

**ADDITIONAL FILE 1: DATA OVERVIEW OF THE TROPHECTODERM BIOPSIES AND
CORRESPONDING BIOPSIED BLASTOCYSTS**

Table 1. Characteristics of the blastocyst samples, concentration after WGA and coverage rate.

Figure 1. Pictures and genome-wide haplarithm plots of the trophectoderm biopsies and corresponding biopsied blastocysts.

Figure 2. Haplarithm plots of chromosomes containing the five genes of interest of successfully analyzed trophectoderm biopsies and corresponding biopsied blastocyst combinations.

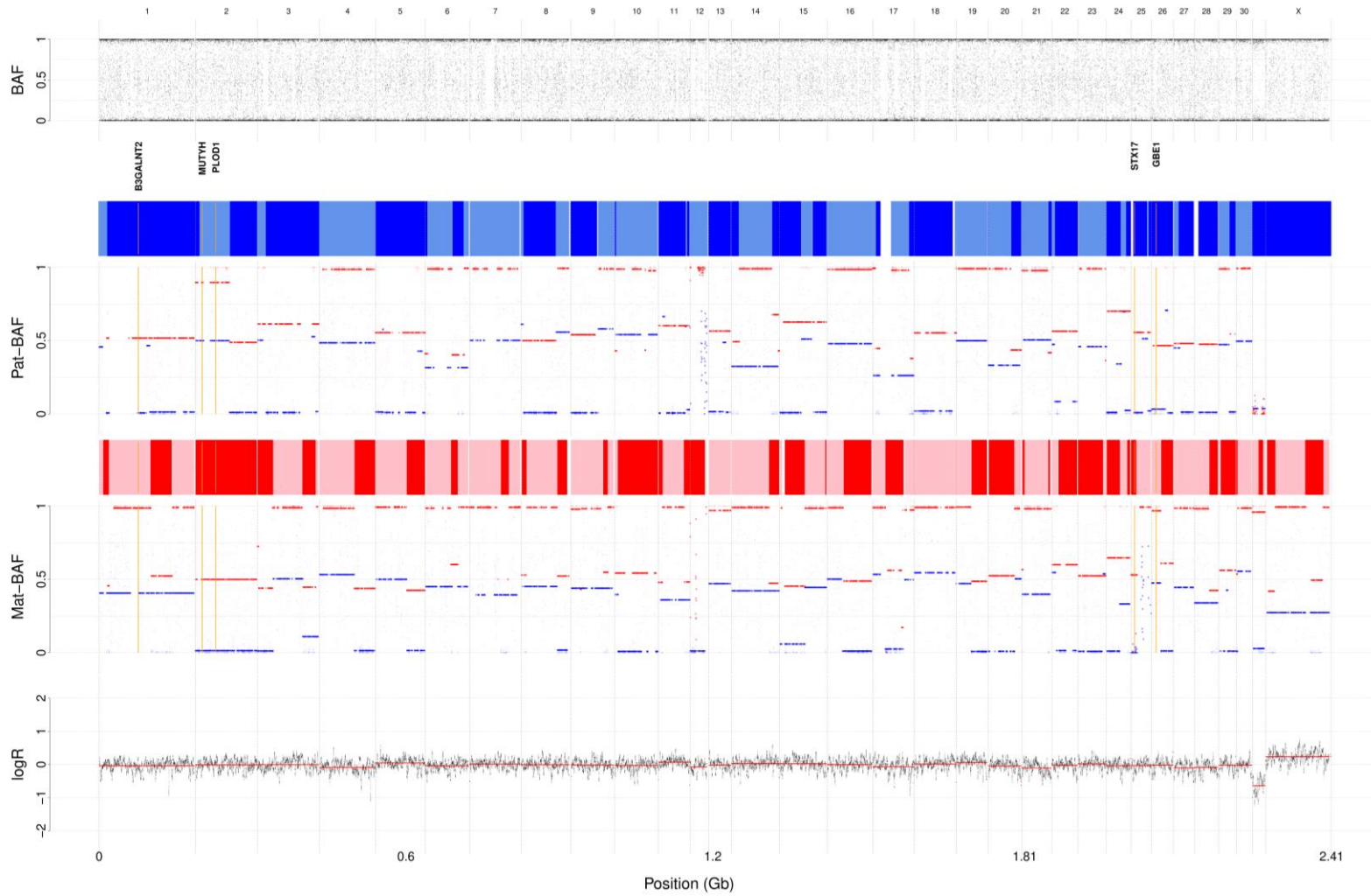
Table 1. Characteristics of the blastocyst samples, concentration after WGA and coverage rate.

Sample	Time of	Concentration after WGA		Coverage of analyzed		Sex
	collection (day post ICSI)	(ng/μL)		SNP genotypes (%)		
		Trophectoderm	Embryo	Trophectoderm	Embryo	
Mare01_Embryo01	8	644	772	55.38*	70.72*	♀
Mare01_Embryo02	9	622	640	53.34*	70.85*	♀
Mare01_Embryo03	9	770	580	58.22*	70.86*	♀
Mare01_Embryo04	9	590	674	58.84*	70.95*	♂
Mare02_Embryo01	8	586	742	26.40	70.99*	♀
Mare02_Embryo02	8	904	728	57.52*	70.96*	♂
Mare02_Embryo03	8	870	728	57.35*	70.61*	♂
Mare02_Embryo04	9	520	668	47.88	70.67*	♂
Mare02_Embryo05	9	882	632	50.90*	70.90*	♂
Mare02_Embryo06	9	356	678	47.61	67.01*	♂
Mare02_Embryo07	9	852	712	54.10*	70.63*	♂
Mare03_Embryo01	12	702	346	56.81*	70.62*	♀
Mare04_Embryo01	9	502	780	14.56	70.80*	♂
Mare04_Embryo02	9	436	1100	50.10	70.99*	♂
Average coverage (%)				49.22	70.54	
Average coverage successful (*) samples (%)				55.83	70.54	

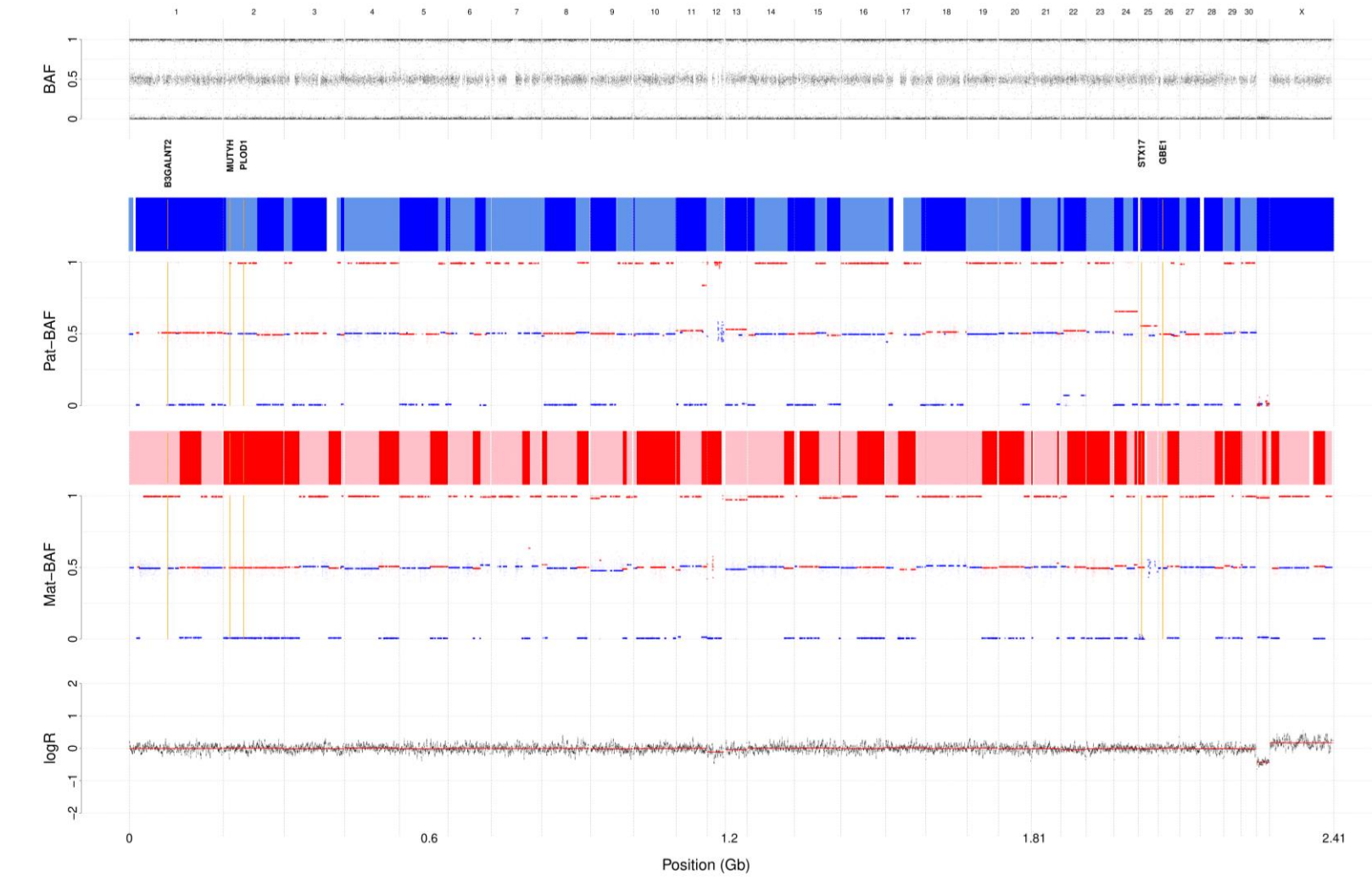
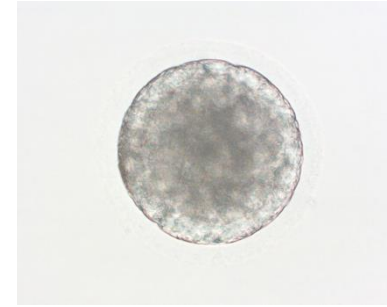
*Samples successfully analyzed by haplarithmis. ICSI: intracytoplasmic sperm injection; SNP: single nucleotide polymorphism; WGA: whole genome amplification.

Figure 1. Pictures and genome-wide haplarithm plots of the trophectoderm biopsies and corresponding biopsied blastocysts.

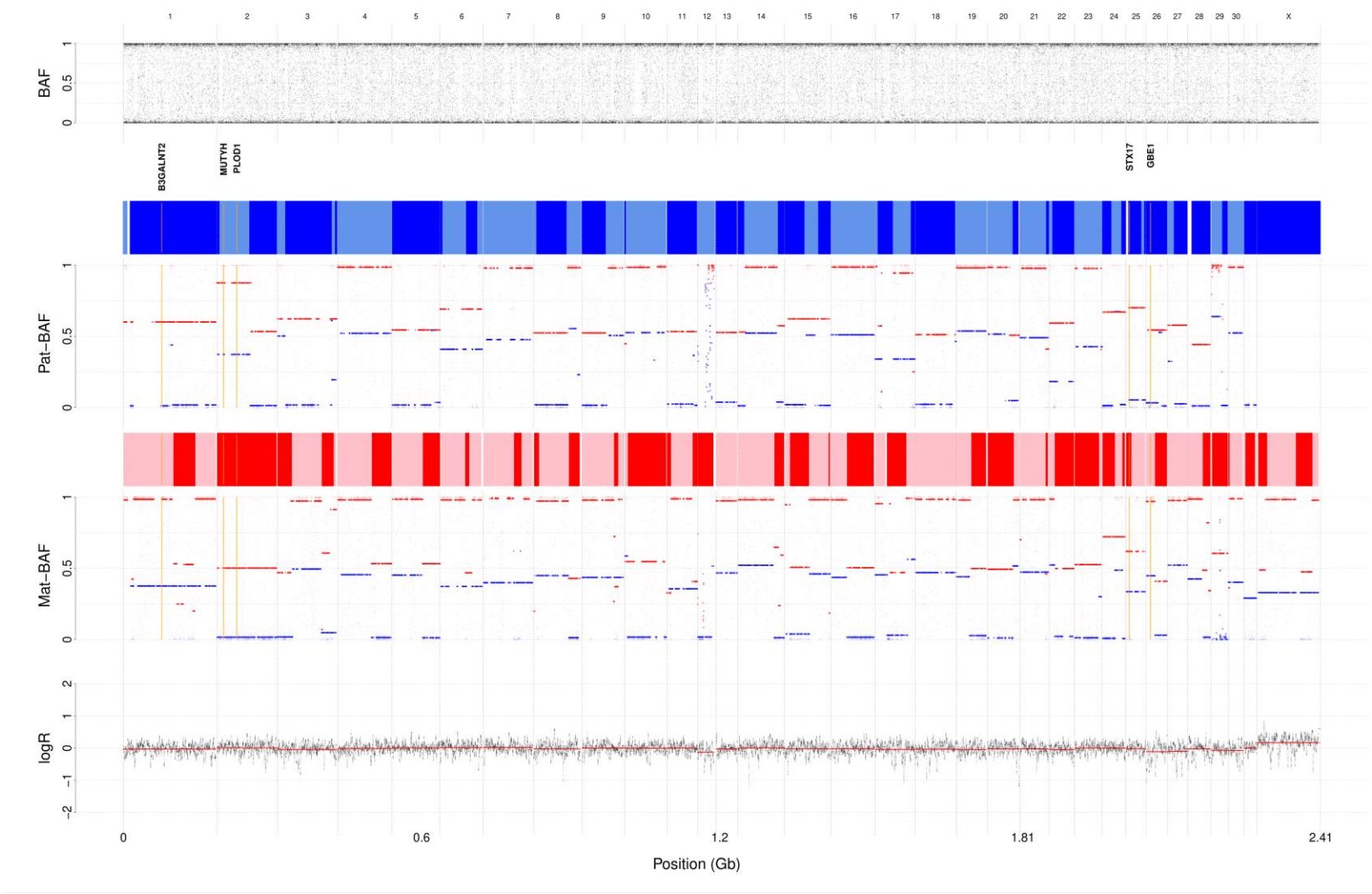
Mare01_Embryo01_Biopsy



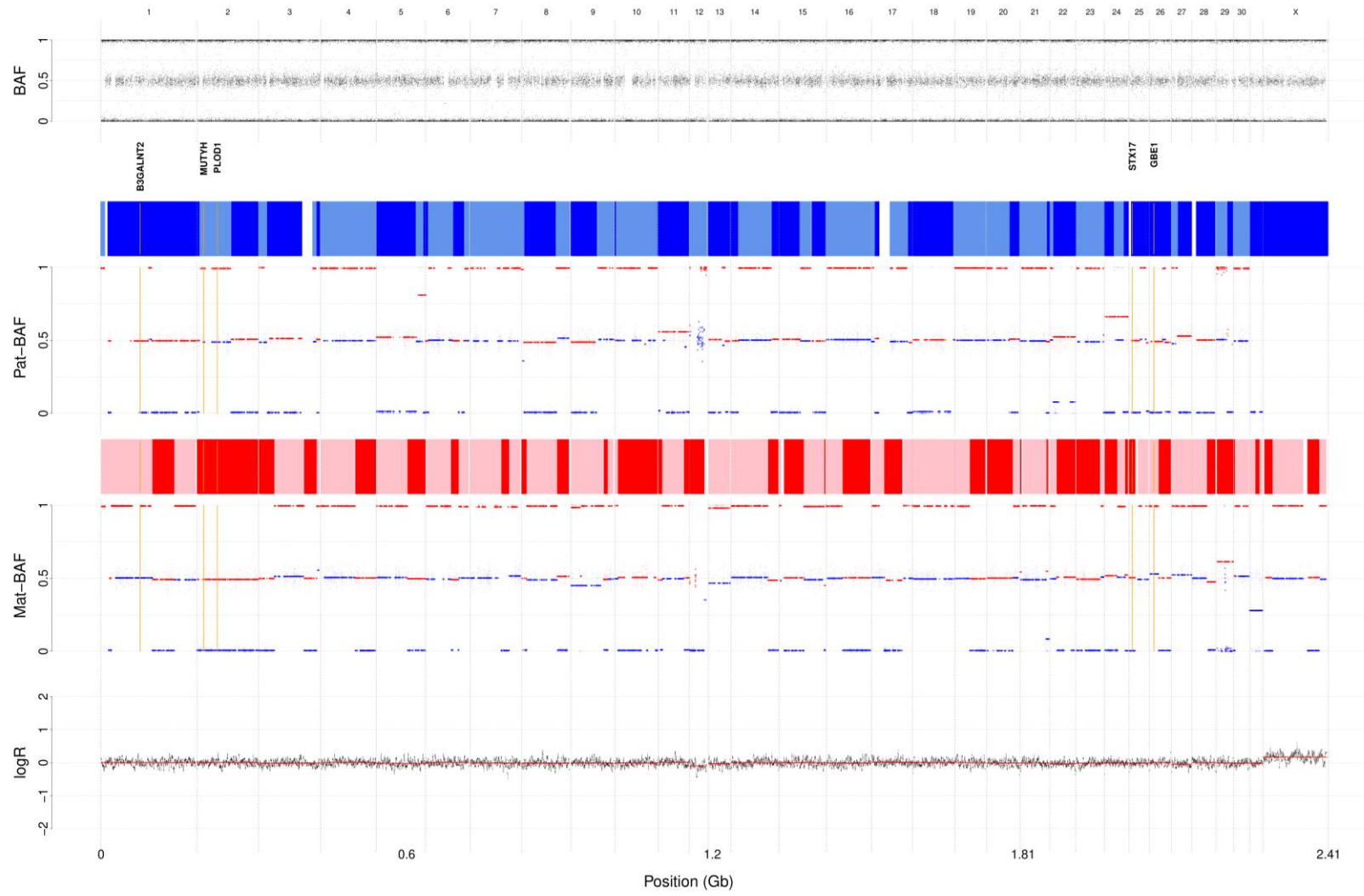
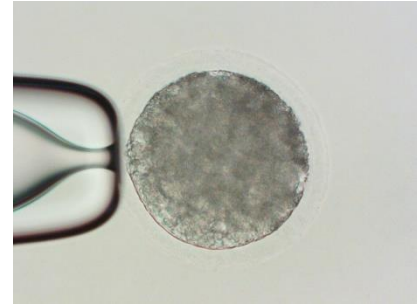
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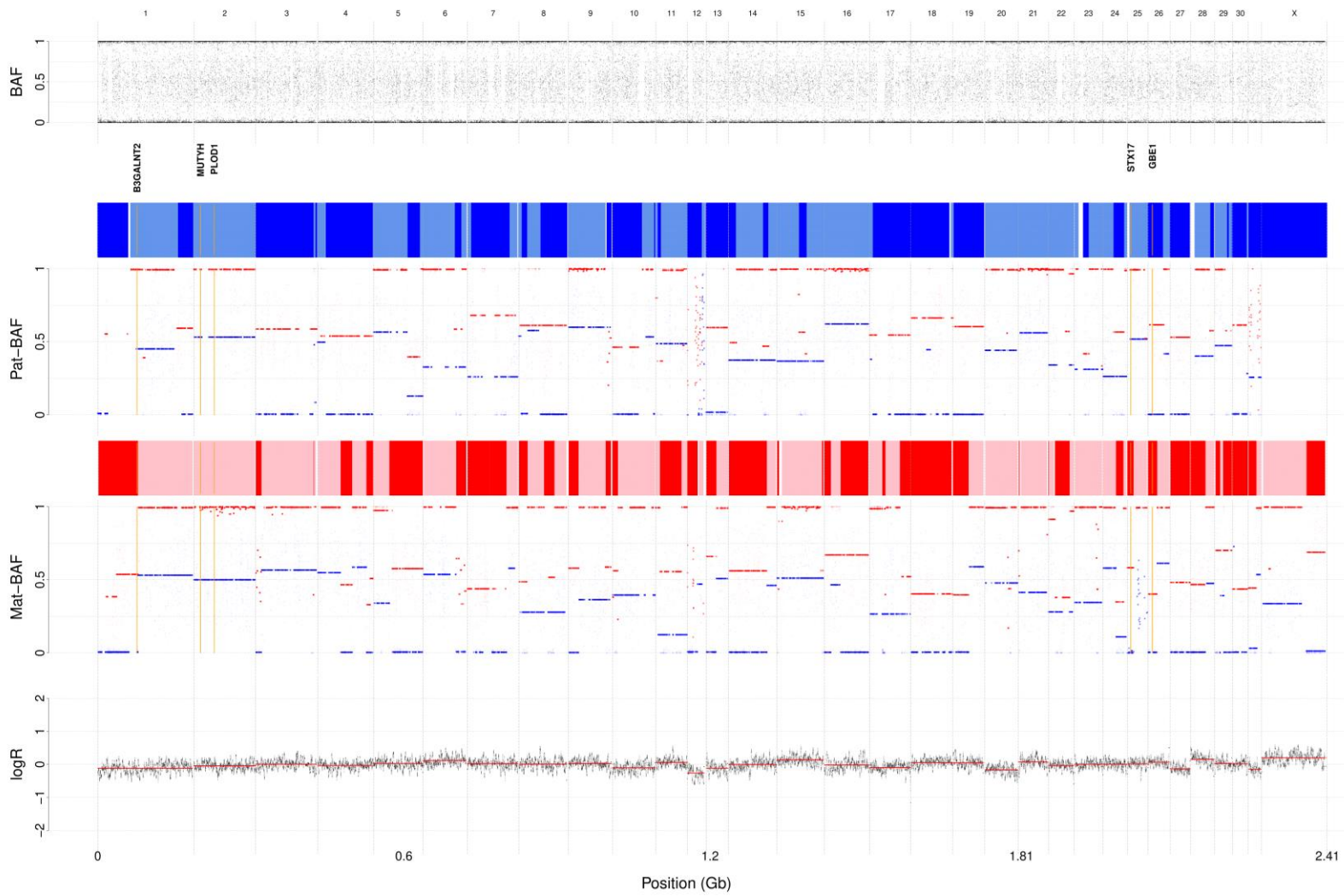
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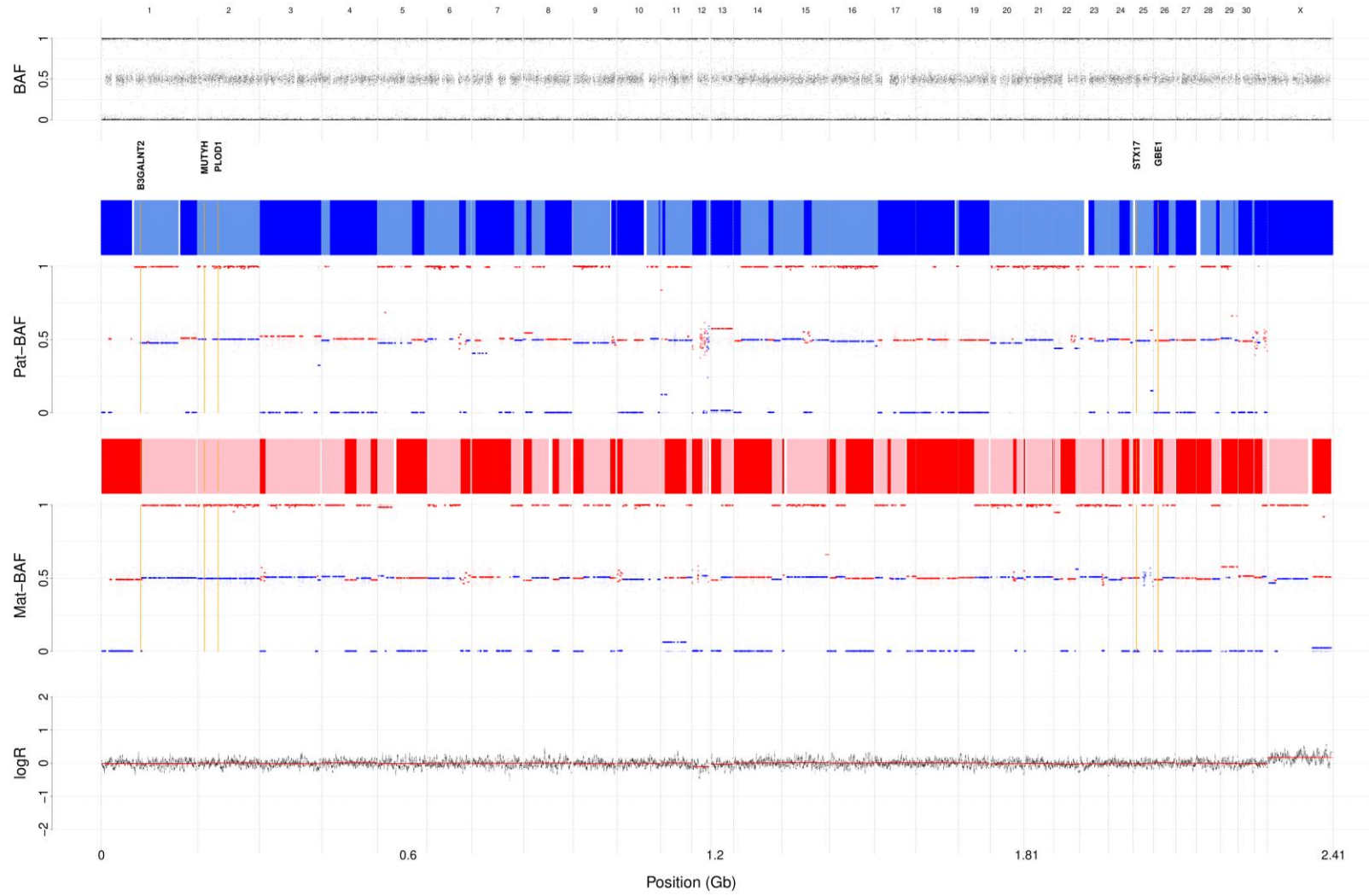
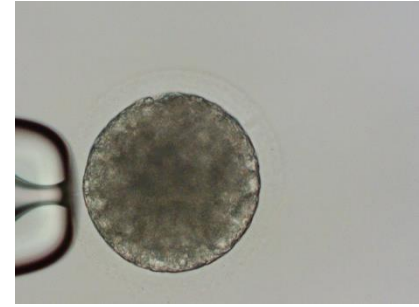
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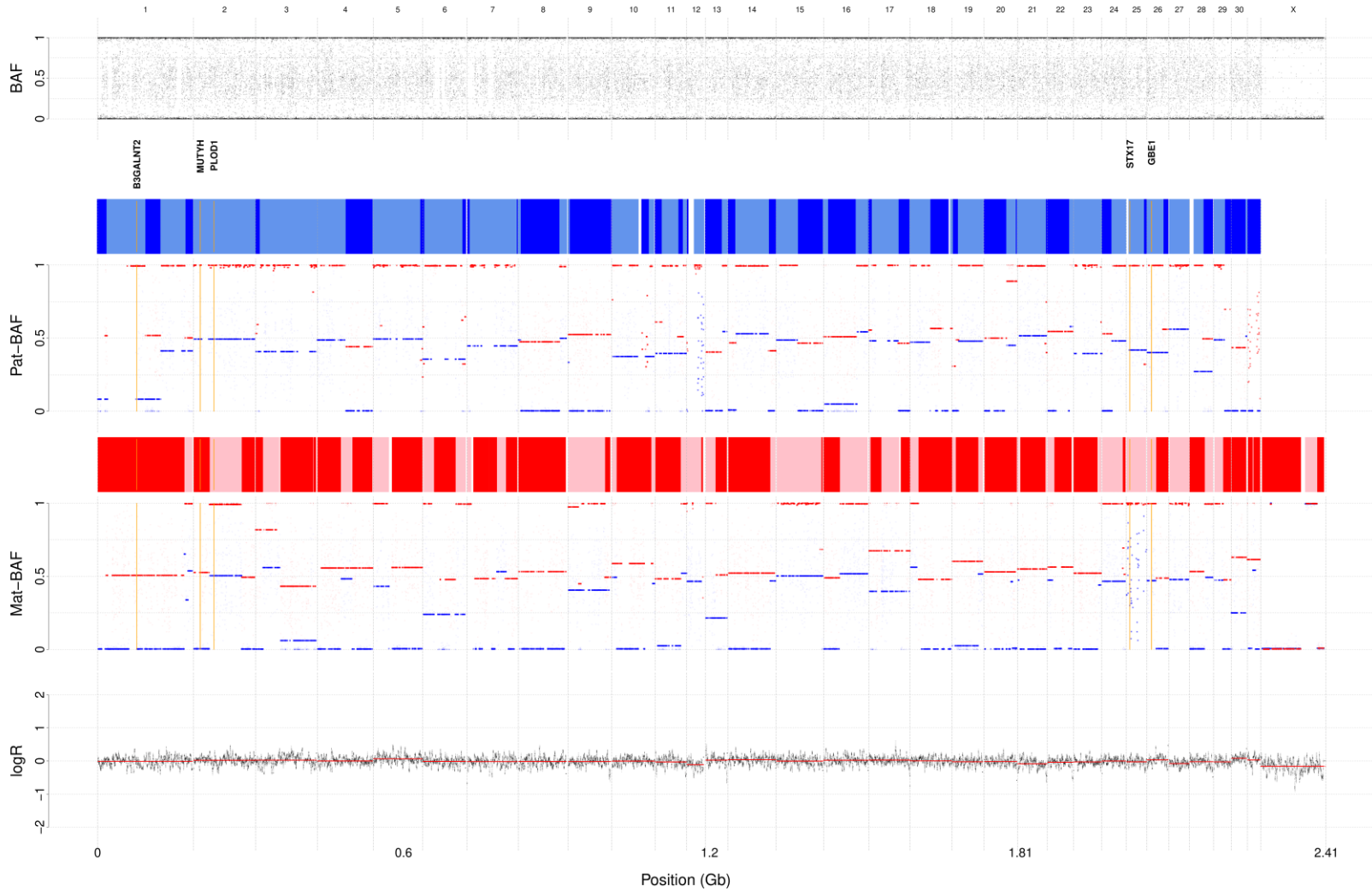
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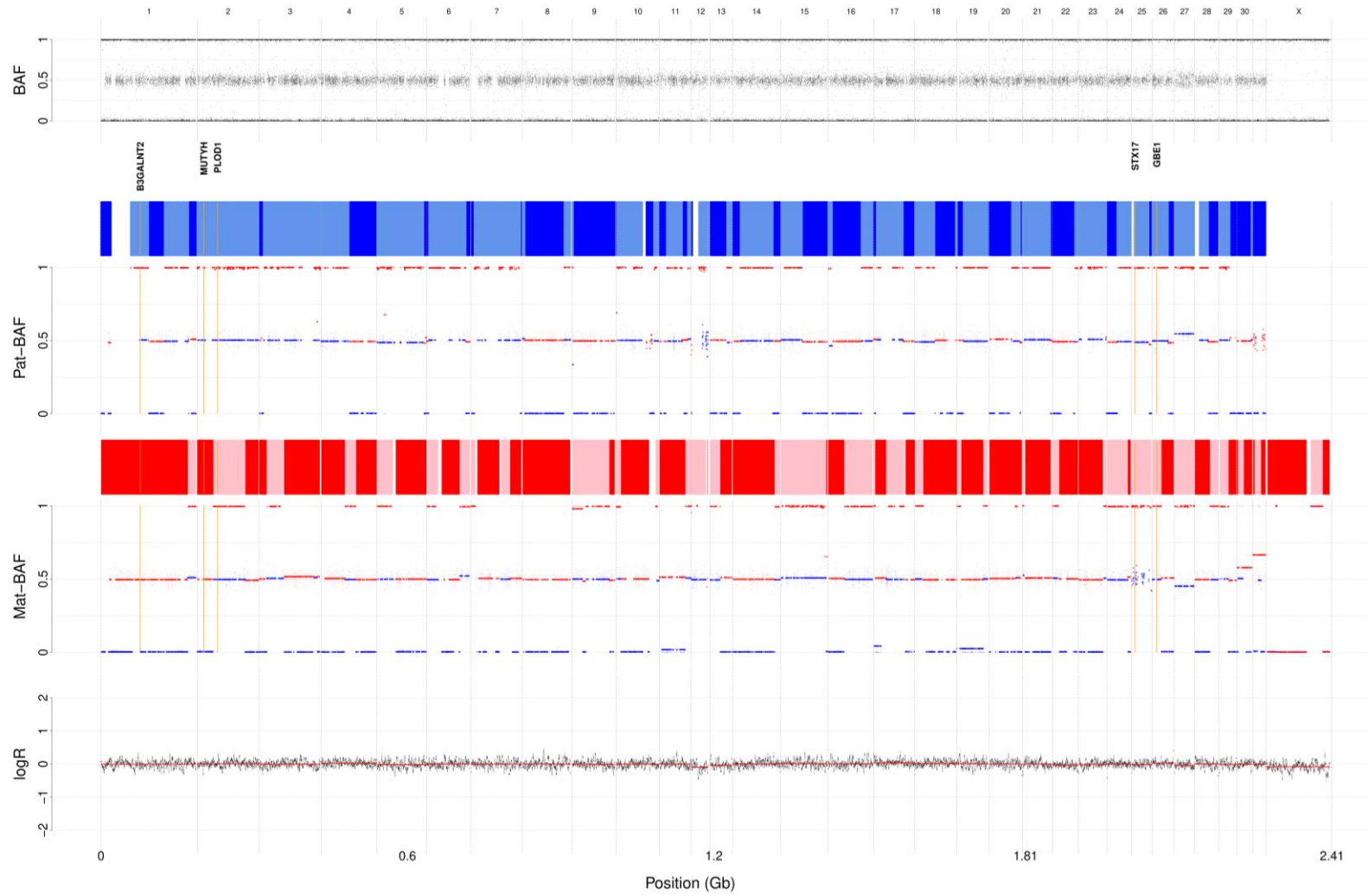
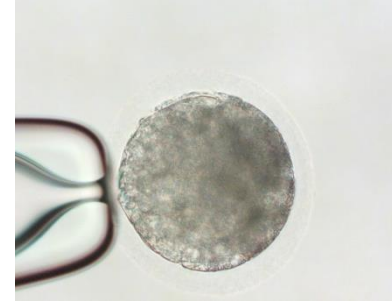
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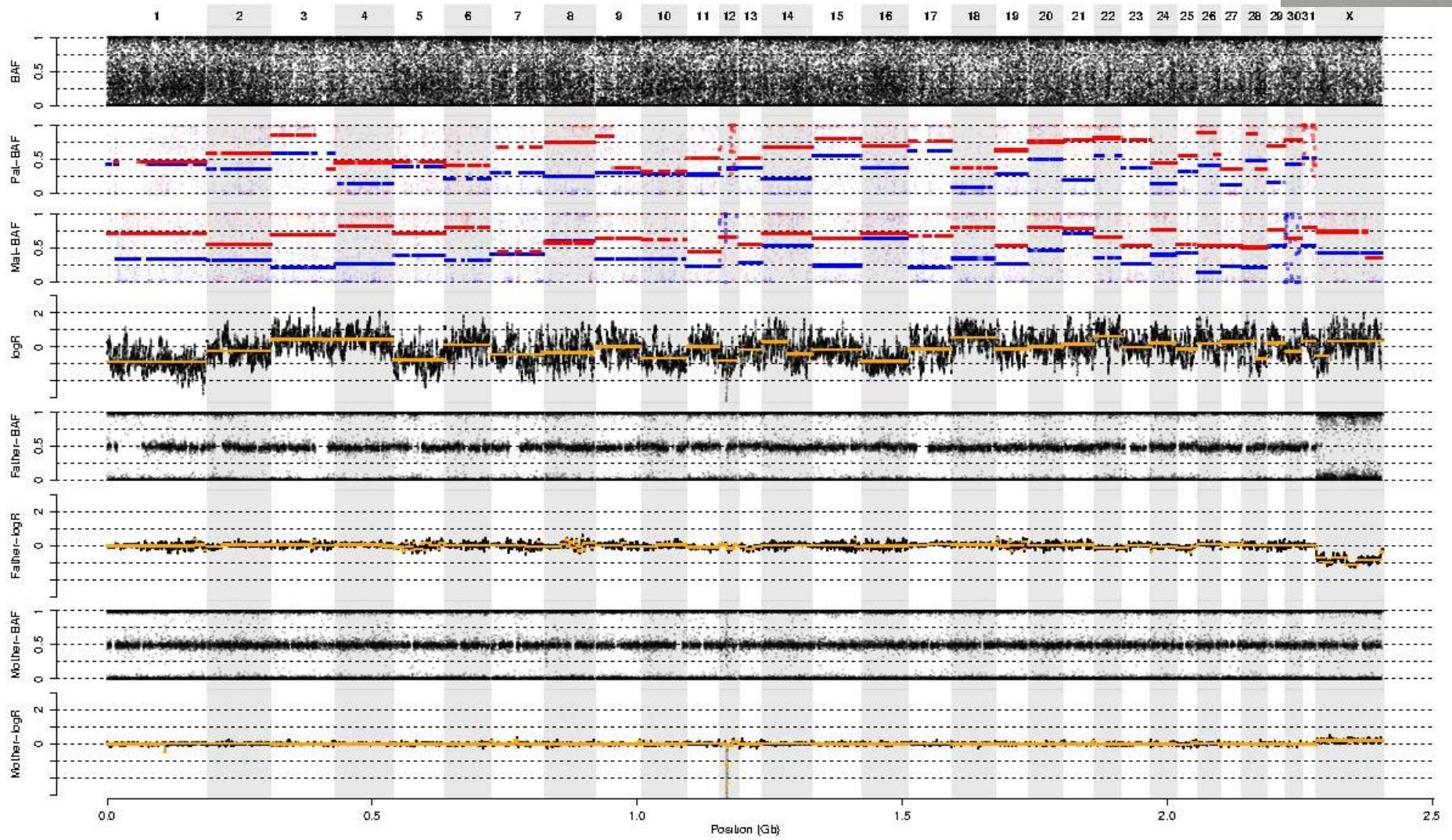
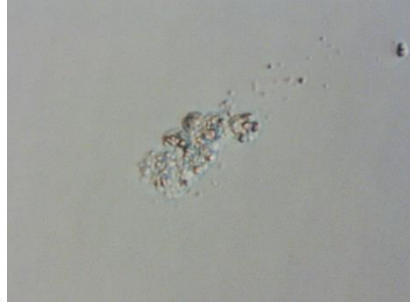
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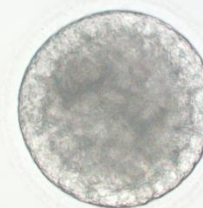


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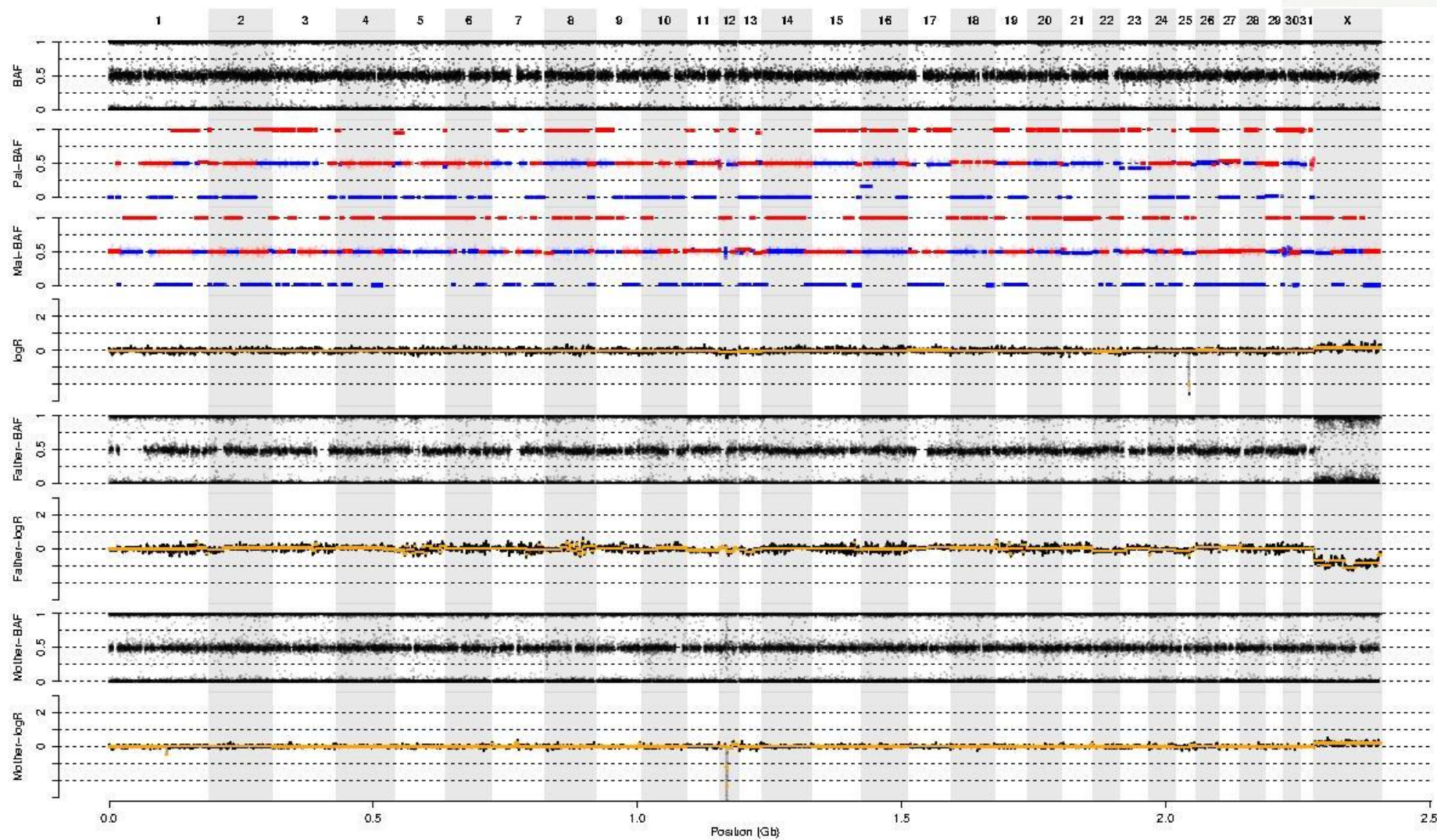


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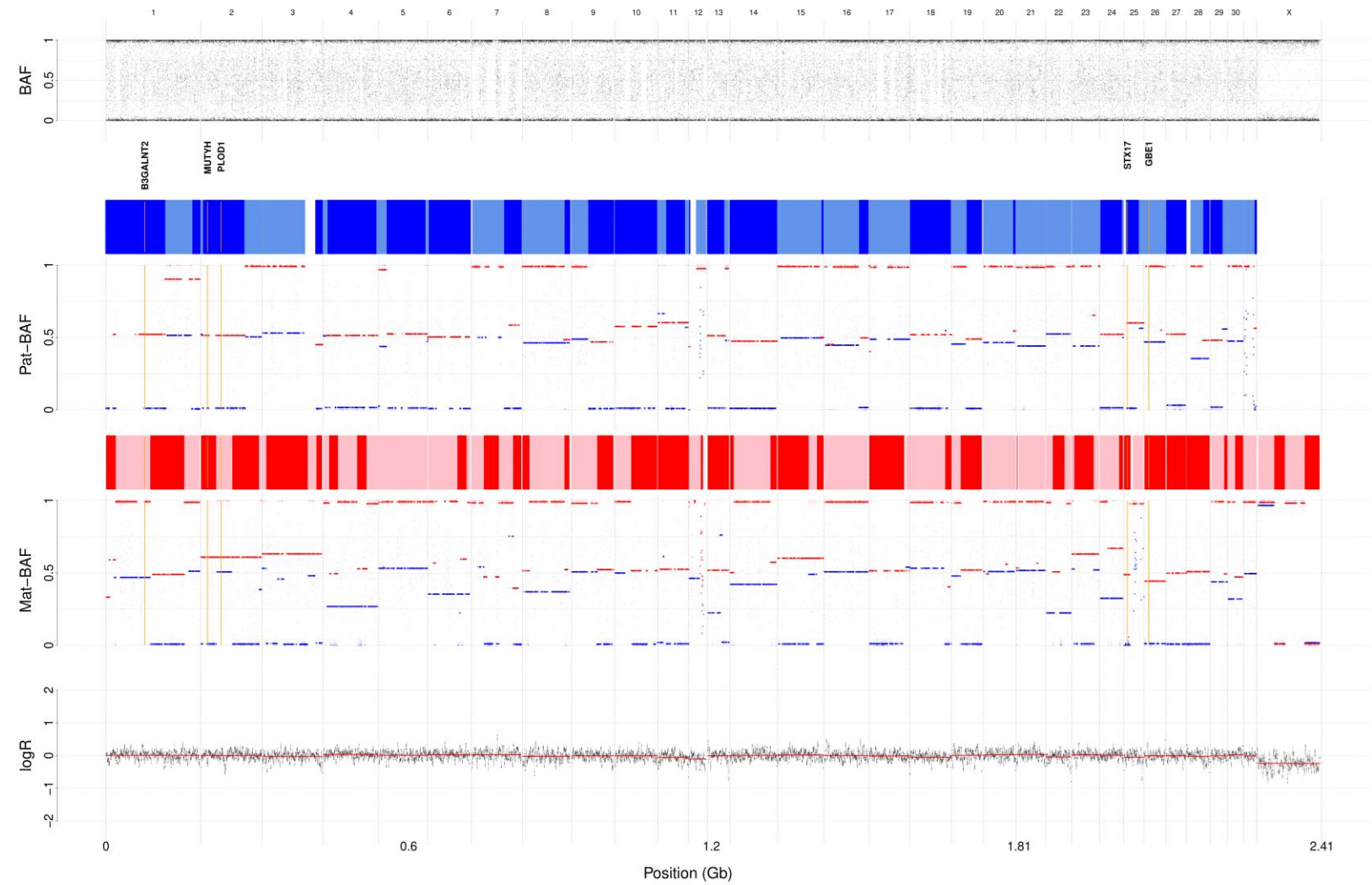
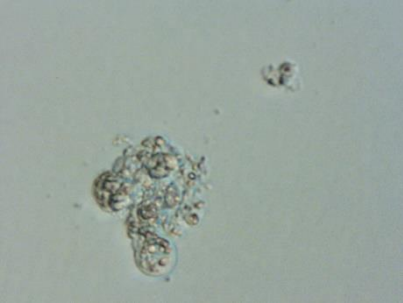




