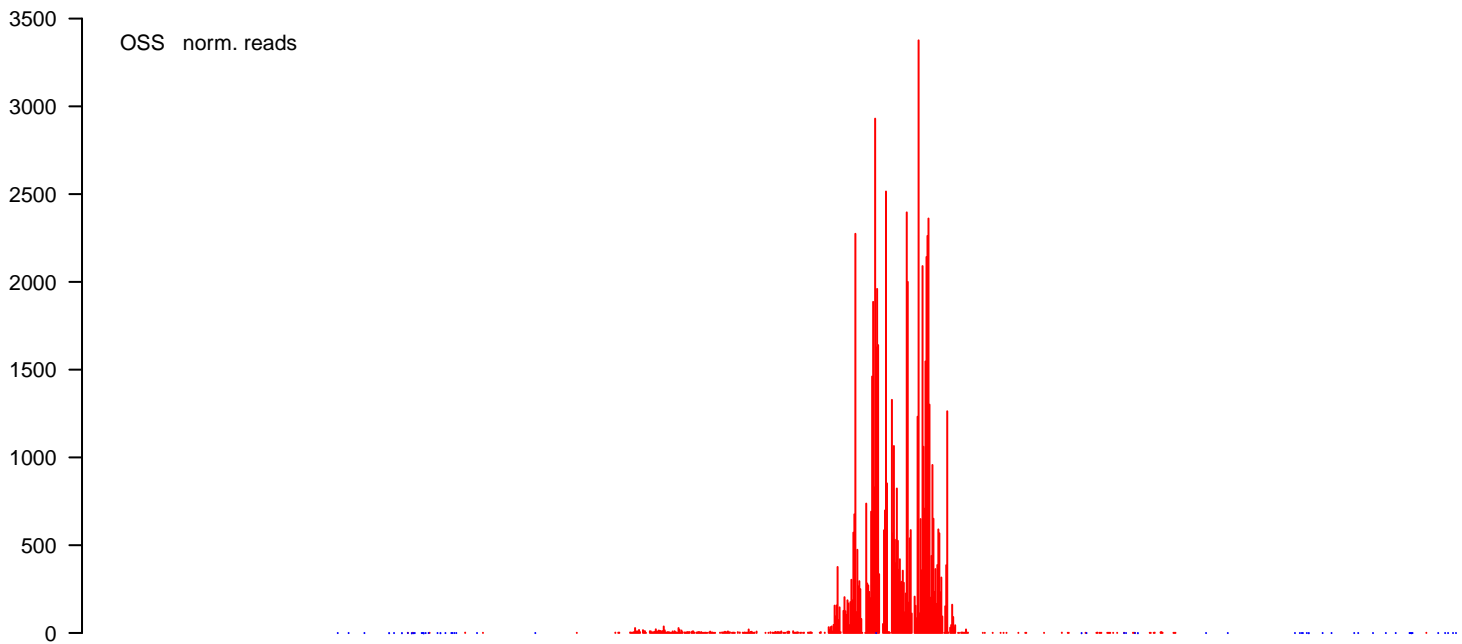
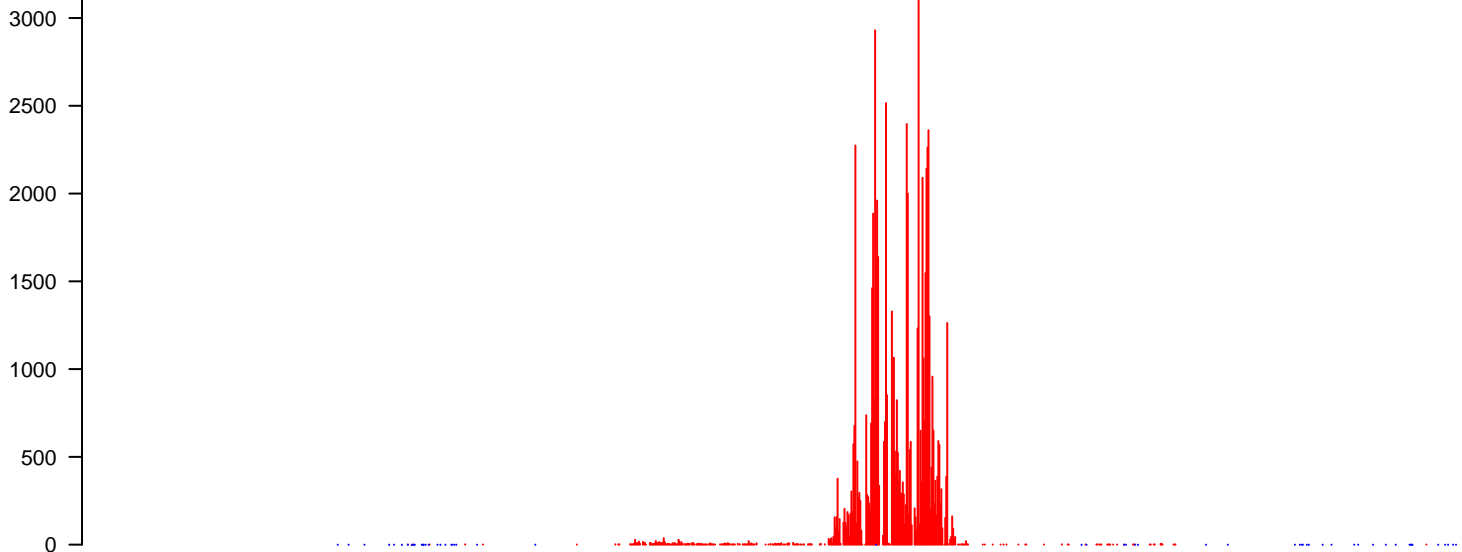


Supplemental Data  
OSS unique reads

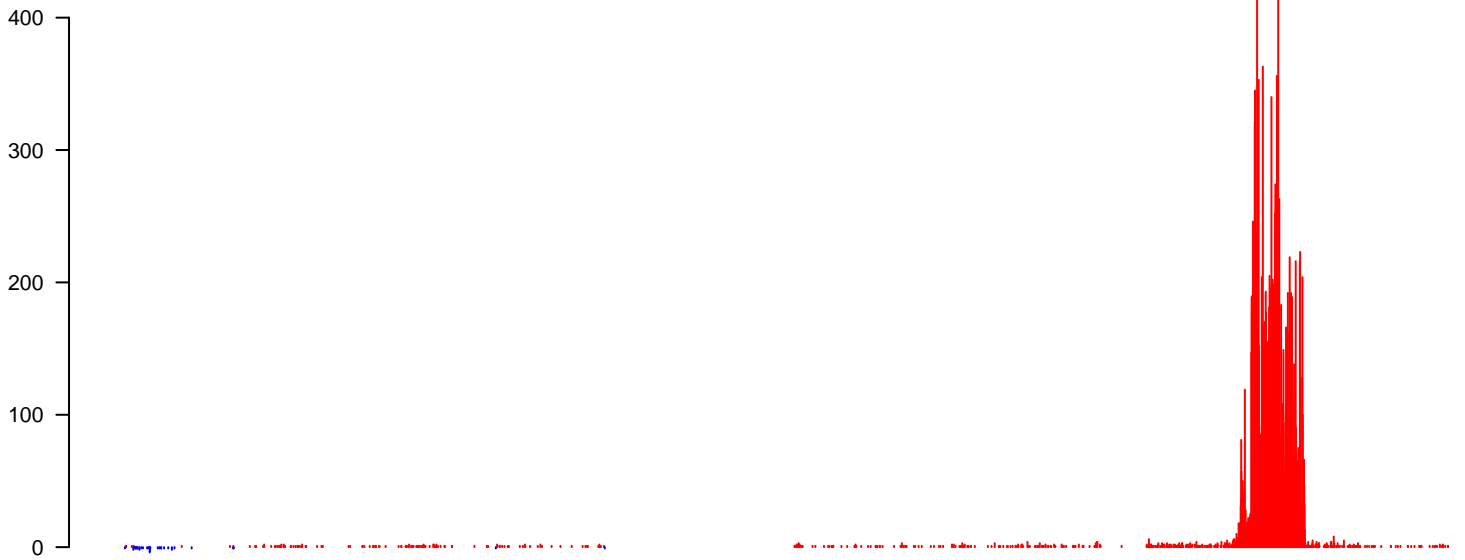
tj chr 2L : 19464444 - 19467886 +



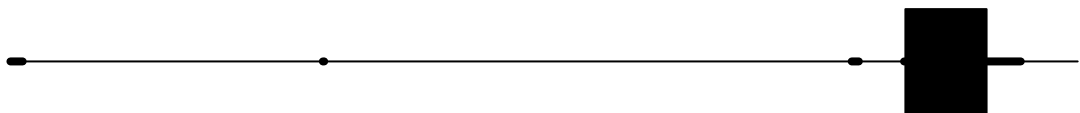
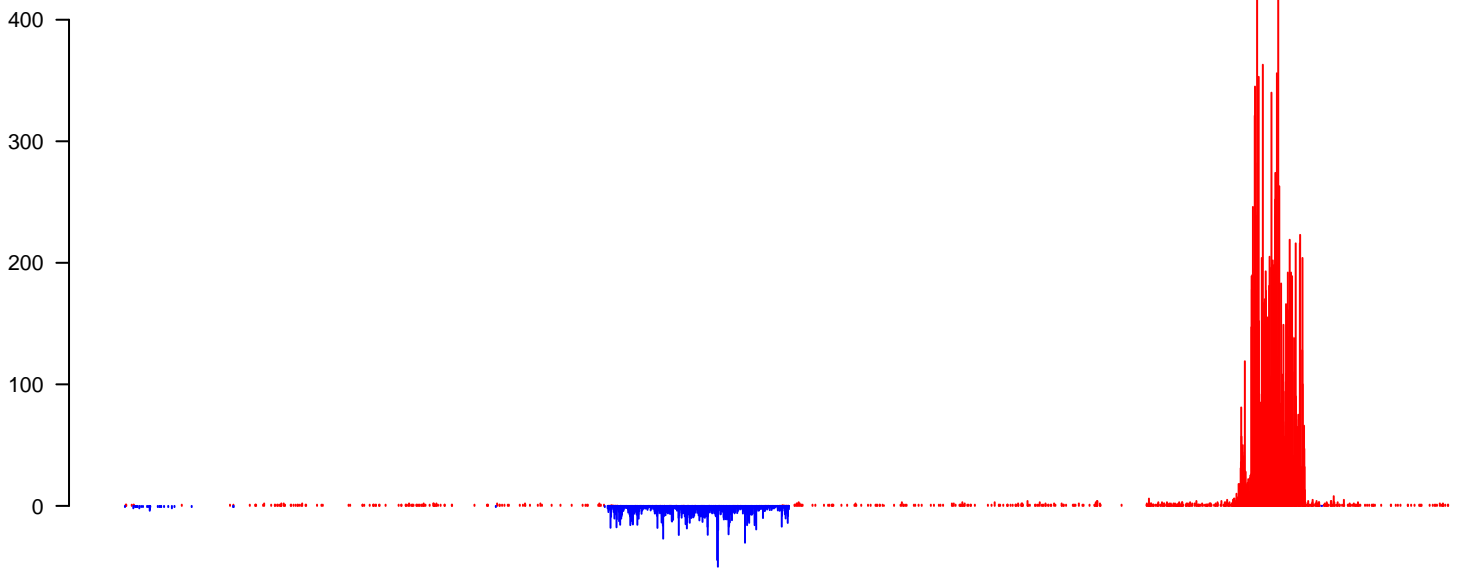
tj 2L + 19464444 19467886

OSS unique reads

brat chr 2L : 19133806 – 19174756 +



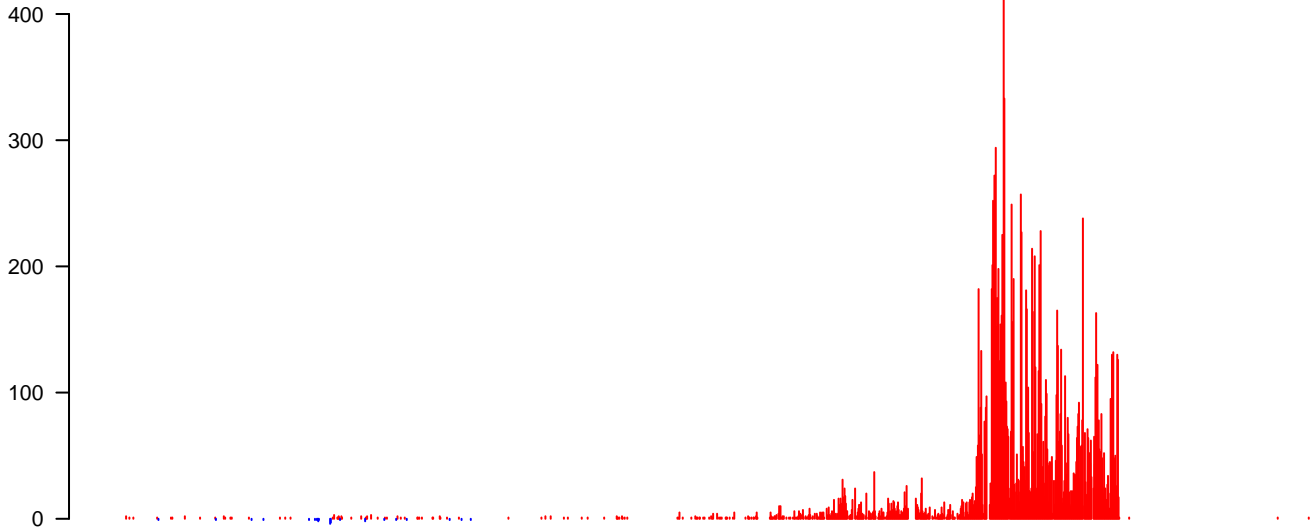
OSS norm. reads



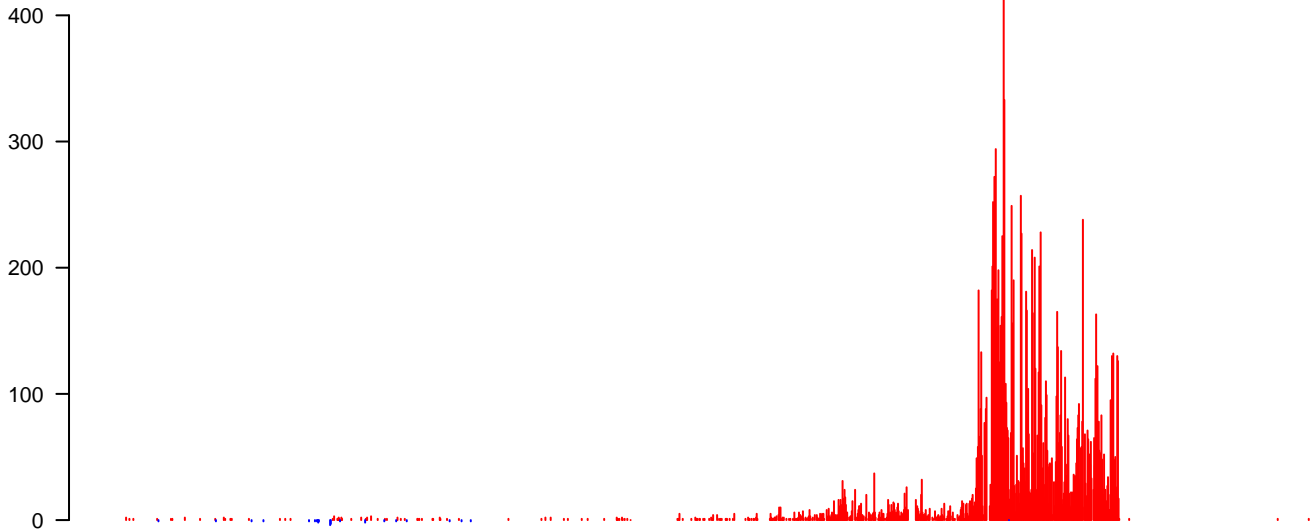
brat 2L + 19133806 19174756

OSS unique reads

larp chr 3R : 24143896 – 24154005 –



OSS norm. reads



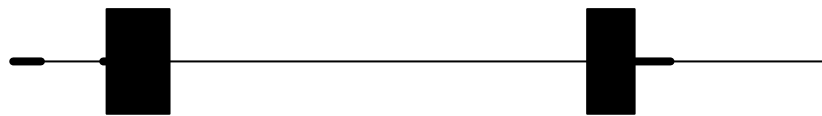
larp 3R – 24143896 24154005

OSS unique reads

dm chr X : 3267216 – 3283137 +



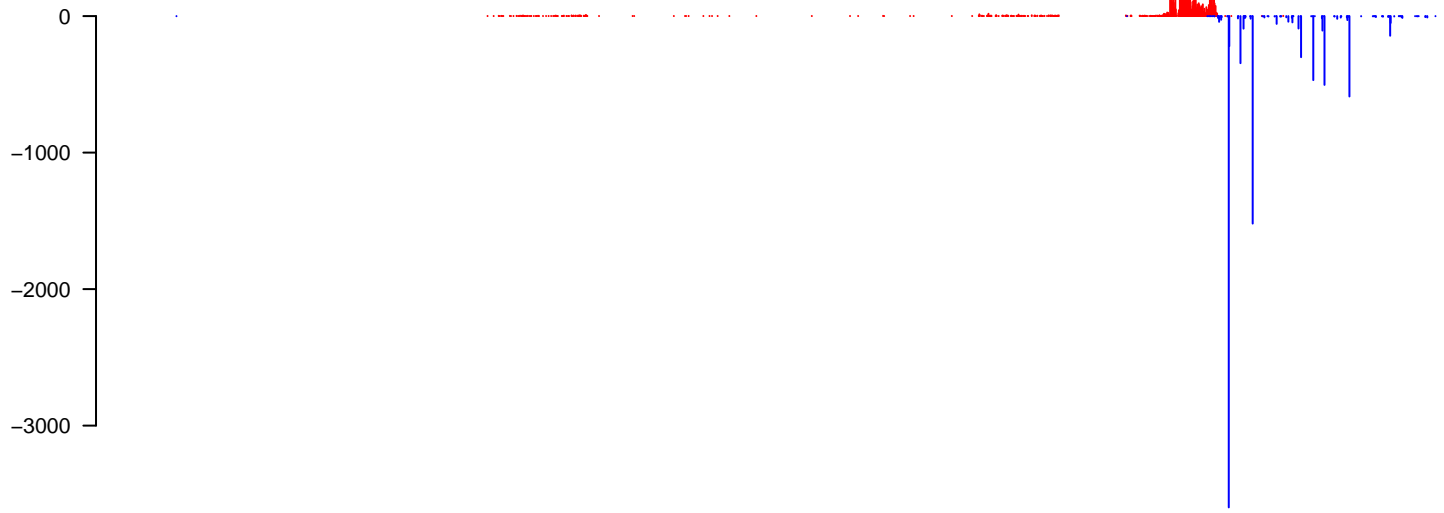
OSS norm. reads



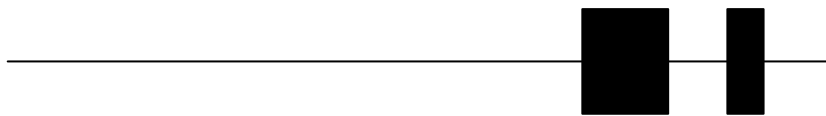
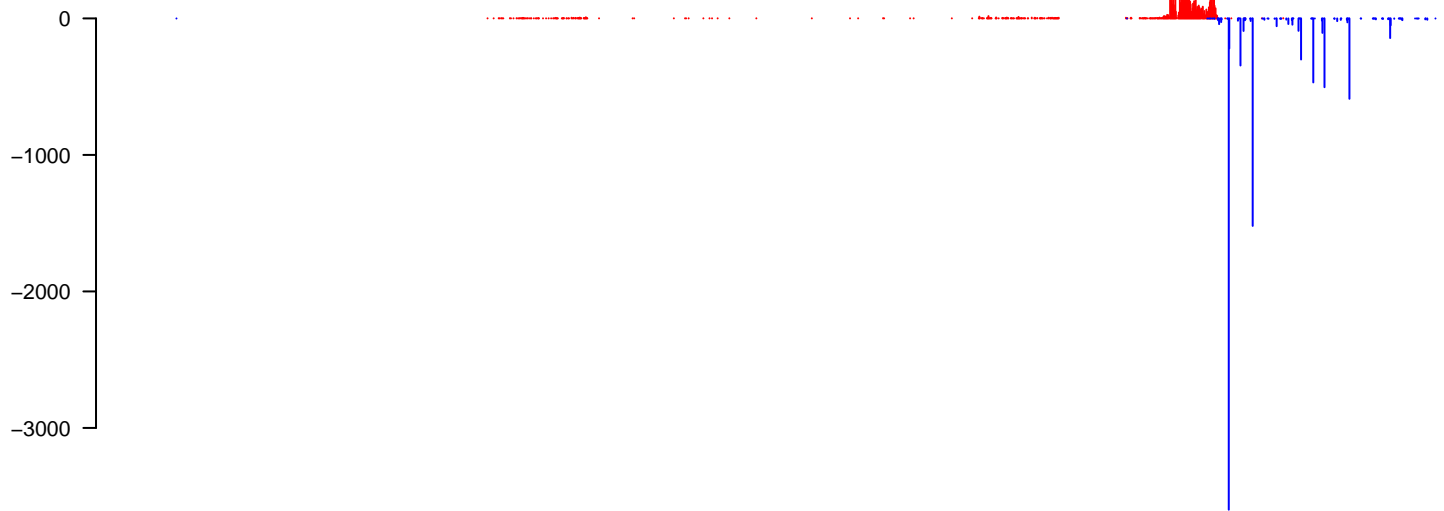
dm X + 3267216 3283137

OSS unique reads

CG6424 chr 2R : 13590749 – 13606832 –



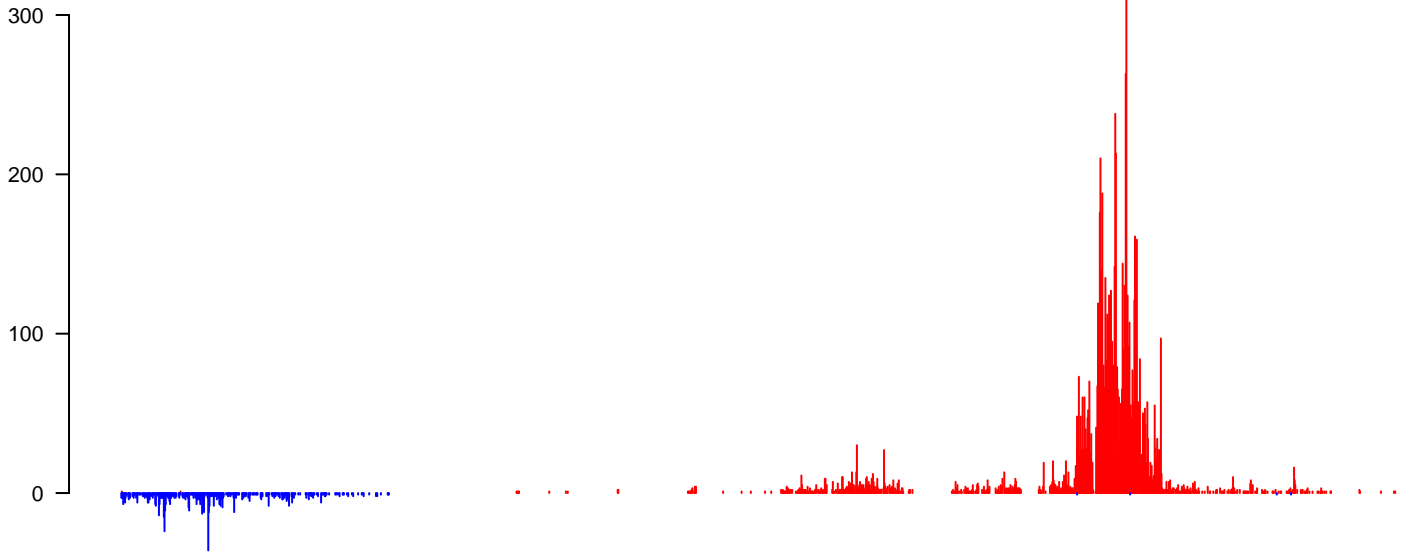
OSS norm. reads



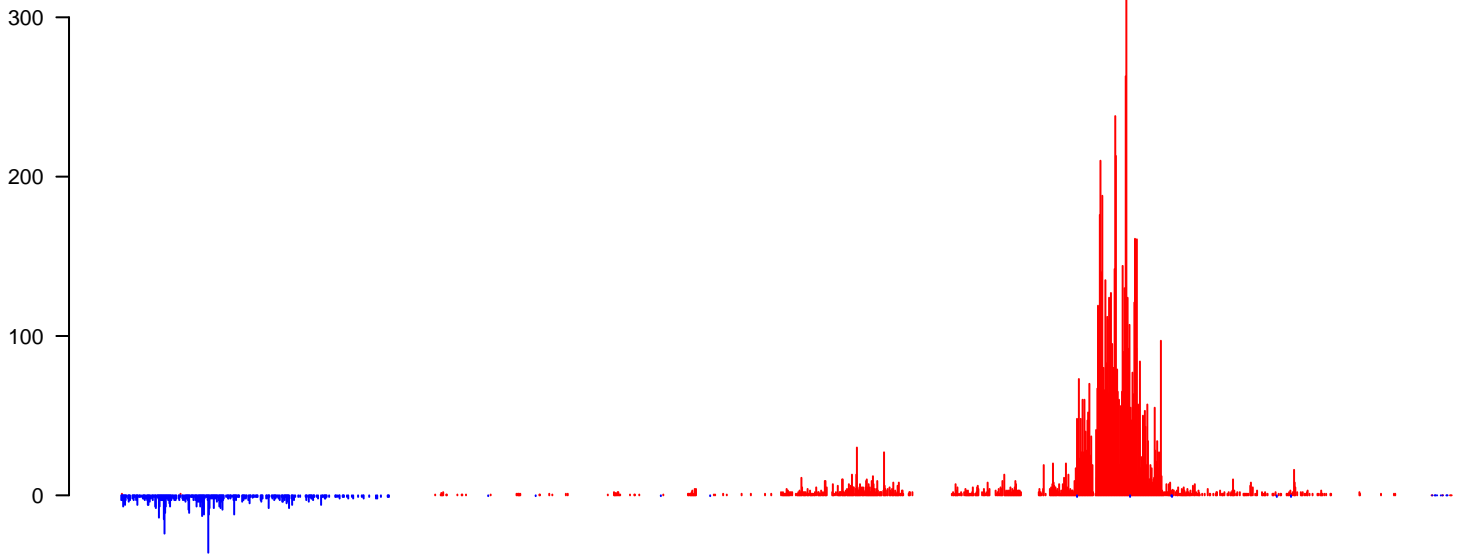
CG6424 2R – 13590749 13606832

OSS unique reads

I(2)gl chr 2L : 9836 – 21372 –



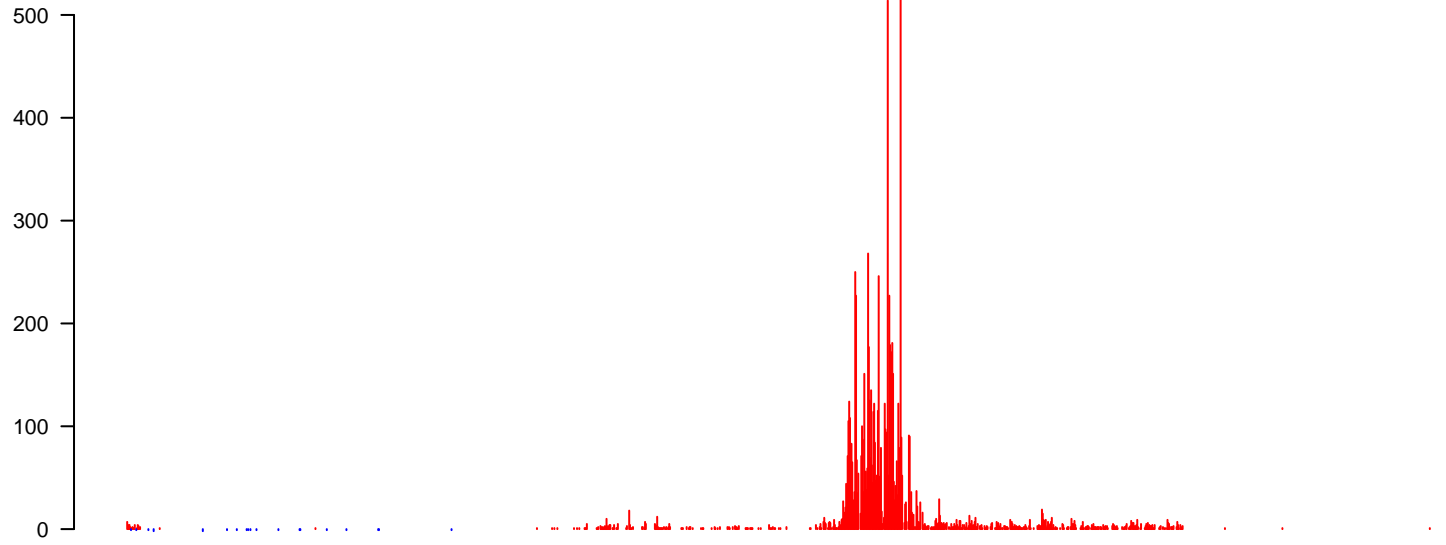
OSS norm. reads



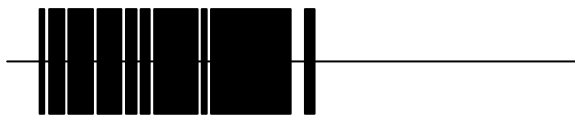
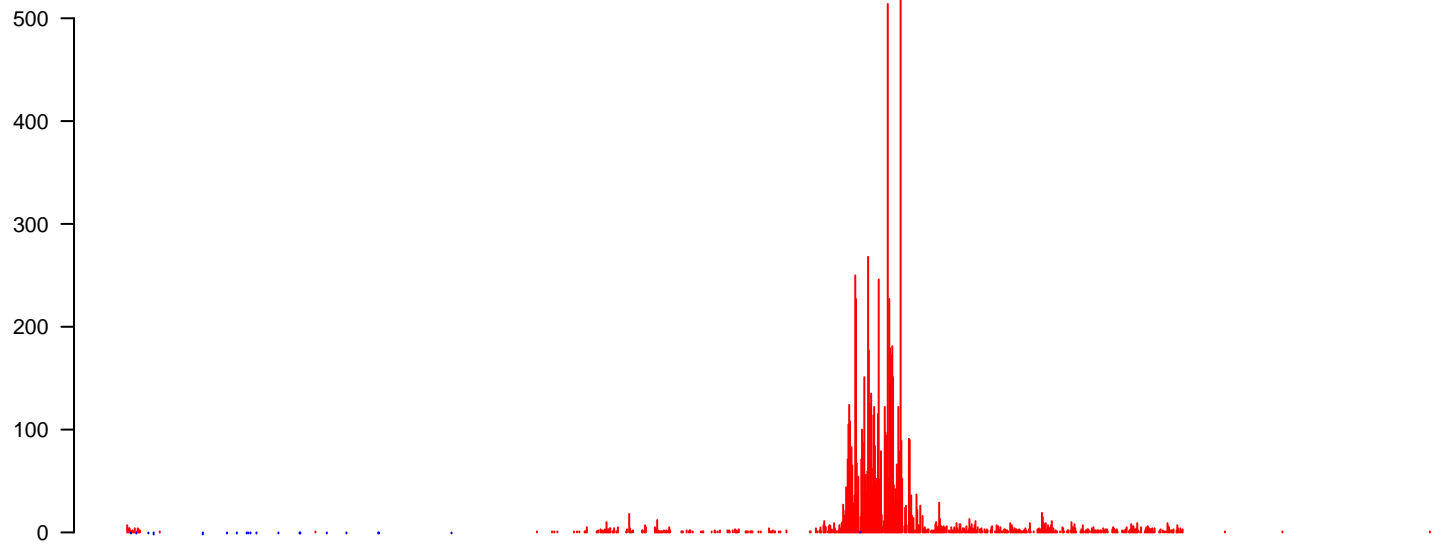
I(2)gl 2L – 9836 21372

OSS unique reads

CG10289 chr 3L : 6159402 – 6166966 –



OSS norm. reads



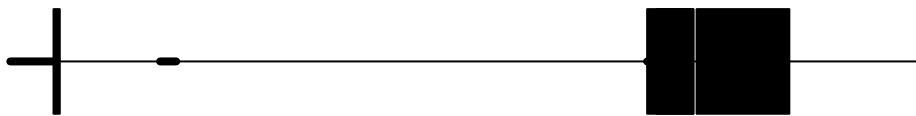
CG10289 3L – 6159402 6166966

OSS unique reads

jog chr X : 19724188 – 19746084 –

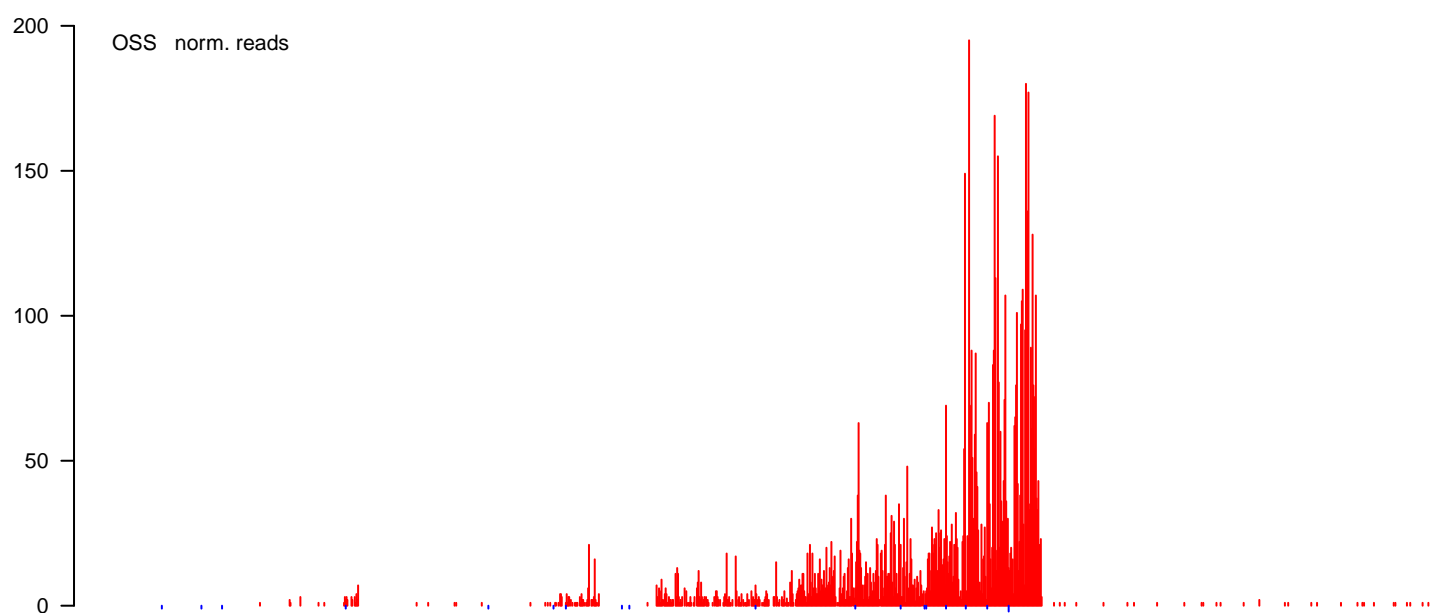
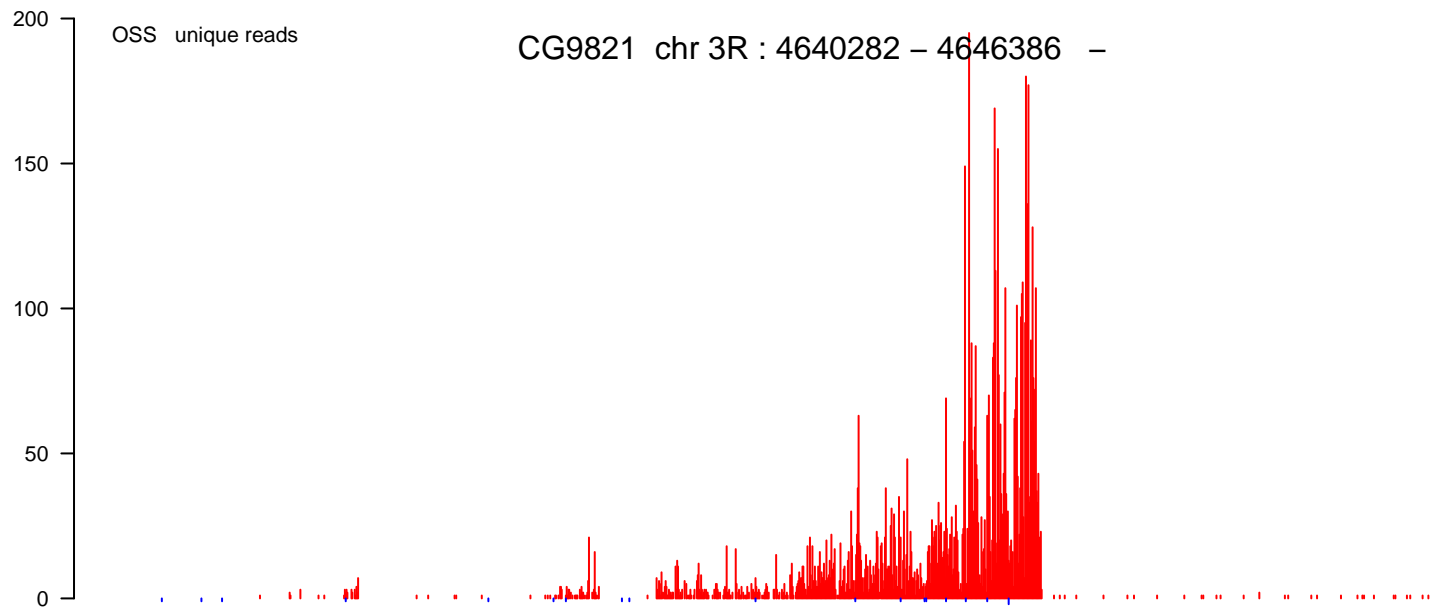


OSS norm. reads

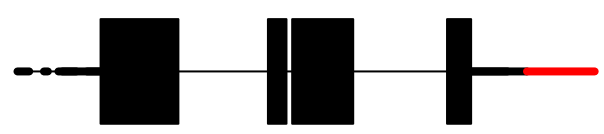
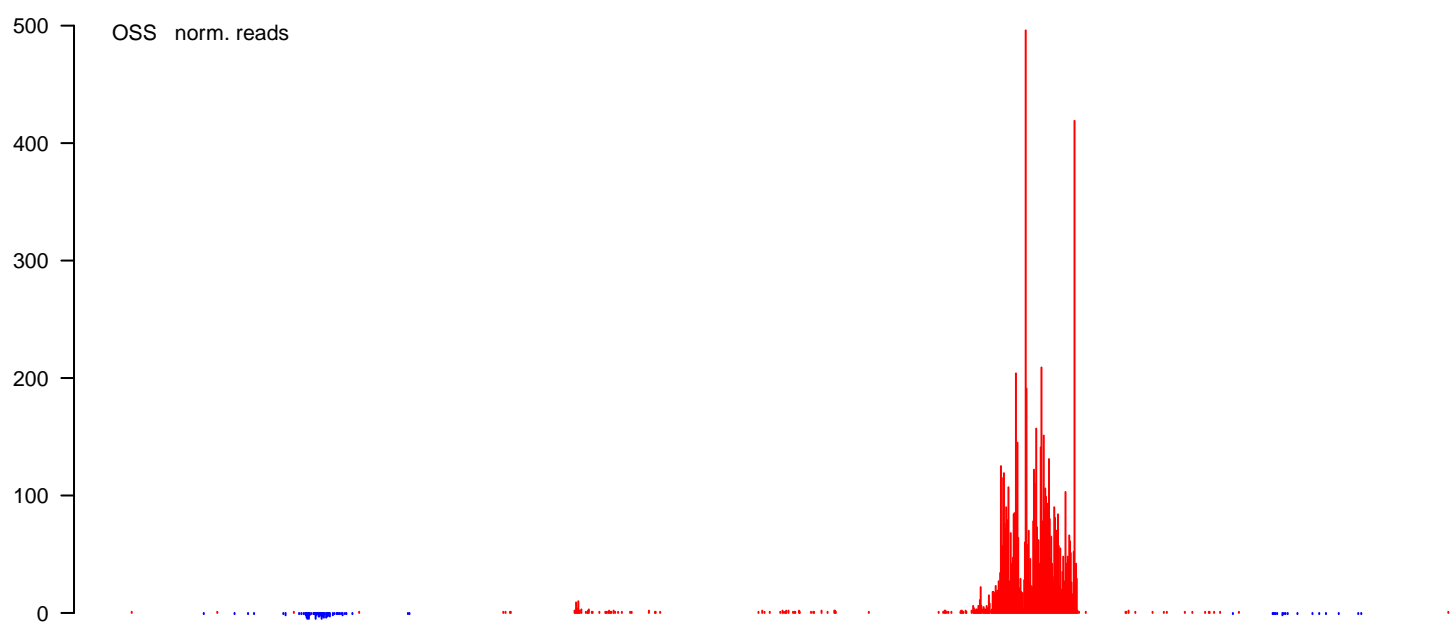
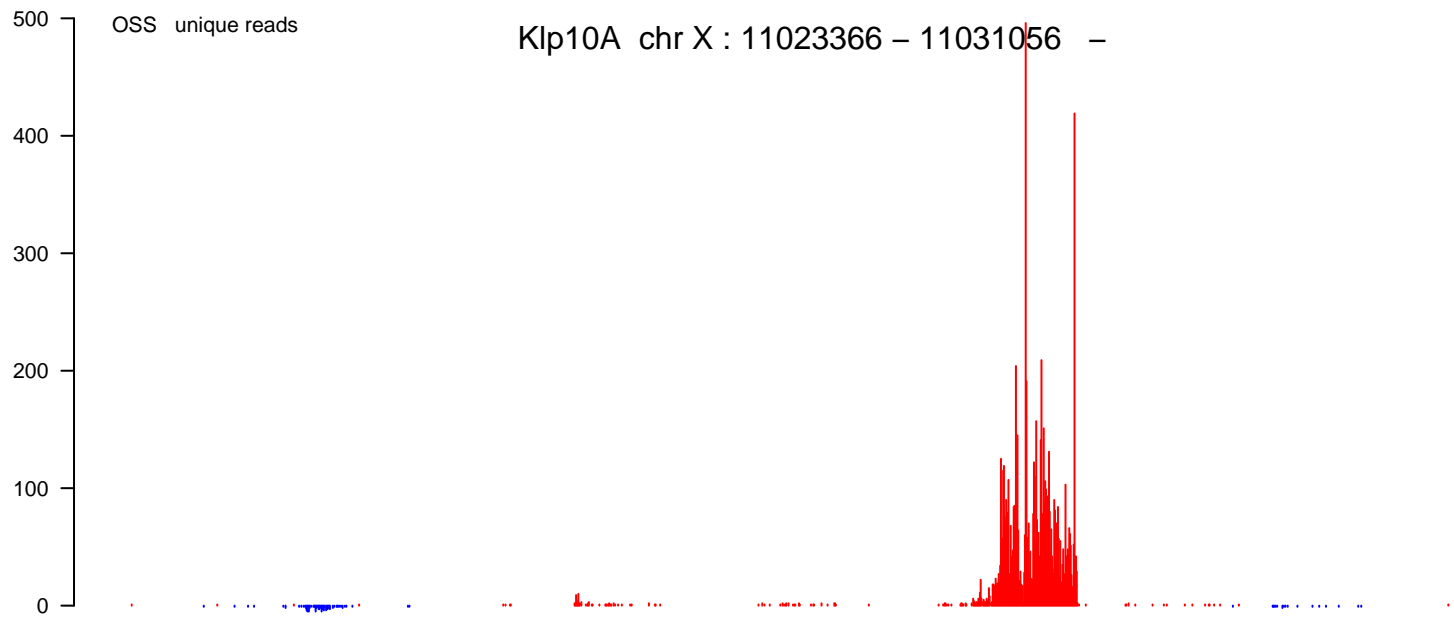


jog X – 19724188 19746084

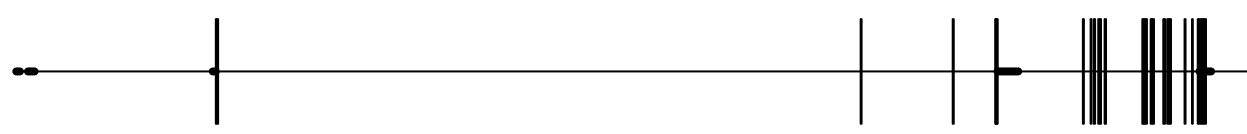
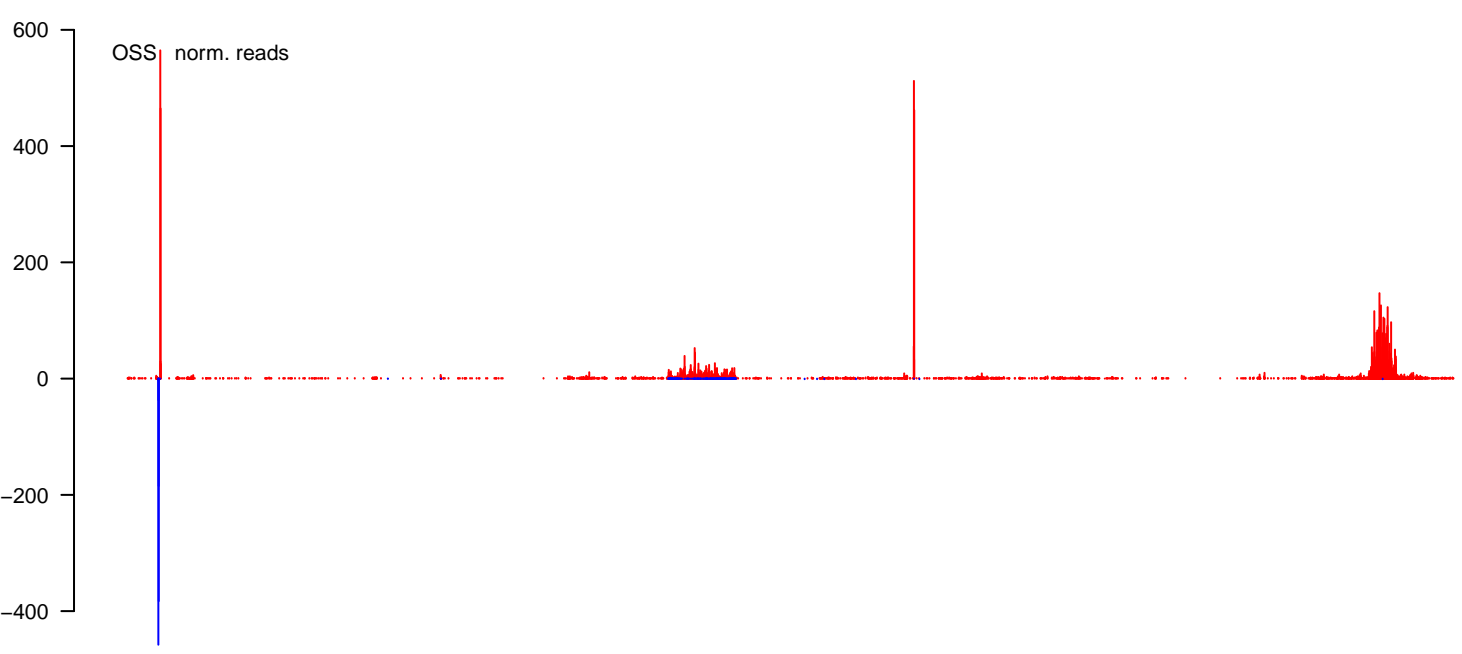
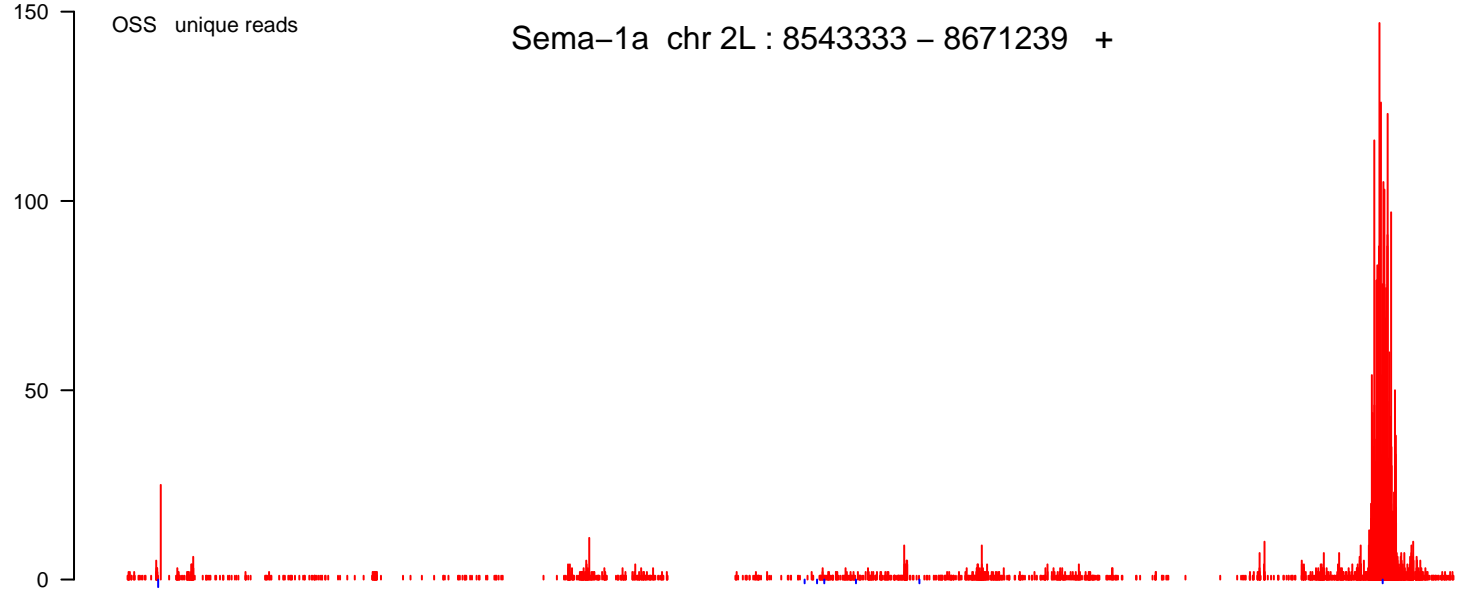




CG9821 3R – 4640282 4646386

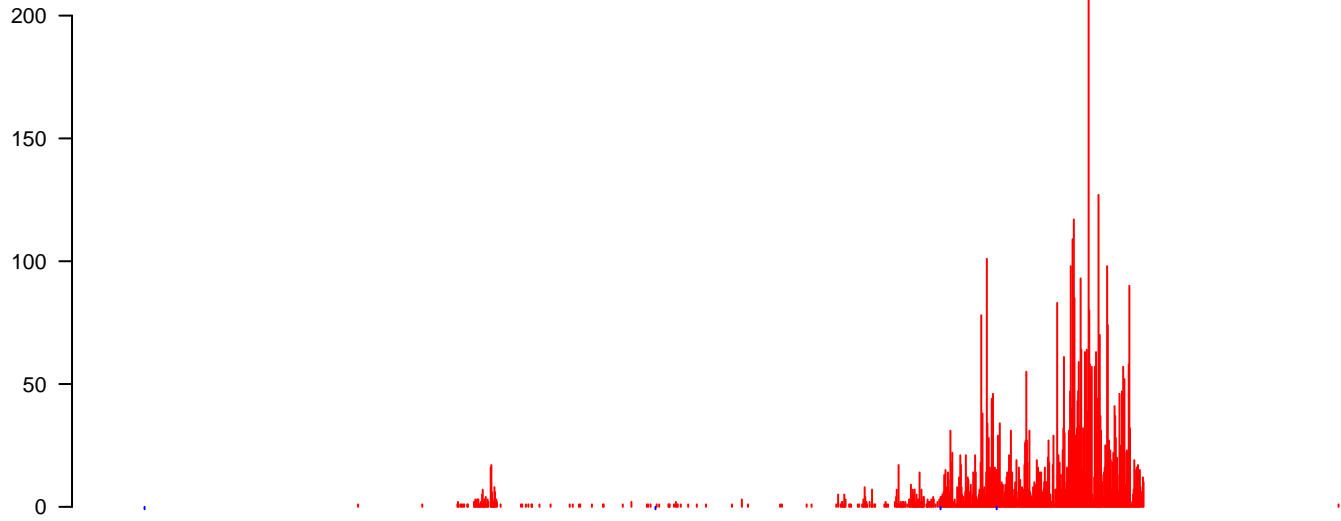


Klp10A X – 11023366 11031056

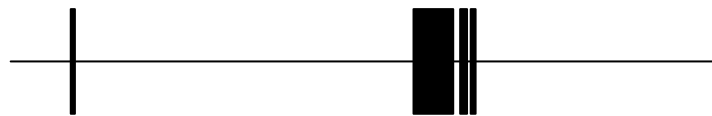
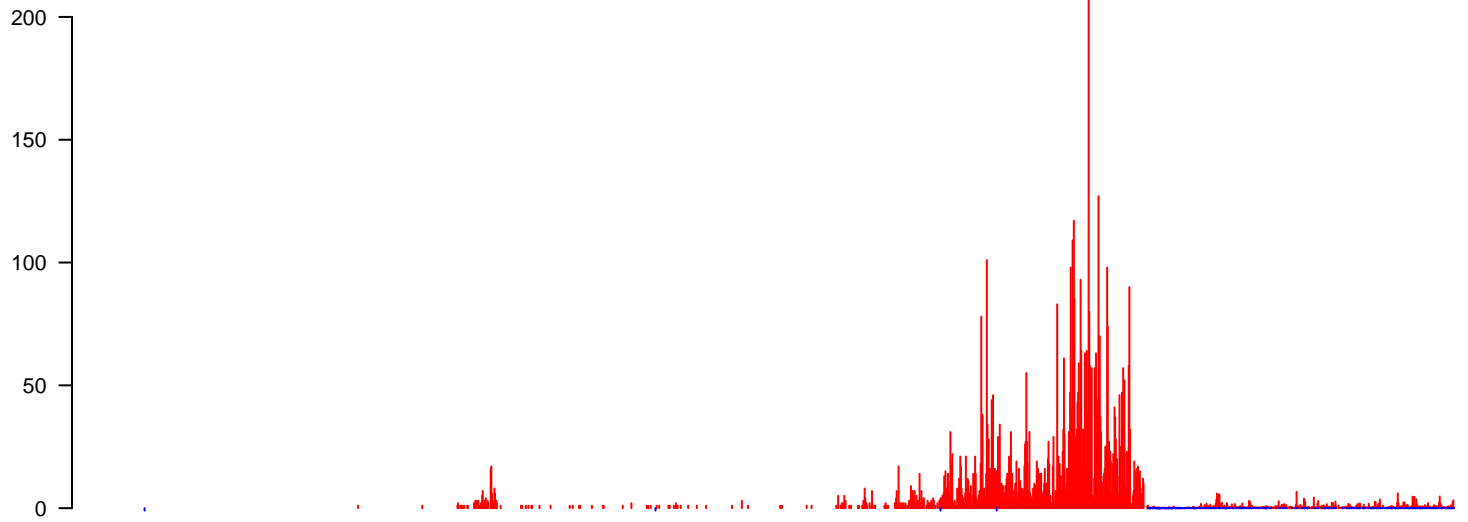


