

les23-\_mo20w      Fri Jun 01 16:28:50 2018      1

check for 17r slw  
kinetics

% this is ../../crops/18r/planning/current\_pedigrees/primary\_recessives/les23-\_mo20w  
% generated Friday, June 01, 2018 at 21:28:50 UTC (=1527888530.770641) by compute\_pedigrees/1.

% Horizontal pedigrees, generations at same indentation. S: Mo20W; W: W23; M: M14.  
% !!! => cross was not by Toni; references to image locations on right.

% Mo20W/les23-

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06R0018:0000000 x 06R0018:0000000
  06R0018:0001805 x 06R0018:0001809
  06R0018:0001808 x 06R0018:0001804
    06N1253:0002601 x 06N1253:0002601
    06N1253:0002603 x 06N1253:0002603
    06N1253:0002610 x 06N1253:0002610
      07R2720:0076801 x 07R2720:0076801
      07R2720:0076804 x 07R2720:0076804
      07R2720:0076808 x 07R2720:0076810
    06N1253:0002611 x 06N1253:0002611
      09R201:S0032818 x 09R2719:0007304
      09R201:S0033101 x 09R2719:0007304
      09R201:S0033102 x 09R2719:0007312
        10R1003:0011404 x 10R1003:0011404
          12N205:S0041902 x 12N3153:0003802
            13R4067:0014905 x 13R4067:0014905
            13R4067:0014910 x 13R4067:0014910
            13R4067:0014912 x 13R4067:0014912
              14R205:S0000418 x 14R4236:0017202
              14R205:S0002609 x 14R4236:0017206
              14R205:S0002703 x 14R4236:0017206
                15R4370:0006703 x 15R4370:0006703
                15R4370:0006704 x 15R4370:0006704
                15R4370:0006705 x 15R4370:0006705
                15R4370:0006706 x 15R4370:0006706
          14R205:S0002812 x 14R4236:0017206
            12N205:S0042202 x 12N3153:0003802
            12N205:S0043101 x 12N3153:0003802
            12N205:S0043104 x 12N3153:0003802
          09R301:W0033207 x 09R2719:0007312
            11R3291:0007513 x 11R3291:0007513
              11N305:W0041007 x 11N3503:0026412
                12R3525:0015102 x 12R3525:0015102
                12R3525:0015107 x 12R3525:0015107
                12R3525:0015108 x 12R3525:0015108
              11N305:W0041008 x 11N3503:0026410
                12R3526:0015210 x 12R3526:0015210
                12R3526:0015211 x 12R3526:0015211
                12R3526:0015213 x 12R3526:0015213
```

12N3153:0003802: [12n/bet/7.1-[410]]

14R4236:0017202: [14r/bet/22.8-[2295]]

14R4236:0017206: [14r/bet/22.8-[2254]]

14R4236:0017206: [14r/bet/22.8-[2254]]

14R4236:0017206: [14r/bet/22.8-[2254]]

12N3153:0003802: [12n/bet/7.1-[410]]

12N3153:0003802: [12n/bet/7.1-[410]]

12N3153:0003802: [12n/bet/7.1-[410]]

K1804

S — 3

les23-\_mo20w

Fri Jun 01 16:28:50 2018

2

12N305:W0035903 x 12N3889:0004008

12N3889:0004008: [12n/bet/7.1-[413,414]]

13R4068:0015001 x 13R4068:0015001

14R305:W0000802 x 14R4237:0017306

14R4237:0017306: [14r/bet/22.8-

[2247]]

14R305:W0000807 x 14R4237:0017306

14R4237:0017306: [14r/bet/22.8-

[2247]]

15R4341:0006805 x 15R4341:0006805

16R305:W0001408 x 16R4470:0004603

16R4470:0004603: [16r

/gimmel/26.7-[97,107]]

W

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17R4619:0012701 x 17R4619:0012701

17R4619:0012702 x 17R4619:0012702

17R4619:0012703 x 17R4619:0012703

16R305:W0002806 x 16R4470:0004602

16R305:W0002808 x 16R4470:0004602

15R4341:0006810 x 15R4341:0006810

15R4341:0006811 x 15R4341:0006811

14R305:W0000813 x 14R4237:0017306

14R4237:0017306: [14r/bet/22.8-

[2247]]

14R405:M0001201 x 14R4237:0017302

14R4237:0017302: [14r/bet/22.8-

[2256]]

13R4068:0015004 x 13R4068:0015004

13R4068:0015007 x 13R4068:0015007

13R4068:0015008 x 13R4068:0015008