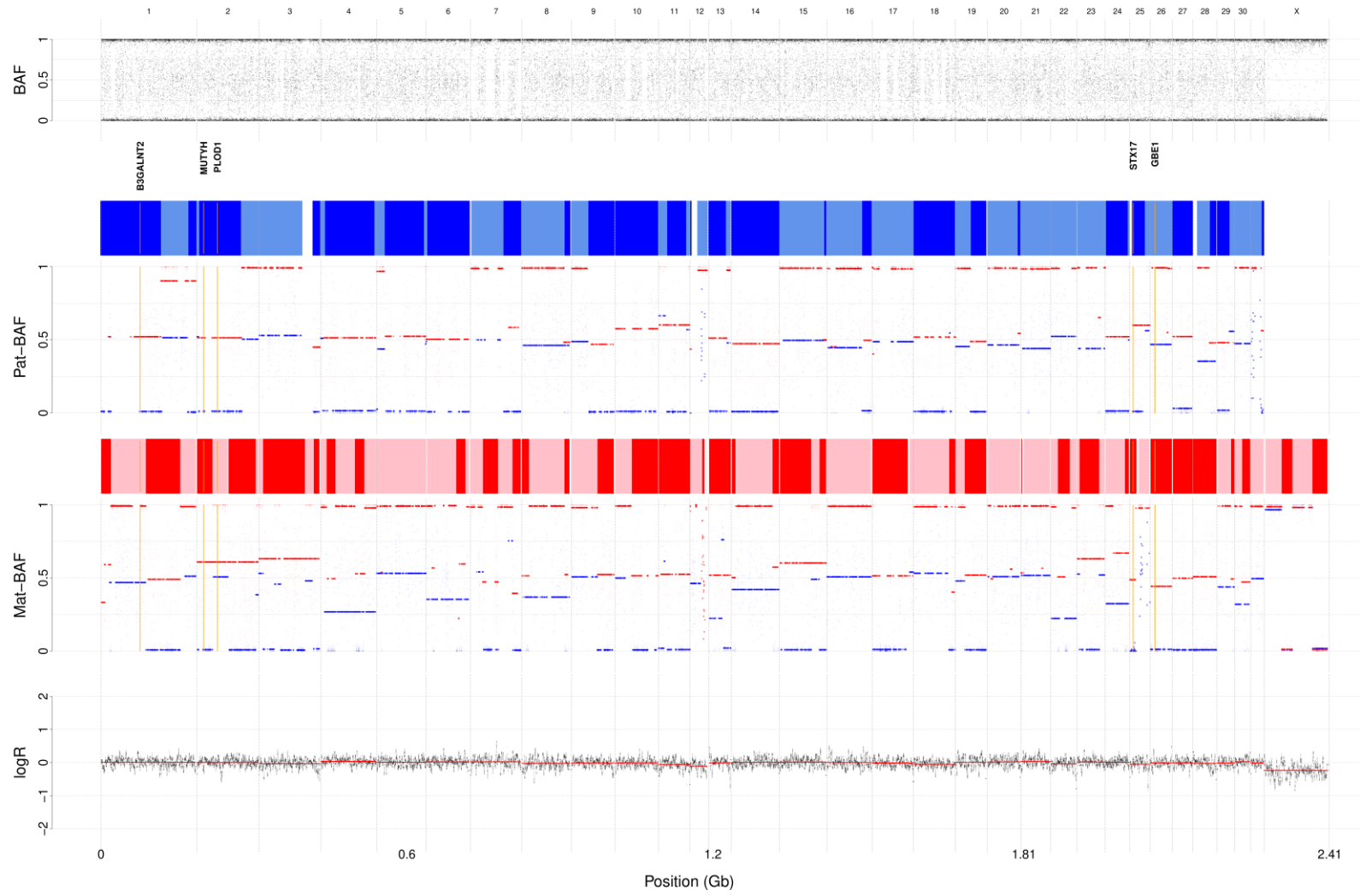
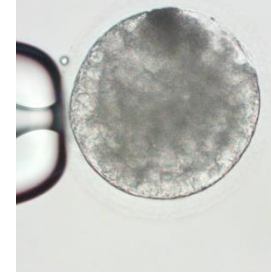
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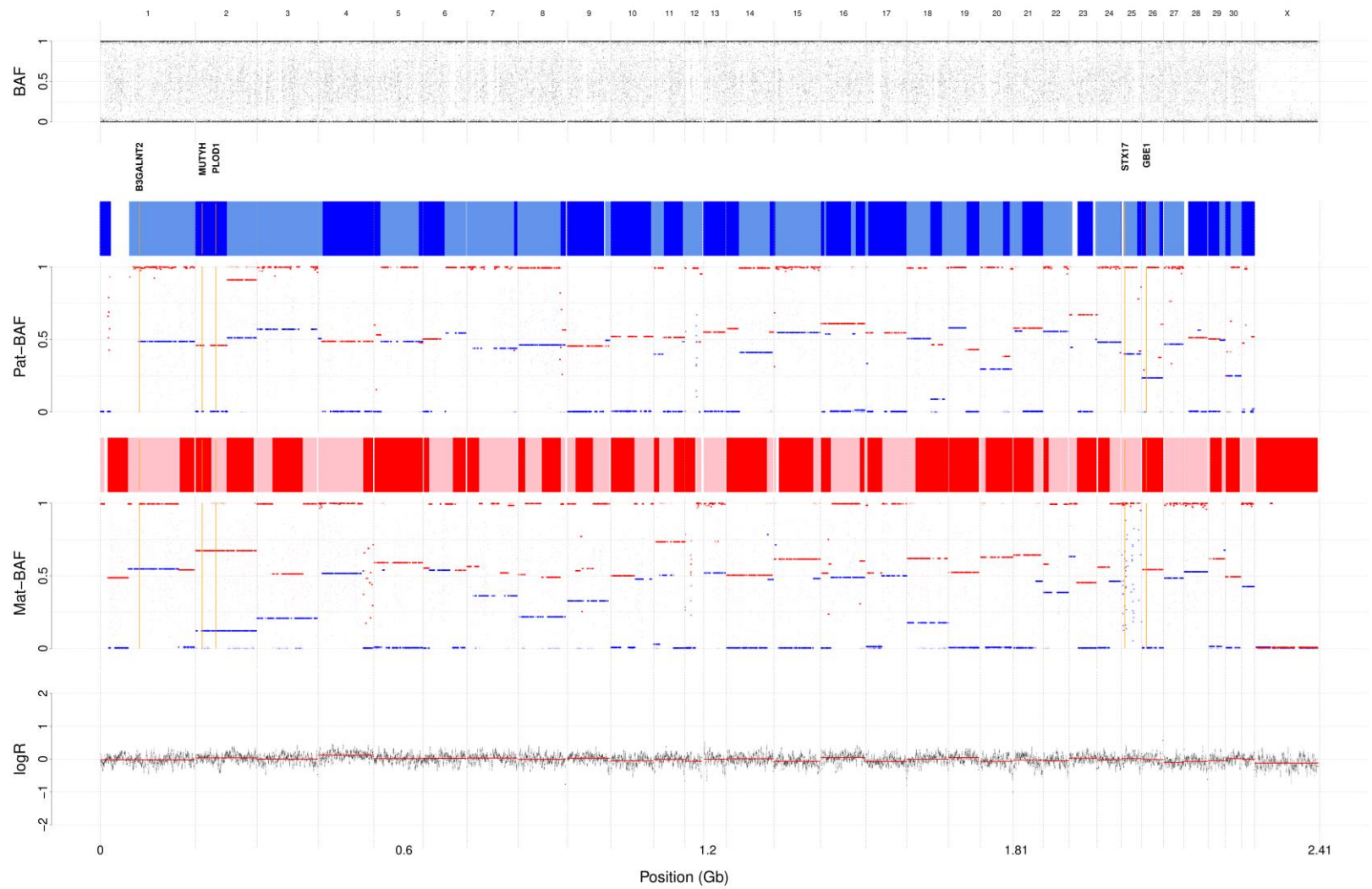
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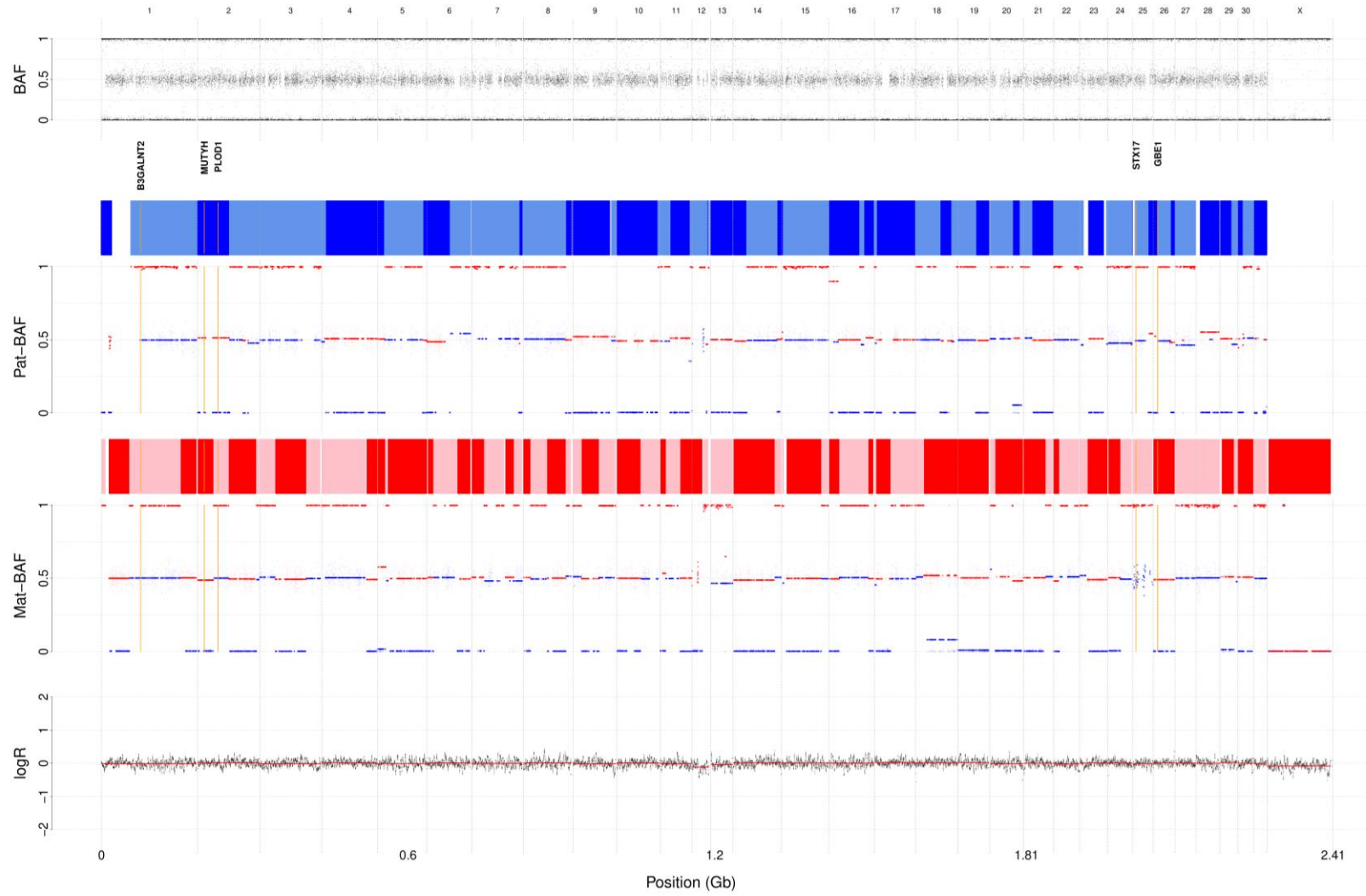
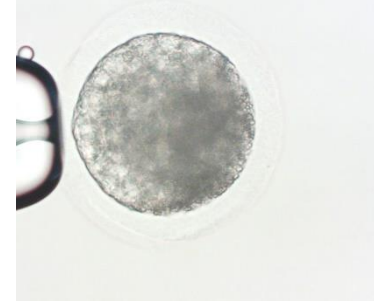
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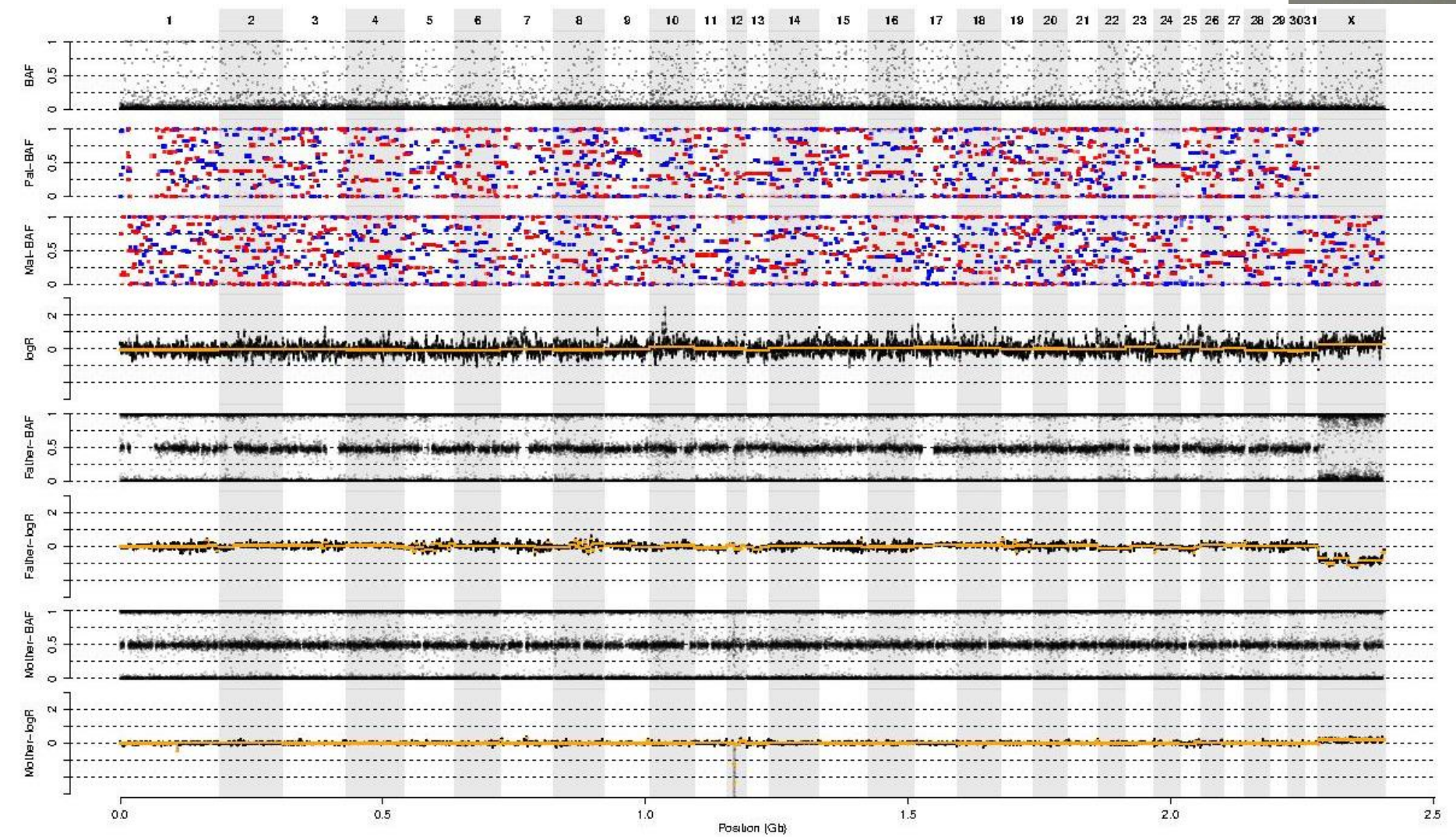


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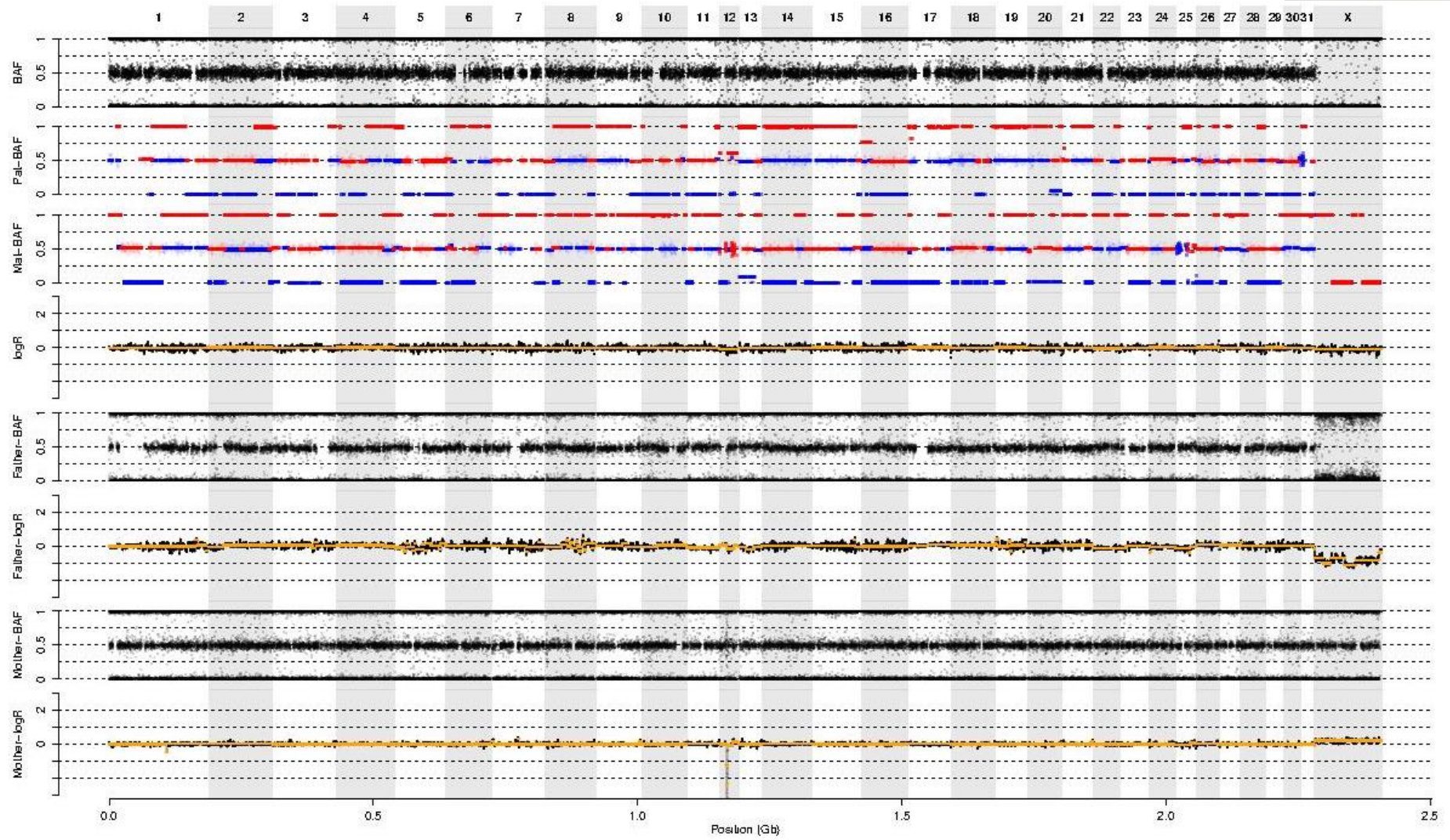
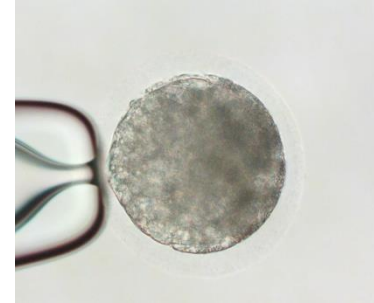


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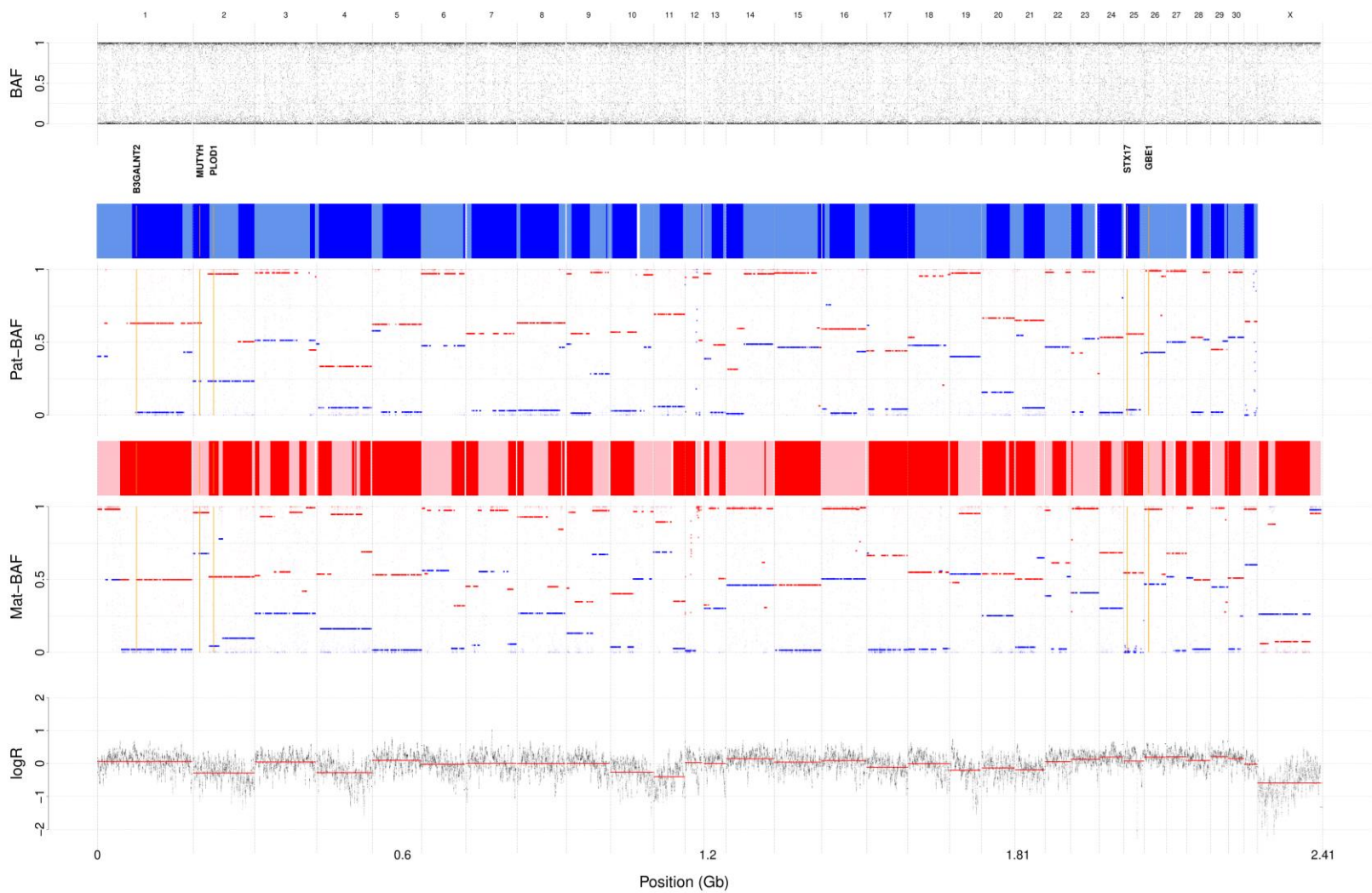




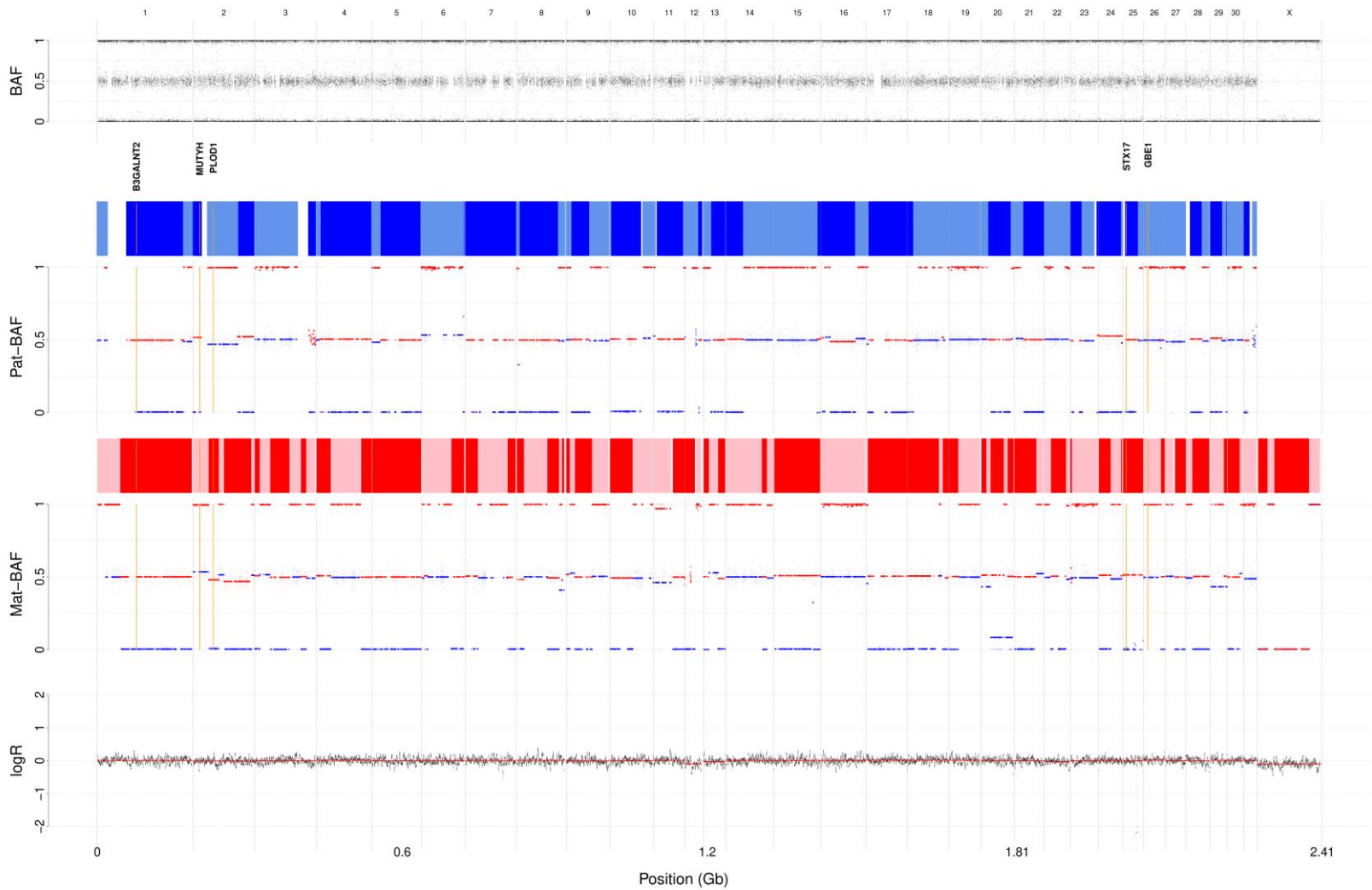
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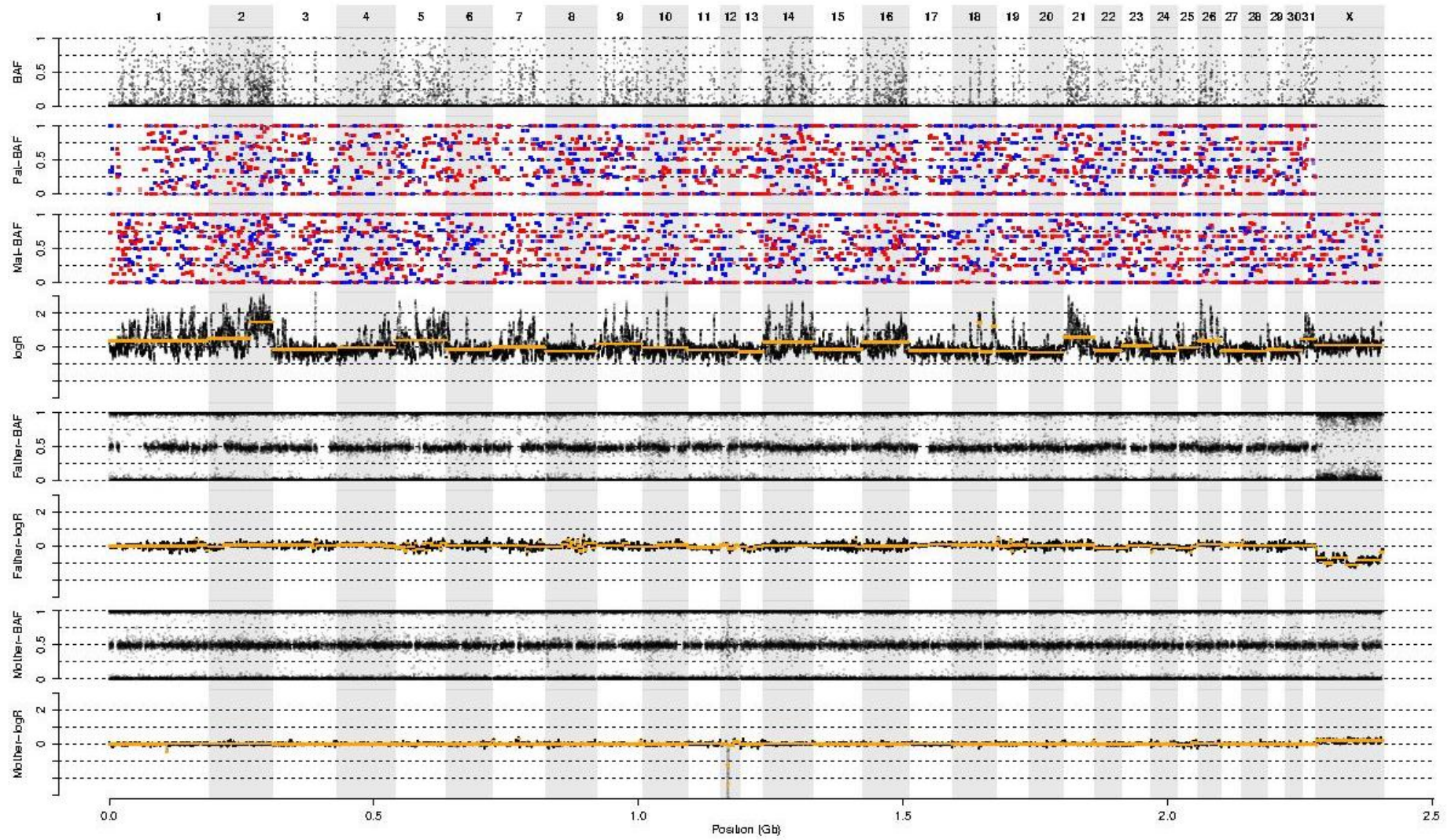
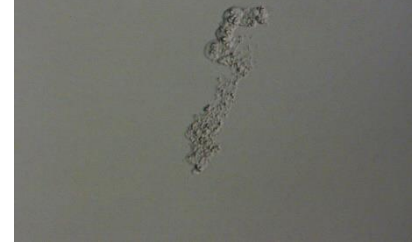
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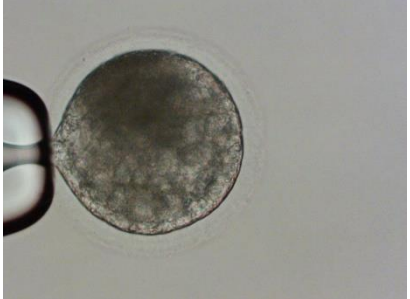


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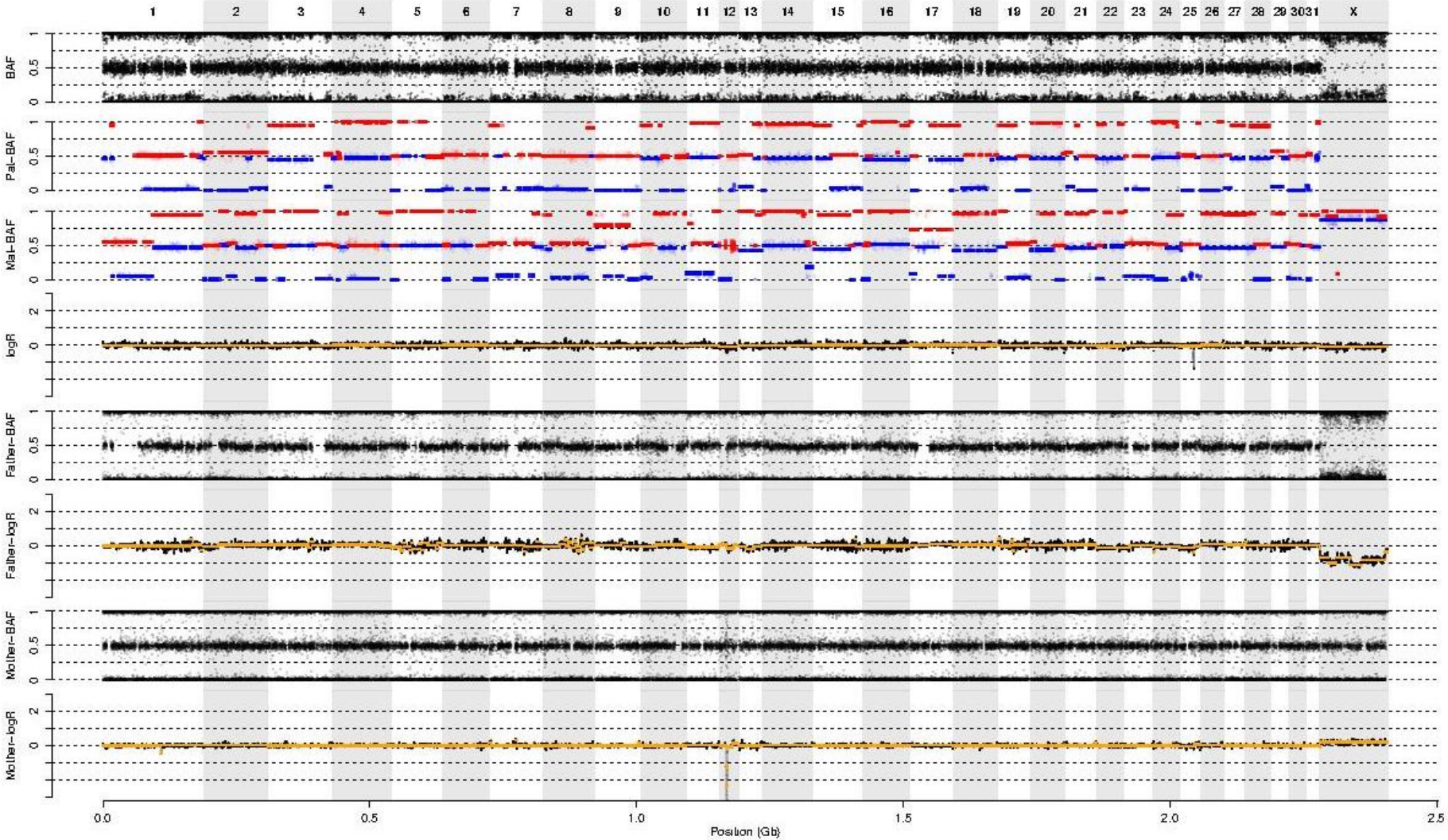


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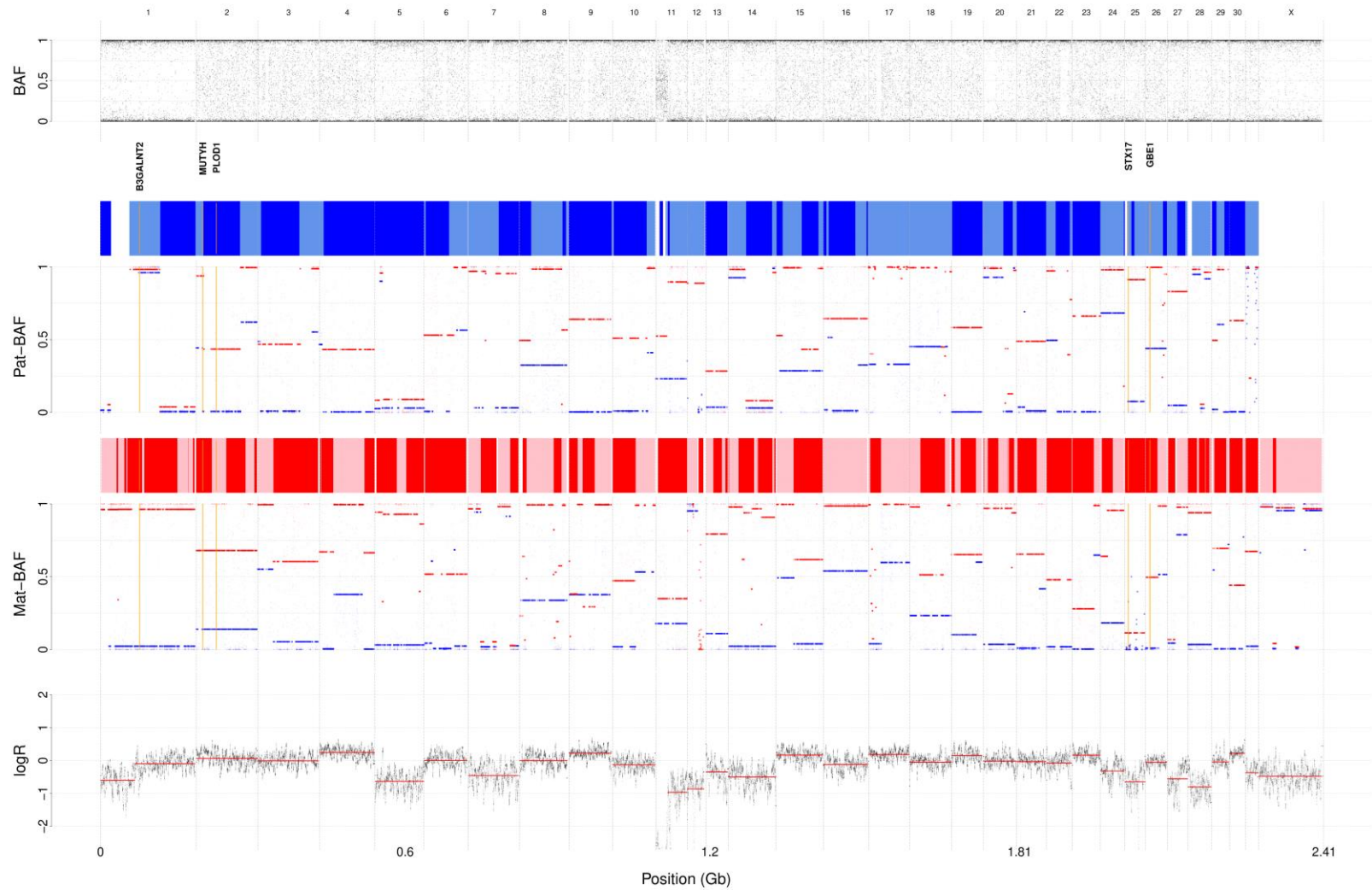




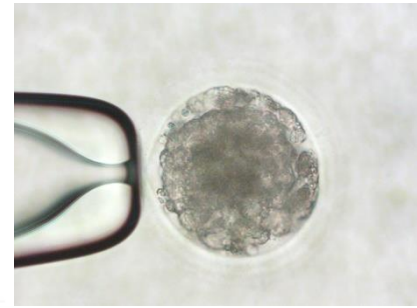
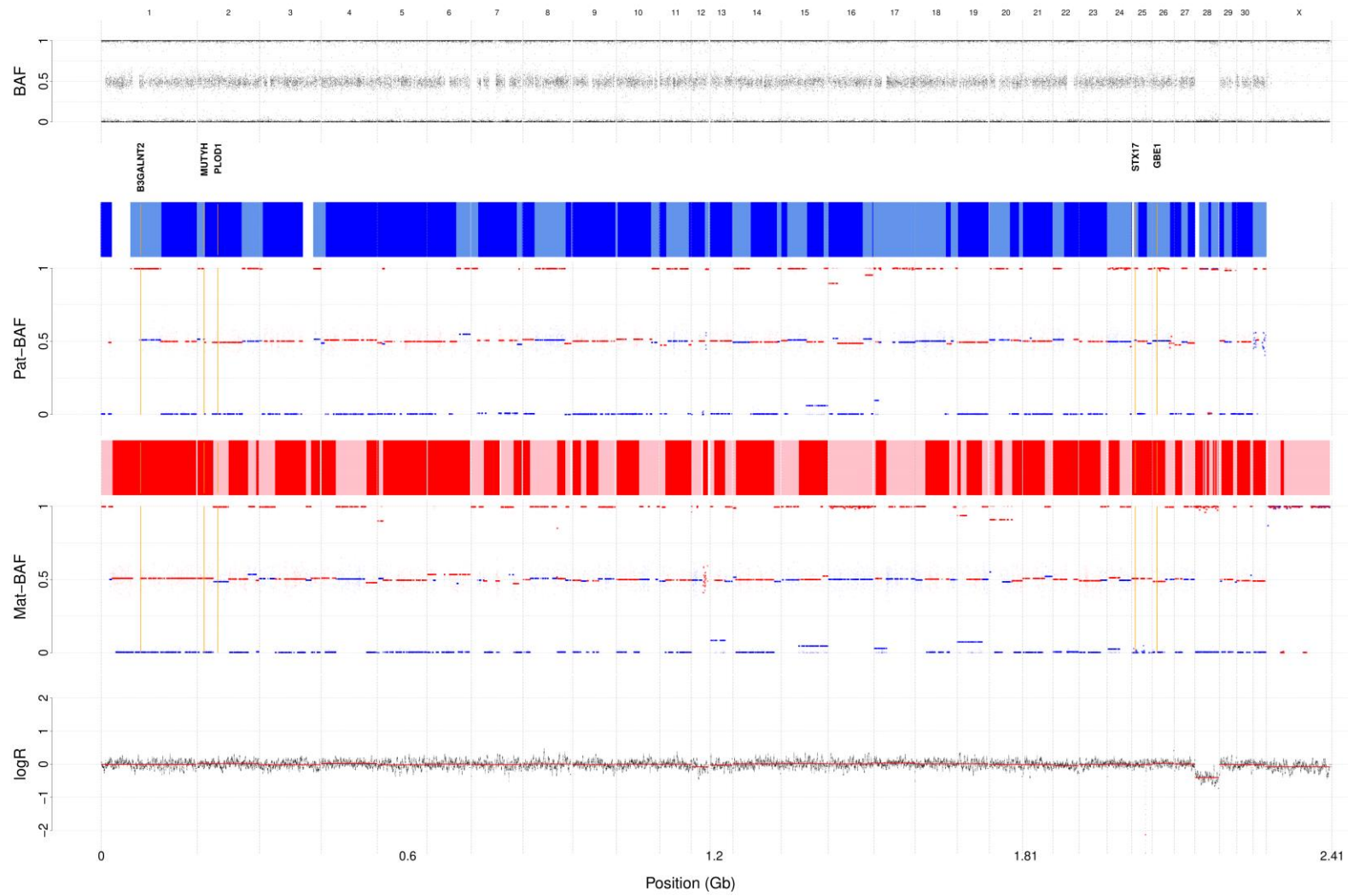
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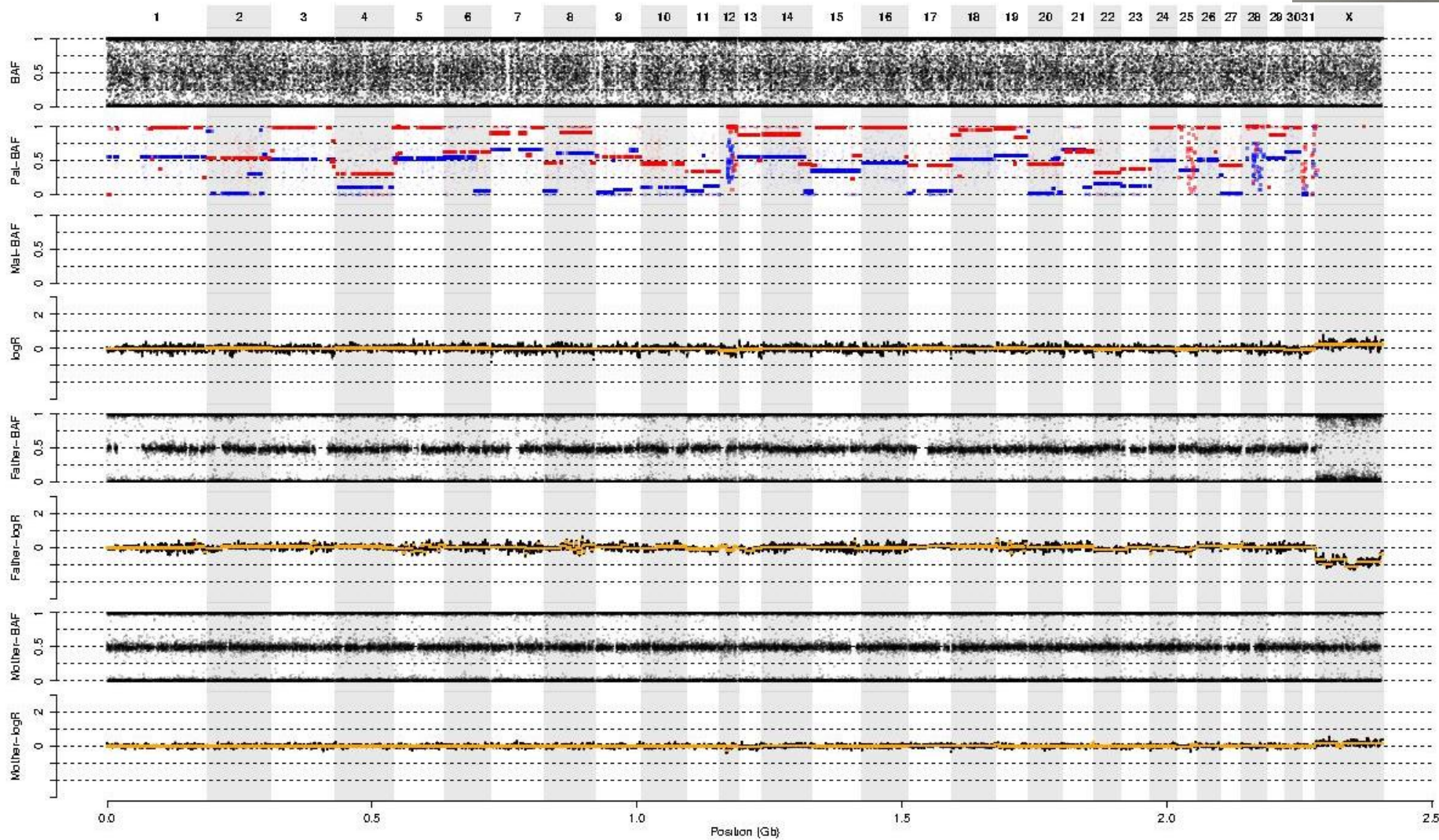
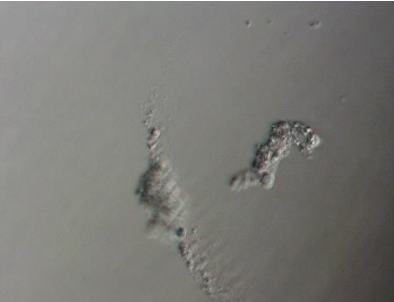
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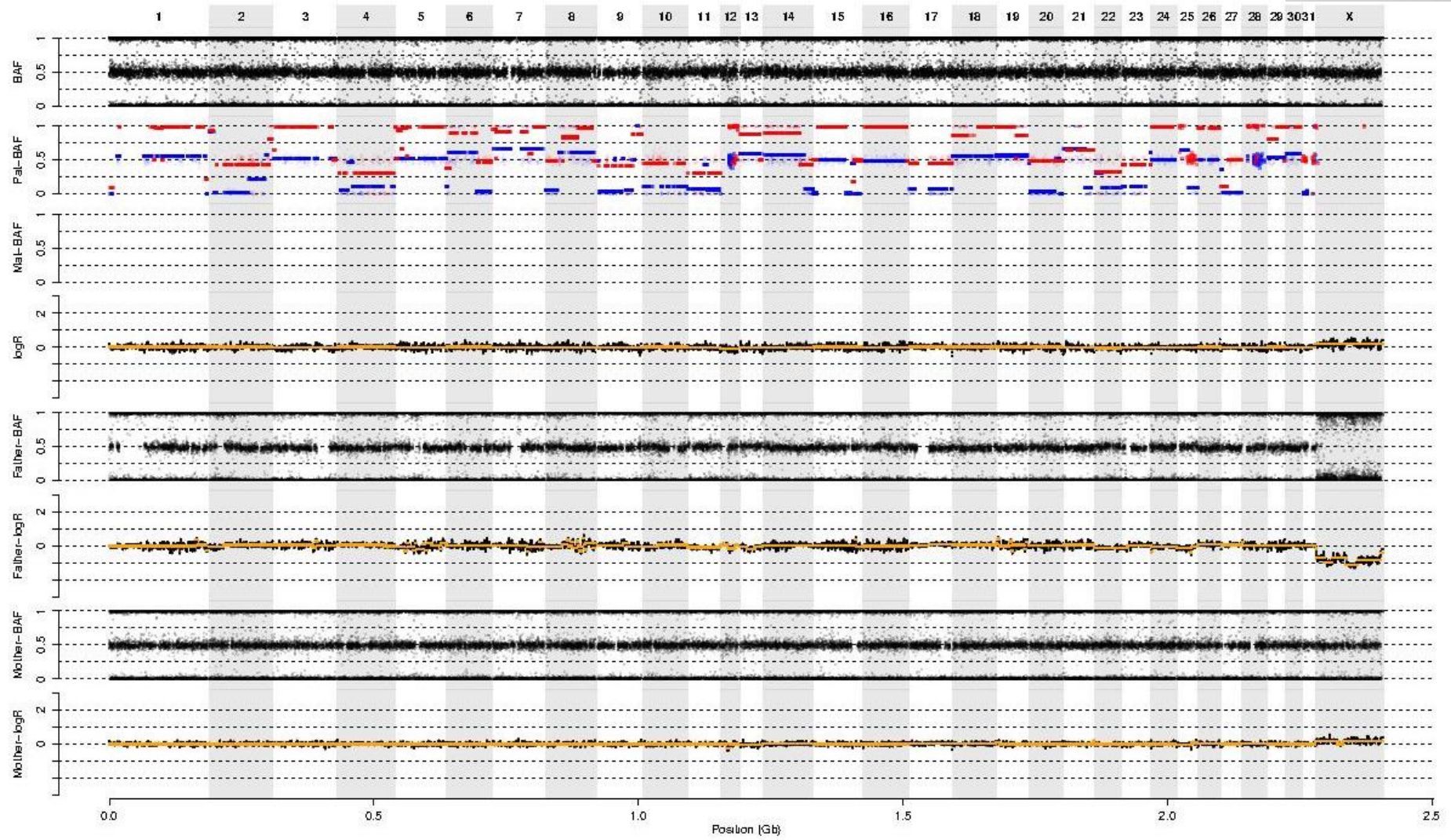
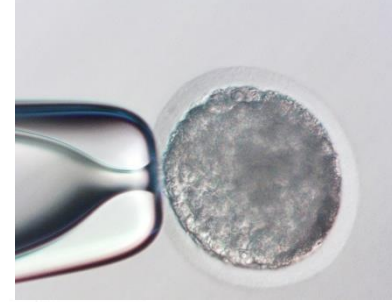
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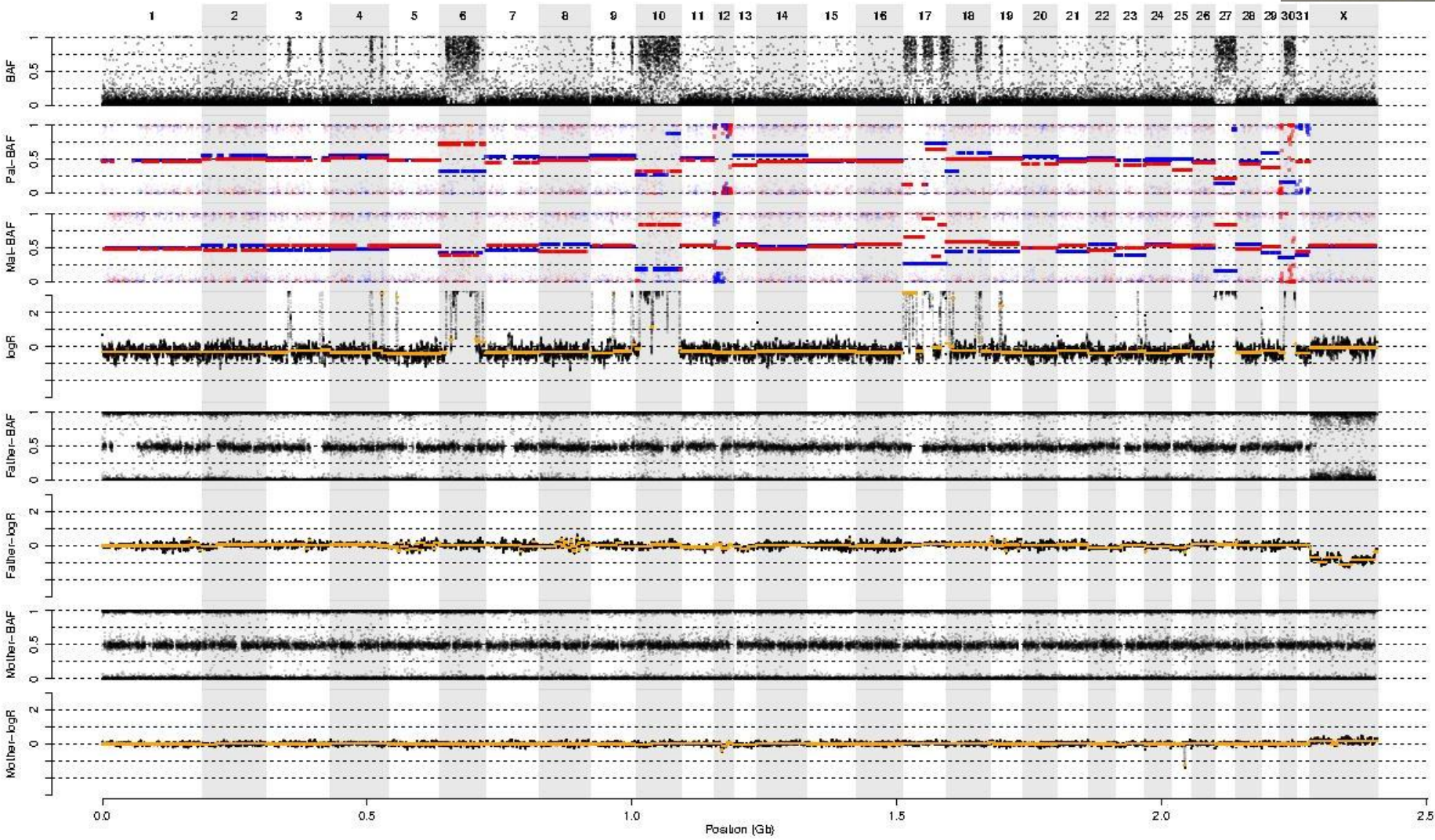
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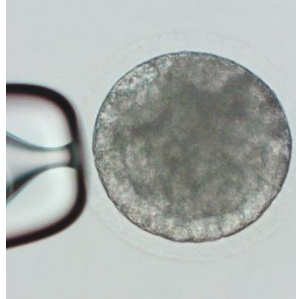