OSS unique reads

chr3L : 11480660 - 11492180 +



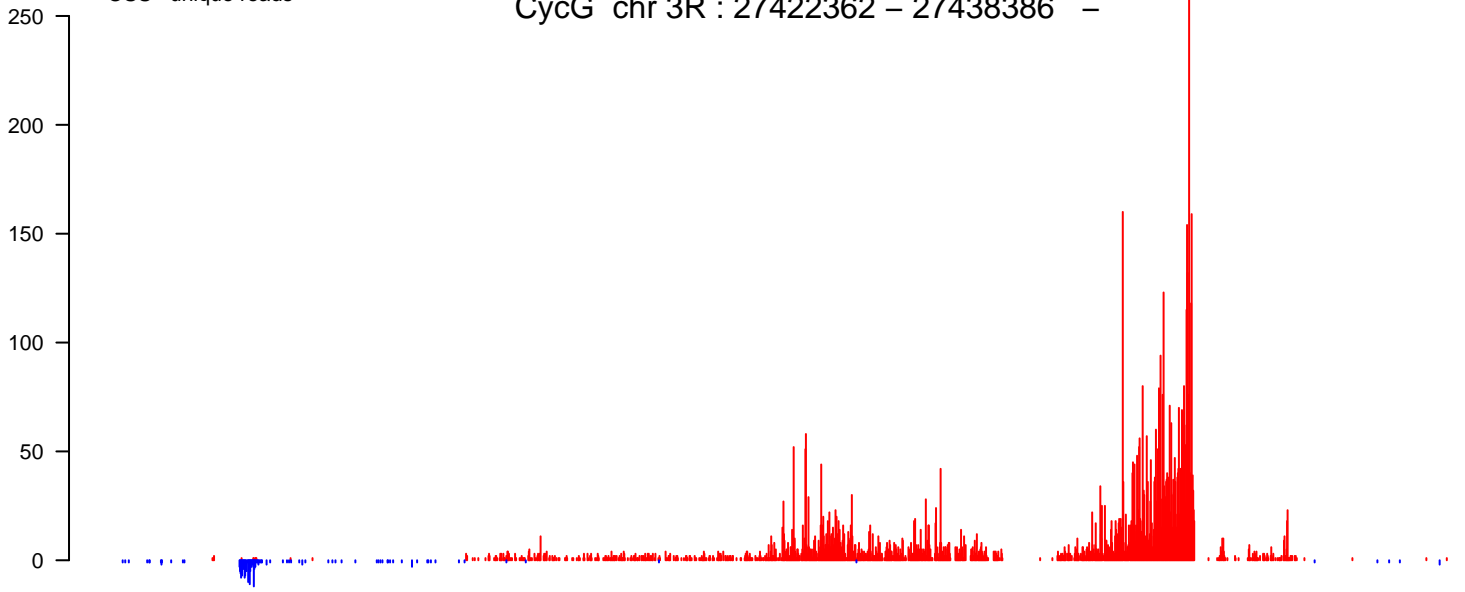
OSS norm. reads



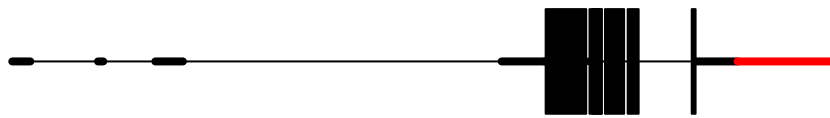
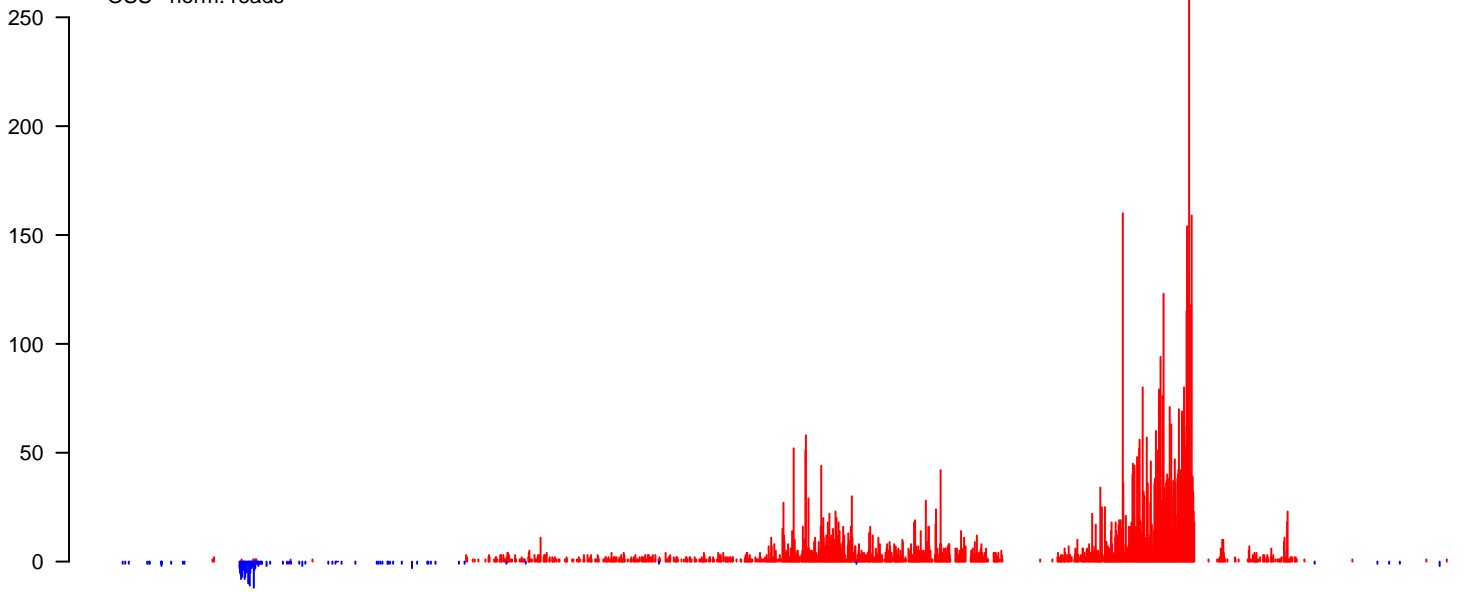
chr3L + 11480660 11492180

OSS unique reads

CycG chr 3R : 27422362 – 27438386 –



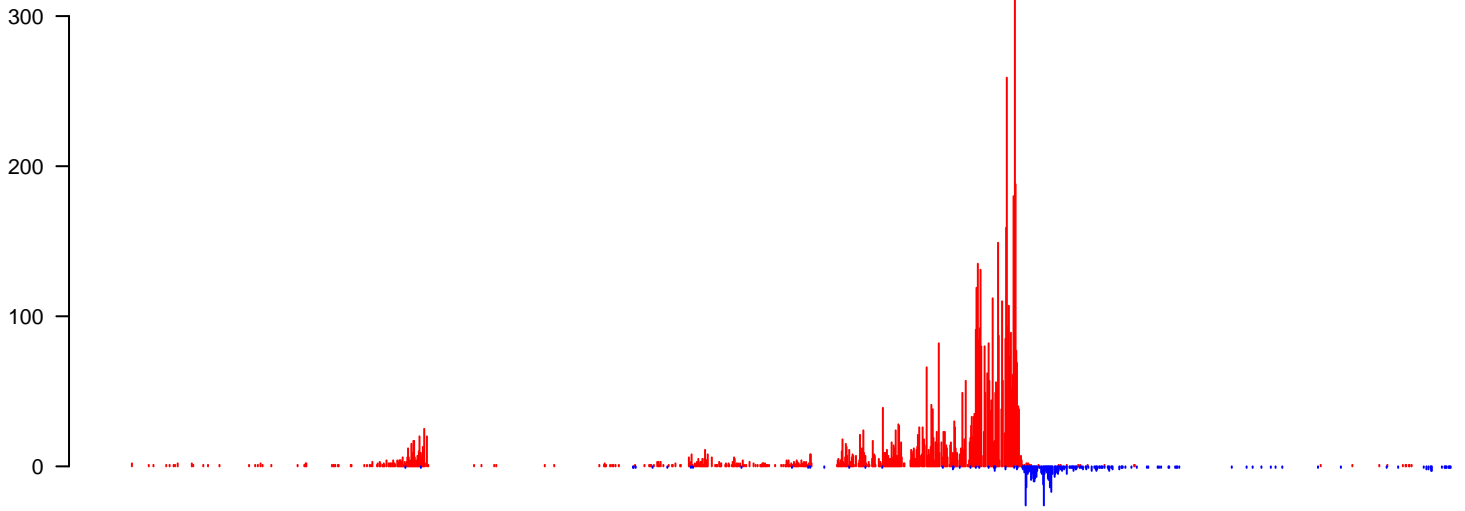
OSS norm. reads



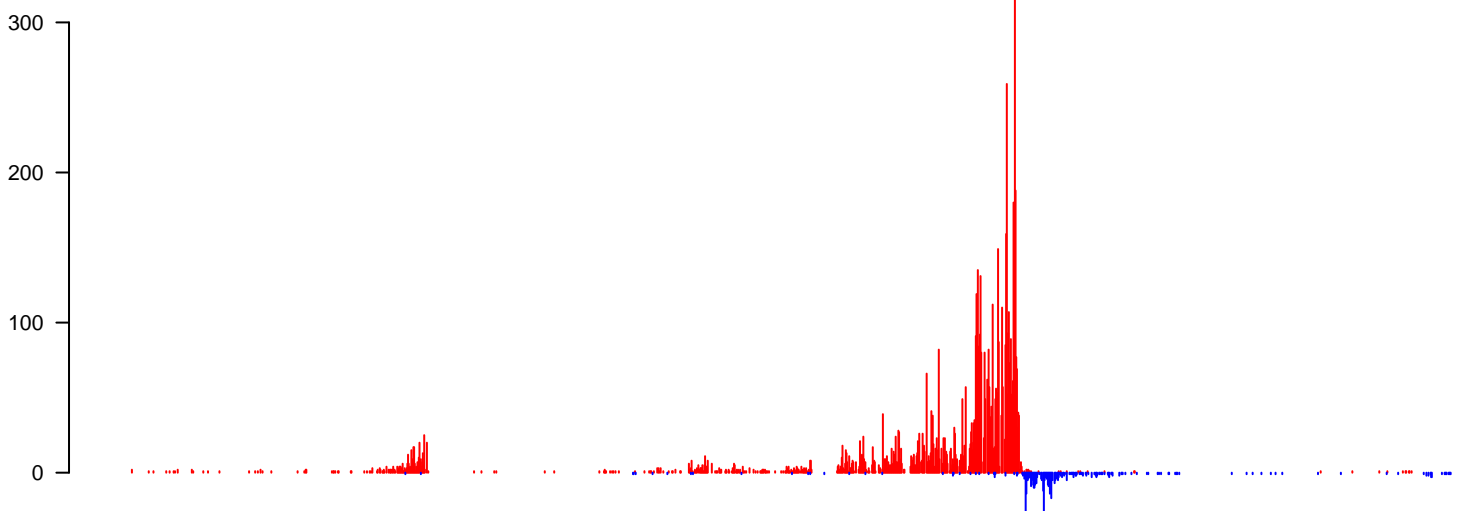
CycG 3R – 27422362 27438386

OSS unique reads

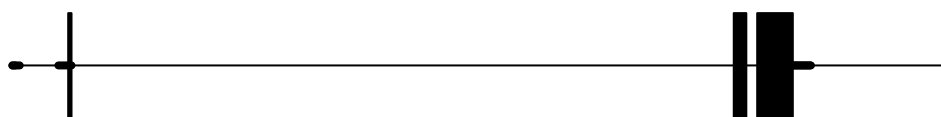
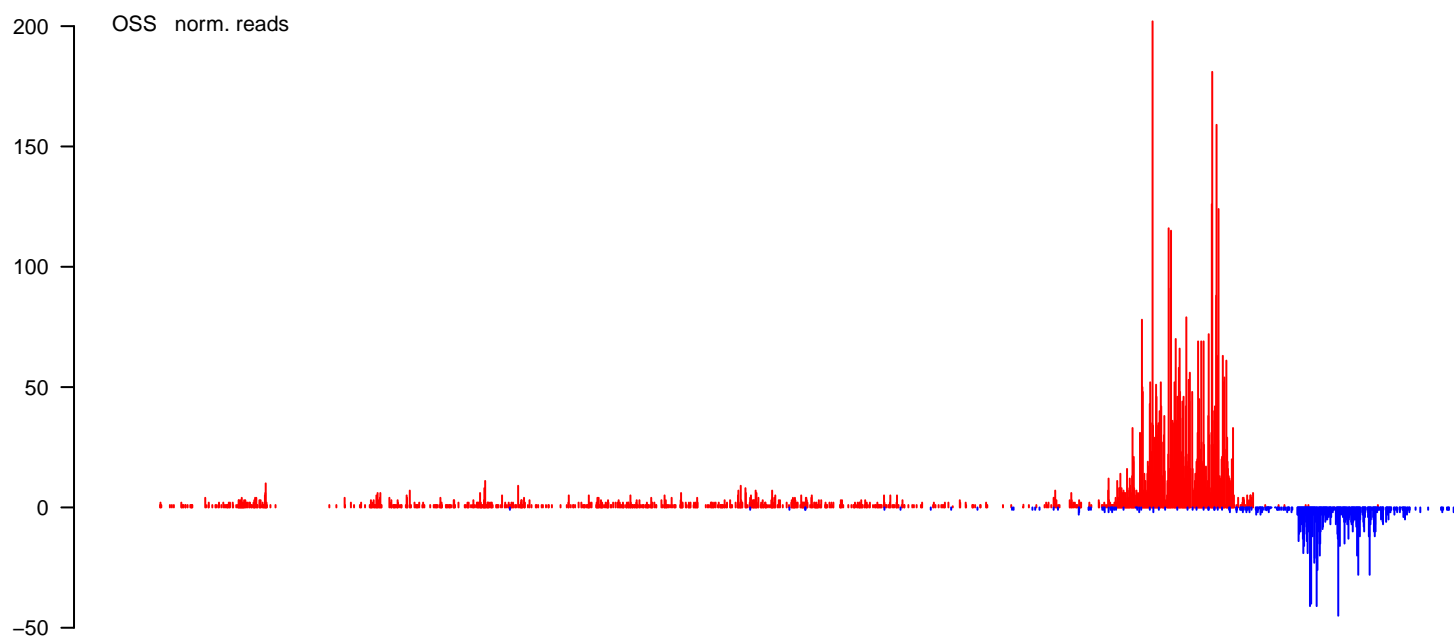
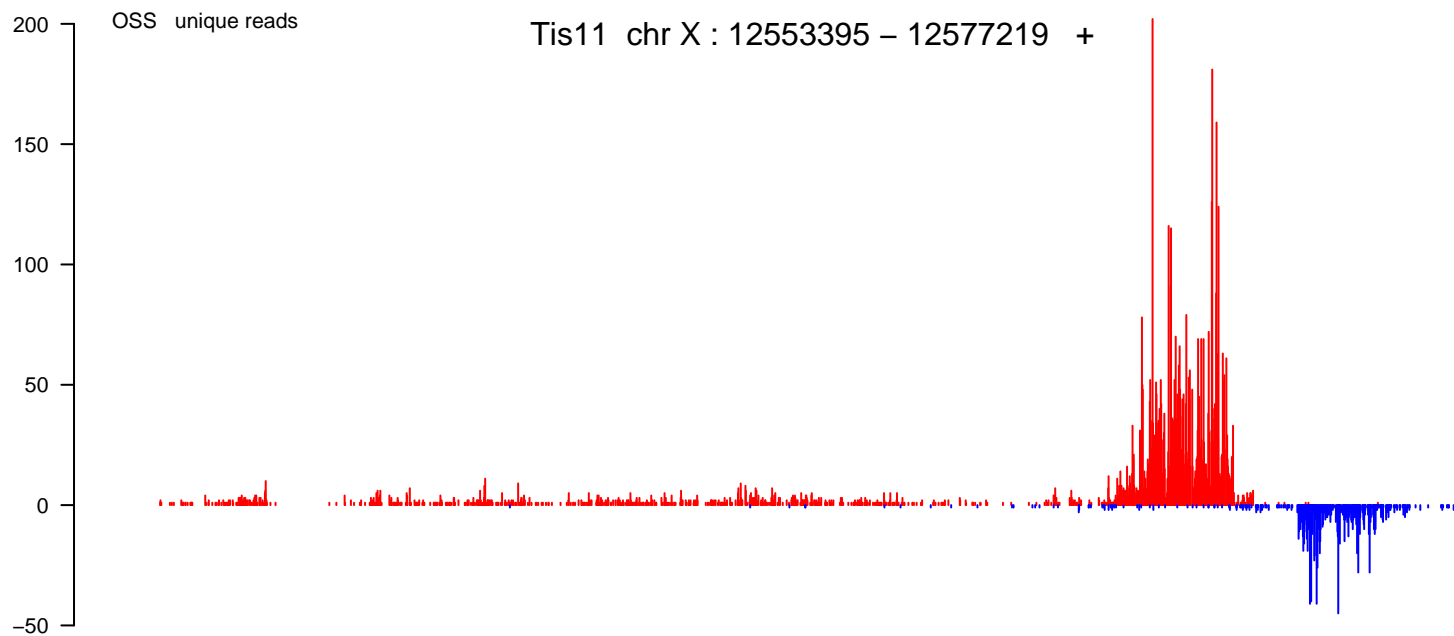
kel chr 2L : 18128495 – 18138210 –



OSS norm. reads



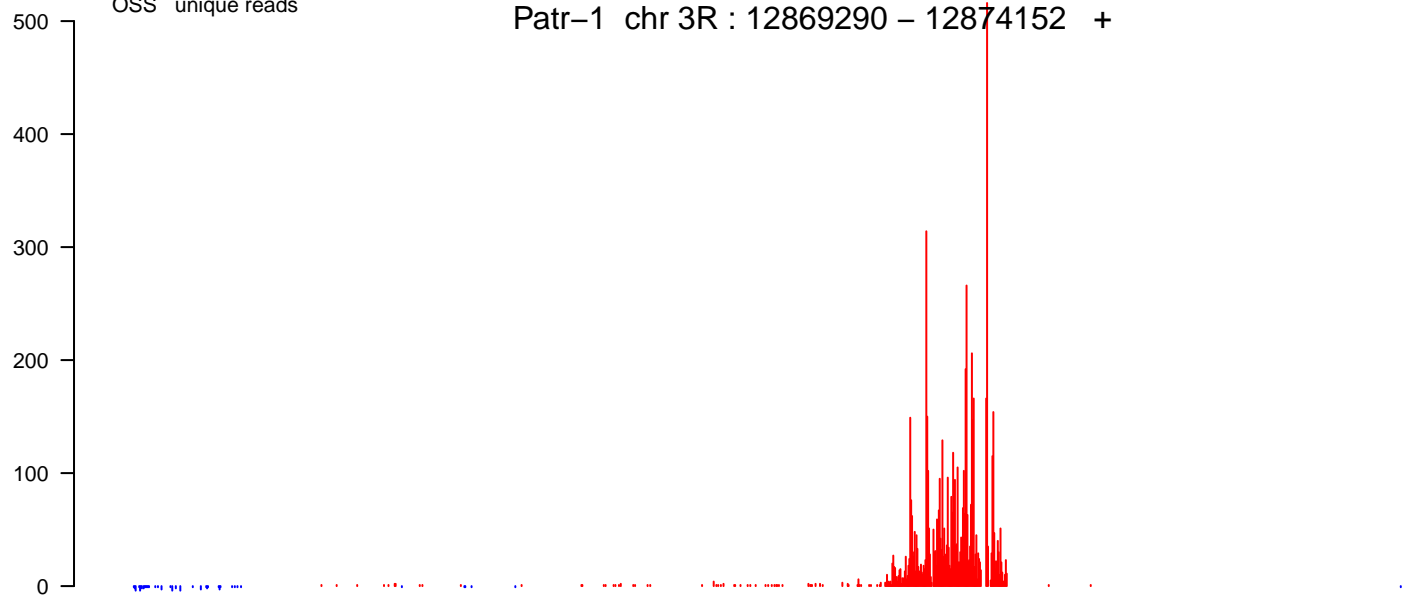
kel 2L – 18128495 18138210



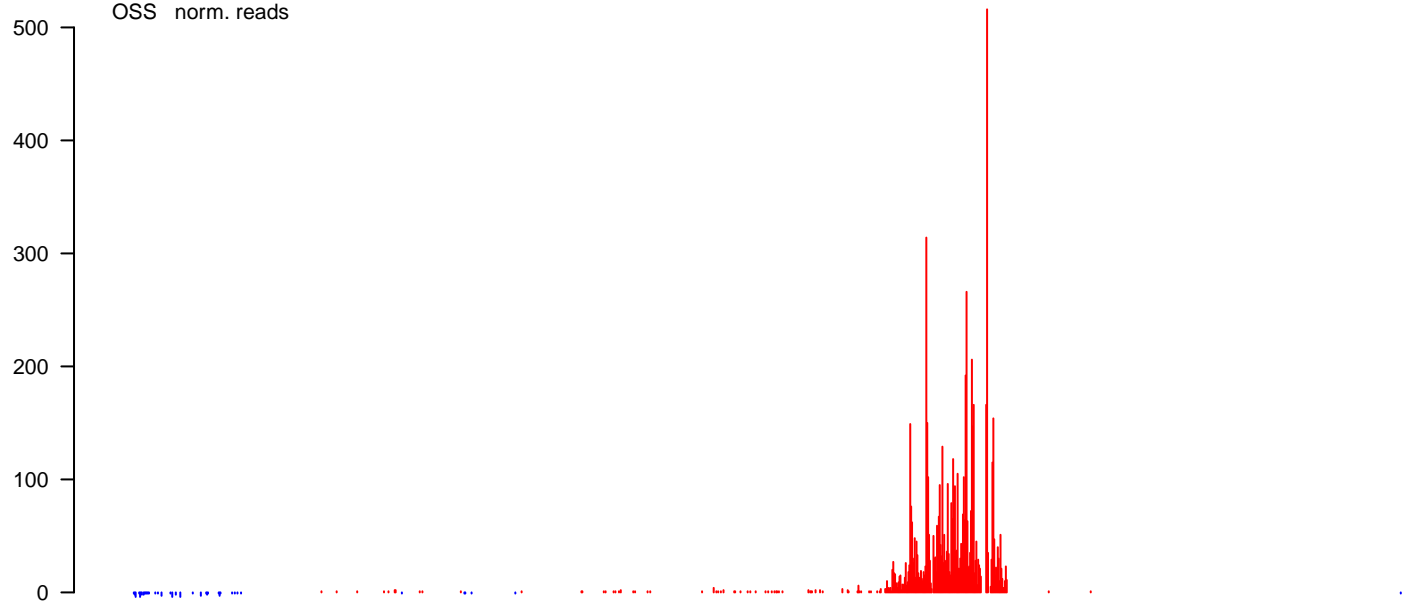
Tis11 X + 12553395 12577219

OSS unique reads

Patr-1 chr 3R : 12869290 - 12874152 +

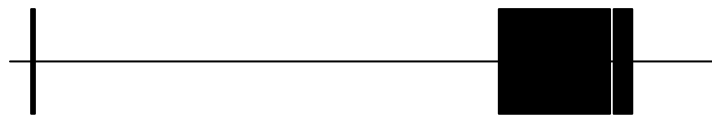
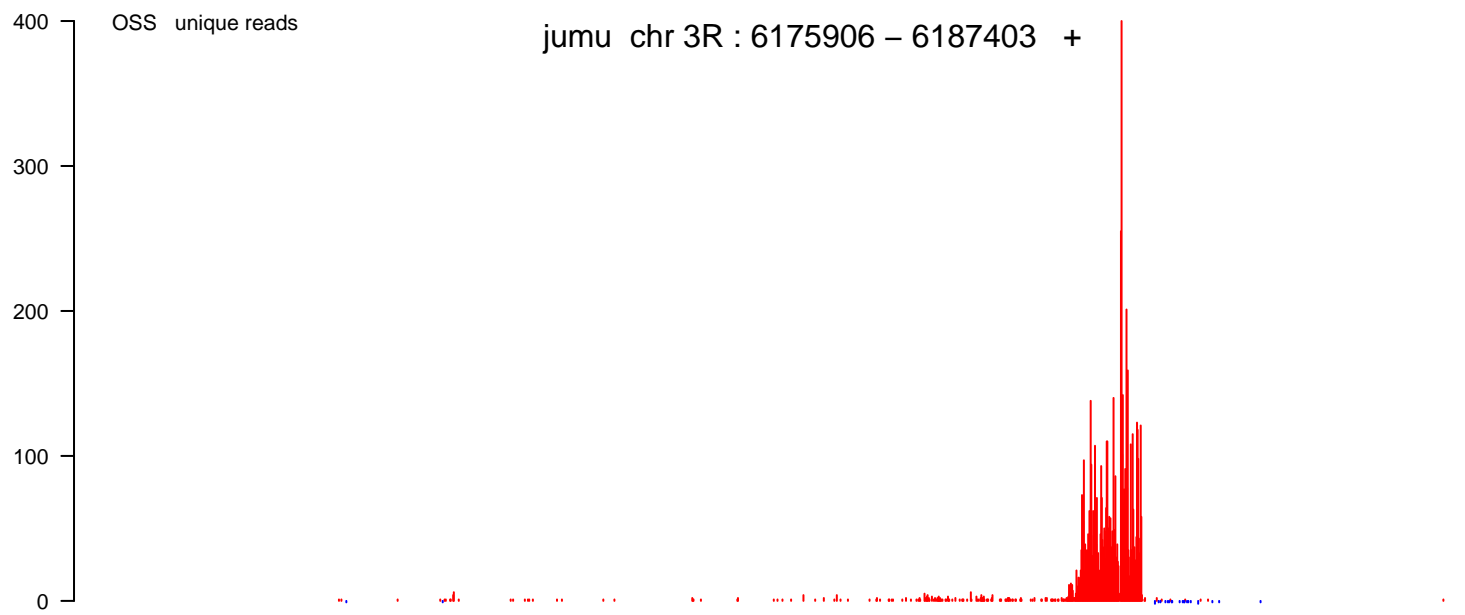


OSS norm. reads



Patr-1 3R + 12869290 12874152

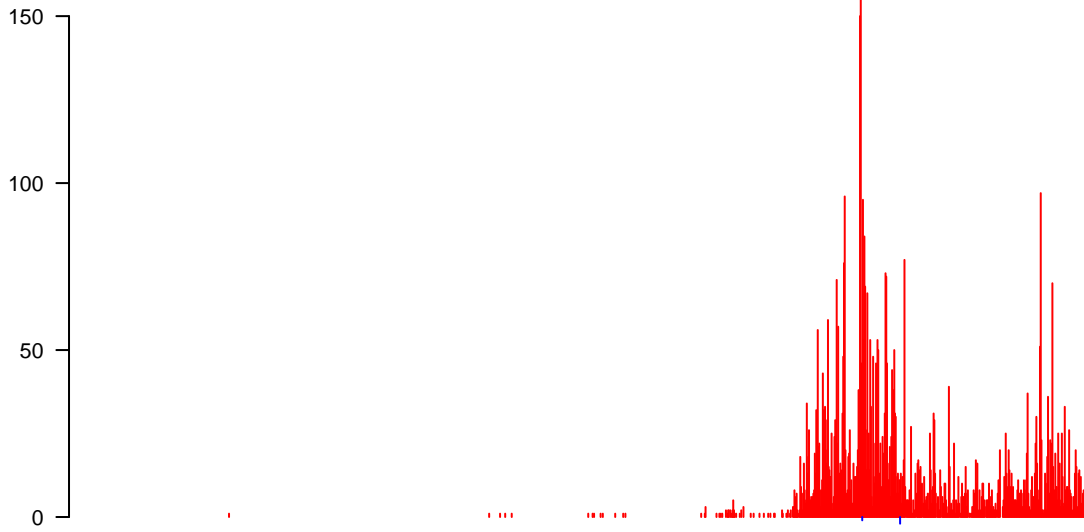




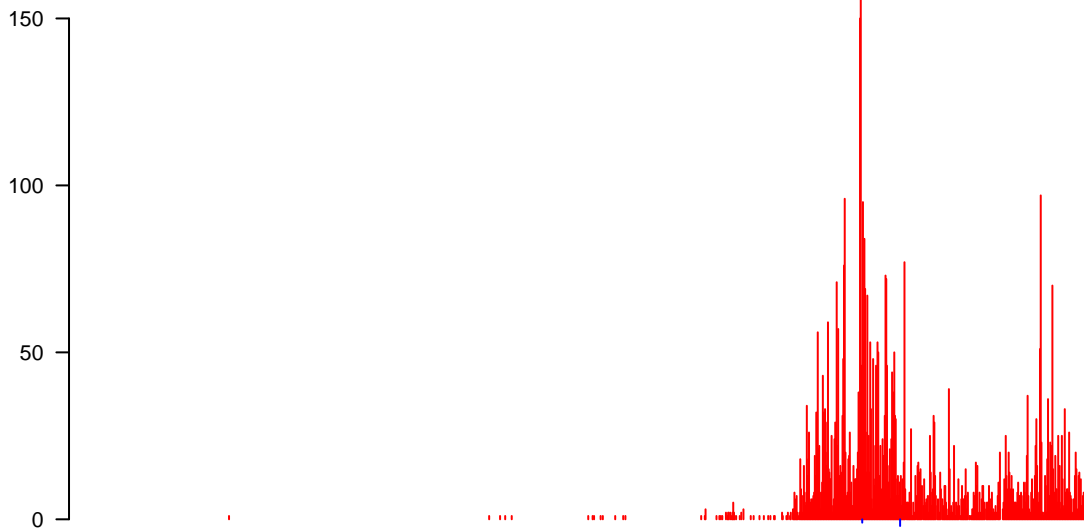
jumu 3R + 6175906 6187403

OSS unique reads

unk chr 3R : 18975368 – 18983592 –



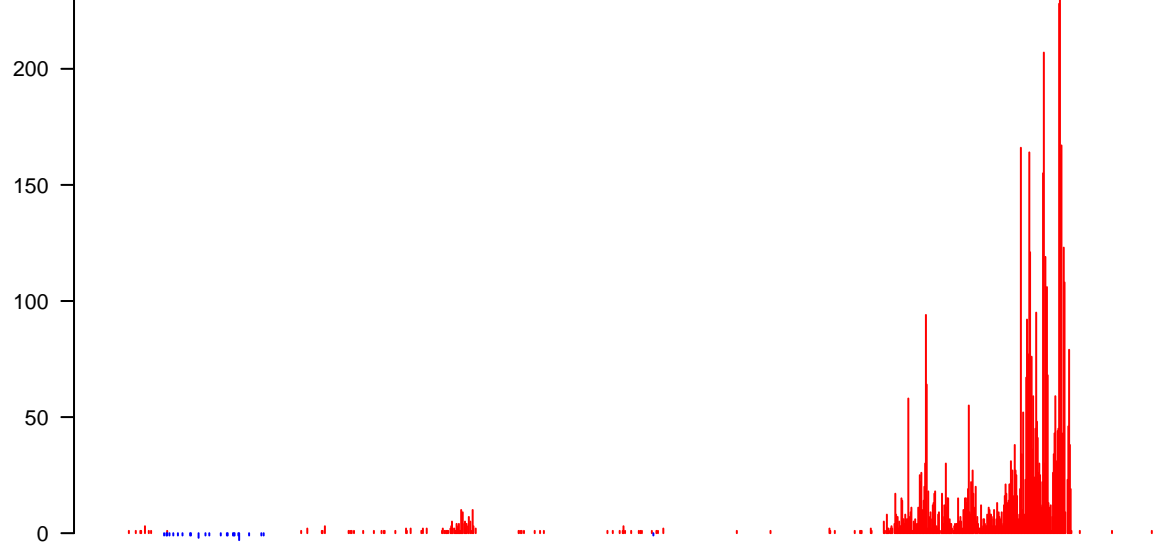
OSS norm. reads



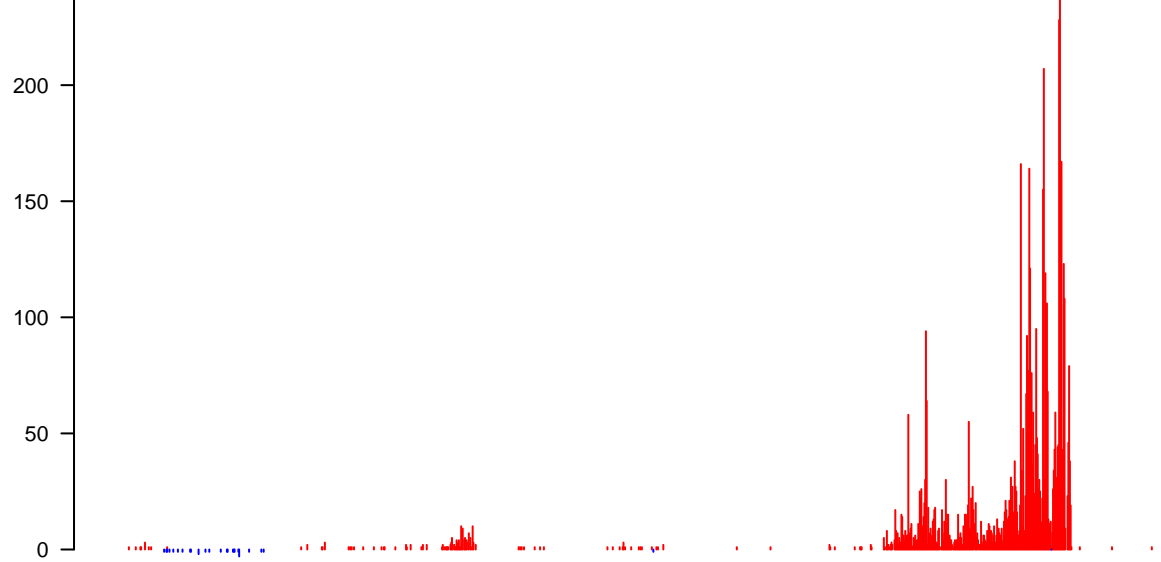
unk 3R – 18975368 18983592

OSS unique reads

Pi3K21B chr 2L : 297882 – 305225 +



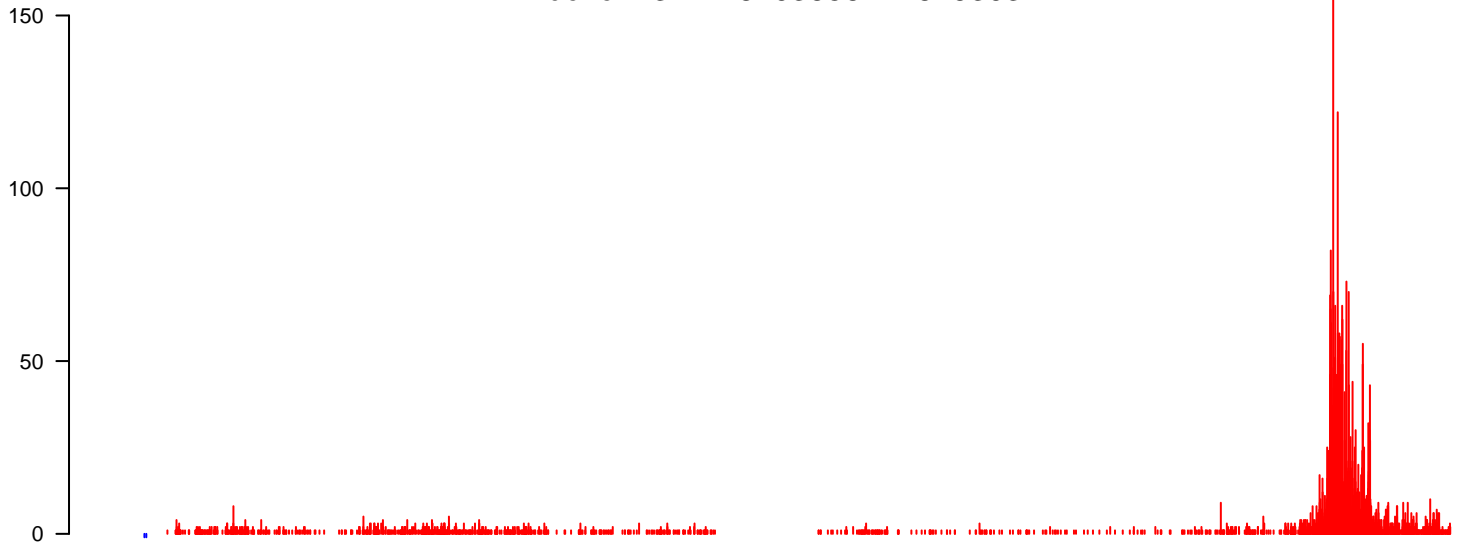
OSS norm. reads



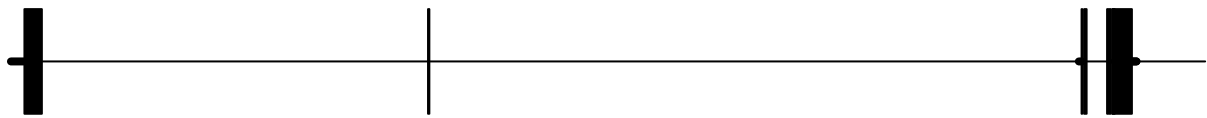
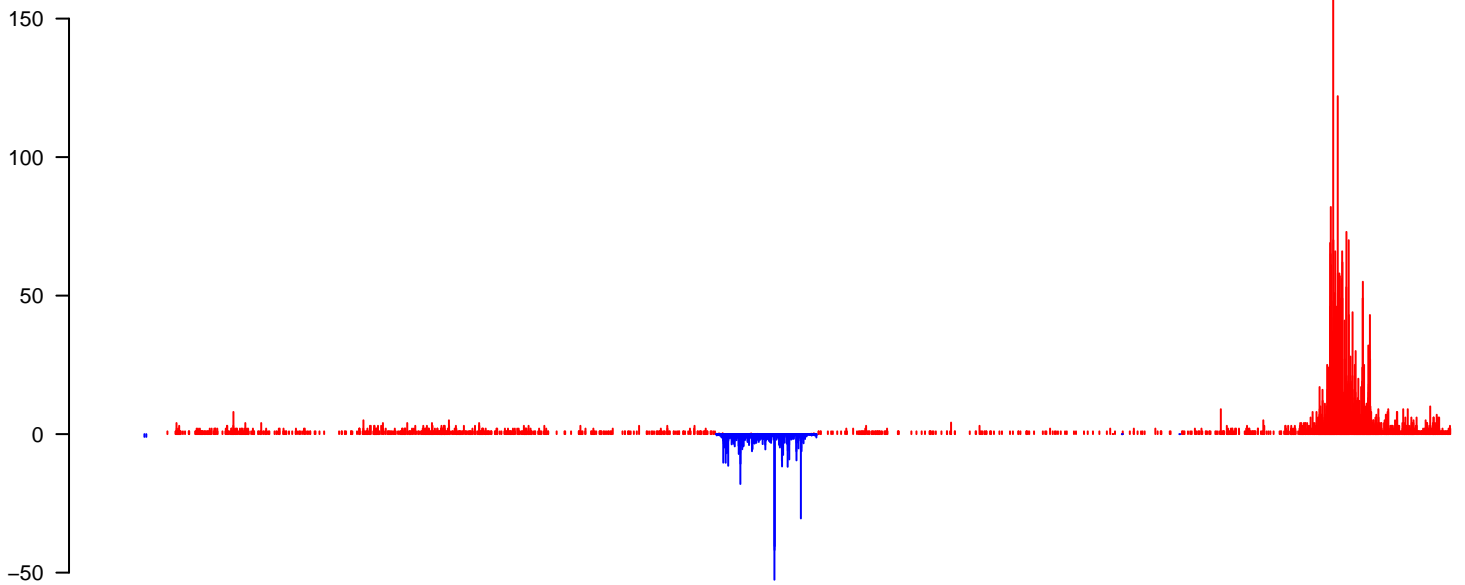
Pi3K21B 2L + 297882 305225

OSS unique reads

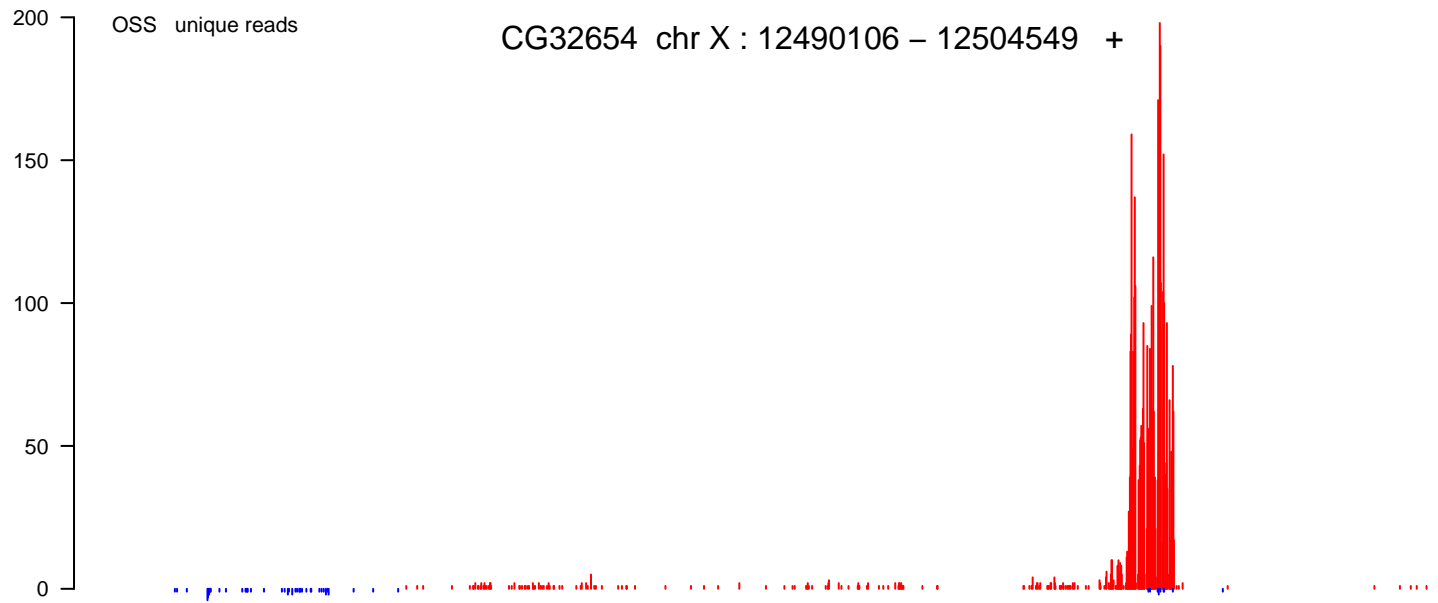
hdc chr 3R : 26103656 – 26193037 +



OSS norm. reads

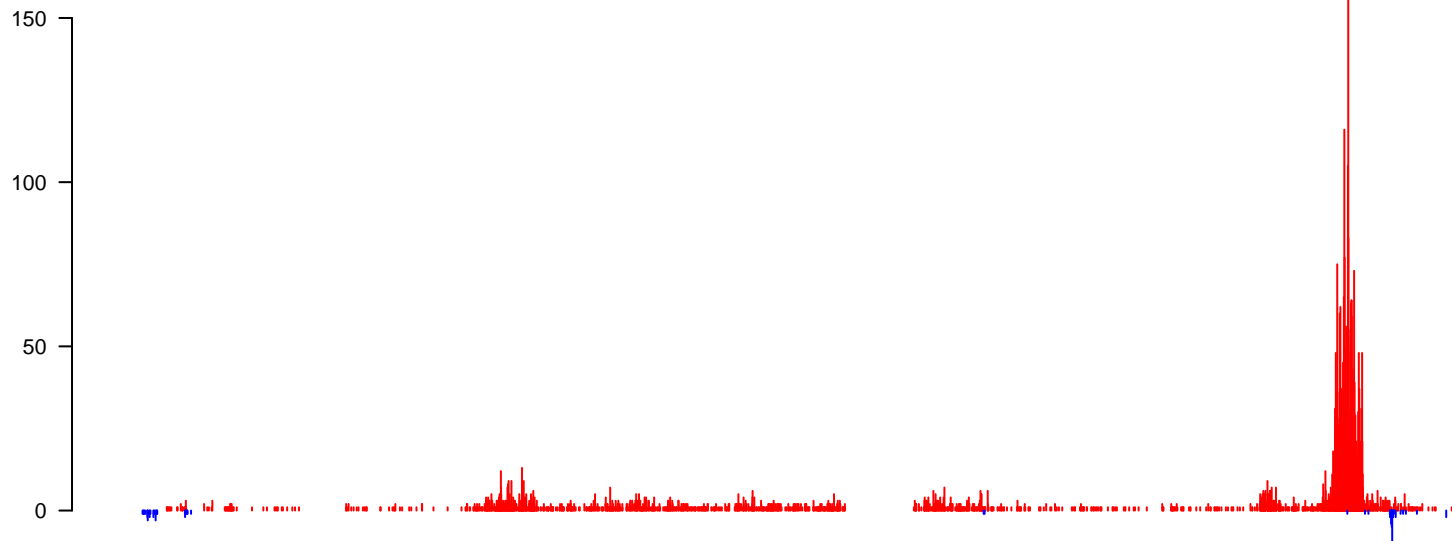


hdc 3R + 26103656 26193037

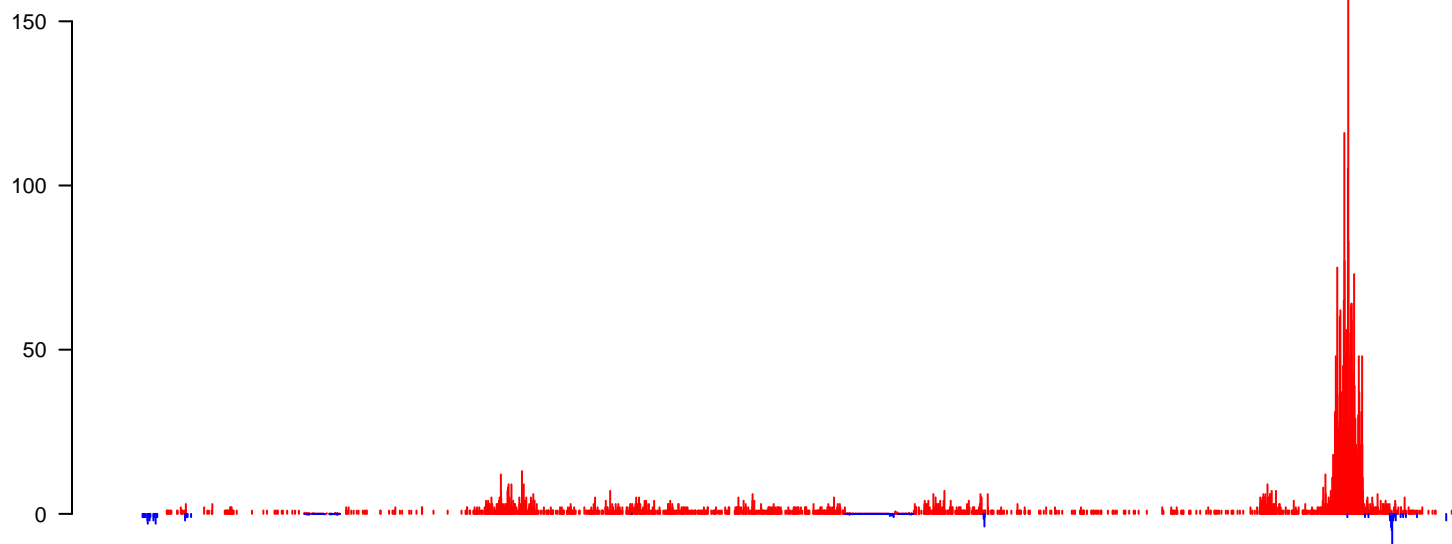


OSS unique reads

nmo chr 3L : 7972149 – 8046455 +



OSS norm. reads



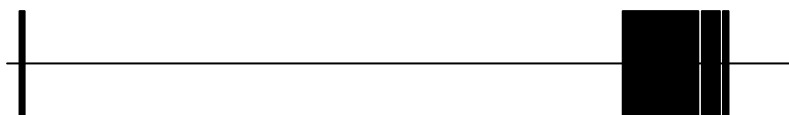
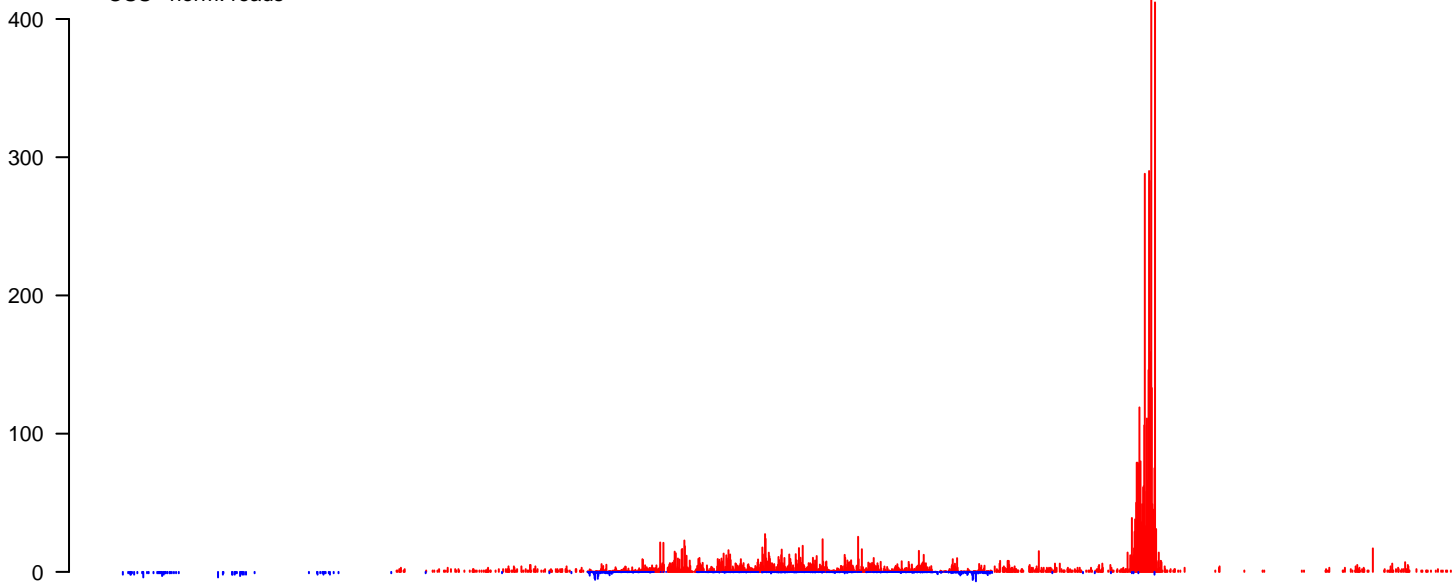
nmo 3L + 7972149 8046455

cue chr 3L : 1502551 – 1517238 –

OSS unique reads



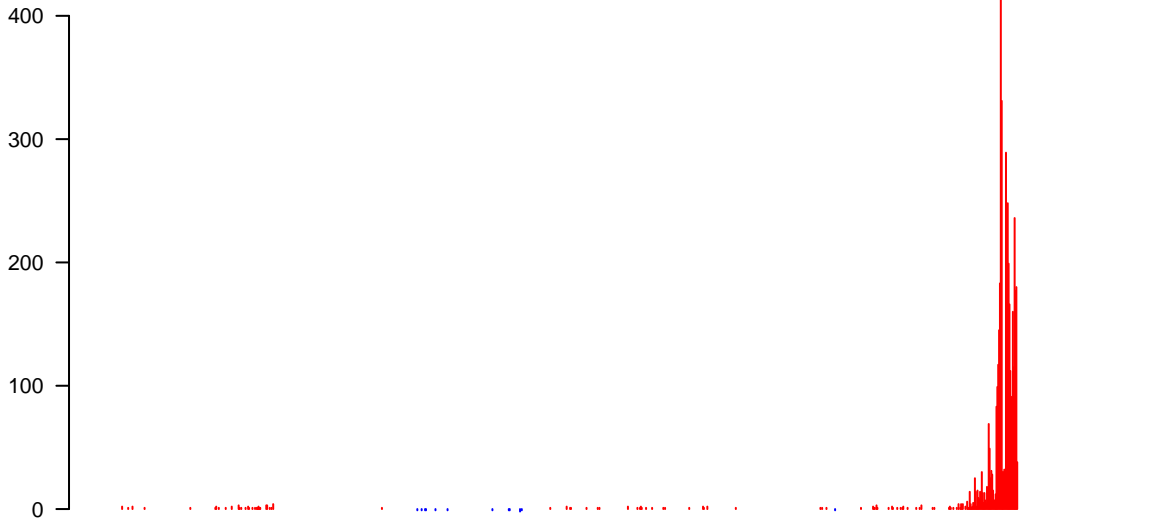
OSS norm. reads



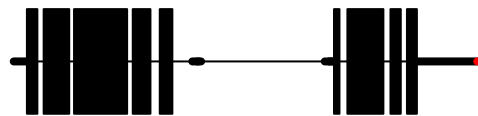
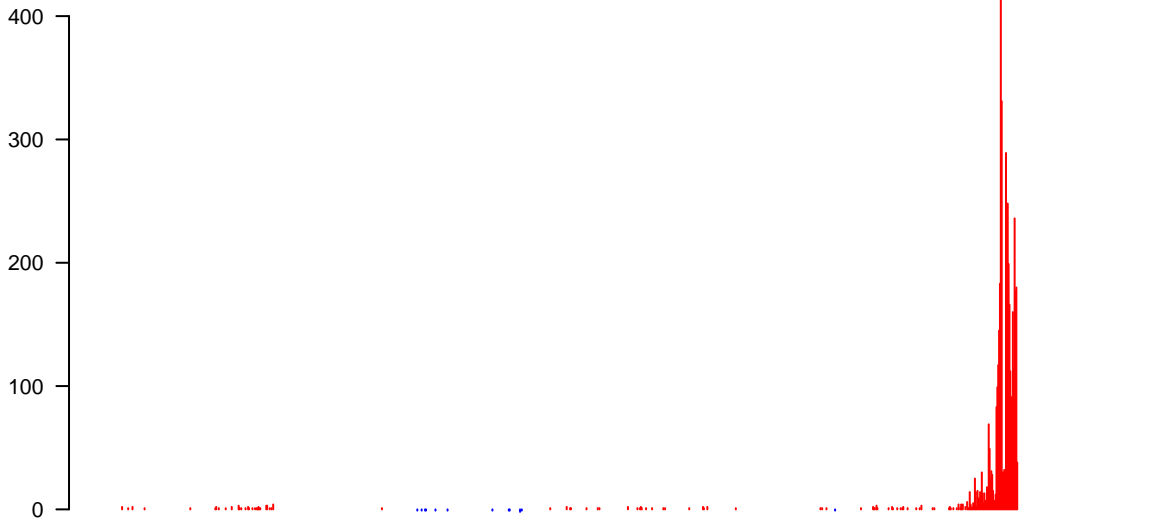
cue 3L – 1502551 1517238

OSS unique reads

CG33129 chr 2L : 10964891 – 10970275 –



OSS norm. reads

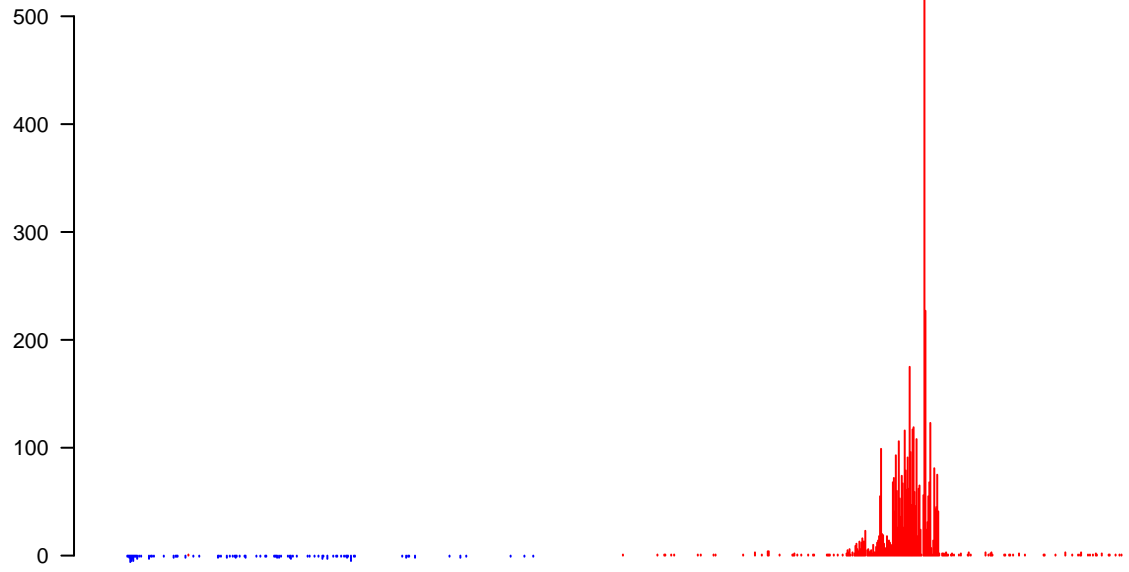


CG33129 2L – 10964891 10970275

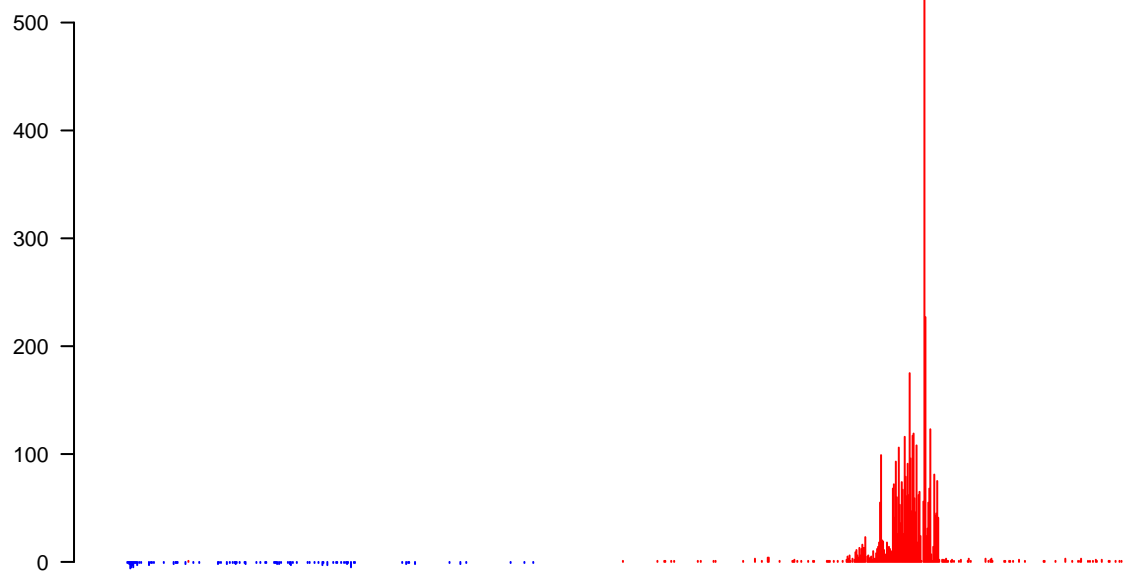


OSS unique reads

Art4 chr 3R : 5808300 – 5811777 –



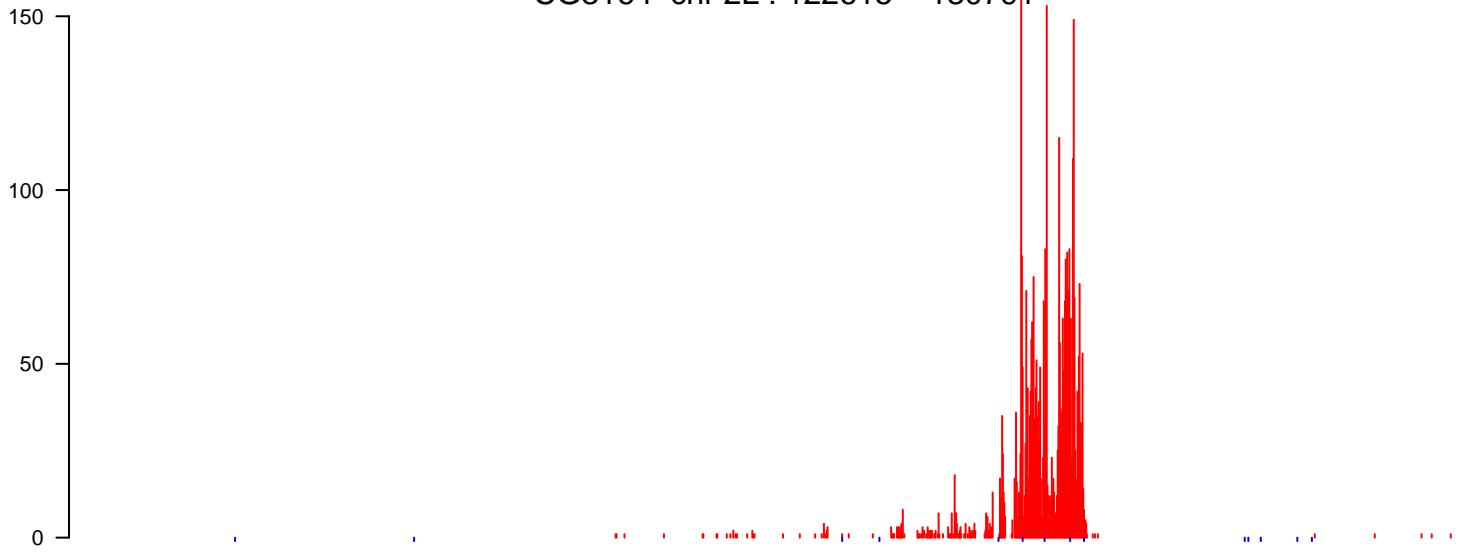
OSS norm. reads



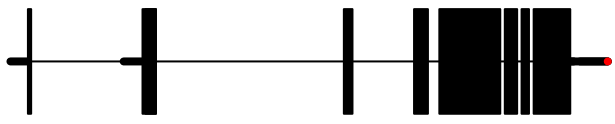
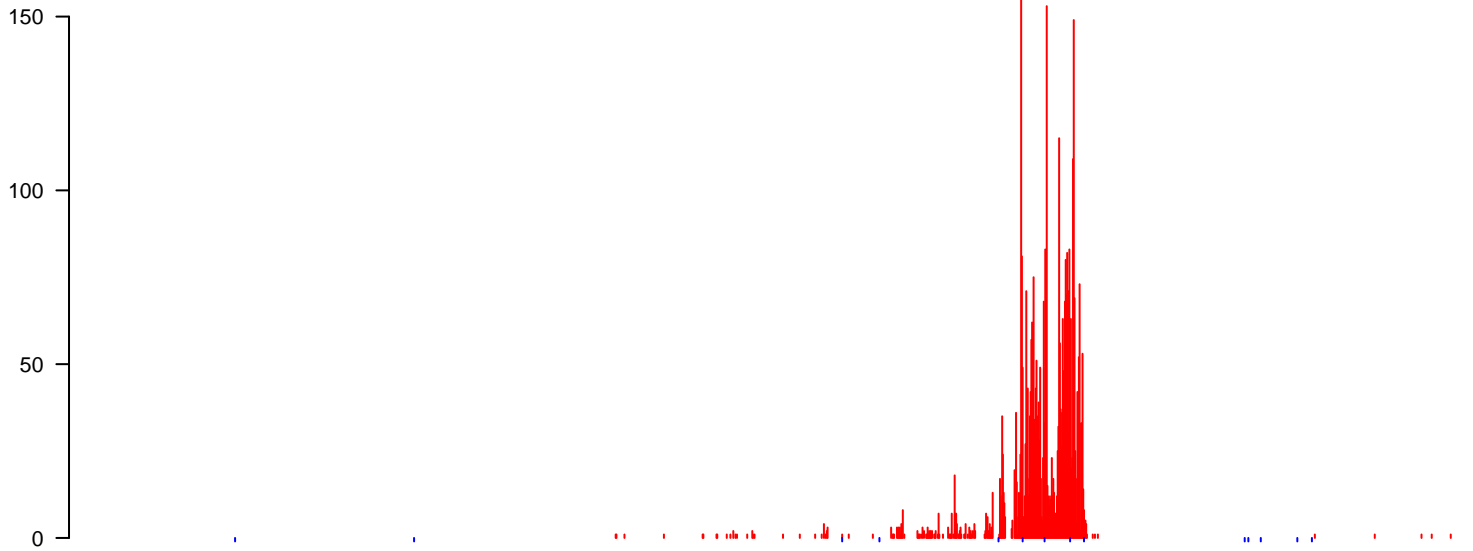
Art4 3R – 5808300 5811777

