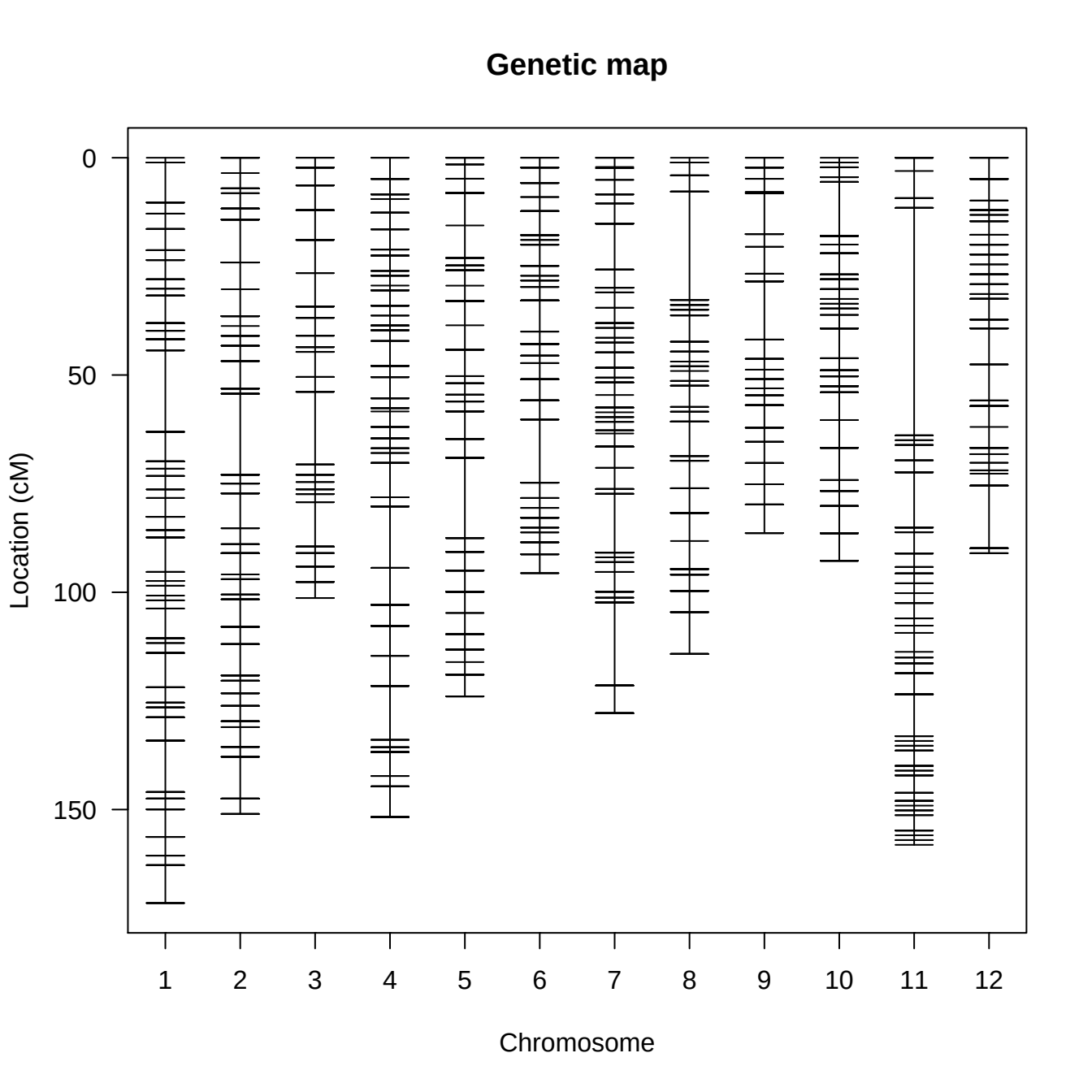
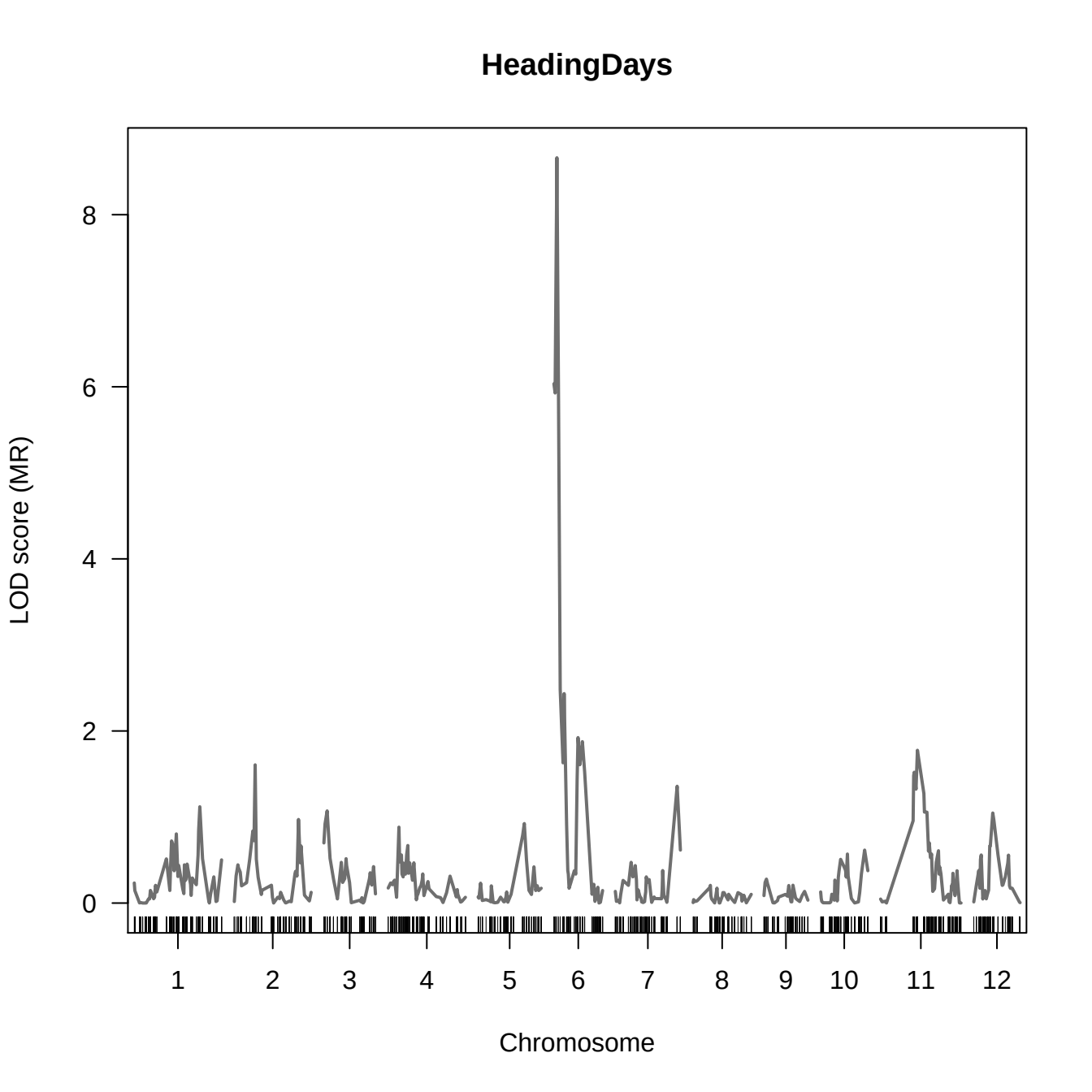
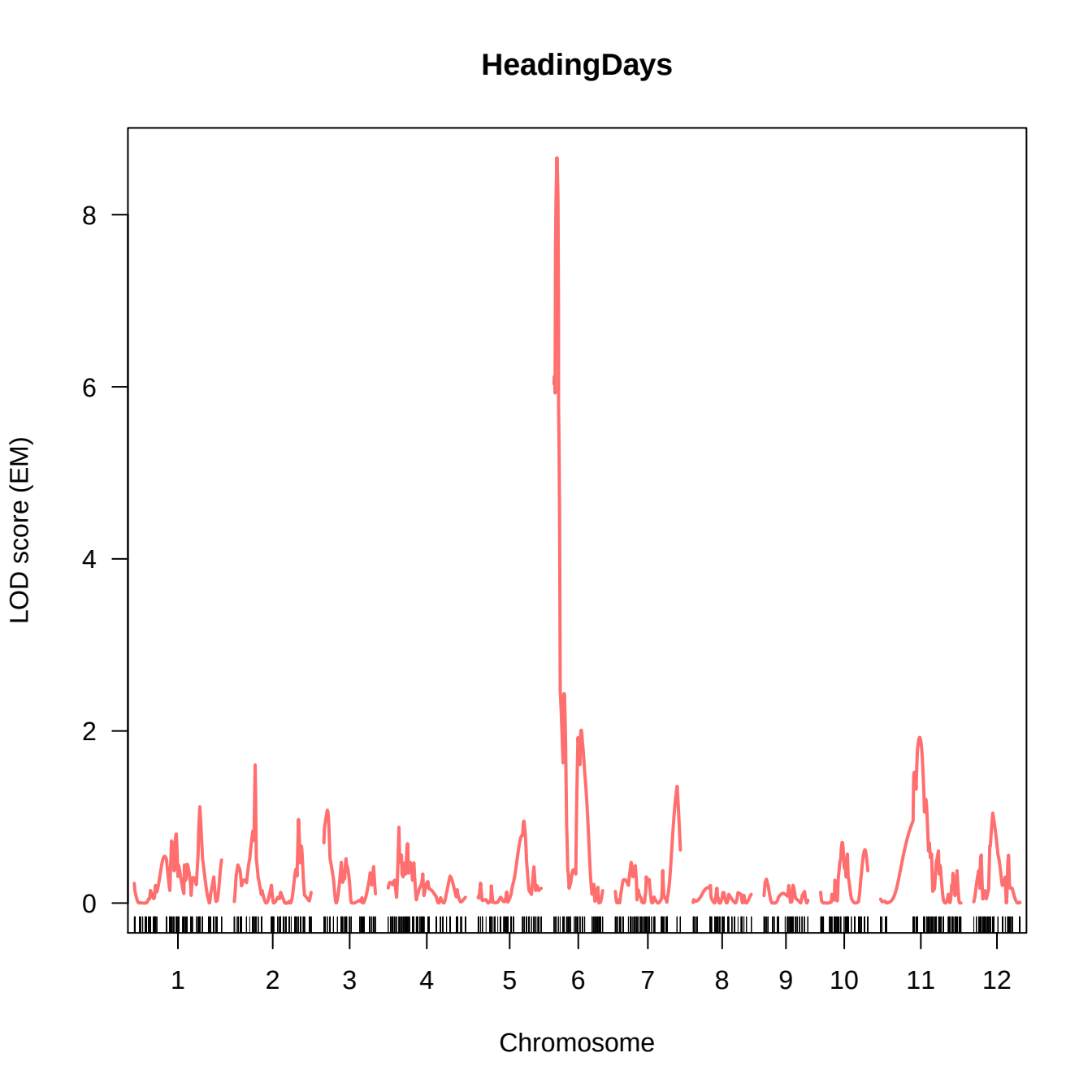
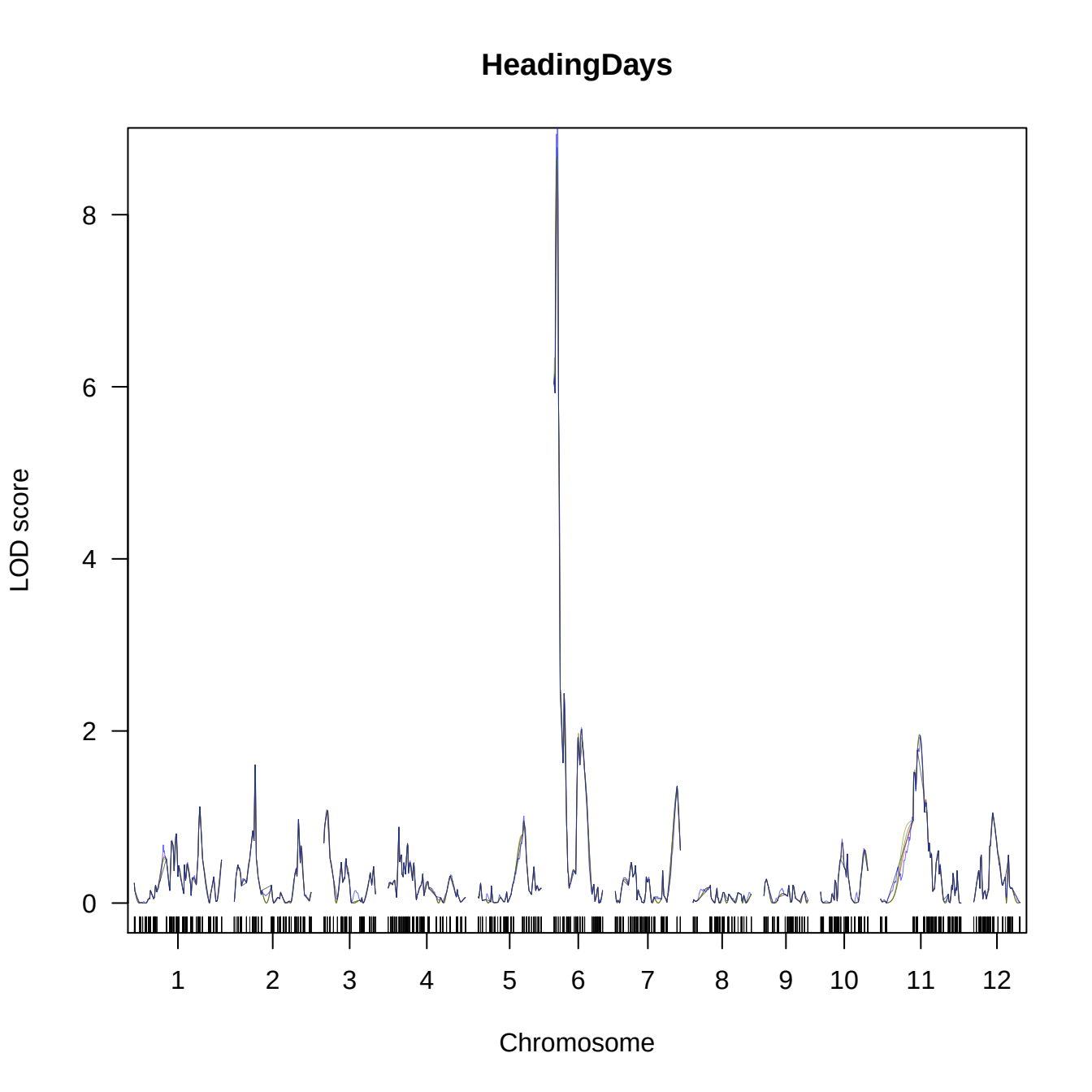
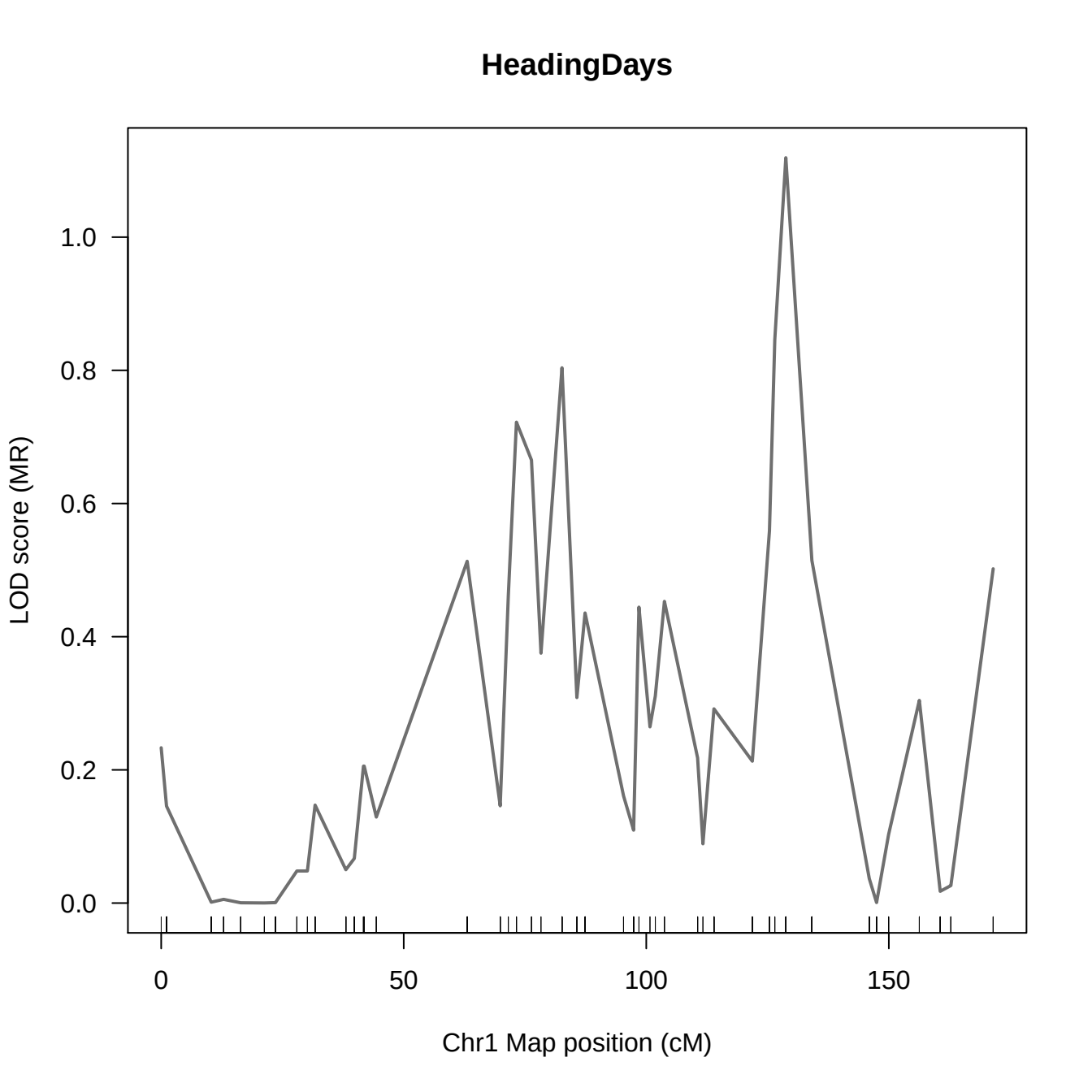
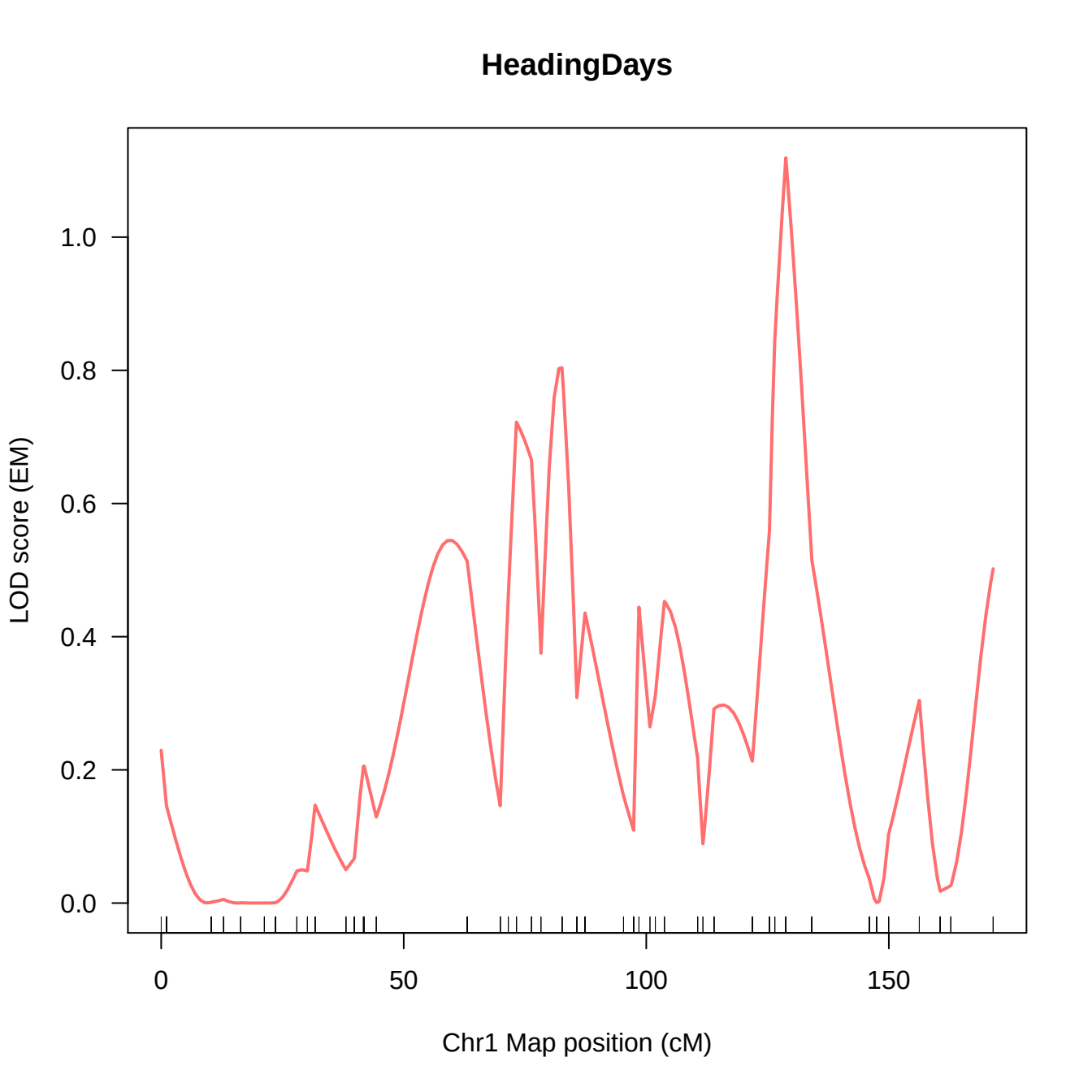

Genetic map
0
50
100
150
Location (cM)
1
2
3
4
5
6
7
8
9
10
11
12
Chromosome

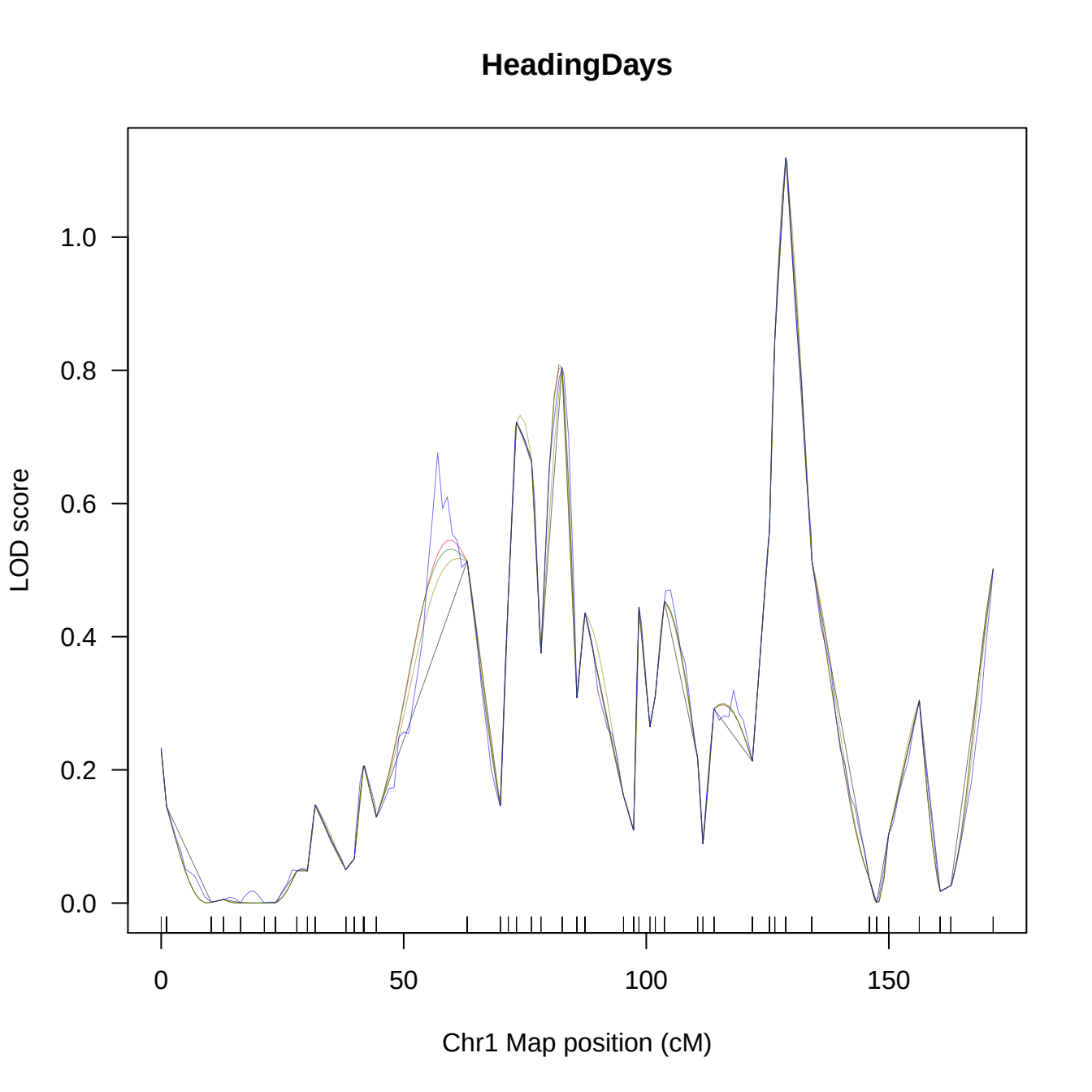

HeadingDays
LOD score (MR)
0
2
4
6
8
1
2
3
4
5
6
7
8
9
10
11
12
Chromosome

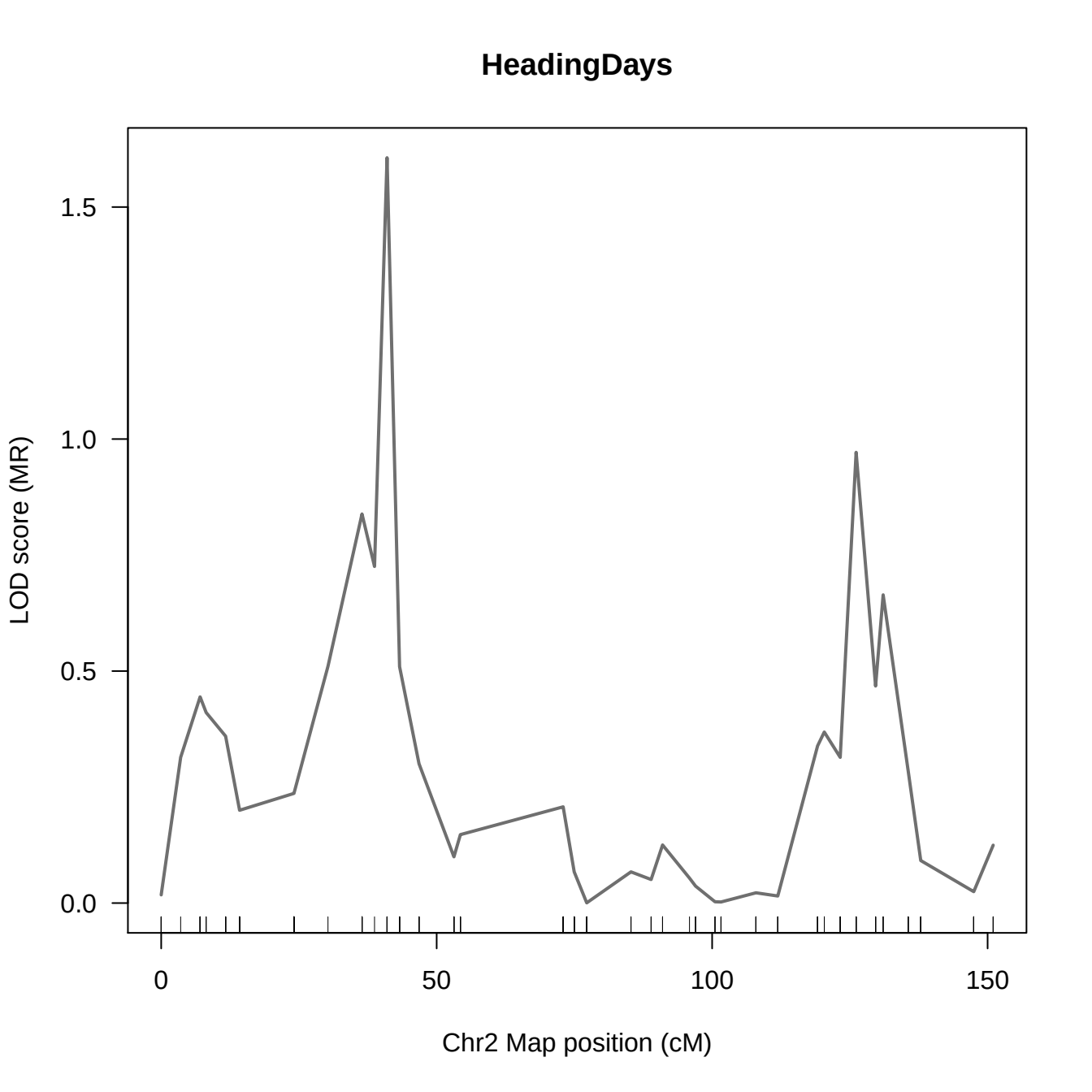

HeadingDays
LOD score (EM)
0
2
4
6
8
1
2
3
4
5
6
7
8
9
10
11
12
Chromosome

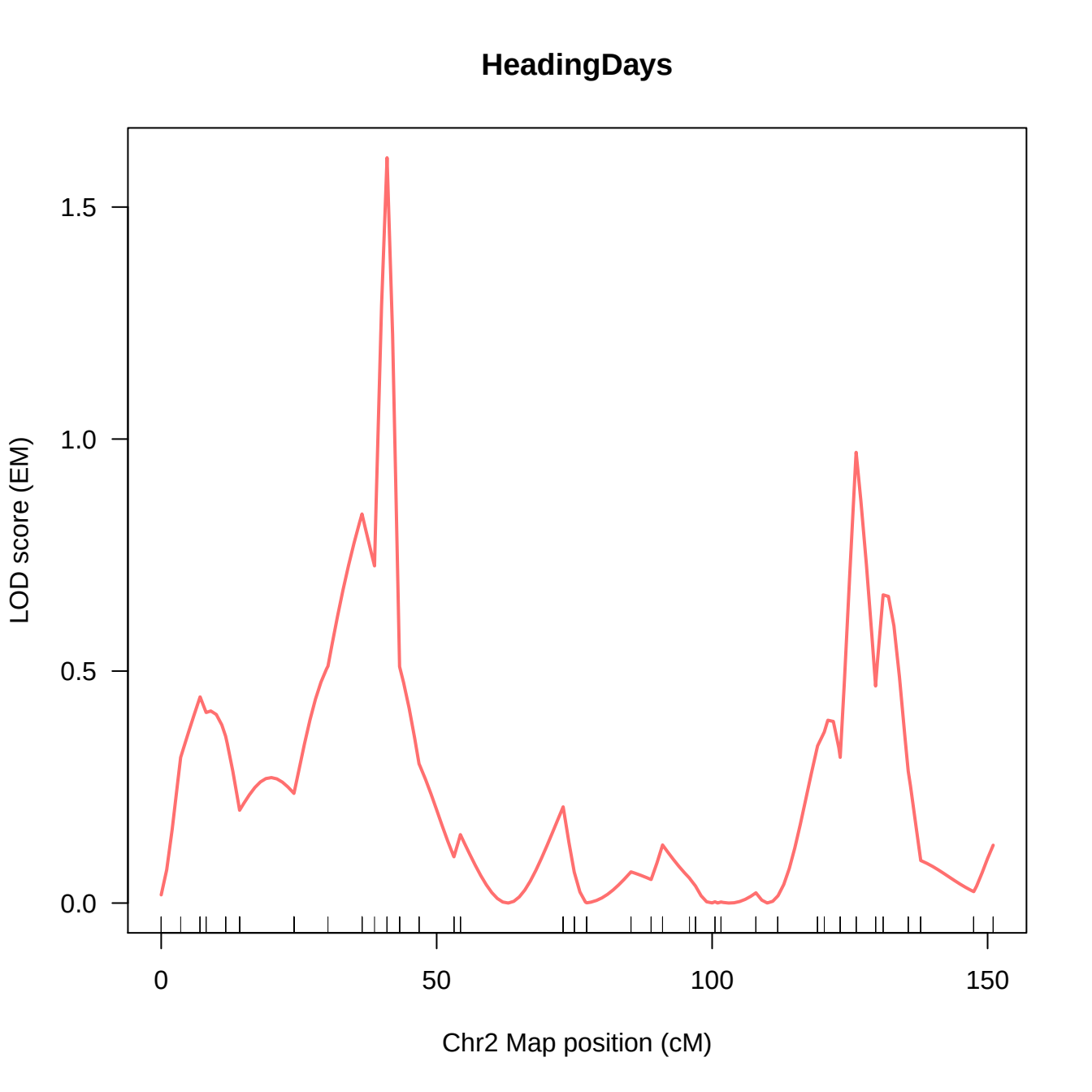

HeadingDays
LOD score
0
2
4
6
8
1
2
3
4
5
6
7
8
9
10
11
12
Chromosome

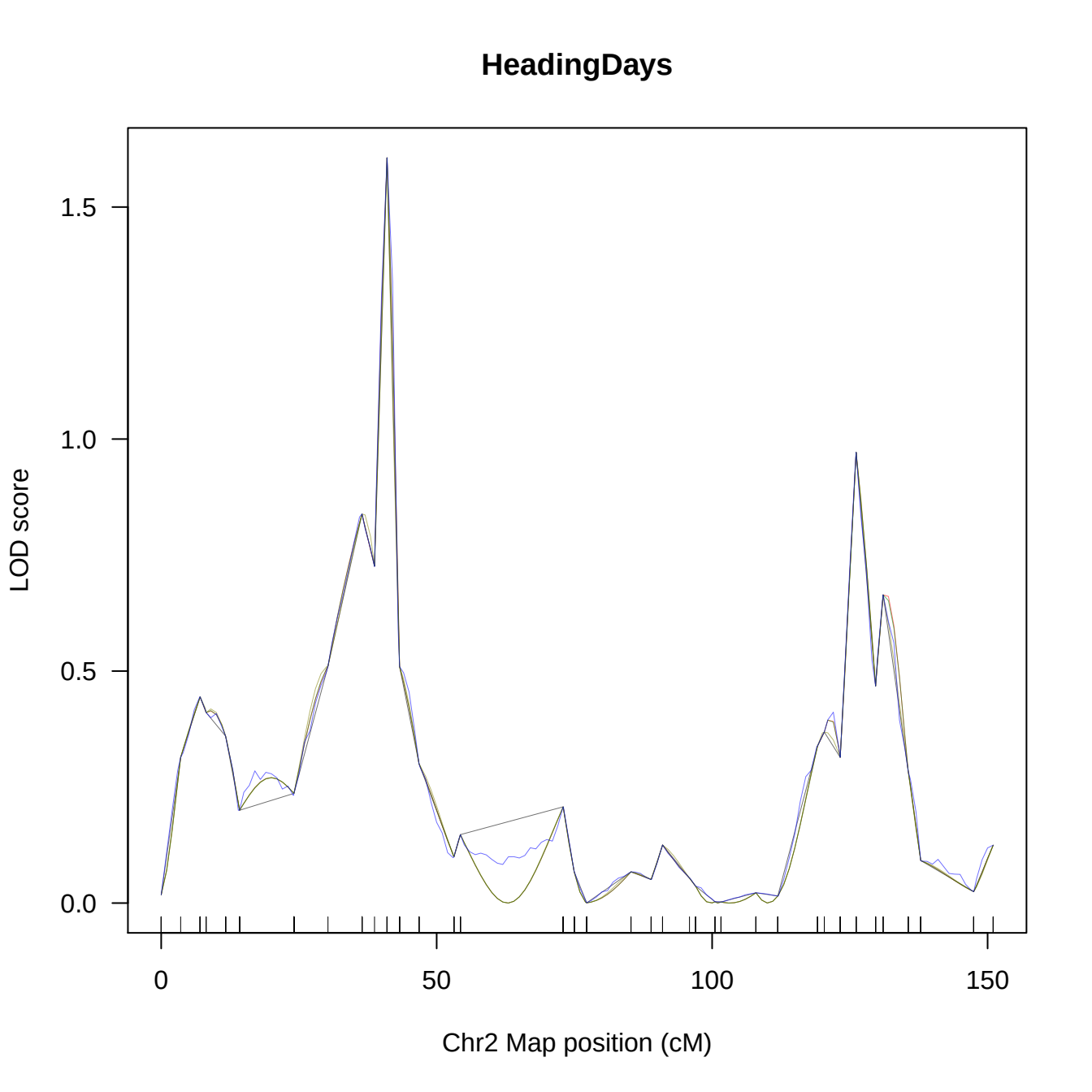

HeadingDays
LOD score (MR)
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
Chr1 Map position (cM)

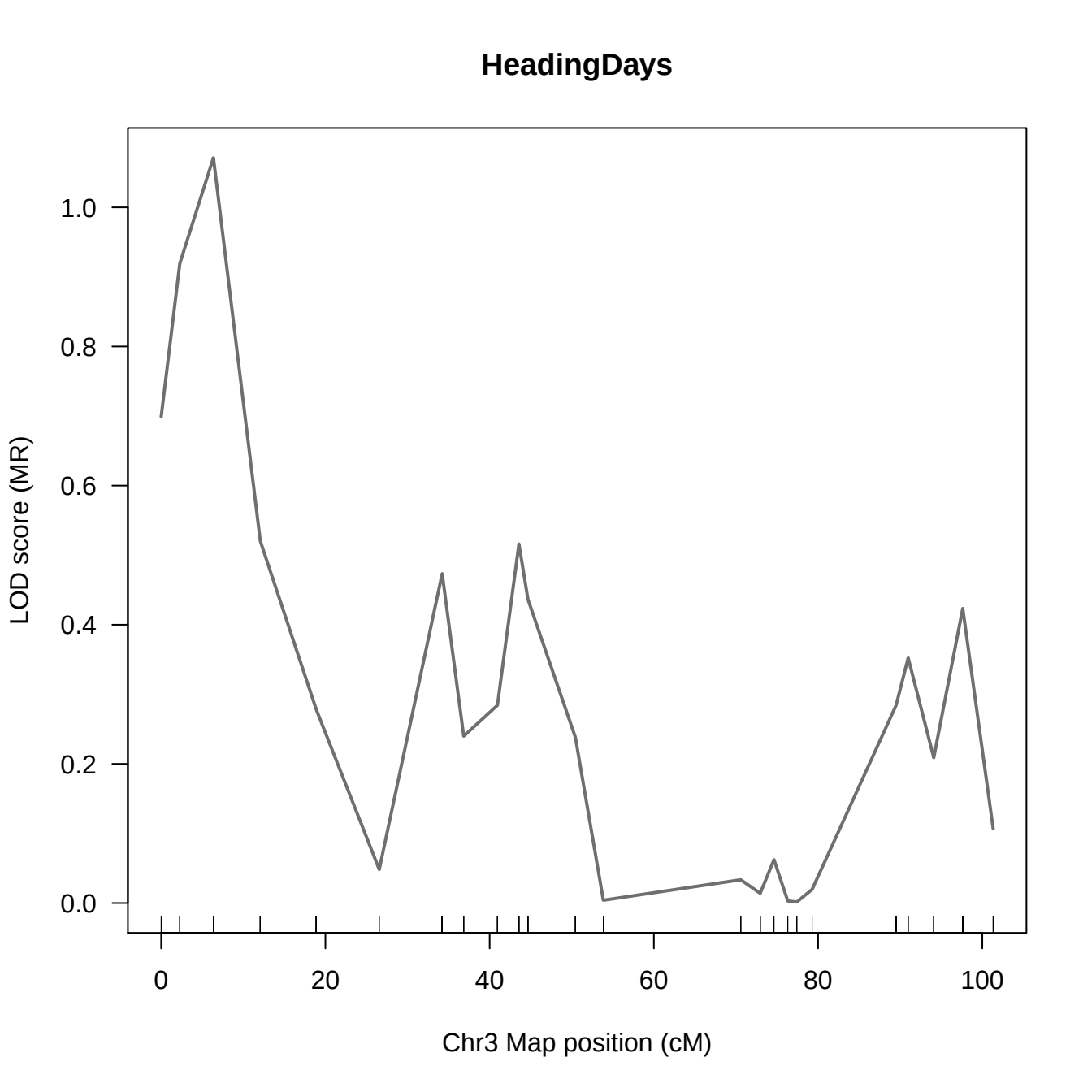

HeadingDays
LOD score (EM)
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
Chr1 Map position (cM)

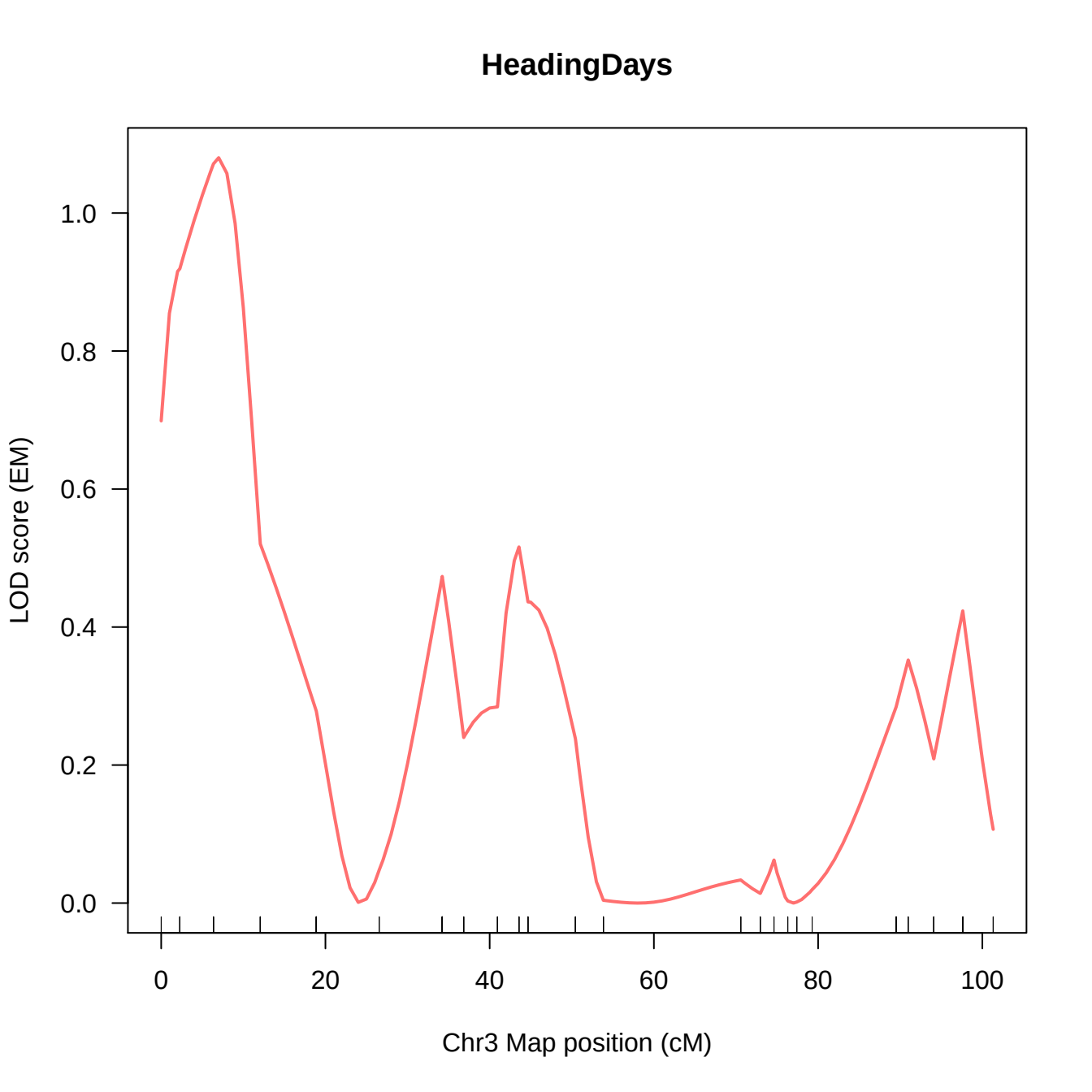

HeadingDays
LOD score
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
Chr1 Map position (cM)

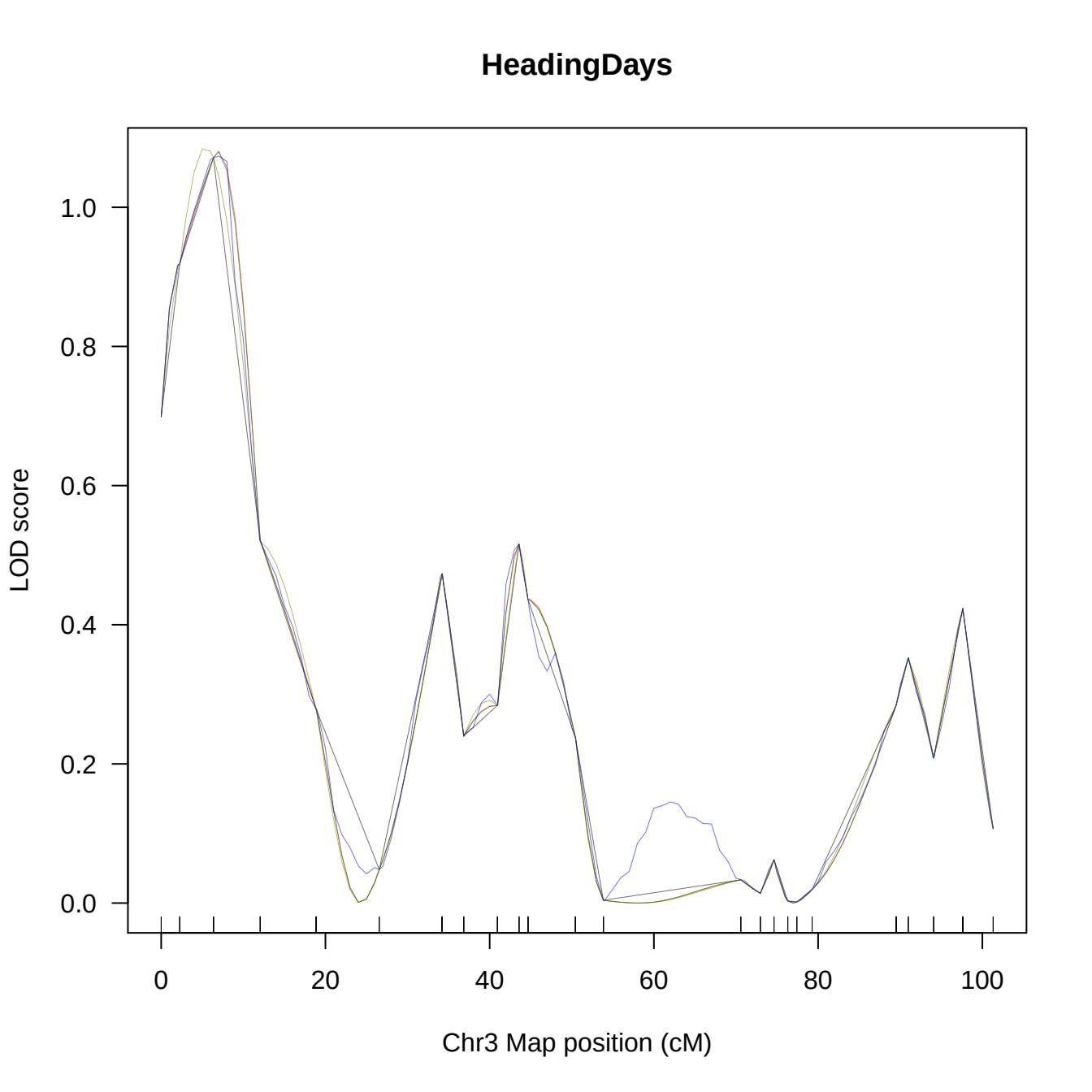

HeadingDays
LOD score (MR)
0.0
0.5
1.0
1.5
0
50
100
150
Chr2 Map position (cM)

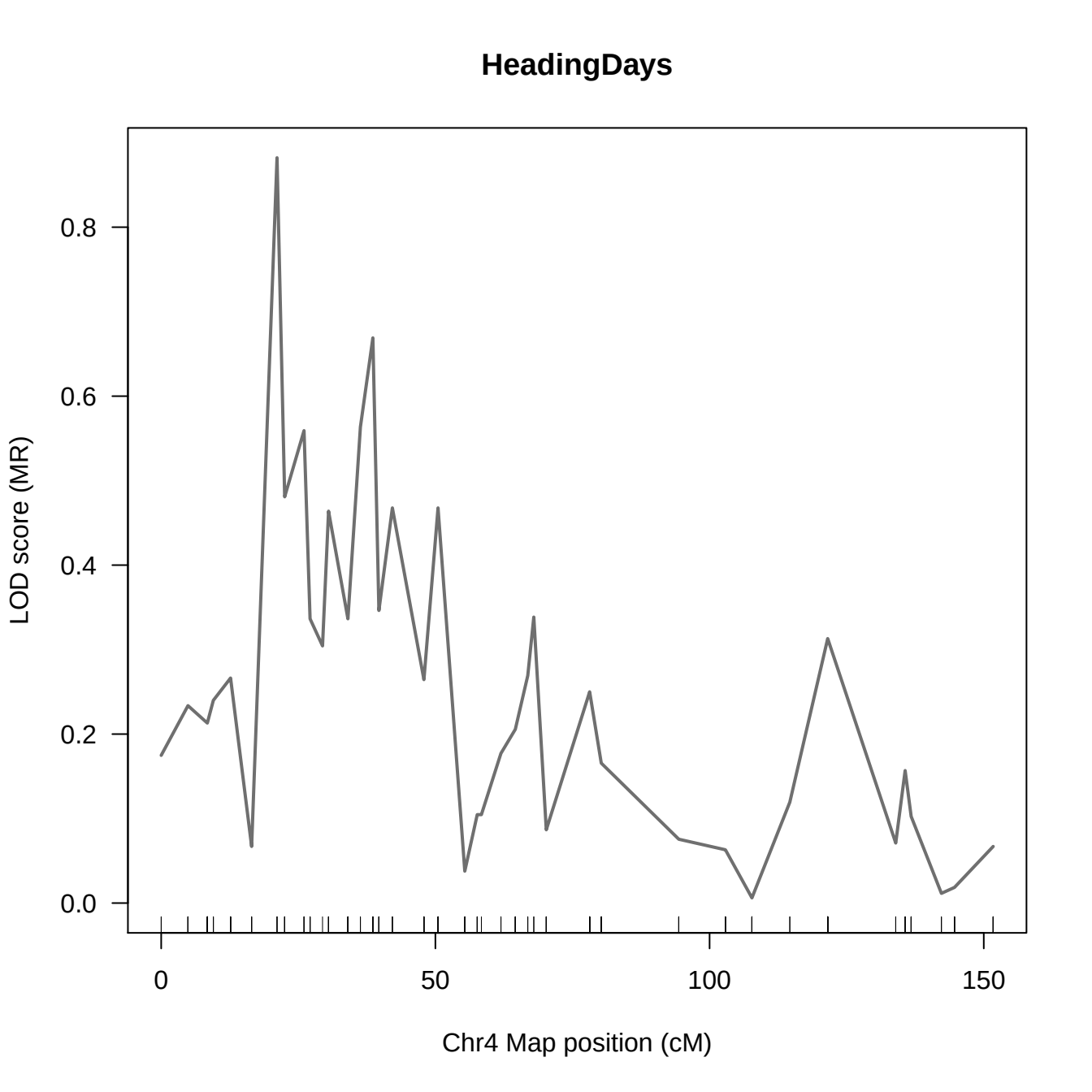

HeadingDays
LOD score (EM)
1.5
1.0
0.5
0.0
0
50
100
150
Chr2 Map position (cM)

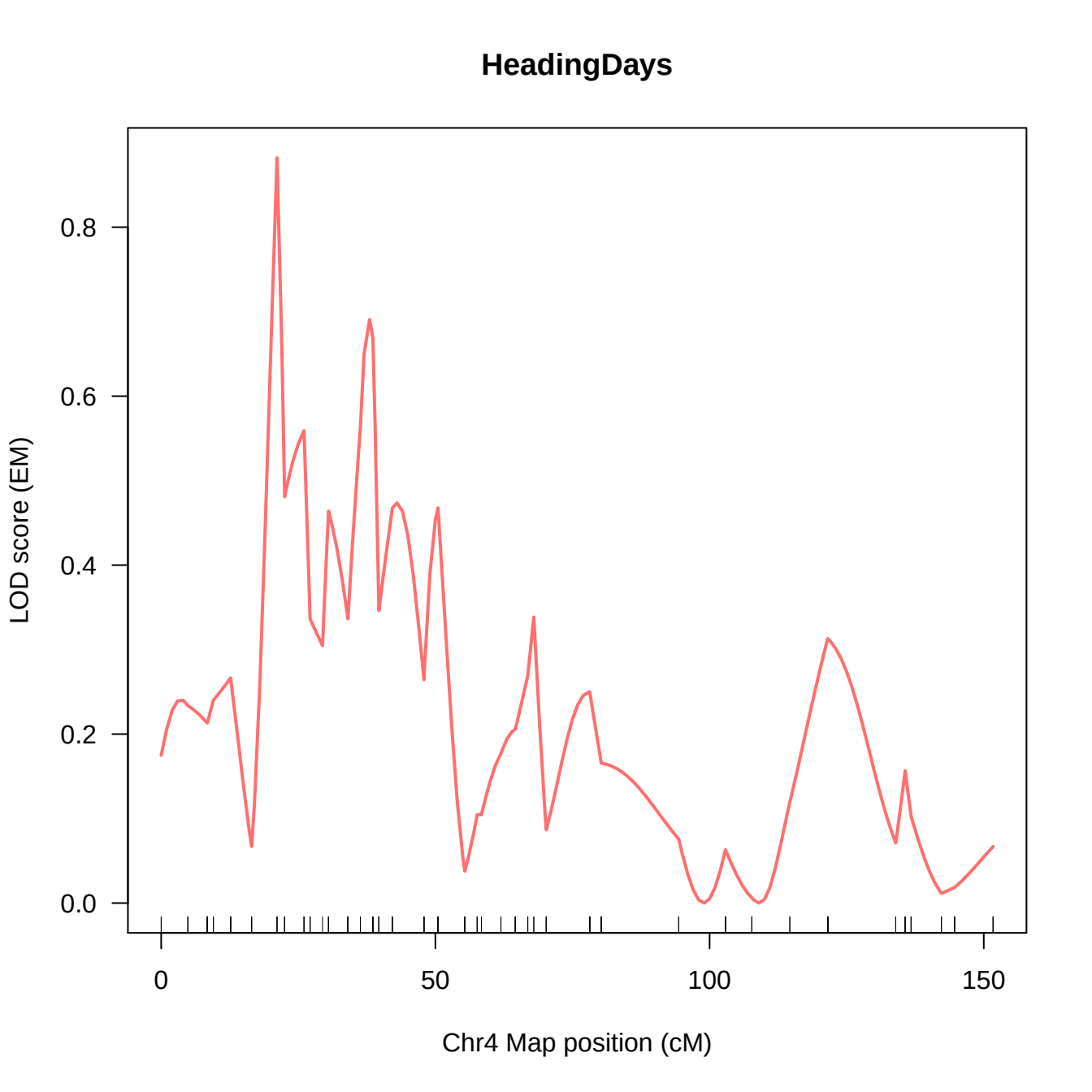

HeadingDays
LOD score
1.5
1.0
0.5
0.0
0
50
100
150
Chr2 Map position (cM)

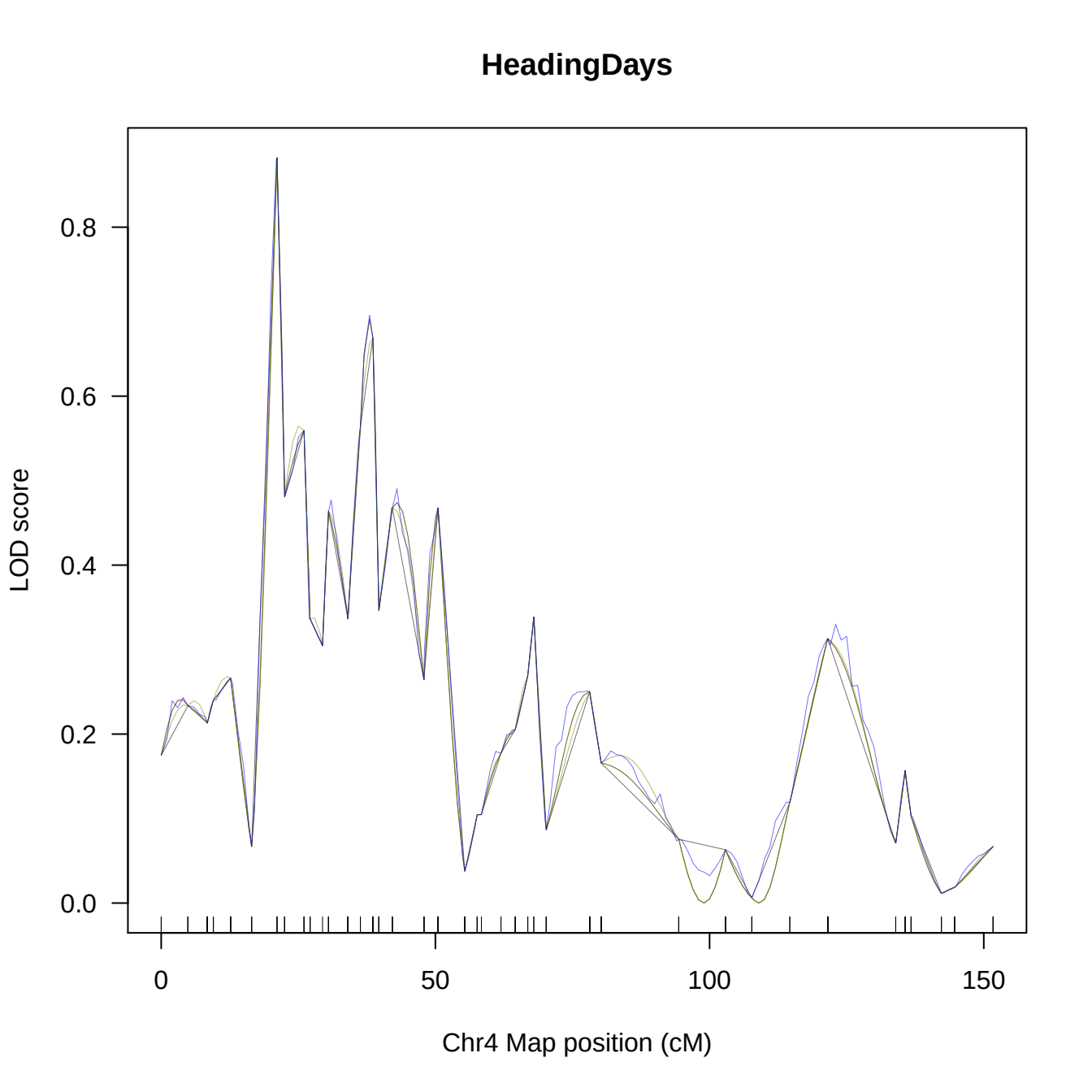

HeadingDays
LOD score (MR)
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
100
Chr3 Map position (cM)

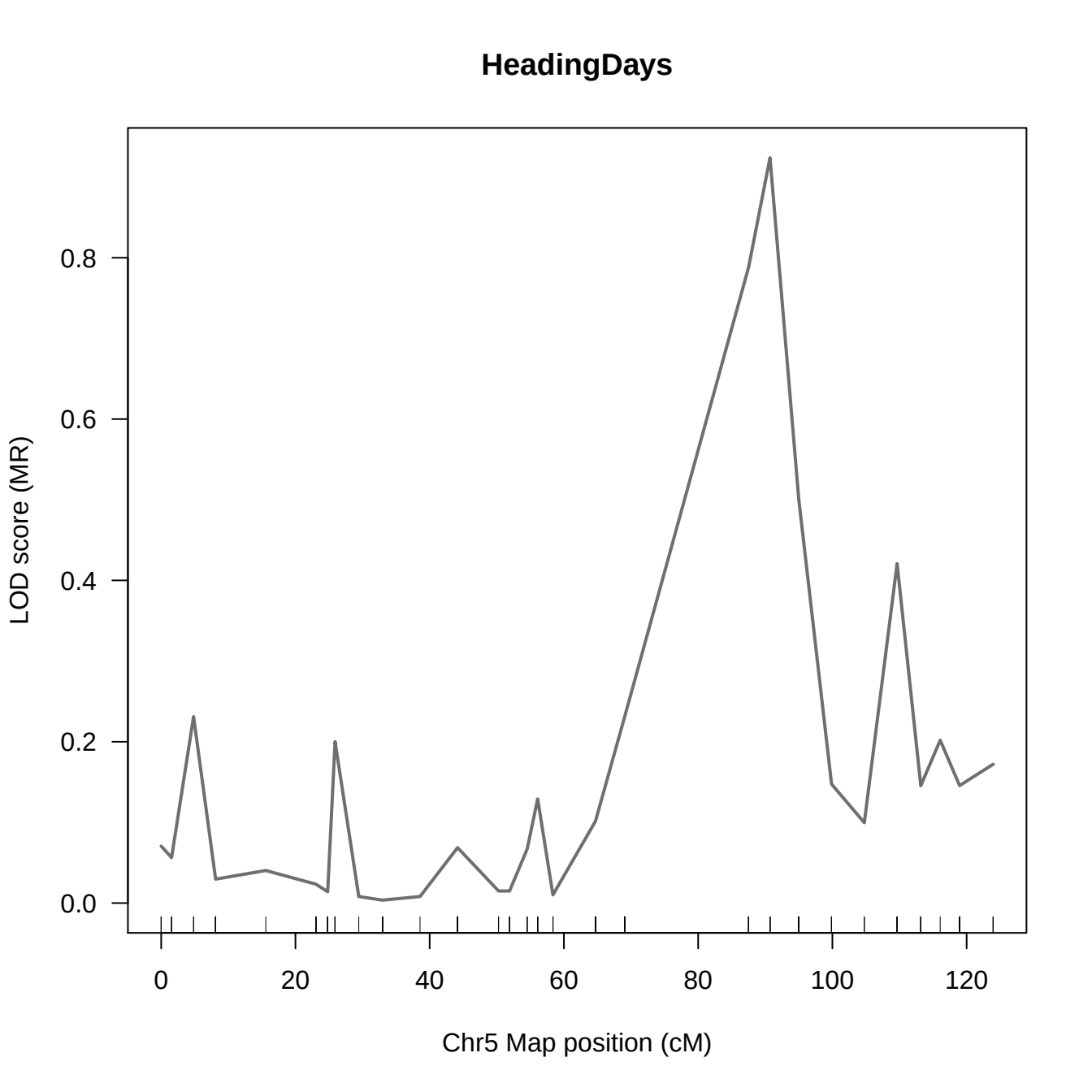

HeadingDays
LOD score (EM)
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
100
Chr3 Map position (cM)

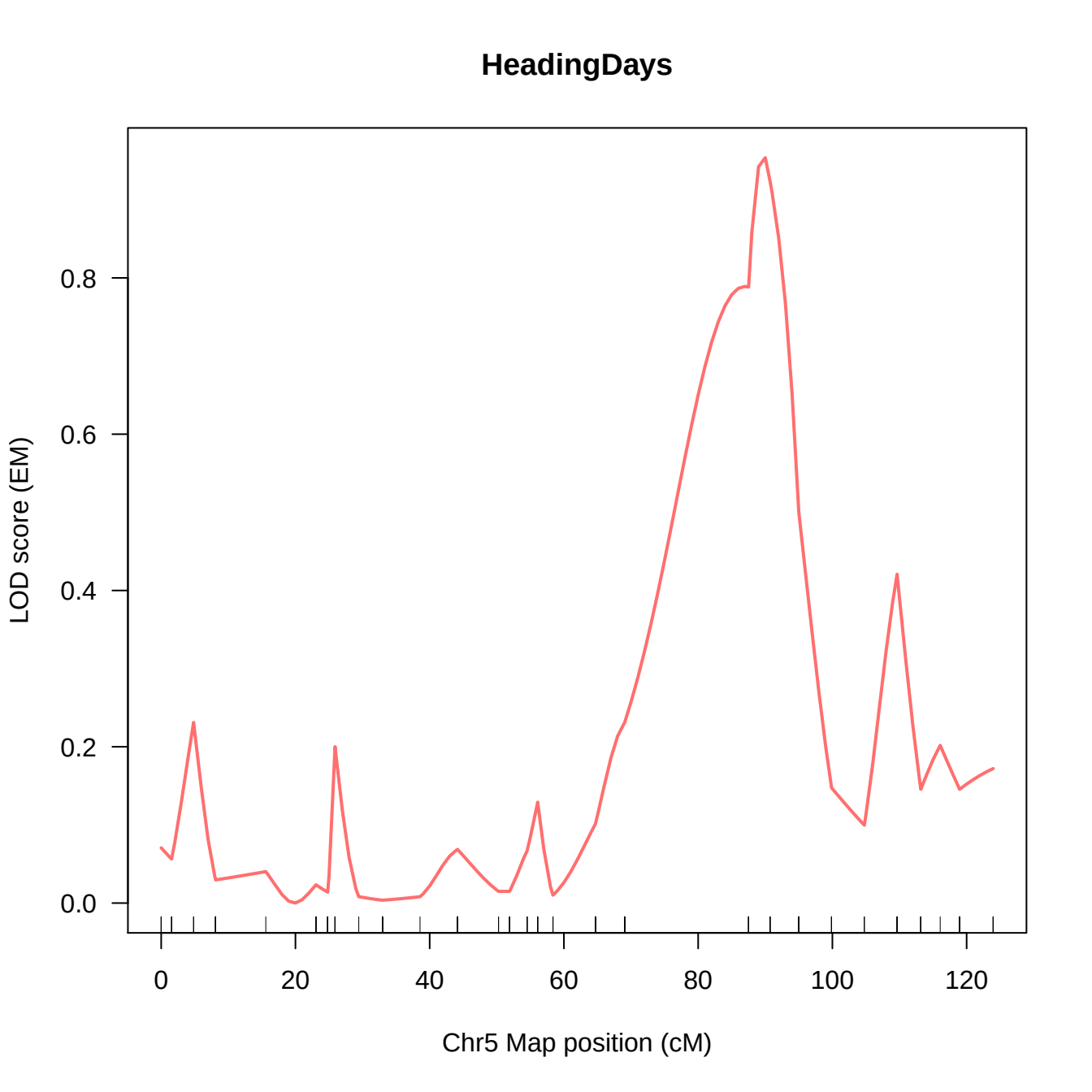

HeadingDays
LOD score
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
100
Chr3 Map position (cM)

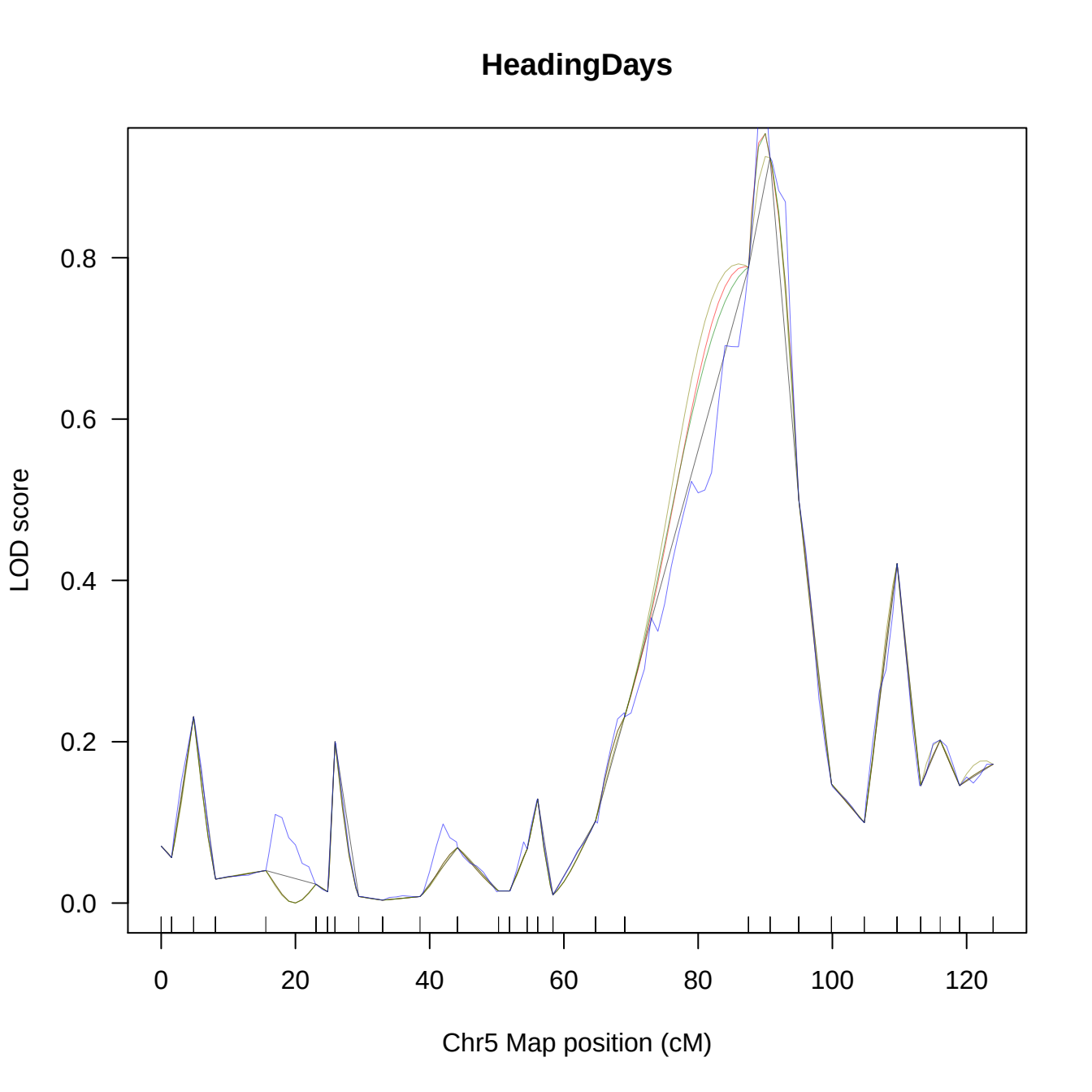

HeadingDays
LOD score (MR)
0.0
0.2
0.4
0.6
0.8
0
50
100
150
Chr4 Map position (cM)

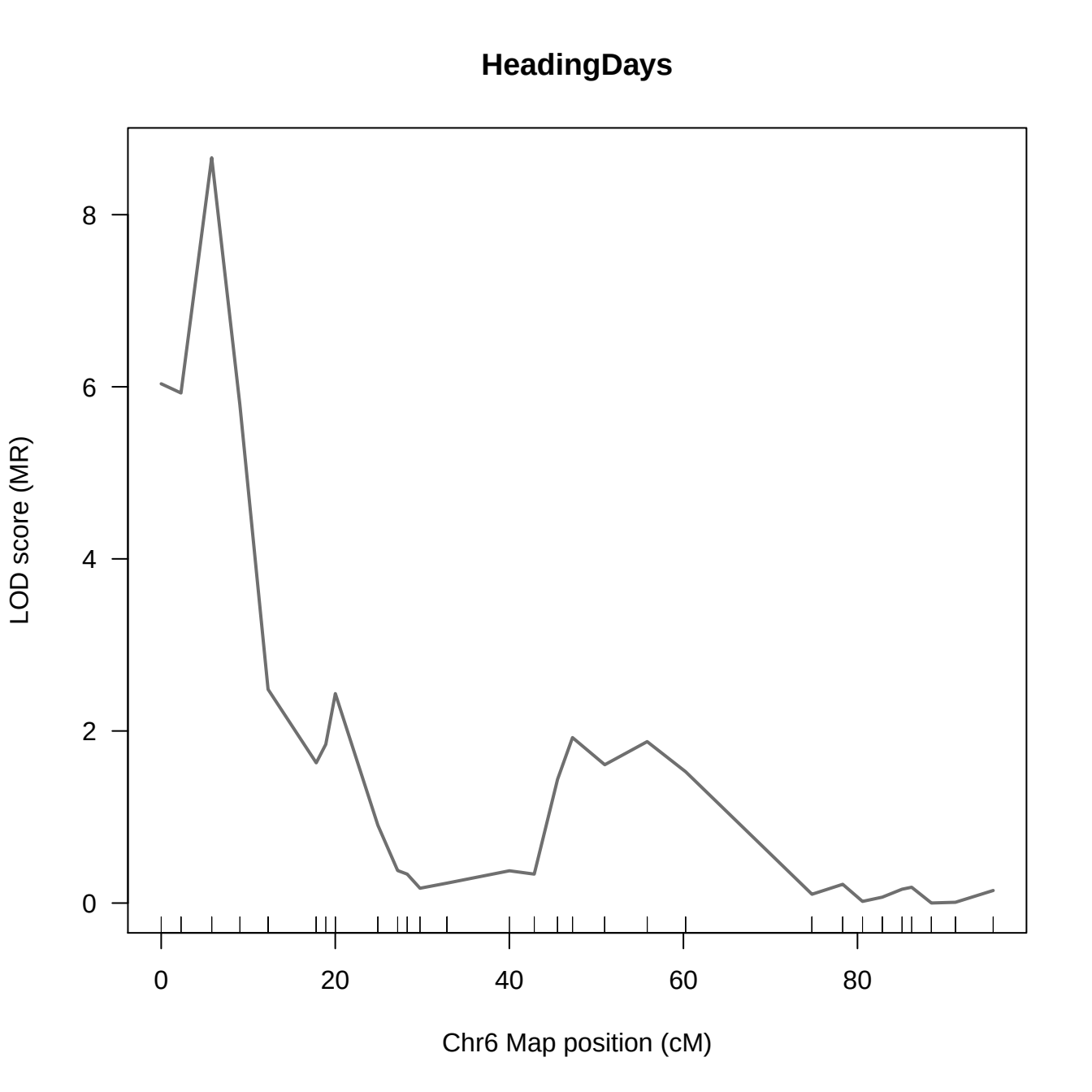

HeadingDays
LOD score (EM)
0.0
0.2
0.4
0.6
0.8
0
50
100
150
Chr4 Map position (cM)

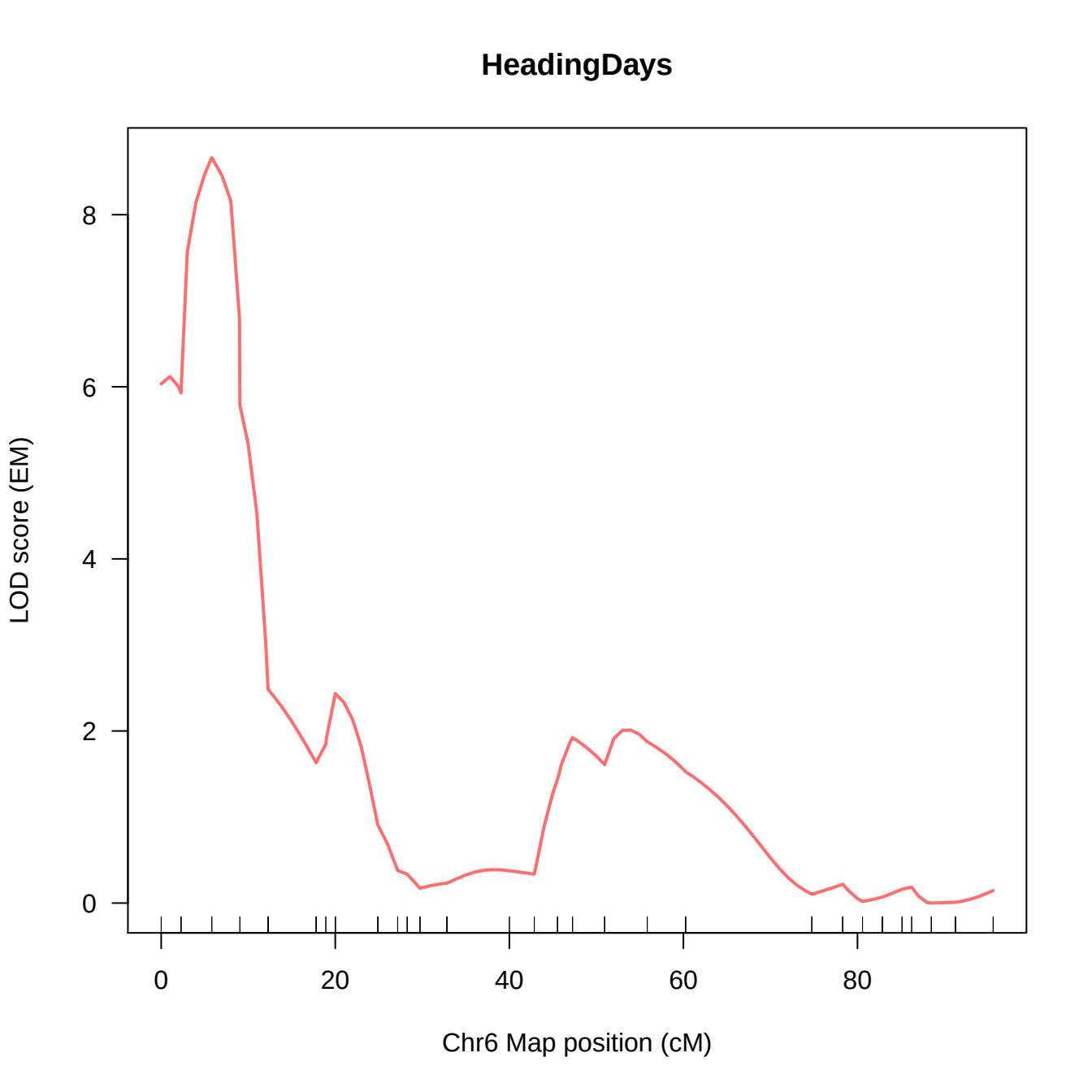

HeadingDays
LOD score
0.0
0.2
0.4
0.6
0.8
0
50
100
150
Chr4 Map position (cM)

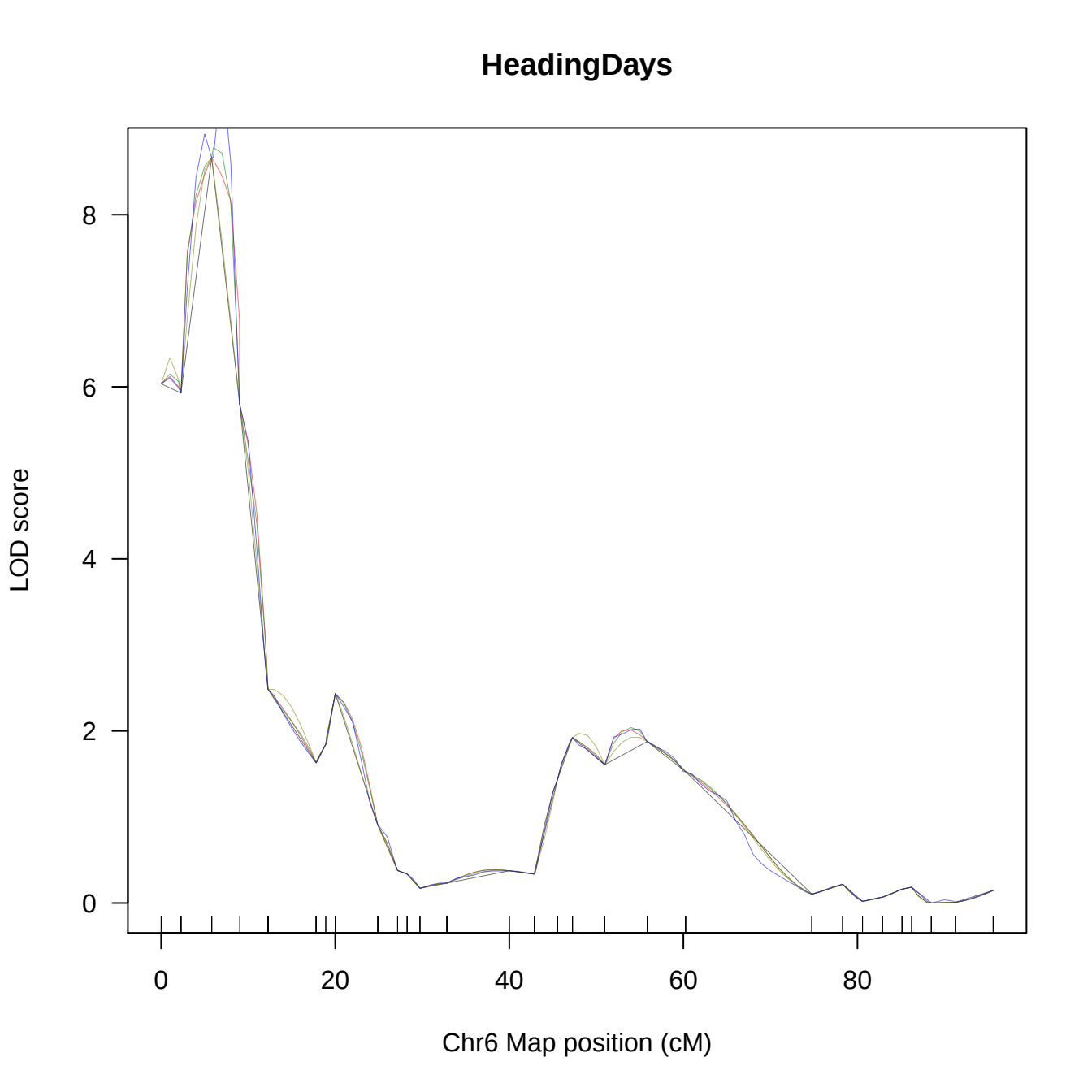

HeadingDays
LOD score (MR)
0.0
0.2
0.4
0.6
0.8
0
20
40
60
80
100
120
Chr5 Map position (cM)

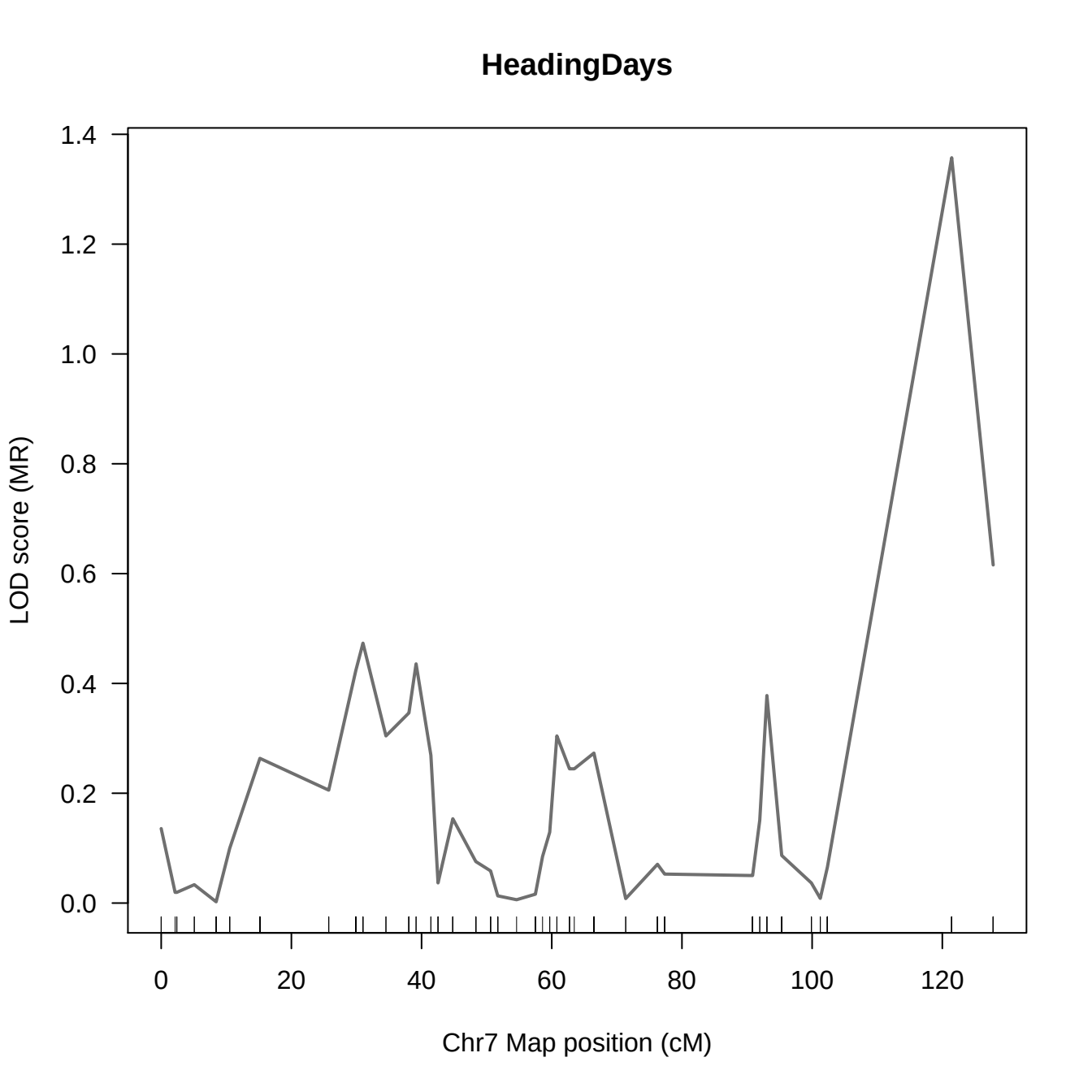

HeadingDays
LOD score (EM)
0.0
0.2
0.4
0.6
0.8
0
20
40
60
80
100
120
Chr5 Map position (cM)

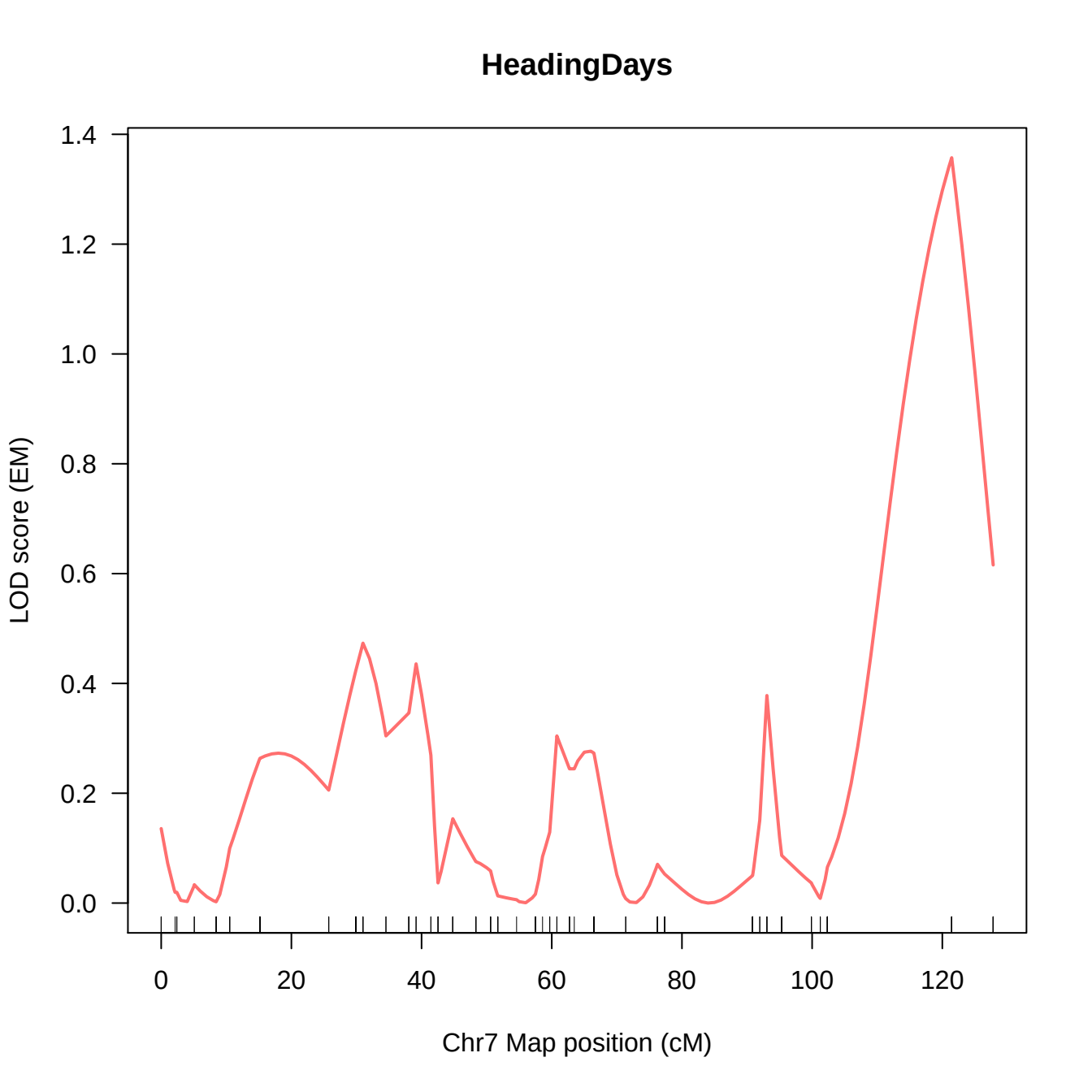

HeadingDays
LOD score
0.0
0.2
0.4
0.6
0.8
0
20
40
60
80
100
120
Chr5 Map position (cM)

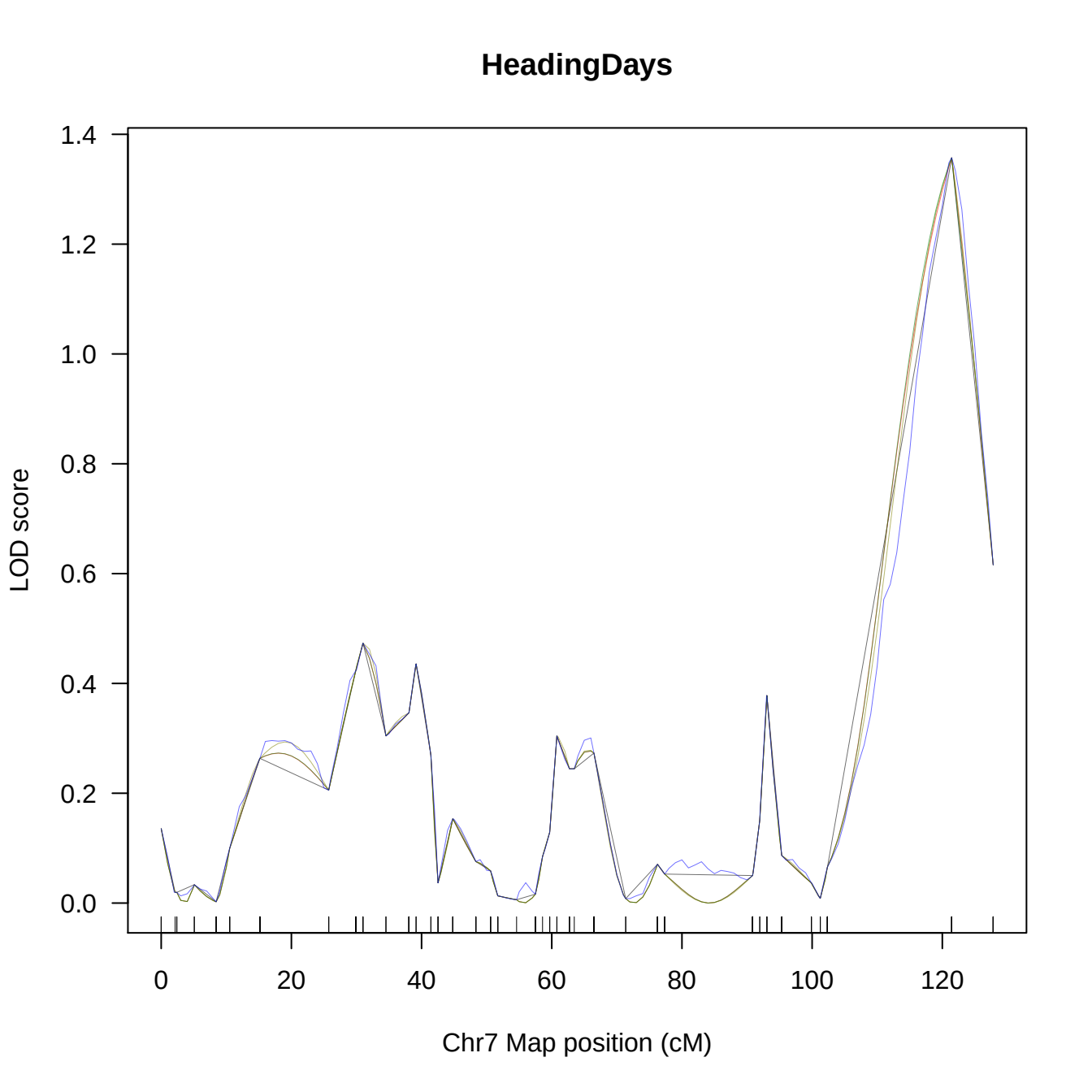

HeadingDays
LOD score (MR)
0
2
4
6
8
0
20
40
60
80
Chr6 Map position (cM)

