a. PLINK TASSEL c2 1699 SHEsis c2\_17192 GWASpoly c2 3680 c2\_39509 TOOL SNP POS MODEL GC CHR **PVALUE** SCR THR SGN c2\_46195 c2\_9245 c2\_40954 c2\_32465 0.96 c2 25471 10 48808 0.000002 5.67 4.50 GWASpoly additive c1\_16001 c2 12125 ct 13530 c2 45611 10 5.51 4.50 т **GWASpoly** additive 0.96 48203 0.000003 c1\_13526 c2\_53380 c2\_54811 c2\_11977 0.96 c1 8019 10 48863 0.000005 5.27 4.50 Т GWASpoly additive c2\_22188 c2\_549 c1\_329 **GWASpoly** additive 0.96 c2 45606 10 48218 0.000021 4.68 4.50 т GWASpoly 0.96 c2 22188 11 40777 0.000050 4.30 4.50 F additive c2\_45606 c2\_45611 c2 549 0.000589 **GWASpoly** 0.96 9 16527 3.23 4.50 F additive b. F GWASpoly additive 0.96 c1 8021 10 48862 0.000589 3.23 4.50 c1\_16351 GWASpoly c1 329 F additive 0.96 10 56519 0.001514 2.82 4.50

c1 16351

c1 16001

c2 45606

c2 45611

c2 17192

c2 39509

c1 13530

c2 9245

c2 12125

c2 5774

c1 8019

c1 13526

c2 25471

c2 53380

c1 16351

c2 45606

c2 45611

c1 8021

c2 54811

c2 16999

c2 16998

c2 12125

c1 16001

c2 3680

c2 46195

c2 40954

c2 45606

c2 45611

10

10

10

10

1

9

10

6

1

6

10

10

10

1

10

10

10

10

1

8

8

1

10

11

1

1

10

10

48761

47539

48218

48203

70472

50174

48149

57953

71450

50345

48863

48020

48808

70371

48761

48218

48203

48862

46270

54838

54838

71450

47539

39908

64259

63756

48218

48203

GWASpoly

PLINK

PLINK

**PLINK** 

**PLINK** 

PLINK

PLINK

PLINK

PLINK

PLINK

SHEsis

SHEsis

SHEsis

SHEsis

SHEsis

SHEsis

SHEsis

SHEsis

SHEsis

TASSEL

TASSEL

TASSEL

TASSEL

TASSEL

TASSEL

TASSEL

TASSEL

TASSEL

additive

general

general

general

general

general

general

general

general

general

additive

additive

additive

additive

additive

additive

additive

additive

additive

0.96

1.19

1.19

1.19

1.19

1.19

1.19

1.19

1.19

1.19

1.47

1.47

1.47

1.47

1.47

1.47

1.47

1.47

1.47

0.86

0.86

0.86

0.86

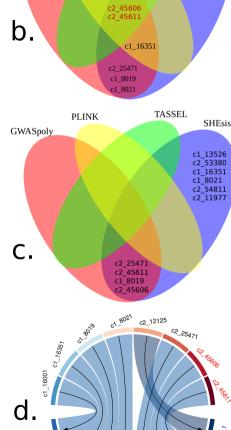
0.86

0.86

0.86

0.86

0.86



Chrom\_10



0.001622 2.79 0.000047 4.33 0.000688 3.16 0.000786 3.10 0.001123 2.95 0.001440 2.84 0.001443 2.84 0.002455 2.61 2.59 0.002593 0.004336 2.36 0.000000 7.64 0.000000 6.94 0.000000 6.94 0.000000 6.46

0.000010

0.000012

0.000014

0.000247

0.000329

0.003287

0.006105

0.006701

0.007116

0.011097

0.011369

0.012091

0.000004 5.45 0.000004 5.38

4.50

4.55

4.55

4.55

4.55

4.55

4.55

4.55

4.55

4.55

4.55

4.55

4.55

4.55

4.55

4.55

4.55

4.55

4.55

3.89

3.89

3.89

3.89

3.89

3.89

3.89

3.89

3.89

4.98

4.93

4.86

3.61

3.48

2.48

2.21

2.17

2.15

1.95

1.94

1.92

F

F

F

F

F

F

F

F

F

F

Т

Т

Т

Τ

Т

T

Т

Т

F

F

F

F

F

F

F

F