OSS unique reads

CG3164 chr 2L : 122615 – 130791 –

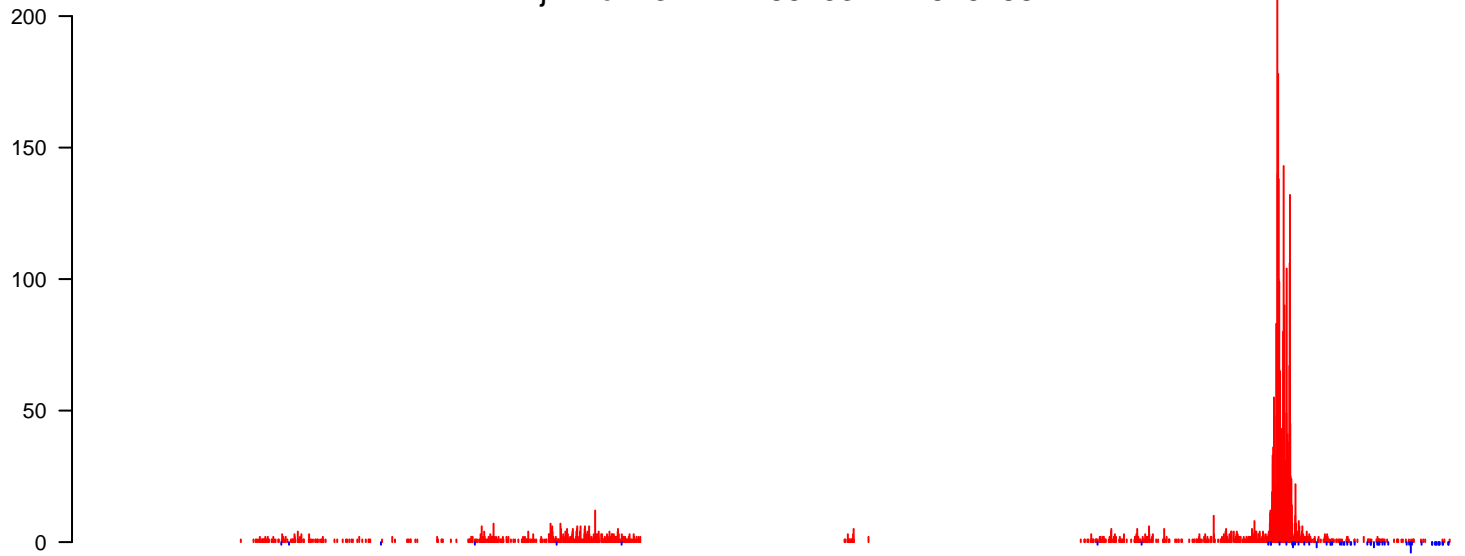


OSS norm. reads

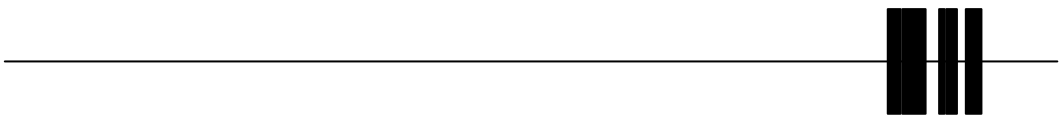
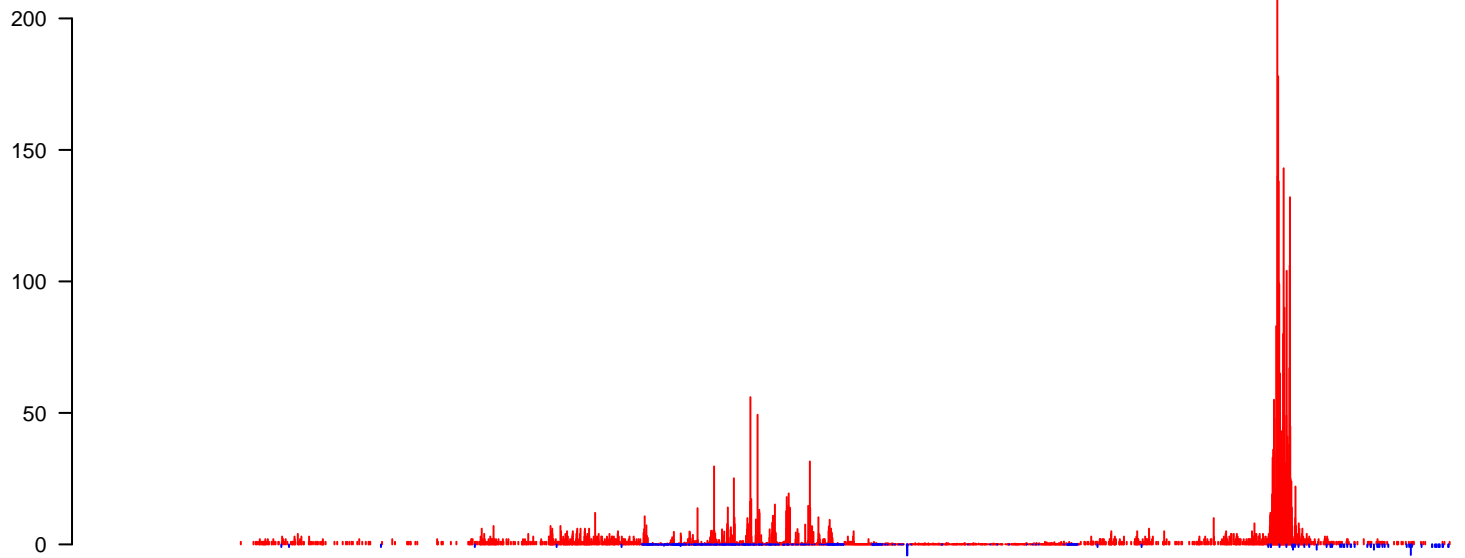


OSS unique reads

jim chr 3L : 22788253 – 22826488 –

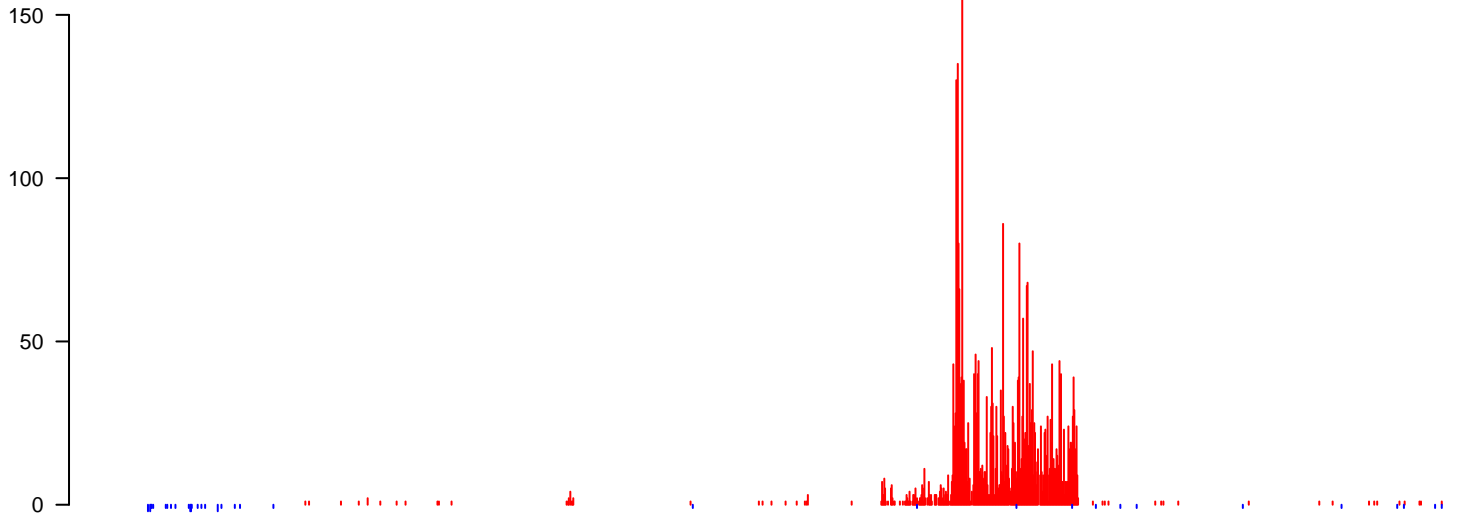


OSS norm. reads

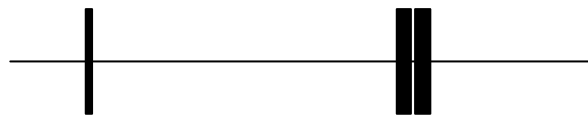
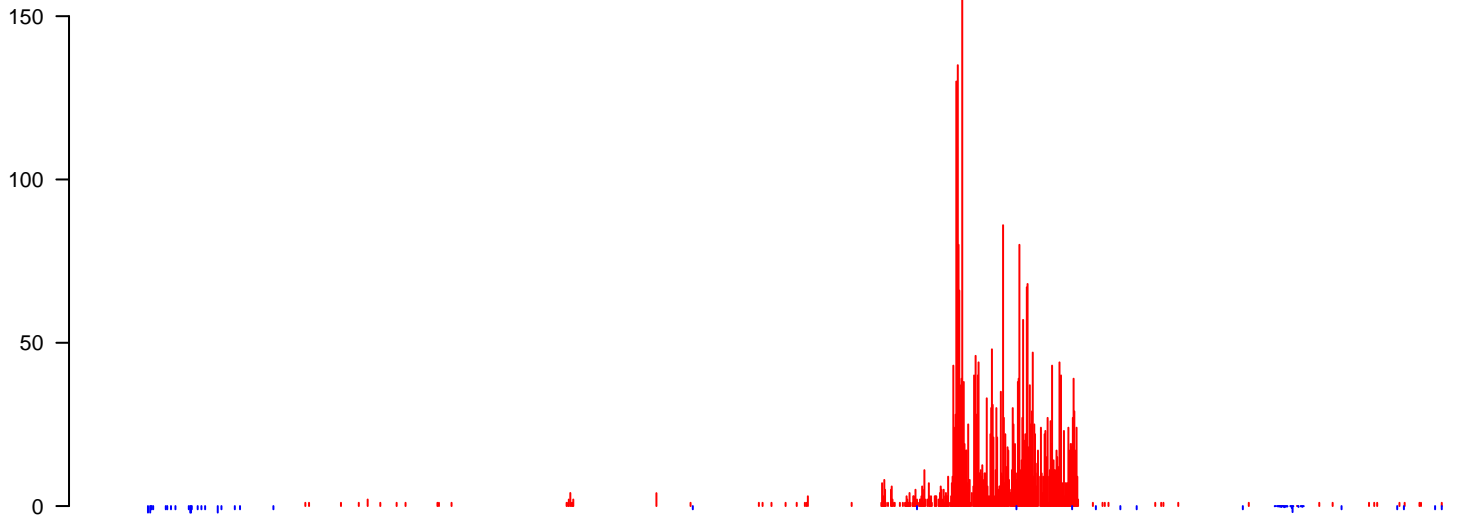


OSS unique reads

Vha16 chr 2R : 2512744 – 2520633 –



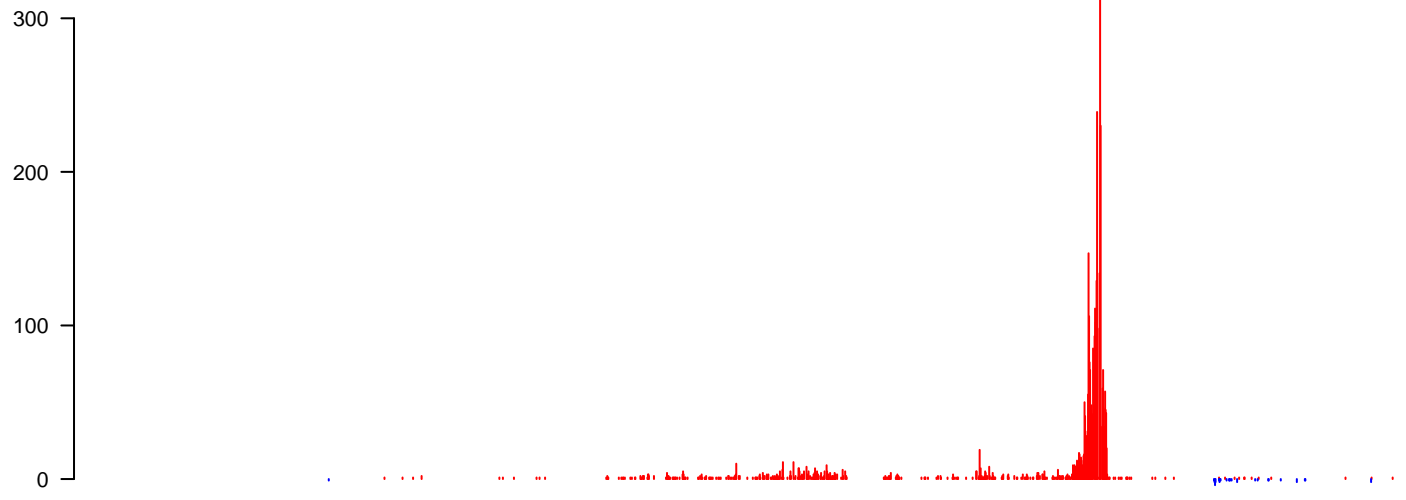
OSS norm. reads



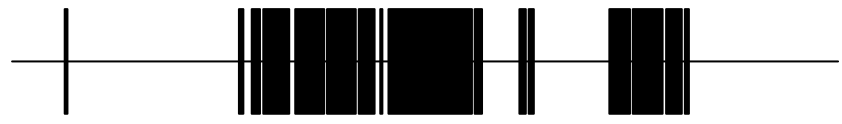
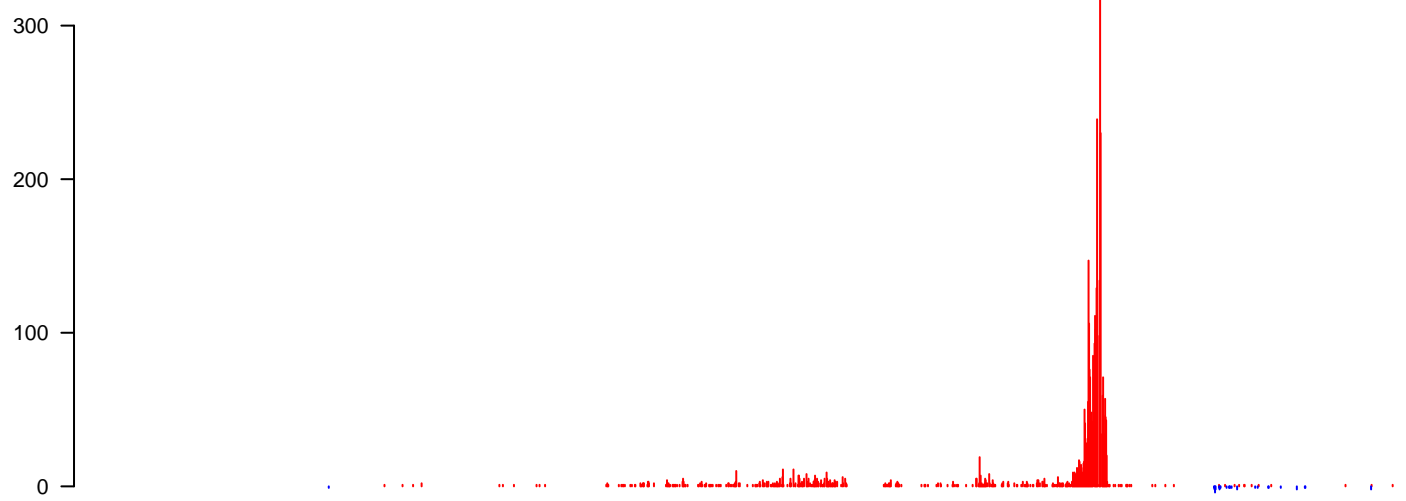
Vha16 2R – 2512744 2520633

OSS unique reads

Khc-73 chr 2R : 11403283 – 11419743



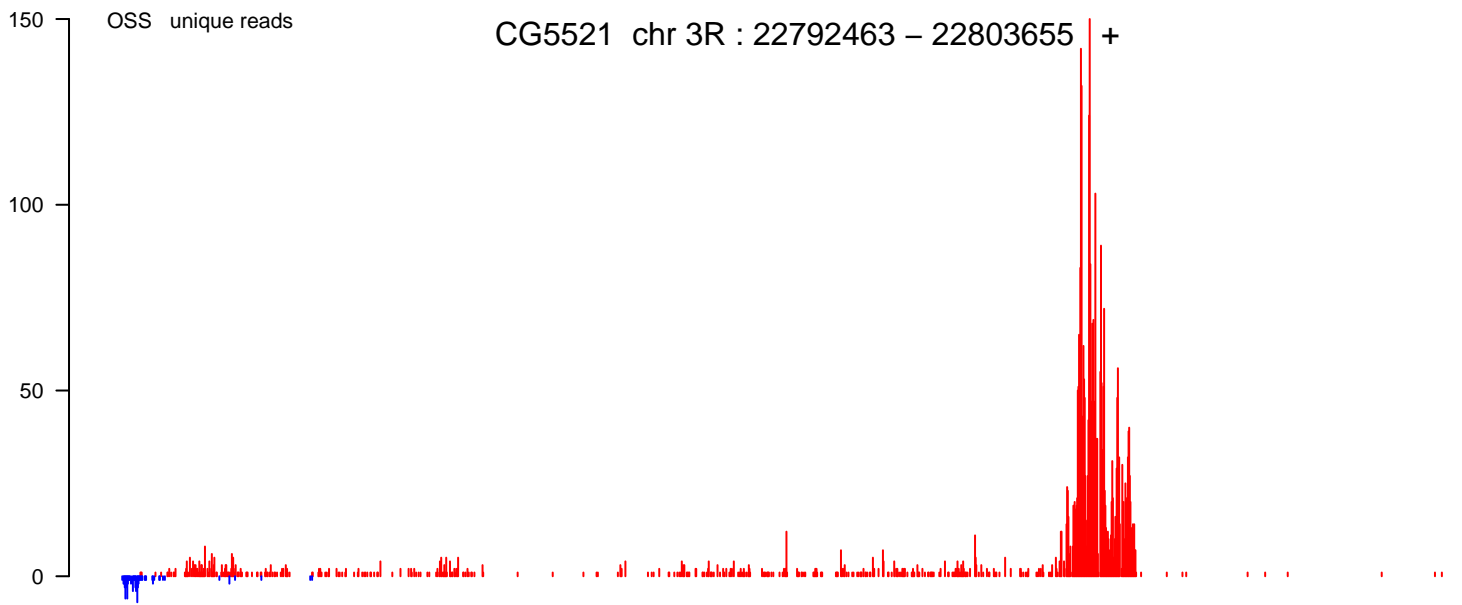
OSS norm. reads



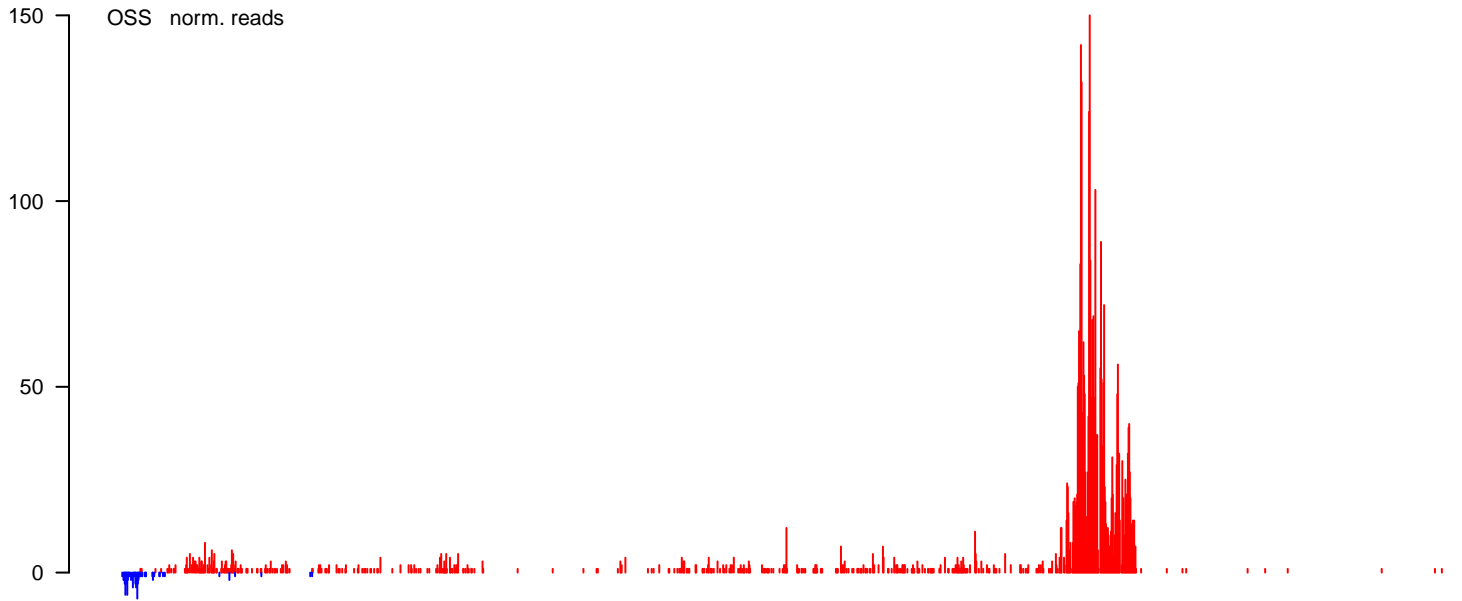
Khc-73 2R – 11403283 11419743

OSS unique reads

CG5521 chr 3R : 22792463 – 22803655 +



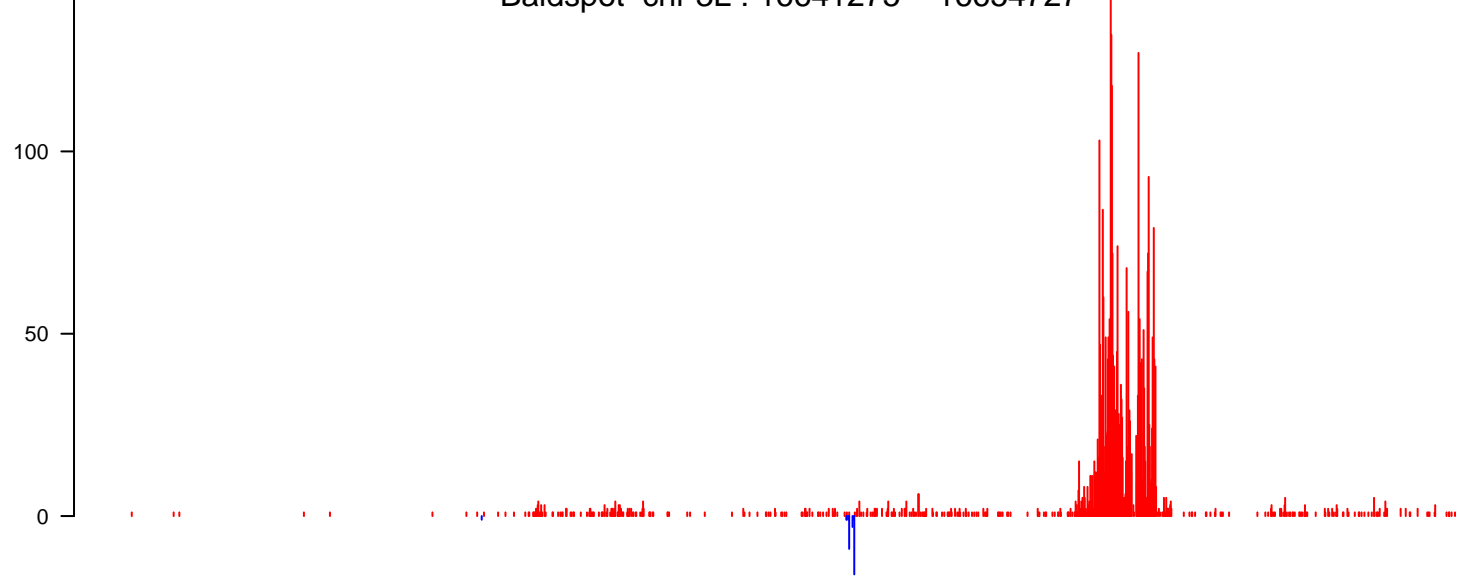
OSS norm. reads



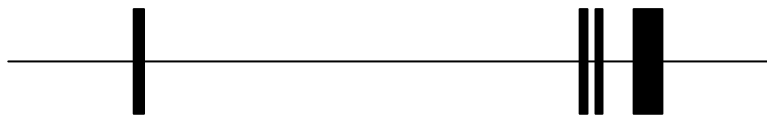
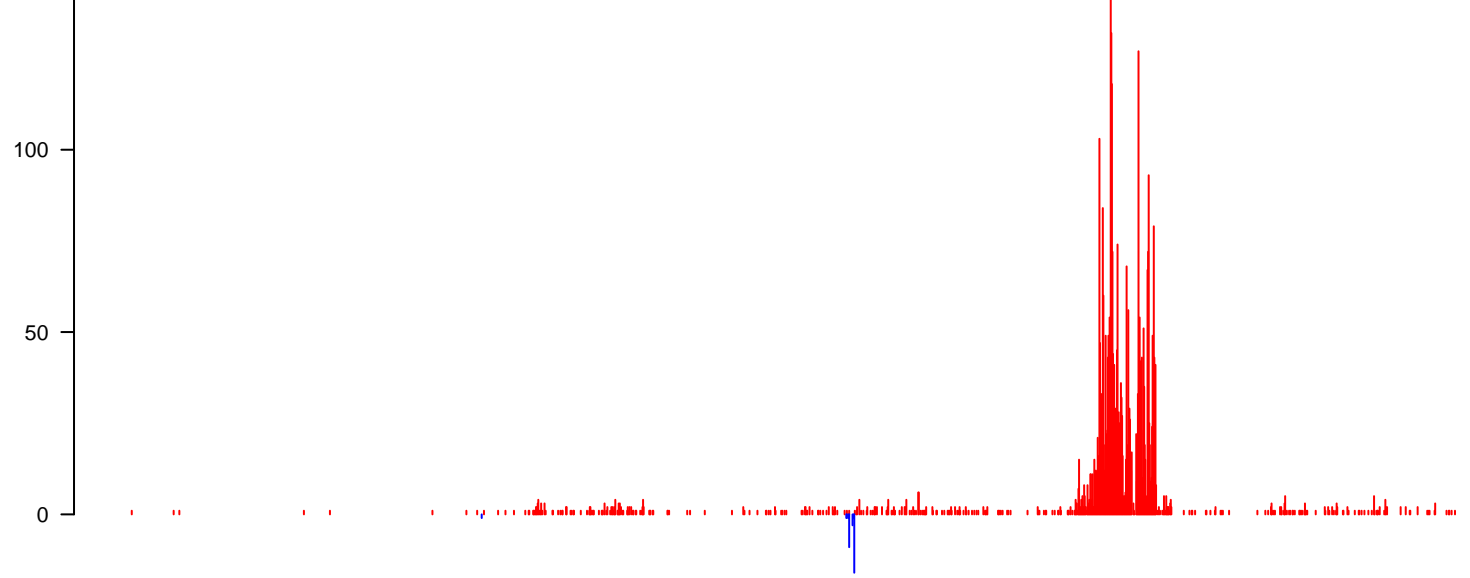
CG5521 3R + 22792463 22803655

Baldspot chr 3L : 16641275 – 16654727

OSS unique reads

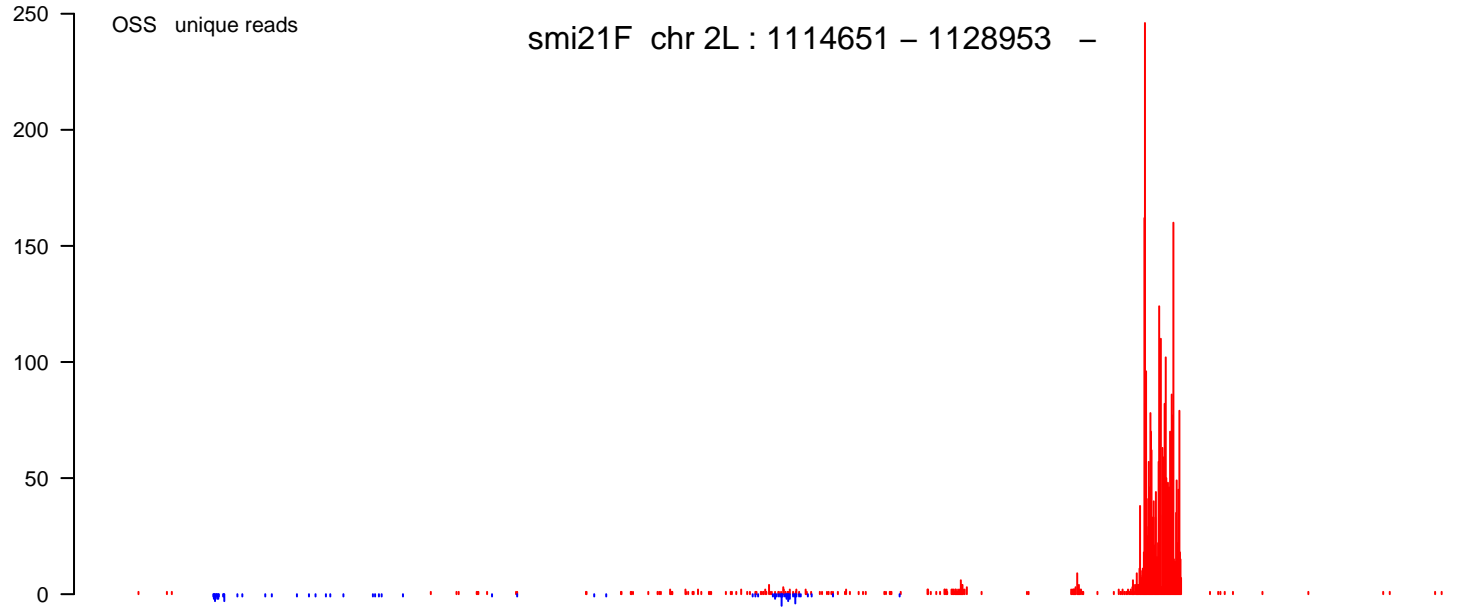


OSS norm. reads

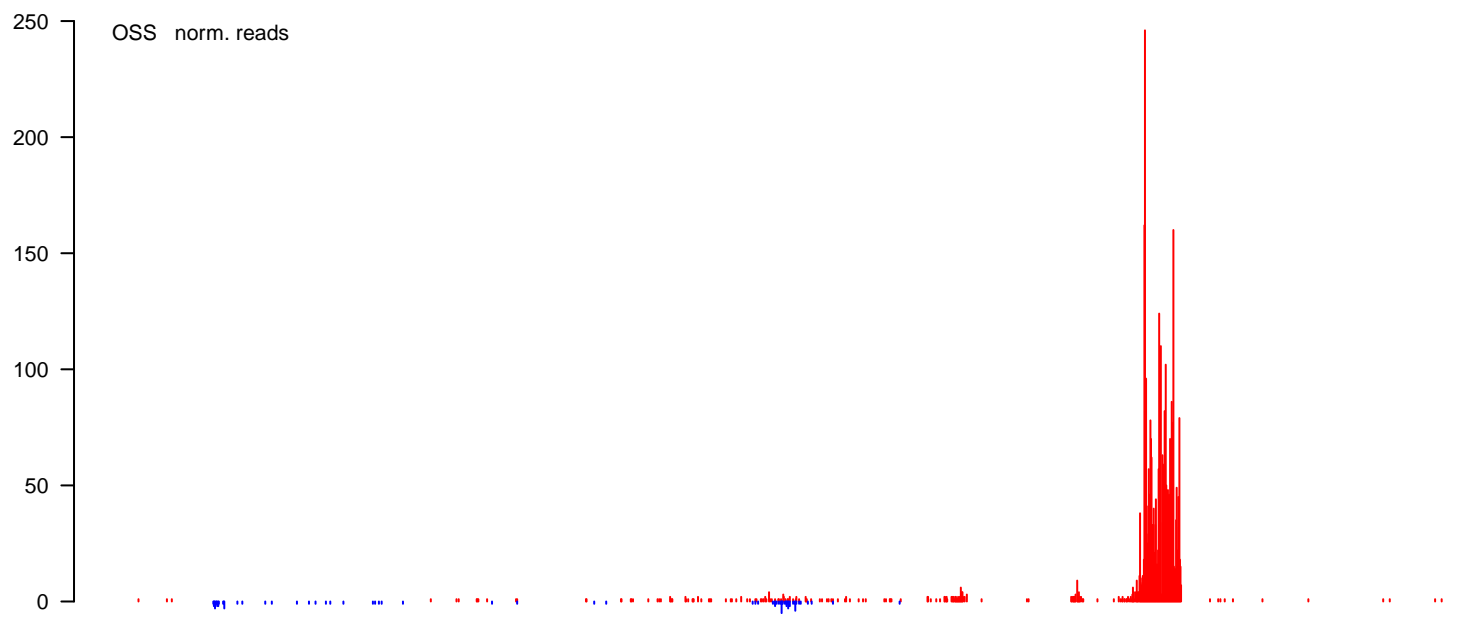


OSS unique reads

smi21F chr 2L : 1114651 – 1128953 –



OSS norm. reads



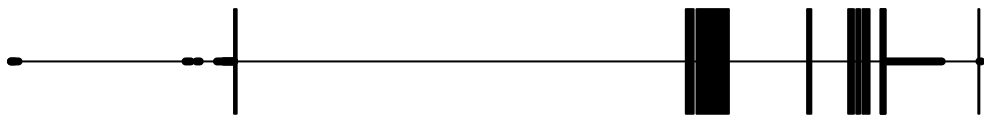
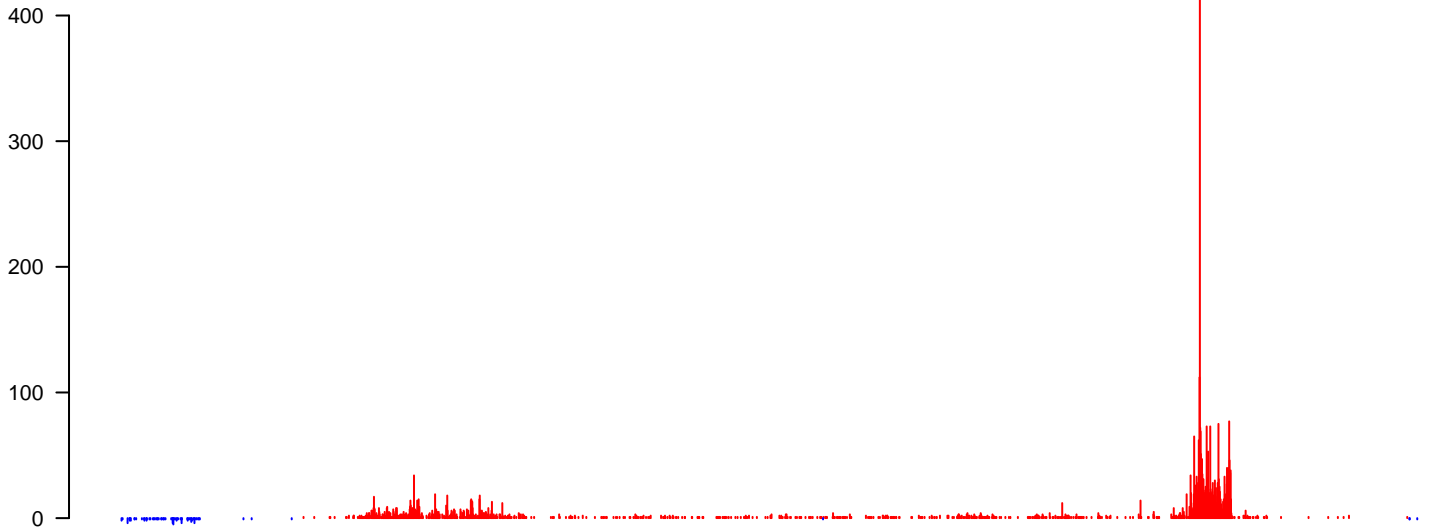


OSS unique reads

Bsg chr 2L : 8083422 – 8110561 +

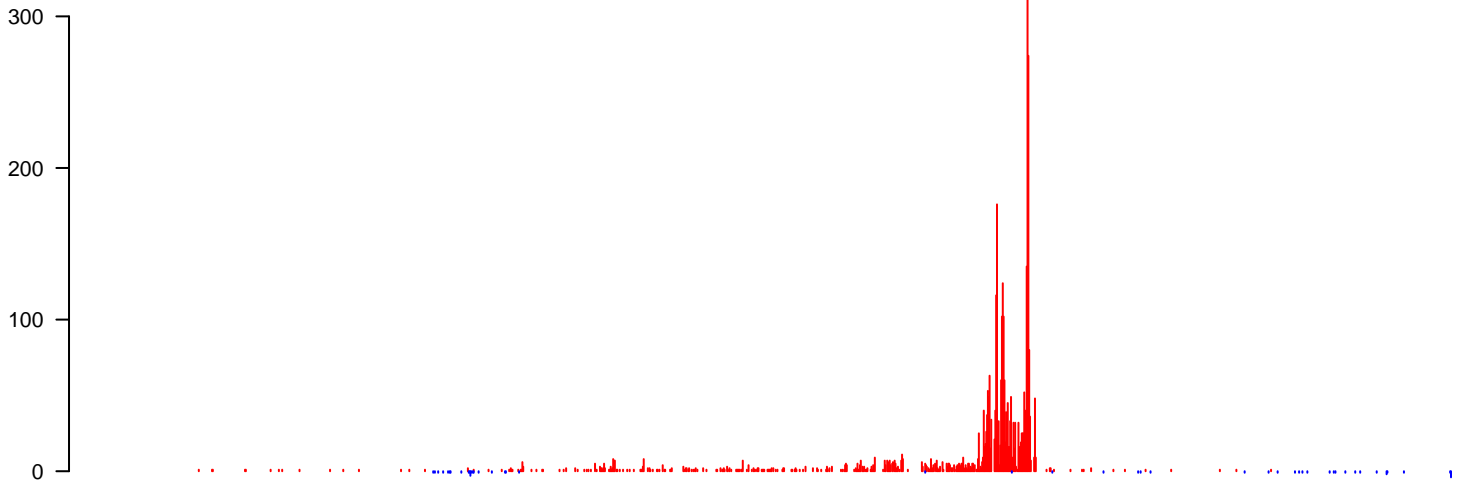


OSS norm. reads

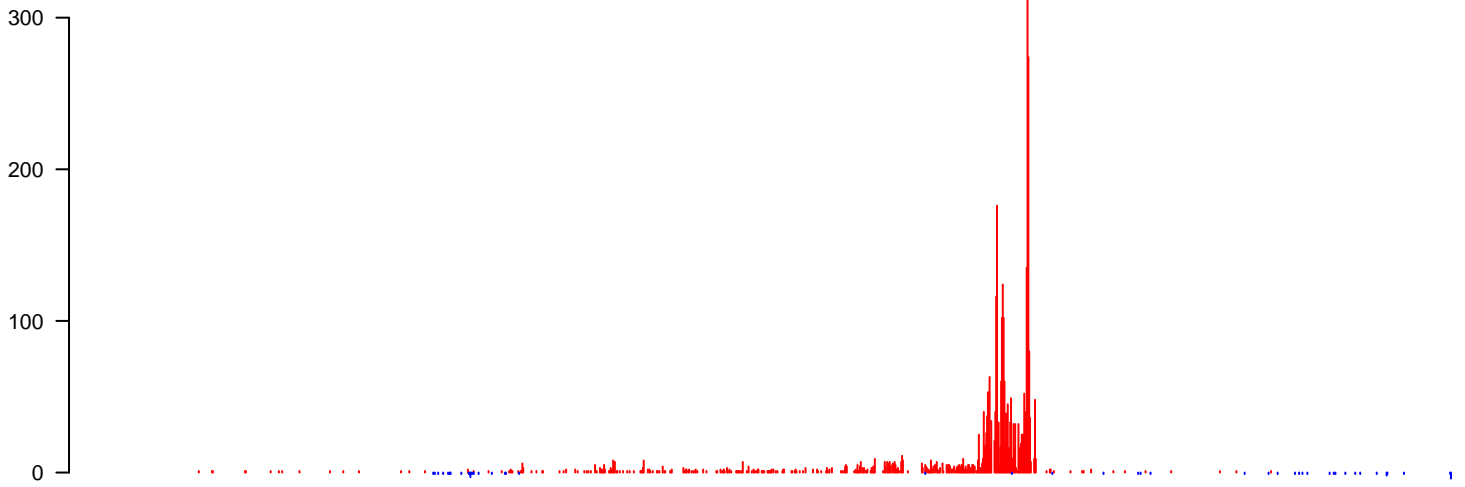


OSS unique reads

CG6701 chr 2R : 9860477 – 9866564 –



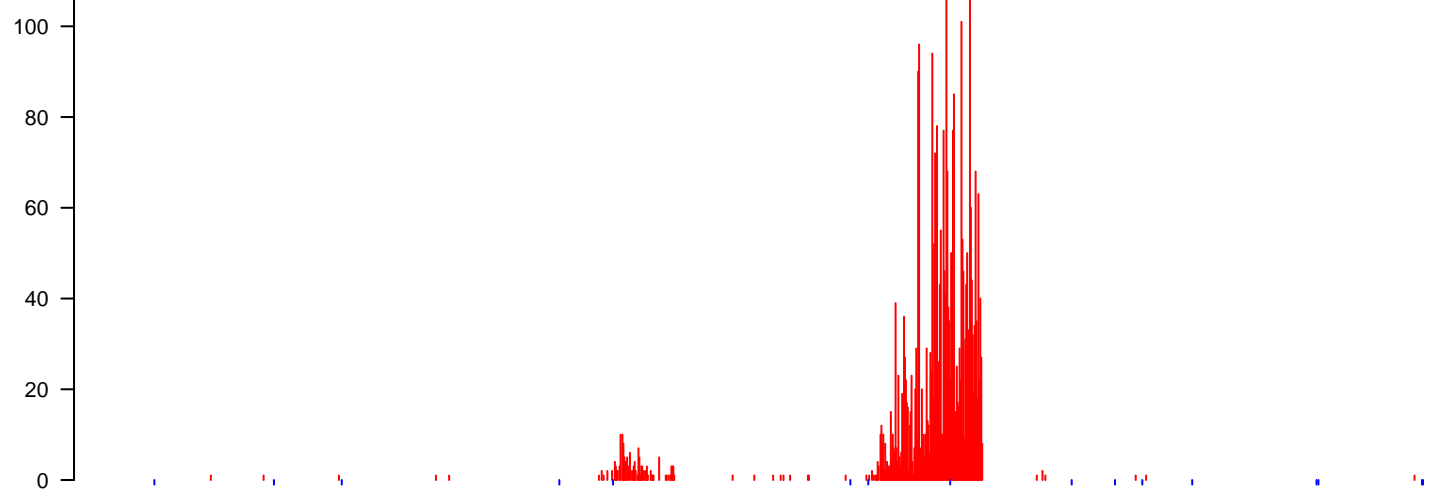
OSS norm. reads



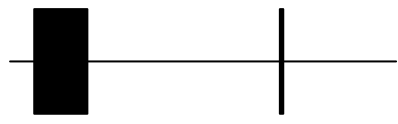
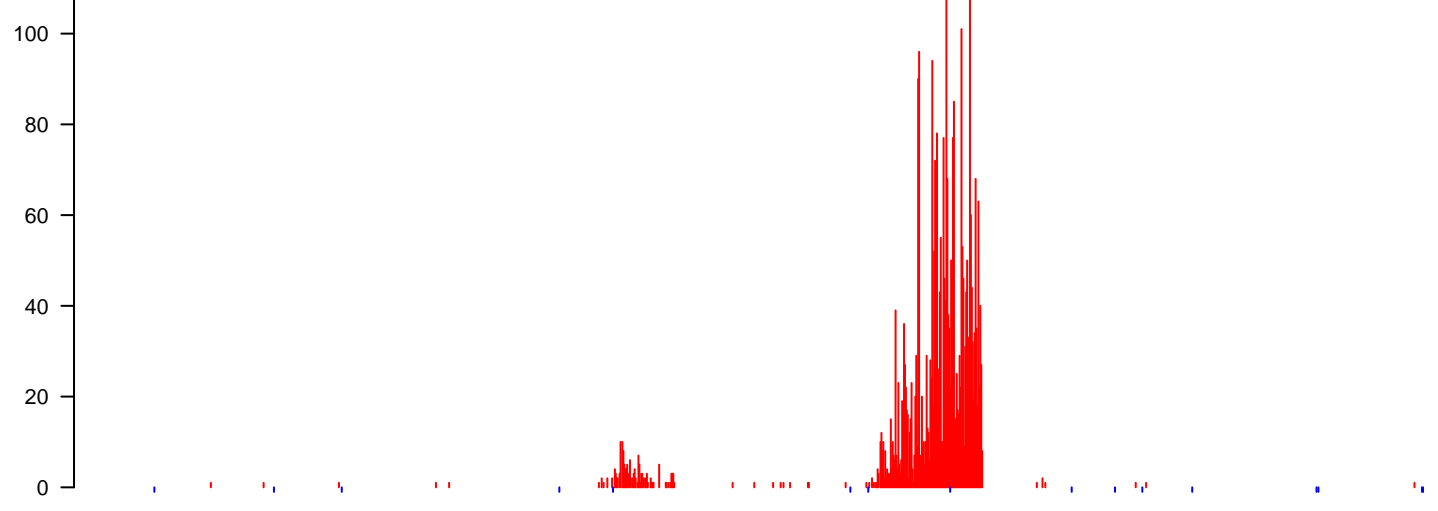
CG6701 2R – 9860477 9866564

OSS unique reads

emc chr 3L : 749406 – 753505 +



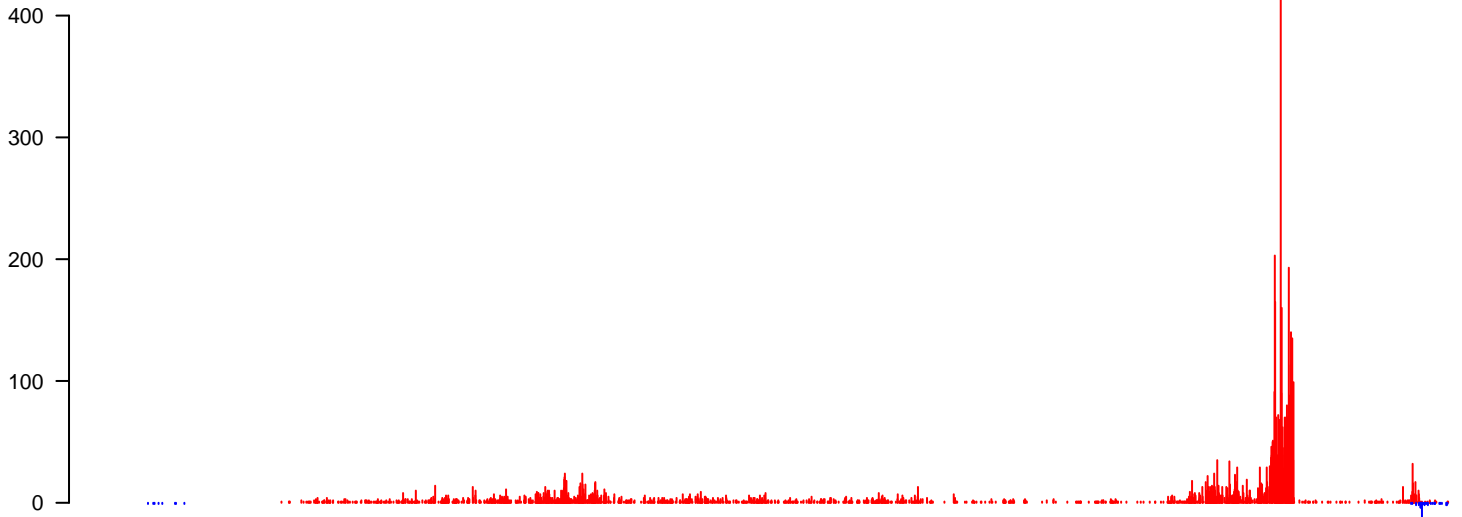
OSS norm. reads



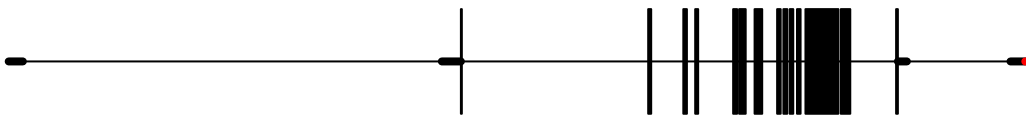
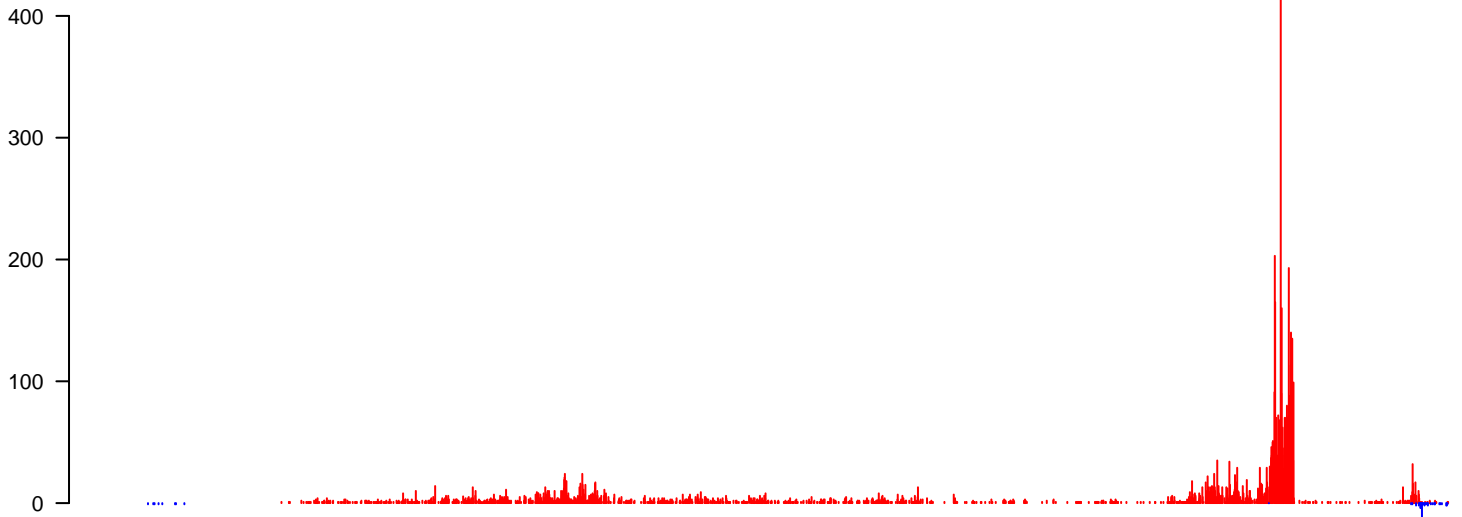
emc 3L + 749406 753505

OSS unique reads

CG11319 chr 2L : 6568384 – 6601066 –



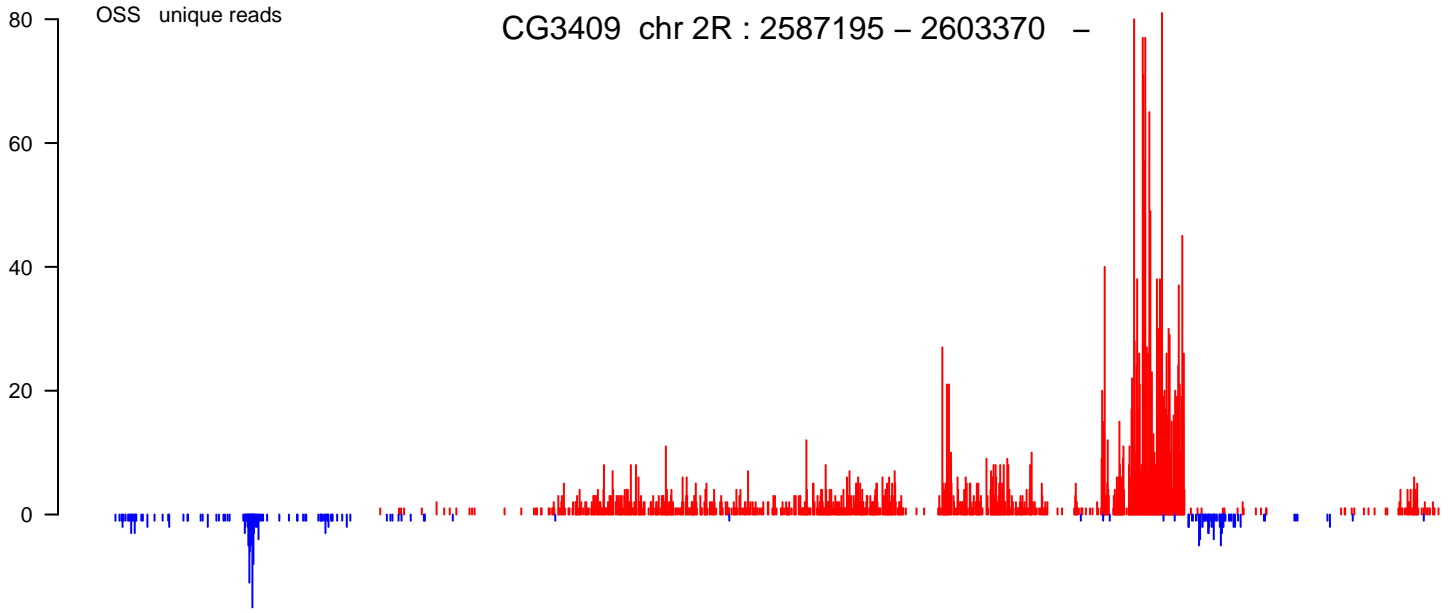
OSS norm. reads



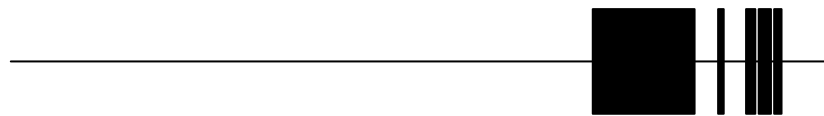
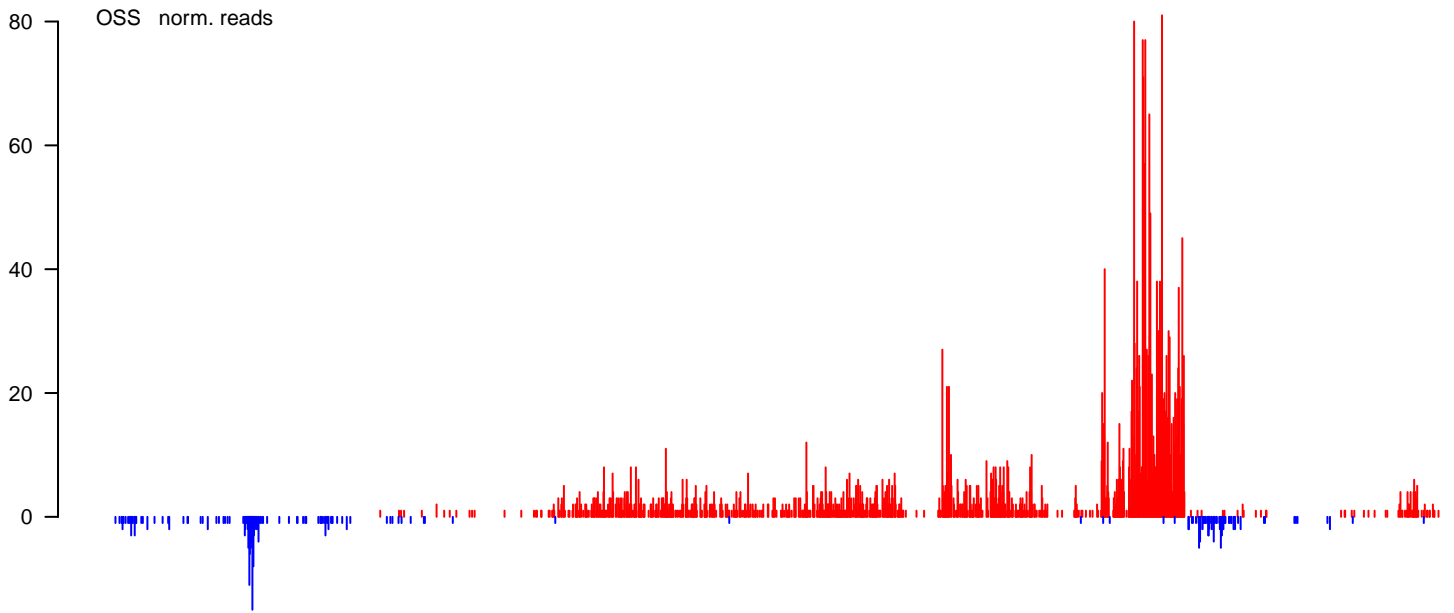
CG11319 2L – 6568384 6601066