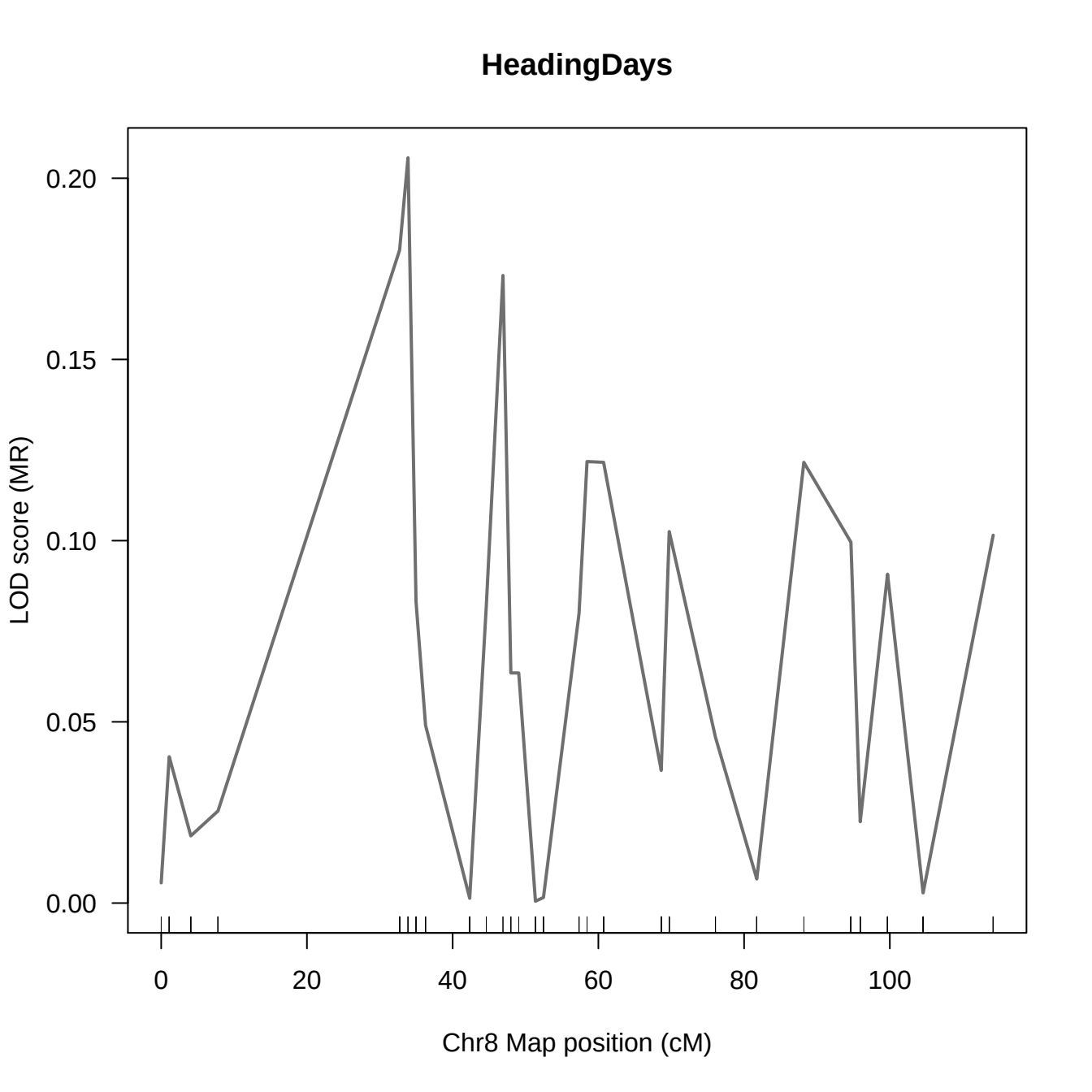

HeadingDays
LOD score (EM)
0
2
4
6
8
0
20
40
60
80
Chr6 Map position (cM)

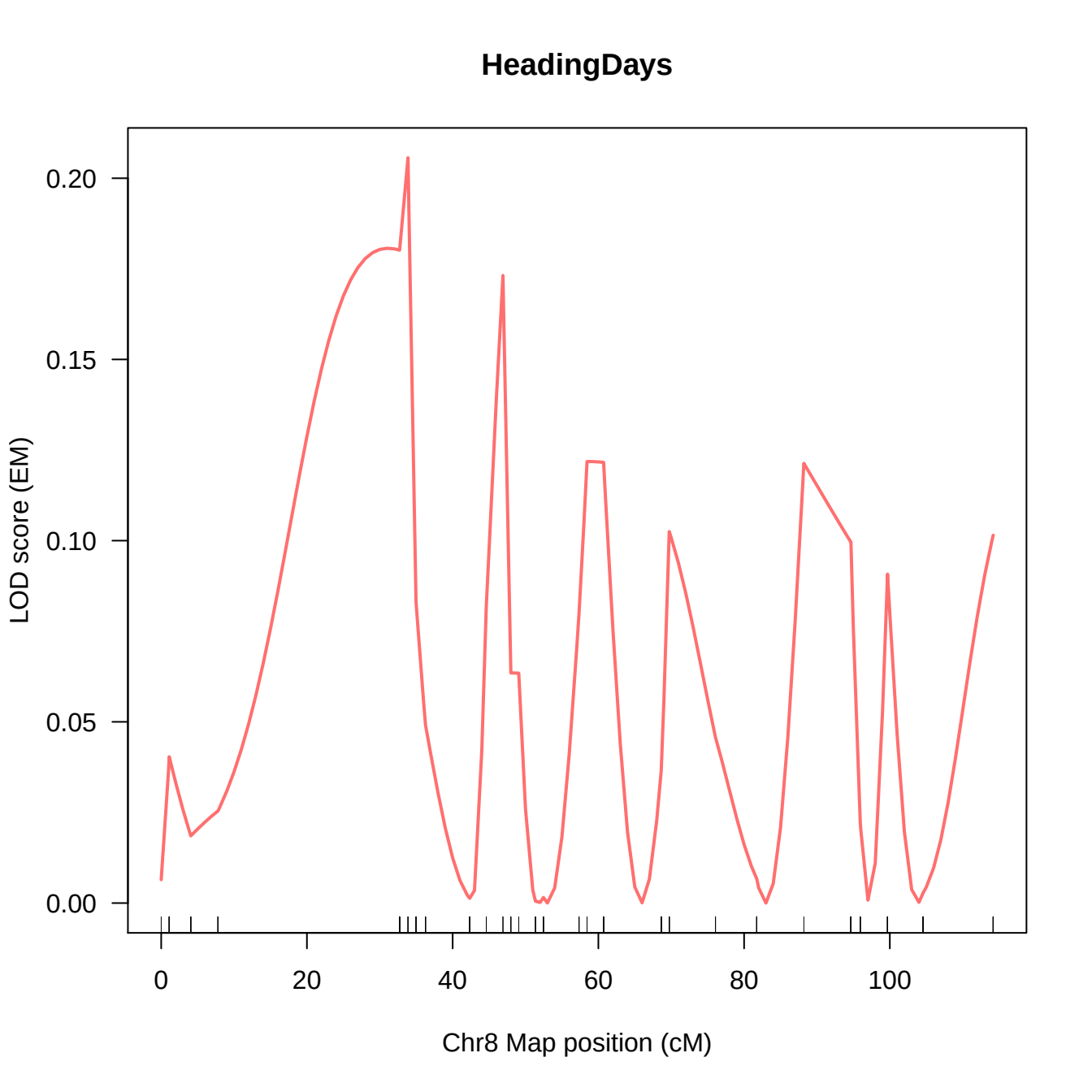

HeadingDays
LOD score
0
2
4
6
8
0
20
40
60
80
Chr6 Map position (cM)

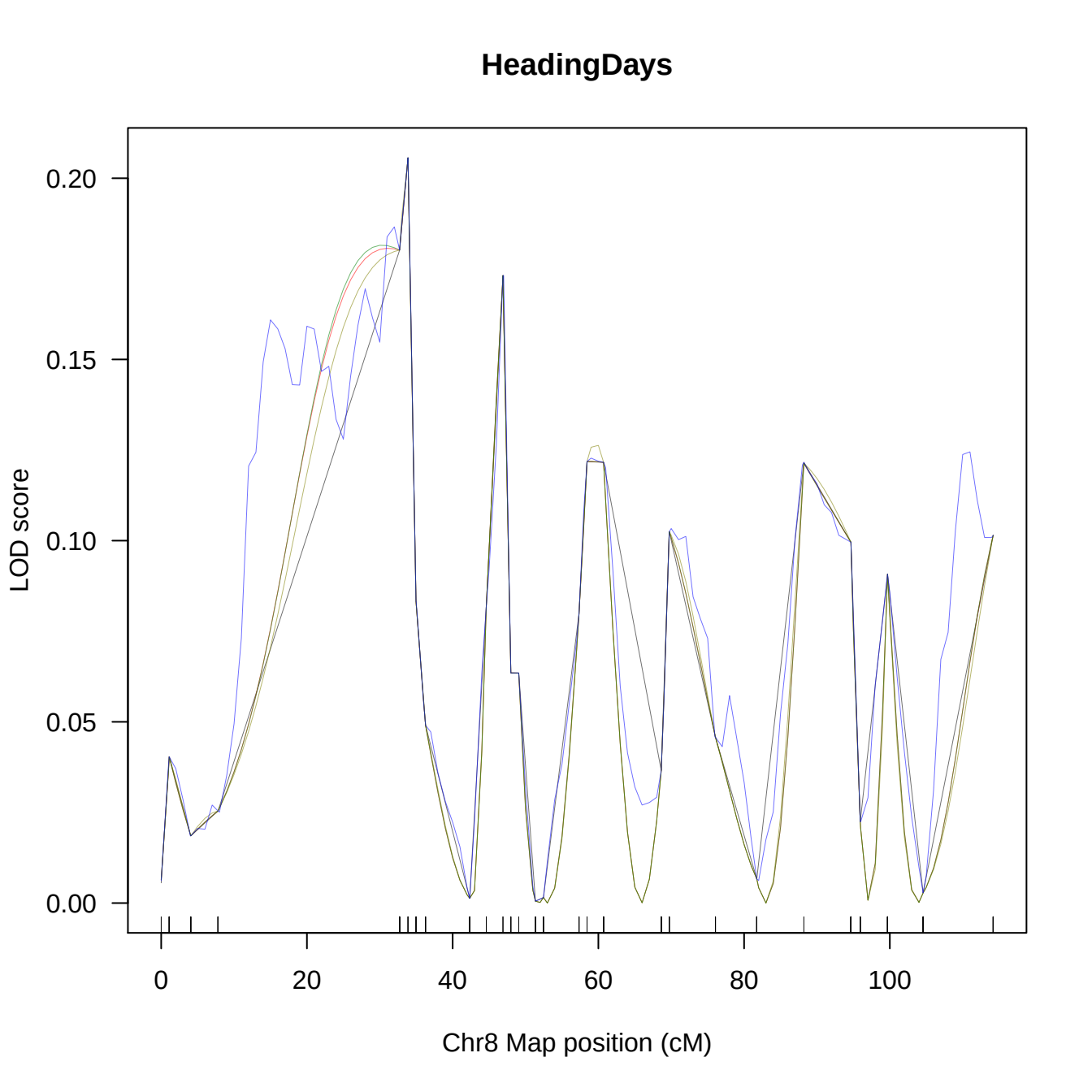

HeadingDays
LOD score (MR)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
100
120
Chr7 Map position (cM)

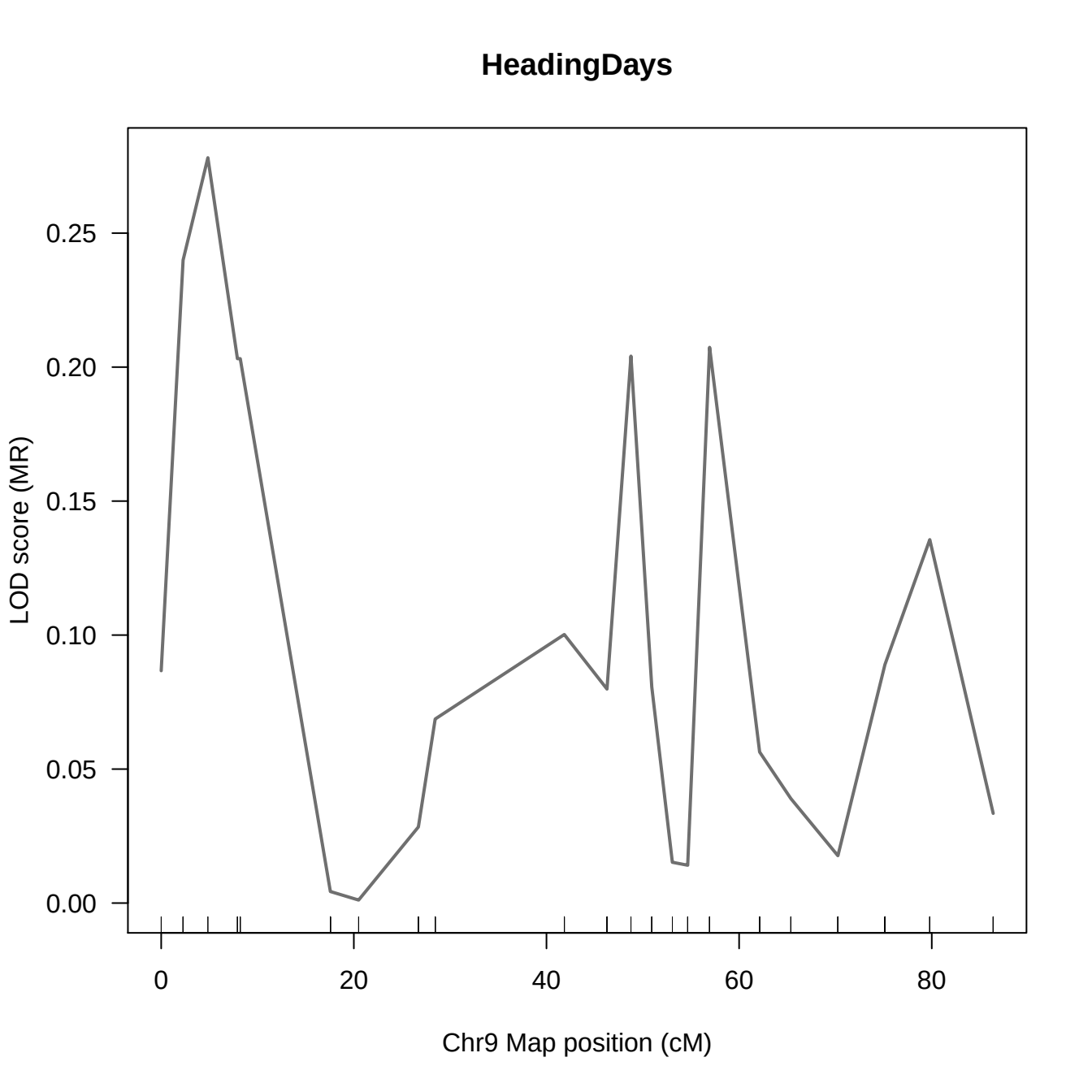

HeadingDays
LOD score (EM)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
100
120
Chr7 Map position (cM)

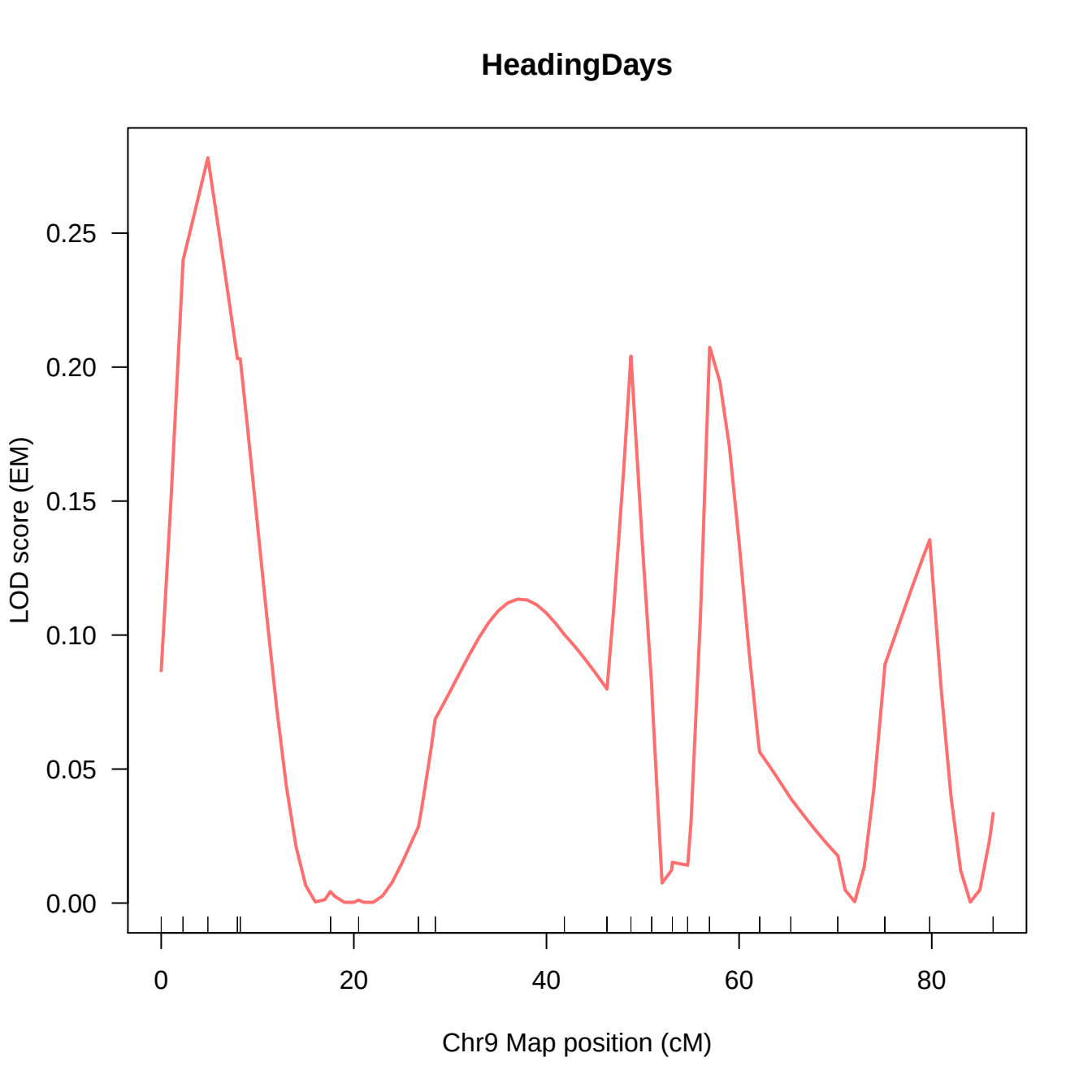

HeadingDays
LOD score
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
100
120
Chr7 Map position (cM)

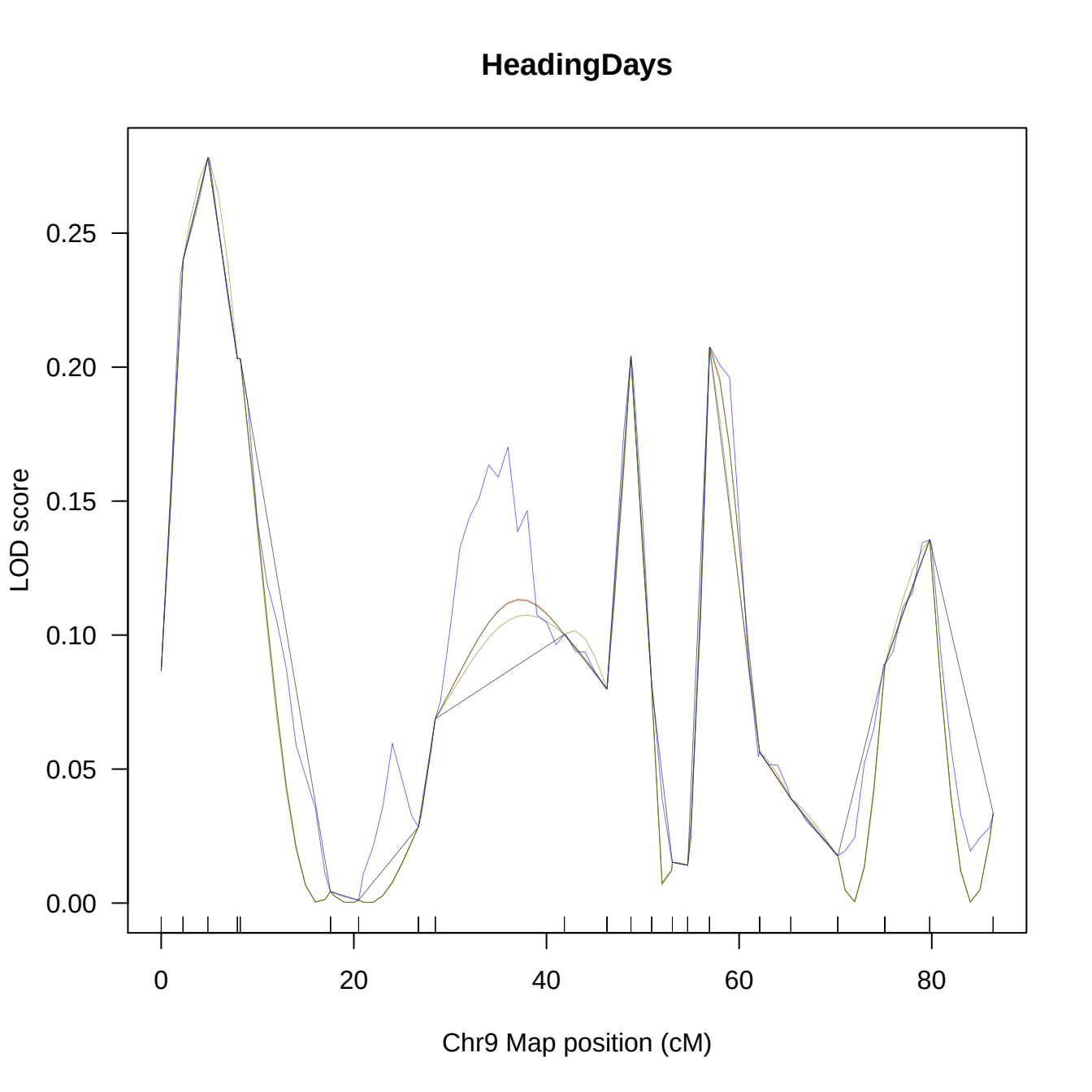

HeadingDays
LOD score (MR)
0.00
0.05
0.10
0.15
0.20
0
20
40
60
80
100
Chr8 Map position (cM)

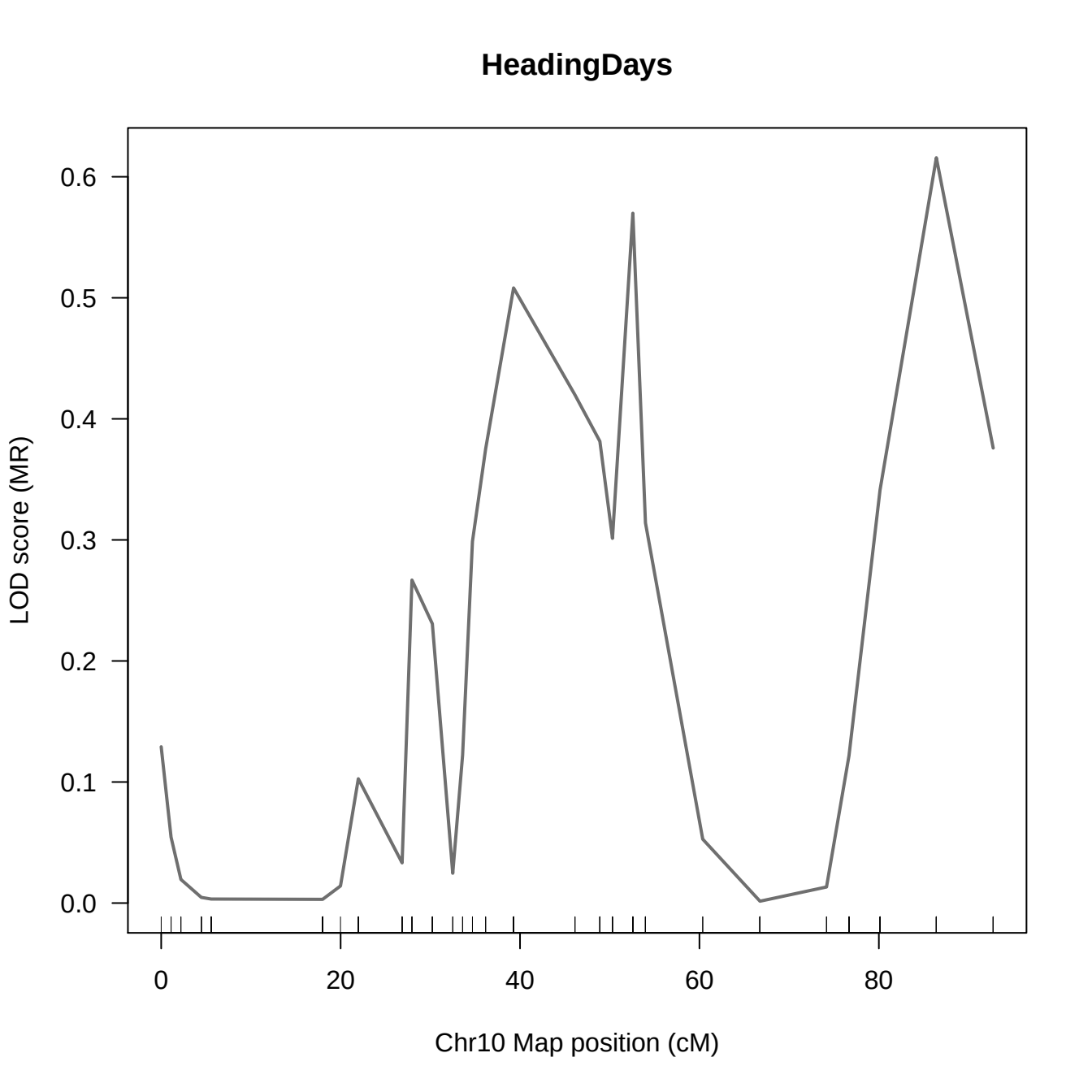

HeadingDays
0.20
0.15
0.10
0.05
0.00
LOD score (EM)
0
20
40
60
80
100
Chr8 Map position (cM)

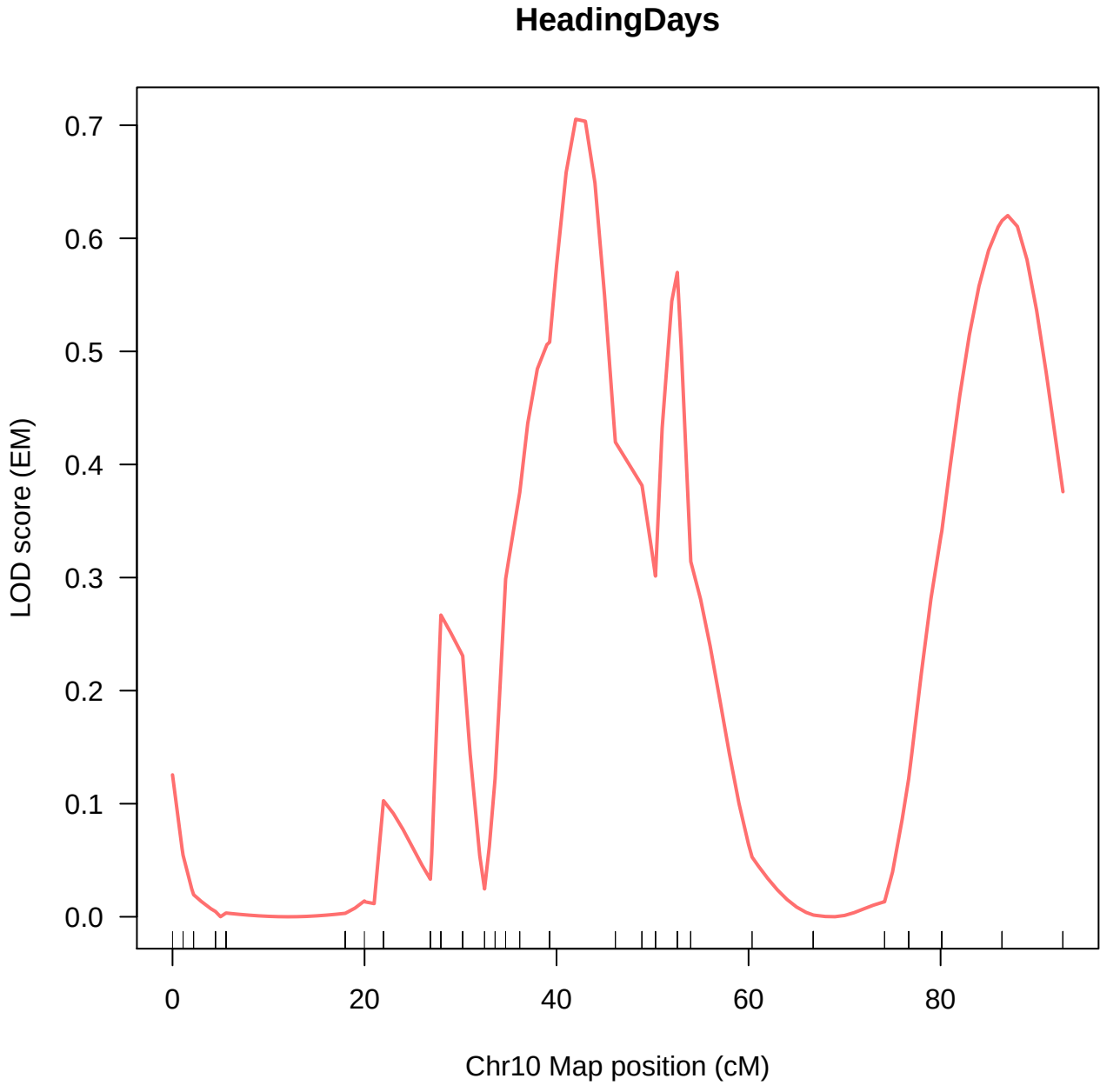

HeadingDays
LOD score
0.00
0.05
0.10
0.15
0.20
0
20
40
60
80
100
Chr8 Map position (cM)

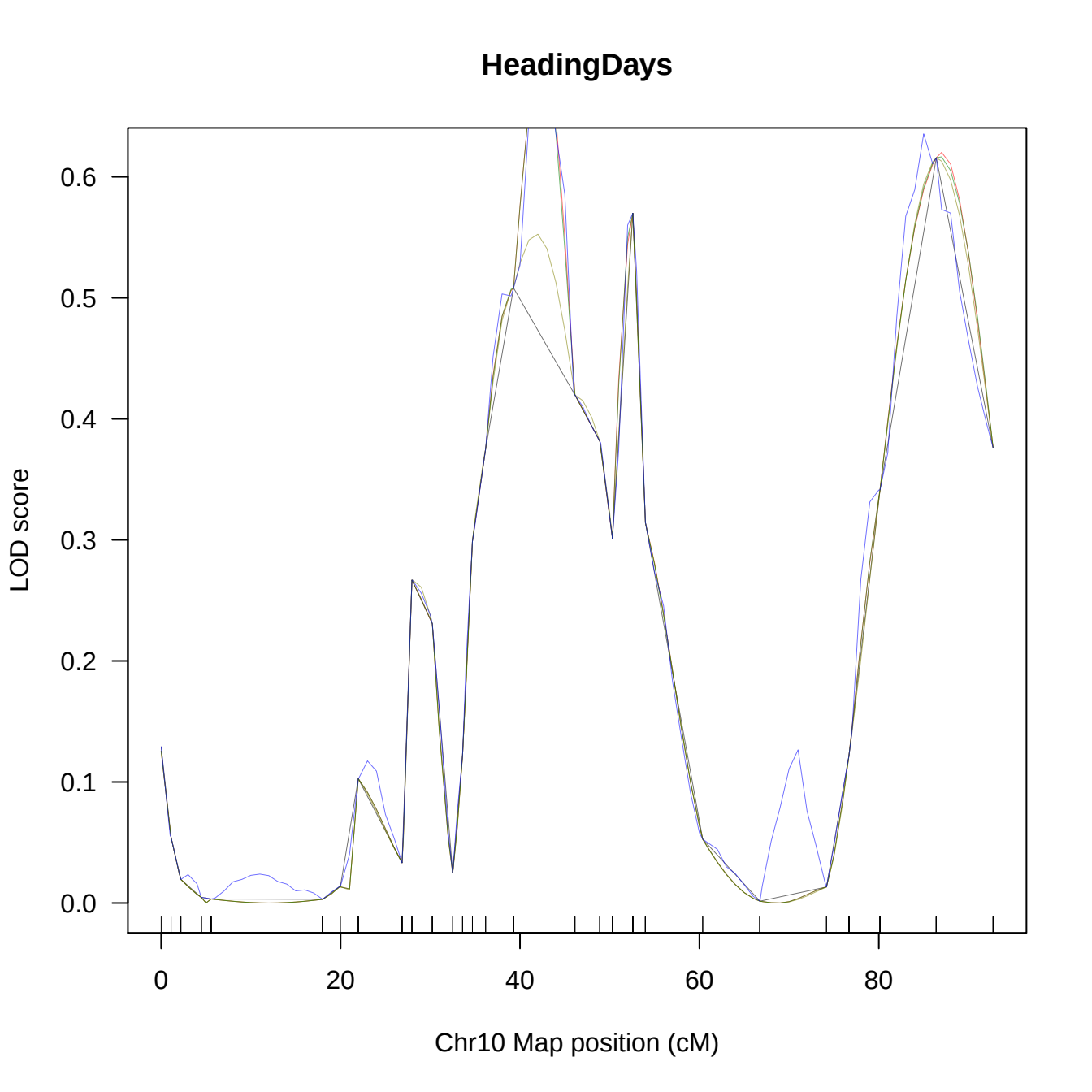

HeadingDays
LOD score (MR)
0.25
0.20
0.15
0.10
0.05
0.00
0
20
40
60
80
Chr9 Map position (cM)

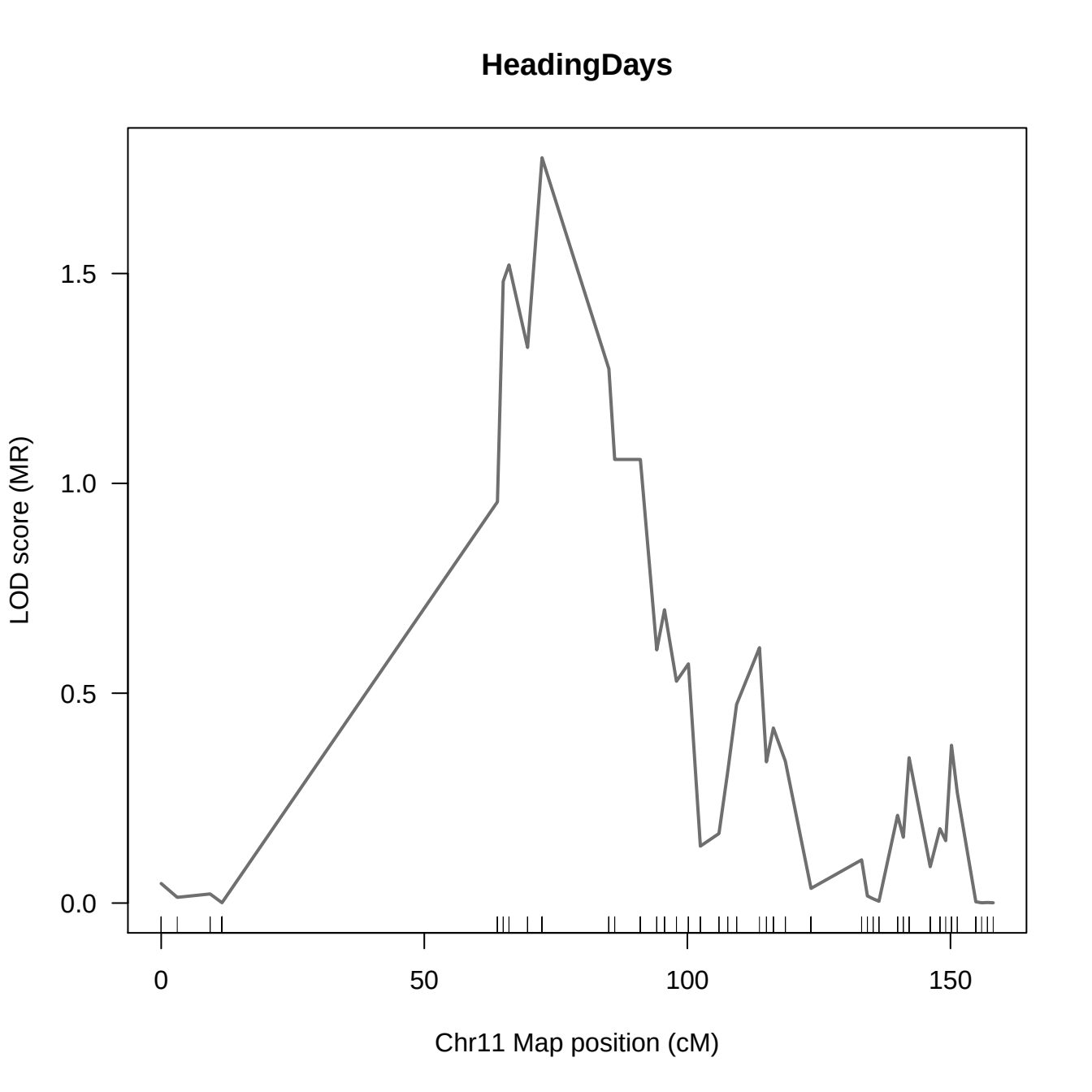

HeadingDays
LOD score (EM)
0.25
0.20
0.15
0.10
0.05
0.00
0
20
40
60
80
Chr9 Map position (cM)

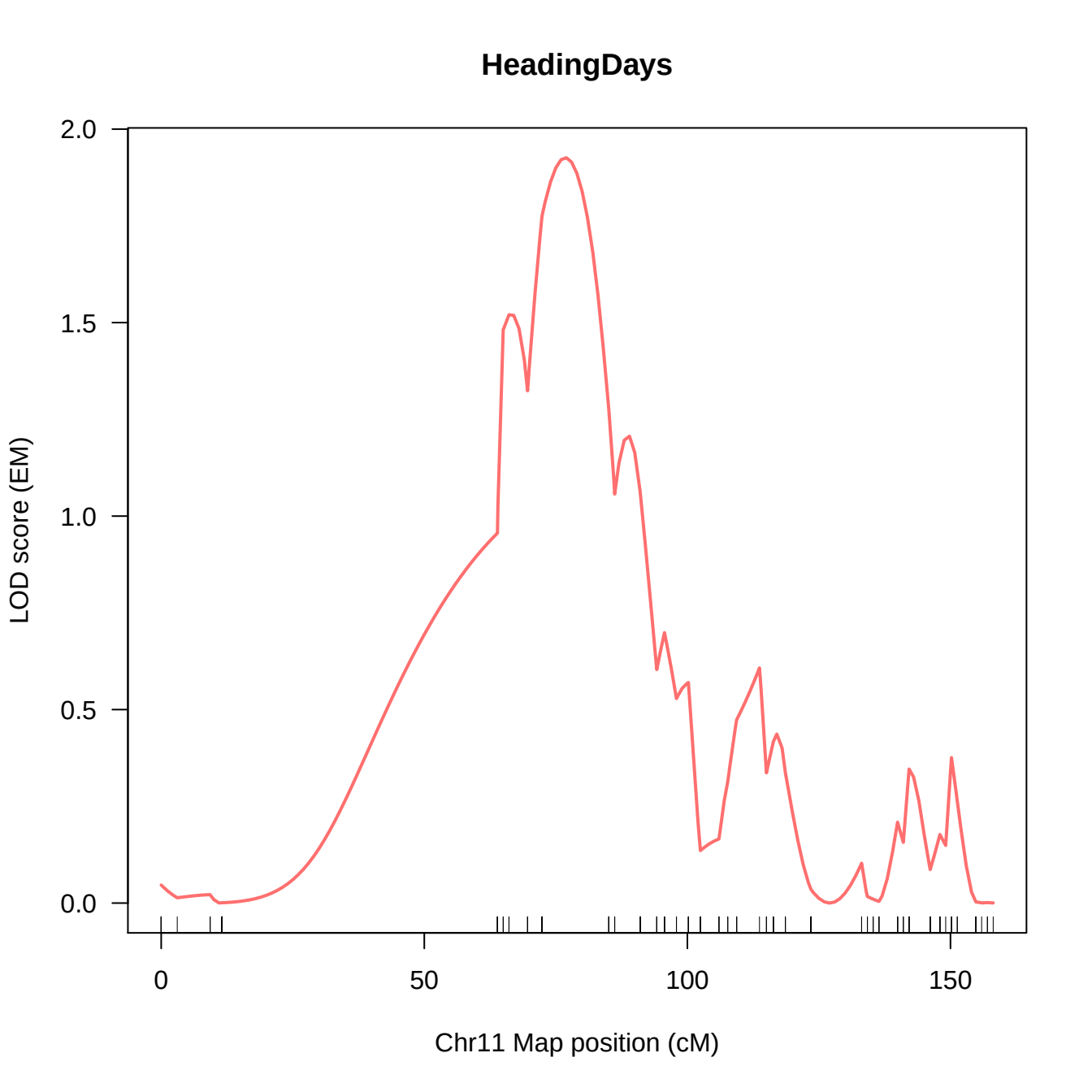

HeadingDays
LOD score
0.25
0.20
0.15
0.10
0.05
0.00
0
20
40
60
80
Chr9 Map position (cM)

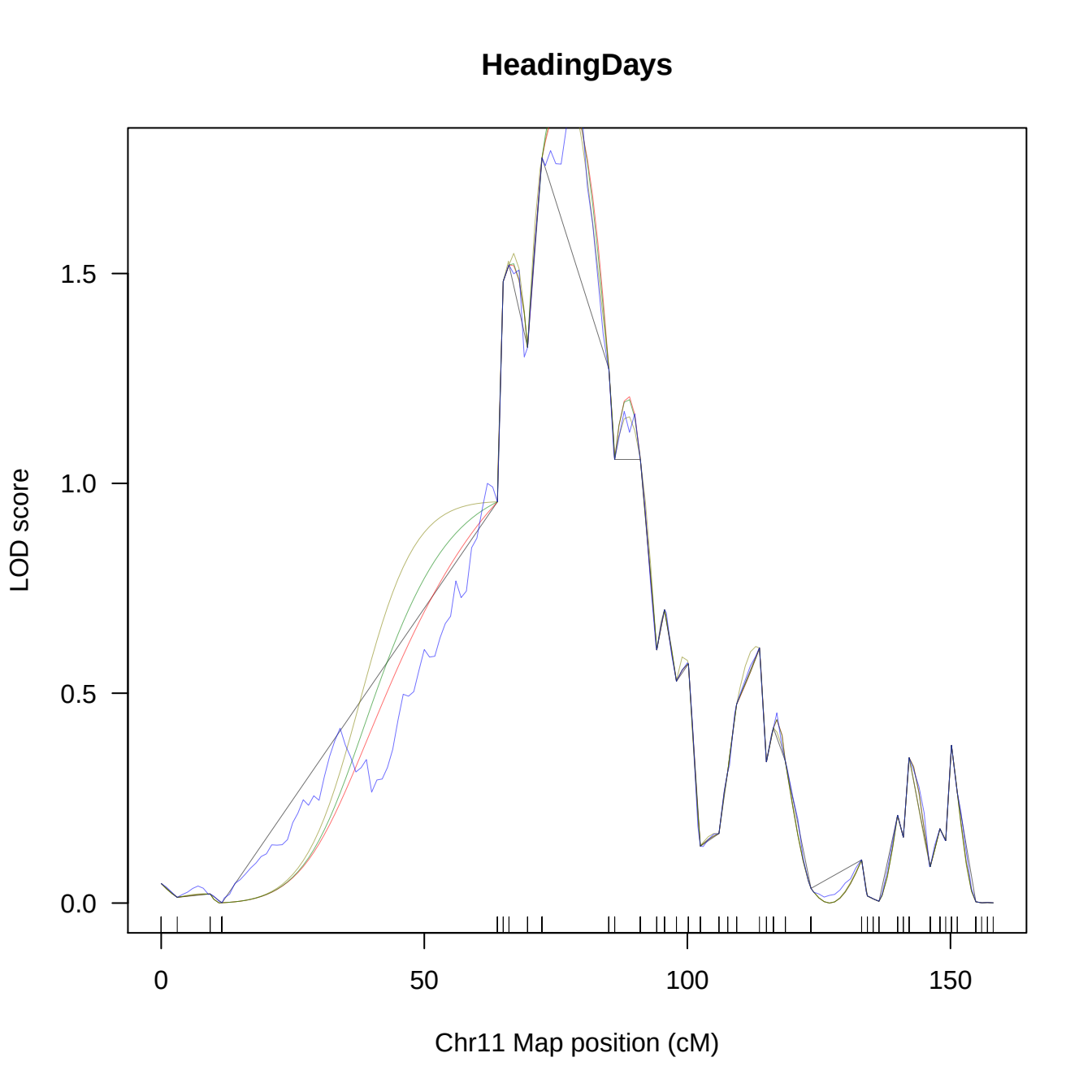

HeadingDays
LOD score (MR)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0
20
40
60
80
Chr10 Map position (cM)

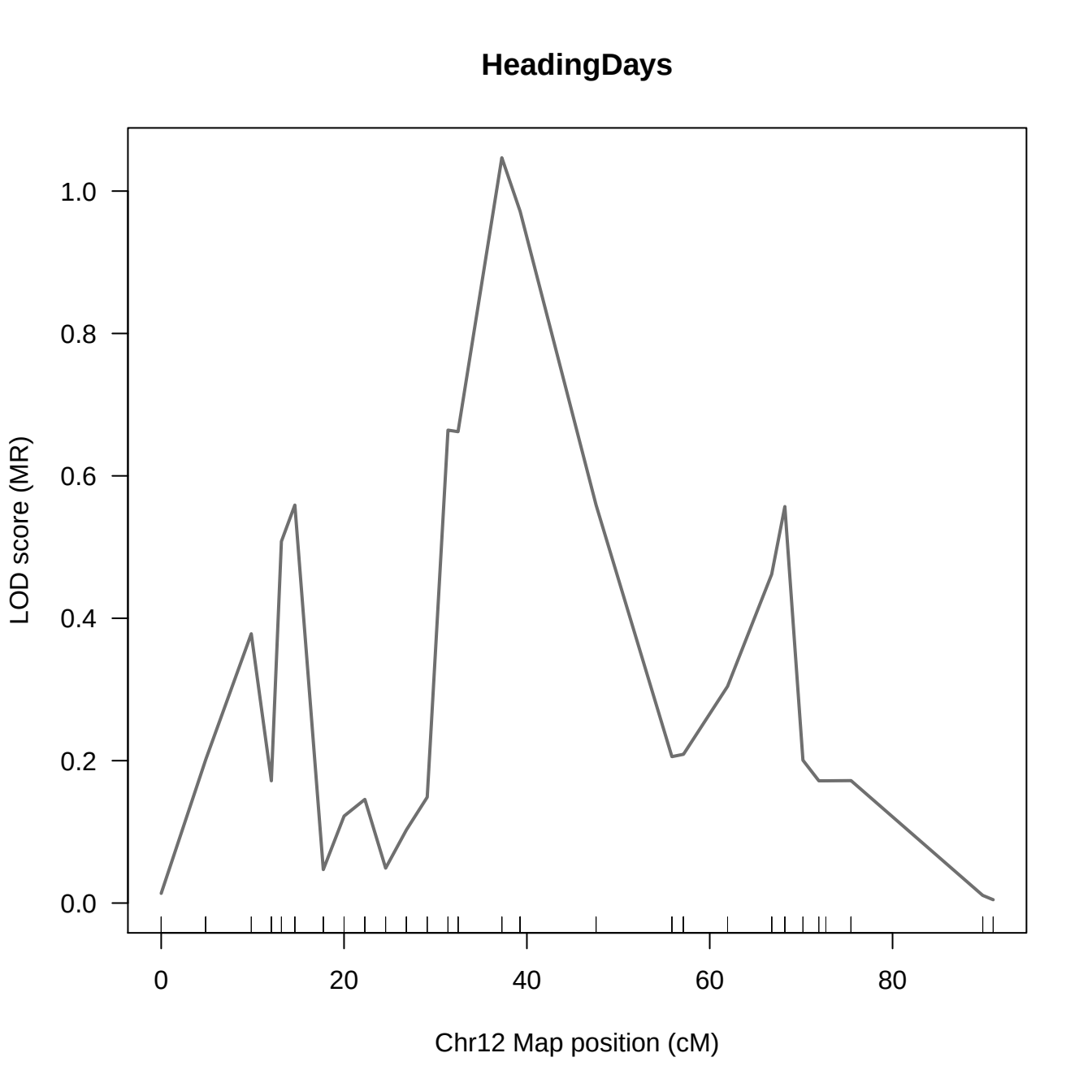

HeadingDays
LOD score (EM)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0
20
40
60
80
Chr10 Map position (cM)

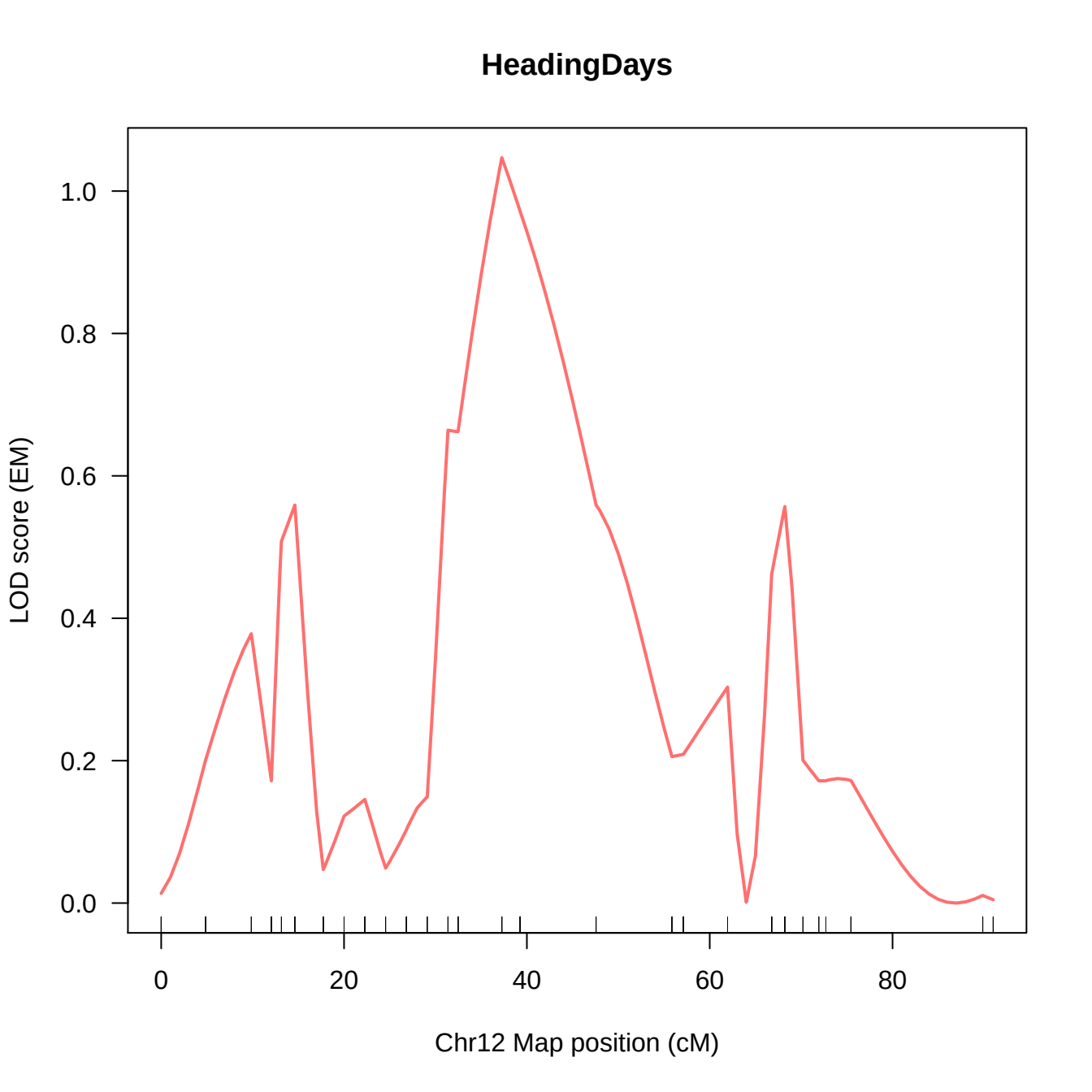

HeadingDays
LOD score
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0
20
40
60
80
Chr10 Map position (cM)

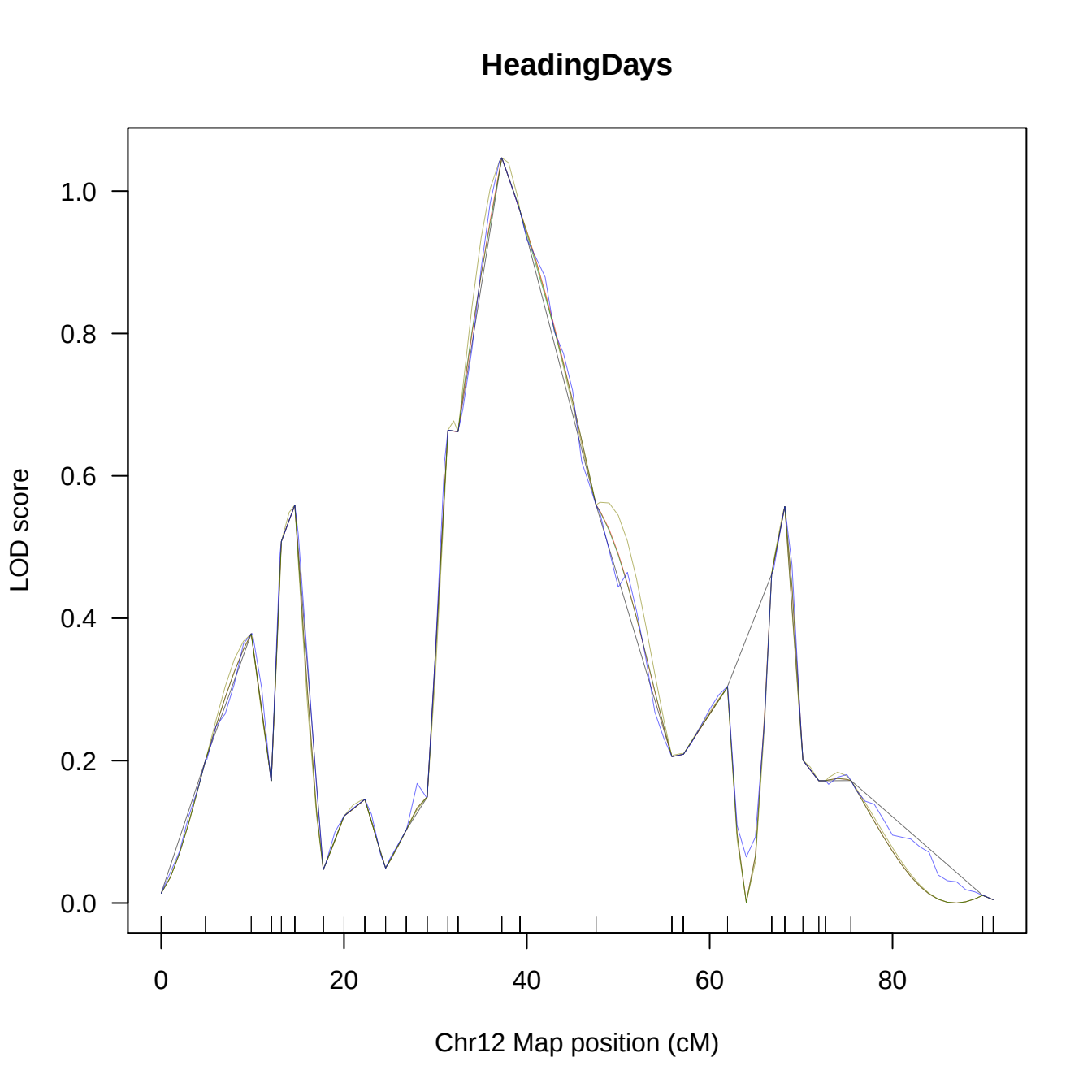

HeadingDays
LOD score (MR)
0.0
0.5
1.0
1.5
0
50
100
150
Chr11 Map position (cM)

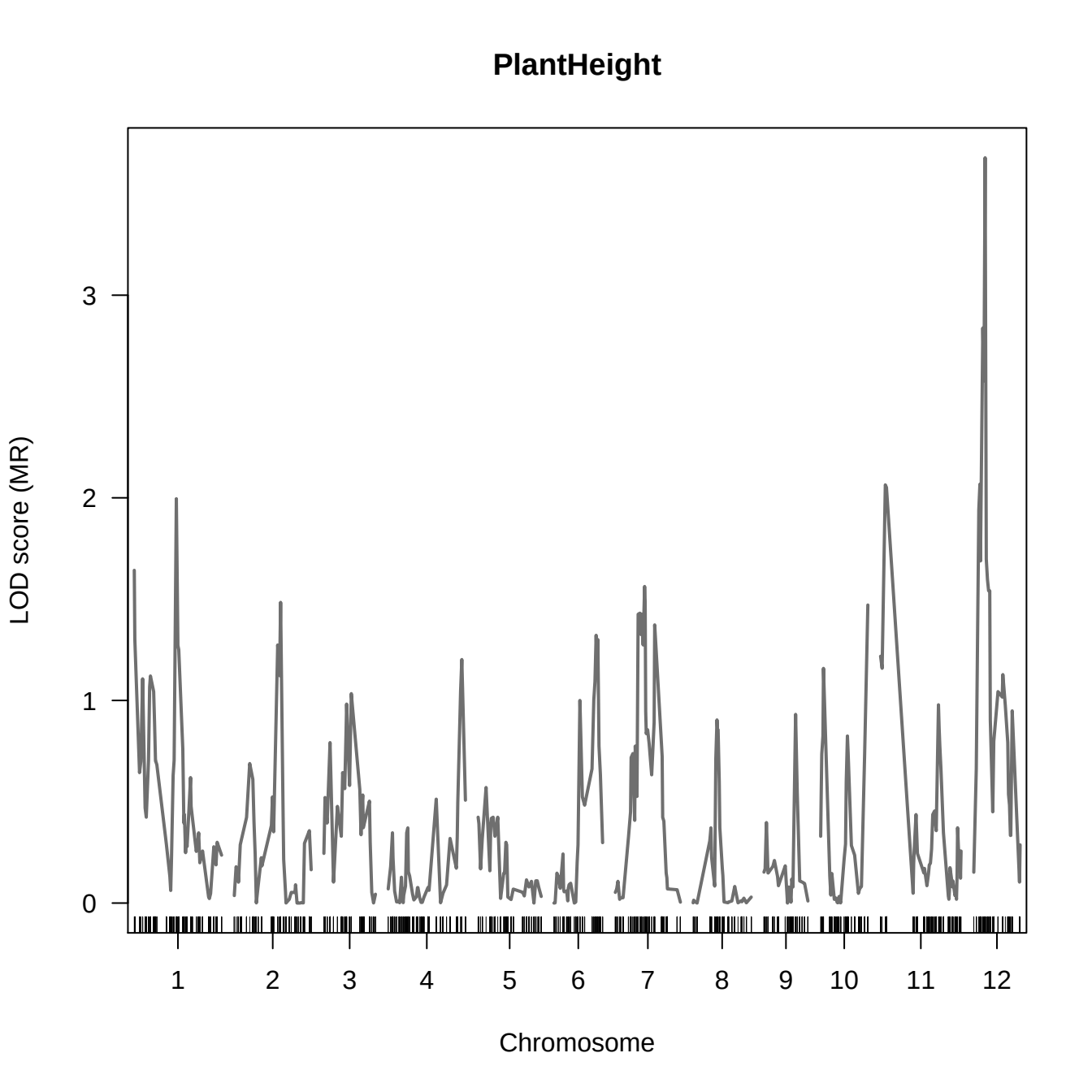

HeadingDays
2.0
1.5
1.0
0.5
0.0
LOD score (EM)
0
50
100
150
Chr11 Map position (cM)

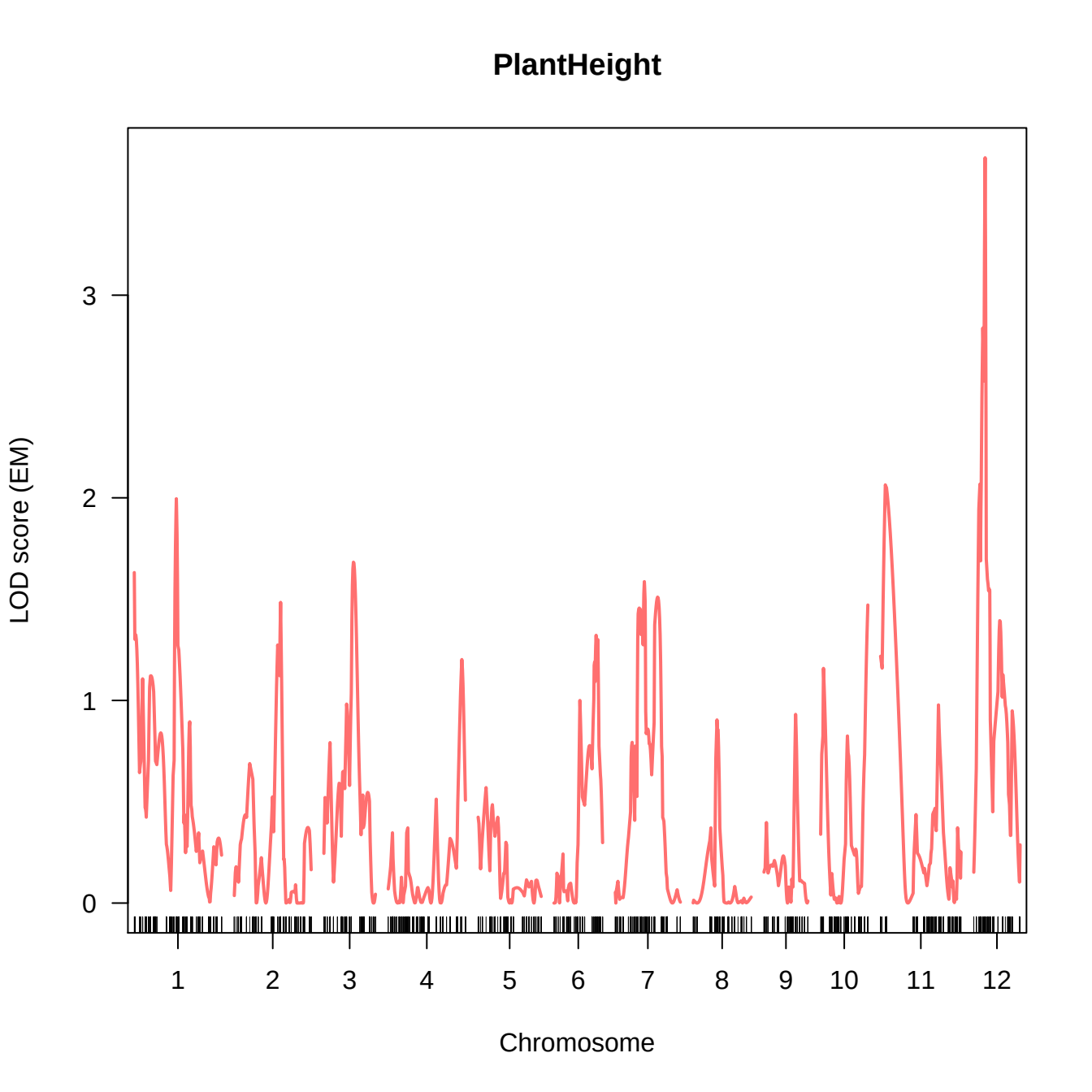

HeadingDays
LOD score
0.0
0.5
1.0
1.5
0
50
100
150
Chr11 Map position (cM)

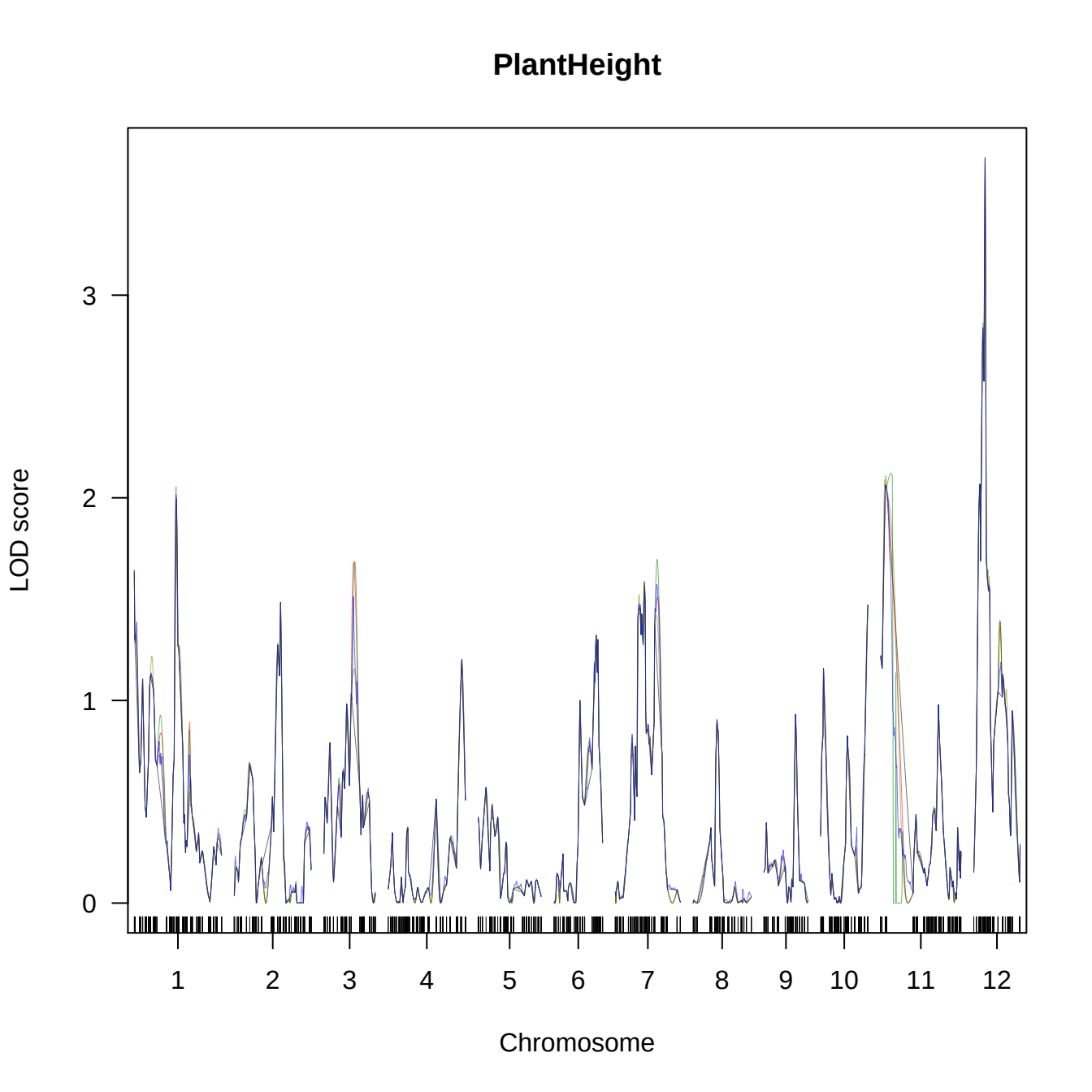

HeadingDays
LOD score (MR)
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
Chr12 Map position (cM)

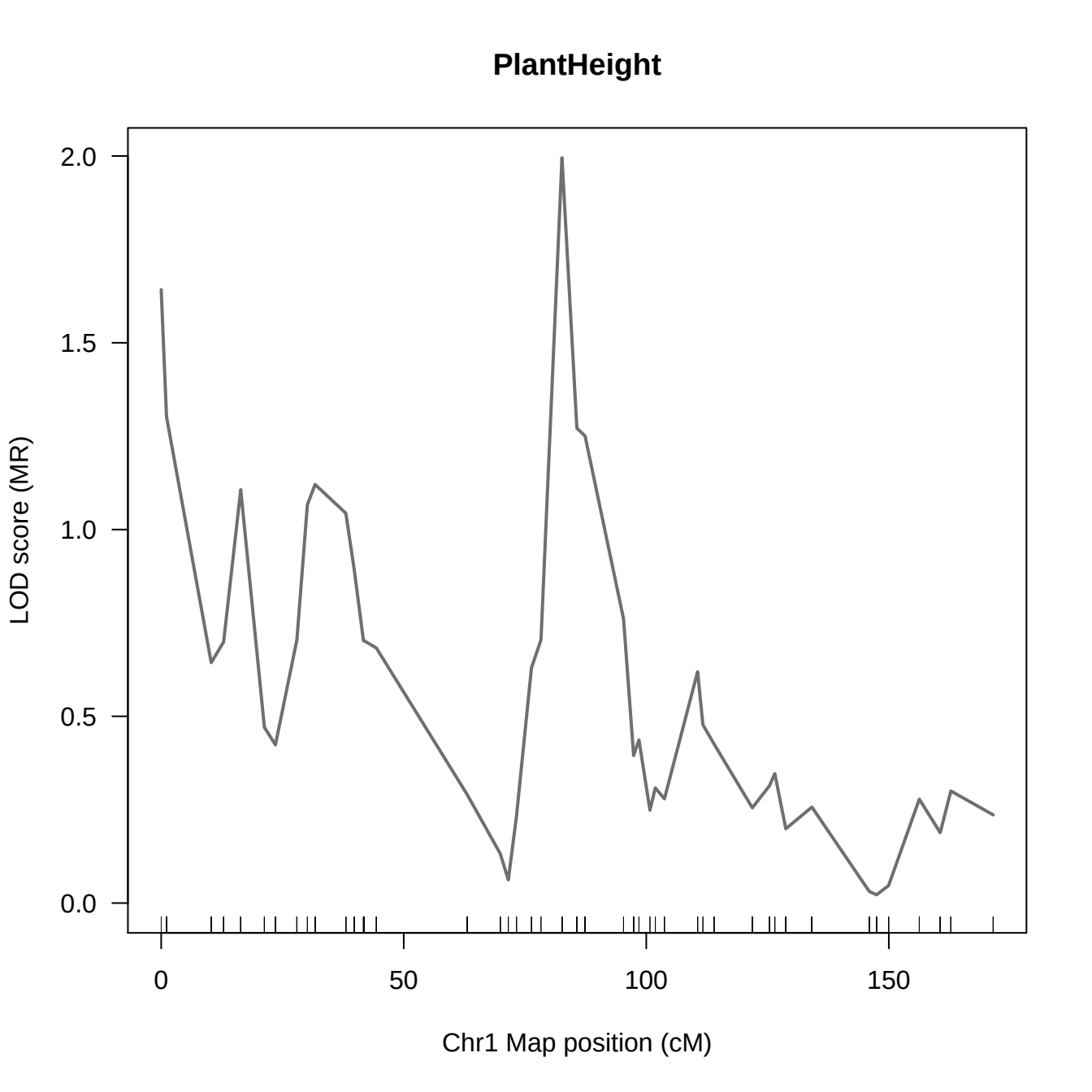

HeadingDays
LOD score (EM)
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
Chr12 Map position (cM)

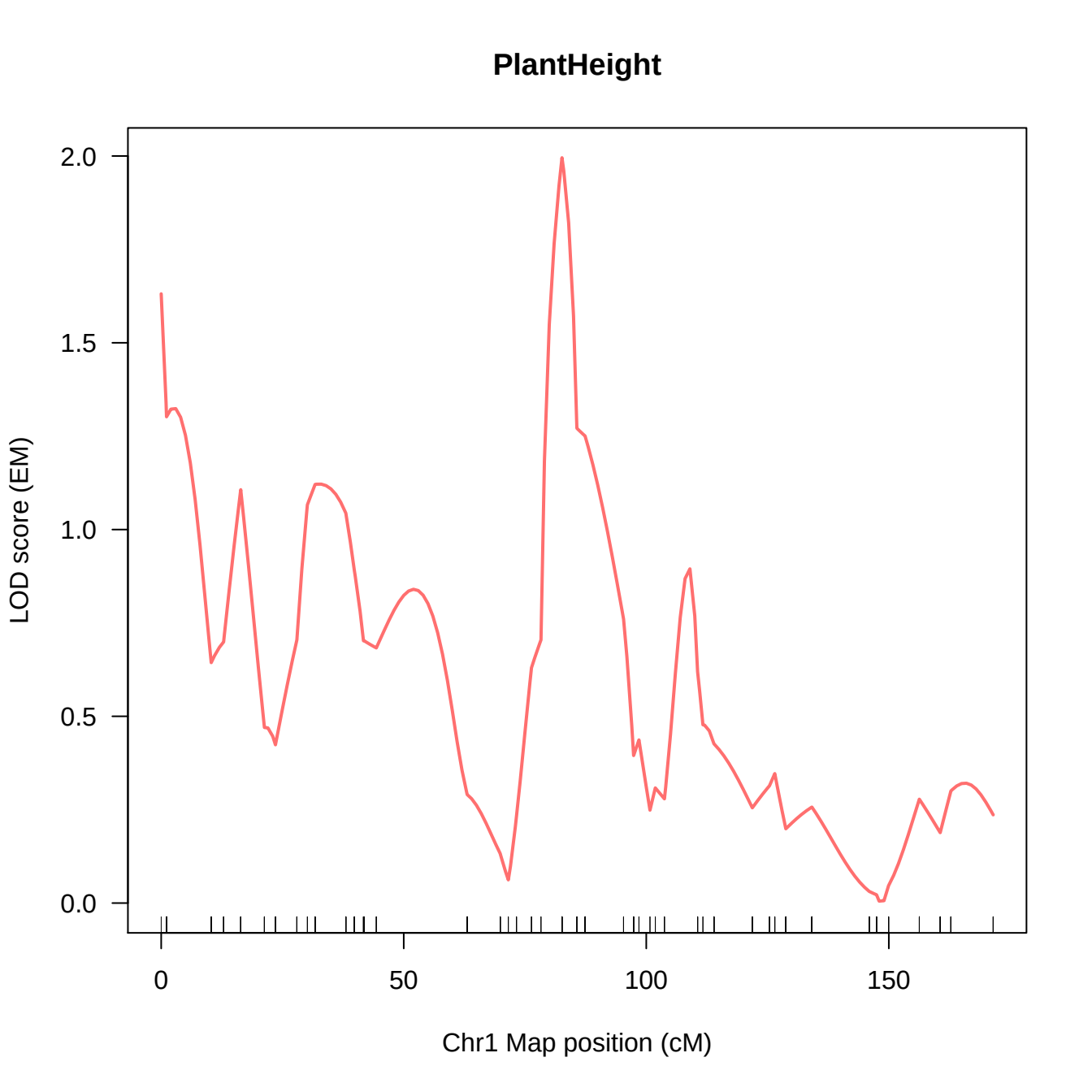

HeadingDays
LOD score
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
Chr12 Map position (cM)

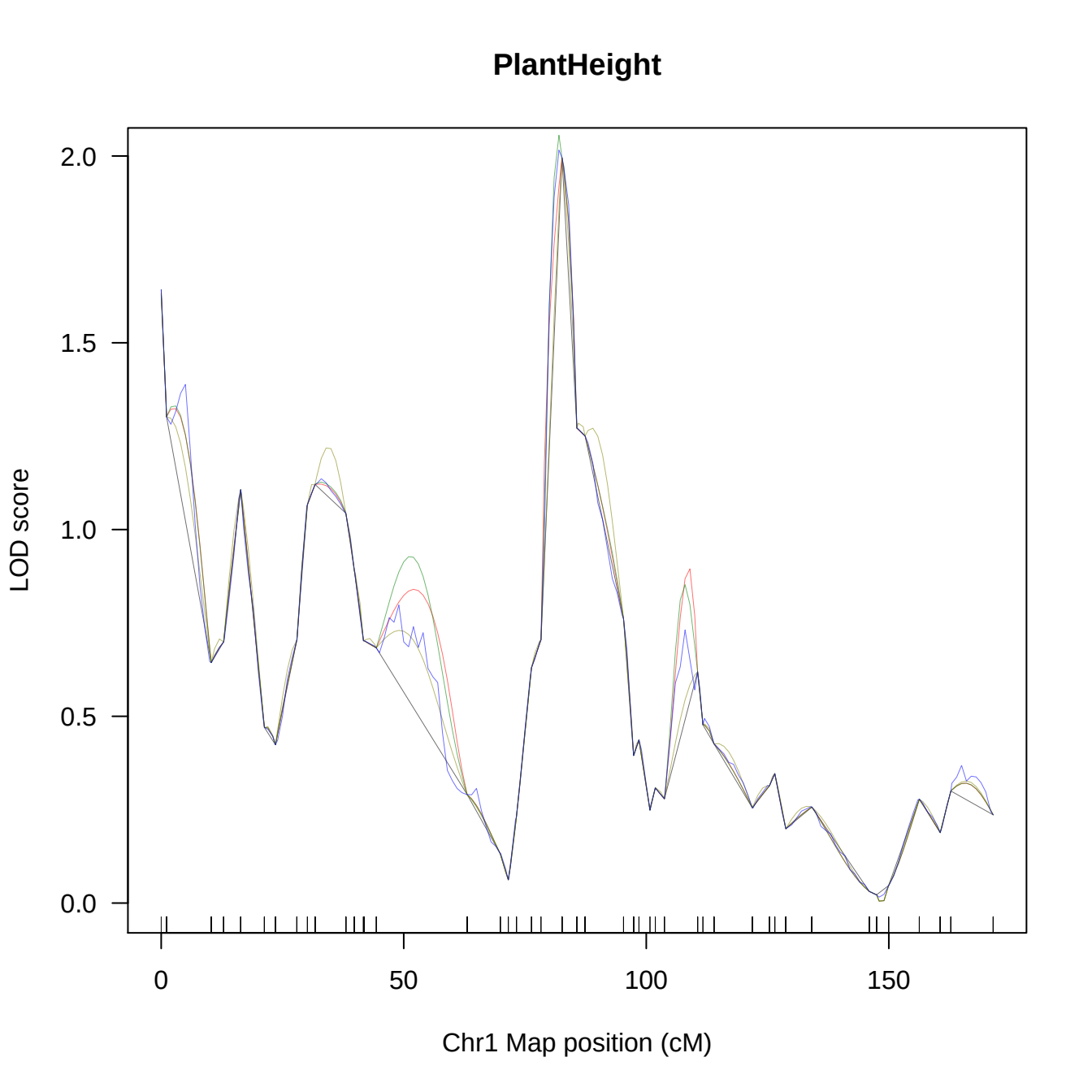

PlantHeight
LOD score (MR)
0
1
2
3
1
2
3
4
5
6
7
8
9
10
11
12
Chromosome

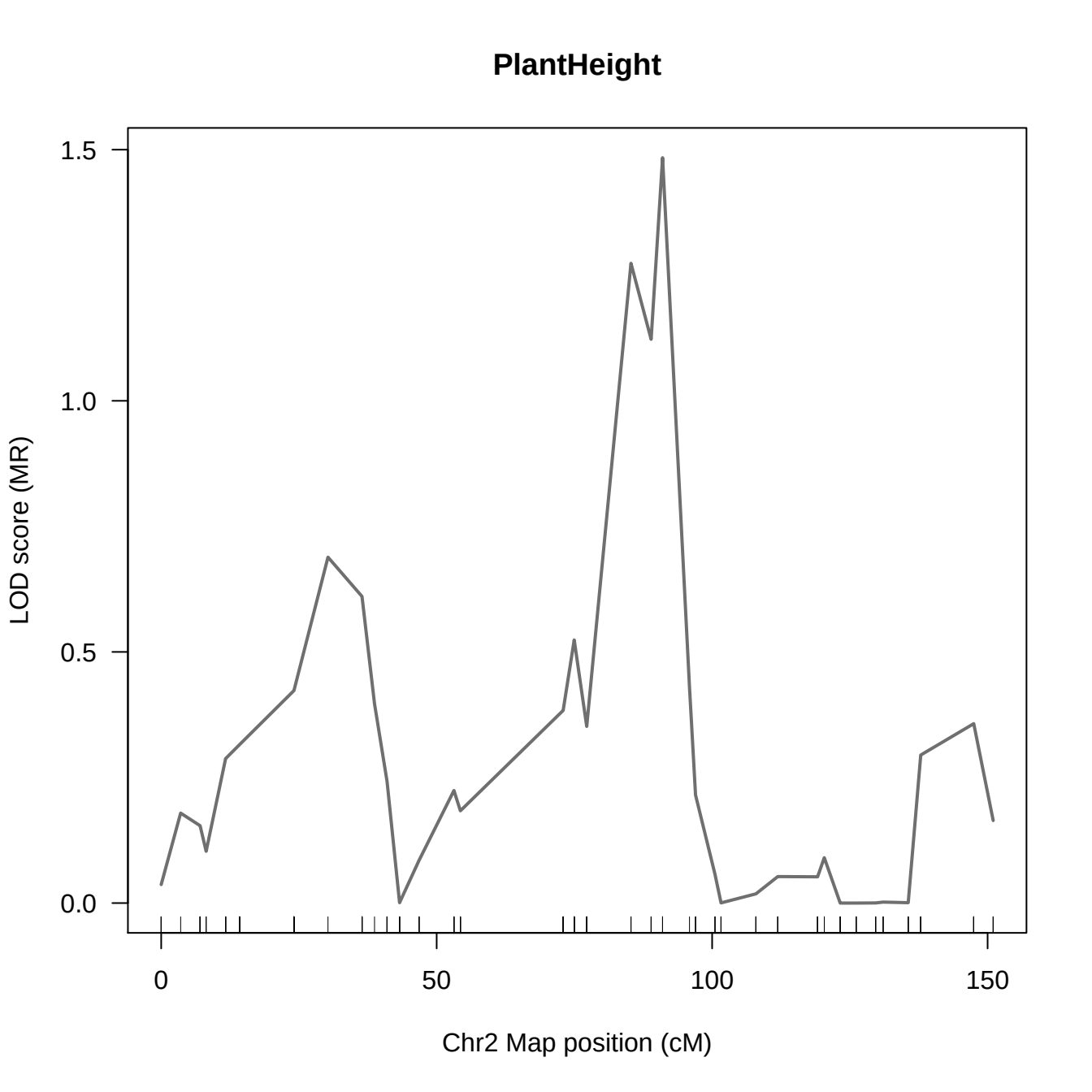

PlantHeight
LOD score (EM)
0
1
2
3
1
2
3
4
5
6
7
8
9
10
11
12
Chromosome

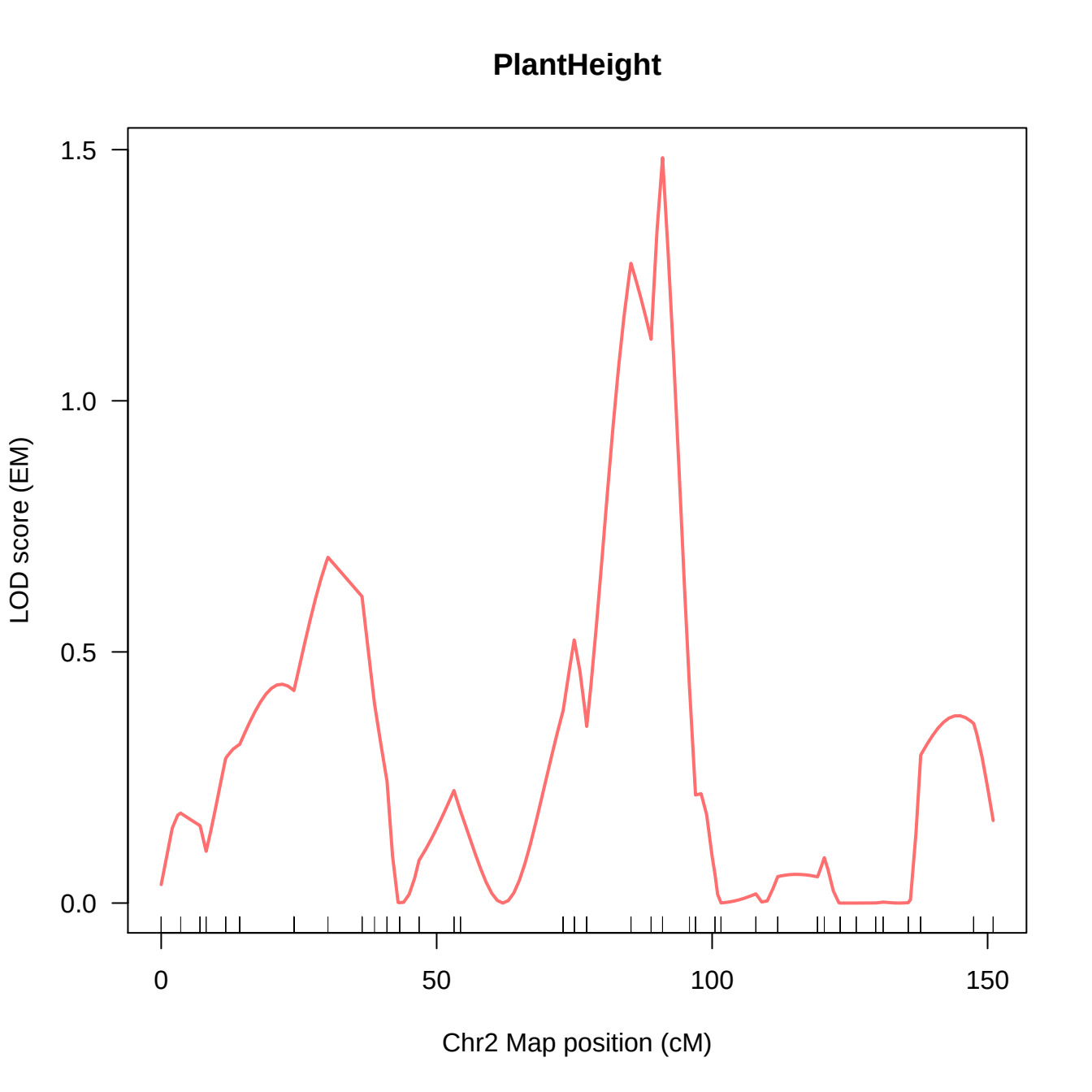

PlantHeight
LOD score
0
1
2
3
1
2
3
4
5
6
7
8
9
10
11
12
Chromosome

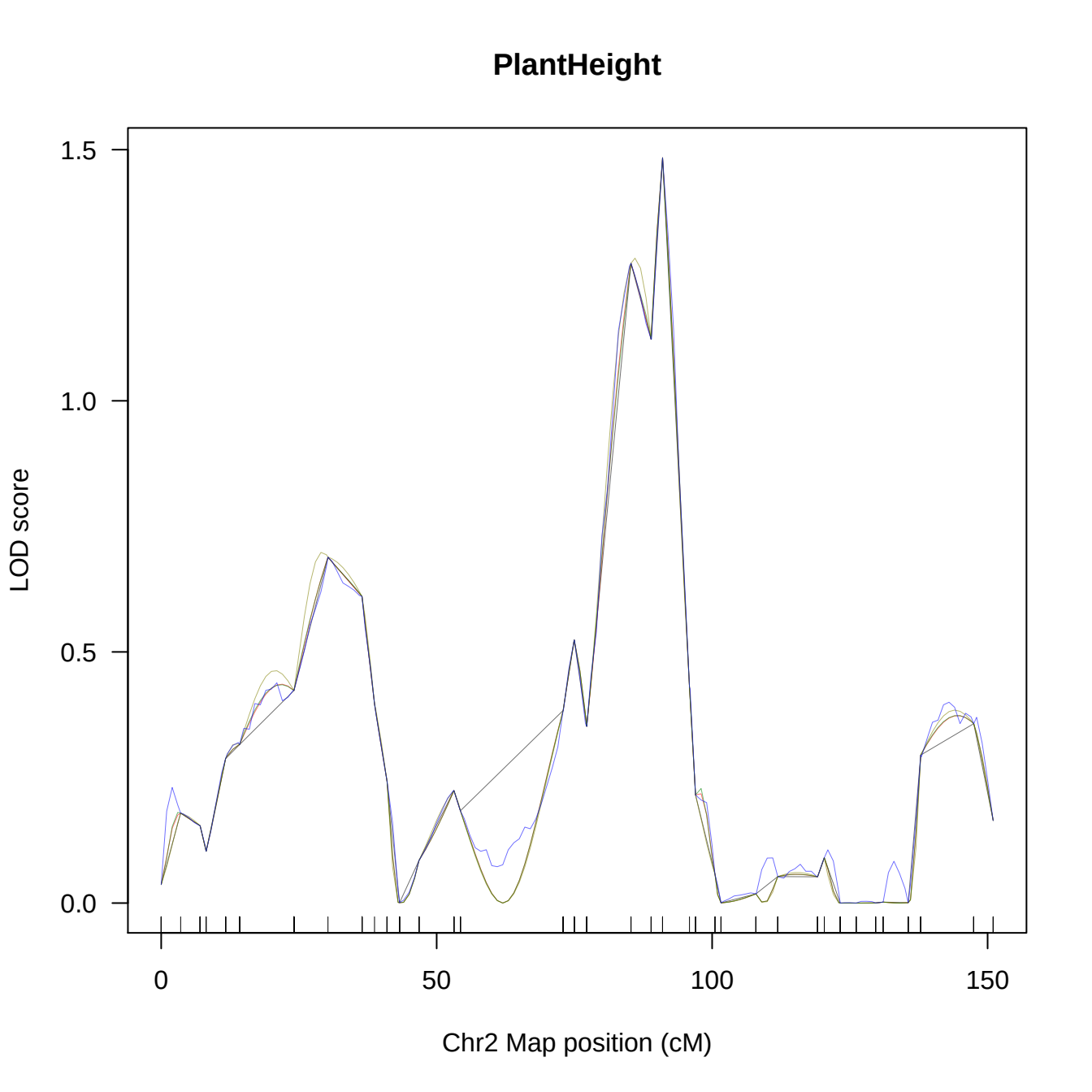

PlantHeight
LOD score (MR)
2.0
1.5
1.0
0.5
0.0
0
50
100
150
Chr1 Map position (cM)

