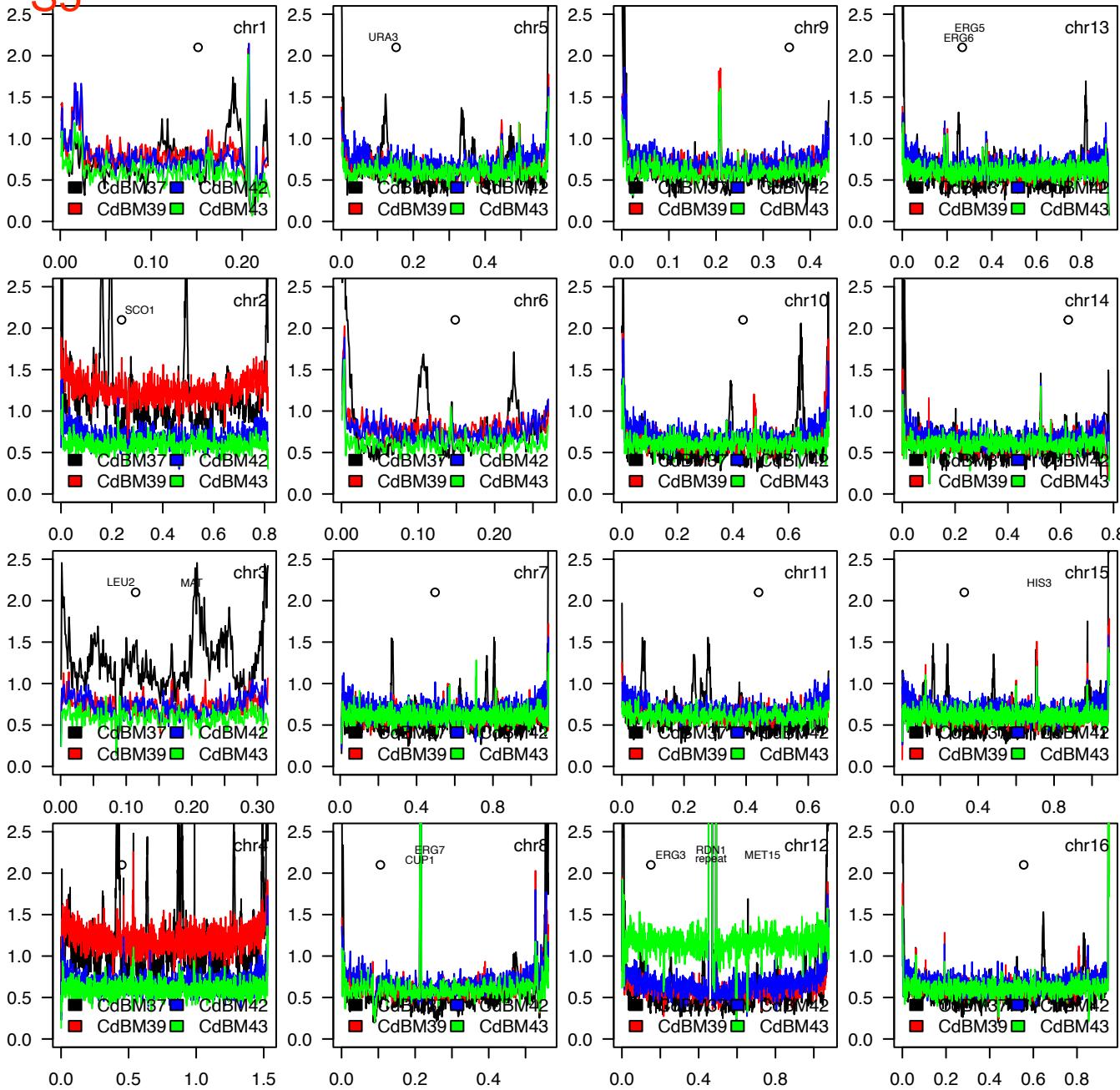
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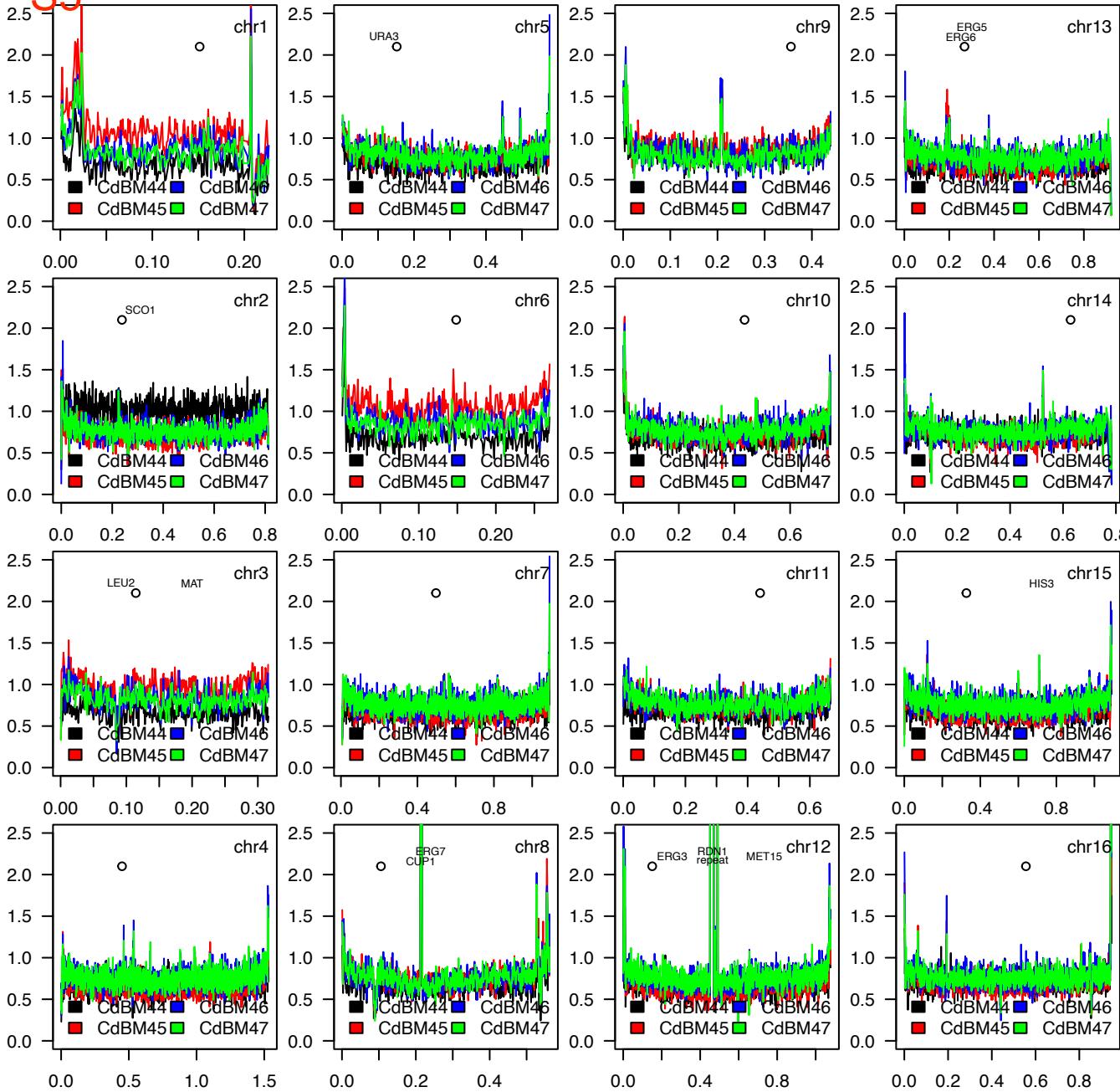
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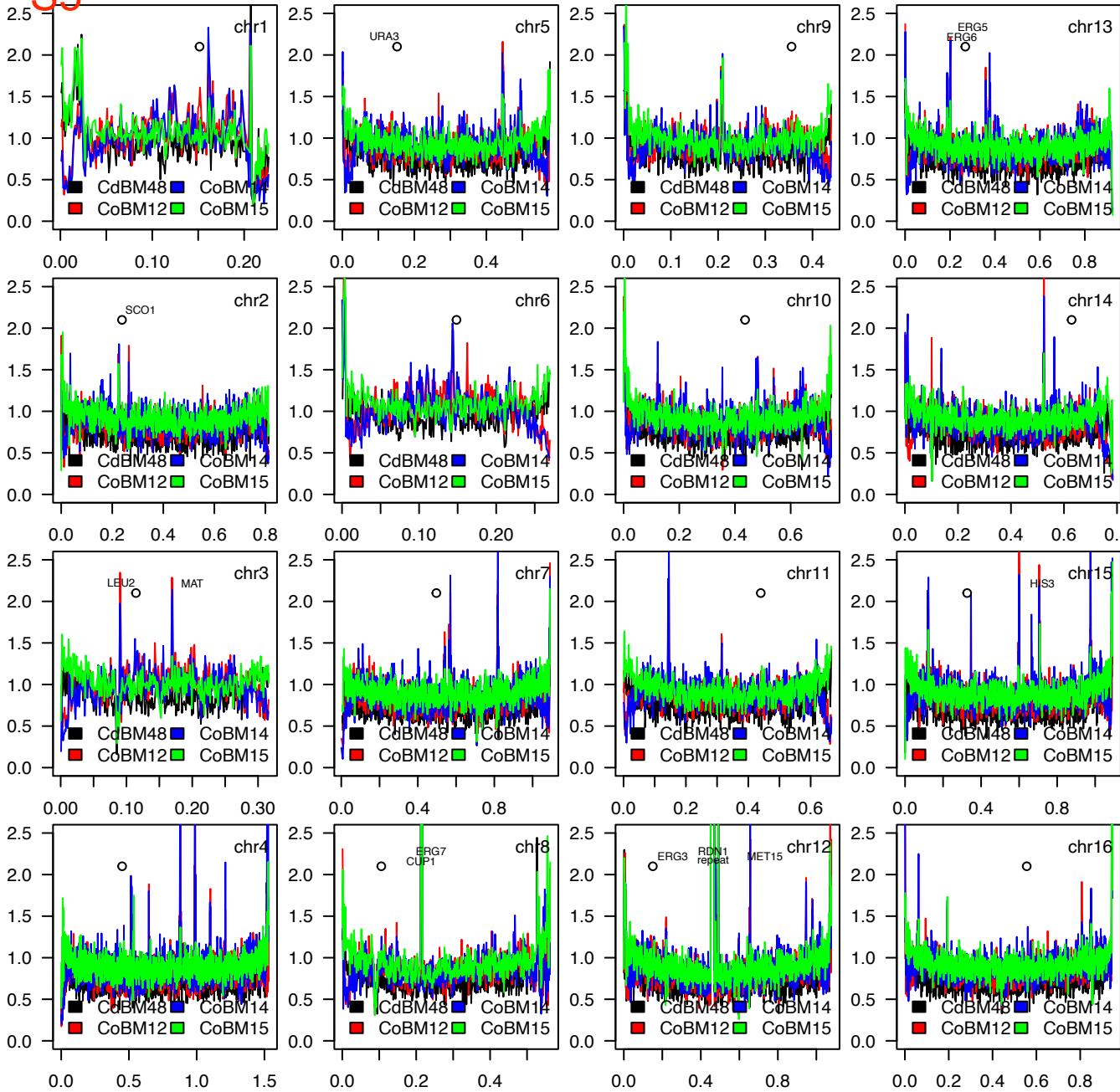
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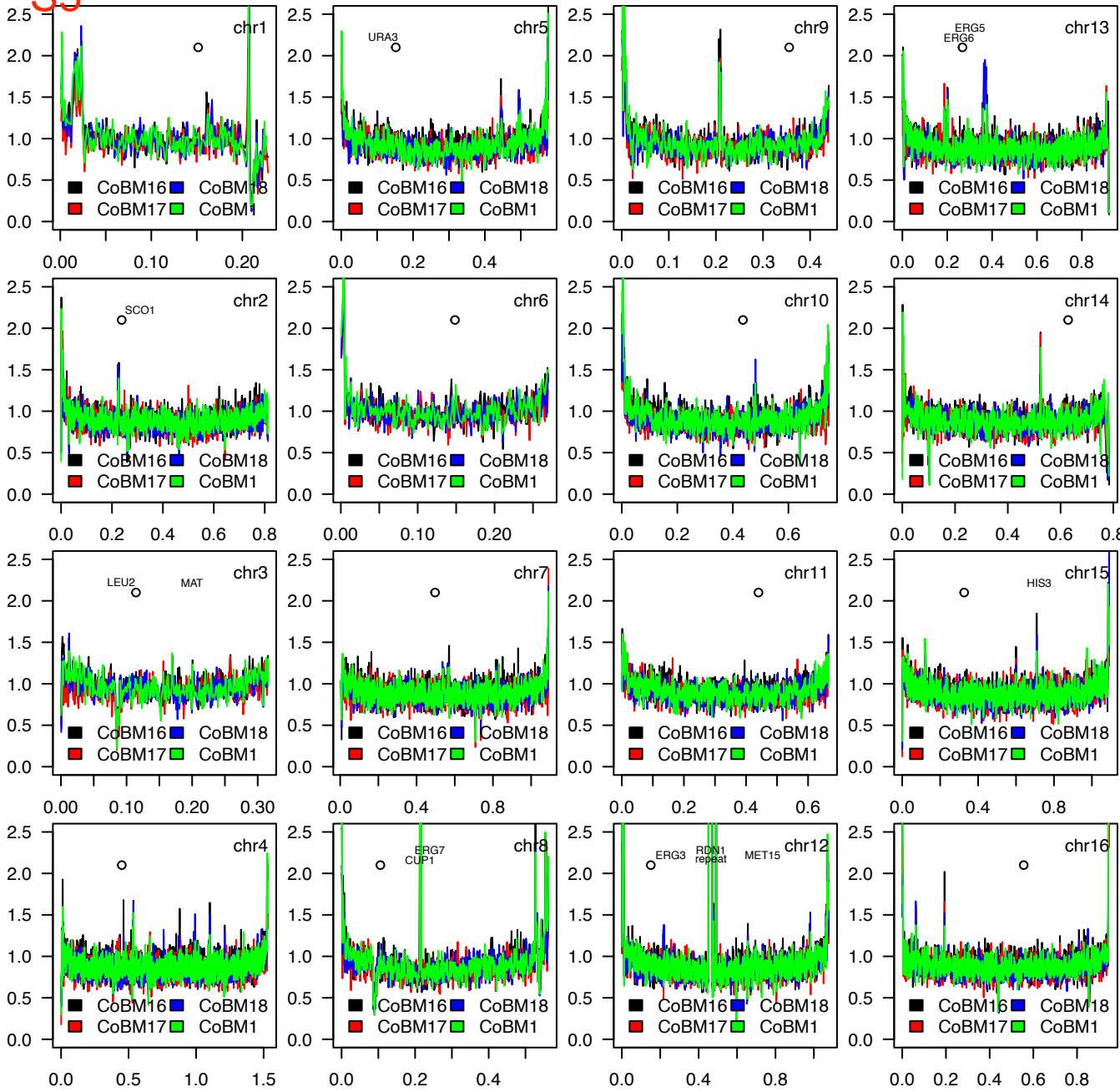
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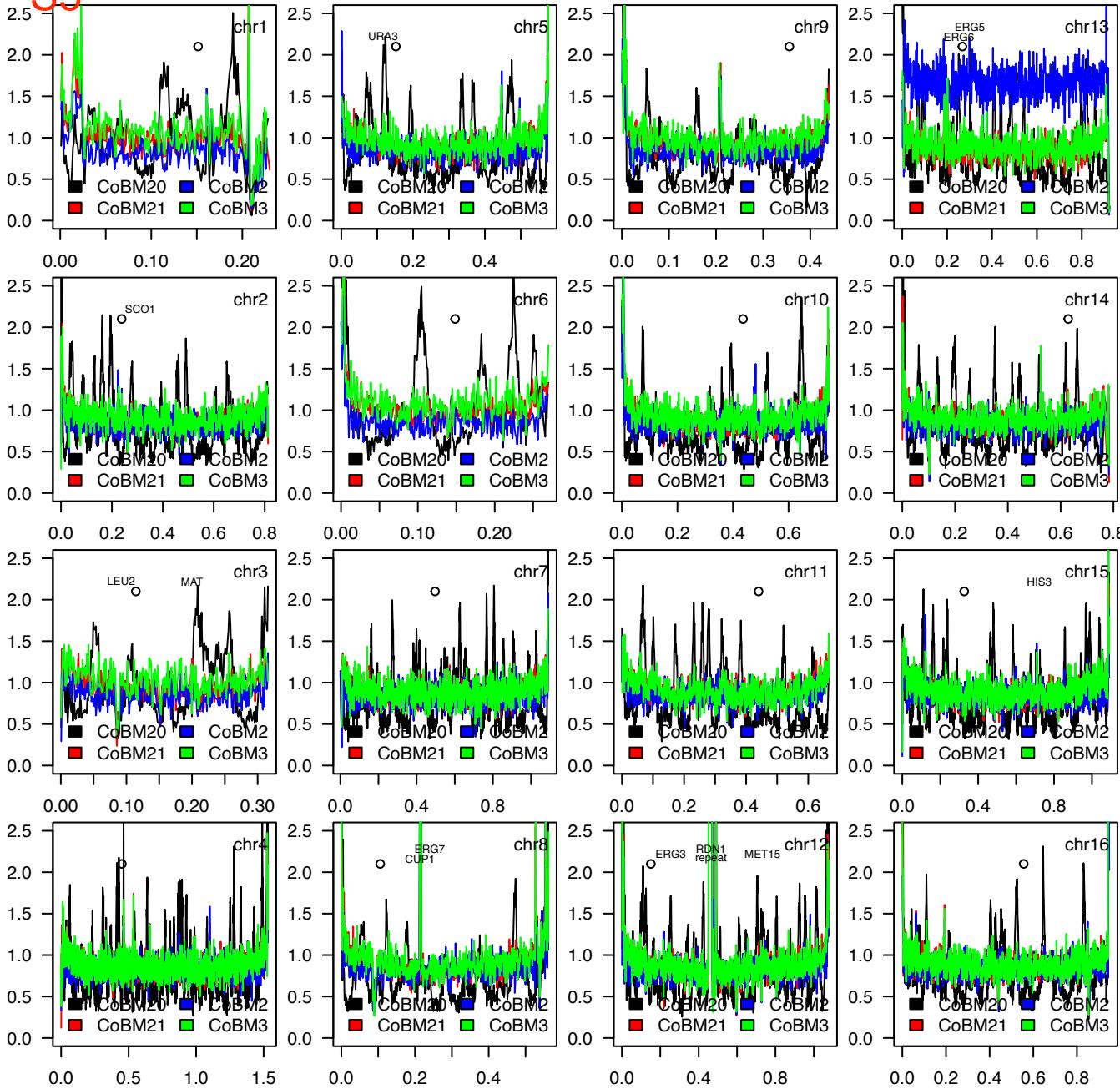
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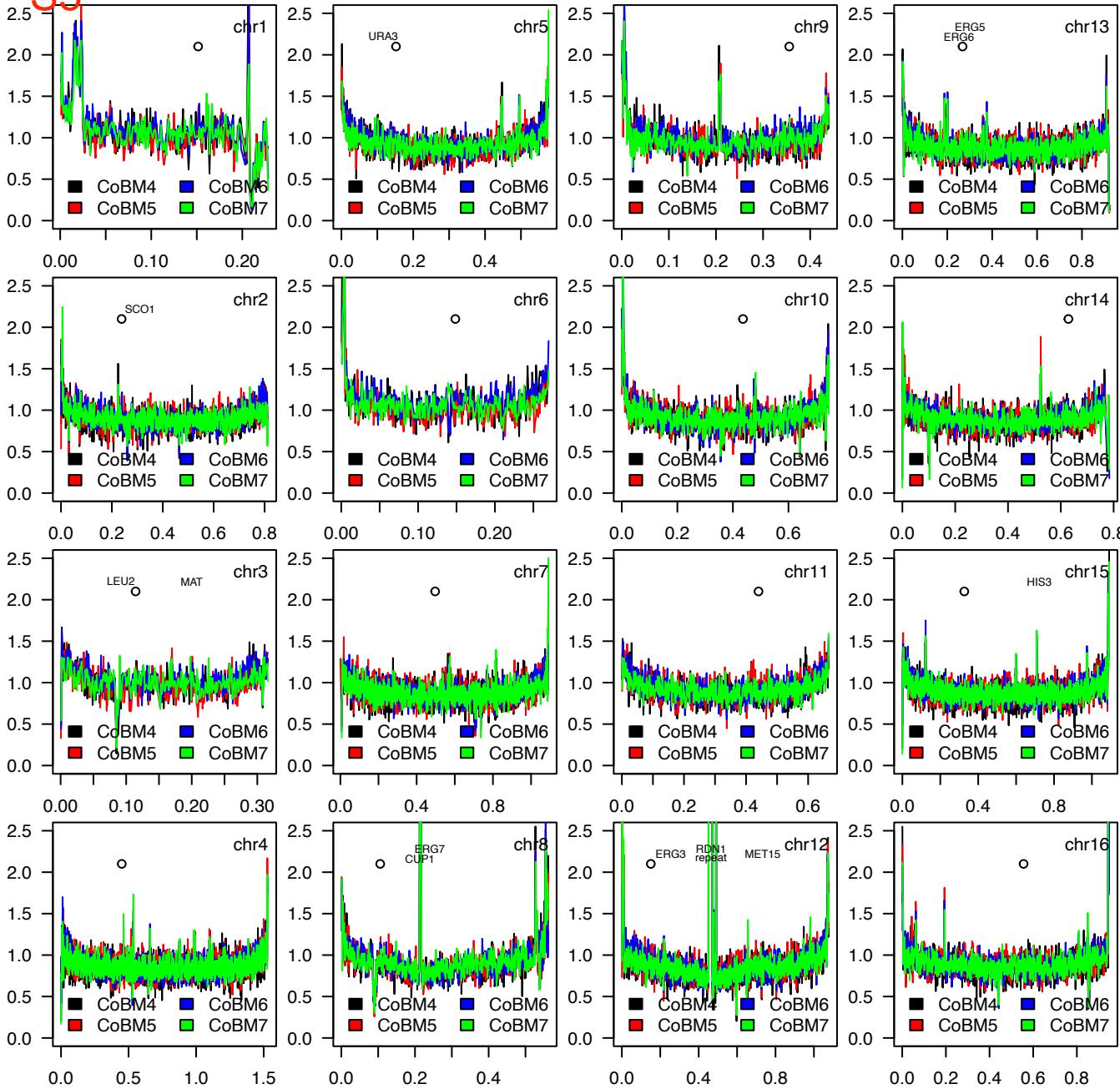
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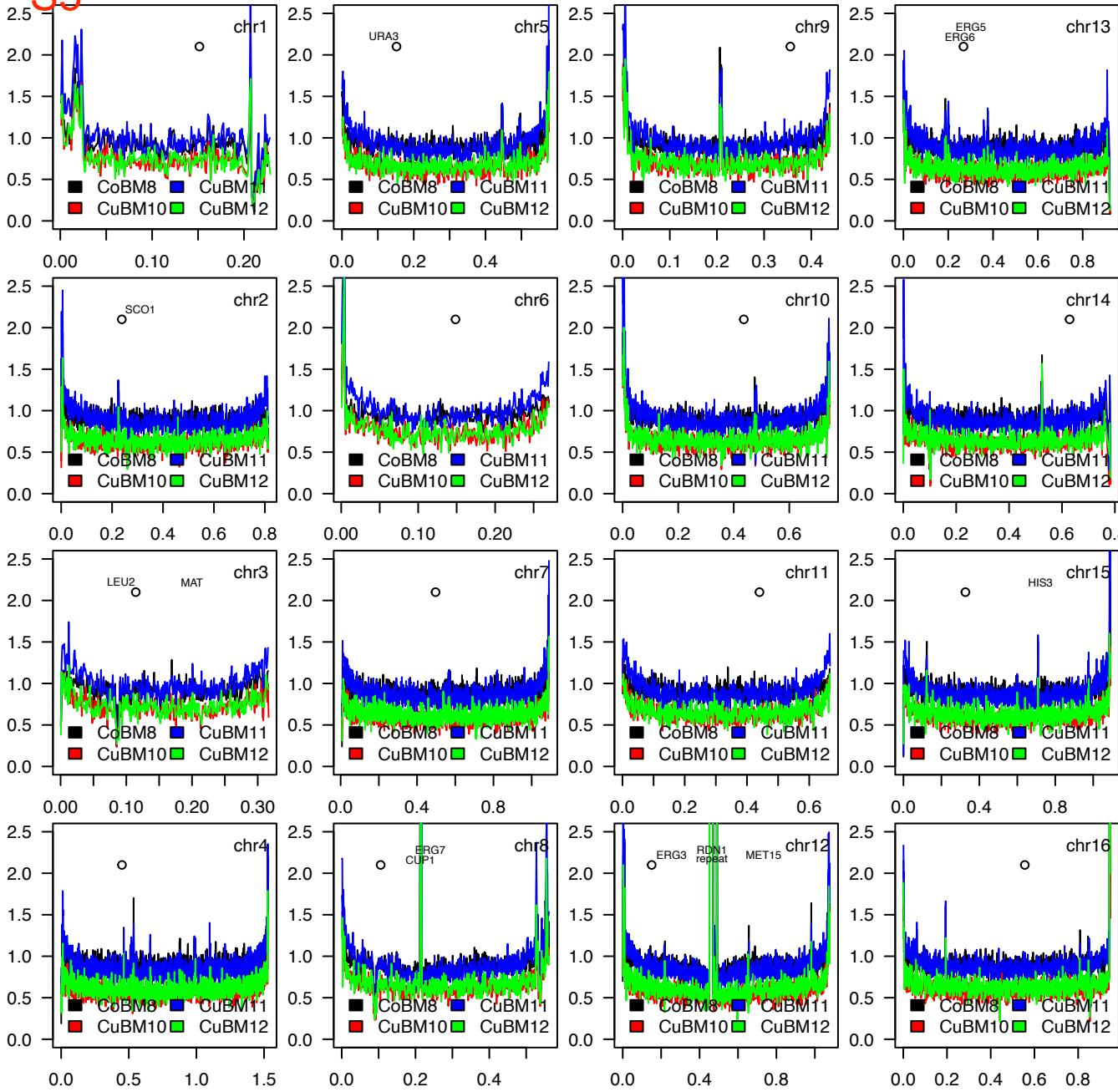