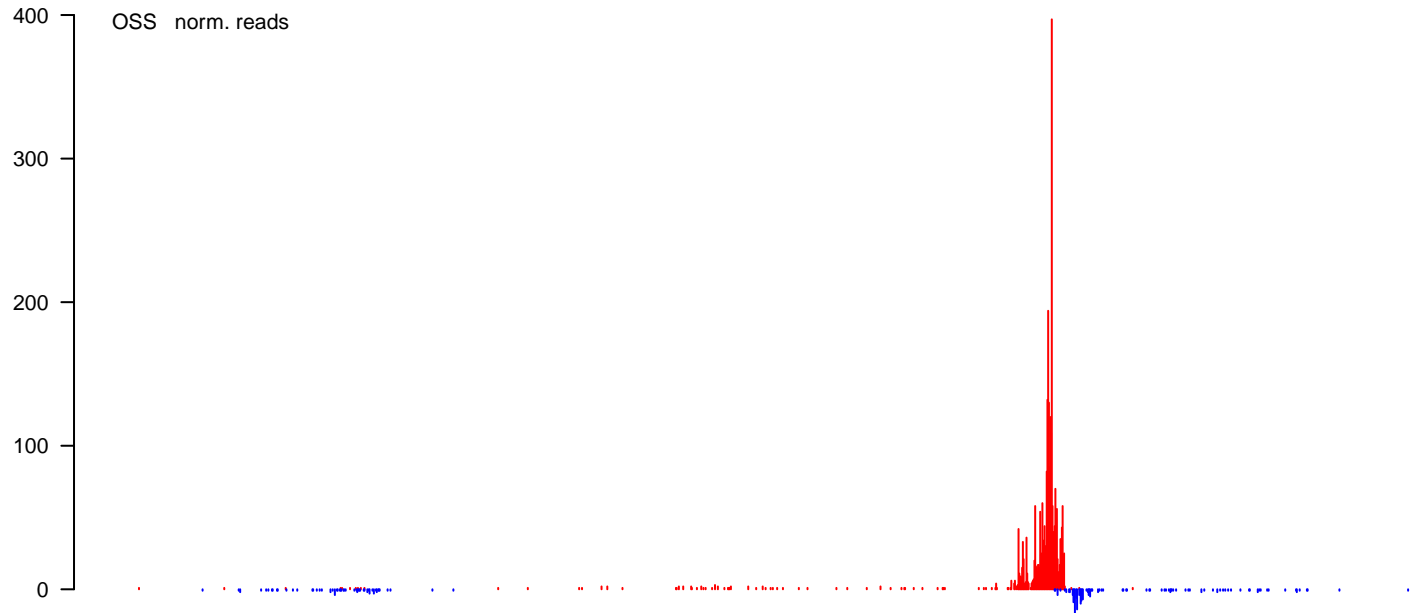
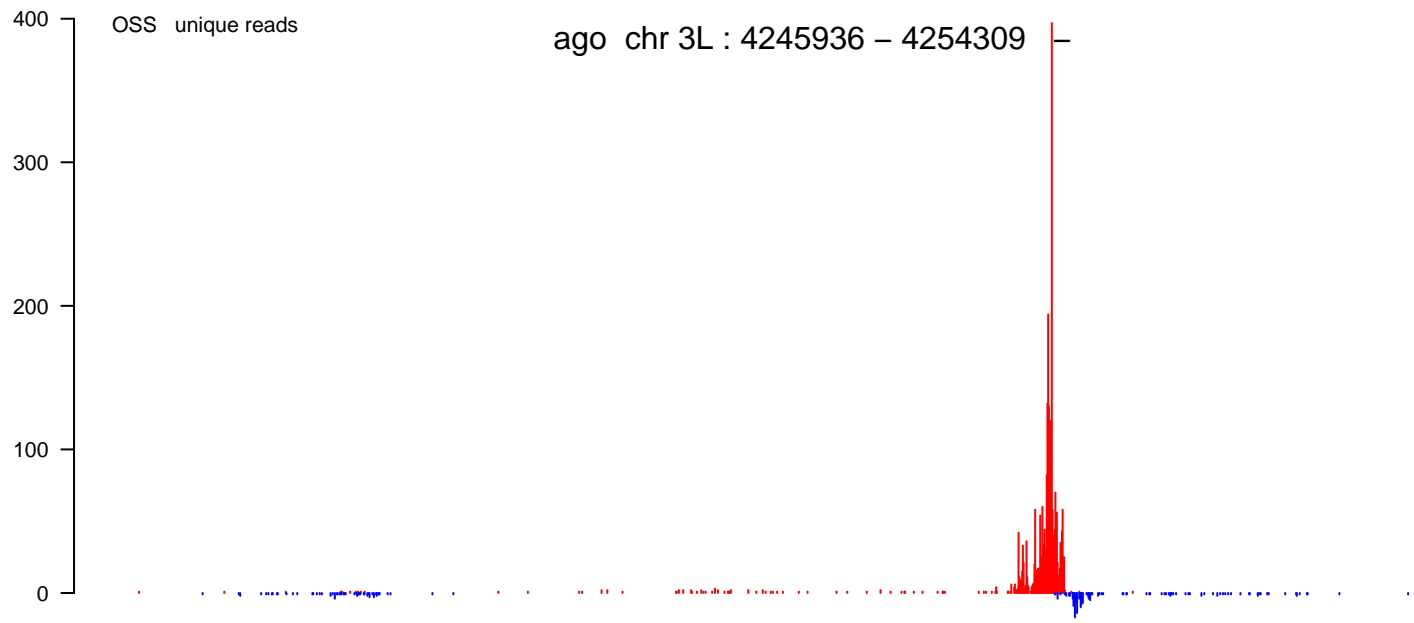
OSS unique reads

CG3409 chr 2R : 2587195 – 2603370 –

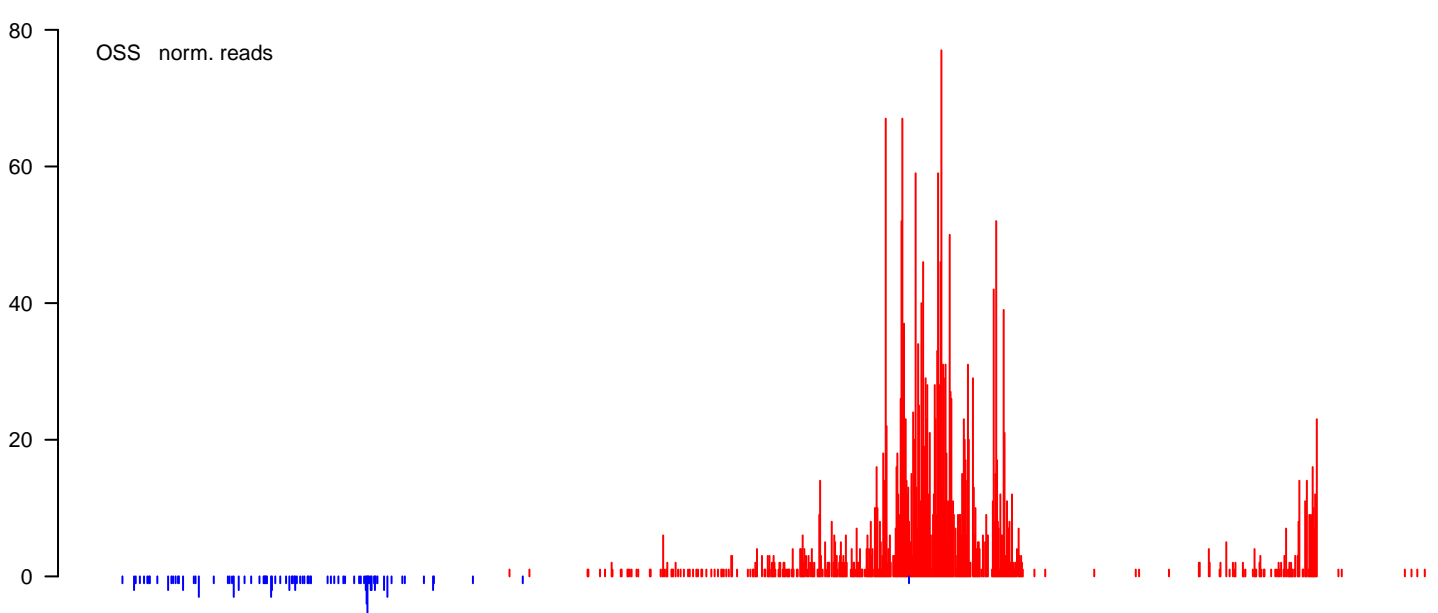
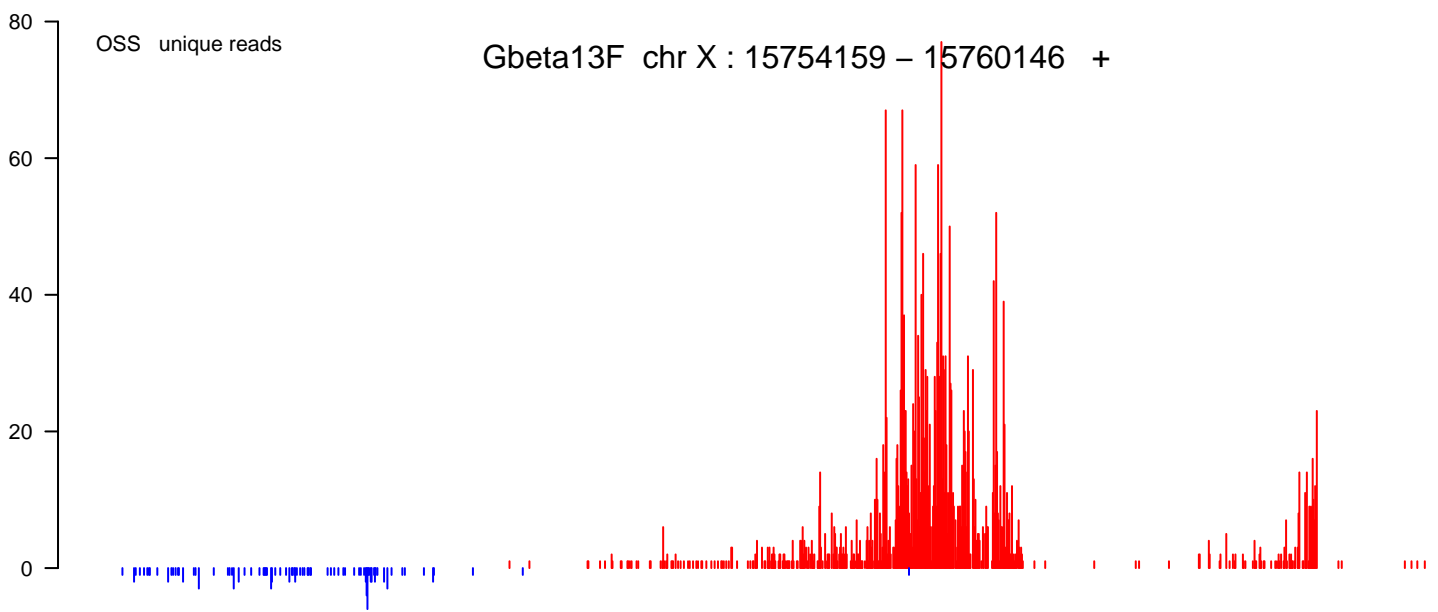


OSS norm. reads





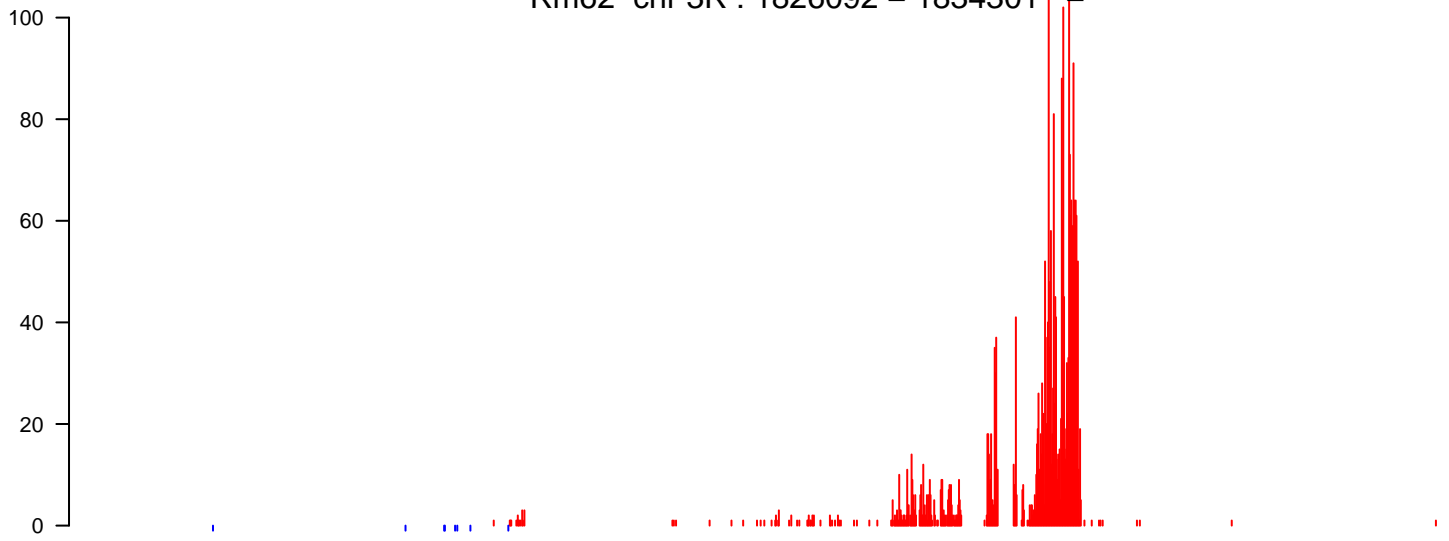
ago 3L – 4245936 4254309



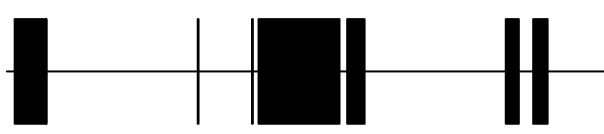
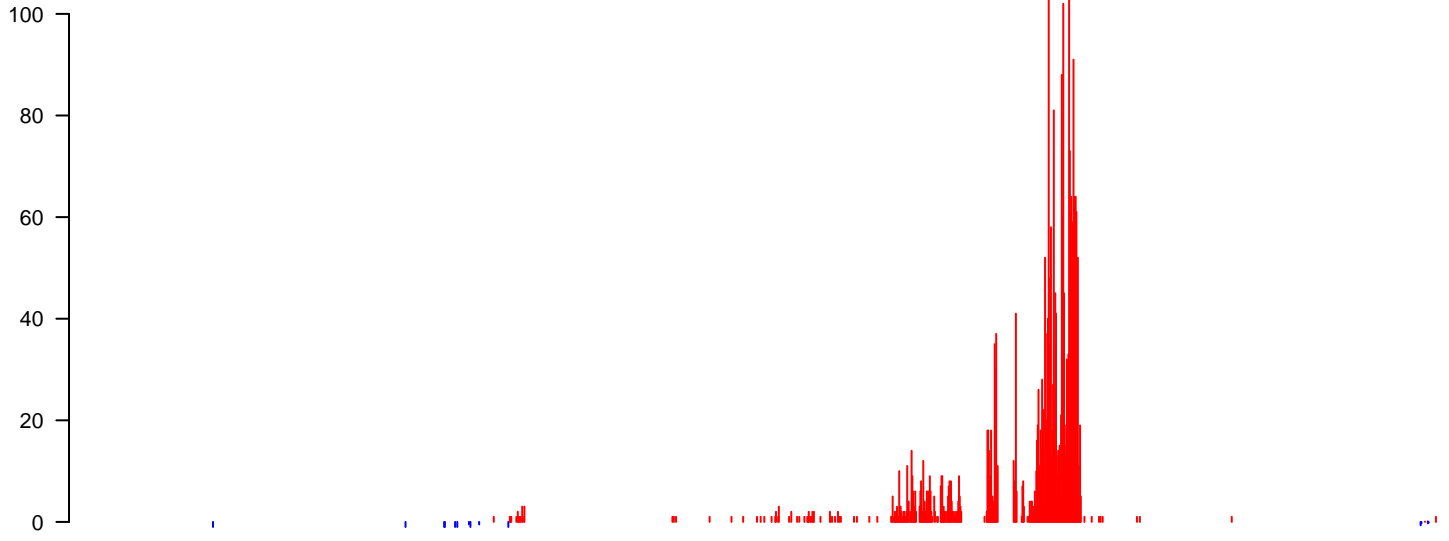
Gbeta13F X + 15754159 15760146

Rm62 chr 3R : 1826092 – 1834301

OSS unique reads



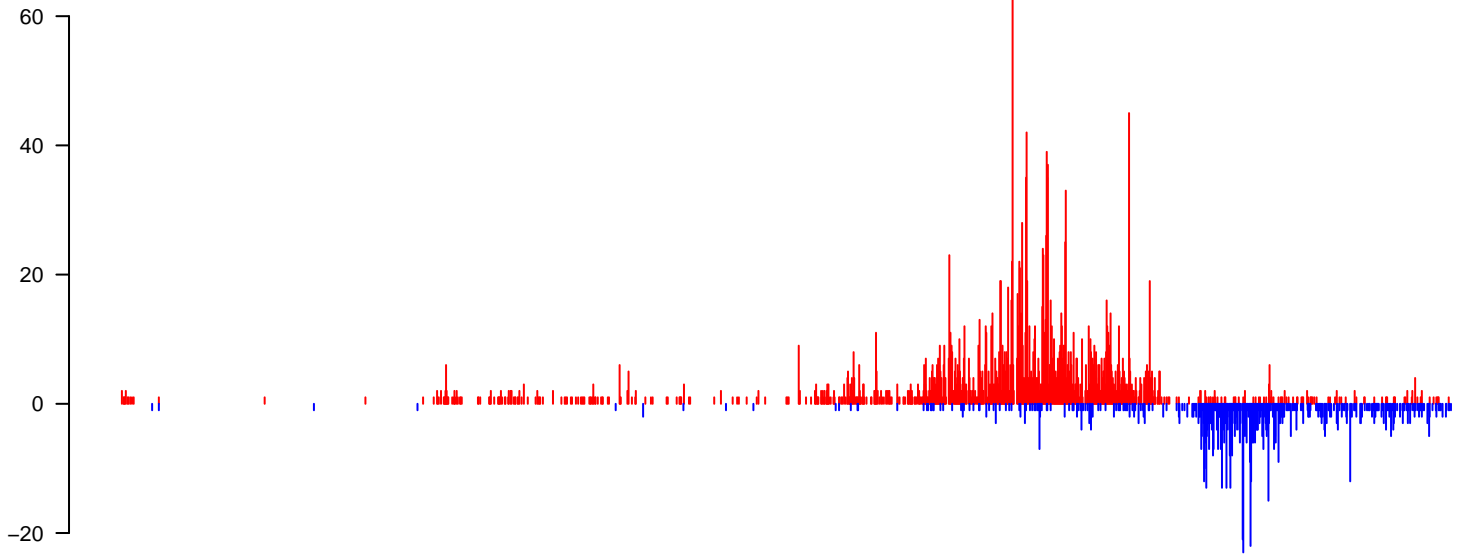
OSS norm. reads



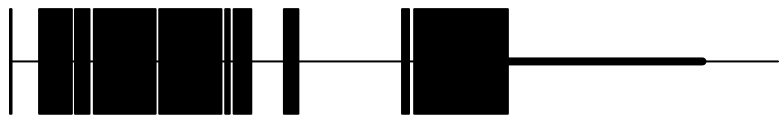
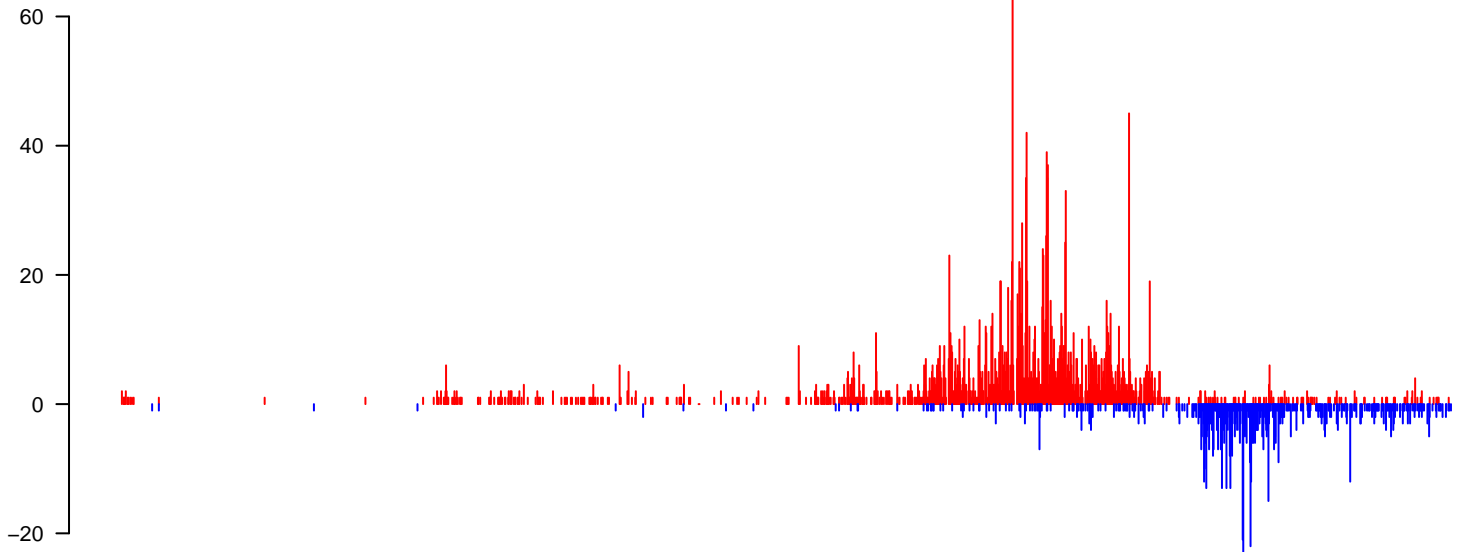


OSS unique reads

RhoGAP100F chr 3R : 27658599 – 27672318 +



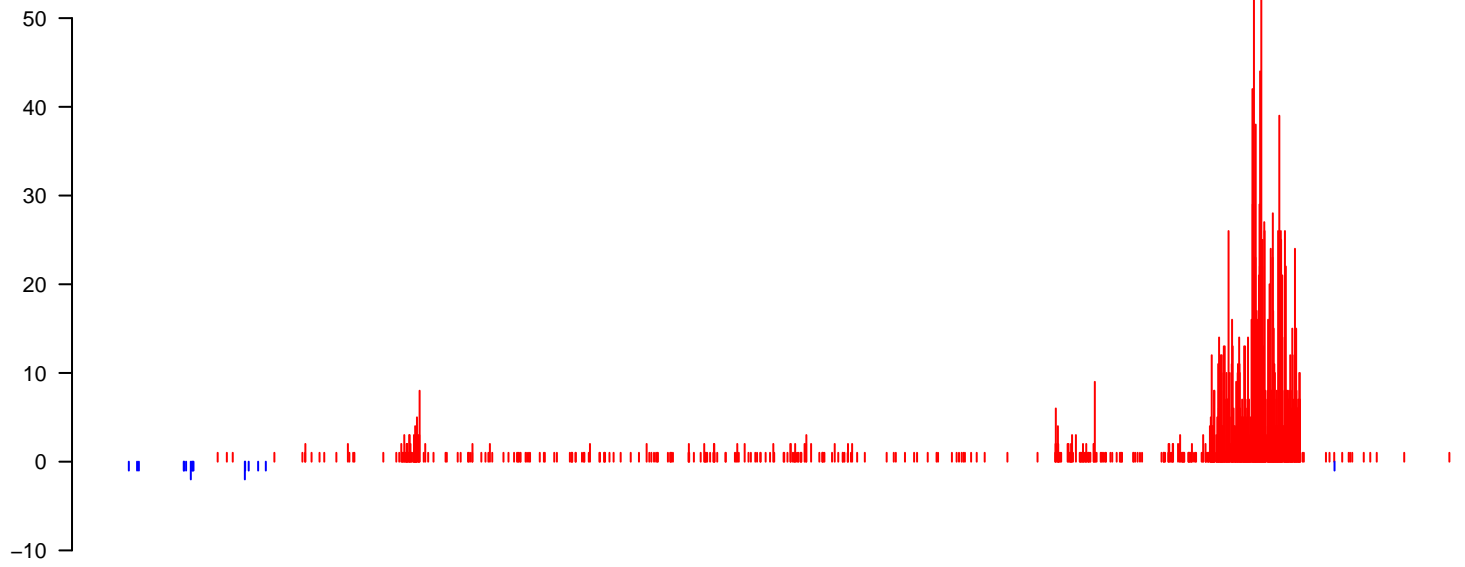
OSS norm. reads



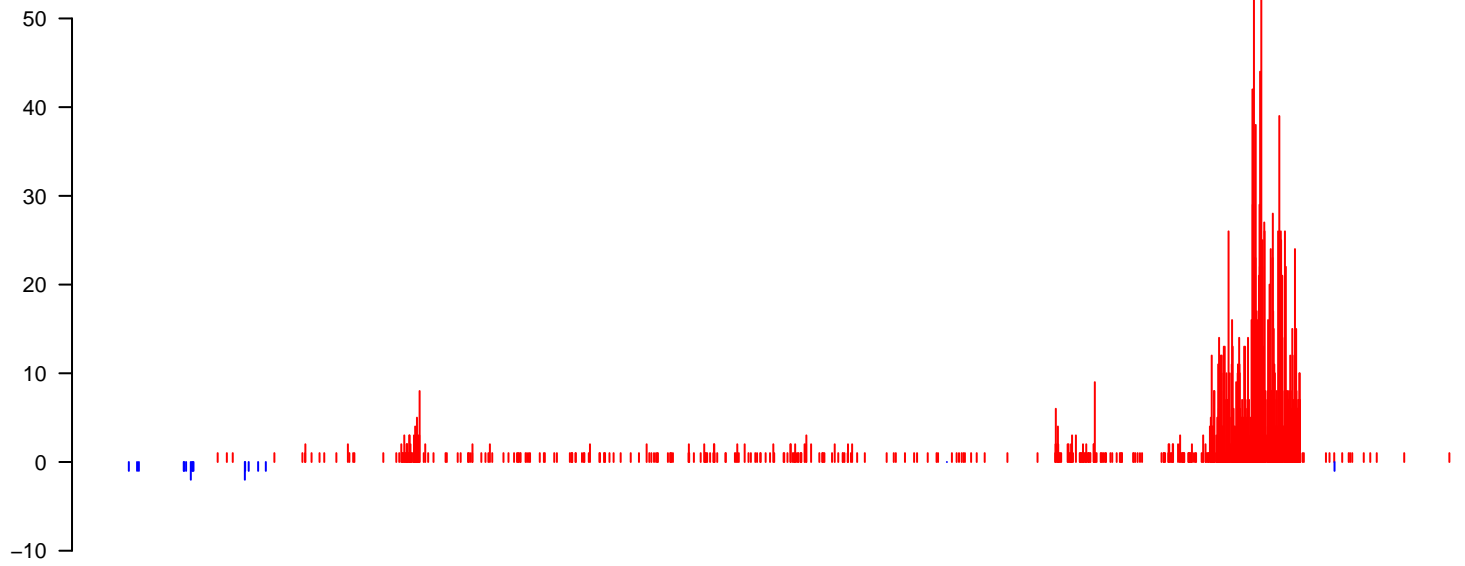
RhoGAP100F 3R + 27658599 27672318

OSS unique reads

CG17090 chr 3L : 543070 – 578048 +



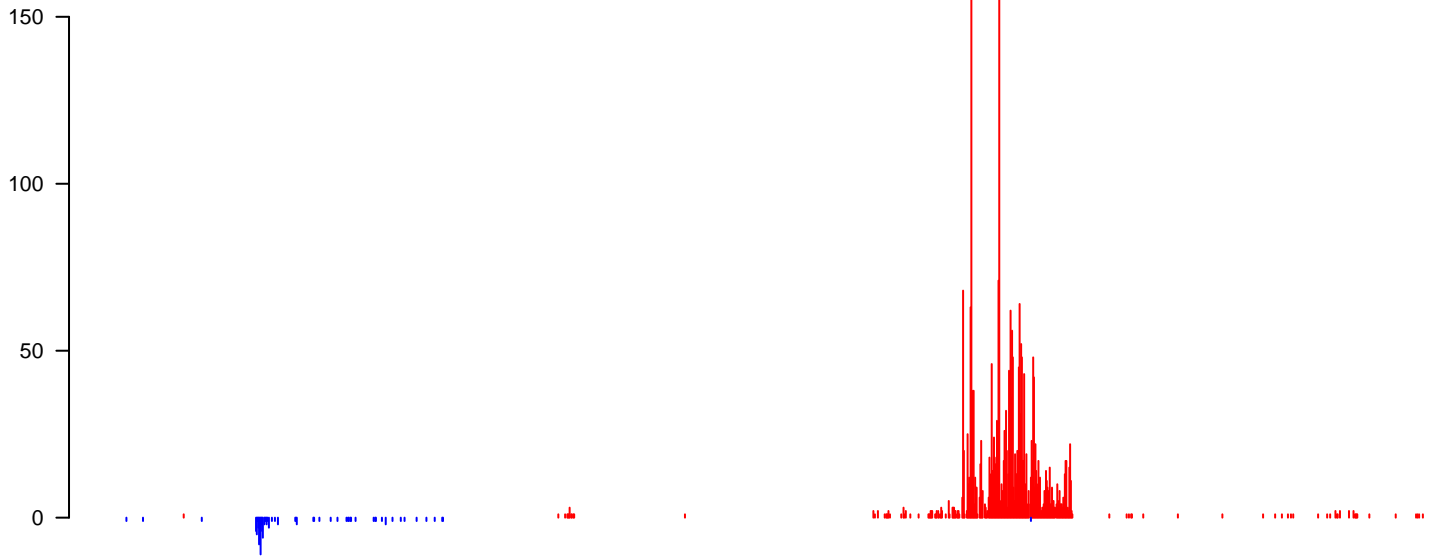
OSS norm. reads



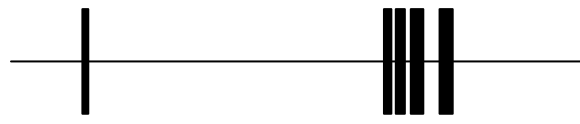
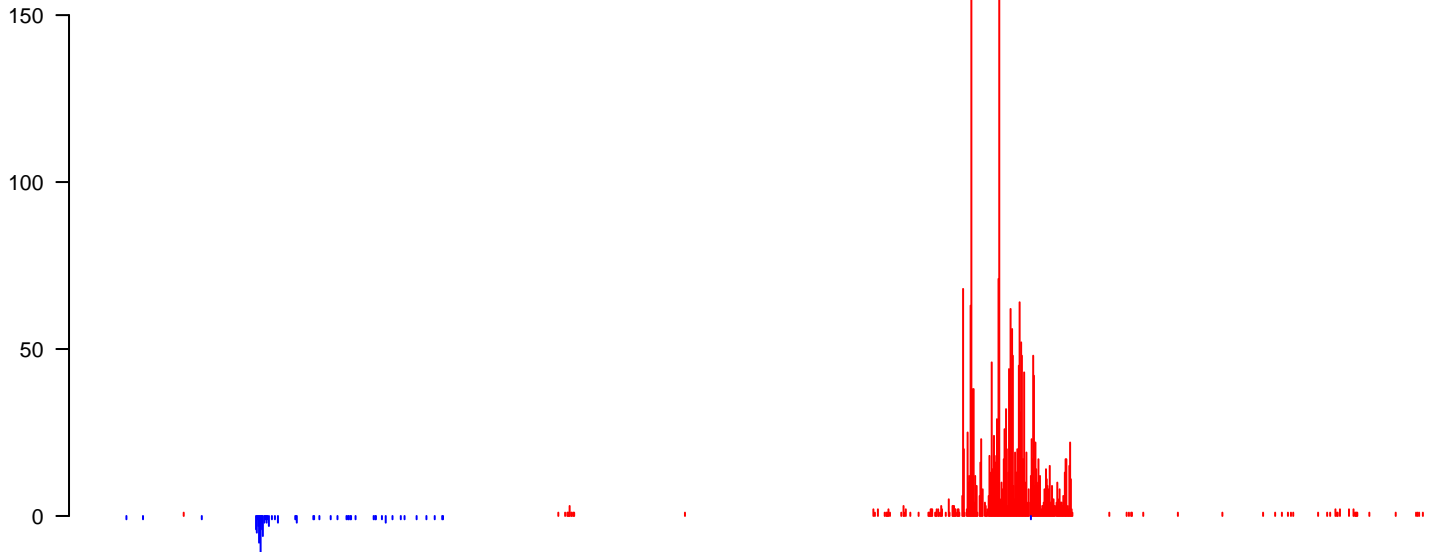
CG17090 3L + 543070 578048

OSS unique reads

drk chr 2R : 9382725 – 9390342 –



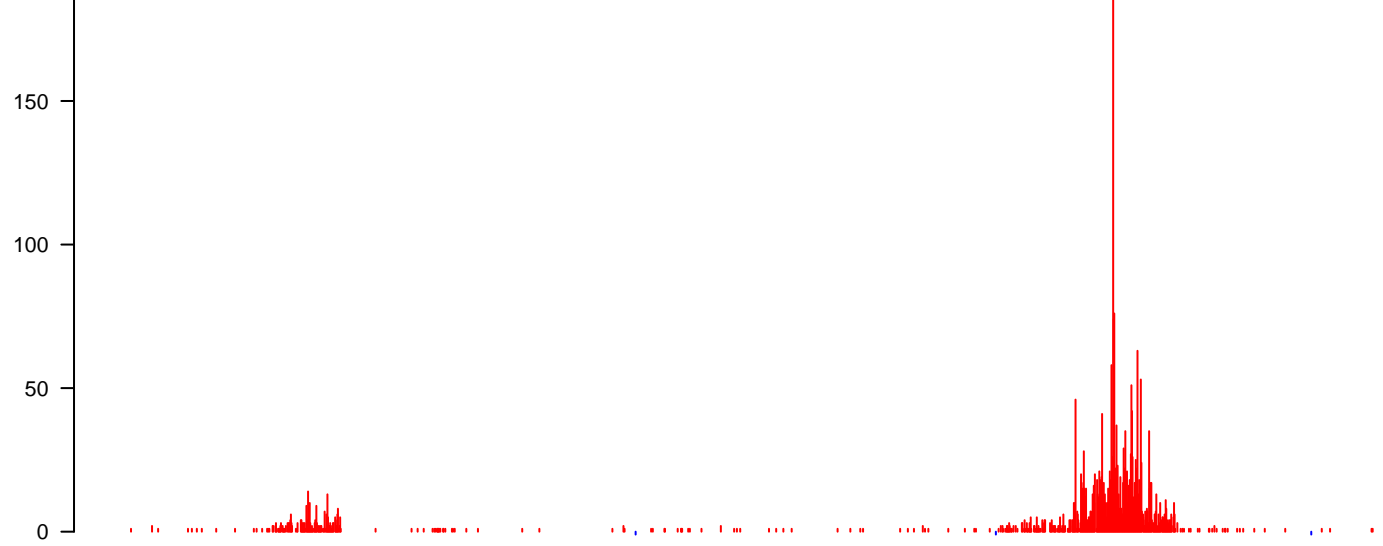
OSS norm. reads



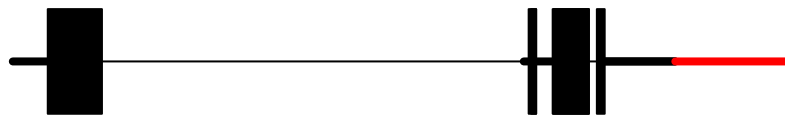
drk 2R – 9382725 9390342

OSS unique reads

CG11138 chr X : 12463217 – 12477215



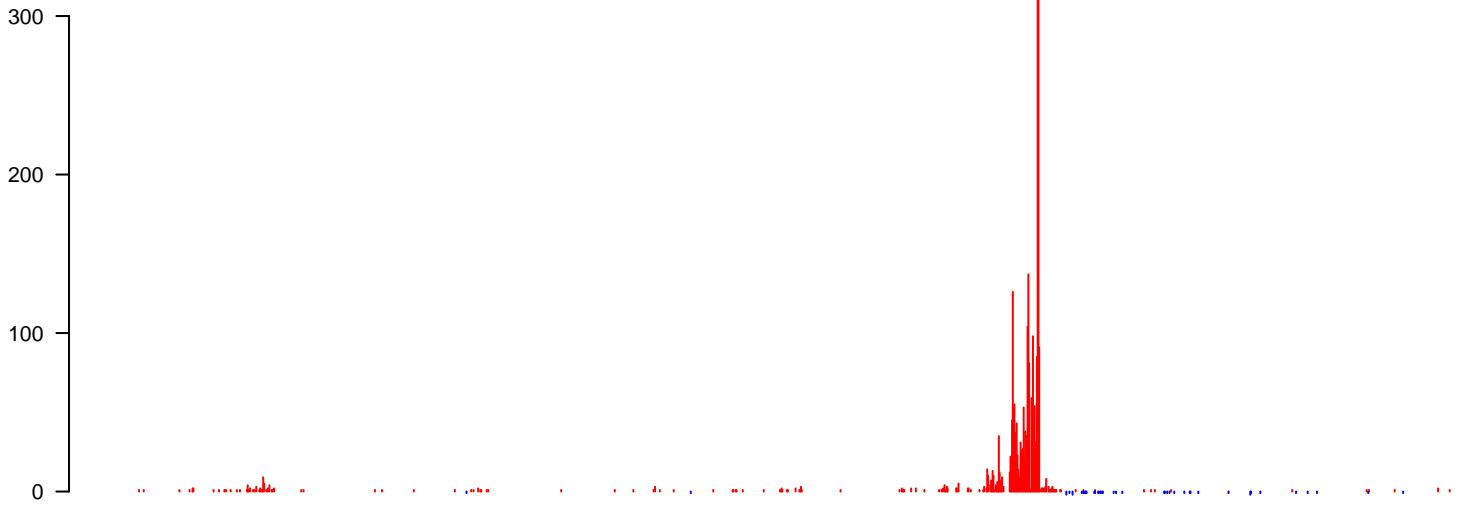
OSS norm. reads



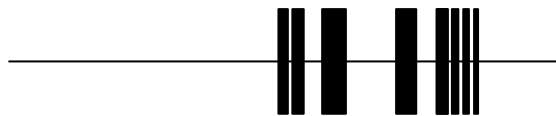
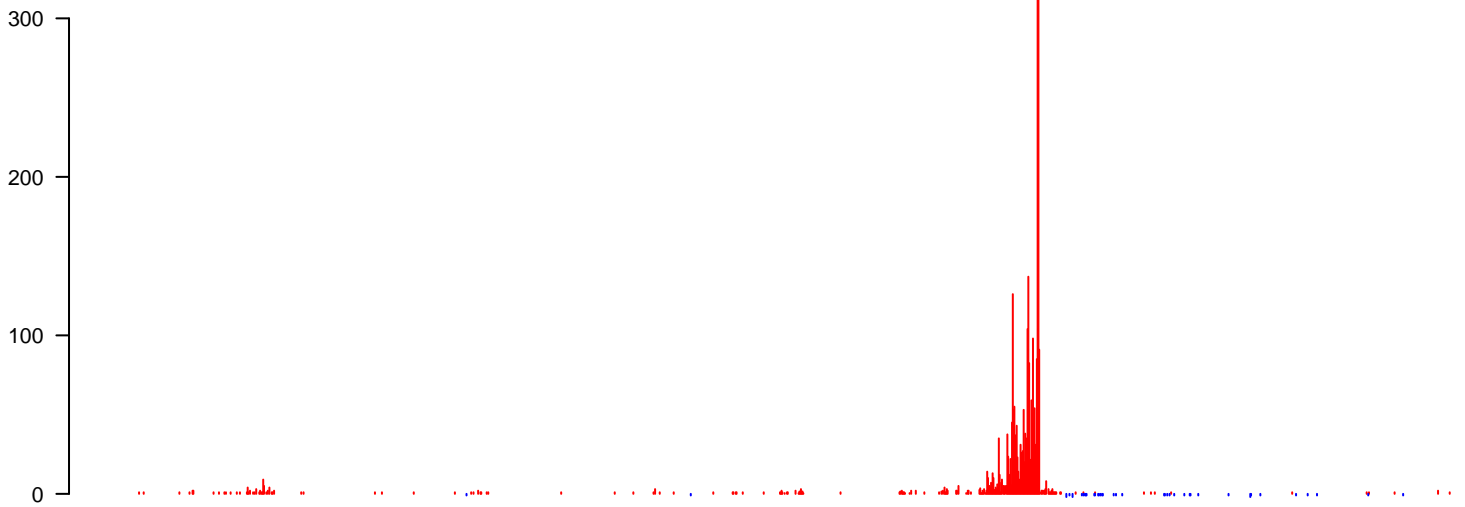
CG11138 X - 12463217 12477215

OSS unique reads

Eb1 chr 2R : 2636697 – 2643809 +



OSS norm. reads



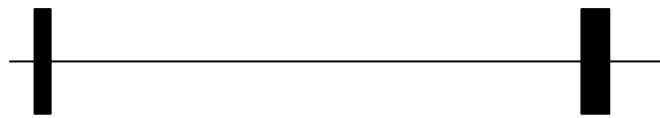
Eb1 2R + 2636697 2643809

OSS unique reads

CG10641 chr 2L : 18977508 – 18987276



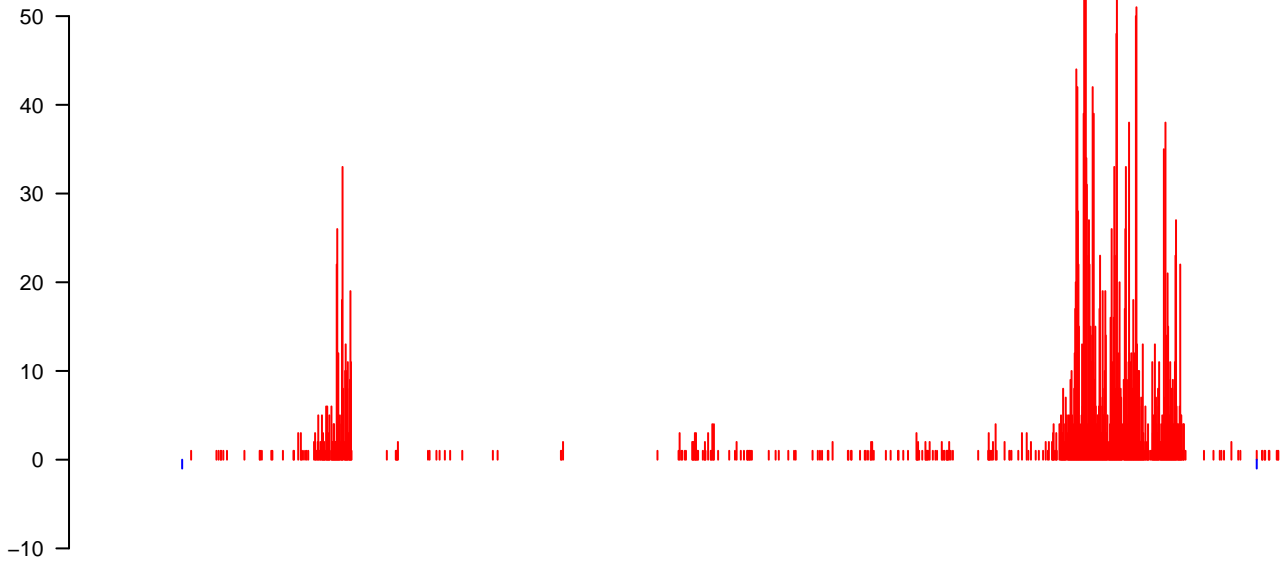
OSS norm. reads



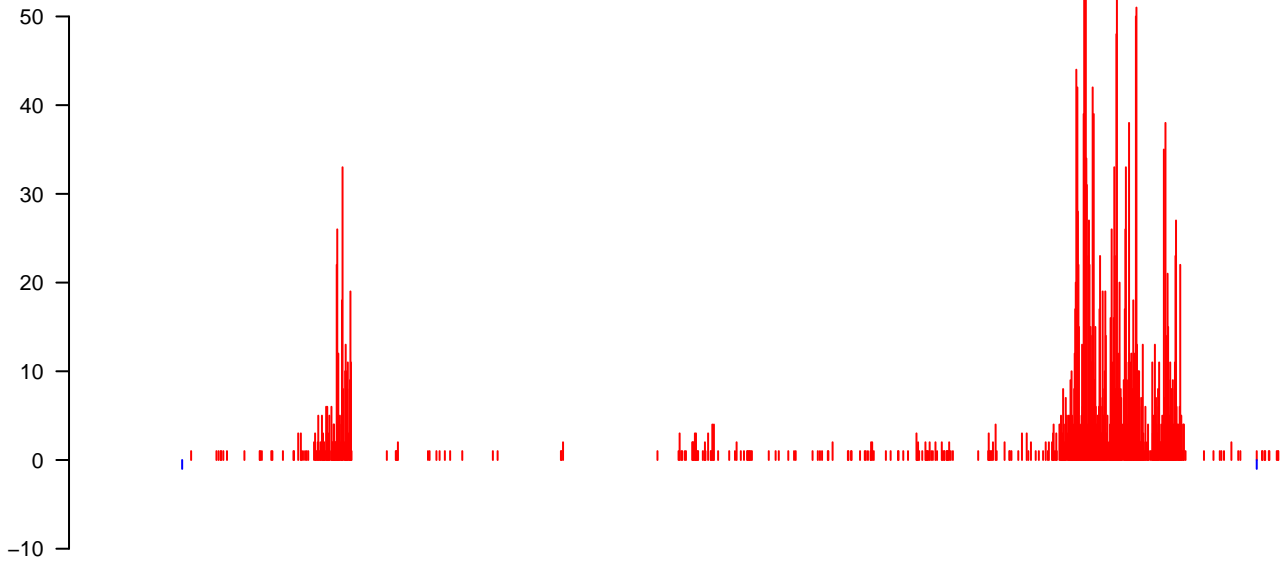
CG10641 2L – 18977508 18987276

OSS unique reads

crol chr 2L : 11794261 – 11809433



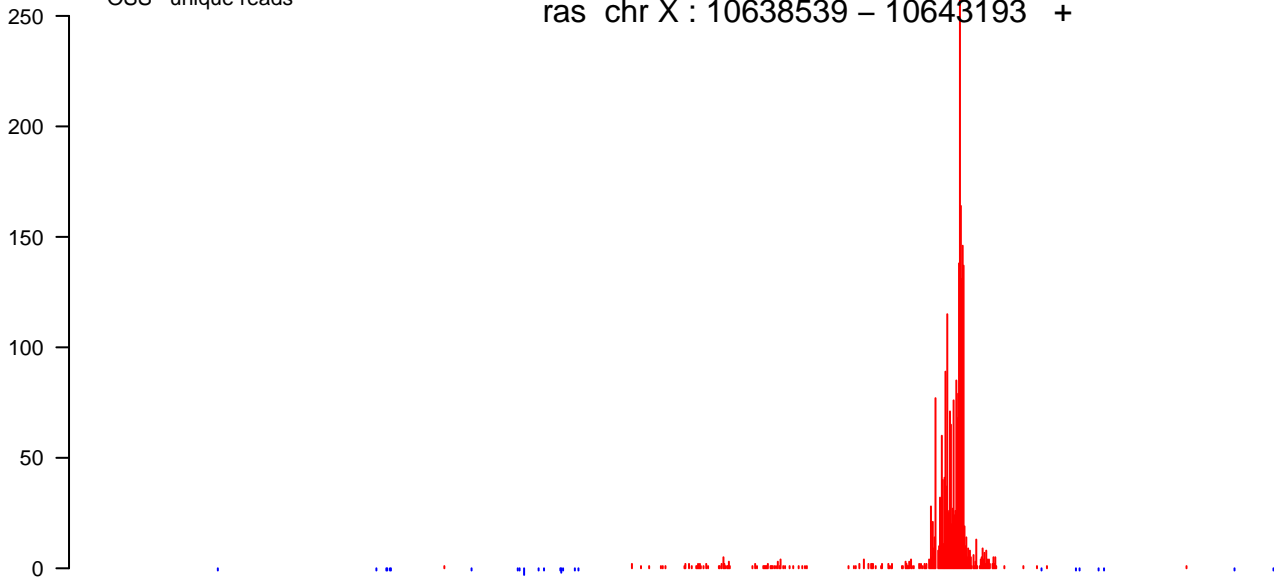
OSS norm. reads



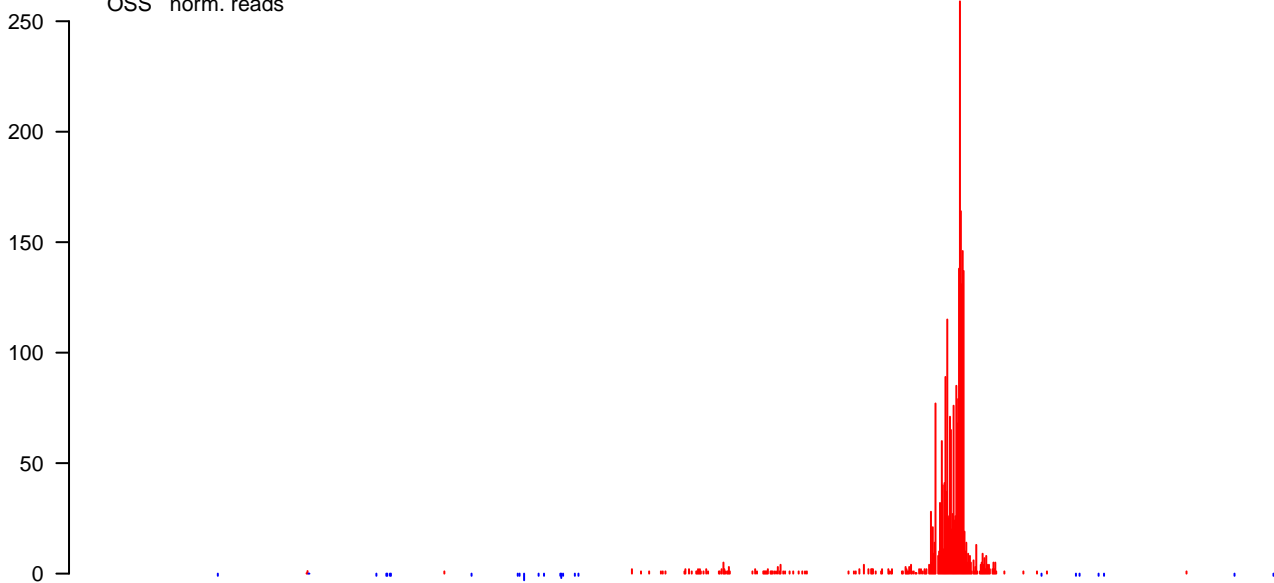
crol 2L – 11794261 11809433

ras chr X : 10638539 – 10643193 +

OSS unique reads



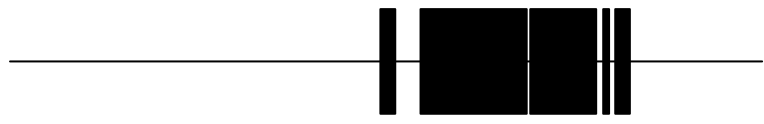
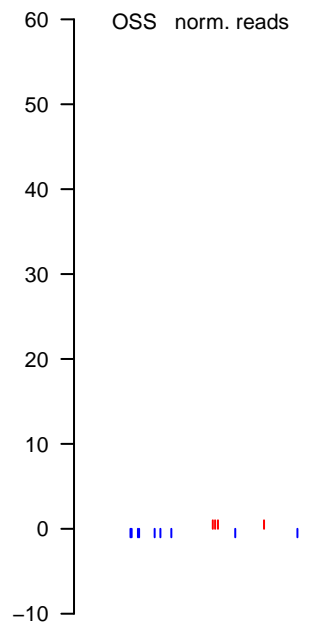
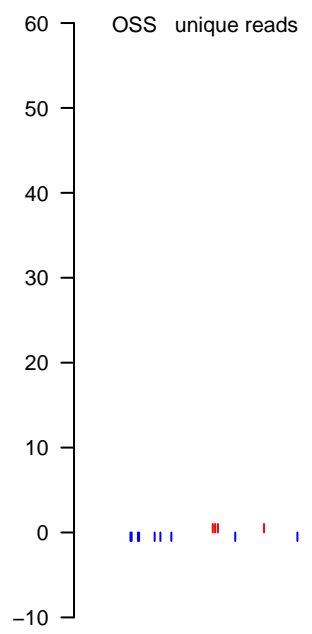
OSS norm. reads



ras X + 10638539 10643193

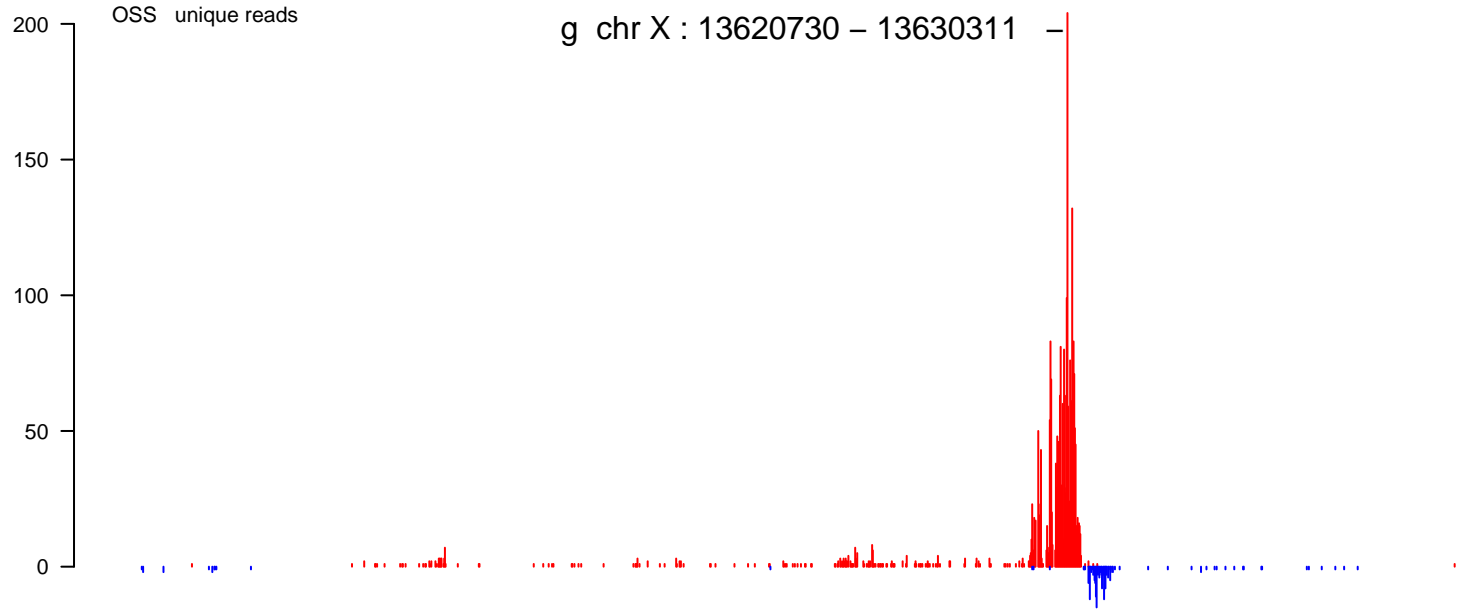


I(3)L1231 chr 3R : 10468358 – 10481423

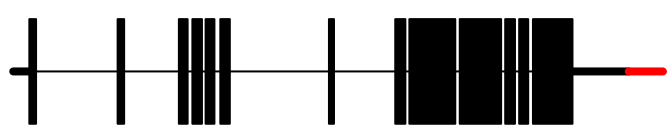
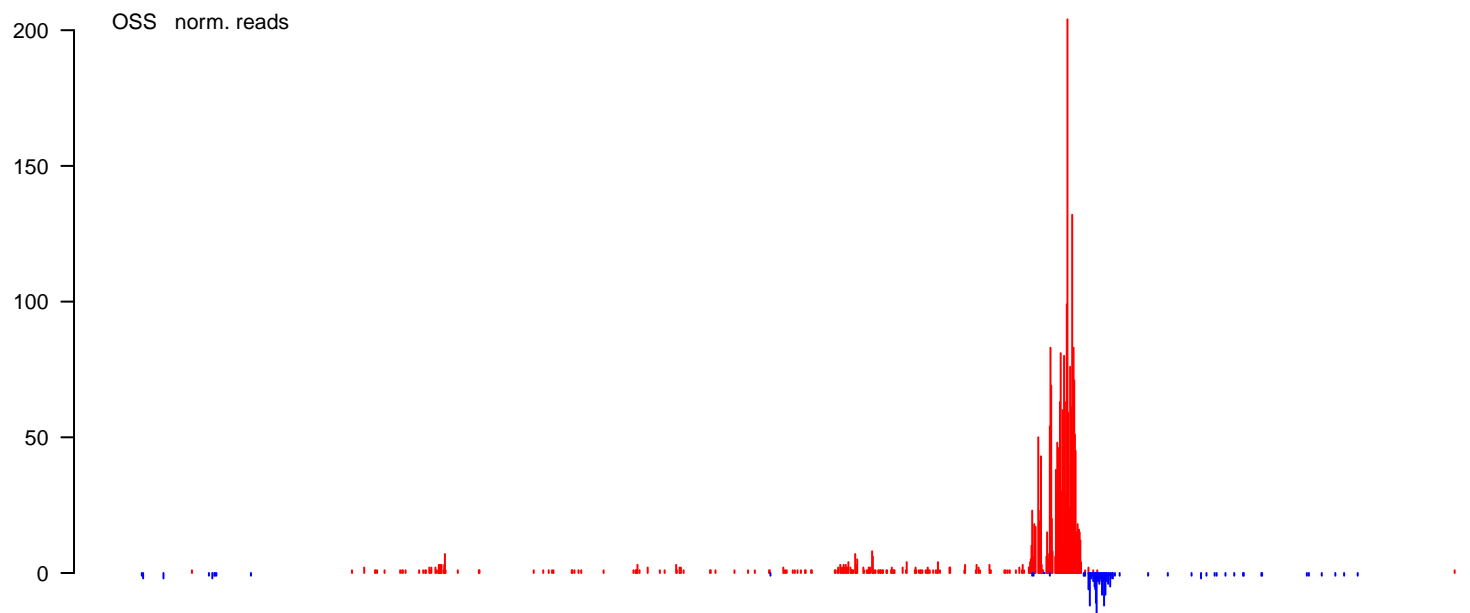