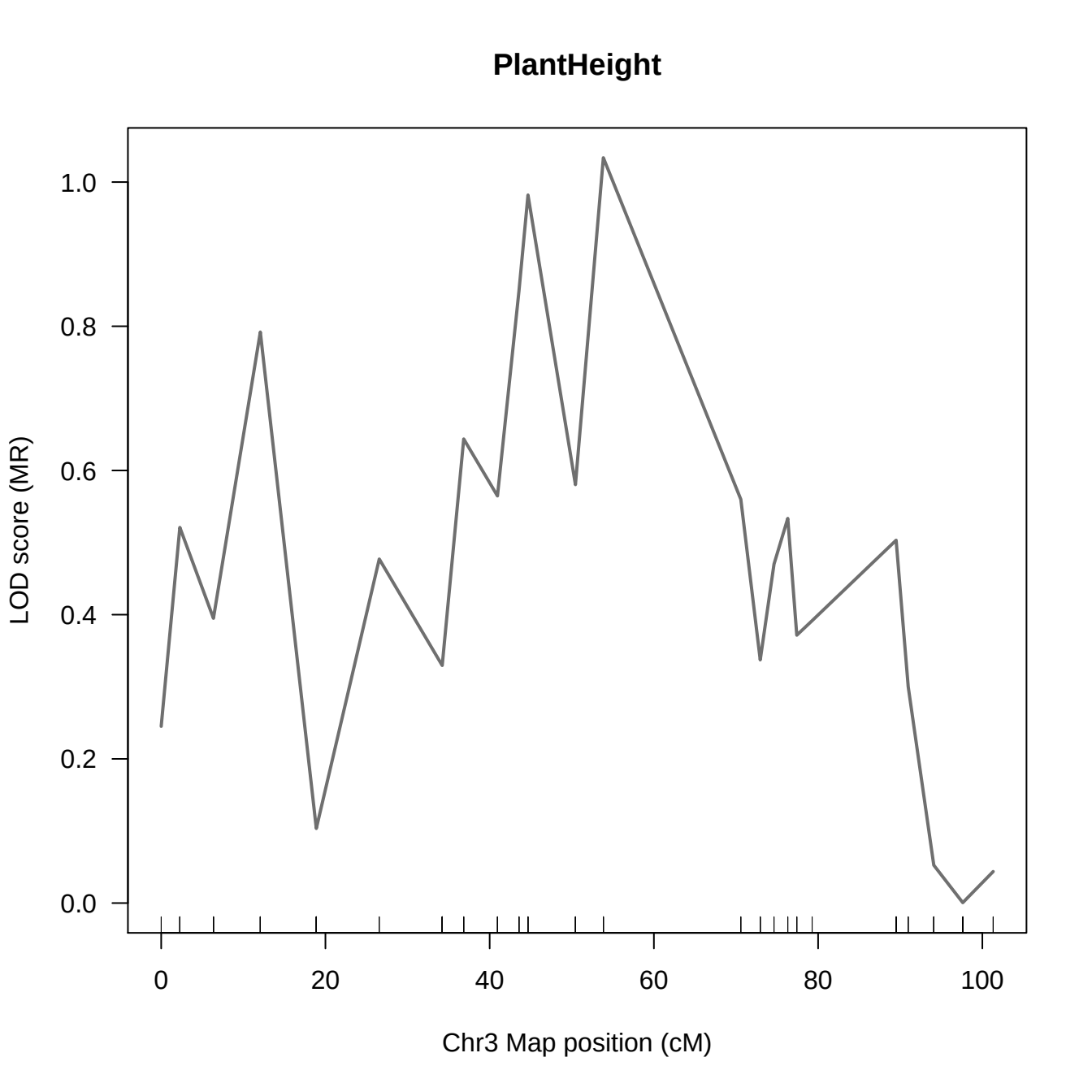

PlantHeight
LOD score (EM)
2.0
1.5
1.0
0.5
0.0
0
50
100
150
Chr1 Map position (cM)

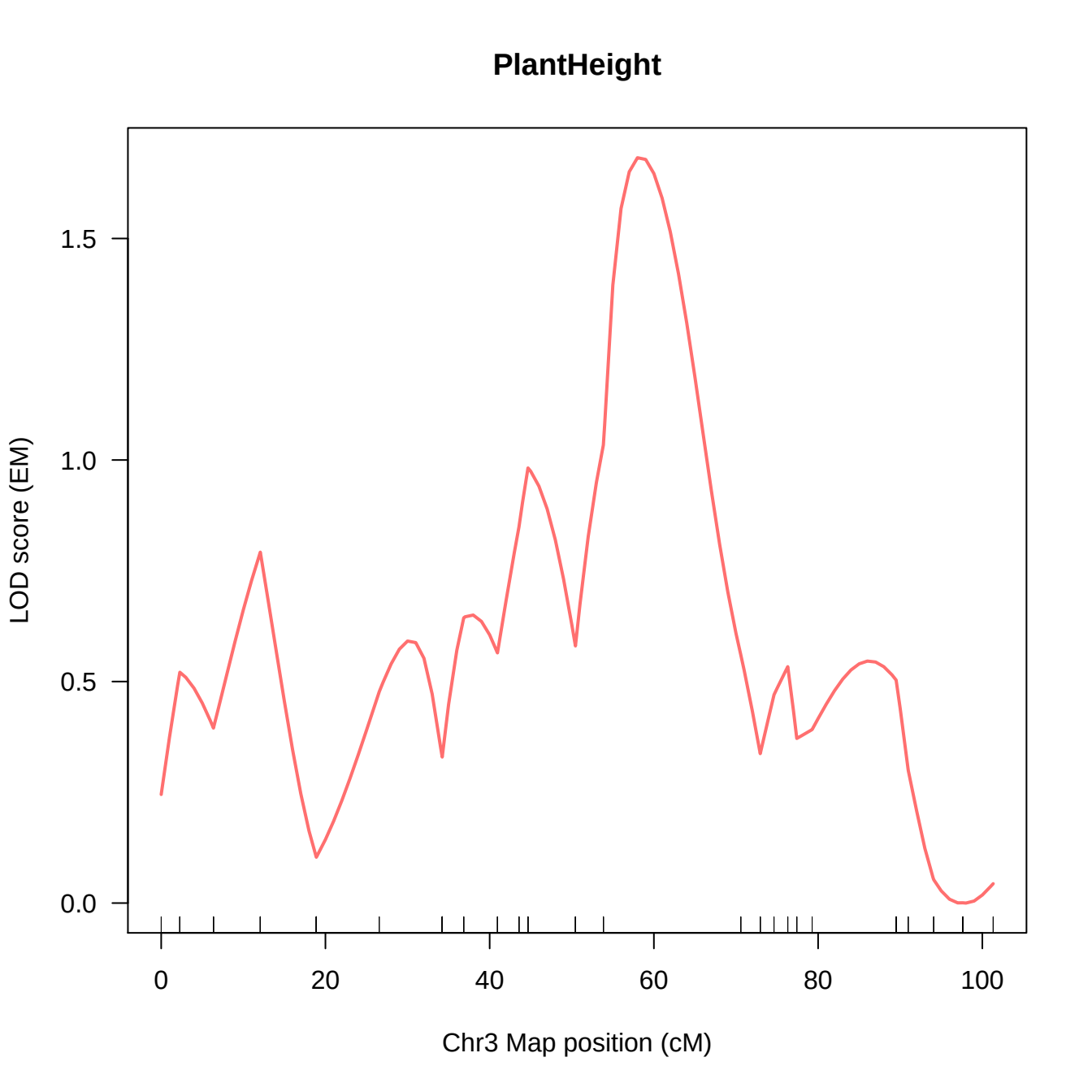

PlantHeight
LOD score
2.0
1.5
1.0
0.5
0.0
0
50
100
150
Chr1 Map position (cM)

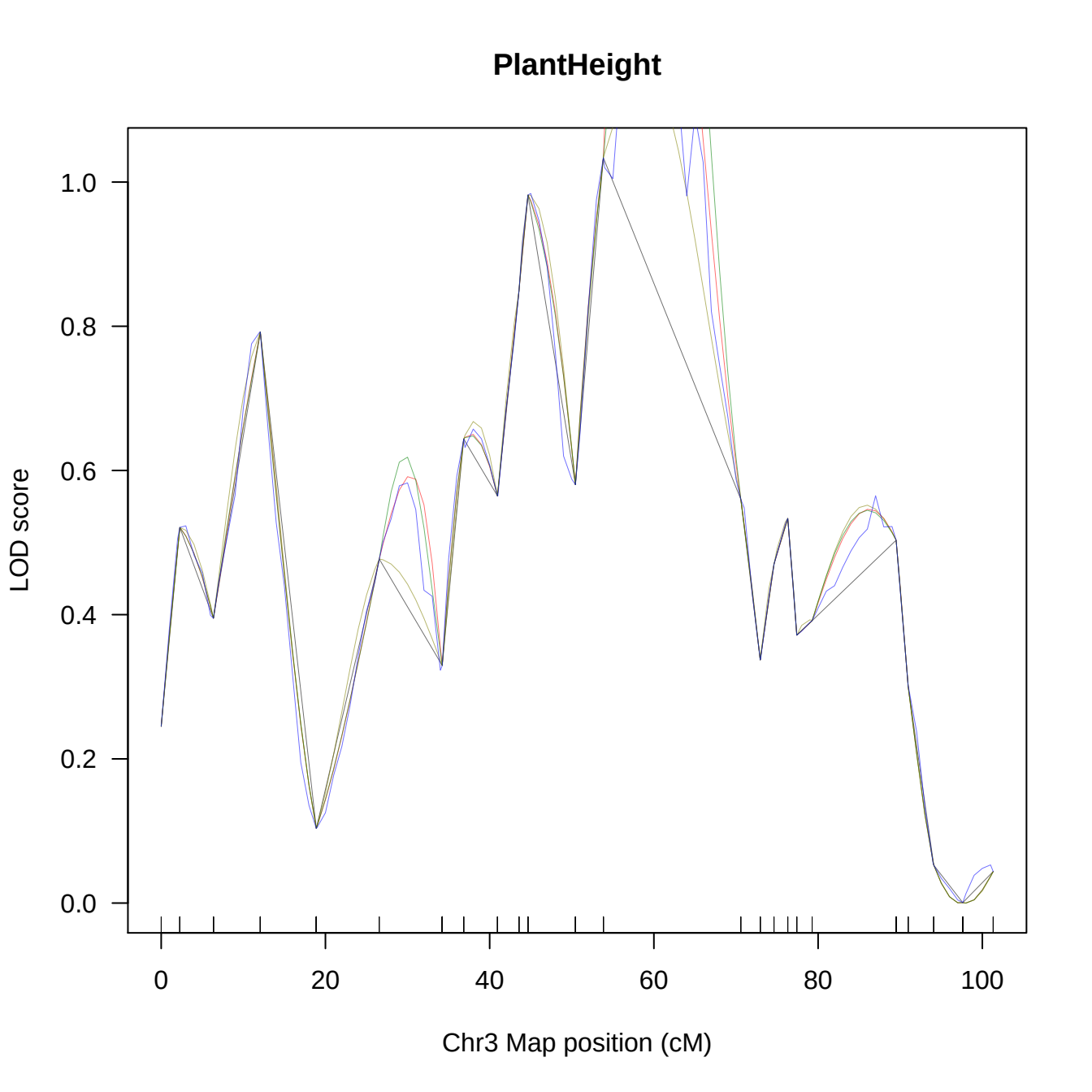

PlantHeight
1.5
1.0
0.5
0.0
LOD score (MR)
0
50
100
150
Chr2 Map position (cM)

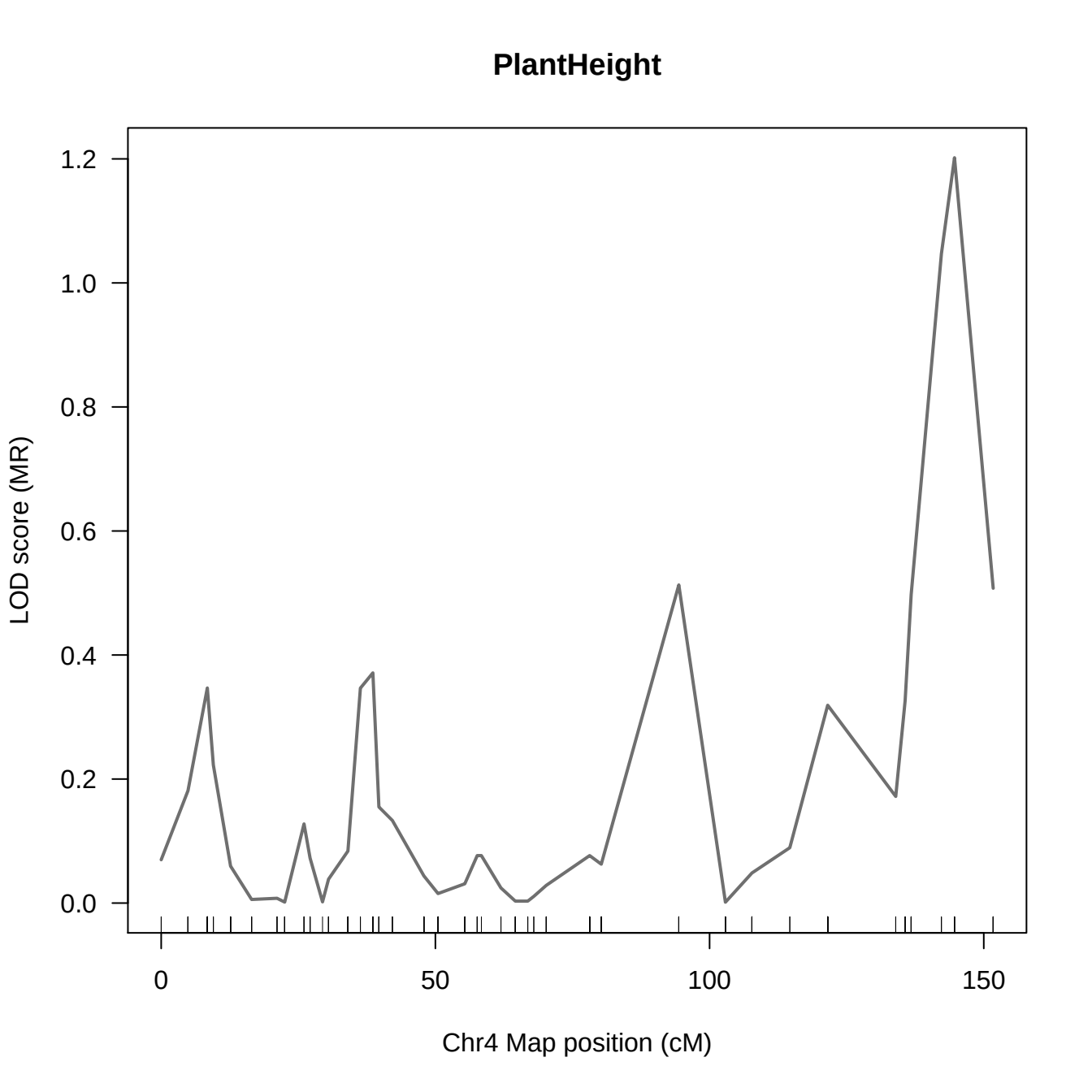

PlantHeight
1.5
1.0
0.5
0.0
LOD score (EM)
0
50
100
150
Chr2 Map position (cM)

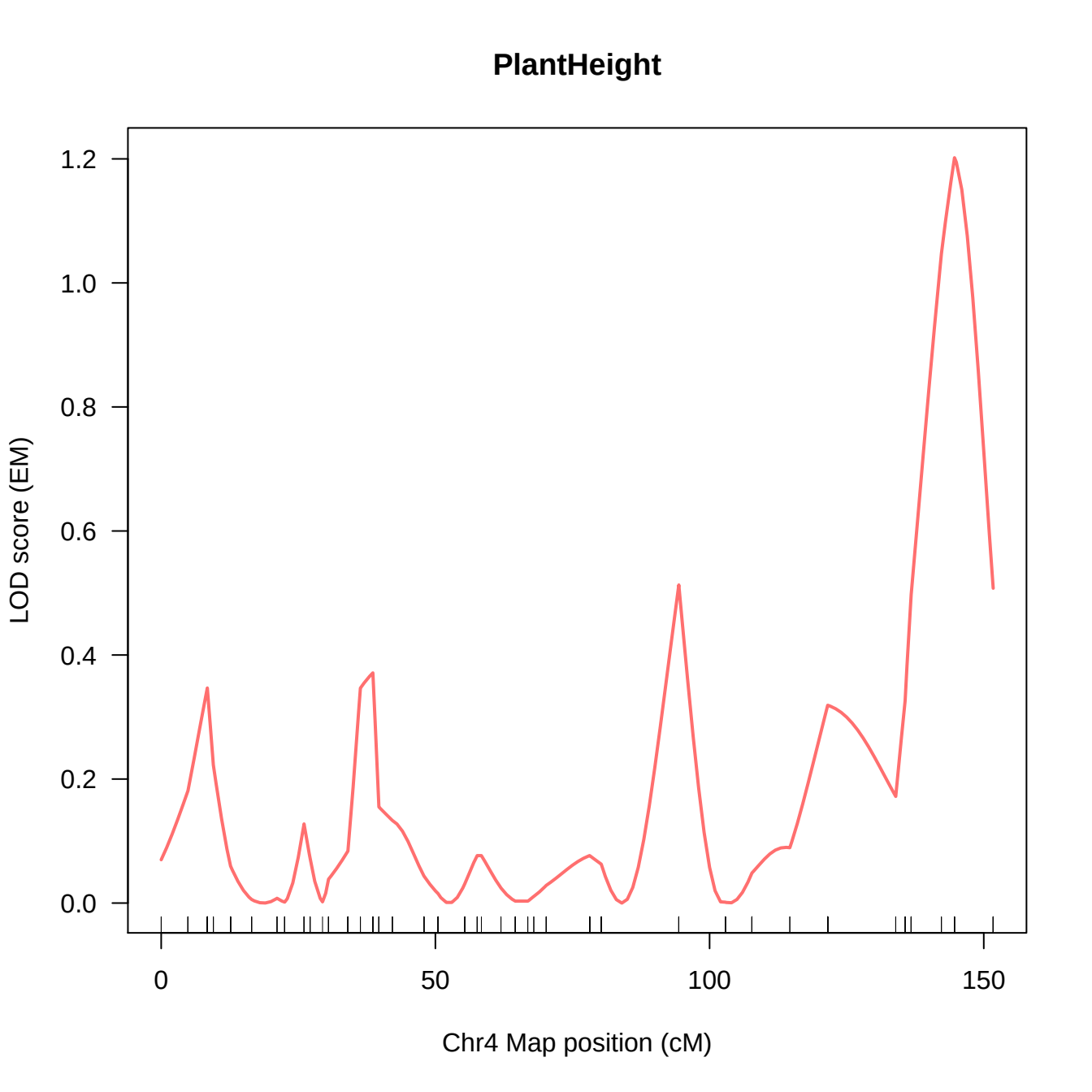

PlantHeight
1.5
1.0
0.5
0.0
LOD score
0
50
100
150
Chr2 Map position (cM)

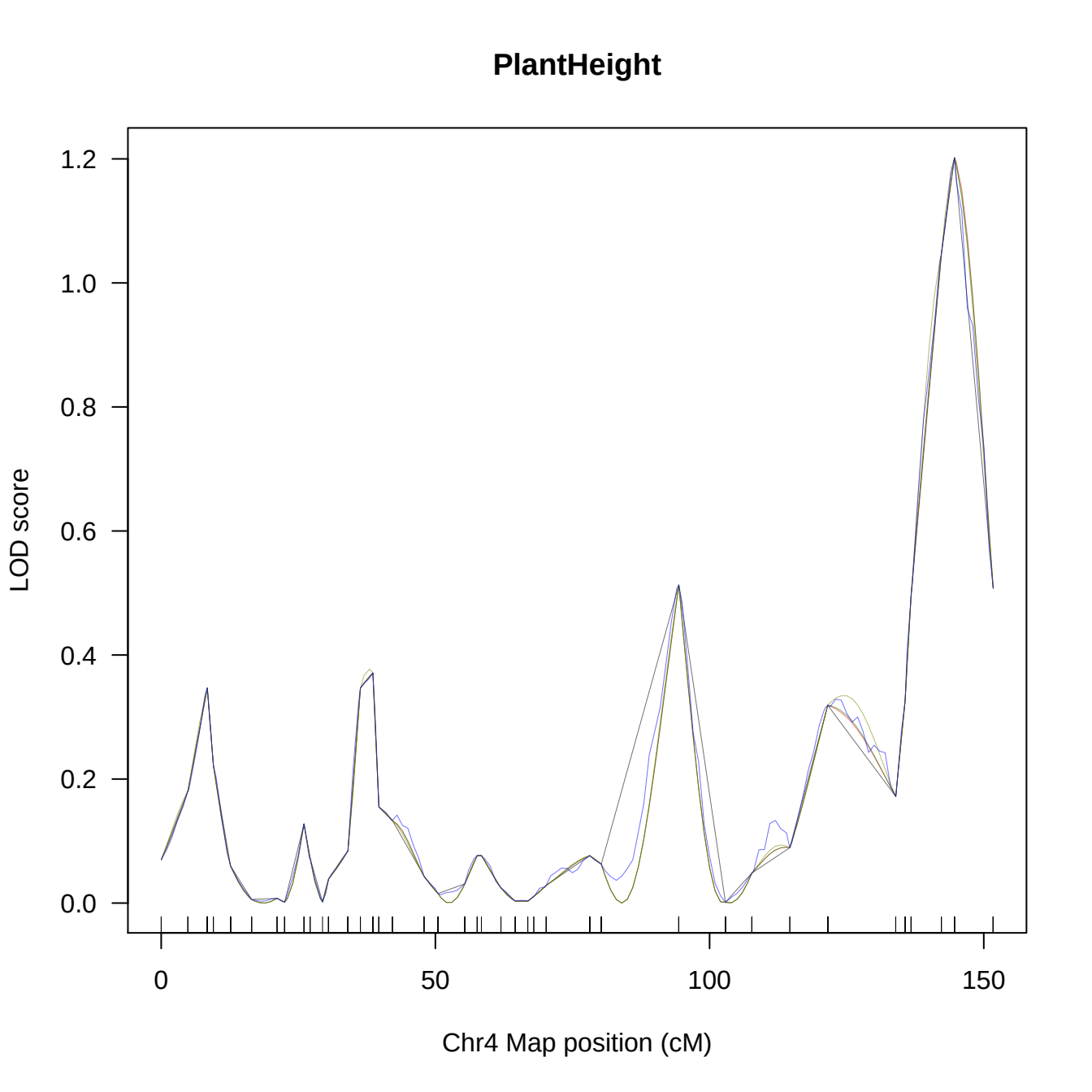

PlantHeight
LOD score (MR)
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
100
Chr3 Map position (cM)

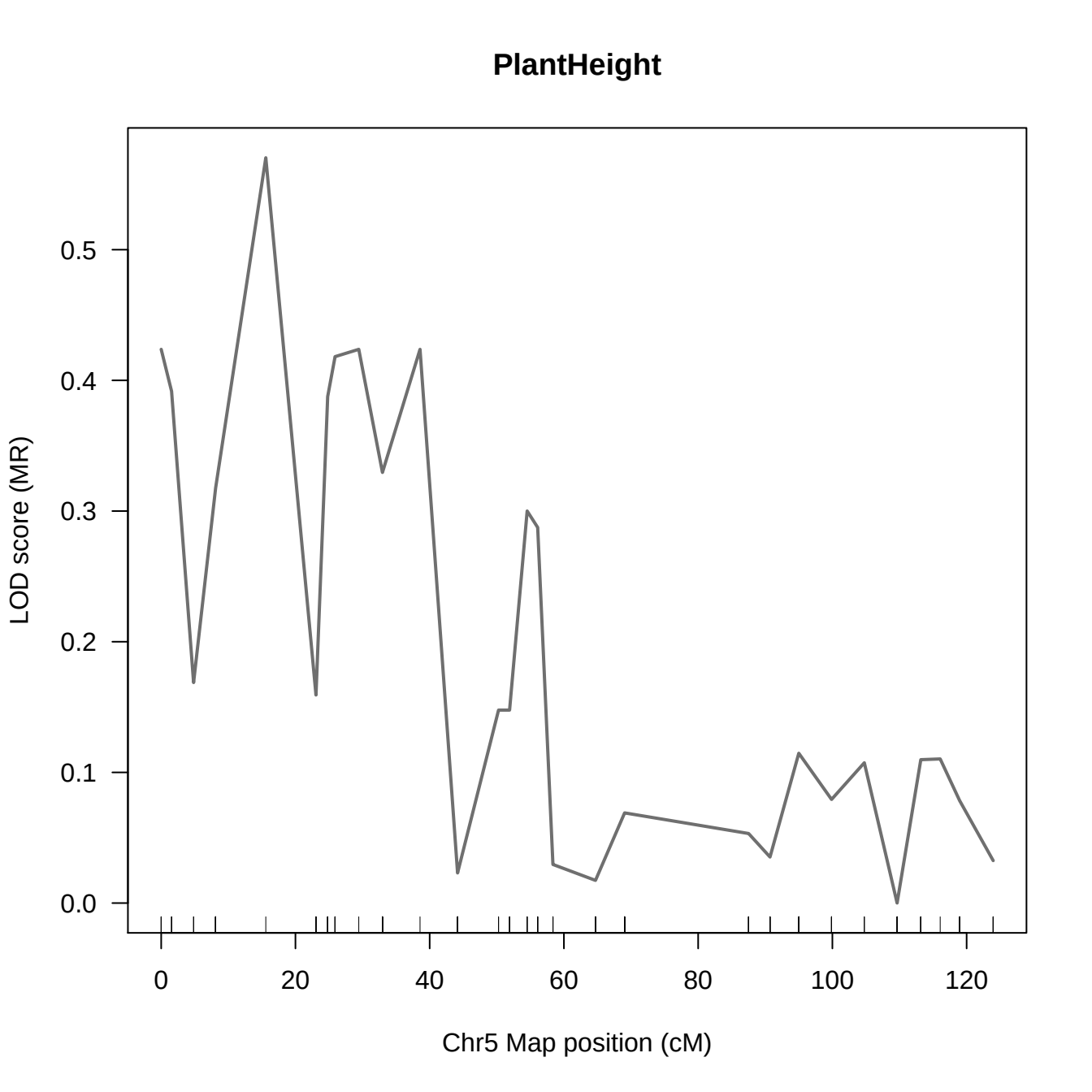

PlantHeight
LOD score (EM)
0.0
0.5
1.0
1.5
0
20
40
60
80
100
Chr3 Map position (cM)

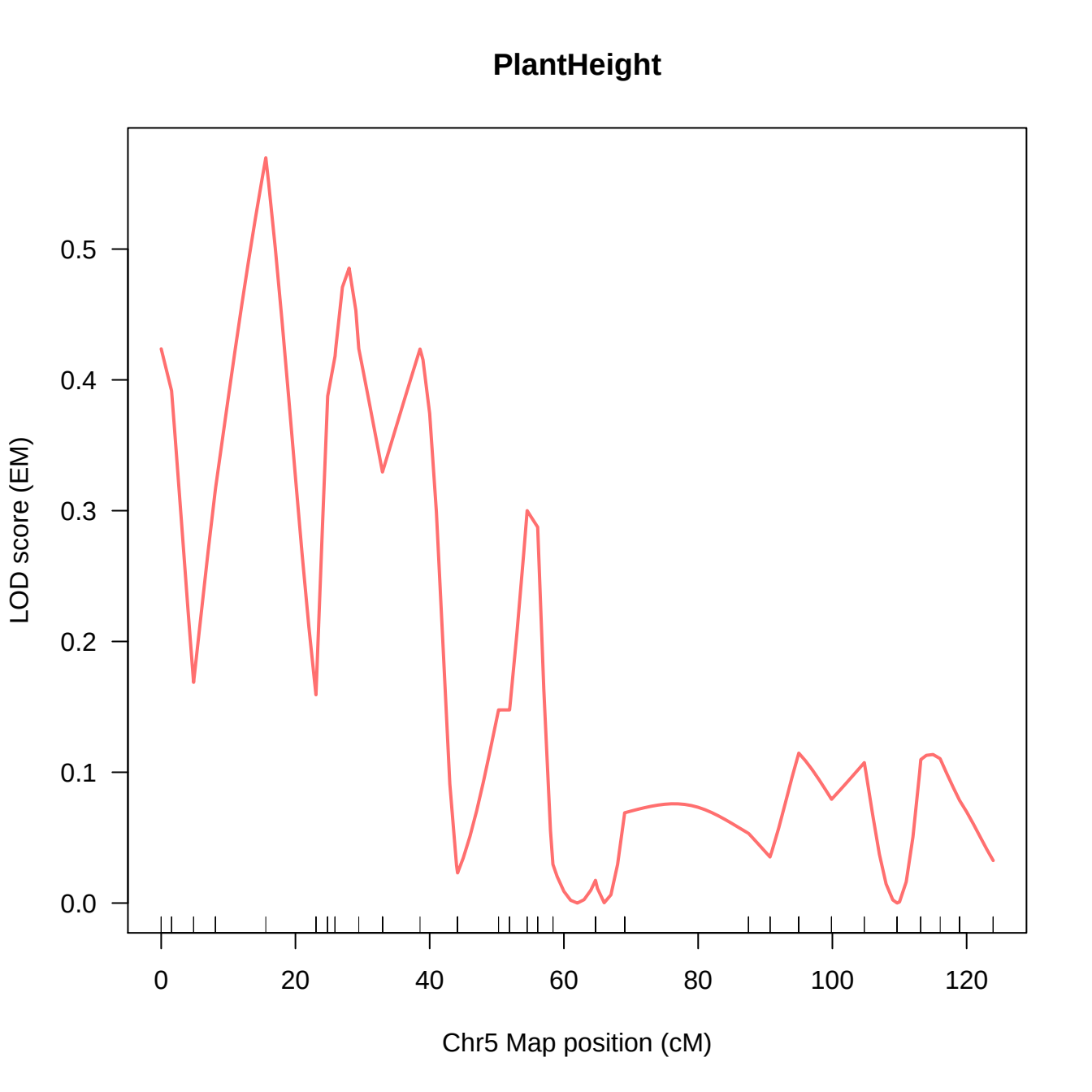

PlantHeight
LOD score
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
100
Chr3 Map position (cM)

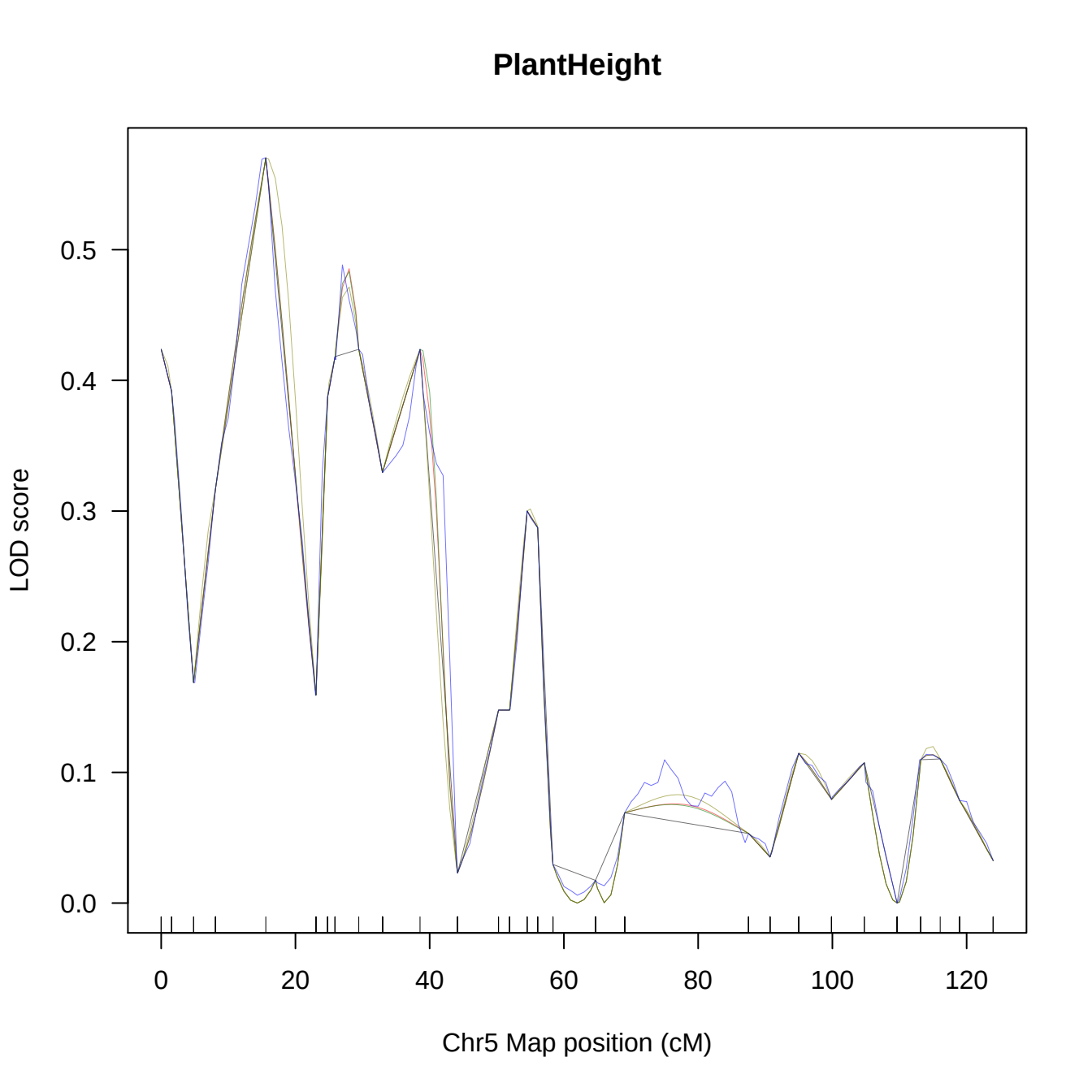

PlantHeight
LOD score (MR)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
Chr4 Map position (cM)


PlantHeight
LOD score (EM)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
Chr4 Map position (cM)


PlantHeight
LOD score
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
Chr4 Map position (cM)


PlantHeight
LOD score (MR)
0.0
0.1
0.2
0.3
0.4
0.5
0
20
40
60
80
100
120
Chr5 Map position (cM)


PlantHeight
LOD score (EM)
0.0
0.1
0.2
0.3
0.4
0.5
0
20
40
60
80
100
120
Chr5 Map position (cM)


PlantHeight
LOD score
0.0
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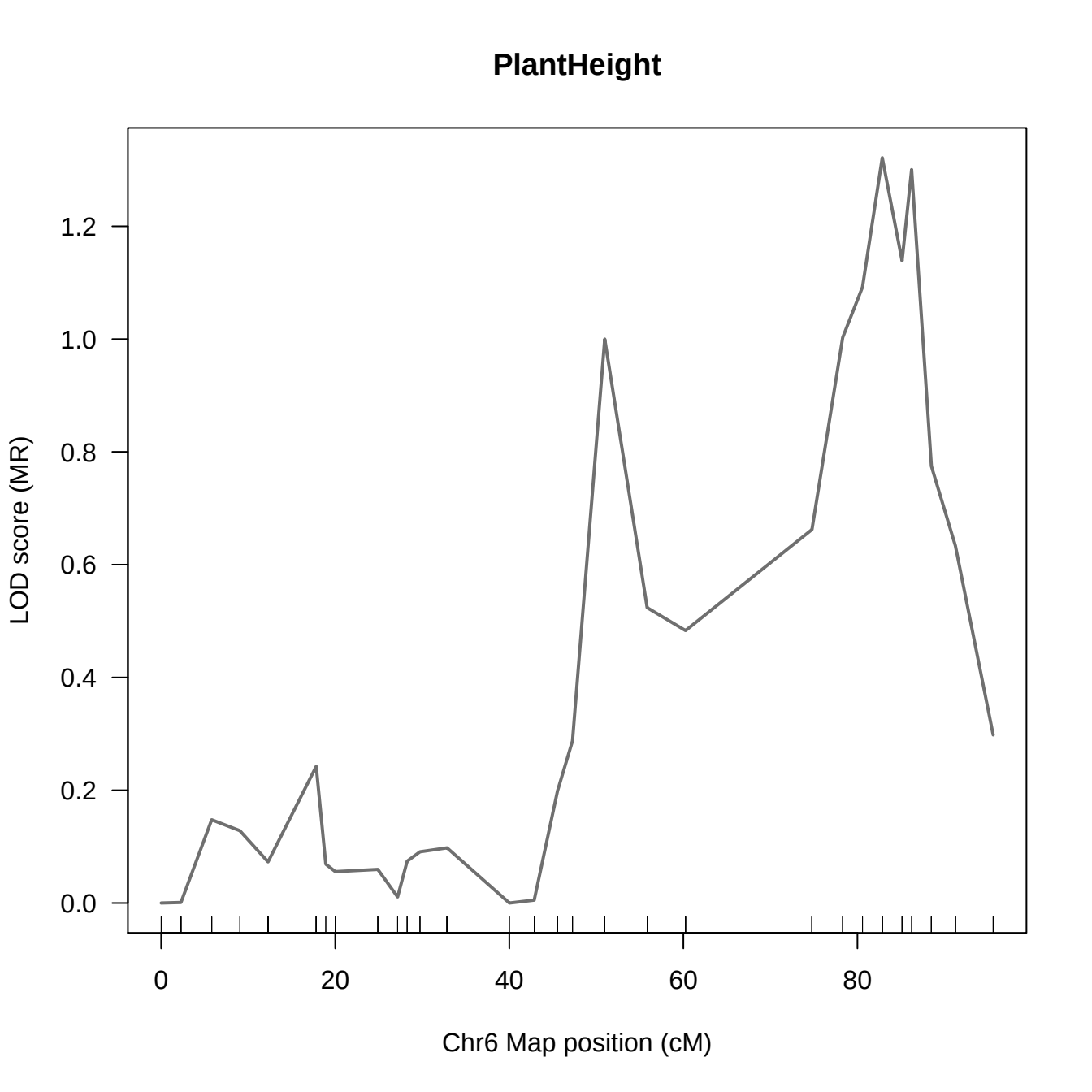
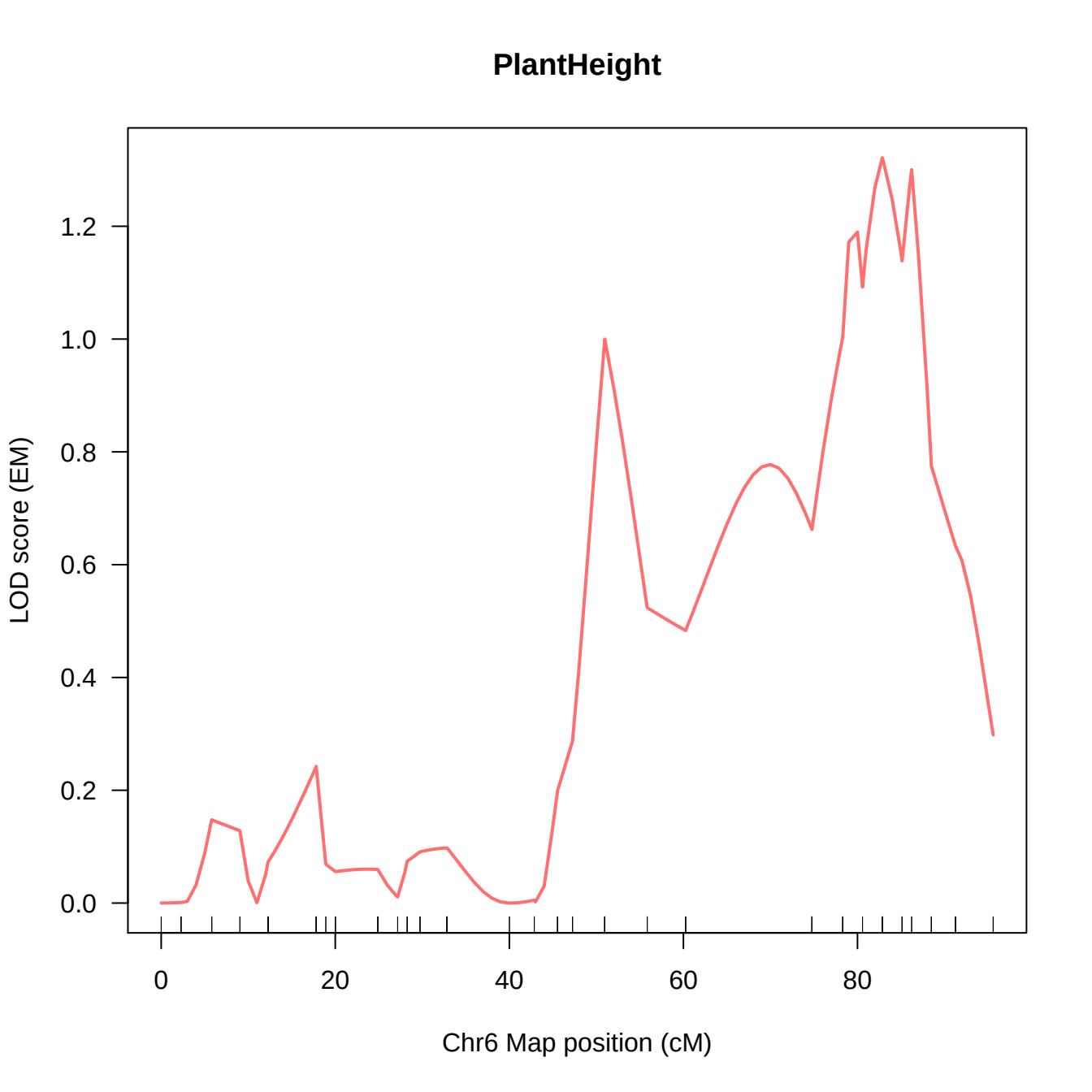
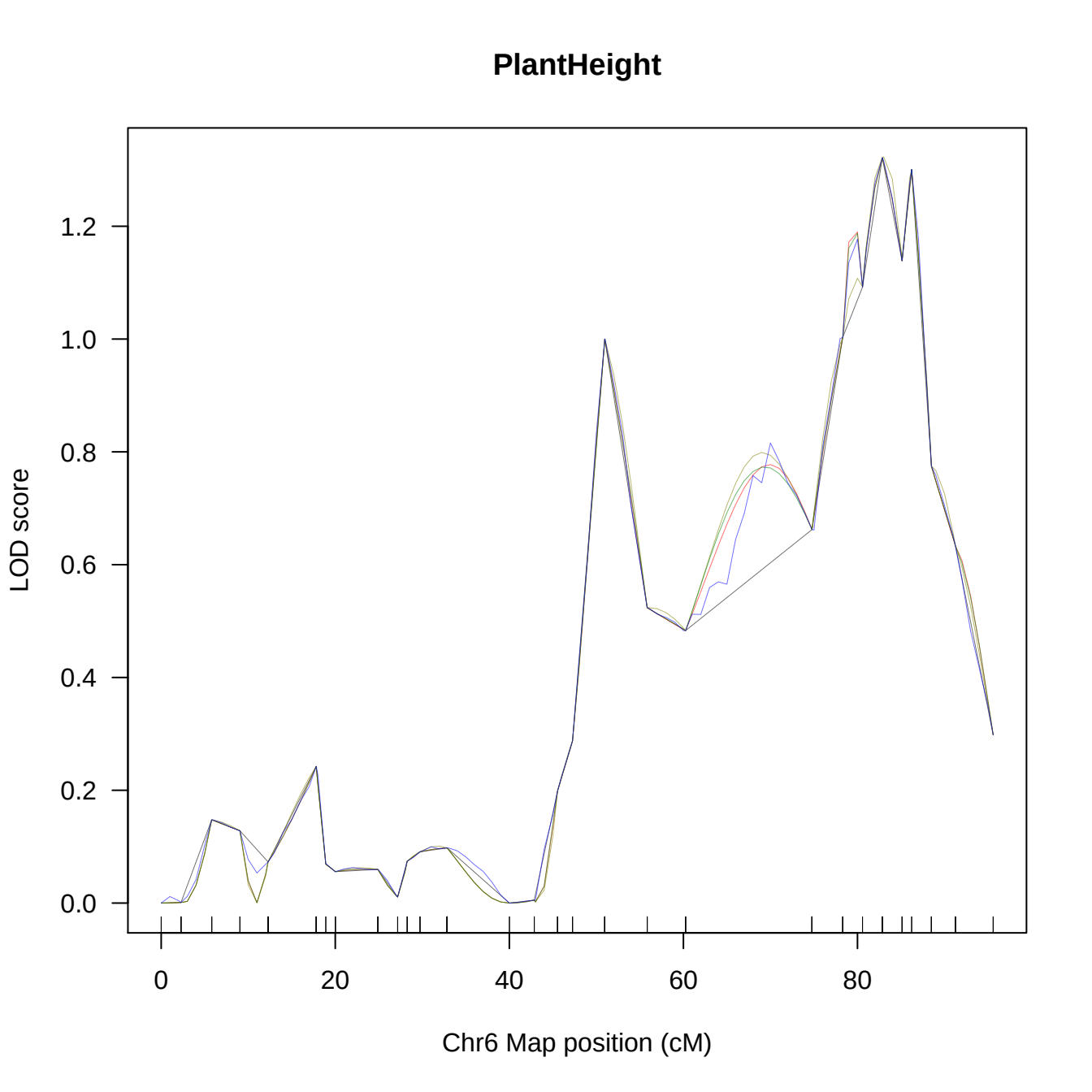
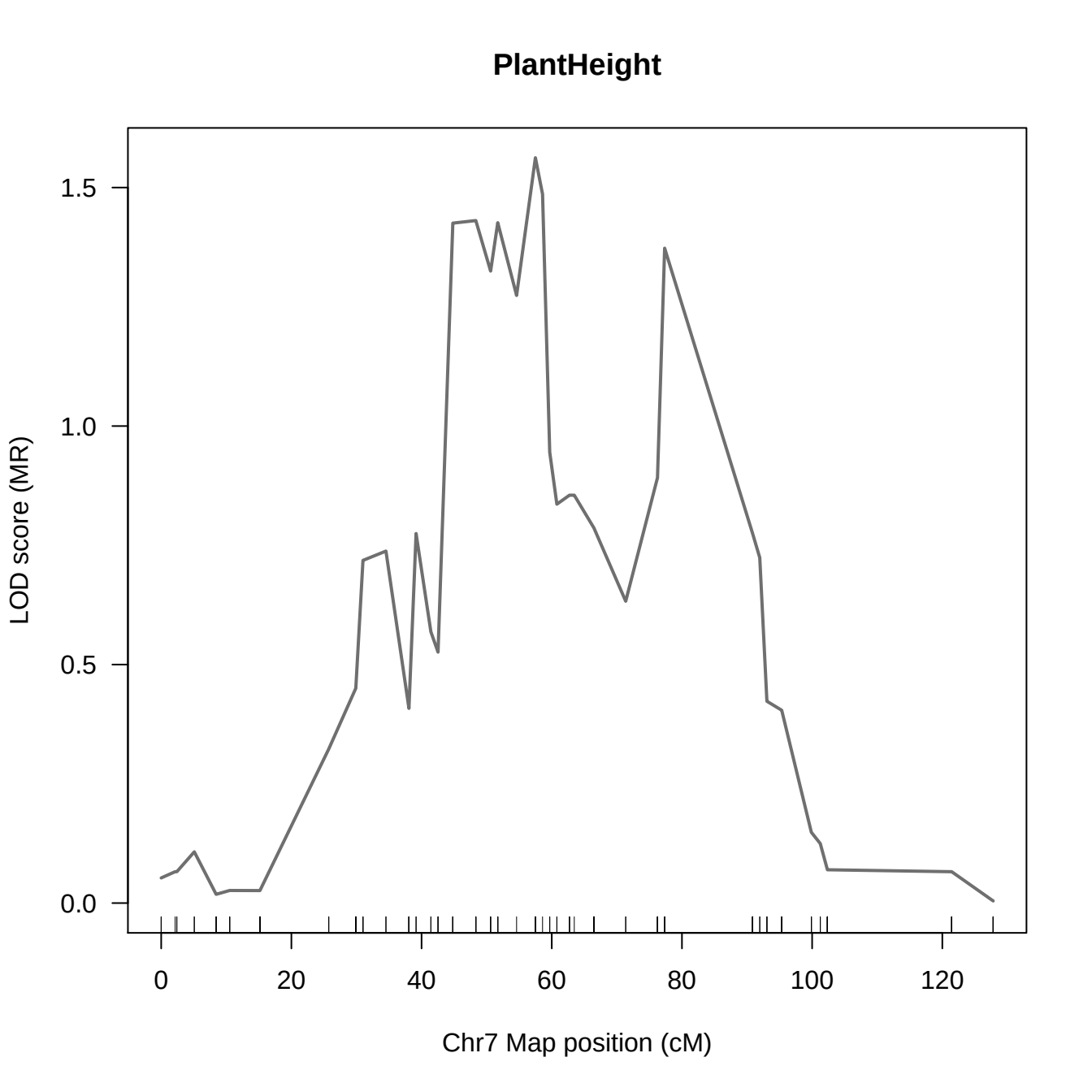
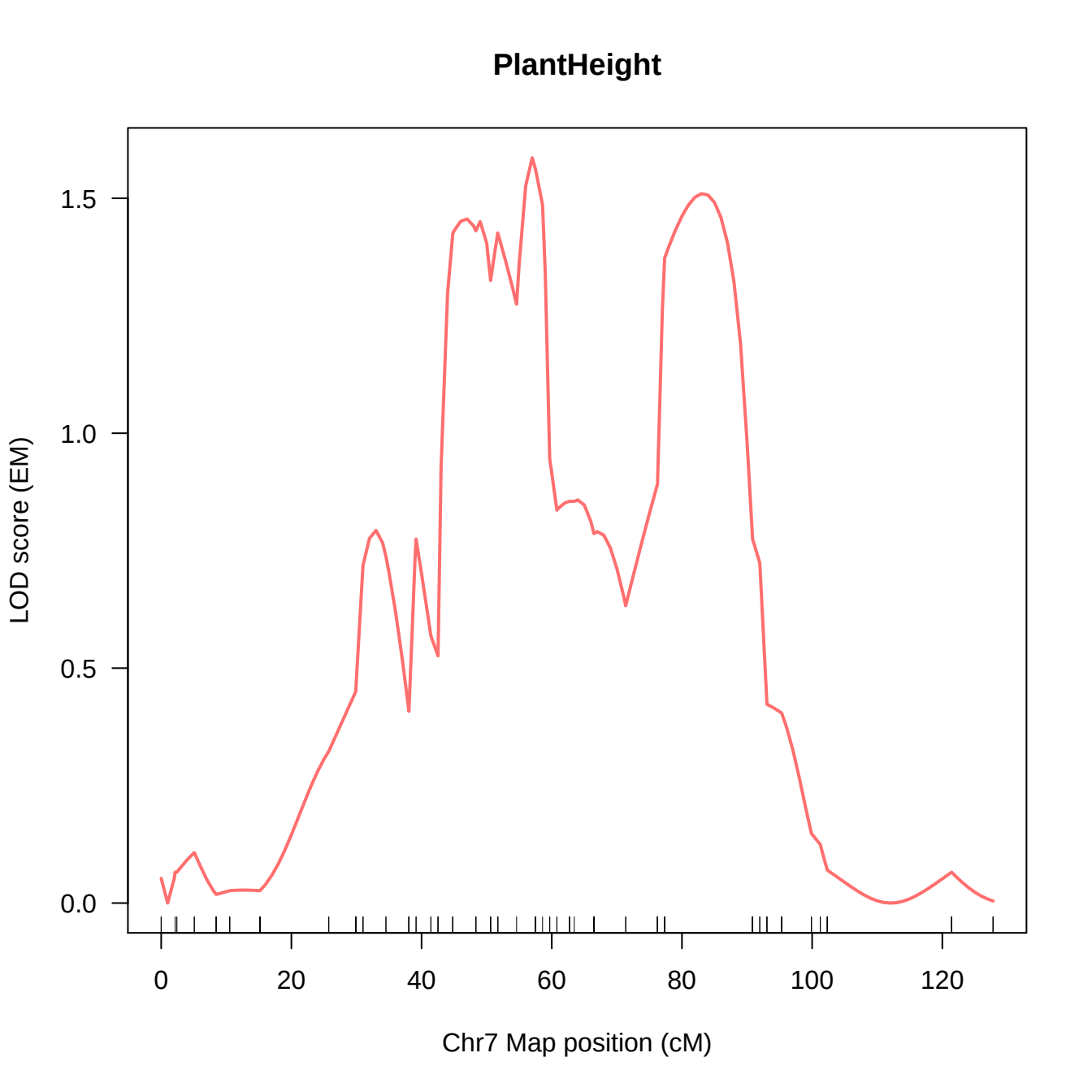
0.2
0.3
0.4
0.5
0
20
40
60
80
100
120
Chr5 Map position (cM)

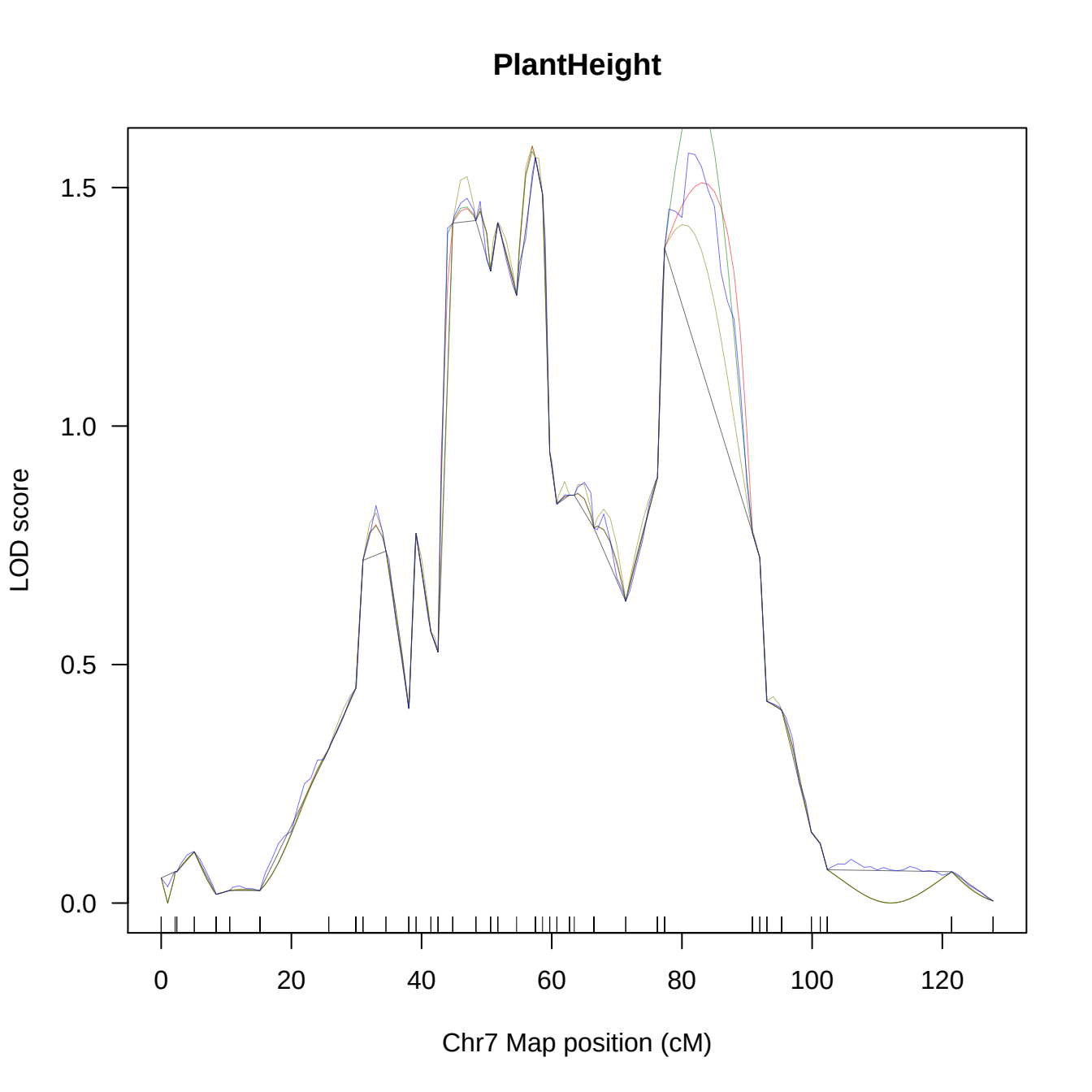

PlantHeight
LOD score (MR)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
Chr6 Map position (cM)

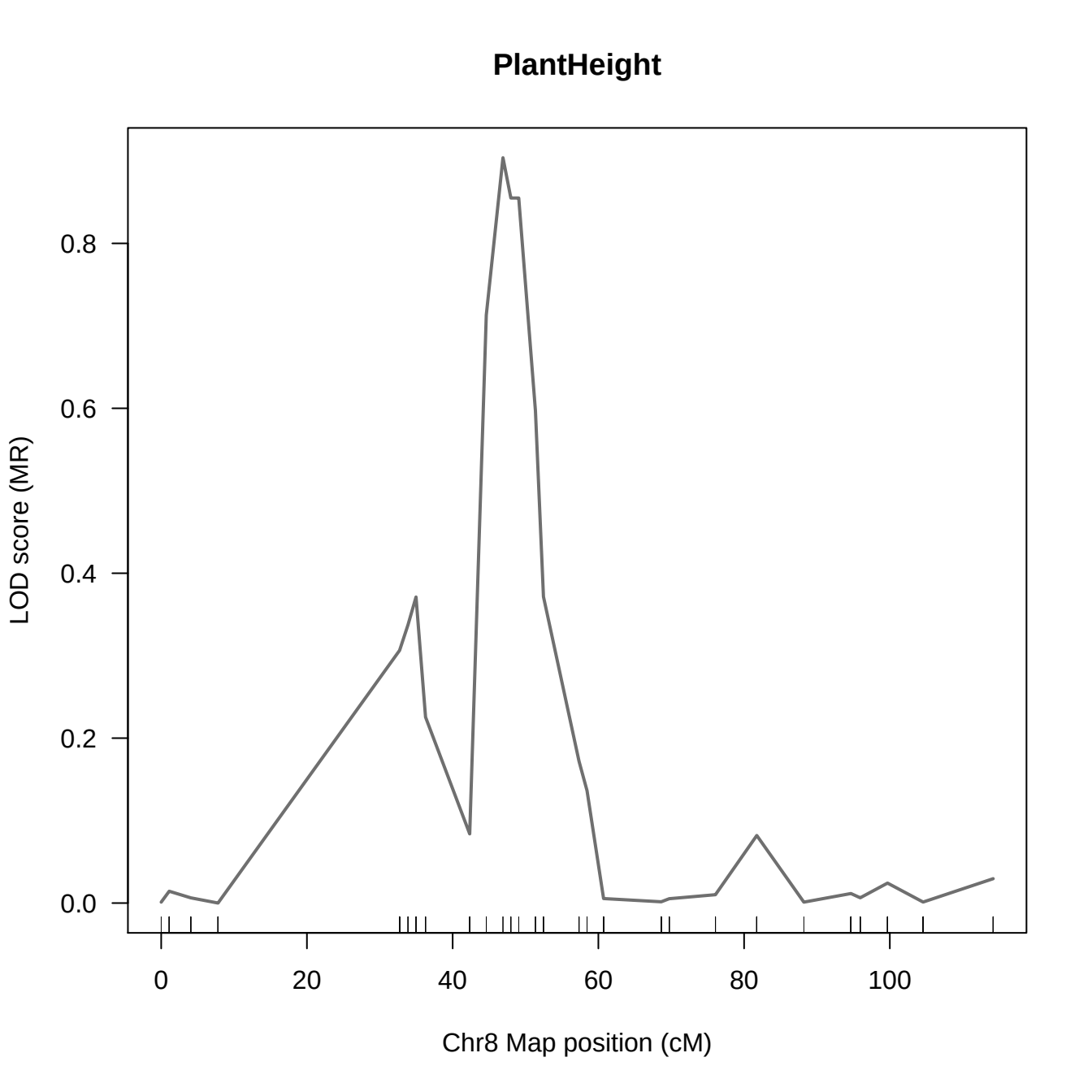

PlantHeight
LOD score (EM)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
20
40
60
80
Chr6 Map position (cM)


PlantHeight
LOD score
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
20
40
60
80
Chr6 Map position (cM)


PlantHeight
LOD score (MR)
1.5
1.0
0.5
0.0
0
20
40
60
80
100
120
Chr7 Map position (cM)


PlantHeight
LOD score (EM)
1.5
1.0
0.5
0.0
0
20
40
60
80
100
120
Chr7 Map position (cM)


PlantHeight
LOD score
1.5
1.0
0.5
0.0
0
20
40
60
80
100
120
Chr7 Map position (cM)


PlantHeight
LOD score (MR)
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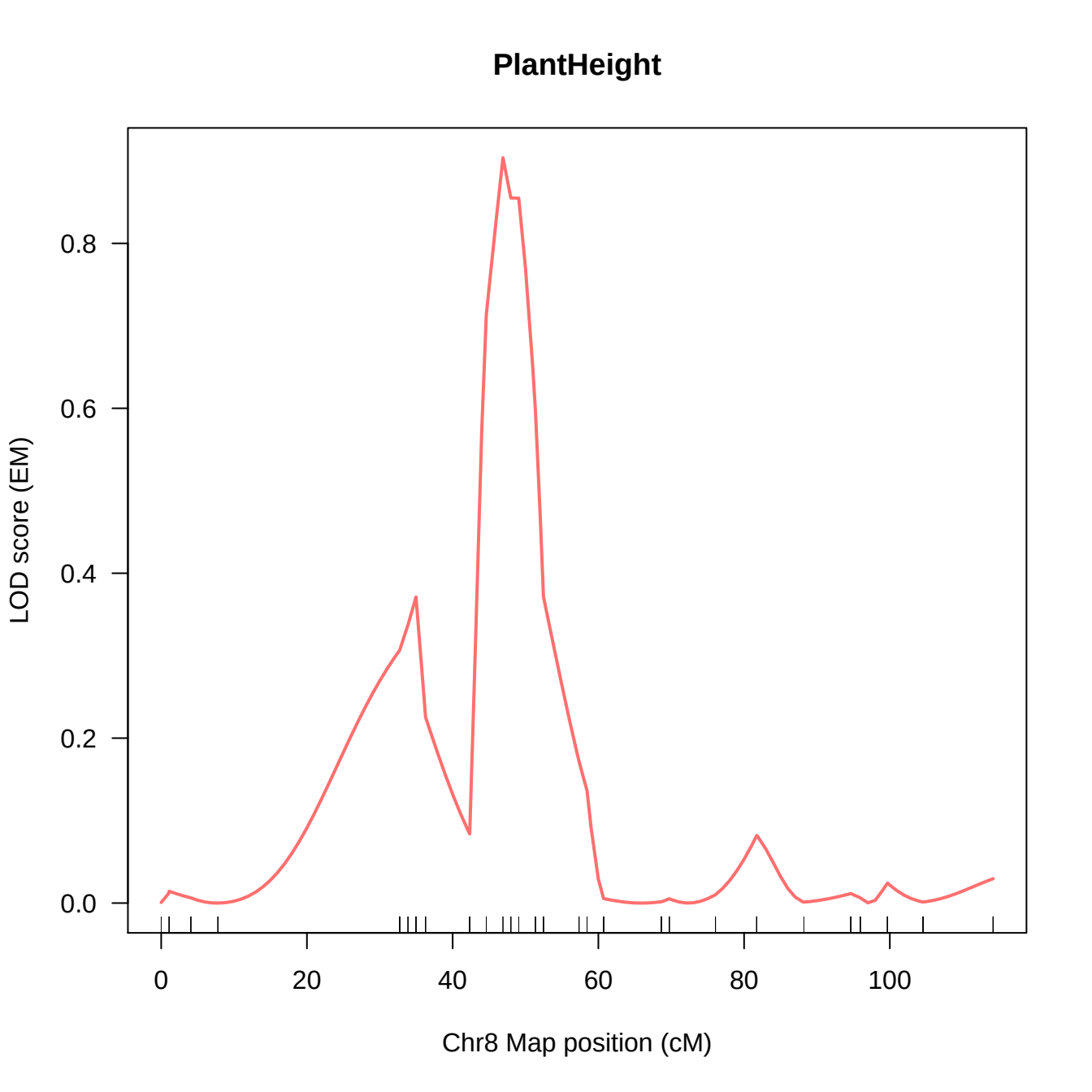
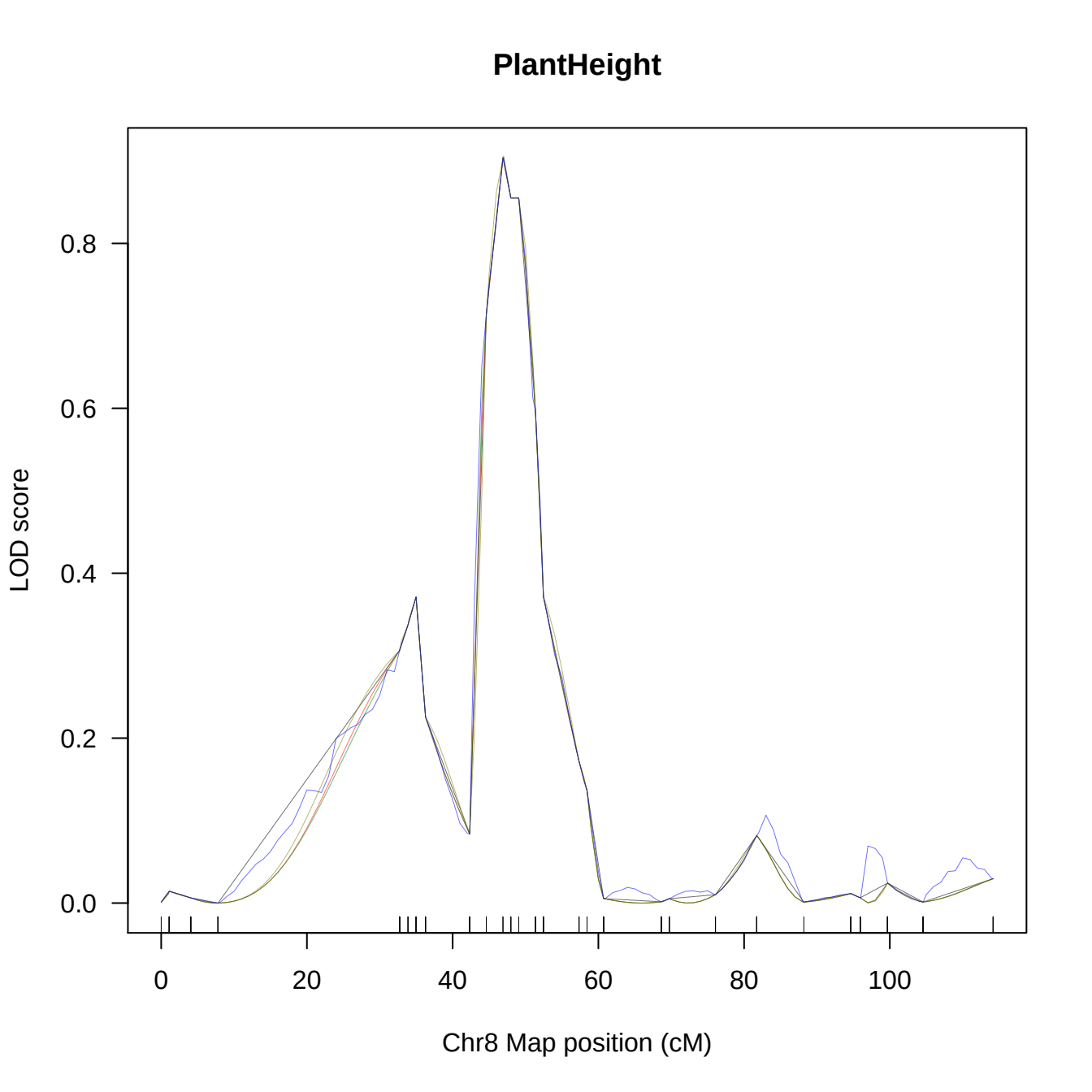
0.2
0.4
0.6
0.8
0
20
40
60
80
100
Chr8 Map position (cM)


PlantHeight
LOD score (EM)
0.0
0.2
0.4
0.6
0.8
0
20
40
60
80
100
Chr8 Map position (cM)


PlantHeight
LOD score
0.0
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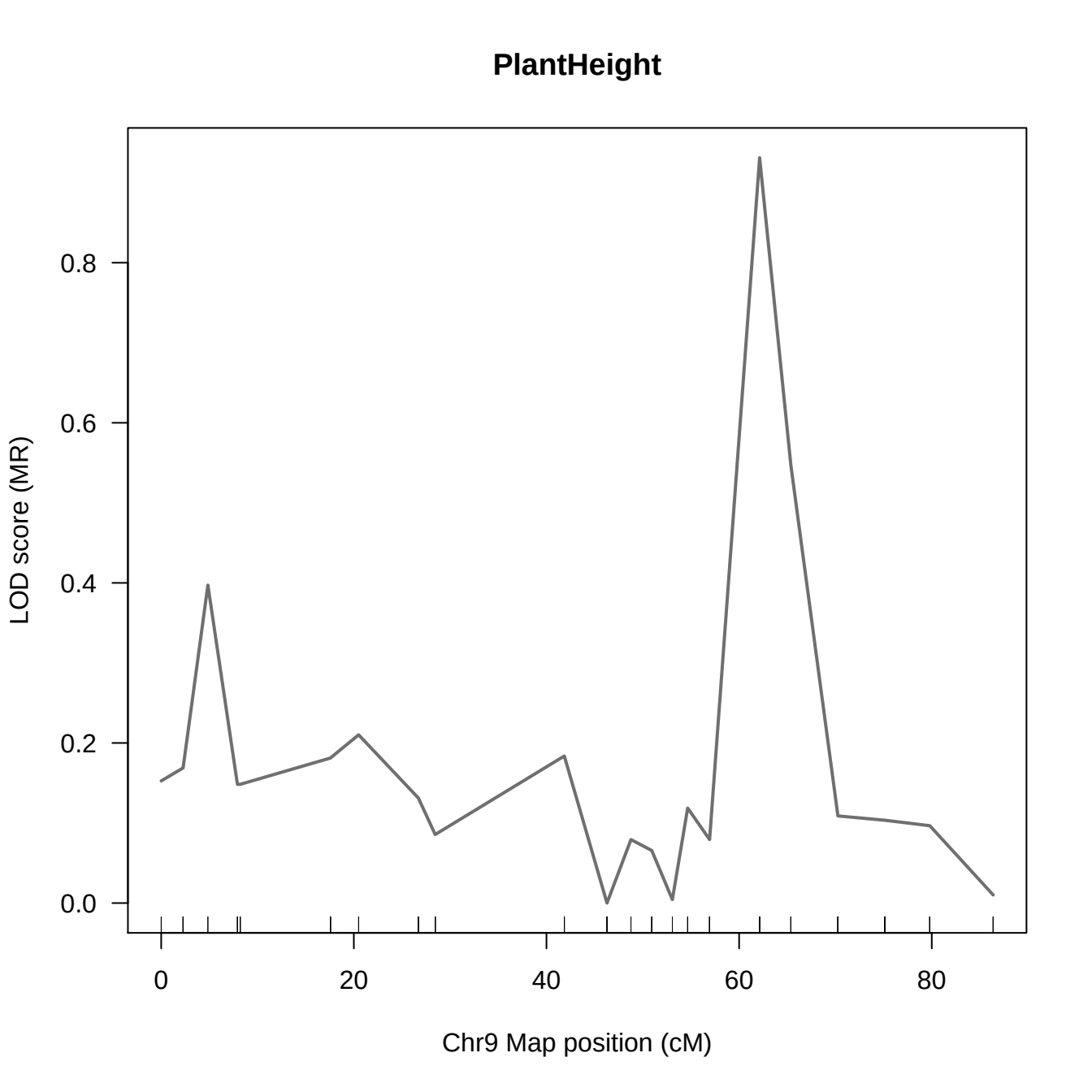
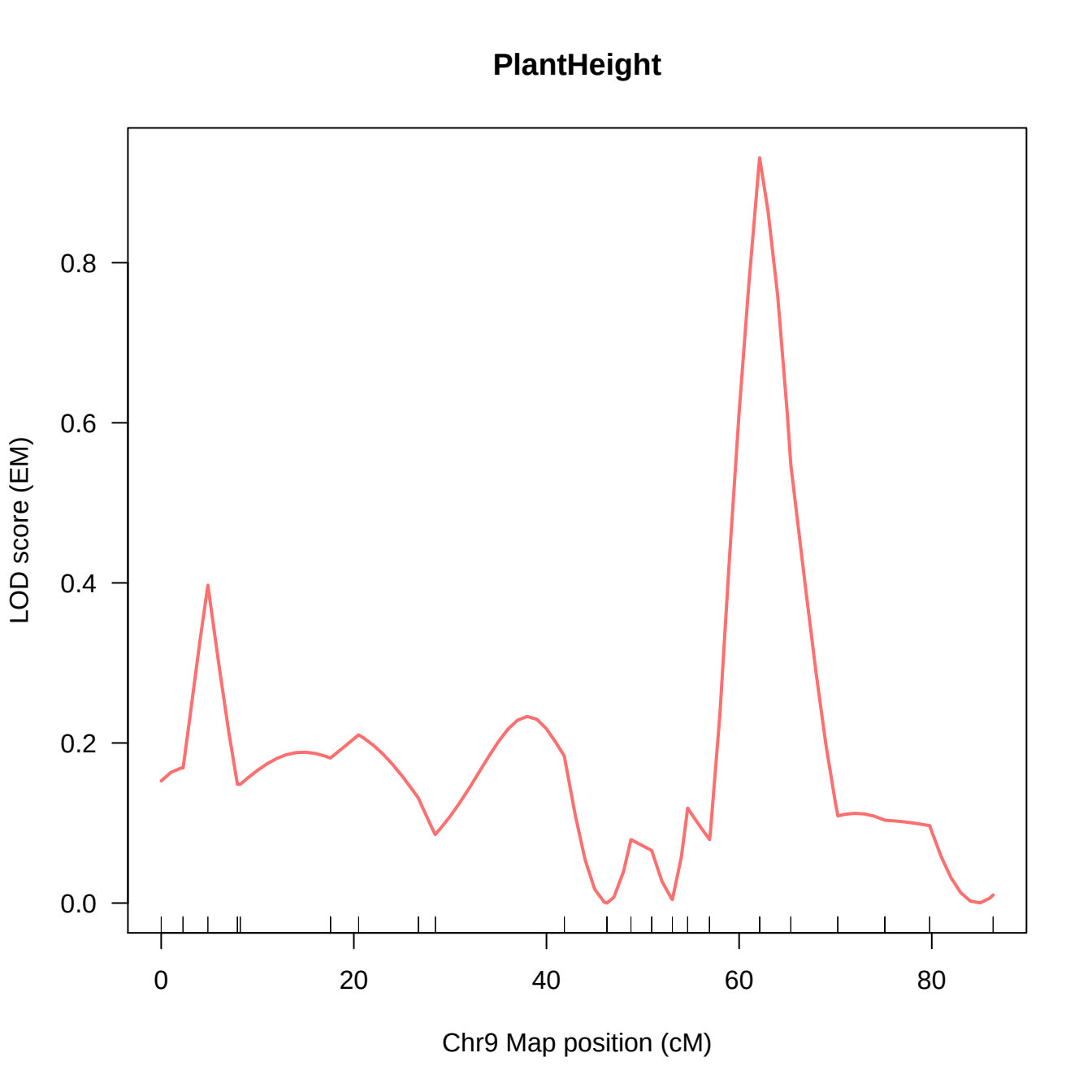
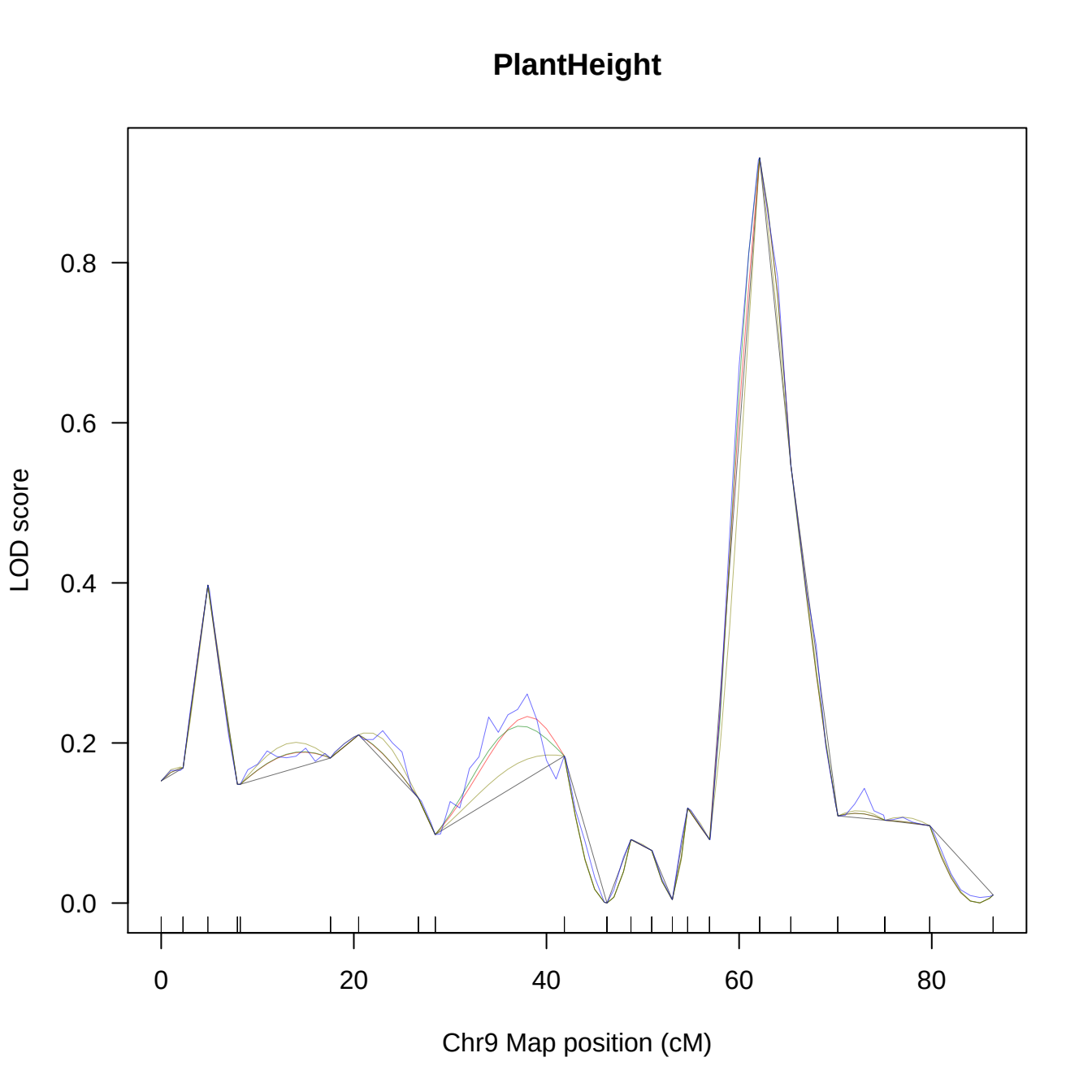
0.4
0.6
0.8
0
20
40
60
80
100
Chr8 Map position (cM)


PlantHeight
LOD score (MR)
0.0
0.2
0.4
0.6
0.8
0
20
40
60
80
Chr9 Map position (cM)


PlantHeight
LOD score (EM)
0.0
0.2
0.4
0.6
0.8
0
20
40
60
80
Chr9 Map position (cM)


PlantHeight
LOD score
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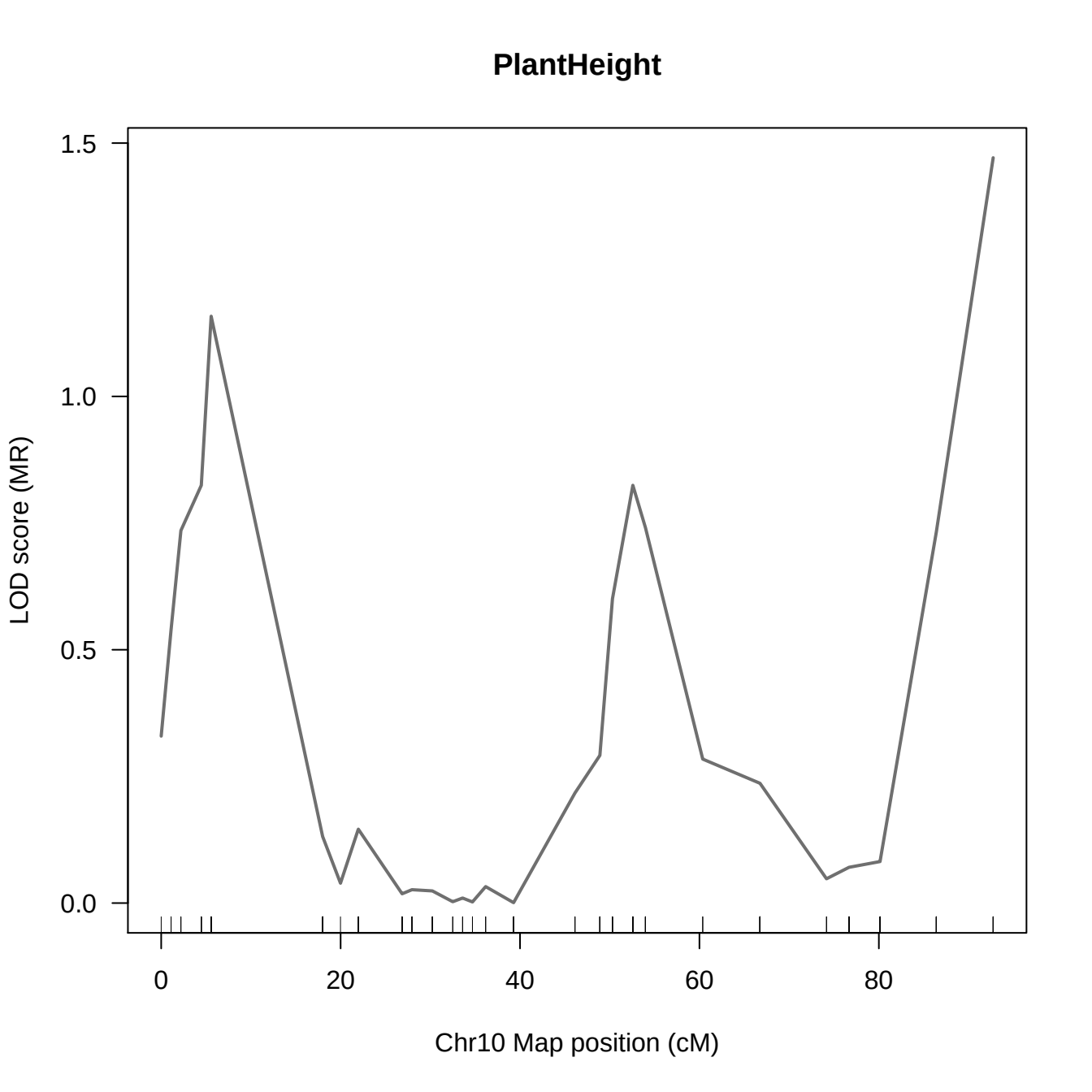
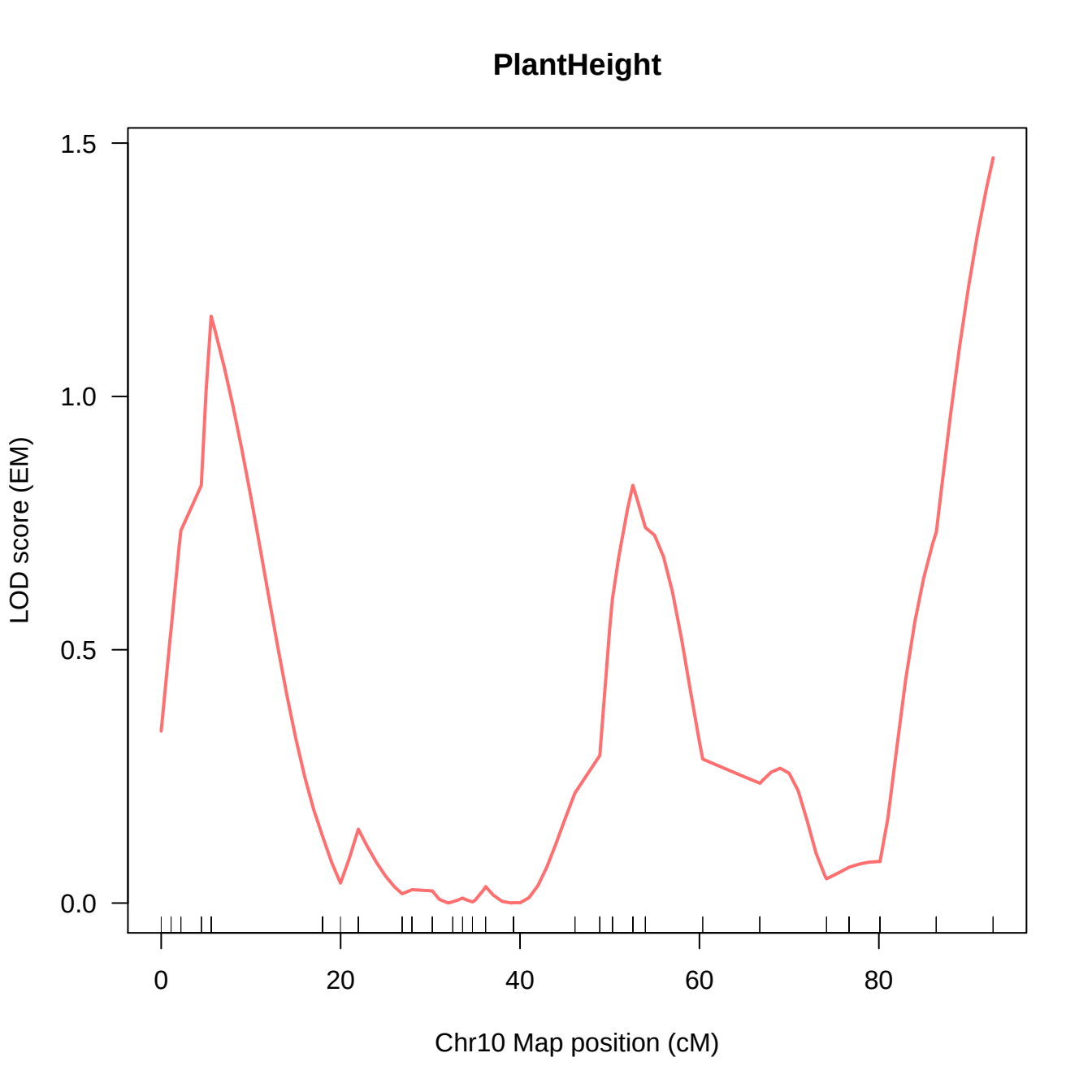
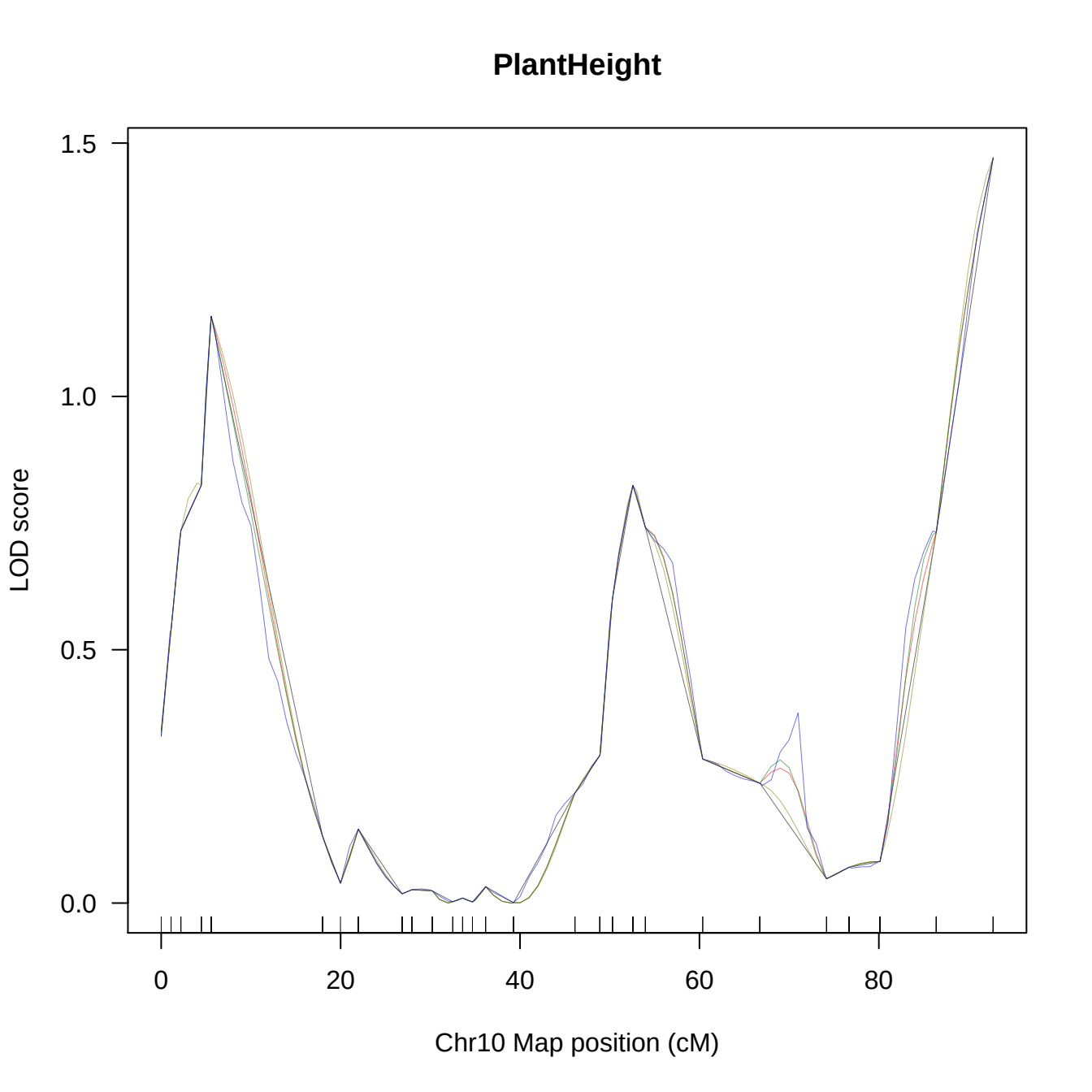
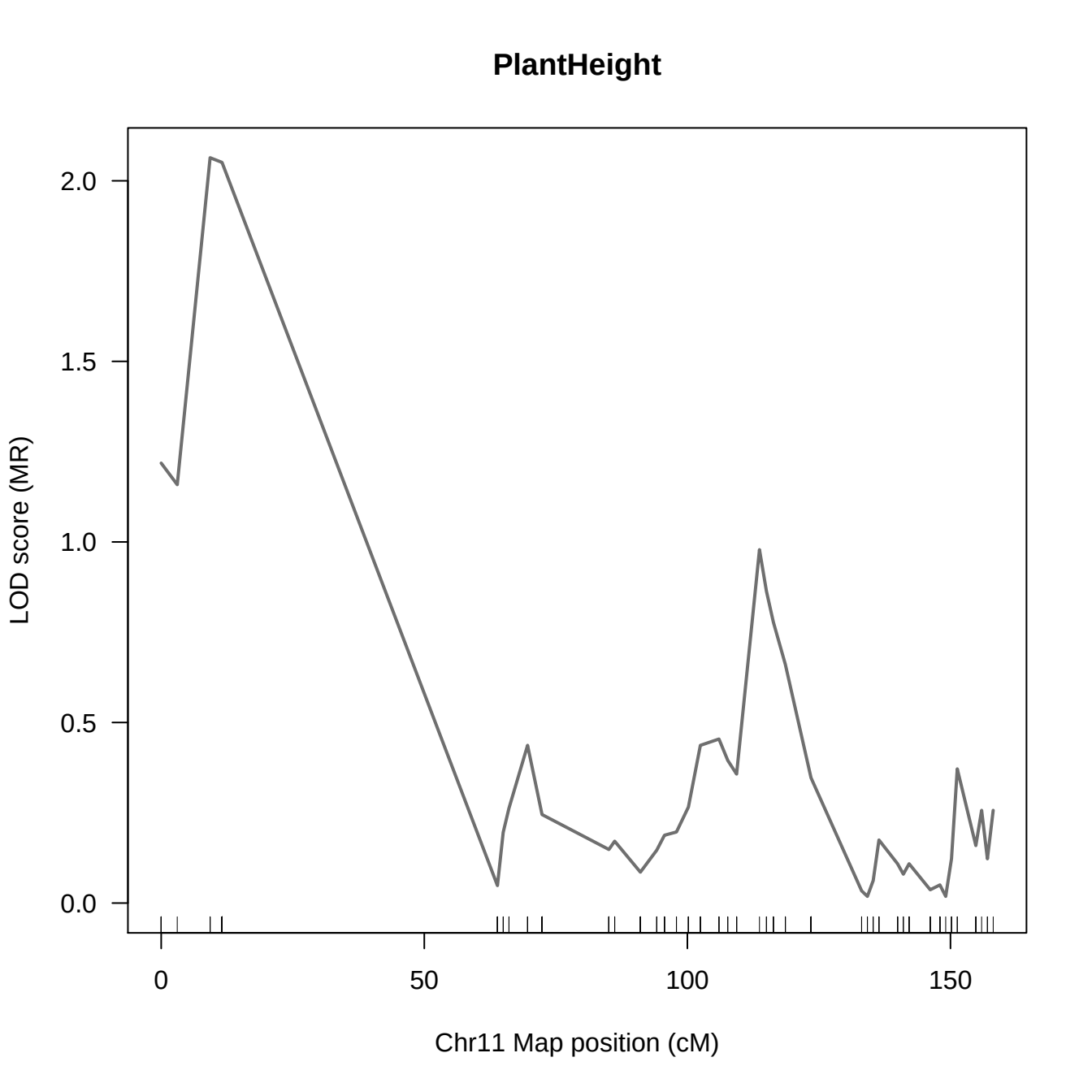
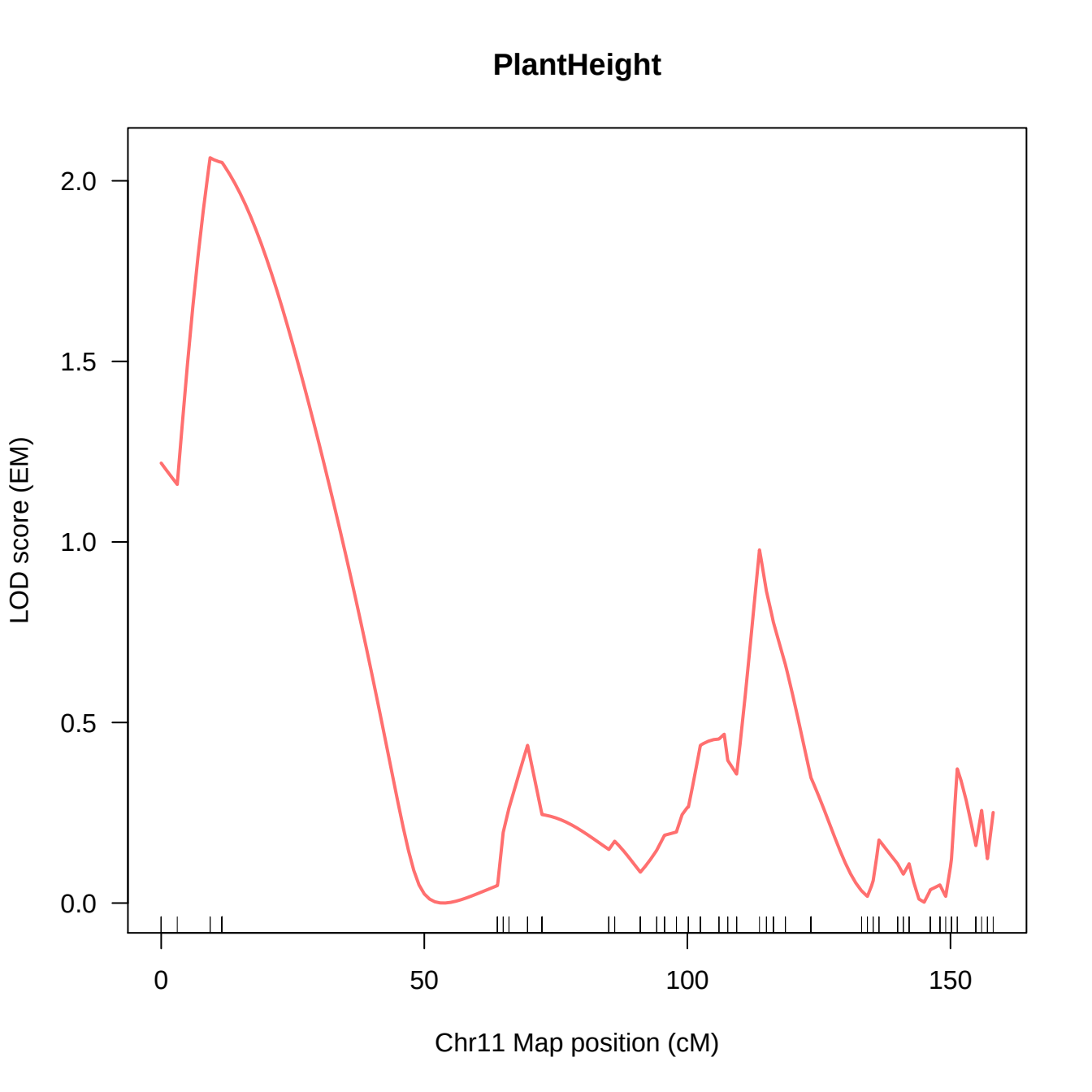
0.4
0.6
0.8
0
20
40
60
80
Chr9 Map position (cM)