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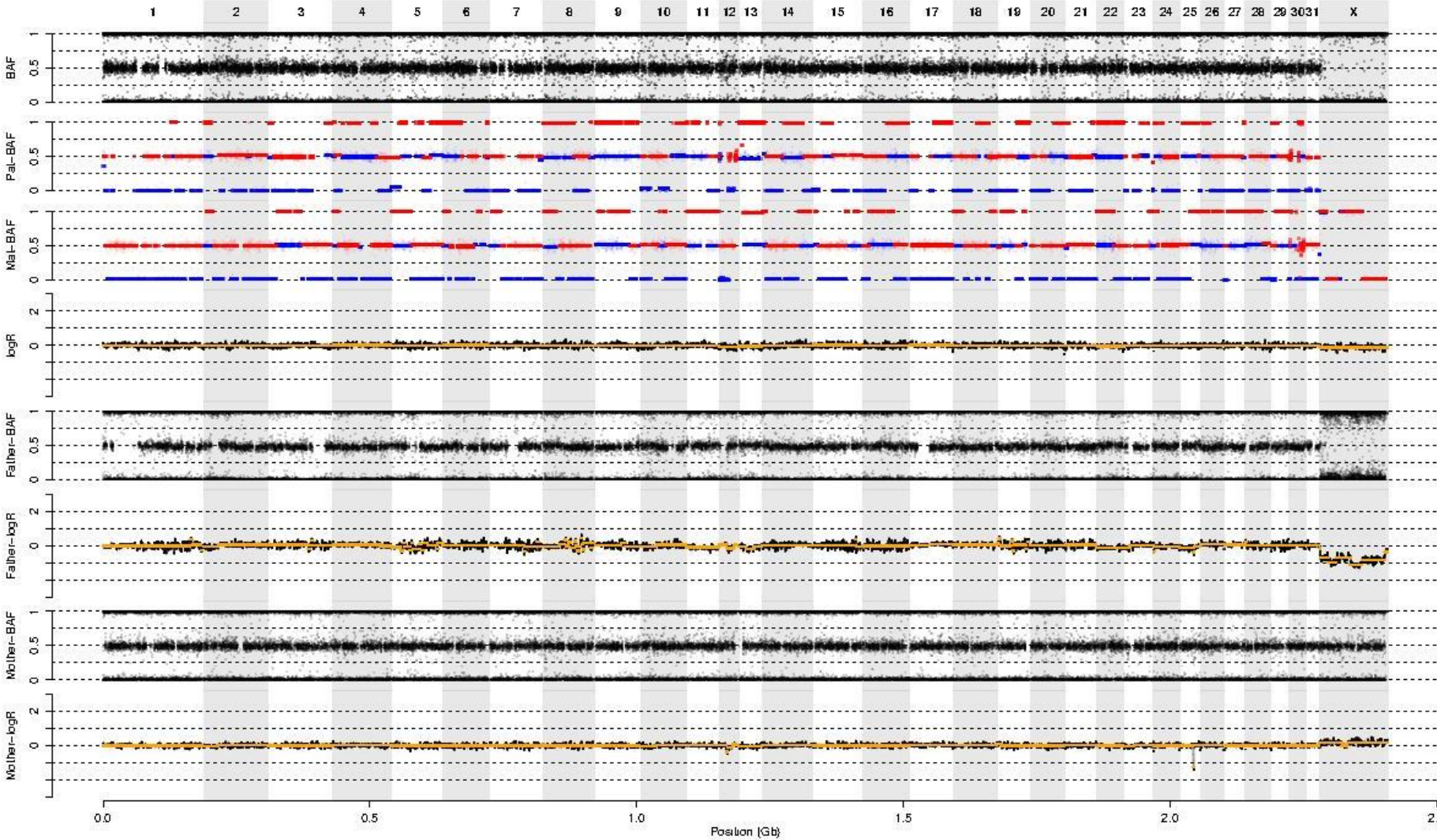


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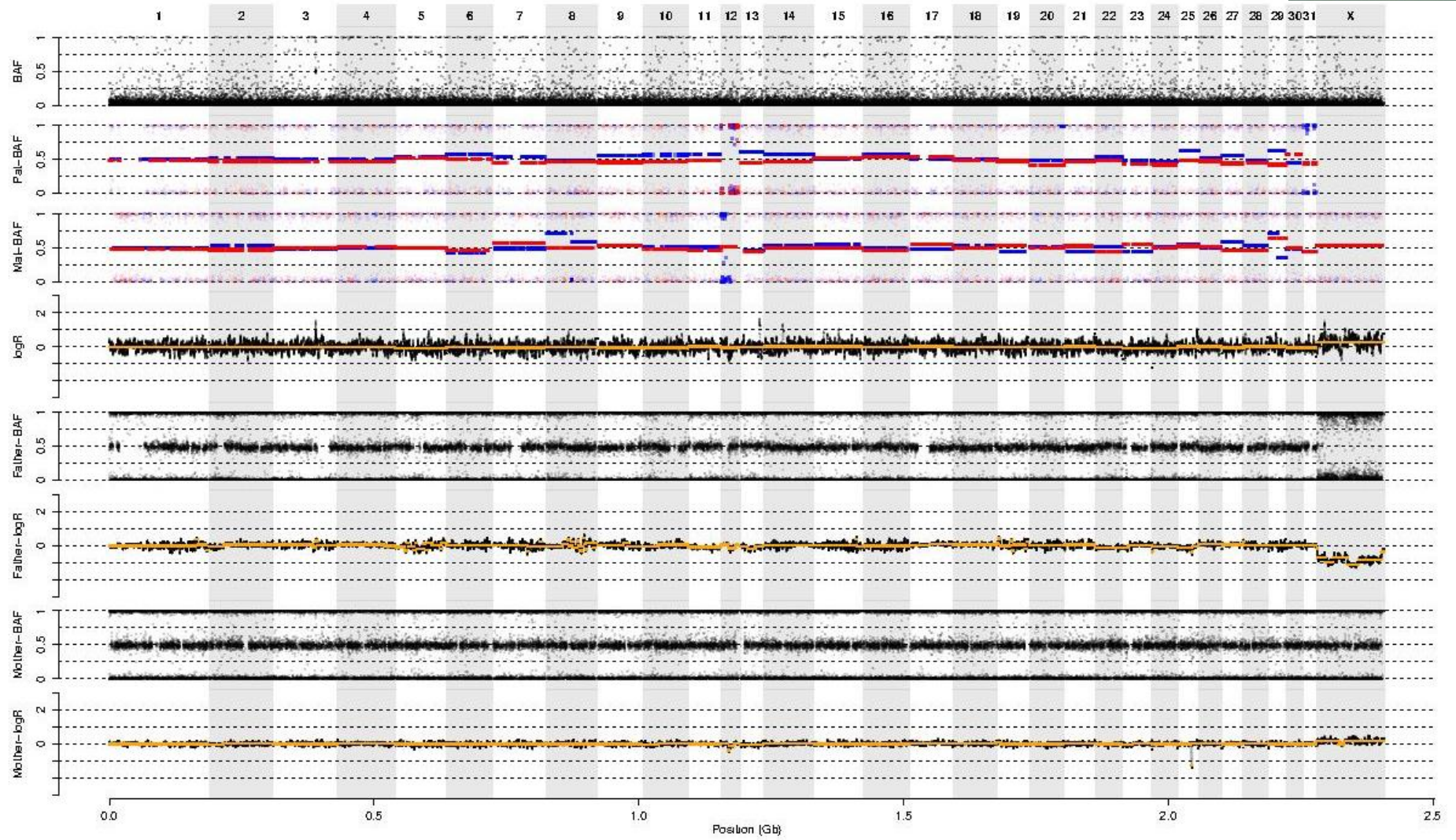
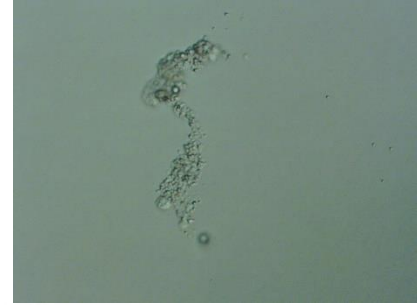




Mare04_Embryo01_Embryo



Mare04_Embryo02_Biopsy



Mare04_Embryo02_Embryo

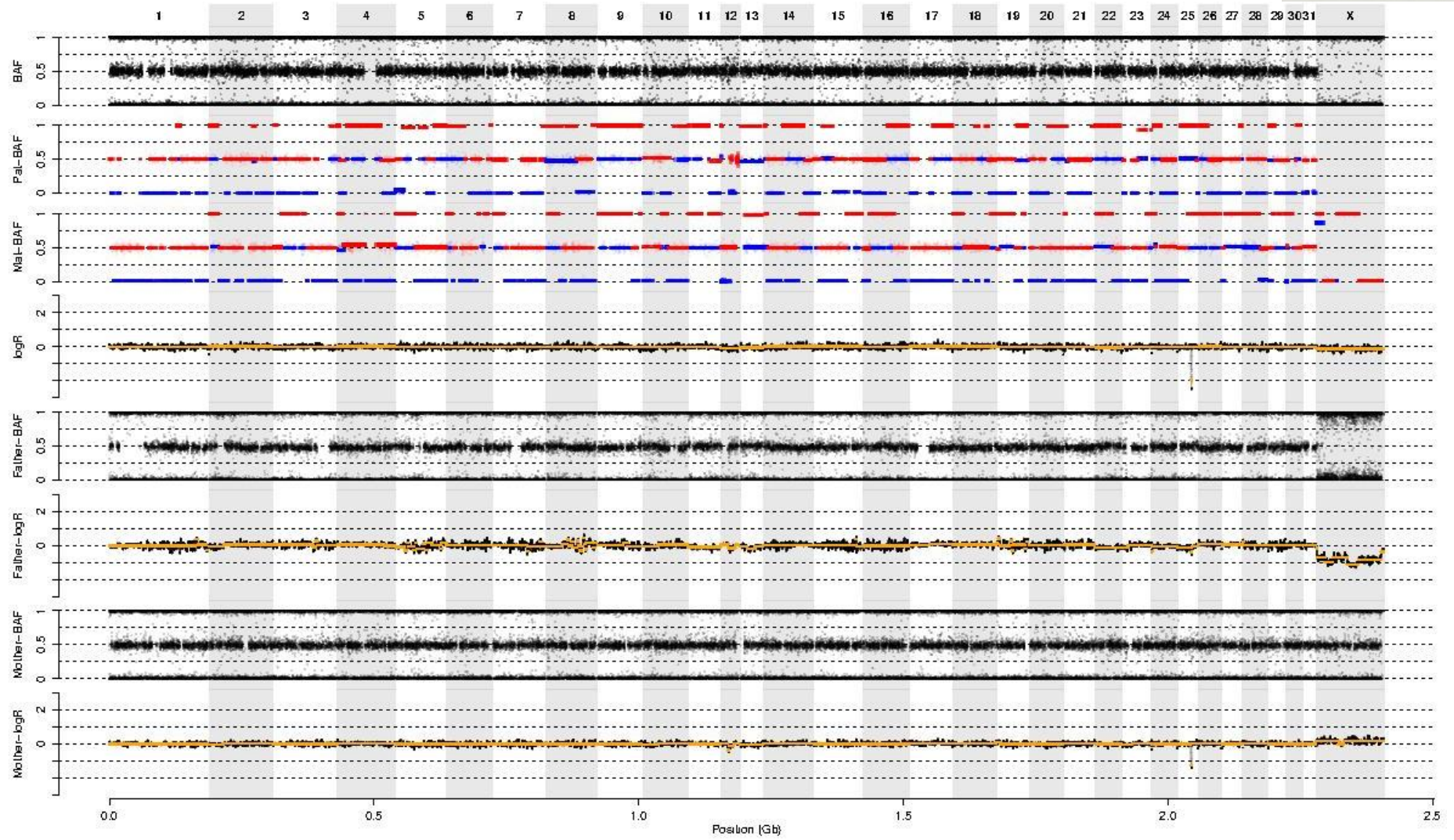
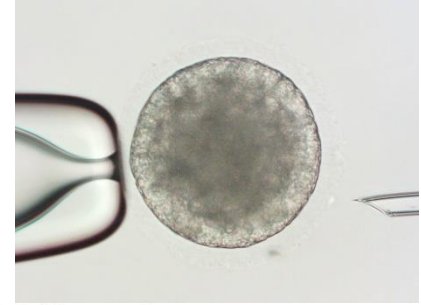
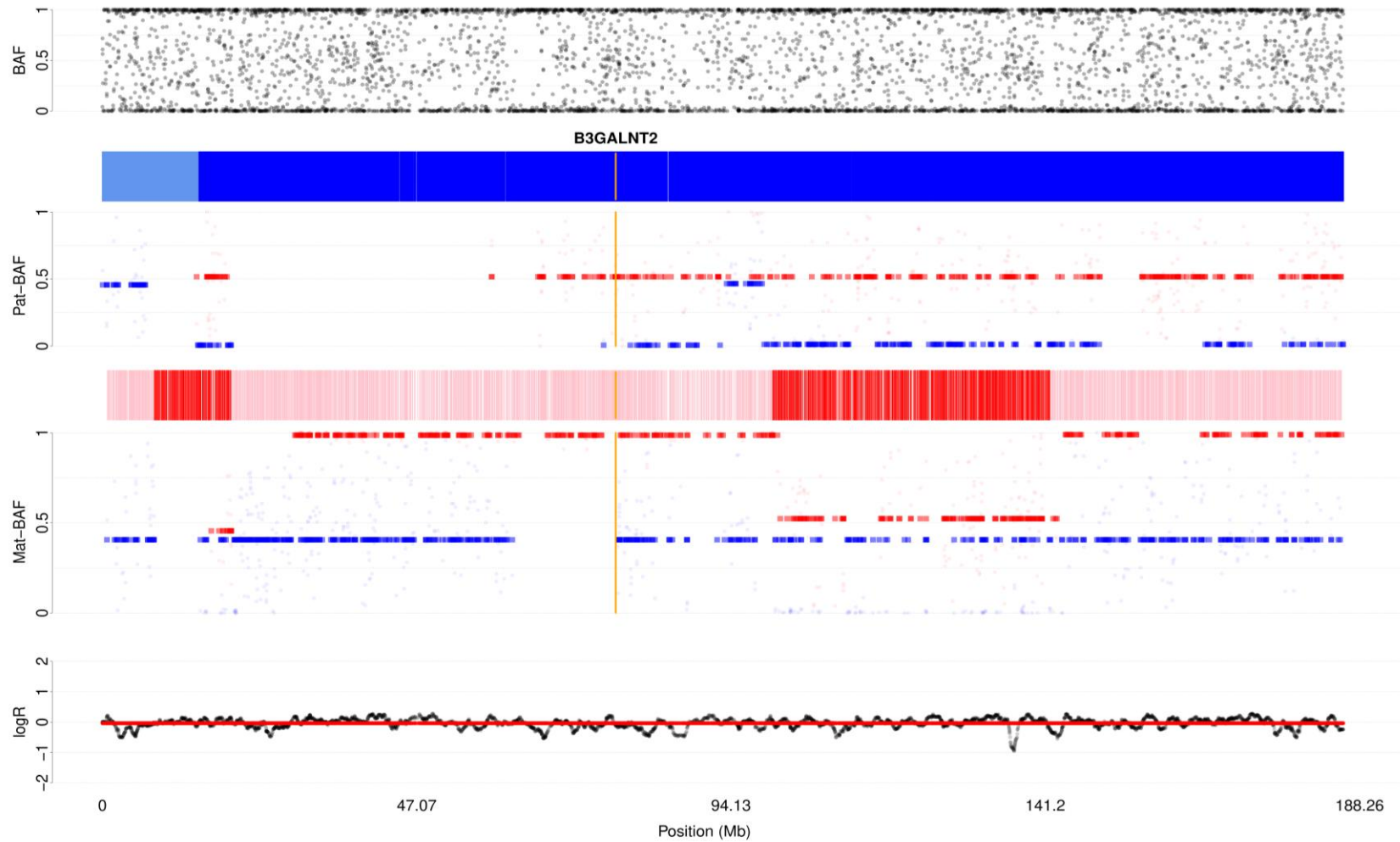
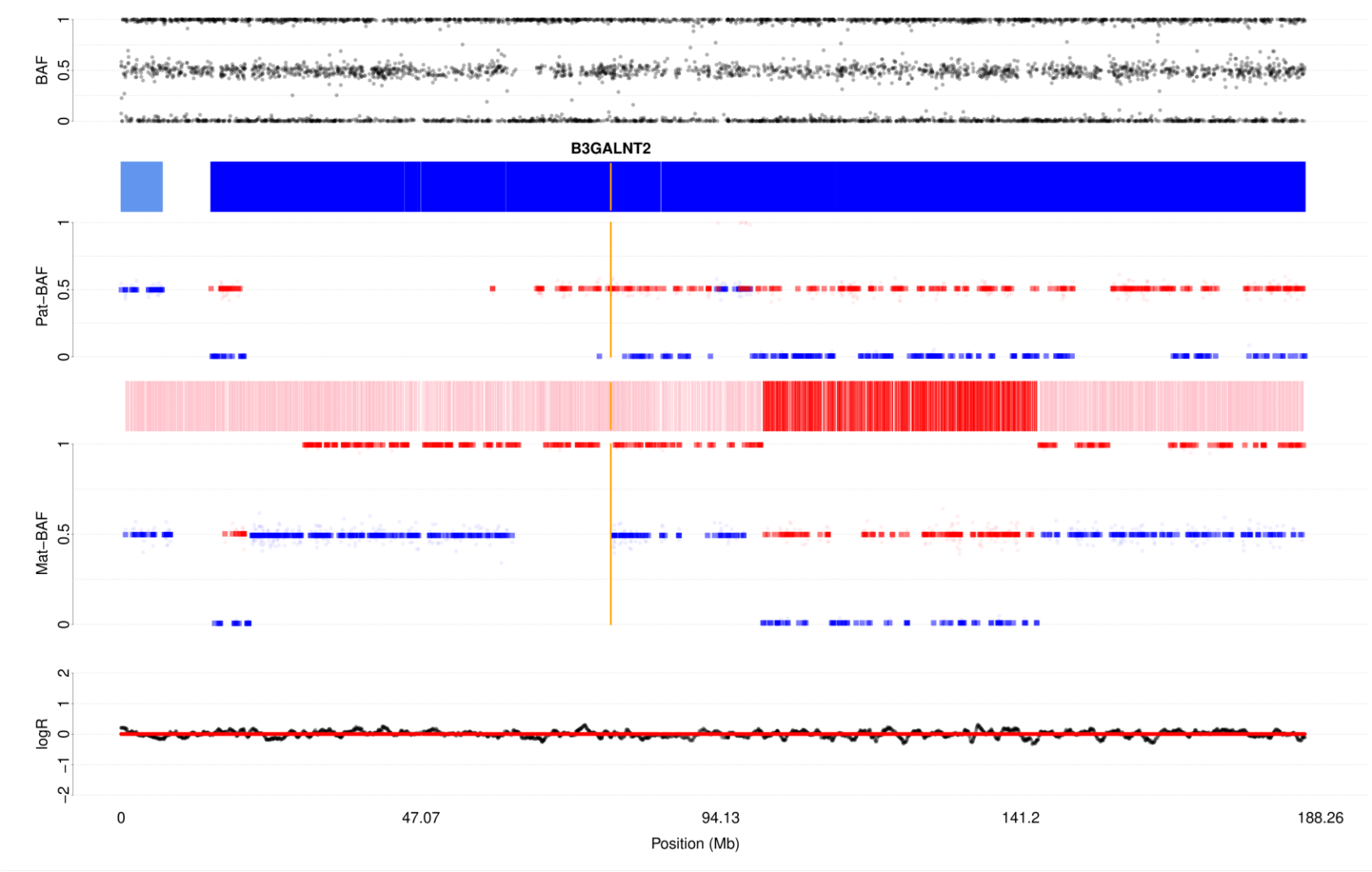


Figure 2. Haplarithm plots of chromosomes containing the five genes of interest of successfully analyzed trophoctoderm biopsies and corresponding biopsied blastocyst combinations.