OSS unique reads

g chr X : 13620730 – 13630311



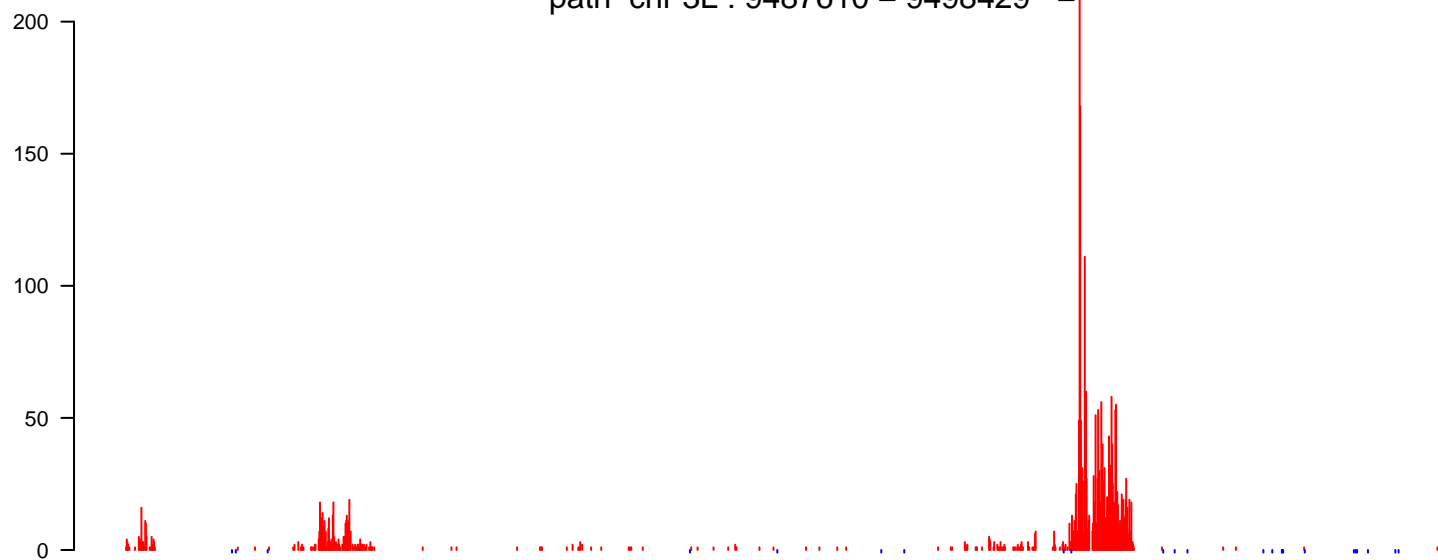
OSS norm. reads



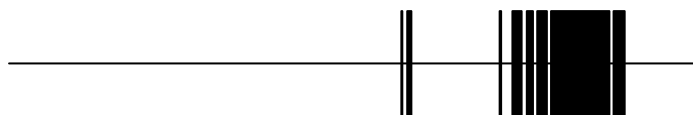
g X – 13620730 13630311

path chr 3L : 9487610 – 9498429

OSS unique reads



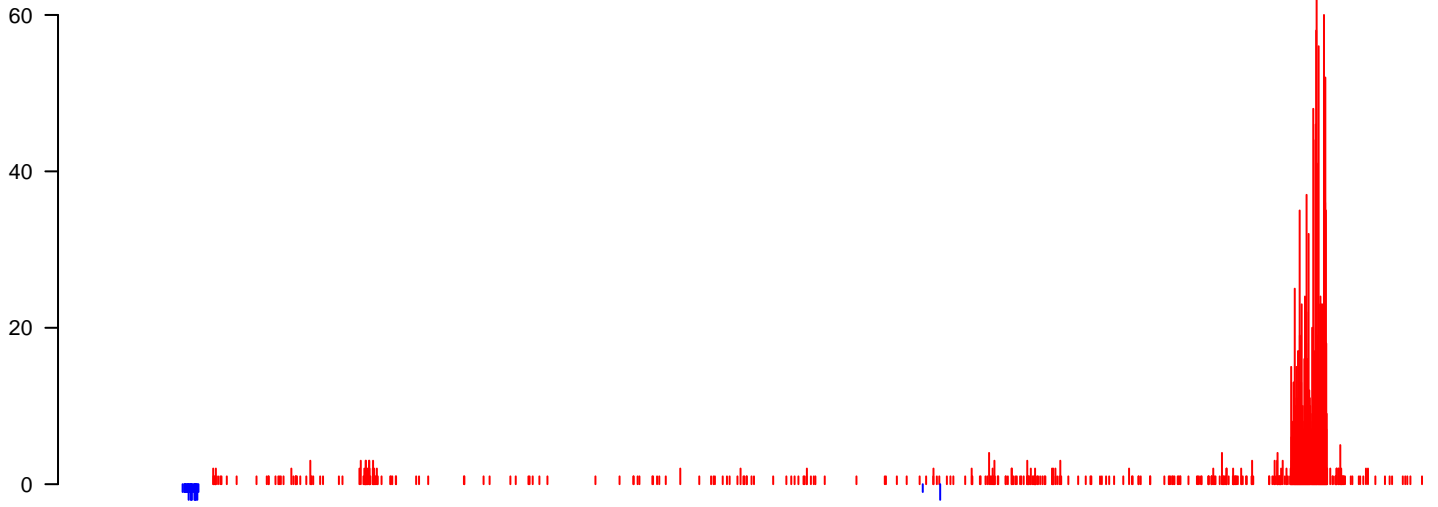
OSS norm. reads



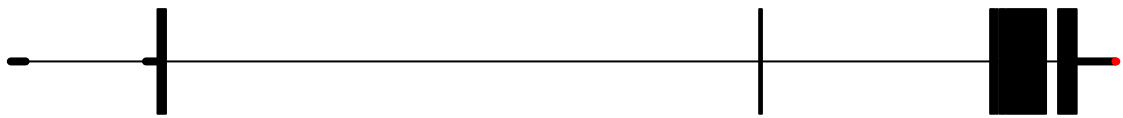
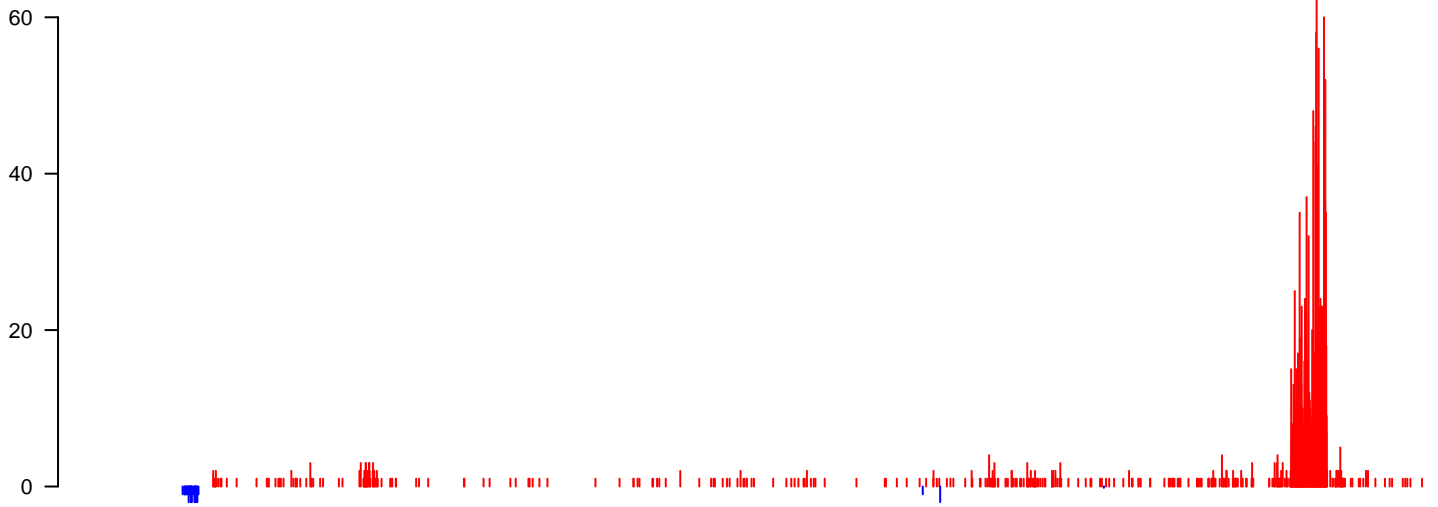
path 3L – 9487610 9498429

OSS unique reads

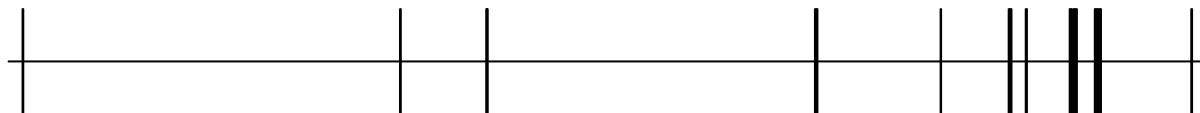
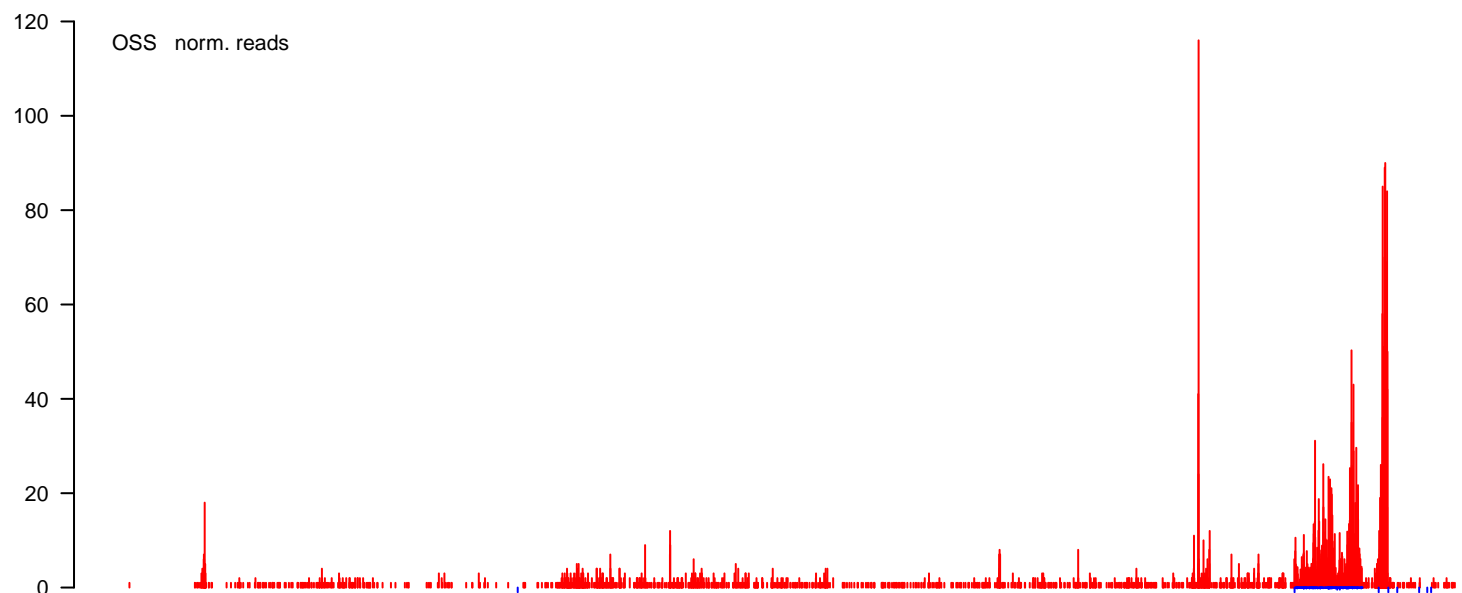
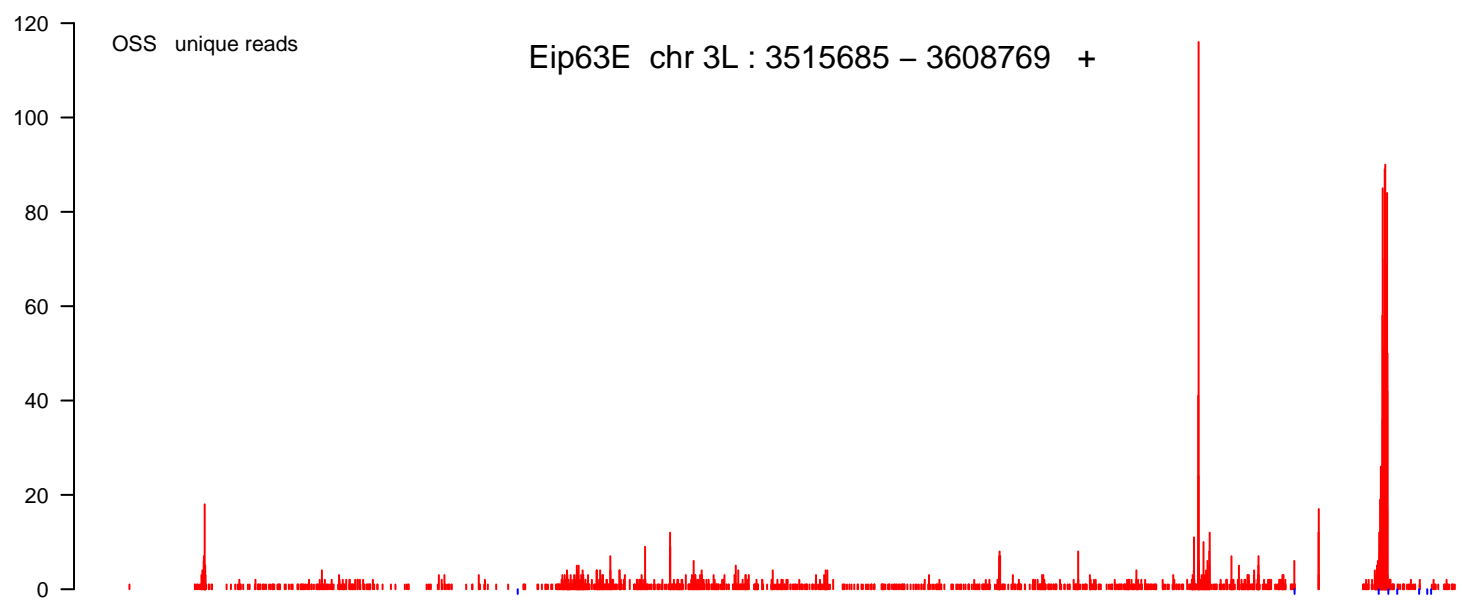
cdi chr 3R : 14870604 – 14920076 –



OSS norm. reads

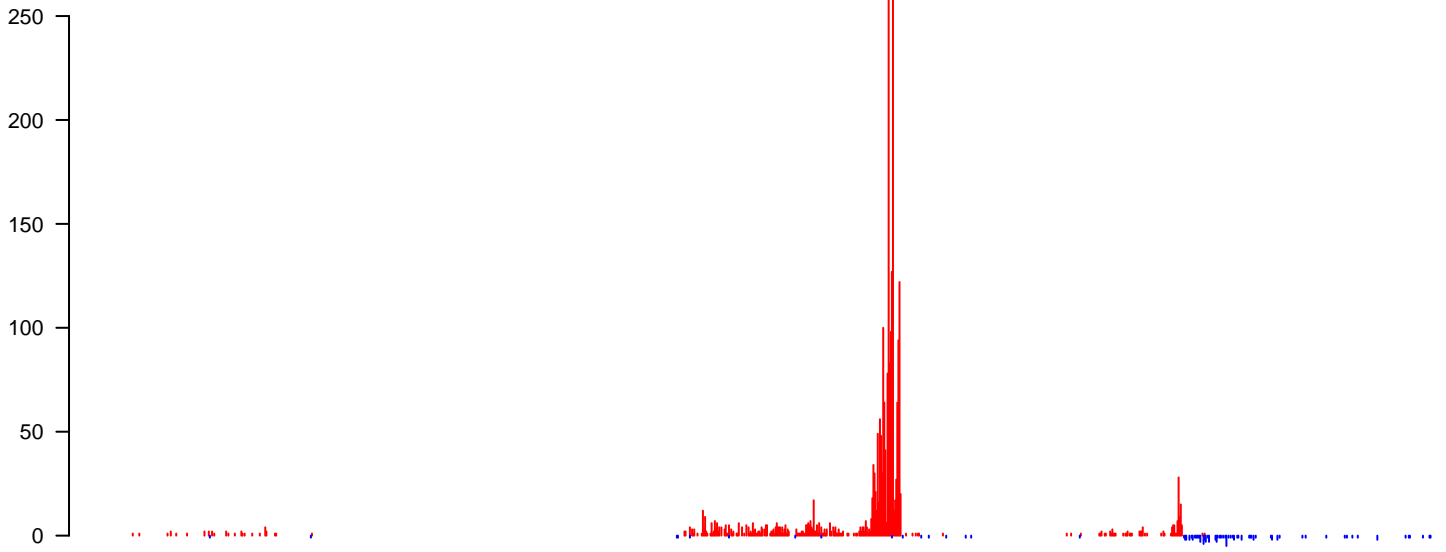


cdi 3R – 14870604 14920076

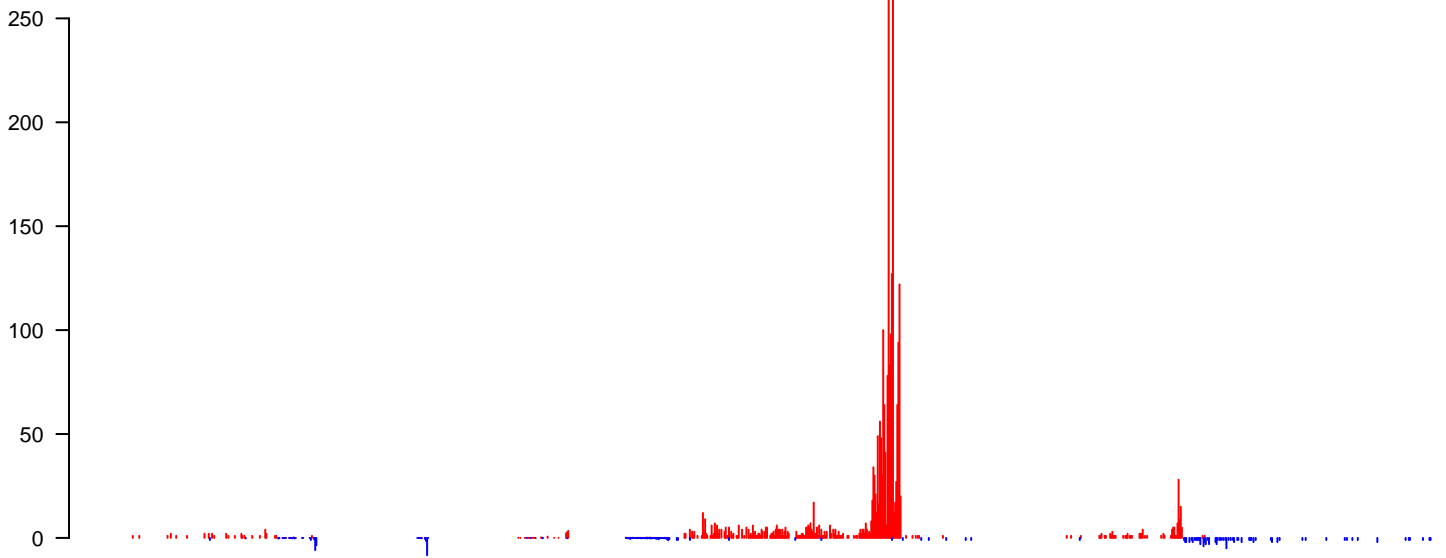


OSS unique reads

CG18446 chr 2R : 5758977 – 5761204 +

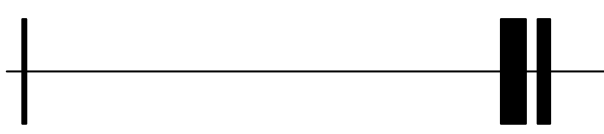
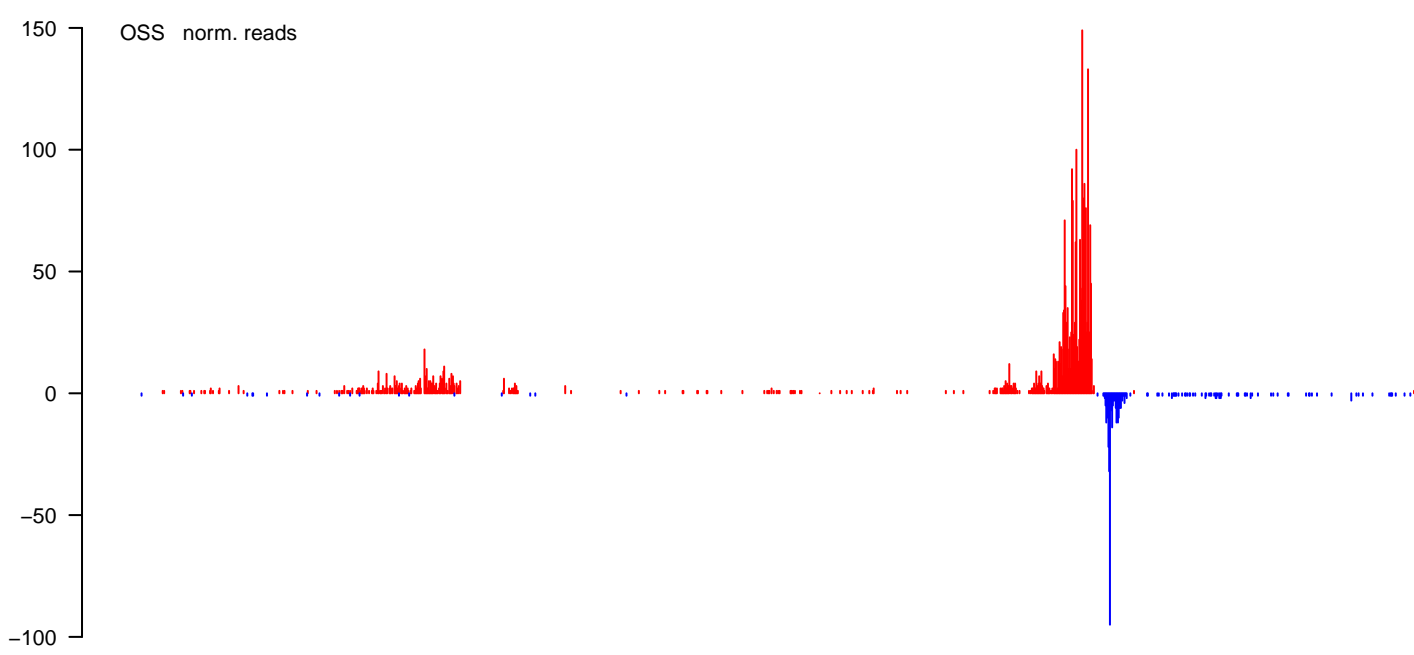
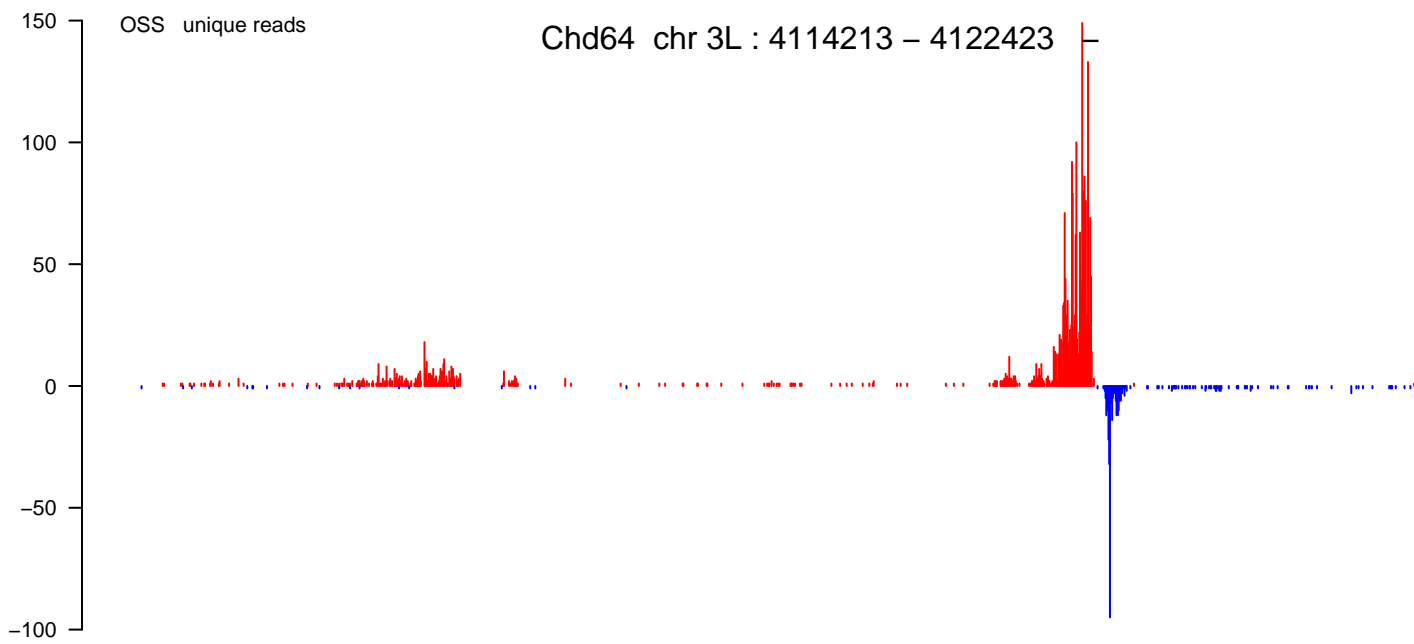


OSS norm. reads

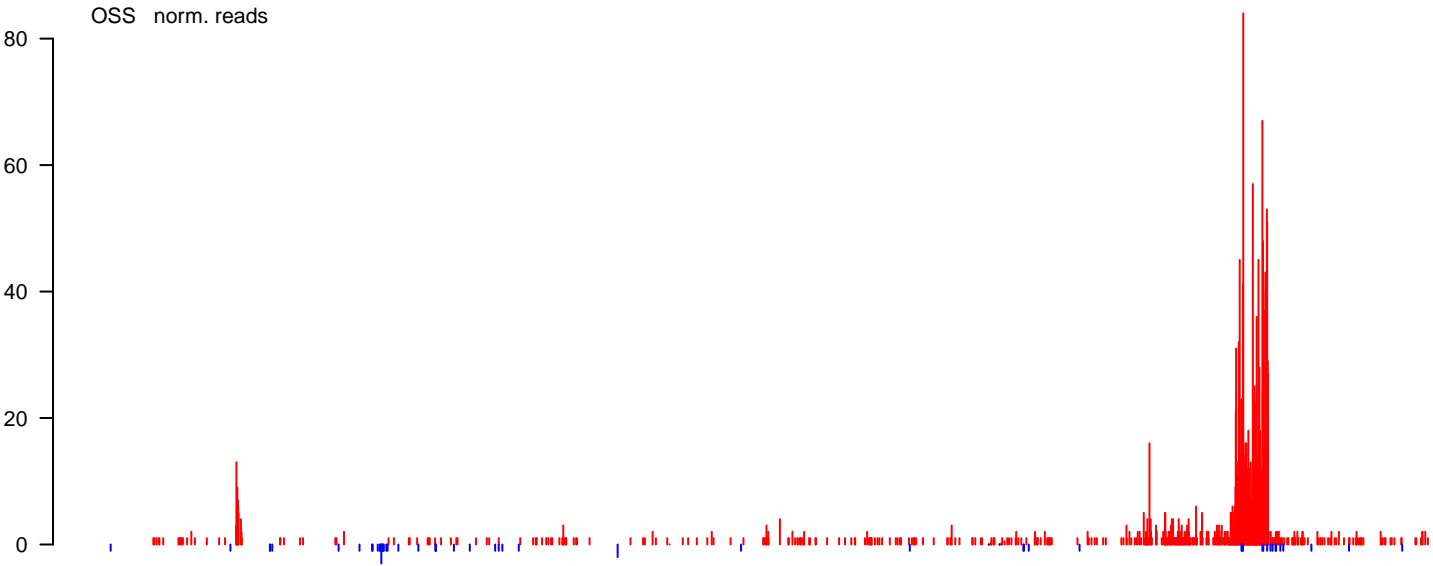
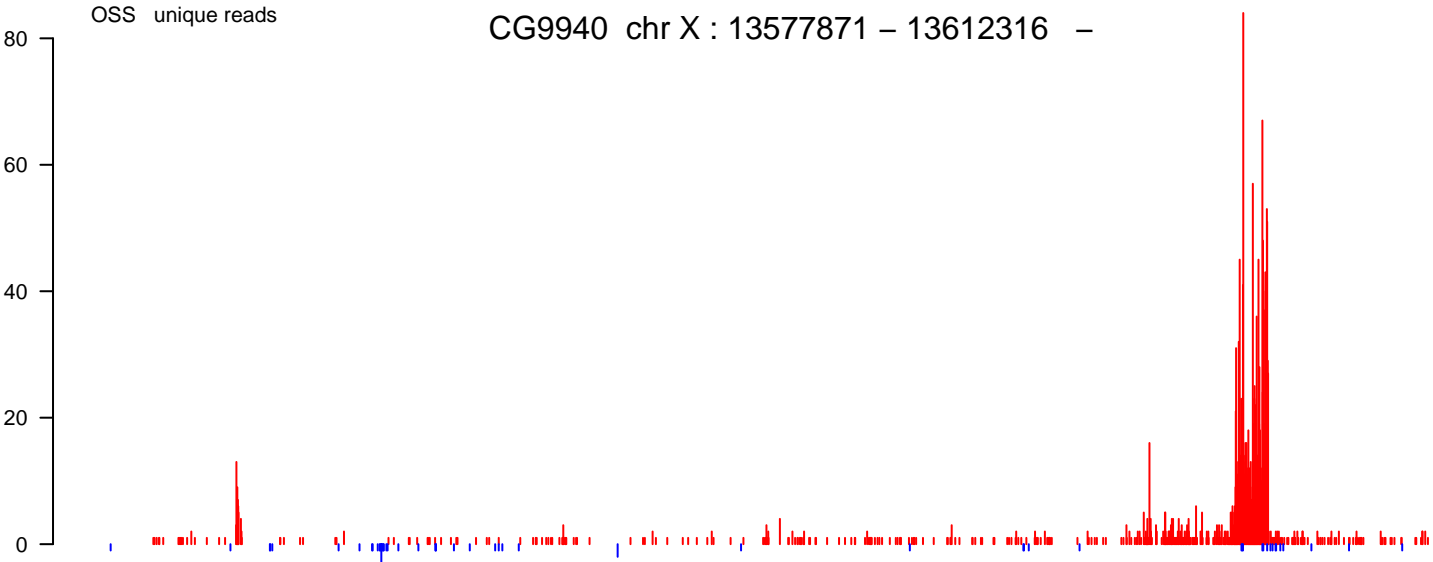


CG18446 2R + 5758977 5761204

Chd64 chr 3L : 4114213 – 4122423



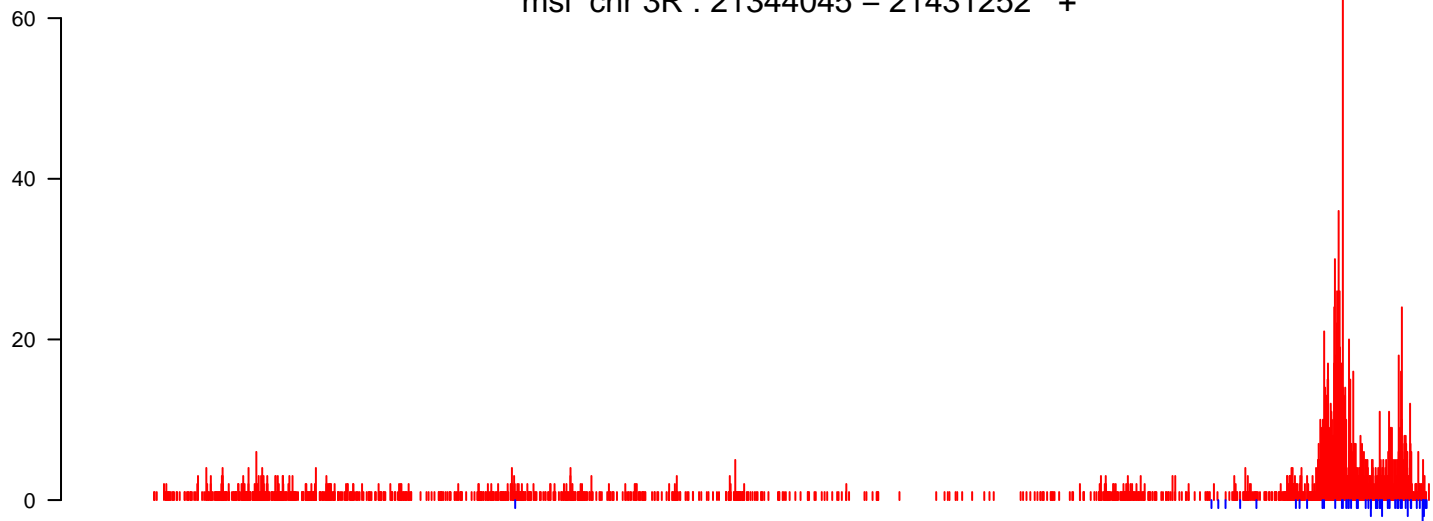
CG9940 chr X : 13577871 – 13612316 –



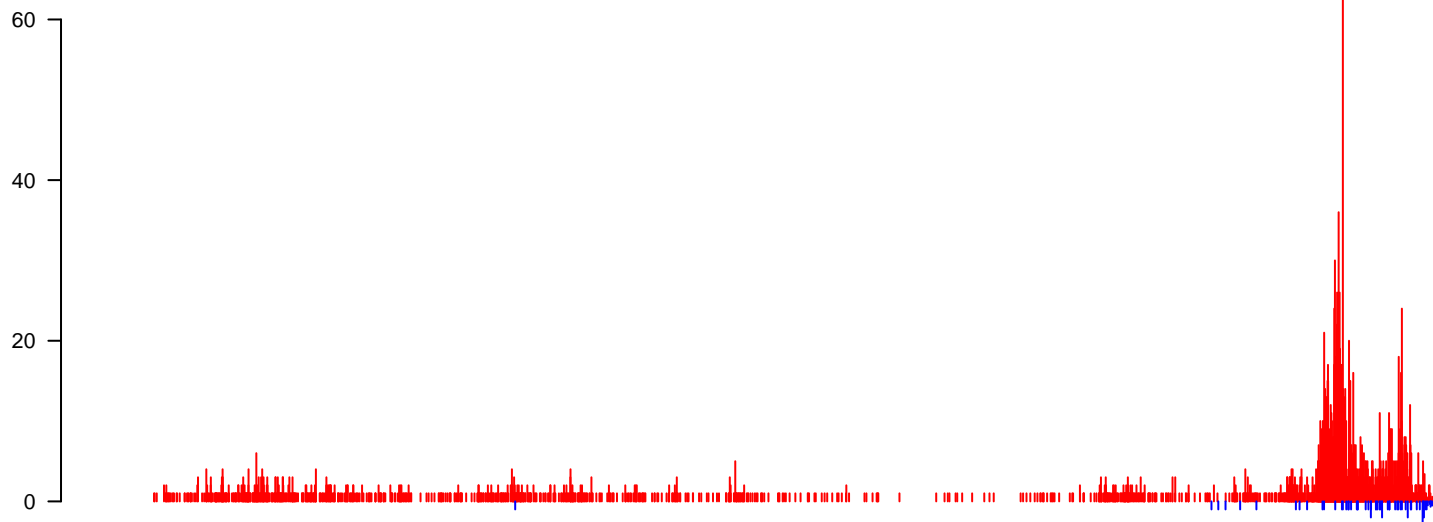


msi chr 3R : 21344045 – 21431252 +

OSS unique reads



OSS norm. reads

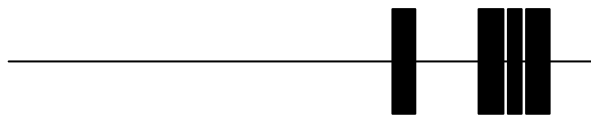
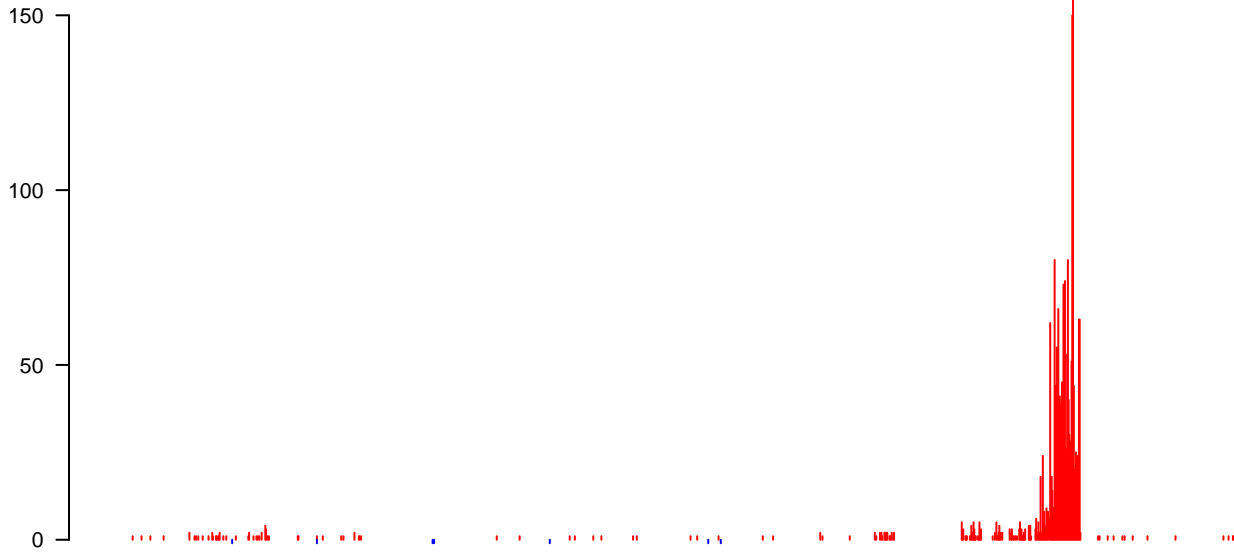


OSS unique reads

desat1 chr 3R : 8265322 – 8273340 +



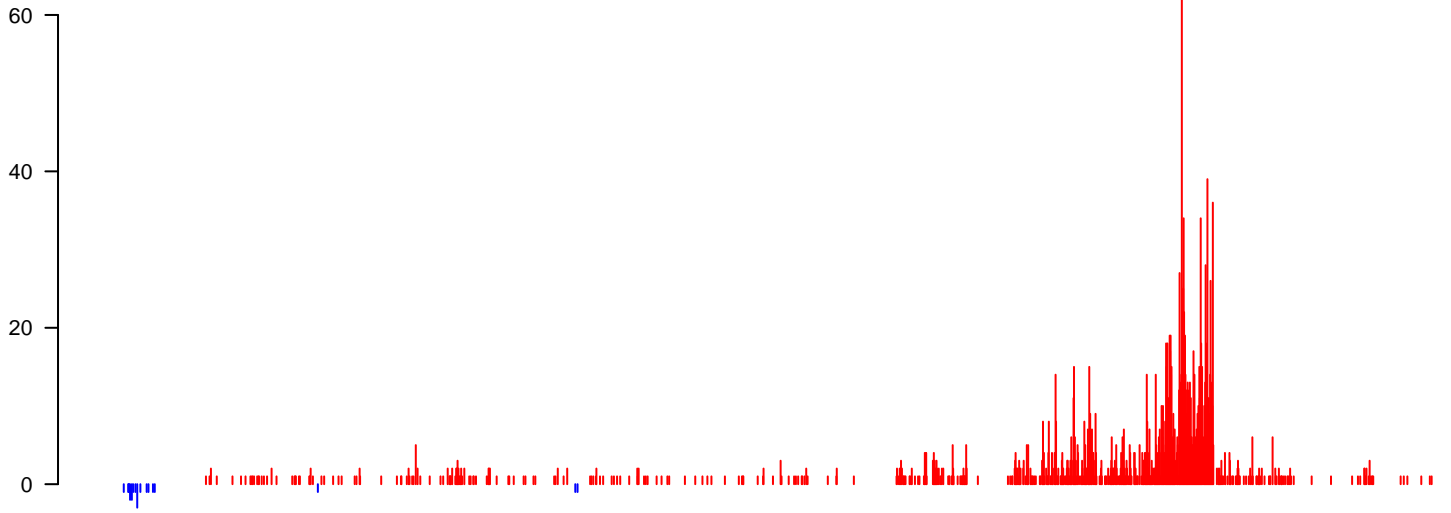
OSS norm. reads



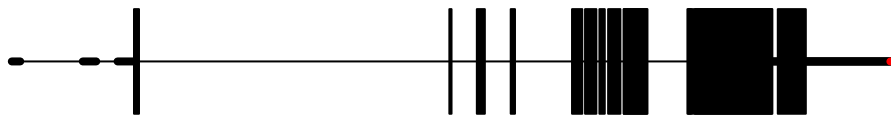
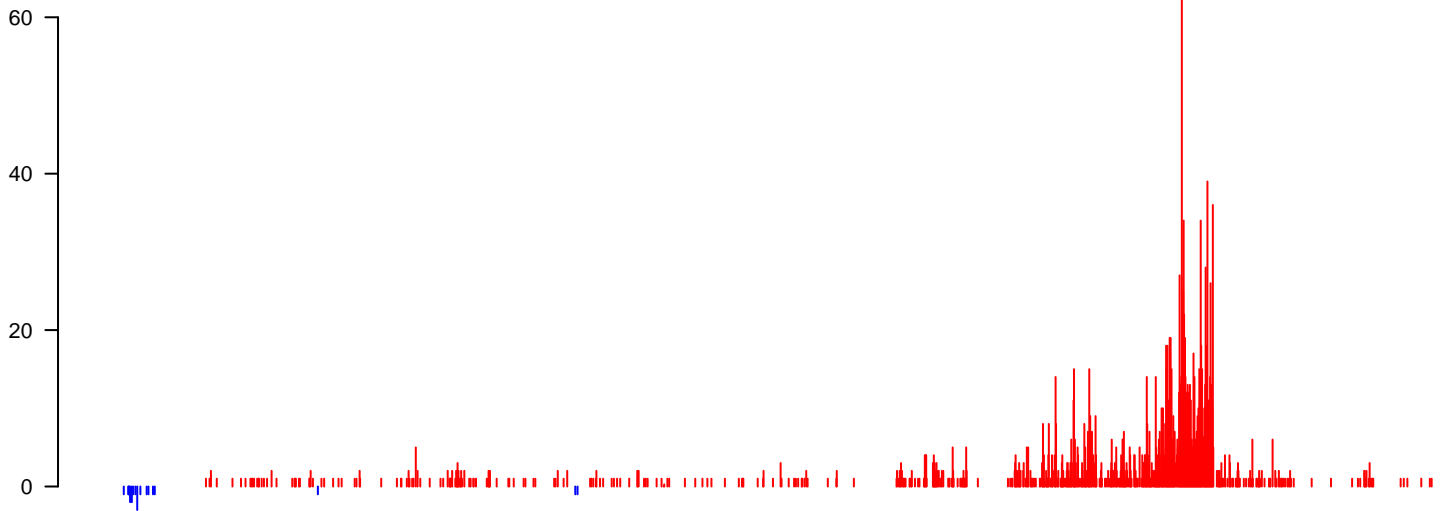
desat1 3R + 8265322 8273340

OSS unique reads

CG3638 chr X : 11111111 – 1130666 –



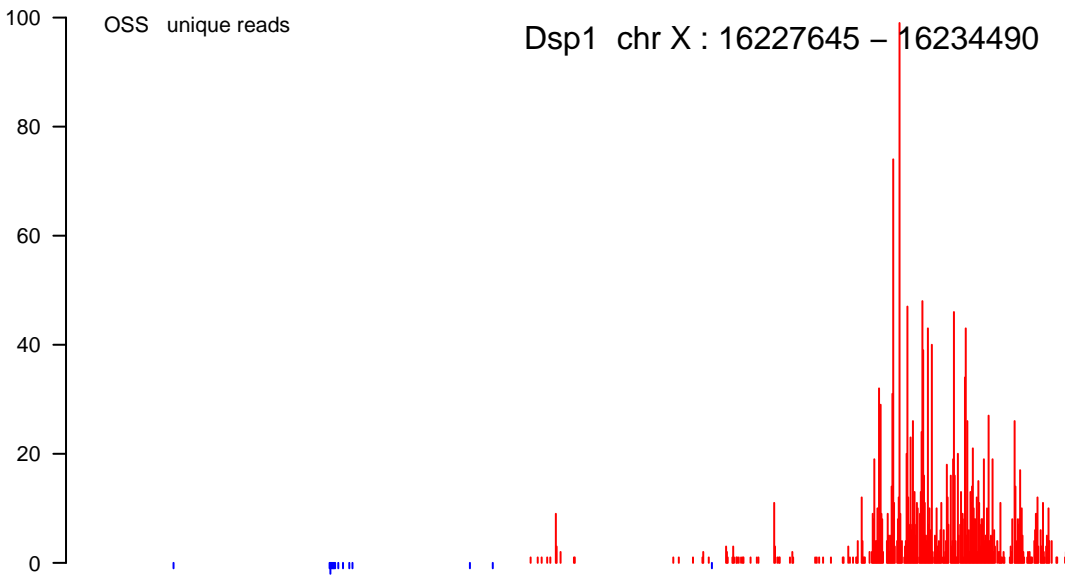
OSS norm. reads



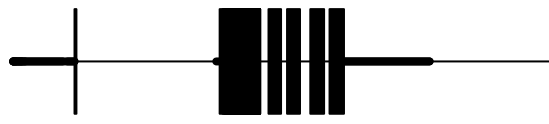
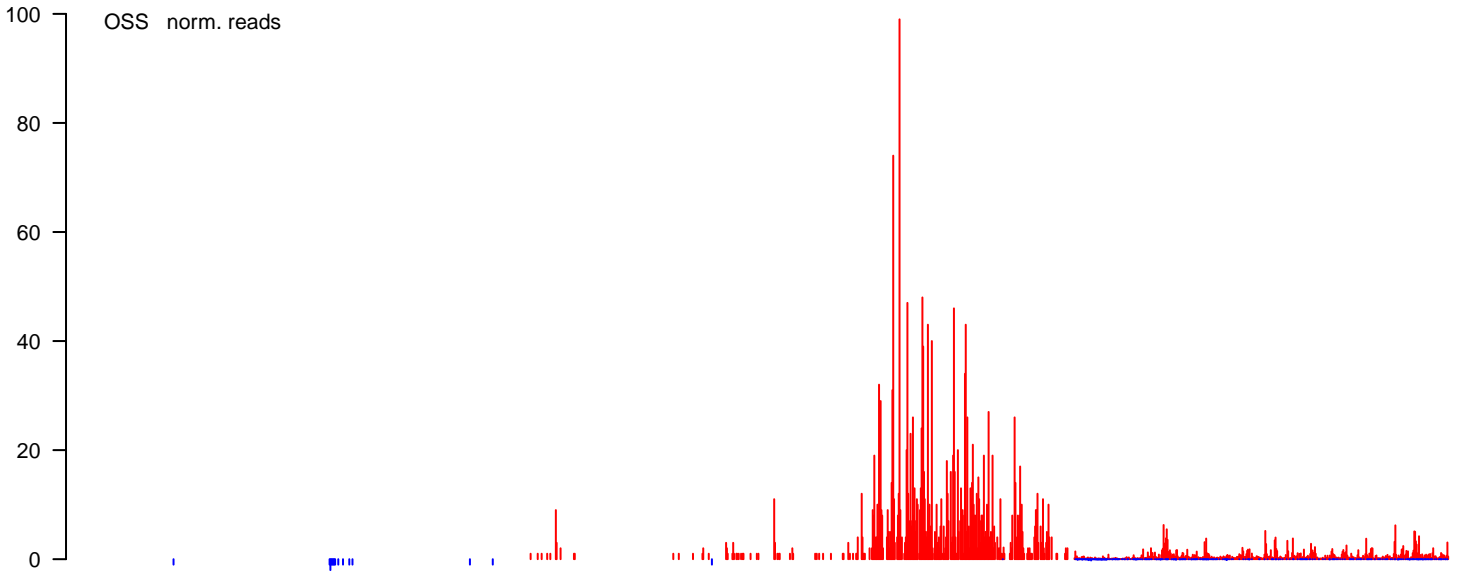
CG3638 X – 11111111 1130666

OSS unique reads

Dsp1 chr X : 16227645 - 16234490 +



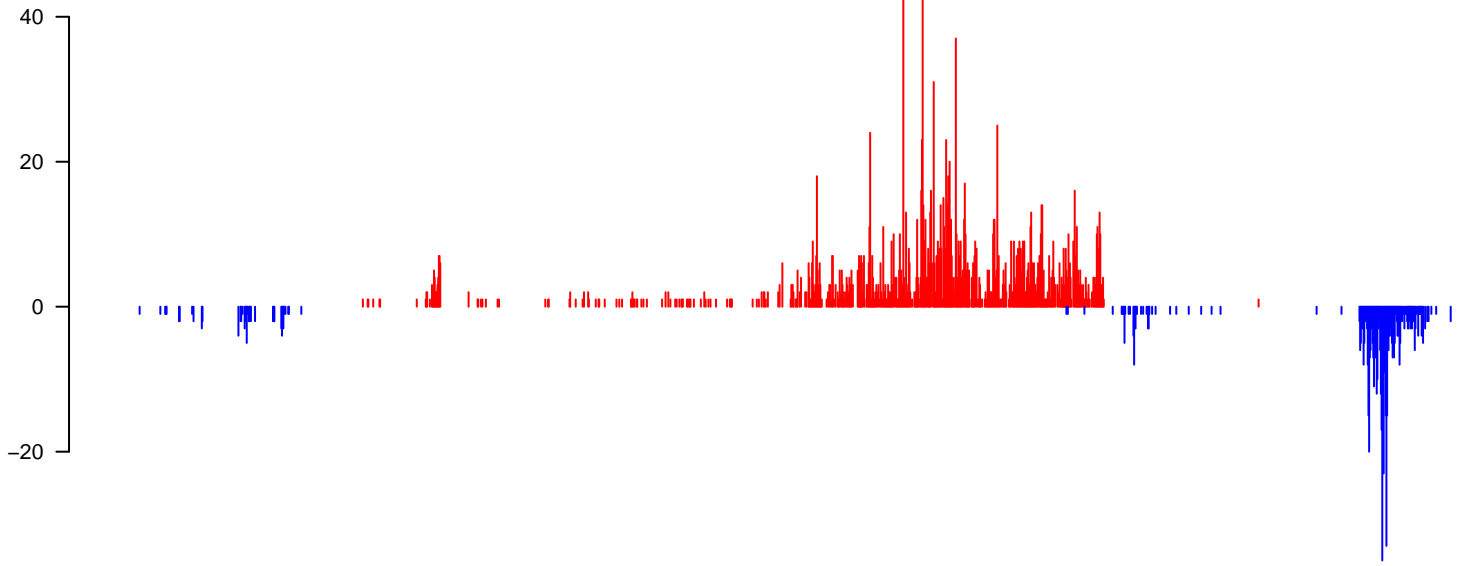
OSS norm. reads



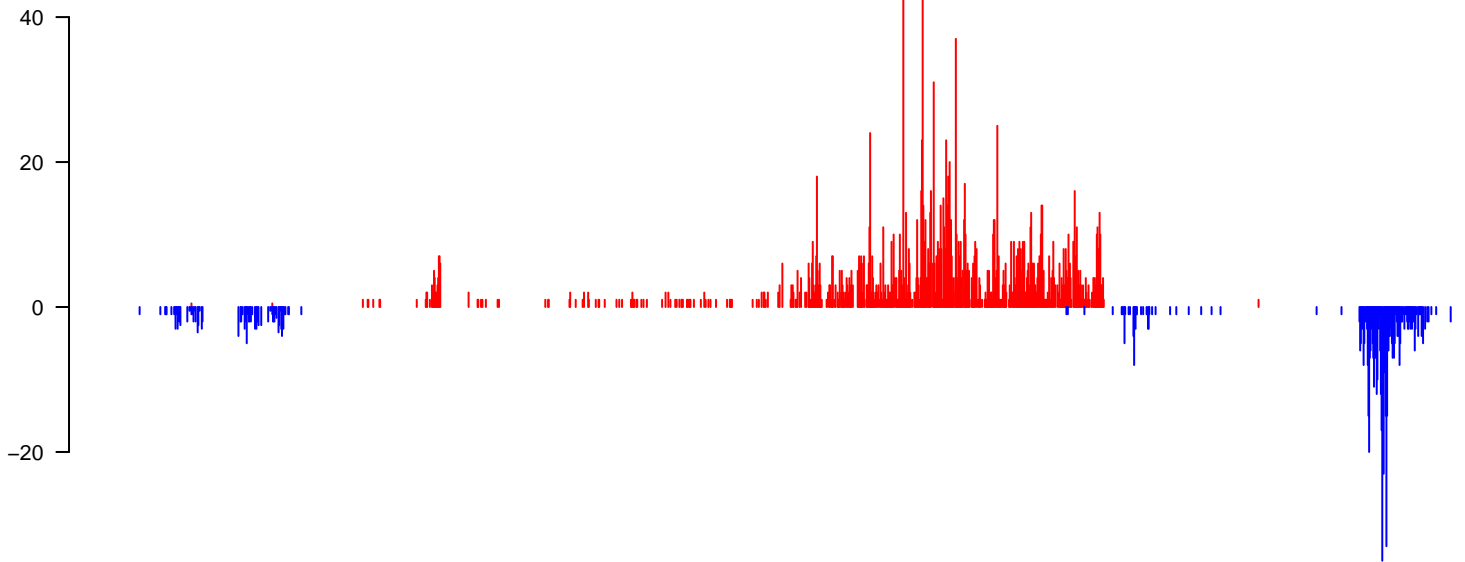
Dsp1 X + 16227645 16234490

OSS unique reads

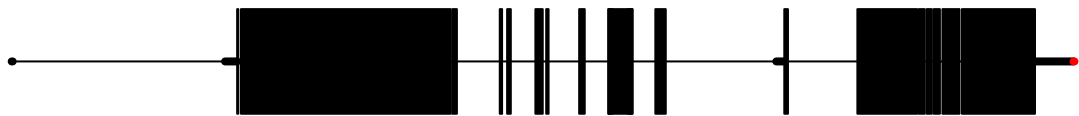
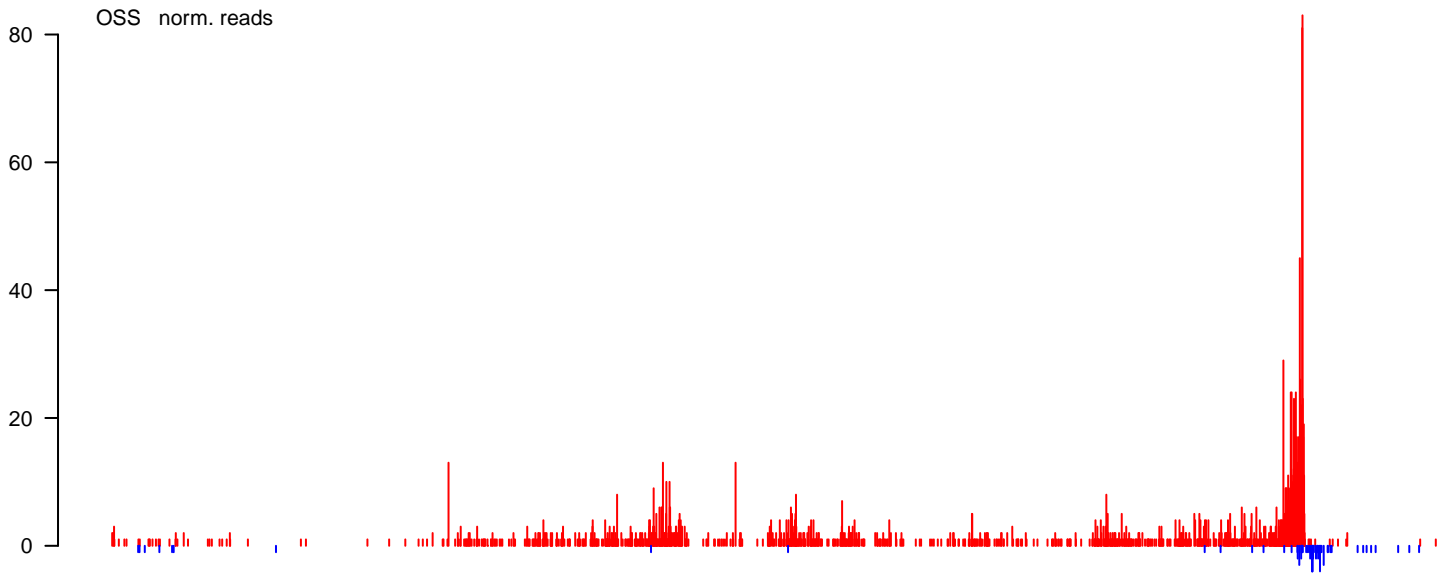
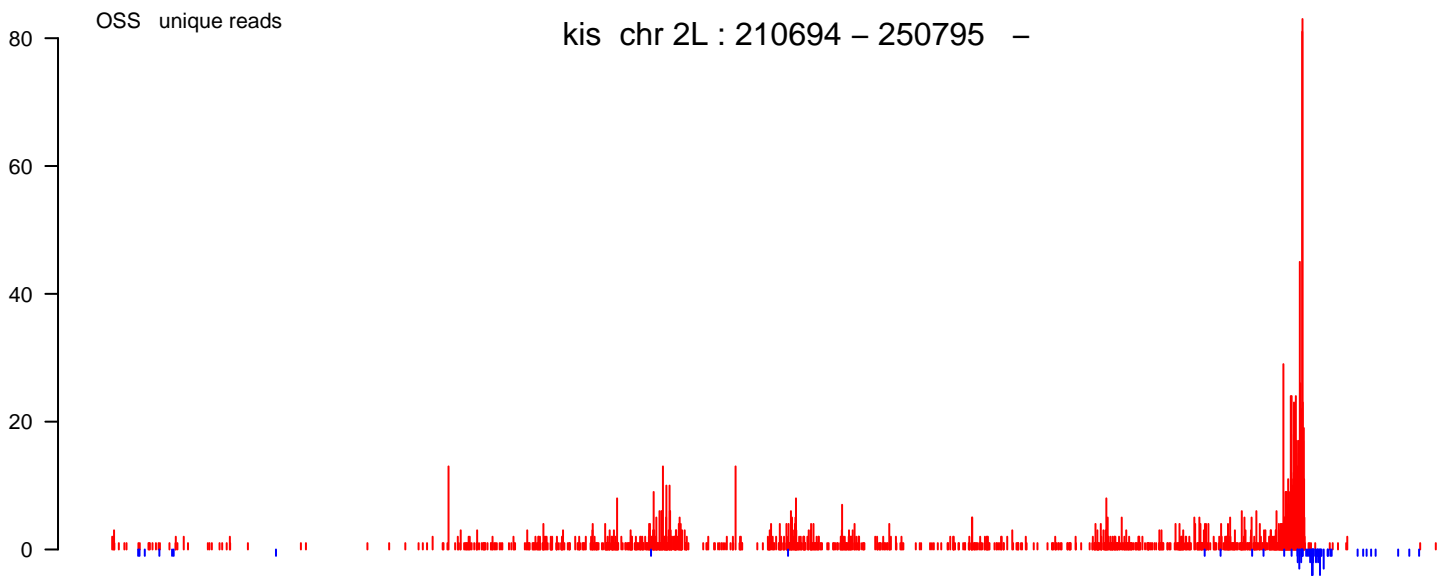
CG10777 chr X : 7816175 - 7825388 -