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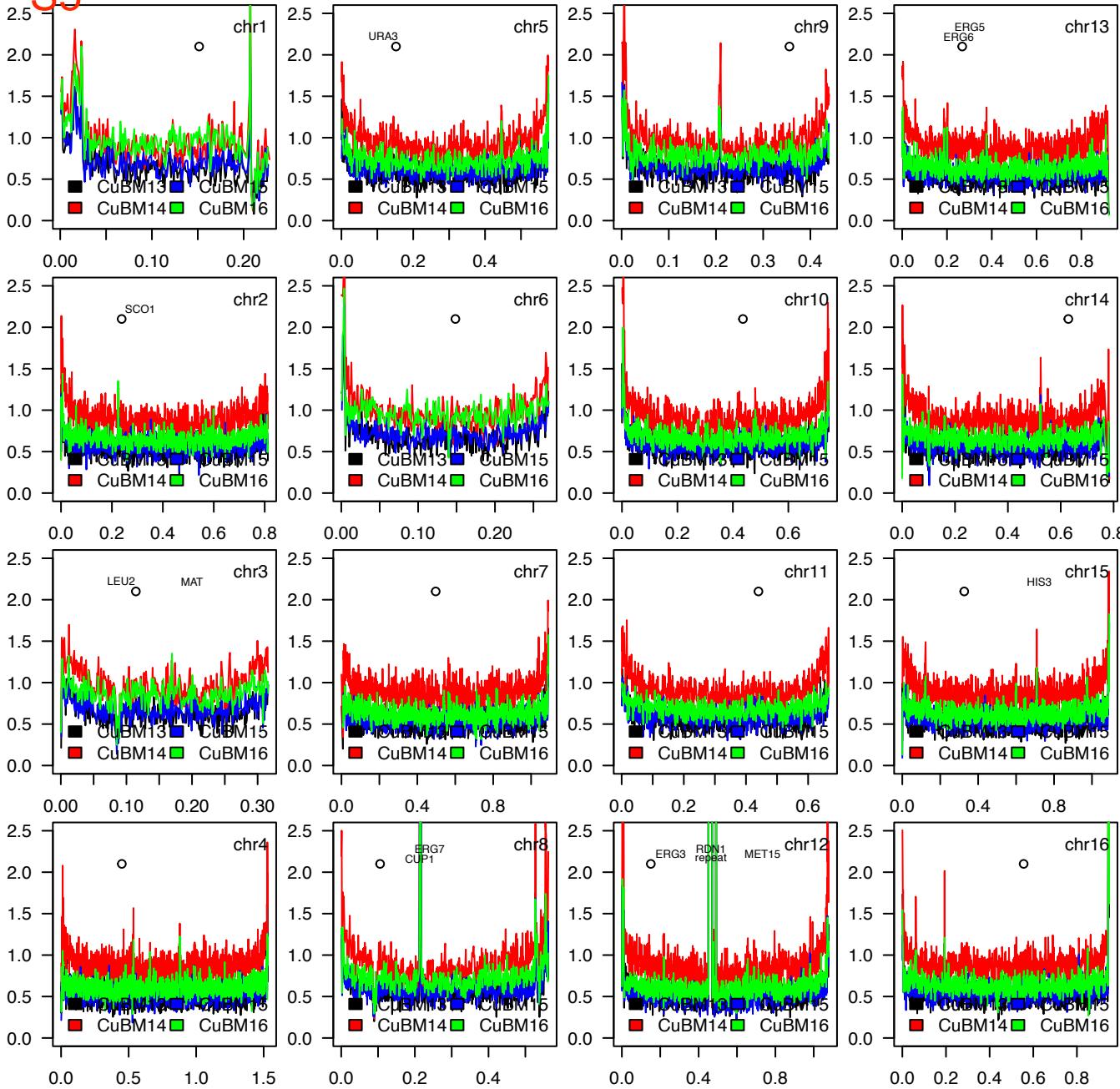
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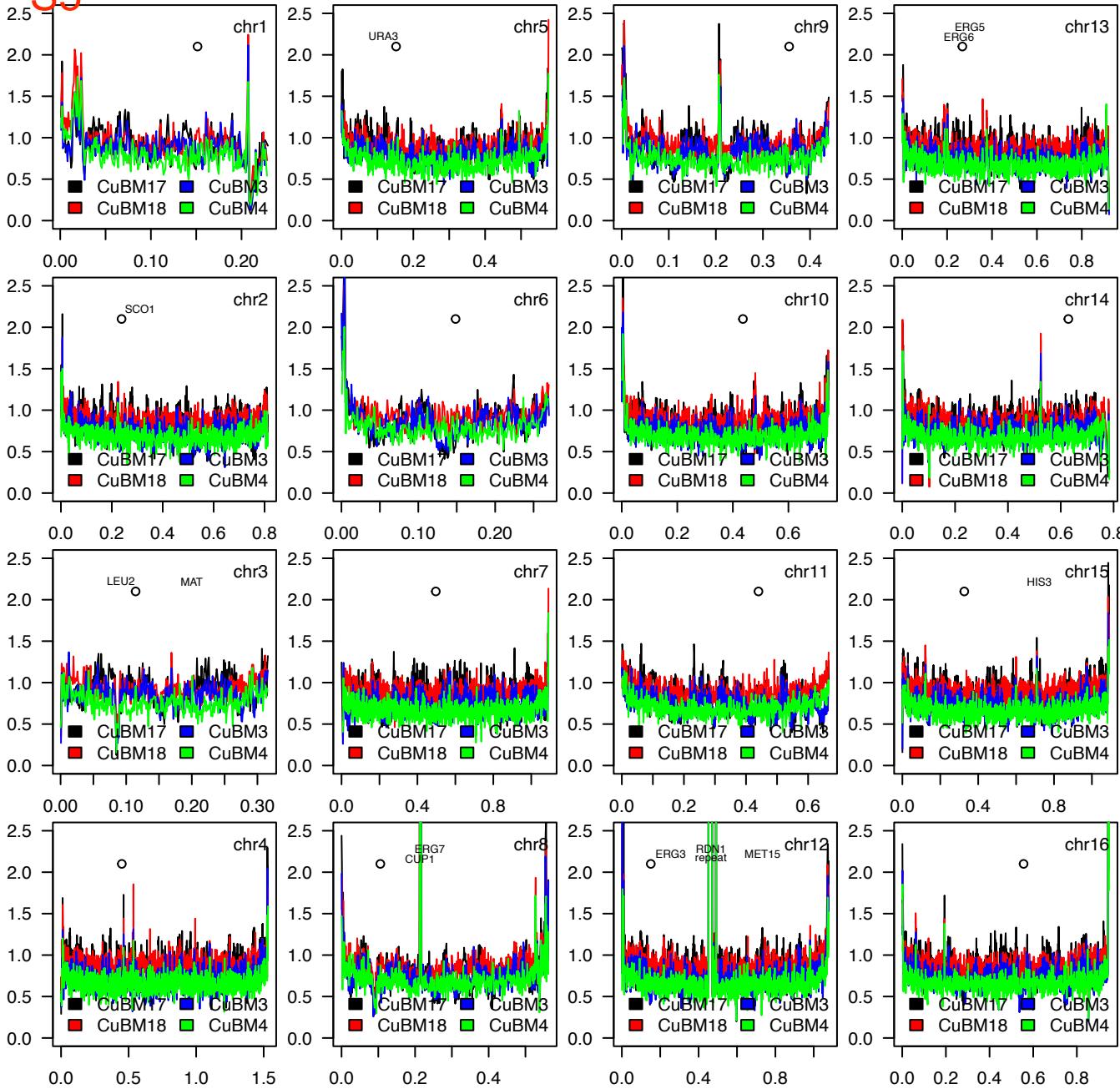
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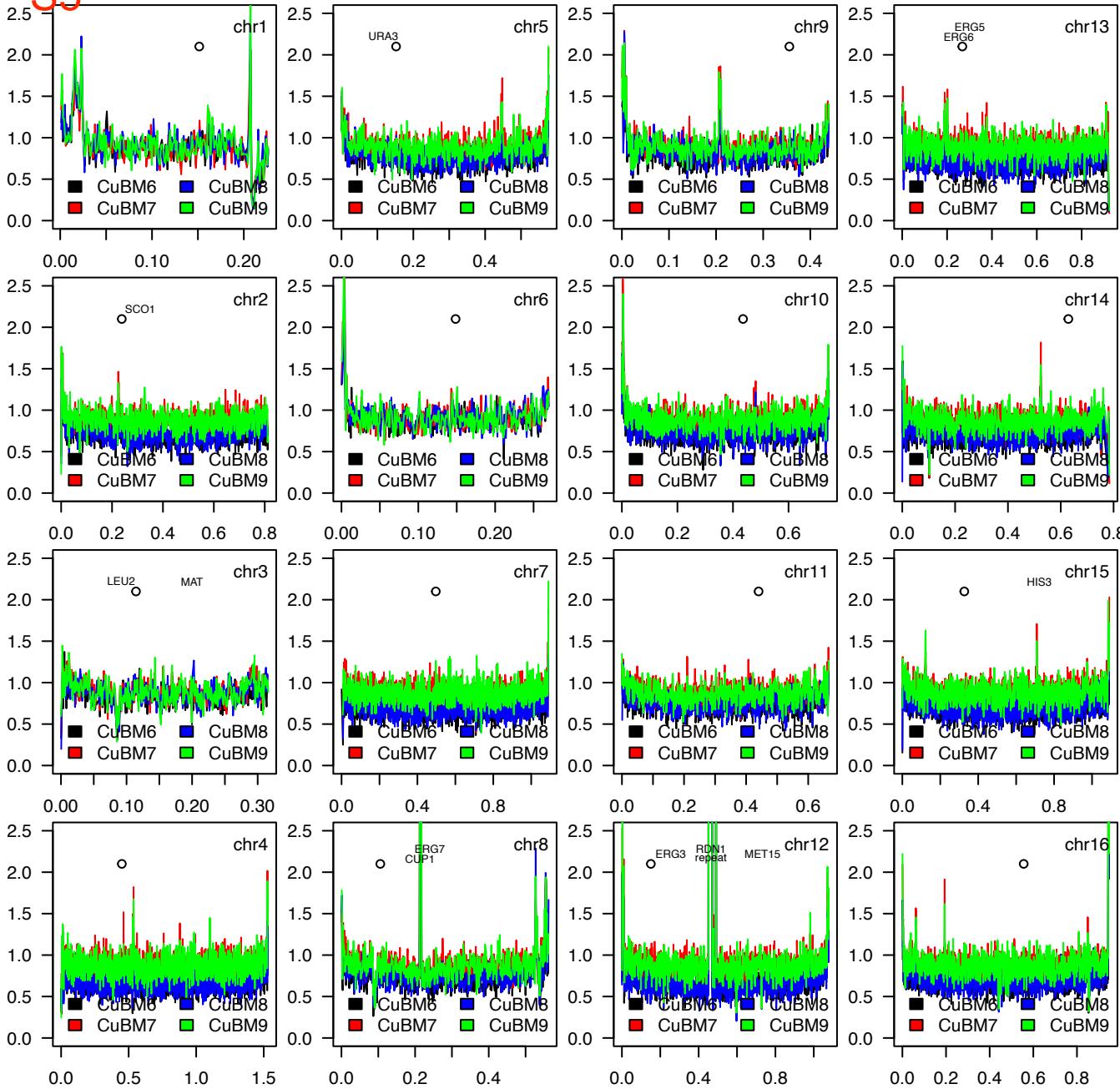
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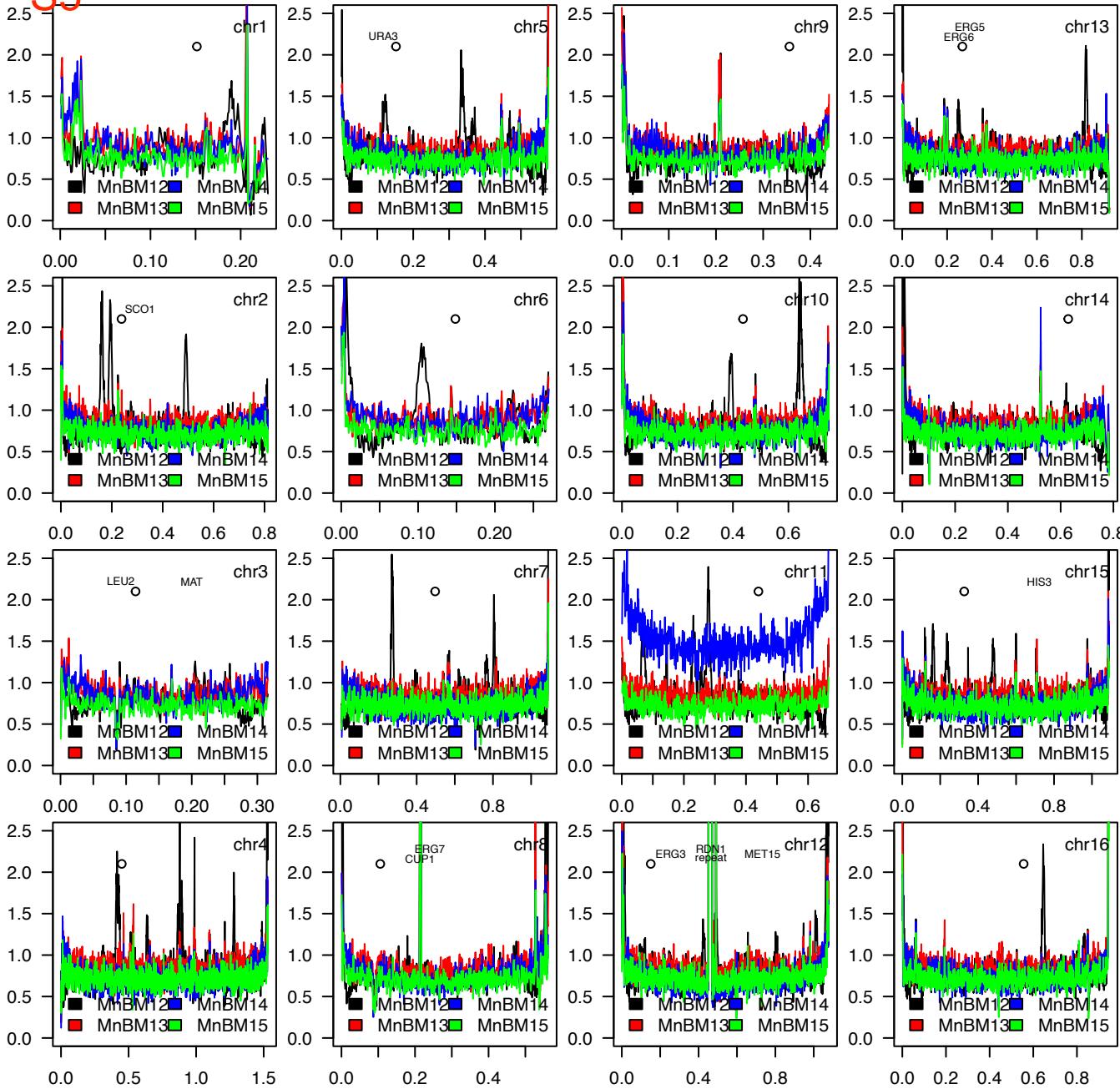
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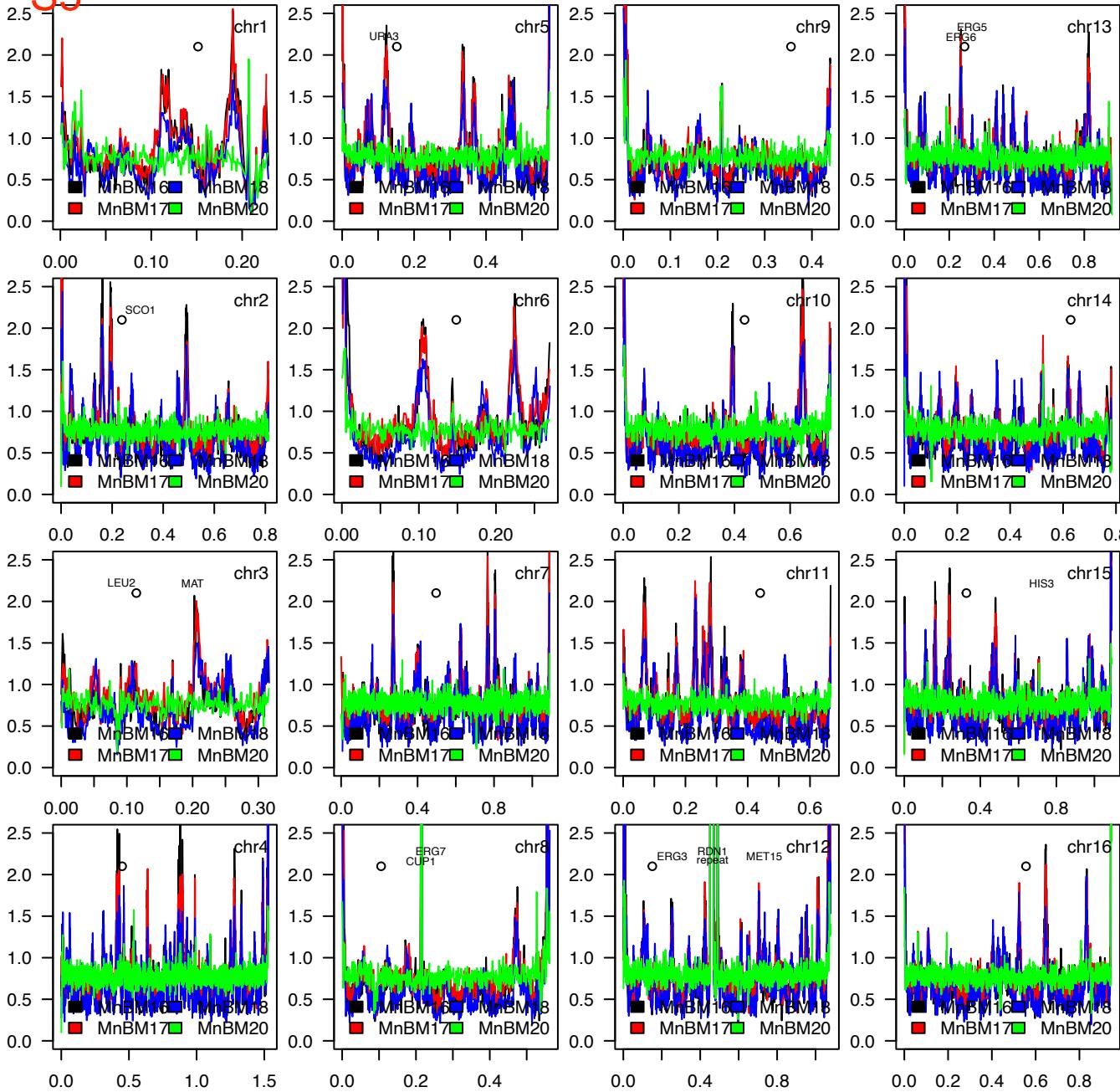
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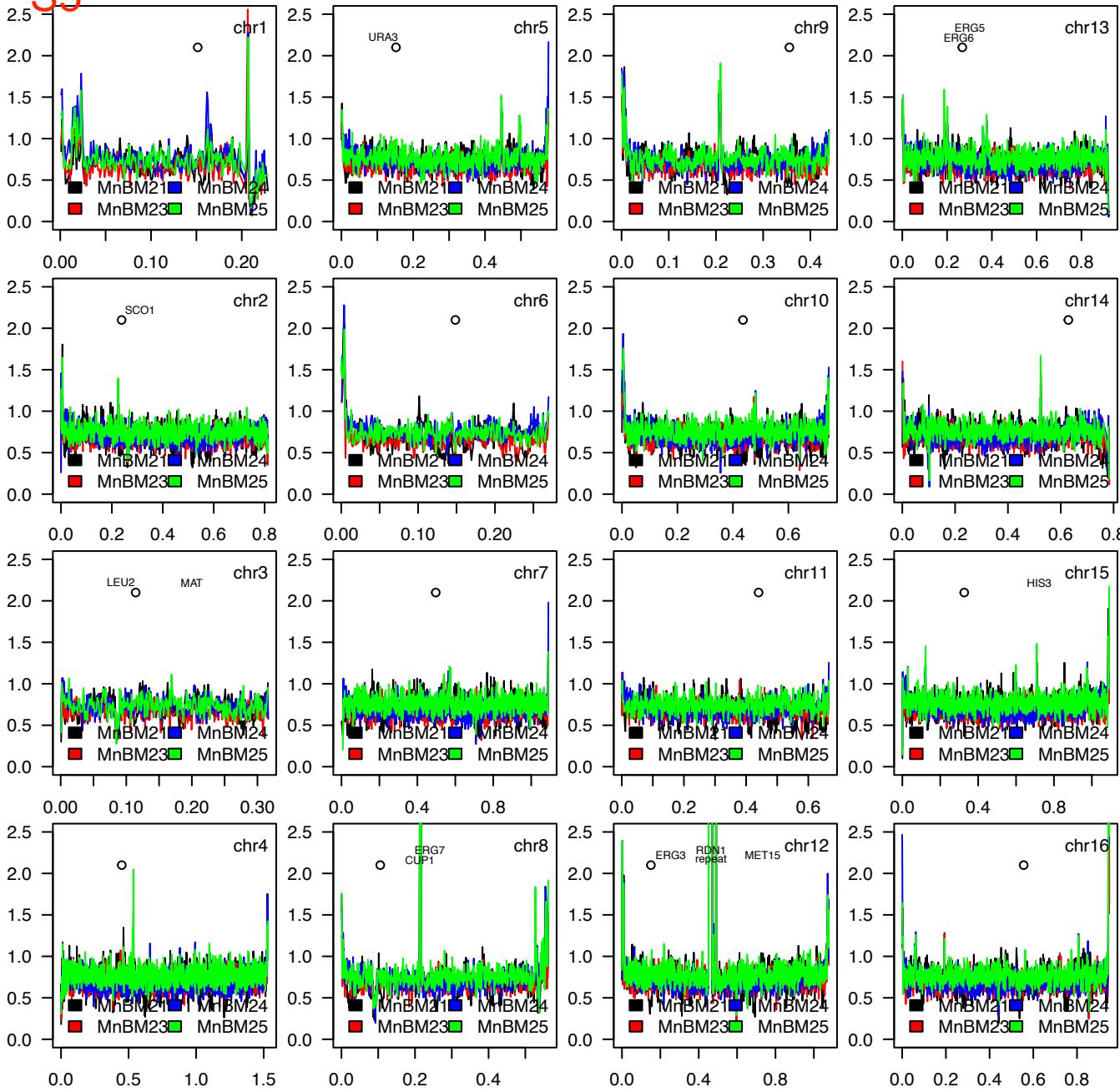