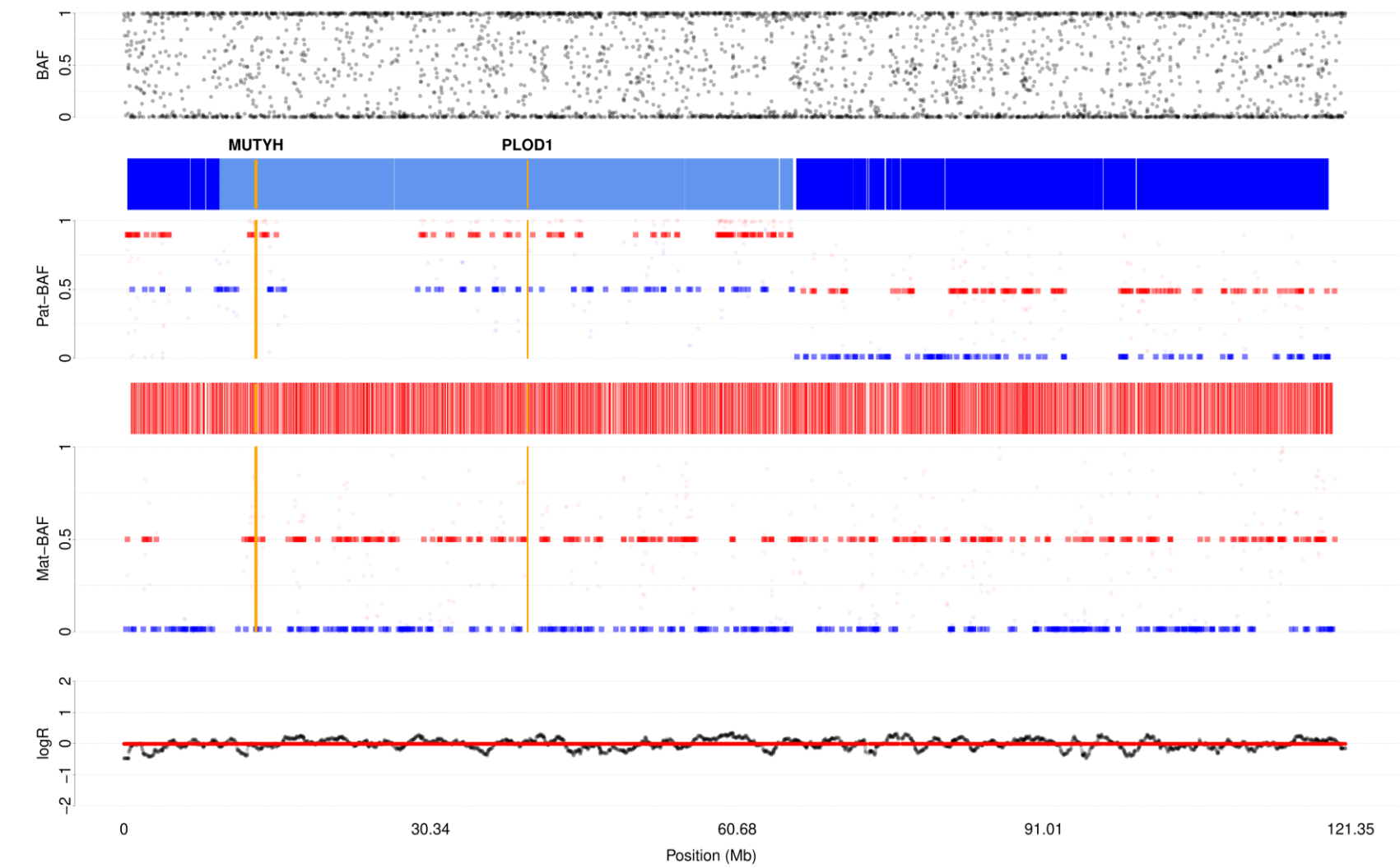
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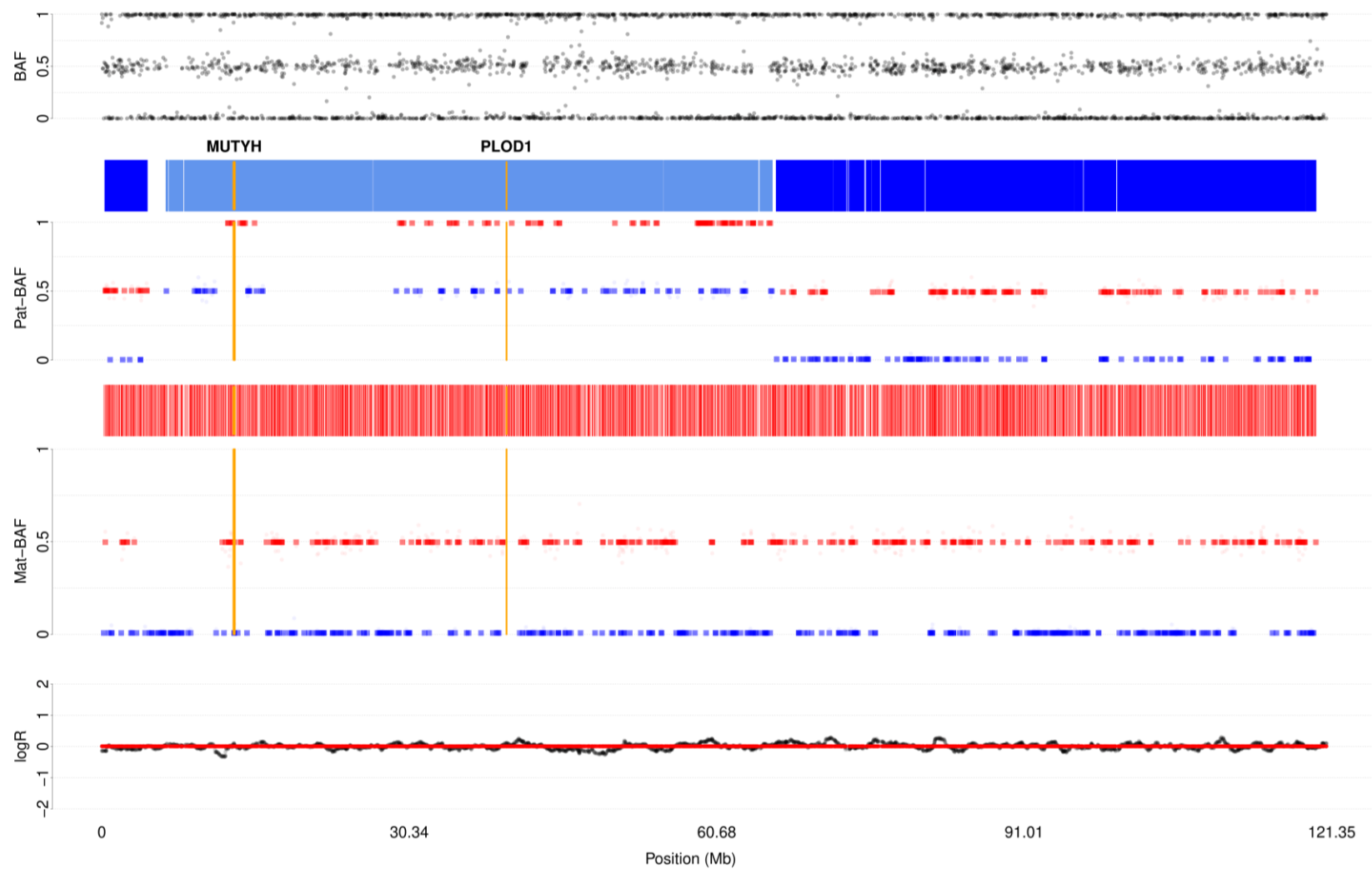
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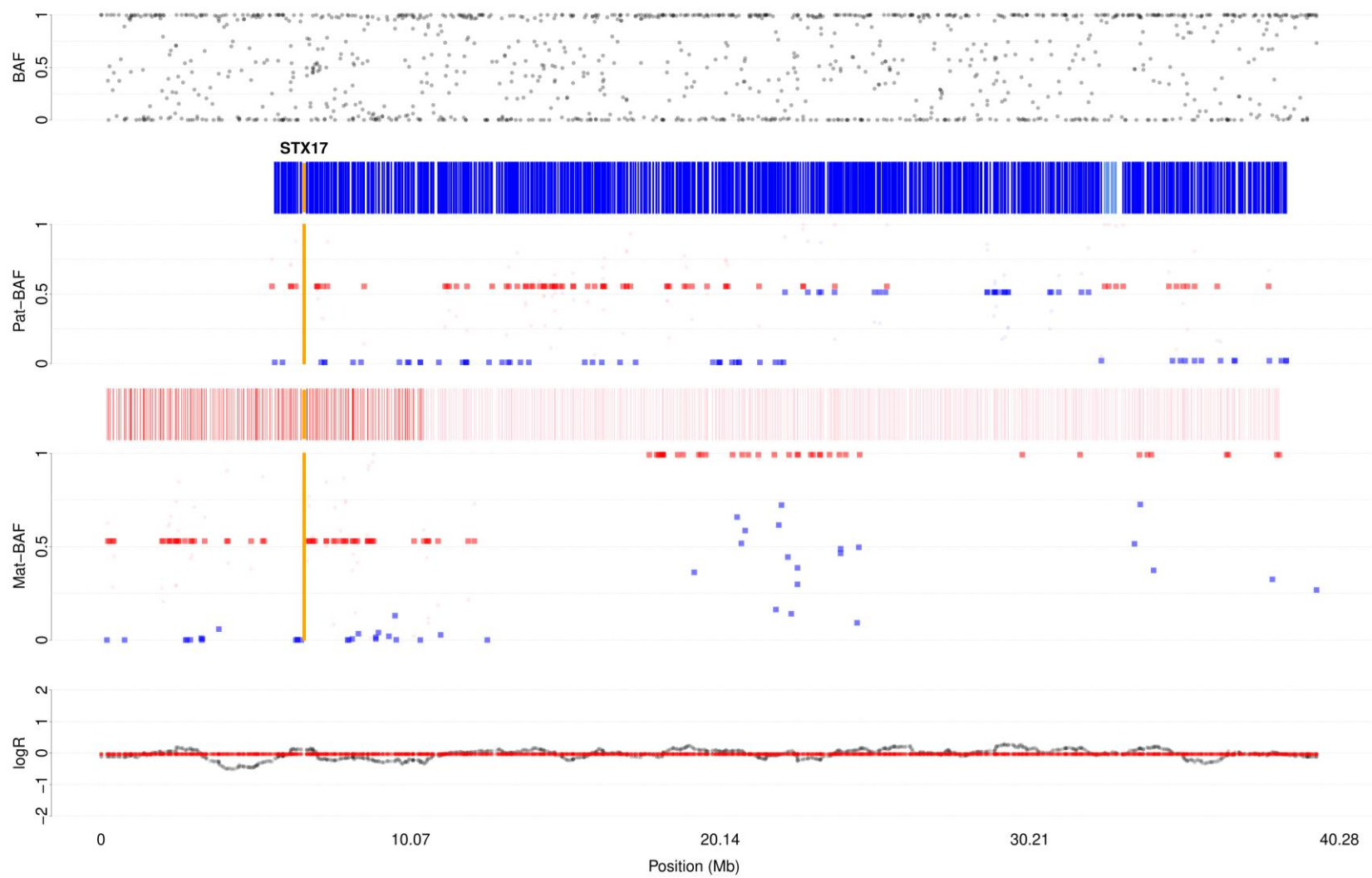
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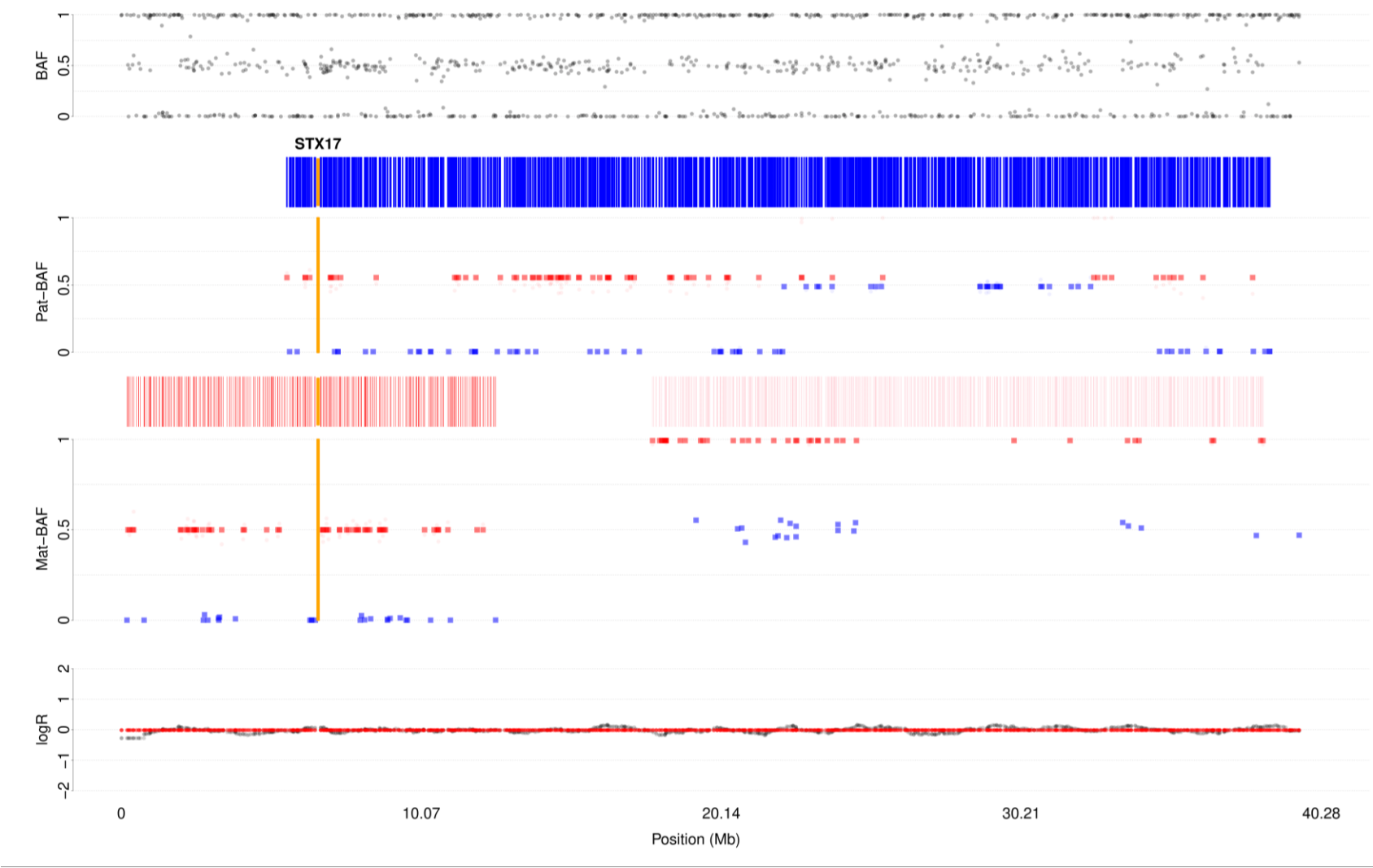
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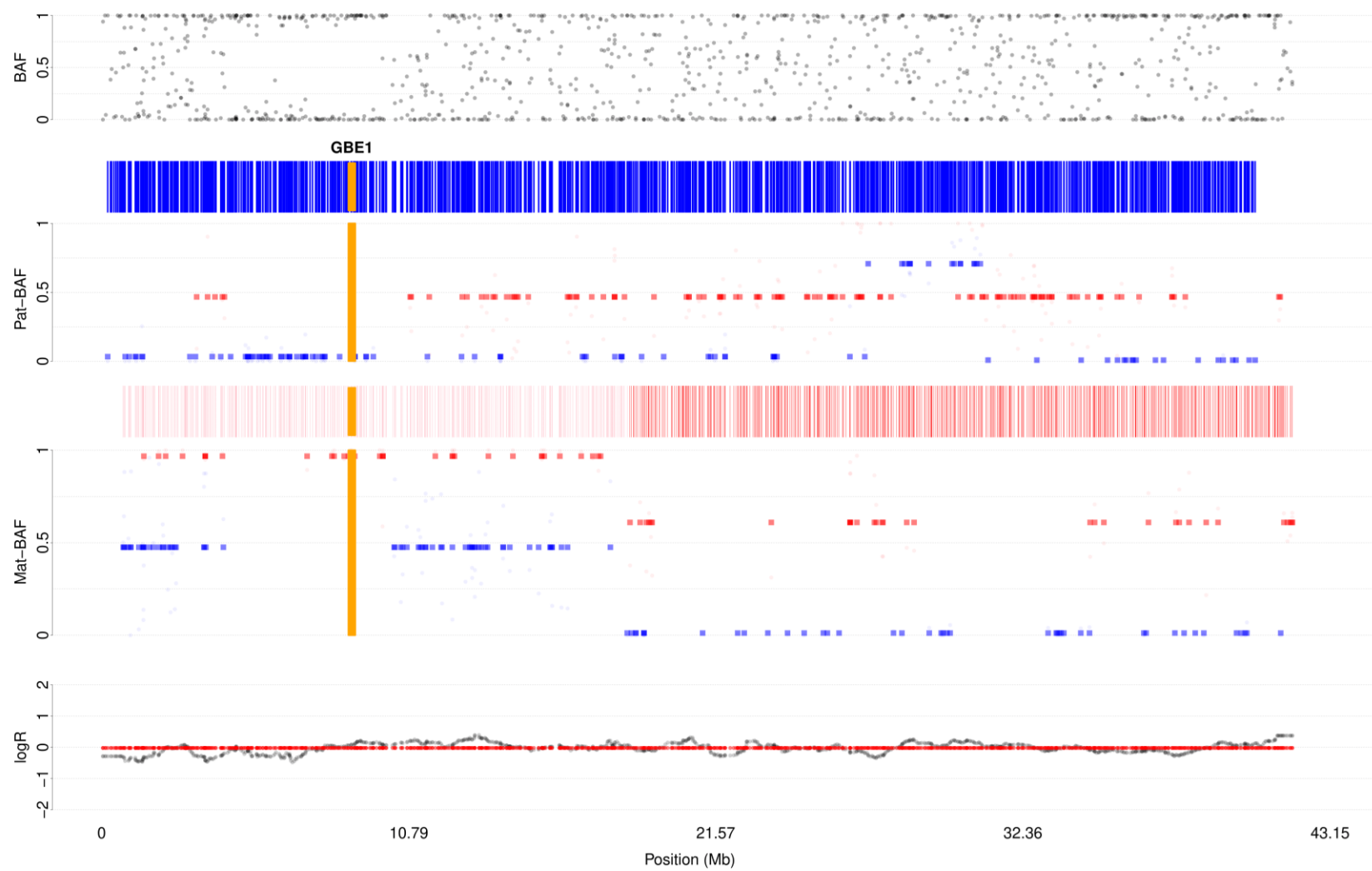
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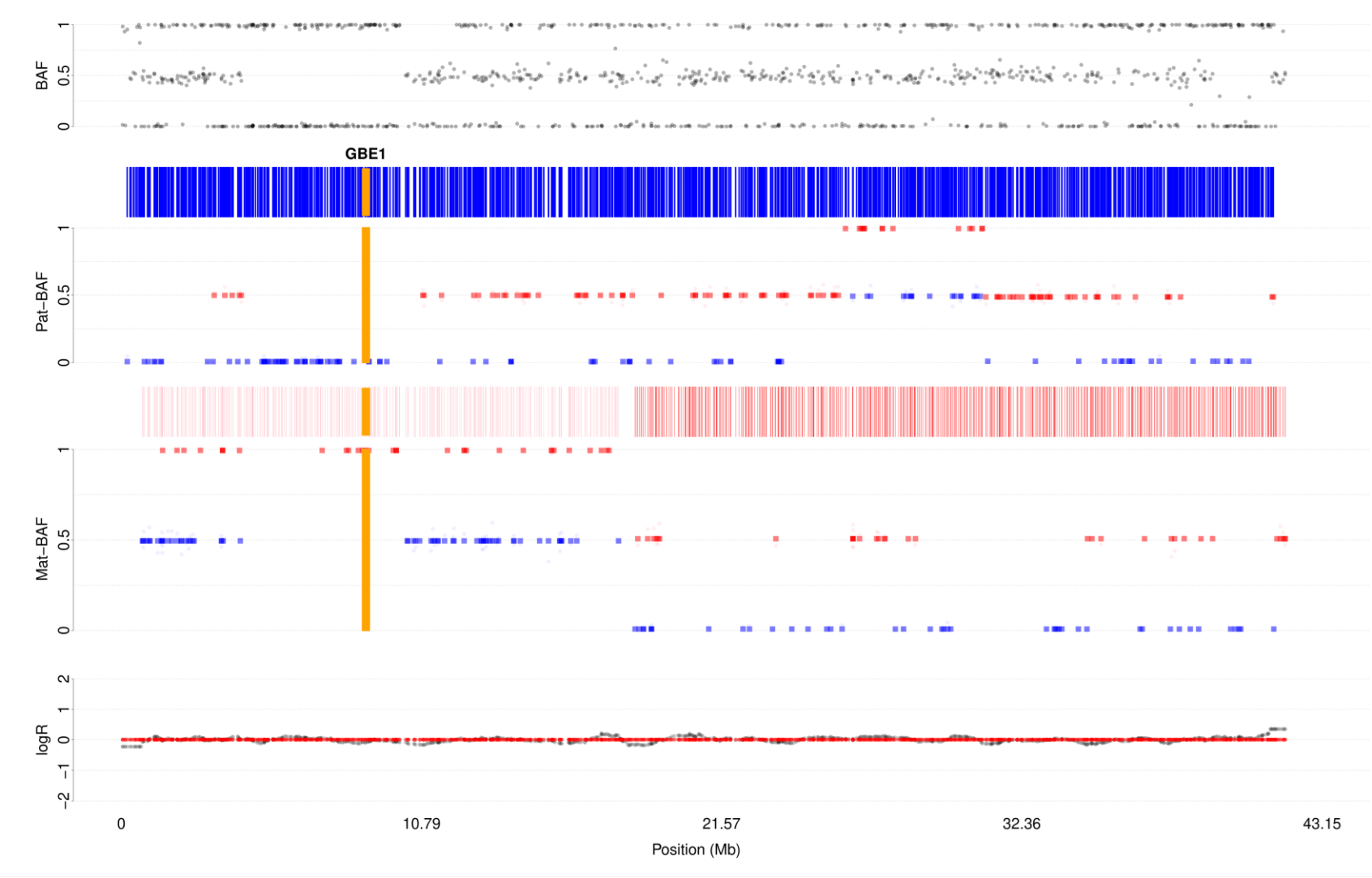
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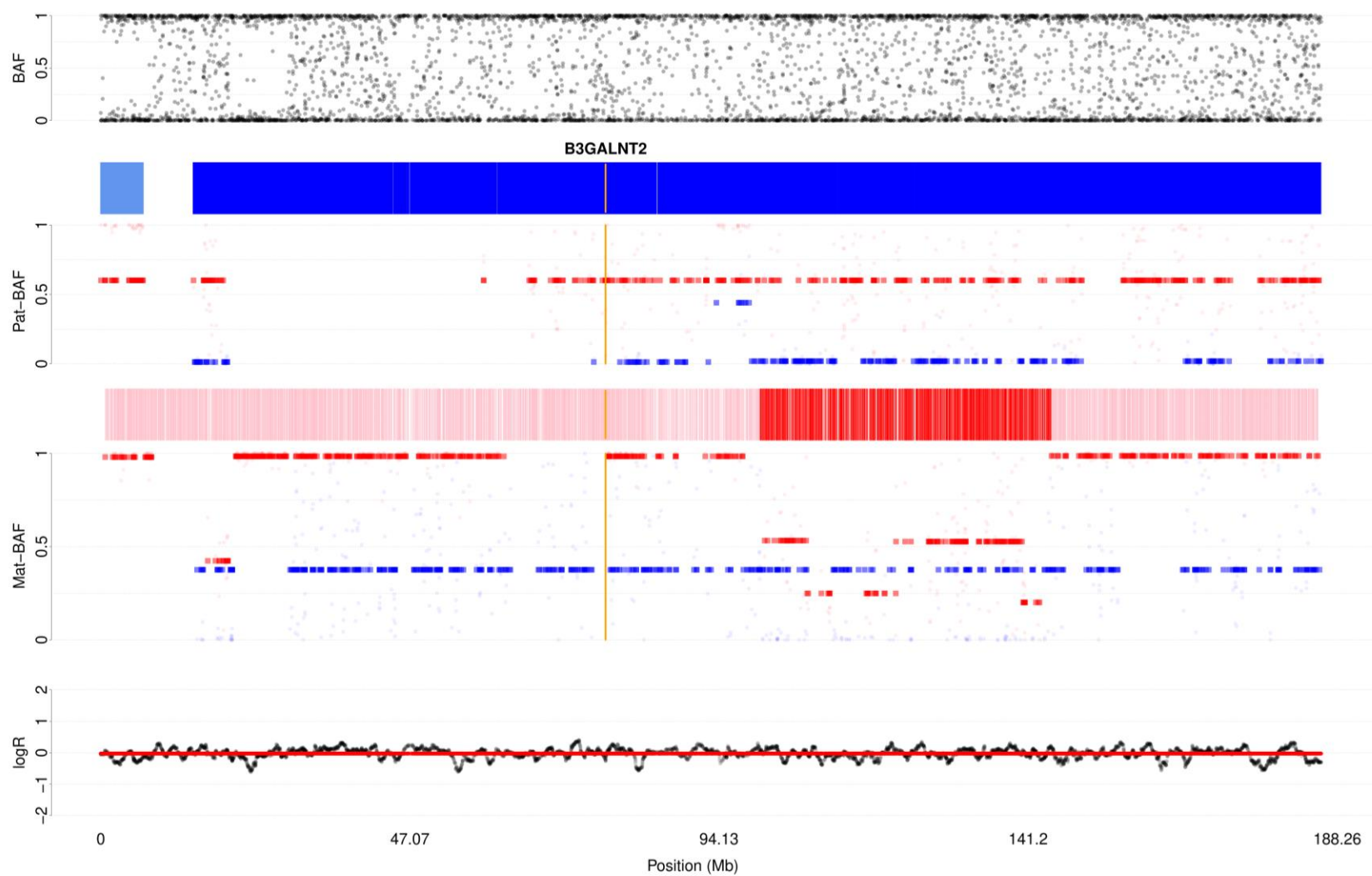
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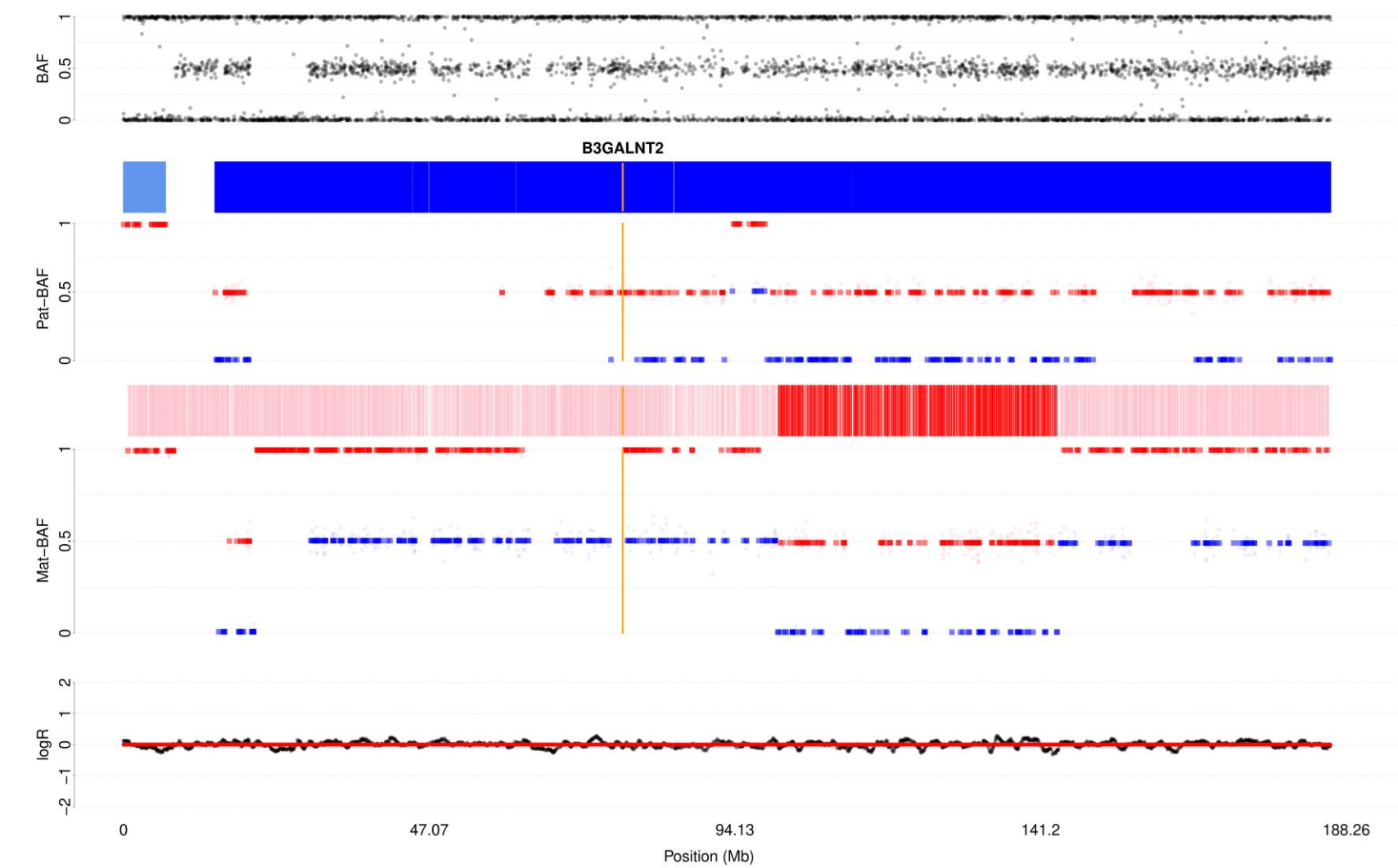
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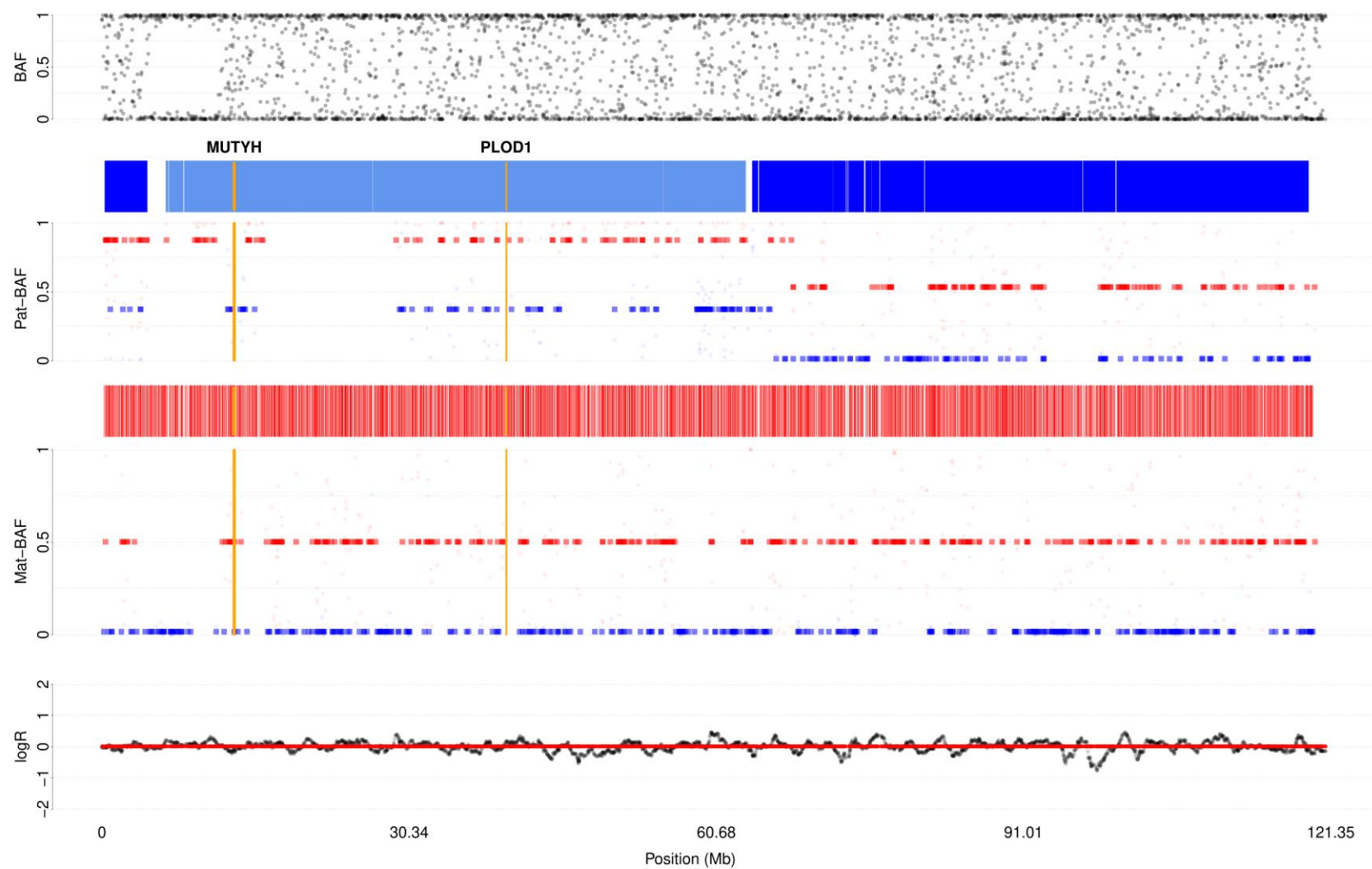
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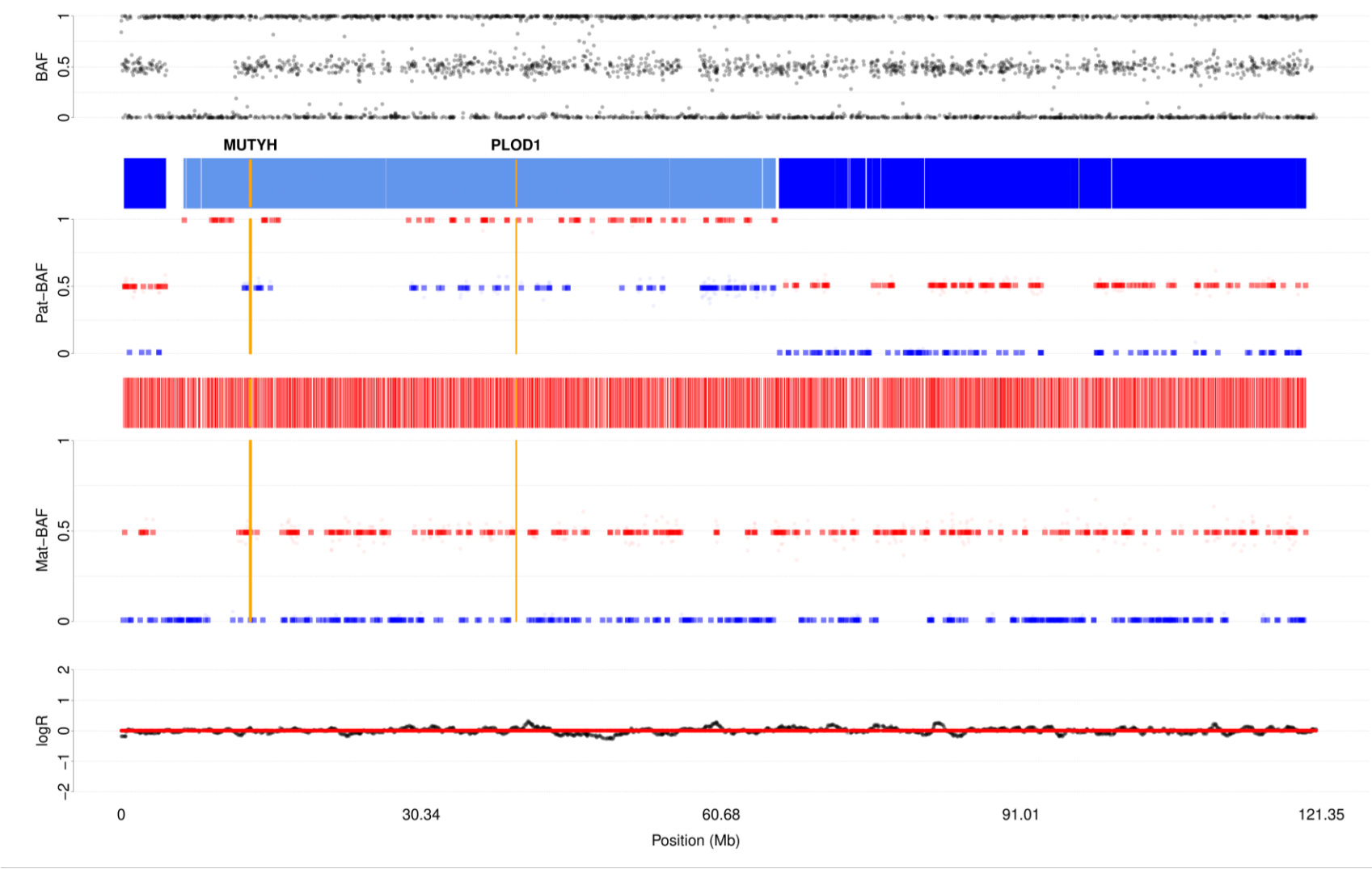
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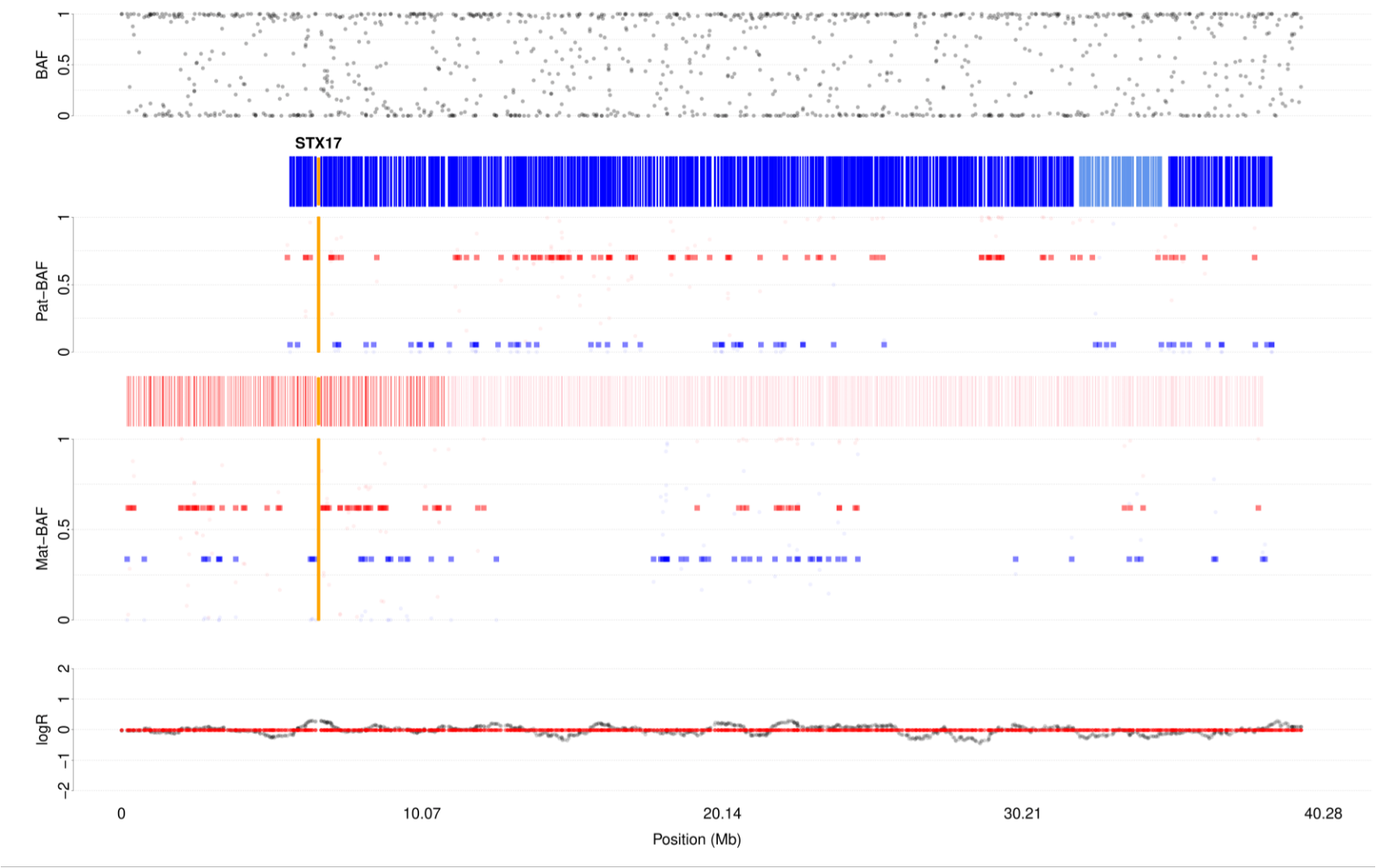
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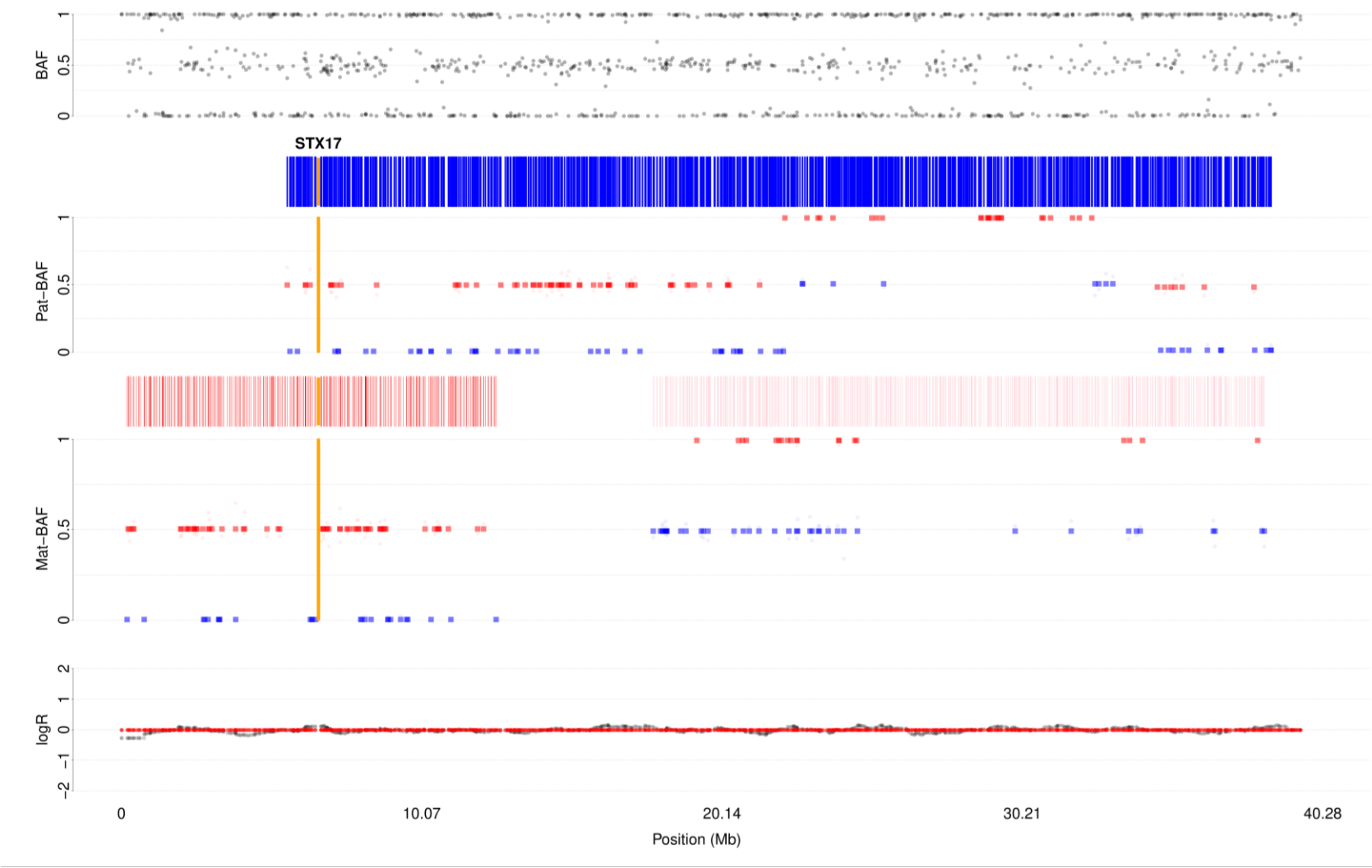
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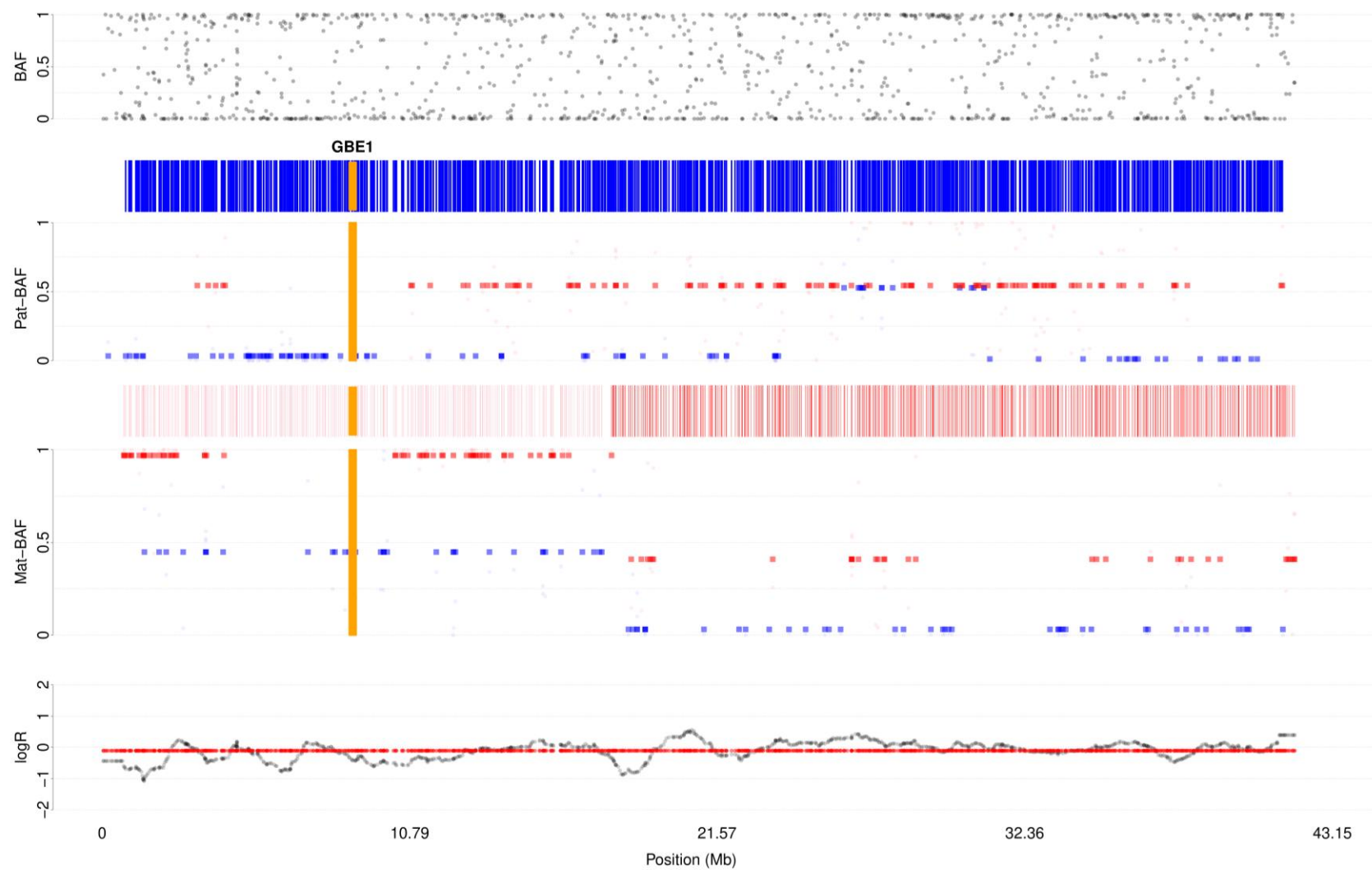
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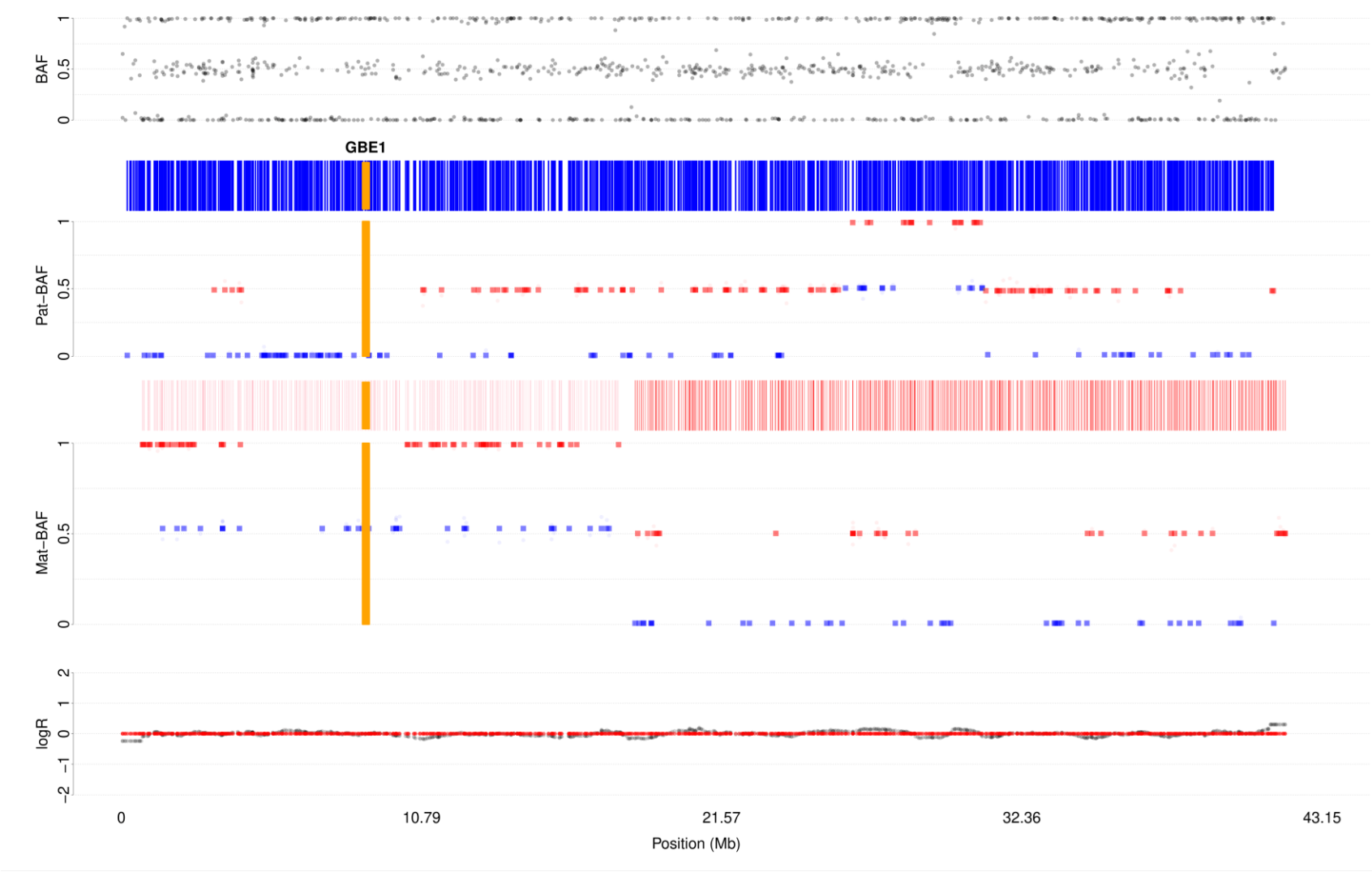
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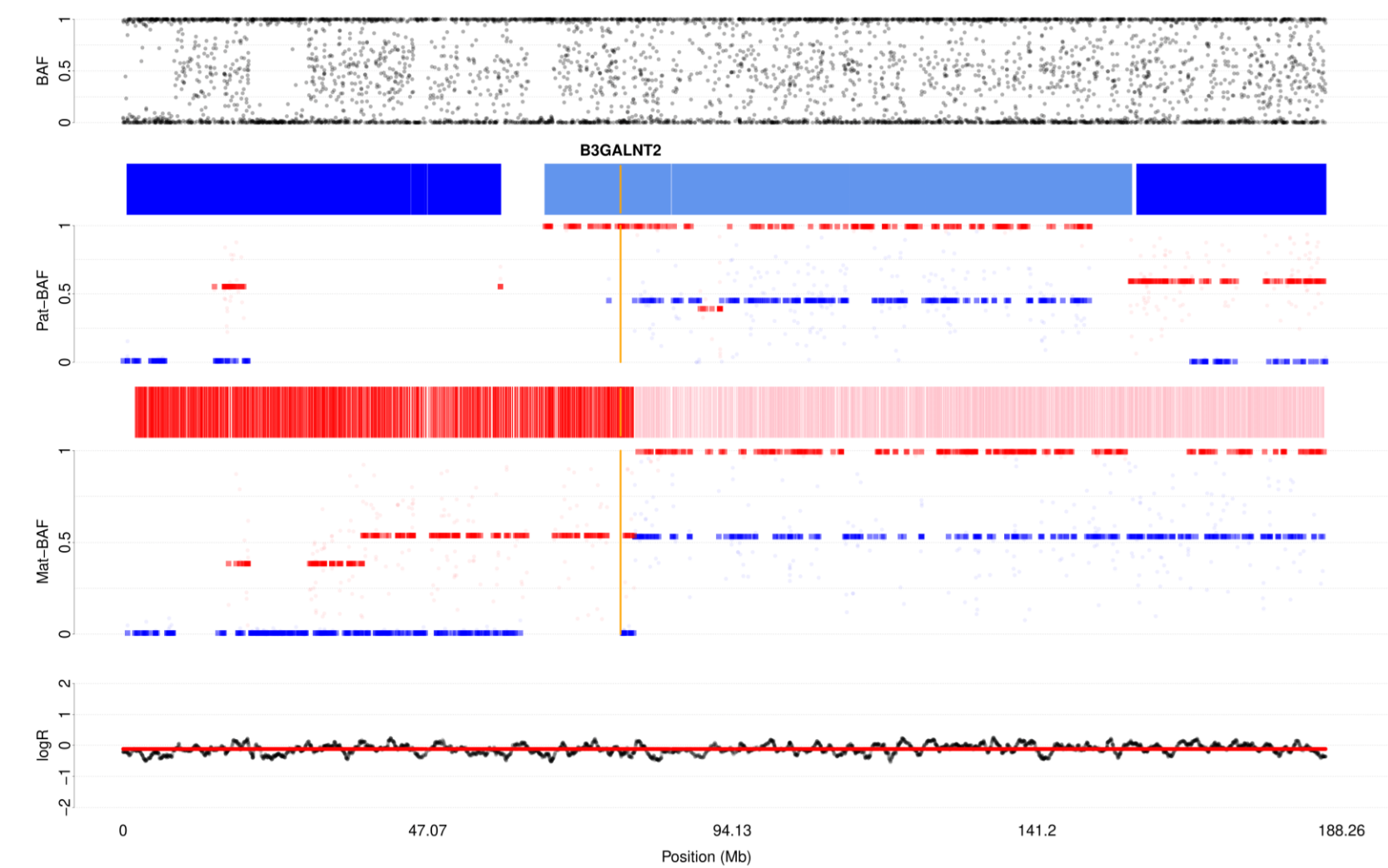
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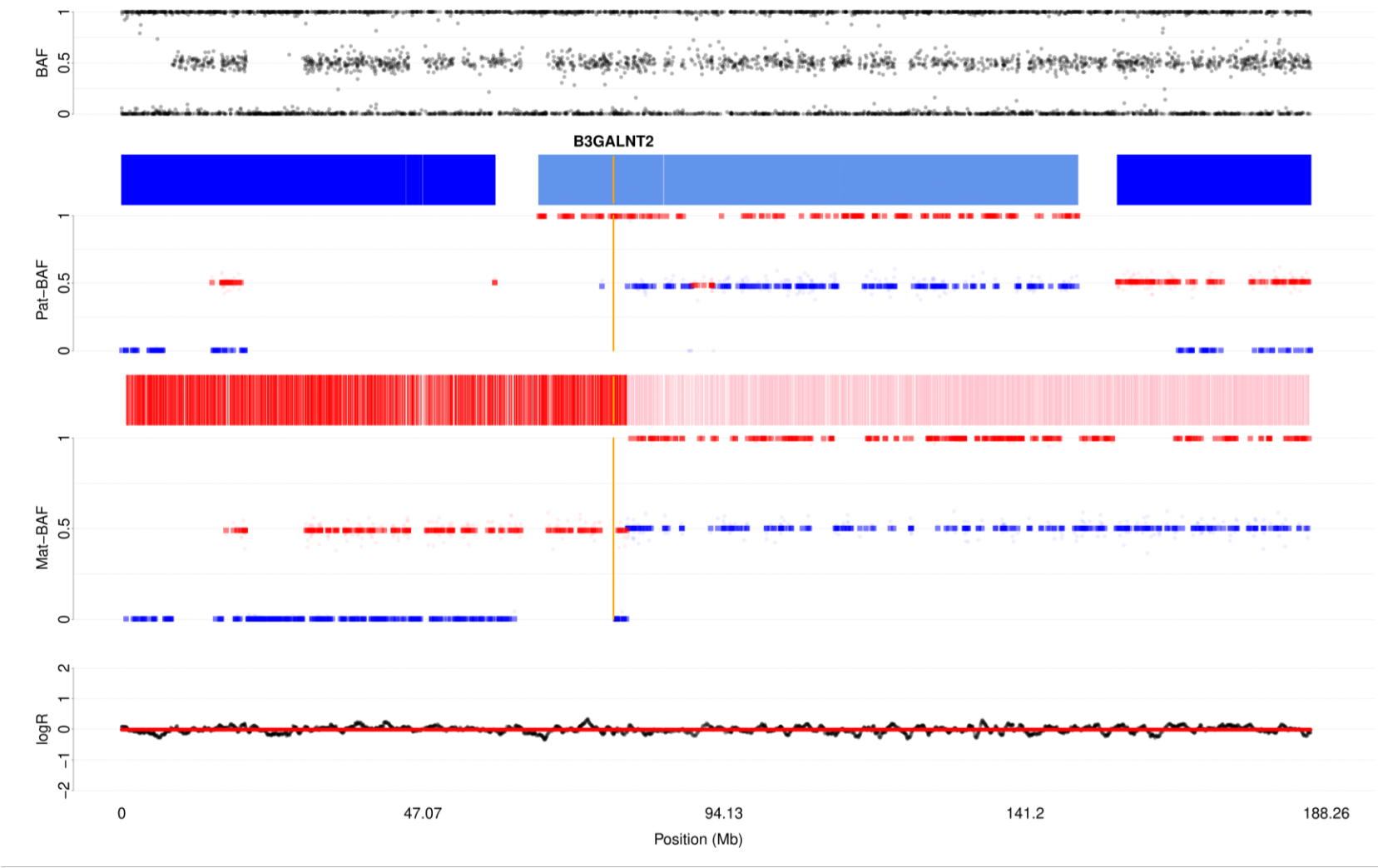
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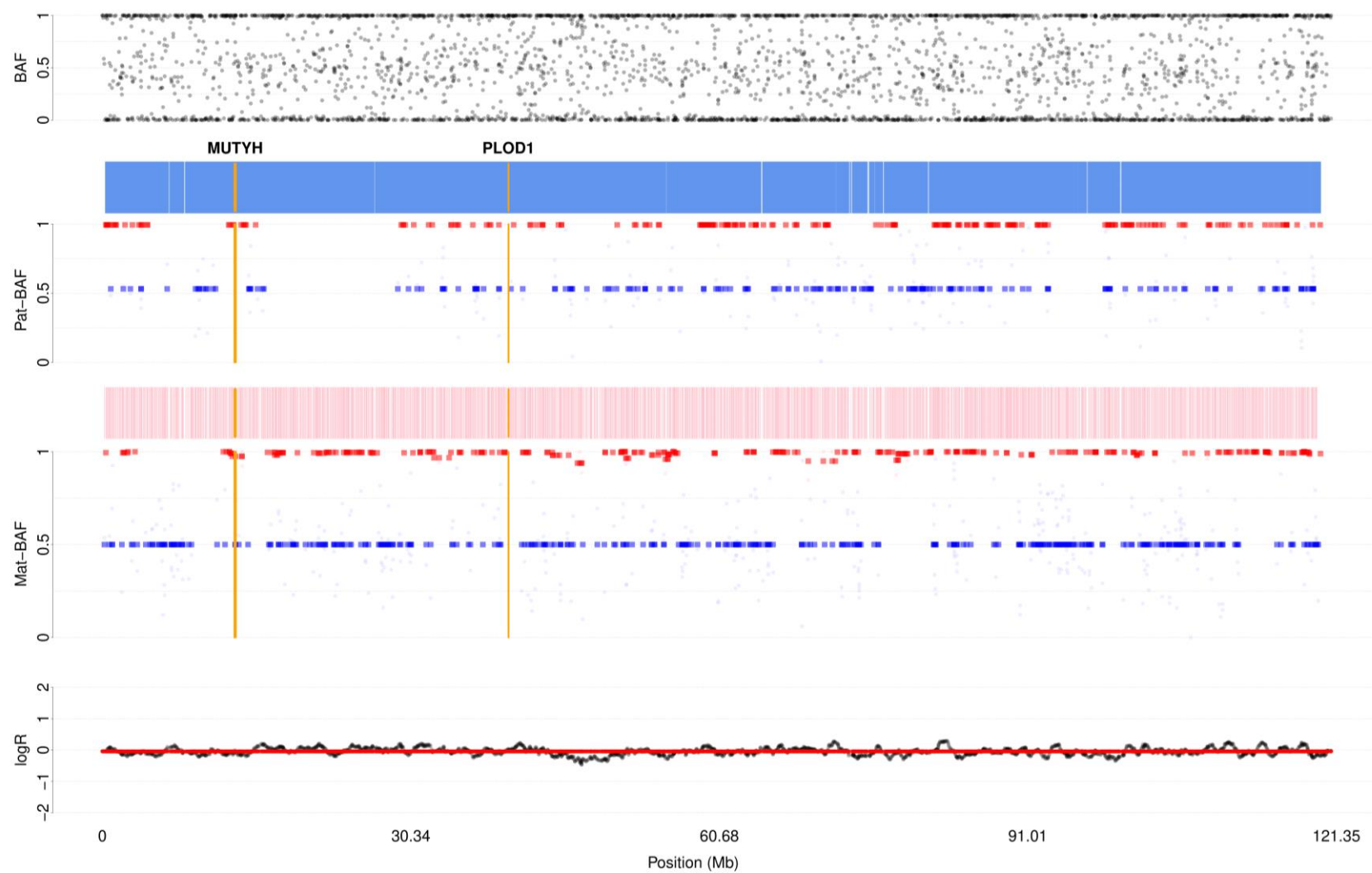
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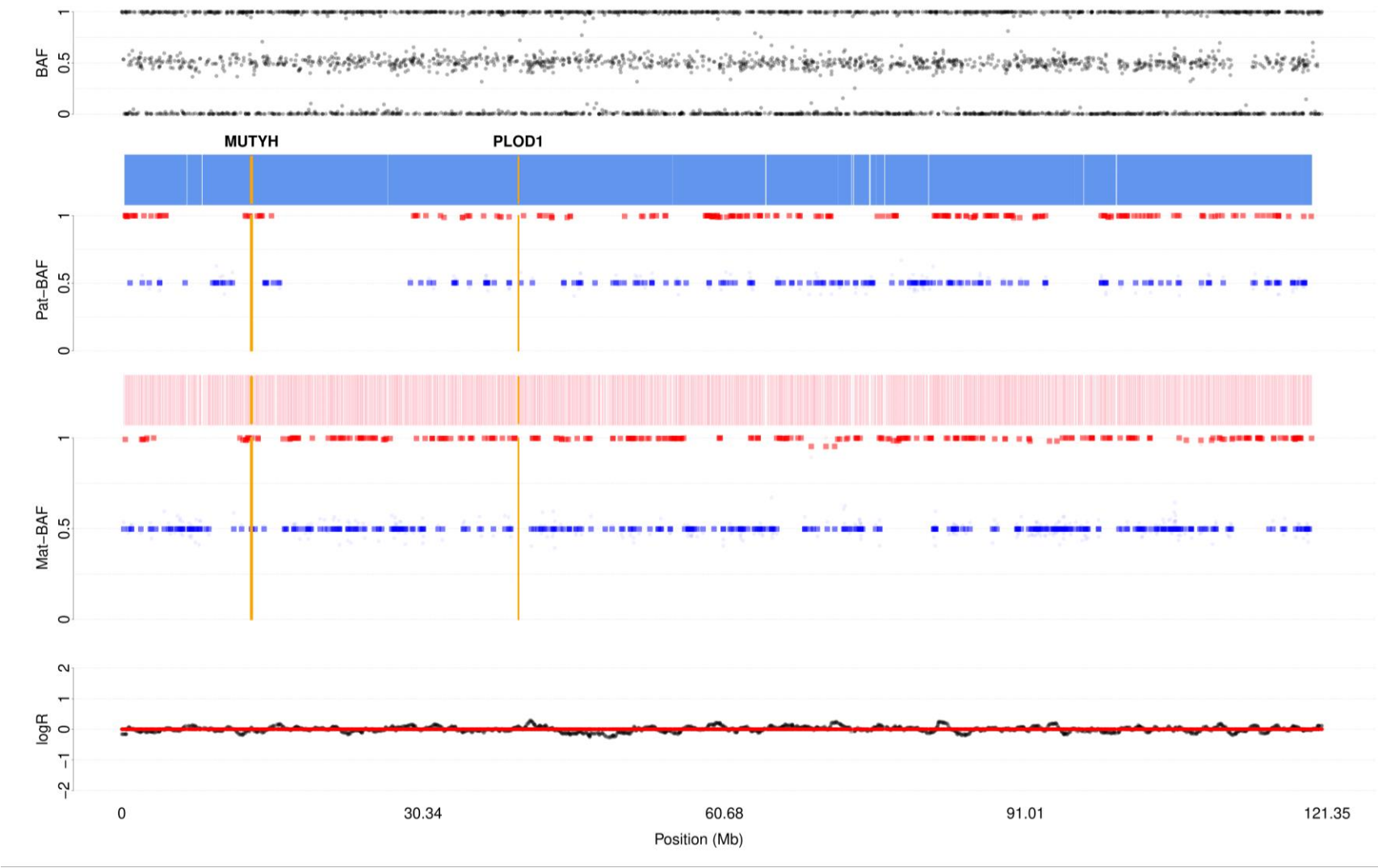
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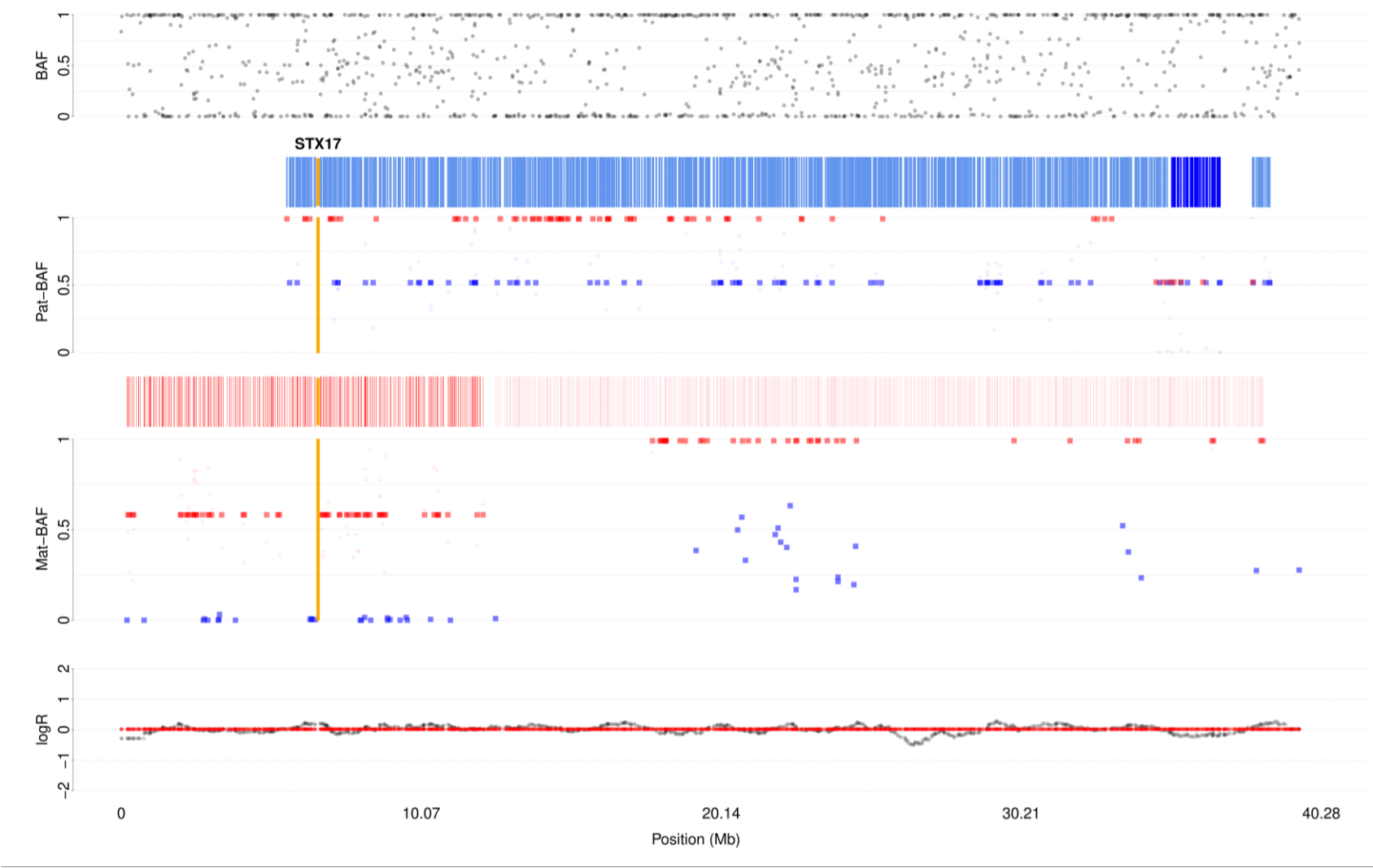
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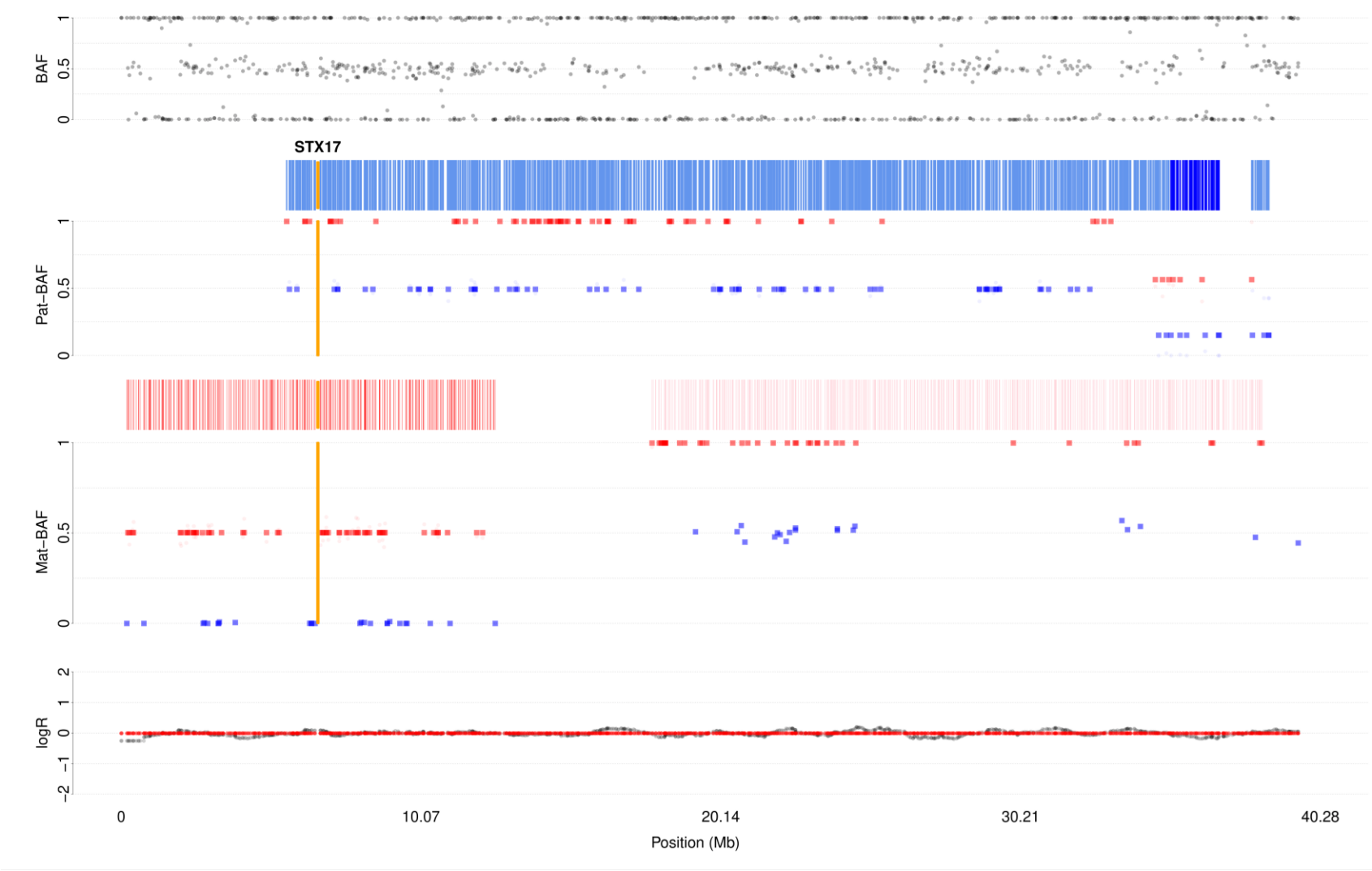
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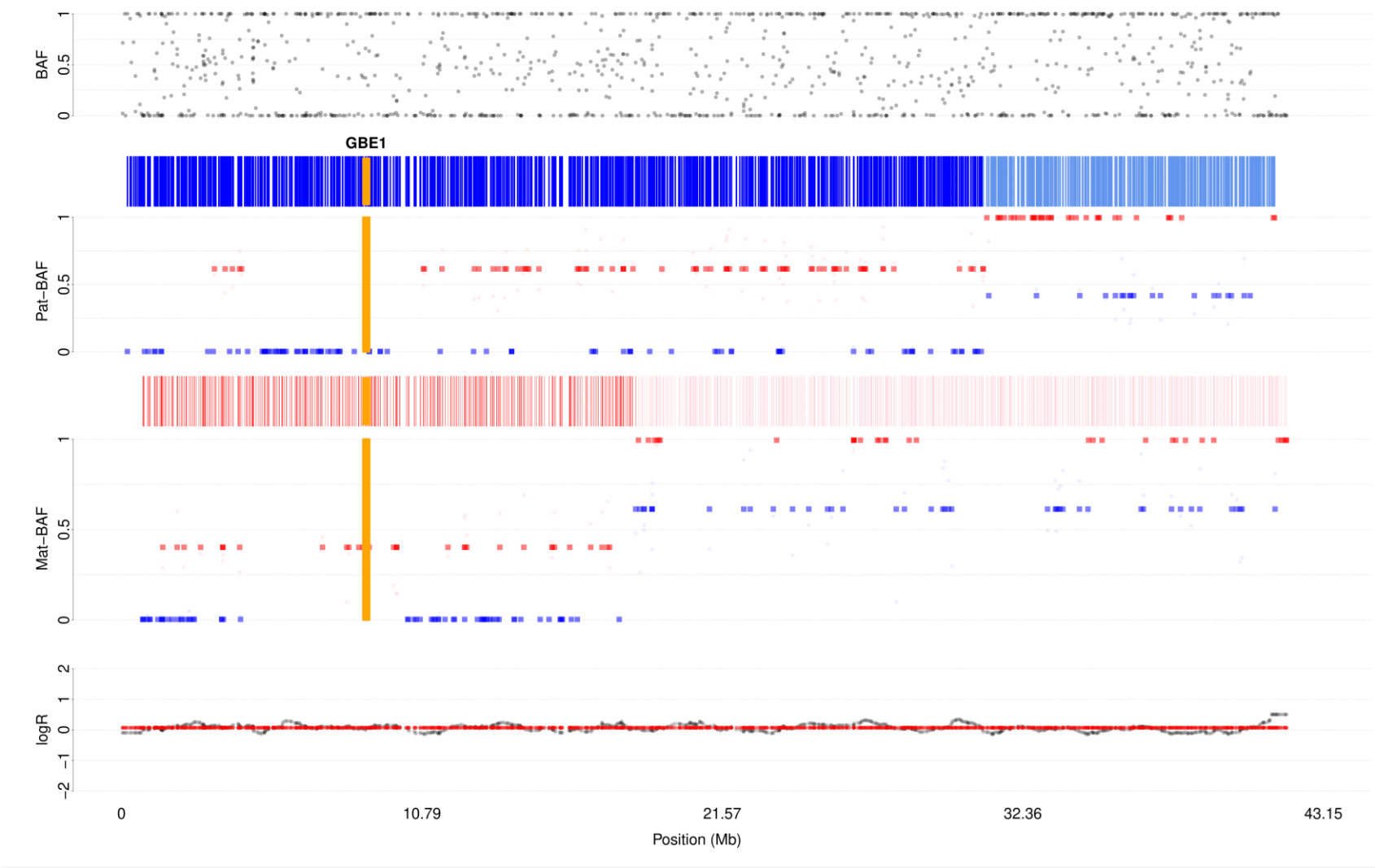
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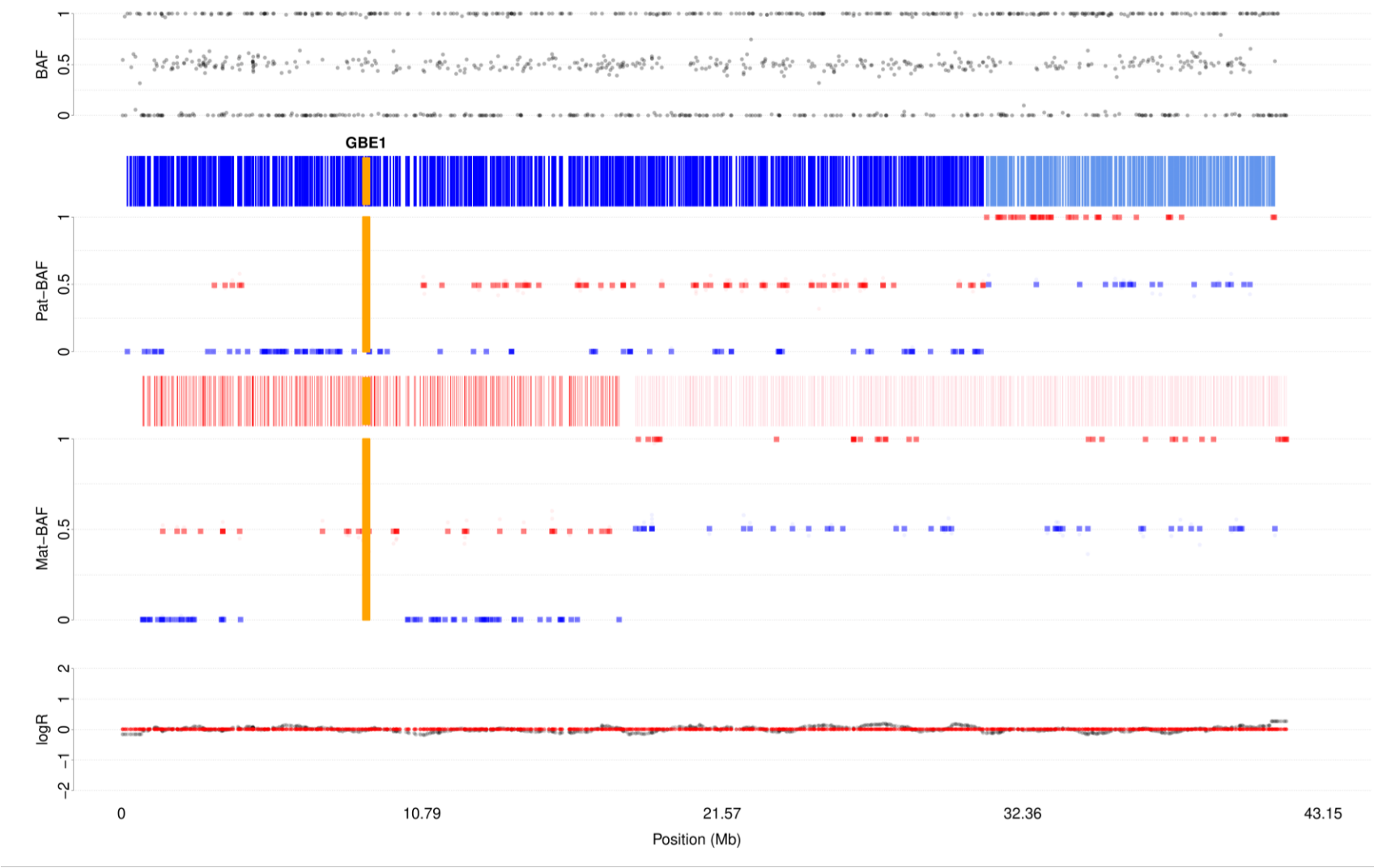
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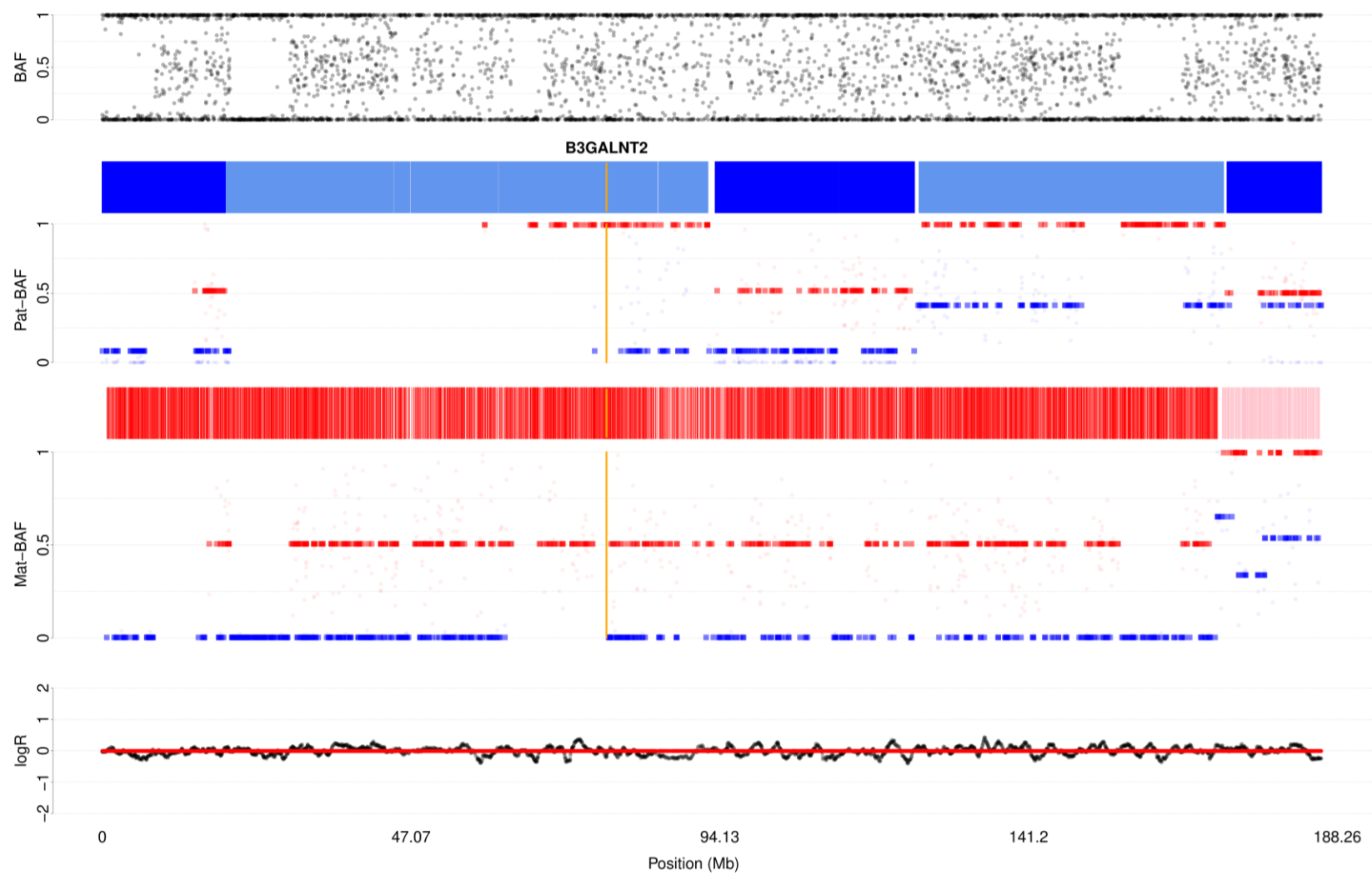
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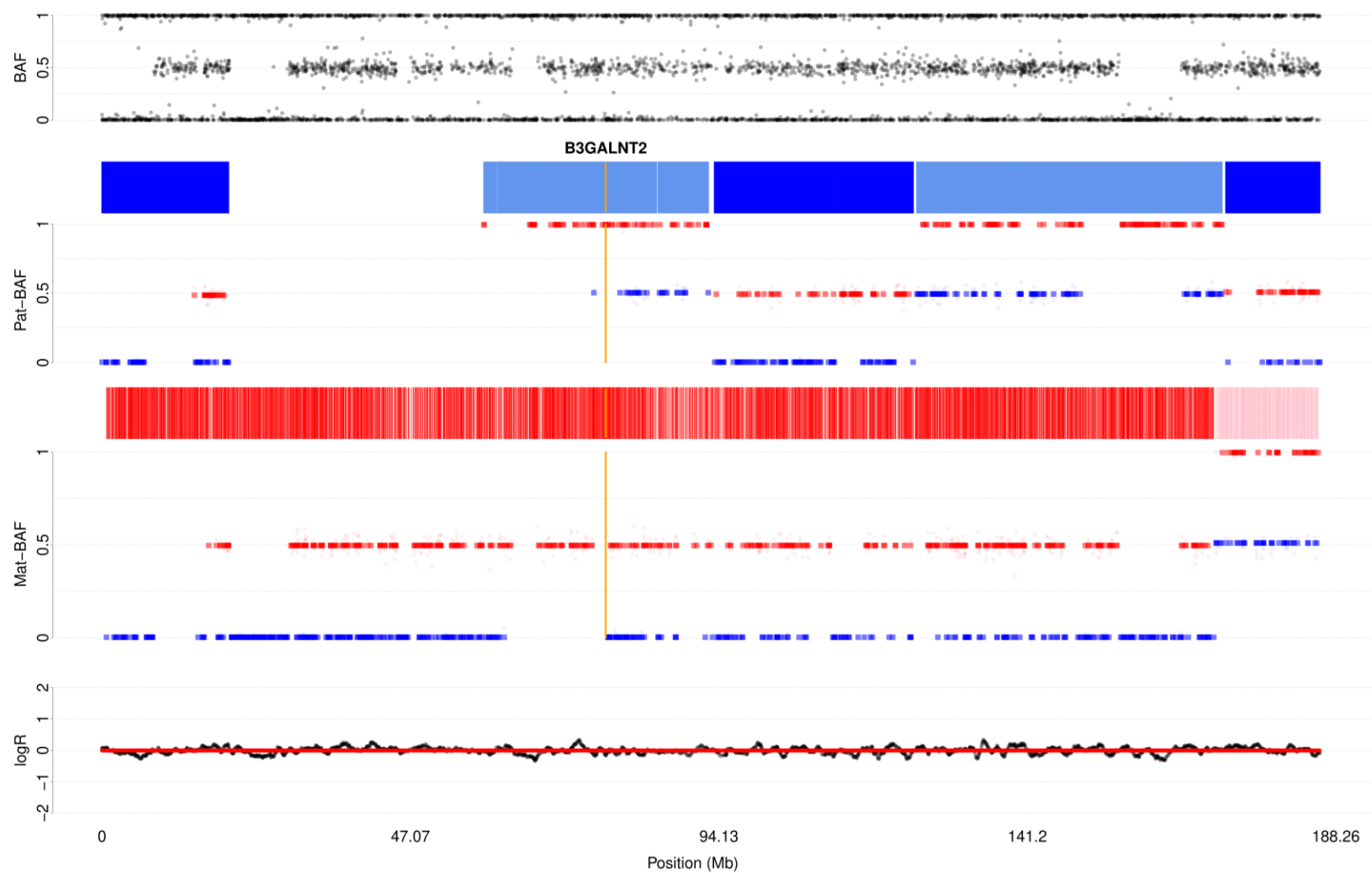
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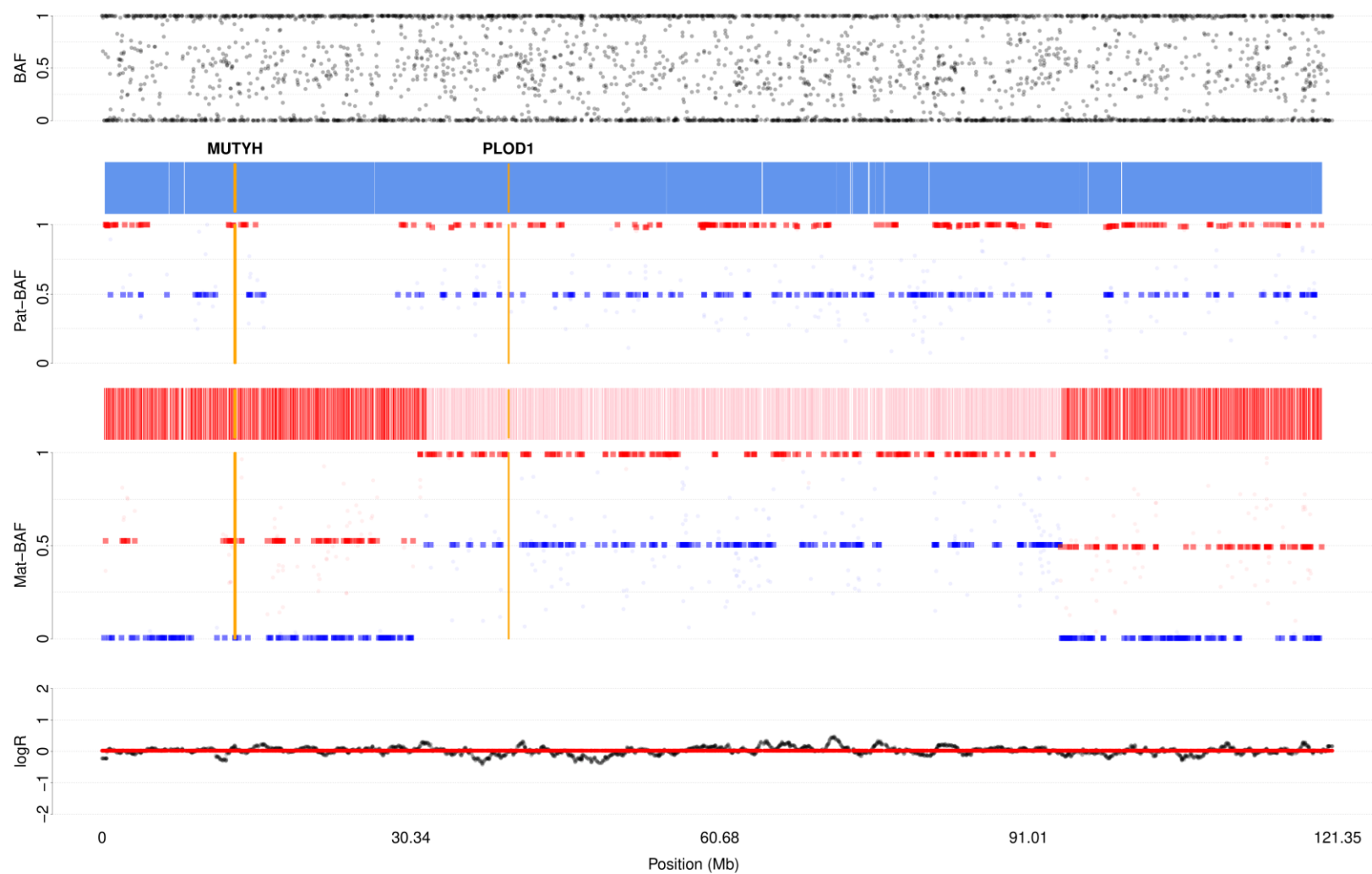
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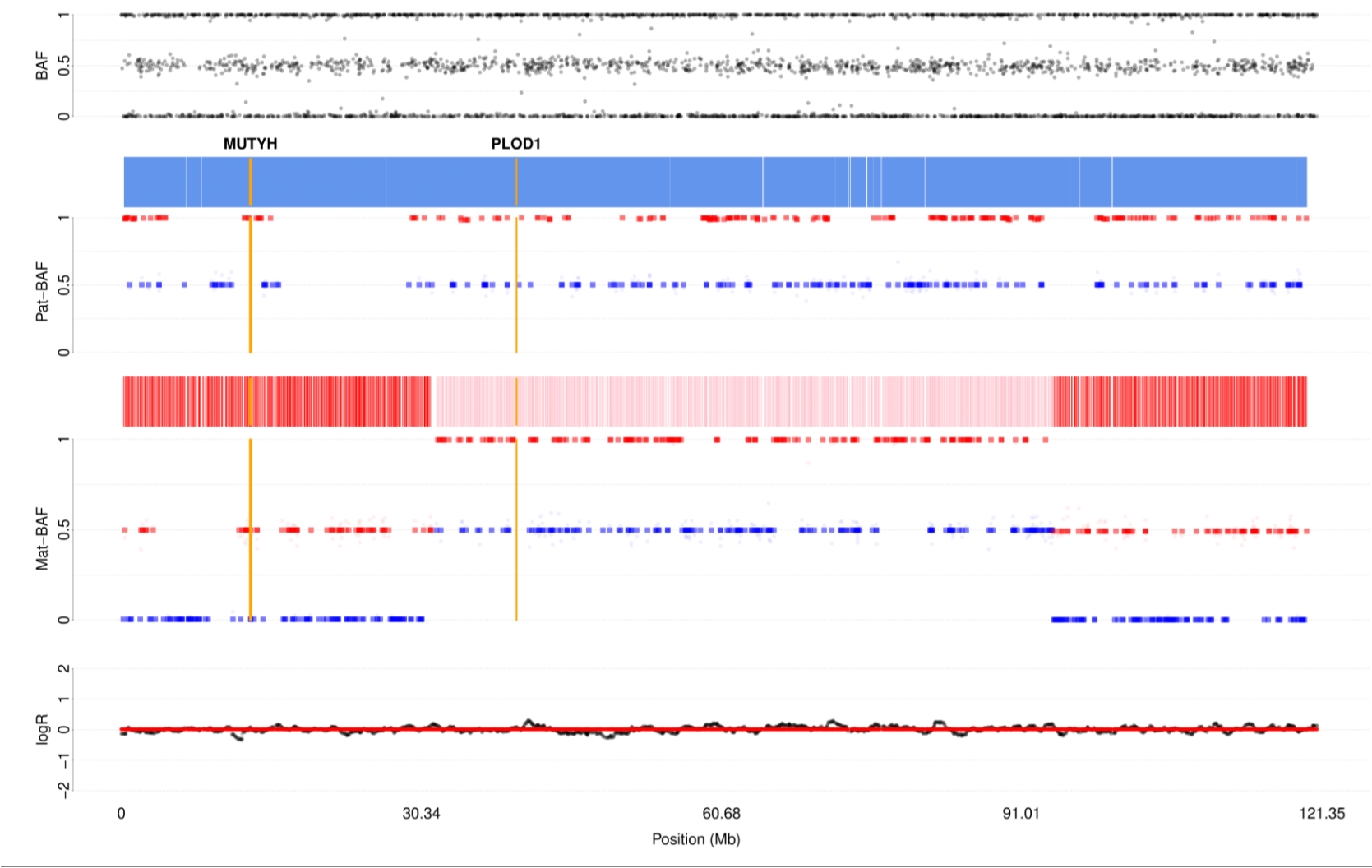
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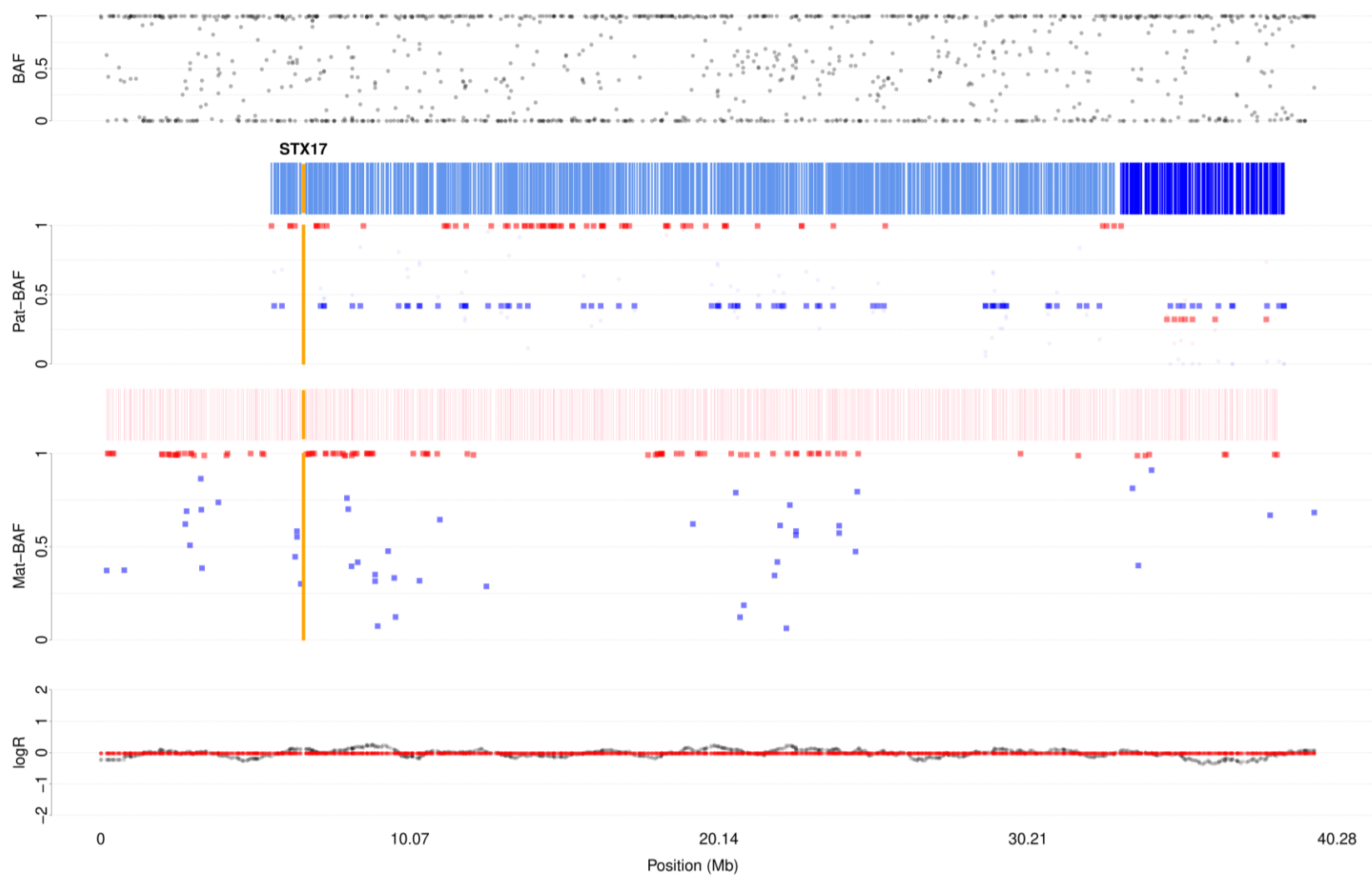
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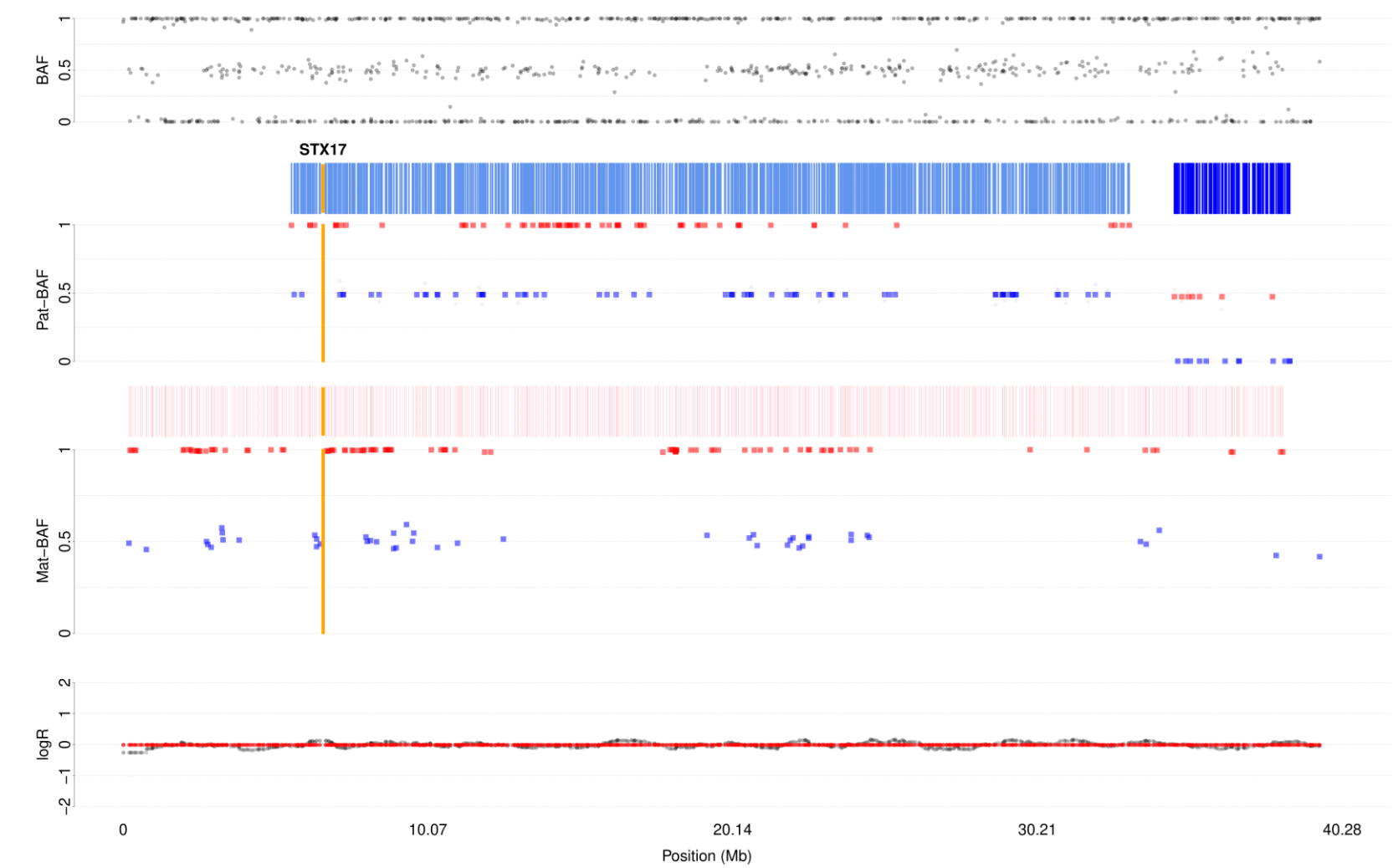
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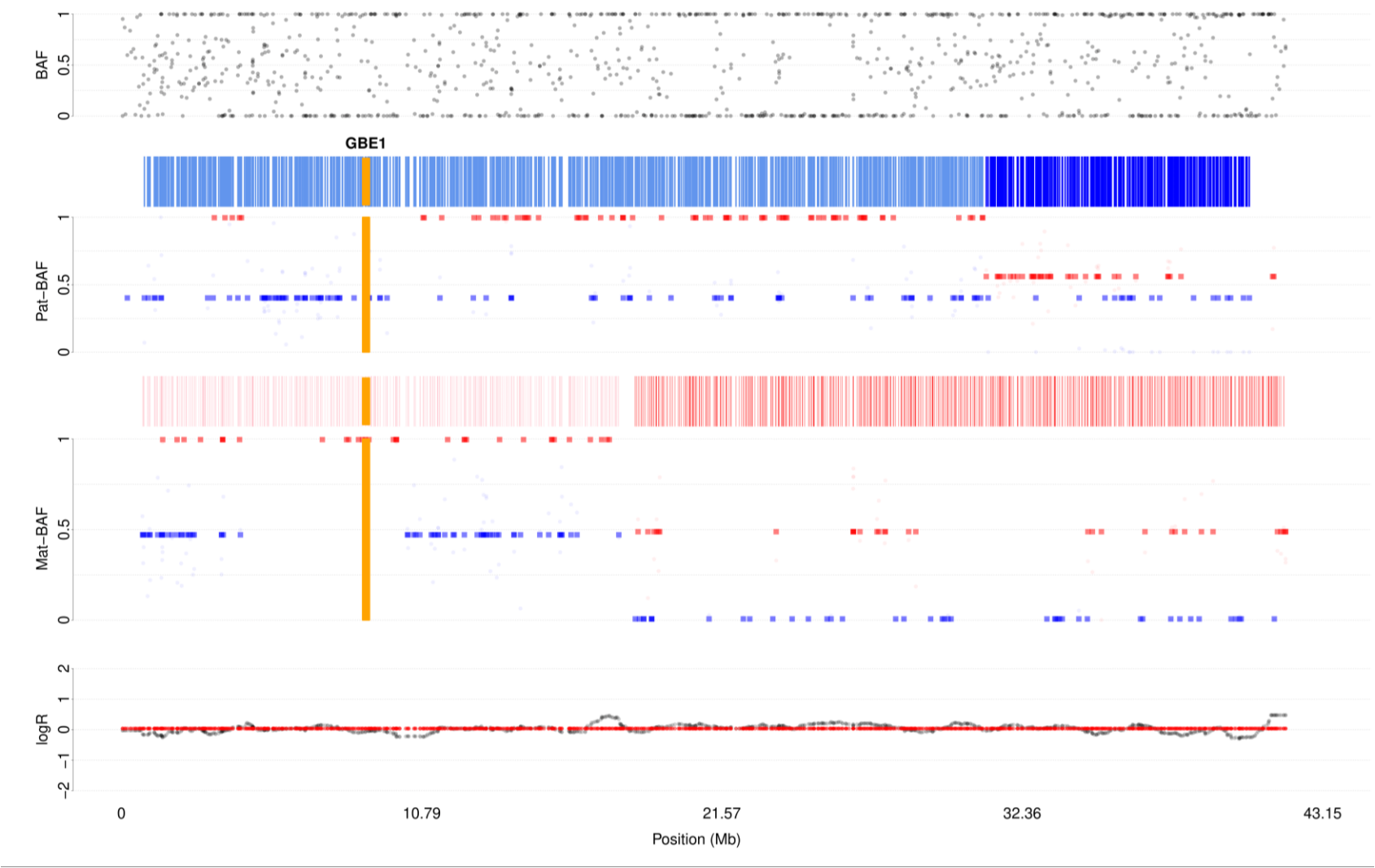
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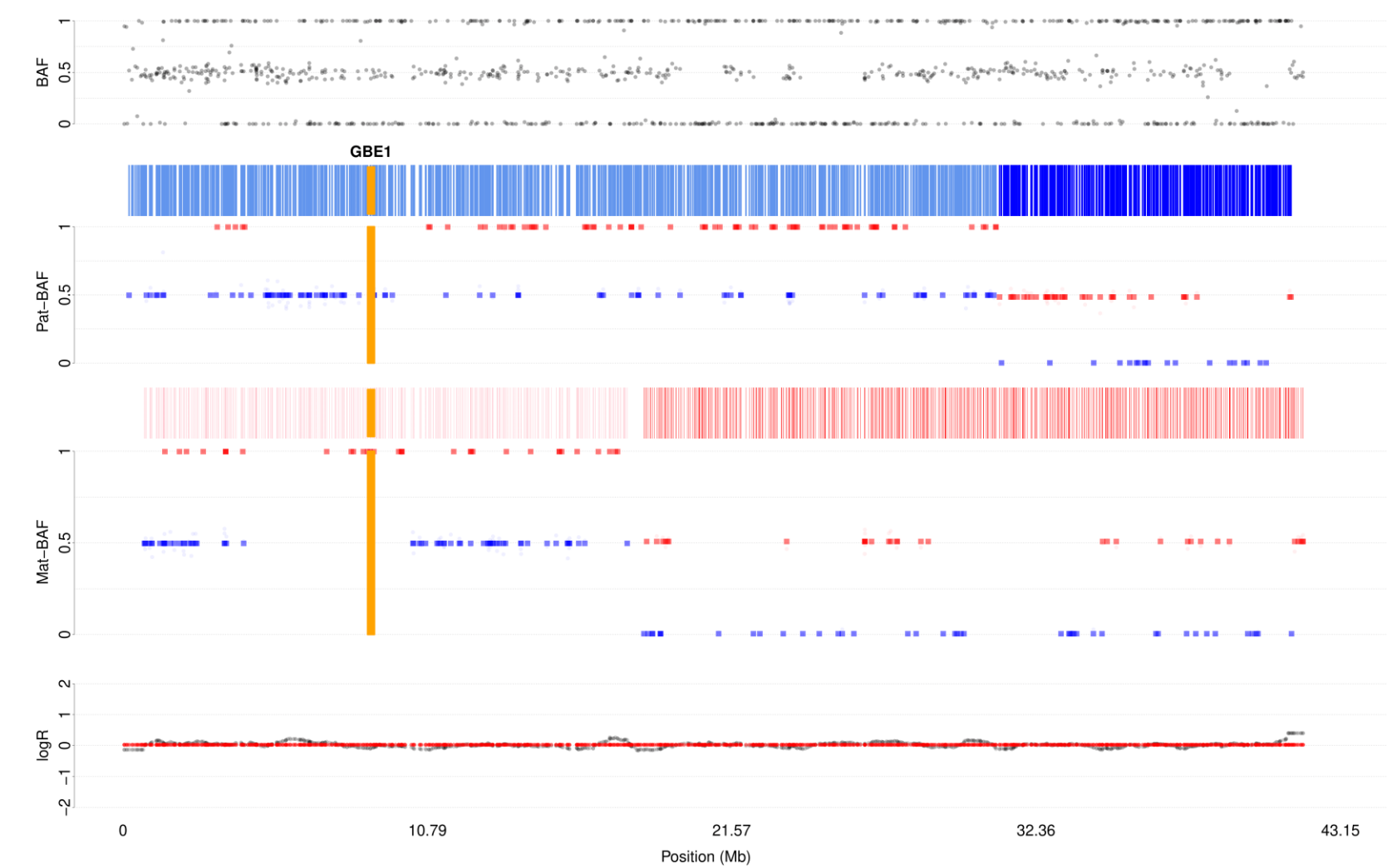
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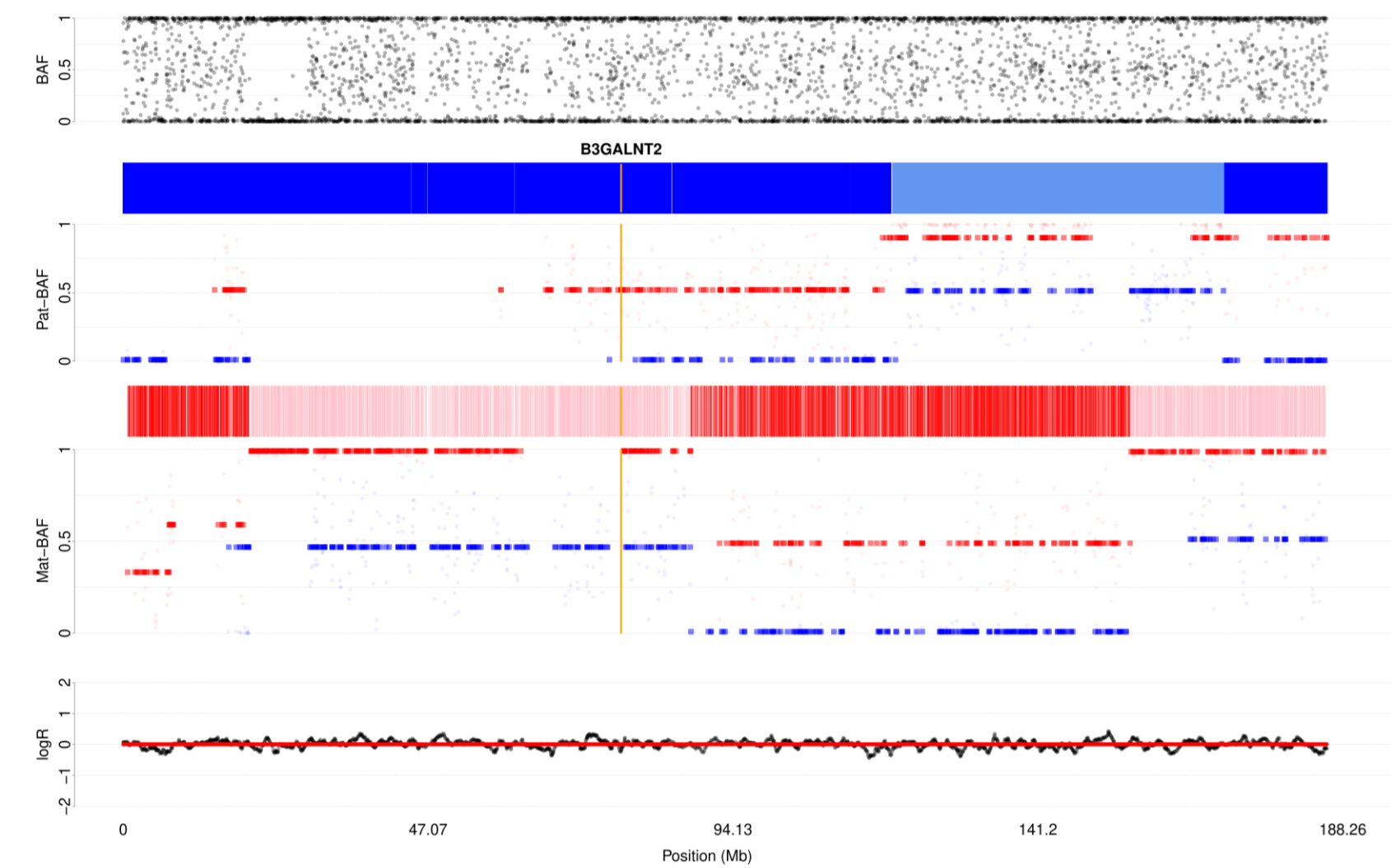
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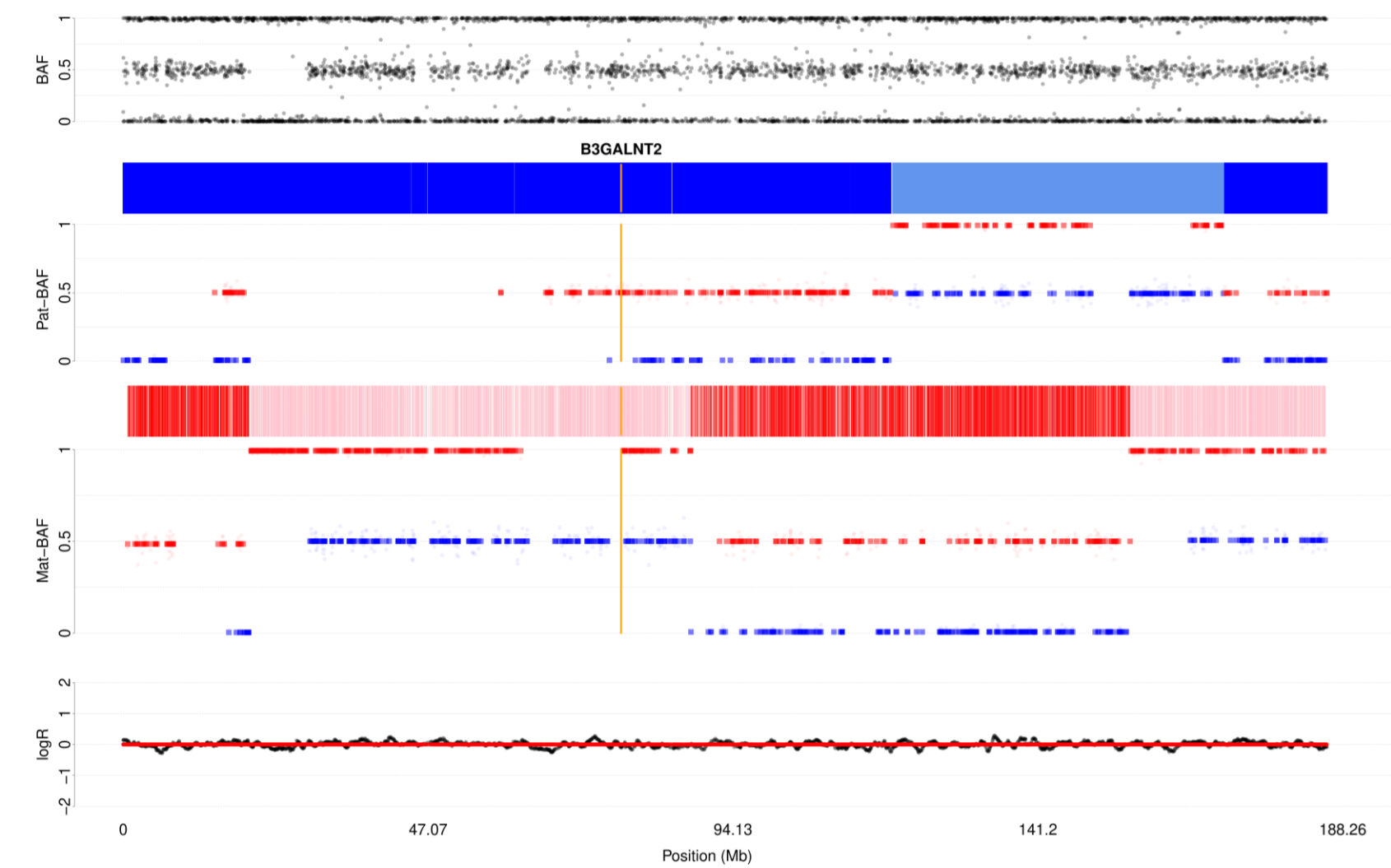
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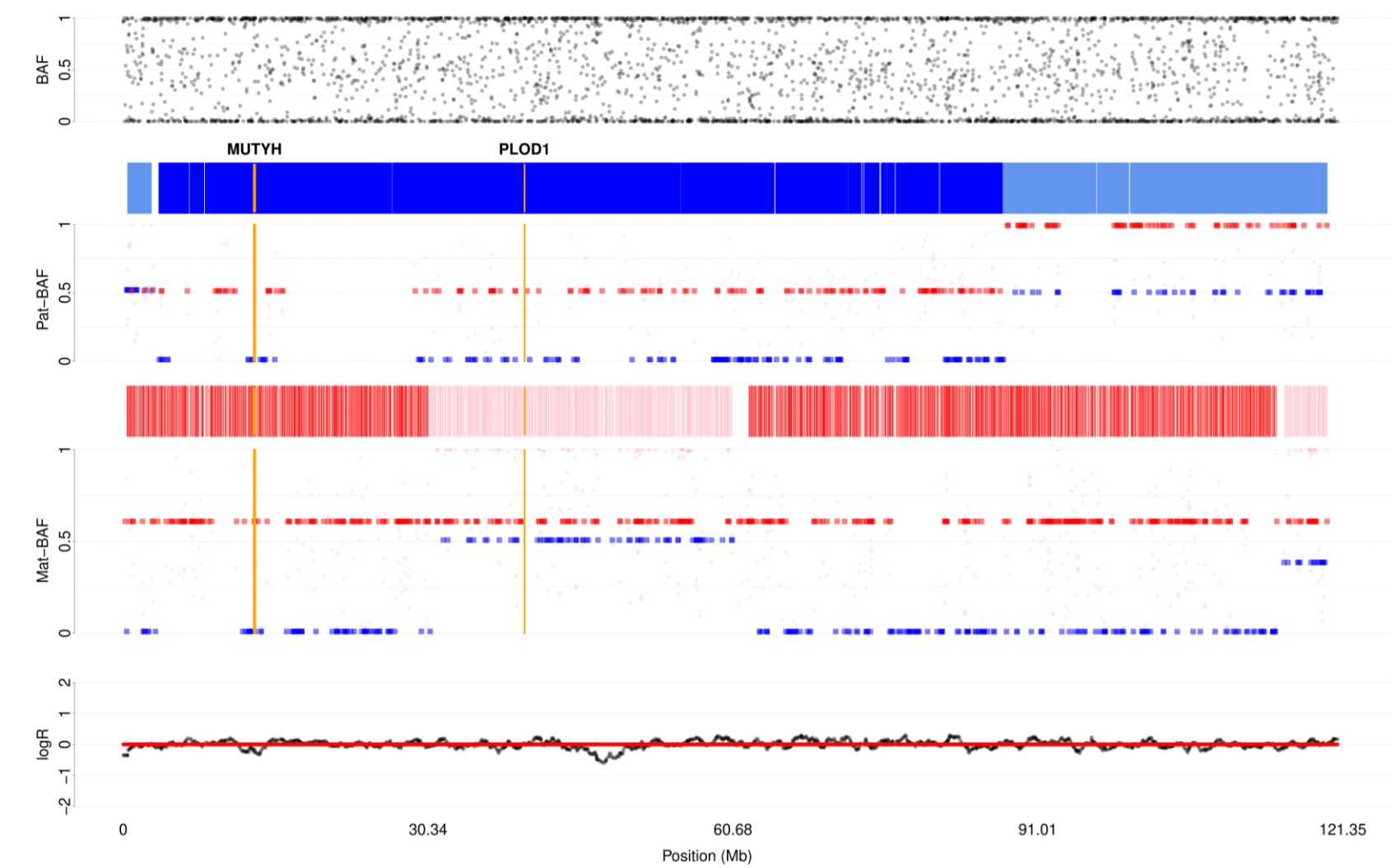
Mare02_Embryo02_Biopsy_Chromosome01