12R3526:0015214 x 12R3526:0015214

11R3291:0007514 x 11R3291:0007514

09R401:M0033001 x 09R2719:0007304

11R3292:0007401 x 11R3292:0007401

11R3292:0007403 x 11R3292:0007403

12N405:M0036001 x 12N3506:0004113

12N3506:0004113: [12n/bet/7.1-[423,424]]

12N405:M0036010 x 12N3506:0004113

12N3506:0004113: [12n/bet/7.1-[423,424]]

13R4069:0015105 x 13R4069:0015105

13R4069:0015109 x 13R4069:0015109

13R4069:0015112 x 13R4069:0015112

14R405:M0001406 x 14R4240:0017606

14R4240:0017606: [14r/bet/22.8-[2241]]

15R4371:0006904 x 15R4371:0006904

16R405:M0001707 x 16R4471:0004707

16R4471:0004707: [16r/gimmel/26

.7-[92]]

M

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17R4623:0012802 x 17R4623:0012802

17R4623:0012806 x 17R4623:0012806

16R405:M0003101 x 16R4471:0004707

16R4471:0004707: [16r/gimmel/26

.7-[92]]

15R4371:0006905 x 15R4371:0006905

15R4371:0006909 x 15R4371:0006909

14R405:M0001504 x 14R4240:0017605

14R4240:0017605: [14r/bet/22.8-[2240]]

14R405:M0001505 x 14R4240:0017605

14R4240:0017605: [14r/bet/22.8-[2240]]

12N405:M0037202 x 12N3506:0004108

12N3506:0004108: [12n/bet/7.1-[419,420]]

12N405:M0037207 x 12N3506:0004113

12N3506:0004113: [12n/bet/7.1-[423,424]]

12N405:M0039501 x 12N3506:0004108  
12N405:M0039502 x 12N3506:0004108  
11R3292:0007408 x 11R3292:0007408  
09R401:M0033003 x 09R2719:0007312  
09R401:M0033307 x 09R2719:0007304  
06N201:S0005002 x 06N1253:0002601  
06N201:S0014302 x 06N1253:0002607  
06N301:W0004206 x 06N1253:0002601  
06N301:W0029301 x 06N1253:0002603  
07R2724:0076501 x 07R2724:0076501  
09R301:W0032902 x 09R2200:0007605  
09R301:W0032908 x 09R2200:0007612  
09R301:W0035002 x 09R2200:0007606  
09R301:W0035912 x 09R2200:0007615  
09R401:M0033004 x 09R2200:0007605  
09R401:M0033005 x 09R2200:0007612  
09R401:M0033009 x 09R2200:0007606  
09R401:M0033010 x 09R2200:0007615  
09R401:M0036903 x 09R2200:0007605  
07R2724:0076502 x 07R2724:0076502  
07R2724:0076503 x 07R2724:0076503  
06N301:W0029601 x 06N1253:0002610  
06R200:S0017212 x 06R0018:0001802  
09R1057:0006401 x 09R1057:0006401  
12R205:S0011211 x 12R3114:0041302  
09R1057:0006404 x 09R1057:0006404  
09R1057:0006405 x 09R1057:0006405  
12N205:S0036410 x 12N3115:0003309  
13R4065:0014705 x 13R4065:0014705  
13R4065:0014707 x 13R4065:0014707  
15R205:S0000405 x 15R4231:0009207  
15R205:S0000501 x 15R4231:0009207  
16R4465:0004109 x 16R4465:0004109  
16R4465:0004111 x 16R4465:0004111  
17R205:S0001102 x 17R4626:0015704  
17R205:S0001103 x 17R4626:0015704  
17R205:S0001214 x 17R4626:0015704  
17R205:S0001216 x 17R4626:0015704  
16R4465:0004112 x 16R4465:0004112  
16R4465:0004113 x 16R4465:0004113  
15R205:S0000502 x 15R4231:0009207  
13R4065:0014710 x 13R4065:0014710  
09R1057:0006407 x 09R1057:0006407  
09R1057:0006408 x 09R1057:0006408  
06R300:W0017303 x 06R0018:0001802  
07R1586:0076101 x 07R1586:0076101  
07R1586:0076102 x 07R1586:0076102

12N3506:0004108: [12n/bet/7.1-[419,420]]  
12N3506:0004108: [12n/bet/7.1-[419,420]]

K1802

12R3114:0041302: [12r/aleph/9.8-[2193]]

15R4231:0009207: [15r/bet/15.8-[2761]]  
15R4231:0009207: [15r/bet/15.8-[2761]]

17R4626:0015704: [17r/gimmel/2.8-[366]]  
17R4626:0015704: [17r/gimmel/2.8-[366]]  
17R4626:0015704: [17r/gimmel/2.8-[366]]  
17R4626:0015704: [17r/gimmel/2.8-[366]]

15R4231:0009207: [15r/bet/15.8-[2761]]

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les23-\_mo20w

Fri Jun 01 16:28:50 2018

4

07R1586:0076105 x 07R1586:0076105

09R301:W0032914 x 09R2172:0006509

11R3244:0007302 x 11R3244:0007302

11N305:W0039201 x 11N3498:0025811