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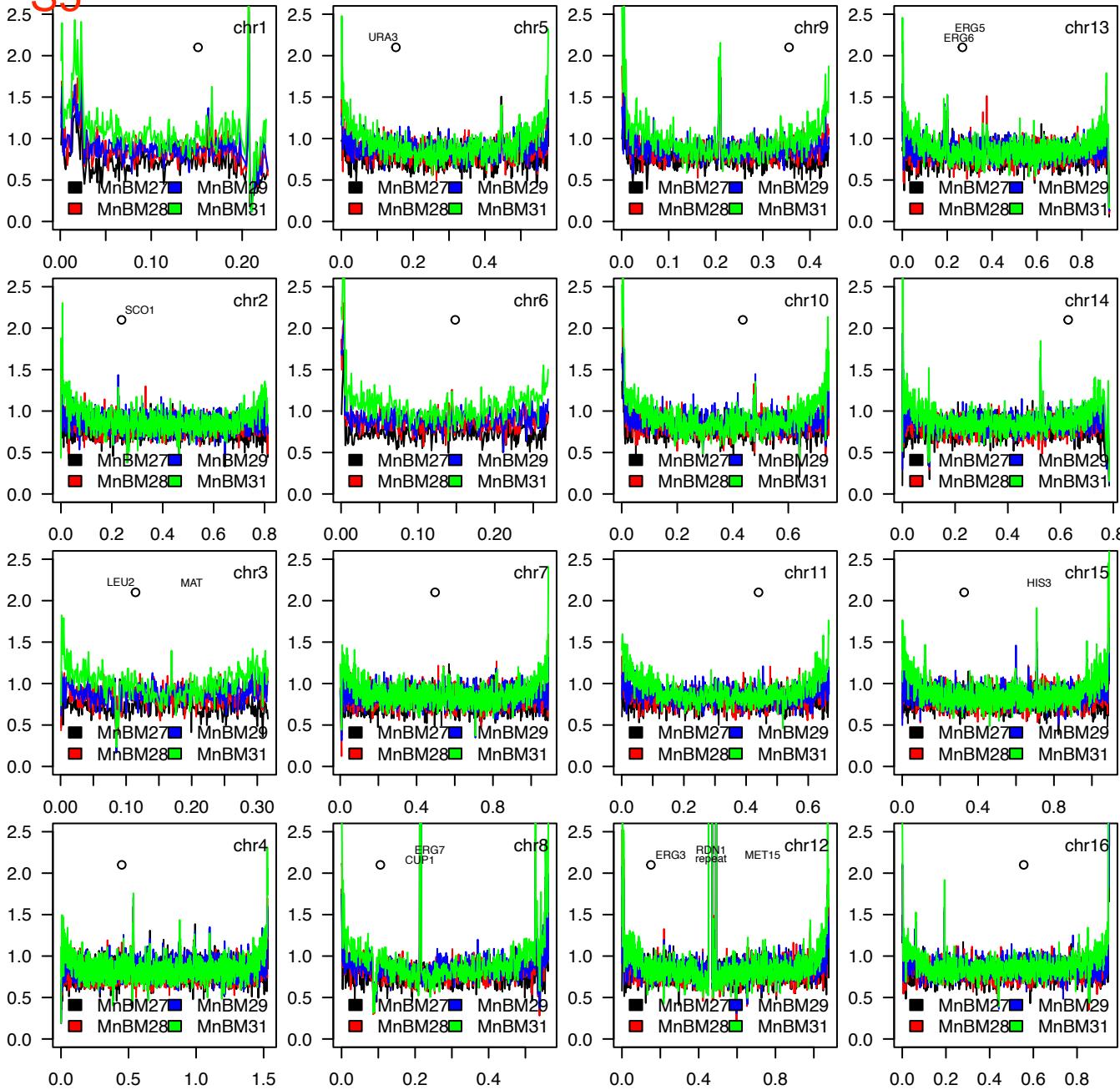
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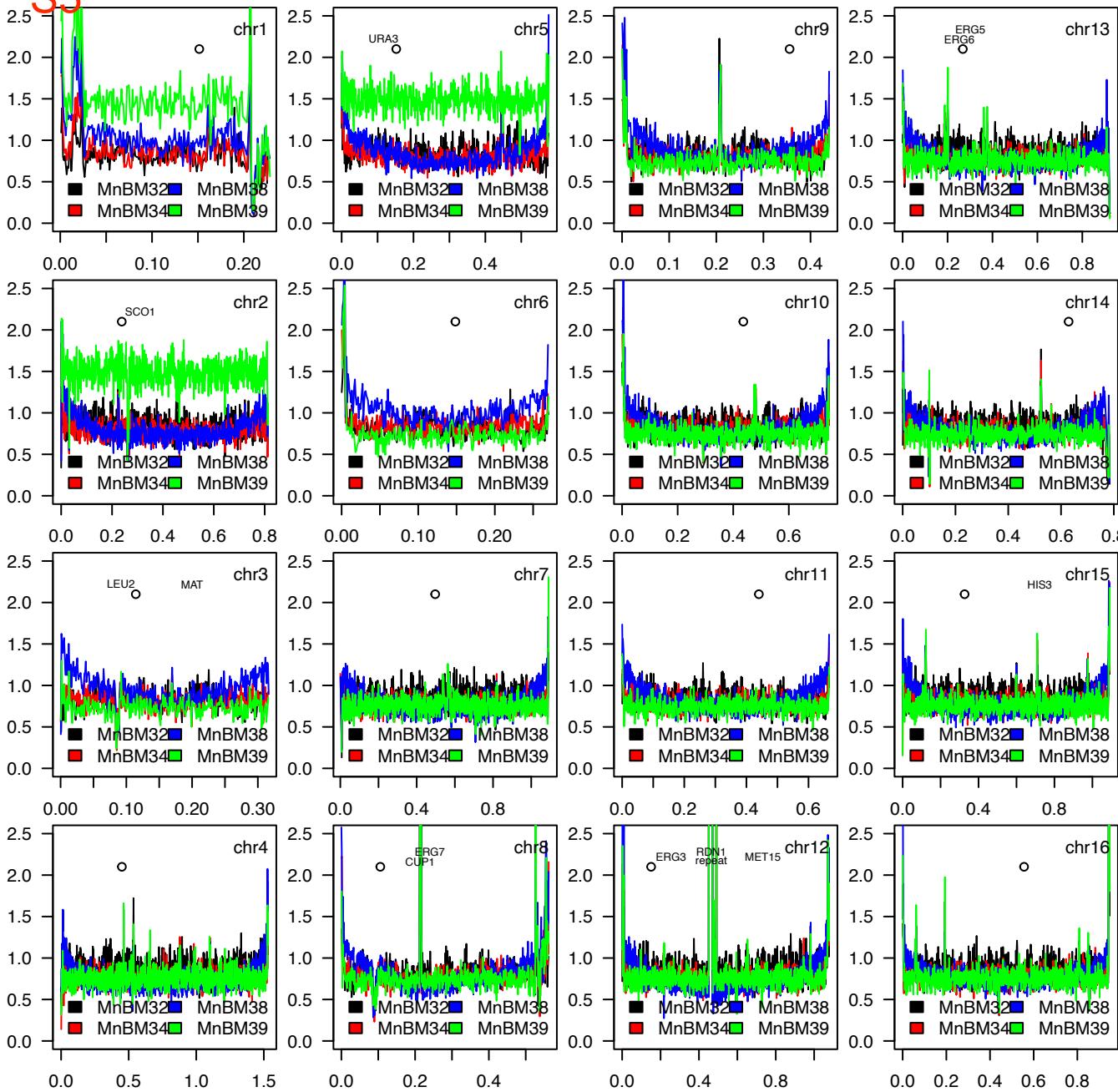
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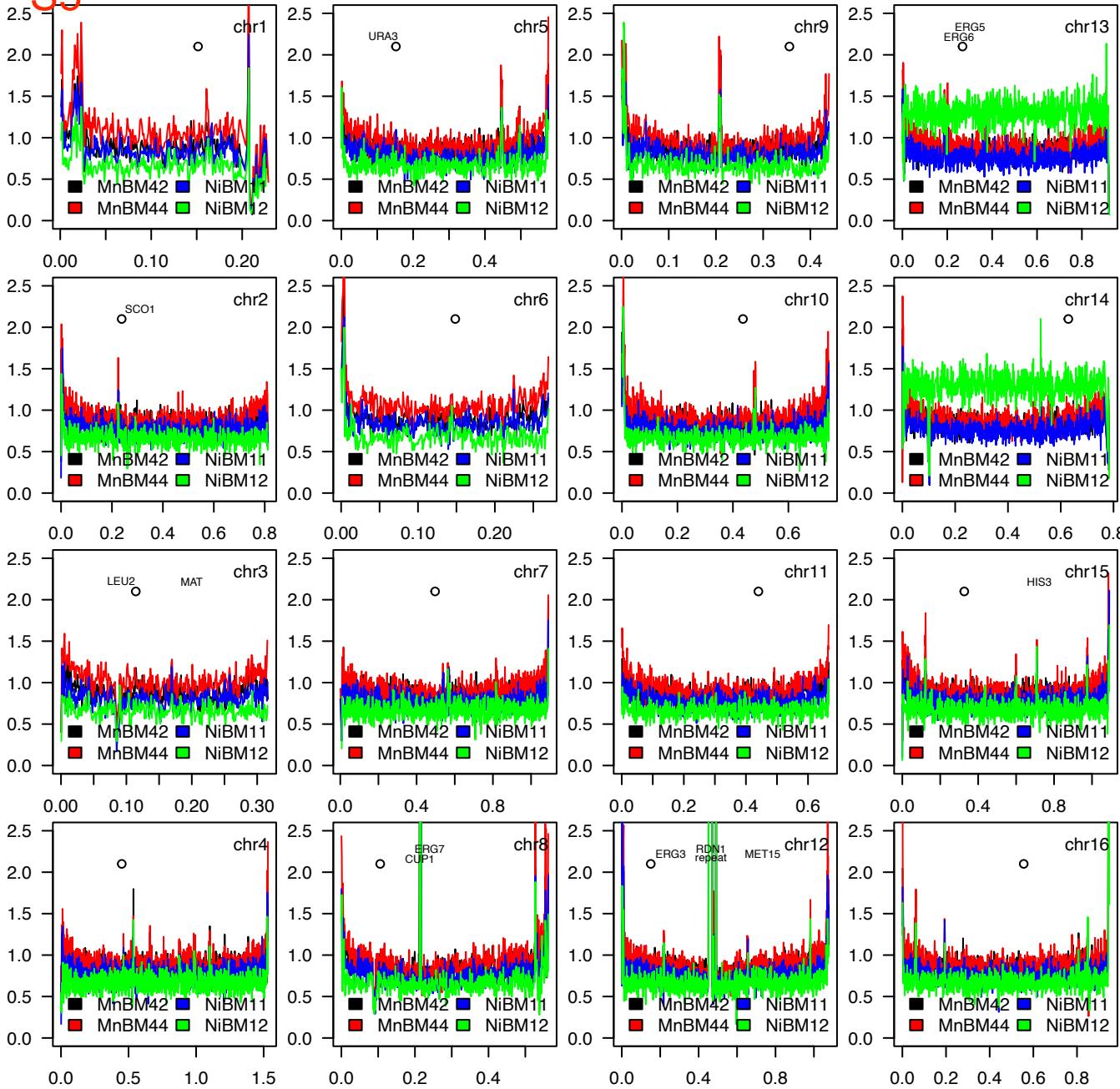
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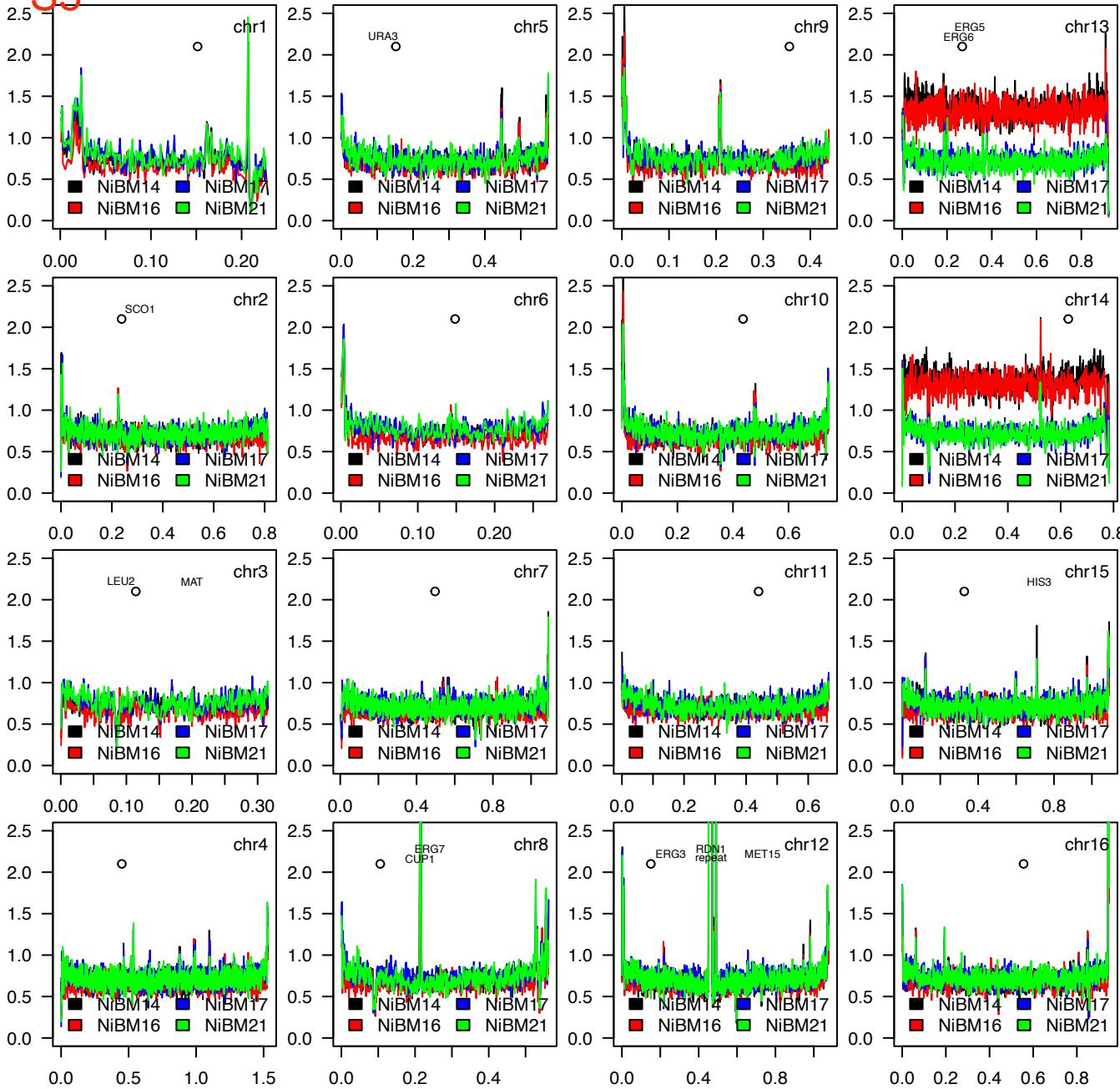
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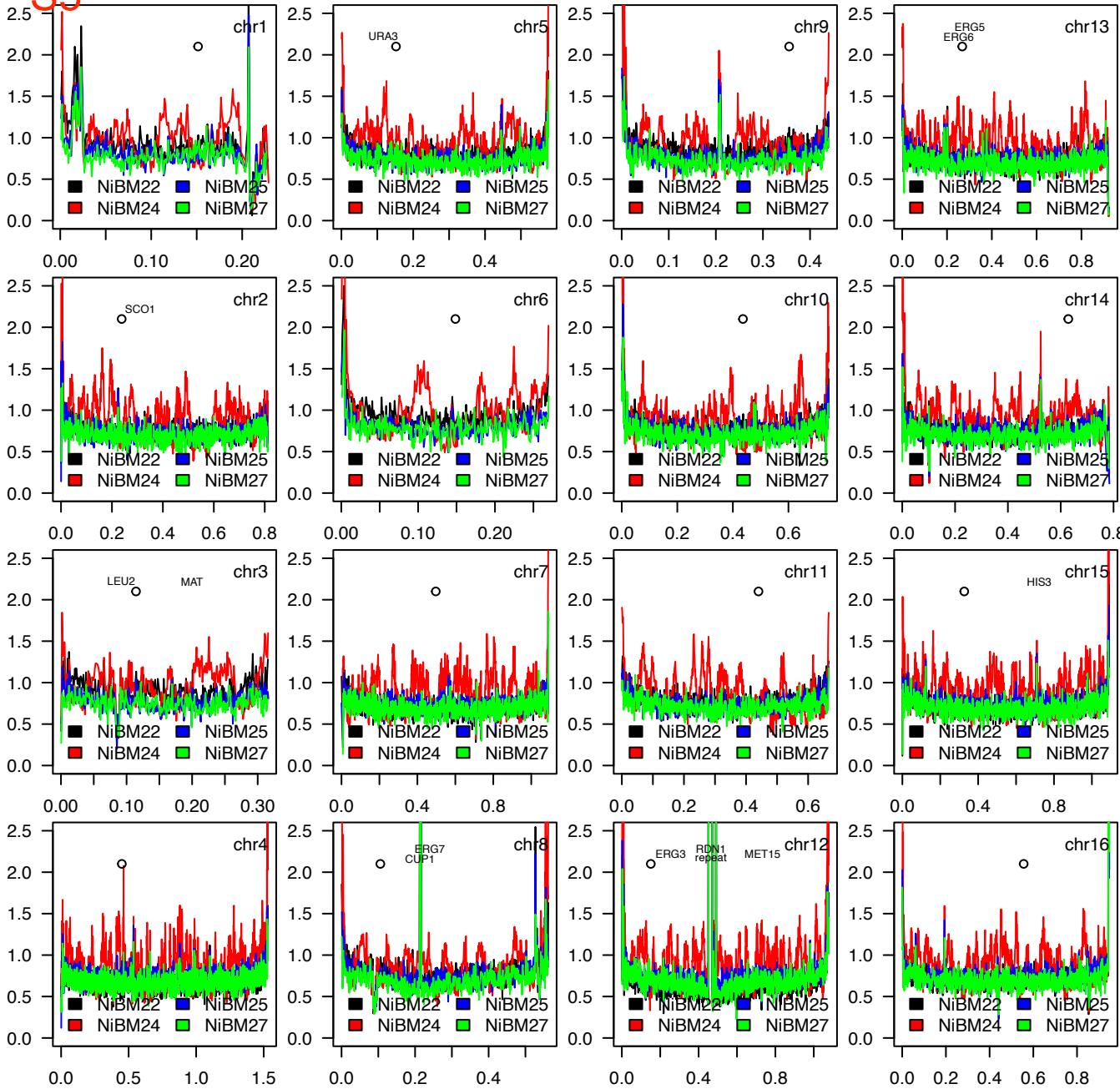
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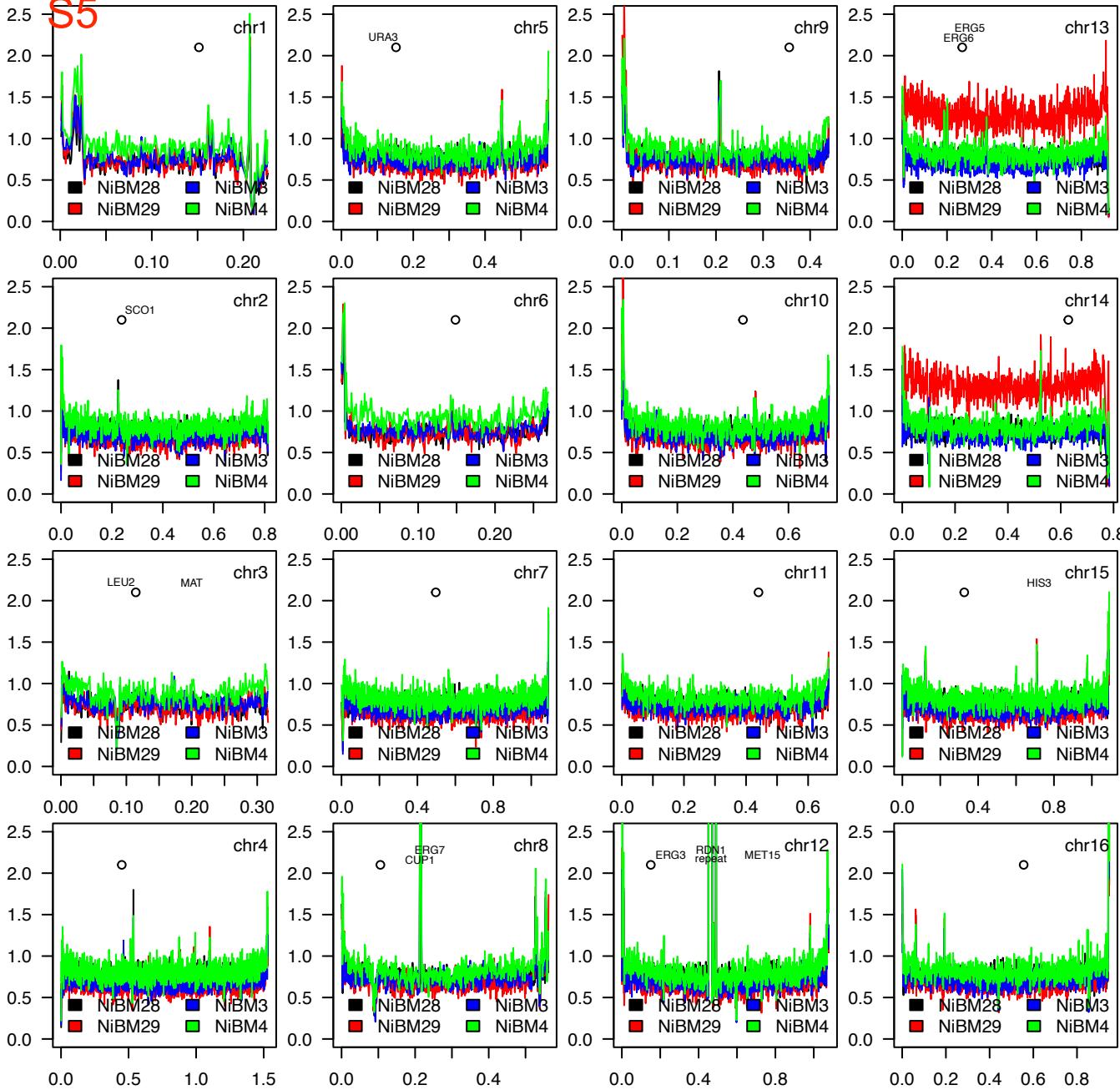