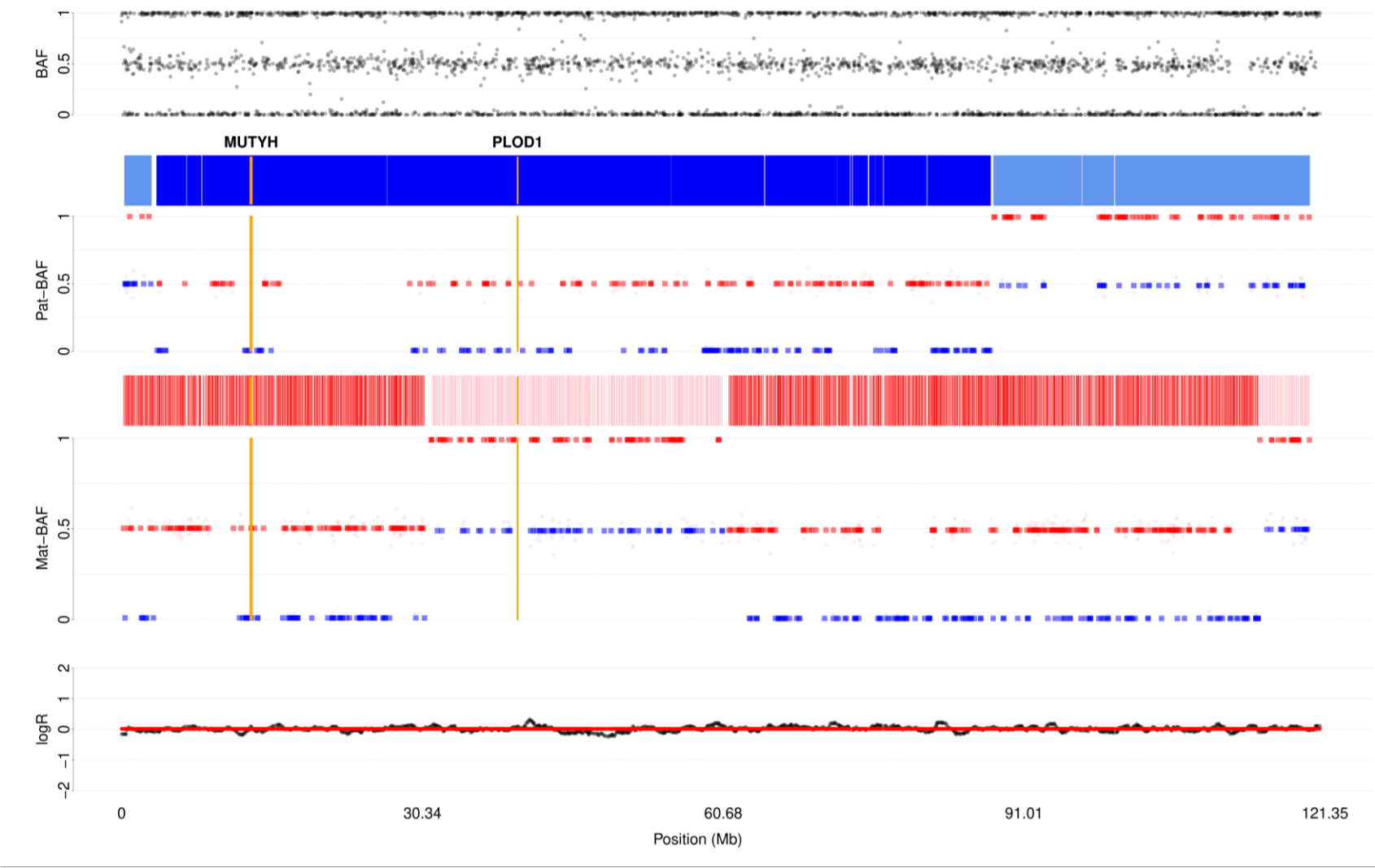
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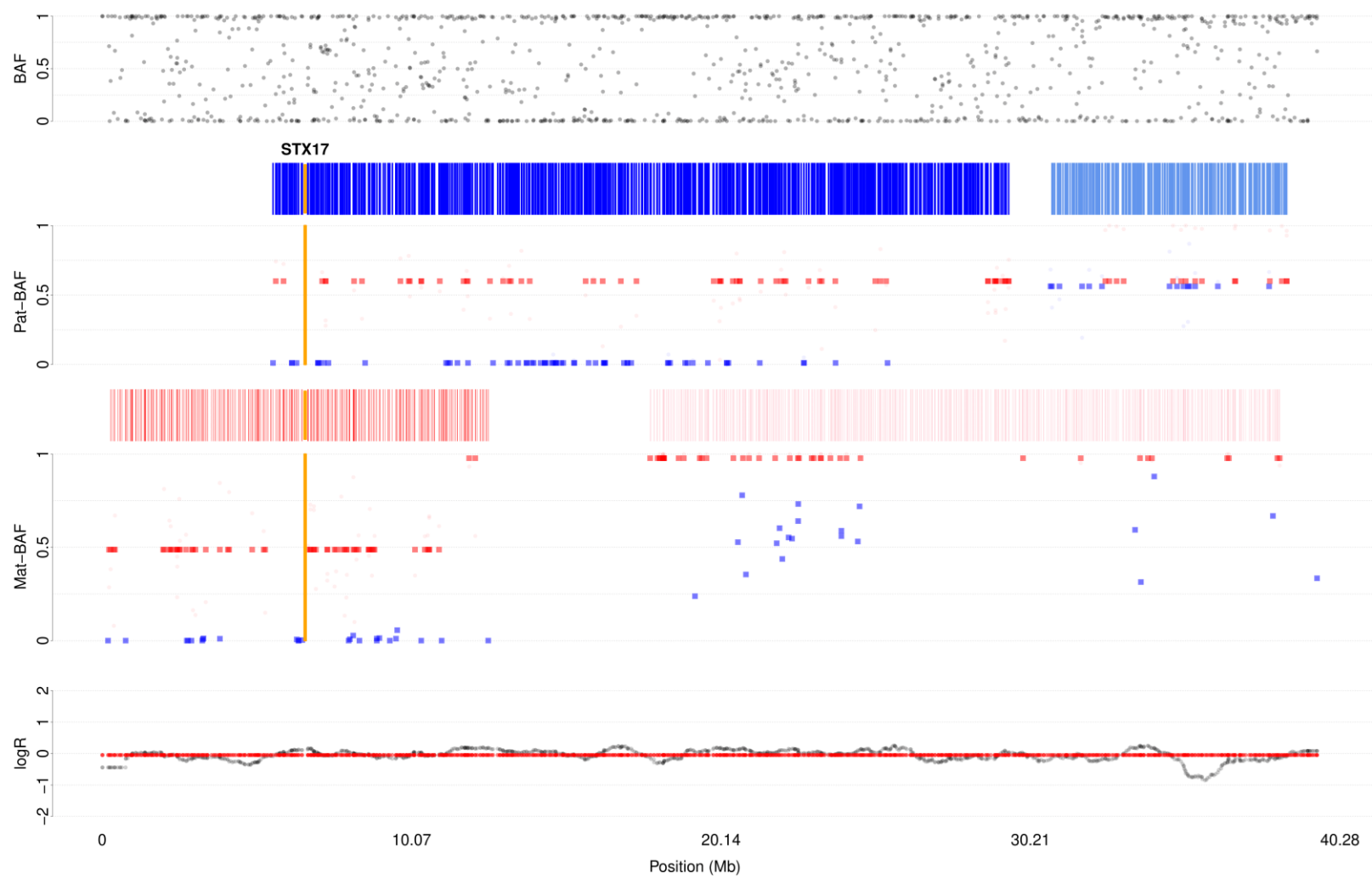
Mare02_Embryo02_Biopsy_Chromosome02