OSS norm. reads



CG10777 X - 7816175 7825388

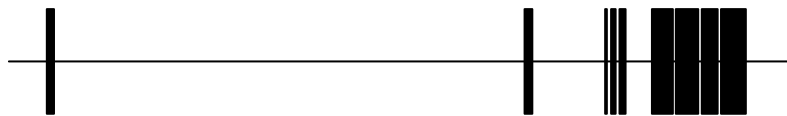
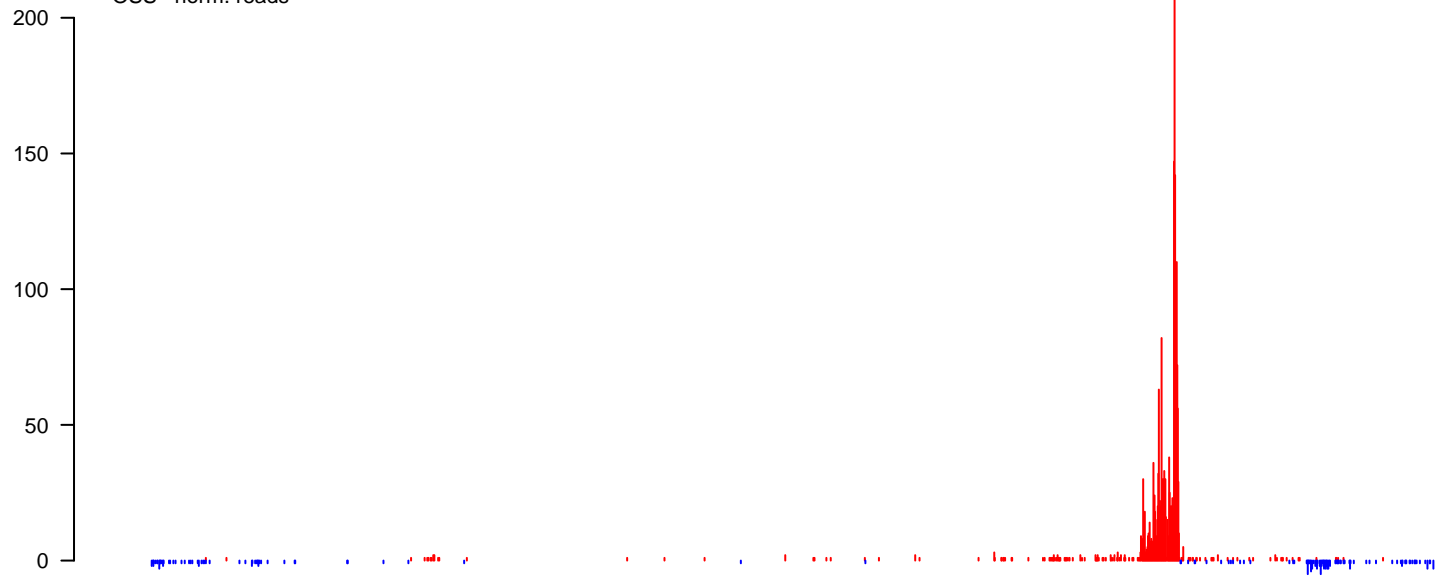


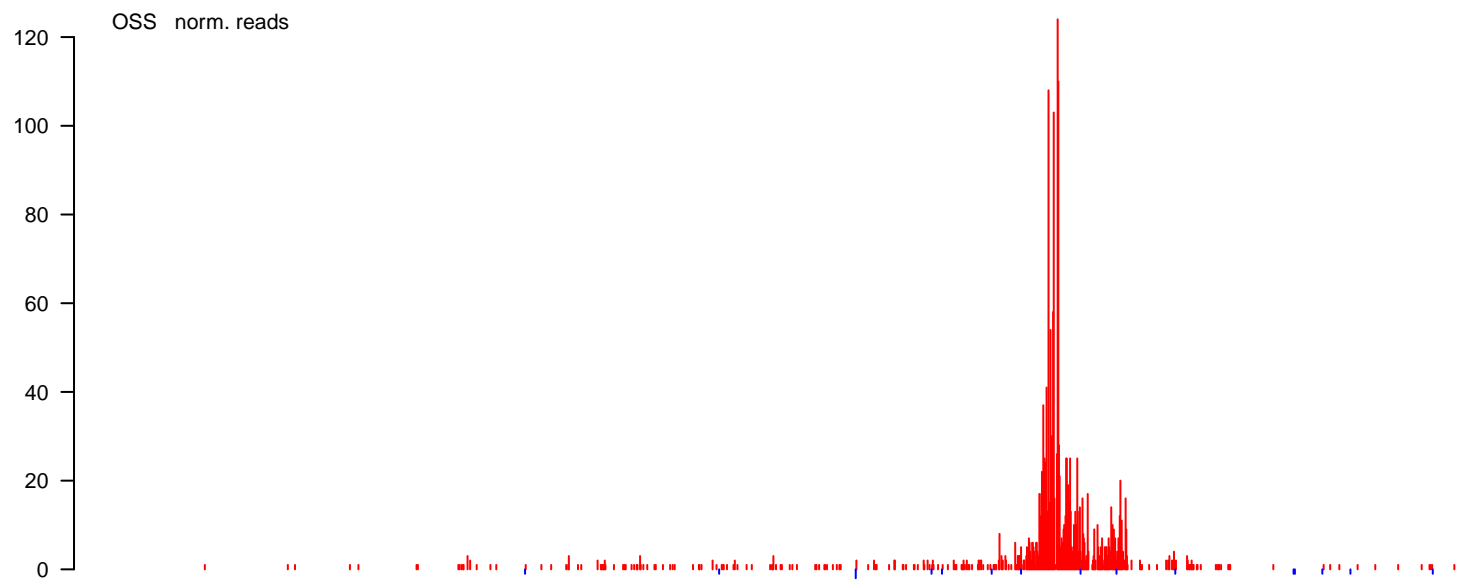
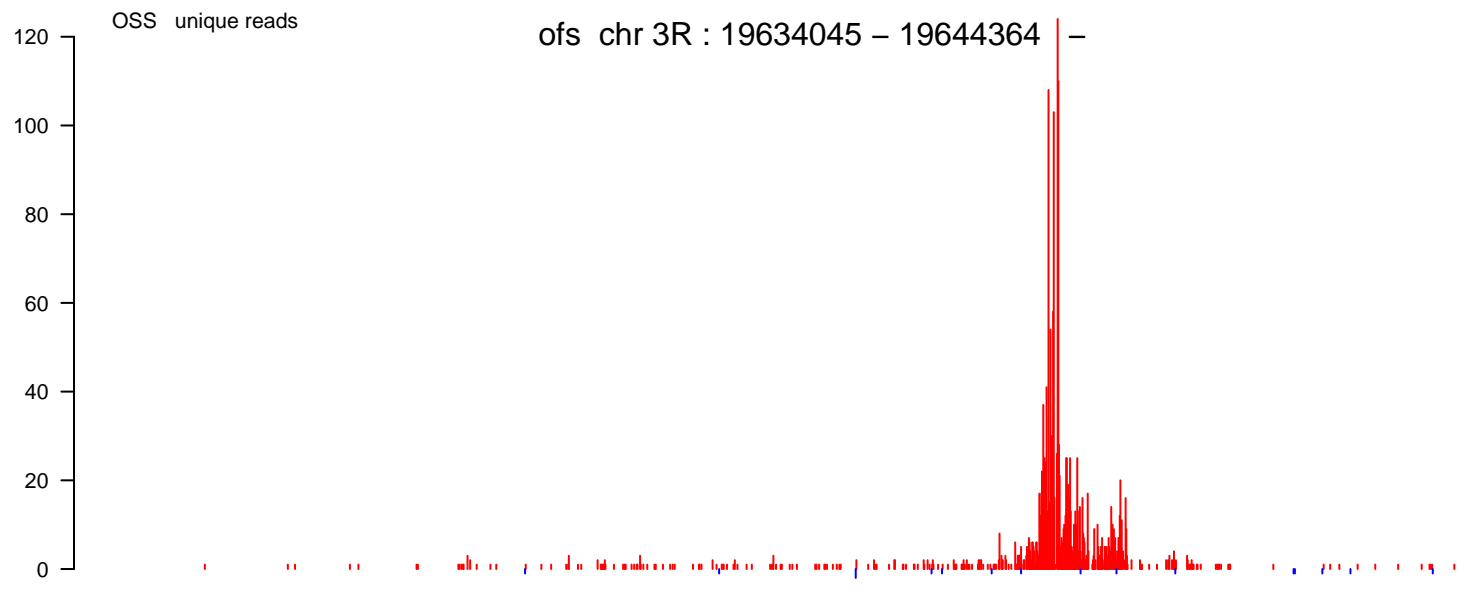
Invadolysin chr 3R : 5970421 – 5984944 +

OSS unique reads



OSS norm. reads



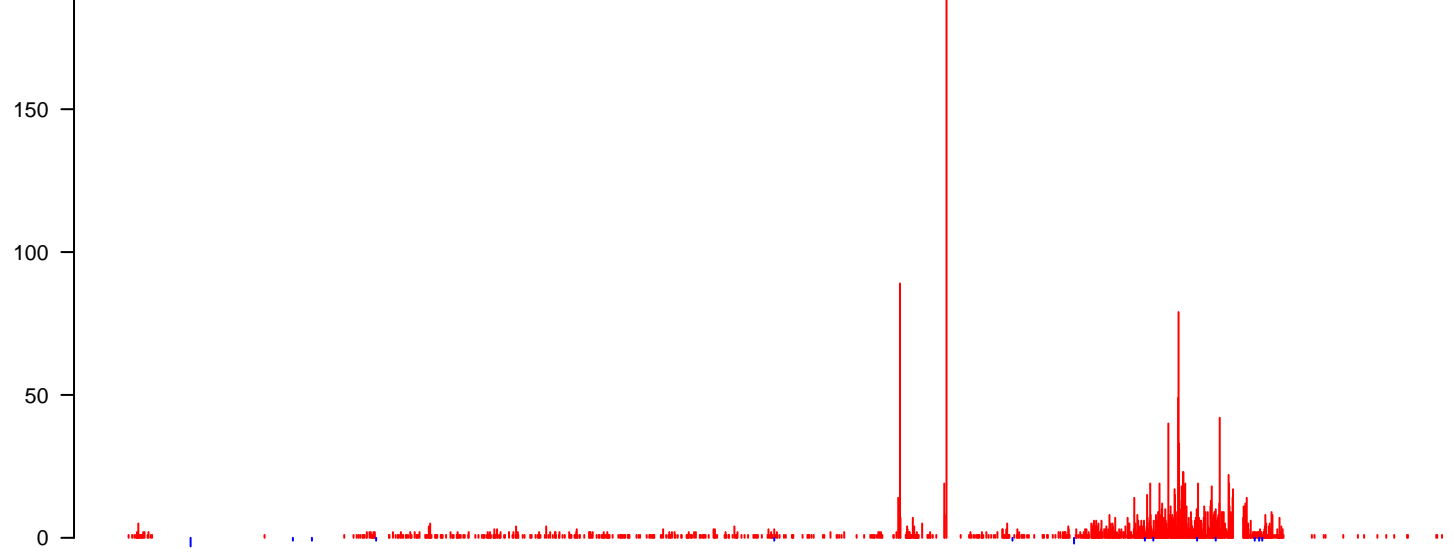


ofs 3R – 19634045 19644364

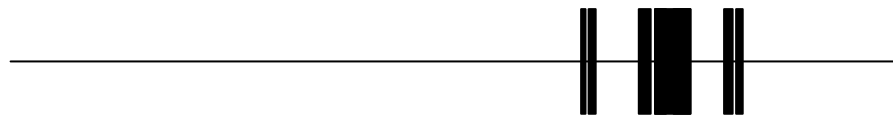
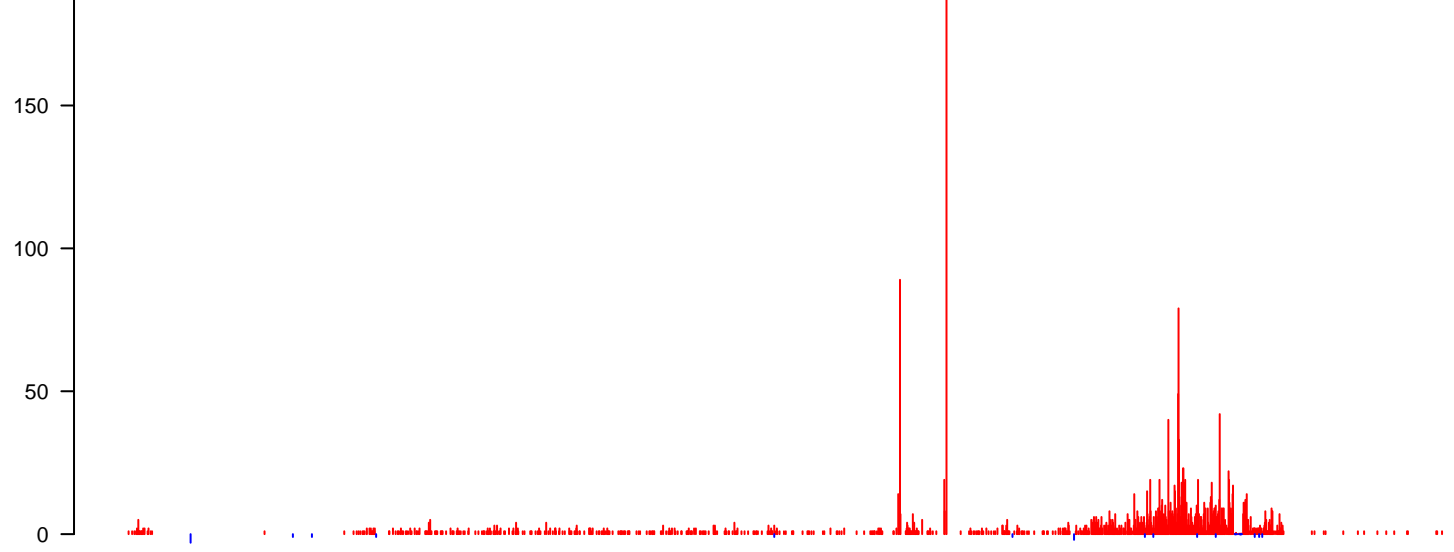


OSS unique reads

CG33936 chr 3R : 5167592 - 5187578 +



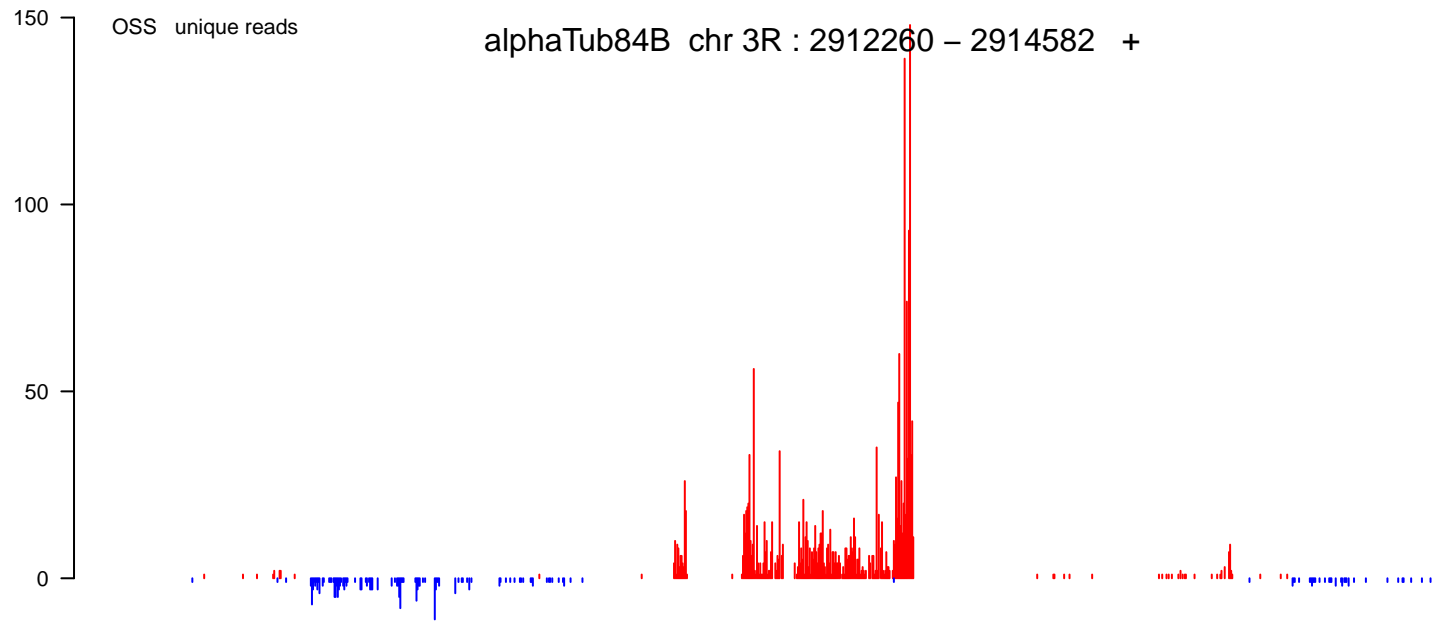
OSS norm. reads



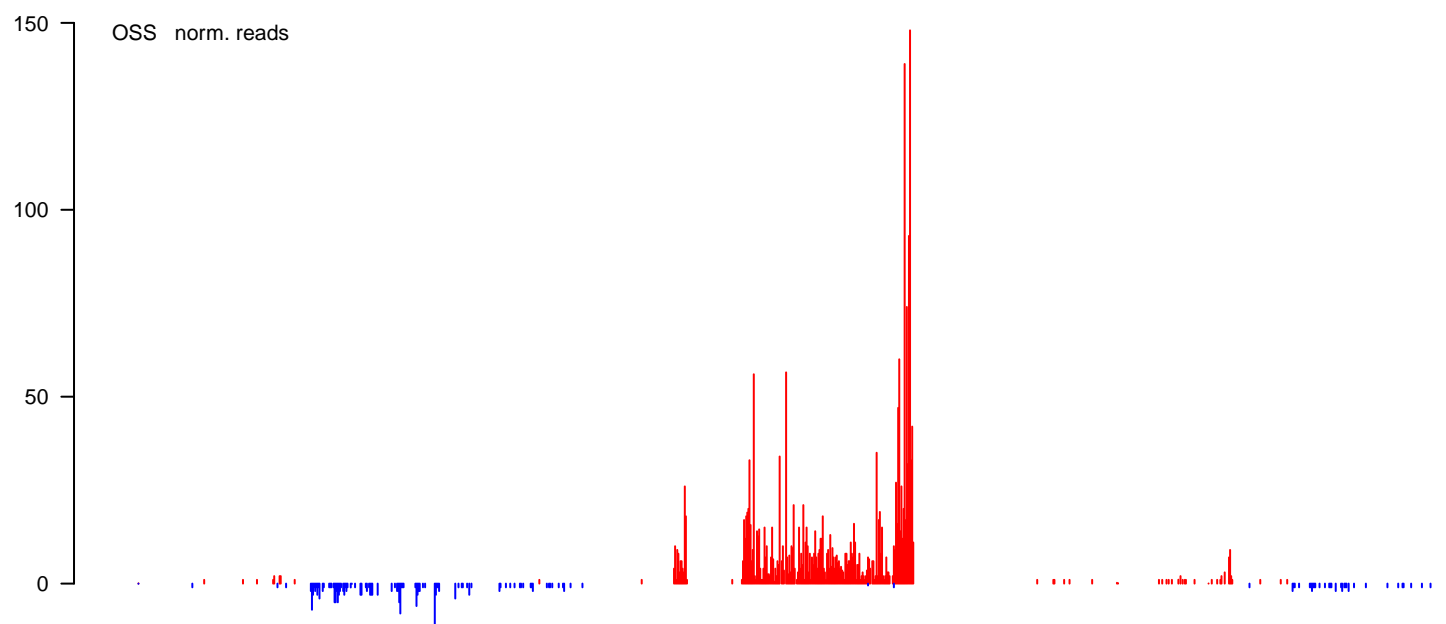
CG33936 3R + 5167592 5187578

OSS unique reads

alphaTub84B chr 3R : 2912260 – 2914582 +



OSS norm. reads



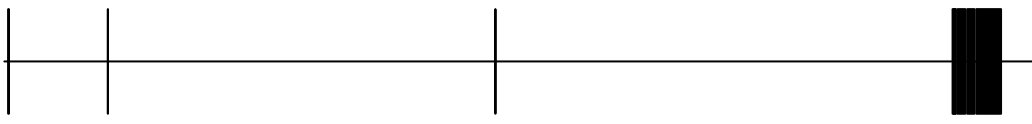
alphaTub84B 3R + 2912260 2914582

OSS unique reads

apt chr 2R : 19452420 – 19487223 +

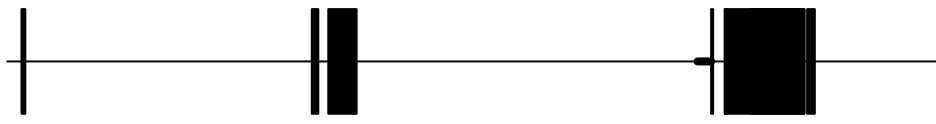
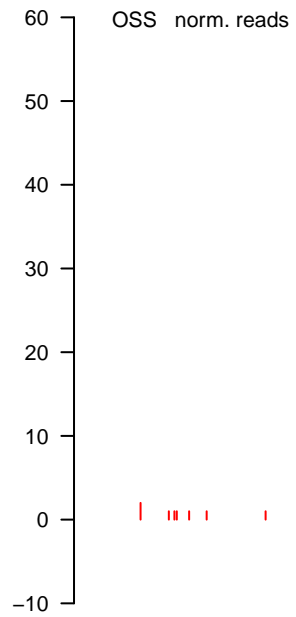
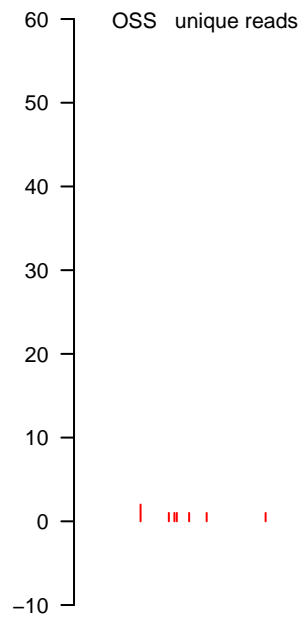


OSS norm. reads



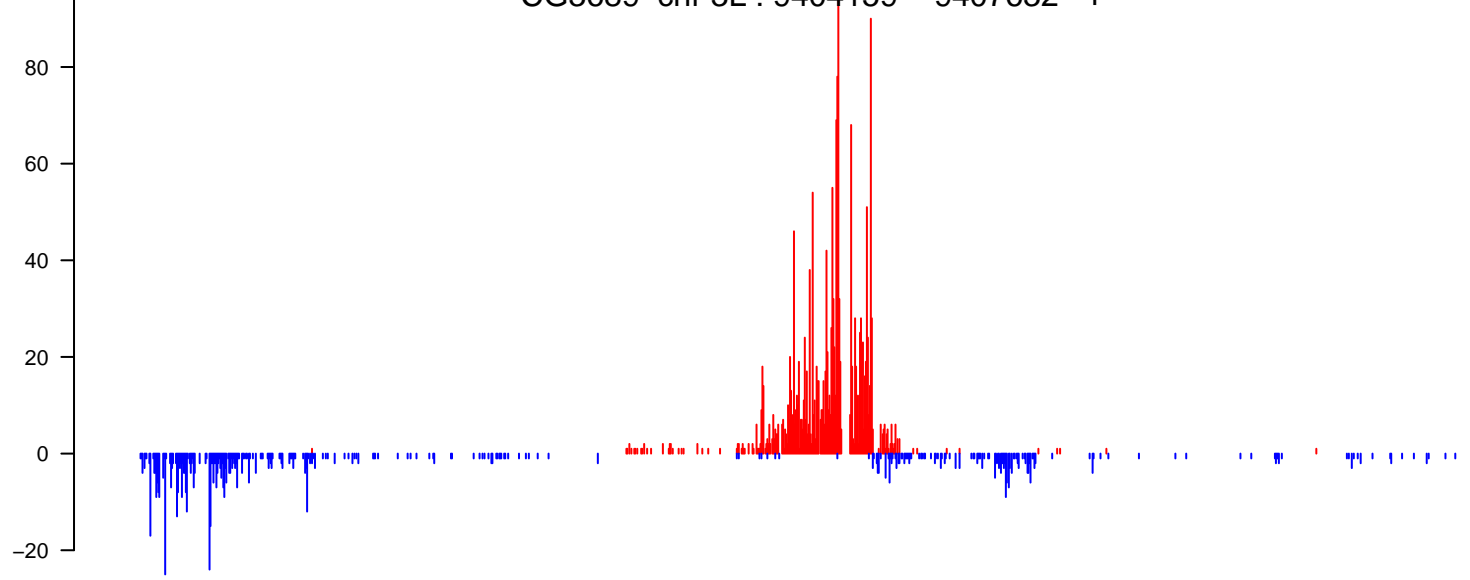
apt 2R + 19452420 19487223

zfh1 chr 3R : 26591648 – 26614989 +

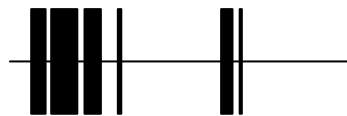
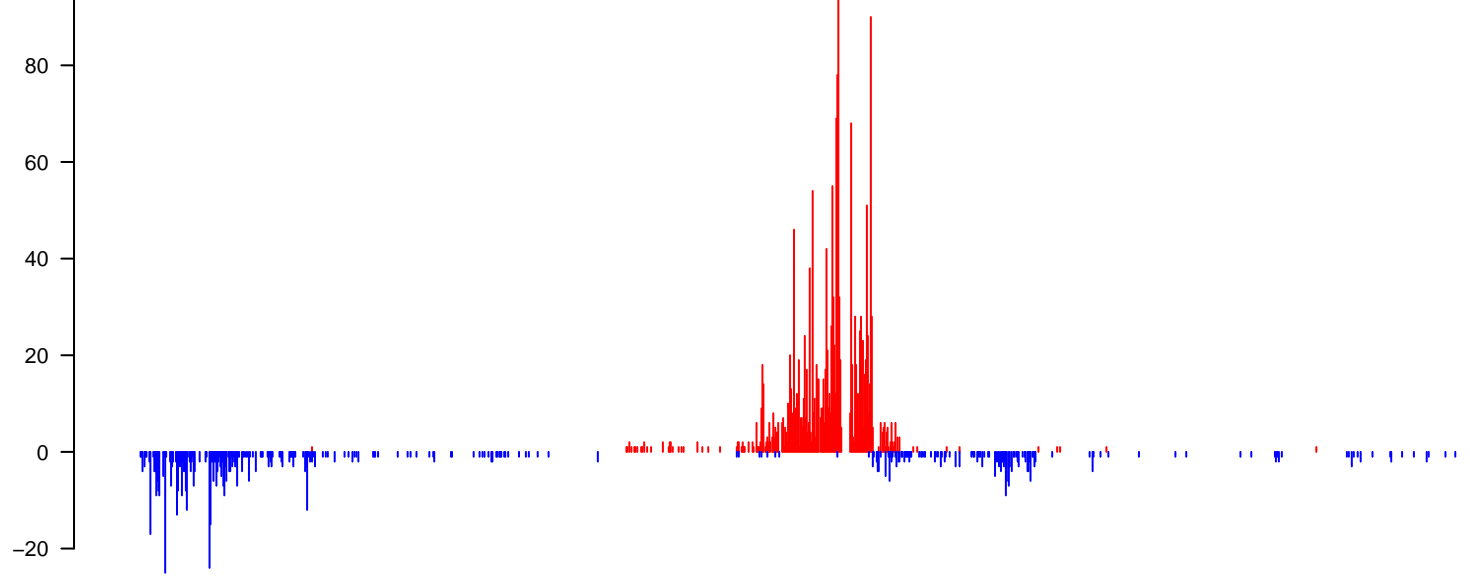


OSS unique reads

CG3689 chr 3L : 9404159 – 9407632 +



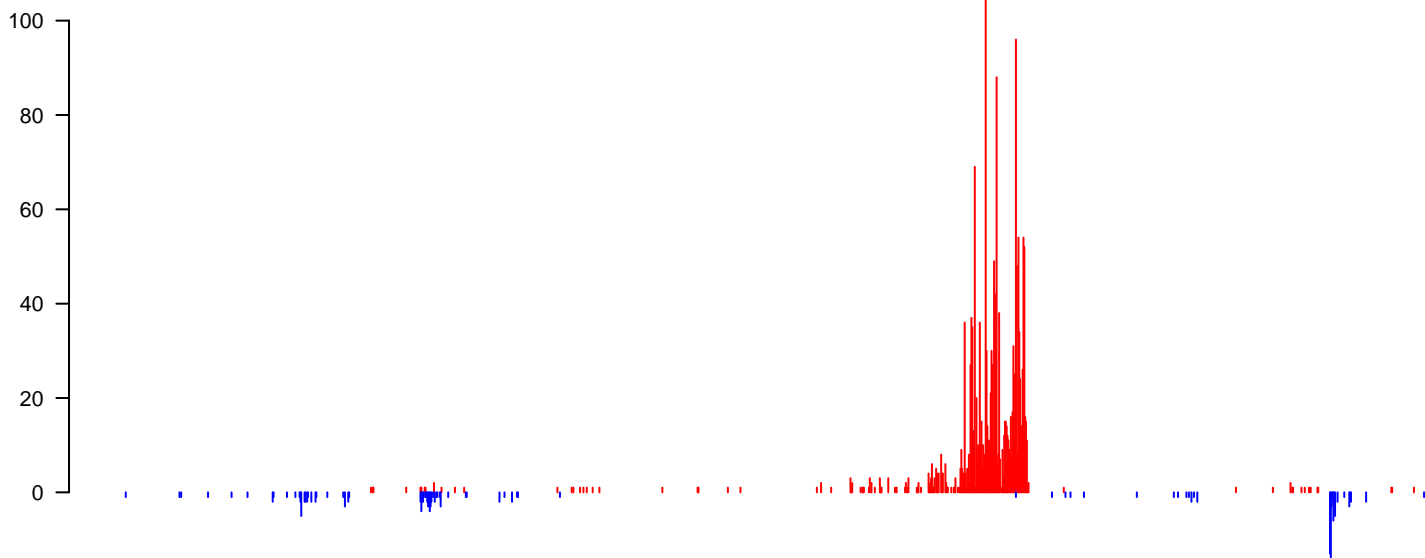
OSS norm. reads



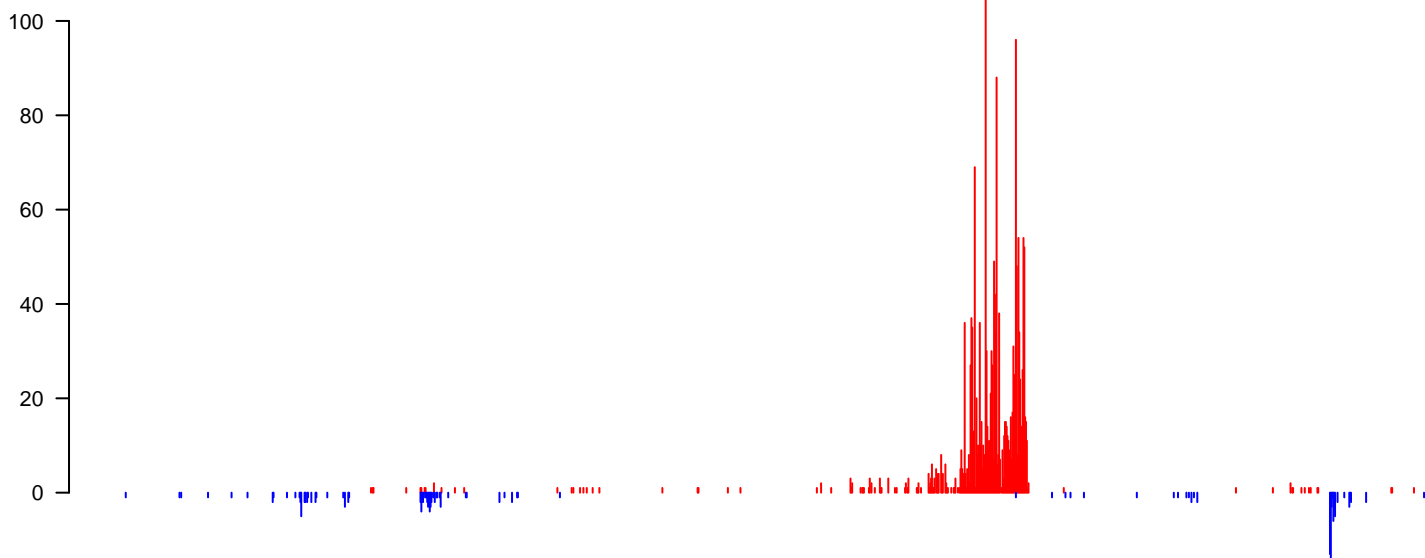
CG3689 3L + 9404159 9407632

OSS unique reads

Dp chr 2R : 9109902 – 9115714 +



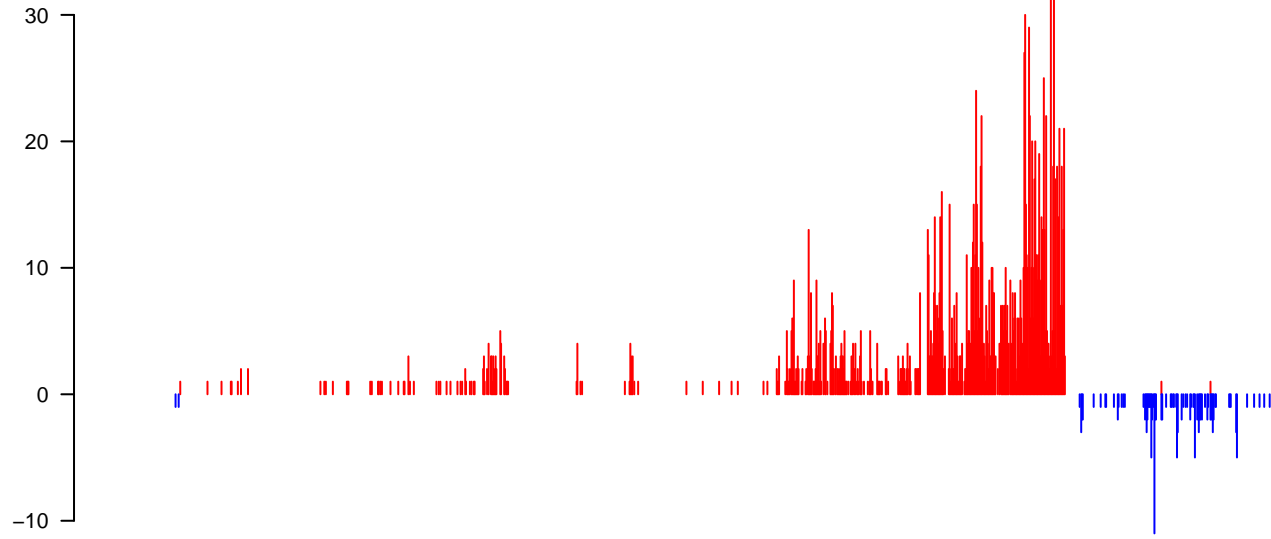
OSS norm. reads



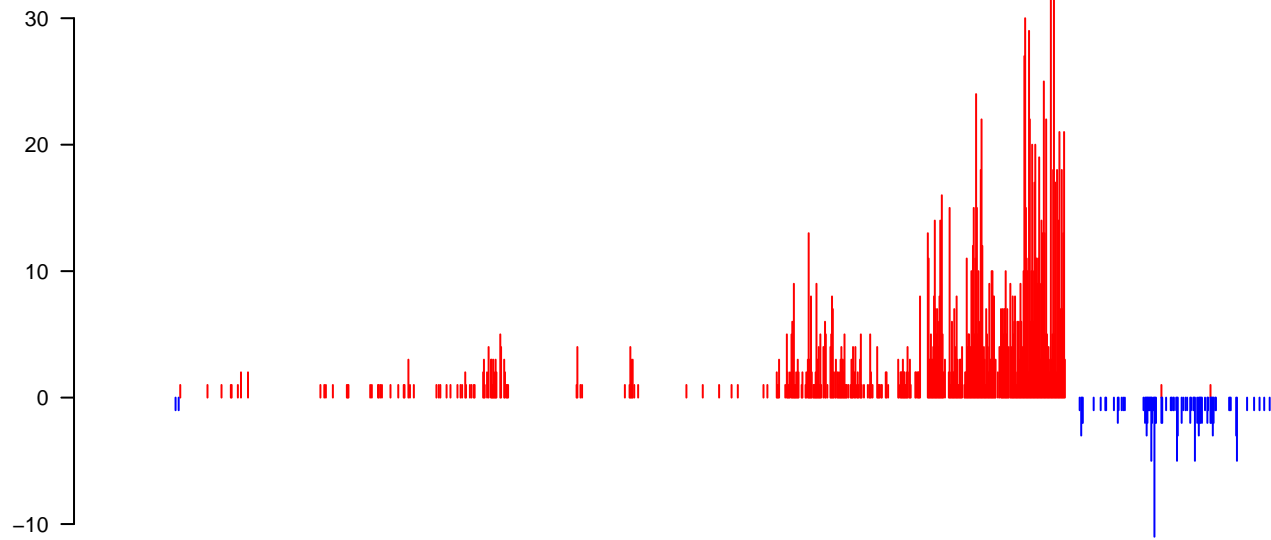
Dp 2R + 9109902 9115714

OSS unique reads

pAbp chr 2R : 14027583 – 14034635 +

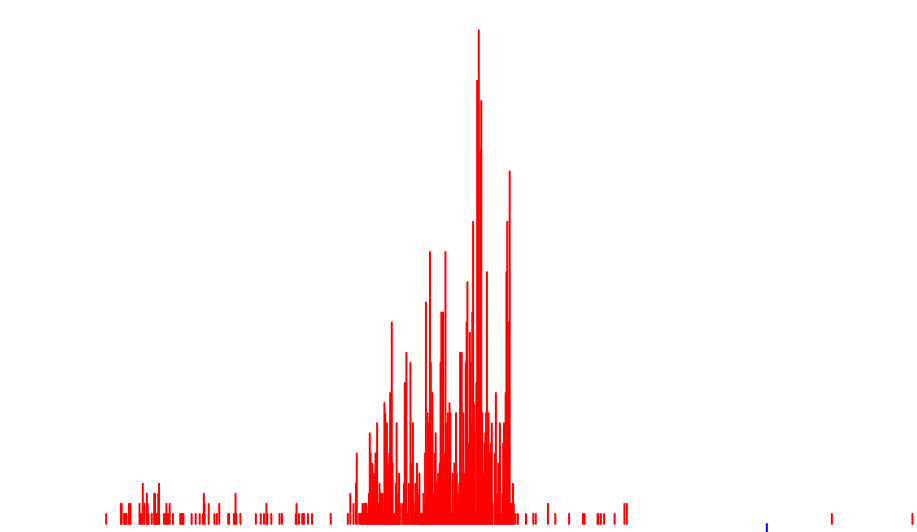
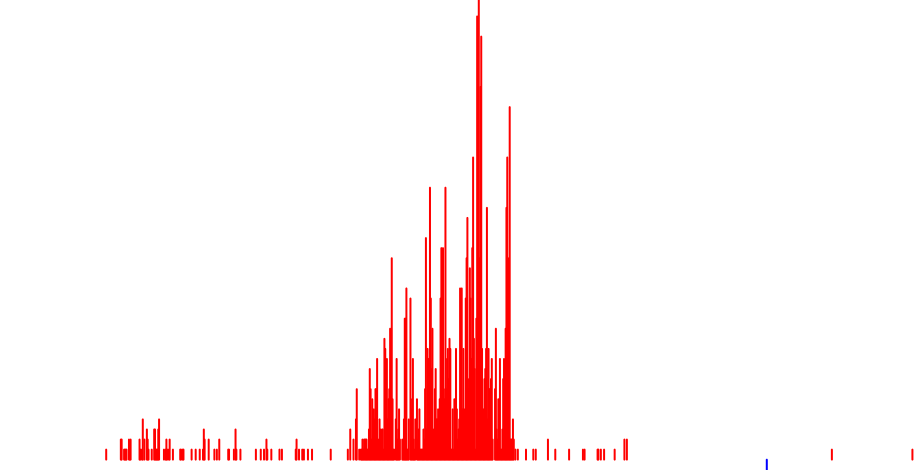
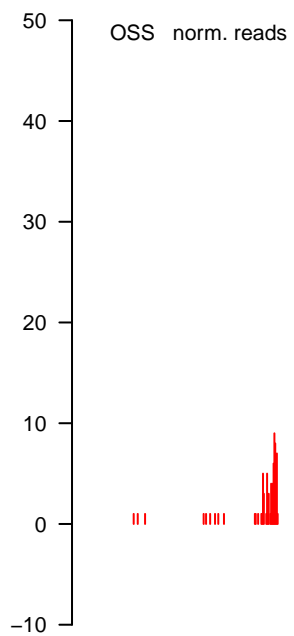
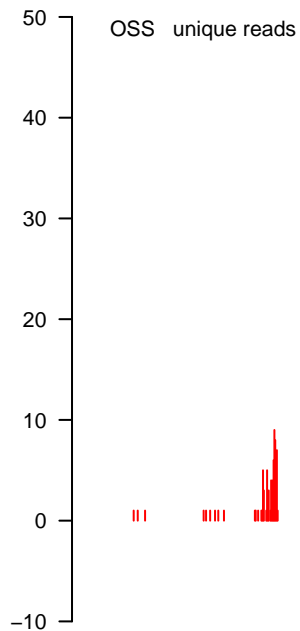


OSS norm. reads



pAbp 2R + 14027583 14034635

roq chr 3L : 16365428 – 16371750 –

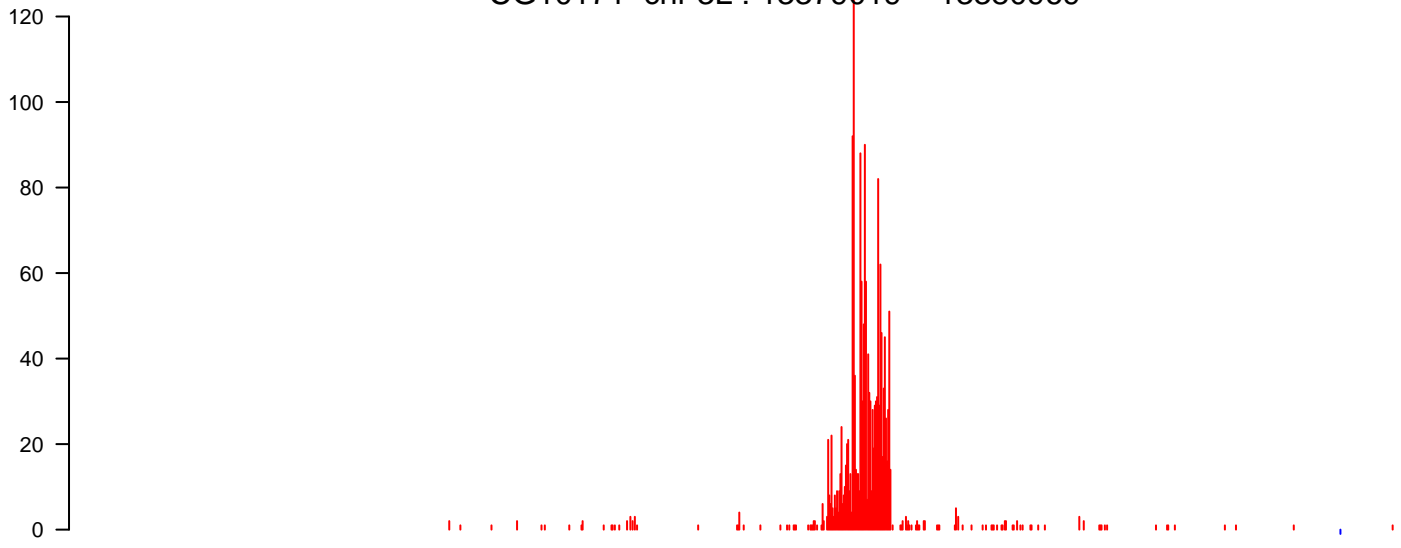


roq 3L – 16365428 16371750

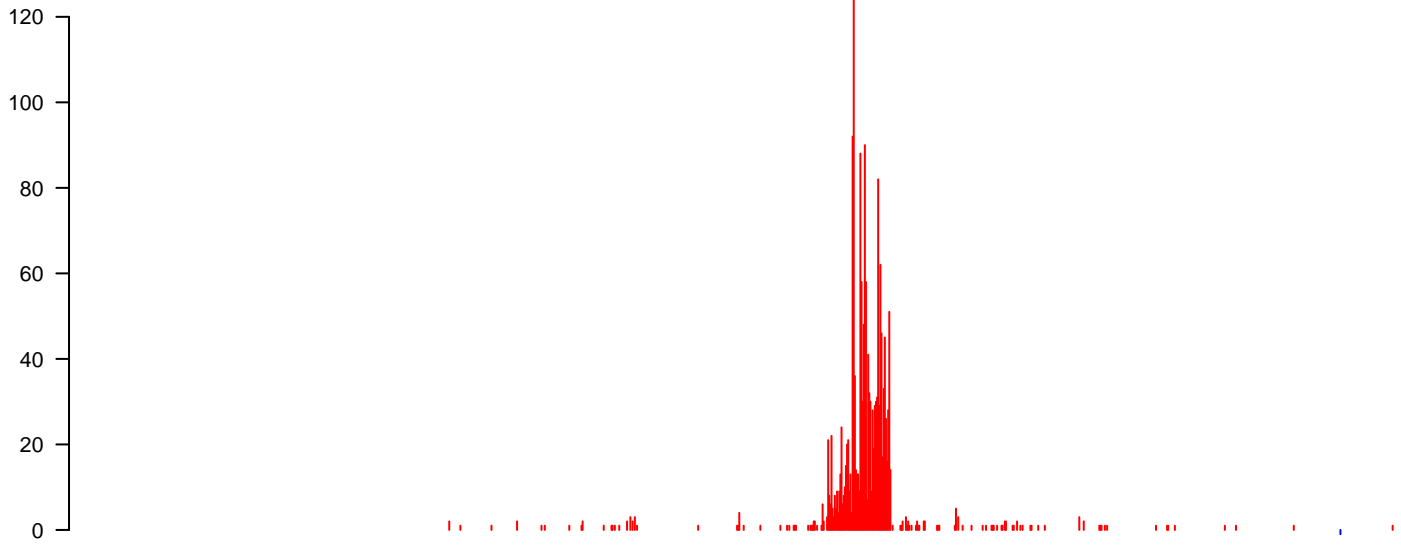


OSS unique reads

CG10171 chr 3L : 13379019 – 13380969 –

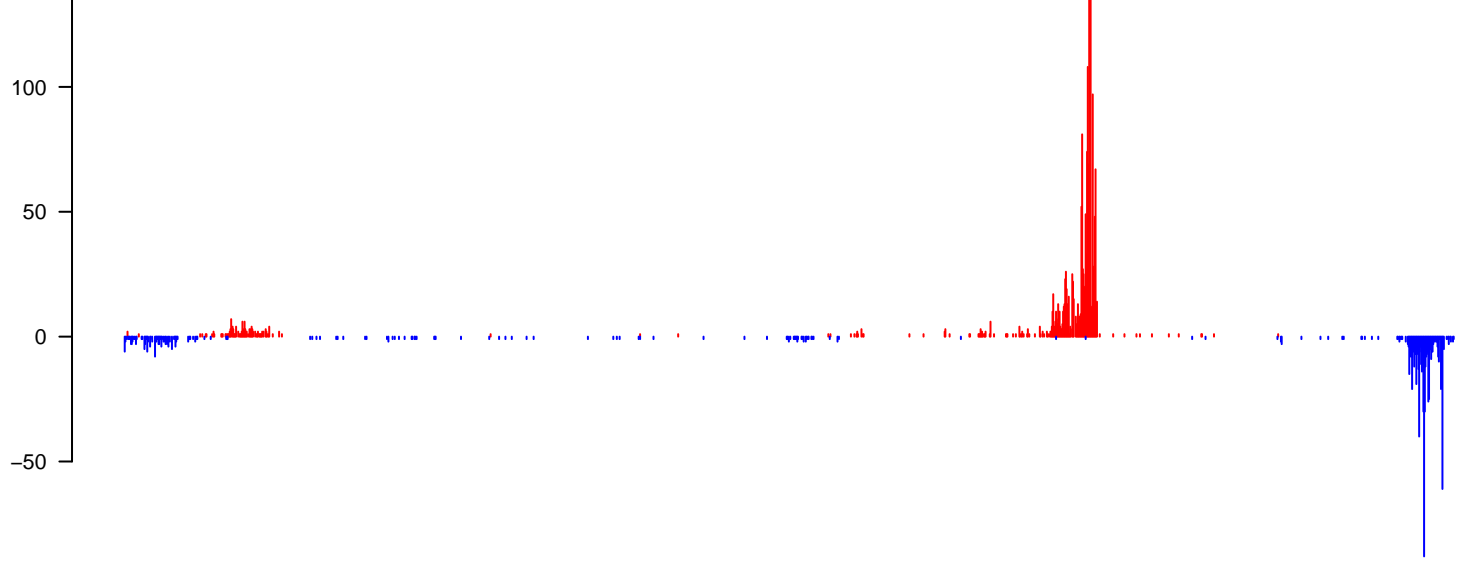


OSS norm. reads

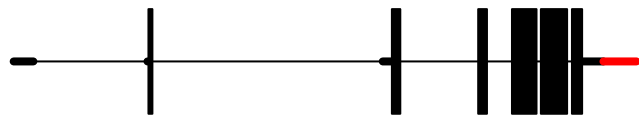
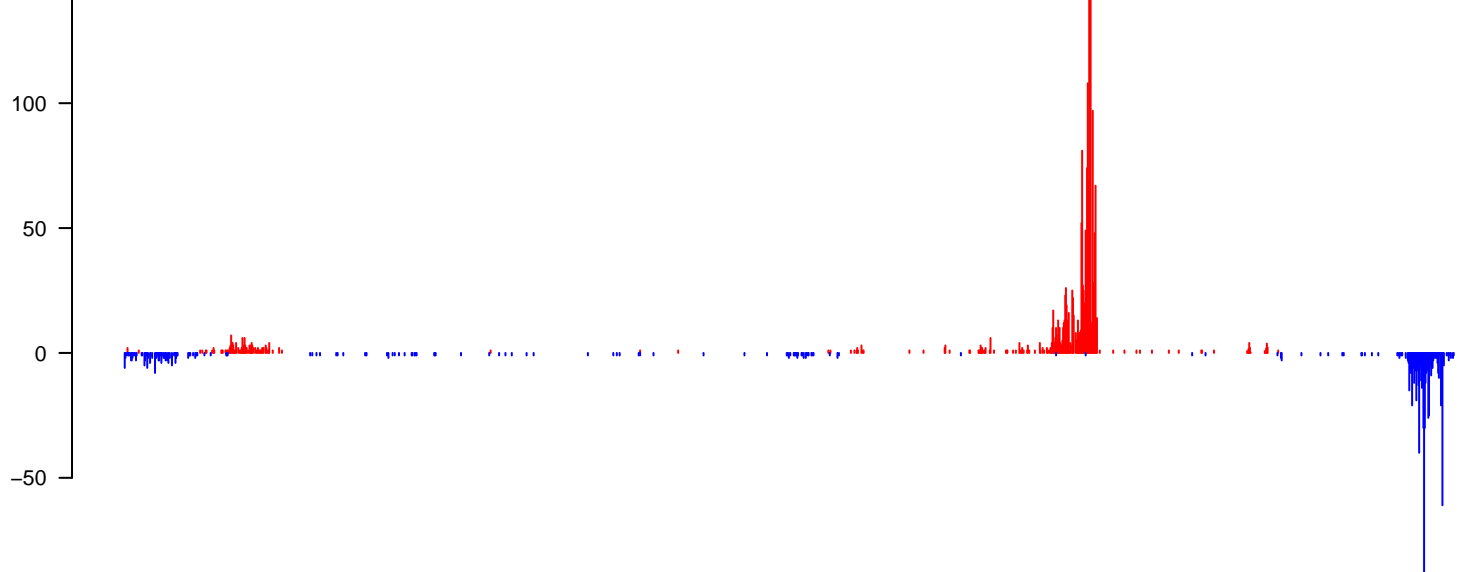


OSS unique reads

CG6330 chr 3R : 22775375 – 22784209 –



OSS norm. reads

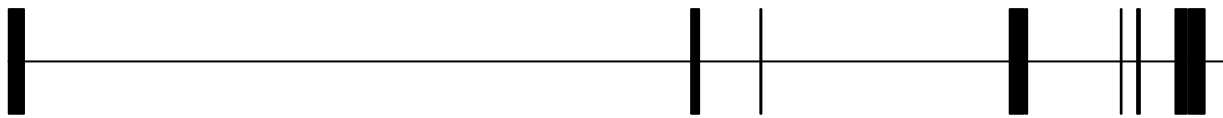
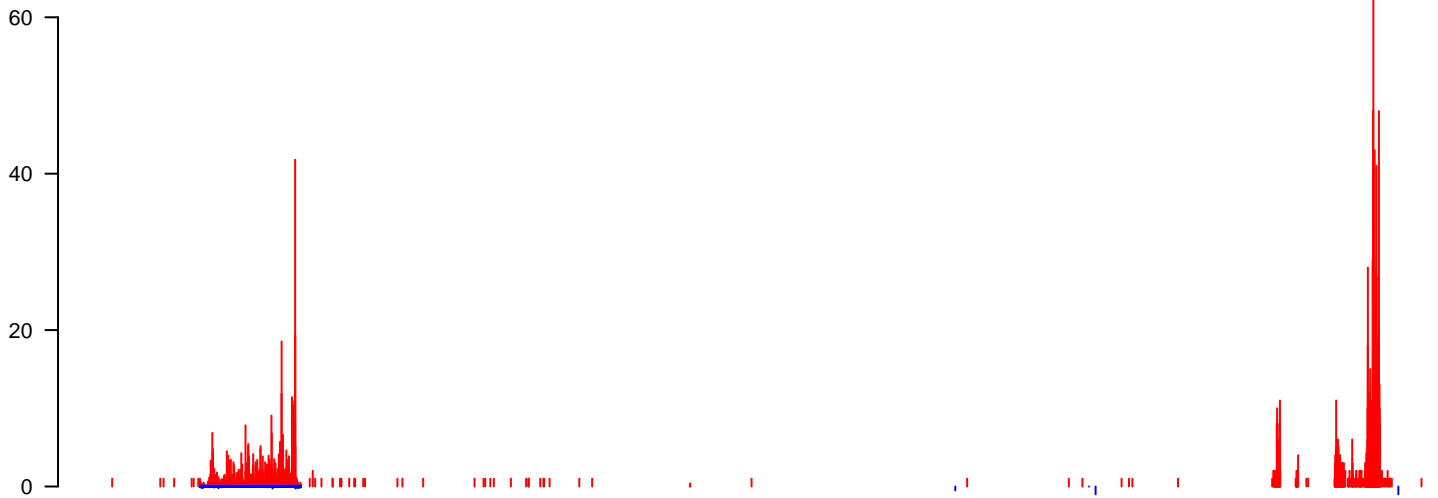