12R3527:0015304 x 12R3527:0015304

12R3527:0015306 x 12R3527:0015306

12N305:W0036505 x 12N3887:0003606

12N3887:0003606: [12n/bet/6.1-[408]]

13R4066:0014804 x 13R4066:0014804

14R305:W0000707 x 14R4232:0016704

14R4232:0016704: [14r/bet/22.8-

[2257]]

14R305:W0000806 x 14R4232:0016701

14R4232:0016701: [14r/bet/22.8-

[2255]]

15R4339:0006503 x 15R4339:0006503

16R305:W0001401 x 16R4467:0004309

16R4467:0004309: [16r

/gimmel/26.7-[99]]

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17R4618:0012502 x 17R4618:0012502

17R4618:0012503 x 17R4618:0012503

17R4618:0012507 x 17R4618:0012507

16R305:W0001405 x 16R4467:0004307

16R4467:0004307: [16r

/gimmel/26.7-[113]]

16R305:W0001503 x 16R4467:0004315

16R4467:0004315: [16r

/gimmel/26.7-[109]]

15R4339:0006507 x 15R4339:0006507

15R4339:0006508 x 15R4339:0006508

15R4339:0006510 x 15R4339:0006510

13R4066:0014806 x 13R4066:0014806

13R4066:0014812 x 13R4066:0014812

13R4066:0014813 x 13R4066:0014813

12N305:W0036512 x 12N3887:0003606

12N3887:0003606: [12n/bet/6.1-[408]]

12N305:W0038304 x 12N3887:0003613

12N3887:0003613: [12n/bet/6.1-[409]]

12R3527:0015307 x 12R3527:0015307

11N305:W0039209 x 11N3498:0025812

12R3528:0015402 x 12R3528:0015402

12R3528:0015403 x 12R3528:0015403

12R3528:0015413 x 12R3528:0015413

12R3528:0015415 x 12R3528:0015415

11N305:W0039509 x 11N3498:0025805

12R3529:0015501 x 12R3529:0015501

12R3529:0015503 x 12R3529:0015503

12R3529:0015510 x 12R3529:0015510

11R3244:0007303 x 11R3244:0007303

09R301:W0032916 x 09R2172:0006507

07R1586:0076106 x 07R1586:0076106

07R1586:0076115 x 07R1586:0076115

06R400:M00I7405 x 06R0018:0001802

07R1625:0076202 x 07R1625:0076202

09R301:W0032915 x 09R2175:0007010

09R401:M0033407 x 09R2175:0007012  
11R3245:0007602 x 11R3245:0007602  
11R3245:0007603 x 11R3245:0007603  
12R305:W0011606 x 12R3501:0041711 12R3501:0041711: [12r/aleph/9.8-[2194]]  
12R405:M0011702 x 12R3501:0041711 12R3501:0041711: [12r/aleph/9.8-[2194]]  
12N3894:0005303 x 12N3894:0005303  
14R405:M0001301 x 14R4124:0016906 14R4124:0016906: [14r/bet/22.8-[2242]]  
15R4340:0006601 x 15R4340:0006601  
16R305:W0001510 x 16R4468:0004403  
16R405:M0001705 x 16R4468:0004411 16R4468:0004411: [16r/gimmel/26  
.7-[104],16r/gimmel/30.7-[278]]

M — ( 17R4622:0012602 x 17R4622:0012602  
17R4622:0012603 x 17R4622:0012603  
17R4622:0012610 x 17R4622:0012610  
17R4622:0012611 x 17R4622:0012611  
16R405:M0001706 x 16R4468:0004411 16R4468:0004411: [16r/gimmel/26  
.7-[104],16r/gimmel/30.7-[278]]  
16R405:M0002003 x 16R4468:0004410 16R4468:0004410: [16r/gimmel/26  
.7-[101],16r/gimmel/30.7-[281]]  
16R405:M0002005 x 16R4468:0004410 16R4468:0004410: [16r/gimmel/26  
.7-[101],16r/gimmel/30.7-[281]]  
16R405:M0002101 x 16R4468:0004411 16R4468:0004411: [16r/gimmel/26  
.7-[104],16r/gimmel/30.7-[278]]  
16R405:M0002102 x 16R4468:0004411 16R4468:0004411: [16r/gimmel/26  
.7-[104],16r/gimmel/30.7-[278]]  
15R4340:0006604 x 15R4340:0006604  
15R4340:0006605 x 15R4340:0006605  
15R4340:0006606 x 15R4340:0006606  
14R405:M0001307 x 14R4124:0016906 14R4124:0016906: [14r/bet/22.8-[2242]]  
14R405:M0001513 x 14R4124:0016907 14R4124:0016907: [14r/bet/22.8-[2258]]  
14R405:M0001514 x 14R4124:0016907 14R4124:0016907: [14r/bet/22.8-[2258]]  
12N3894:0005306 x 12N3894:0005306  
12N3894:0005307 x 12N3894:0005307  
12N3894:0005313 x 12N3894:0005313  
12R405:M0011708 x 12R3501:0041711 12R3501:0041711: [12r/aleph/9.8-[2194]]  
11R3245:0007605 x 11R3245:0007605  
09R401:M0036002 x 09R2175:0007010  
09R401:M0036004 x 09R2175:0007012