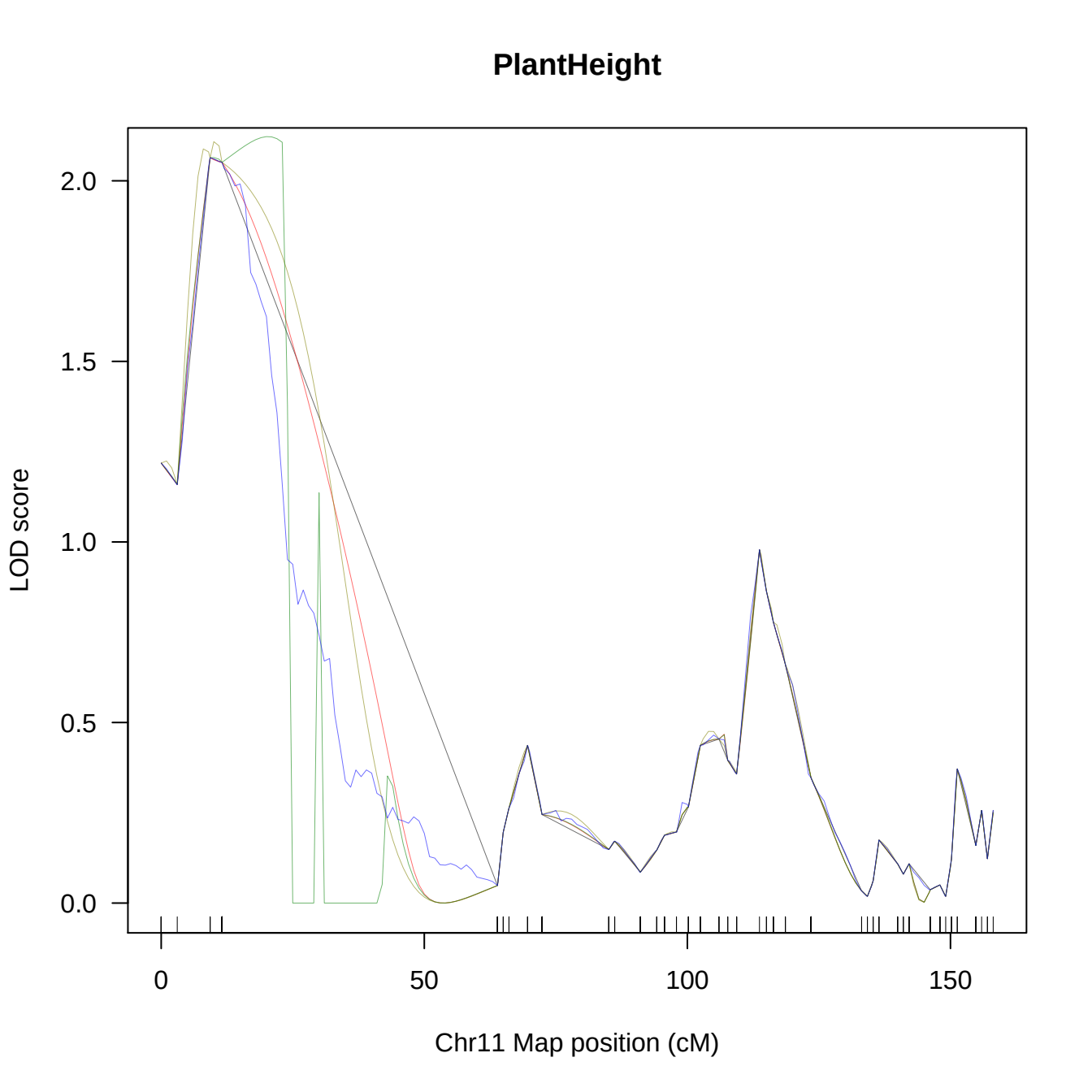

PlantHeight
1.5
1.0
0.5
0.0
LOD score (MR)
0
20
40
60
80
Chr10 Map position (cM)

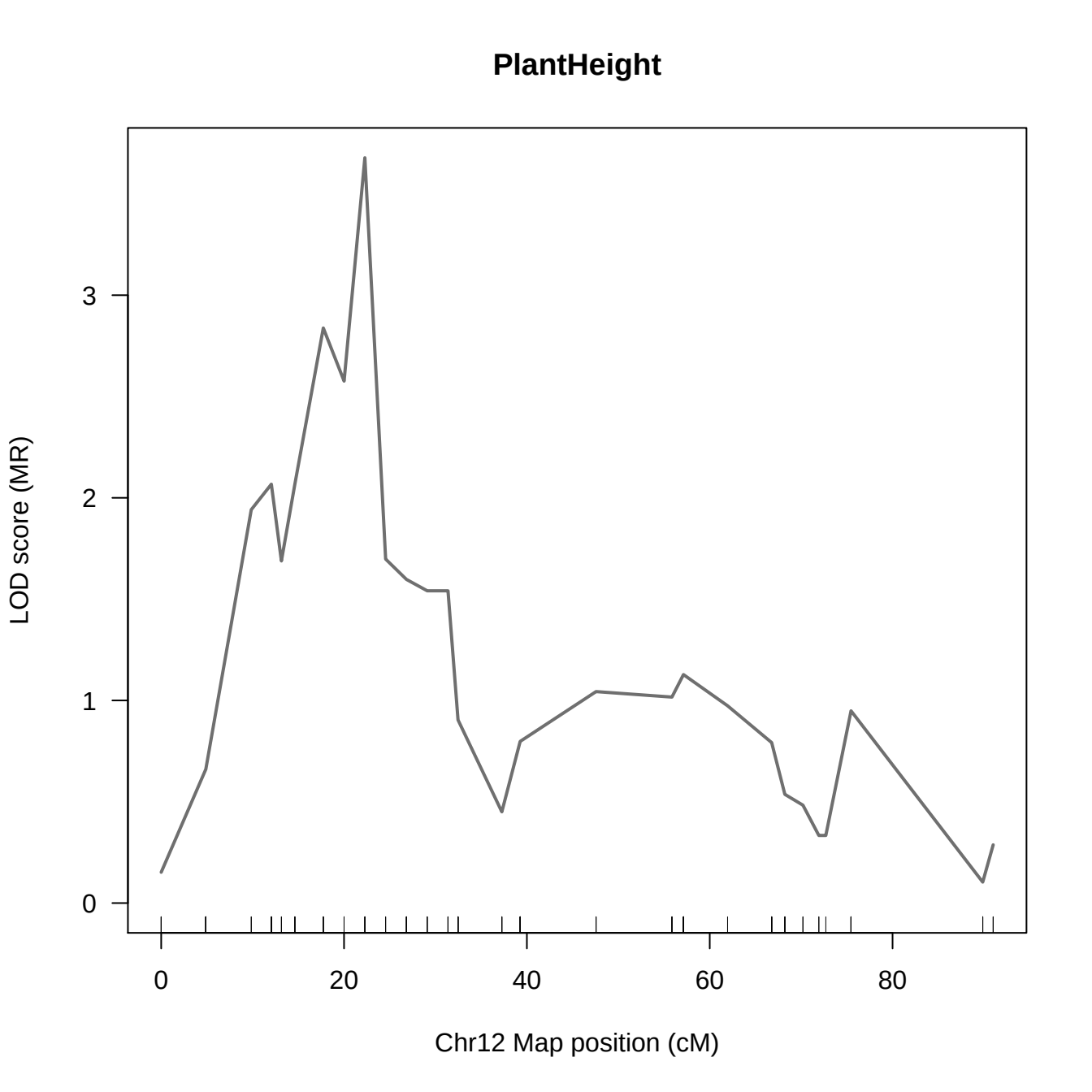

PlantHeight
1.5
1.0
0.5
0.0
LOD score (EM)
0
20
40
60
80
Chr10 Map position (cM)

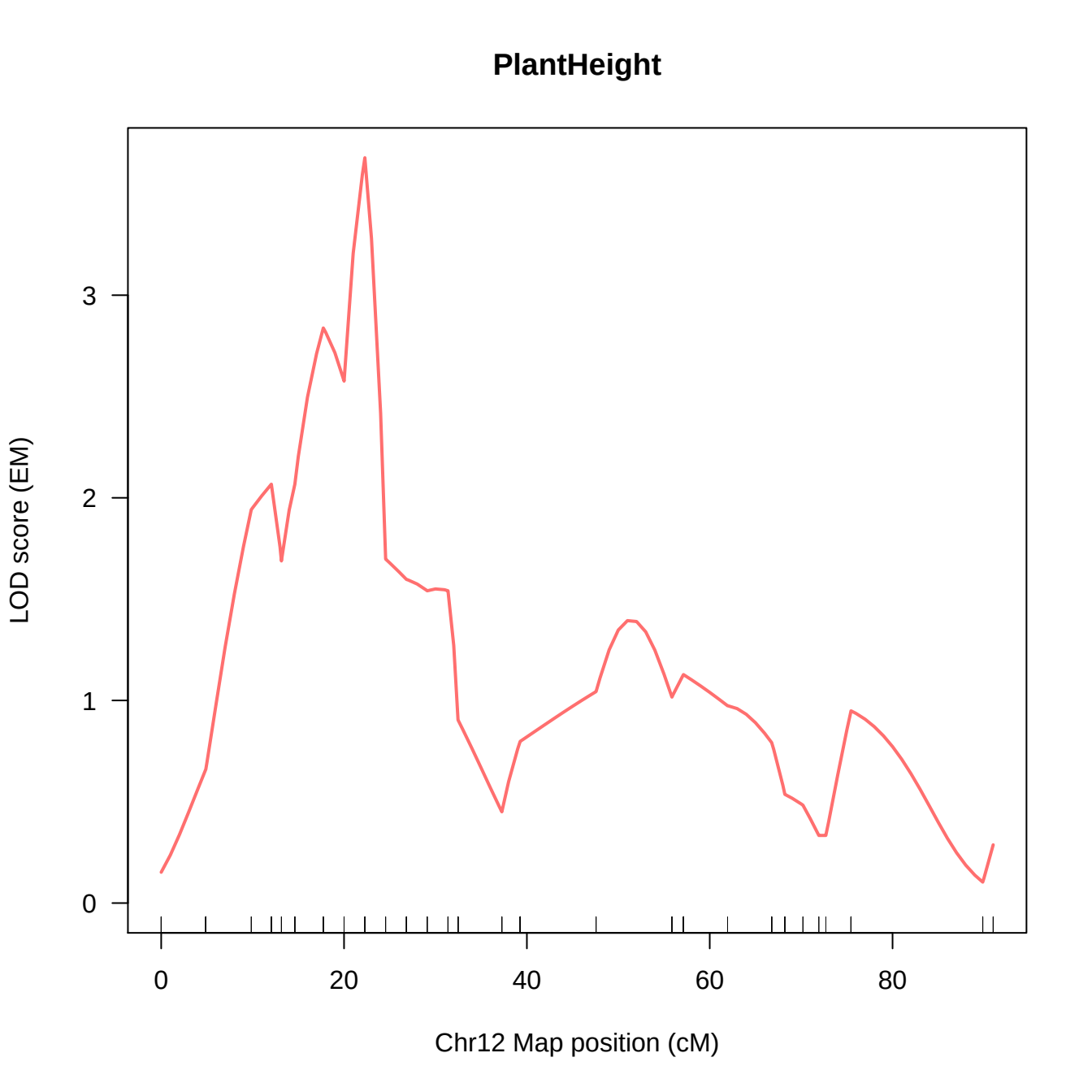

PlantHeight
1.5
1.0
0.5
0.0
LOD score
0
20
40
60
80
Chr10 Map position (cM)

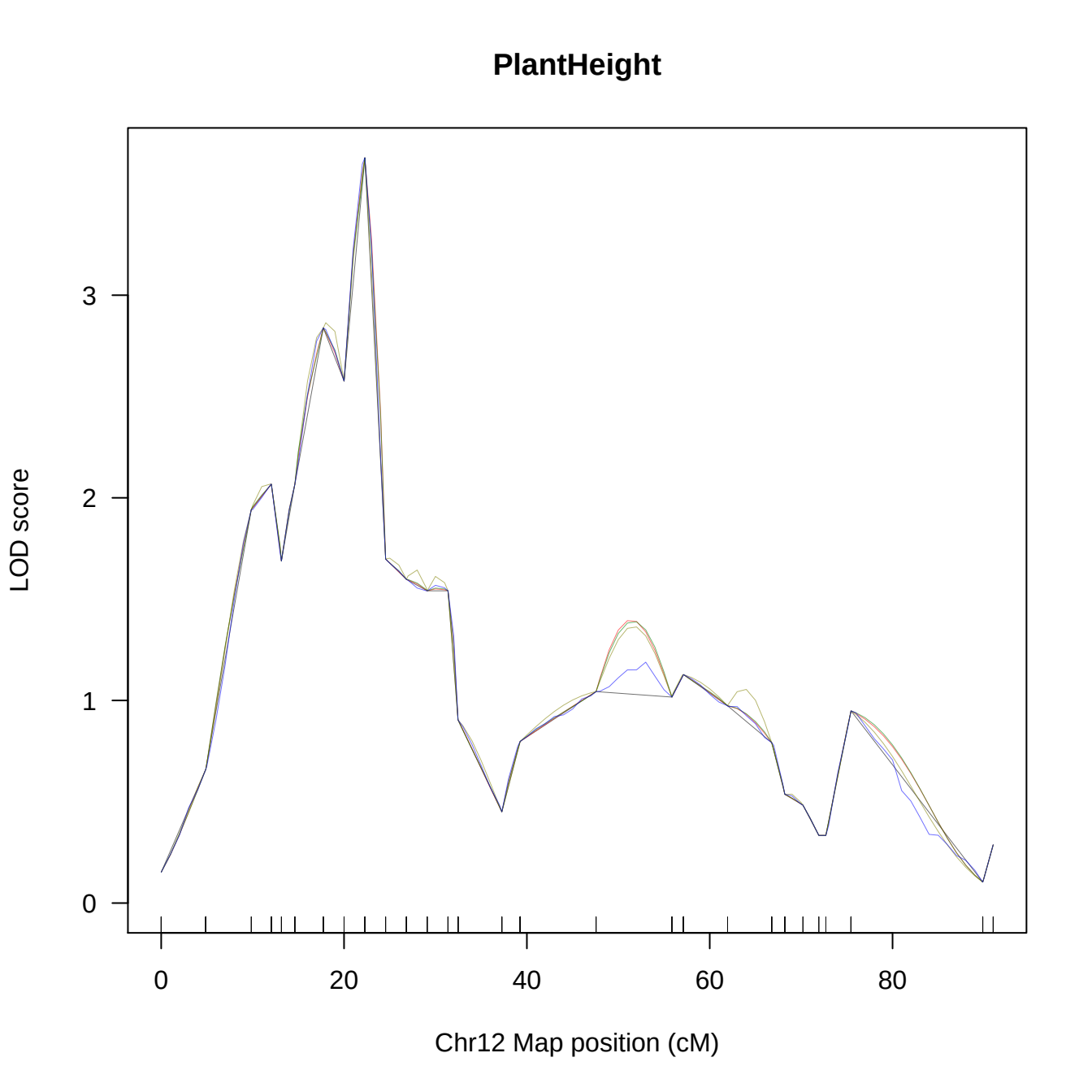

PlantHeight
LOD score (MR)
2.0
1.5
1.0
0.5
0.0
0
50
100
150
Chr11 Map position (cM)

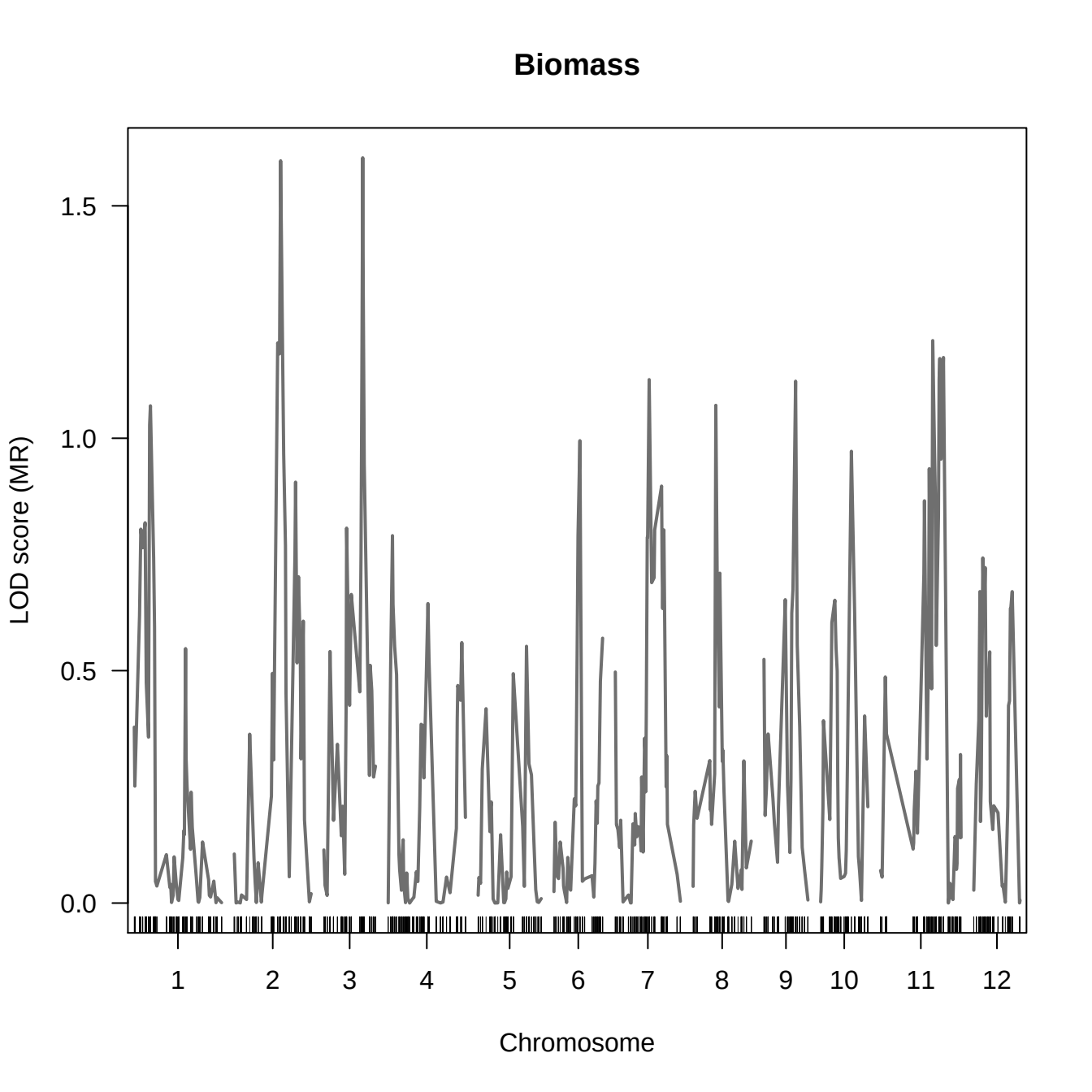

PlantHeight
LOD score (EM)
2.0
1.5
1.0
0.5
0.0
0
50
100
150
Chr11 Map position (cM)

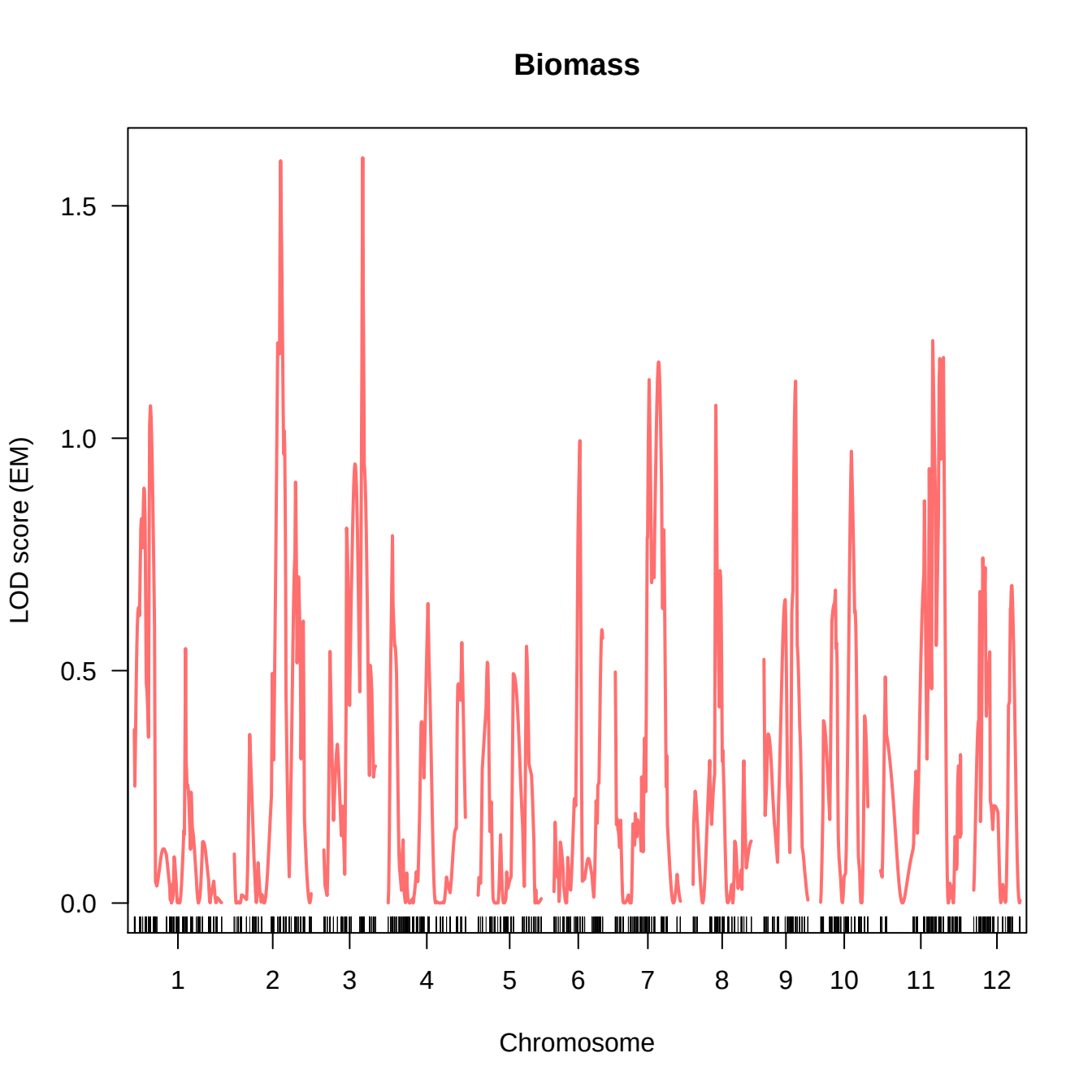

PlantHeight
LOD score
2.0
1.5
1.0
0.5
0.0
0
50
100
150
Chr11 Map position (cM)

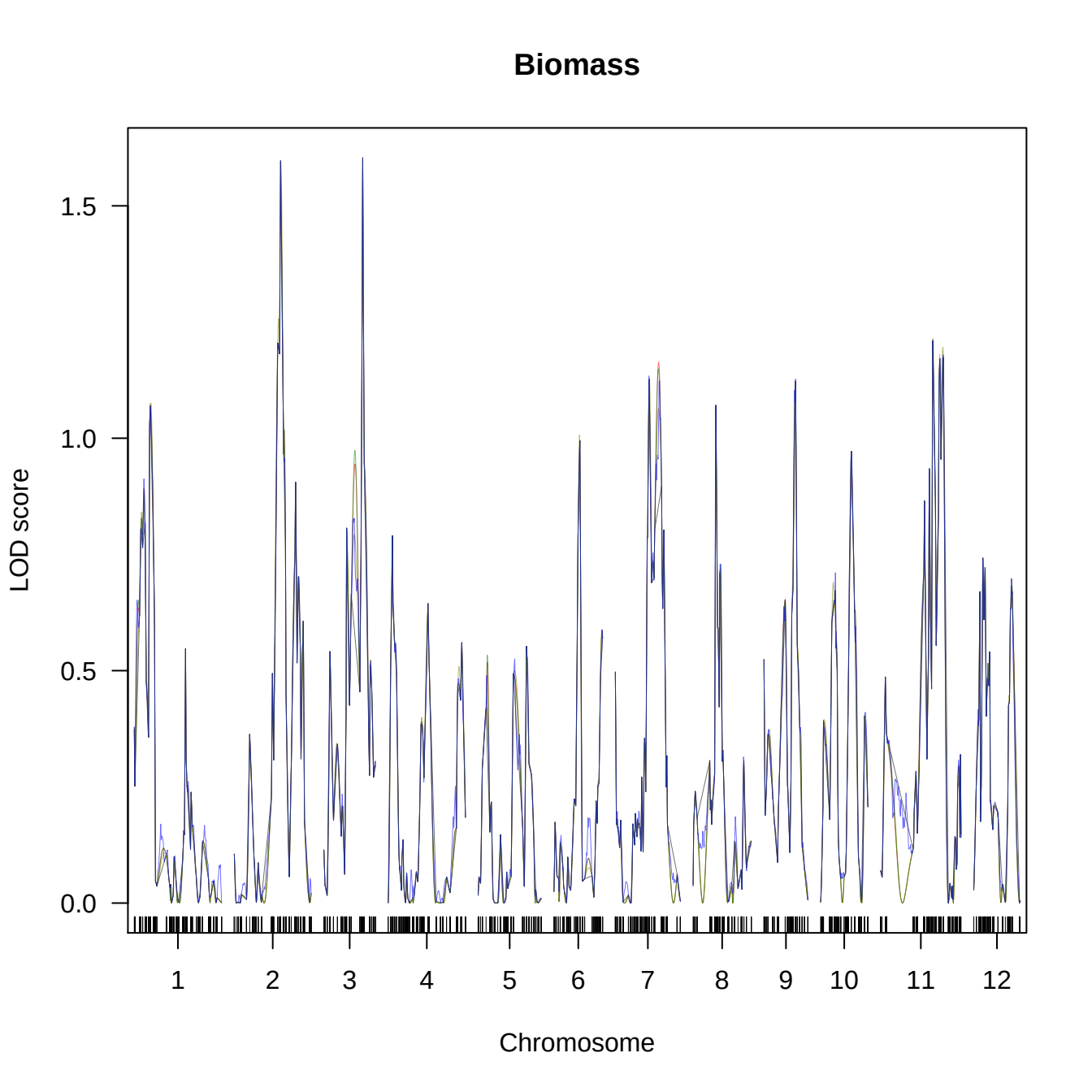

PlantHeight
LOD score (MR)
0
1
2
3
0
20
40
60
80
Chr12 Map position (cM)

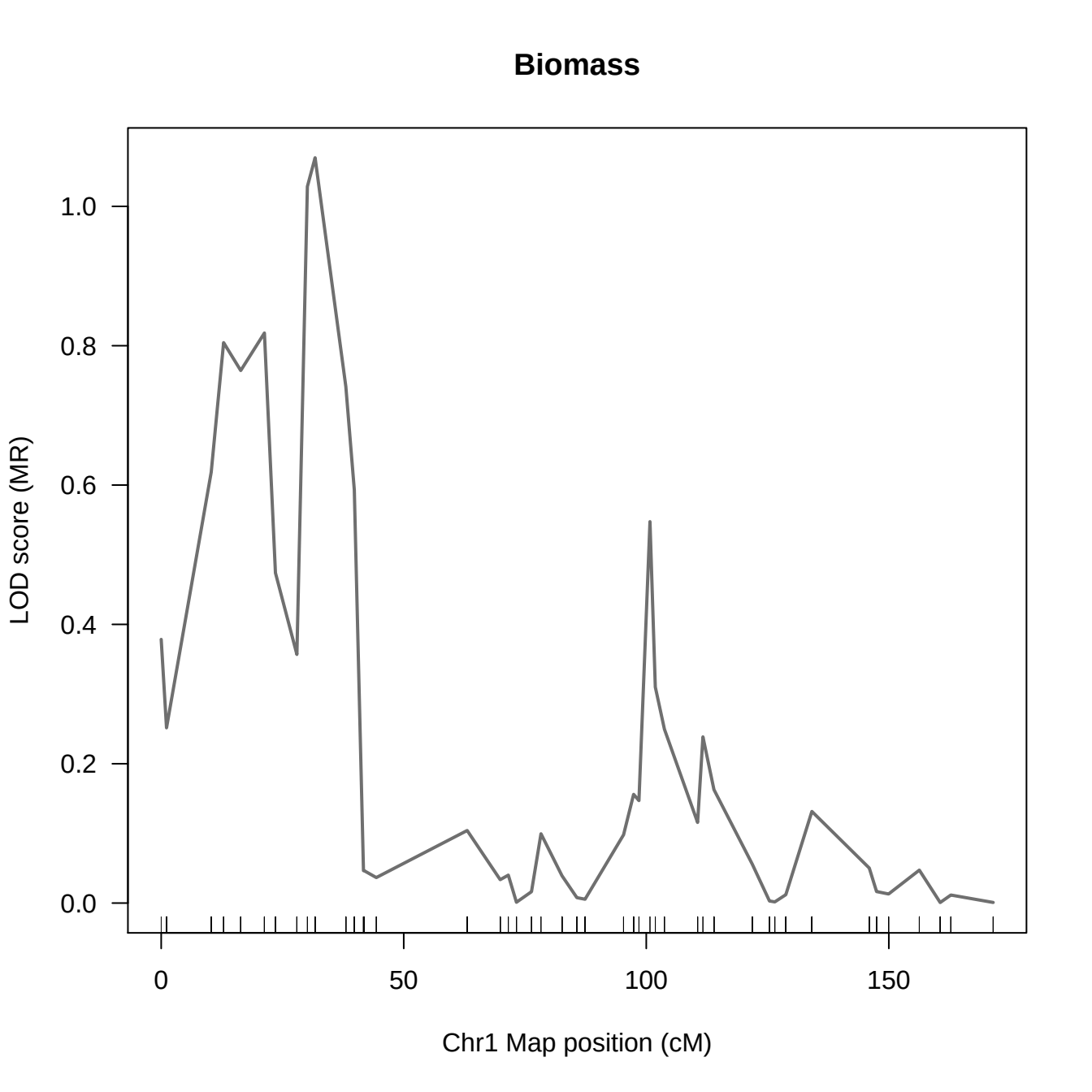

PlantHeight
LOD score (EM)
0
1
2
3
0
20
40
60
80
Chr12 Map position (cM)

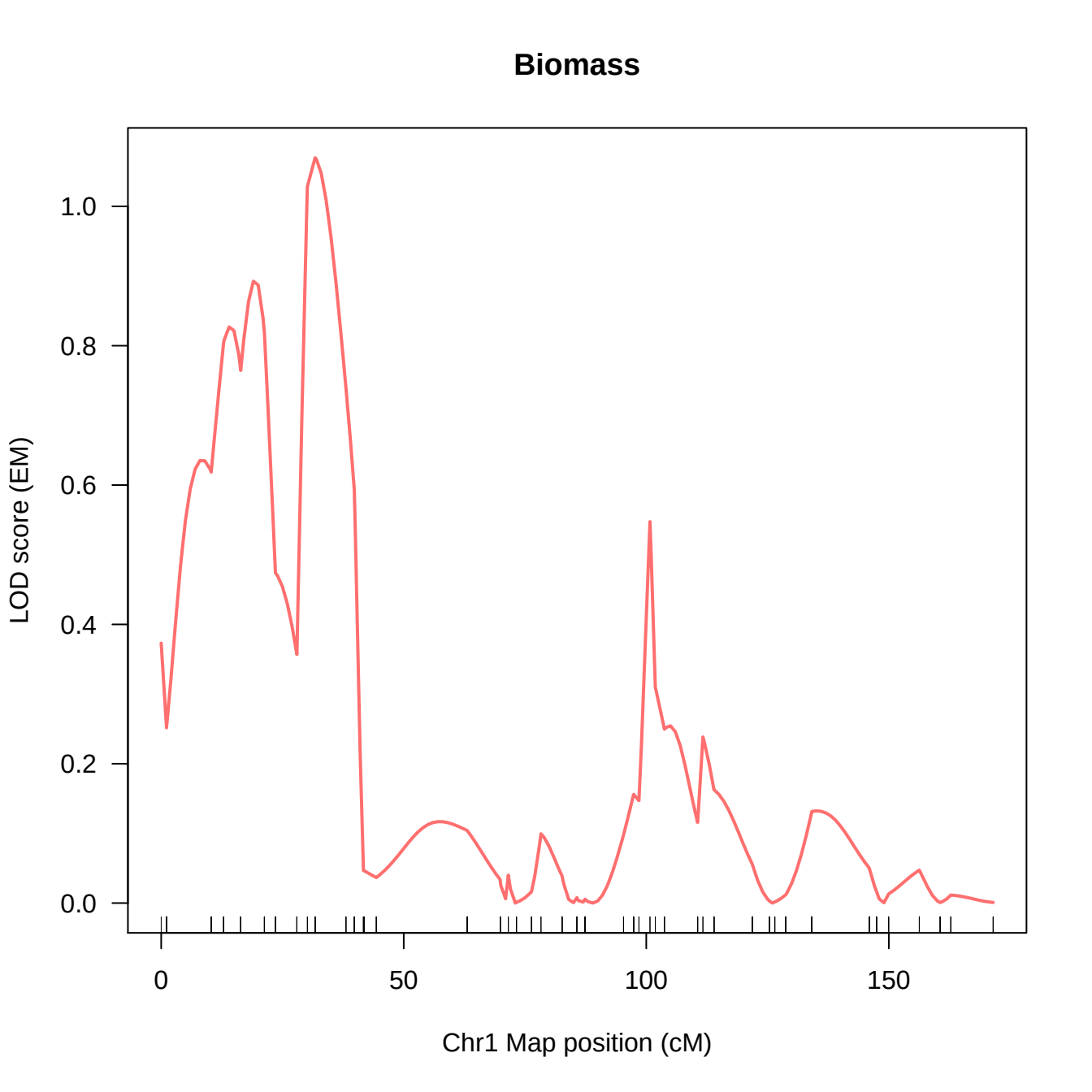

PlantHeight
LOD score
0
1
2
3
0
20
40
60
80
Chr12 Map position (cM)

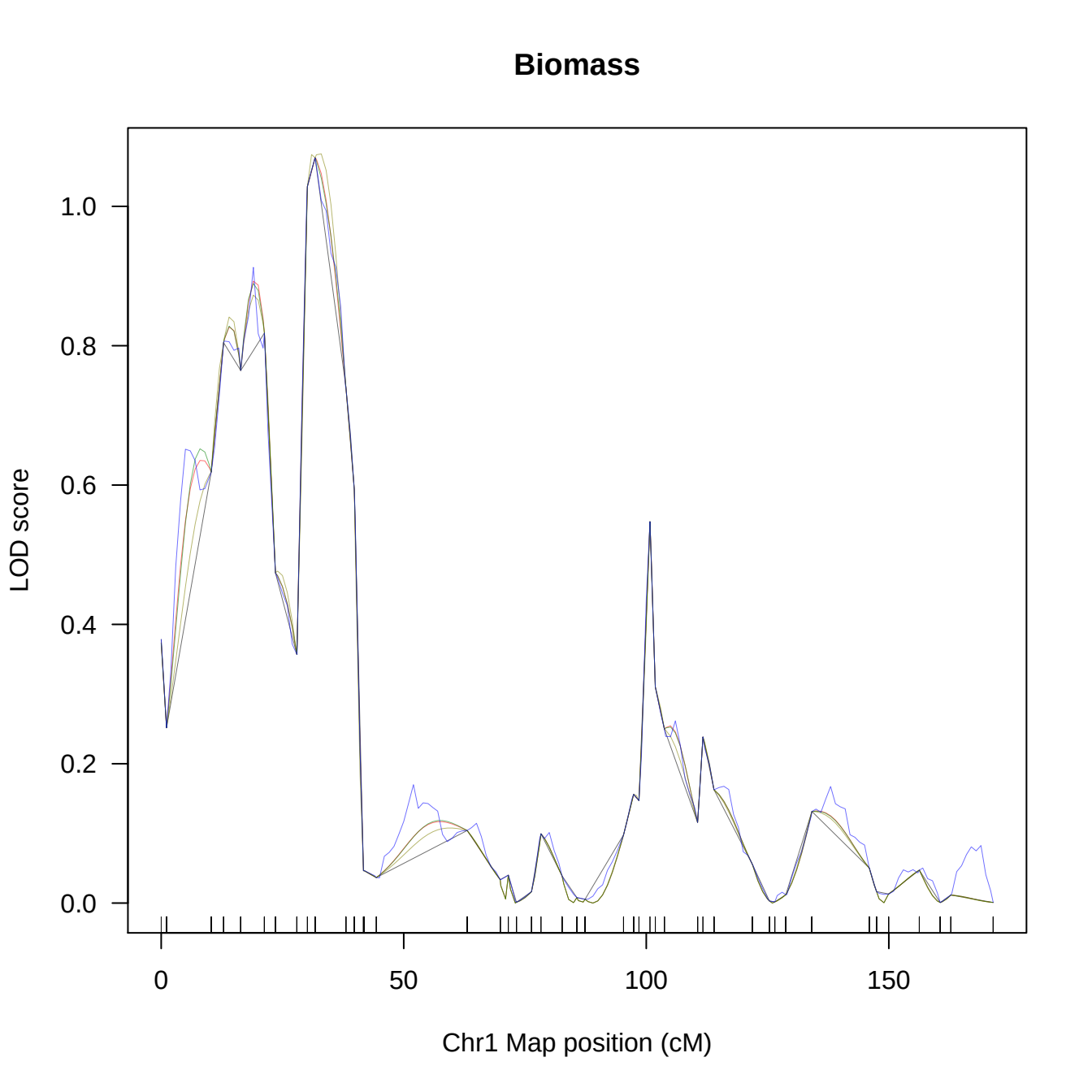

Biomass
LOD score (MR)
0.0
0.5
1.0
1.5
1
2
3
4
5
6
7
8
9
10
11
12
Chromosome

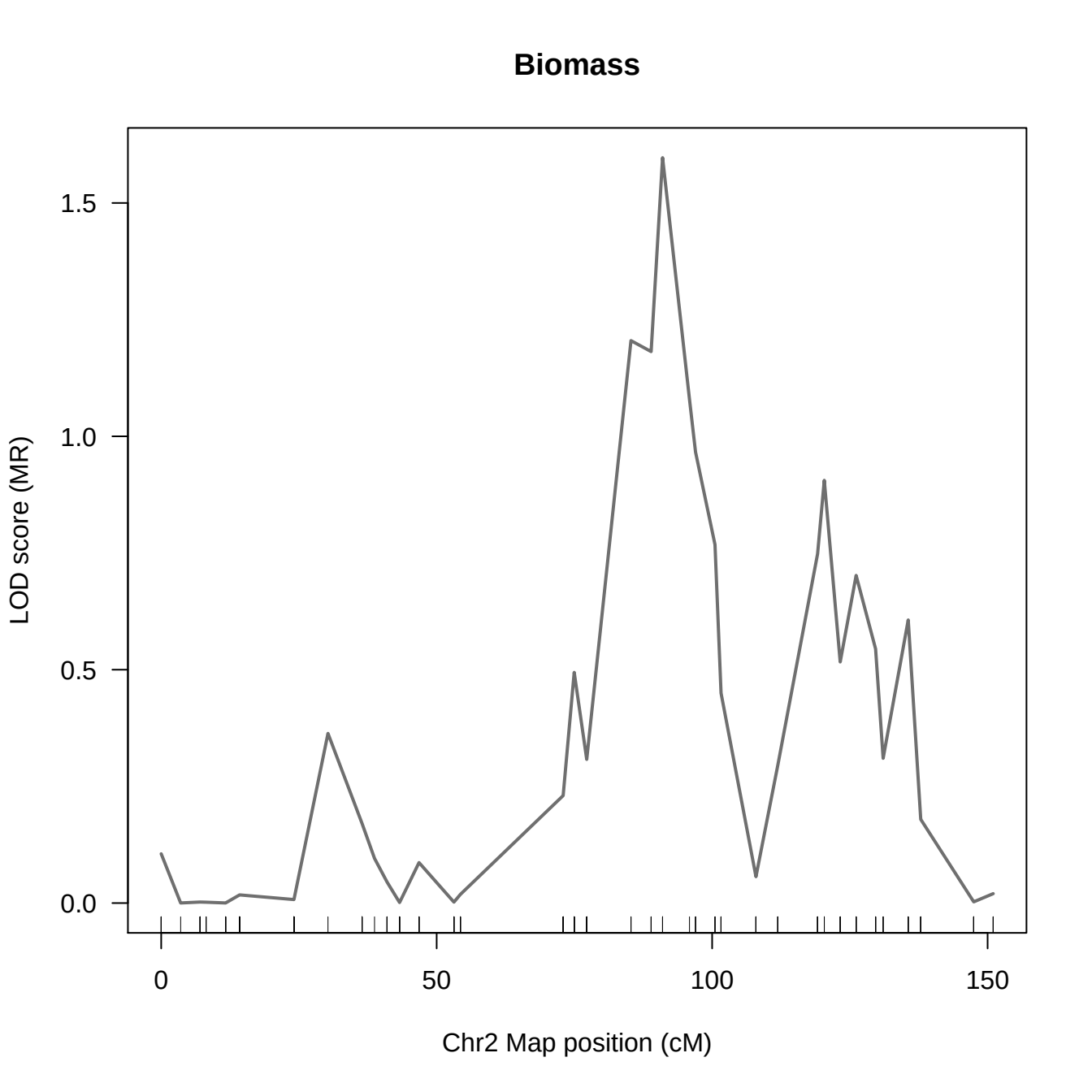

Biomass
LOD score (EM)
0.0
0.5
1.0
1.5
1
2
3
4
5
6
7
8
9
10
11
12
Chromosome

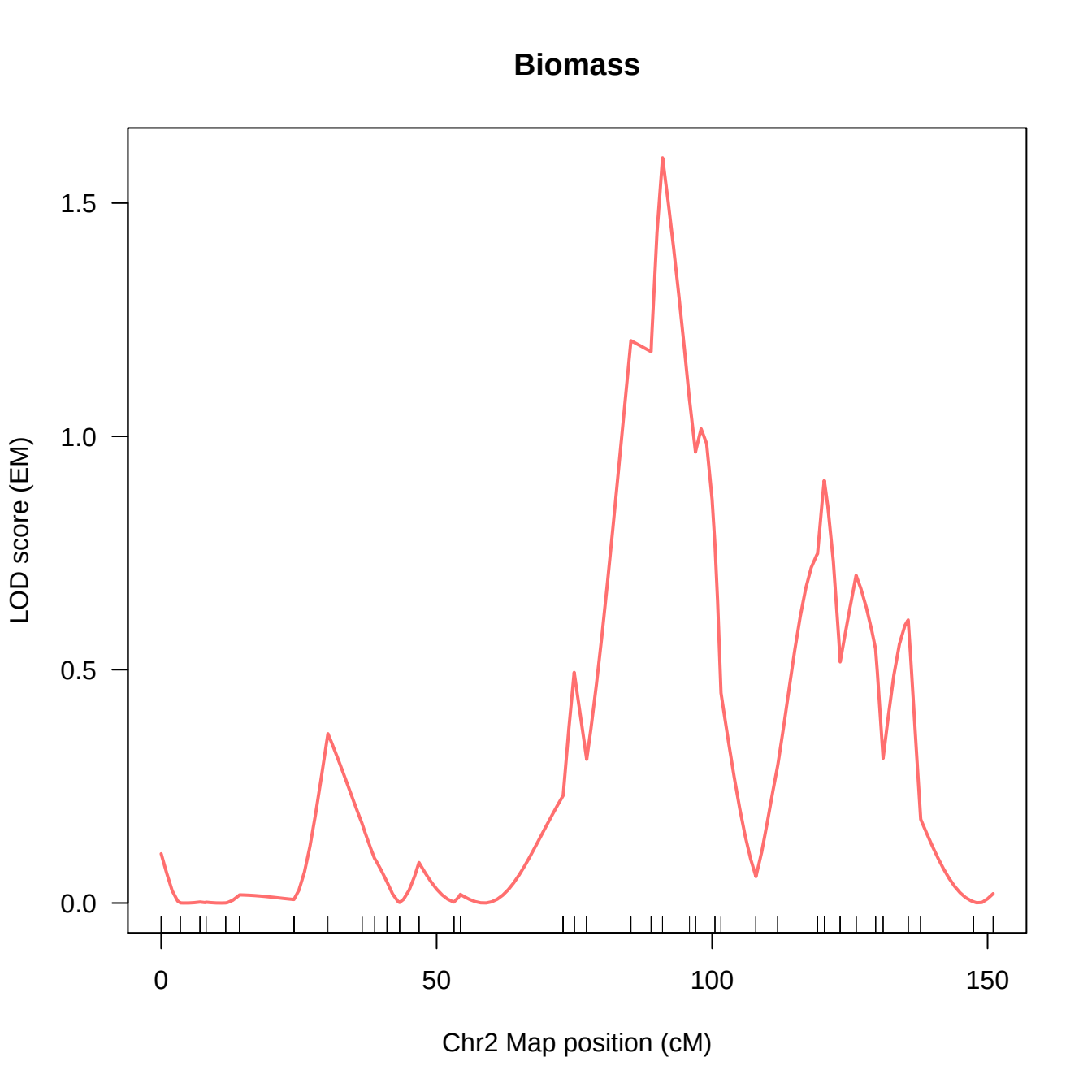

Biomass
LOD score
0.0
0.5
1.0
1.5
1
2
3
4
5
6
7
8
9
10
11
12
Chromosome

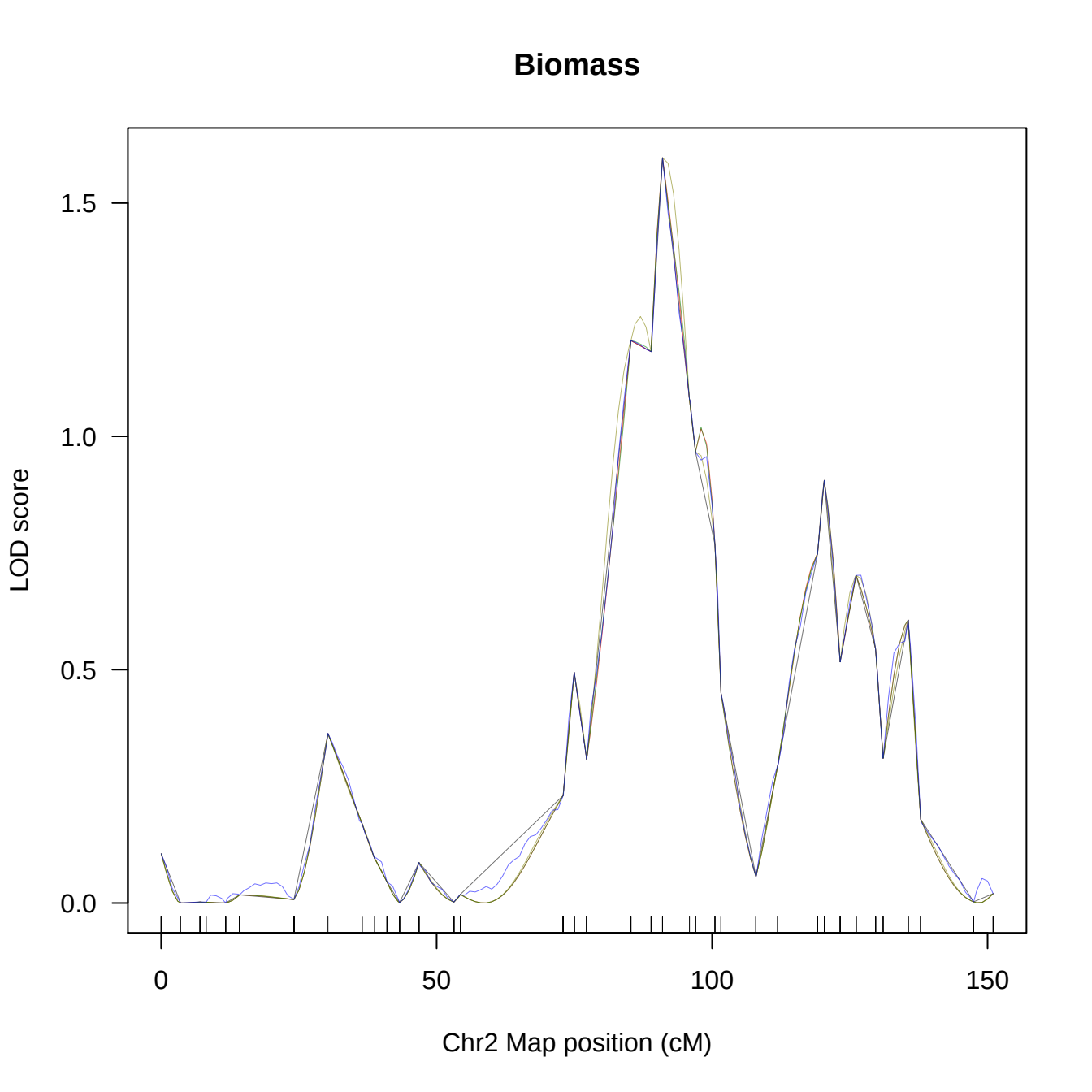

Biomass
LOD score (MR)
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
Chr1 Map position (cM)

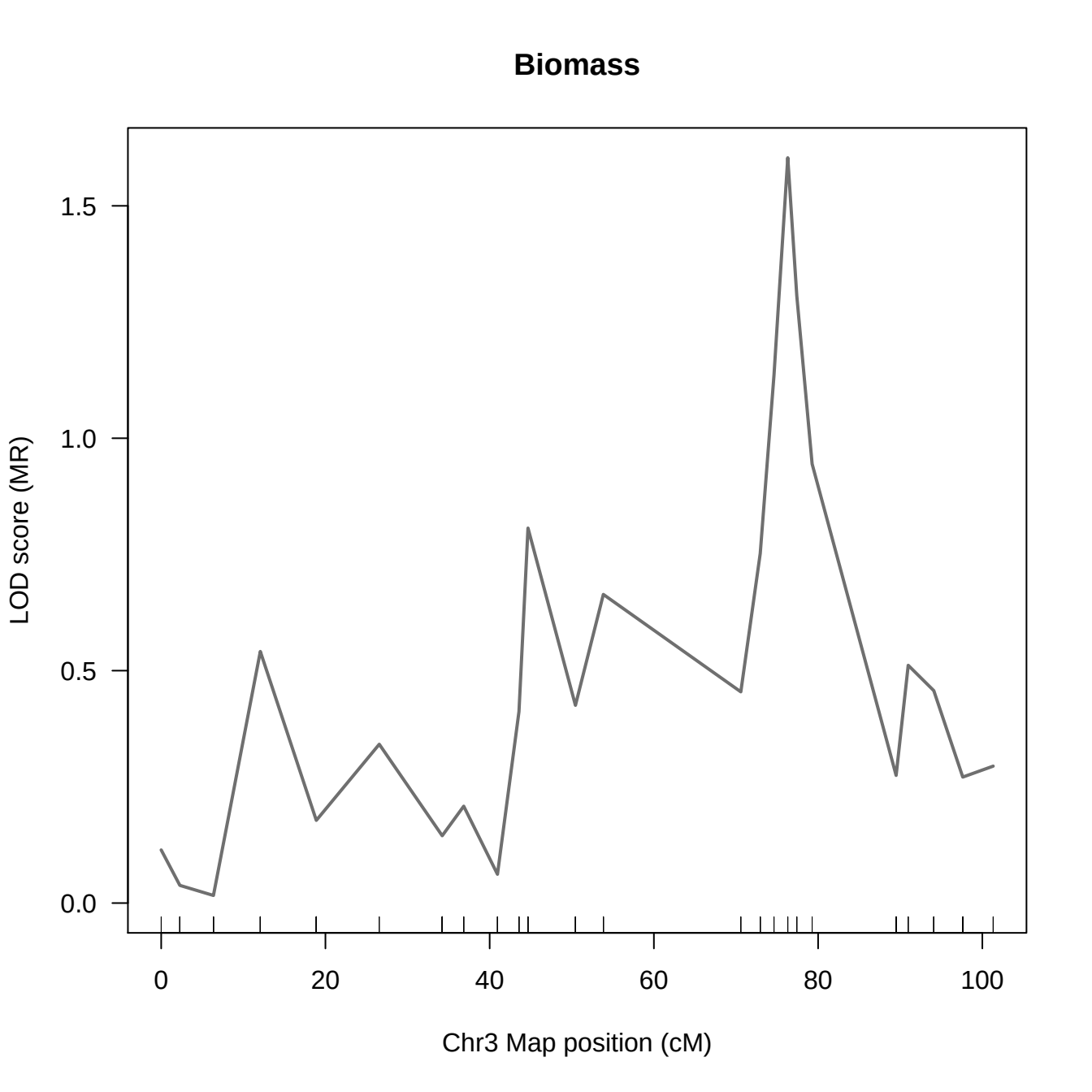

Biomass
LOD score (EM)
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
Chr1 Map position (cM)

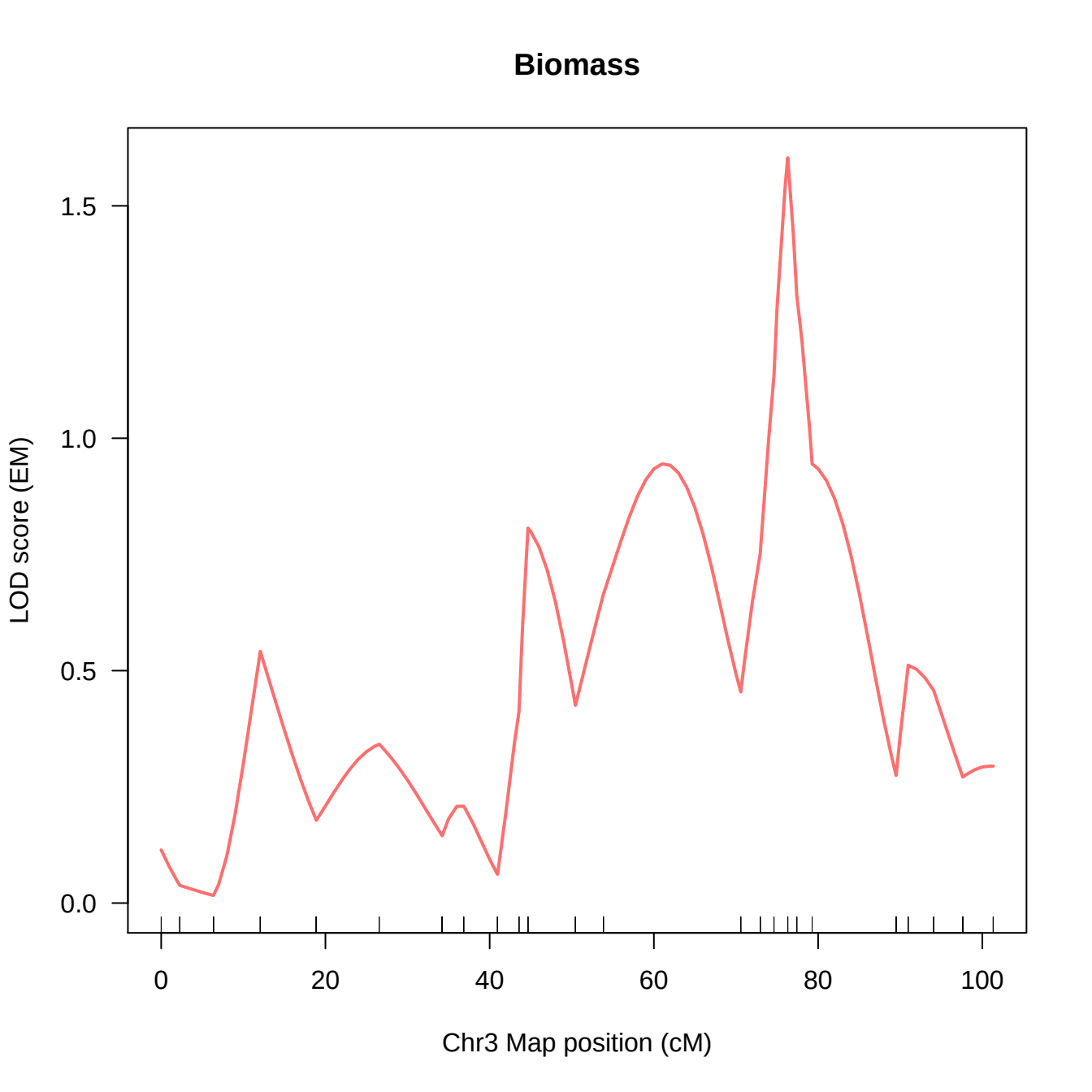

Biomass
LOD score
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
Chr1 Map position (cM)

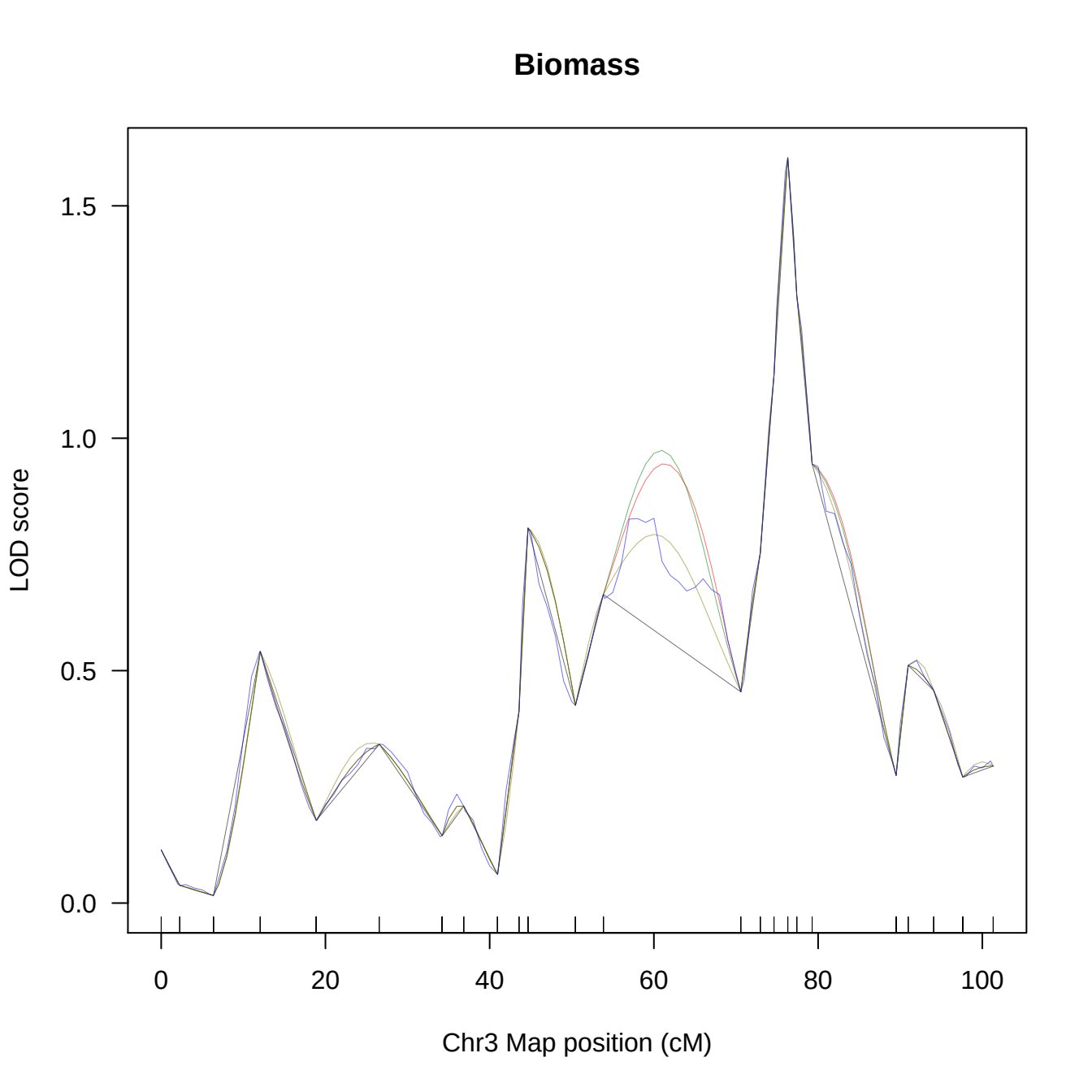

Biomass
LOD score (MR)
1.5
1.0
0.5
0.0
0
50
100
150
Chr2 Map position (cM)

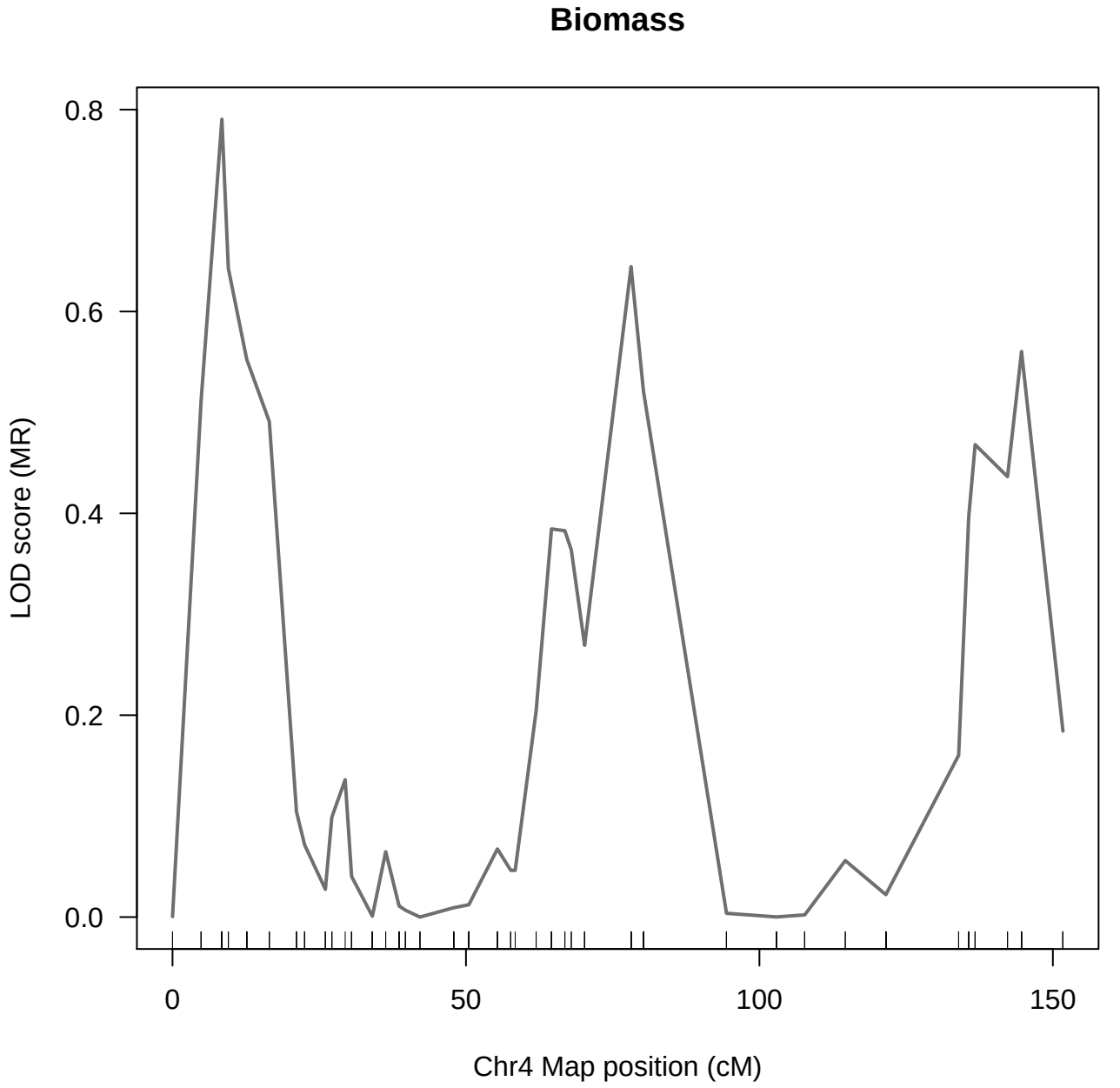

Biomass
LOD score (EM)
1.5
1.0
0.5
0.0
0
50
100
150
Chr2 Map position (cM)

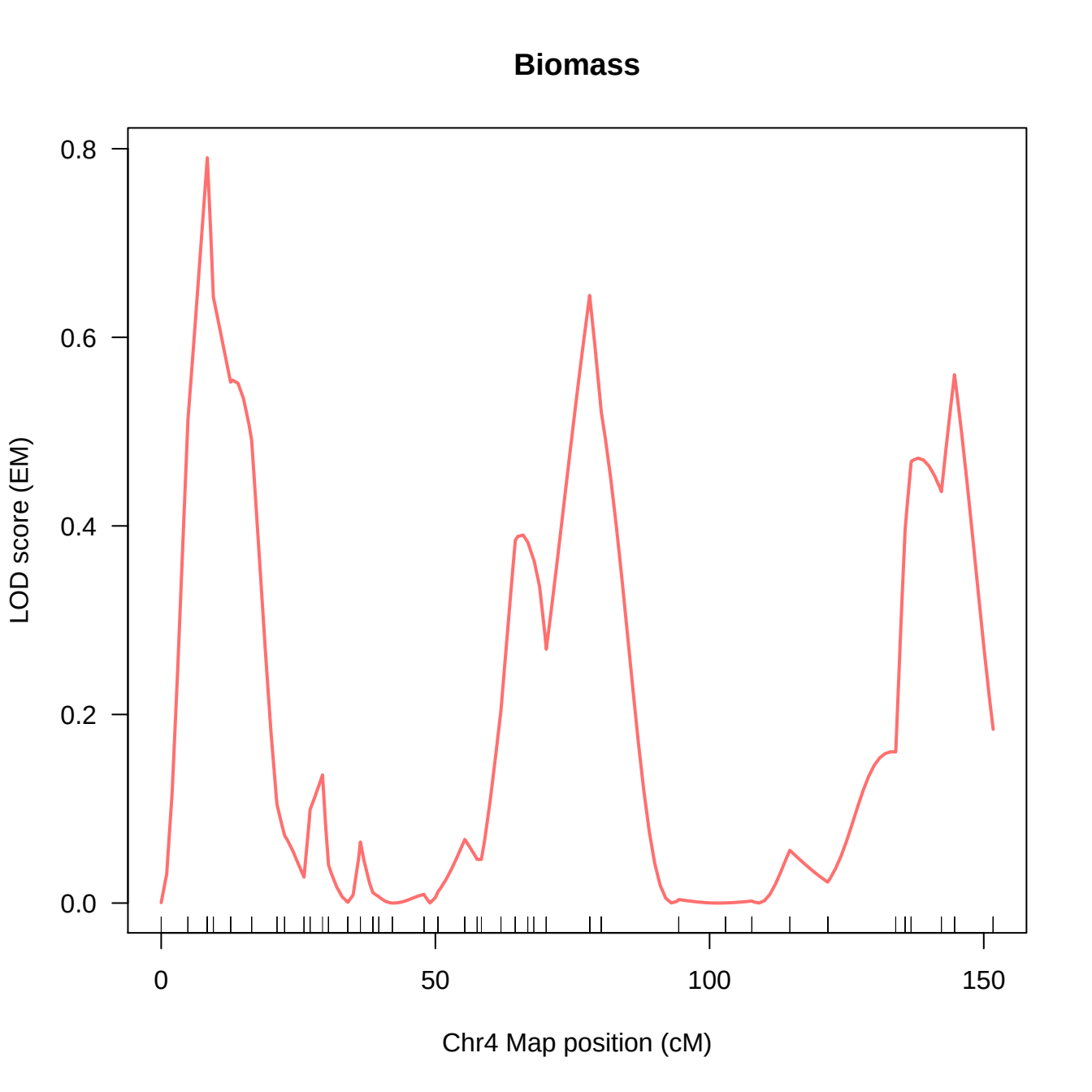

Biomass
LOD score
1.5
1.0
0.5
0.0
0
50
100
150
Chr2 Map position (cM)

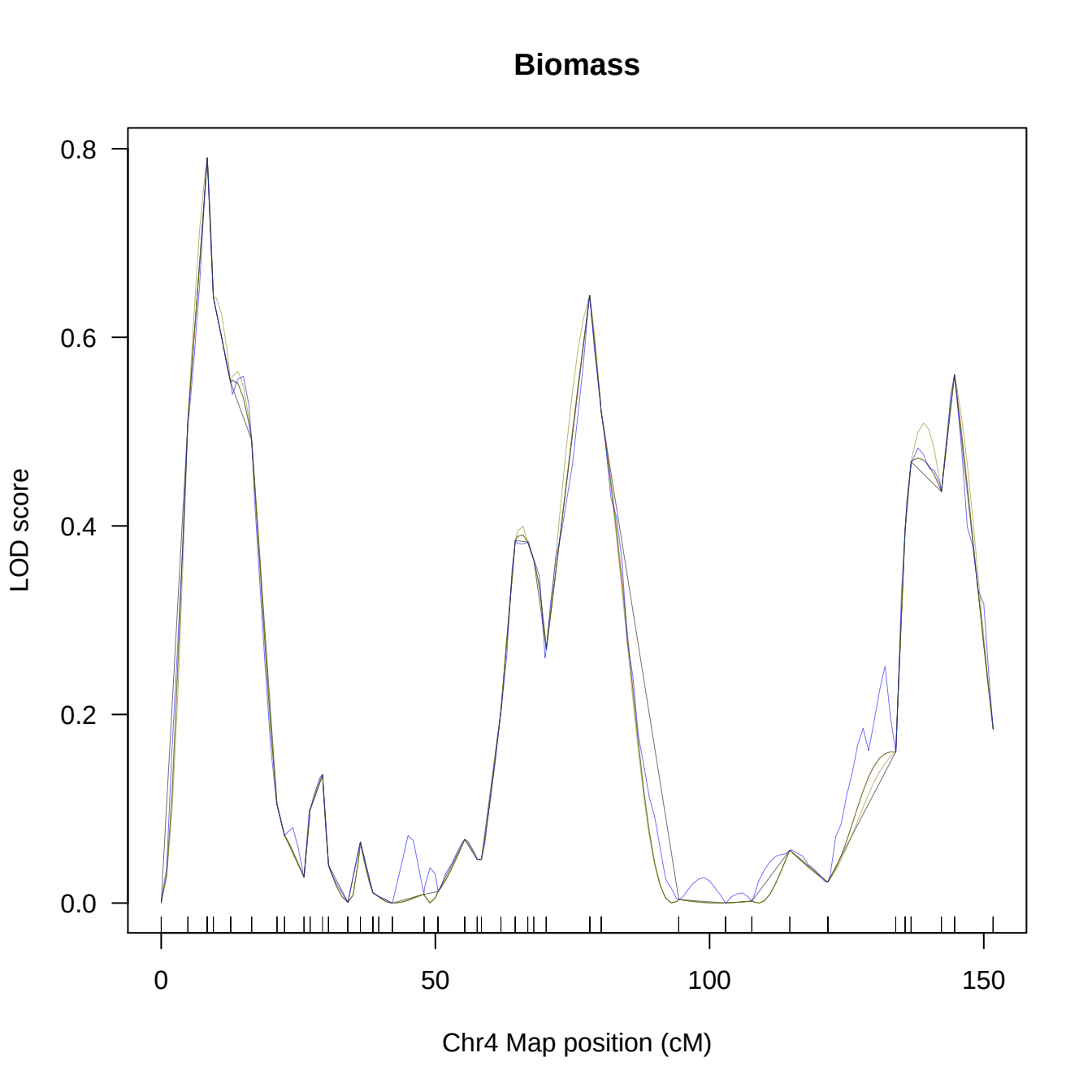

Biomass
LOD score (MR)
0.0
0.5
1.0
1.5
0
20
40
60
80
100
Chr3 Map position (cM)

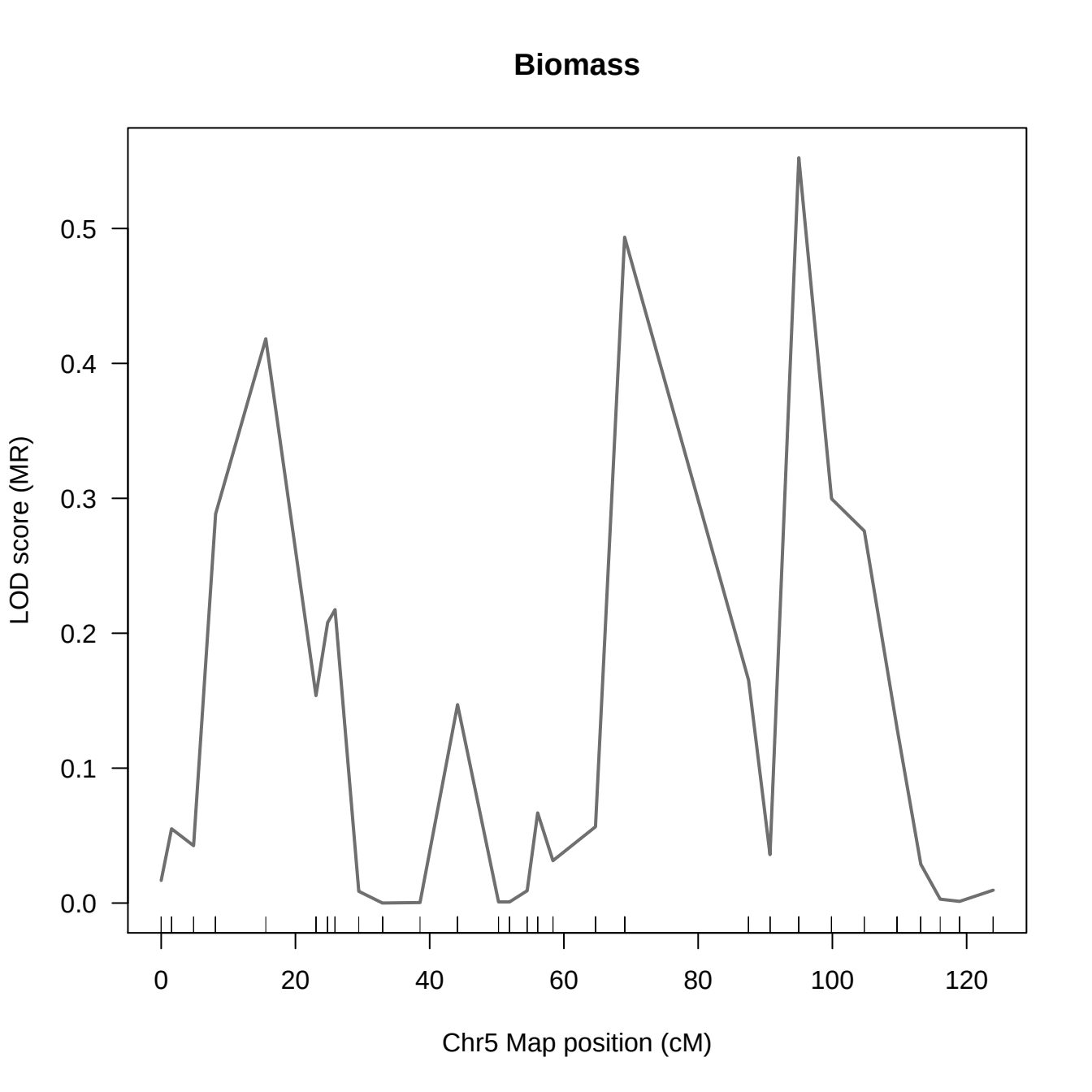

Biomass
LOD score (EM)
0.0
0.5
1.0
1.5
0
20
40
60
80
100
Chr3 Map position (cM)

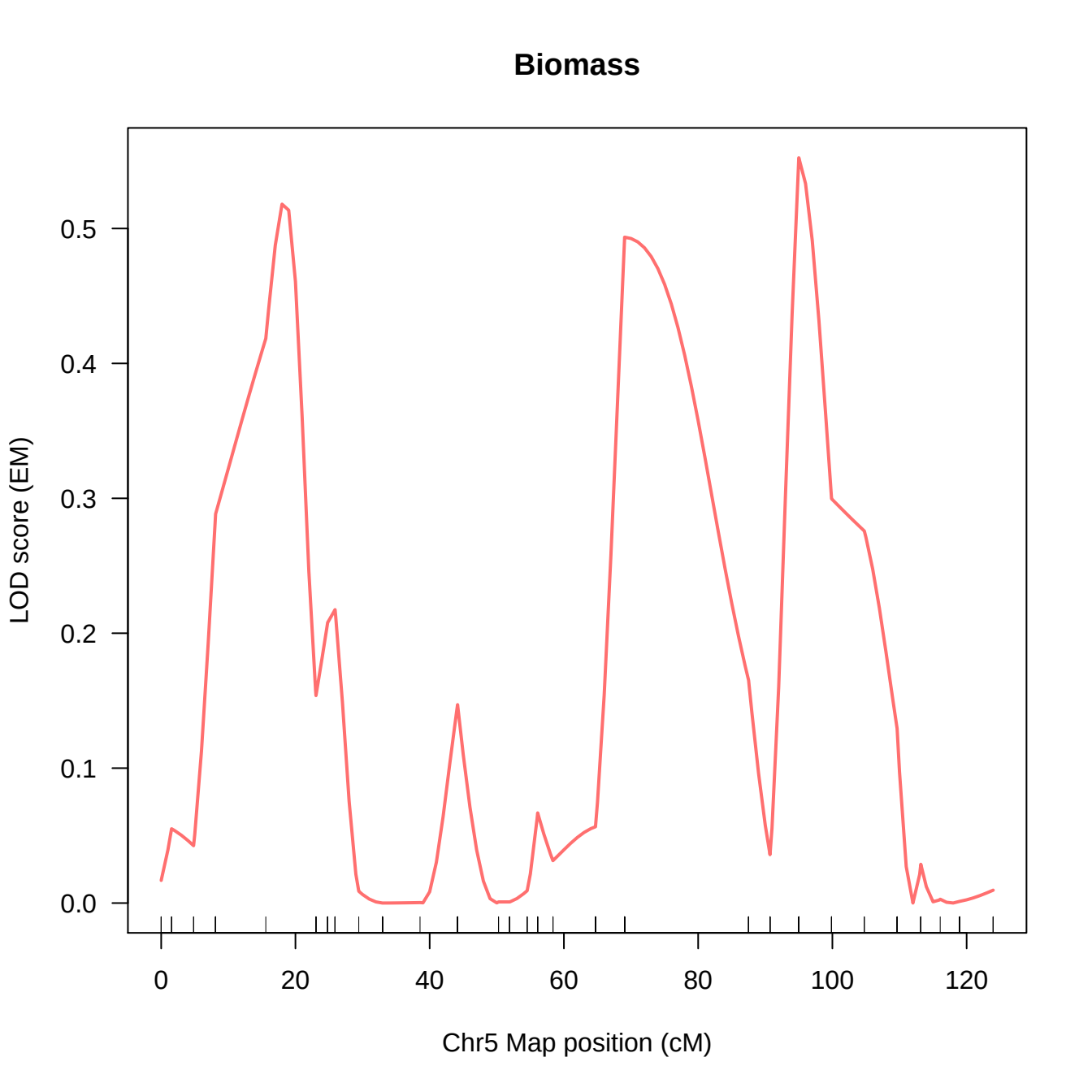

Biomass
LOD score
0.0
0.5
1.0
1.5
0
20
40
60
80
100
Chr3 Map position (cM)

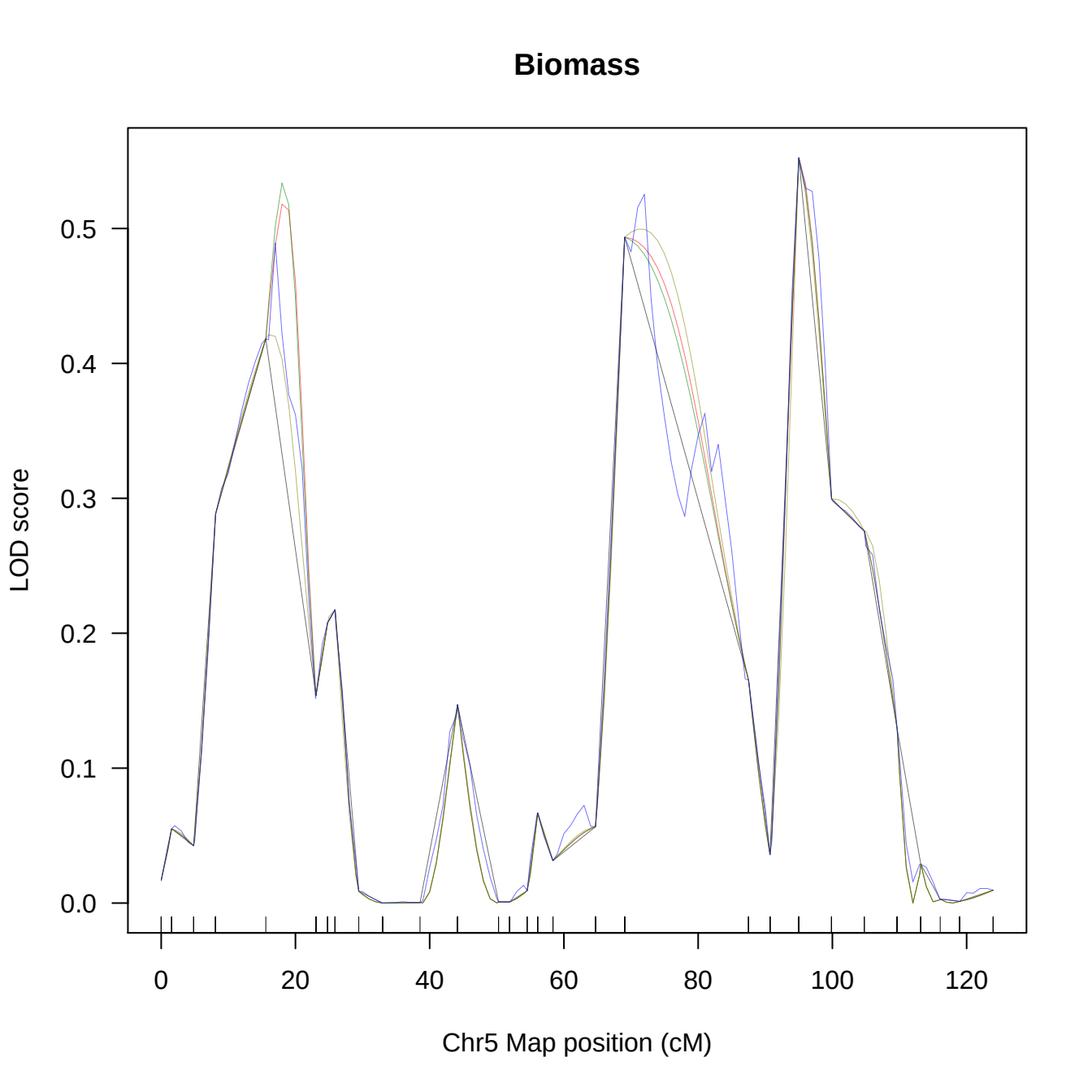

Biomass
LOD score (MR)
0.0
0.2
0.4
0.6
0.8
0
50
100
150
Chr4 Map position (cM)

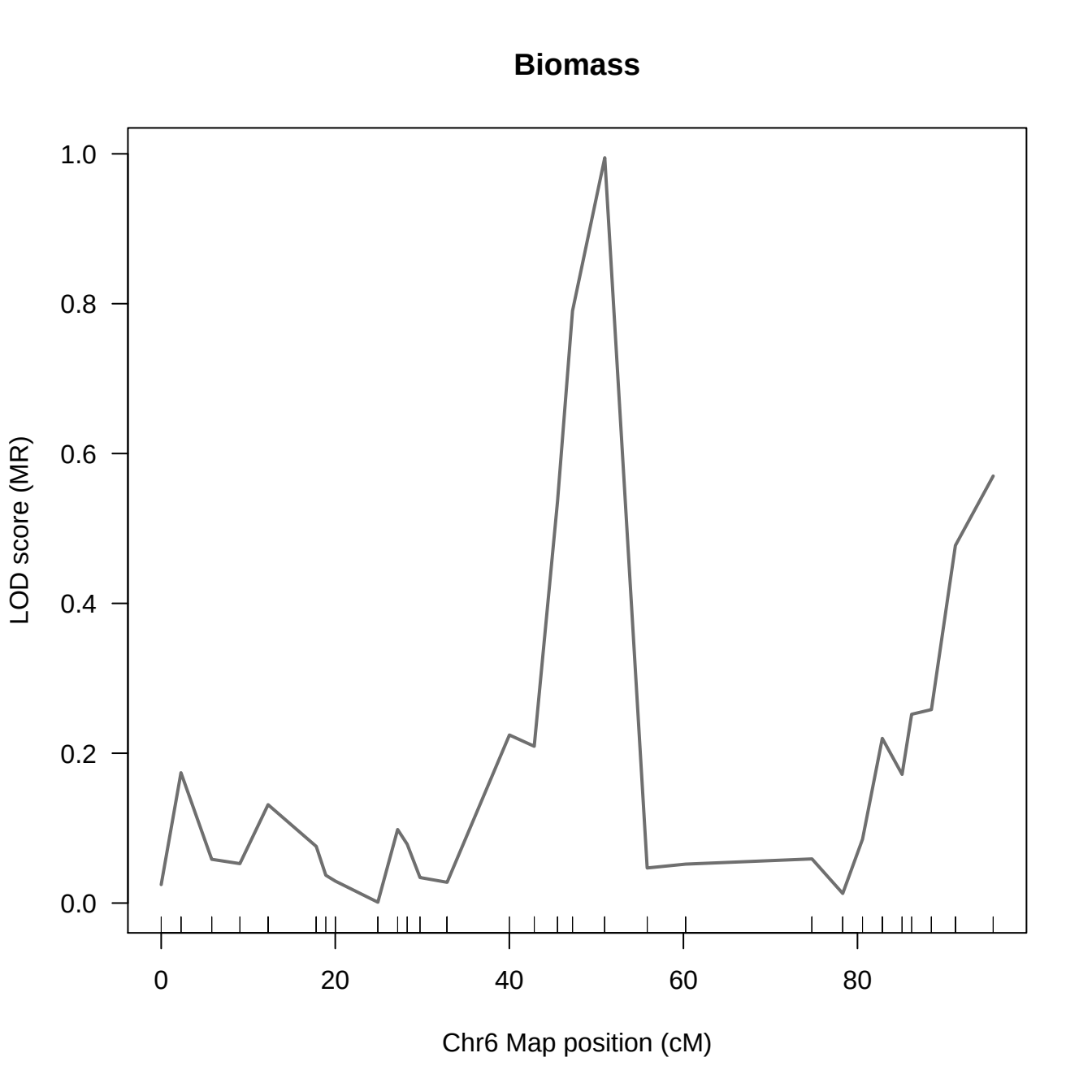

Biomass
LOD score (EM)
0.0
0.2
0.4
0.6
0.8
0
50
100
150
Chr4 Map position (cM)