OSS unique reads

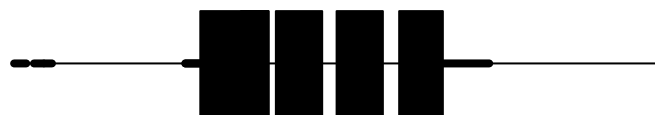
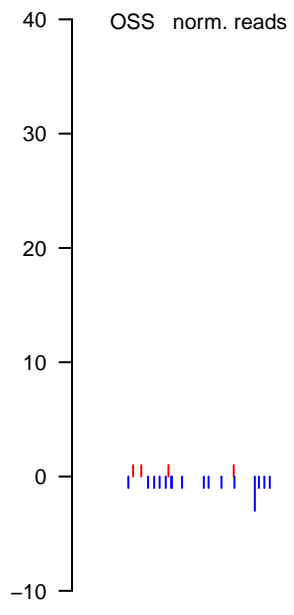
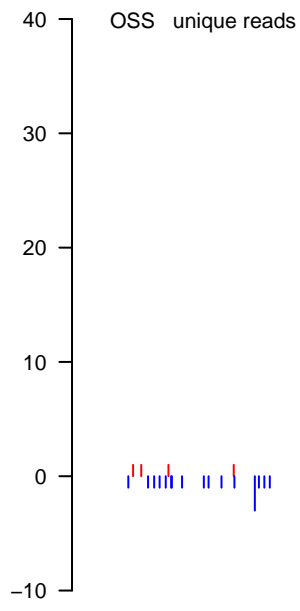
Eip75B chr 3L : 17945063 – 18052698 –



OSS norm. reads

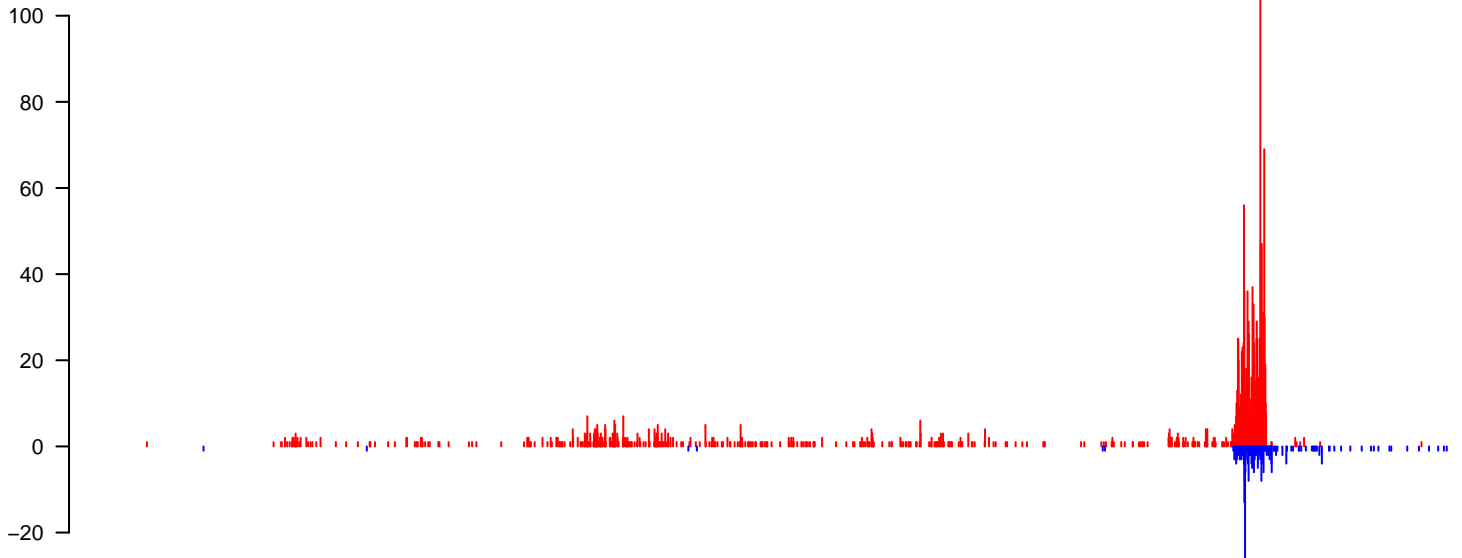


CG11265 chr X : 8454668 – 8464193 +

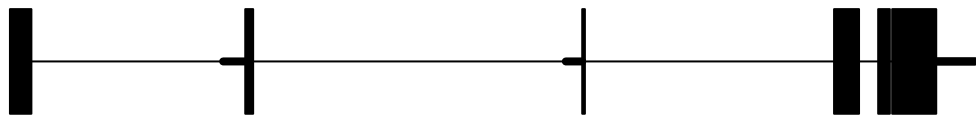
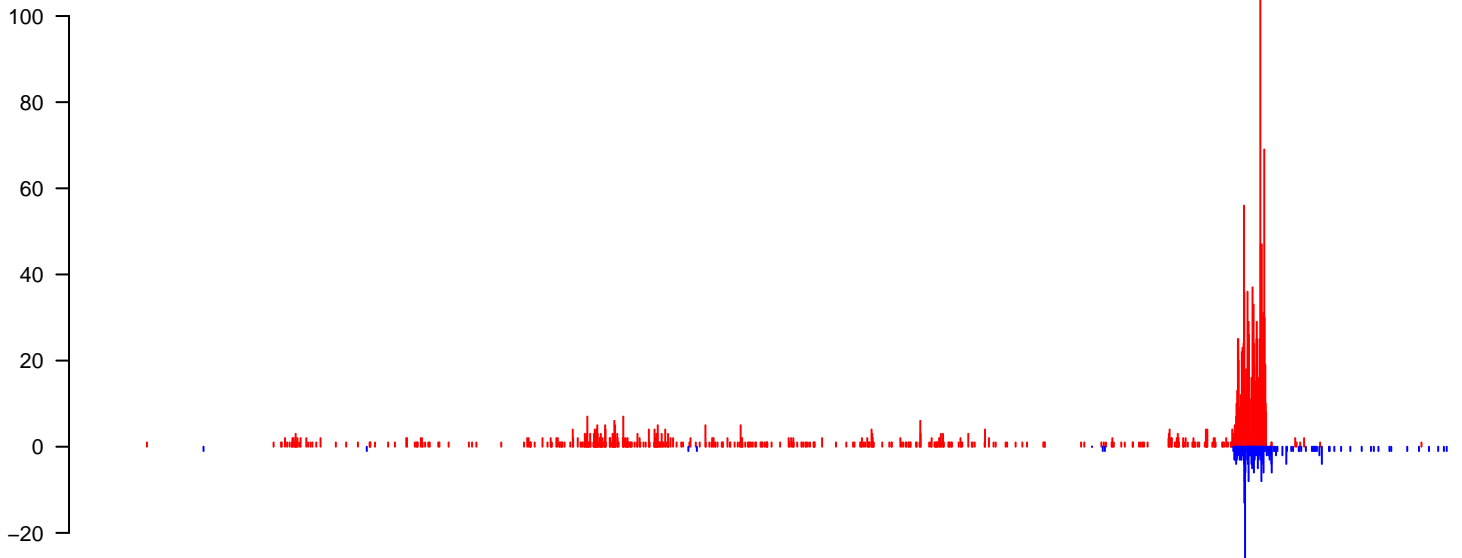


OSS unique reads

kay chr 3R : 25592707 – 25620037 +



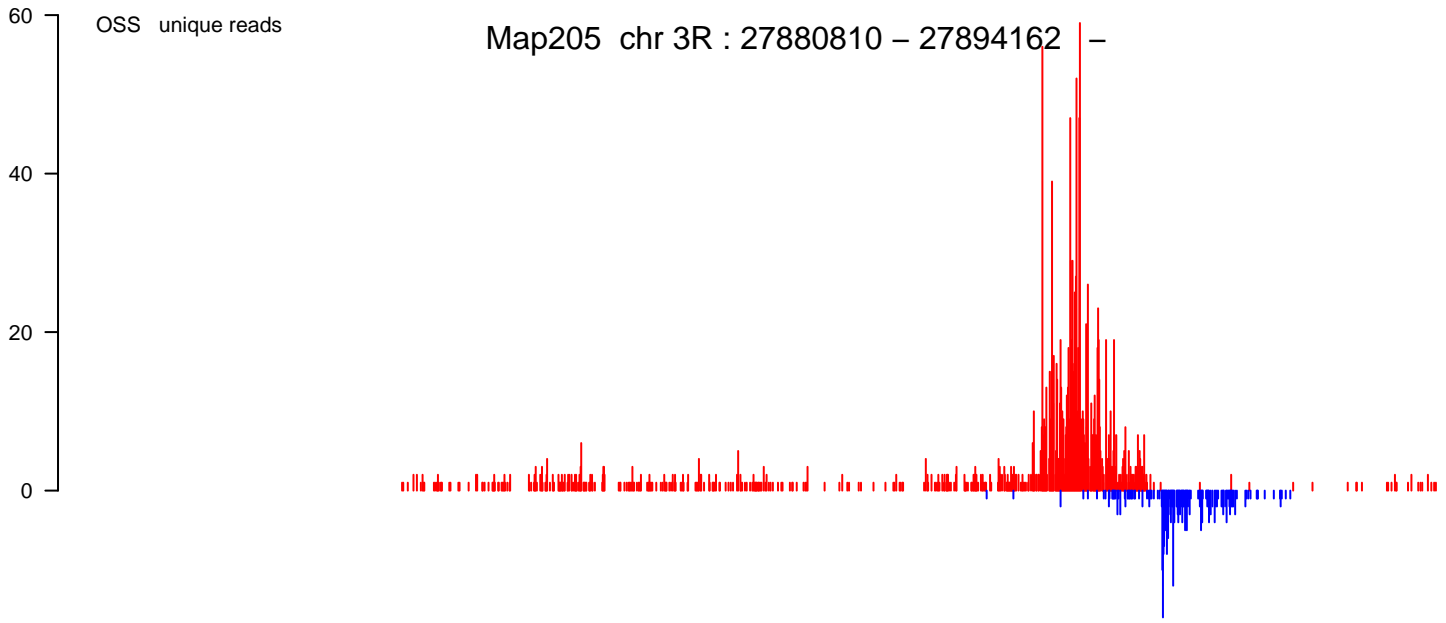
OSS norm. reads



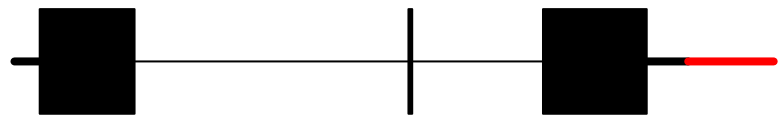
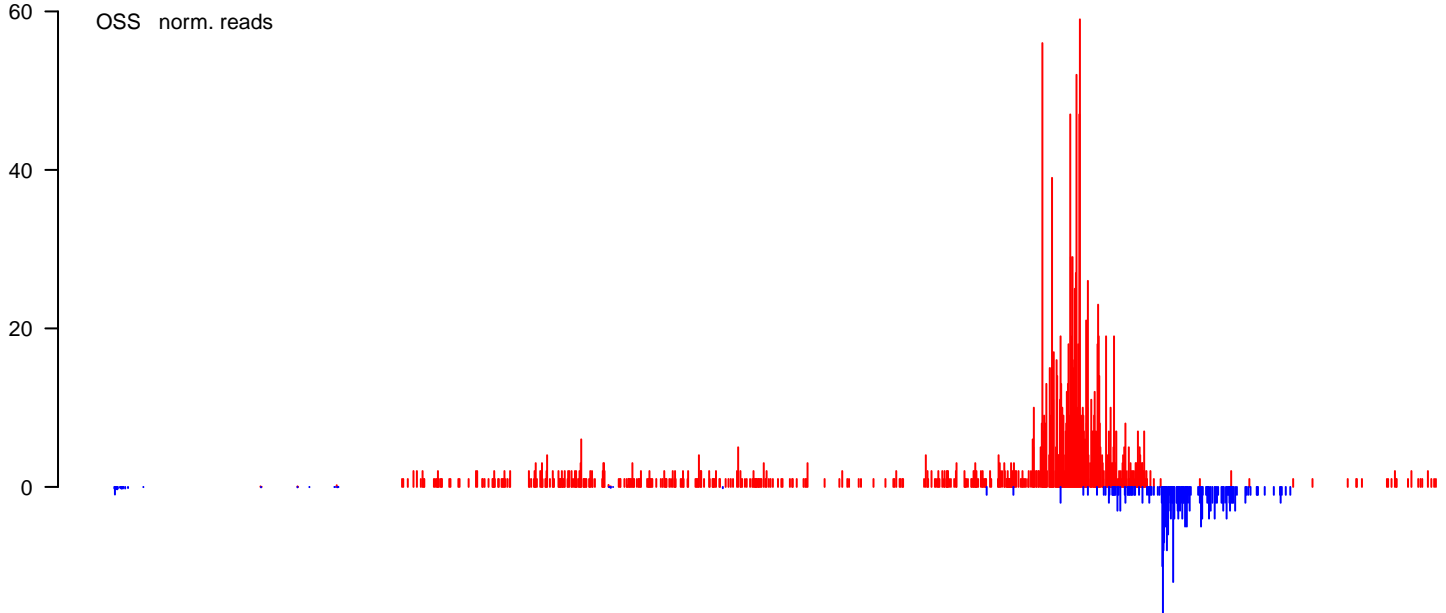
kay 3R + 25592707 25620037

OSS unique reads

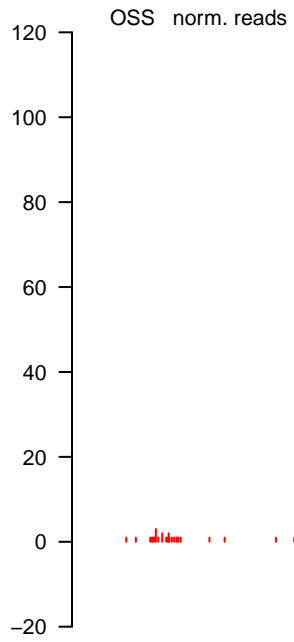
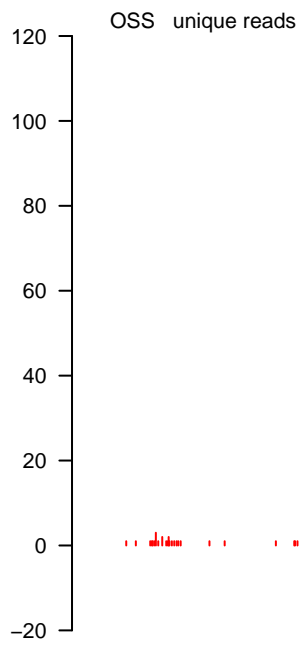
Map205 chr 3R : 27880810 – 27894162



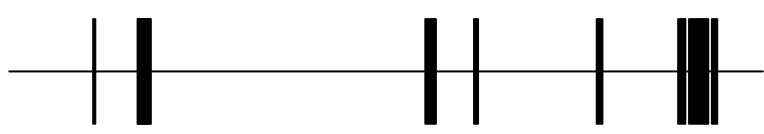
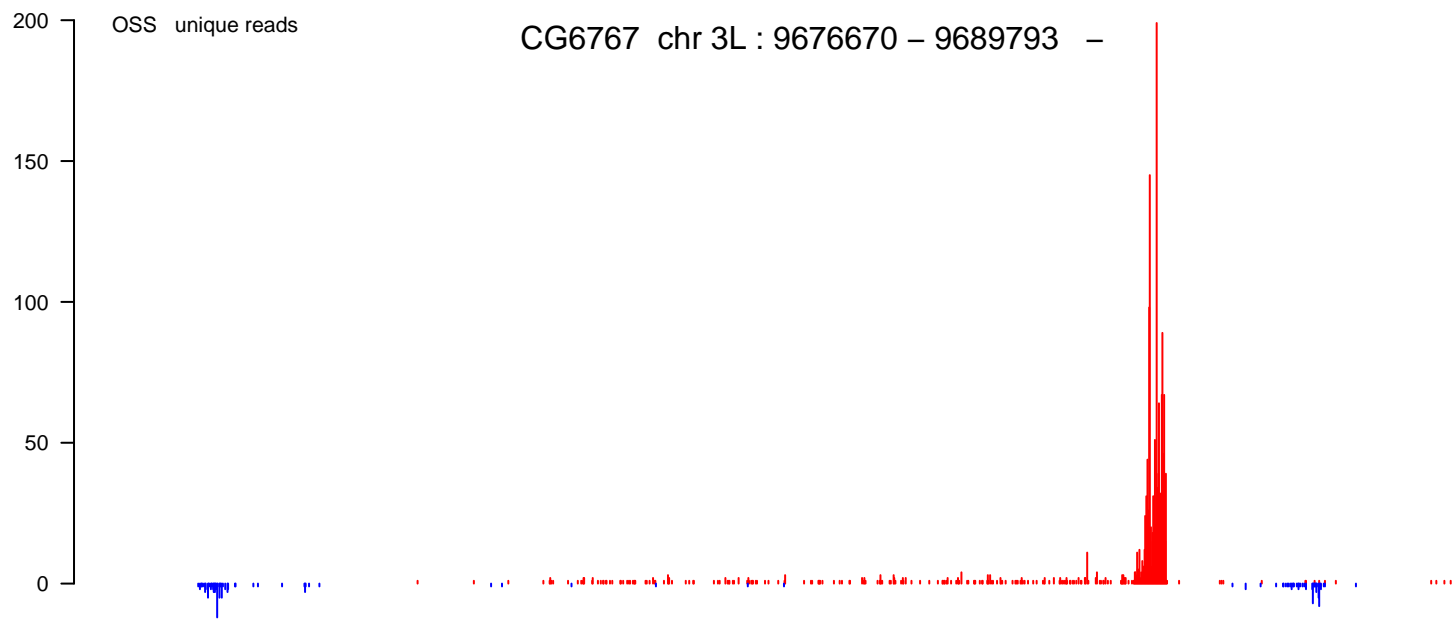
OSS norm. reads



Ir chr 3R : 19004801 – 19011396 +



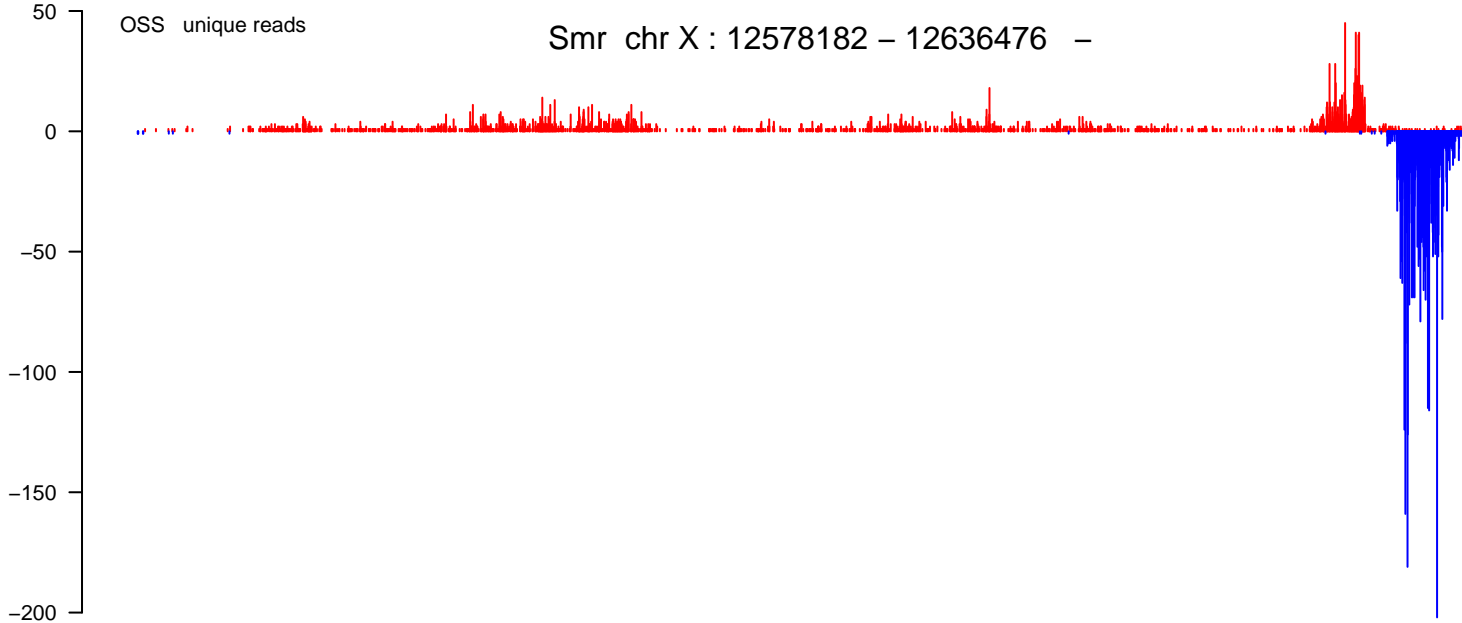
Ir 3R + 19004801 19011396



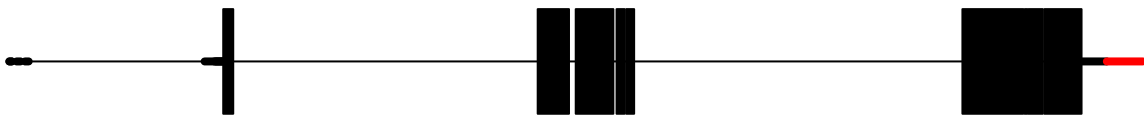
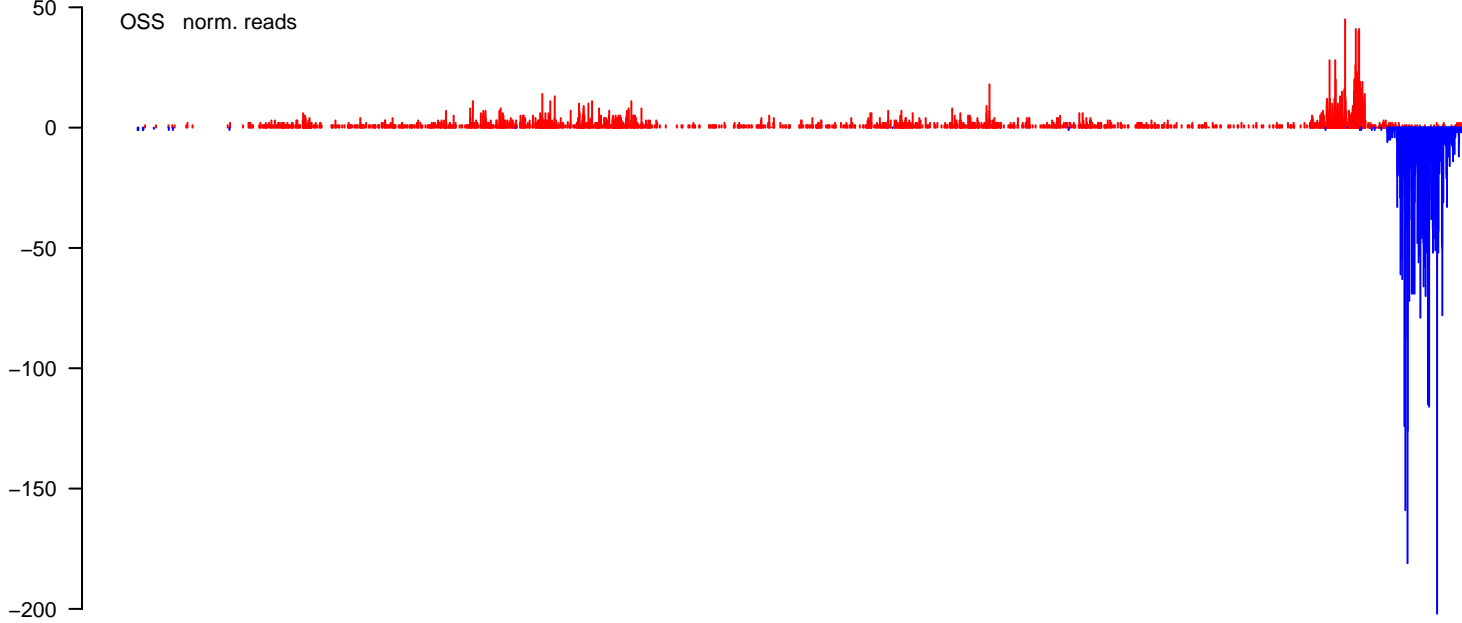


Smr chr X : 12578182 – 12636476 –

OSS unique reads

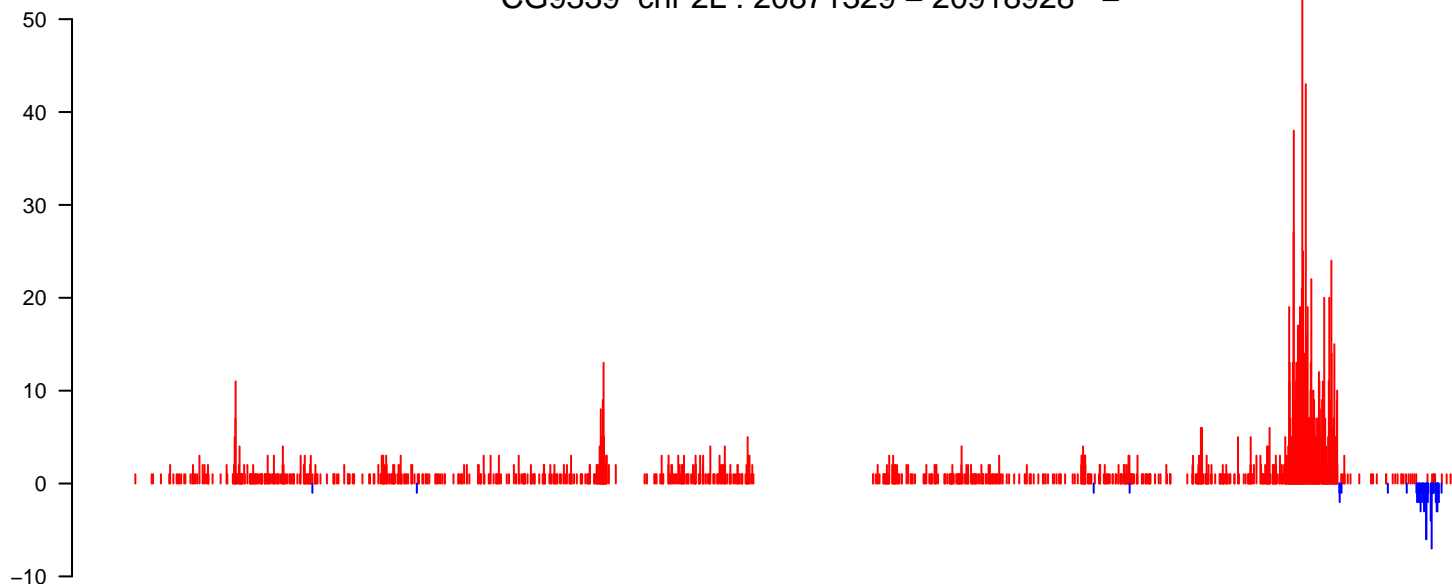


OSS norm. reads

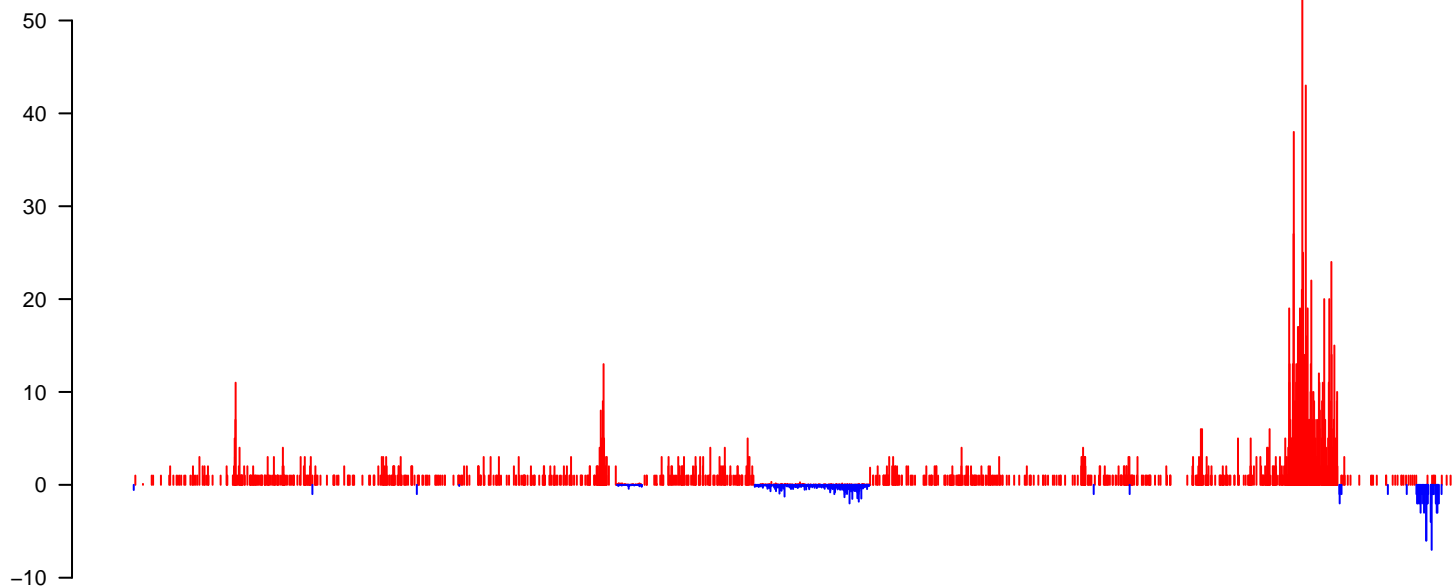


OSS unique reads

CG9339 chr 2L : 20871329 – 20918928 –

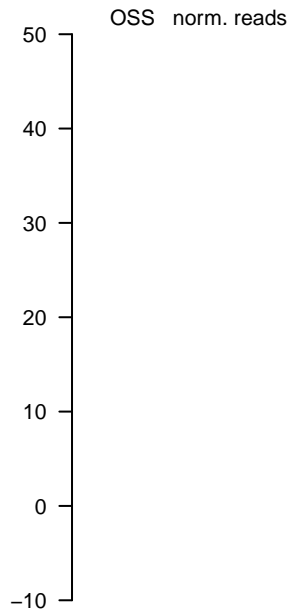
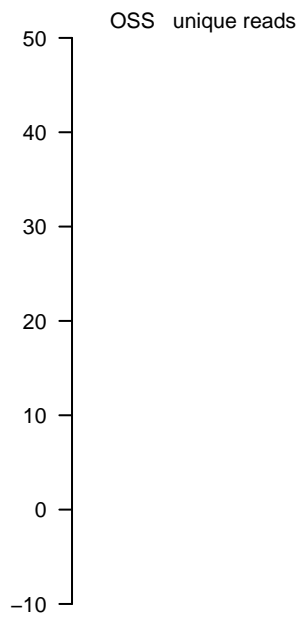


OSS norm. reads



CG9339 2L – 20871329 20918928

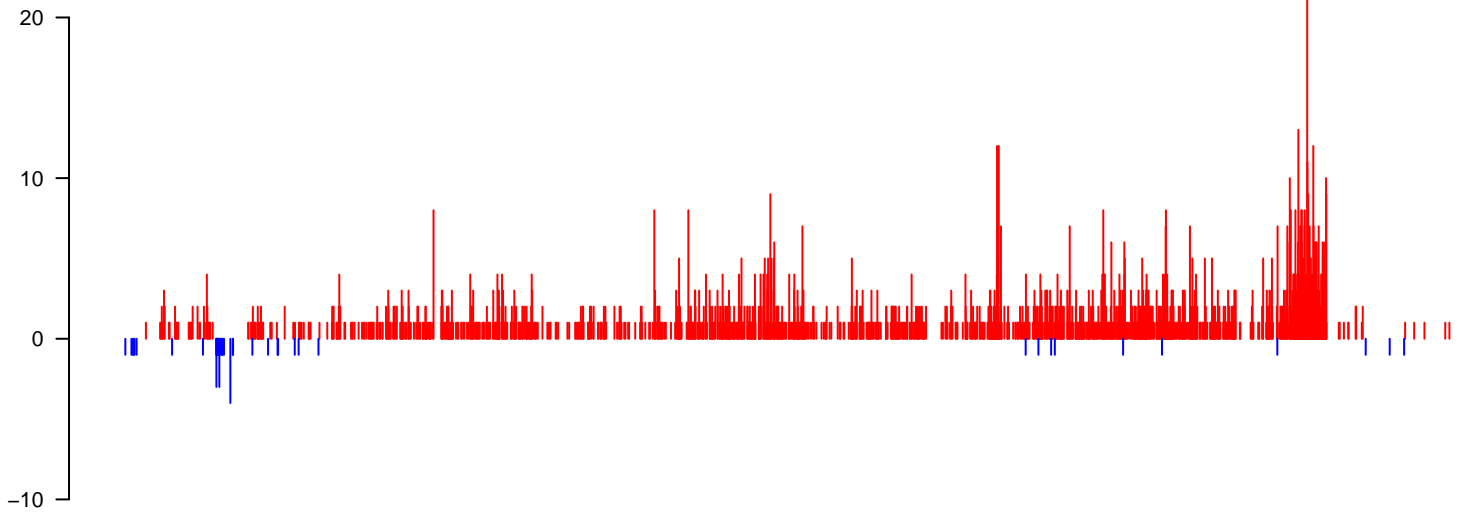
CG3523 chr 2L : 3056615 – 3068184 +



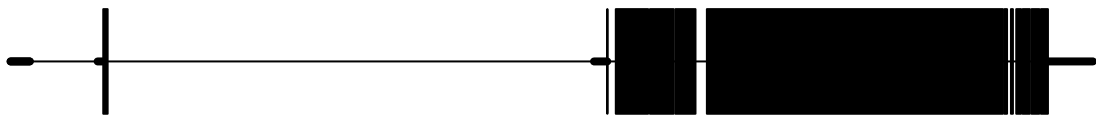
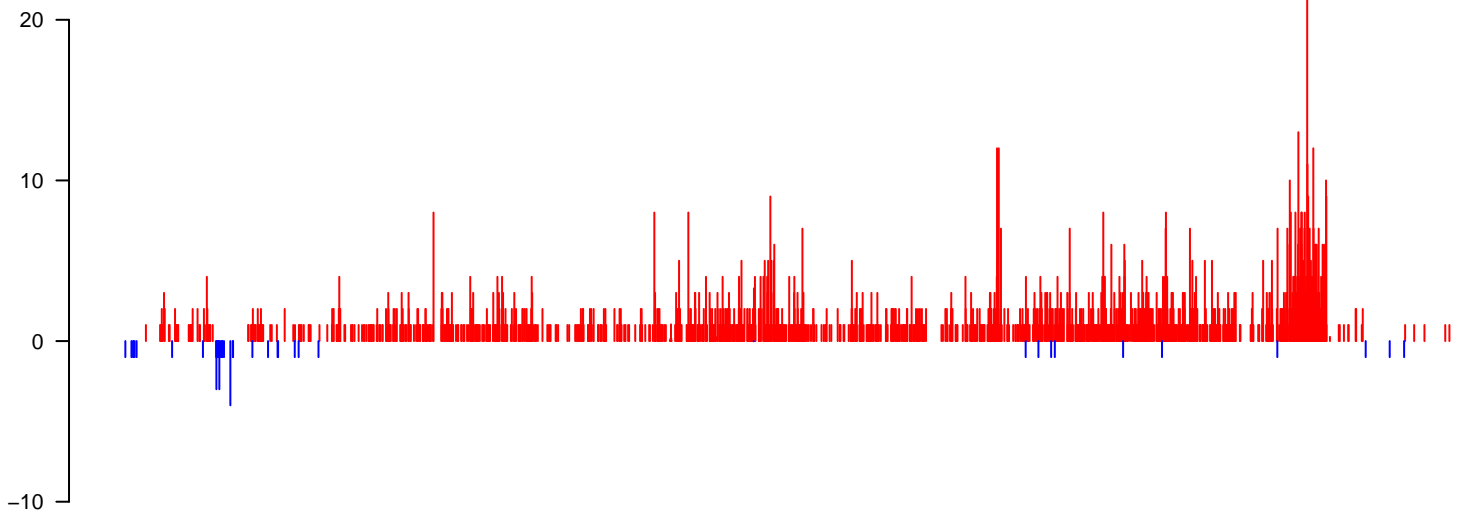
CG3523 2L + 3056615 3068184

OSS unique reads

spen chr 2L : 159034 – 203279 +



OSS norm. reads



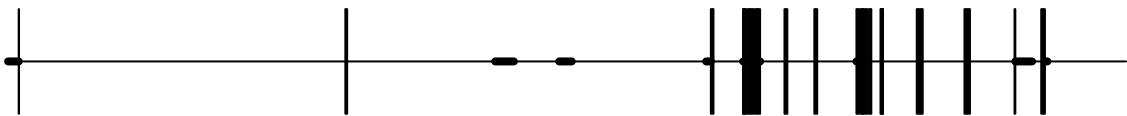
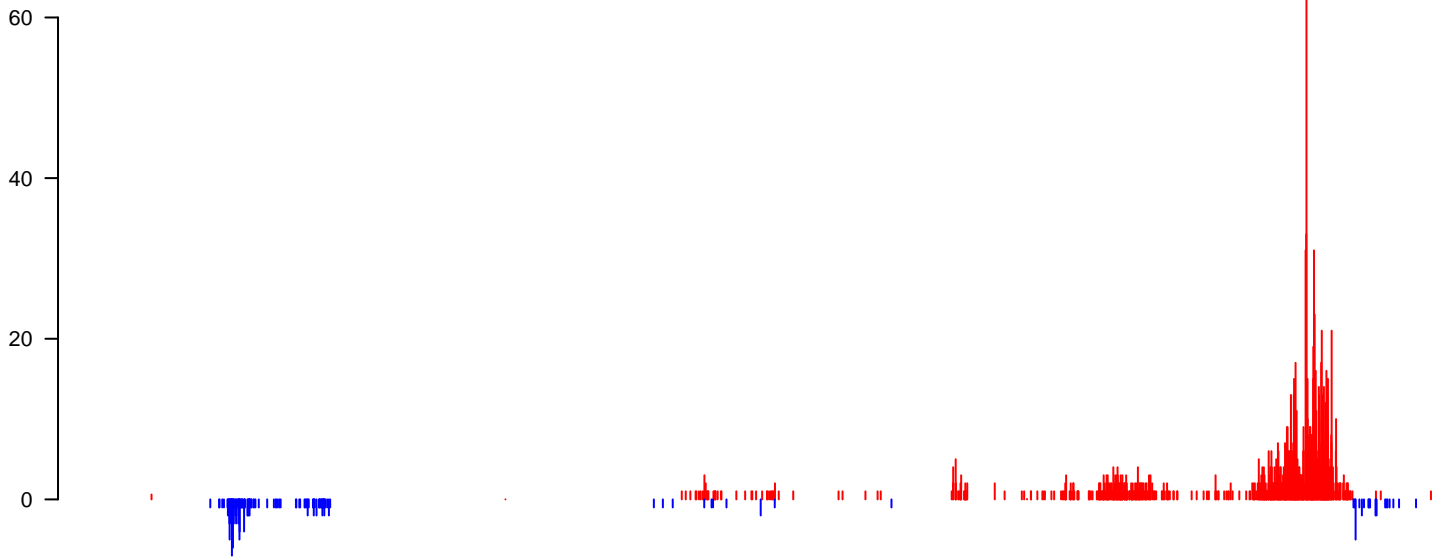
spen 2L + 159034 203279

OSS unique reads

CG17838 chr 3R : 16582451 – 16635709 +

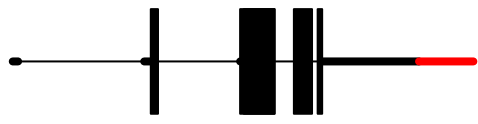
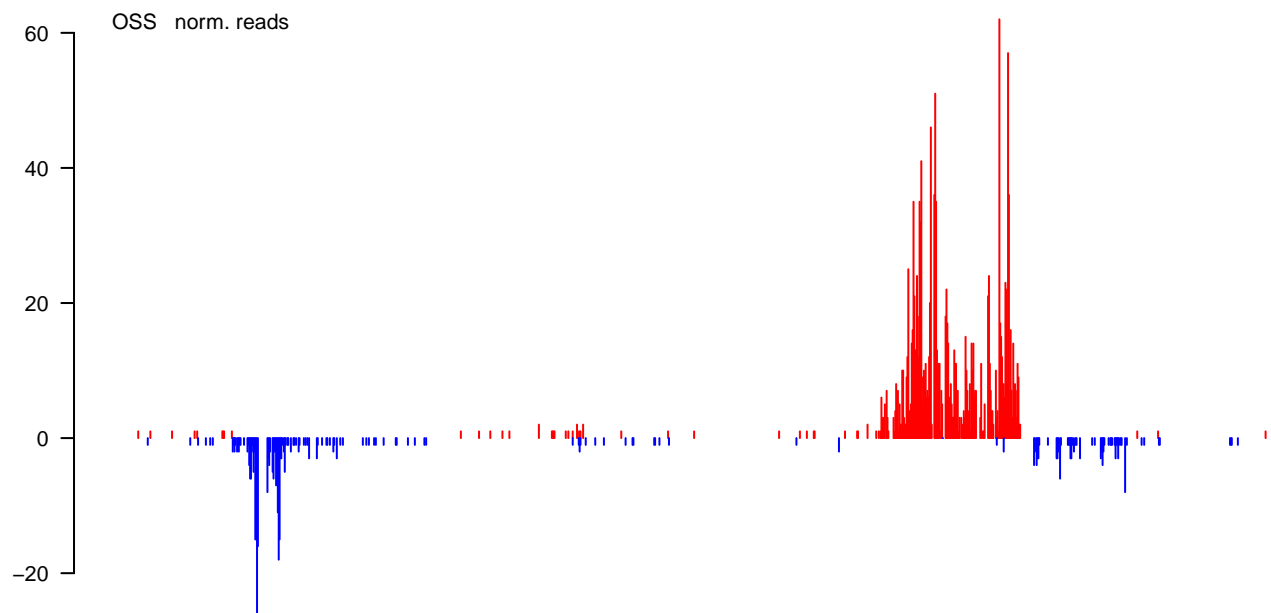
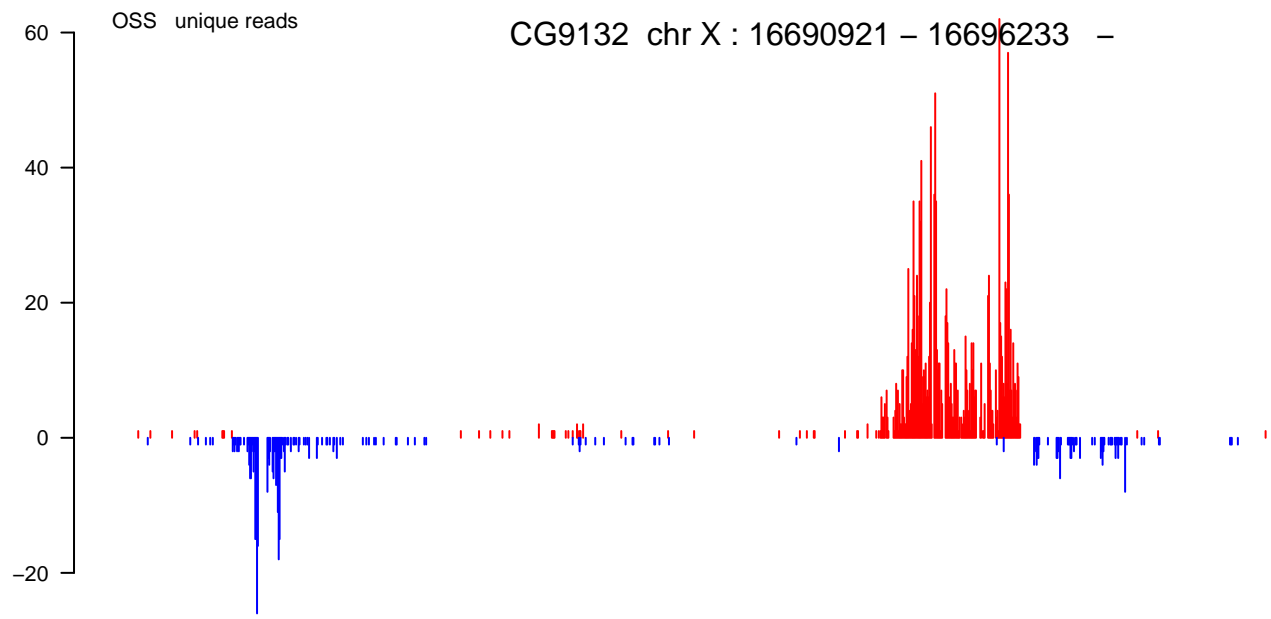


OSS norm. reads



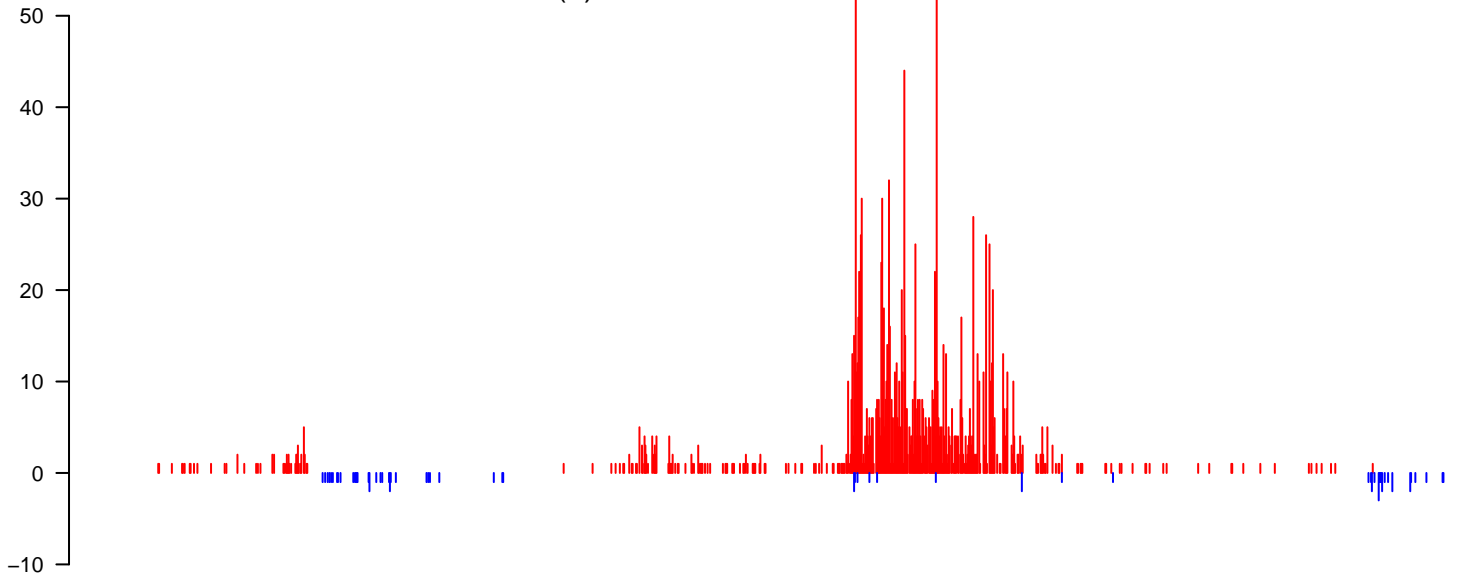
CG17838 3R + 16582451 16635709

CG9132 chr X : 16690921 – 16696233 –

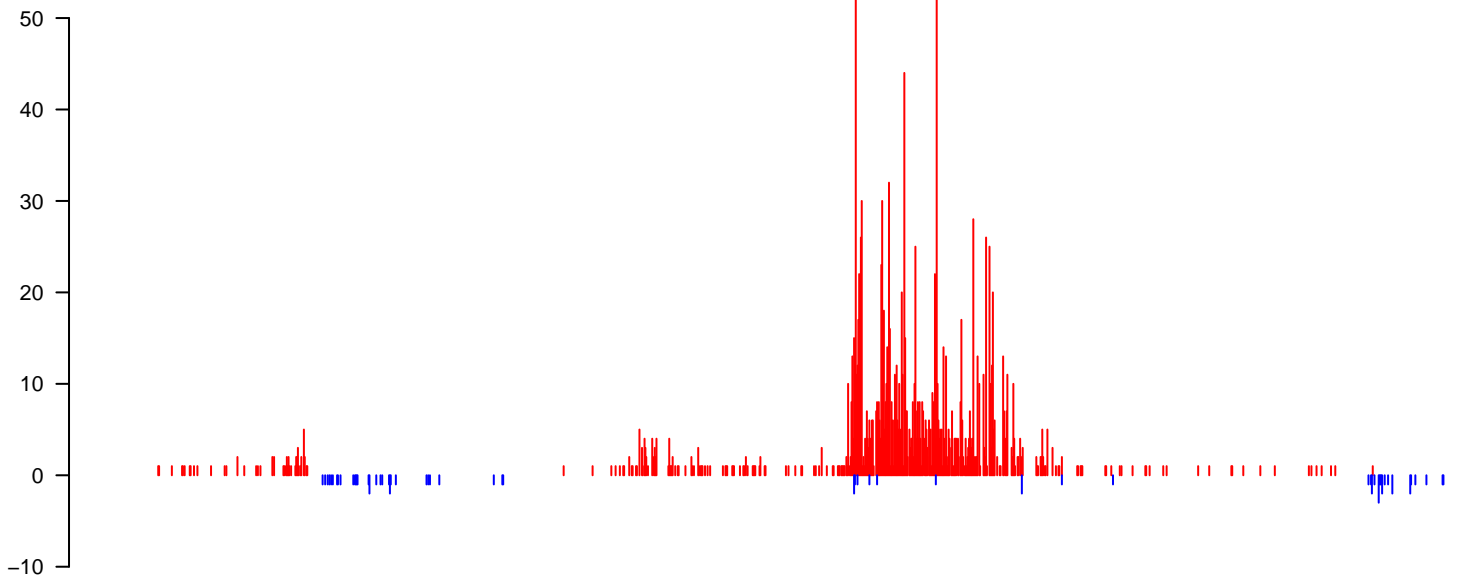


OSS unique reads

fs(1)Yb chr X : 2614501 – 2620092 +



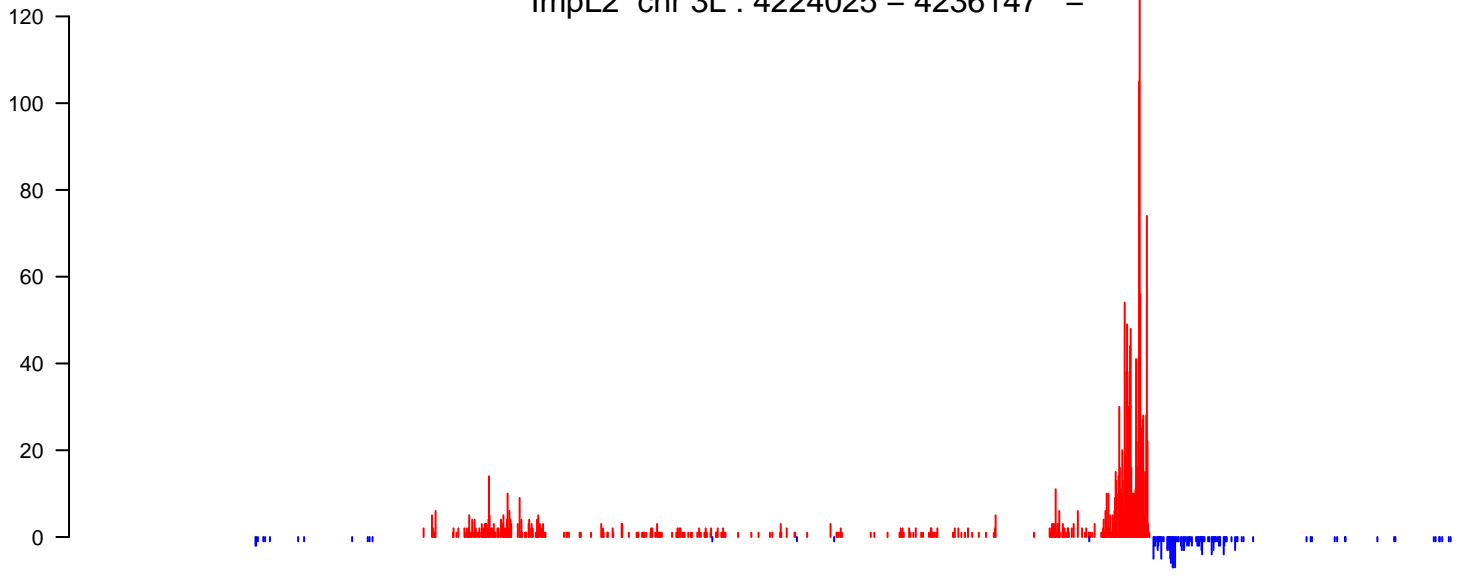
OSS norm. reads



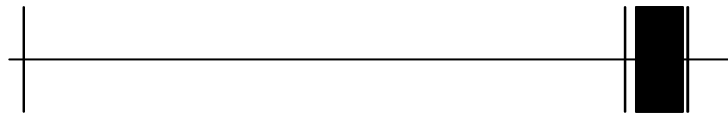
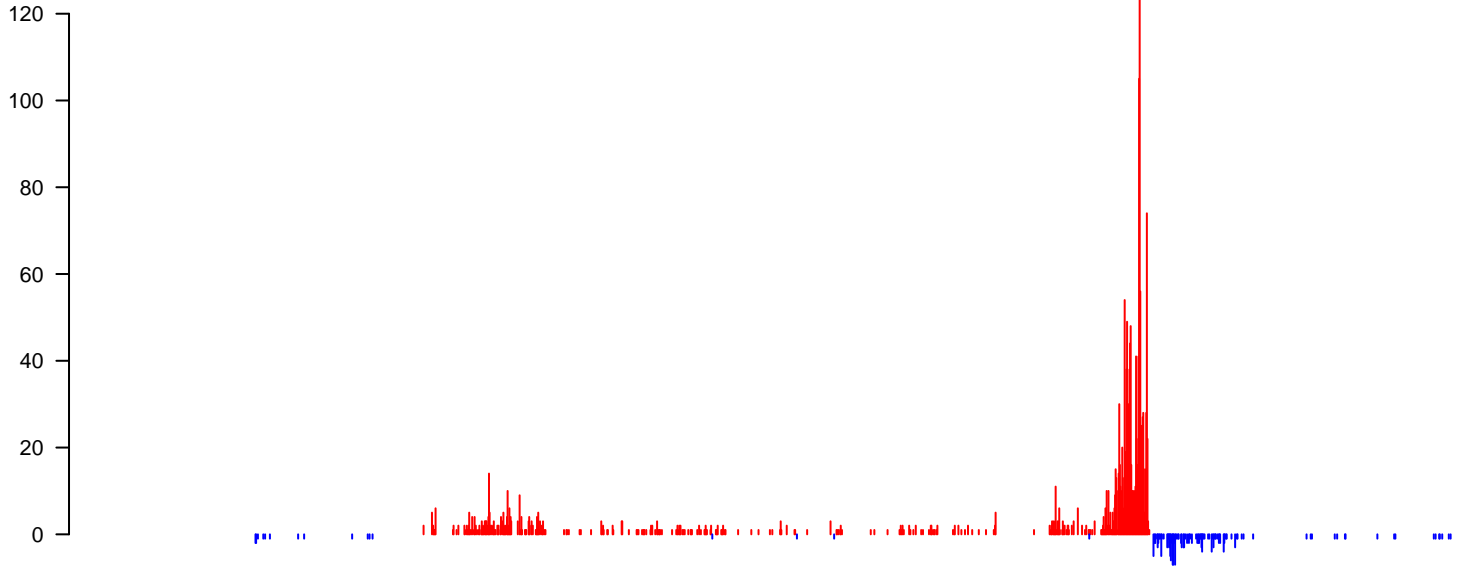
fs(1)Yb X + 2614501 2620092