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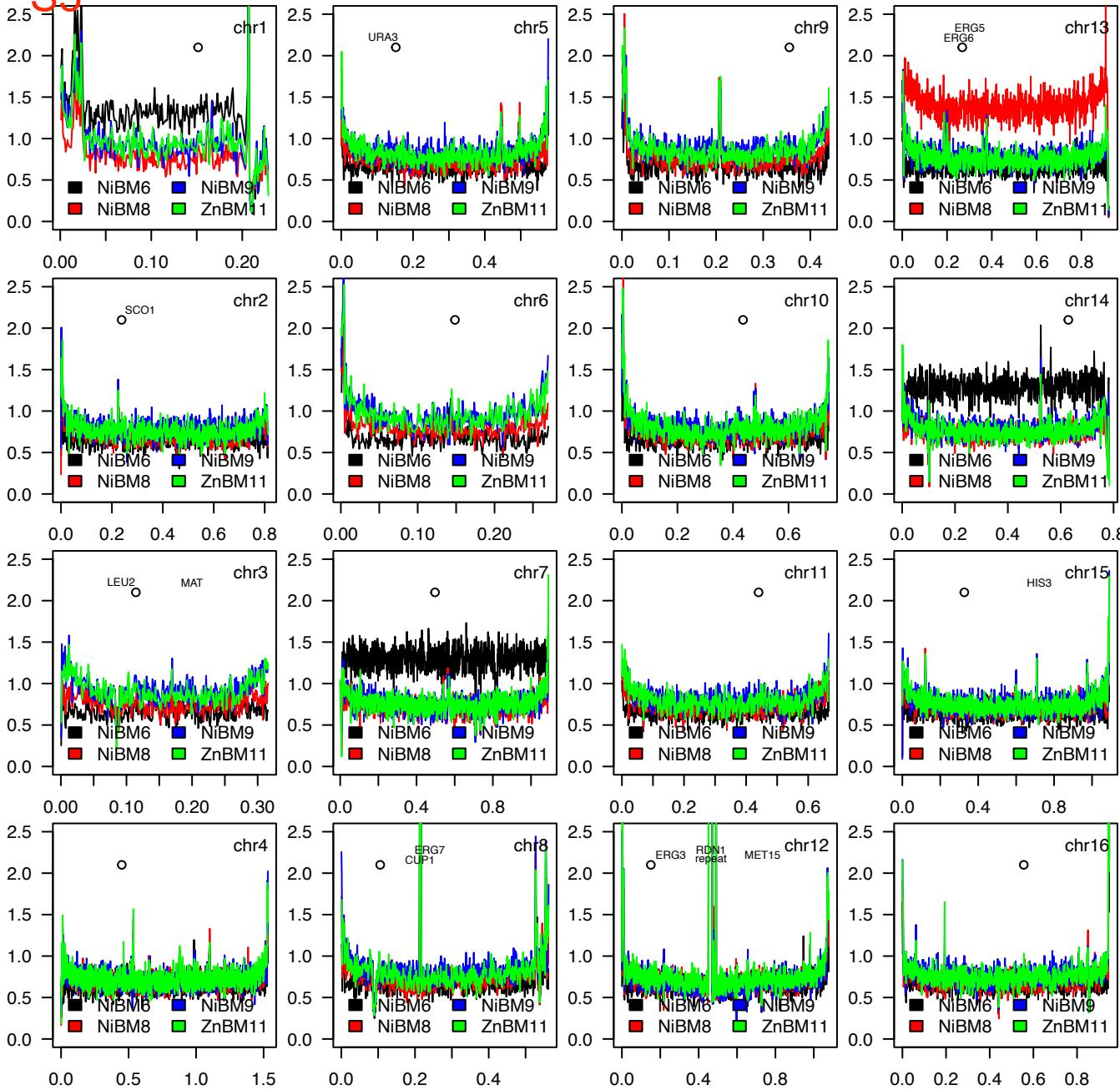
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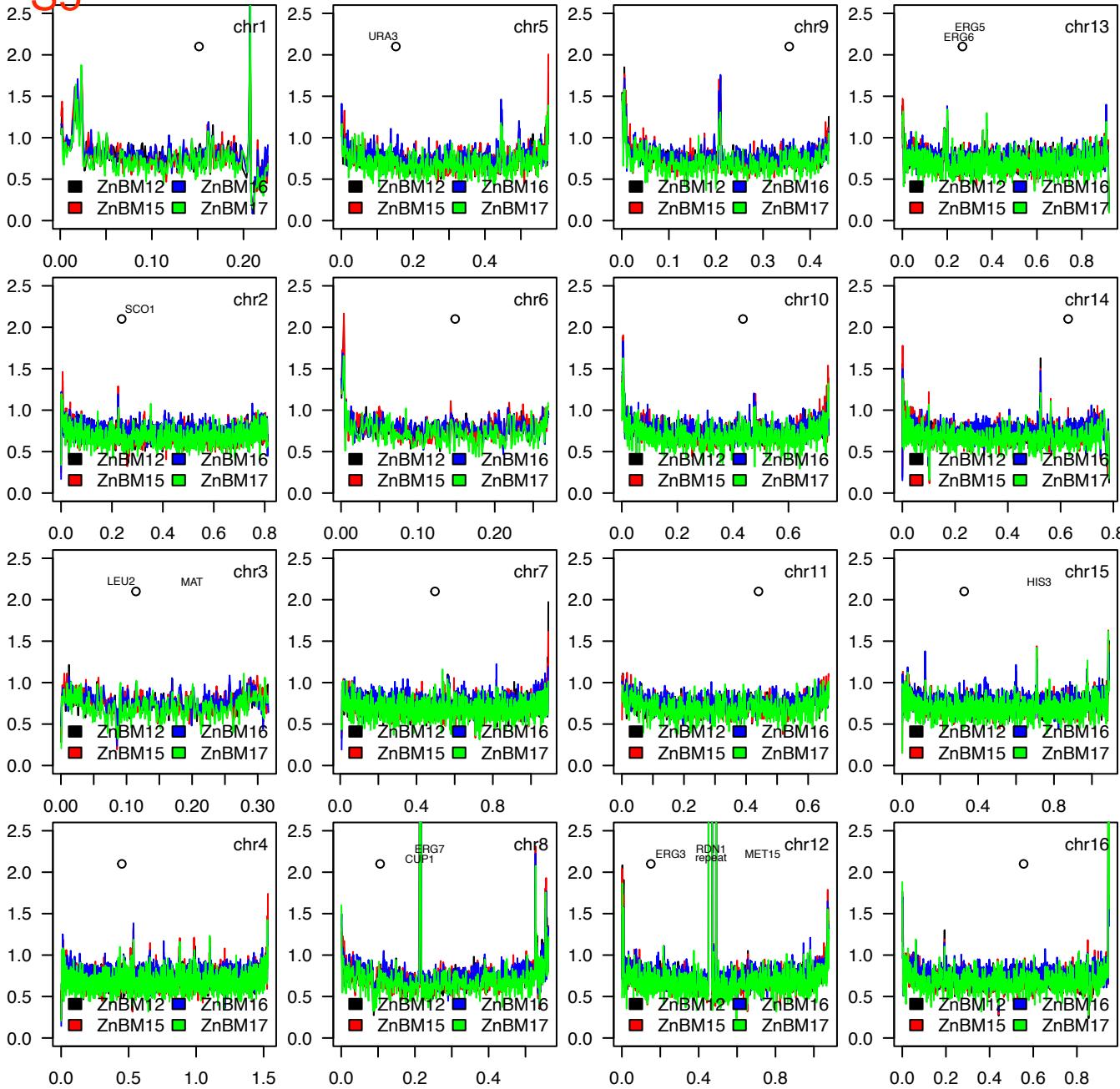
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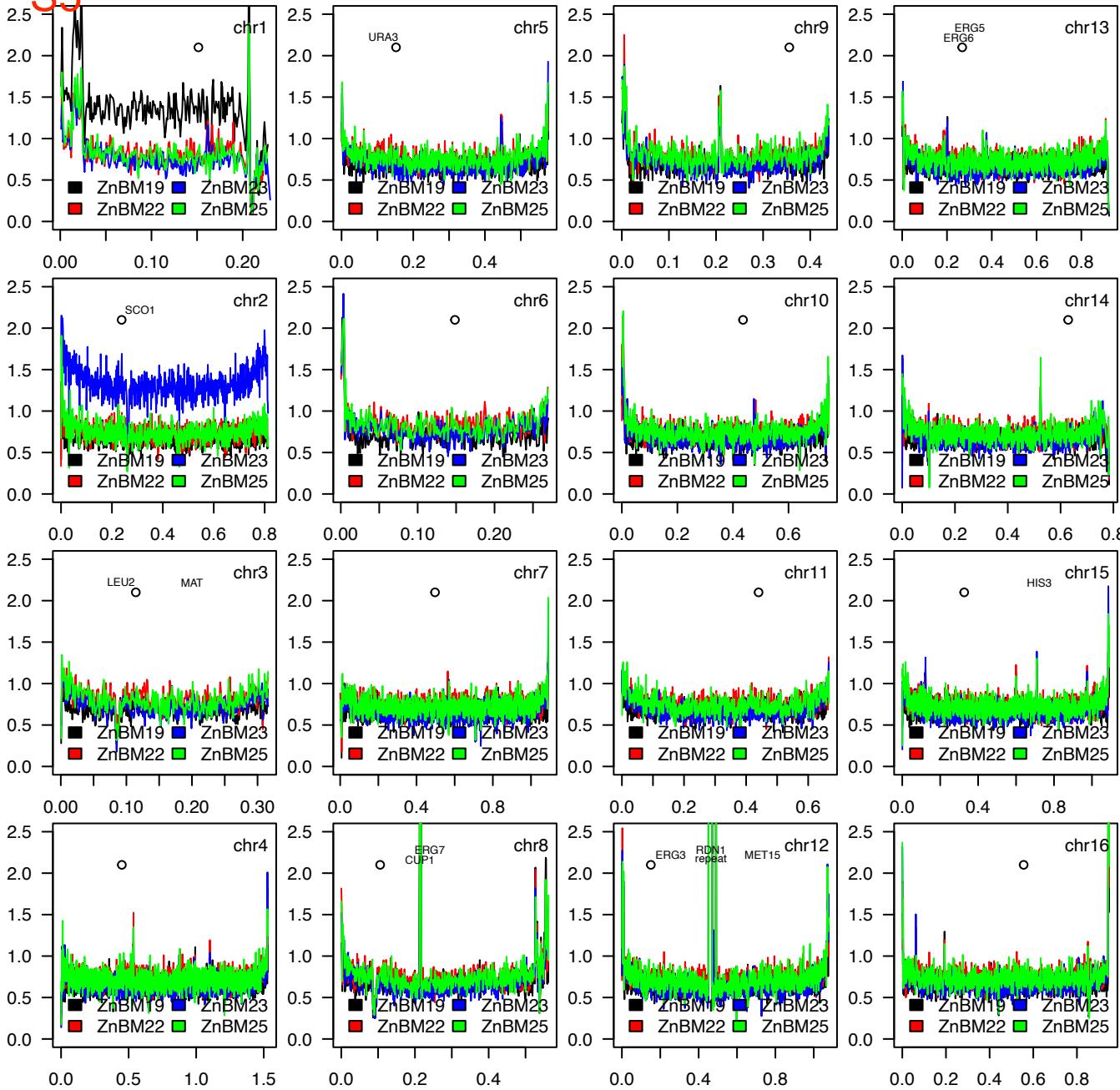
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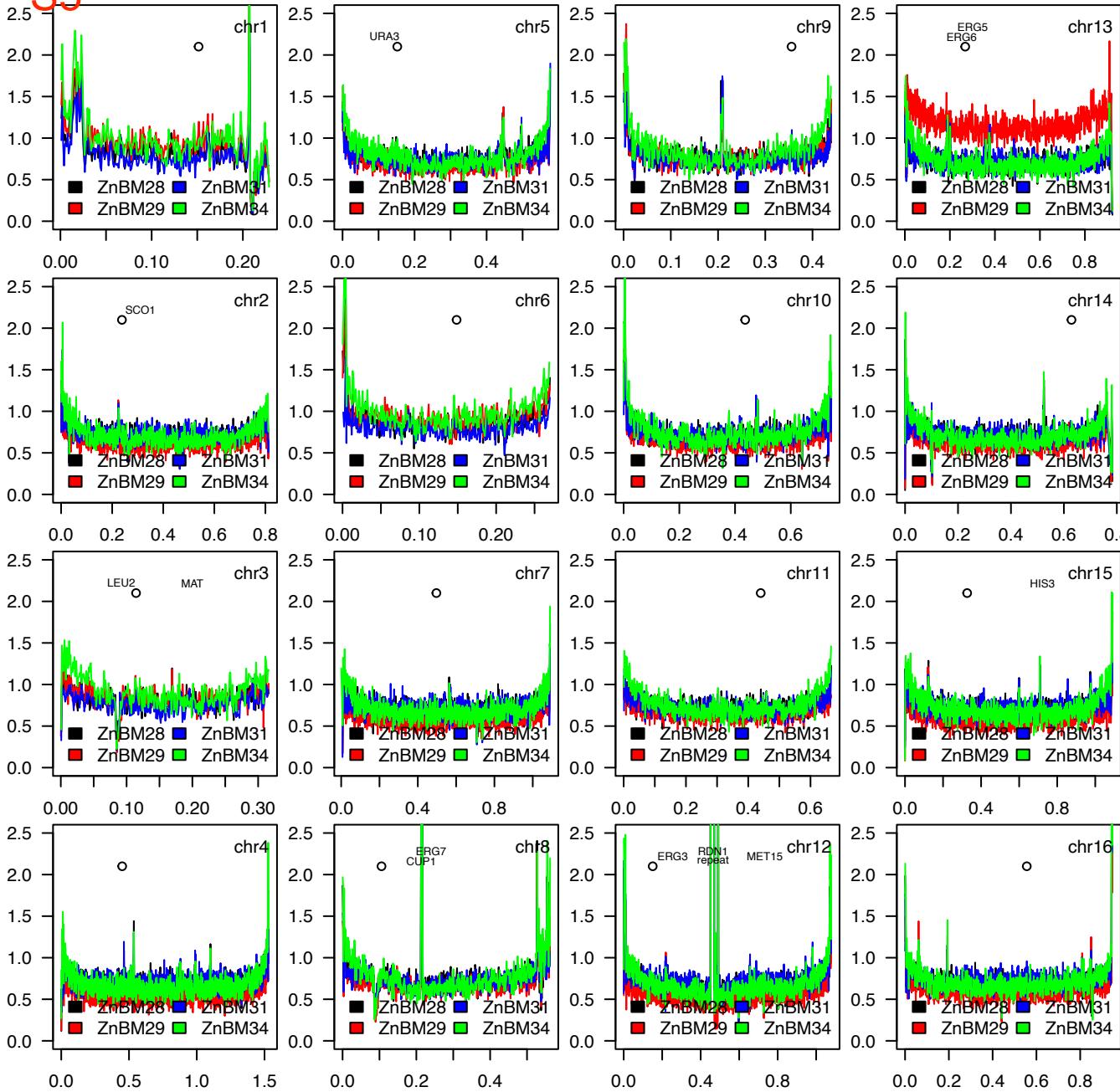
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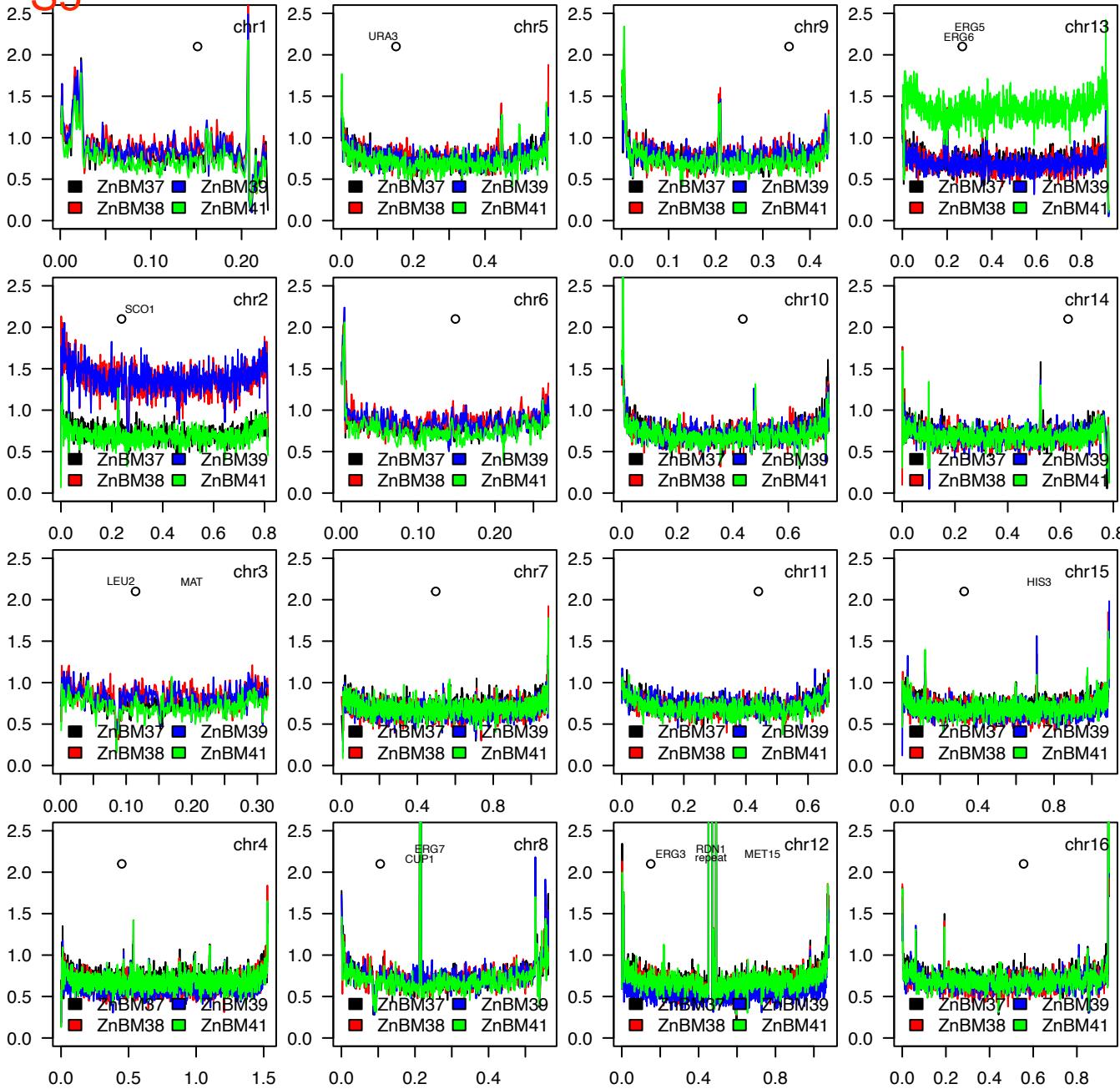
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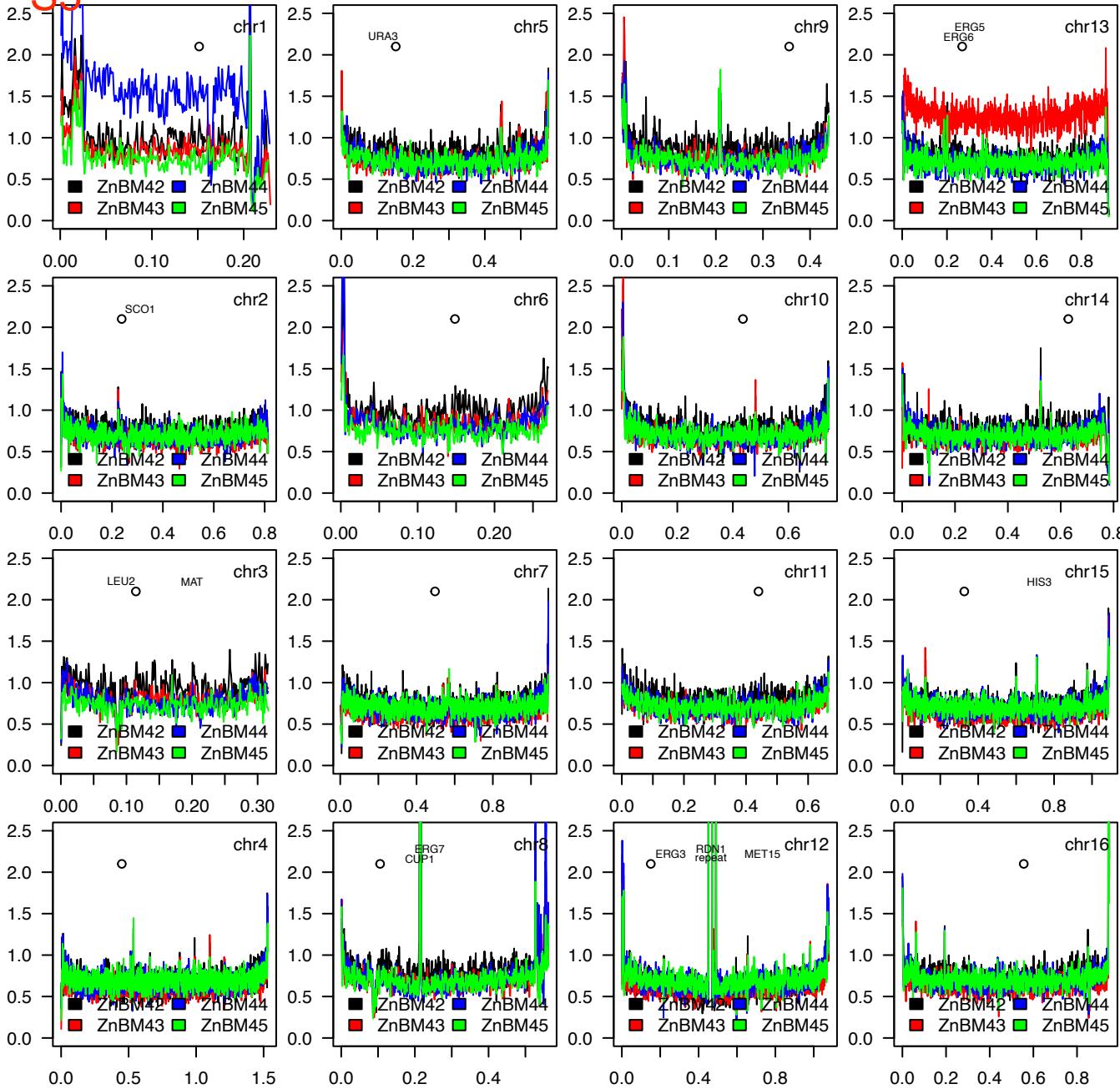