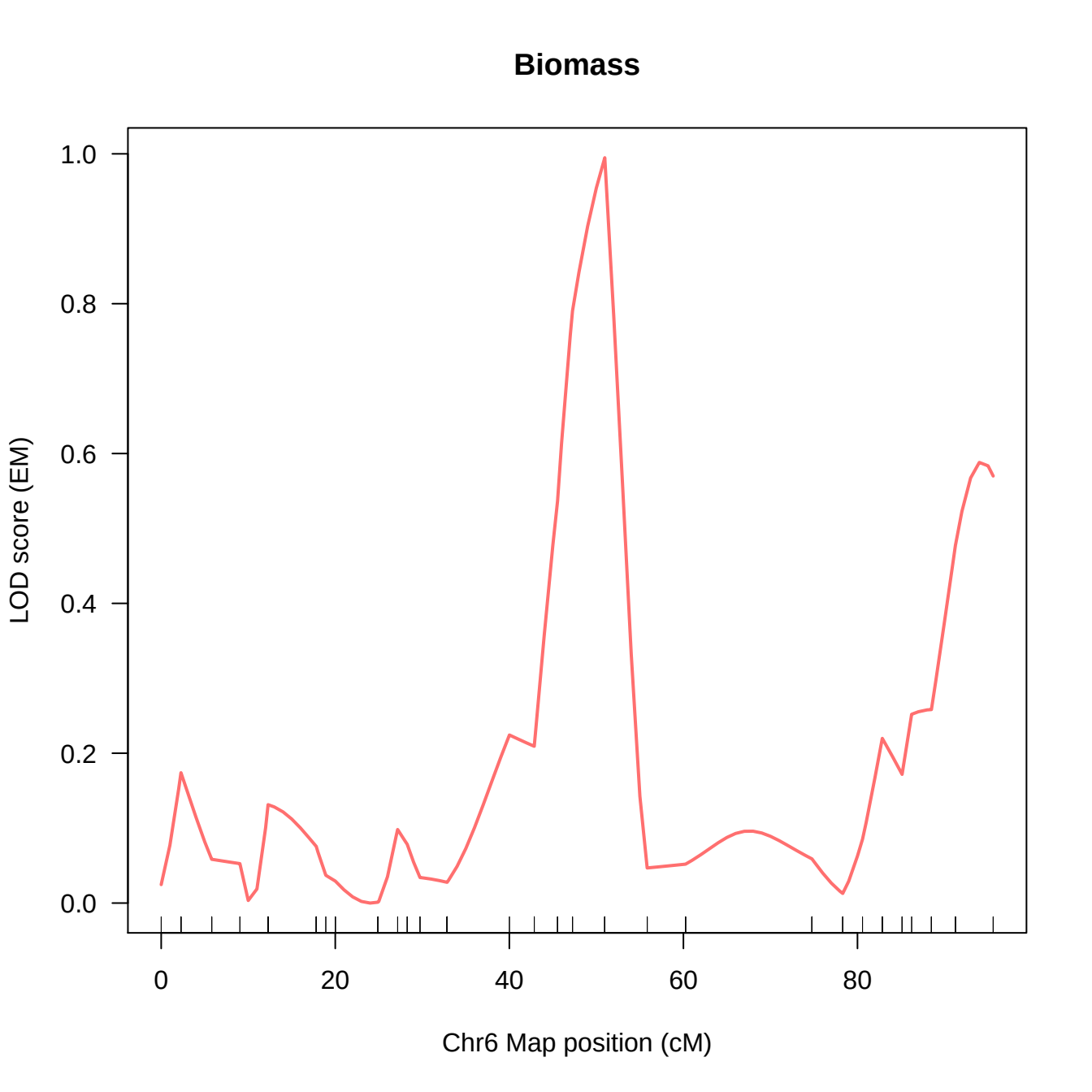

Biomass
LOD score
0.0
0.2
0.4
0.6
0.8
0
50
100
150
Chr4 Map position (cM)

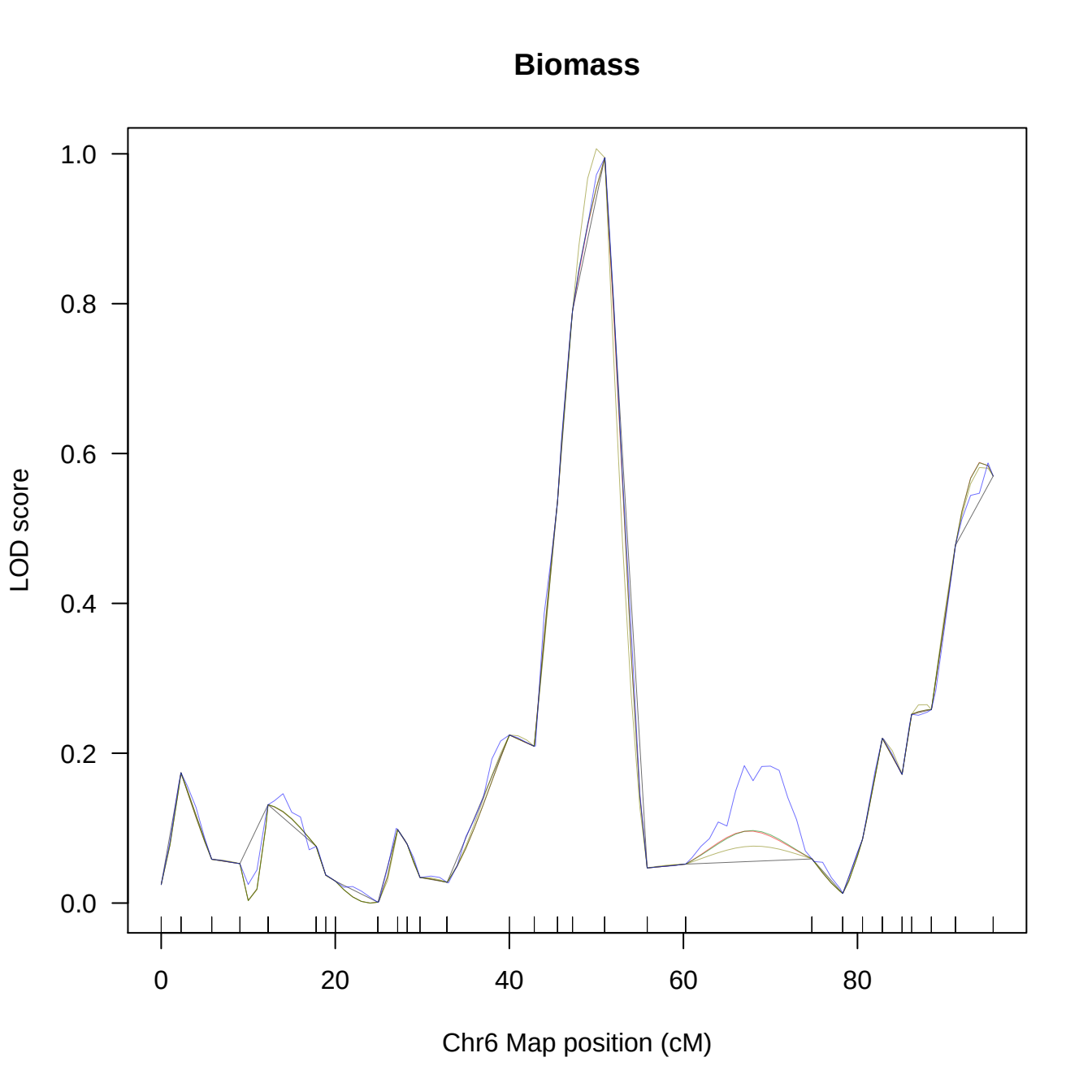

Biomass
LOD score (MR)
0.0
0.1
0.2
0.3
0.4
0.5
0
20
40
60
80
100
120
Chr5 Map position (cM)

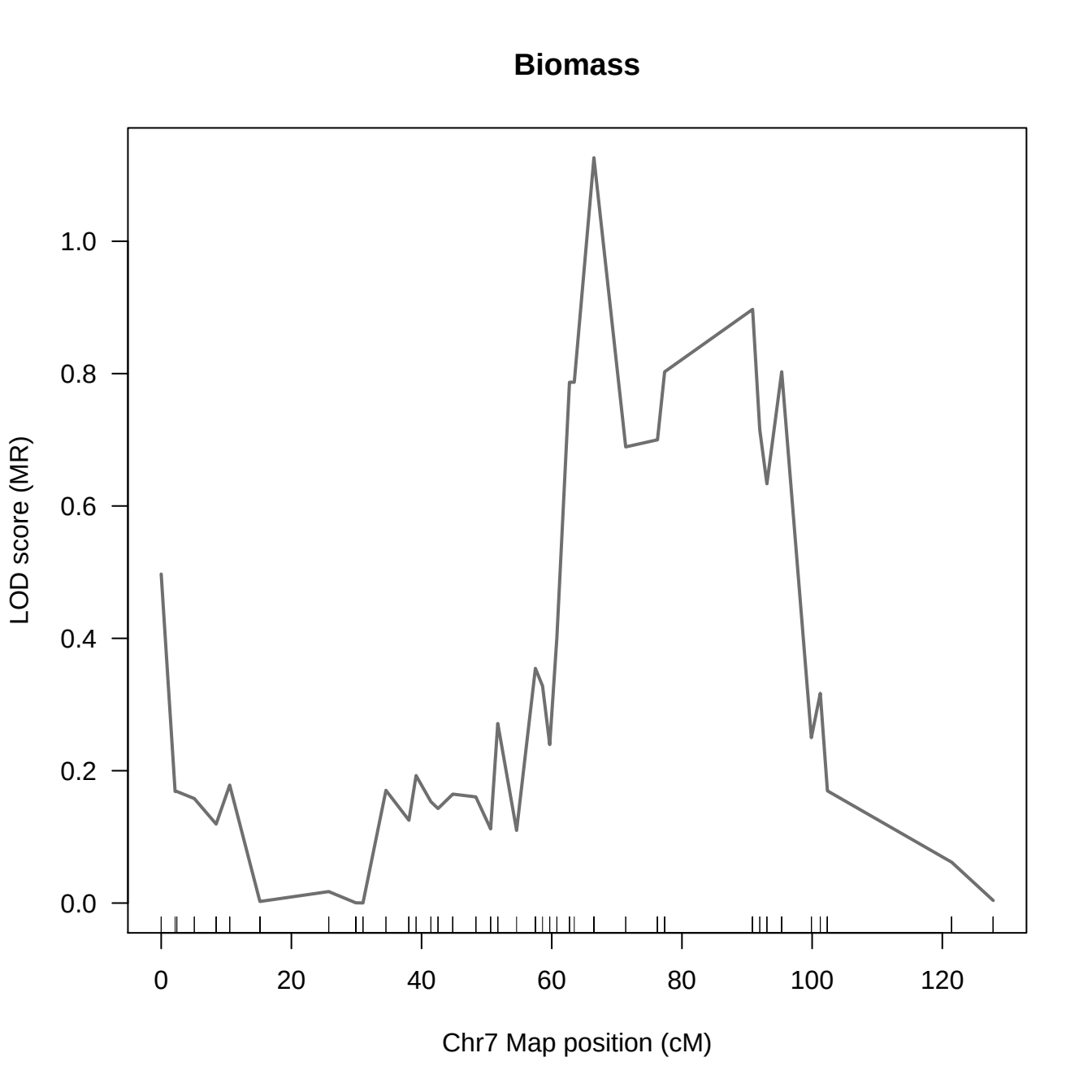

Biomass
LOD score (EM)
0.0
0.1
0.2
0.3
0.4
0.5
0
20
40
60
80
100
120
Chr5 Map position (cM)

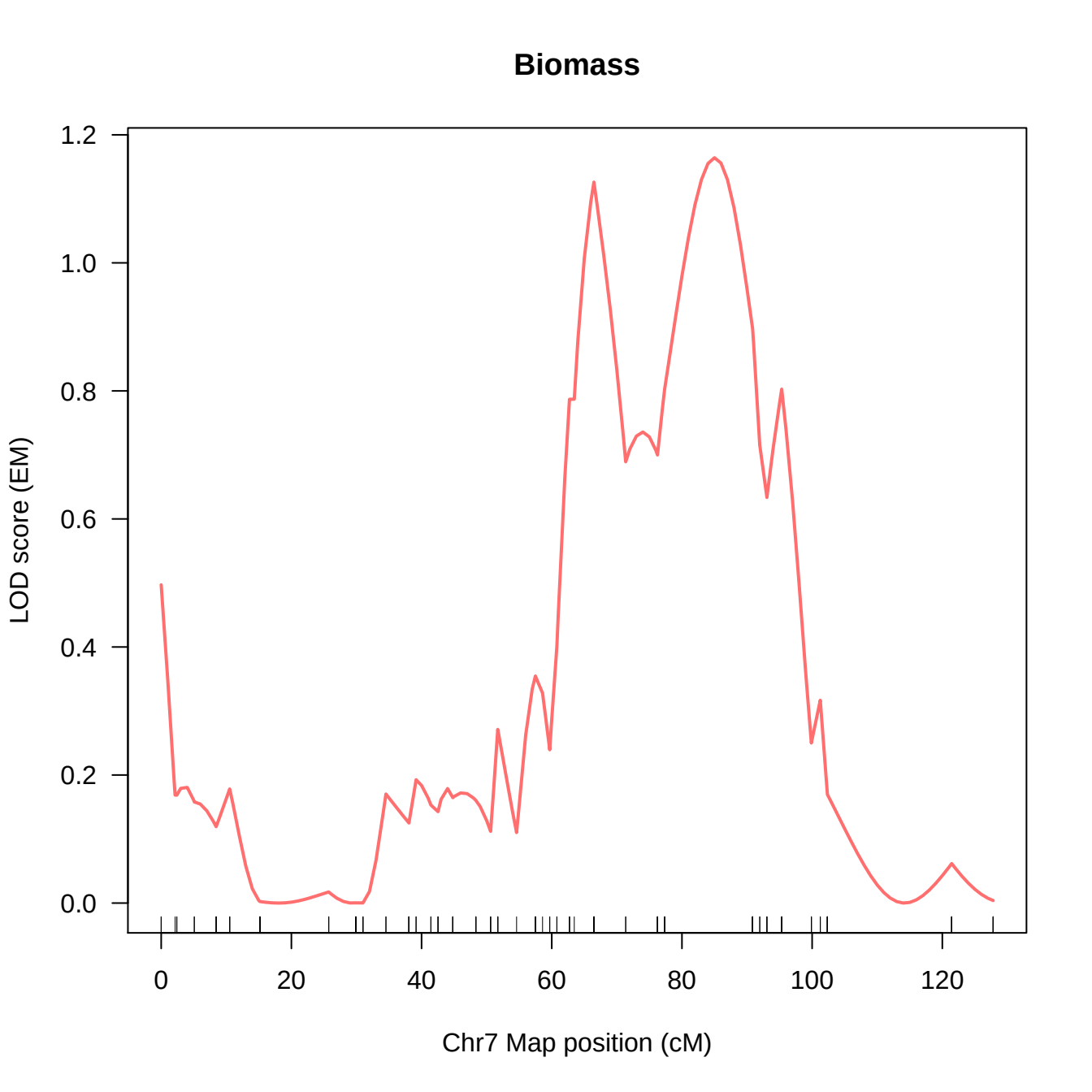

Biomass
LOD score
0.0
0.1
0.2
0.3
0.4
0.5
0
20
40
60
80
100
120
Chr5 Map position (cM)

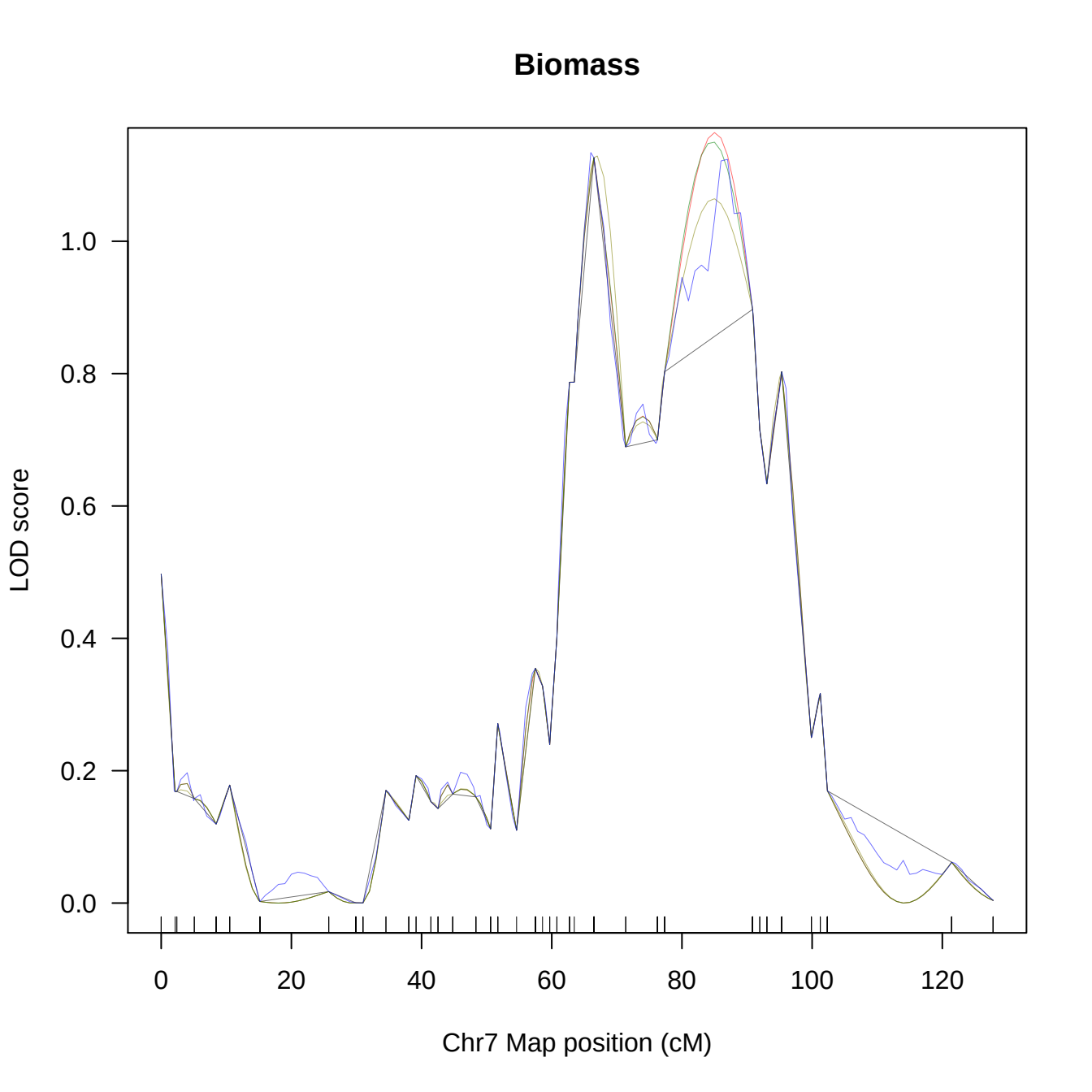

Biomass
1.0
0.8
0.6
0.4
0.2
0.0
LOD score (MR)
0
20
40
60
80
Chr6 Map position (cM)

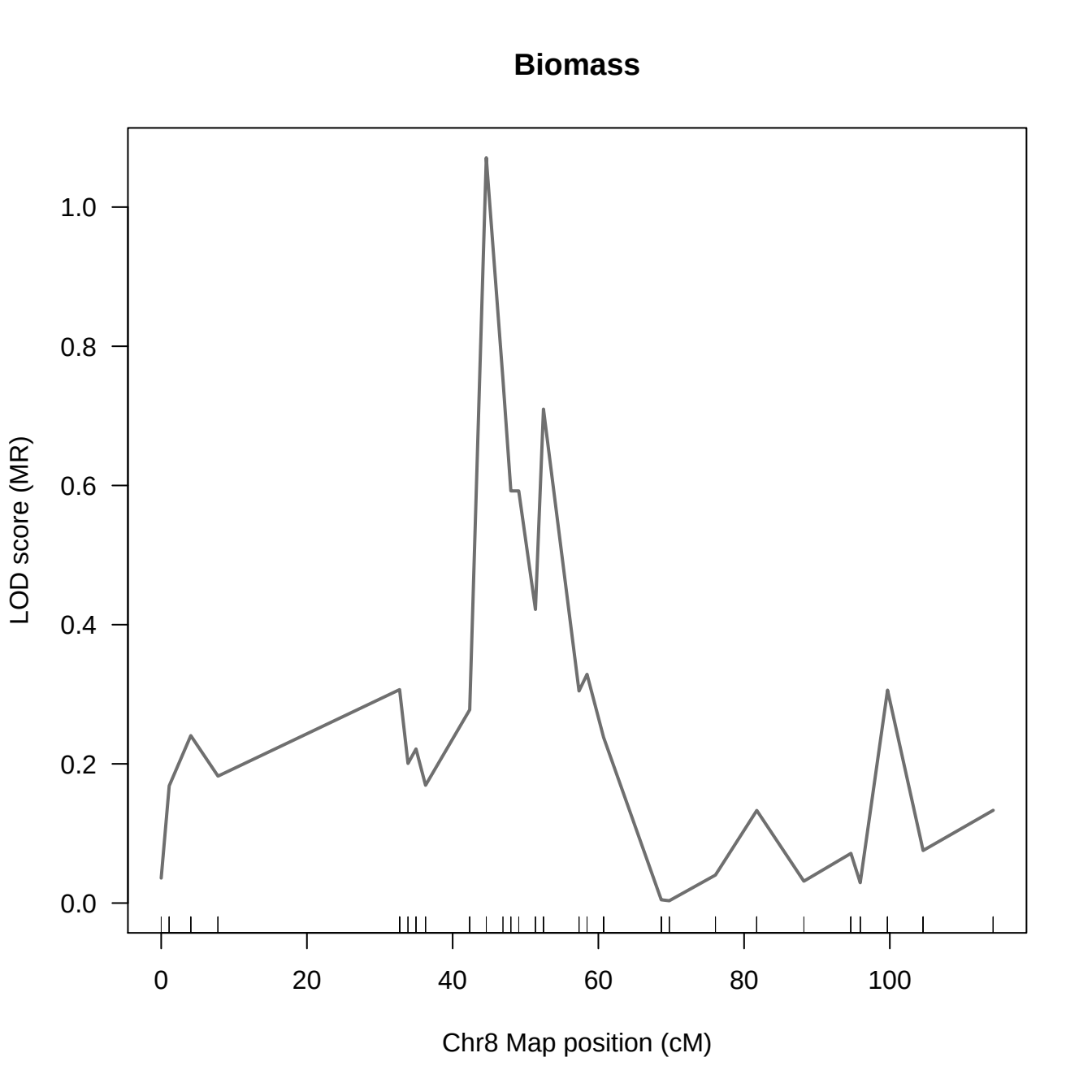

Biomass
1.0
0.8
0.6
0.4
0.2
0.0
LOD score (EM)
0
20
40
60
80
Chr6 Map position (cM)

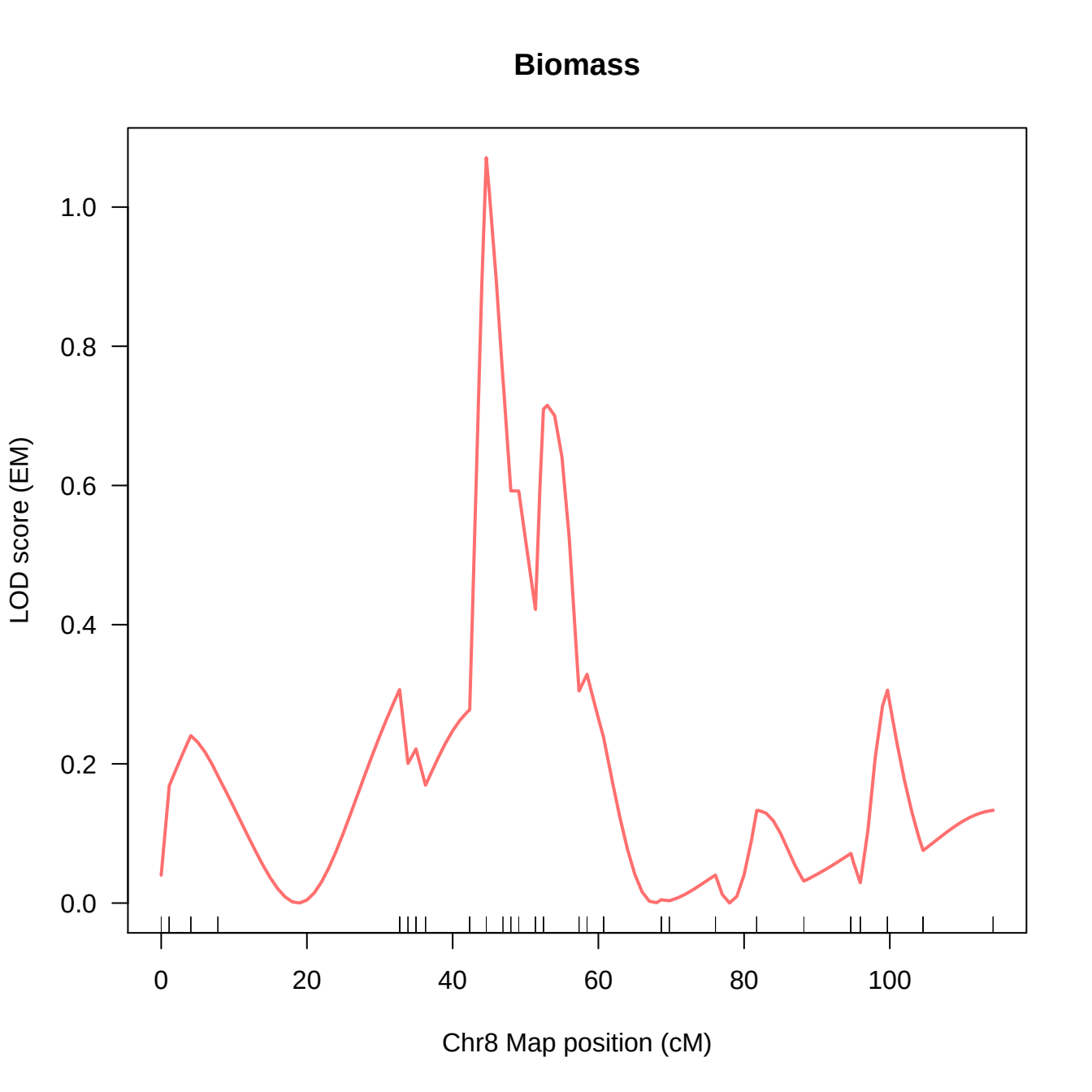

Biomass
LOD score
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
Chr6 Map position (cM)

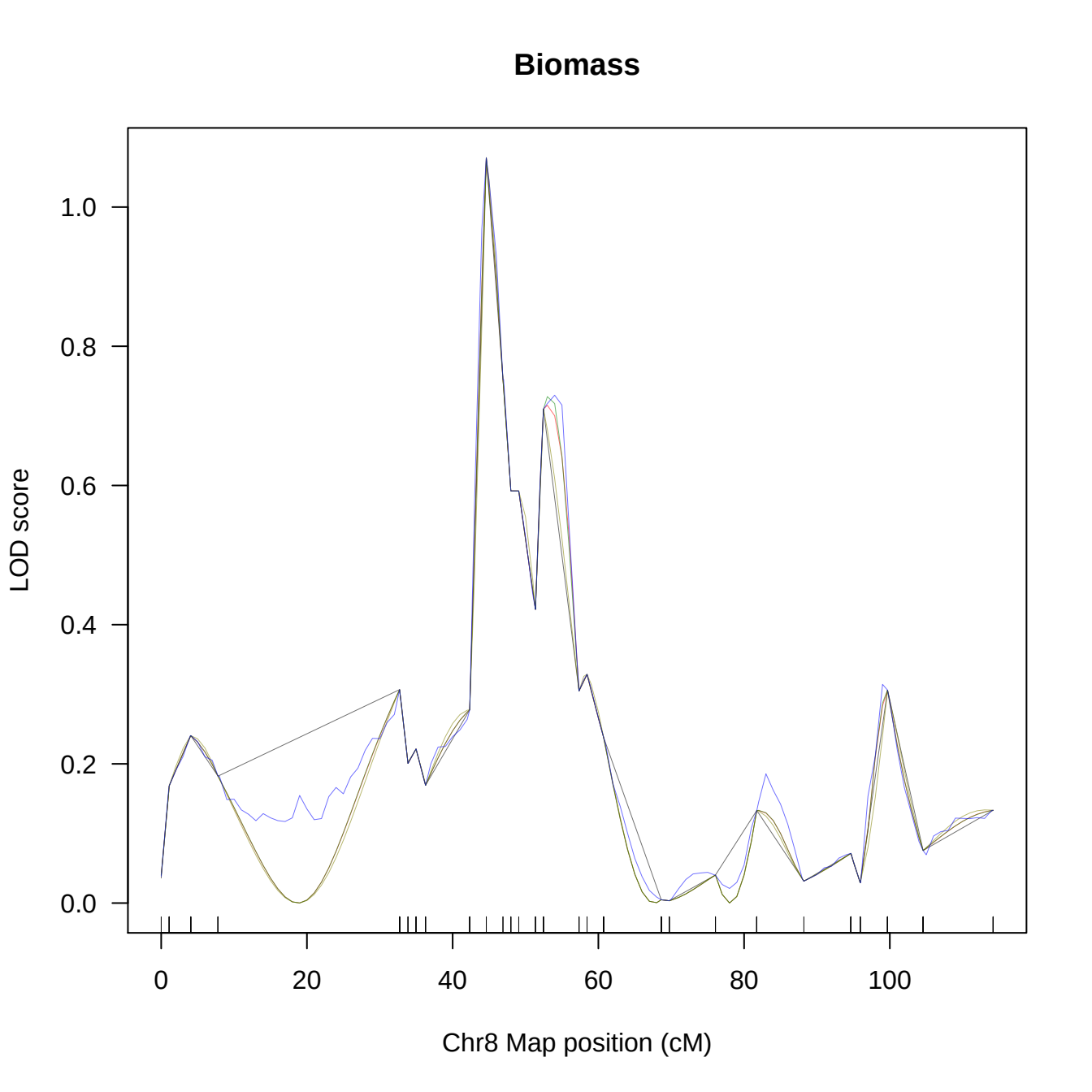

Biomass
LOD score (MR)
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
100
120
Chr7 Map position (cM)

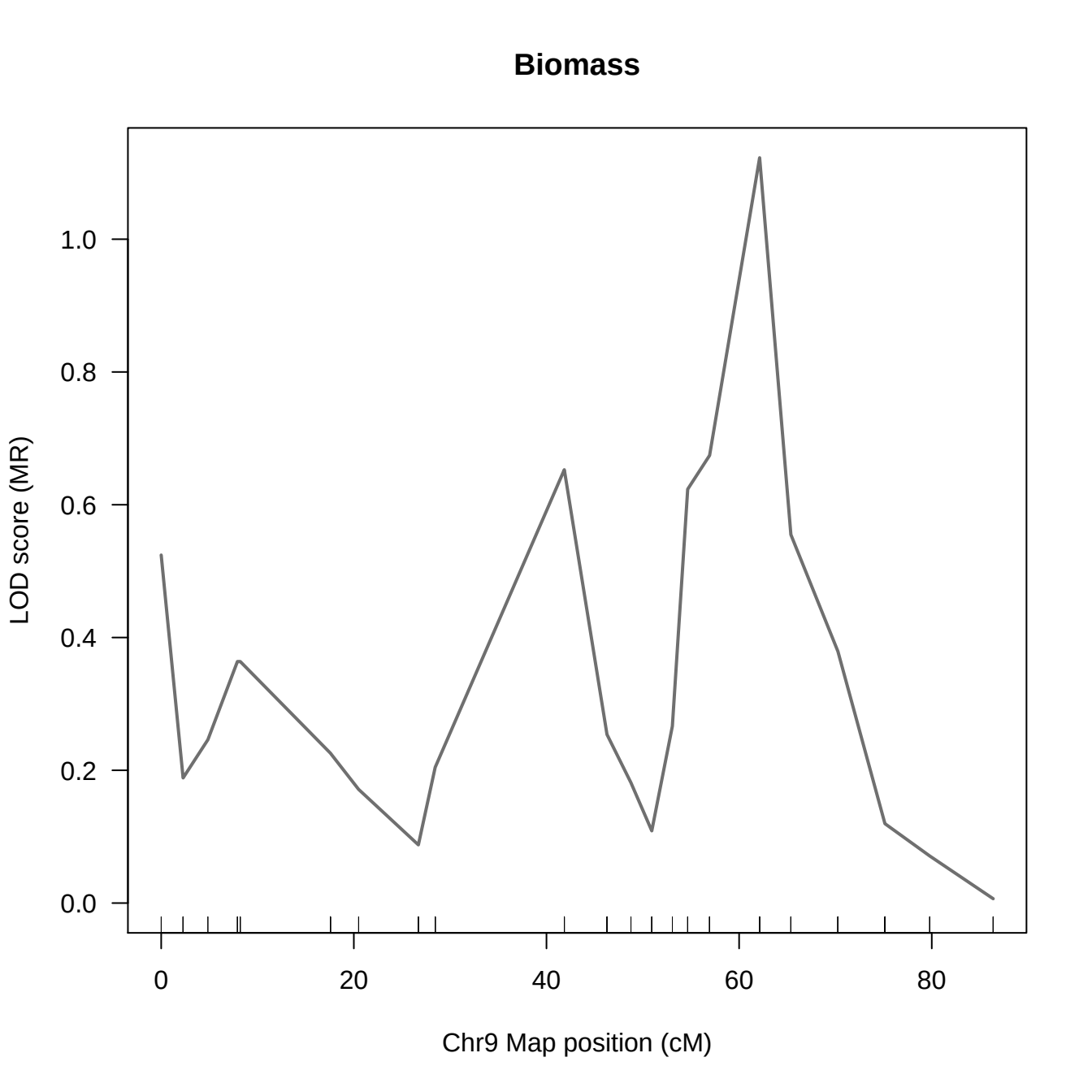

Biomass
LOD score (EM)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
100
120
Chr7 Map position (cM)

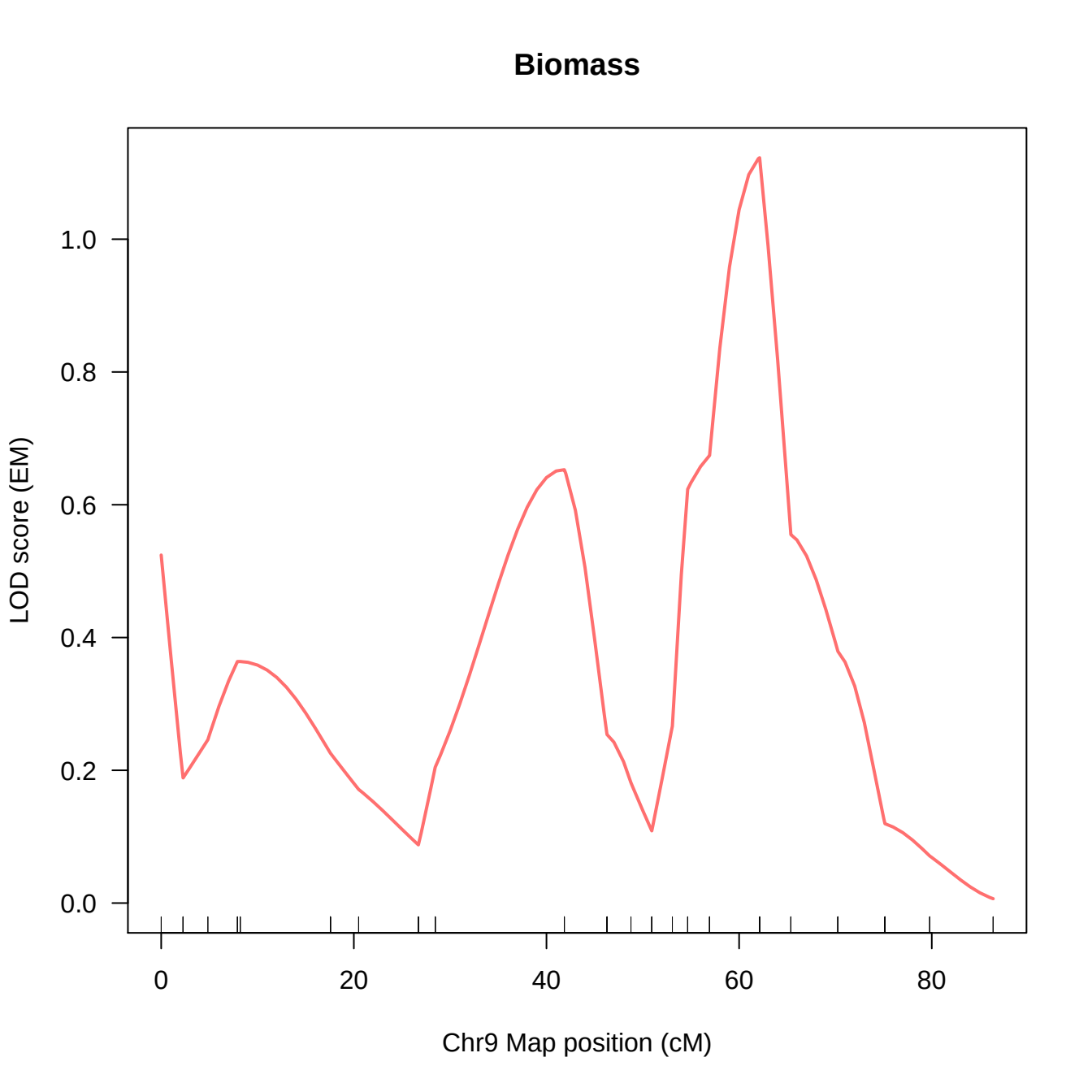

Biomass
LOD score
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
100
120
Chr7 Map position (cM)

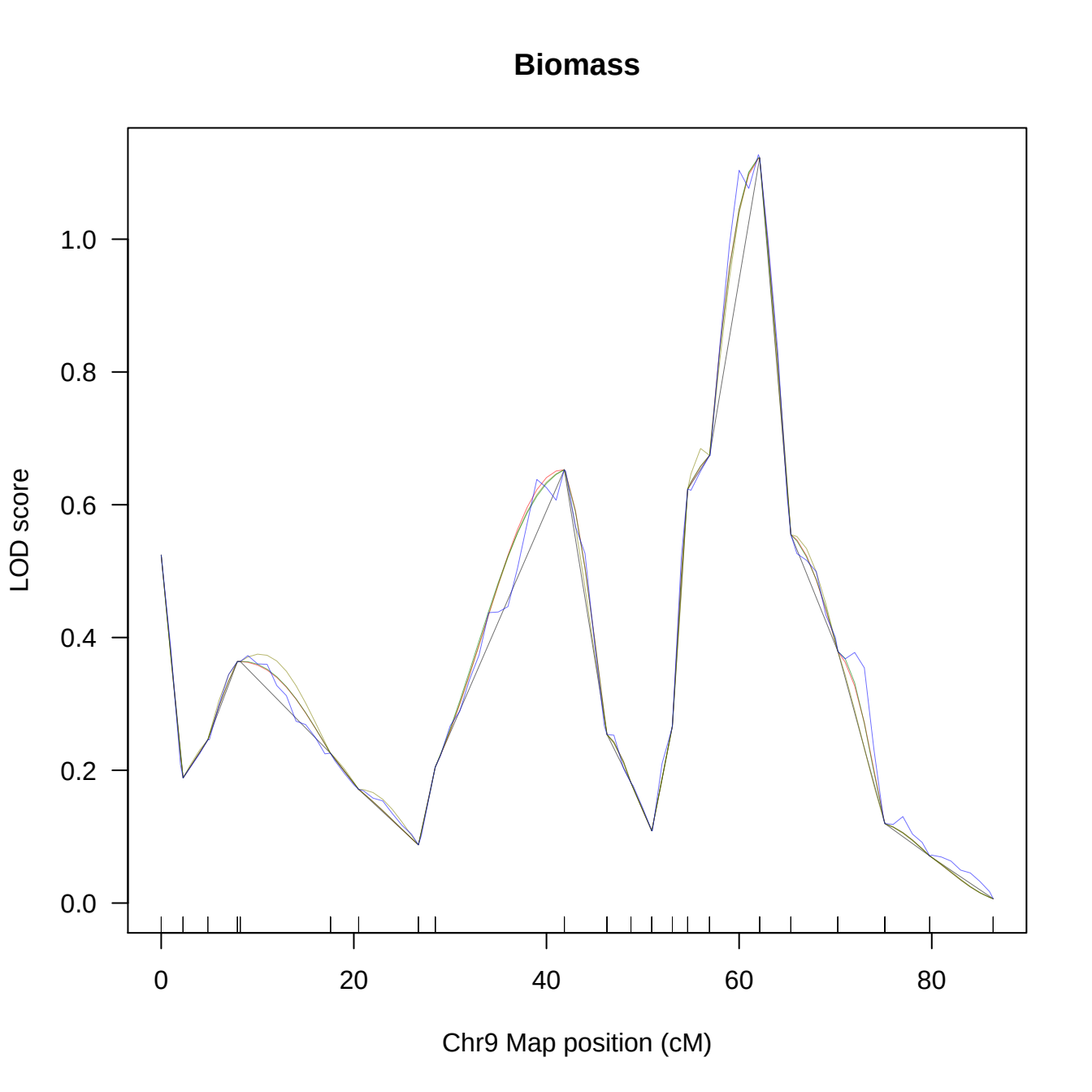

Biomass
LOD score (MR)
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
100
Chr8 Map position (cM)

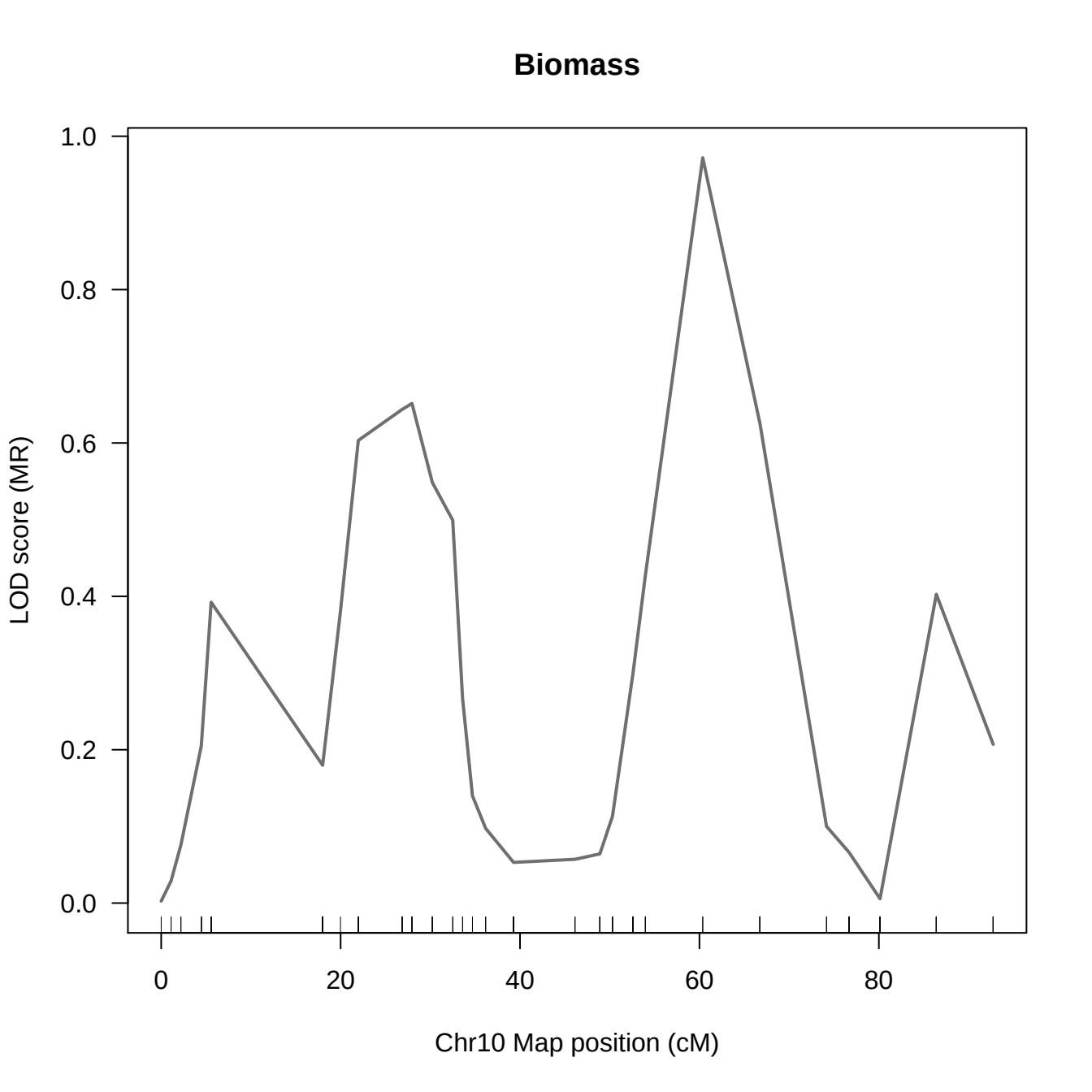

Biomass
LOD score (EM)
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
100
Chr8 Map position (cM)

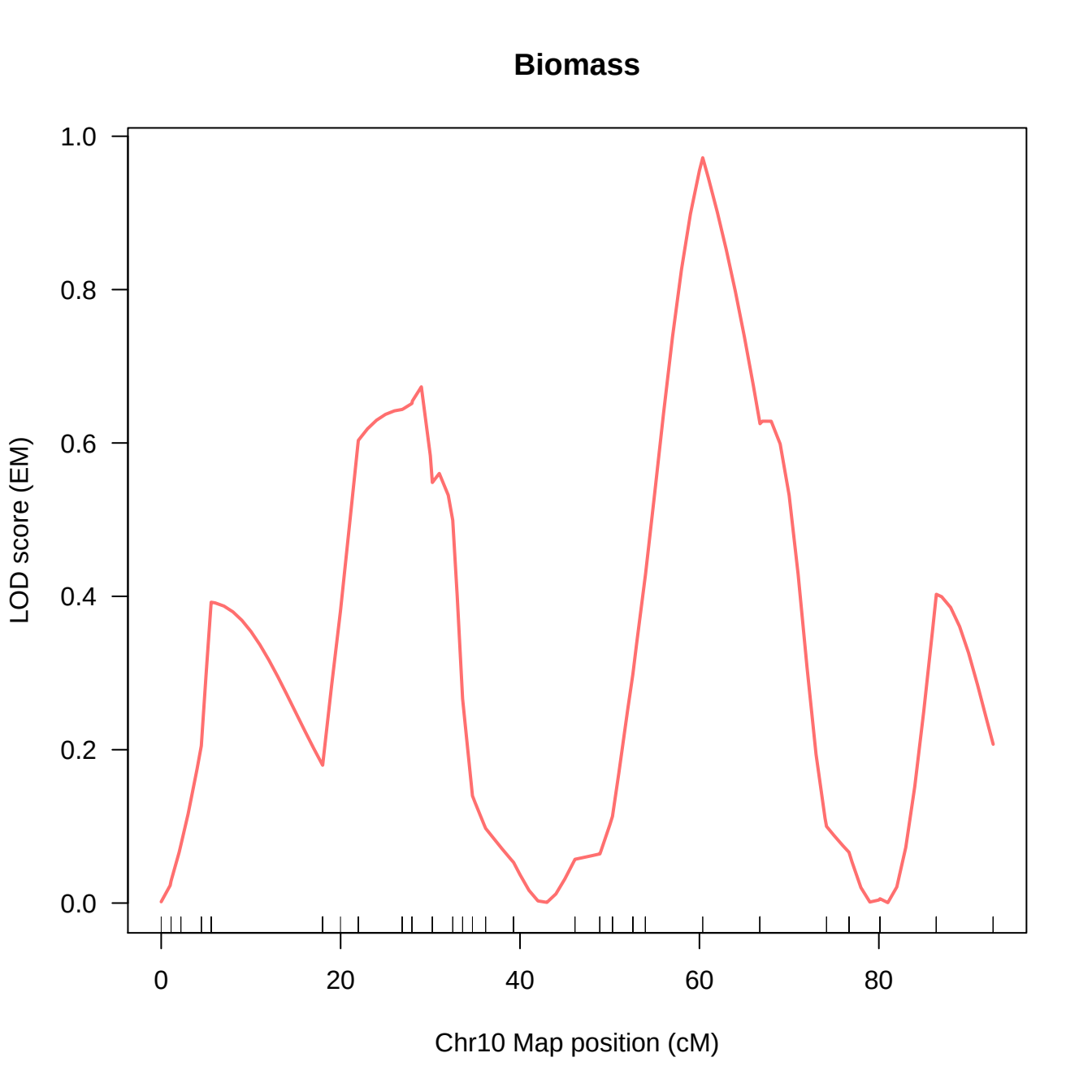

Biomass
LOD score
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
100
Chr8 Map position (cM)

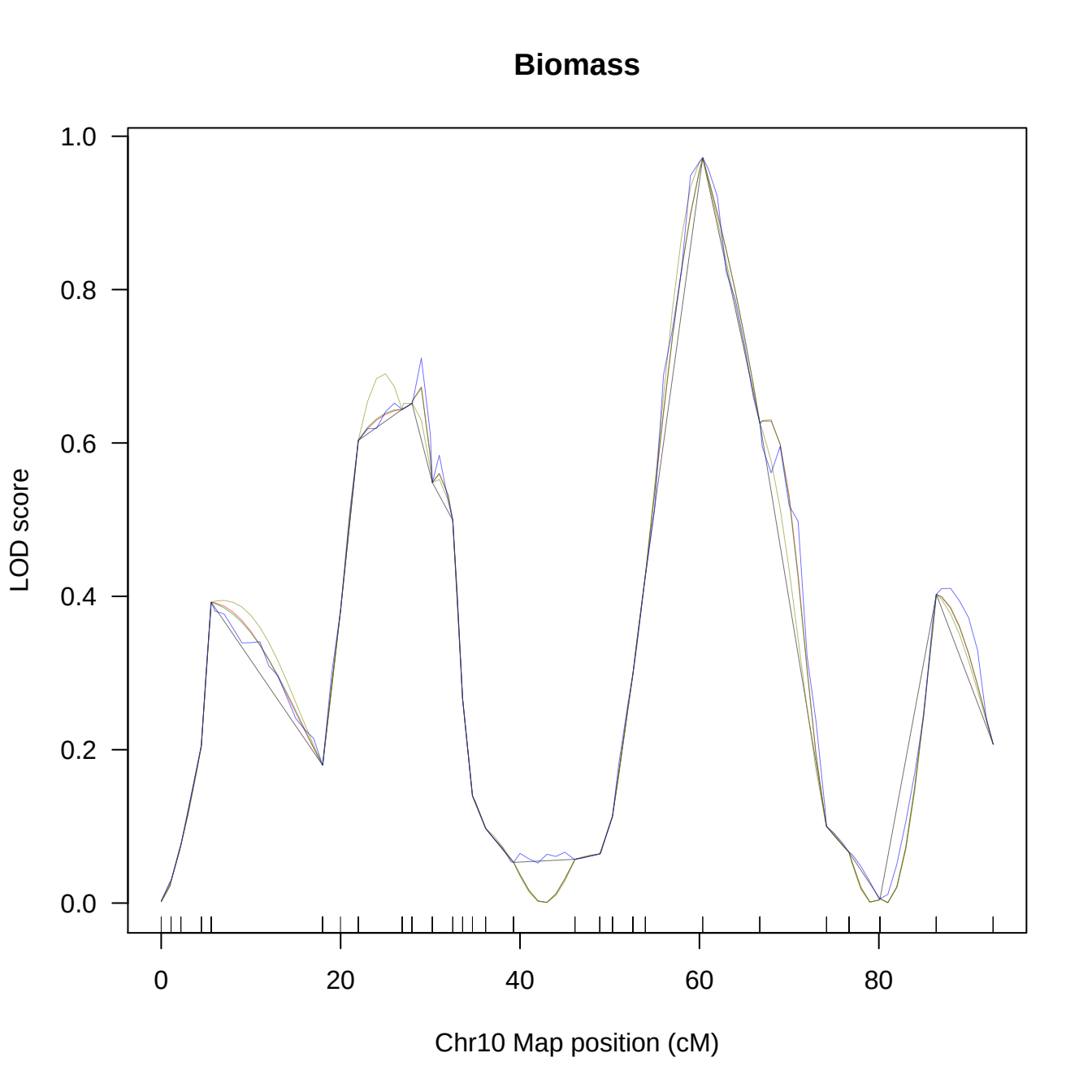

Biomass
LOD score (MR)
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
Chr9 Map position (cM)

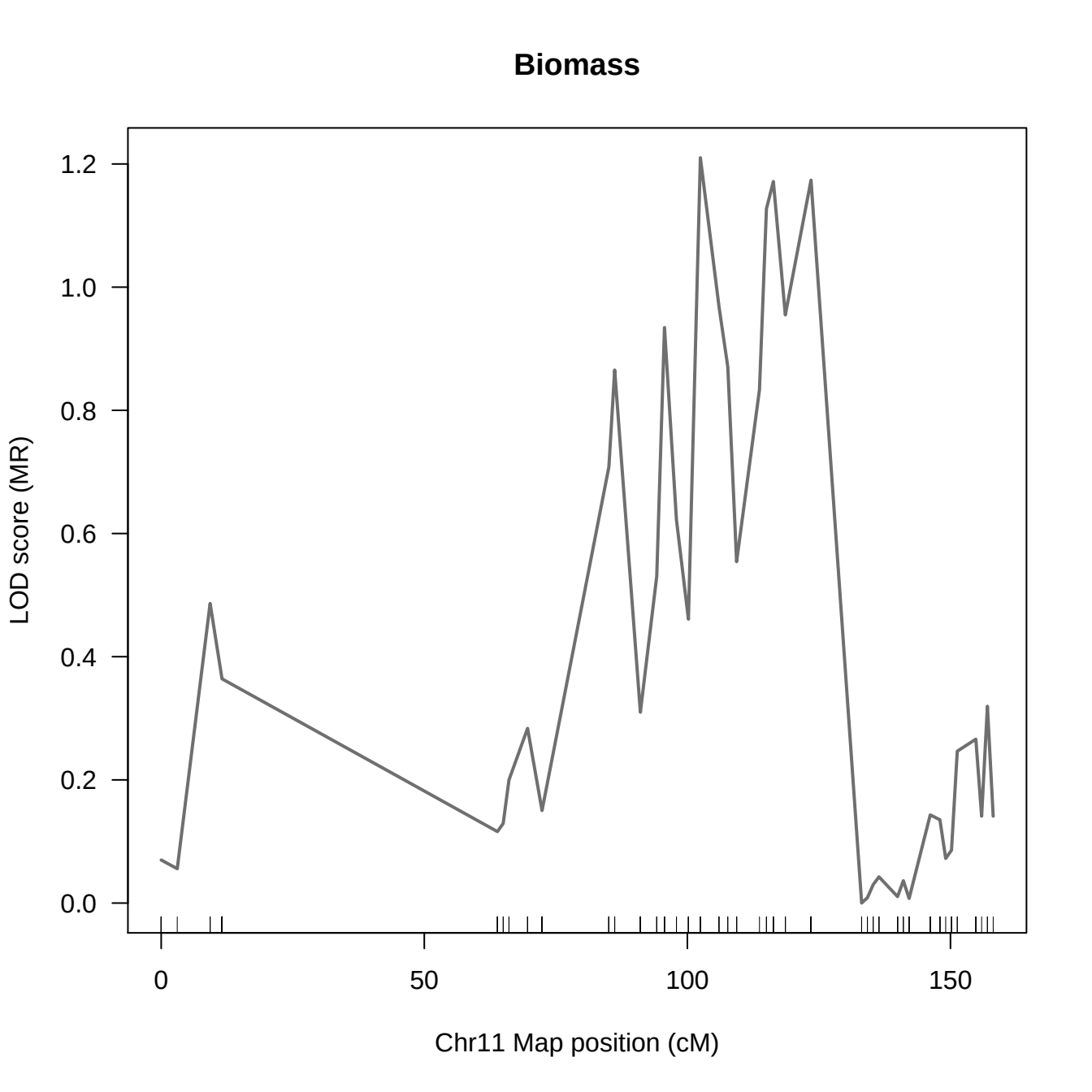

Biomass
LOD score (EM)
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
Chr9 Map position (cM)

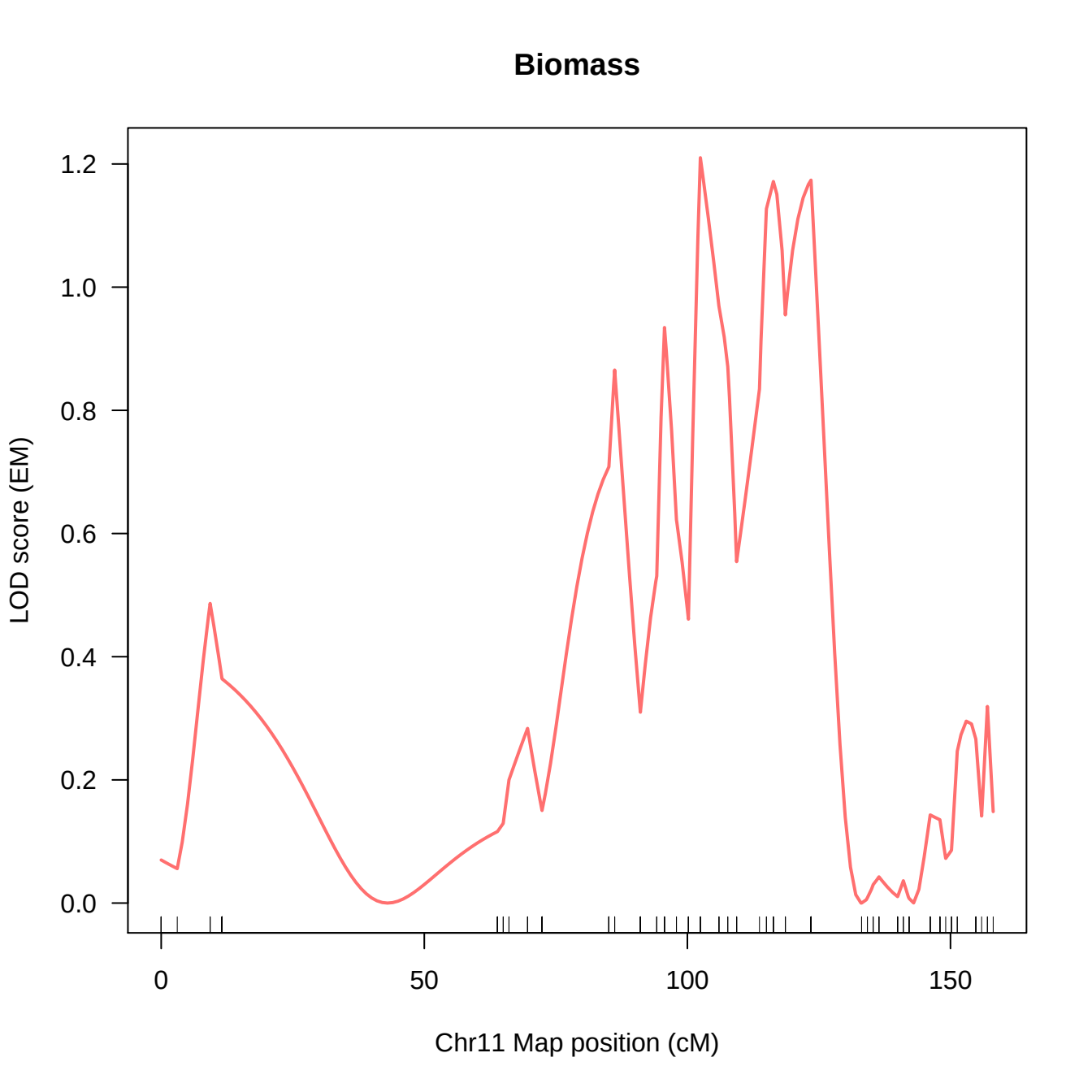

Biomass
LOD score
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
Chr9 Map position (cM)

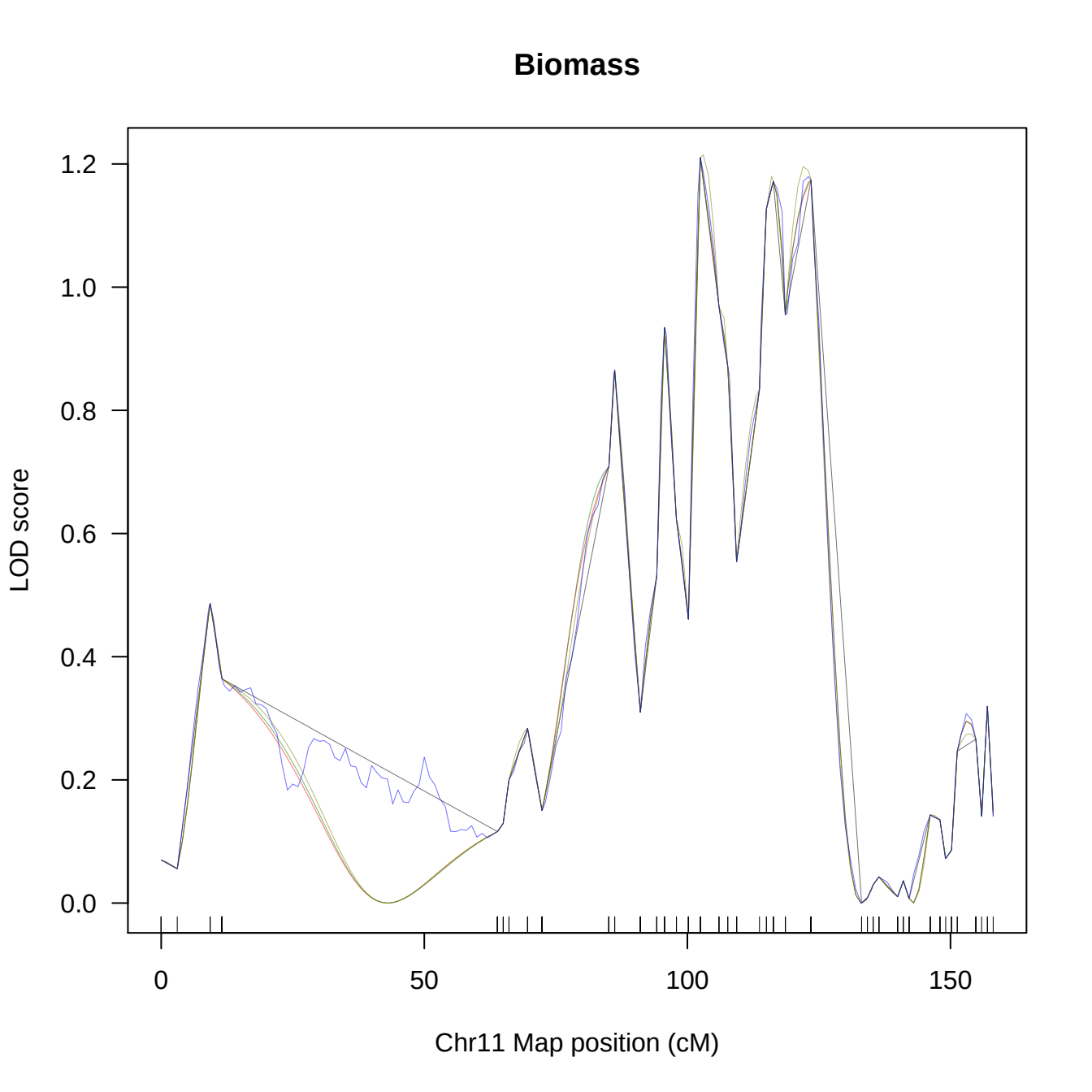

Biomass
1.0
0.8
0.6
0.4
0.2
0.0
LOD score (MR)
0
20
40
60
80
Chr10 Map position (cM)

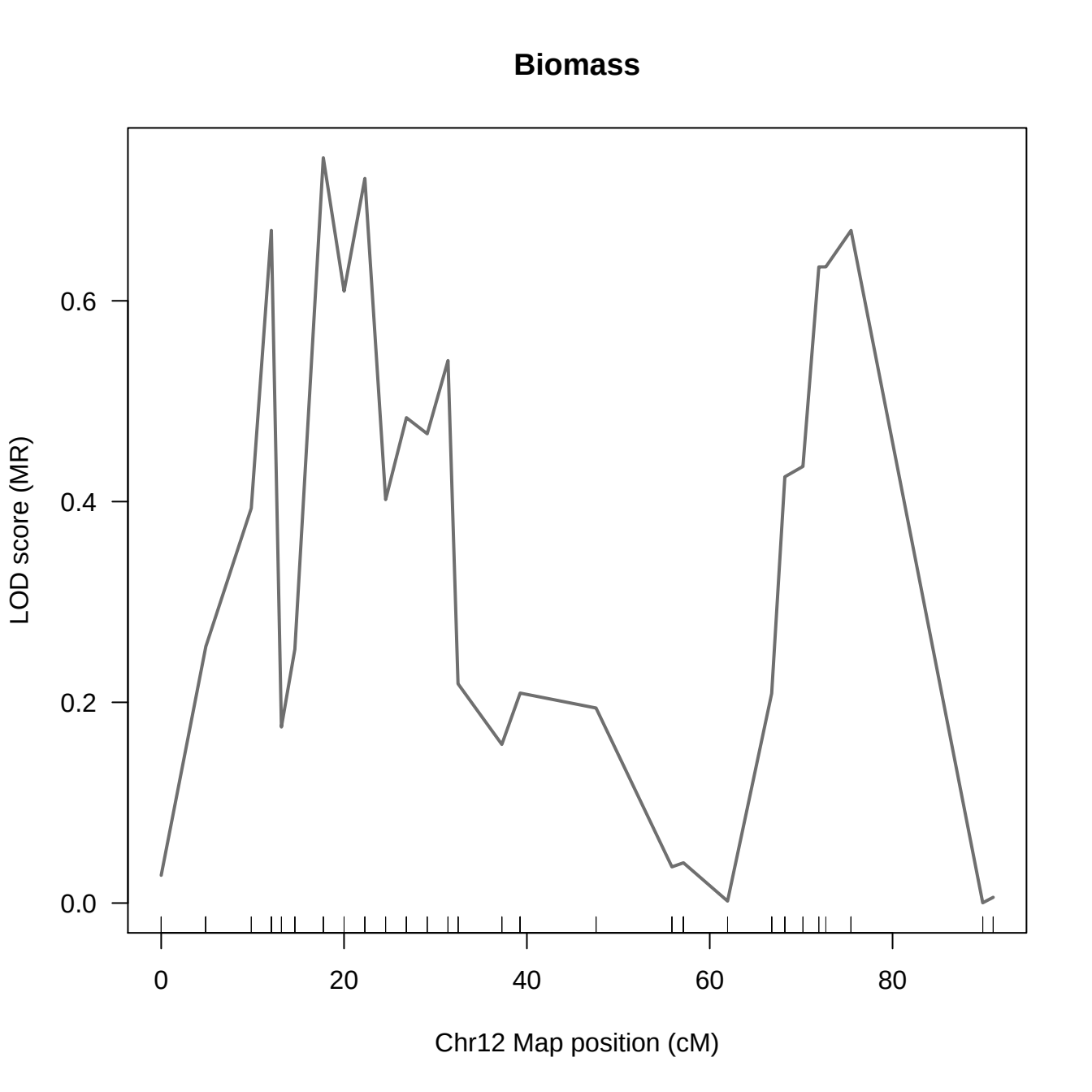

Biomass
1.0
0.8
0.6
0.4
0.2
0.0
LOD score (EM)
0
20
40
60
80
Chr10 Map position (cM)

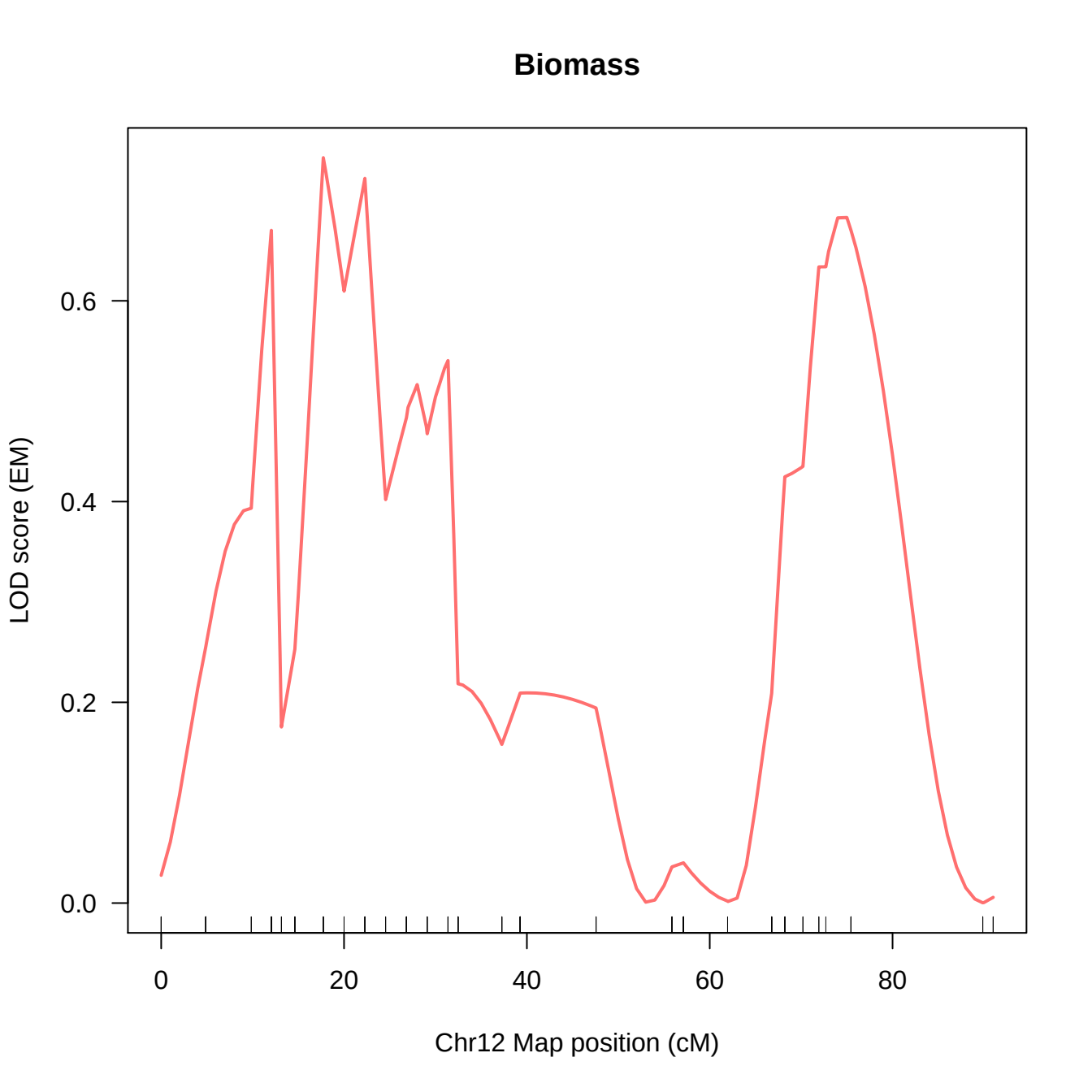

Biomass
1.0
0.8
0.6
0.4
0.2
0.0
LOD score
0
20
40
60
80
Chr10 Map position (cM)

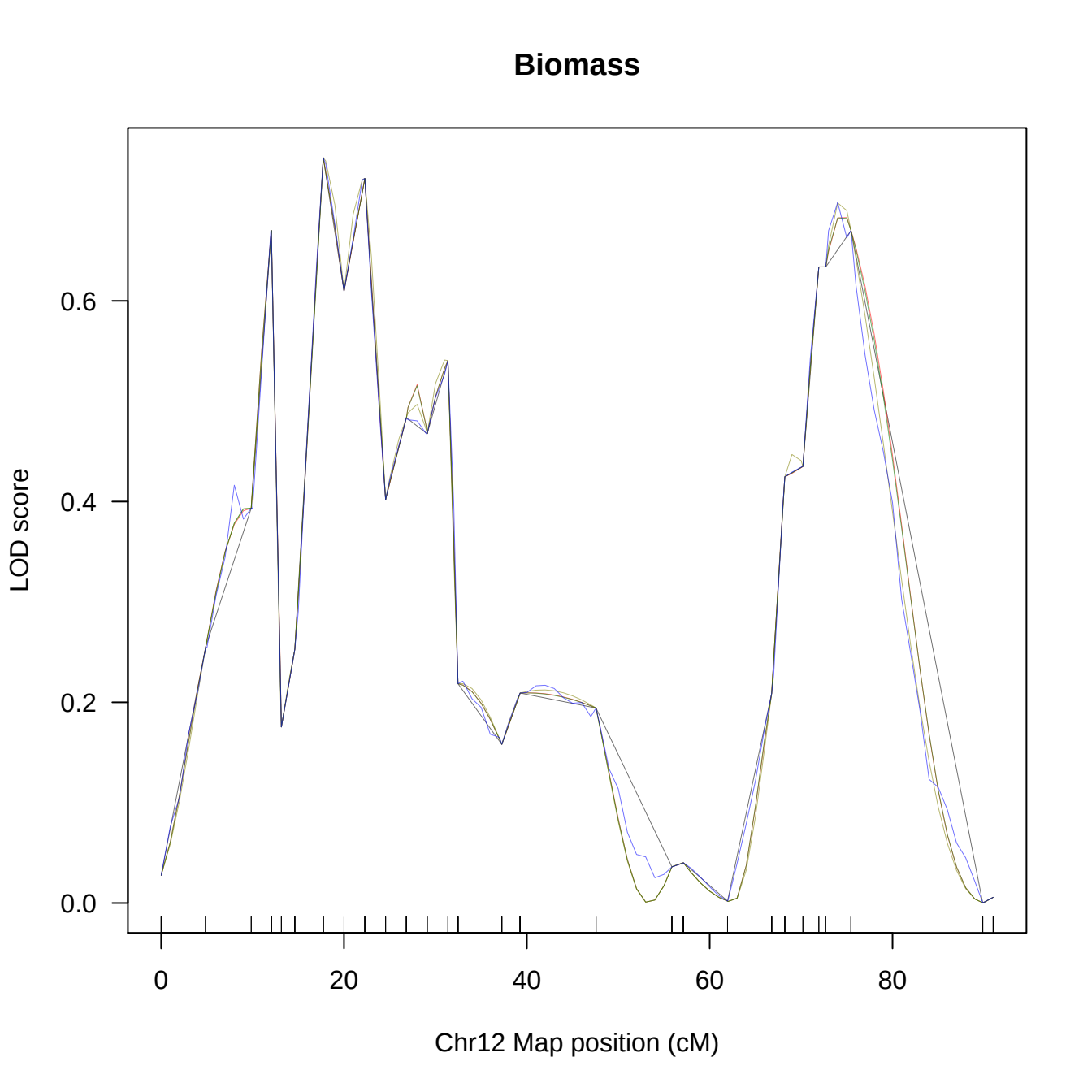

Biomass
LOD score (MR)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
Chr11 Map position (cM)

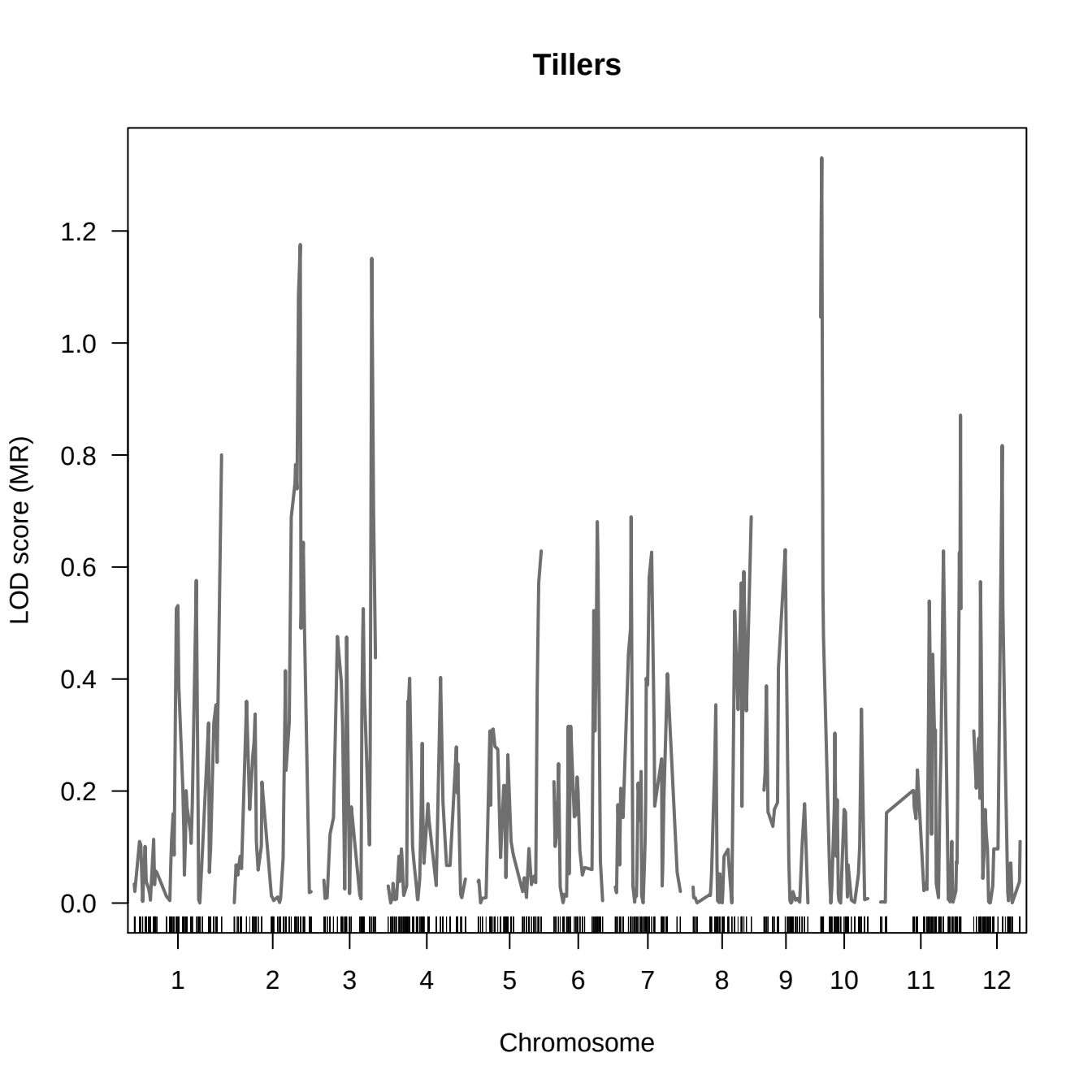

Biomass
LOD score (EM)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
Chr11 Map position (cM)

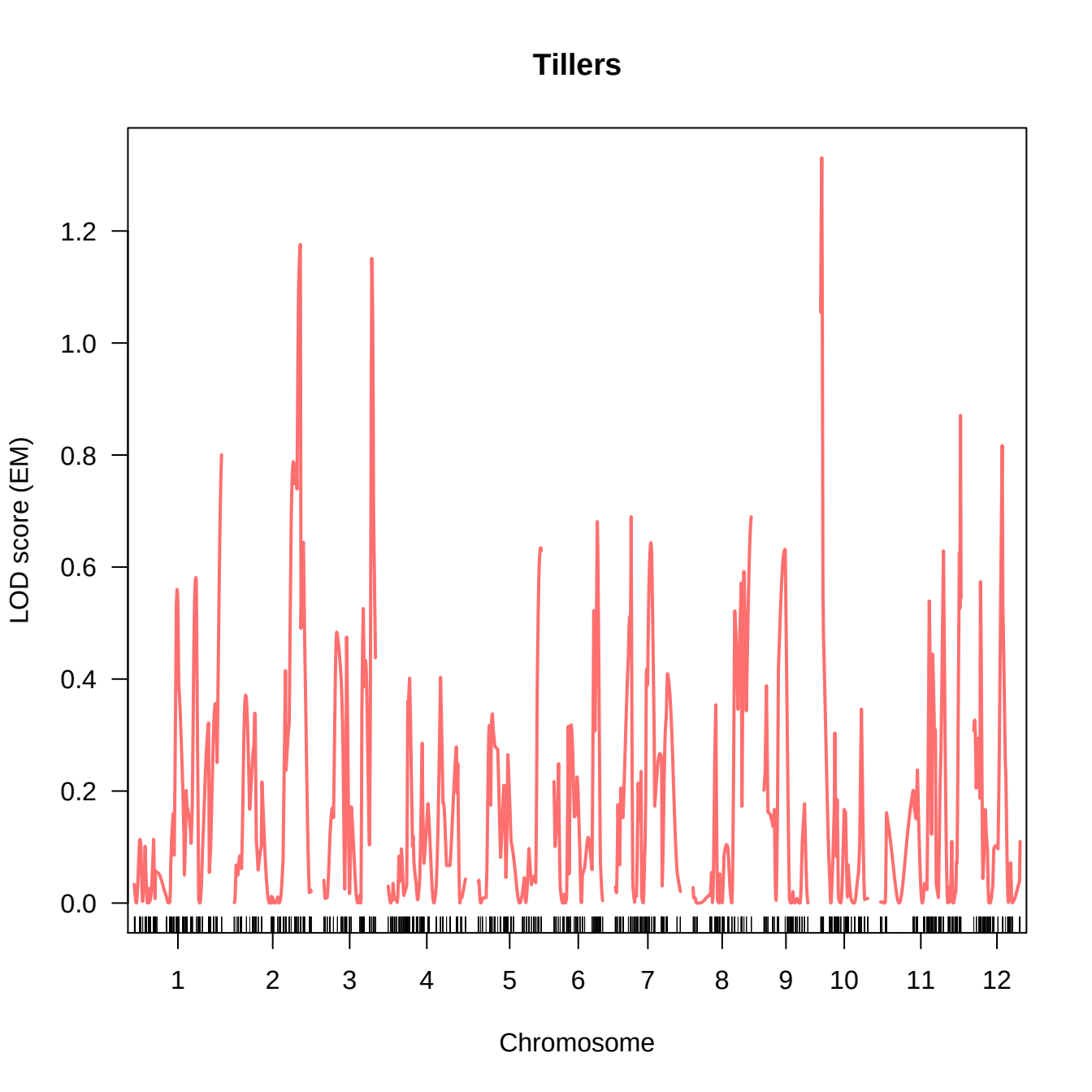

Biomass
LOD score
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
Chr11 Map position (cM)

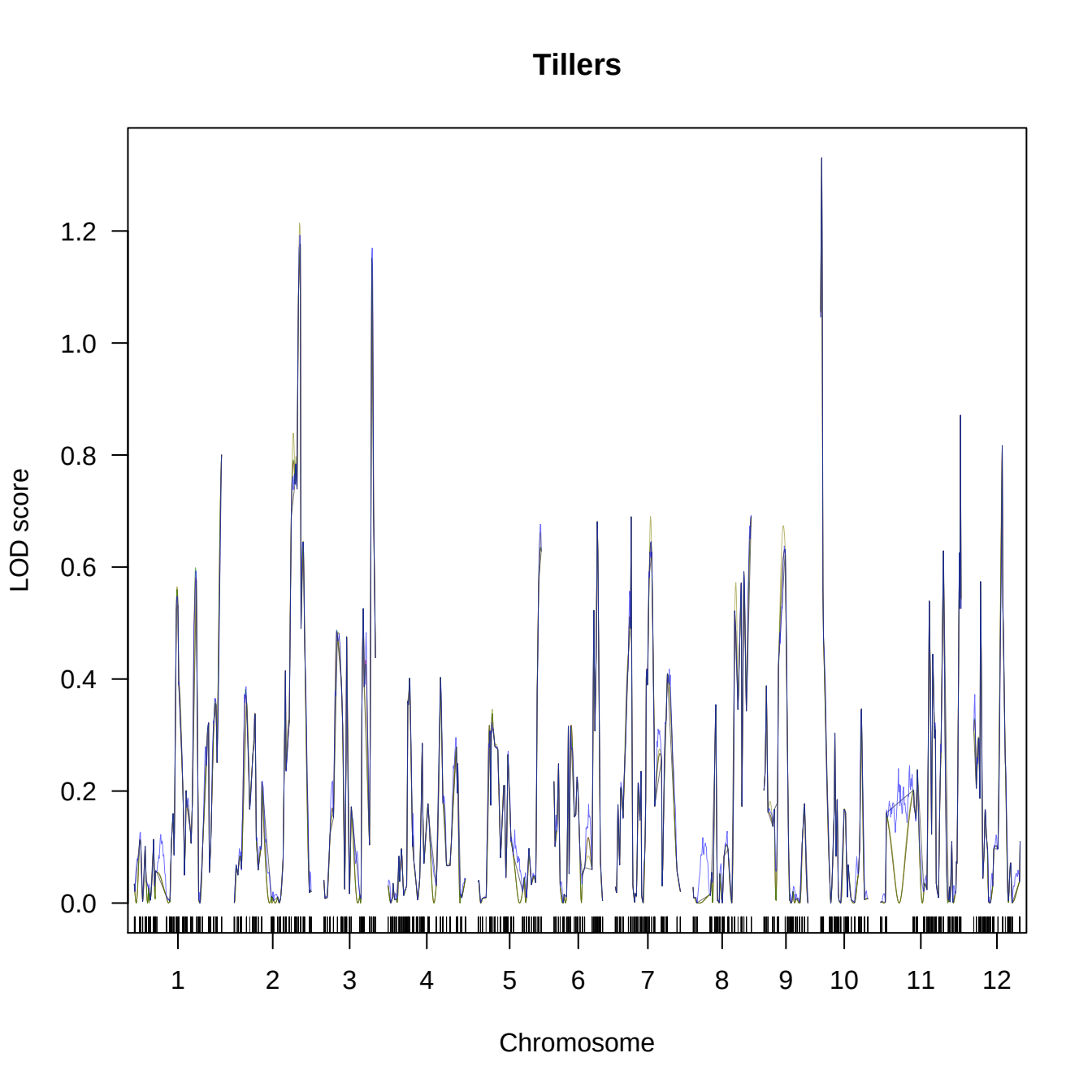

Biomass
LOD score (MR)
0.0
0.2
0.4
0.6
0
20
40
60
80
Chr12 Map position (cM)

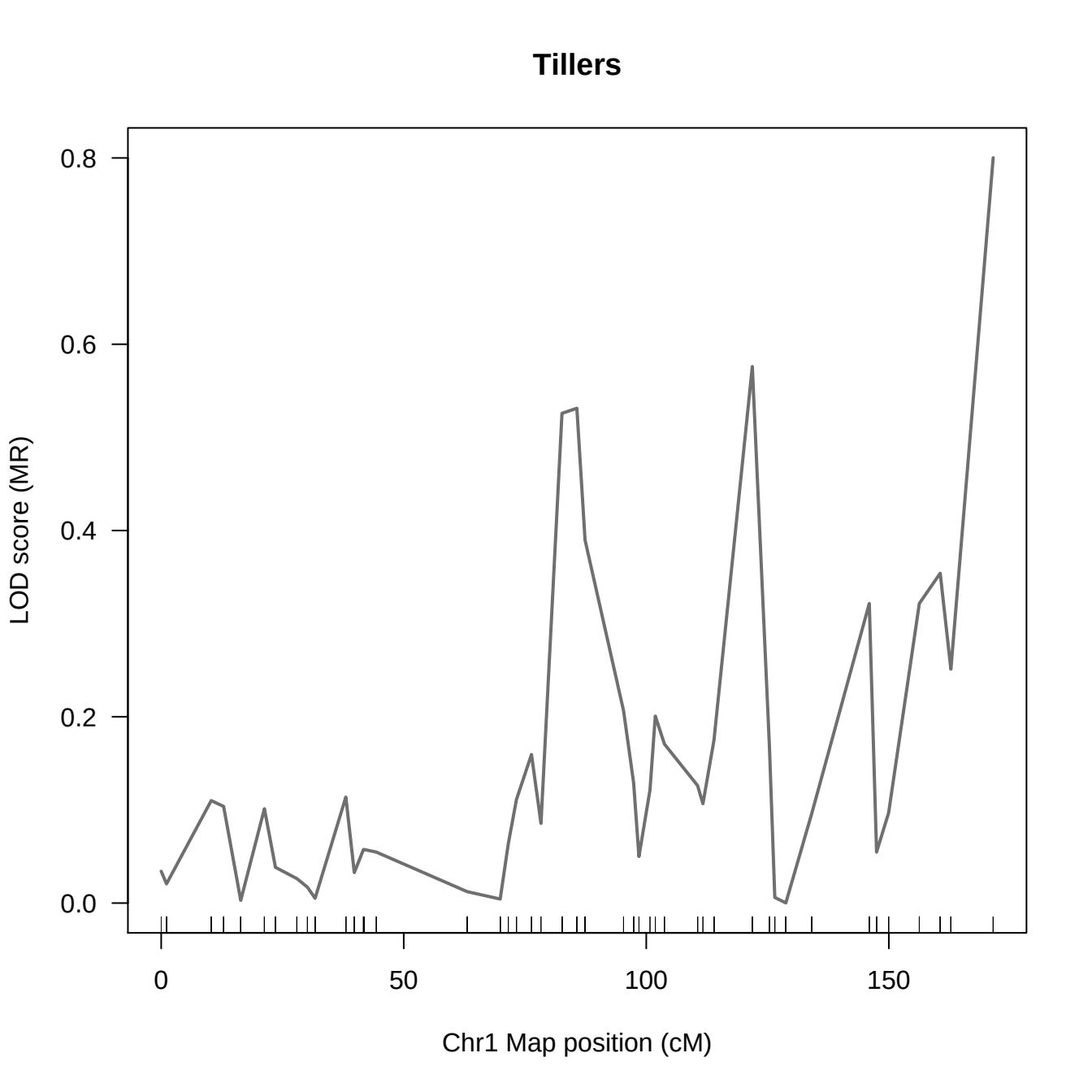

Biomass
LOD score (EM)
0.0
0.2
0.4
0.6
0
20
40
60
80
Chr12 Map position (cM)

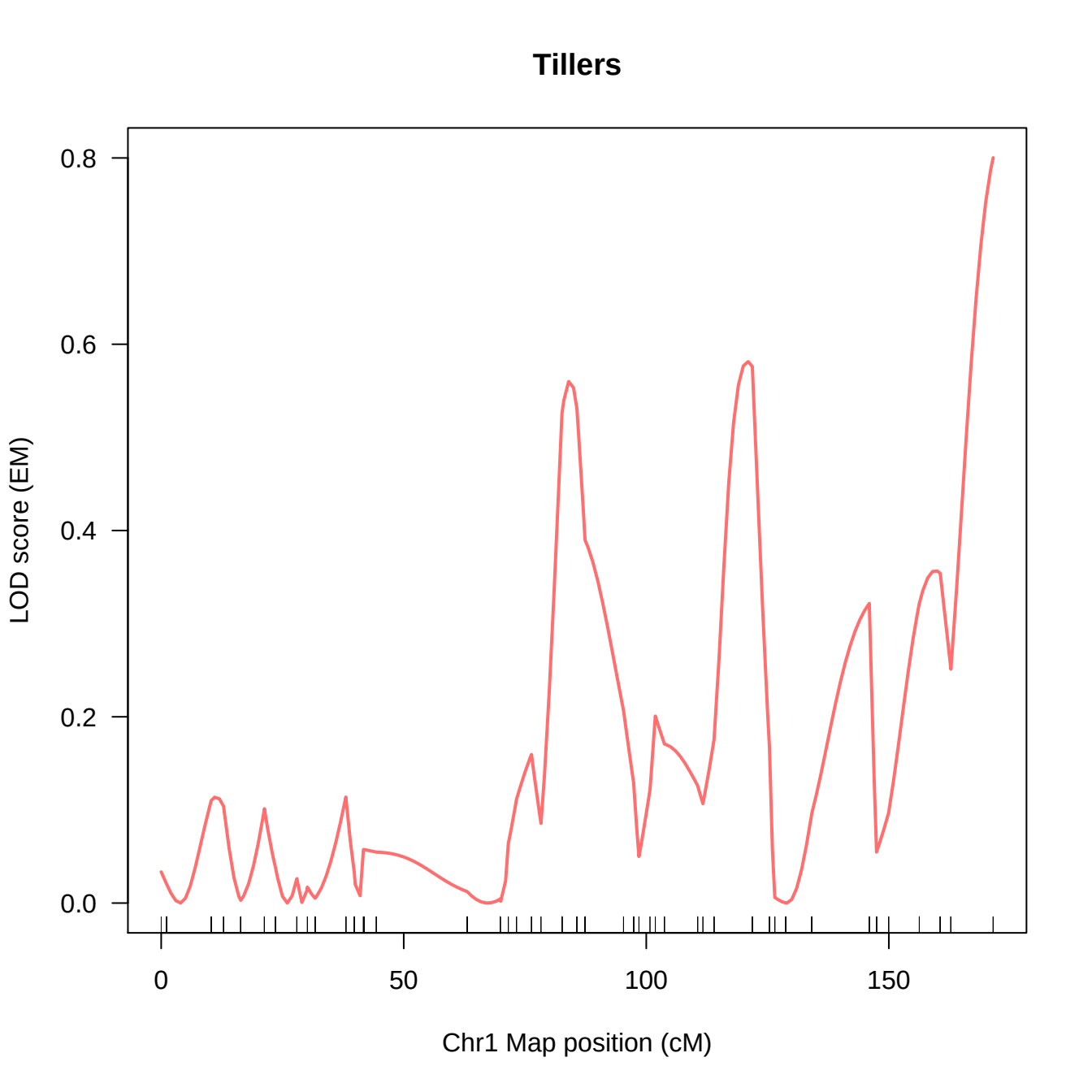

Biomass
LOD score
0.0
0.2
0.4
0.6
0
20
40
60
80
Chr12 Map position (cM)