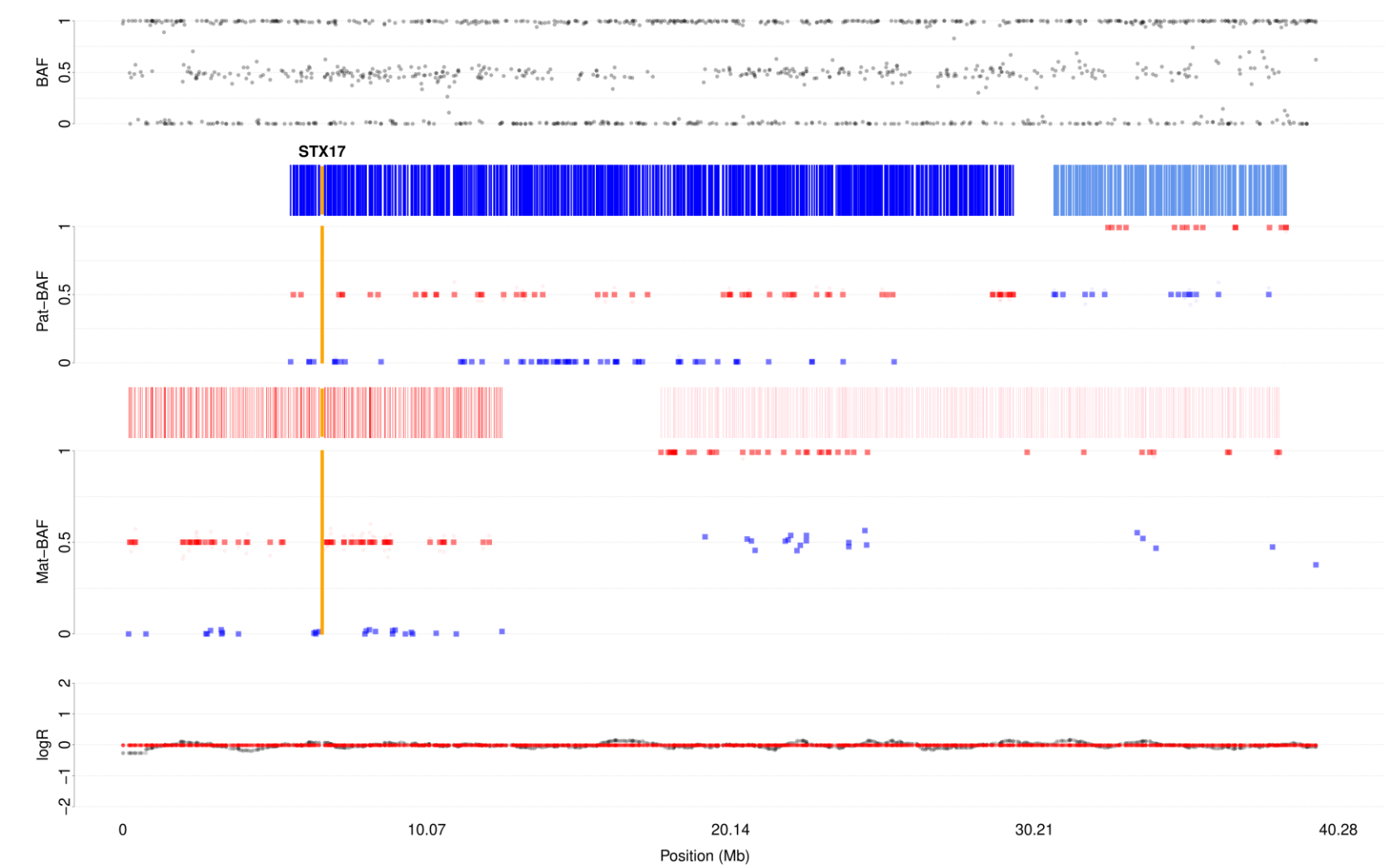
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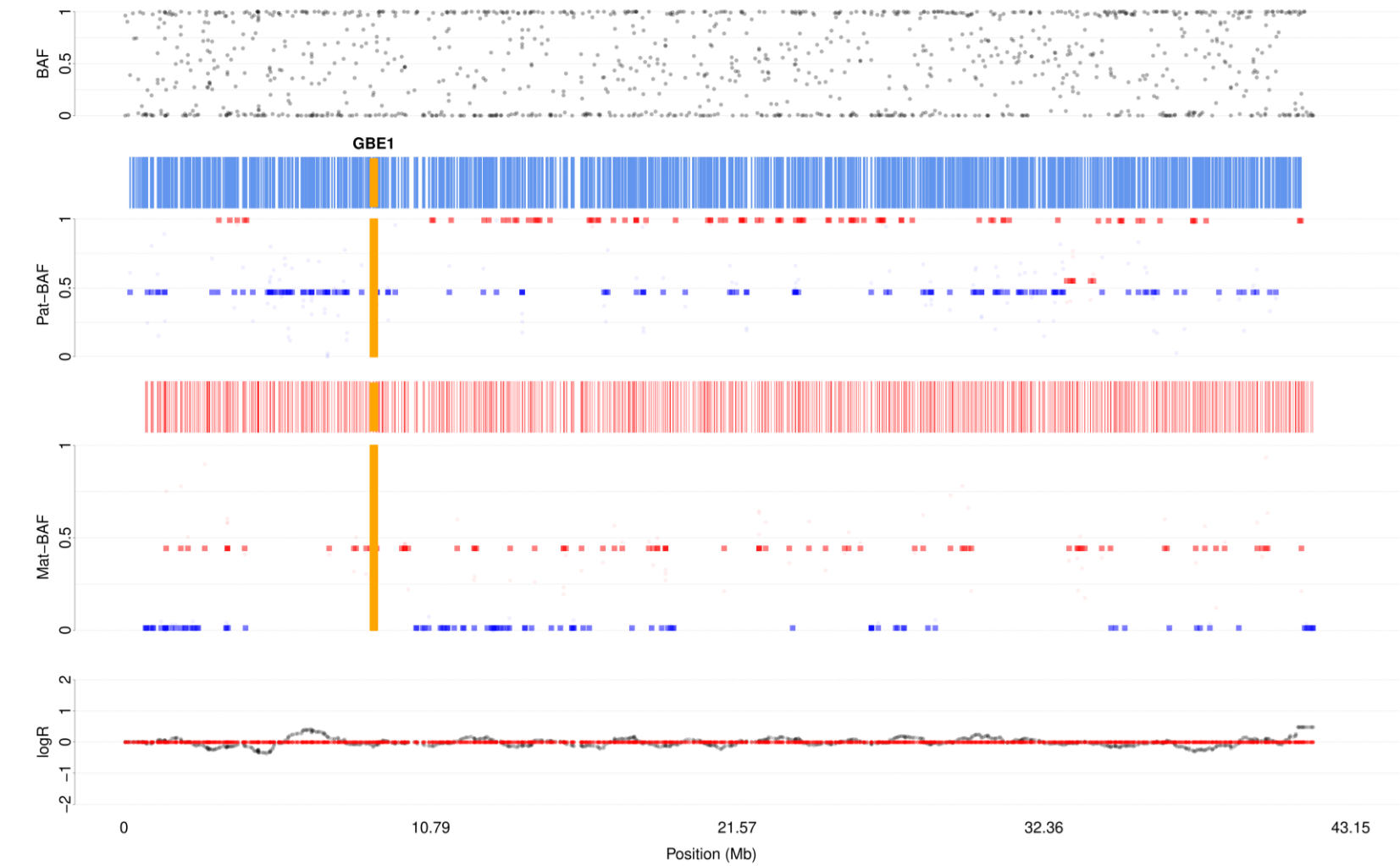
Mare02_Embryo02_Biopsy_Chromosome25



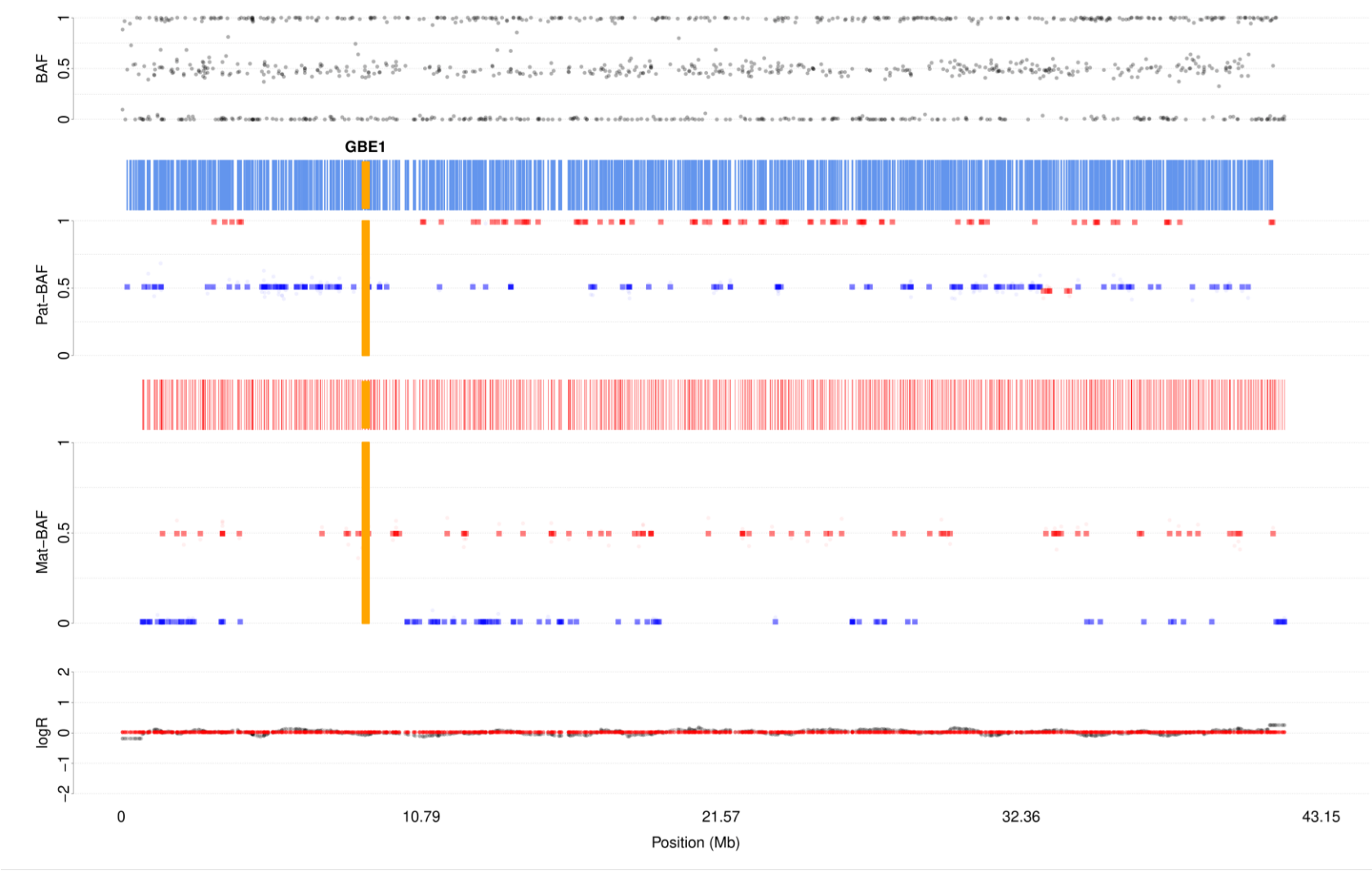
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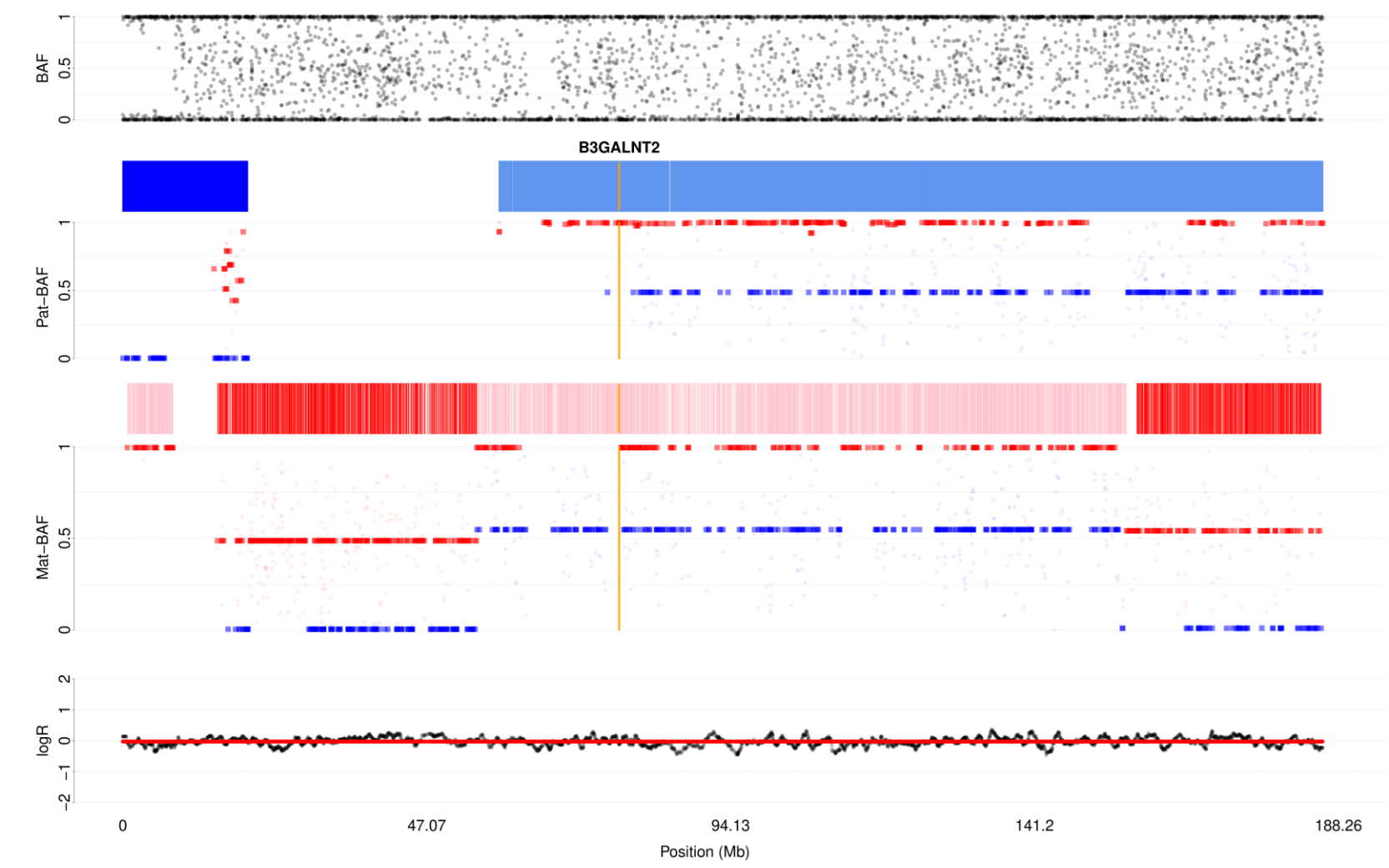
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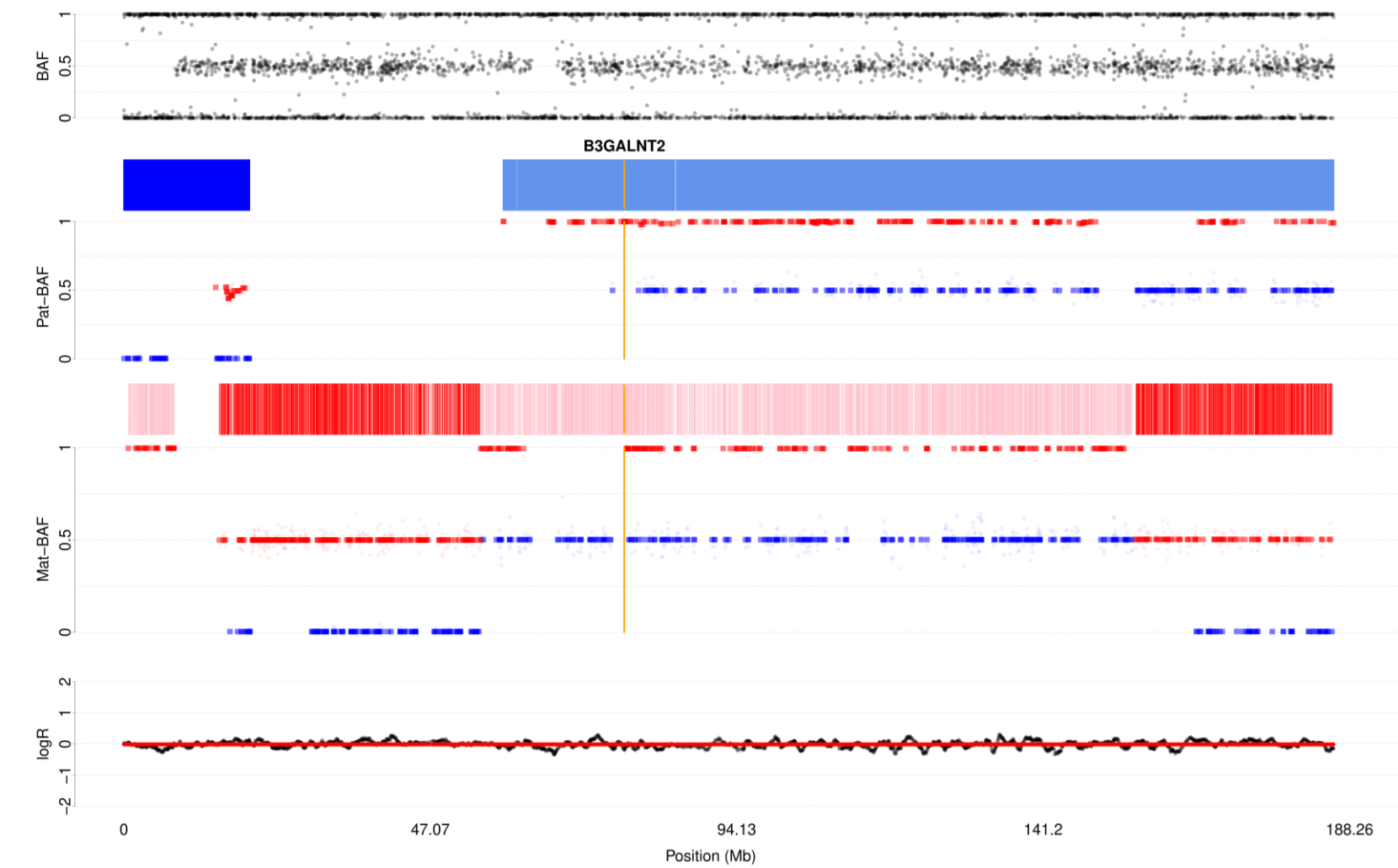
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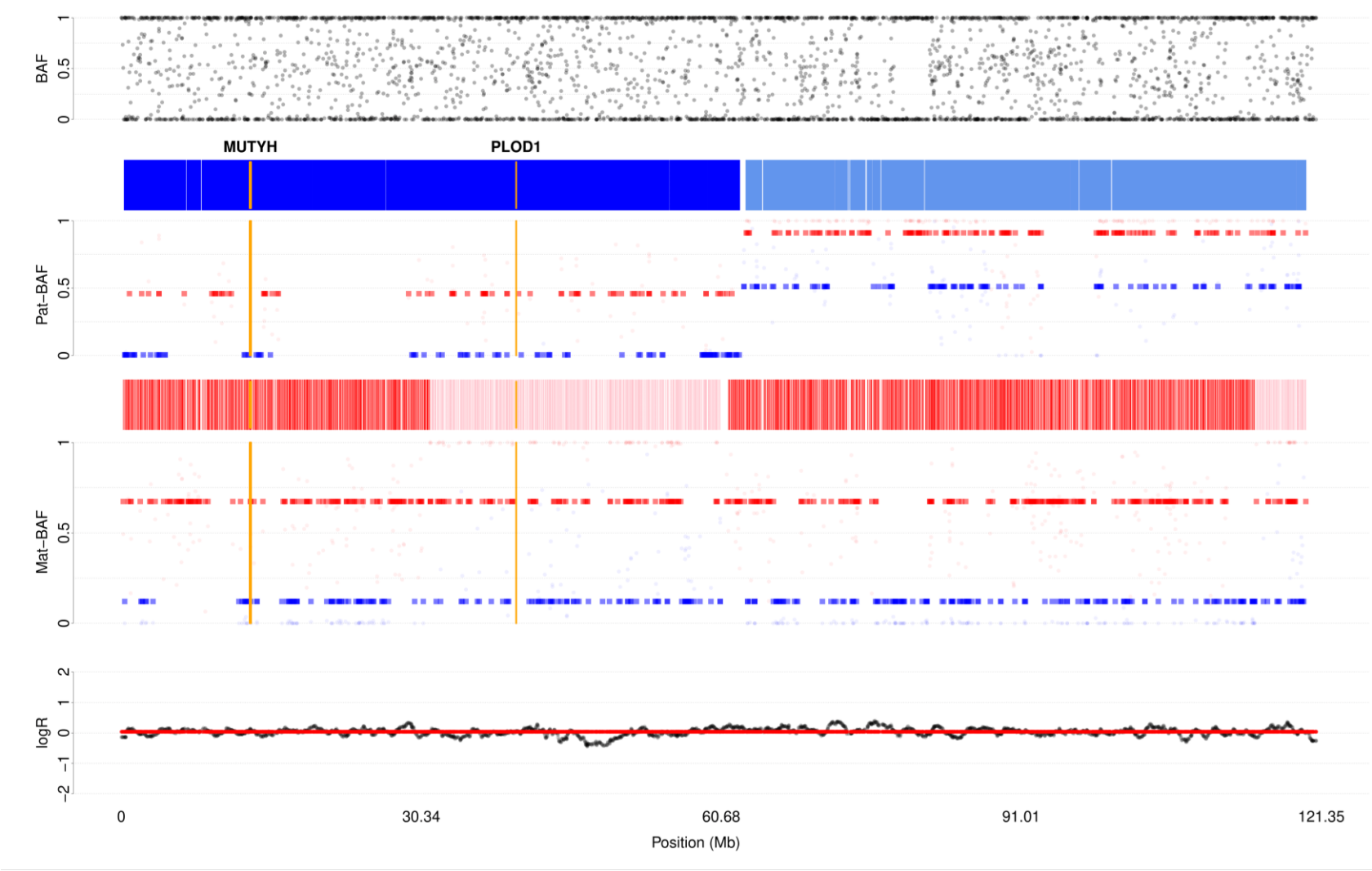
Mare02_Embryo03_Biopsy_Chromosome01