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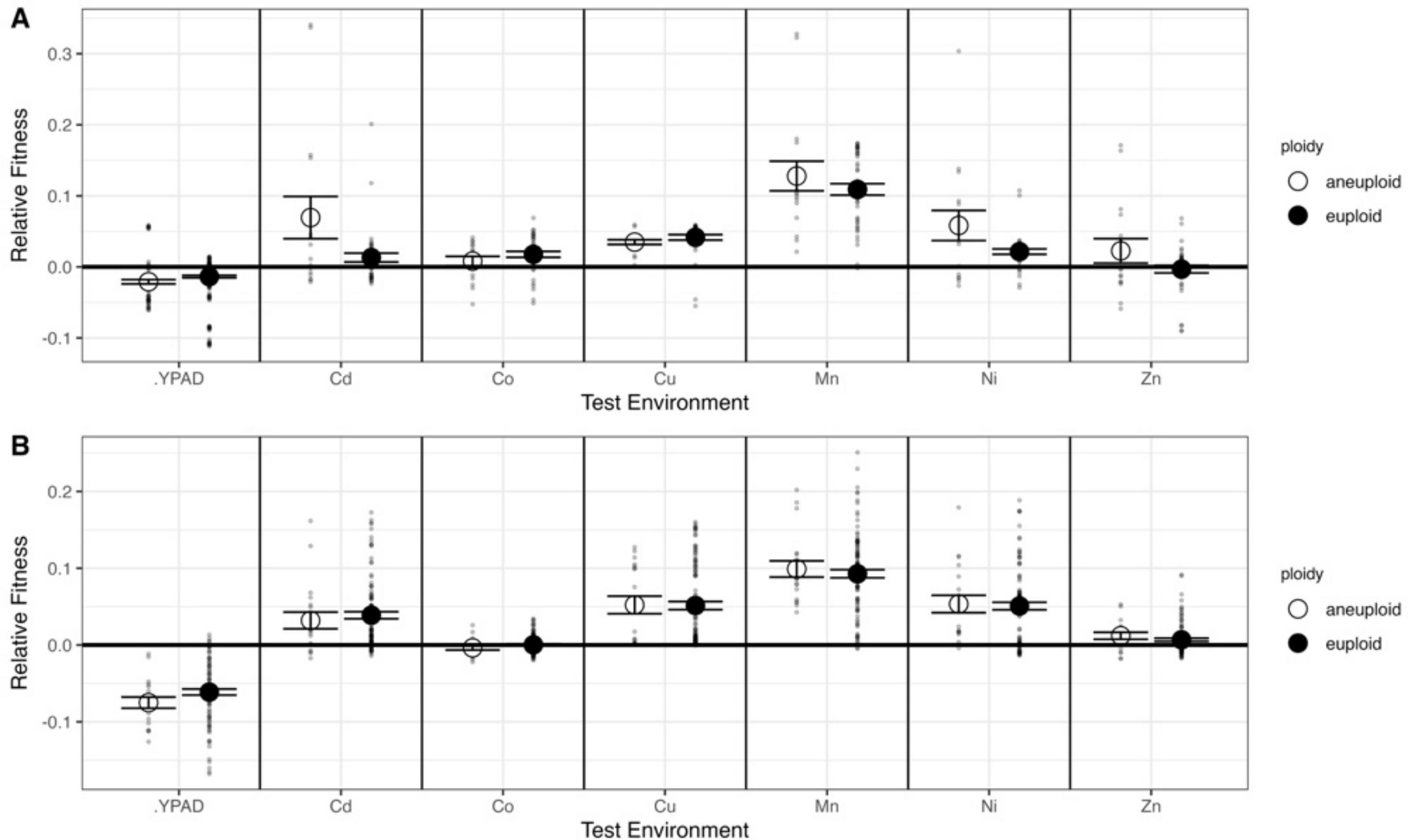


S5



S5





A

	Chromosome	W303	Cd.37	Cd.39	Cd.44	Cd.45	Co.2	Mn.14	Mn.39	Ni.6	Ni.8	Ni.12	Ni.14	Ni.16	Ni.29	Zn.19	Zn.23	Zn.29	Zn.38	Zn.39	Zn.41	Zn.43	Zn.44	Zn.47
I	1	1.0	1.0	1.0	1.0	1.4	0.9	1.1	1.6	1.7	1.0	0.9	0.9	0.9	1.0	1.8	1.1	1.4	1.2	1.2	1.0	1.2	2.2	0.6
II	1	1.7	1.7	1.6	1.0	1.0	1.0	1.8	0.9	1.0	0.9	0.9	0.9	0.9	1.0	2.0	1.0	1.9	2.0	1.0	1.0	1.0	1.0	0.4
III	1	1.7	1.0	1.0	1.3	0.9	1.1	0.8	0.9	1.0	0.9	0.9	0.9	0.9	0.9	1.0	1.3	1.1	1.1	0.9	1.1	1.1	1.1	0.4
IV	1	1.6	1.6	1.0	0.9	1.0	0.9	0.9	0.9	1.0	1.0	0.9	0.9	0.9	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9	1.0	0.4