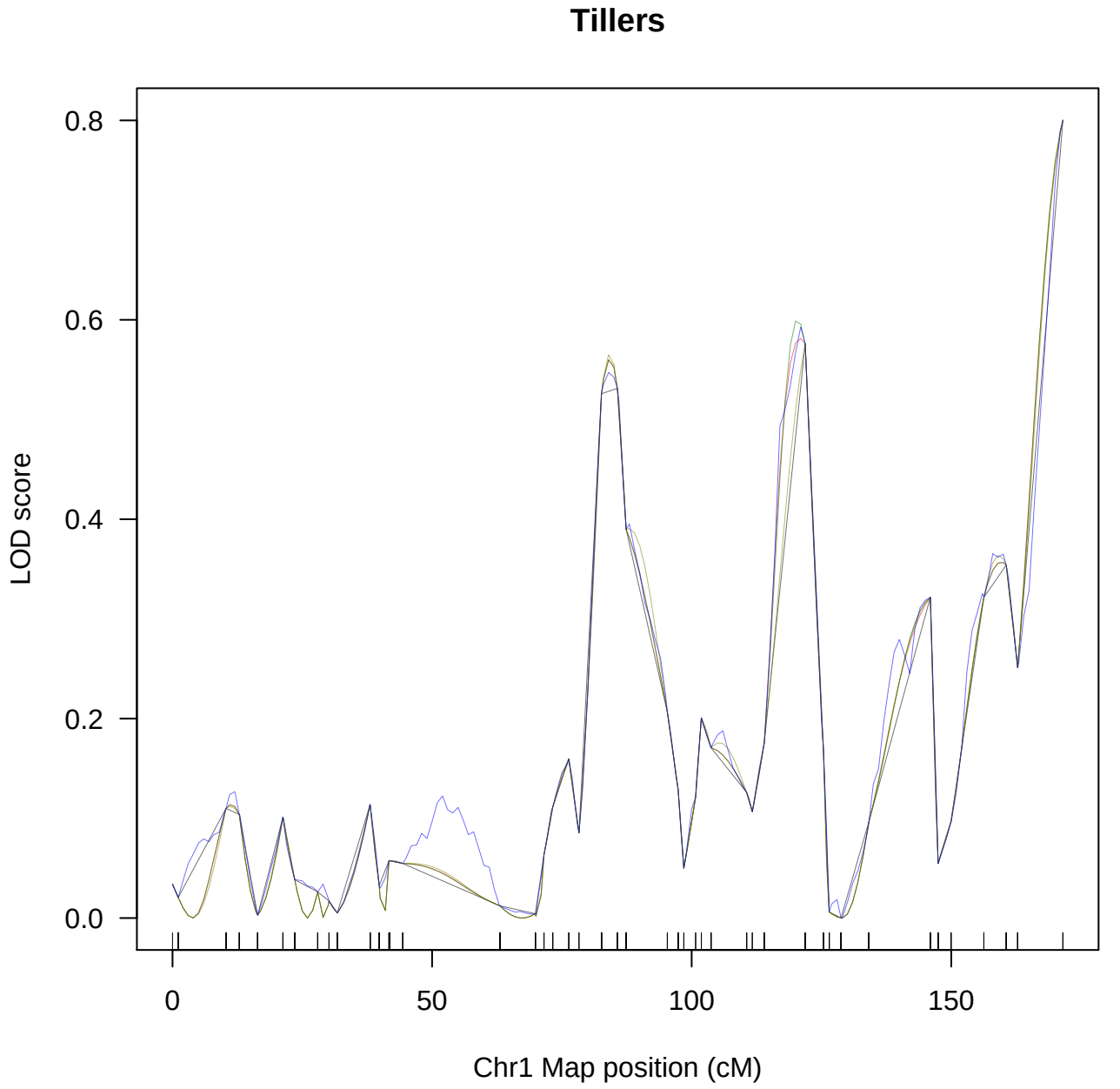

Tillers
LOD score (MR)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1
2
3
4
5
6
7
8
9
10
11
12
Chromosome

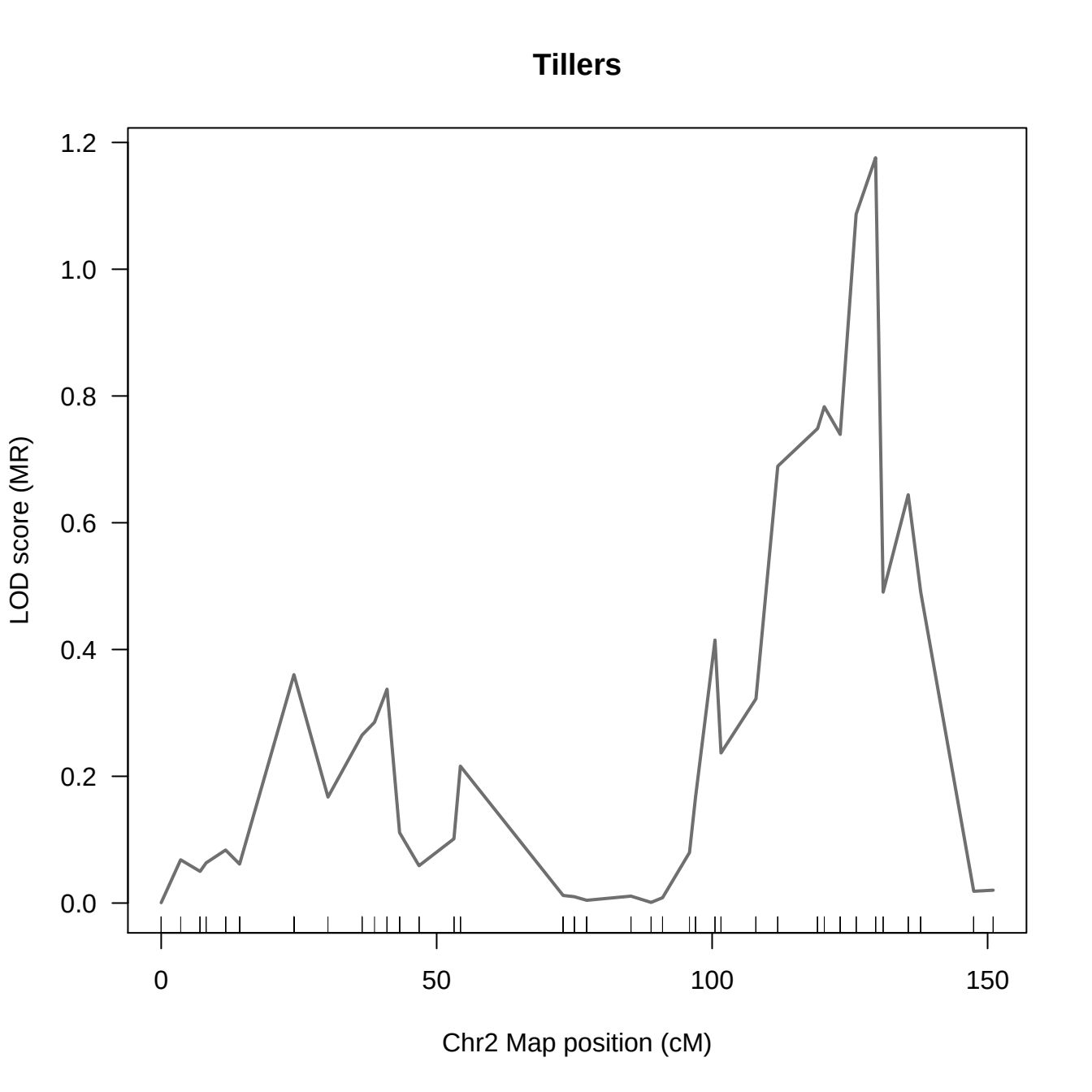

Tillers
LOD score (EM)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1
2
3
4
5
6
7
8
9
10
11
12
Chromosome

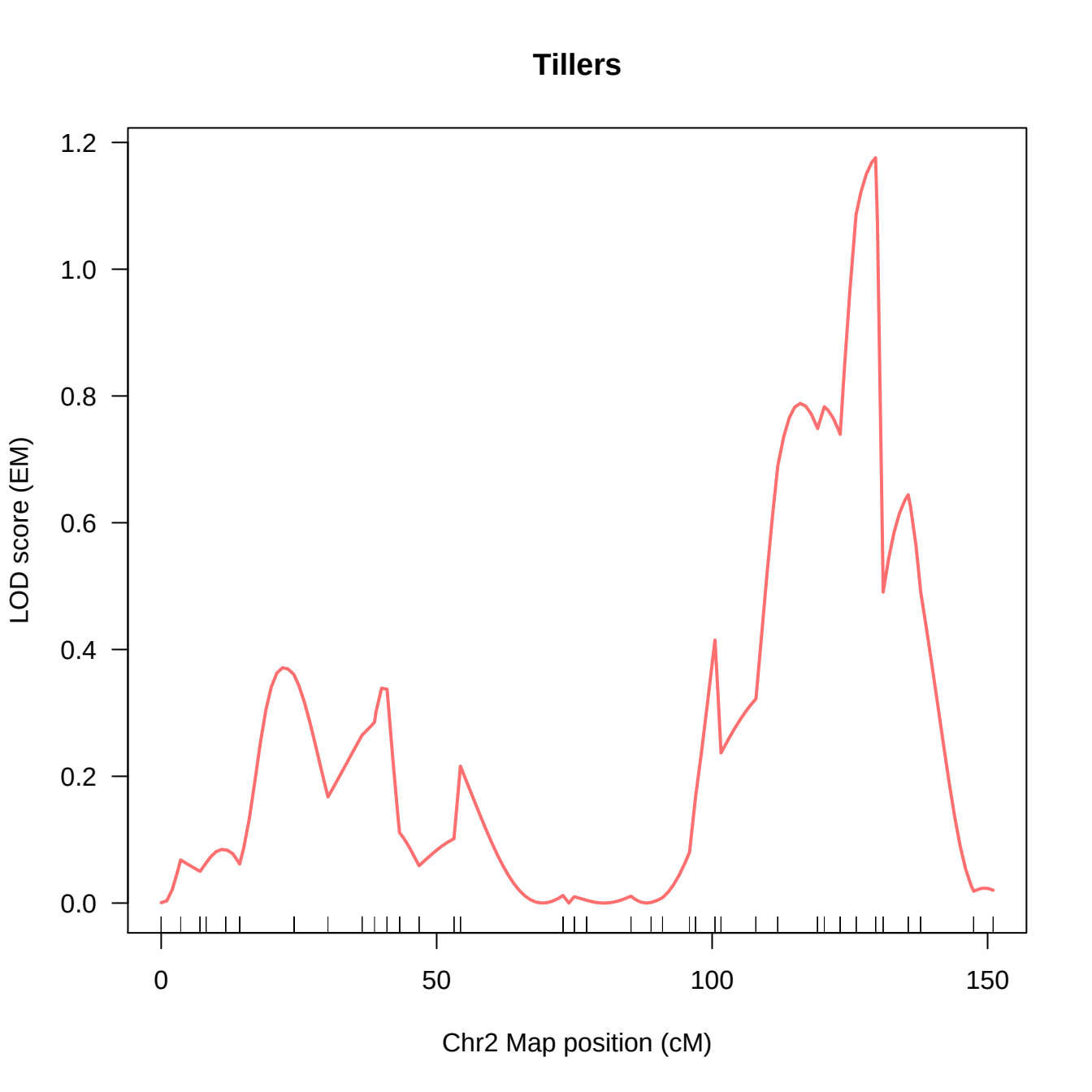

Tillers
LOD score
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1
2
3
4
5
6
7
8
9
10
11
12
Chromosome

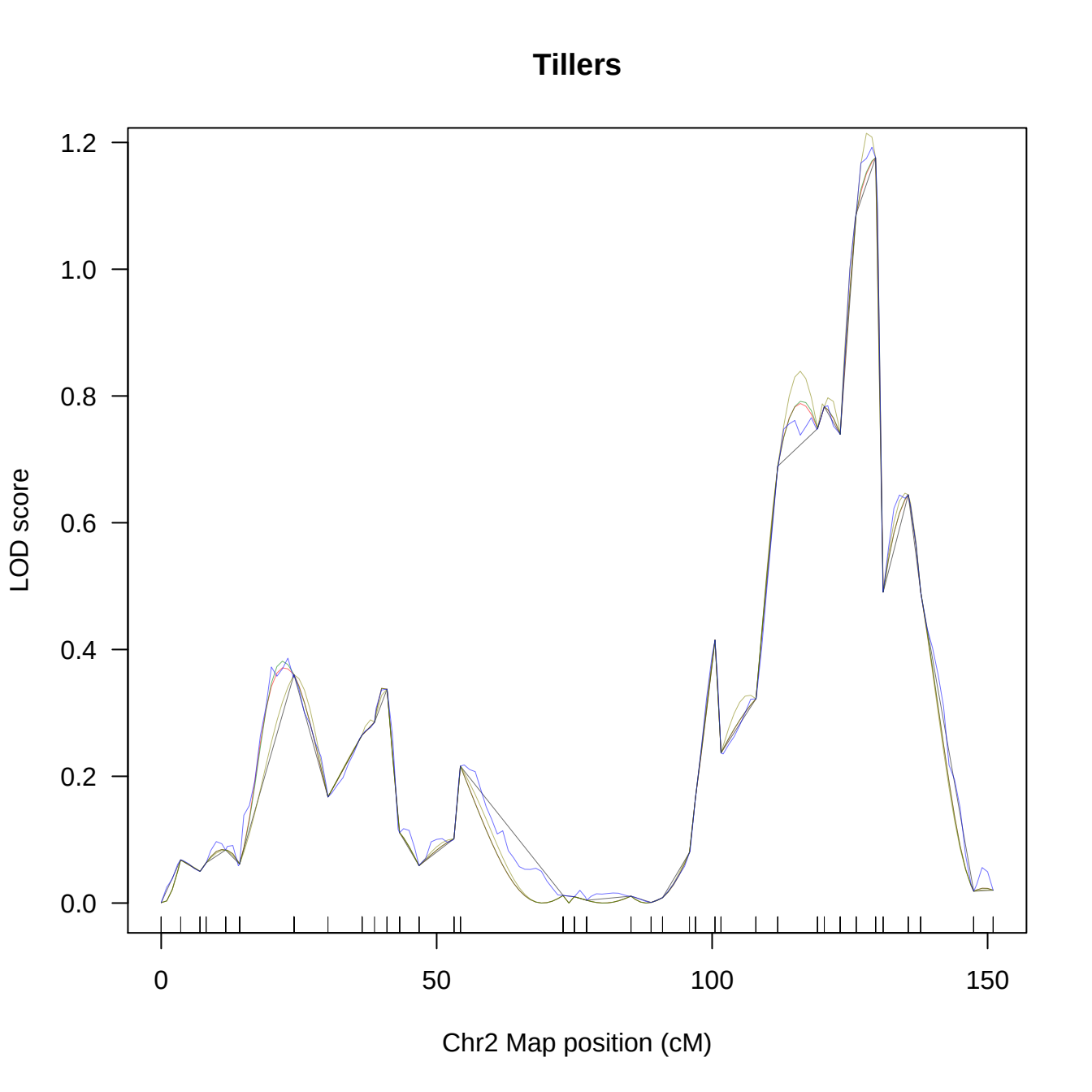

Tillers
LOD score (MR)
0.0
0.2
0.4
0.6
0.8
0
50
100
150
Chr1 Map position (cM)

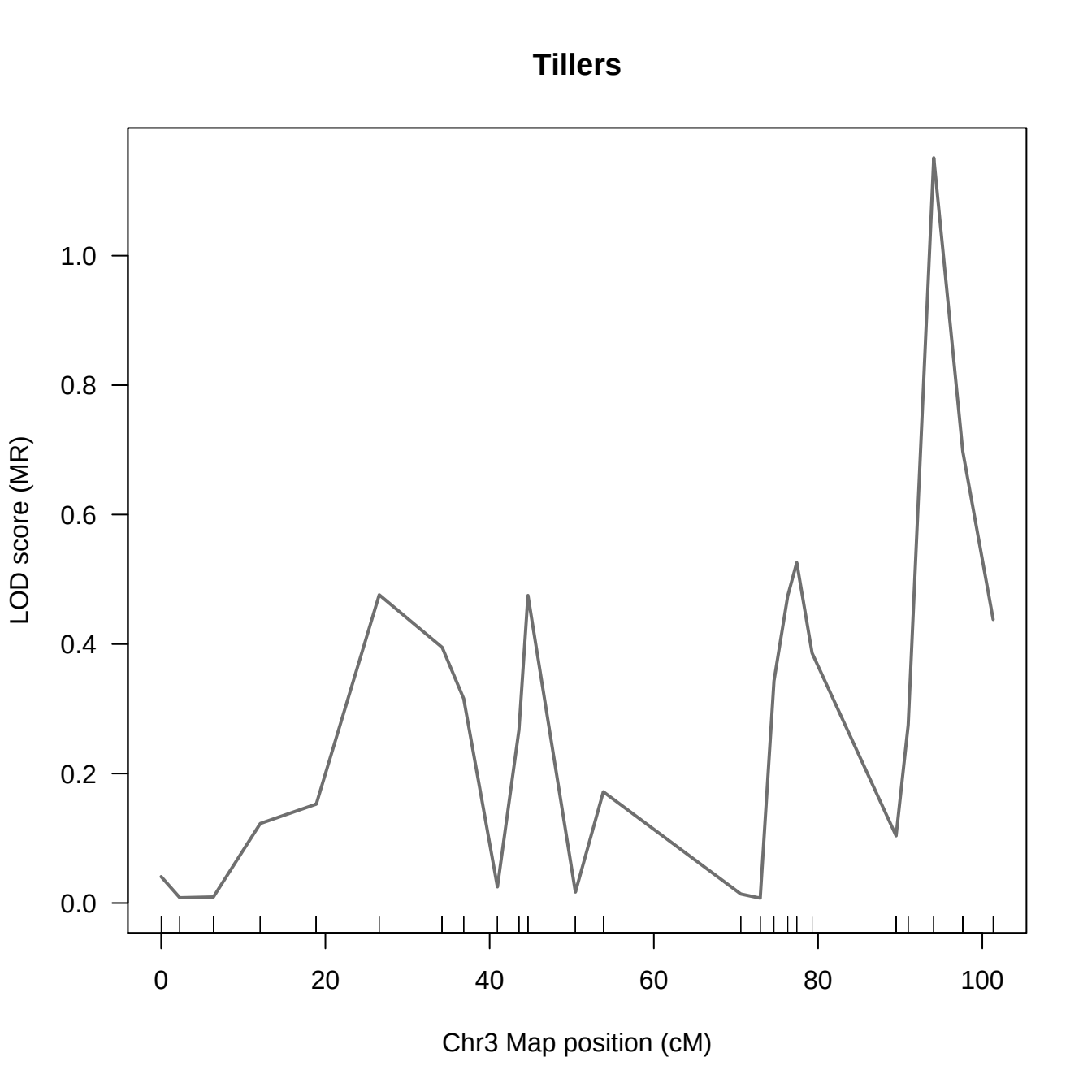

Tillers
LOD score (EM)
0.0
0.2
0.4
0.6
0.8
0
50
100
150
Chr1 Map position (cM)

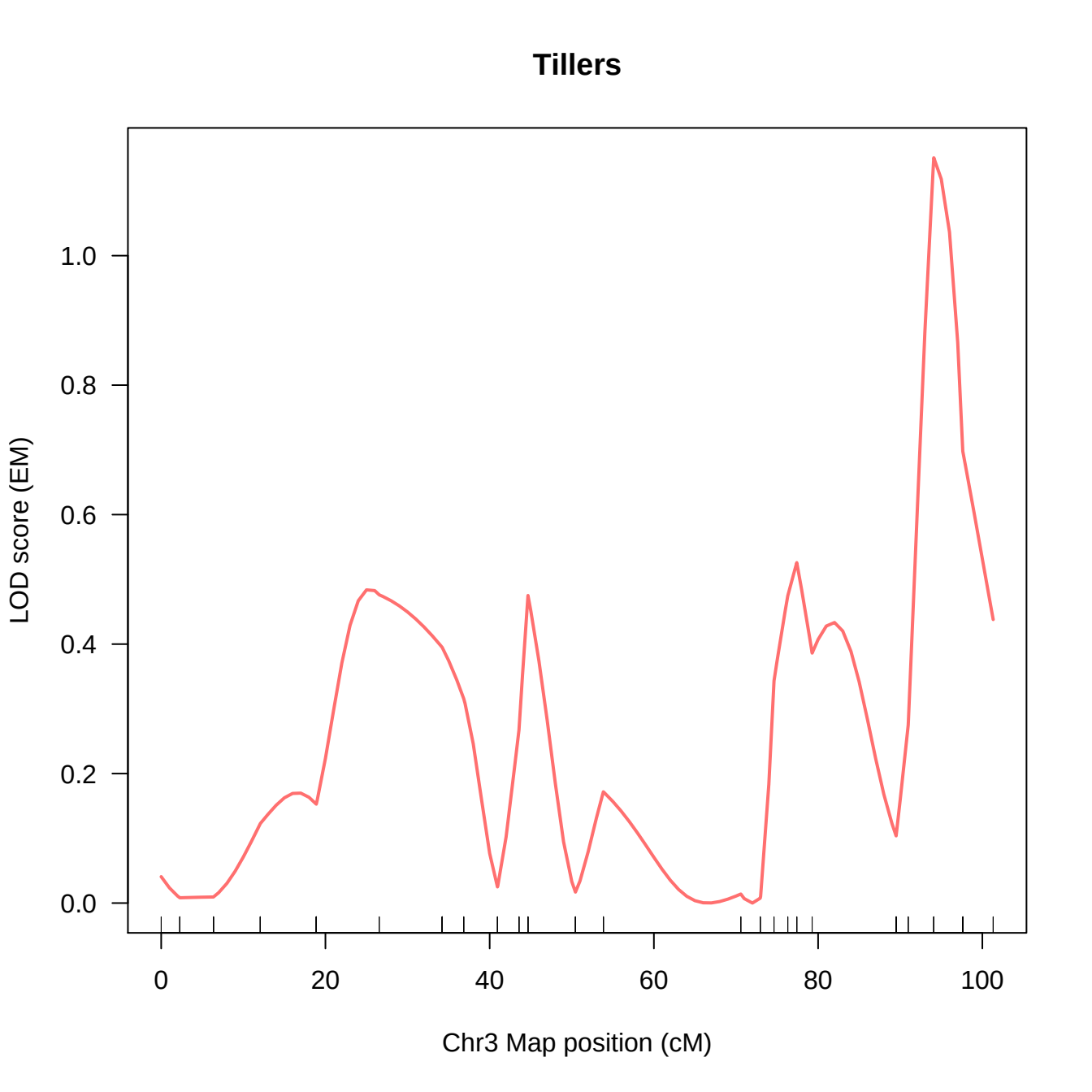

Tillers
LOD score
0.0
0.2
0.4
0.6
0.8
0
50
100
150
Chr1 Map position (cM)

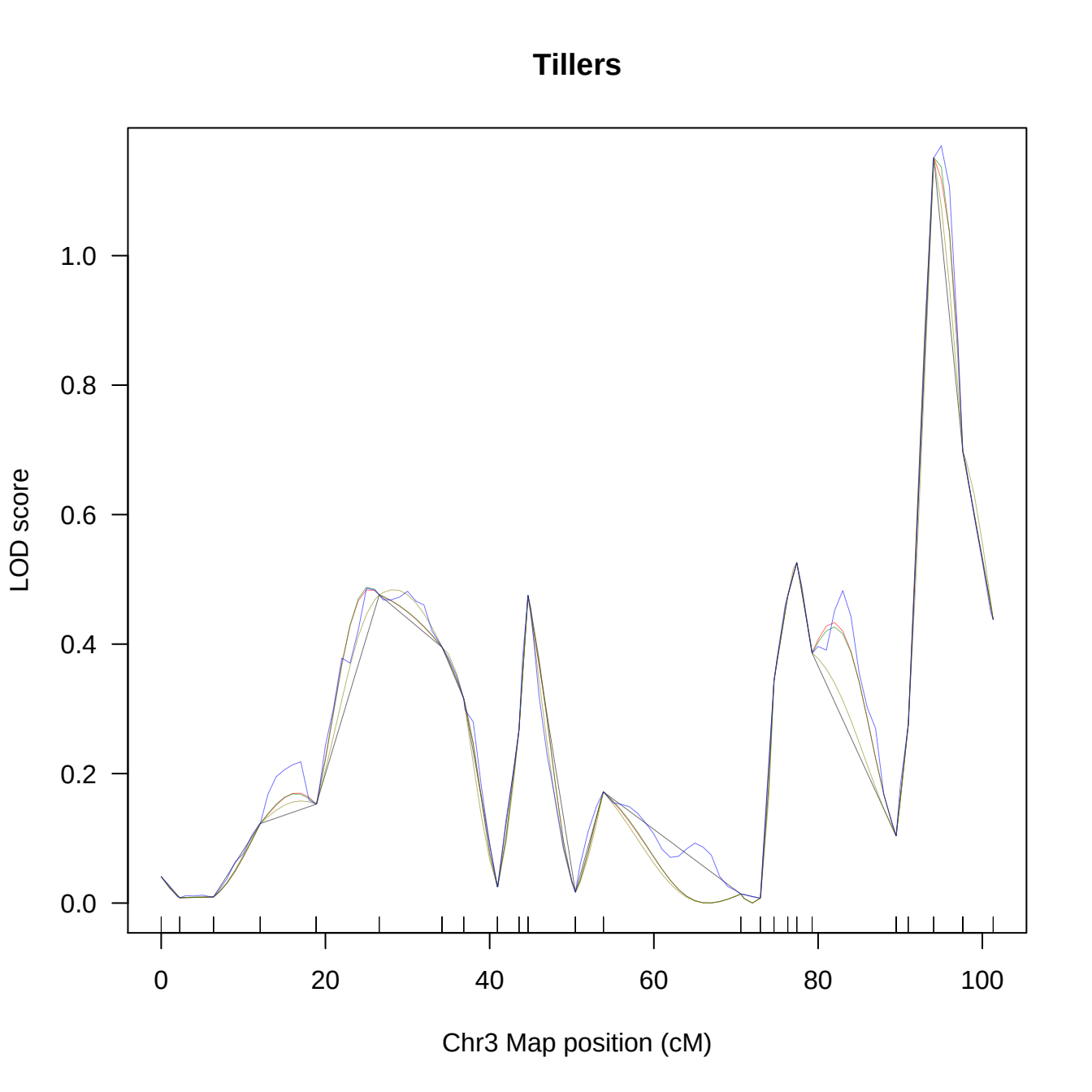

Tillers
LOD score (MR)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
Chr2 Map position (cM)

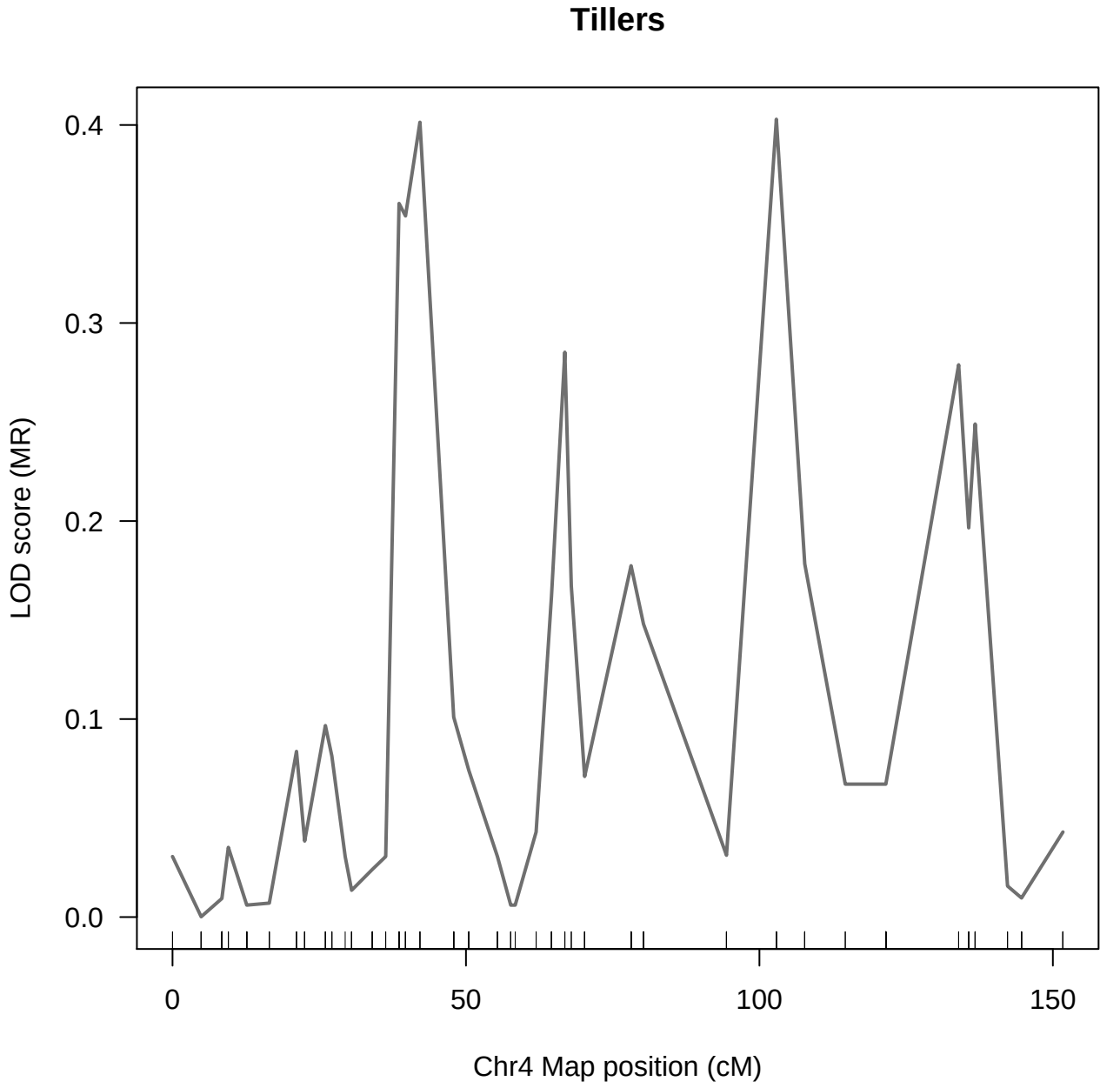

Tillers
LOD score (EM)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
Chr2 Map position (cM)

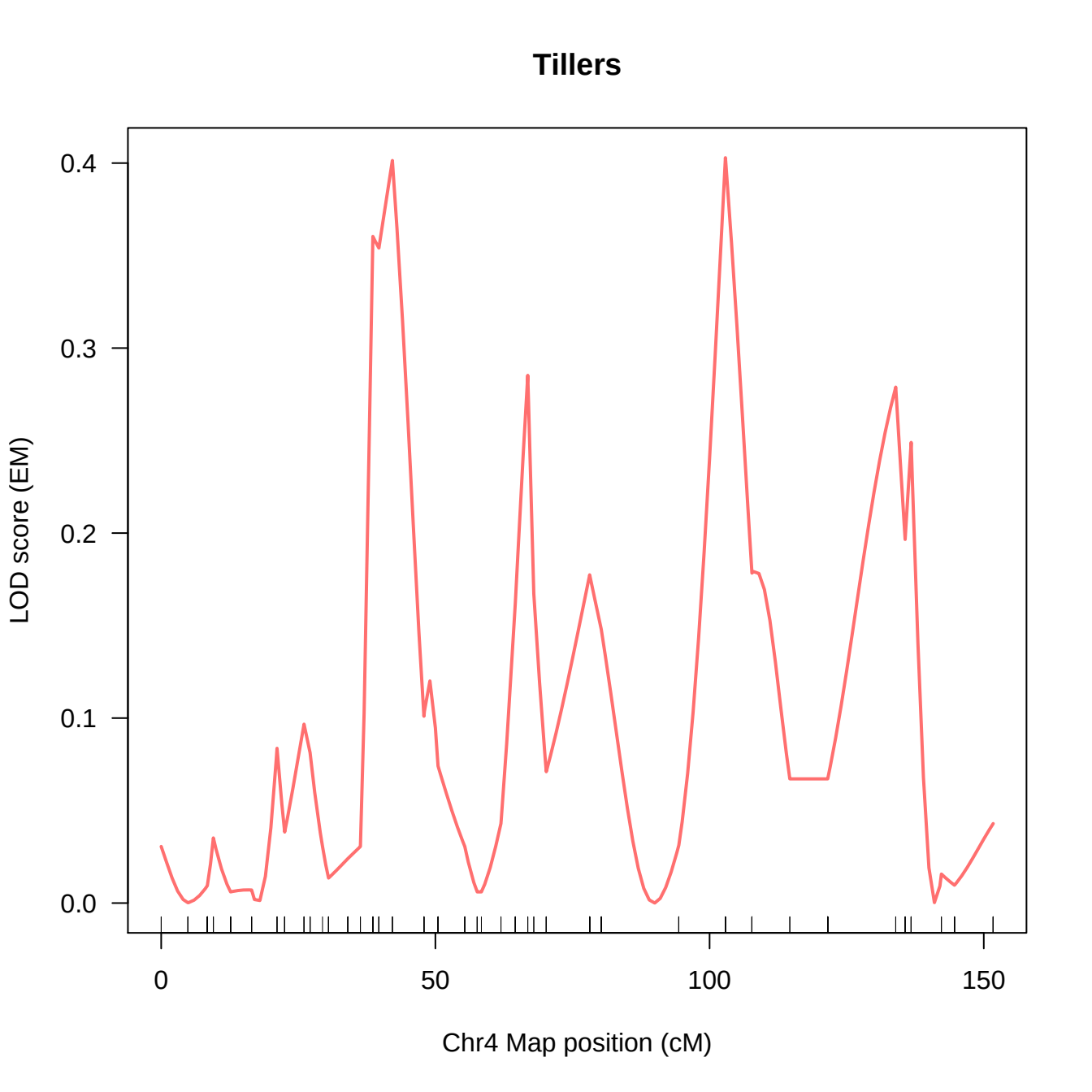

Tillers
LOD score
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
Chr2 Map position (cM)

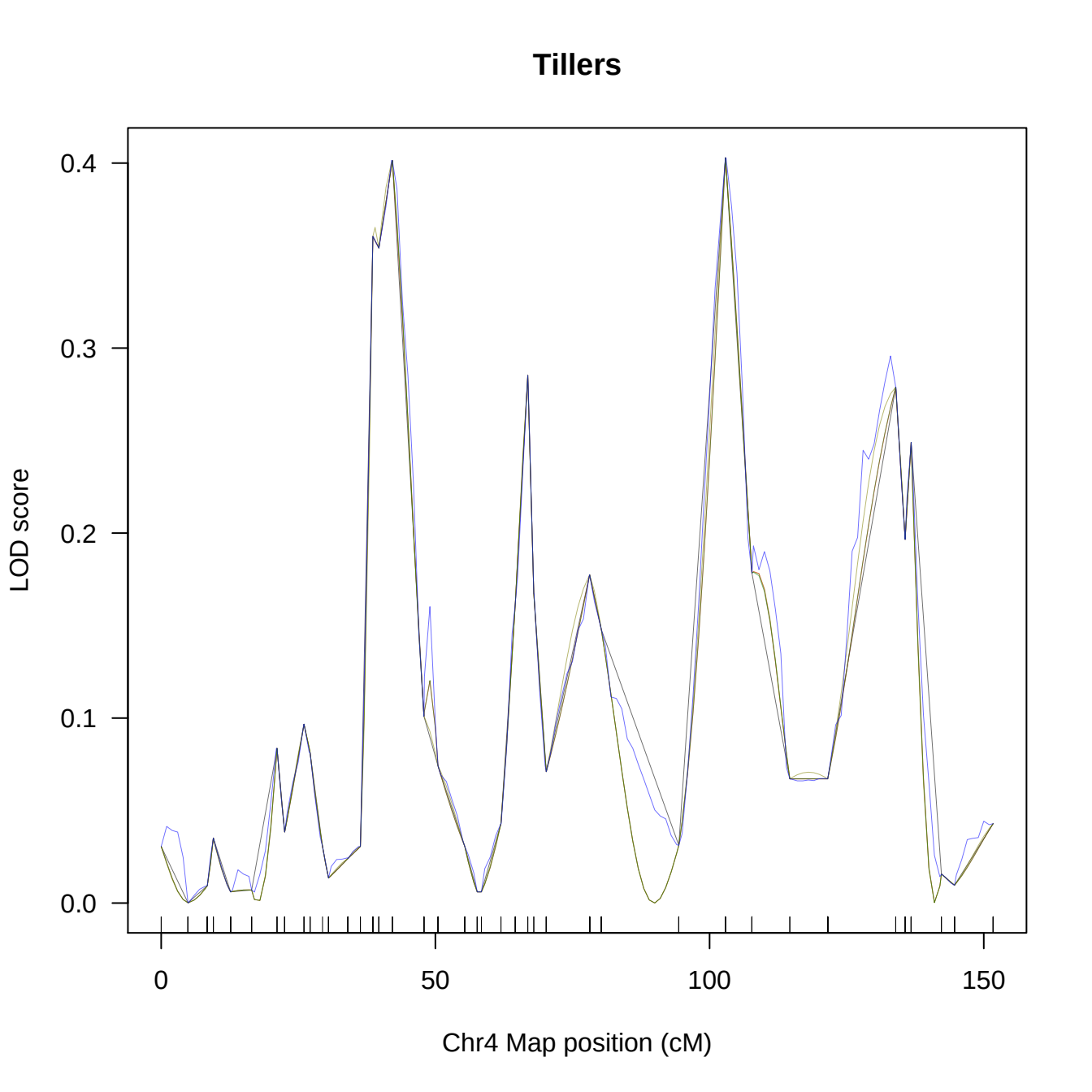

Tillers
LOD score (MR)
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
100
Chr3 Map position (cM)

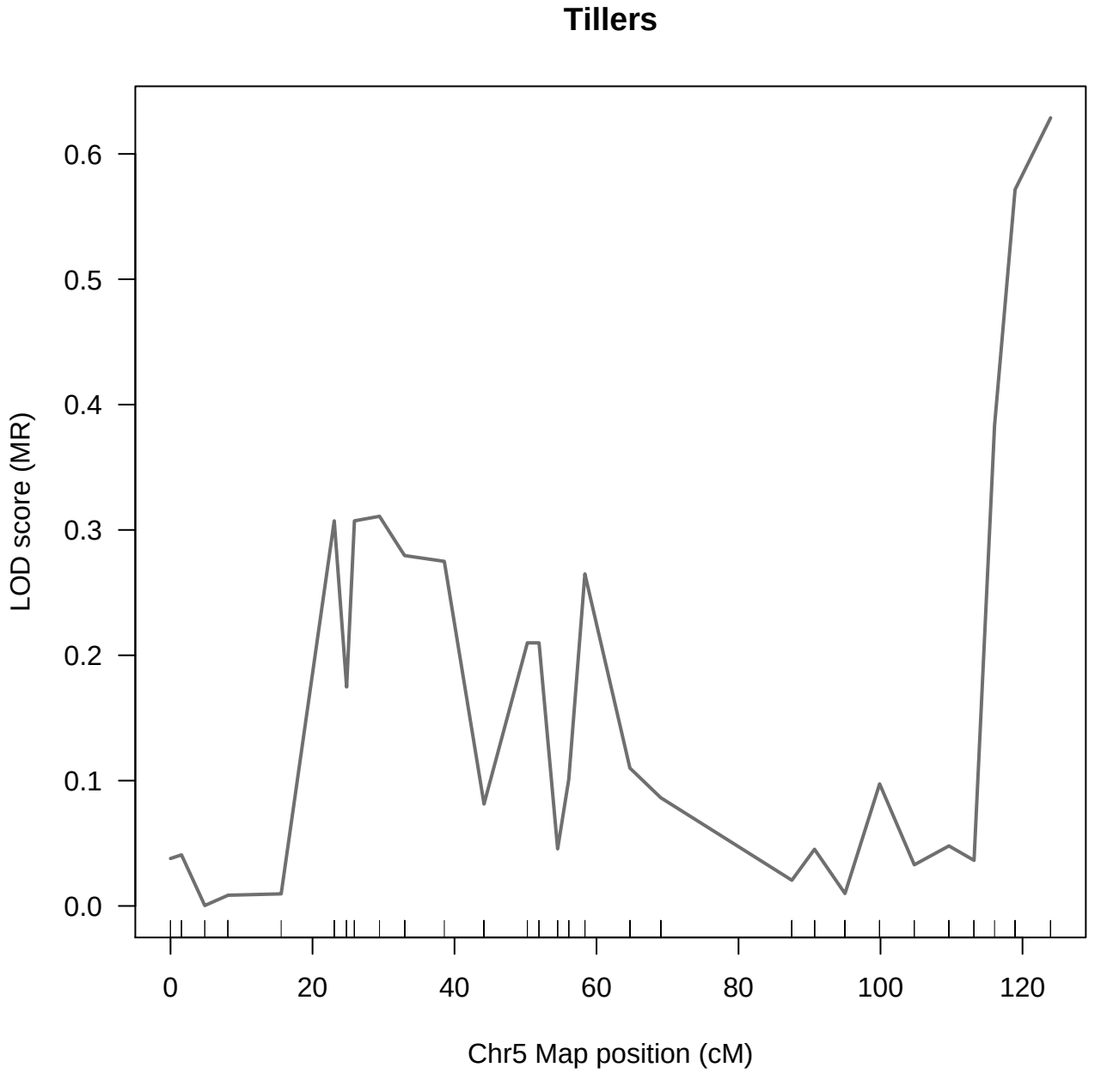

Tillers
LOD score (EM)
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
100
Chr3 Map position (cM)

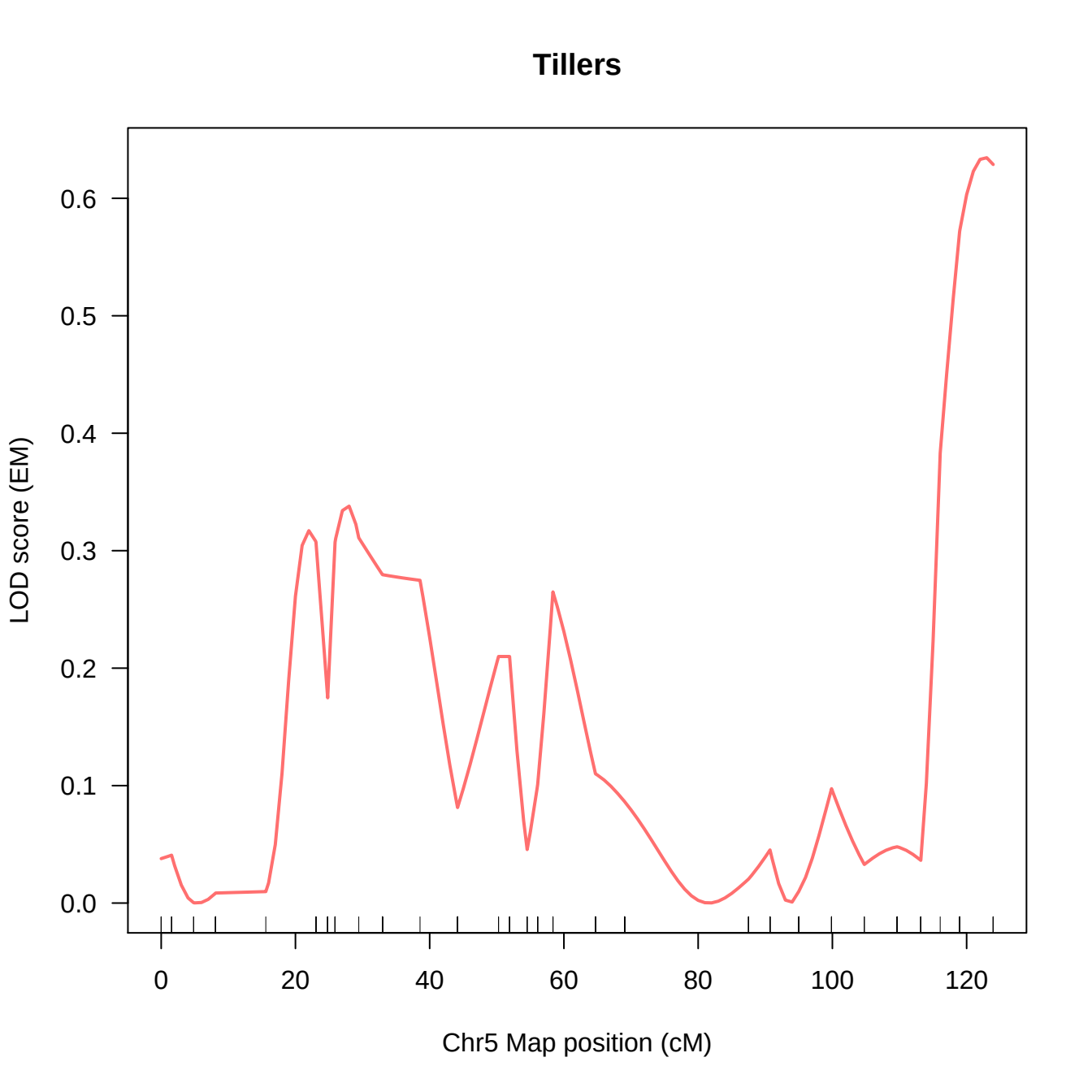

Tillers
LOD score
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
100
Chr3 Map position (cM)

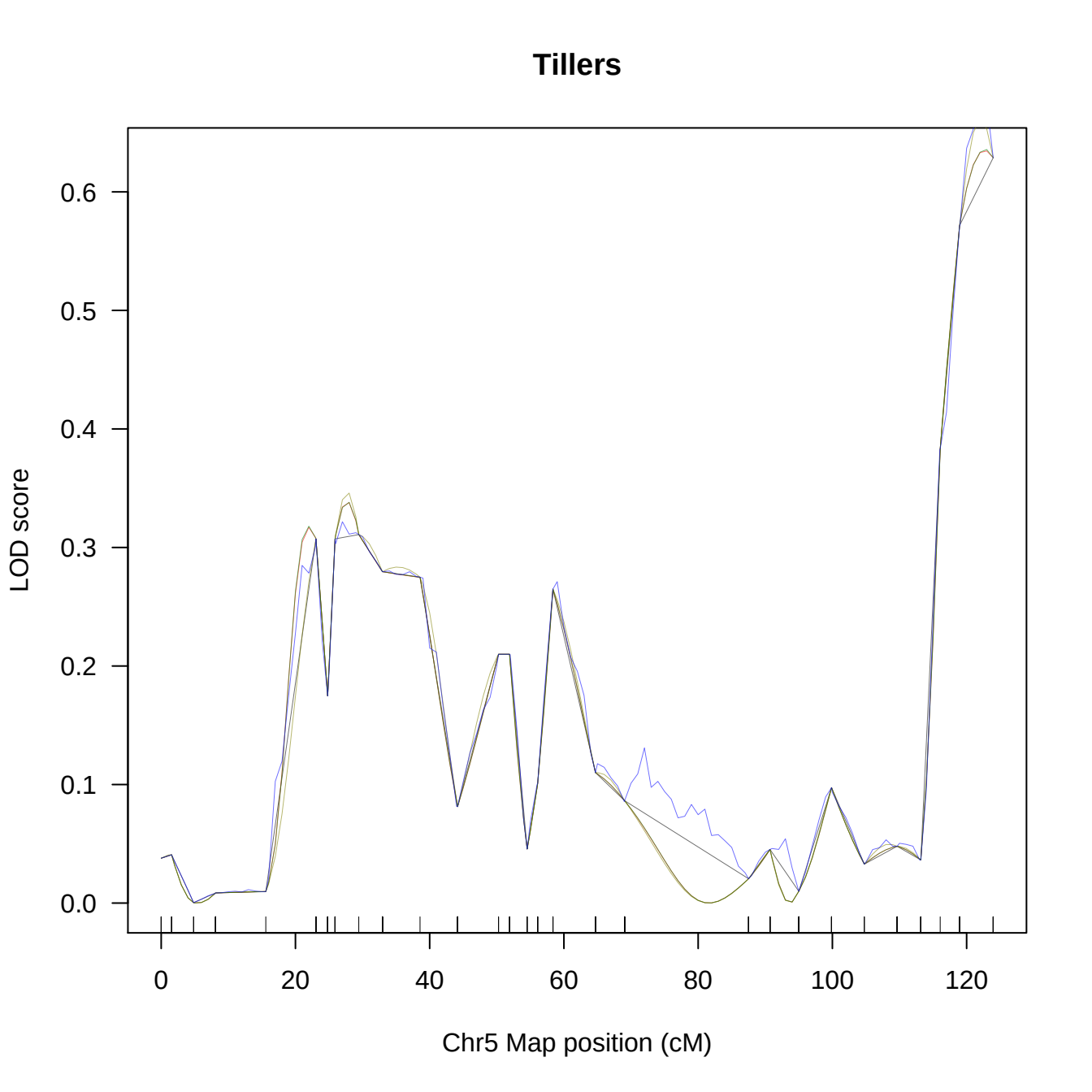

Tillers
LOD score (MR)
0.0
0.1
0.2
0.3
0.4
0
50
100
150
Chr4 Map position (cM)

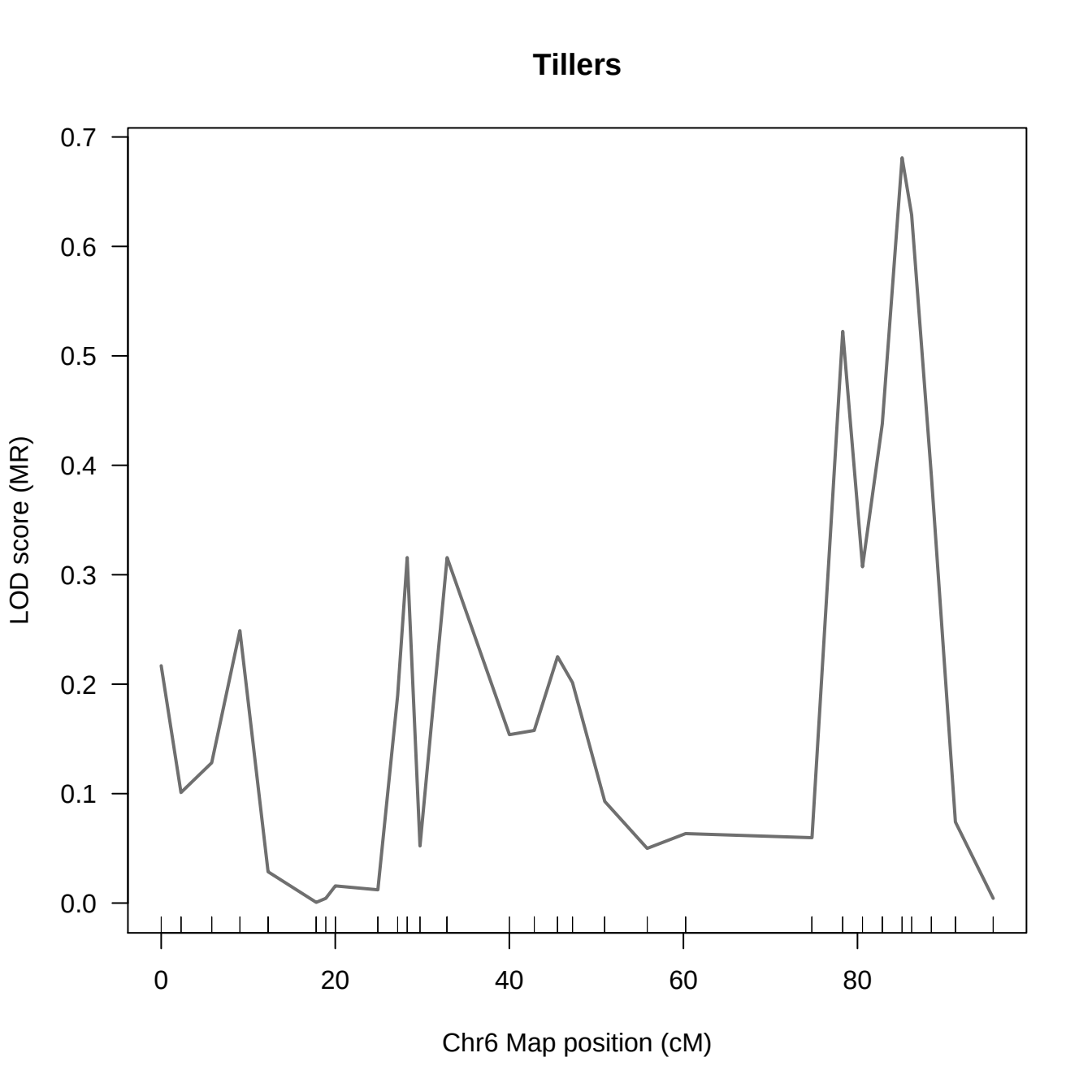

Tillers
LOD score (EM)
0.0
0.1
0.2
0.3
0.4
0
50
100
150
Chr4 Map position (cM)

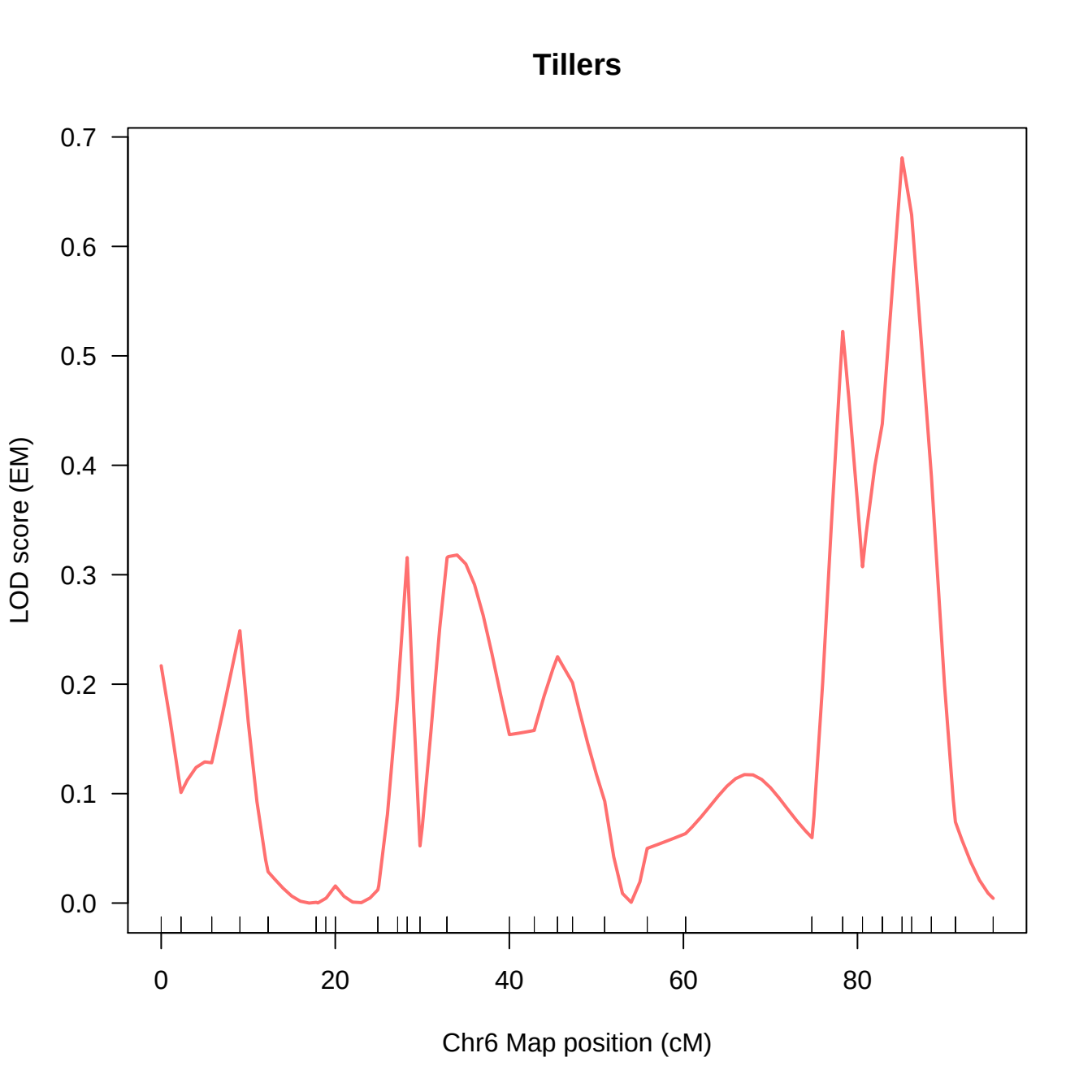

Tillers
LOD score
0.0
0.1
0.2
0.3
0.4
0
50
100
150
Chr4 Map position (cM)

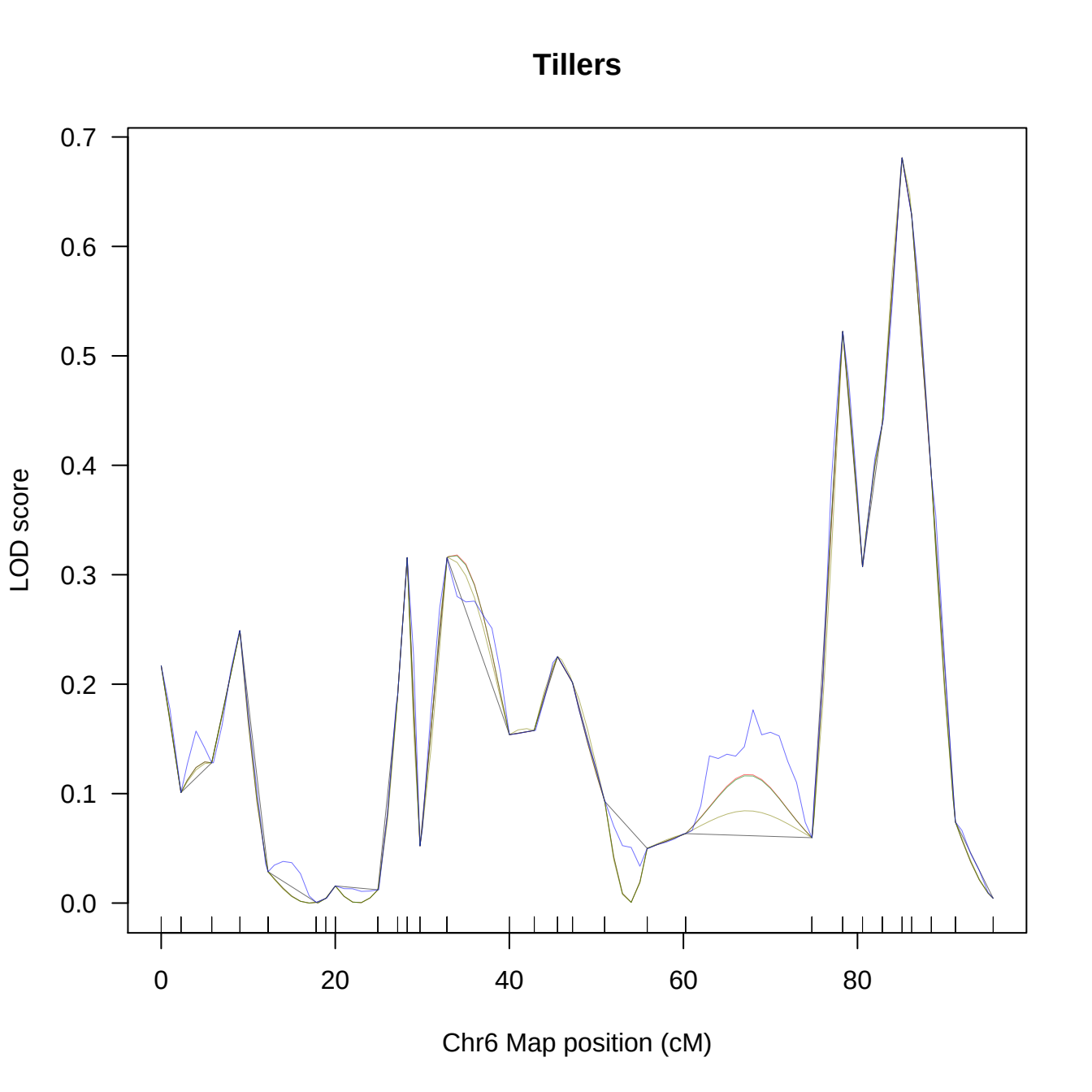

Tillers
LOD score (MR)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0
20
40
60
80
100
120
Chr5 Map position (cM)

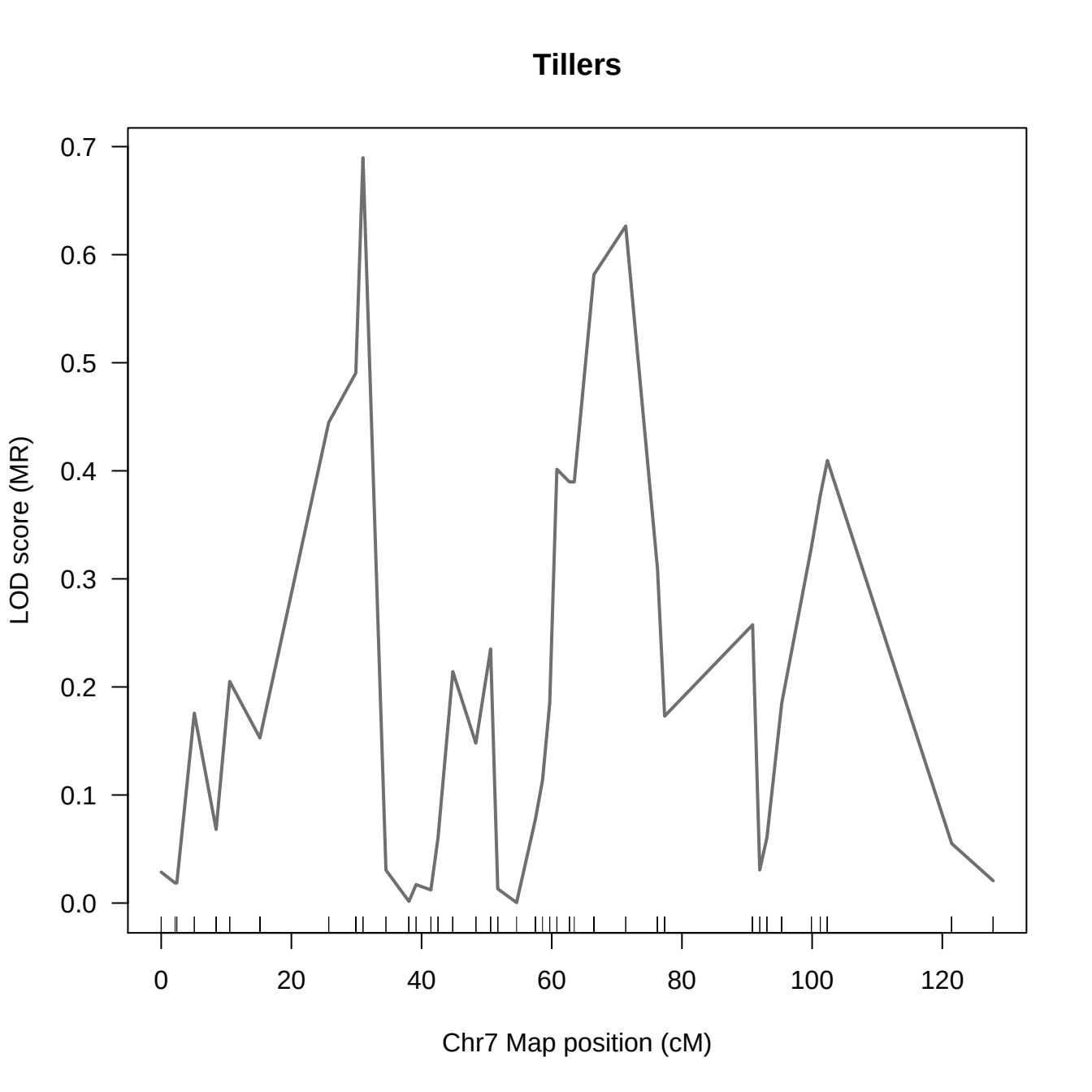

Tillers
LOD score (EM)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0
20
40
60
80
100
120
Chr5 Map position (cM)

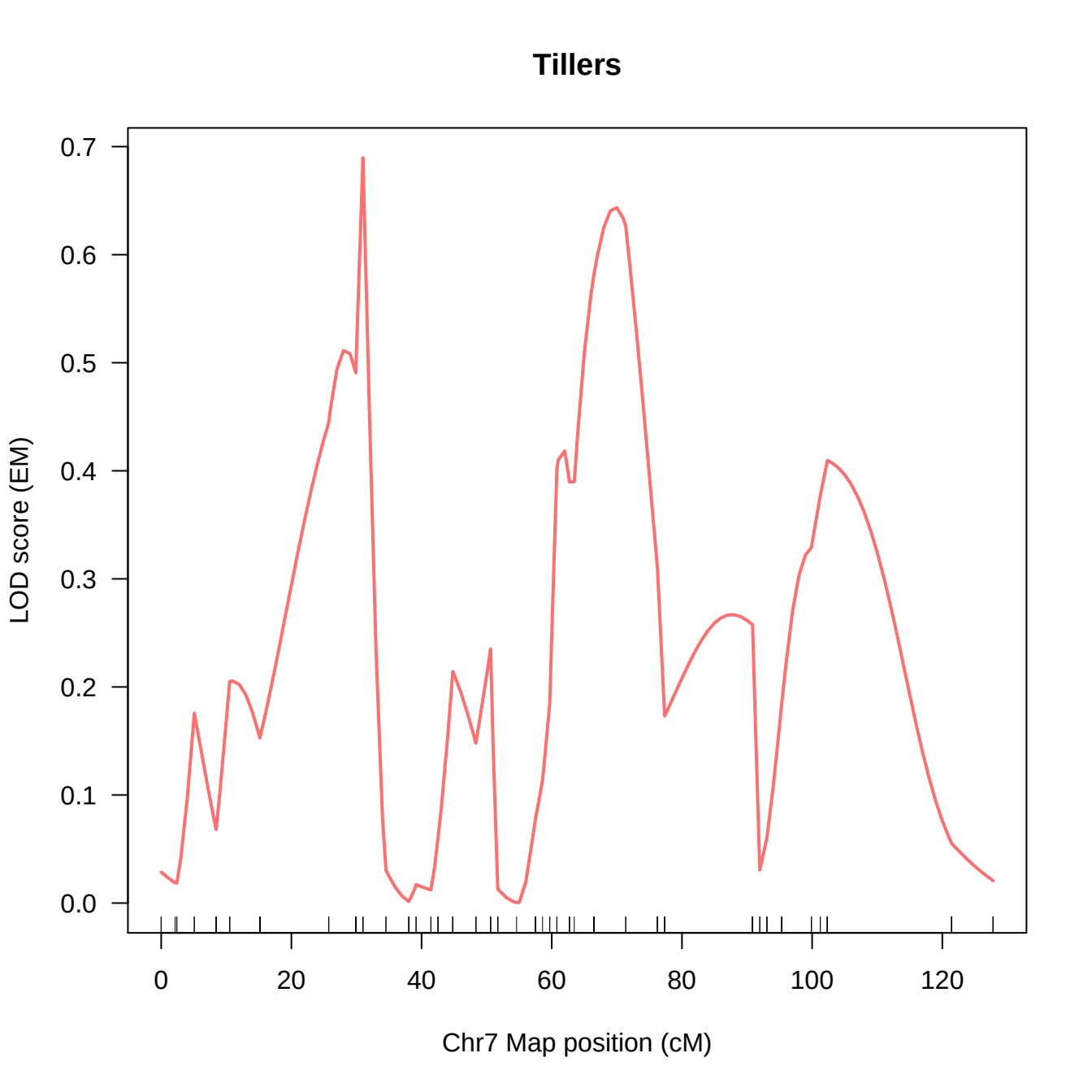

Tillers
LOD score
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0
20
40
60
80
100
120
Chr5 Map position (cM)

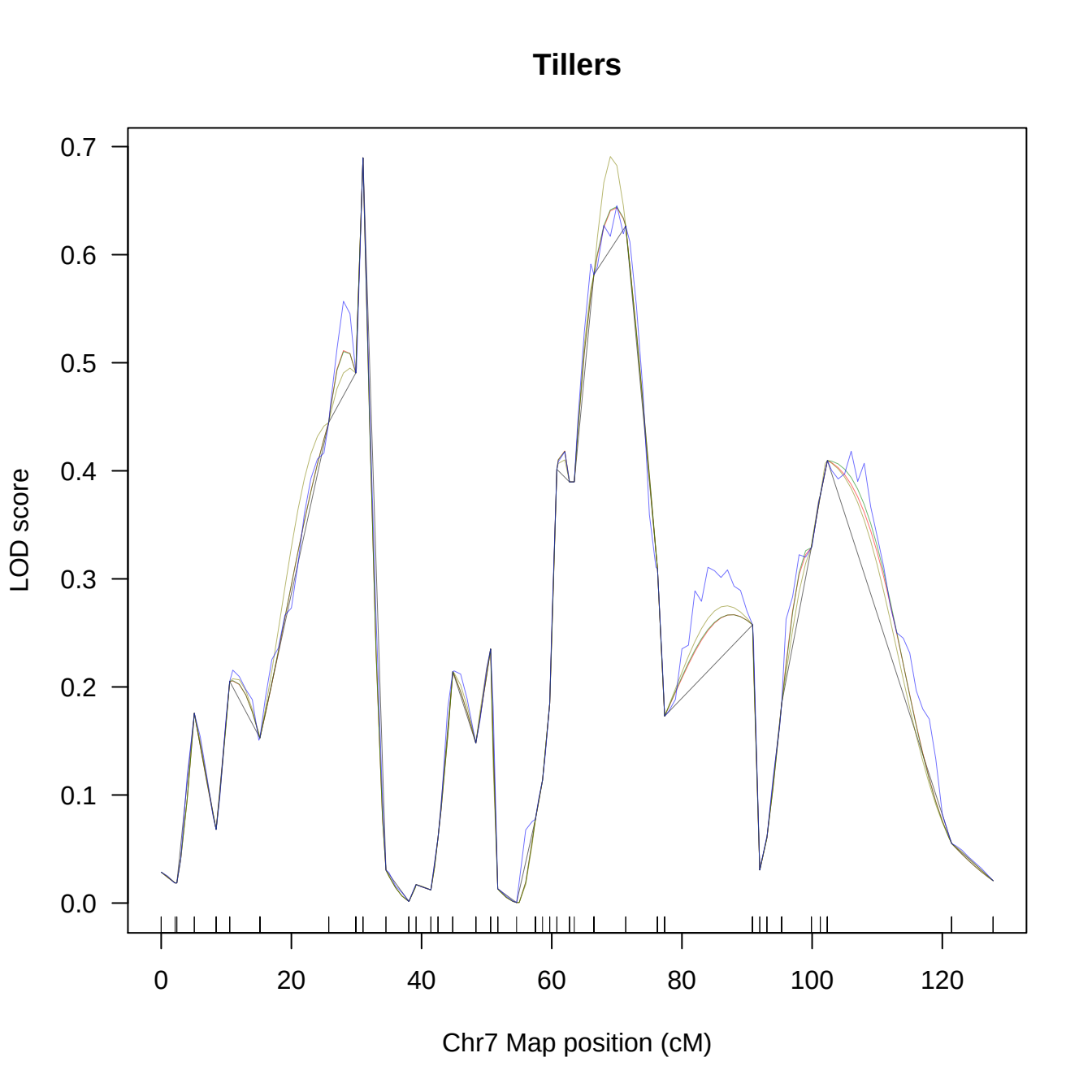

Tillers
LOD score (MR)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0
20
40
60
80
Chr6 Map position (cM)

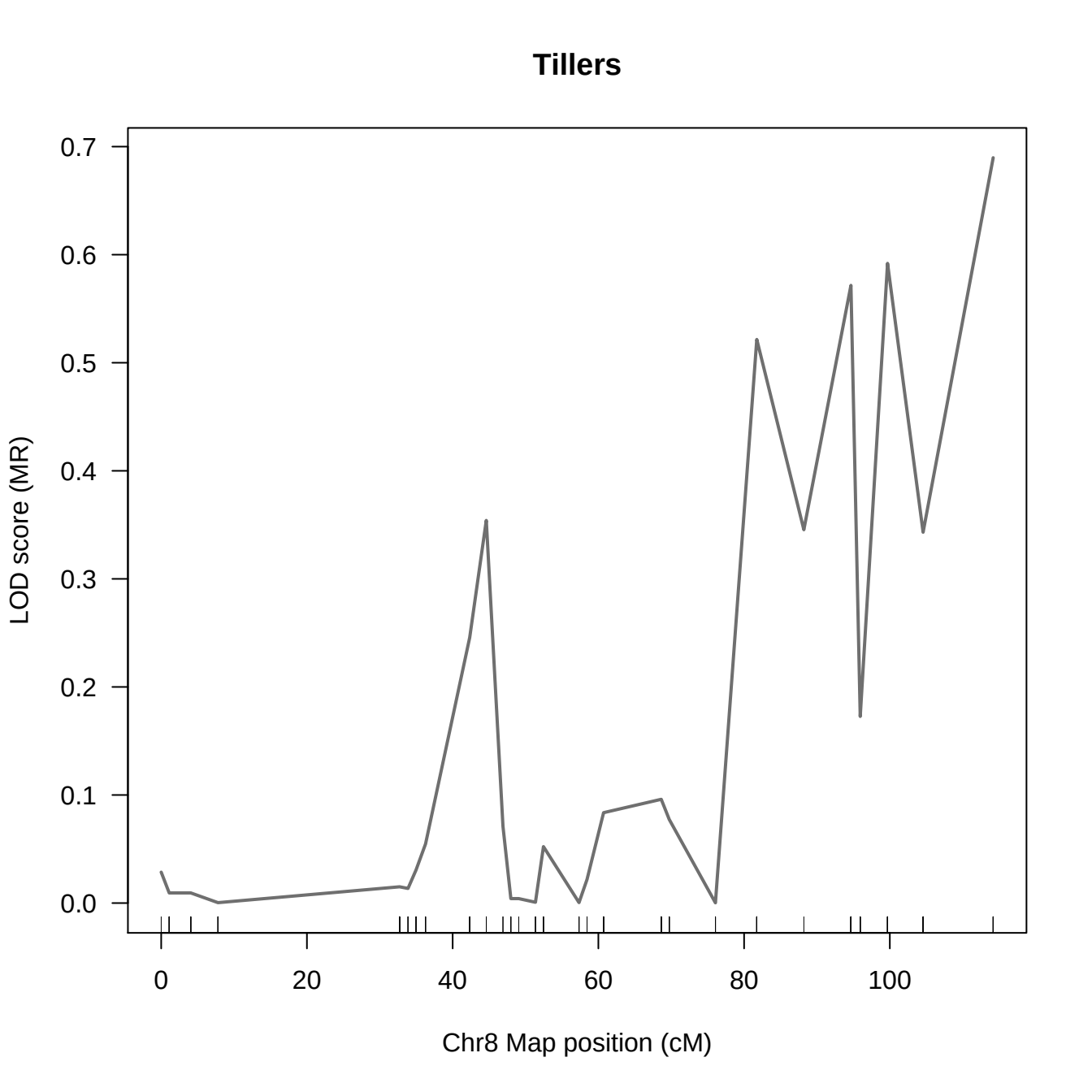

Tillers
LOD score (EM)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0
20
40
60
80
Chr6 Map position (cM)

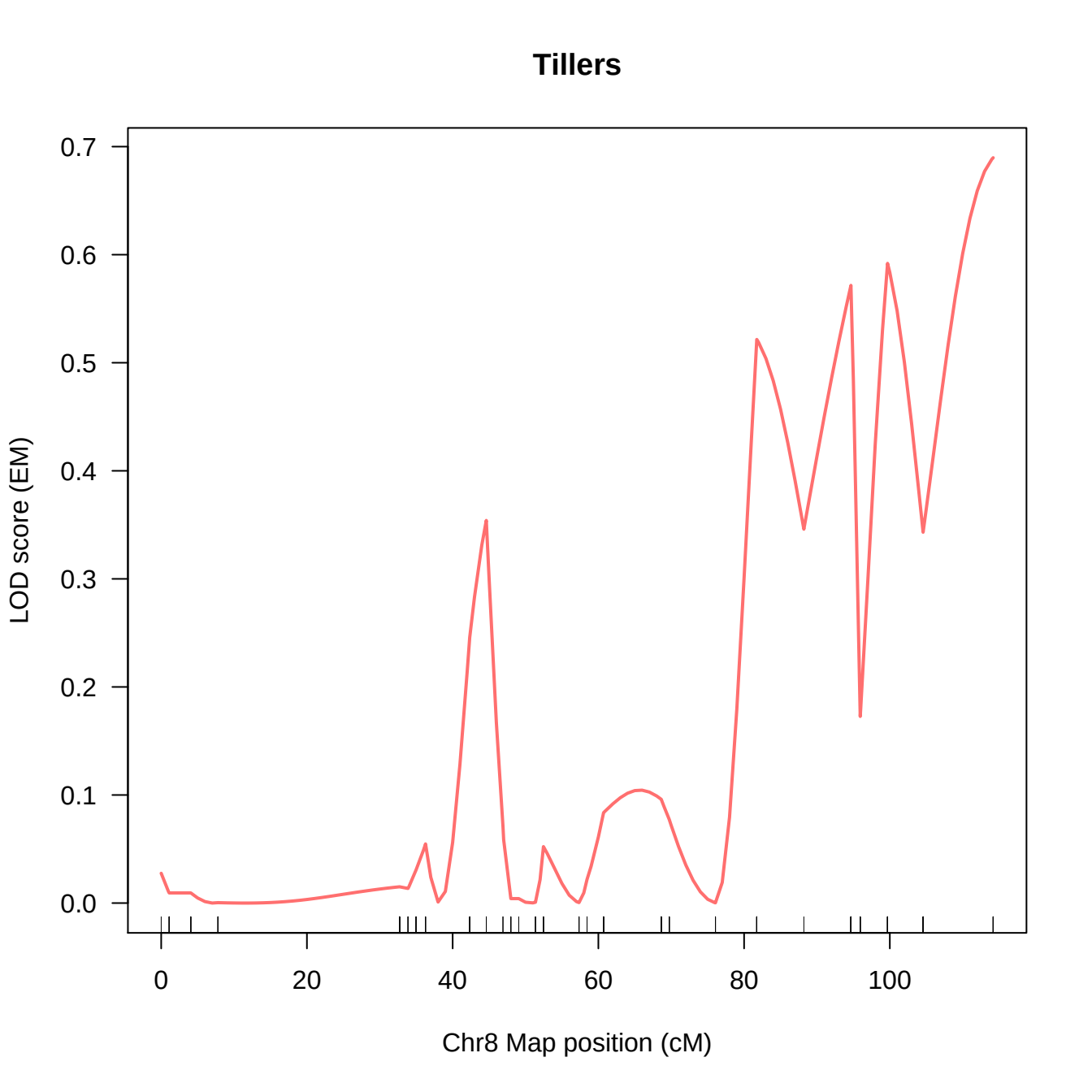

Tillers
LOD score
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0
20
40
60
80
Chr6 Map position (cM)

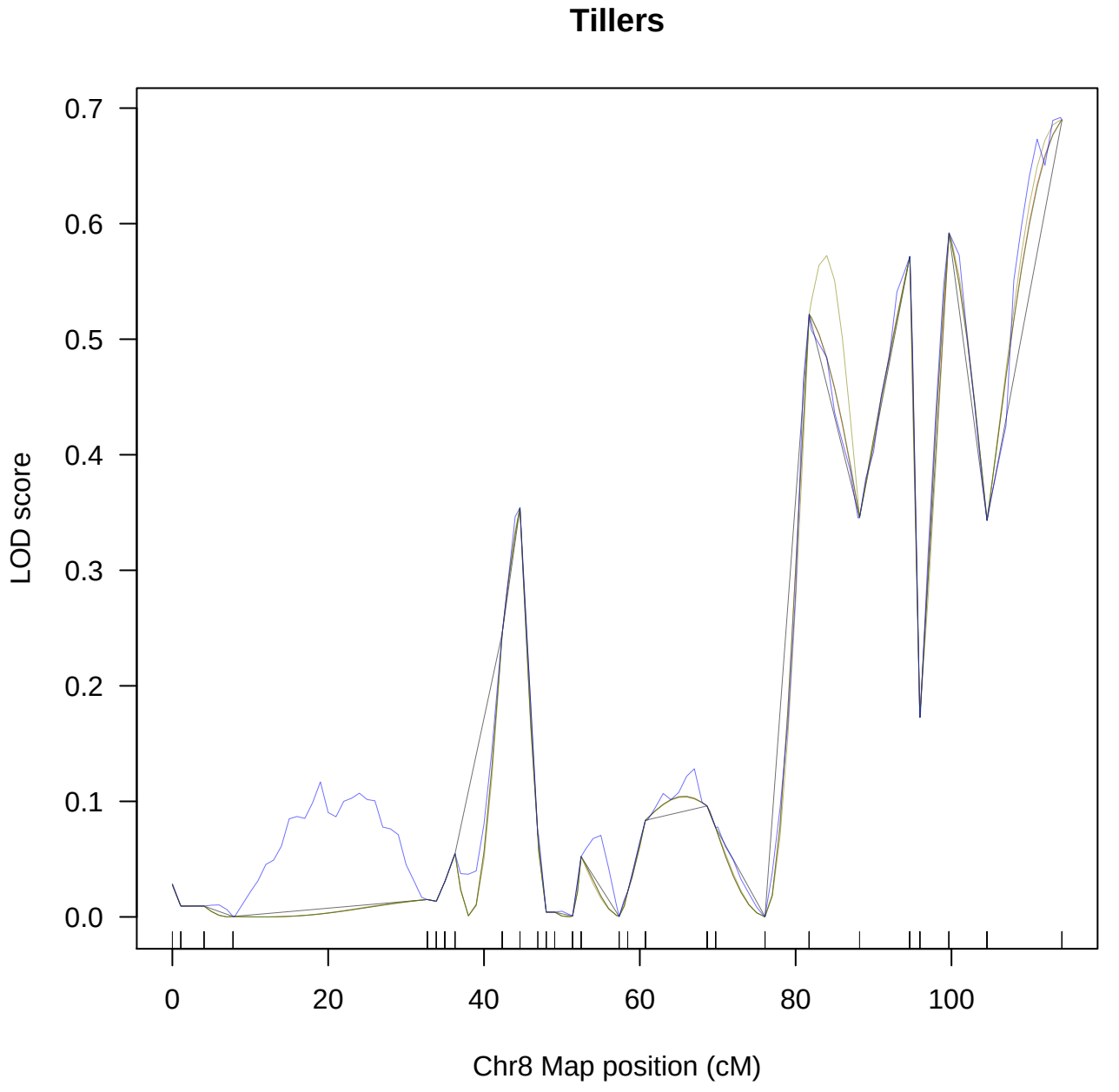

Tillers
LOD score (MR)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0
20
40
60
80
100
120
Chr7 Map position (cM)

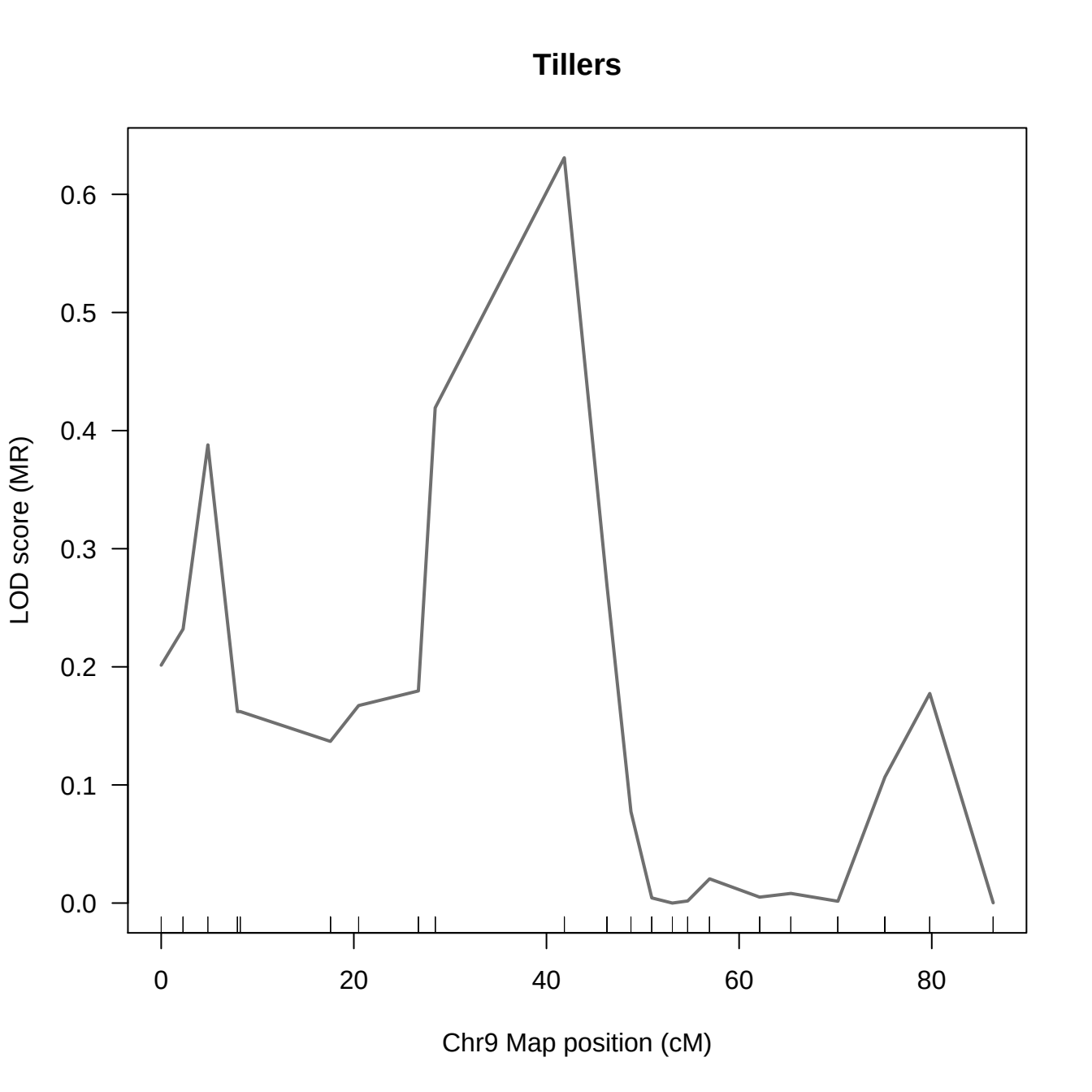

Tillers
LOD score (EM)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0
20
40
60
80
100
120
Chr7 Map position (cM)

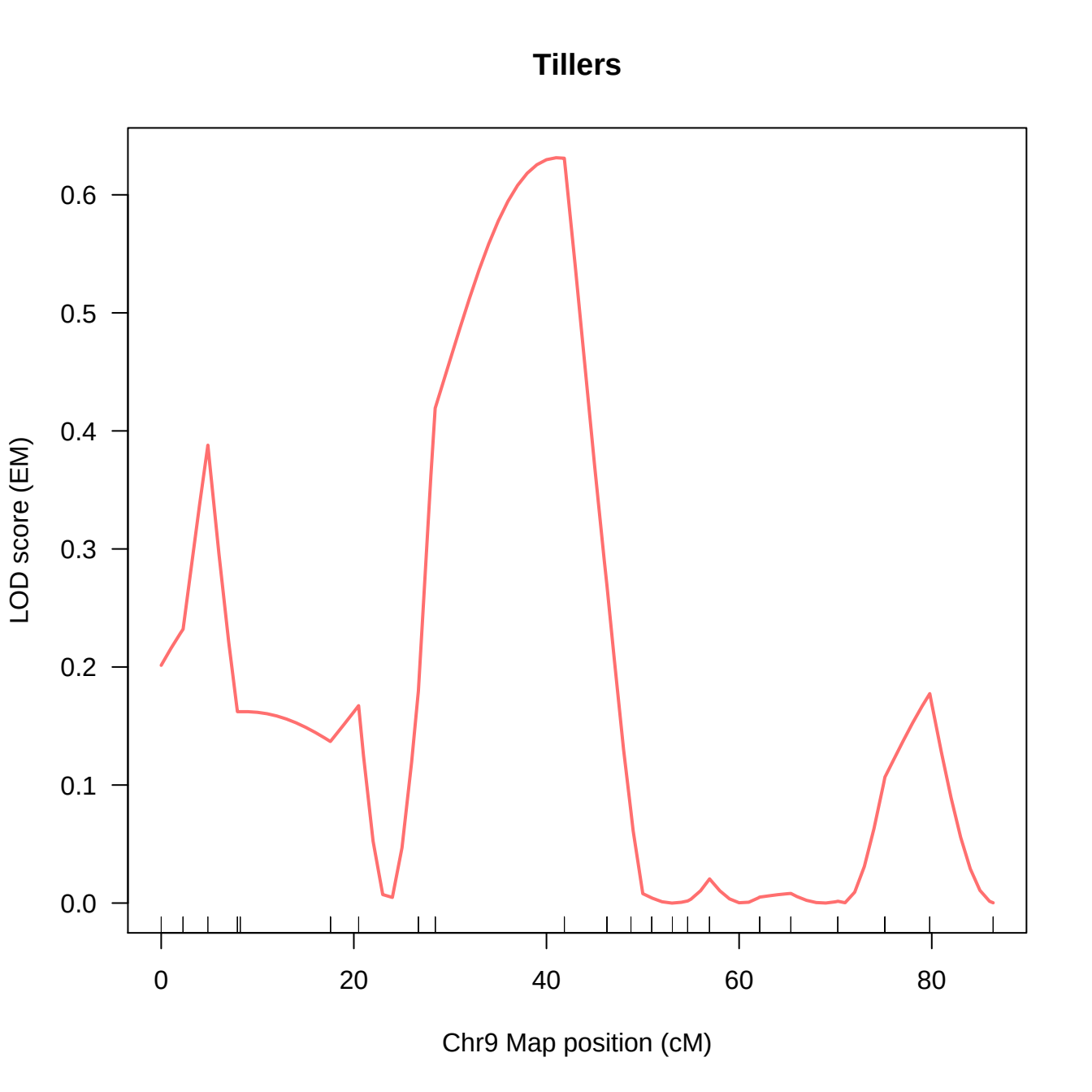

Tillers
LOD score
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0
20
40
60
80
100
120
Chr7 Map position (cM)