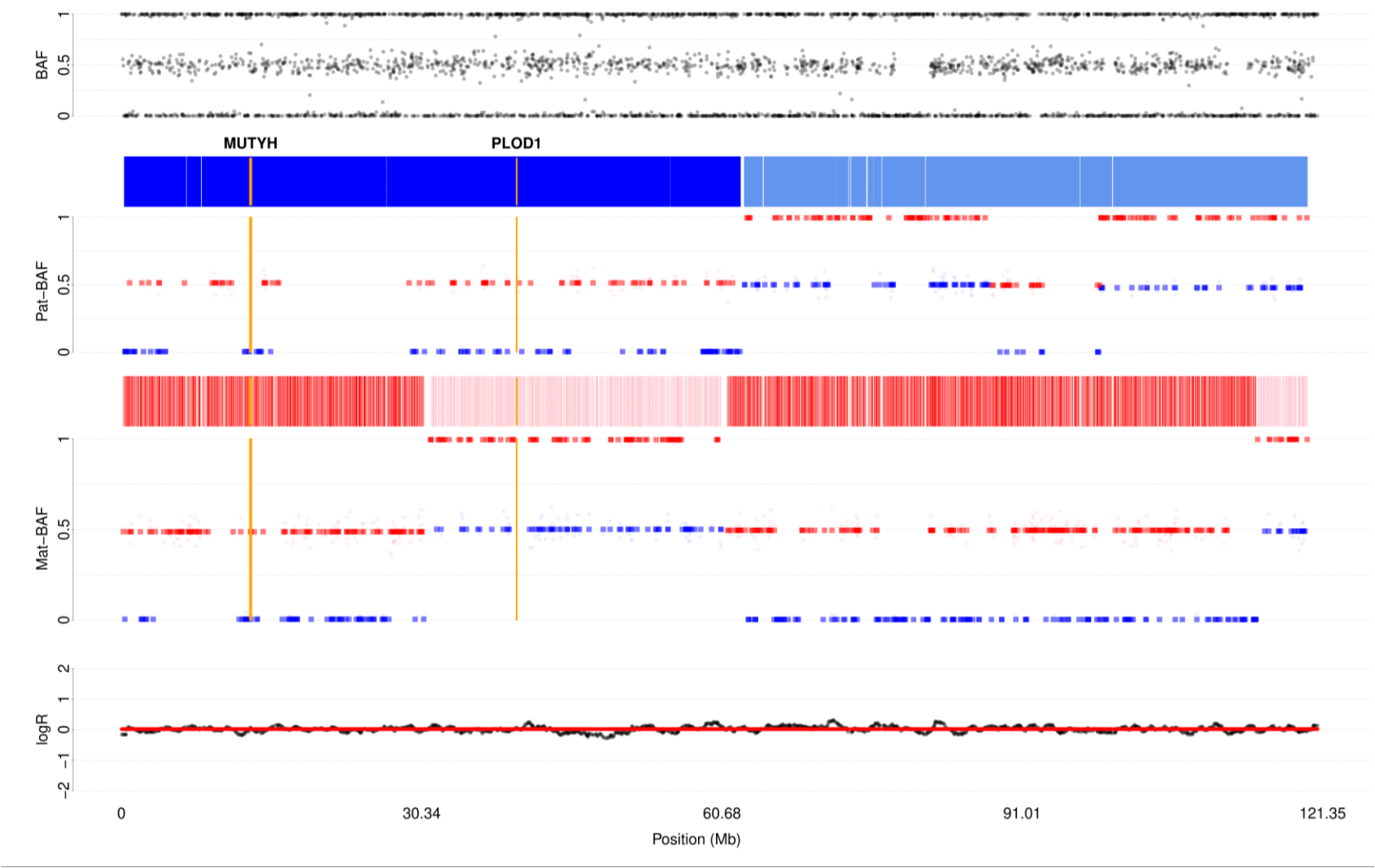
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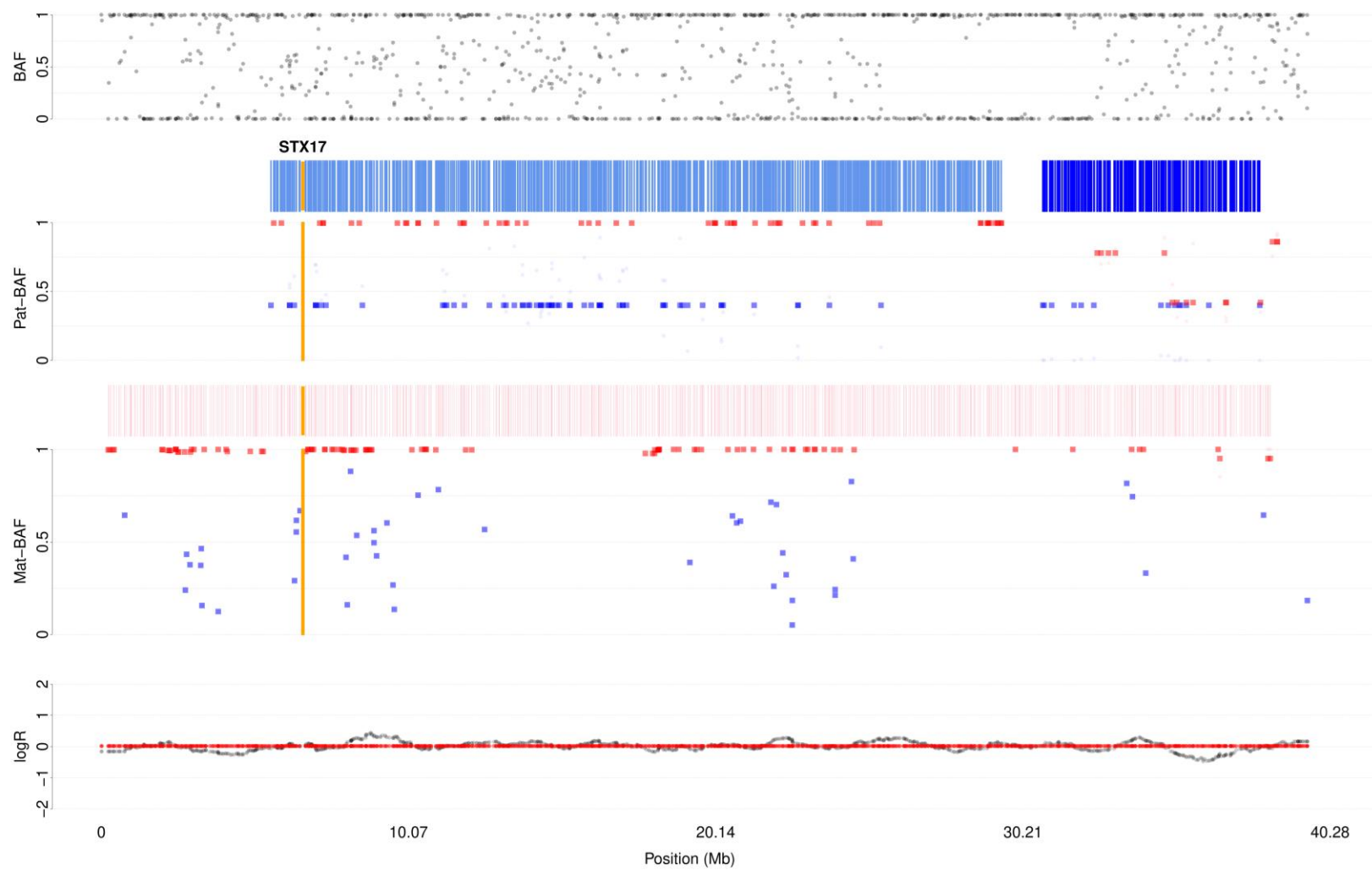
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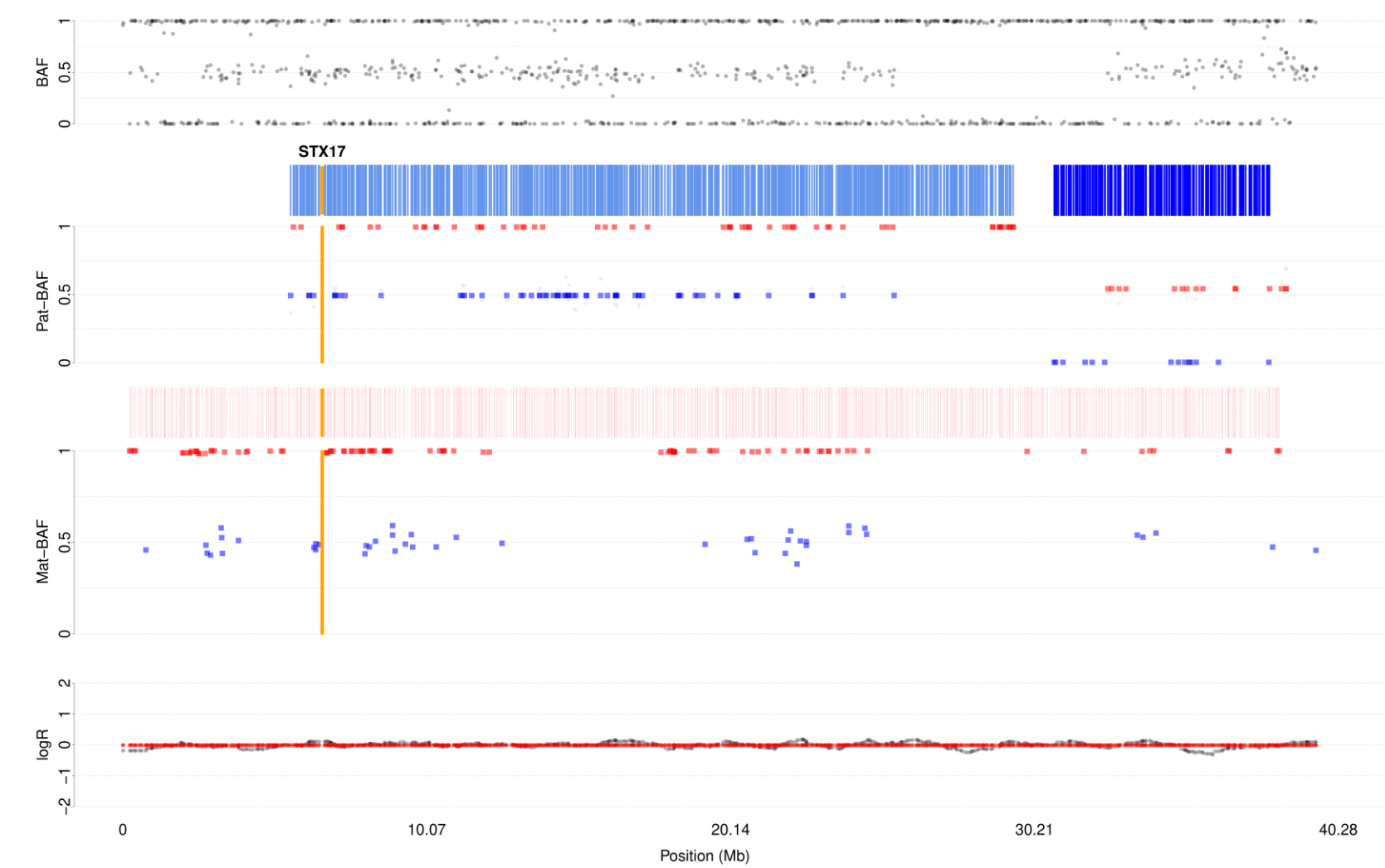
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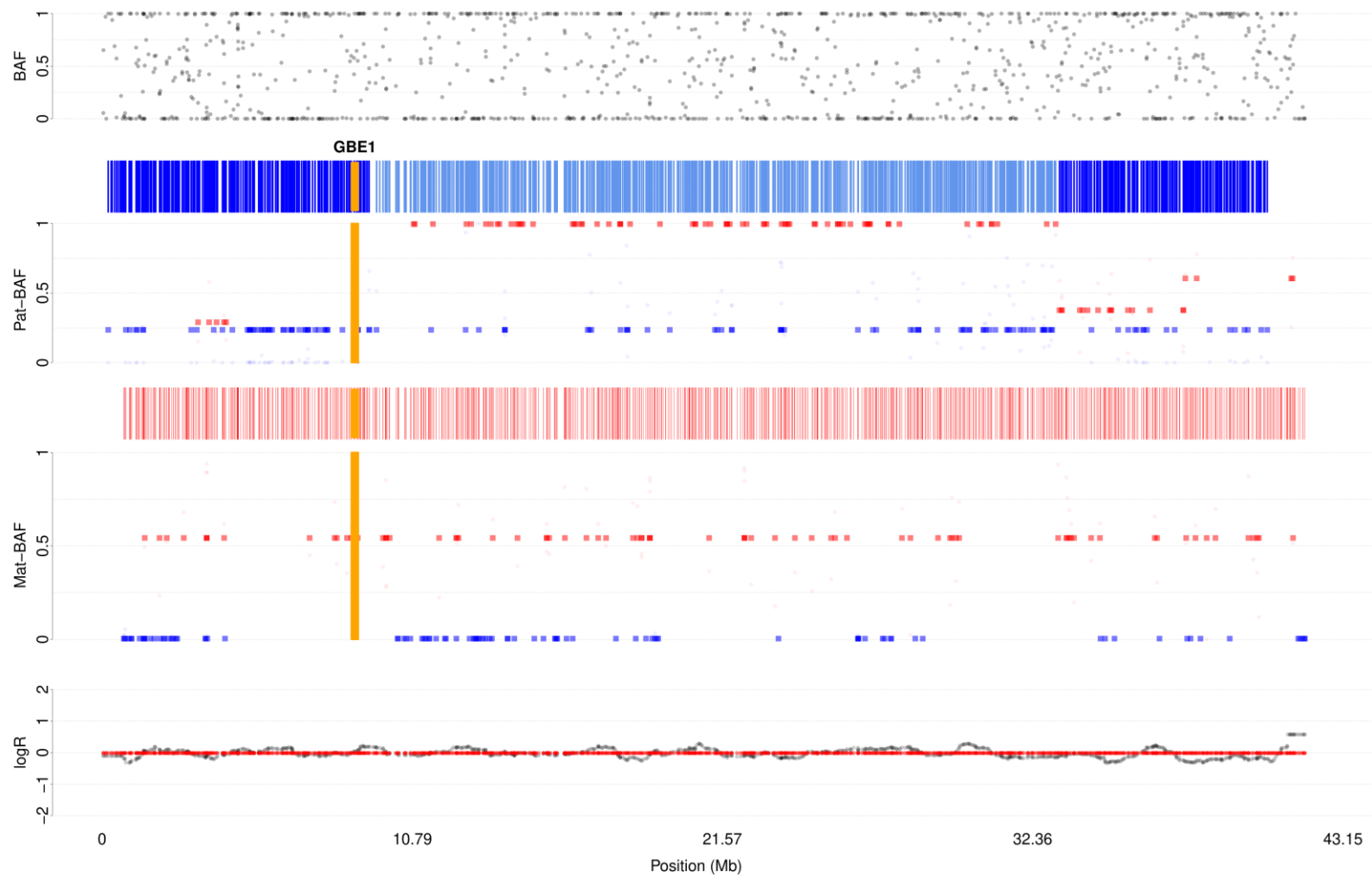
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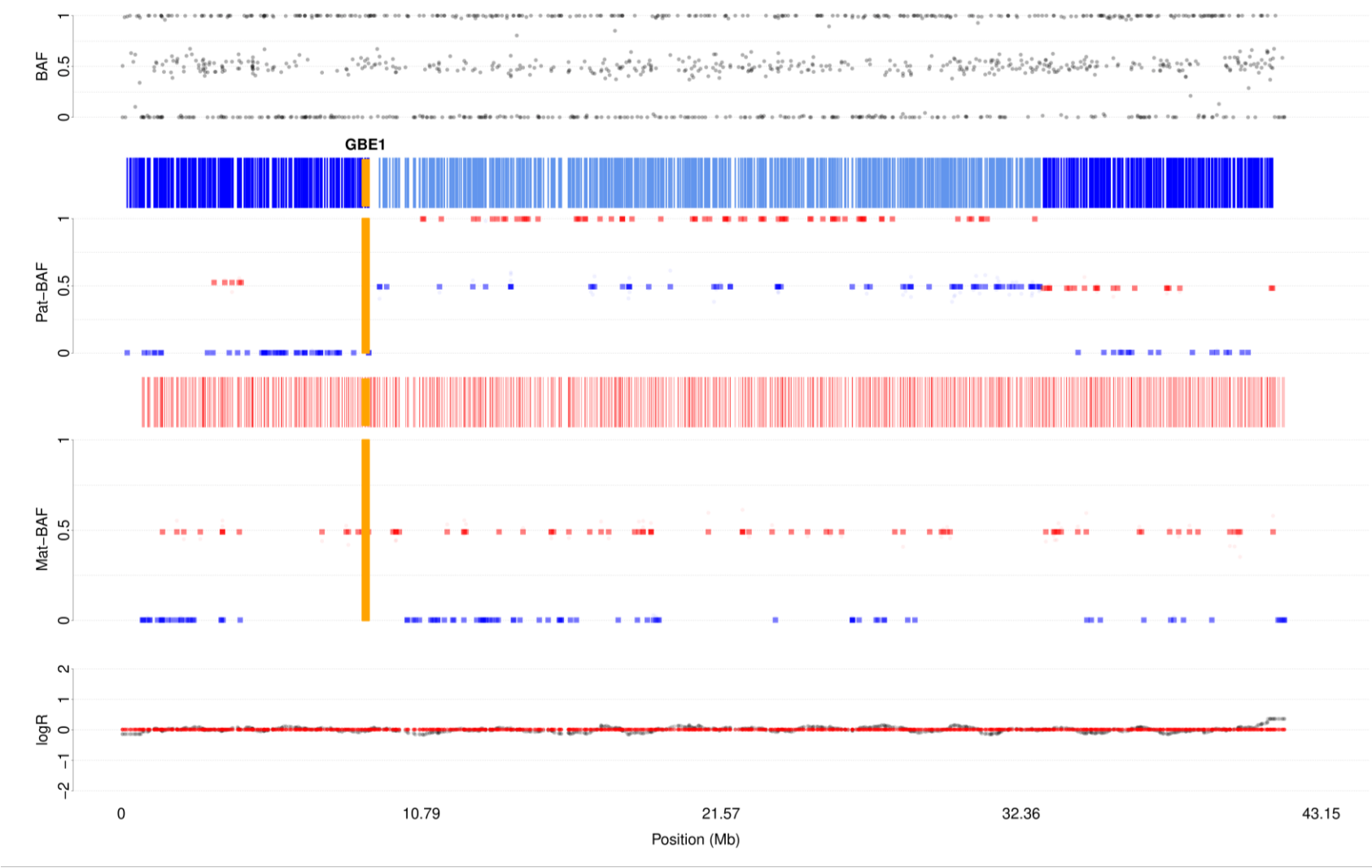
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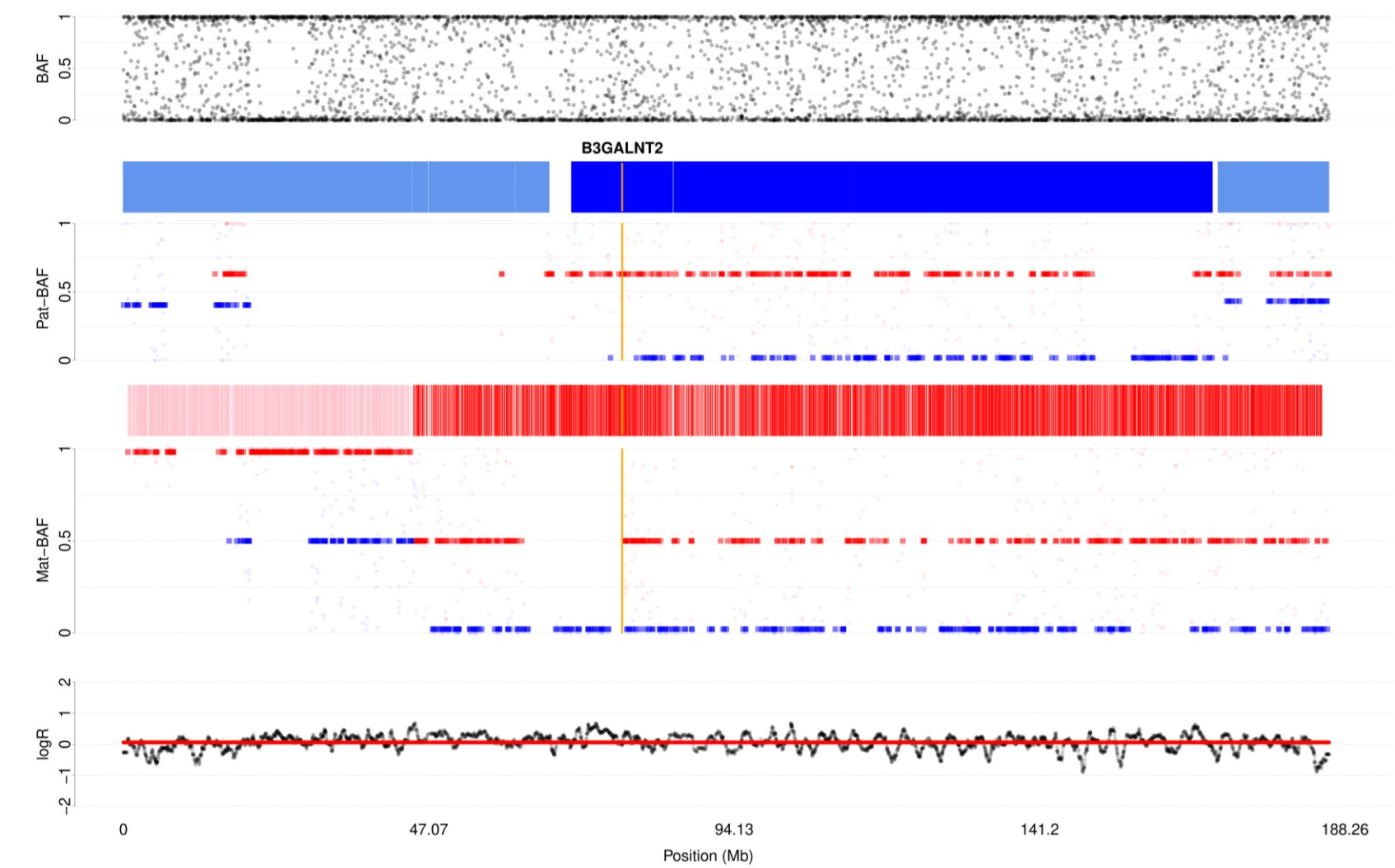
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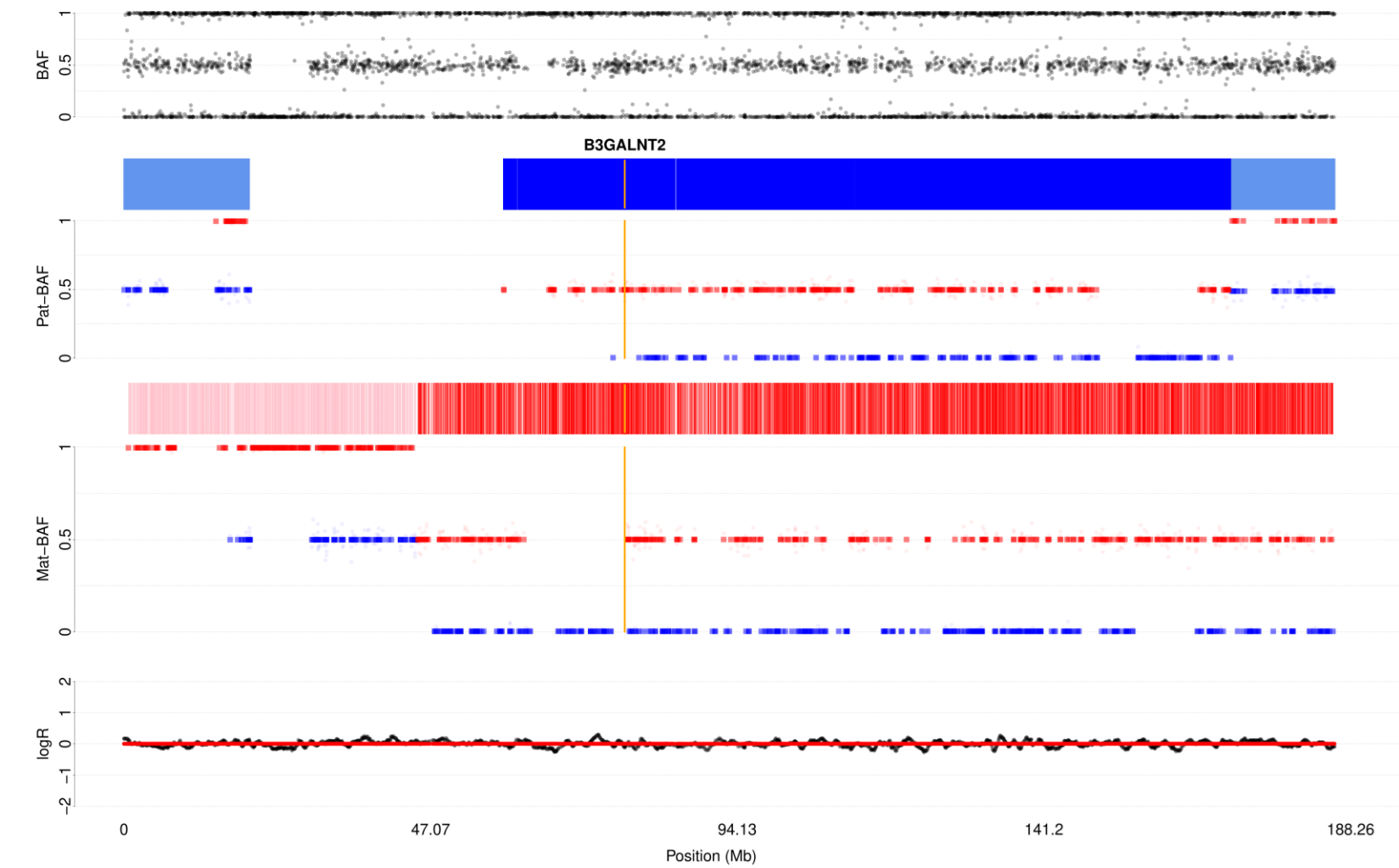
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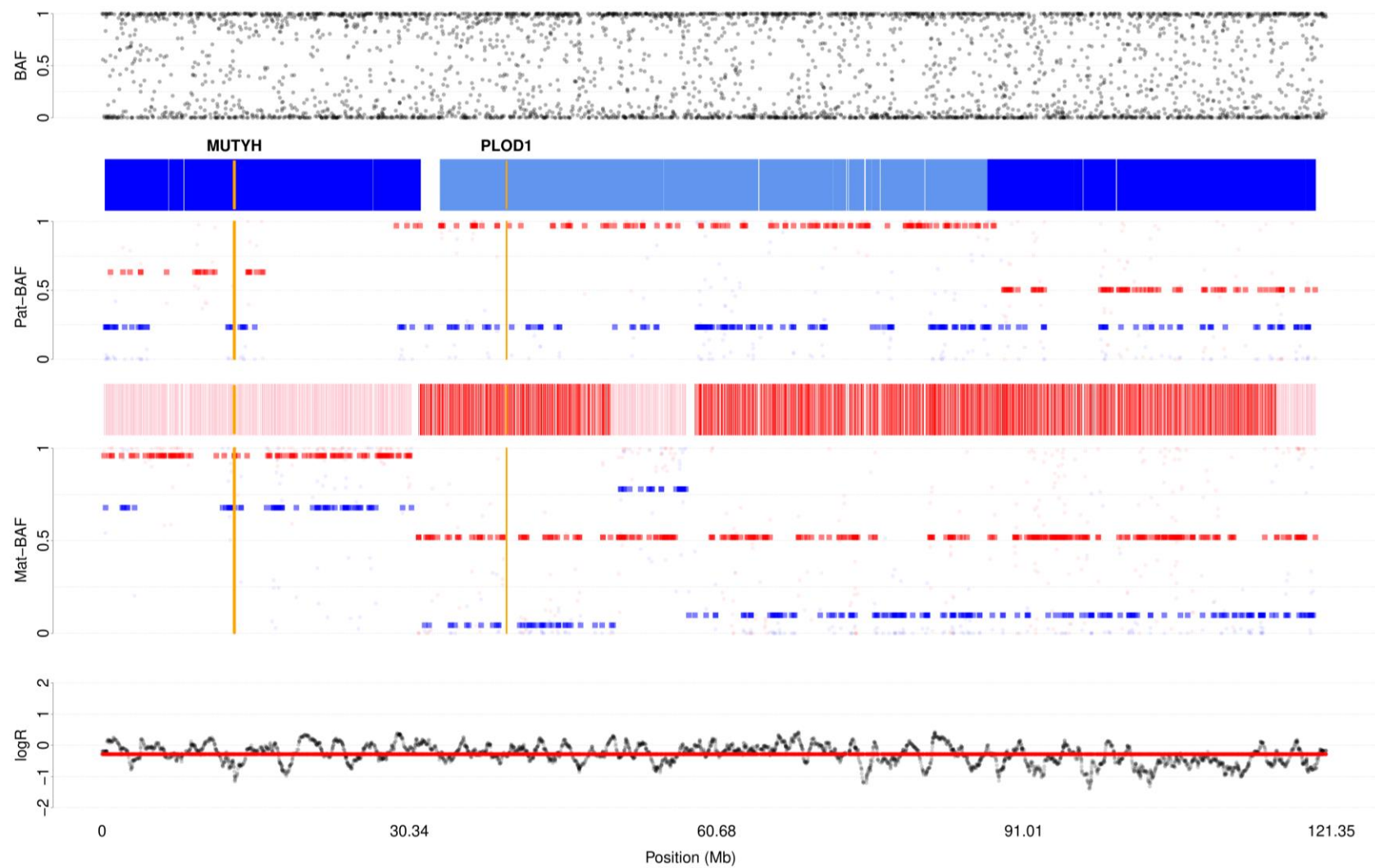
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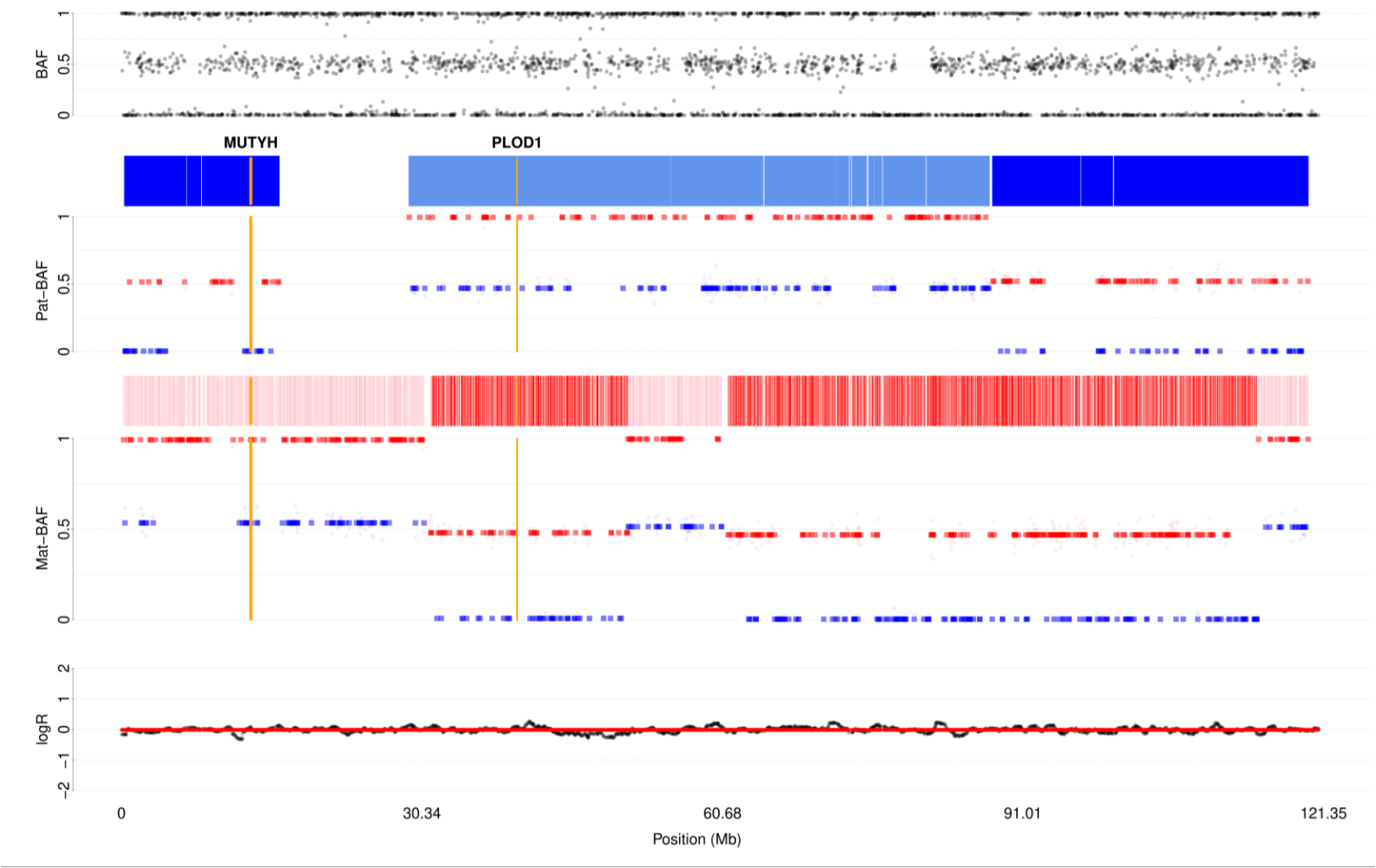
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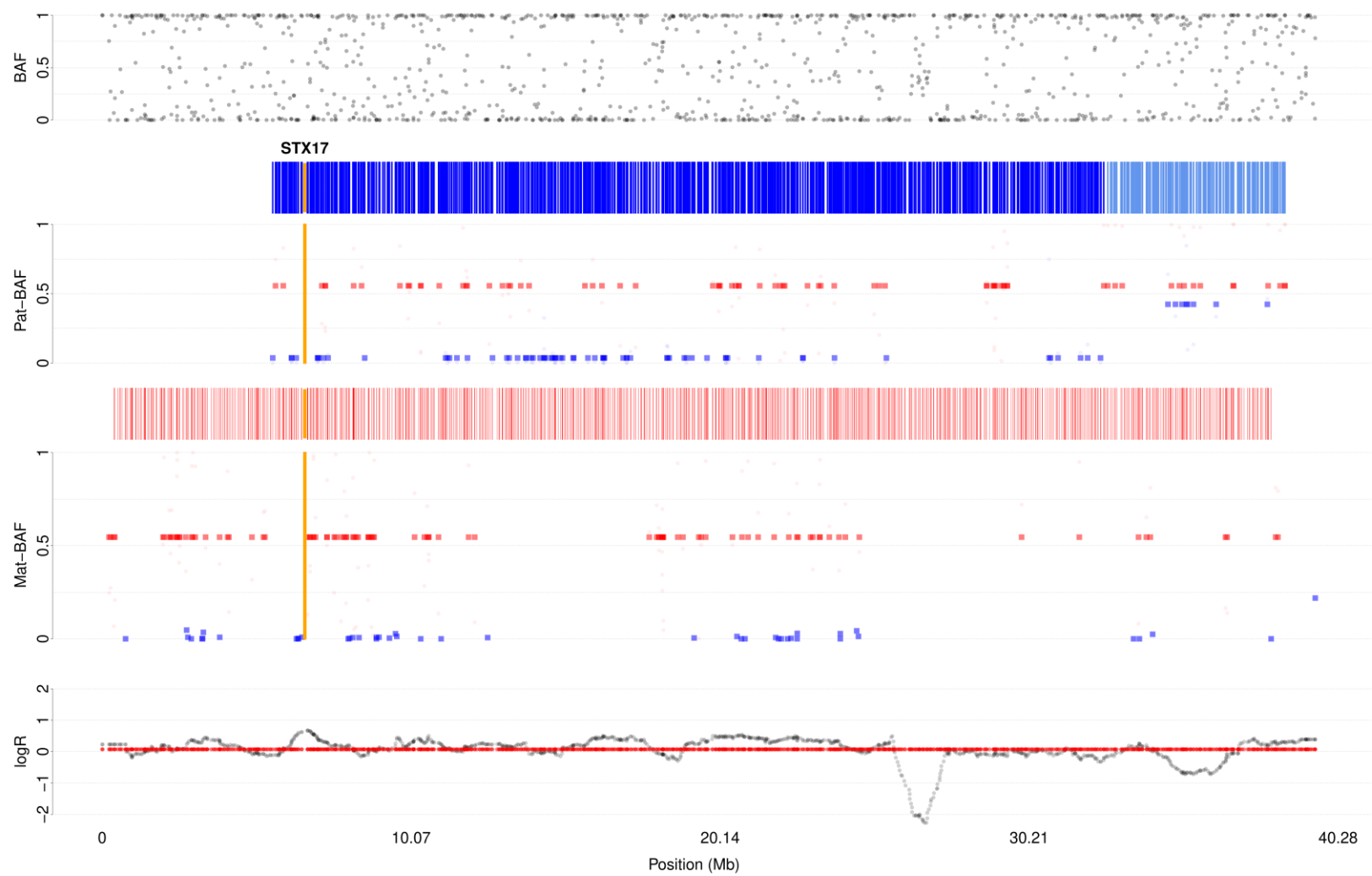
Mare02_Embryo05_Biopsy_Chromosome02