V	1	0.9	0.9	1.0	1.1	1.0	1.0	1.0	1.7	0.9	1.0	0.9	0.9	0.9	1.0	0.9	1.0	1.0	1.0	1.0	0.9	1.0	1.0	0.8
VI	1	1.1	1.0	1.0	1.4	0.9	1.1	0.8	0.9	1.0	0.9	0.9	0.9	0.9	1.0	0.9	1.1	1.4	1.2	1.1	1.0	1.2	1.1	0.6
VII	1	0.8	0.9	1.0	1.0	1.0	1.0	0.9	1.8	1.0	0.9	0.9	0.9	0.9	1.0	1.0	0.9	0.9	0.9	1.0	0.9	1.0	1.0	0.8
VIII	1	0.8	0.9	1.0	1.1	1.0	1.0	0.9	0.9	1.0	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	0.9	1.0	1.0	1.0	0.8
IX	1	0.8	0.9	1.2	1.2	0.9	1.0	0.9	0.9	1.0	0.9	0.9	1.0	0.9	1.0	0.9	1.0	1.2	1.1	1.1	1.0	1.1	1.1	0.8
X	1	0.8	0.9	1.0	1.0	1.0	1.0	1.0	0.9	0.9	1.0	0.9	0.9	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.6
XI	1	0.8	0.9	1.0	1.1	1.0	2.0	0.9	0.9	1.0	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8
XII	1	0.8	0.8	0.7	0.9	0.8	0.8	0.9	0.7	0.7	0.7	0.7	0.7	0.7	1.1	0.7	0.8	0.8	0.8	0.9	0.7	0.8	1.0	
XIII	1	0.8	0.9	1.0	1.0	1.9	1.0	0.9	0.9	1.9	1.8	1.8	1.8	1.8	1.0	1.0	1.0	1.8	1.0	1.0	1.9	1.9	1.0	1.6
XIV	1	0.8	0.9	1.1	1.0	1.0	1.0	1.0	0.9	1.8	1.0	1.8	1.8	1.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8
XV	1	0.8	0.8	1.0	1.0	1.0	1.0	1.0	0.9	0.9	1.0	1.0	0.9	0.9	1.0	1.0	0.9	0.9	1.0	0.9	1.0	1.0	0.8	