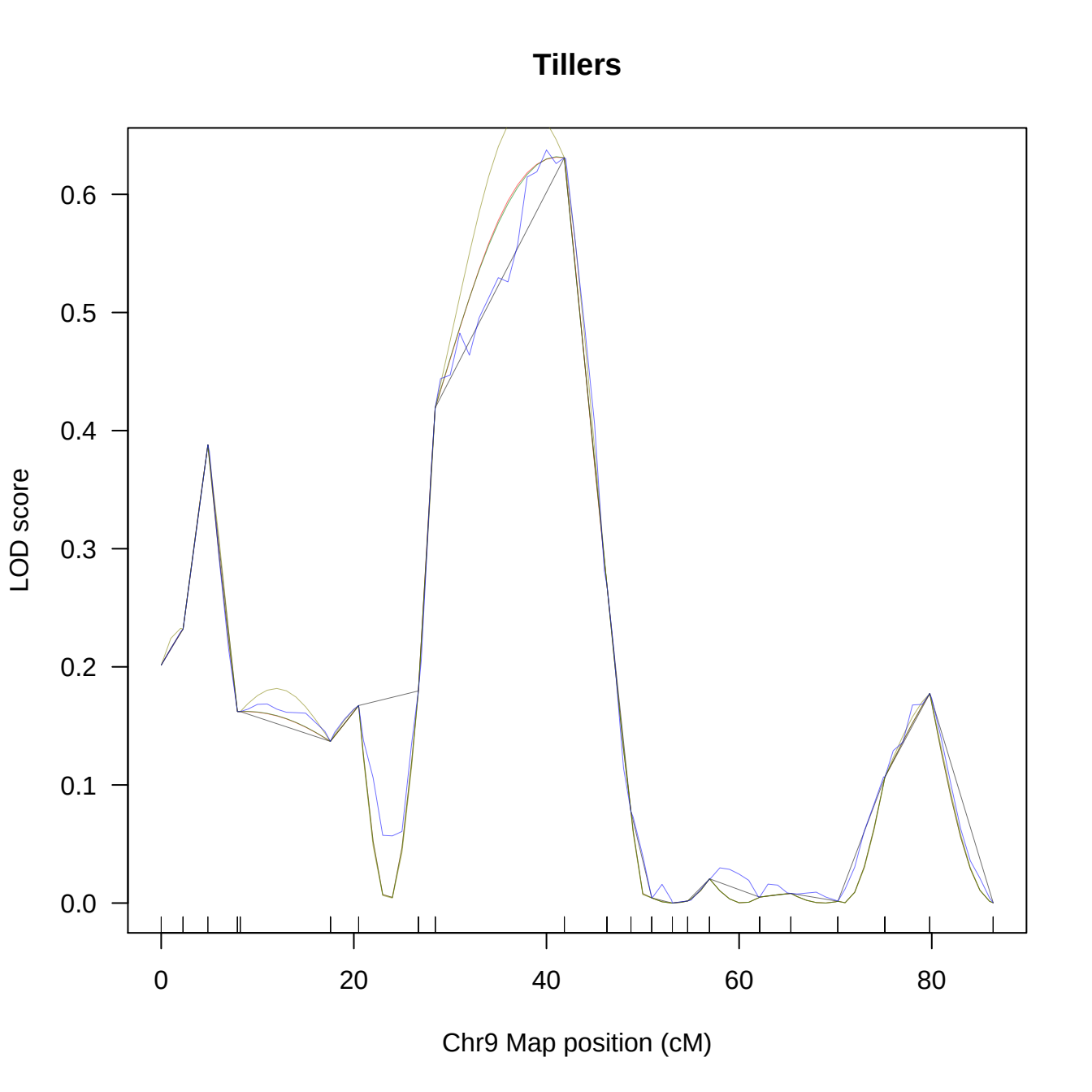

Tillers
LOD score (MR)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0
20
40
60
80
100
Chr8 Map position (cM)

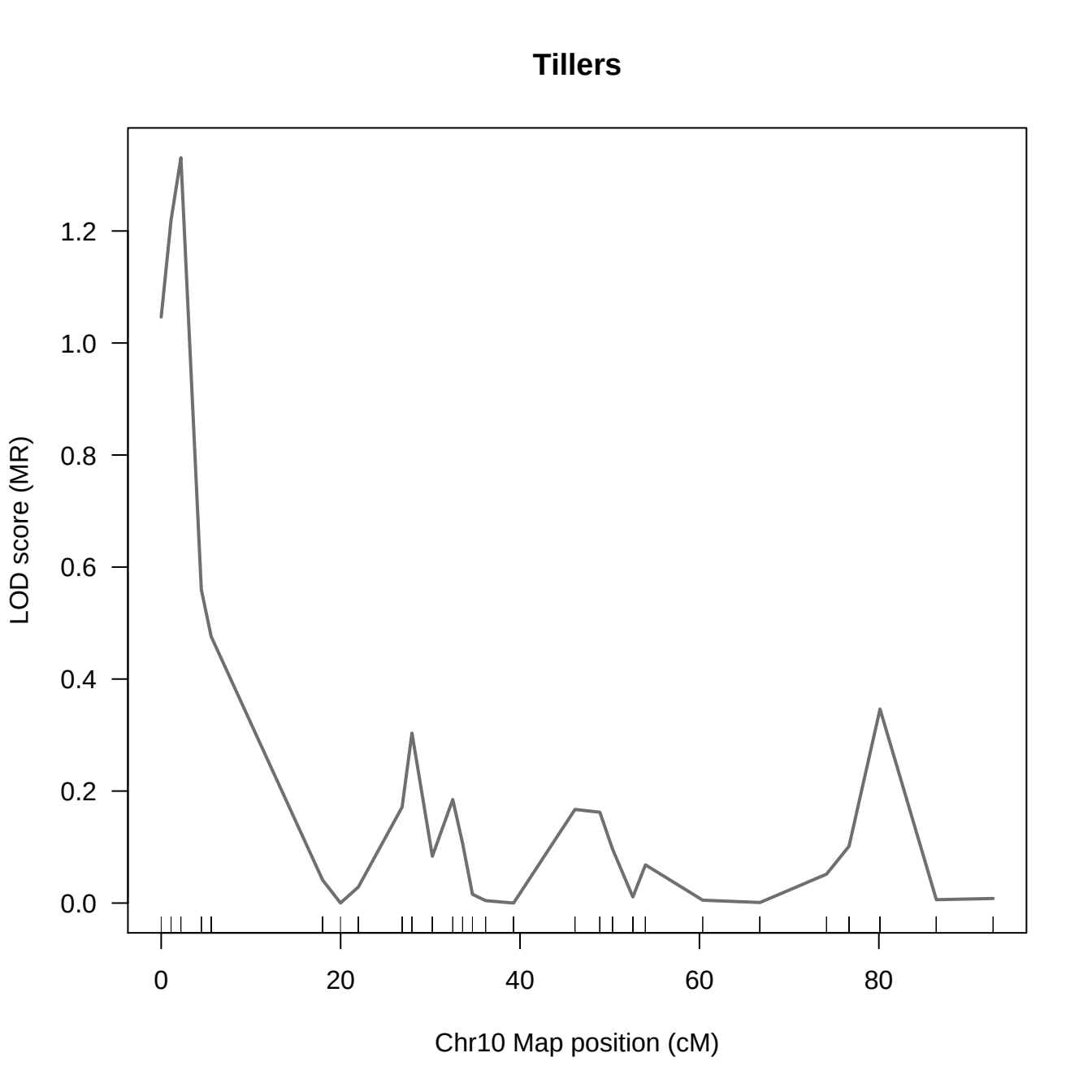

Tillers
LOD score (EM)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0
20
40
60
80
100
Chr8 Map position (cM)

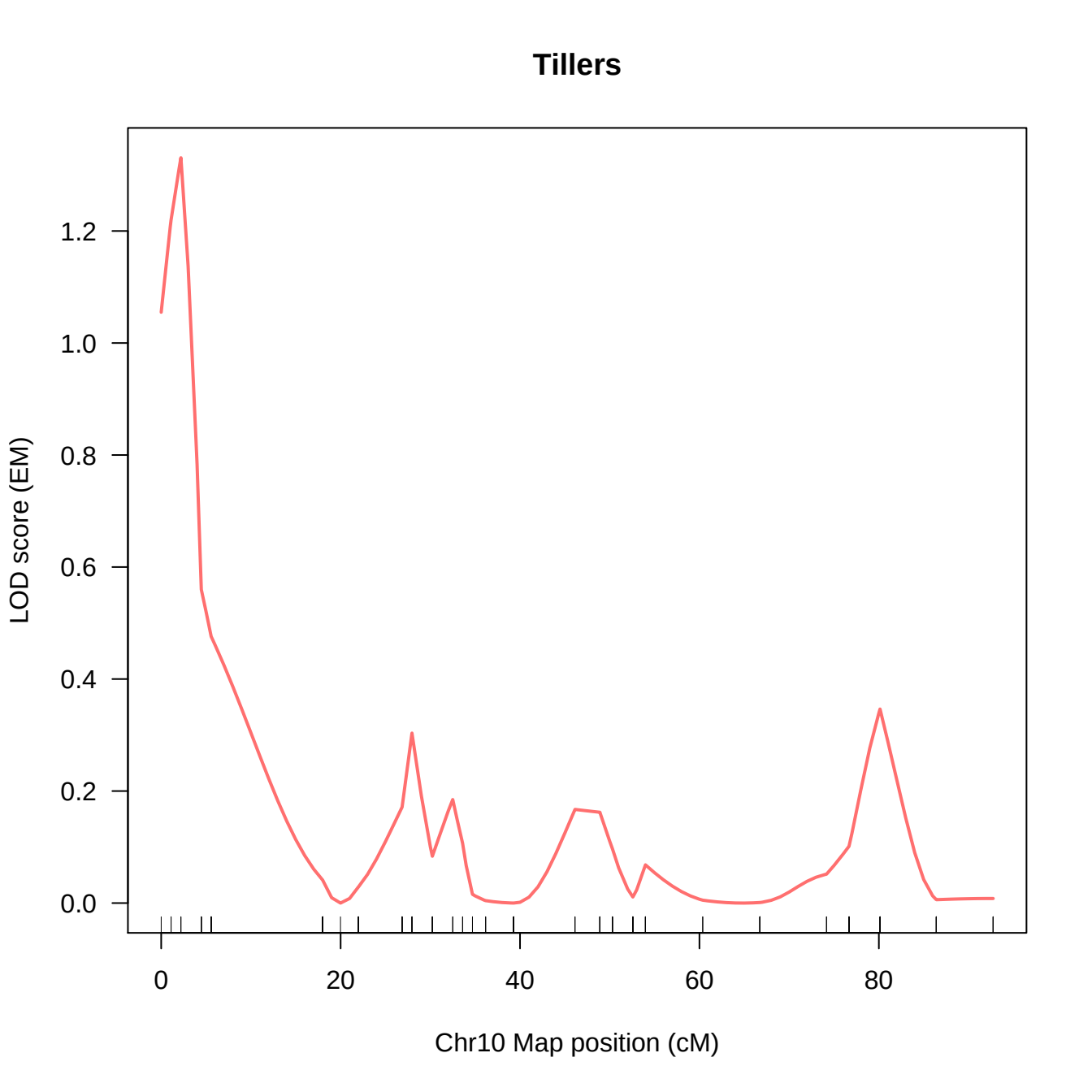

Tillers
LOD score
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0
20
40
60
80
100
Chr8 Map position (cM)

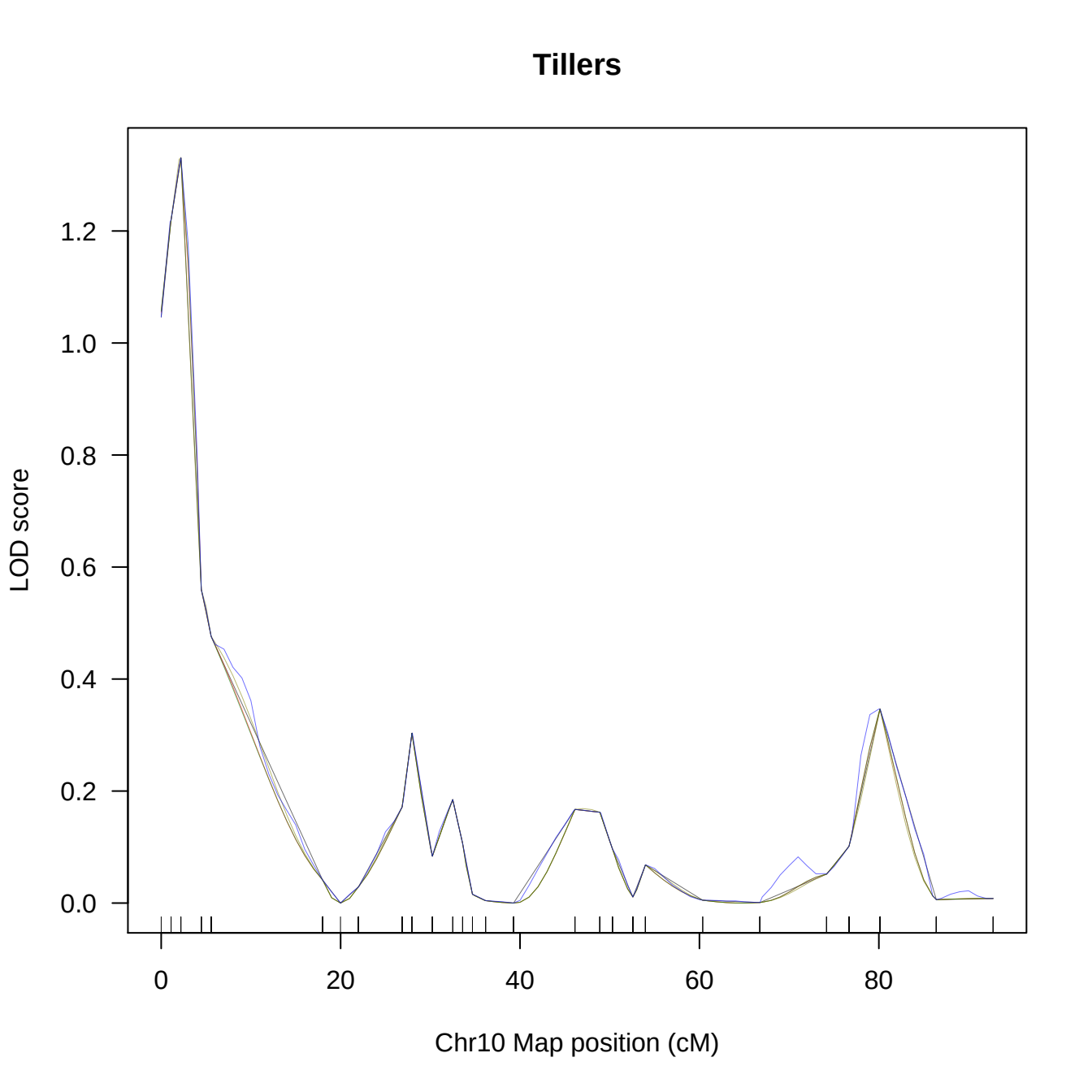

Tillers
LOD score (MR)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0
20
40
60
80
Chr9 Map position (cM)

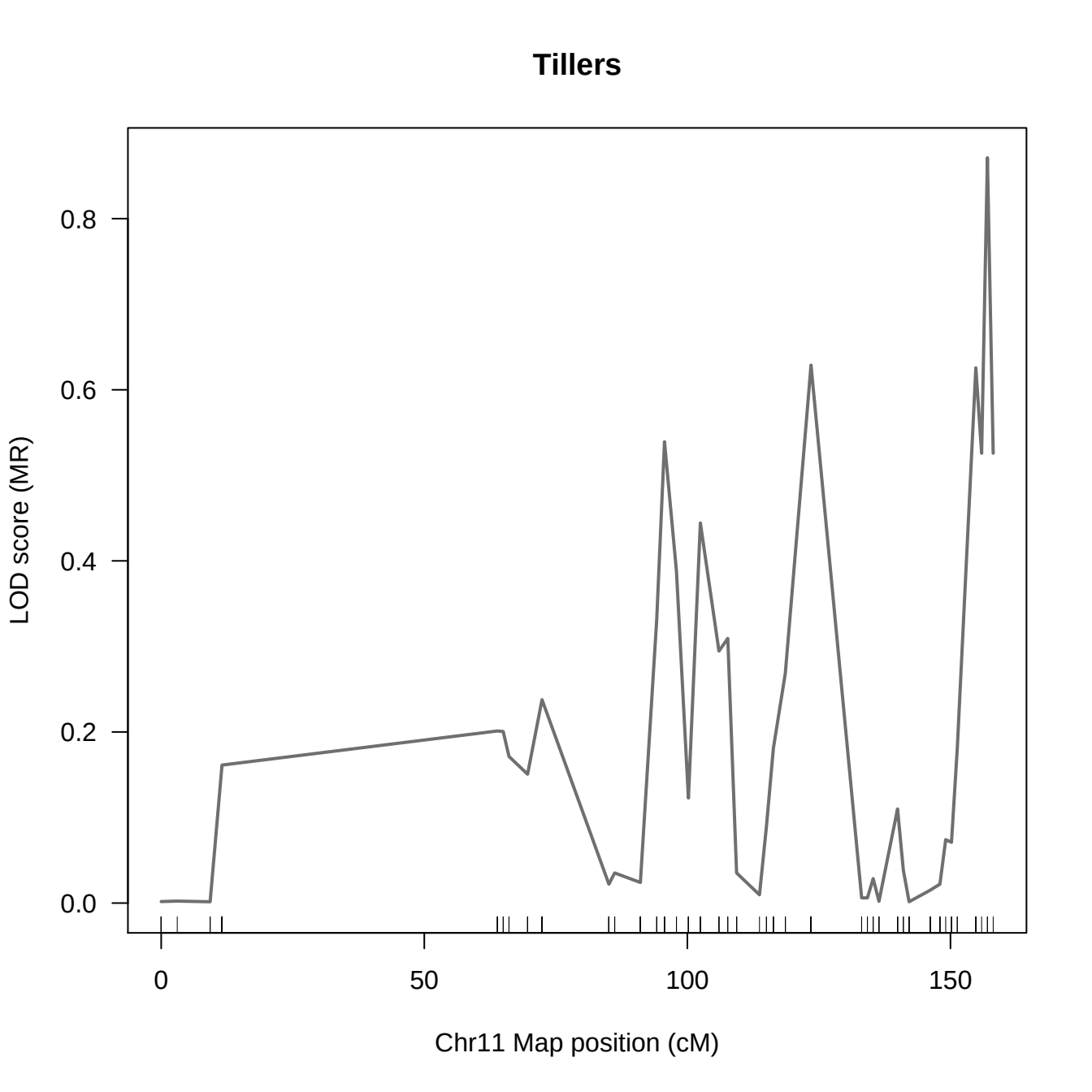

Tillers
LOD score (EM)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0
20
40
60
80
Chr9 Map position (cM)

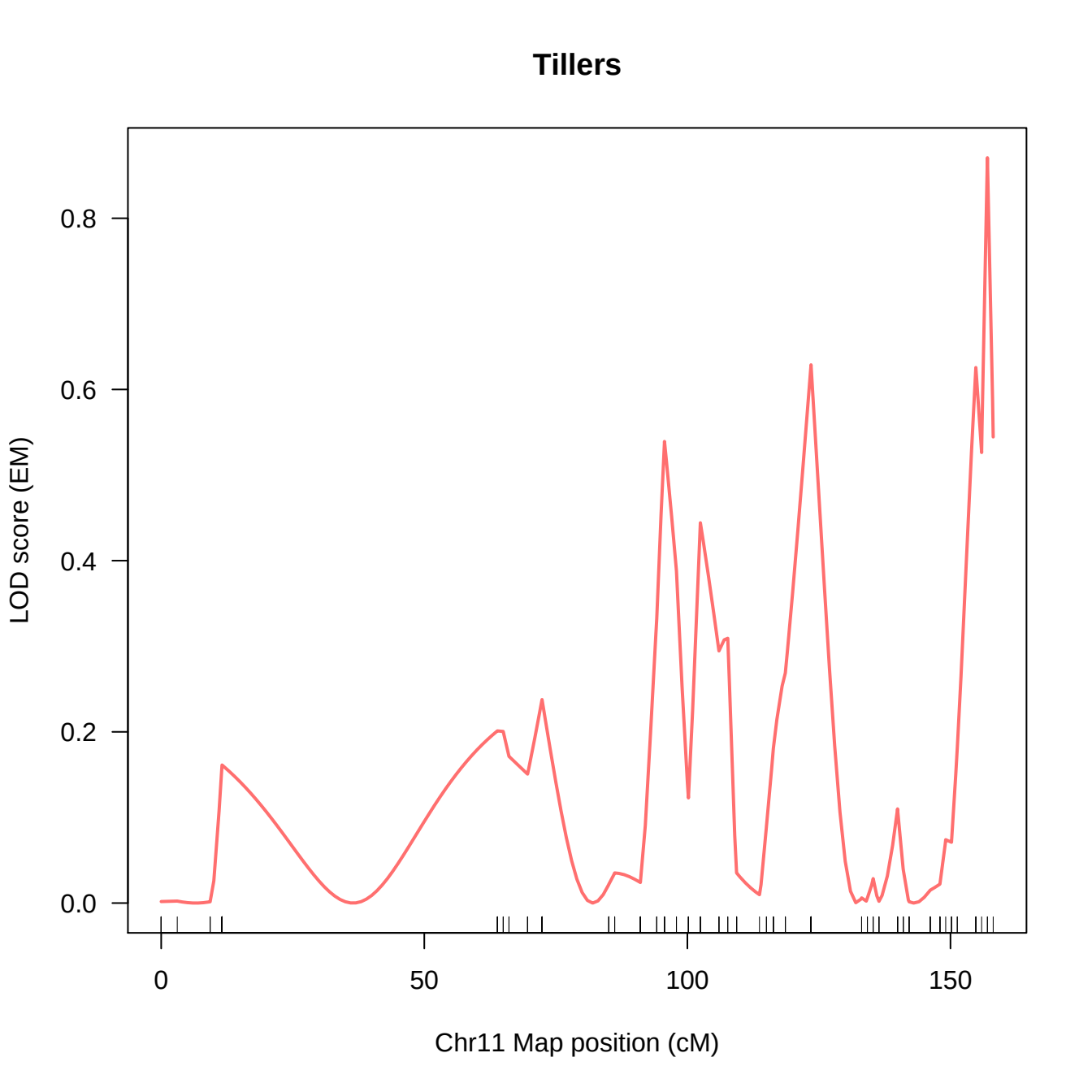

Tillers
LOD score
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0
20
40
60
80
Chr9 Map position (cM)

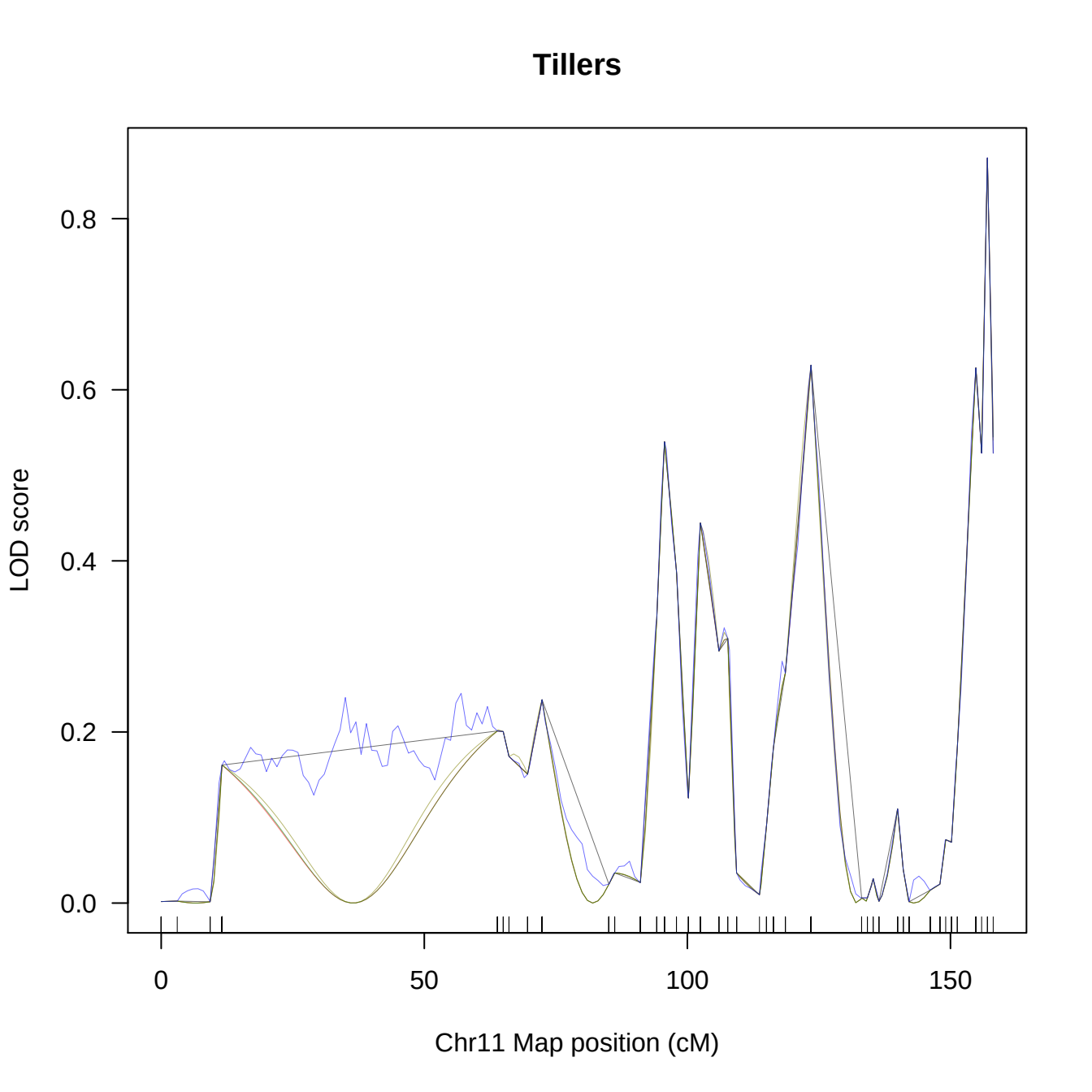

Tillers
LOD score (MR)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
Chr10 Map position (cM)

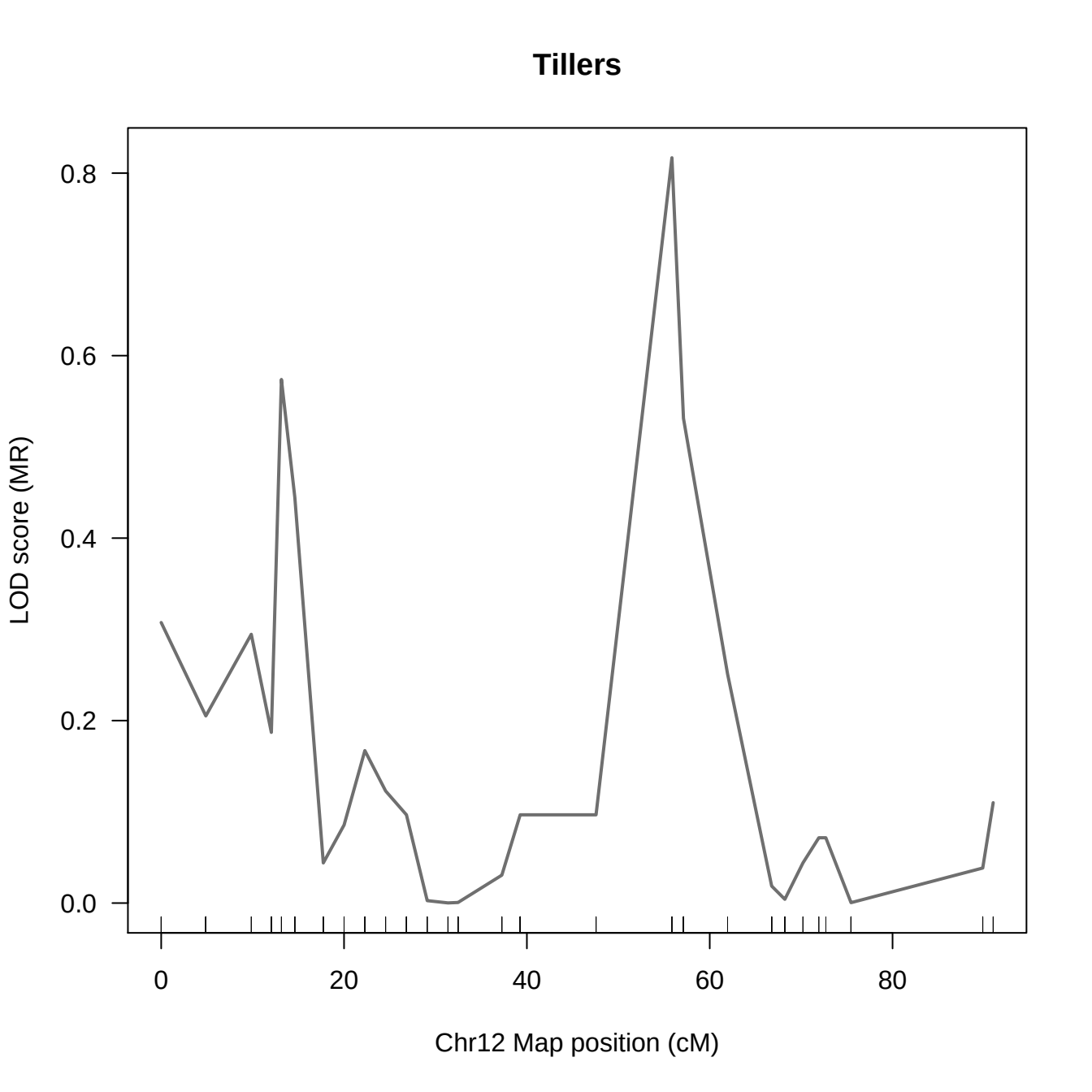

Tillers
LOD score (EM)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
Chr10 Map position (cM)

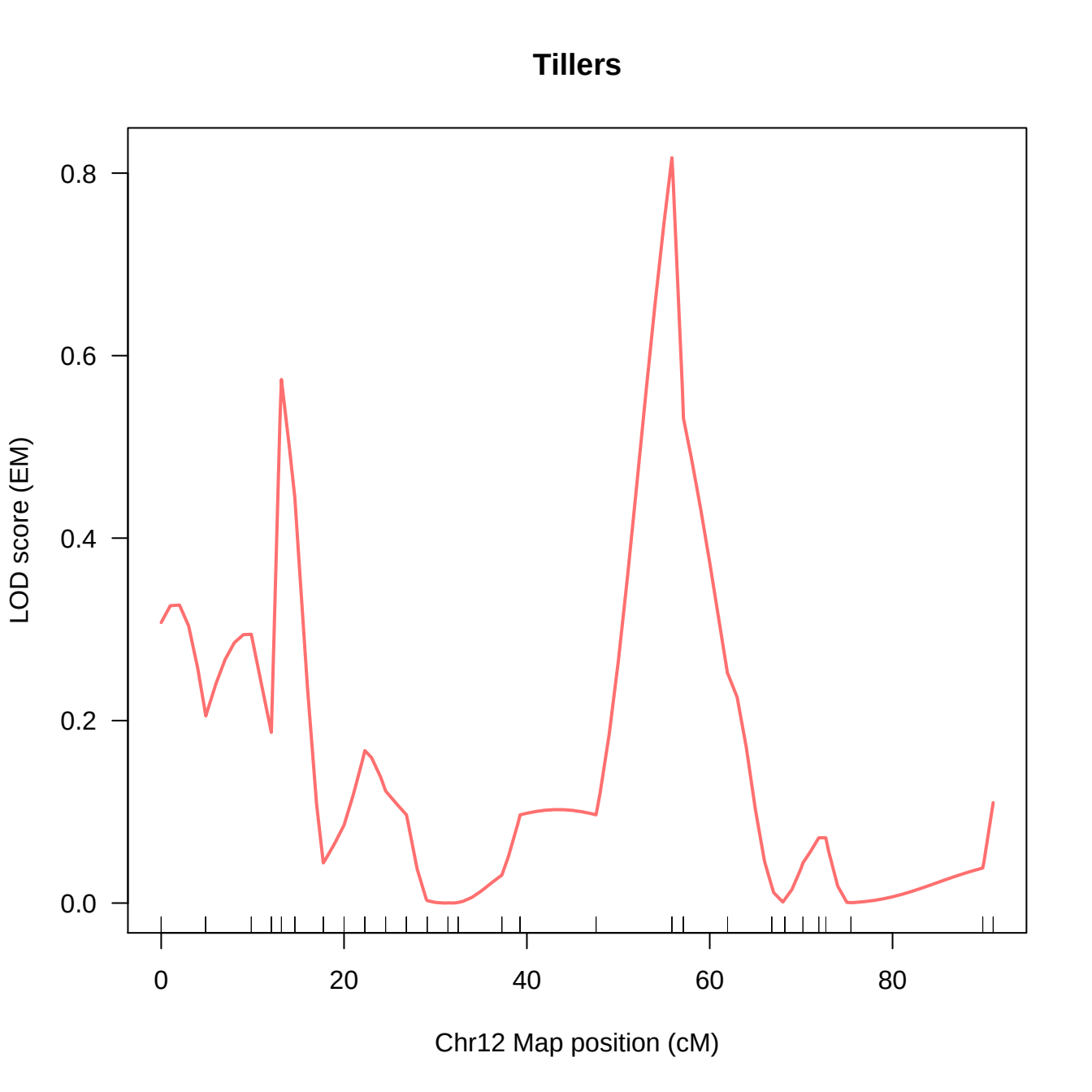

Tillers
LOD score
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
Chr10 Map position (cM)

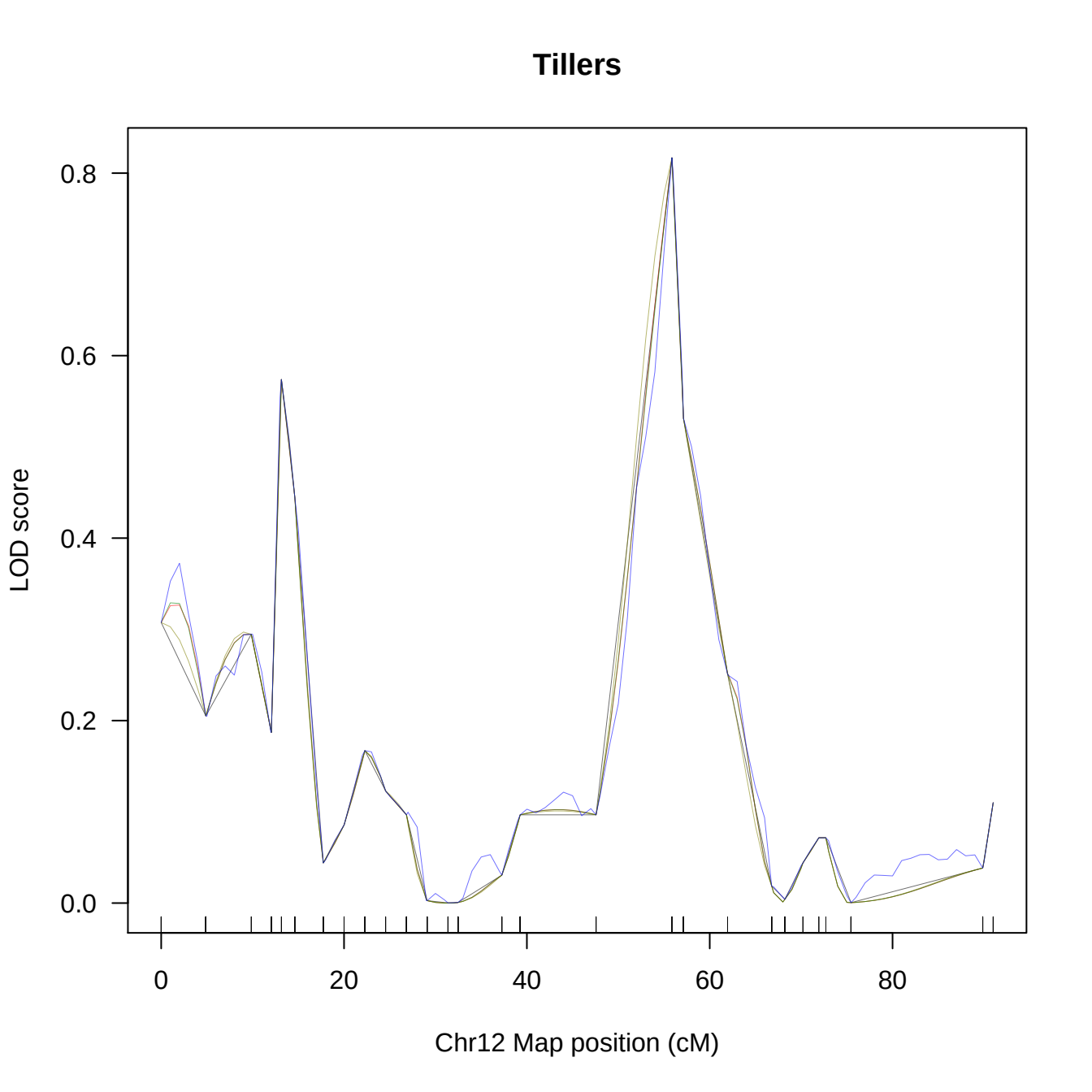

Tillers
LOD score (MR)
0.0
0.2
0.4
0.6
0.8
0
50
100
150
Chr11 Map position (cM)

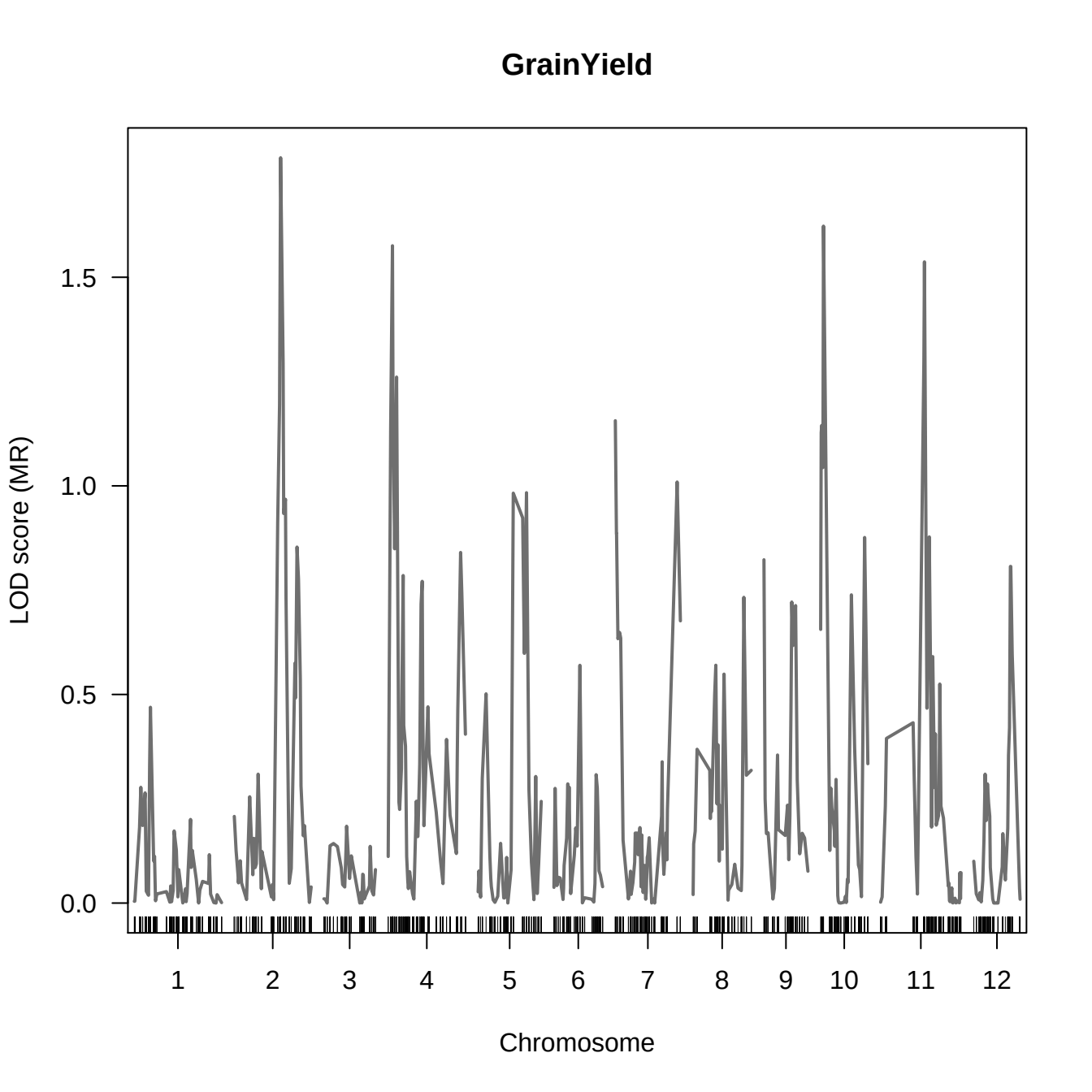

Tillers
LOD score (EM)
0.0
0.2
0.4
0.6
0.8
0
50
100
150
Chr11 Map position (cM)

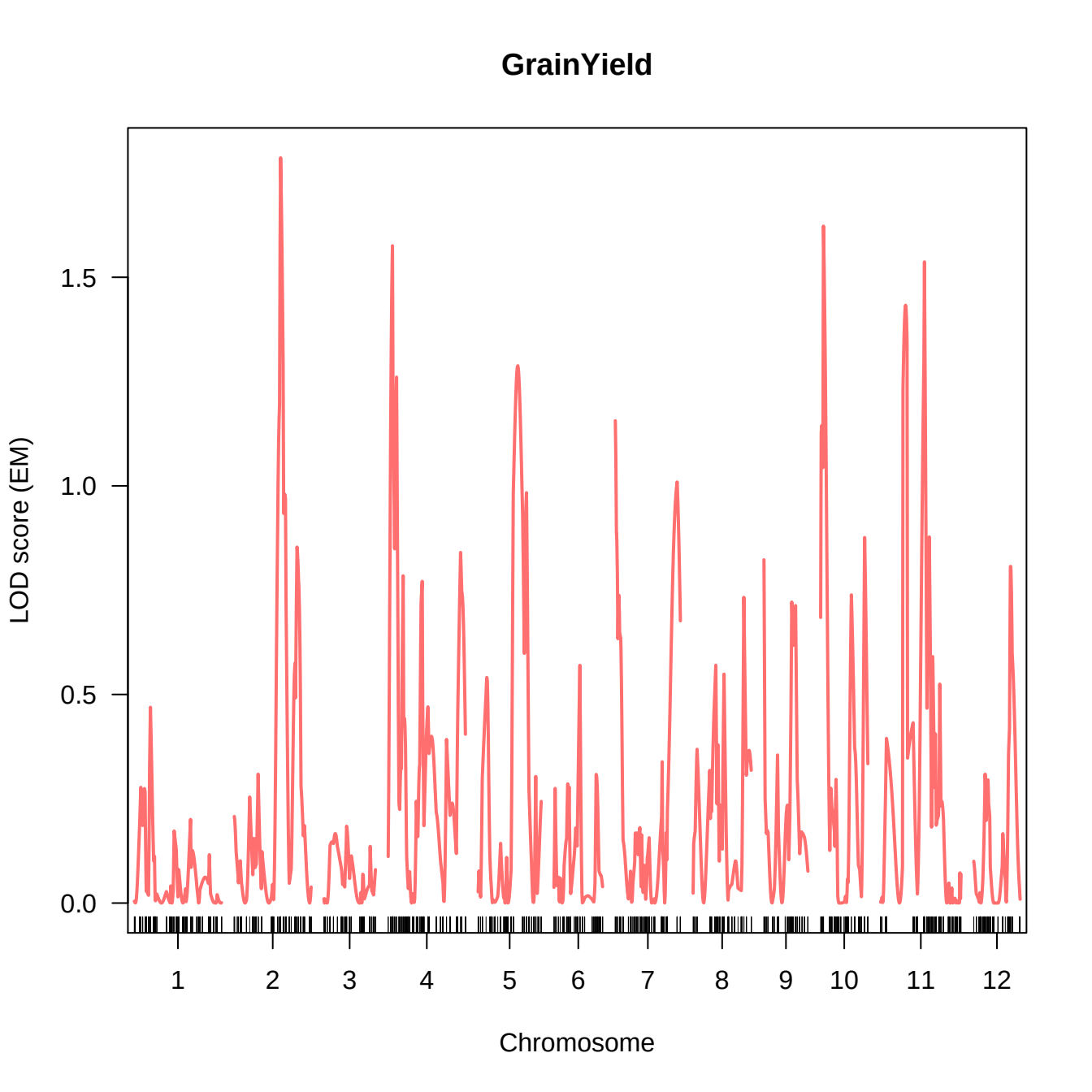

Tillers
LOD score
0.0
0.2
0.4
0.6
0.8
0
50
100
150
Chr11 Map position (cM)

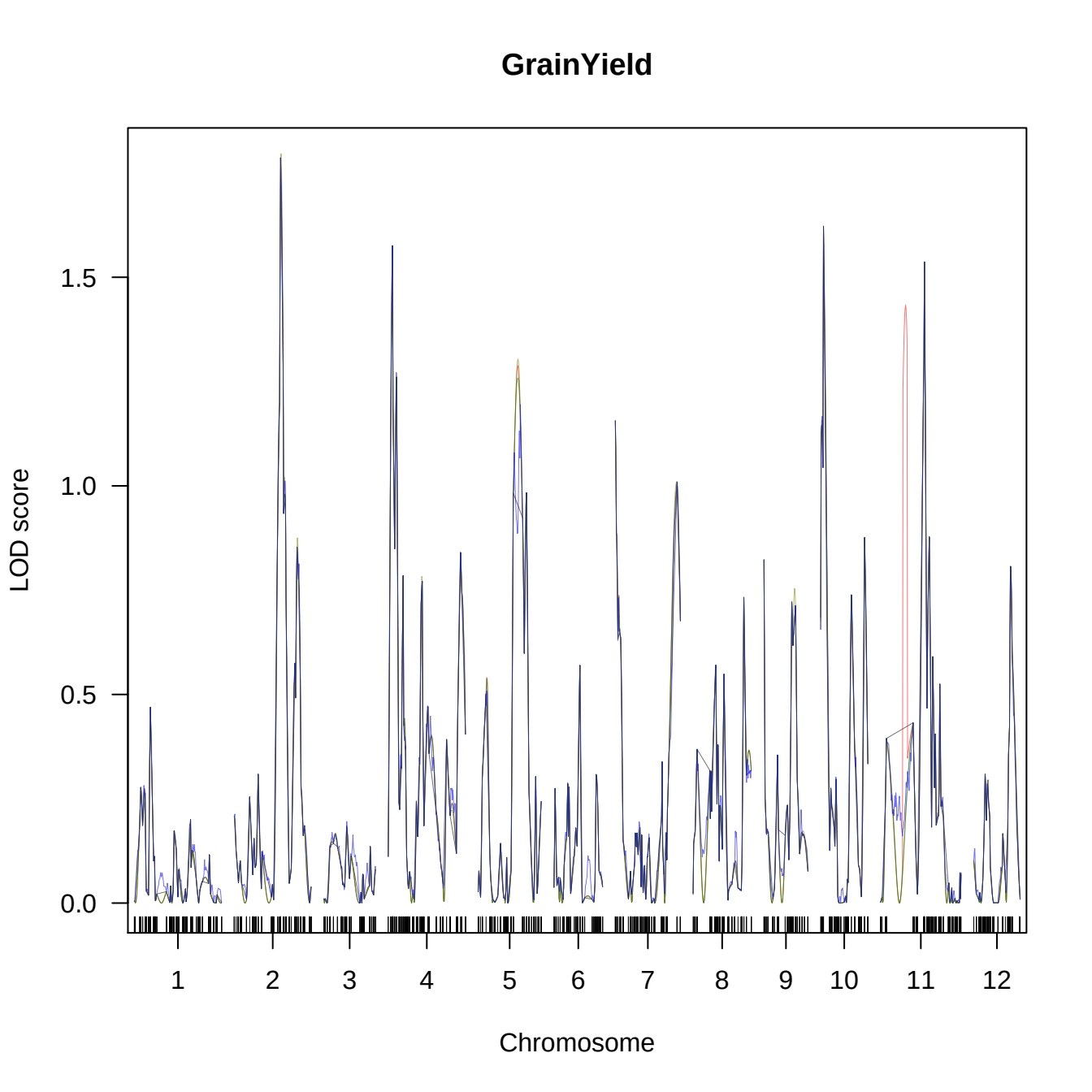

Tillers
LOD score (MR)
0.0
0.2
0.4
0.6
0.8
0
20
40
60
80
Chr12 Map position (cM)

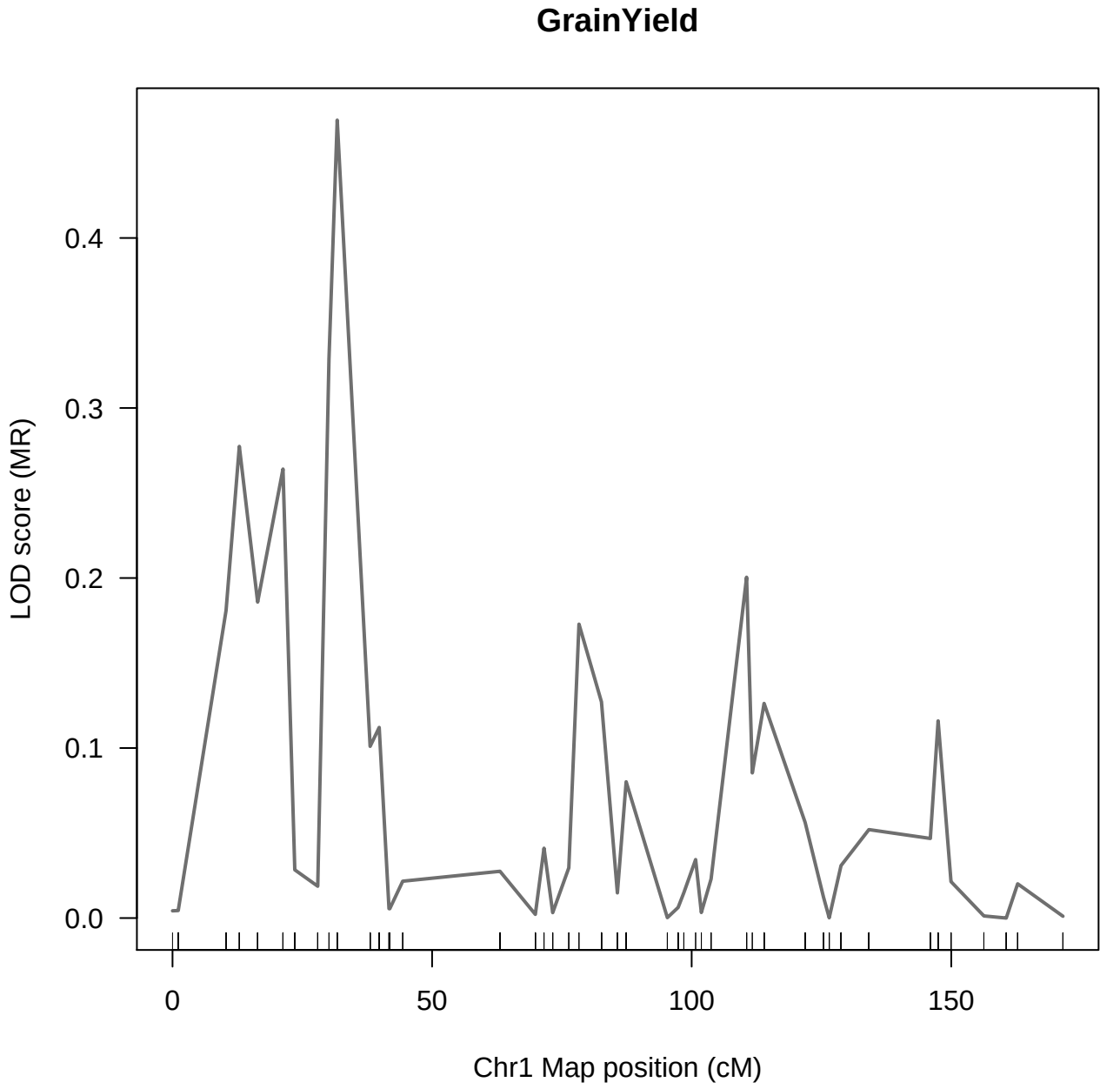

Tillers
LOD score (EM)
0.0
0.2
0.4
0.6
0.8
0
20
40
60
80
Chr12 Map position (cM)

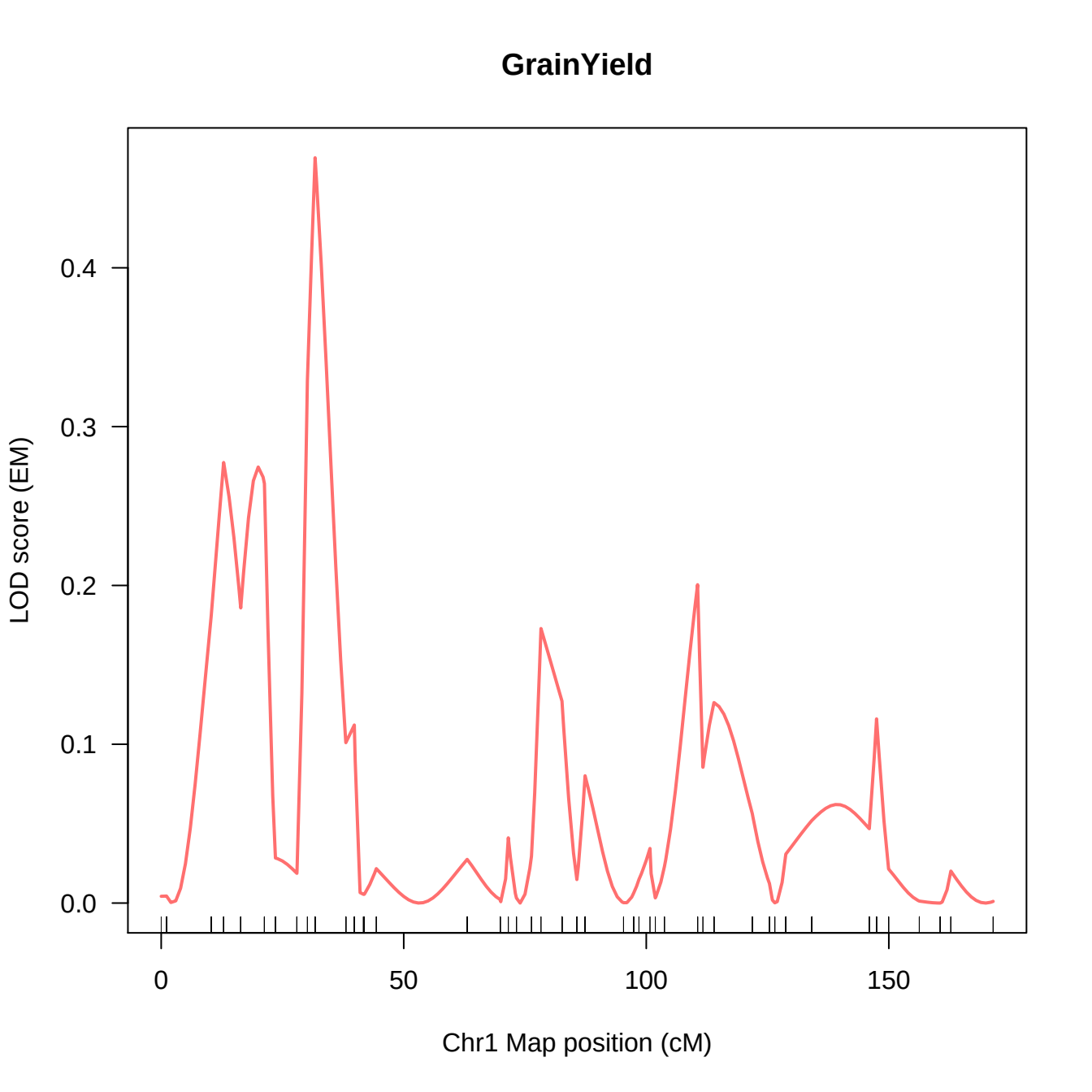

Tillers
LOD score
0.0
0.2
0.4
0.6
0.8
0
20
40
60
80
Chr12 Map position (cM)

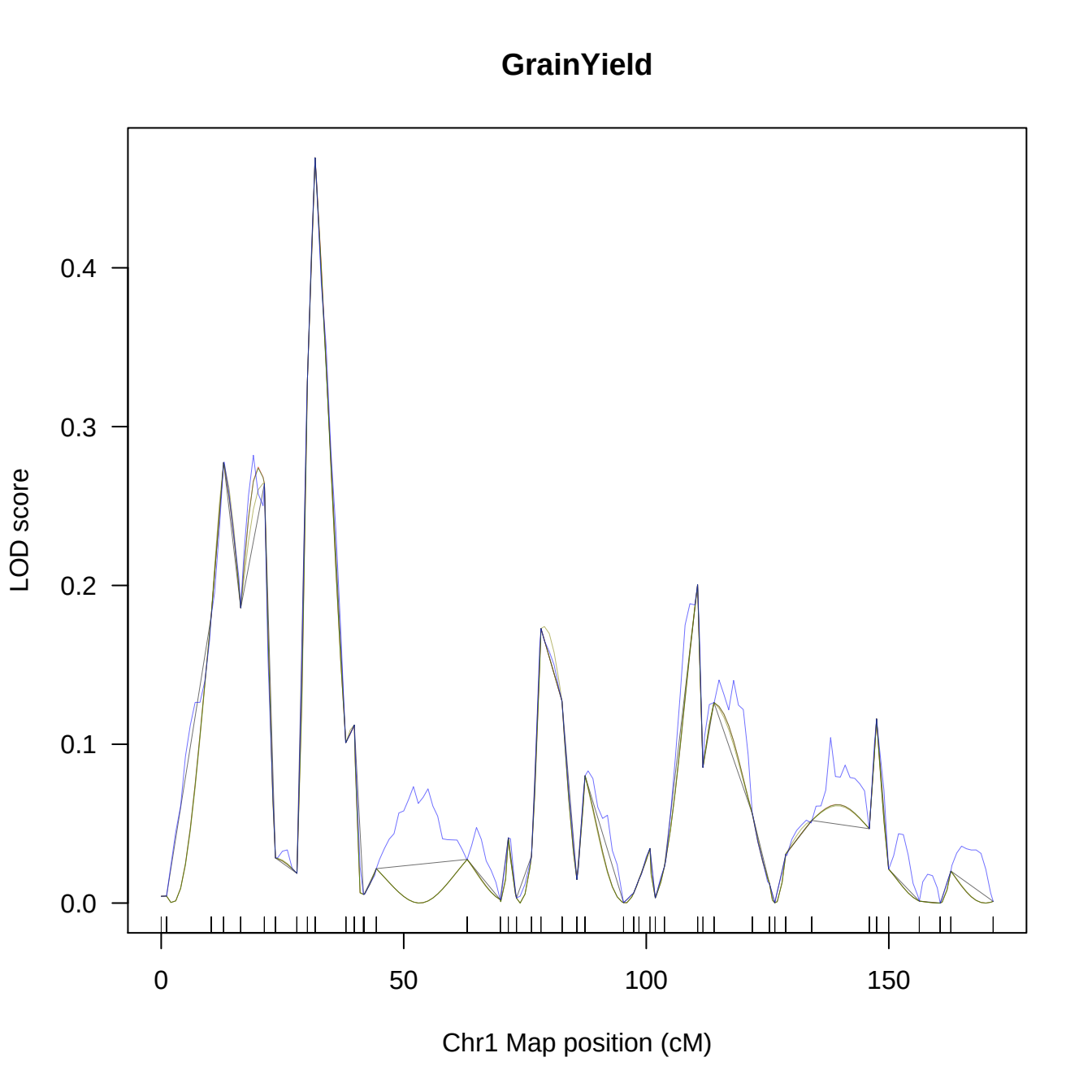

GrainYield
LOD score (MR)
0.0
0.5
1.0
1.5
1
2
3
4
5
6
7
8
9
10
11
12
Chromosome

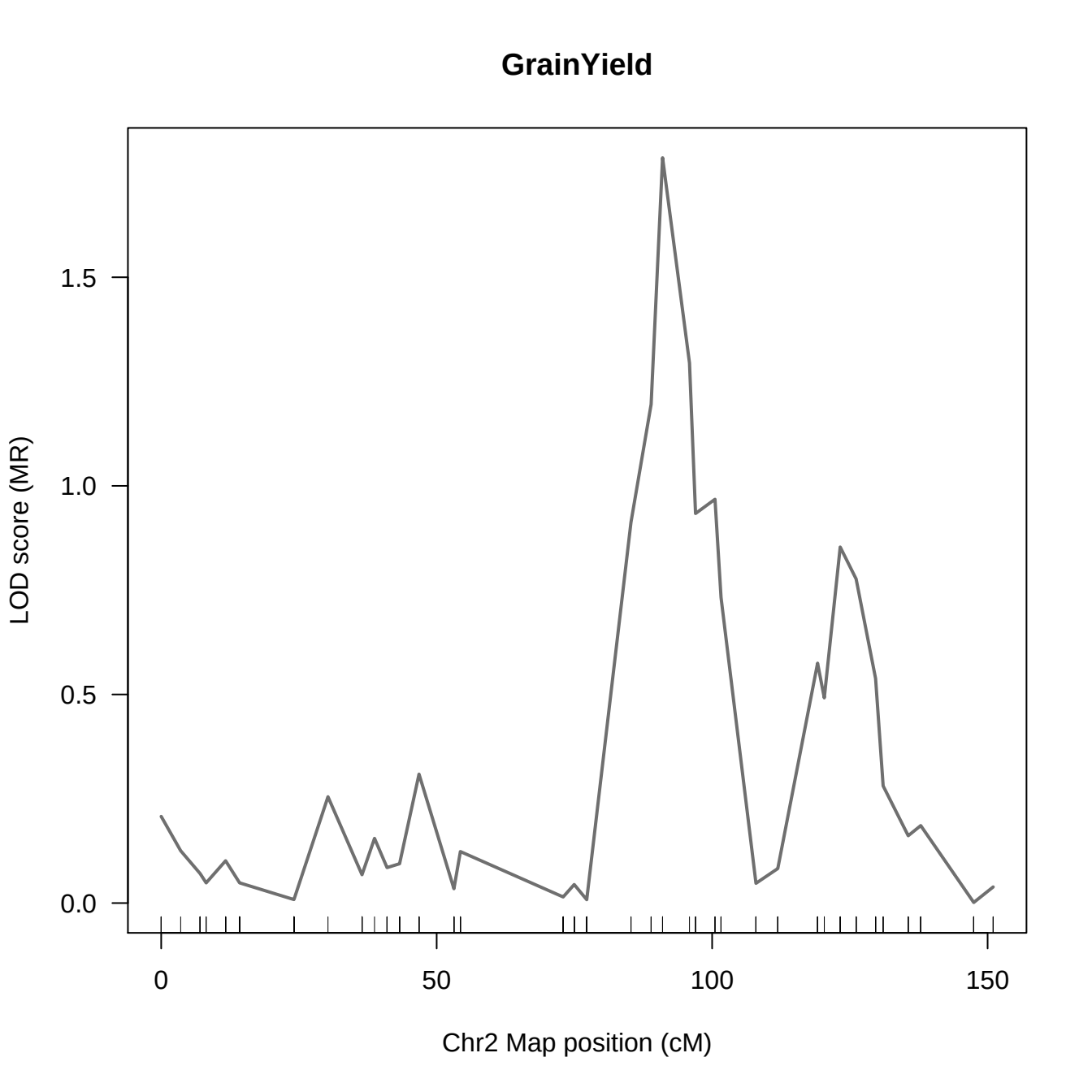

GrainYield
LOD score (EM)
0.0
0.5
1.0
1.5
1
2
3
4
5
6
7
8
9
10
11
12
Chromosome

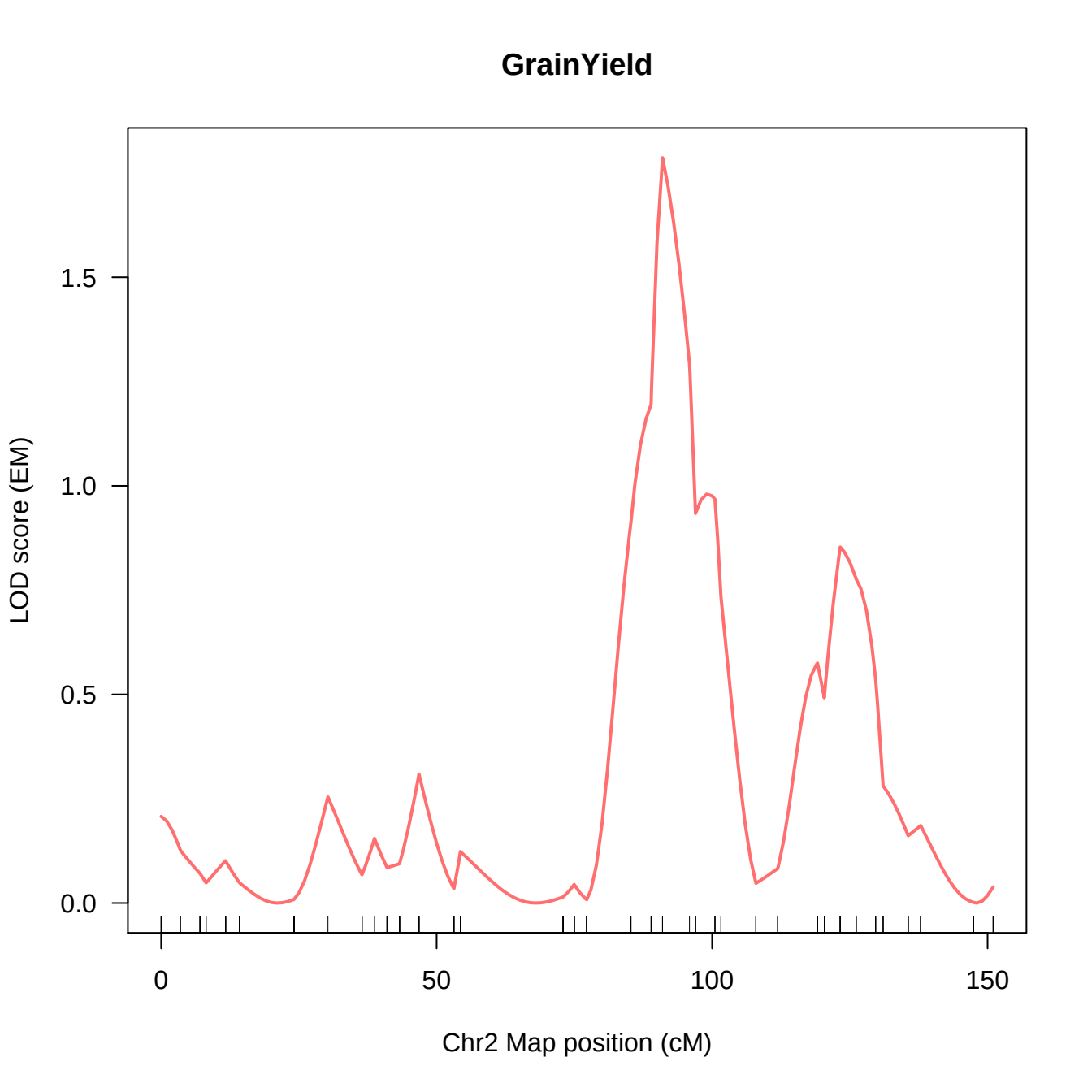

GrainYield
LOD score
0.0
0.5
1.0
1.5
1
2
3
4
5
6
7
8
9
10
11
12
Chromosome

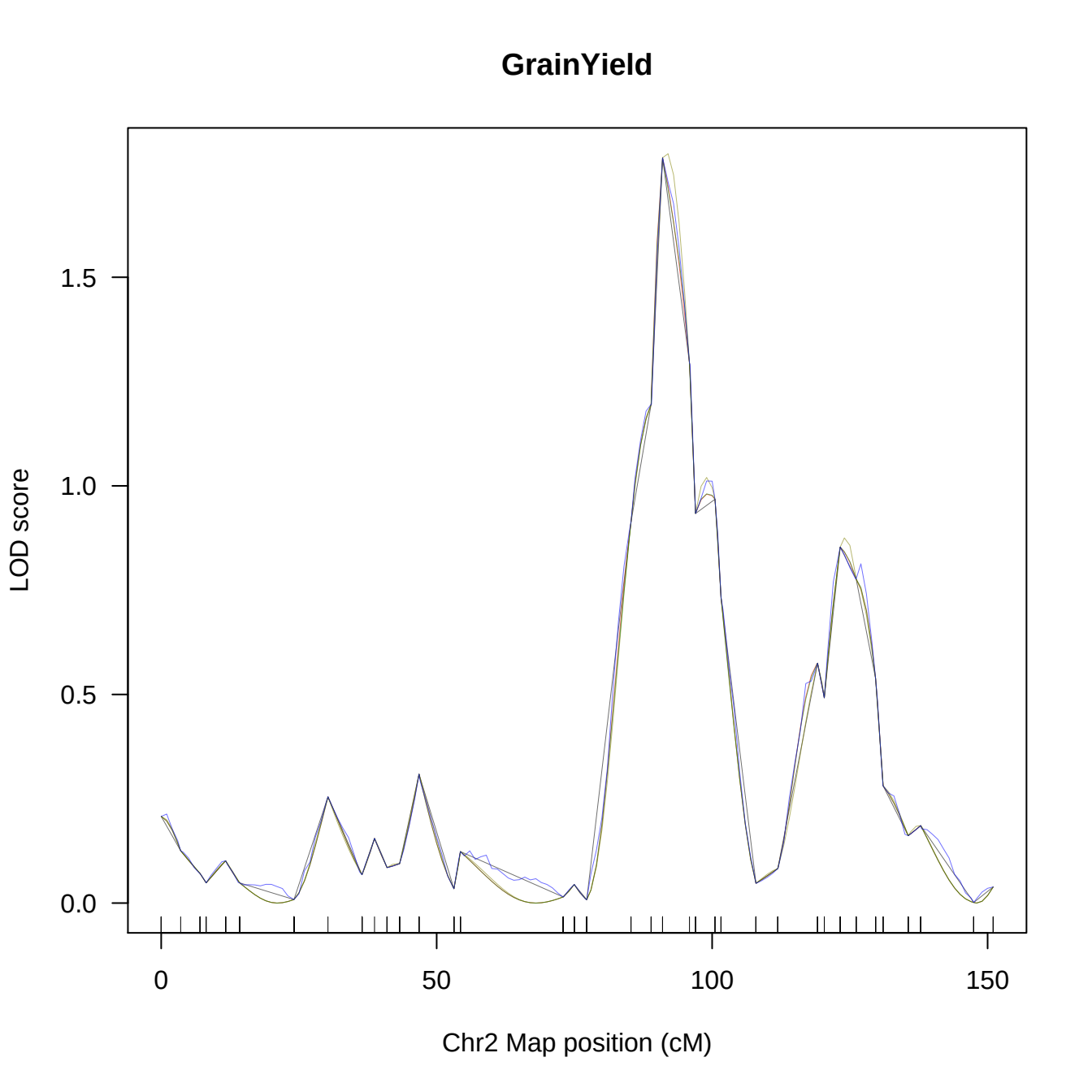

GrainYield
LOD score (MR)
0.0
0.1
0.2
0.3
0.4
0
50
100
150
Chr1 Map position (cM)

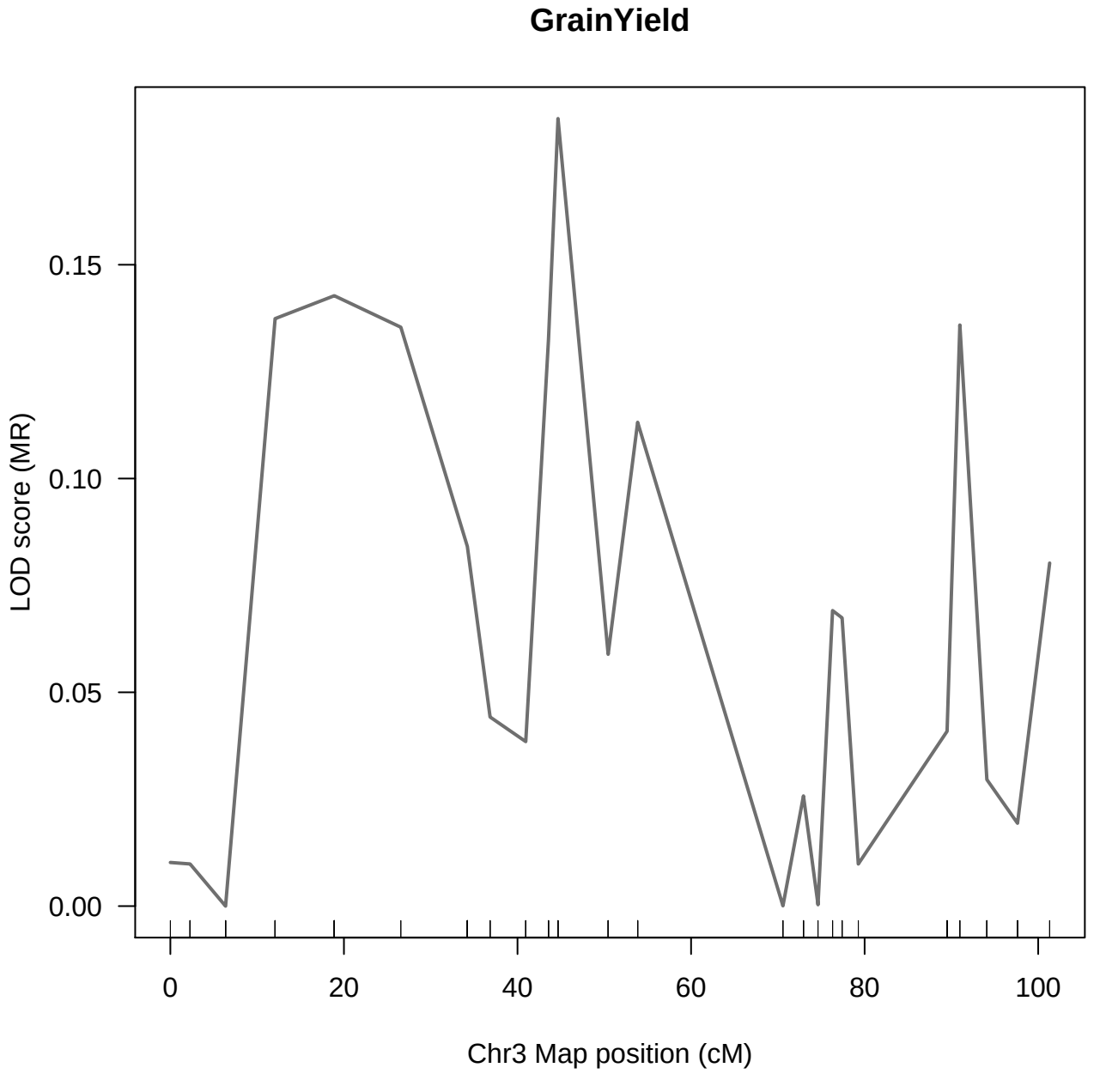

GrainYield
LOD score (EM)
0.0
0.1
0.2
0.3
0.4
0
50
100
150
Chr1 Map position (cM)

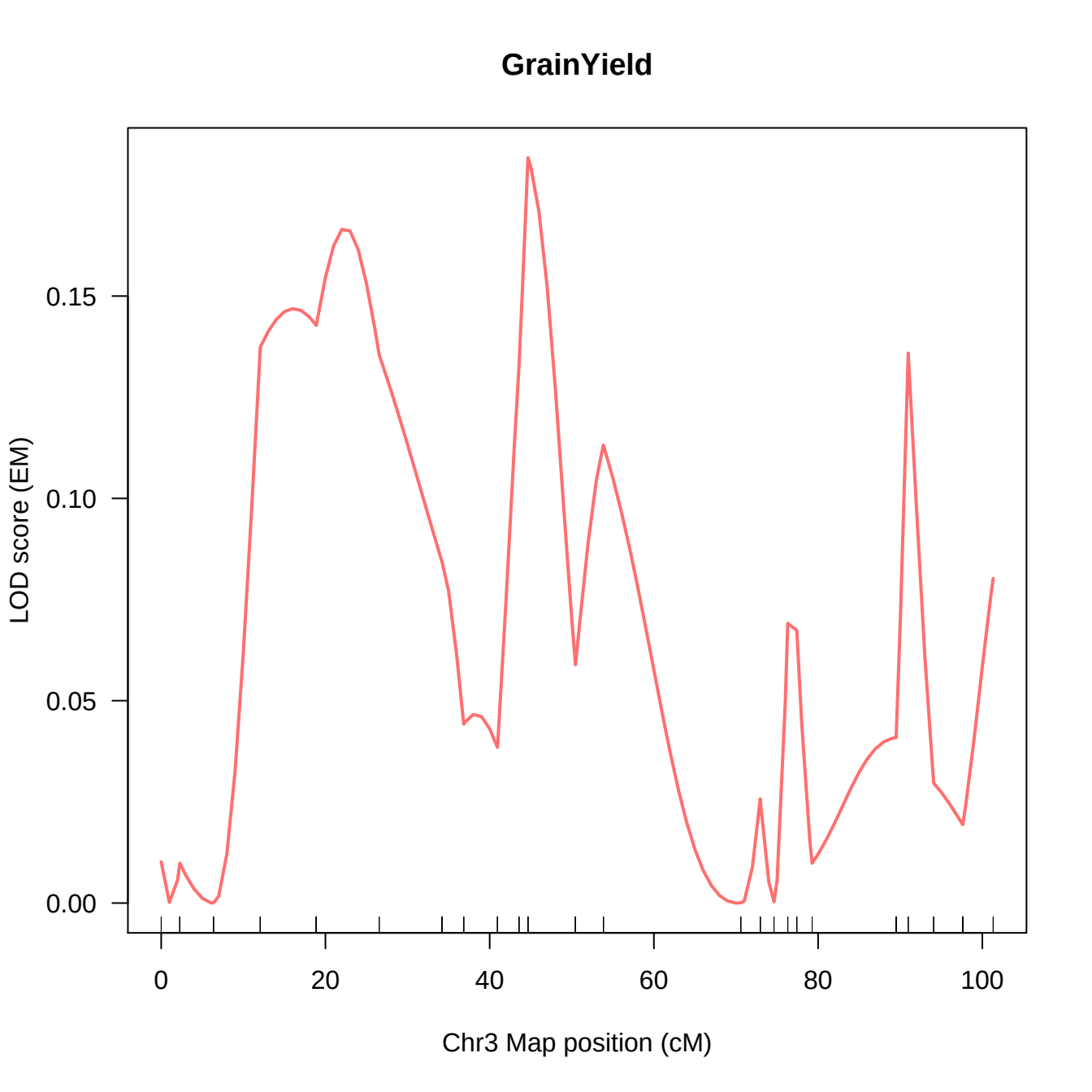

GrainYield
LOD score
0.0
0.1
0.2
0.3
0.4
0
50
100
150
Chr1 Map position (cM)

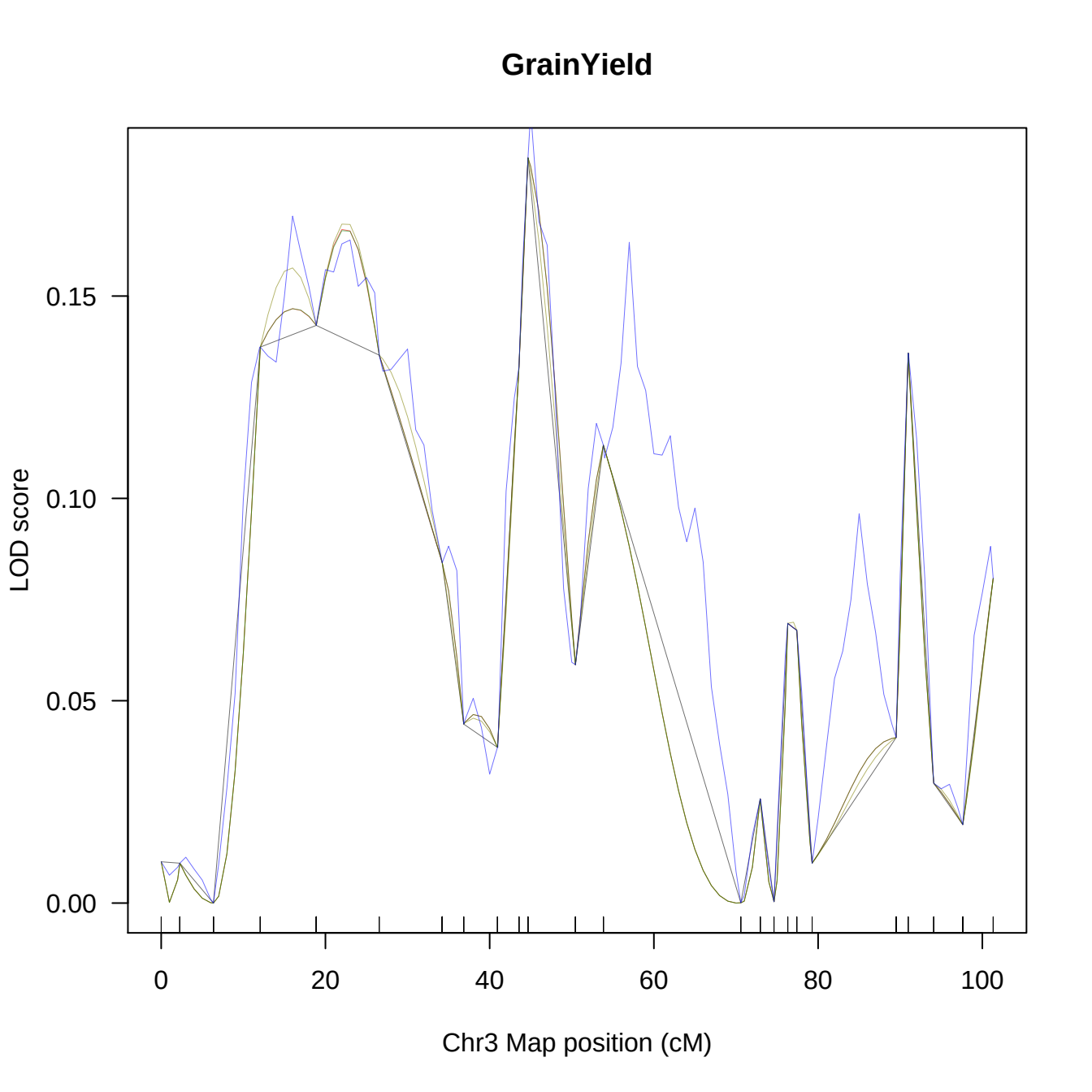

GrainYield
LOD score (MR)
0.0
0.5
1.0
1.5
0
50
100
150
Chr2 Map position (cM)

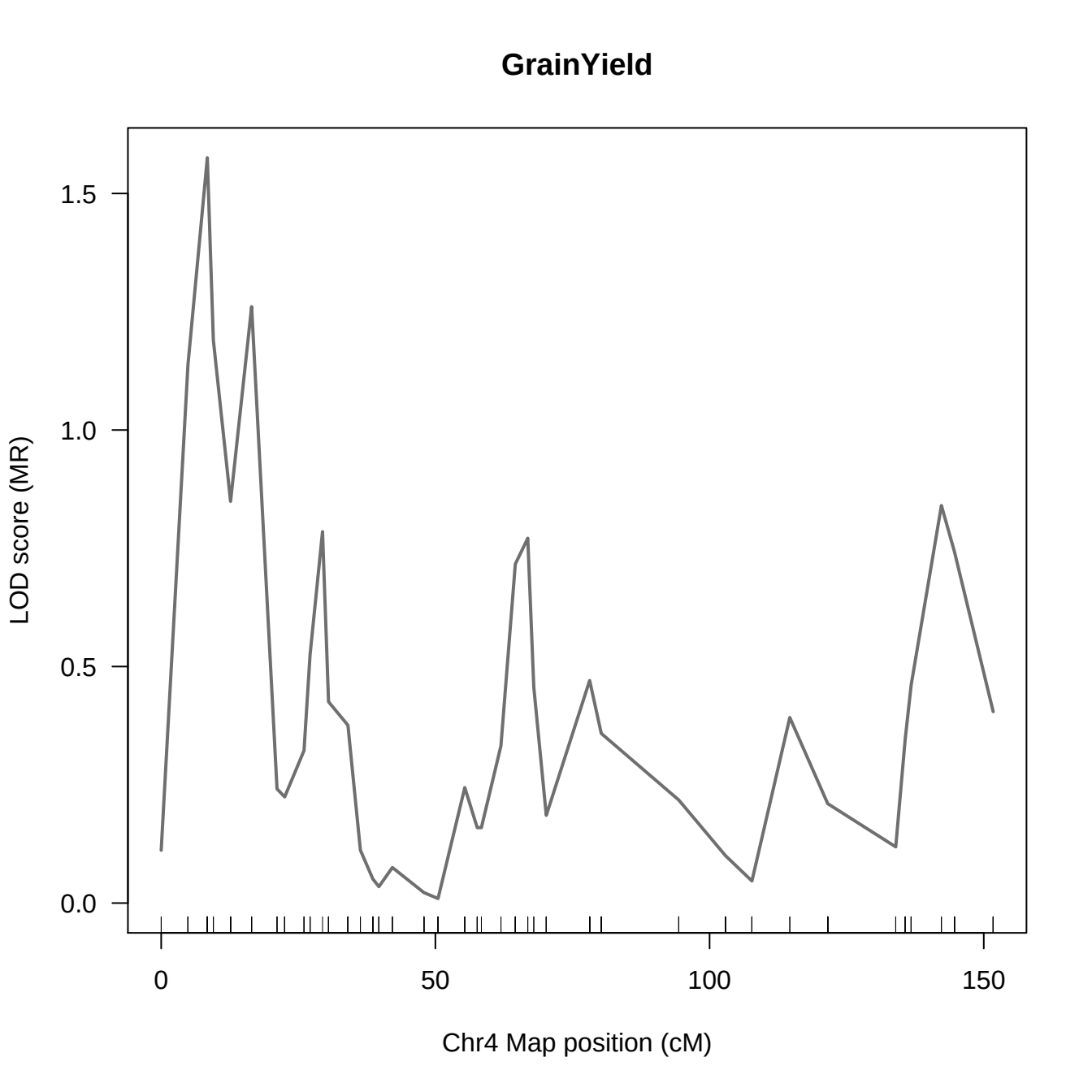

GrainYield
LOD score (EM)
0.0
0.5
1.0
1.5
0
50
100
150
Chr2 Map position (cM)

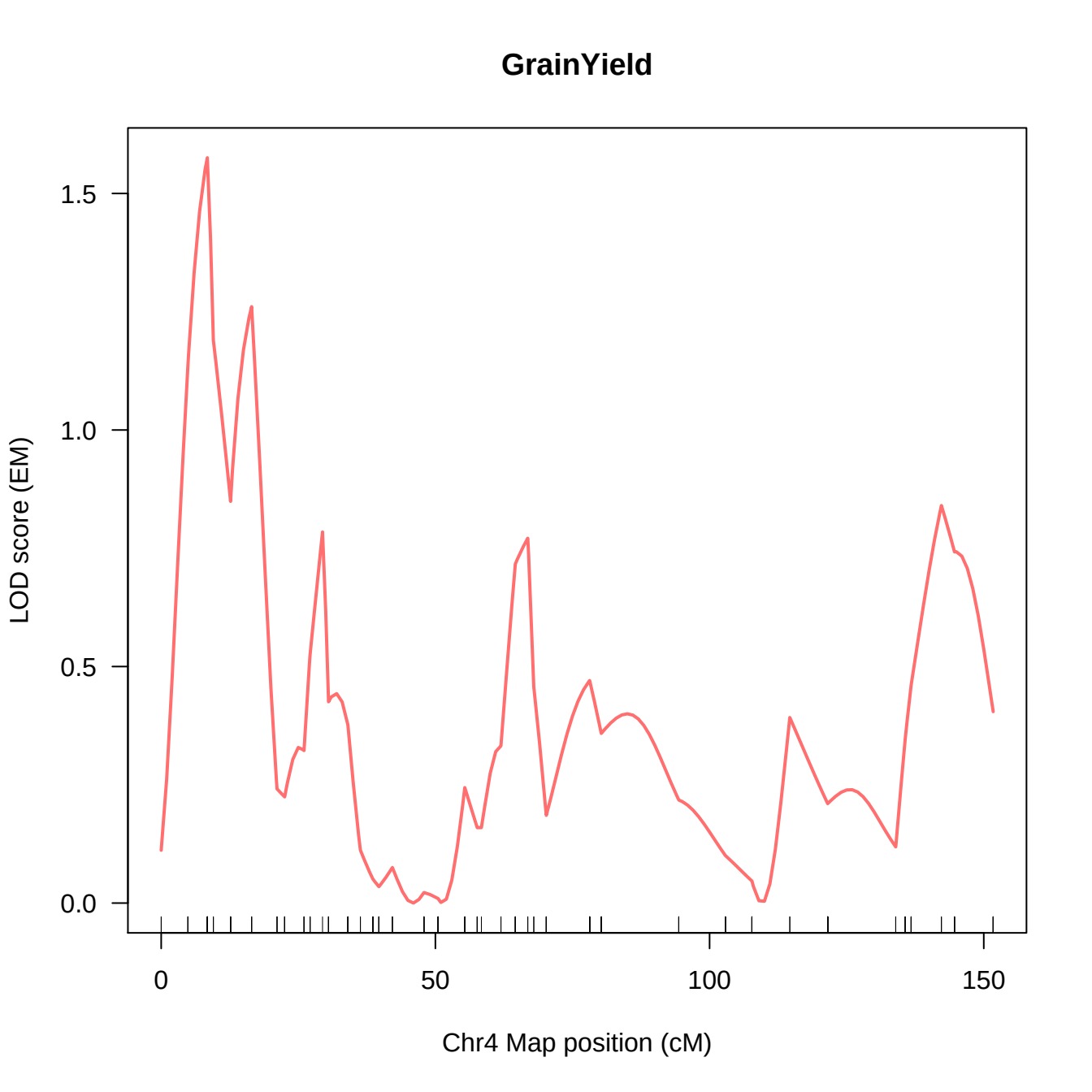

GrainYield
LOD score
0.0
0.5
1.0
1.5
0
50
100
150
Chr2 Map position (cM)

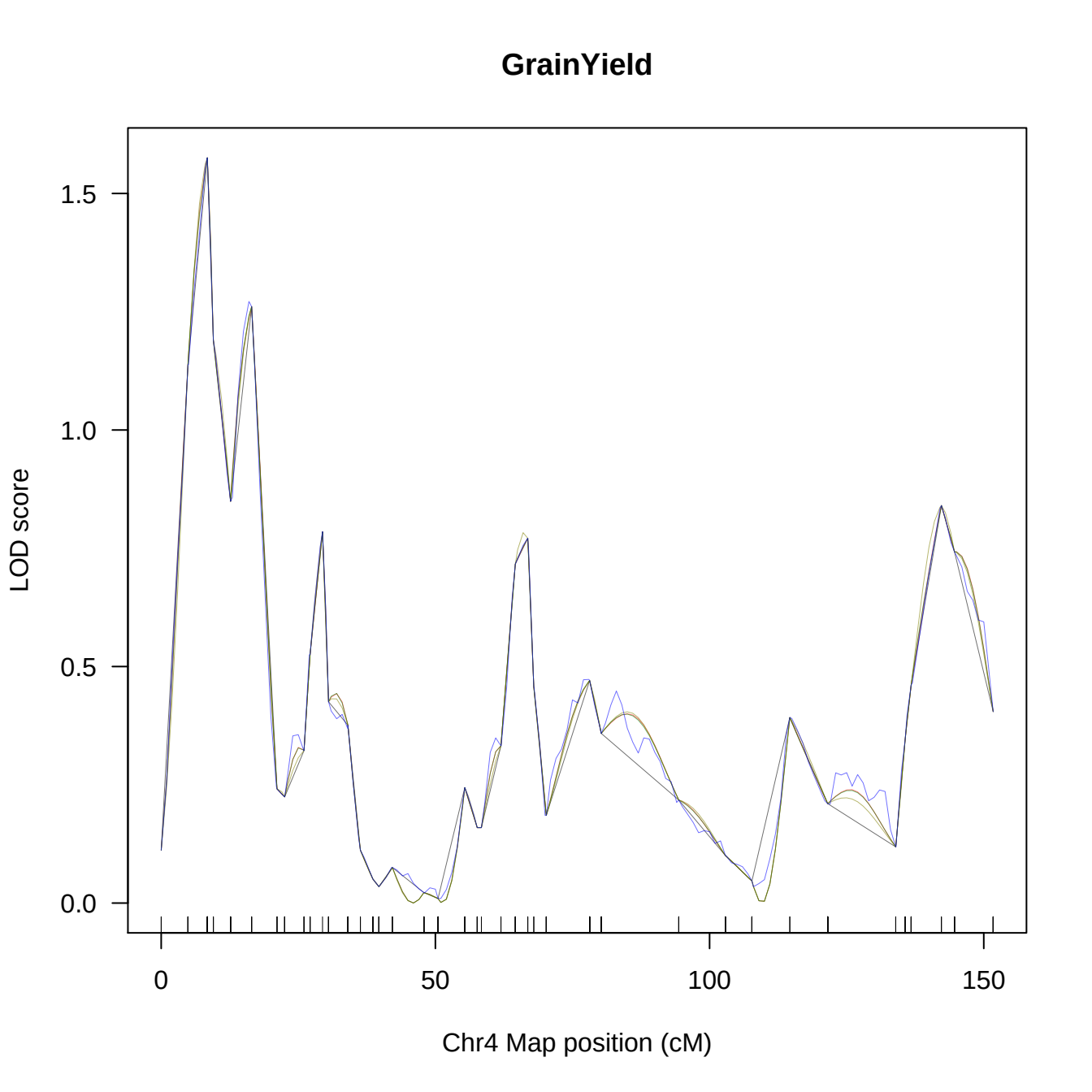

GrainYield
LOD score (MR)
0.15
0.10
0.05
0.00
0
20
40
60
80
100
Chr3 Map position (cM)