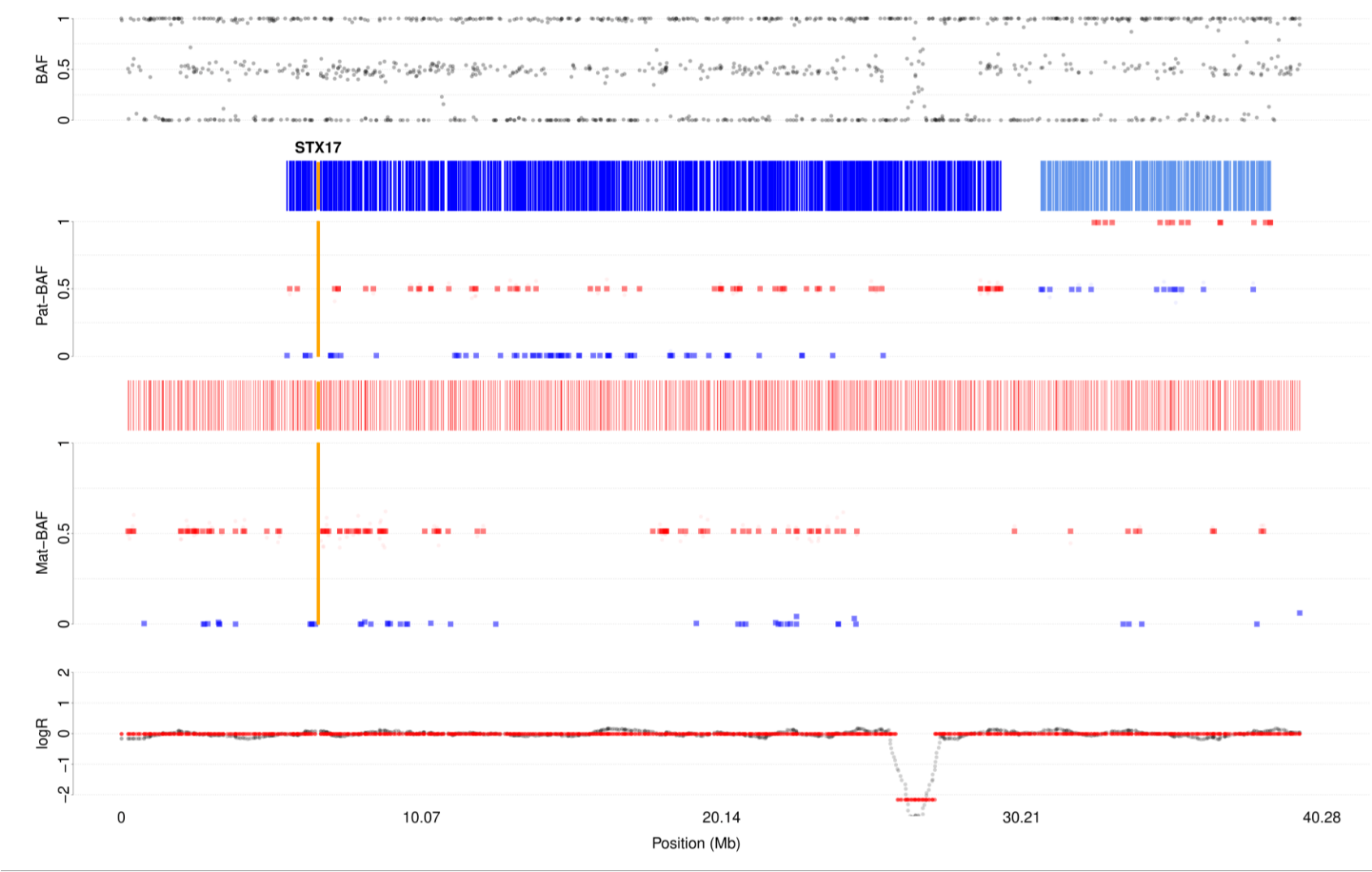
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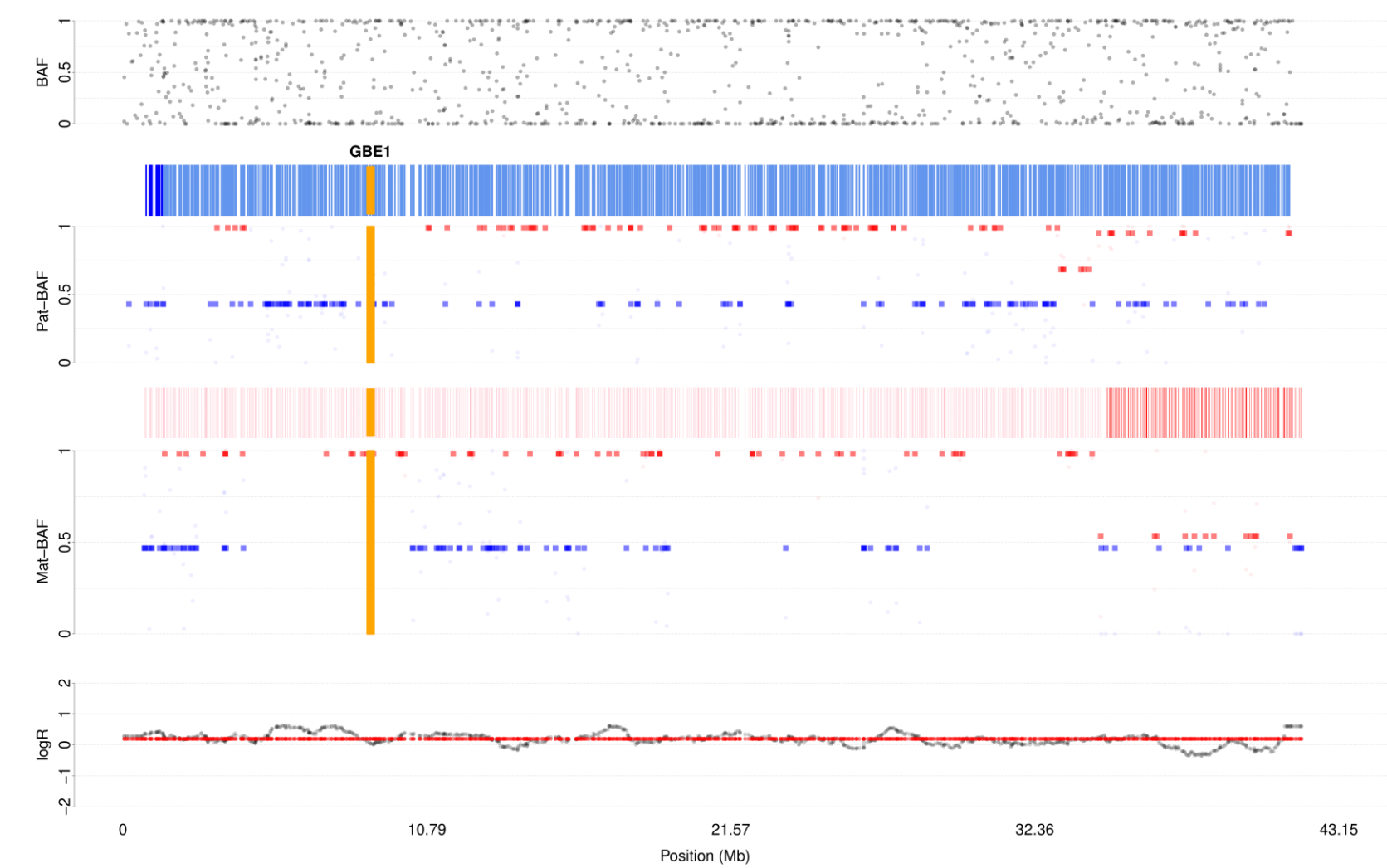
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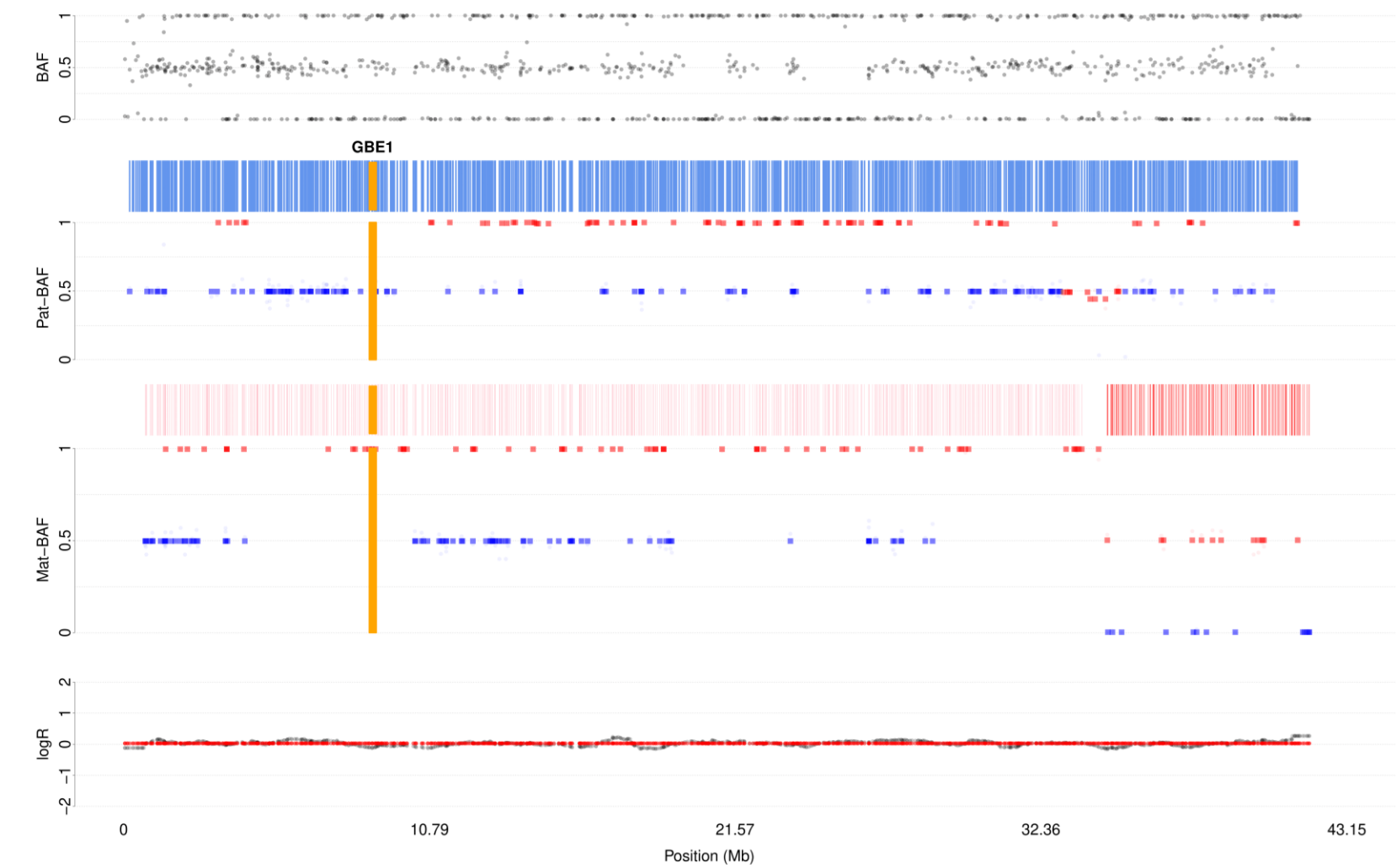
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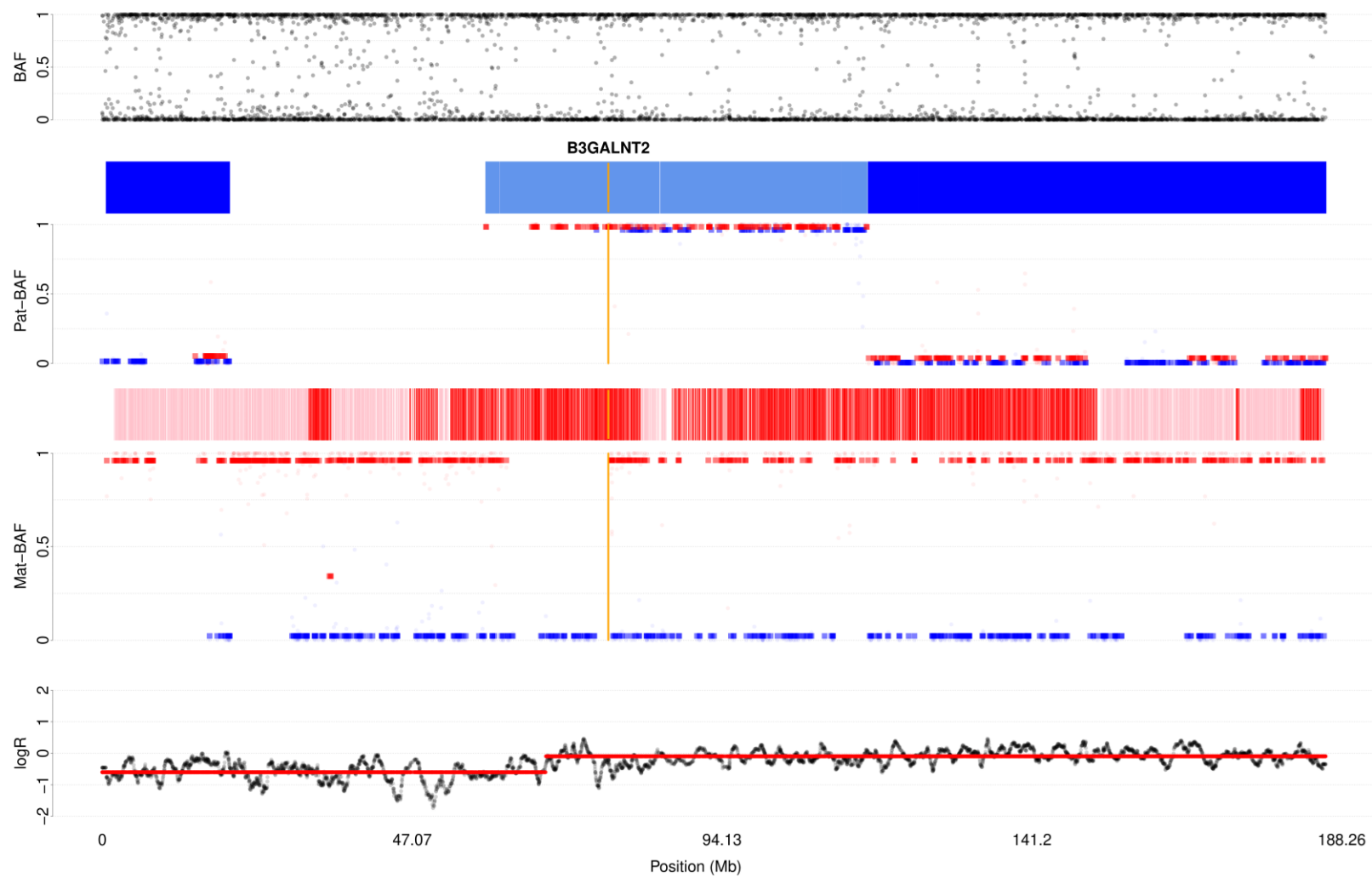
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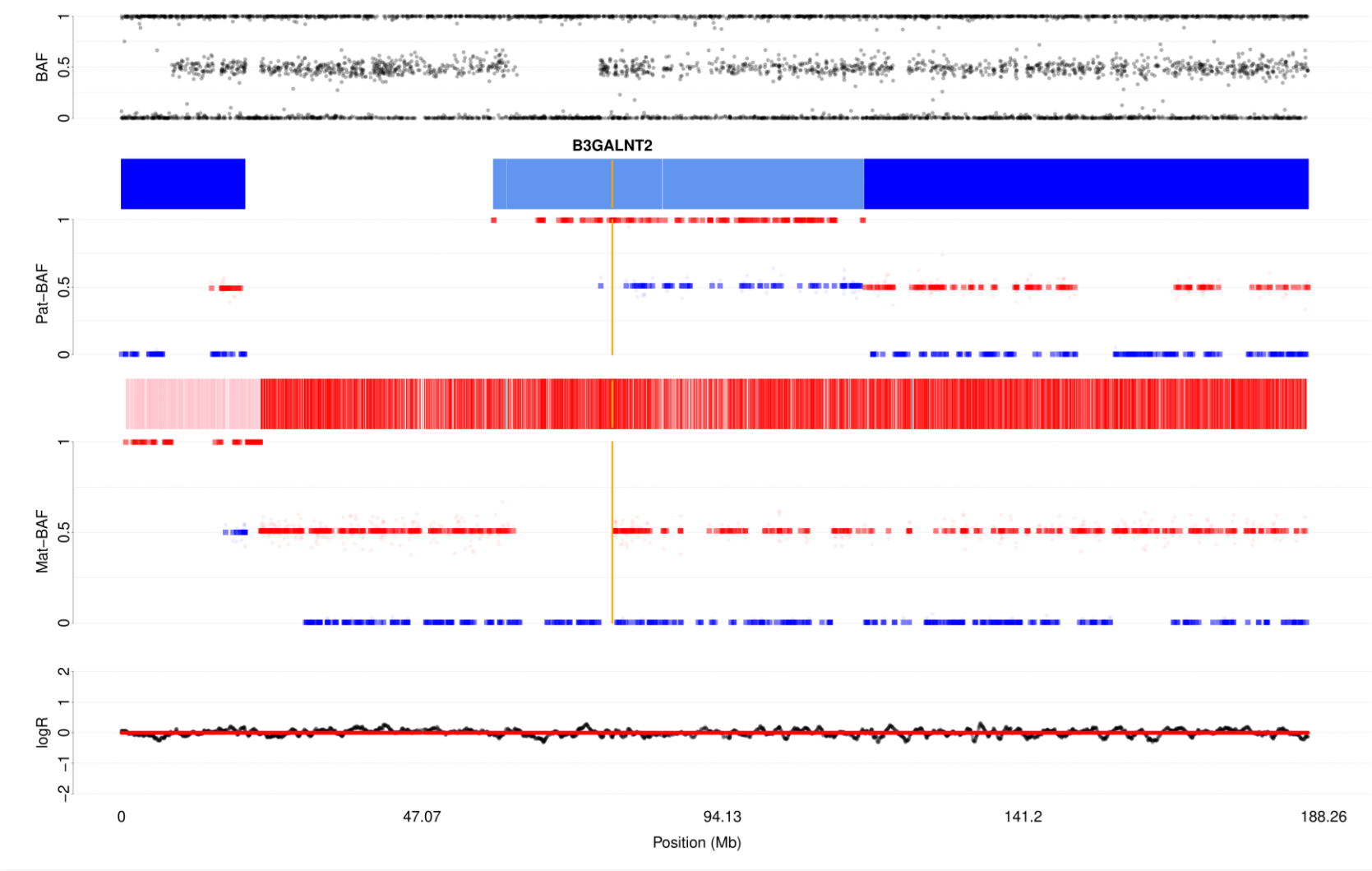
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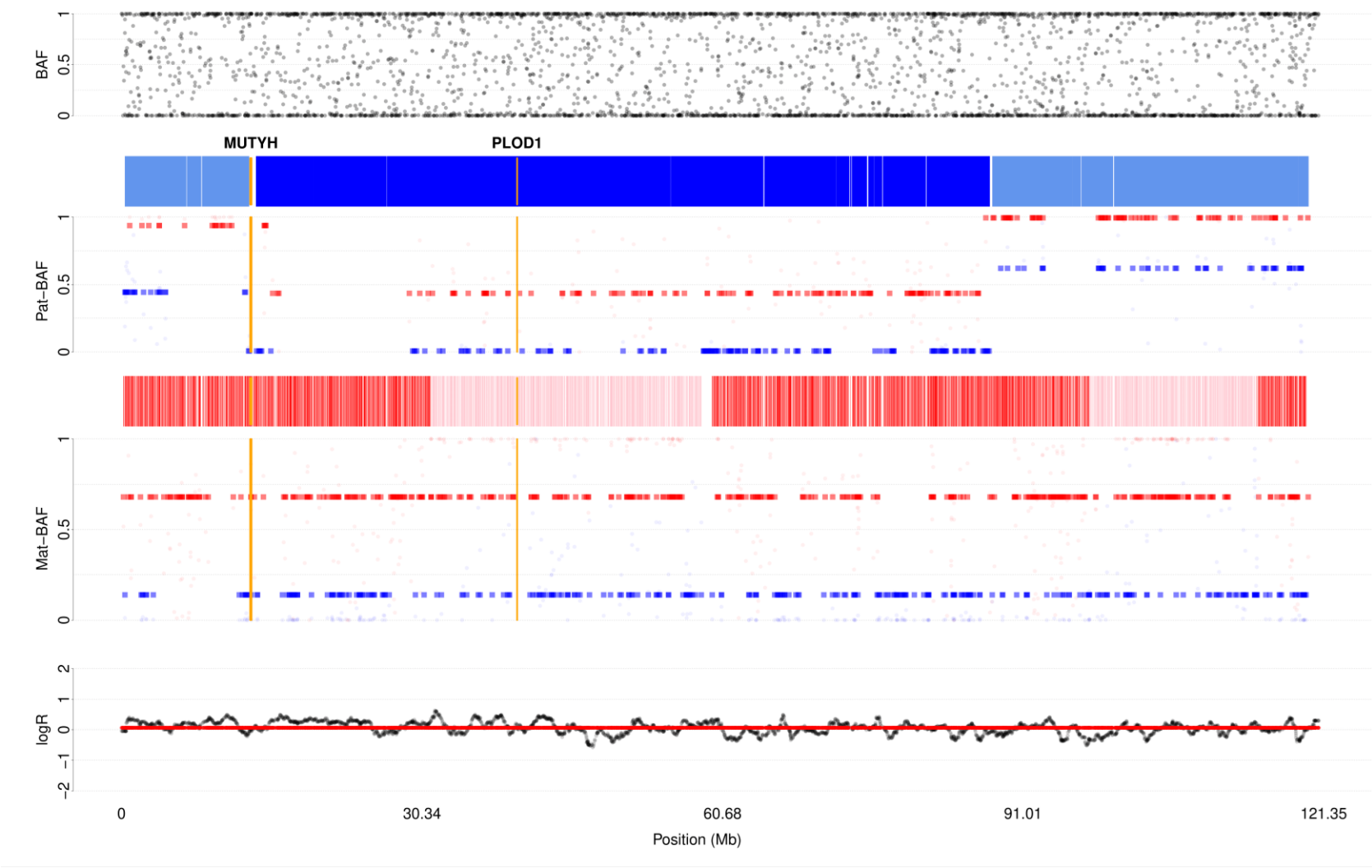
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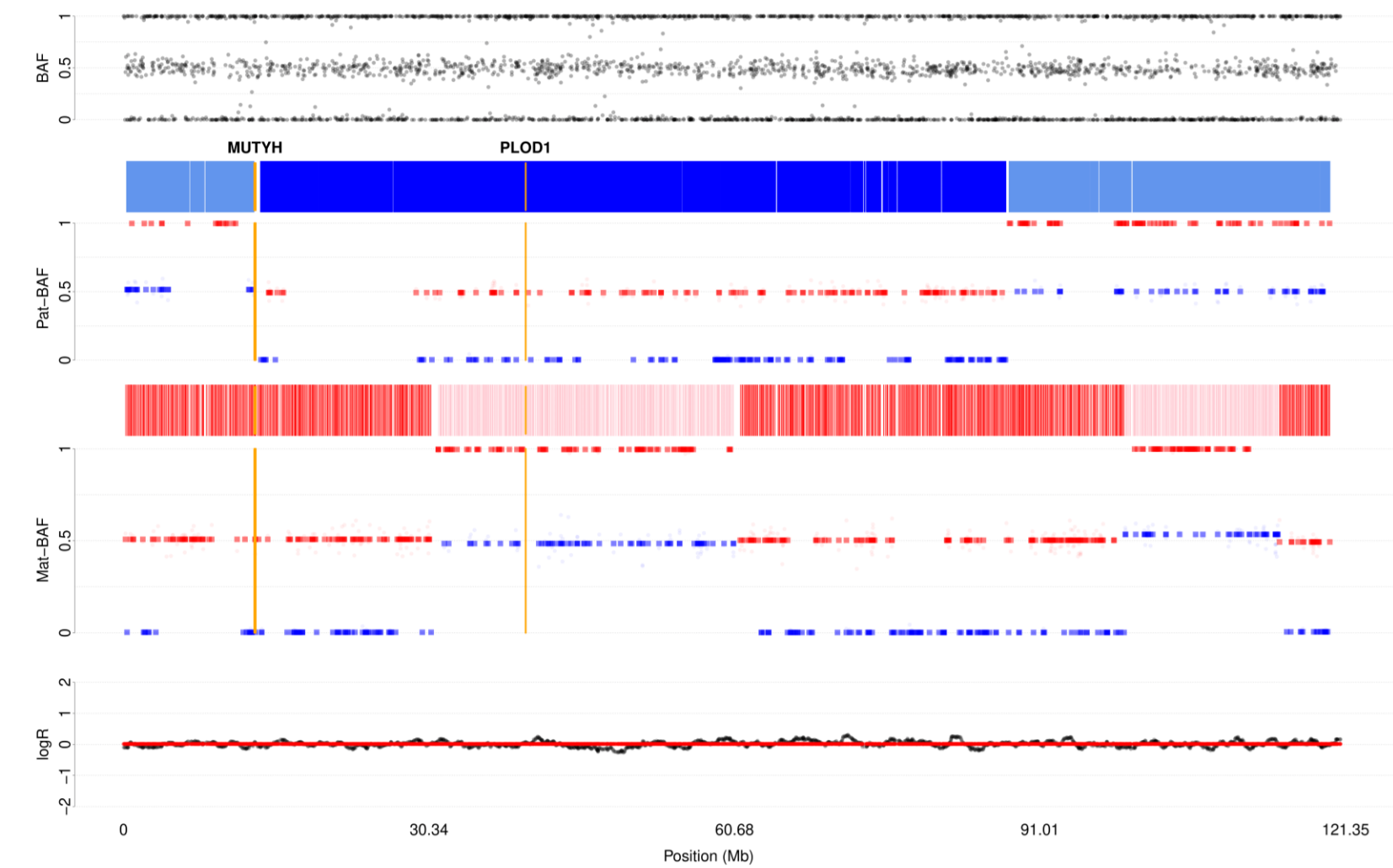
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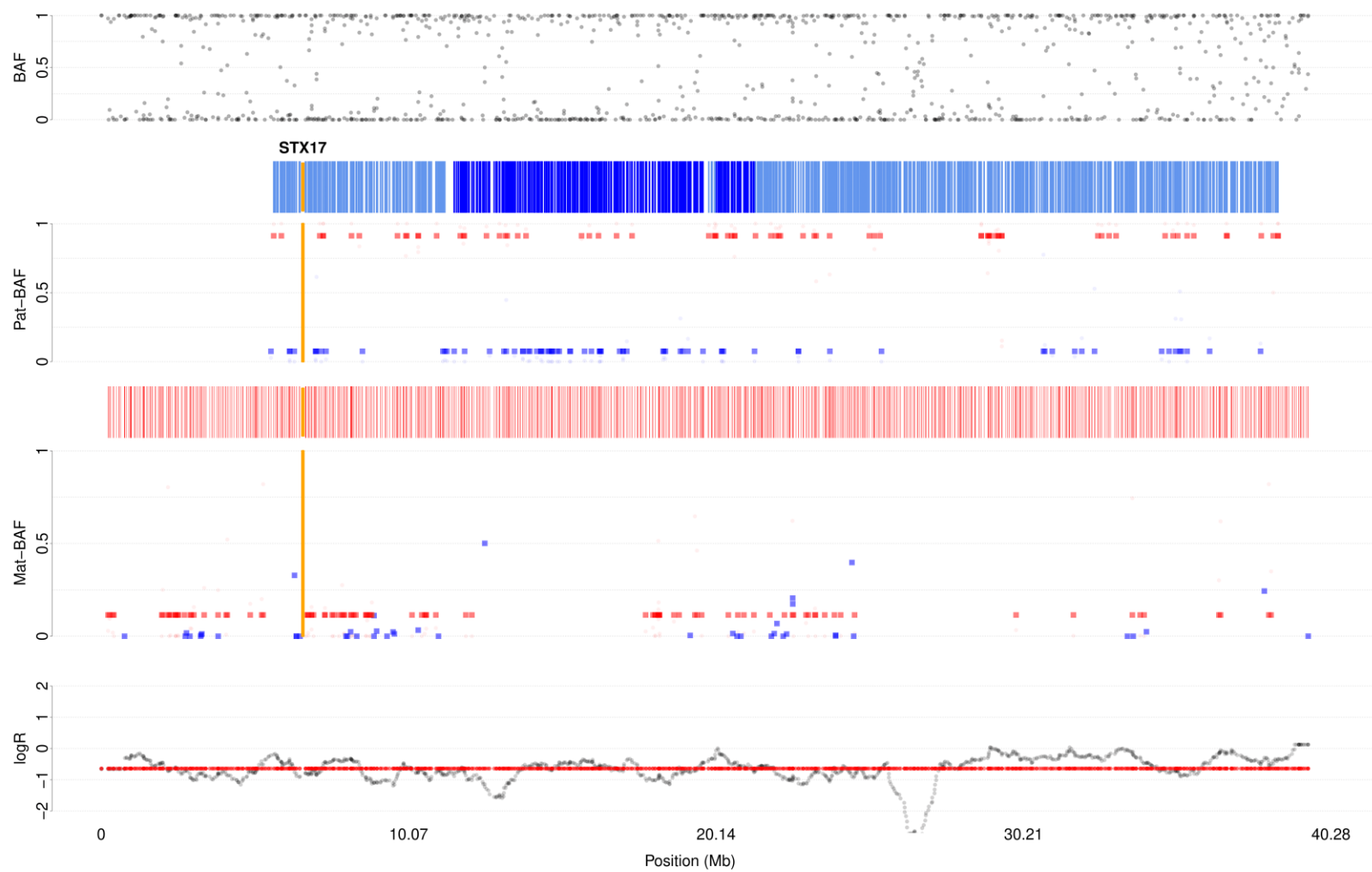
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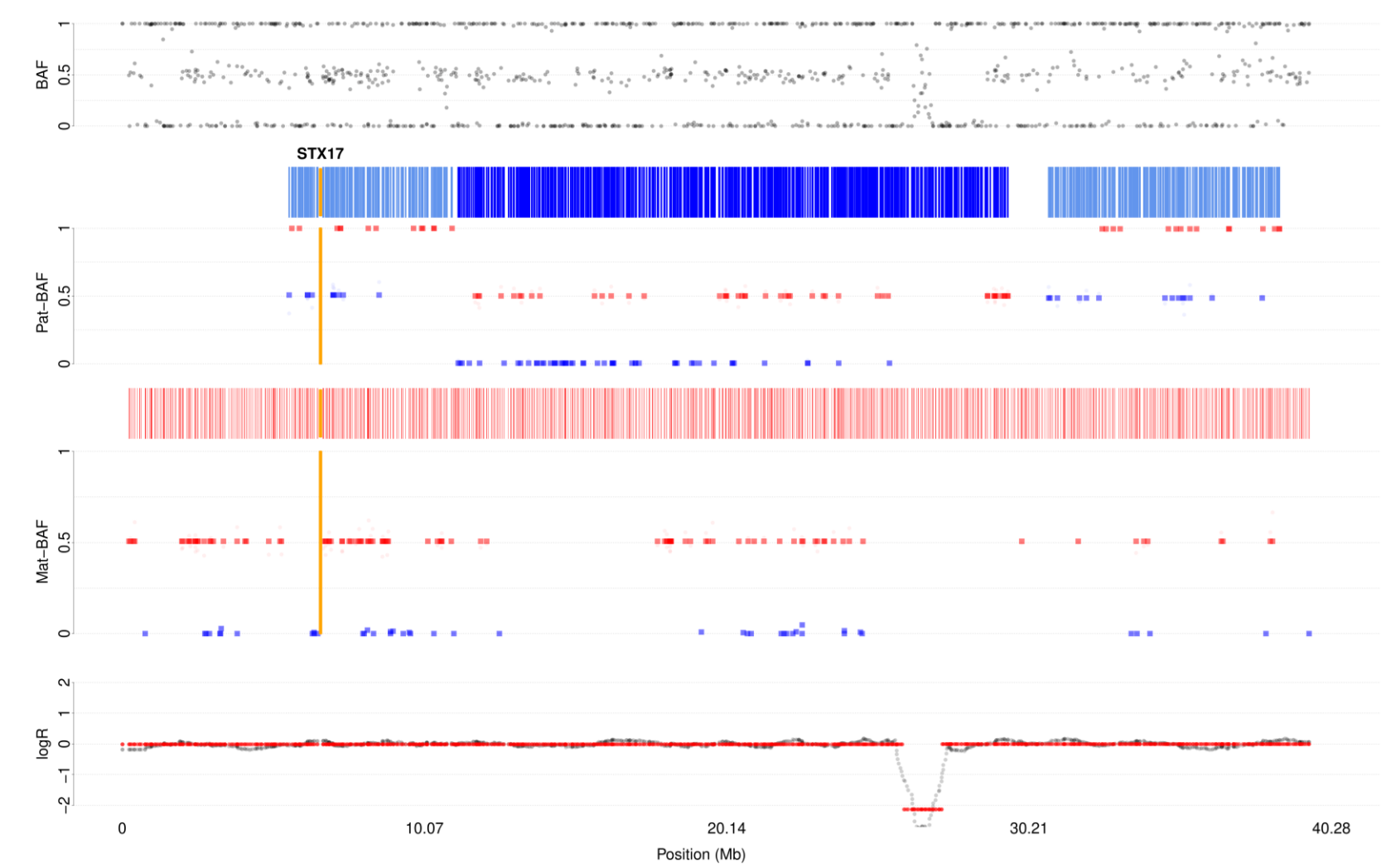
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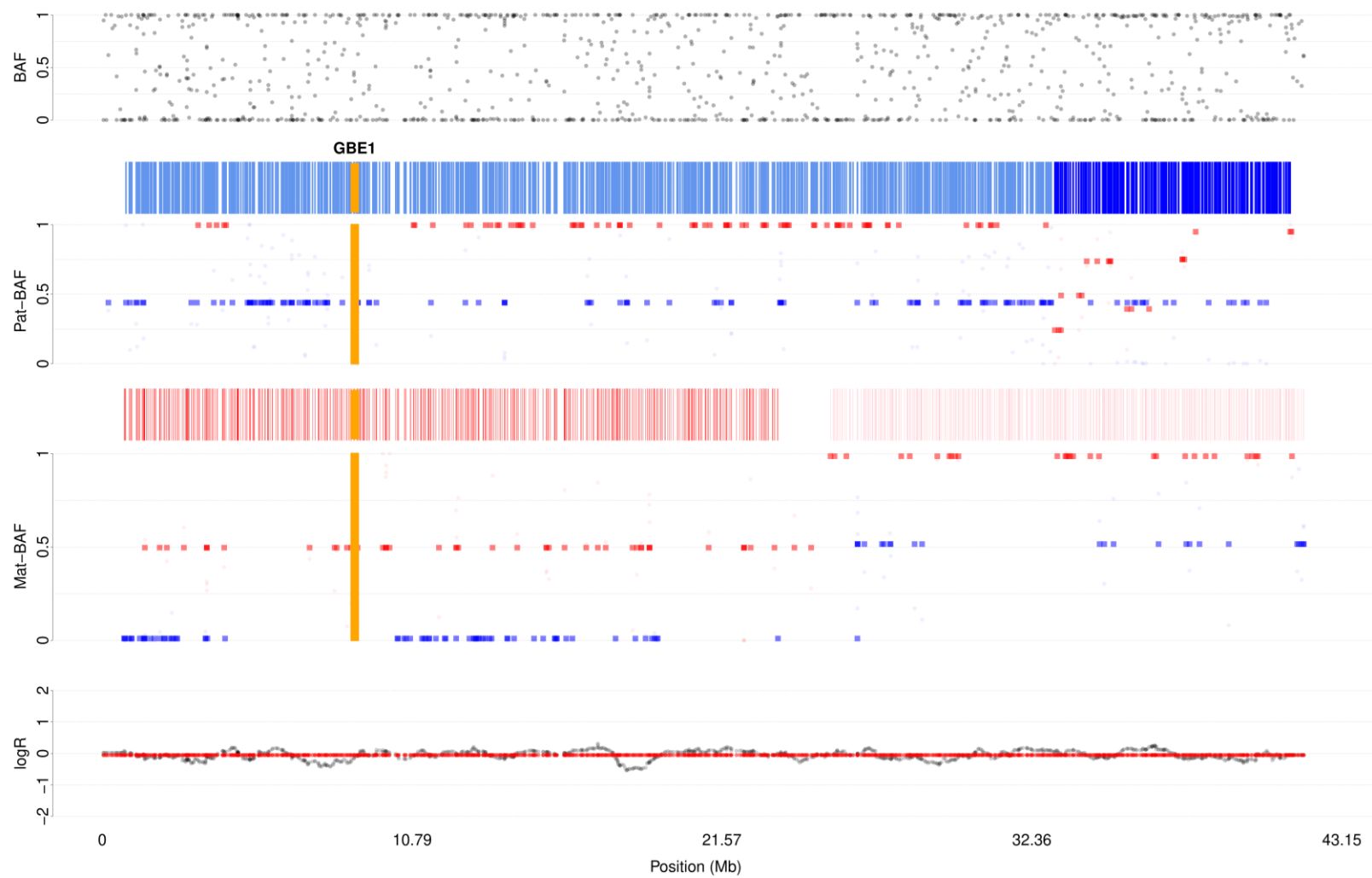
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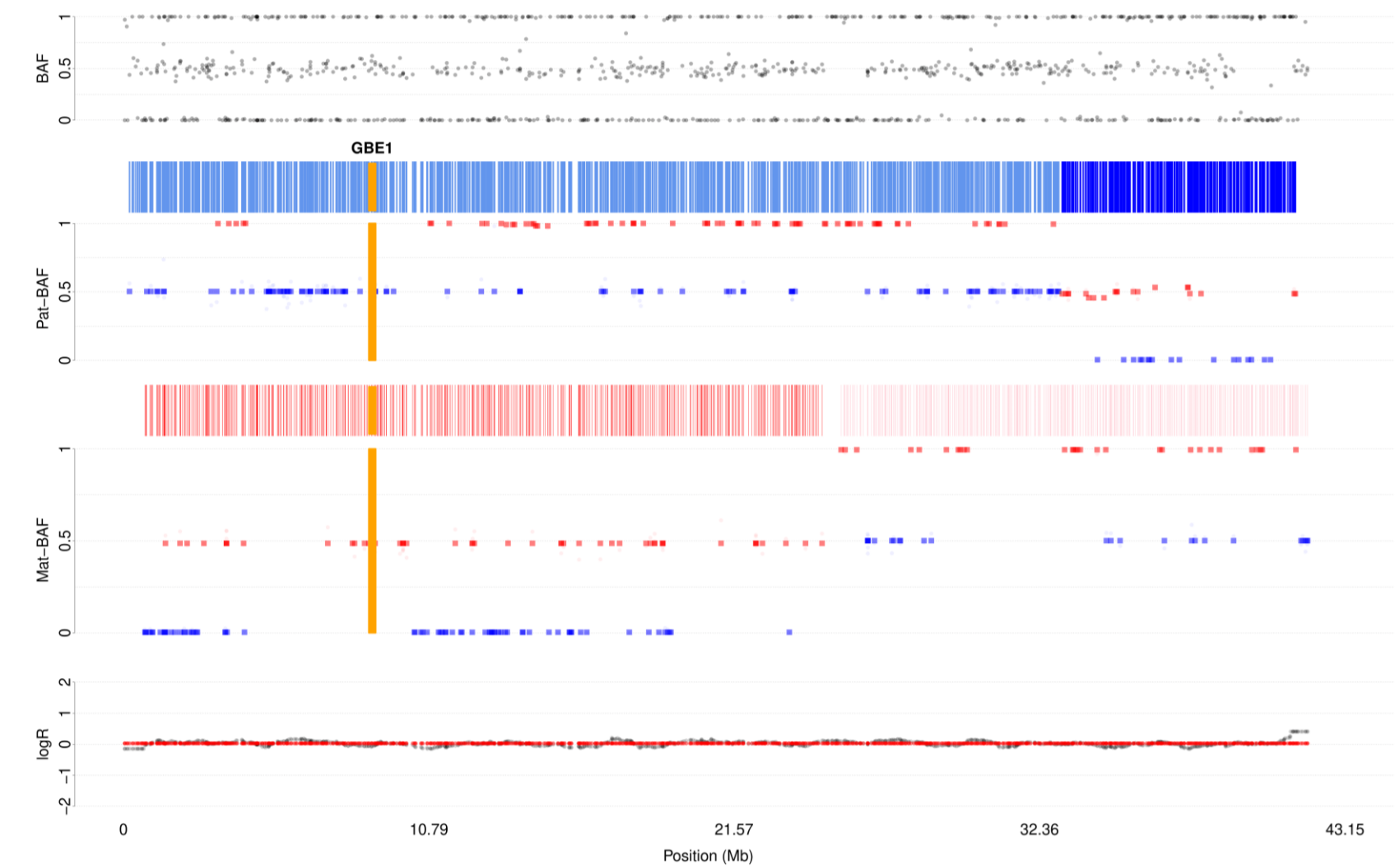
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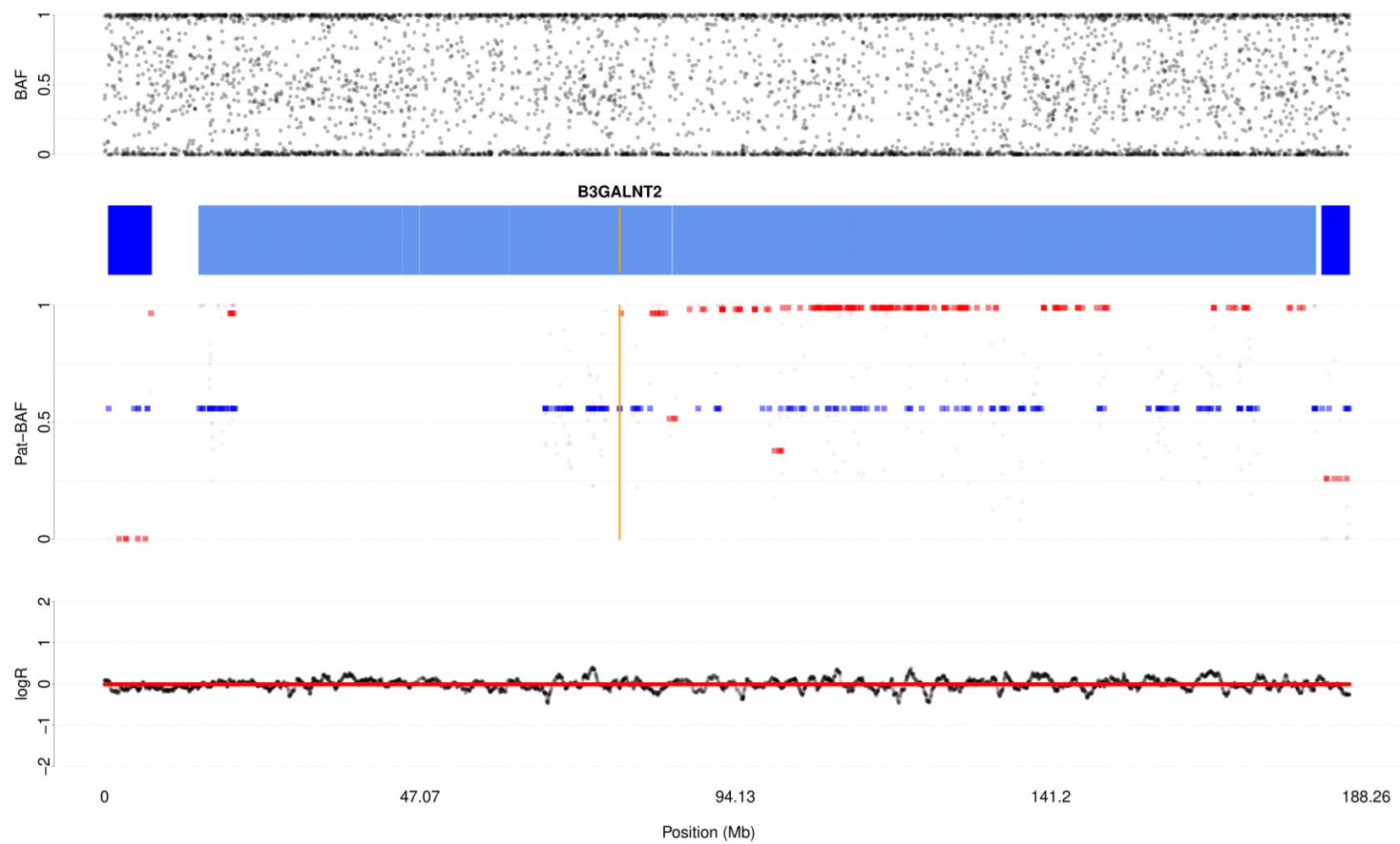
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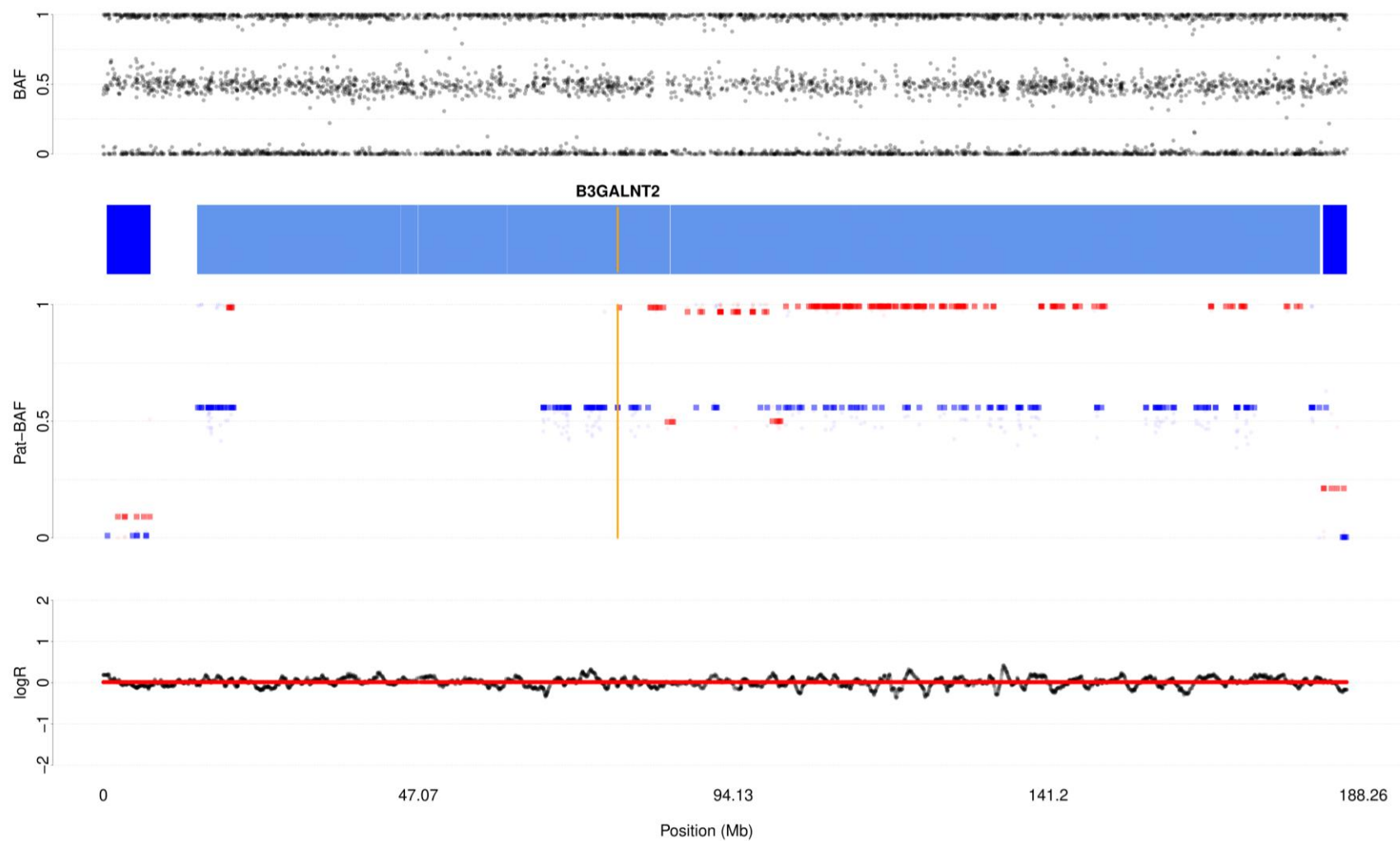
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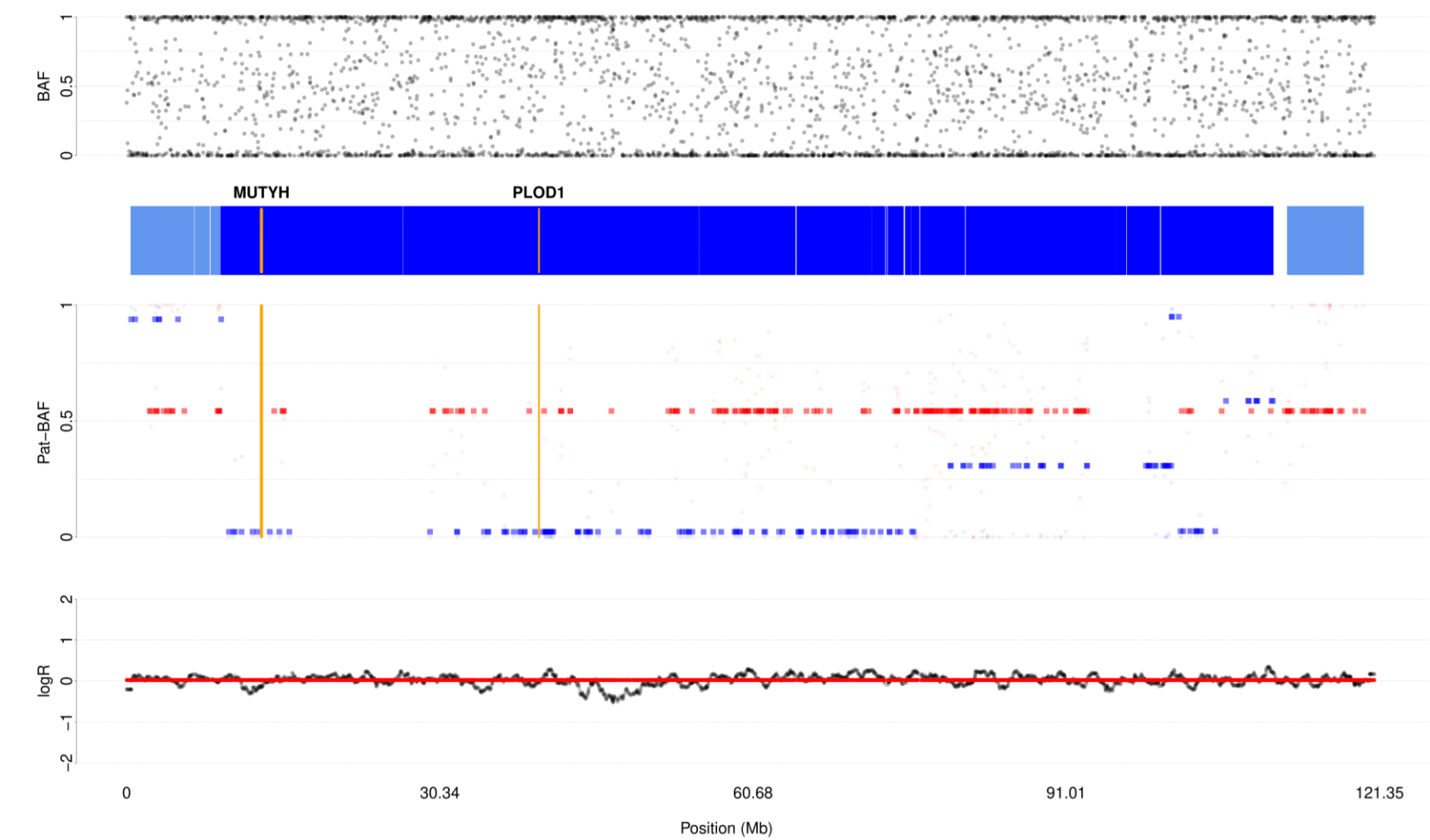
Mare03_Embryo01_Biopsy_Chromosome01



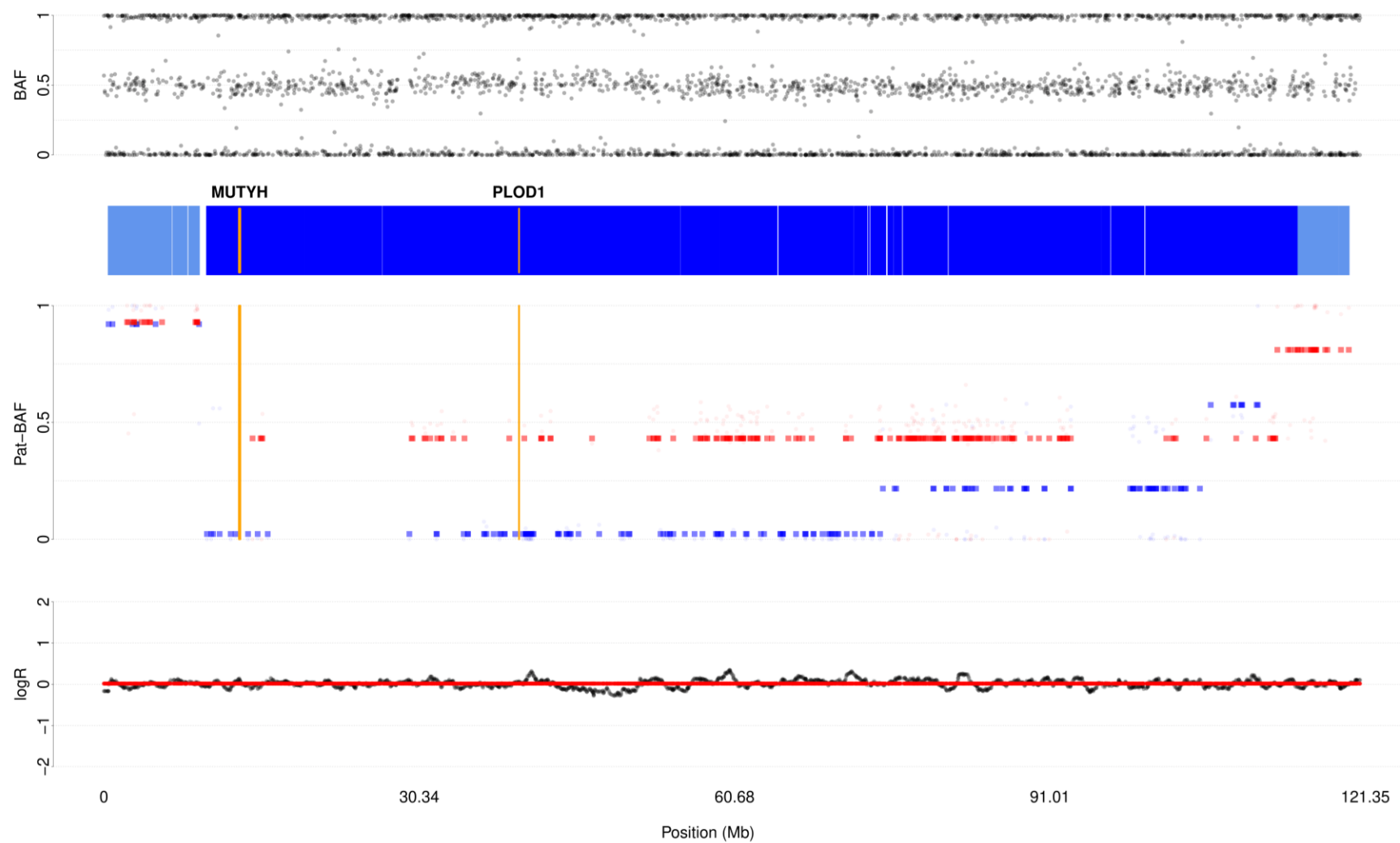
Mare03_Embryo01_Embryo_Chromosome01



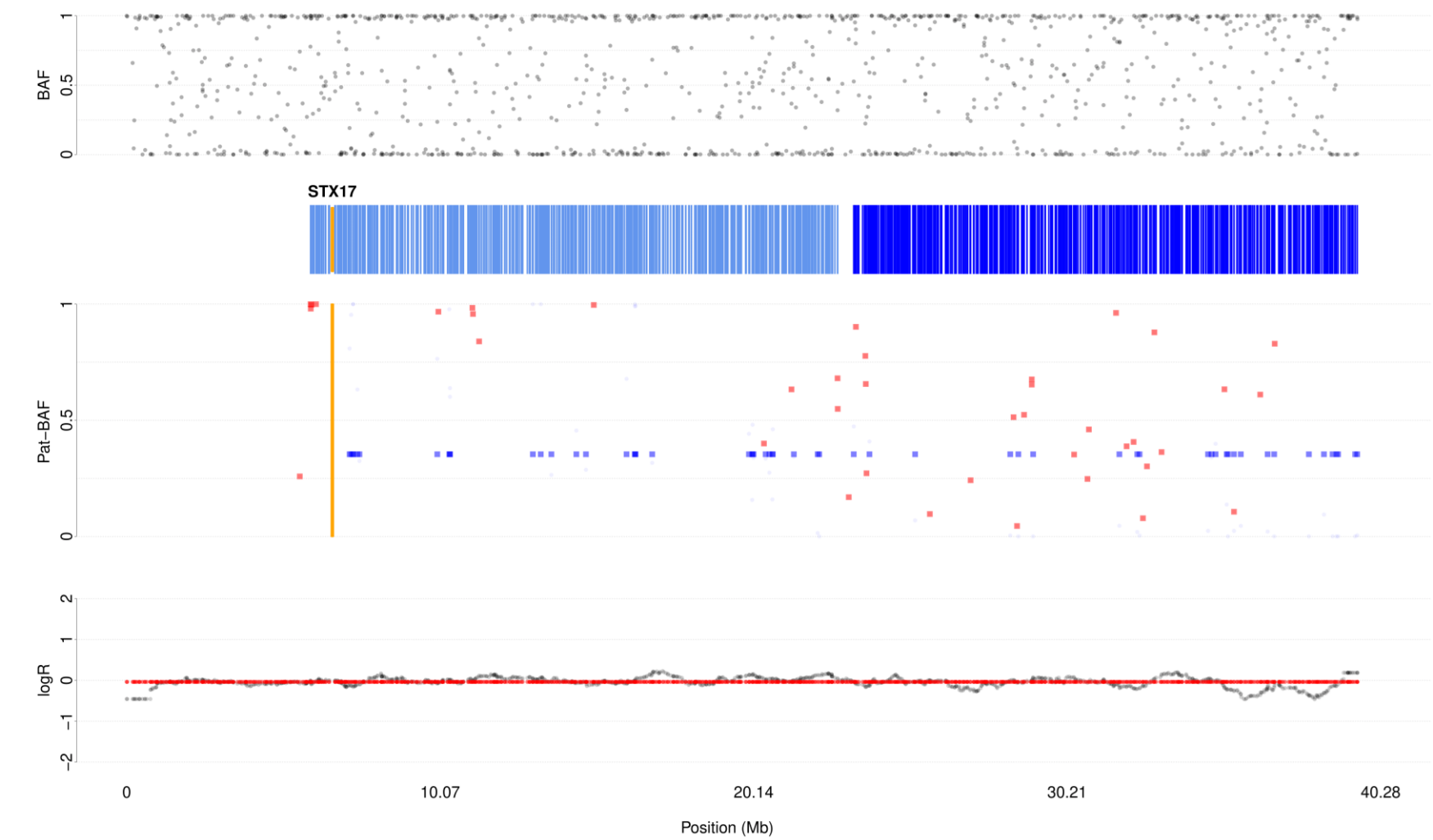
Mare03_Embryo01_Biopsy_Chromosome02



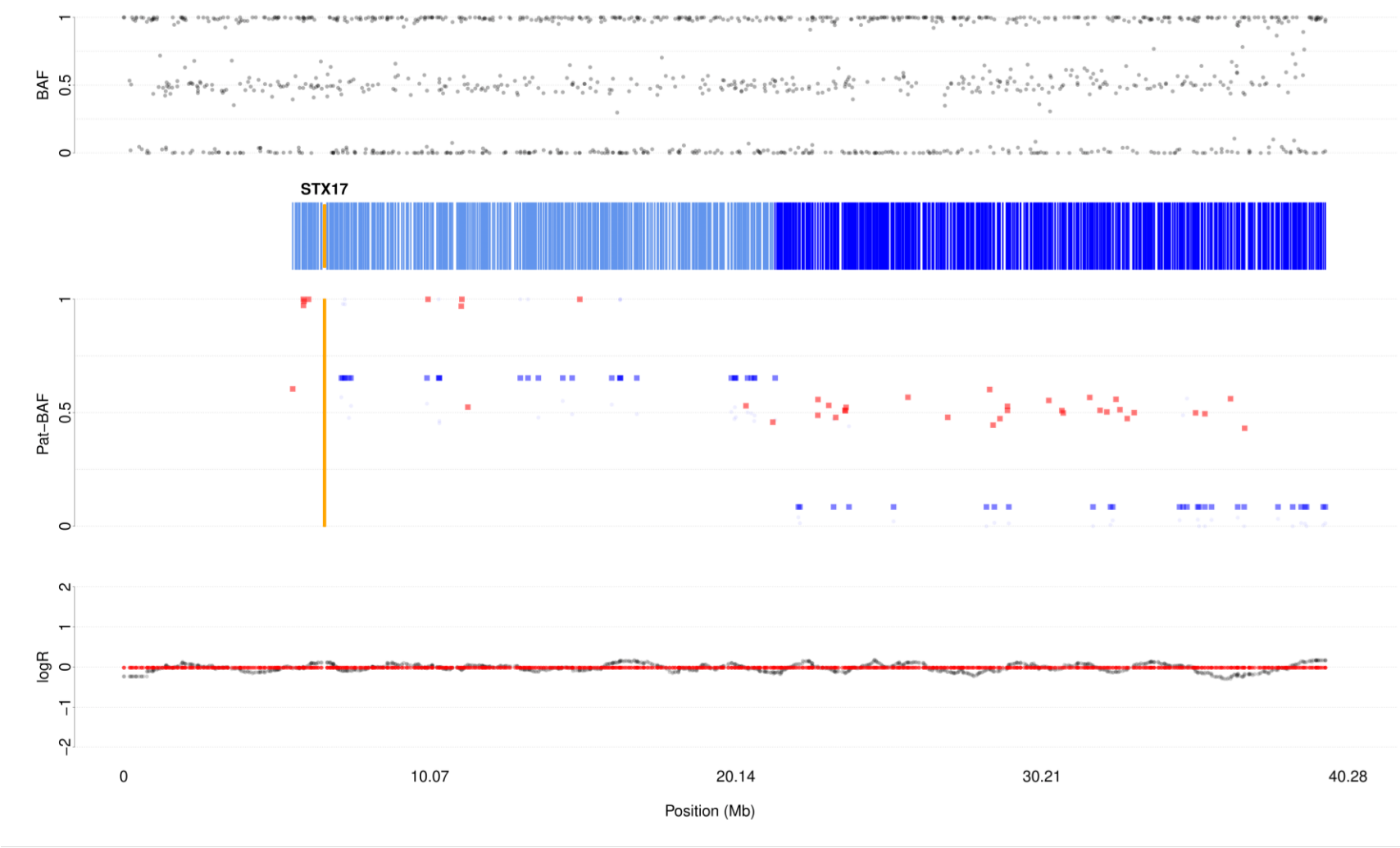
Mare03_Embryo01_Embryo_Chromosome02



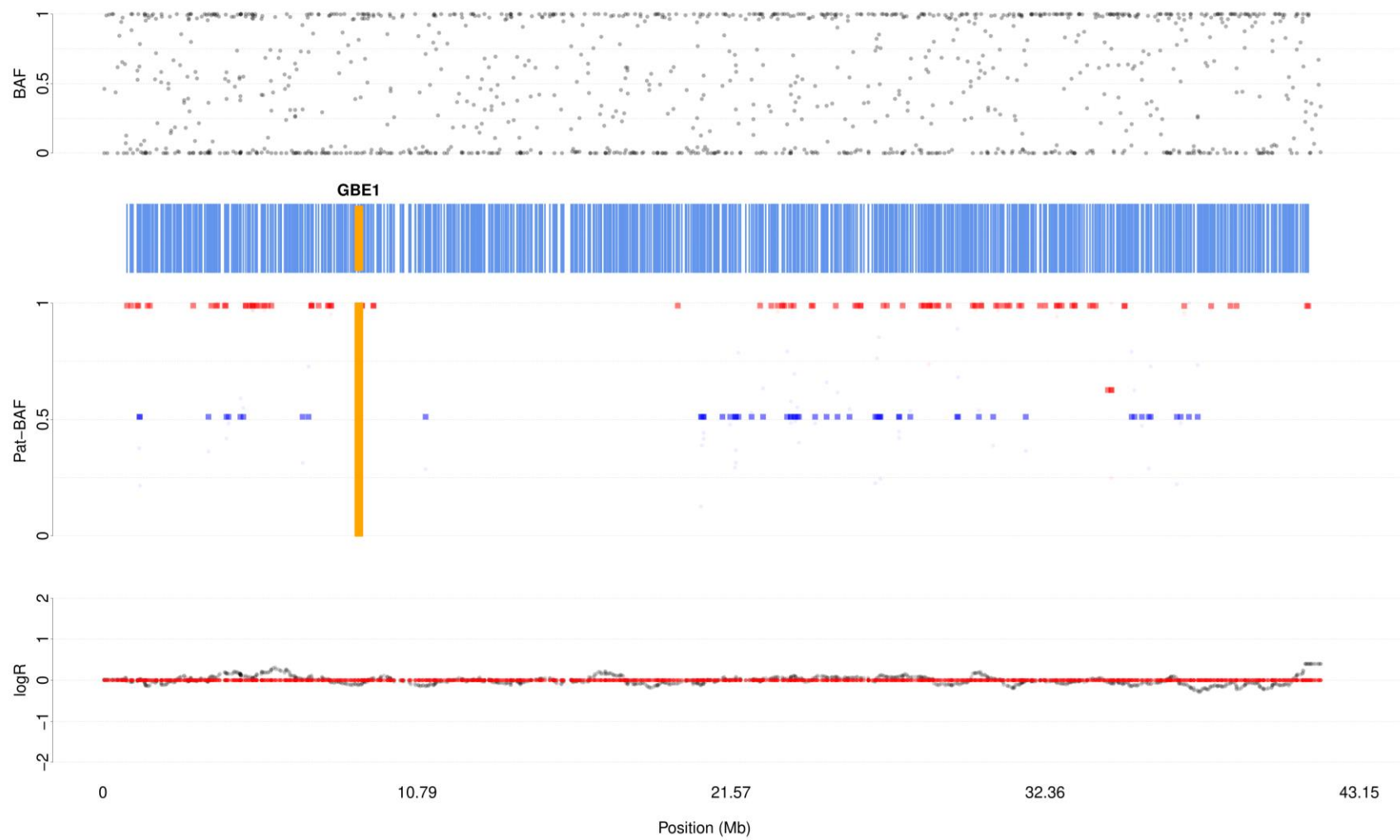
Mare03_Embryo01_Biopsy_Chromosome25



Mare03_Embryo01_Embryo_Chromosome25



Mare03_Embryo01_Biopsy_Chromosome26



Mare03_Embryo01_Embryo_Chromosome26