XVI	1	0.8	0.9	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.0	1.0	0.9	0.9	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0	0.8	

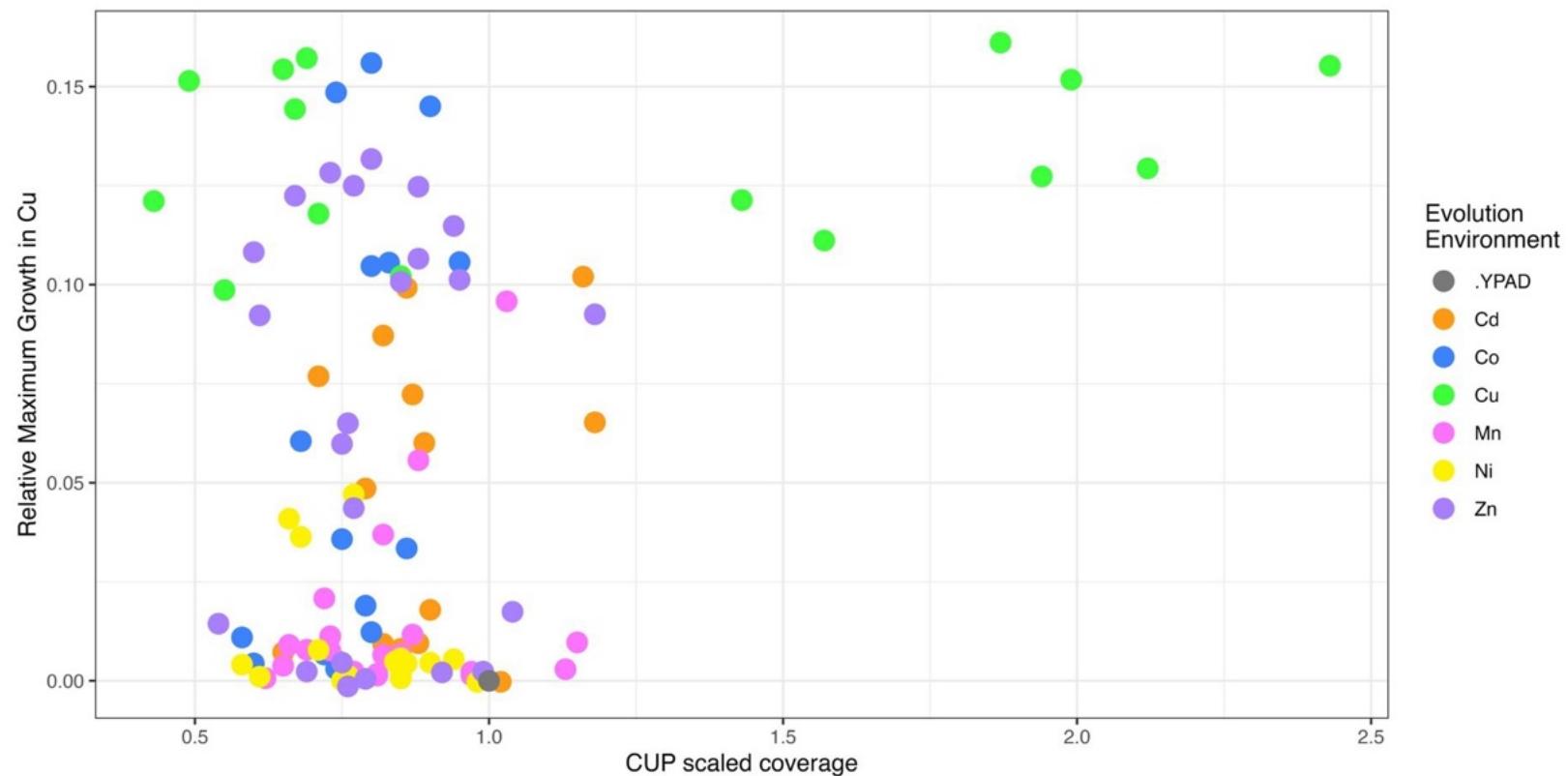
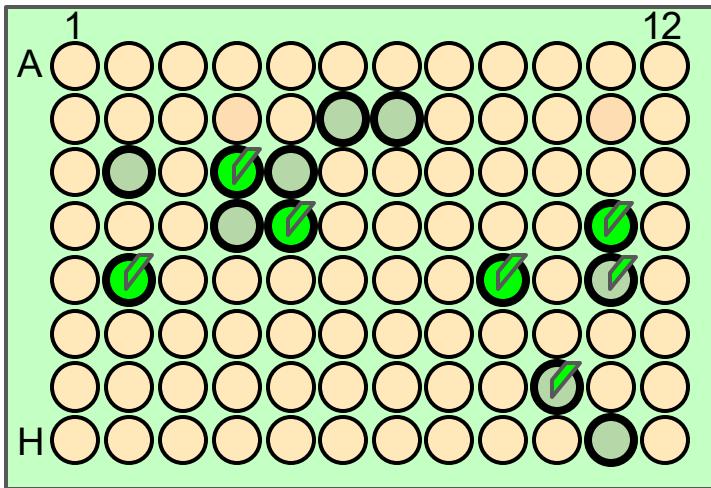
B

Plate A



- TFG1
- Growth with other mutation
- ▨ CUP1 increase

Line	Well	Gene(s)
CuBM10	4D	RSE1,NGG1
CuBM11	5D	TFG1,NGG1
CuBM12	6B	RSE1,NGG1
CuBM13	7B	RSE1,NGG1
CuBM14	9E	NGG1,TFG1,BUL1,FIG4,PYK2
CuBM15	10G	COQ1
CuBM17	11D	TFG1,NGG1,ABP1,ROG1,TFG1,PRP2
CuBM18	11E	NGG1
CuBM3	11H	PMA1
CuBM4	5C	RSC1,NGG1,RSE1
CuBM6	2C	DNF1,ATG2,BLM10,TFG1
CuBM7	2E	NGG1
CuBM9	4C	MMS4,TFG1,KSP1,NGG1