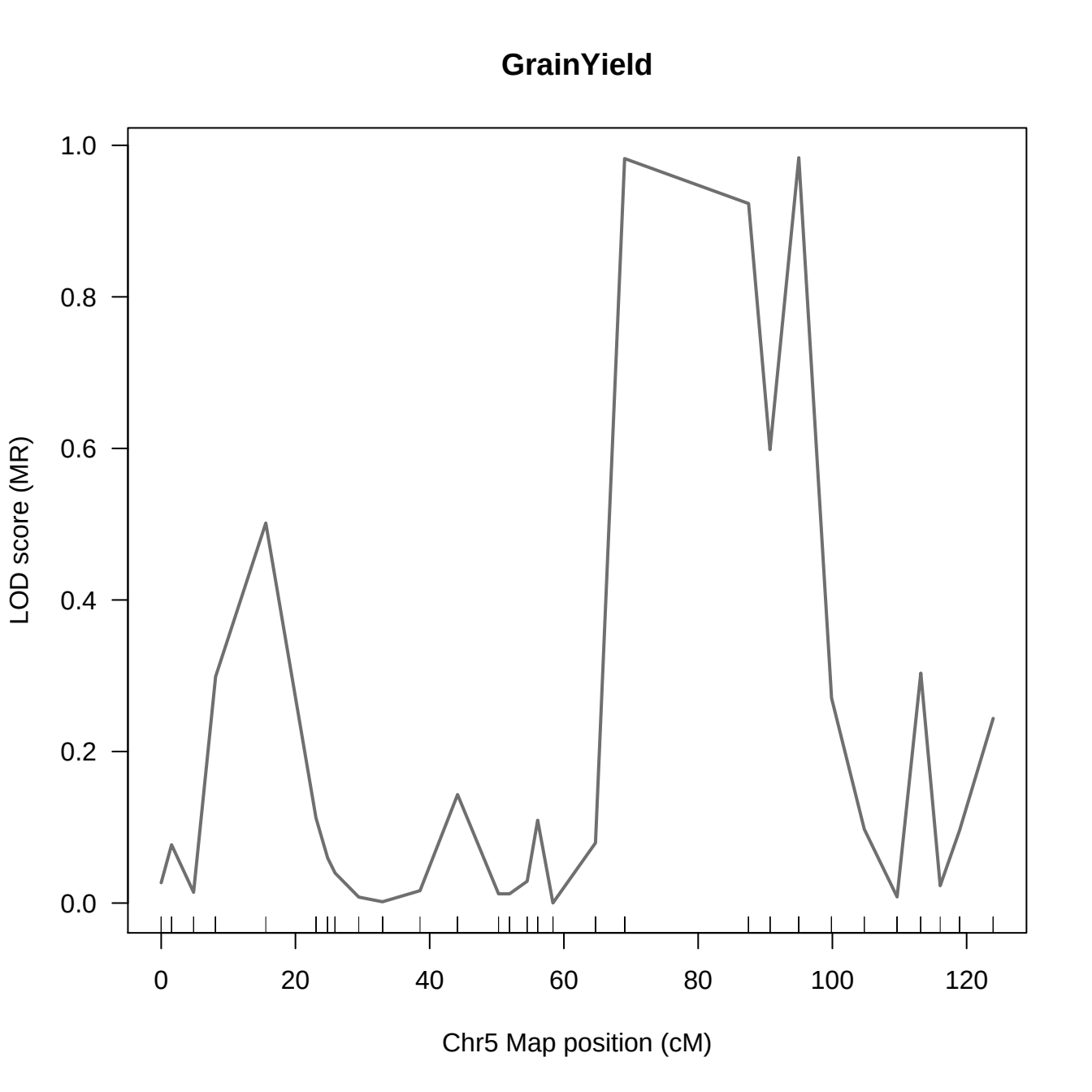

GrainYield
LOD score (EM)
0.00
0.05
0.10
0.15
0
20
40
60
80
100
Chr3 Map position (cM)

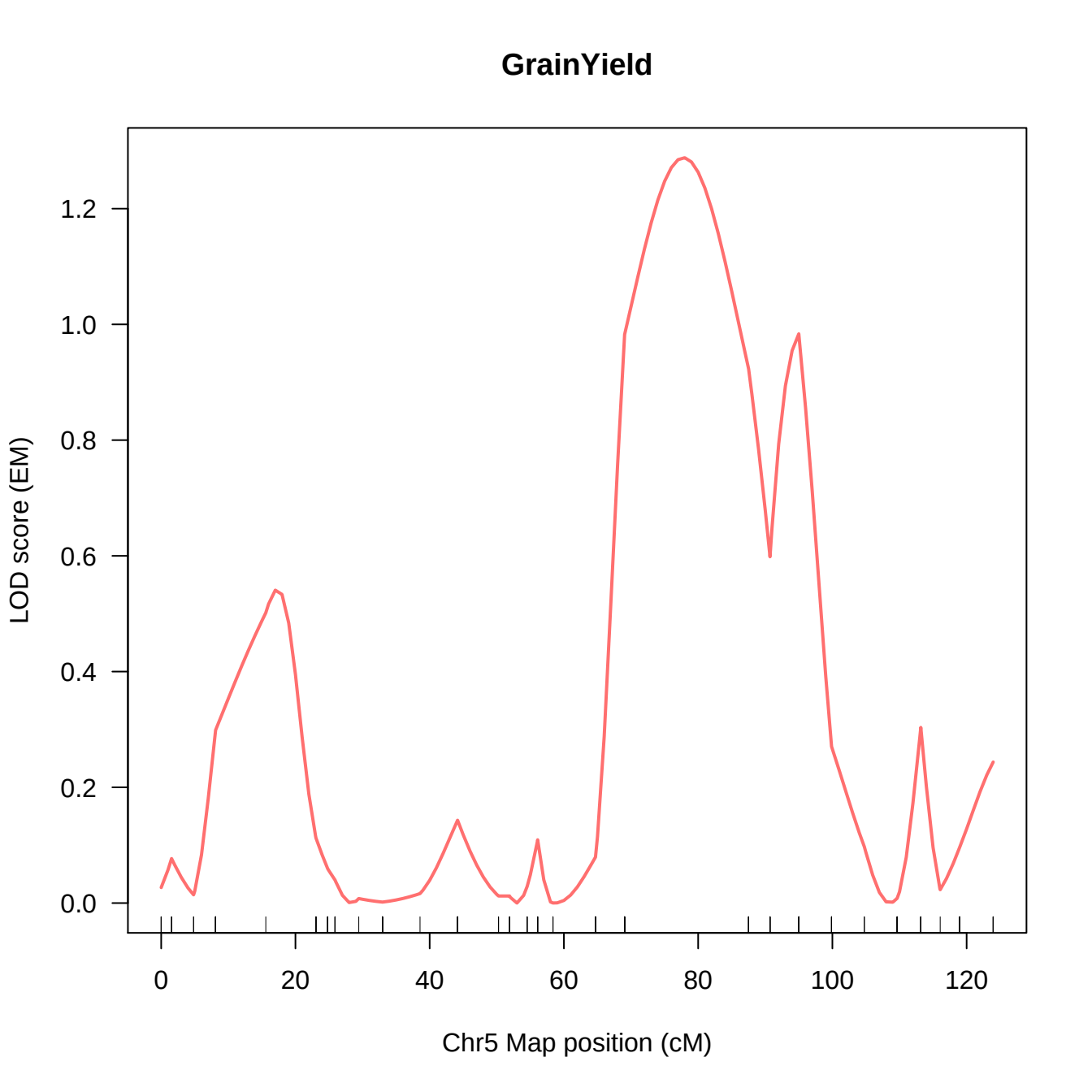

GrainYield
LOD score
0.00
0.05
0.10
0.15
0
20
40
60
80
100
Chr3 Map position (cM)

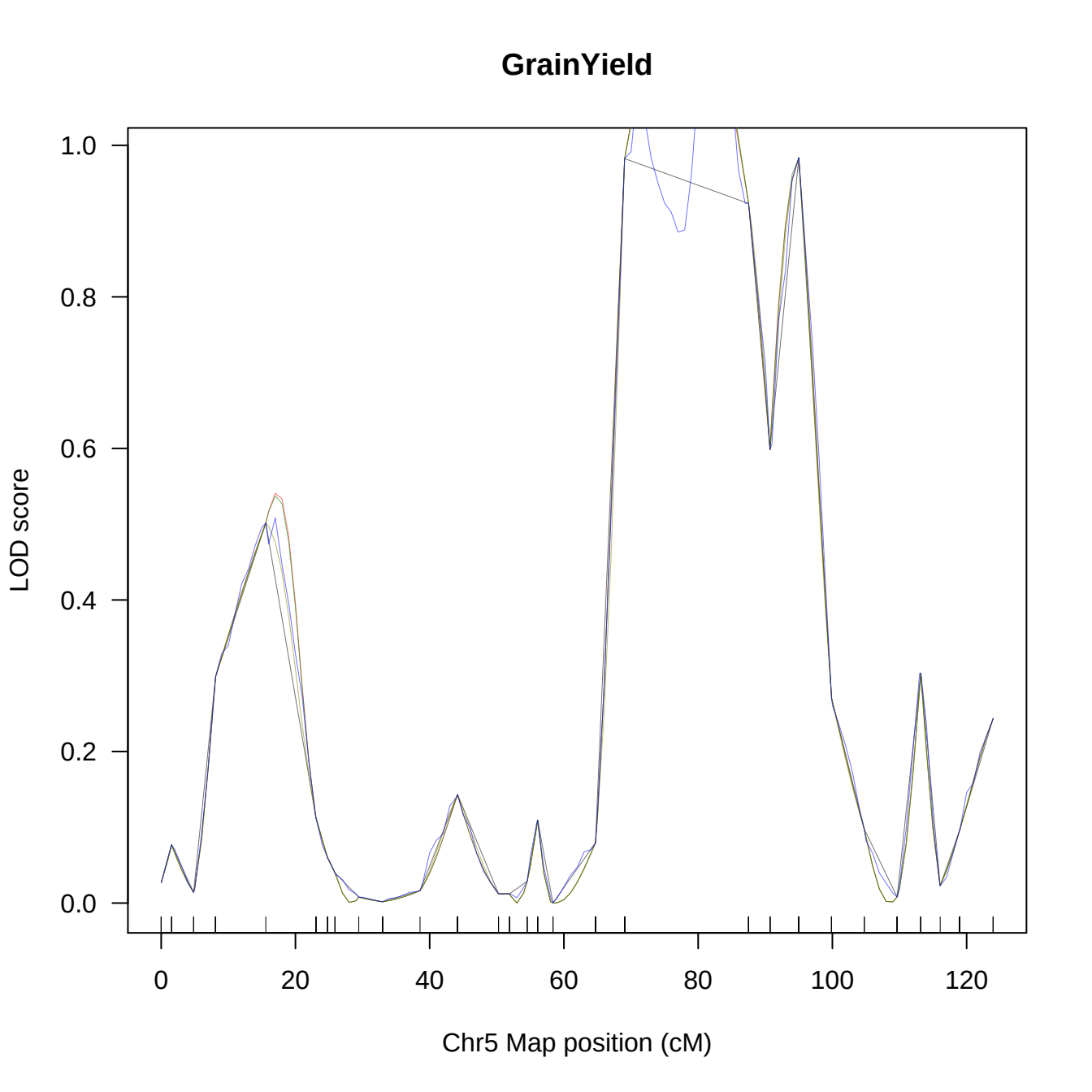

GrainYield
LOD score (MR)
1.5
1.0
0.5
0.0
0
50
100
150
Chr4 Map position (cM)

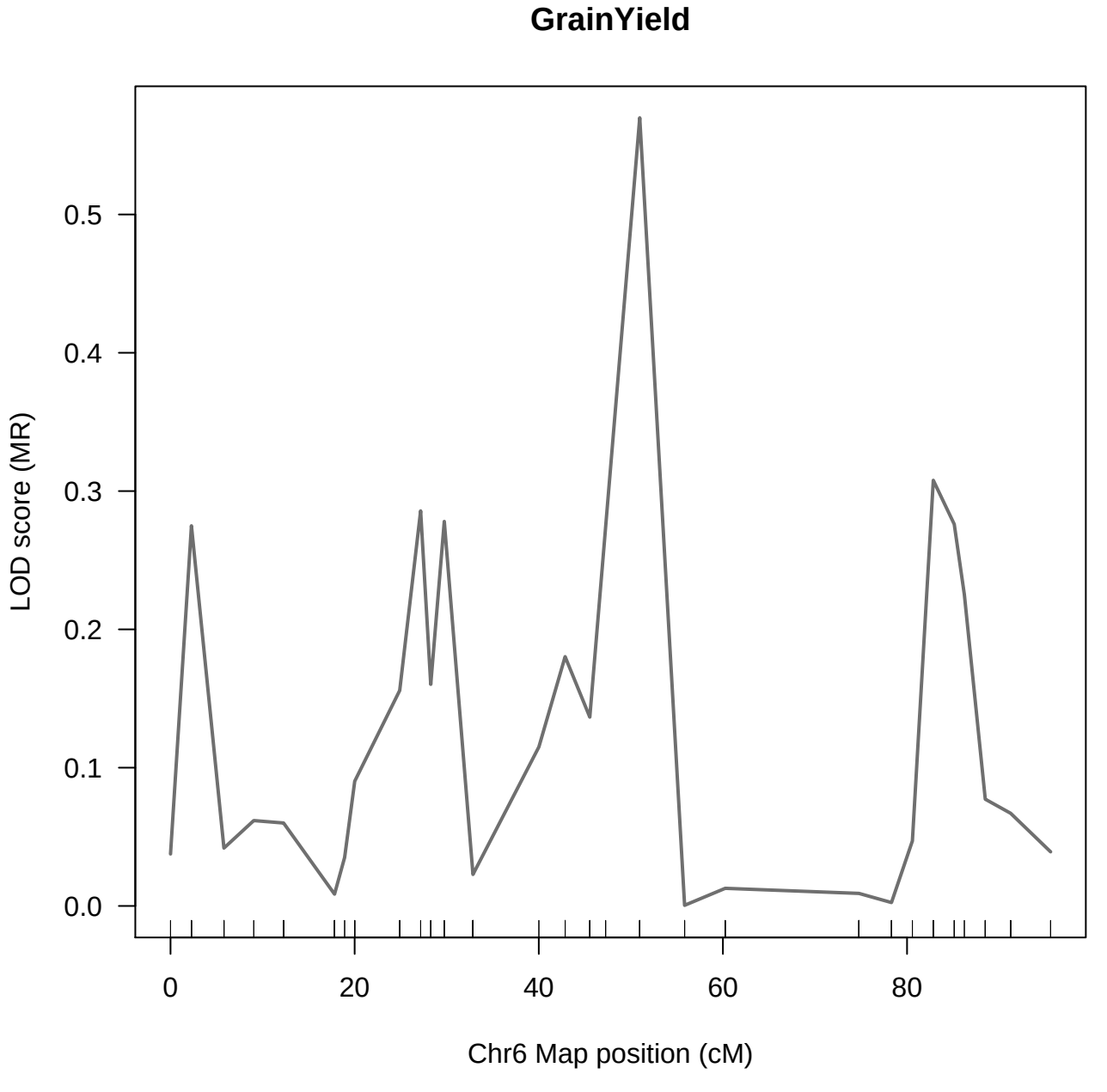

GrainYield
LOD score (EM)
1.5
1.0
0.5
0.0
0
50
100
150
Chr4 Map position (cM)

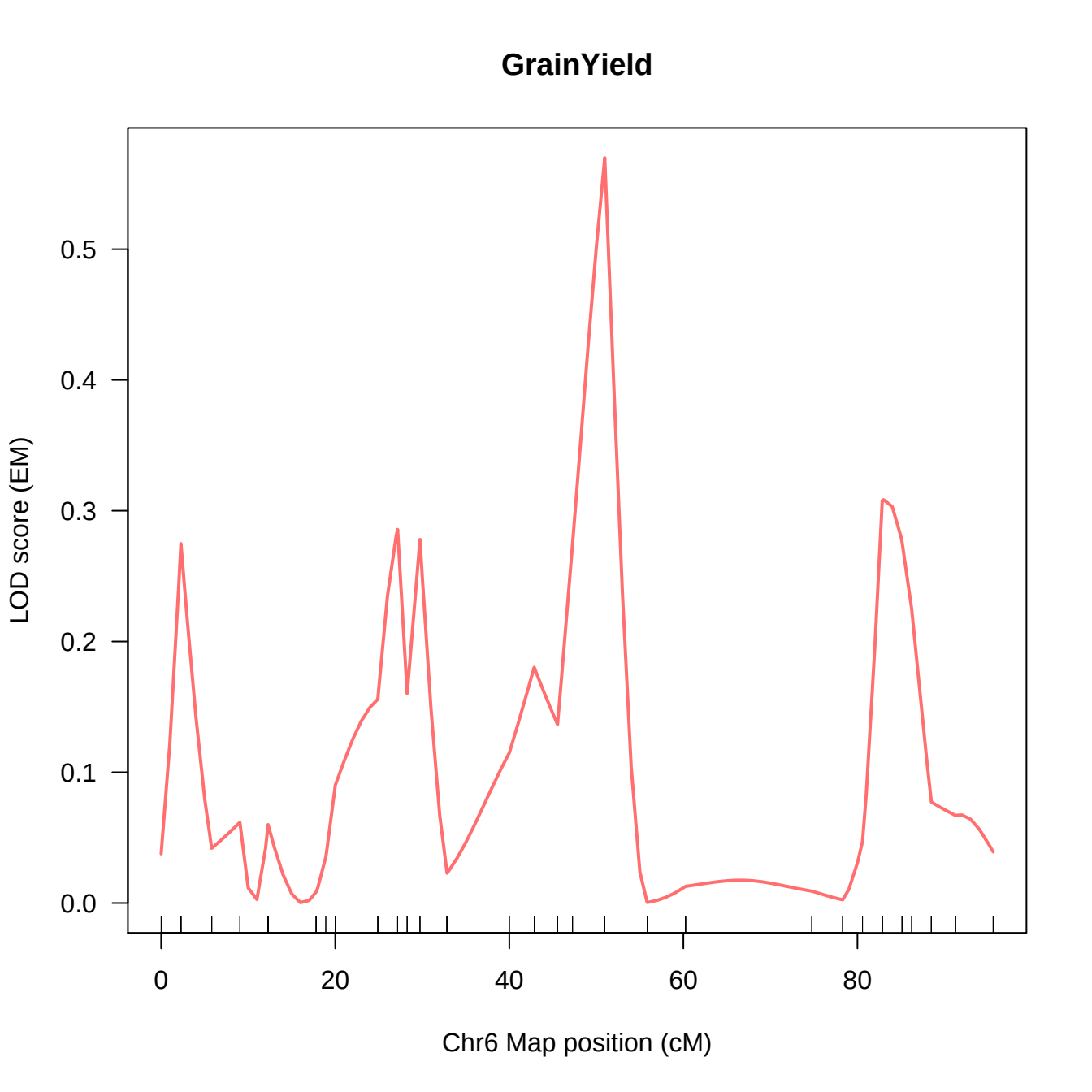

GrainYield
LOD score
1.5
1.0
0.5
0.0
0
50
100
150
Chr4 Map position (cM)

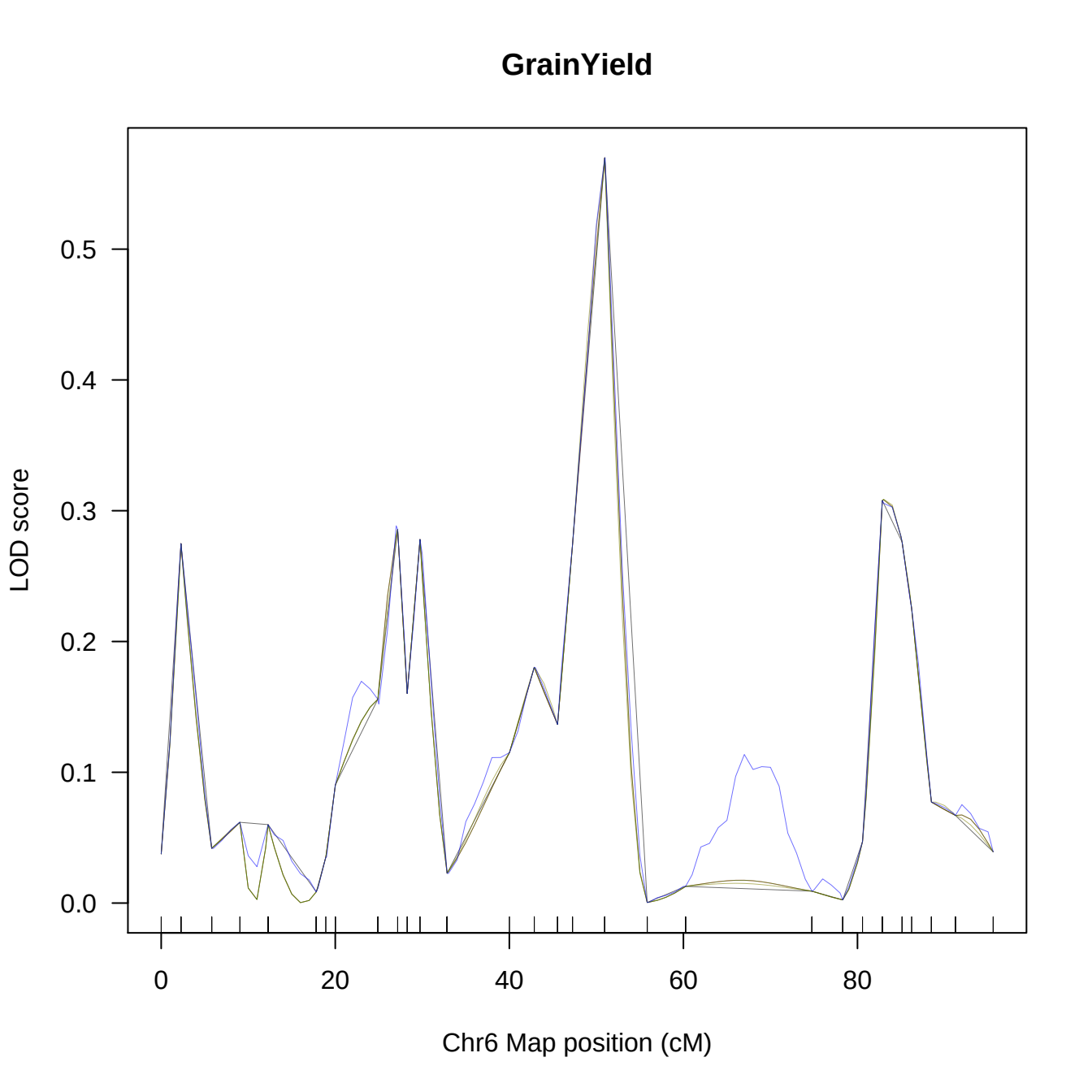

GrainYield
1.0
0.8
0.6
0.4
0.2
0.0
LOD score (MR)
0
20
40
60
80
100
120
Chr5 Map position (cM)

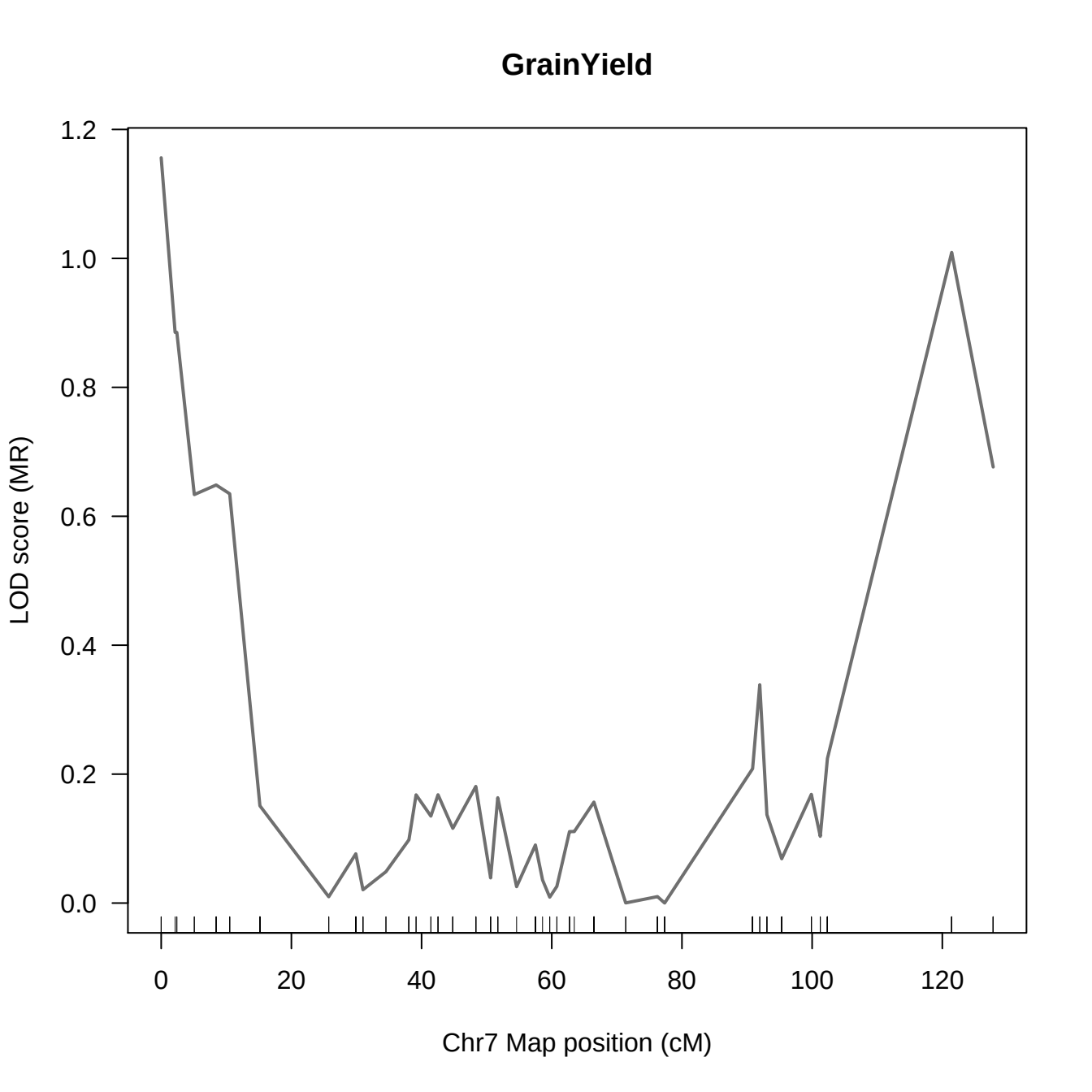

GrainYield
LOD score (EM)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
20
40
60
80
100
120
Chr5 Map position (cM)

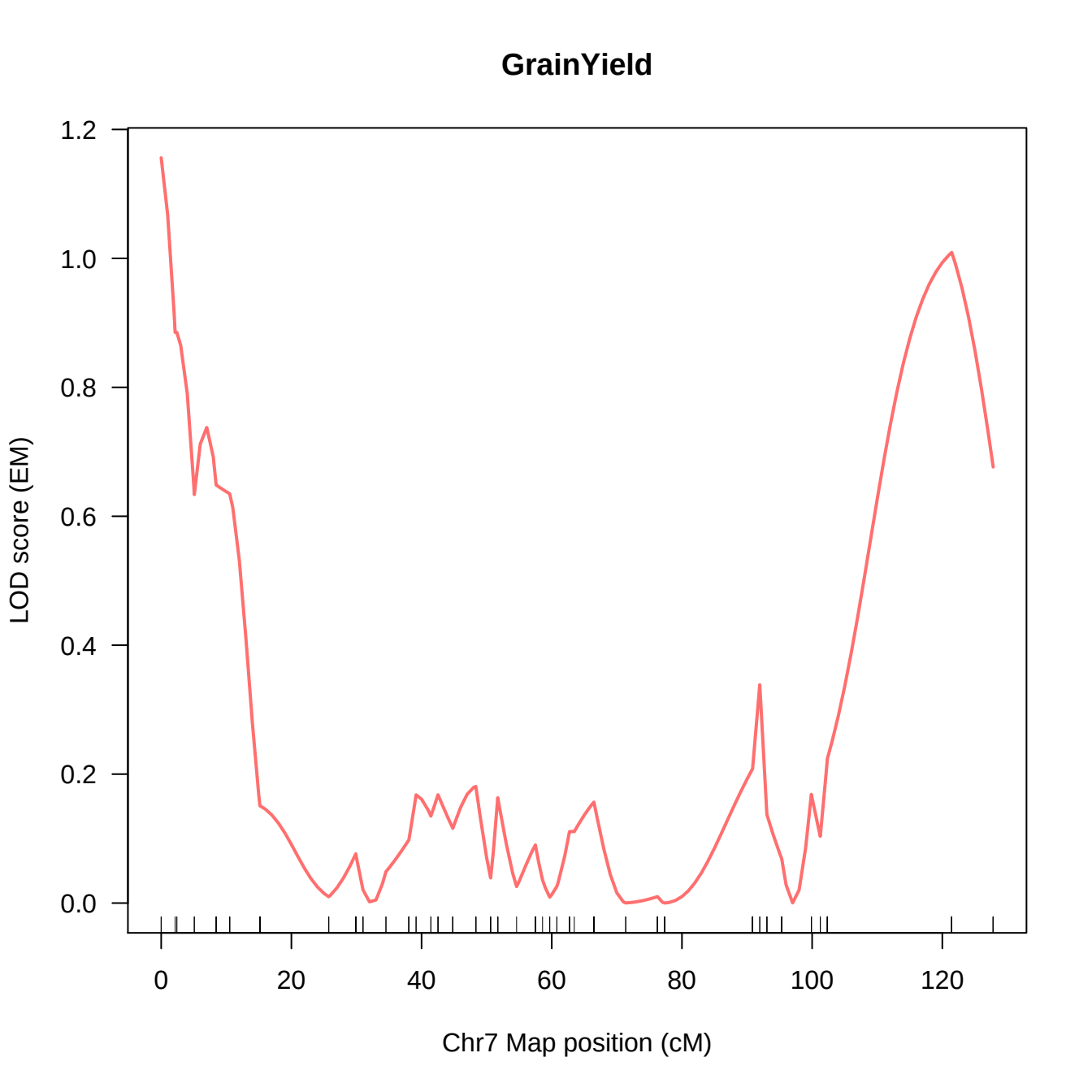

GrainYield
LOD score
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
100
120
Chr5 Map position (cM)

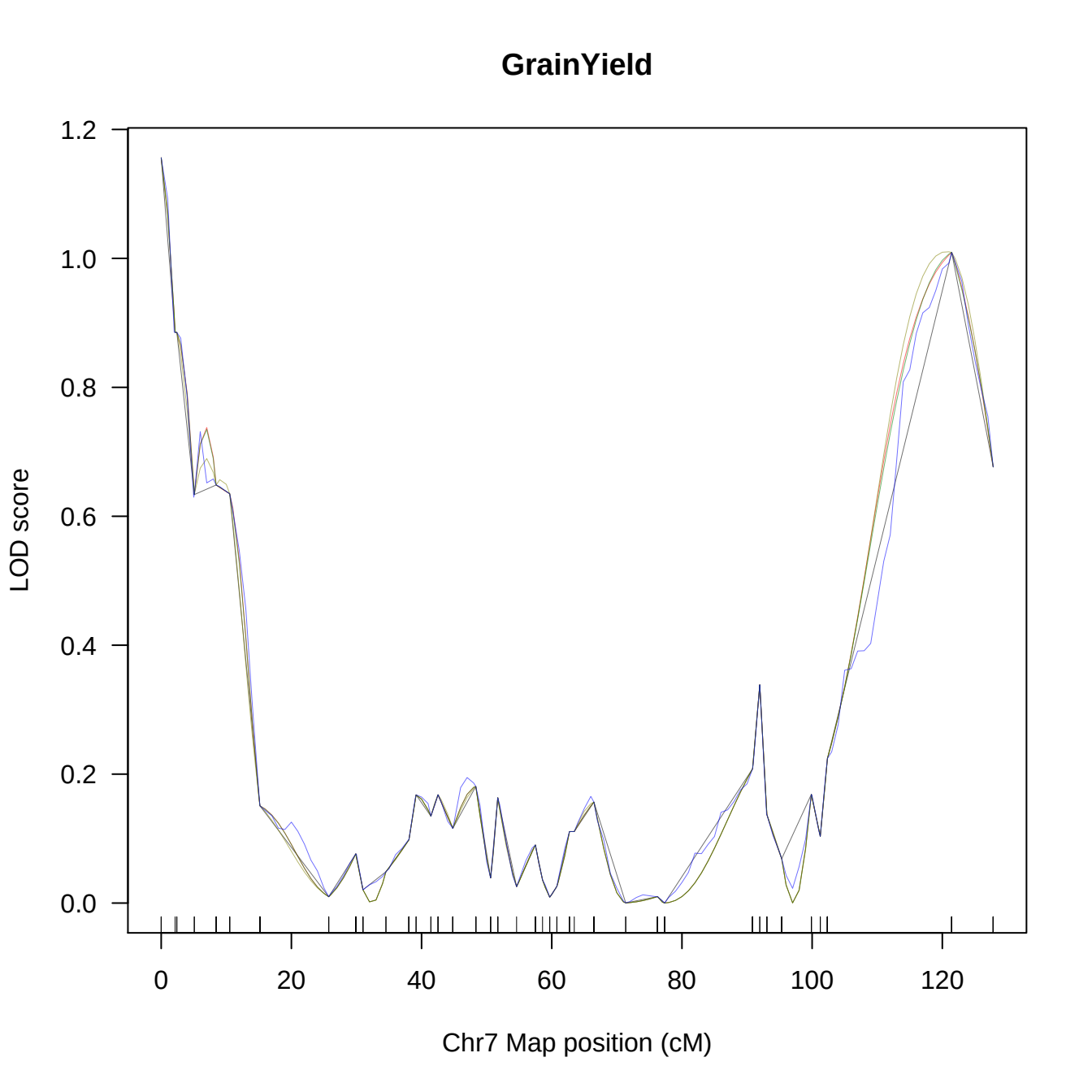

GrainYield
LOD score (MR)
0.0
0.1
0.2
0.3
0.4
0.5
0
20
40
60
80
Chr6 Map position (cM)

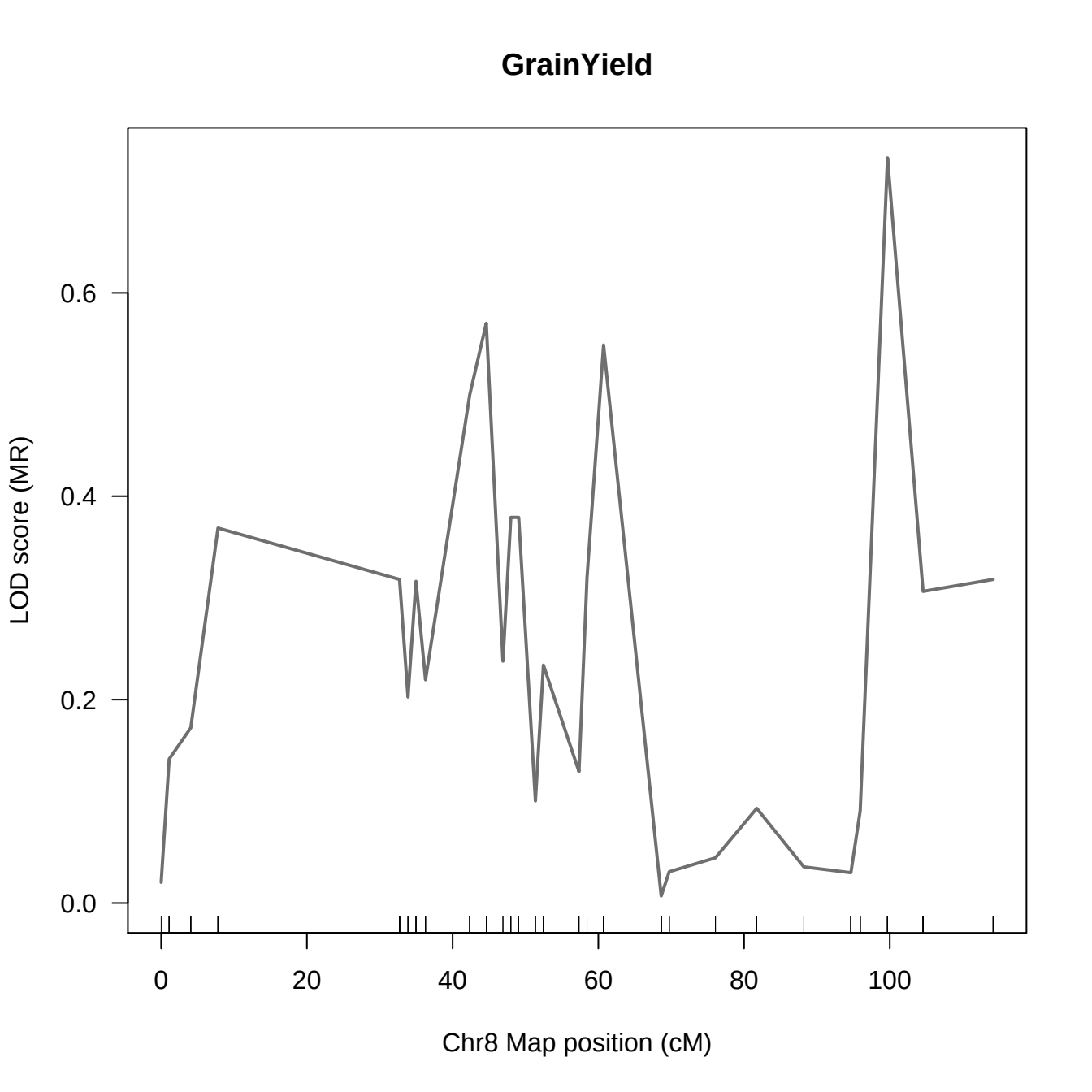

GrainYield
LOD score (EM)
0.0
0.1
0.2
0.3
0.4
0.5
0
20
40
60
80
Chr6 Map position (cM)

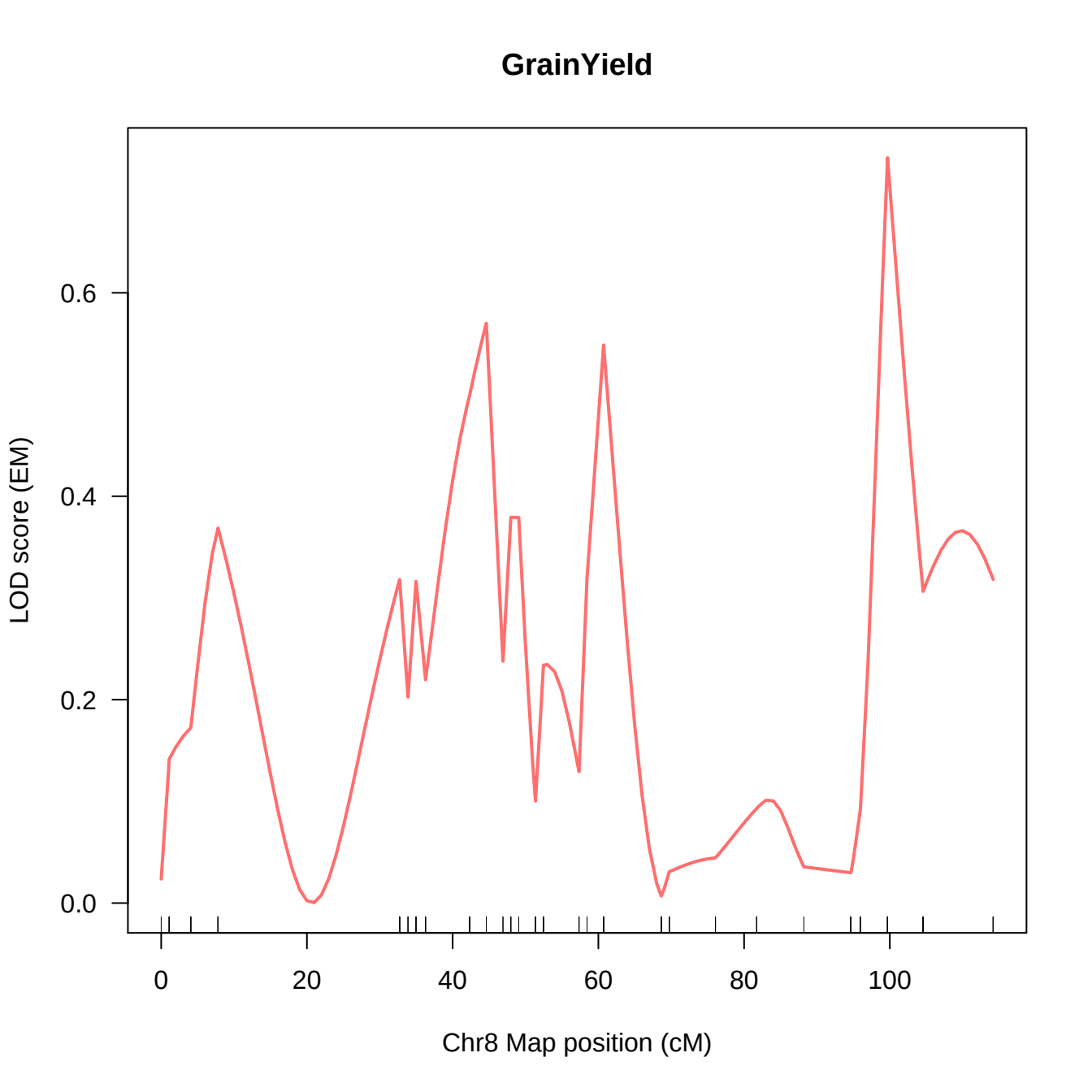

GrainYield
LOD score
0.0
0.1
0.2
0.3
0.4
0.5
0
20
40
60
80
Chr6 Map position (cM)

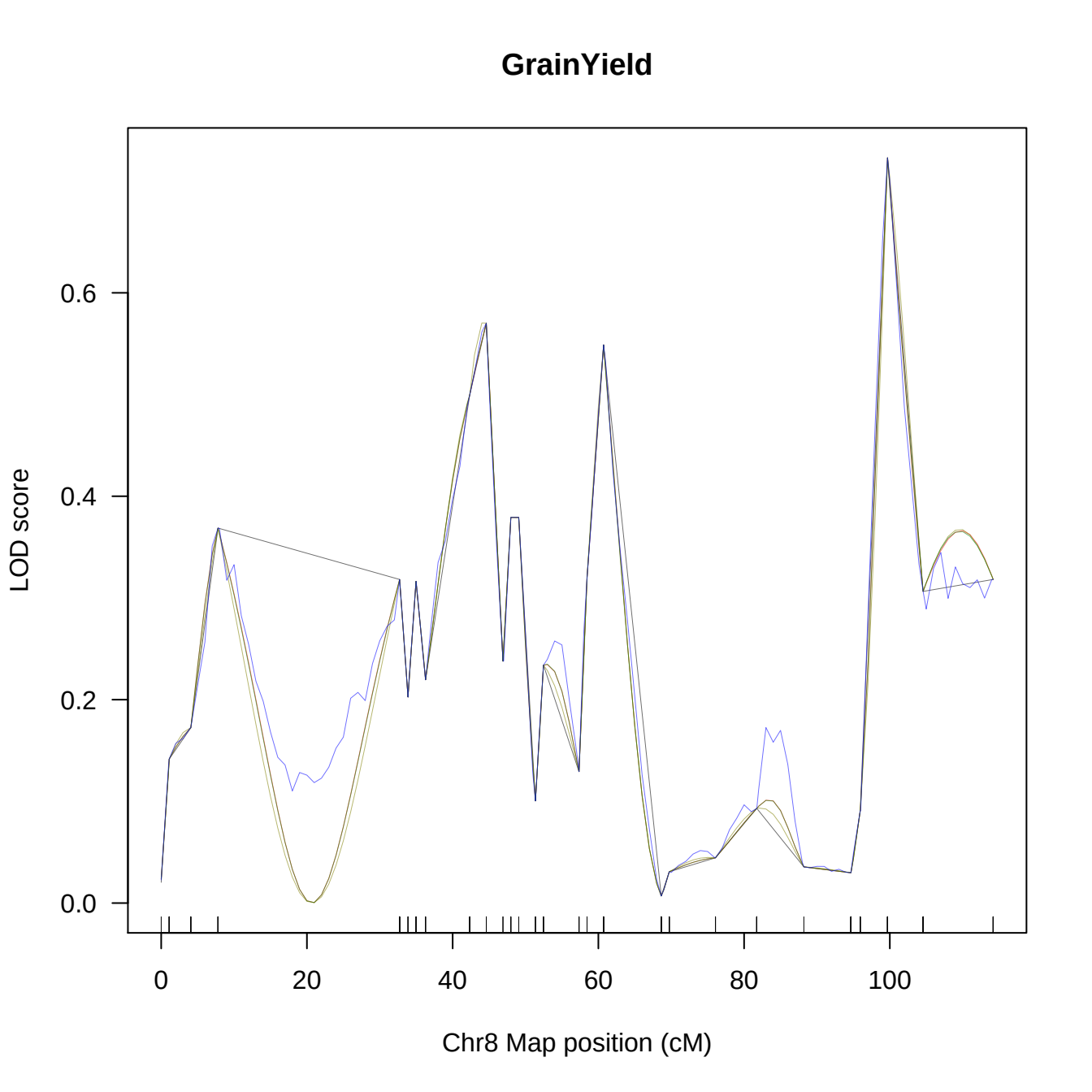

GrainYield
LOD score (MR)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
100
120
Chr7 Map position (cM)

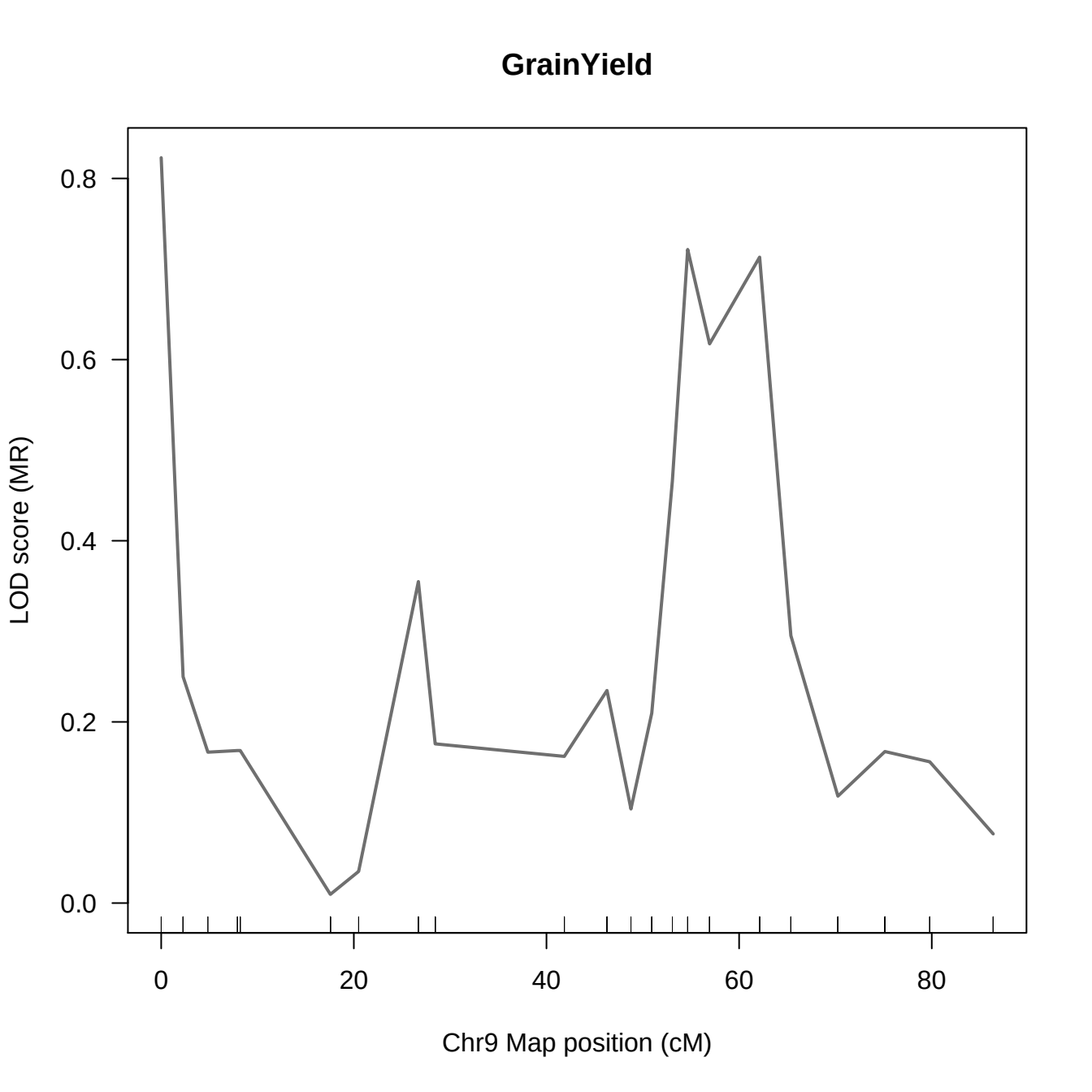

GrainYield
LOD score (EM)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
100
120
Chr7 Map position (cM)

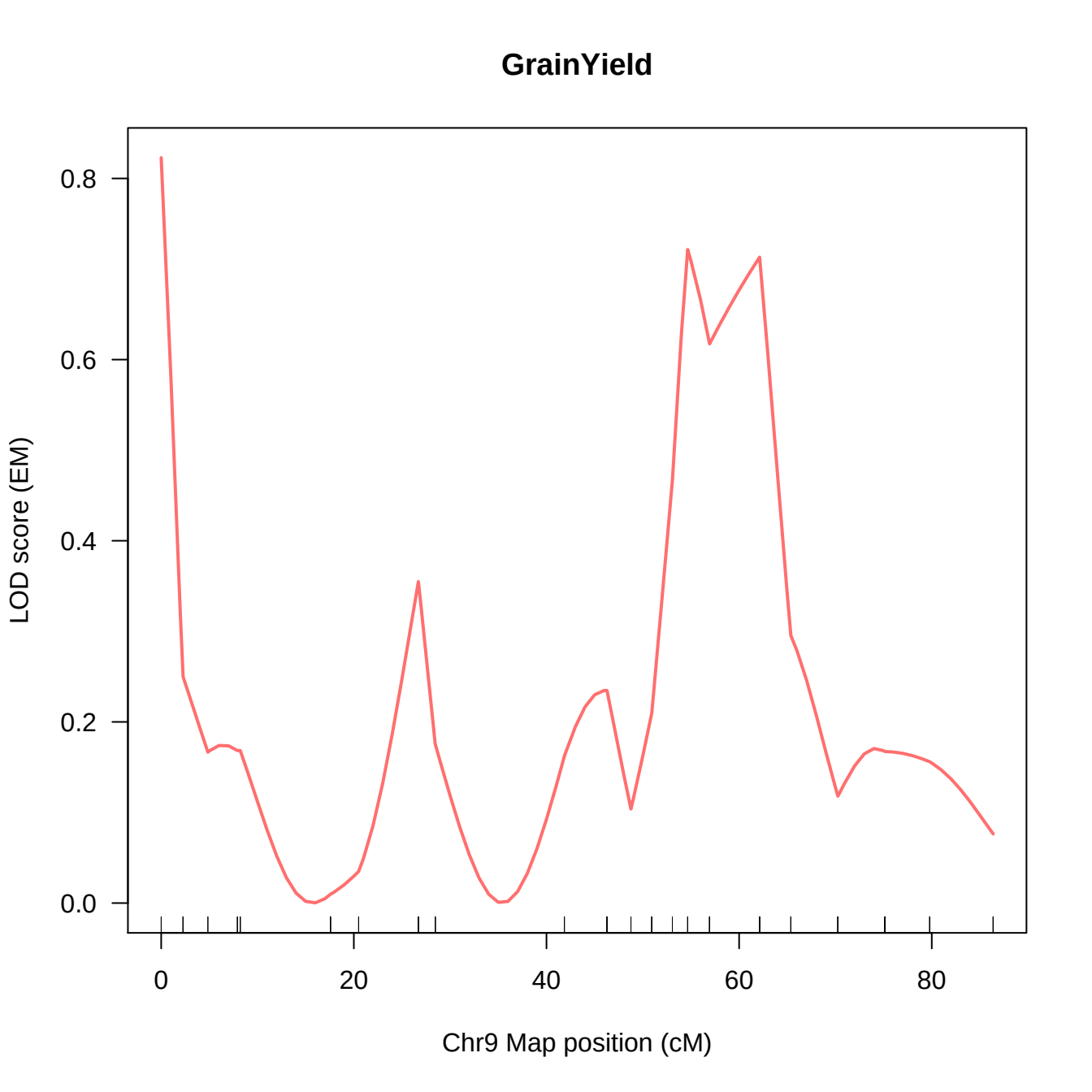

GrainYield
LOD score
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
100
120
Chr7 Map position (cM)

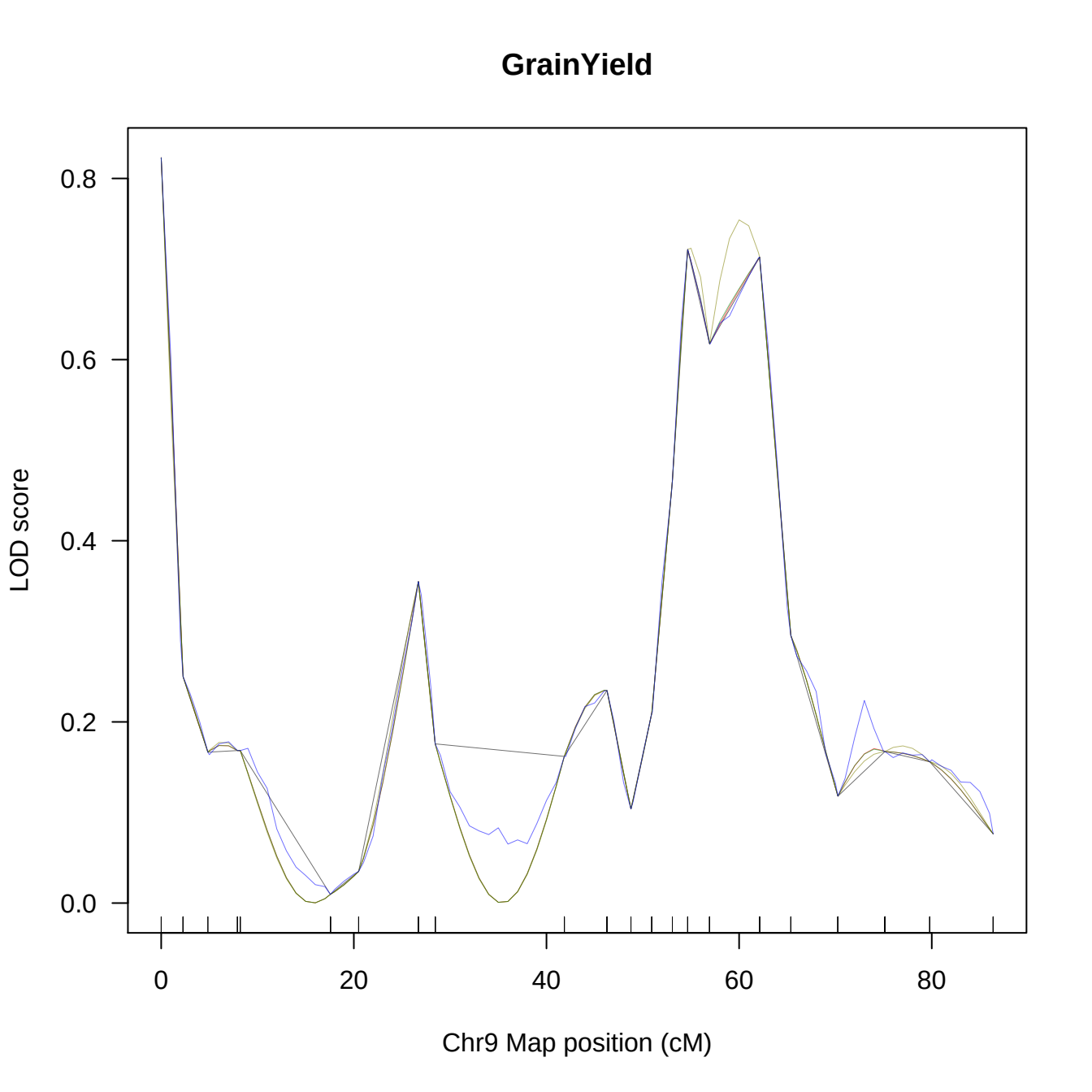

GrainYield
LOD score (MR)
0.0
0.2
0.4
0.6
0
20
40
60
80
100
Chr8 Map position (cM)

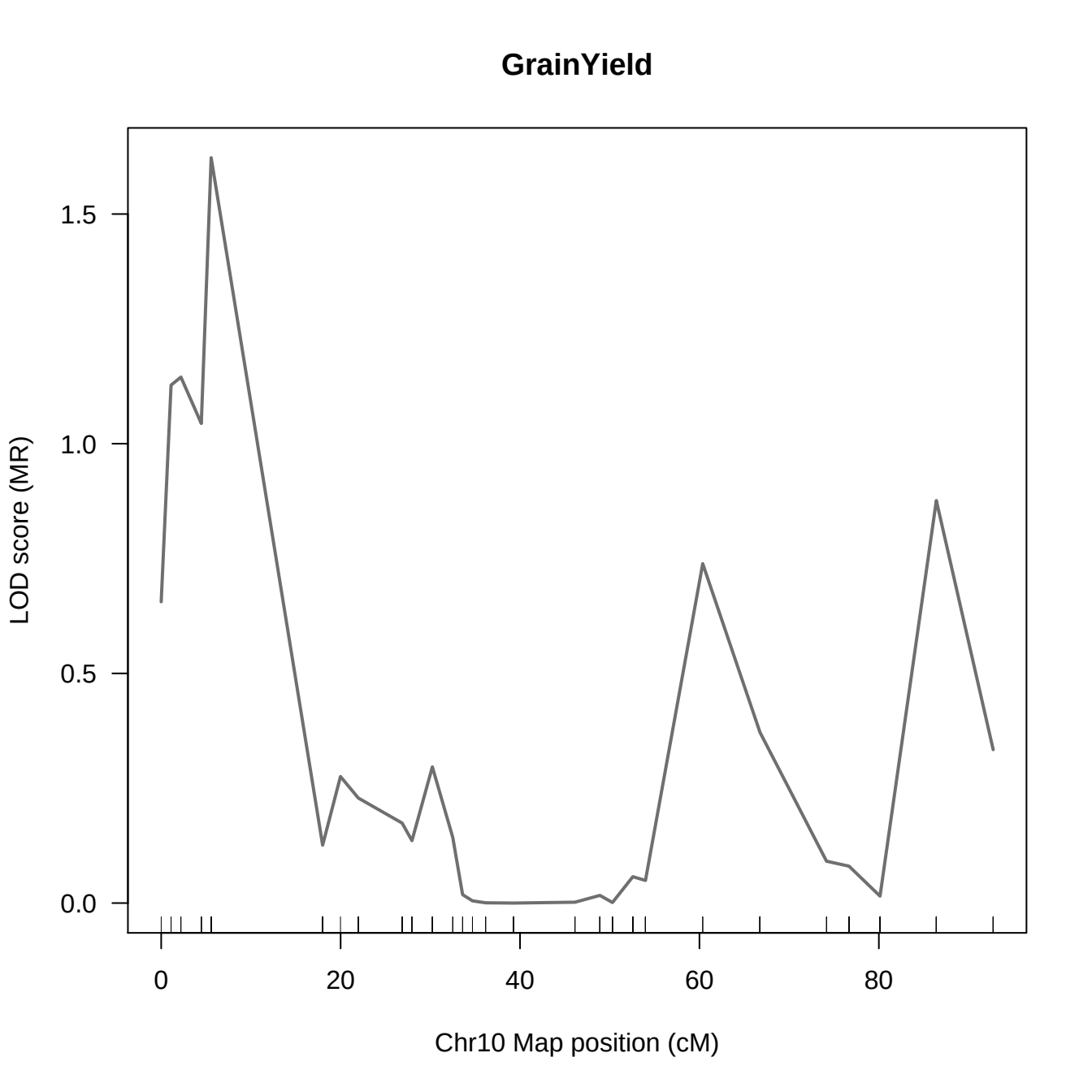

GrainYield
LOD score (EM)
0.0
0.2
0.4
0.6
0
20
40
60
80
100
Chr8 Map position (cM)

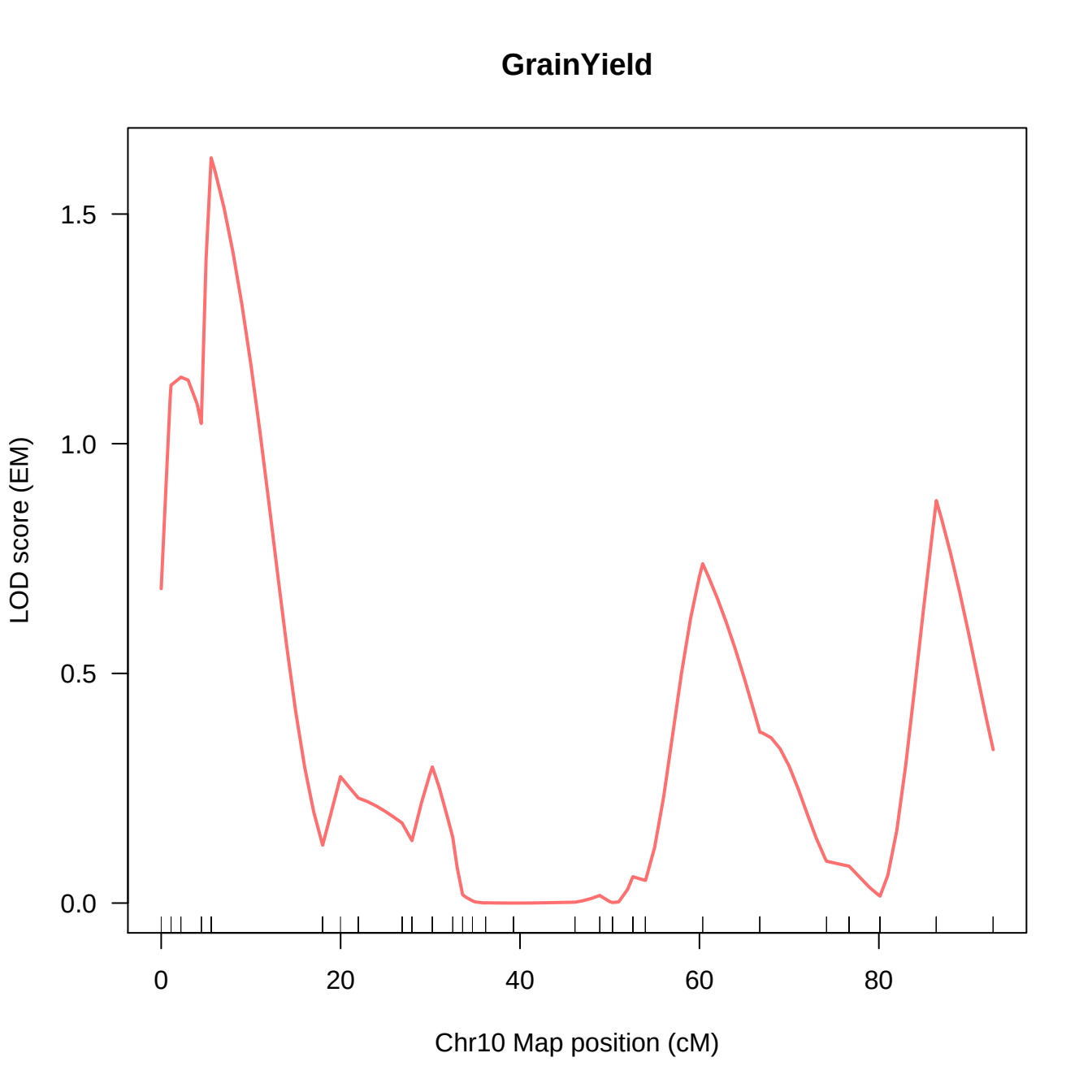

GrainYield
LOD score
0.0
0.2
0.4
0.6
0
20
40
60
80
100
Chr8 Map position (cM)

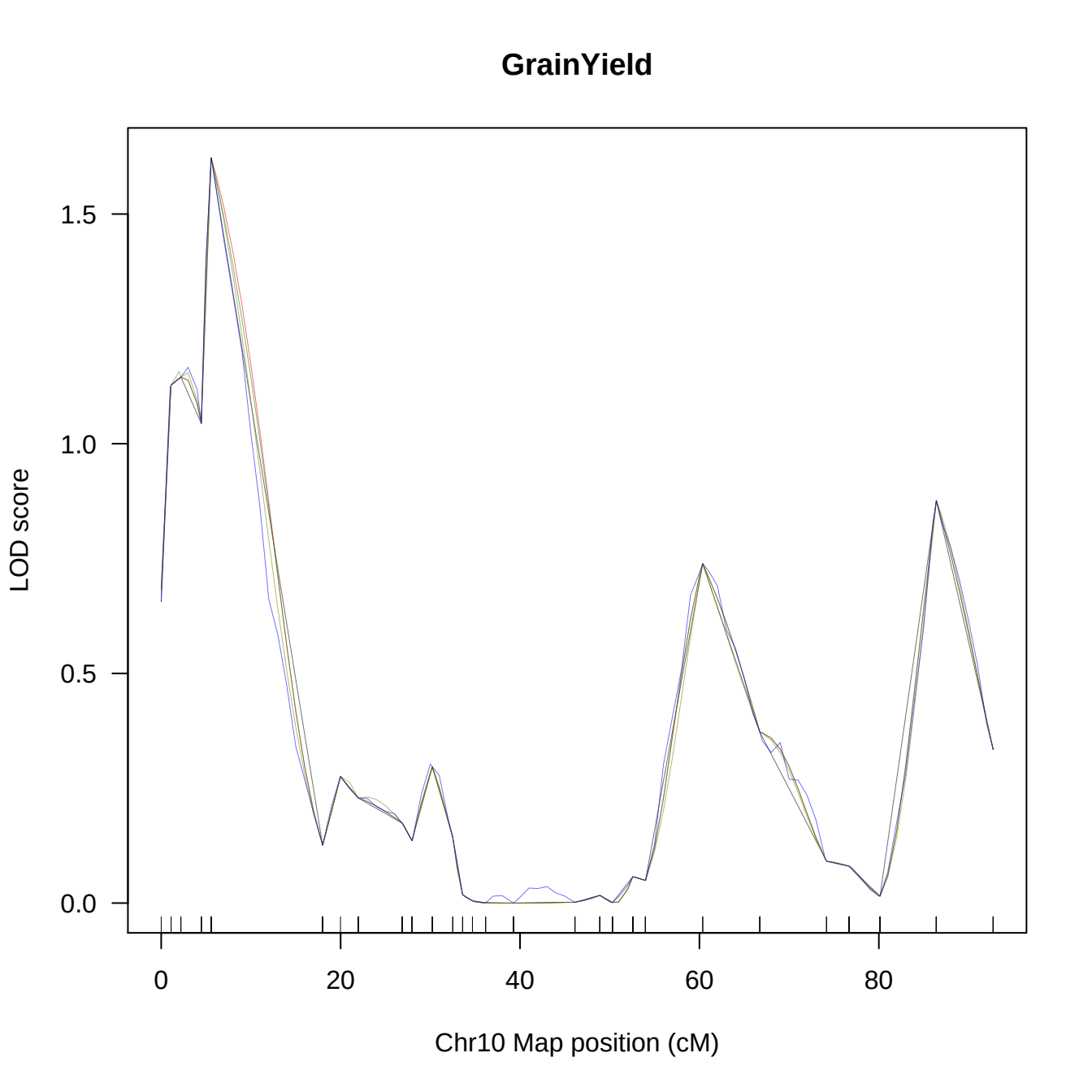

GrainYield
LOD score (MR)
0.0
0.2
0.4
0.6
0.8
0
20
40
60
80
Chr9 Map position (cM)

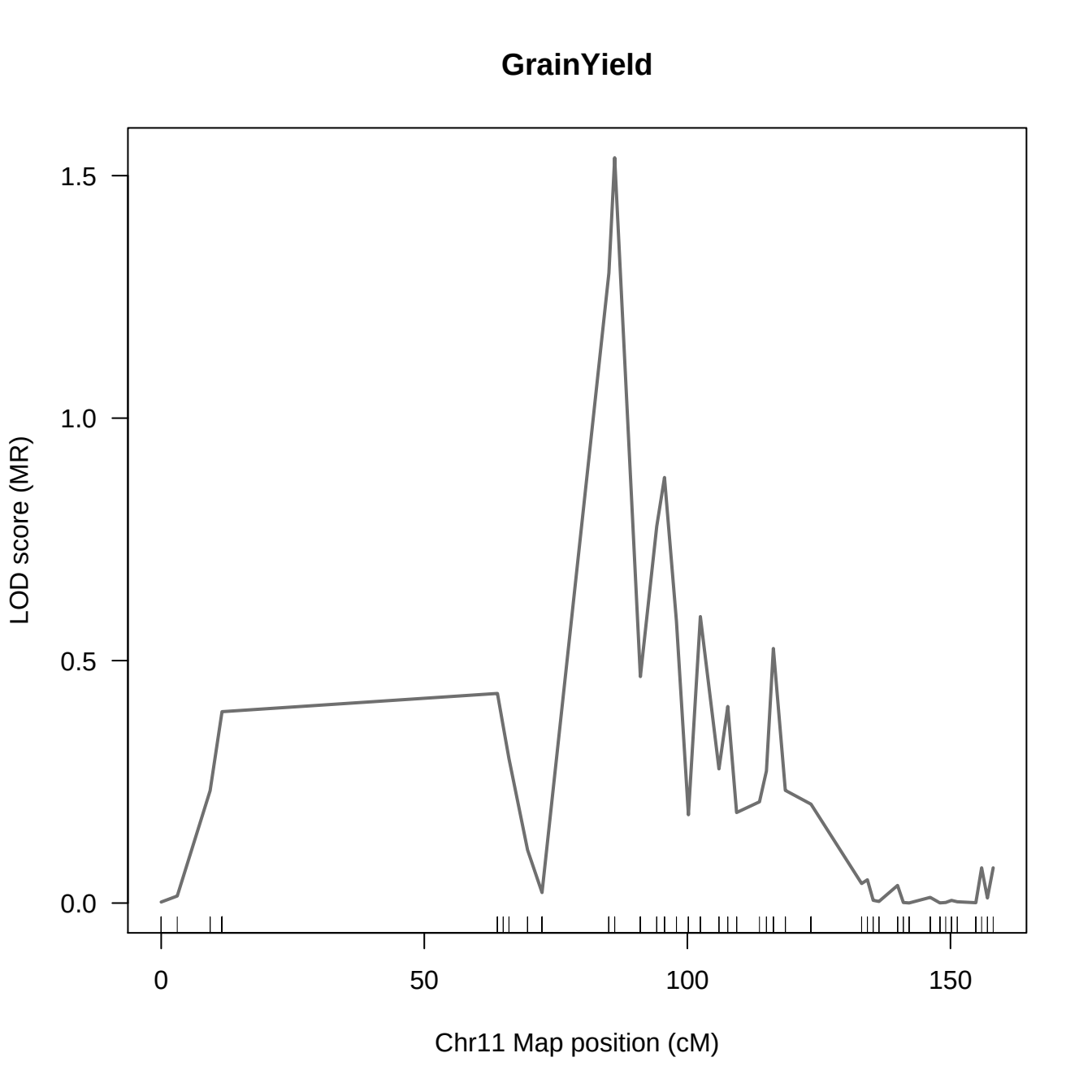

GrainYield
LOD score (EM)
0.0
0.2
0.4
0.6
0.8
0
20
40
60
80
Chr9 Map position (cM)

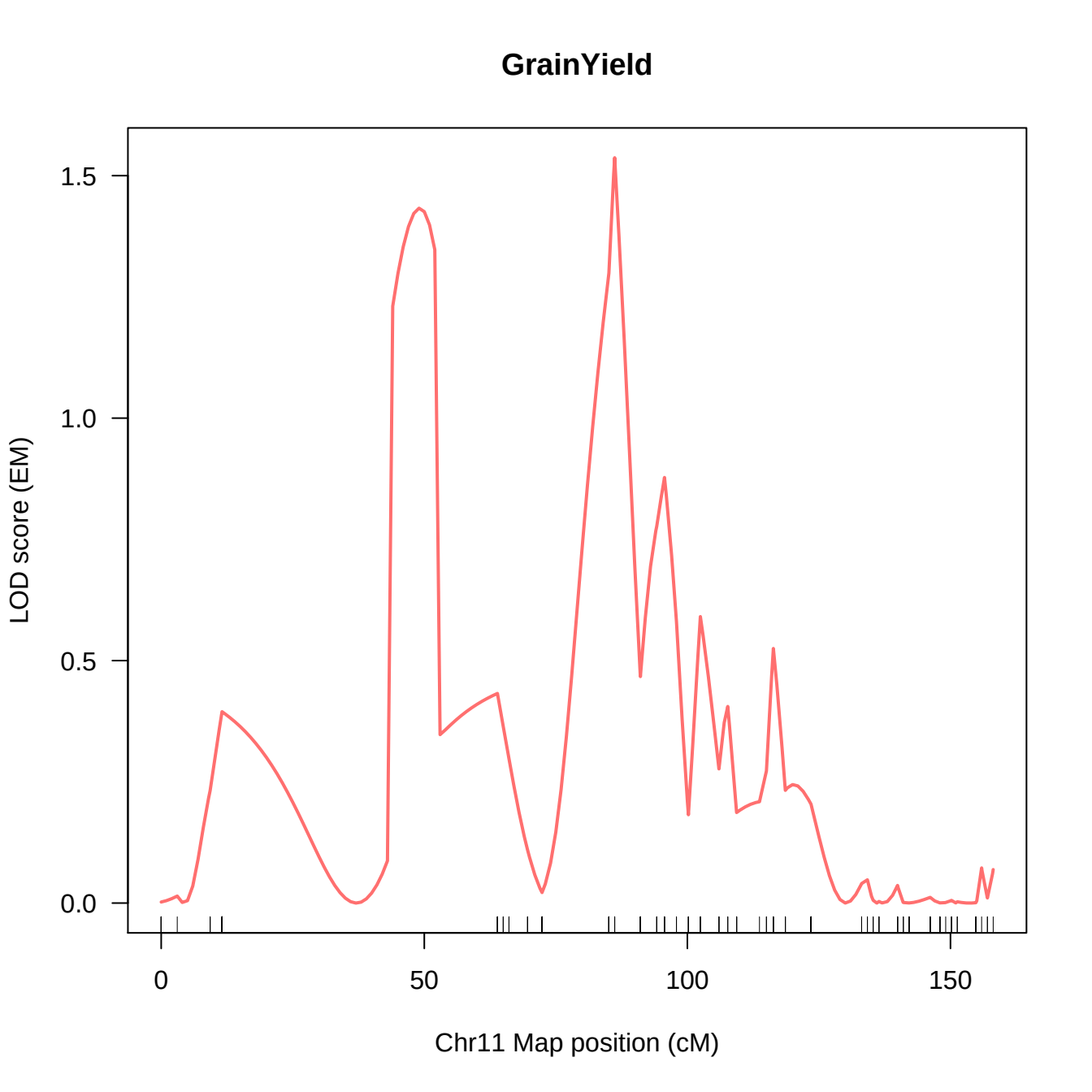

GrainYield
LOD score
0.0
0.2
0.4
0.6
0.8
0
20
40
60
80
Chr9 Map position (cM)

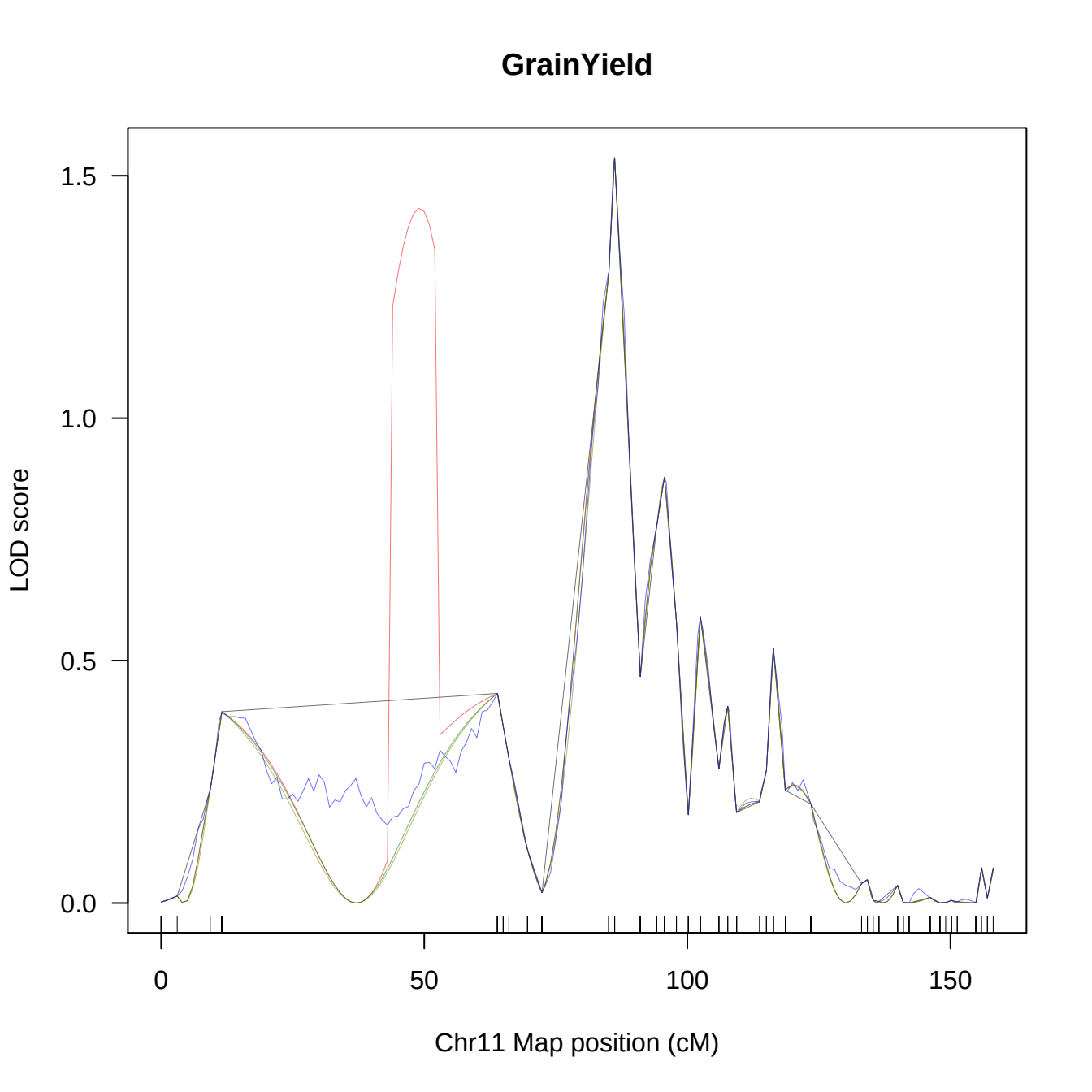

GrainYield
LOD score (MR)
1.5
1.0
0.5
0.0
0
20
40
60
80
Chr10 Map position (cM)

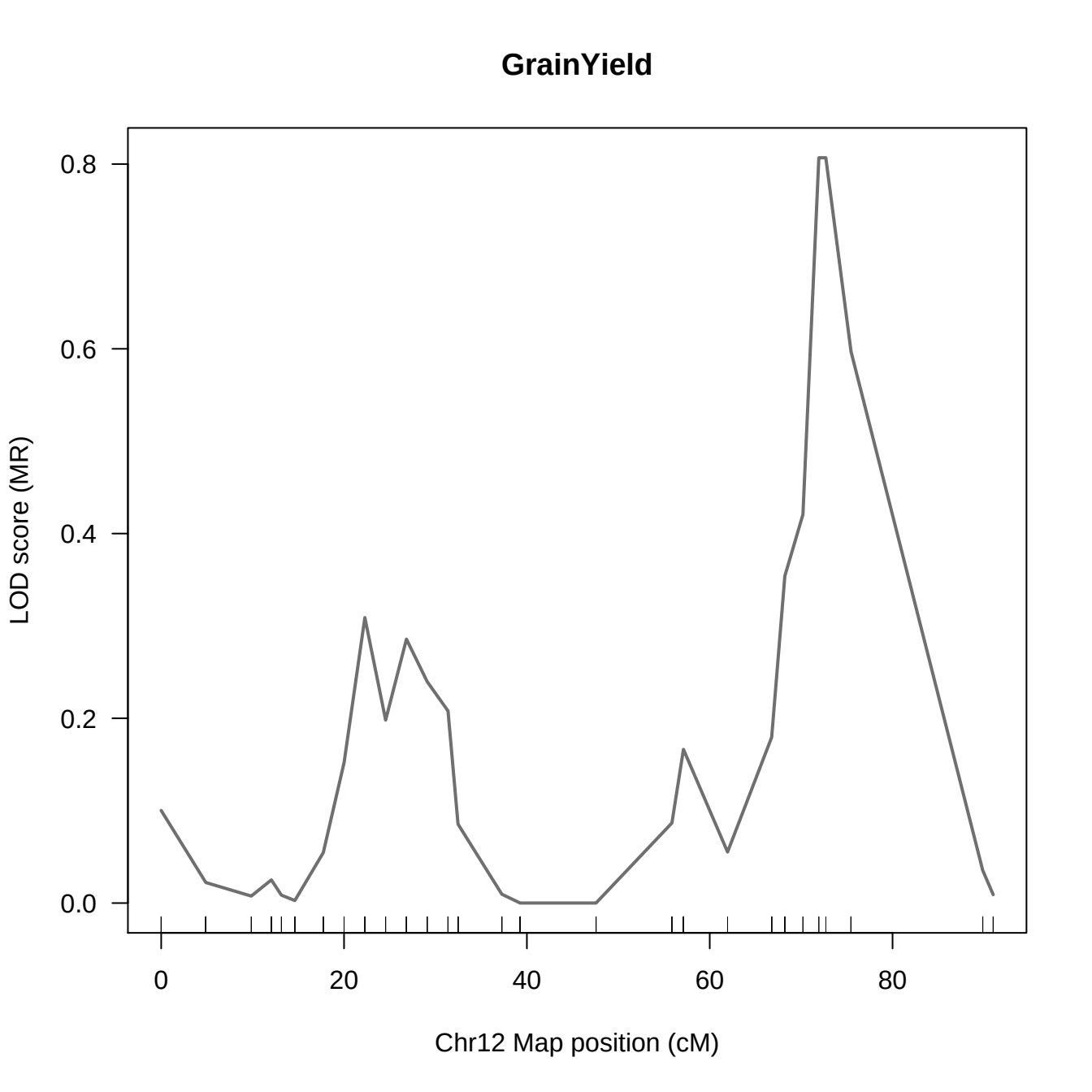

GrainYield
LOD score (EM)
1.5
1.0
0.5
0.0
0
20
40
60
80
Chr10 Map position (cM)

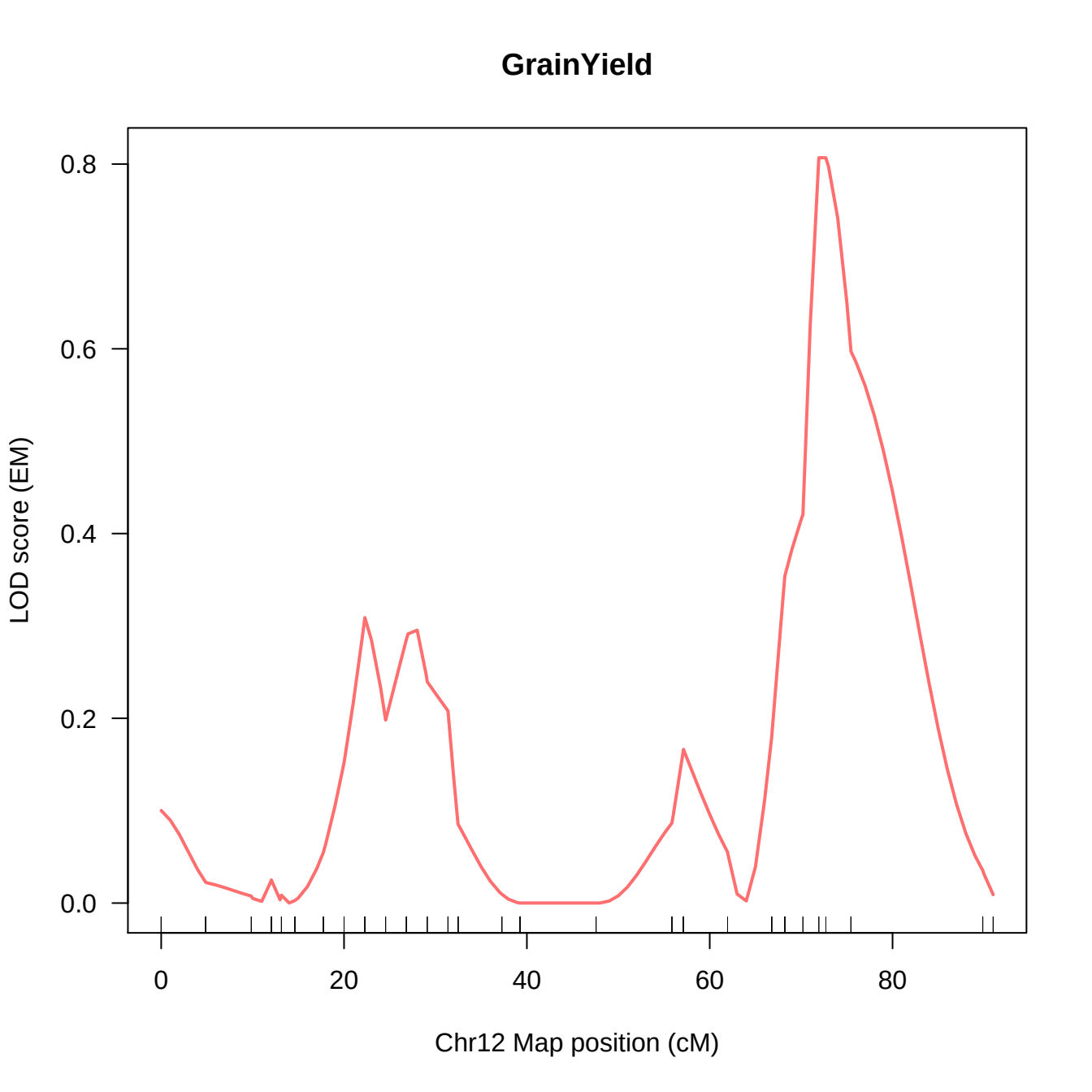

GrainYield
LOD score
0.0
0.5
1.0
1.5
0
20
40
60
80
Chr10 Map position (cM)

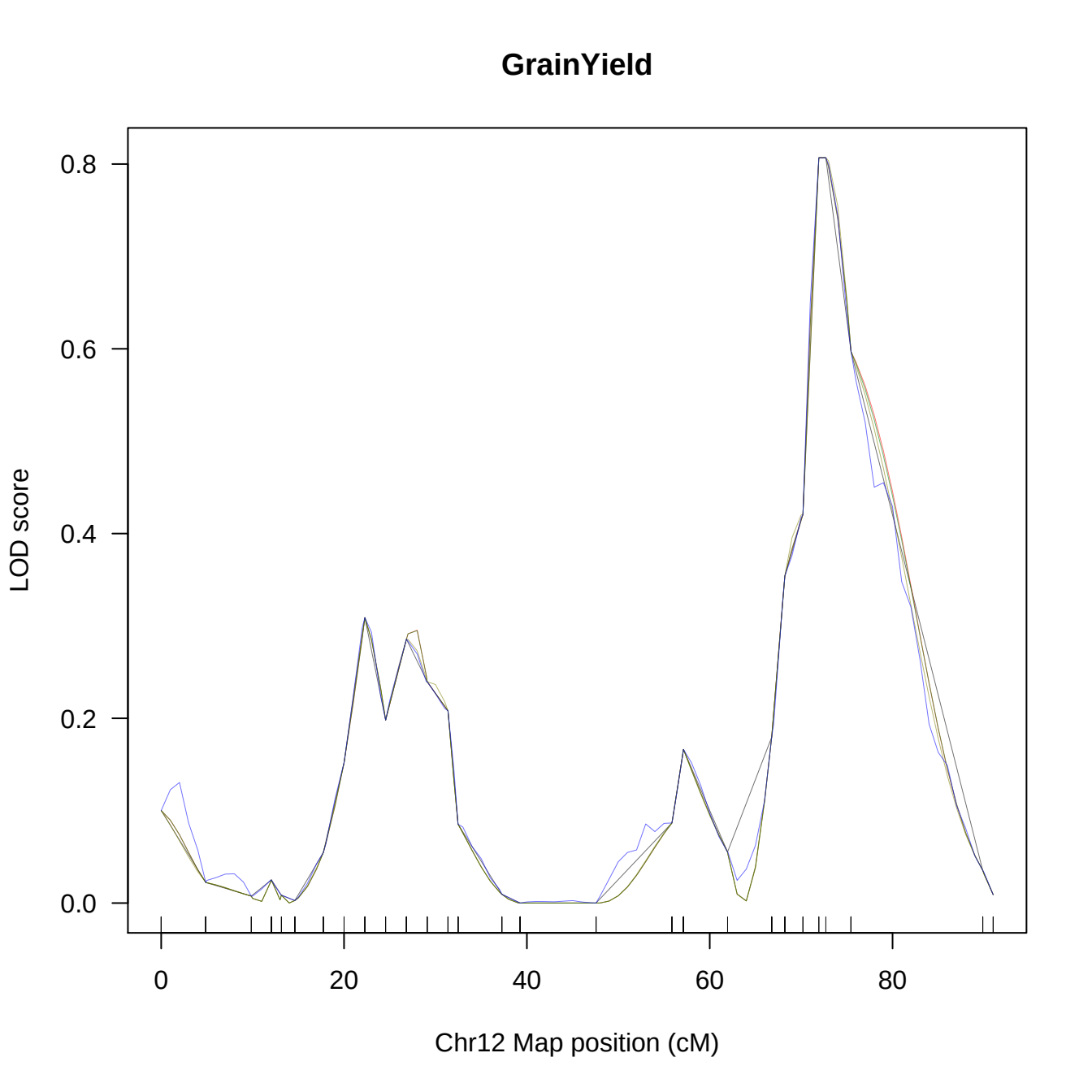

GrainYield
1.5
1.0
0.5
0.0
LOD score (MR)
0
50
100
150
Chr11 Map position (cM)


GrainYield
1.5
1.0
0.5
0.0
LOD score (EM)
0
50
100
150
Chr11 Map position (cM)


GrainYield
1.5
1.0
0.5
0.0
LOD score
0
50
100
150
Chr11 Map position (cM)


GrainYield
LOD score (MR)
0.0
0.2
0.4
0.6
0.8
0
20
40
60
80
Chr12 Map position (cM)


GrainYield
LOD score (EM)
0.0
0.2
0.4
0.6
0.8
0
20
40
60
80
Chr12 Map position (cM)


GrainYield
LOD score
0.0
0.2
0.4
0.6
0.8
0
20
40
60
80
Chr12 Map position (cM)