ImpL2 chr 3L : 4224025 – 4236147 –

OSS unique reads



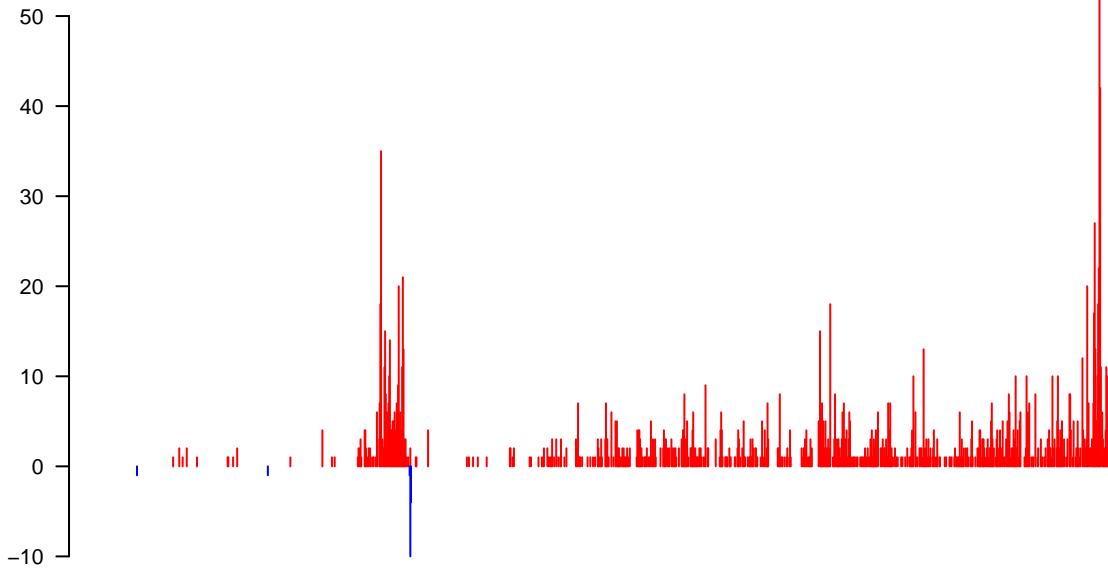
OSS norm. reads



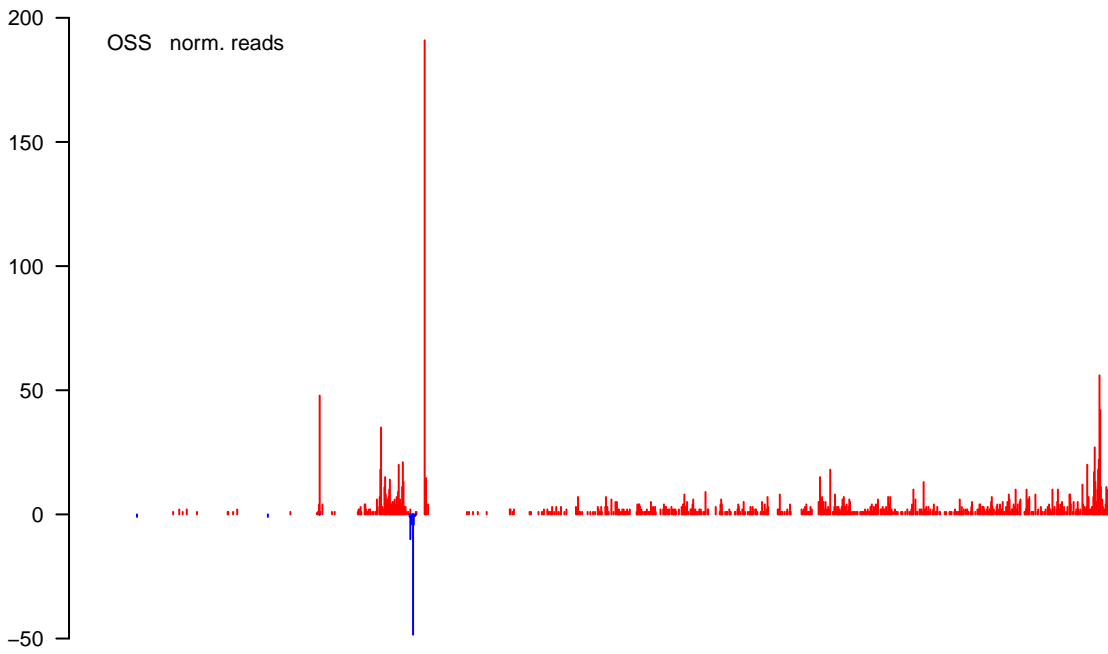


OSS unique reads

tud chr 2R : 17070937 – 17080417 +

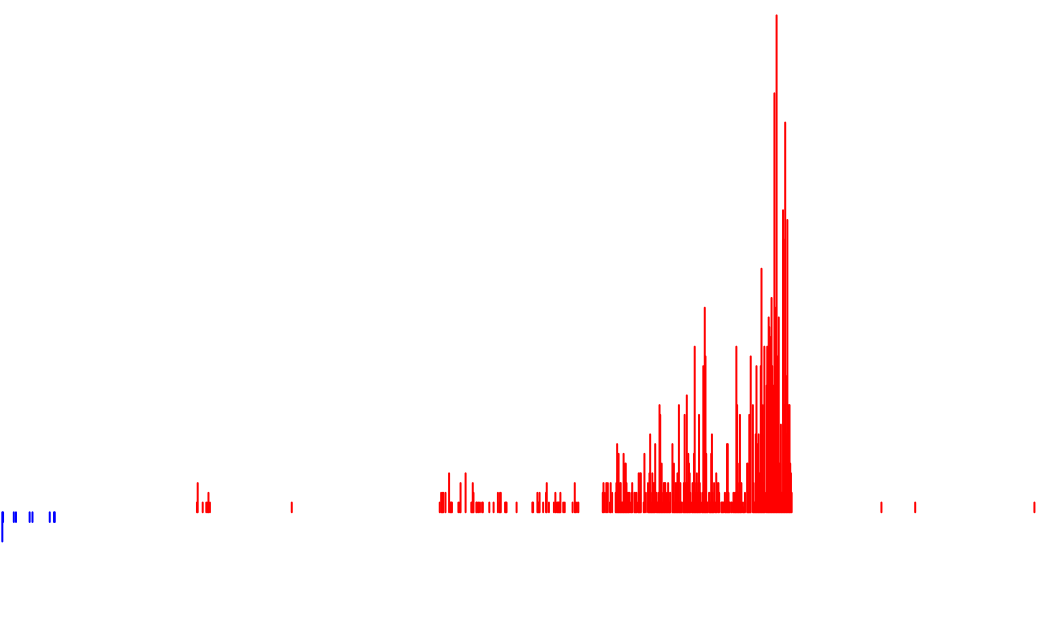
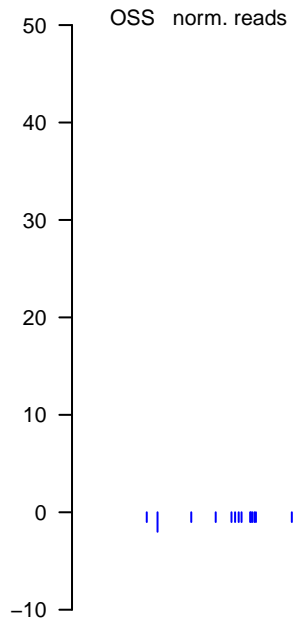
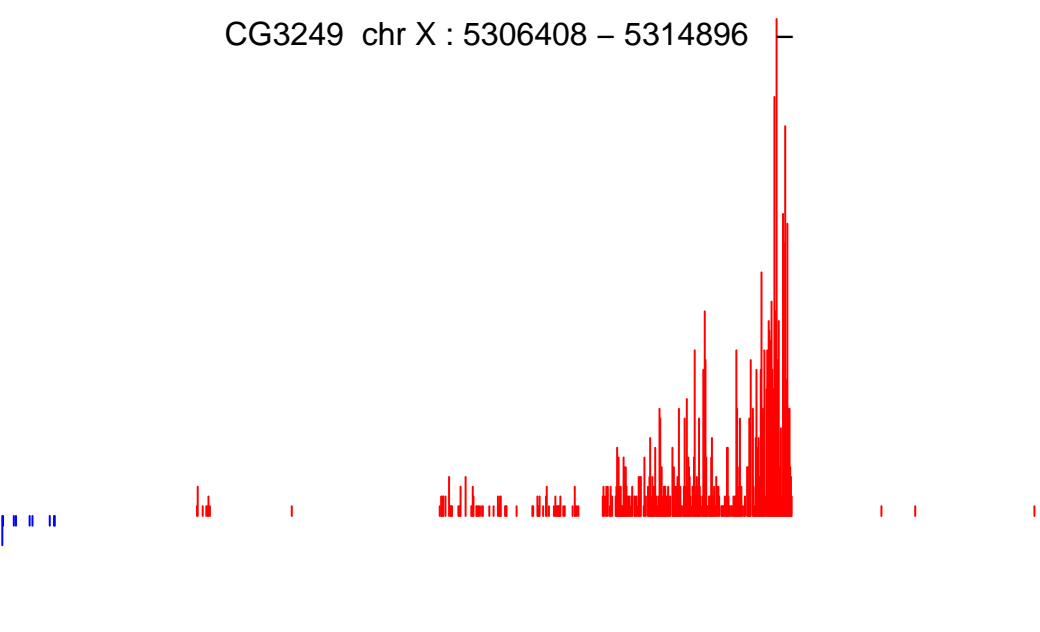
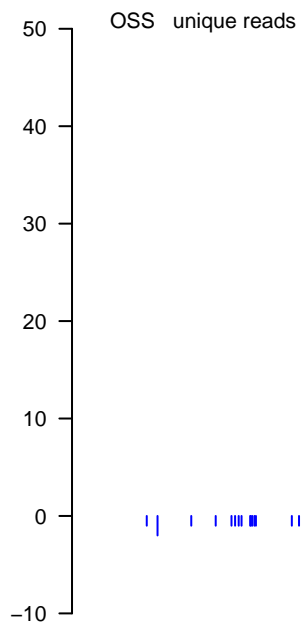


OSS norm. reads

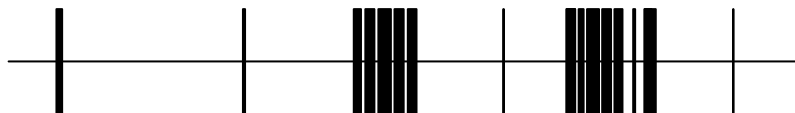
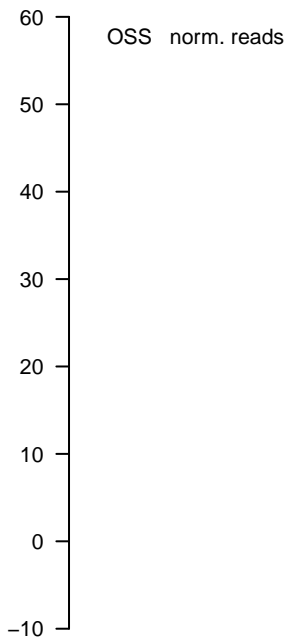
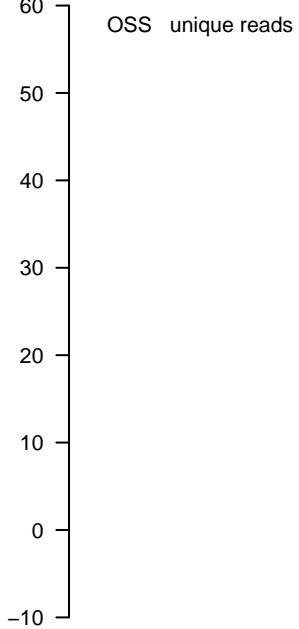


tud 2R + 17070937 17080417

CG3249 chr X : 5306408 – 5314896

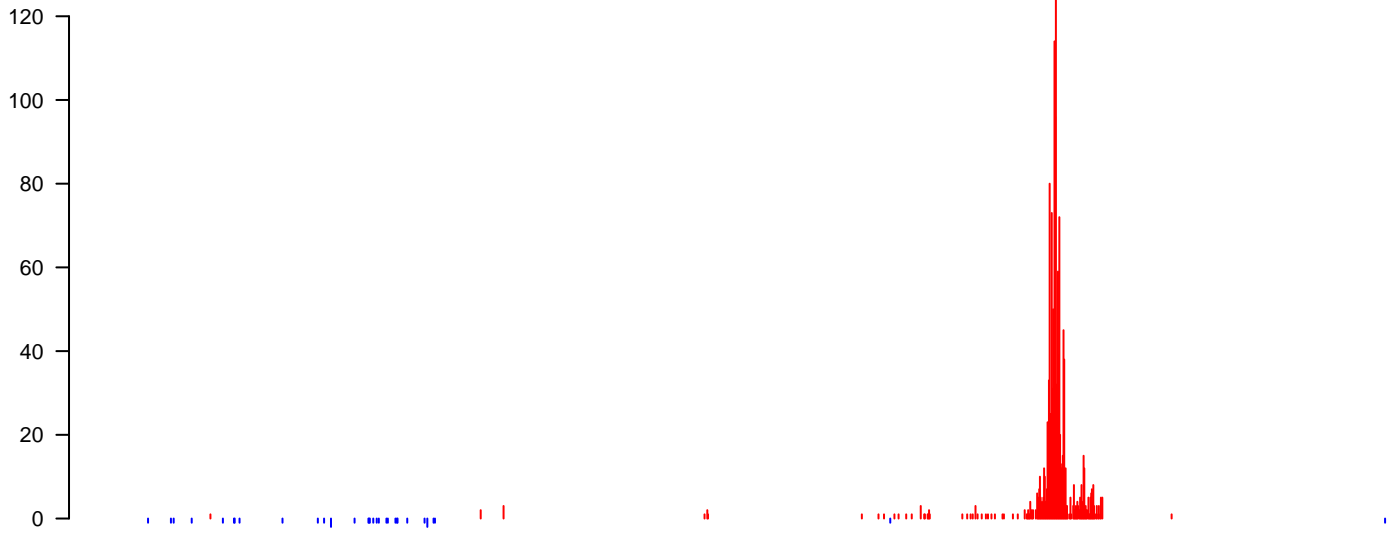


Fas1 chr 3R : 12450948 – 12465498 +

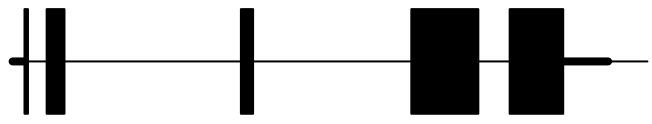
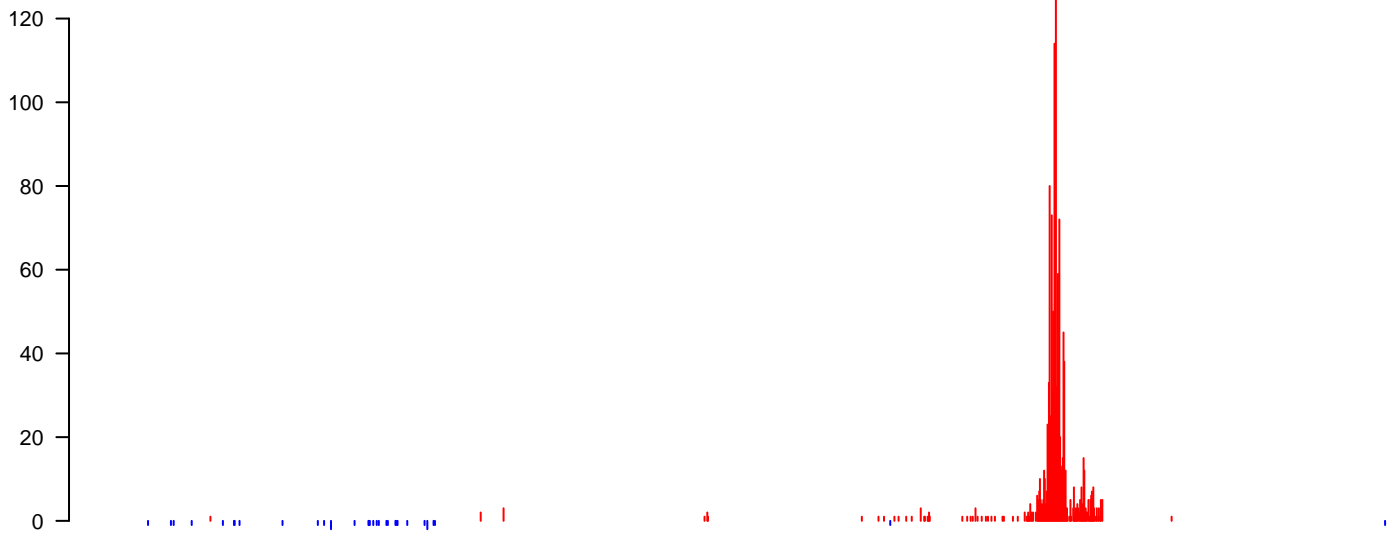


OSS unique reads

RhoGAP92B chr 3R : 15730861 – 15740022 +



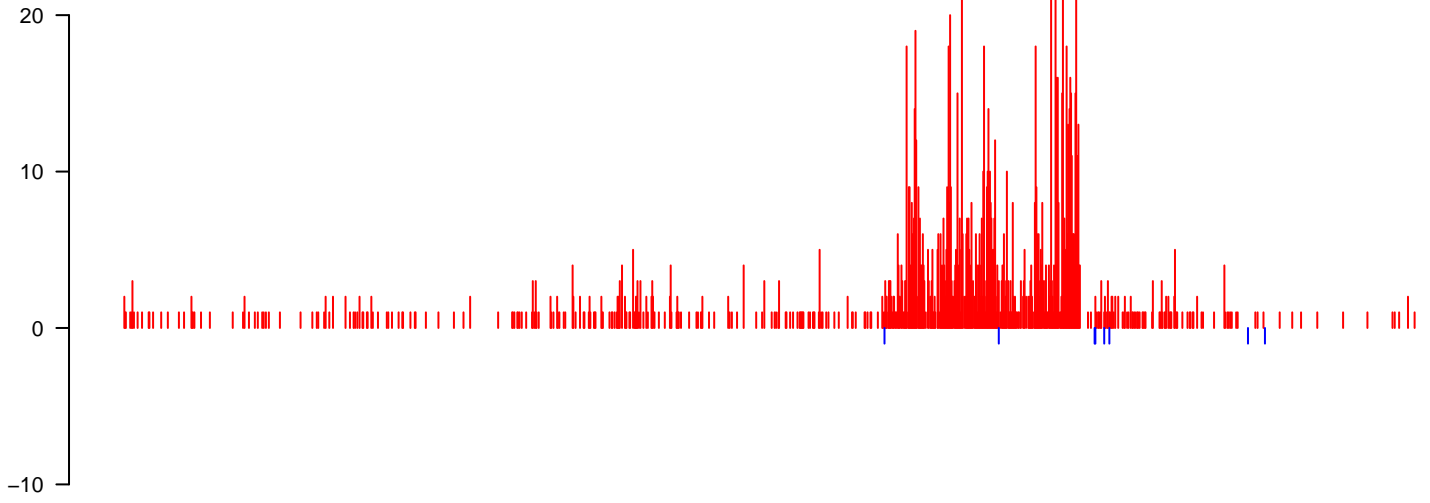
OSS norm. reads



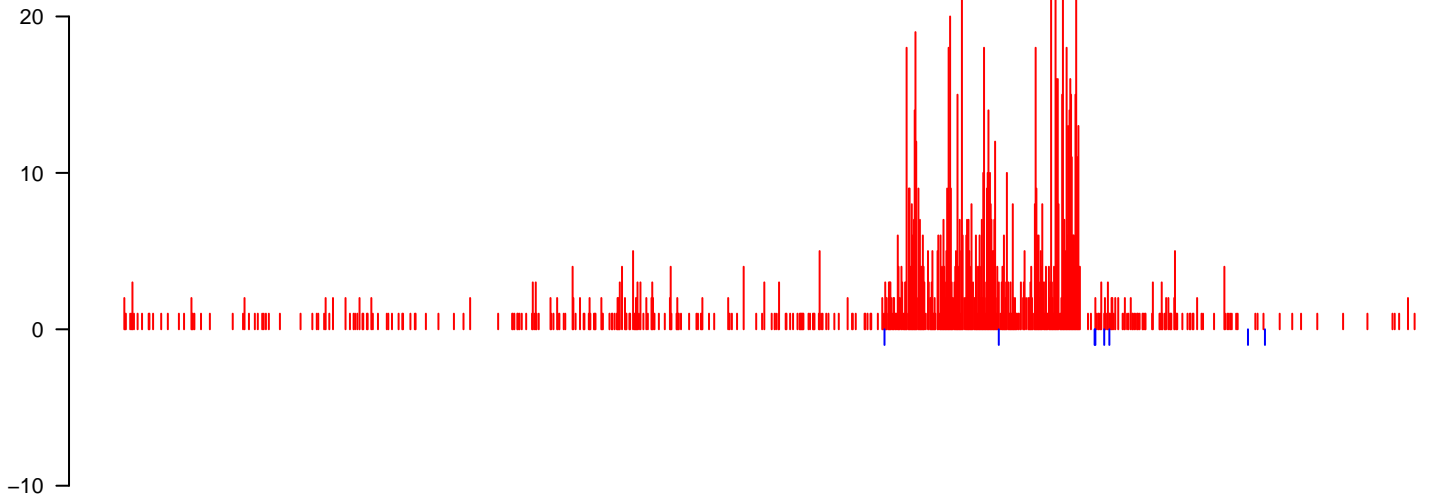
RhoGAP92B 3R + 15730861 15740022

OSS unique reads

CG6490 chr 3R : 22295795 – 22303805 –



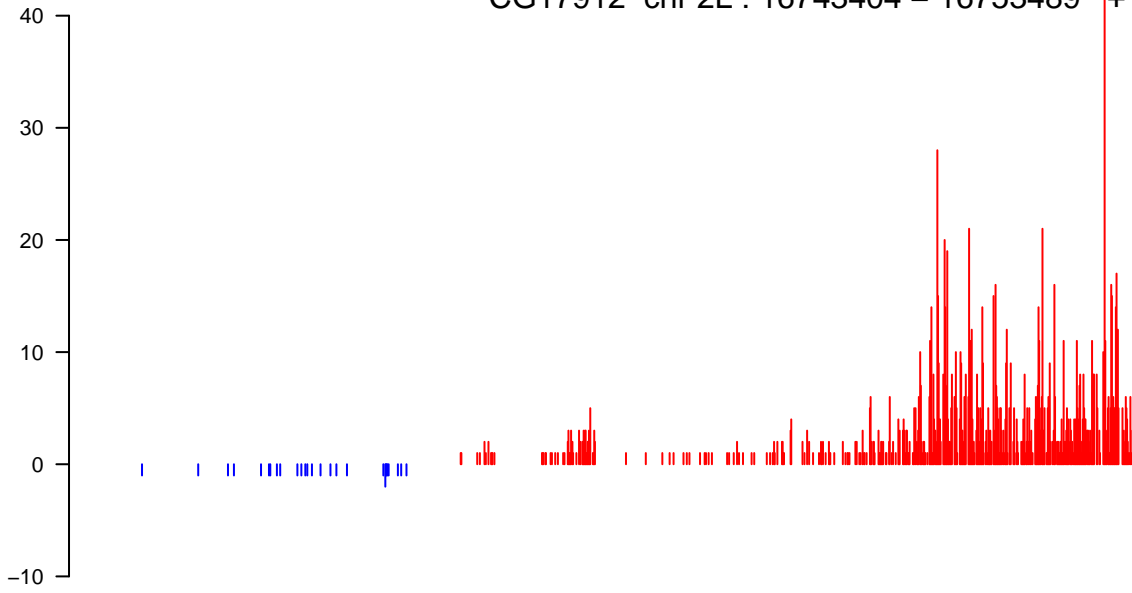
OSS norm. reads



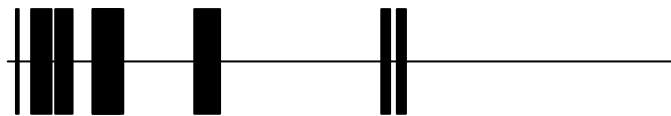
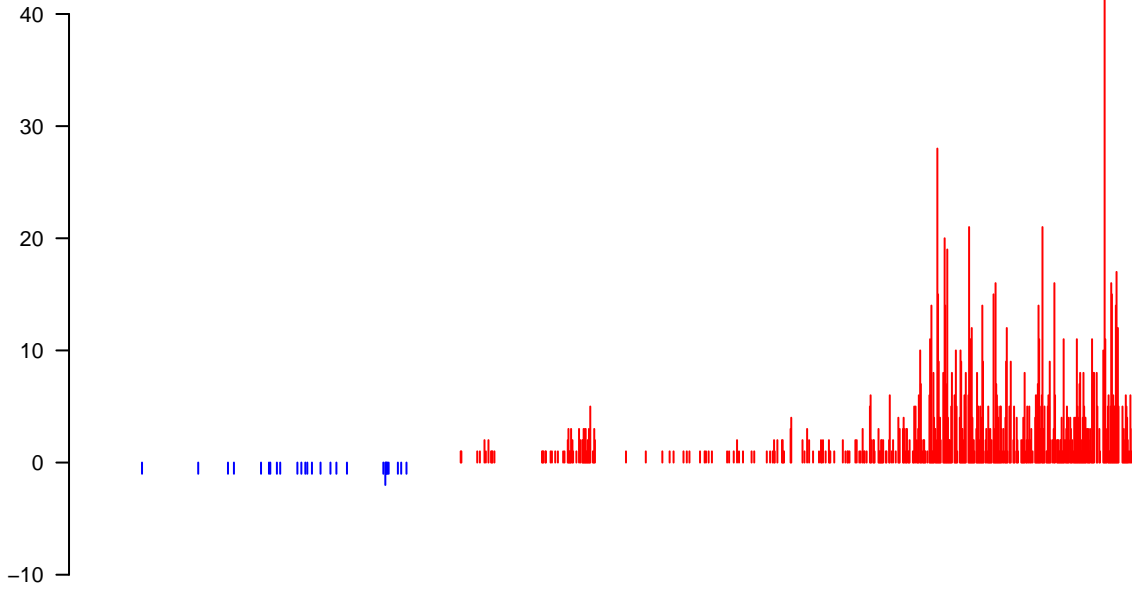
CG6490 3R – 22295795 22303805

OSS unique reads

CG17912 chr 2L : 16743404 – 16753489 +



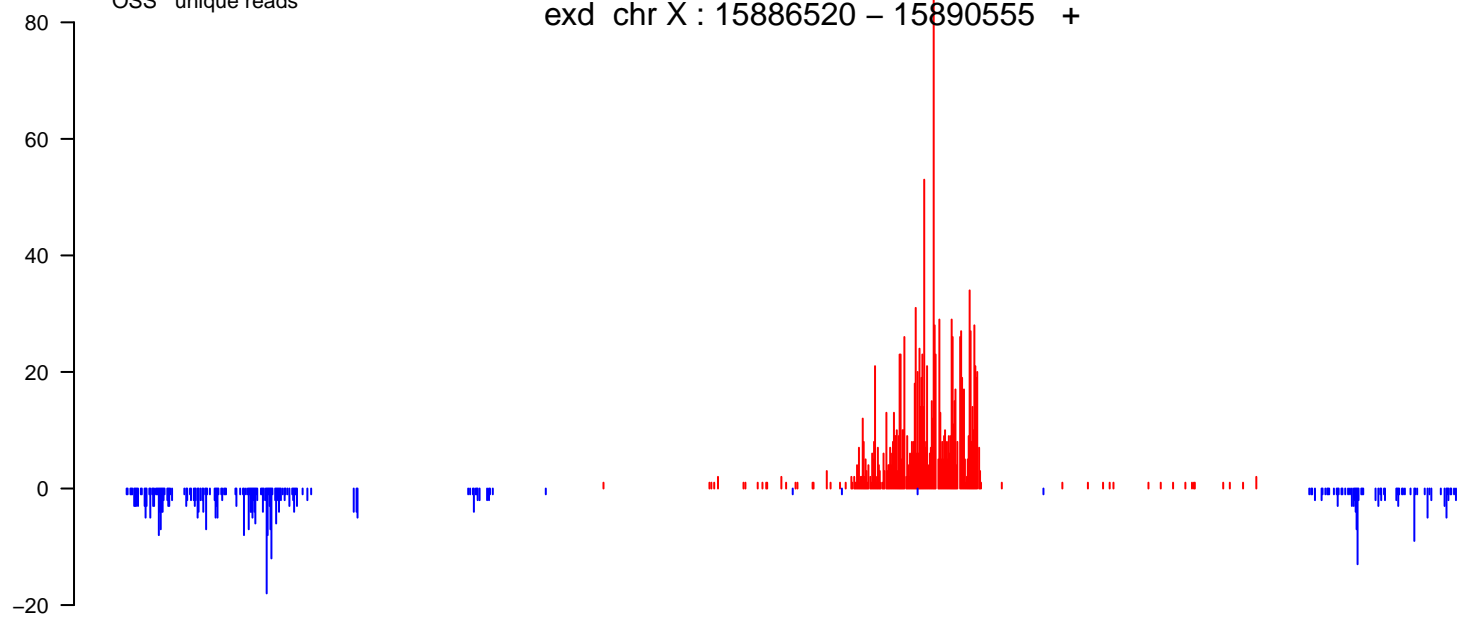
OSS norm. reads



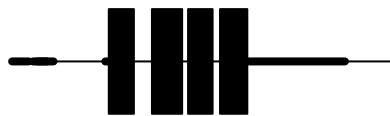
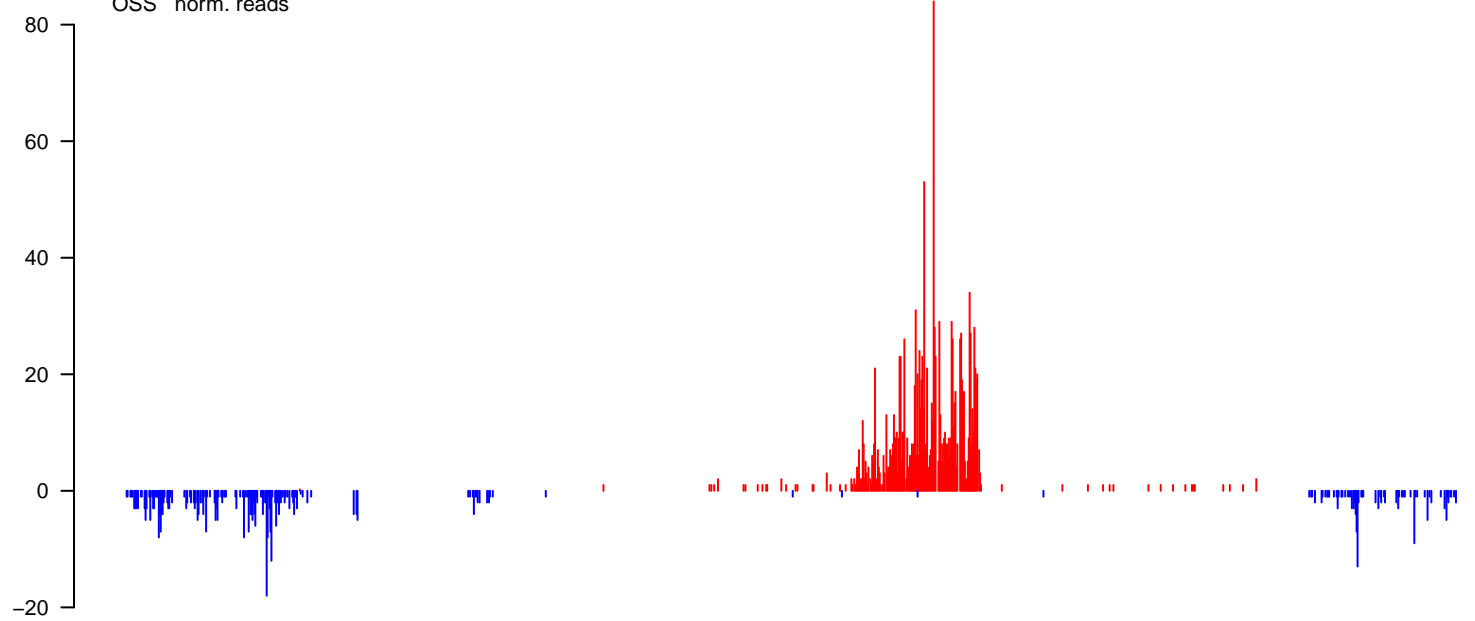
CG17912 2L + 16743404 16753489

exd chr X : 15886520 - 15890555 +

OSS unique reads



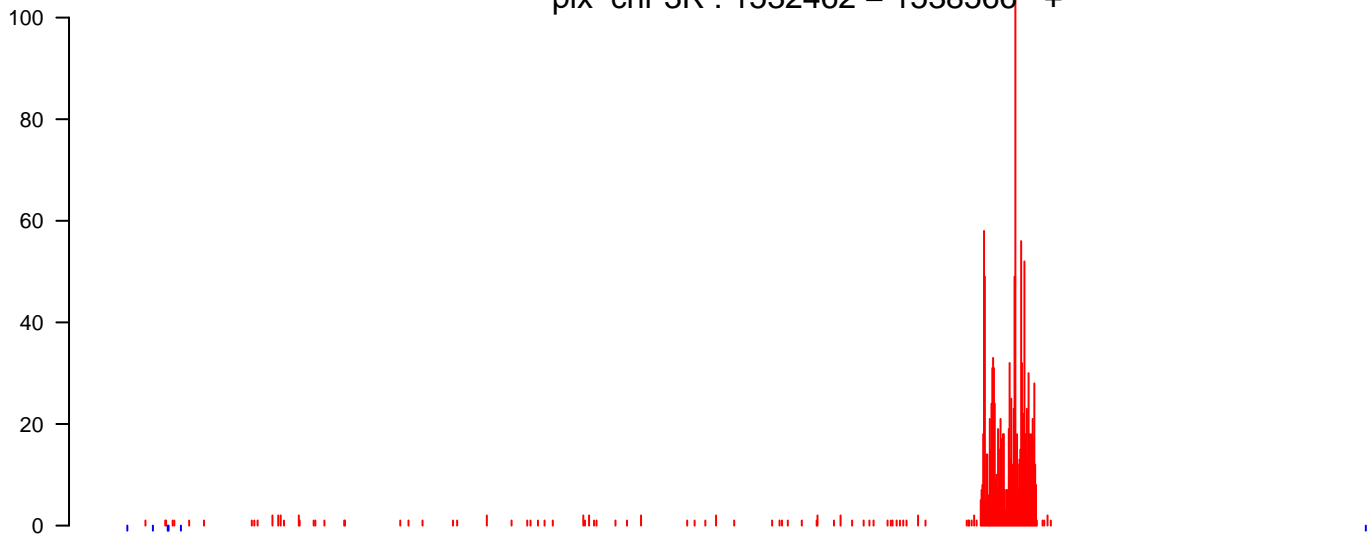
OSS norm. reads



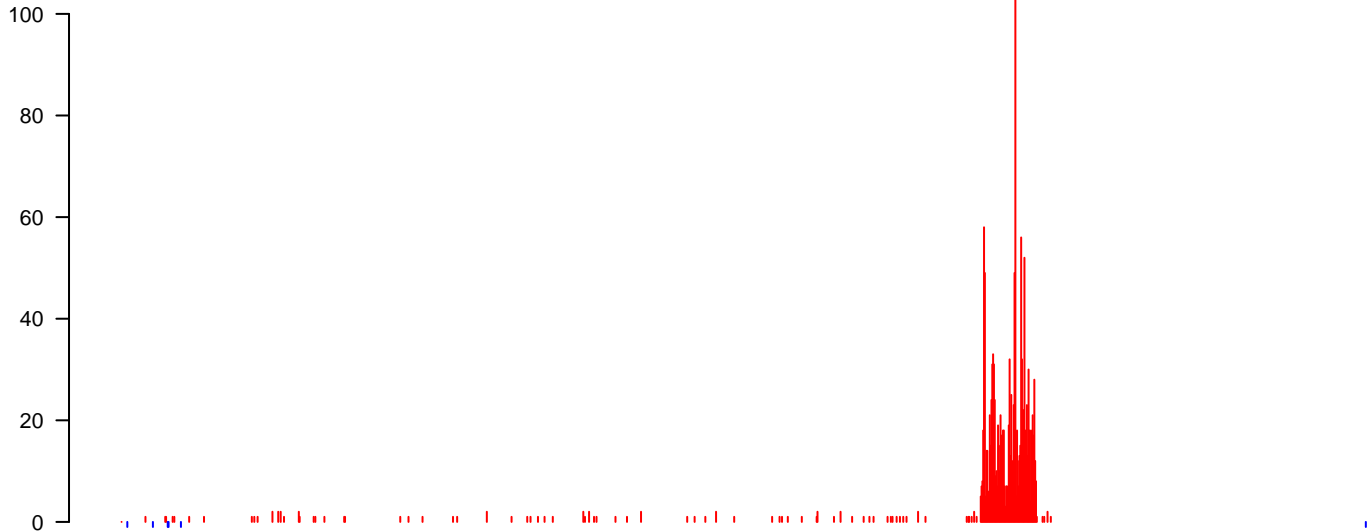
exd X + 15886520 15890555

plx chr 3R : 1532462 – 1538566 +

OSS unique reads



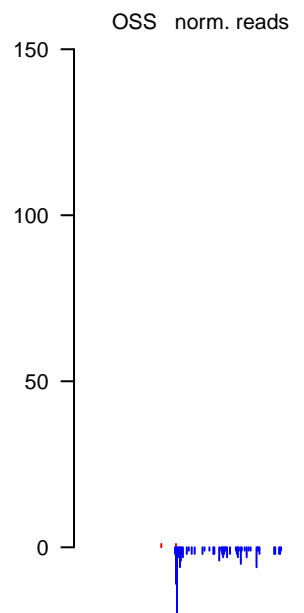
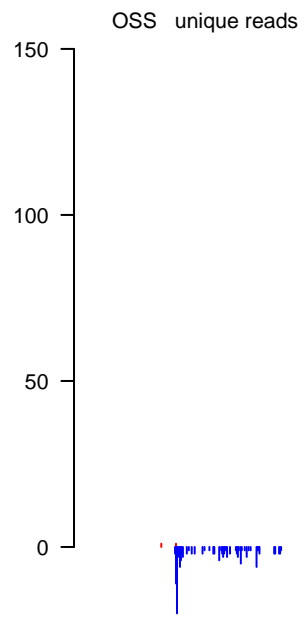
OSS norm. reads



plx 3R + 1532462 1538566

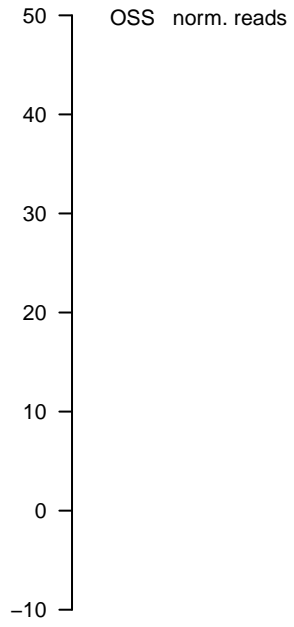
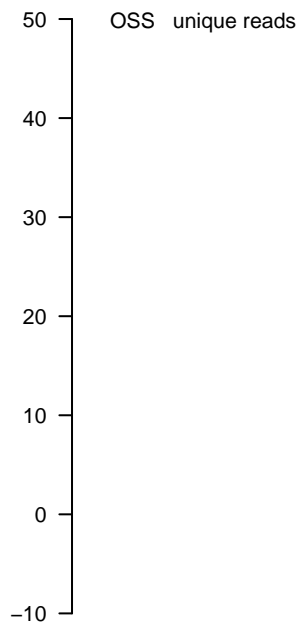


Ef1alpha48D chr 2R : 7779597 – 7783123 +



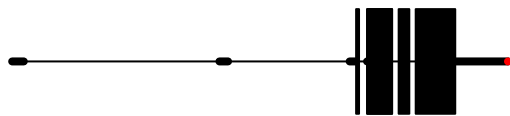
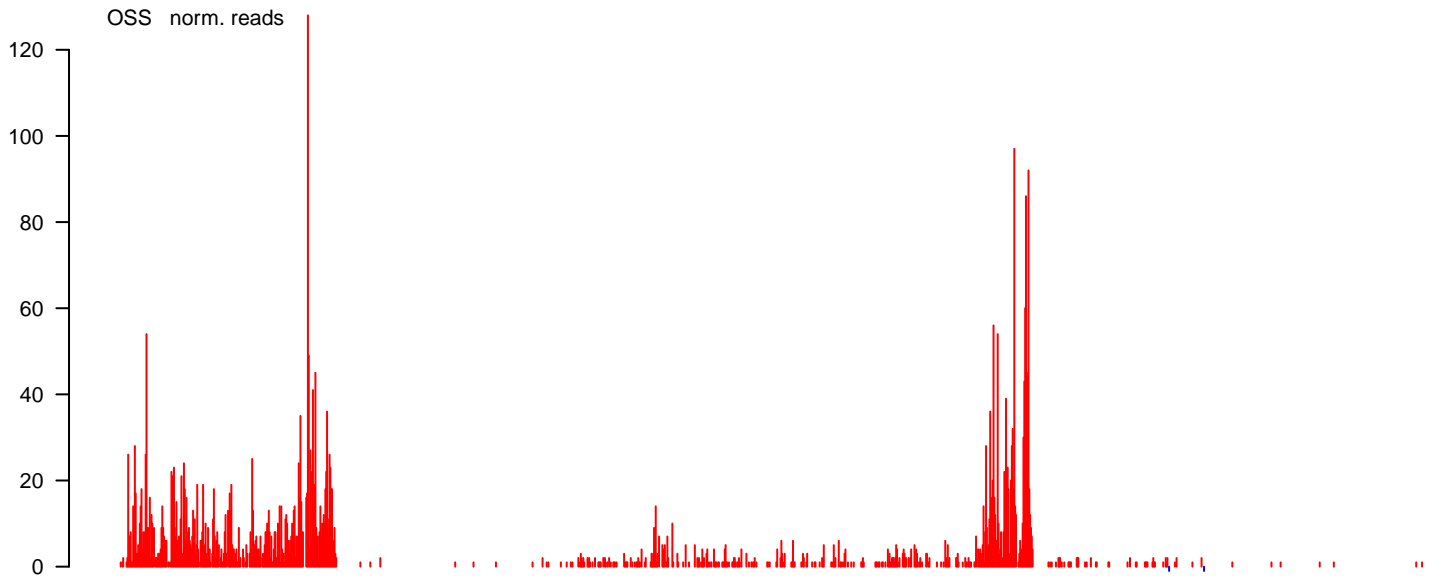
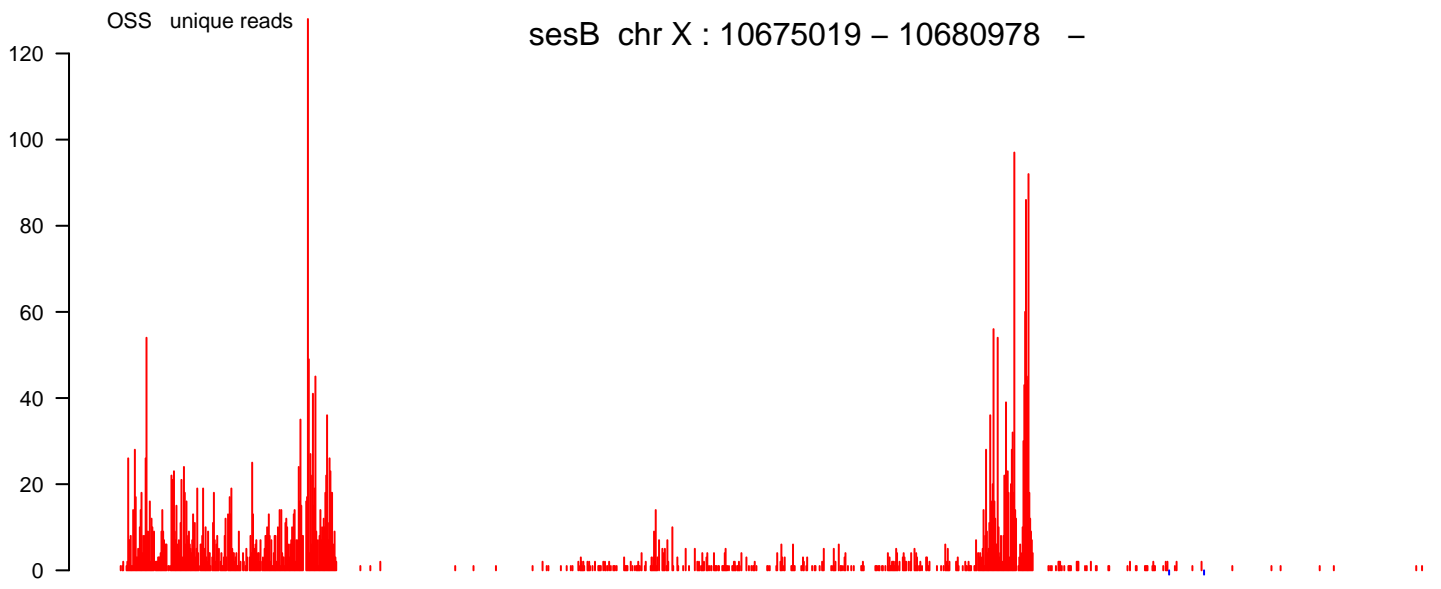
Ef1alpha48D 2R + 7779597 7783123

kek1 chr 2L : 12817001 – 12822787 –

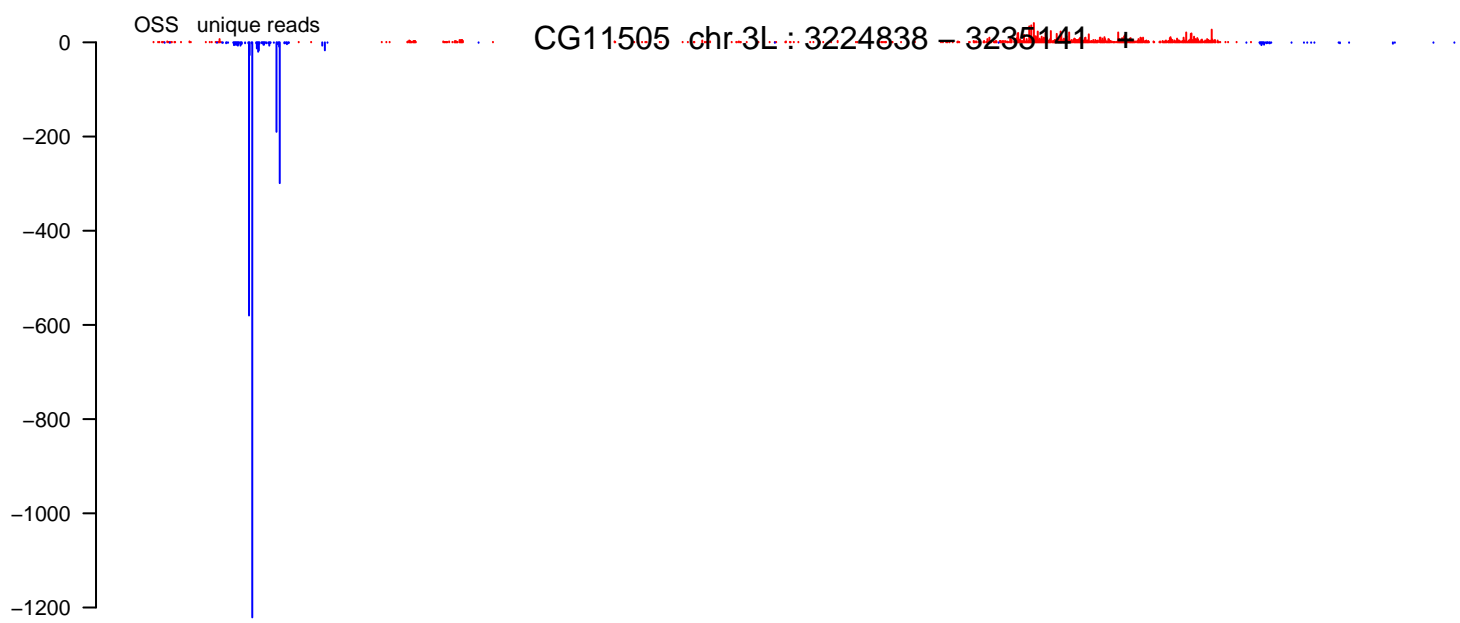


kek1 2L – 12817001 12822787

sesB chr X : 10675019 – 10680978 –

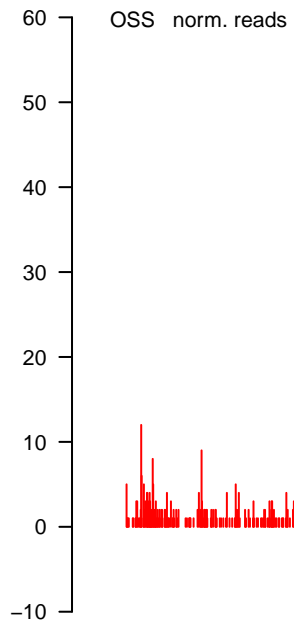
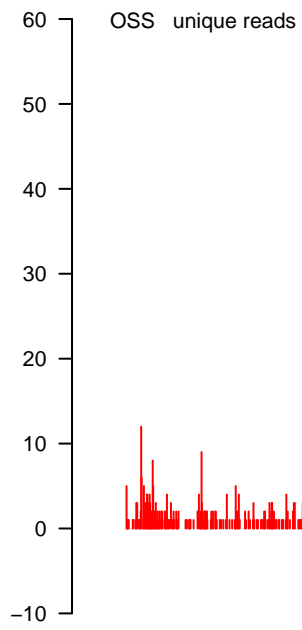


CG11505 chr-3L : 3224838 - 3235141



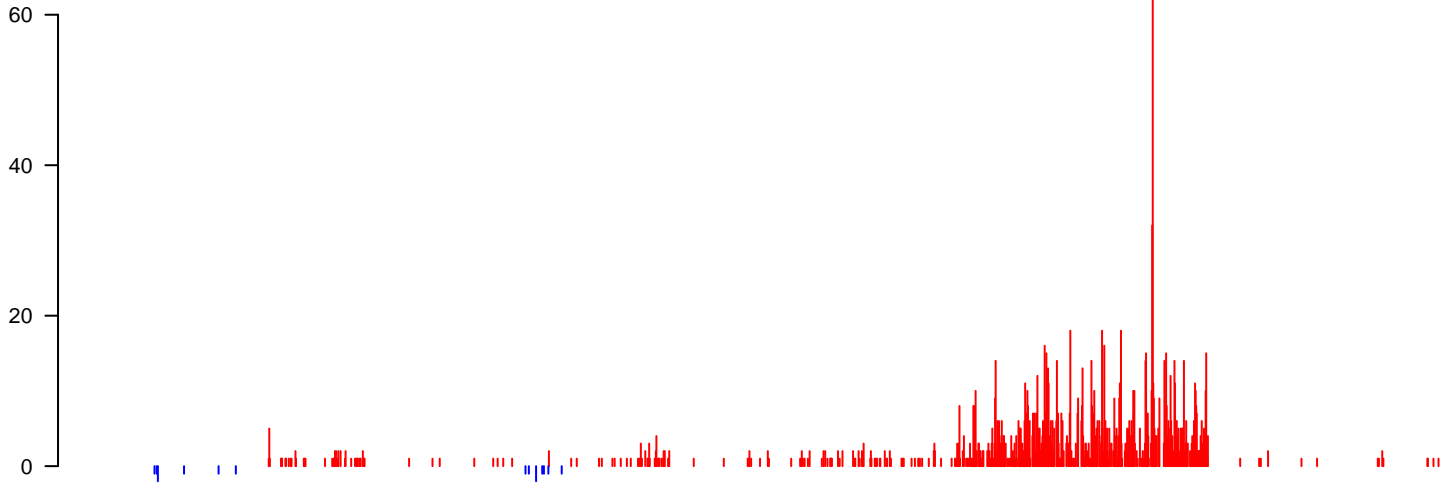
CG11505 3L + 3224838 3235141

CG33087 chr 2R : 4094023 – 4113939 +

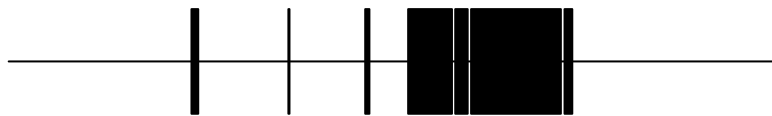
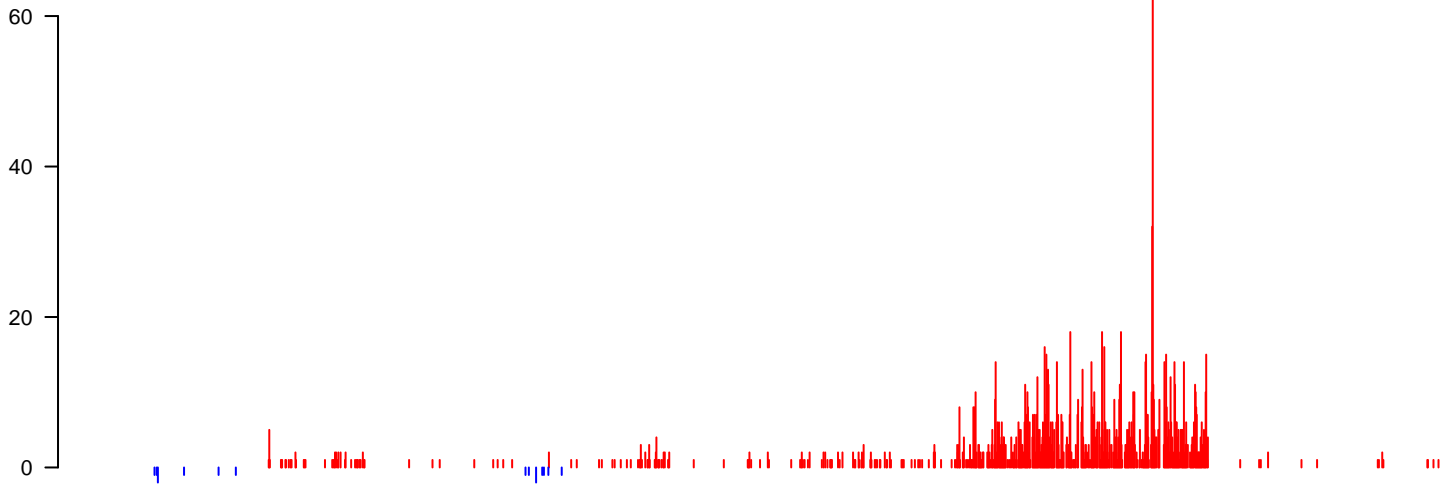


OSS unique reads

AGO1 chr 2R : 9831756 – 9845594 –



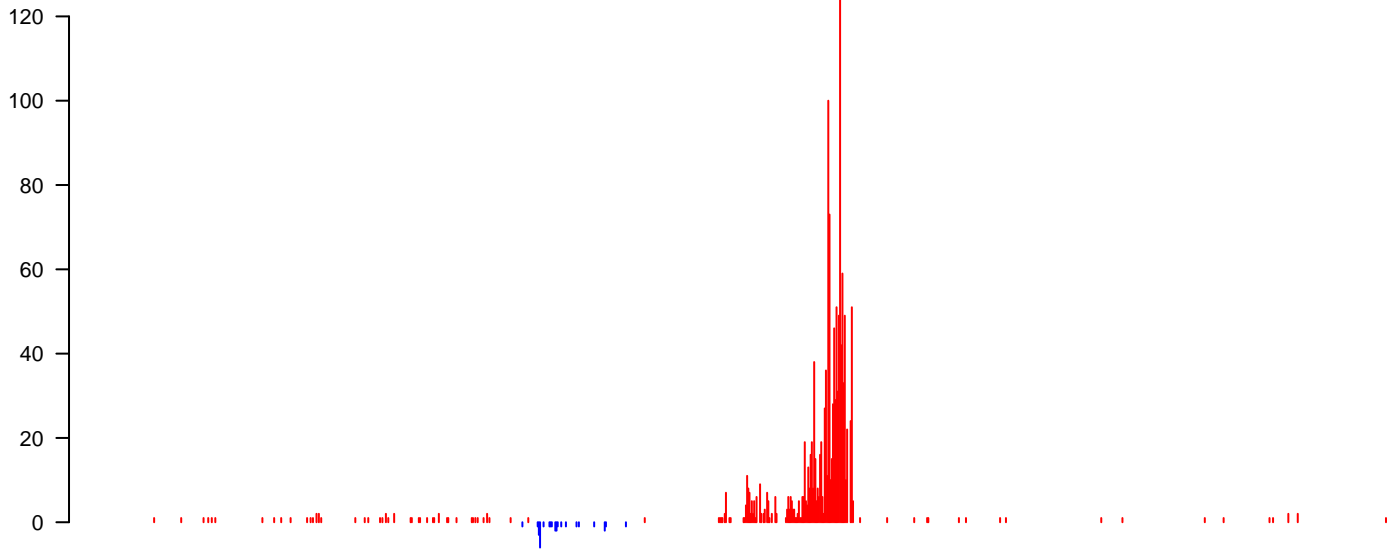
OSS norm. reads



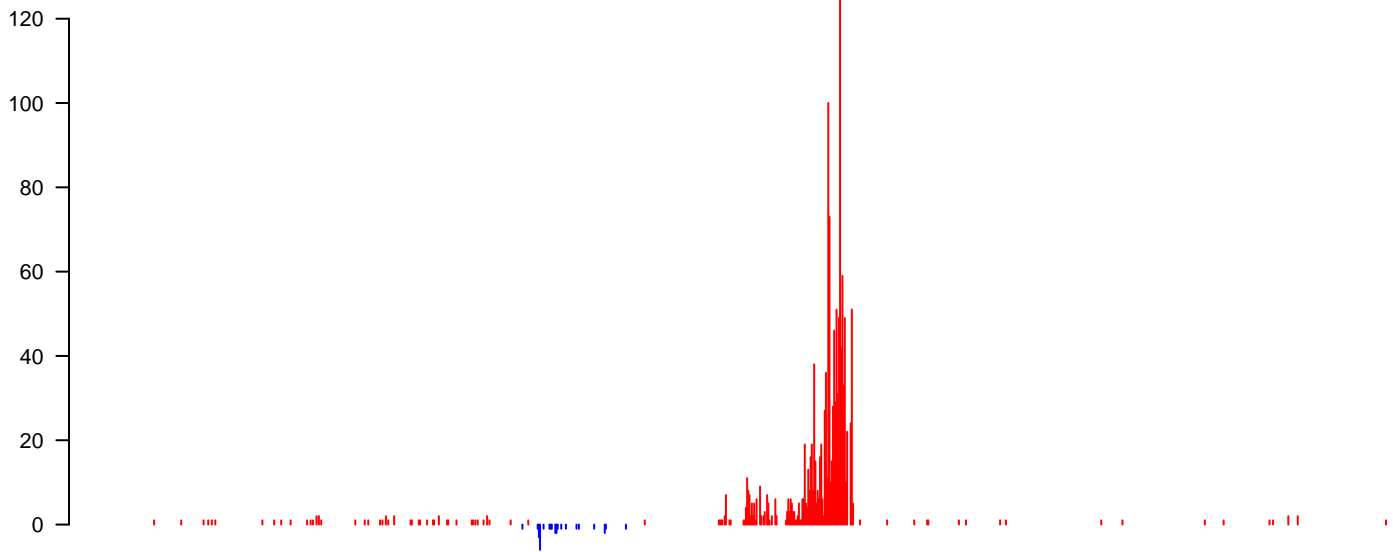
AGO1 2R – 9831756 9845594

OSS unique reads

CG2813 chr 2L : 574513 – 575799 +

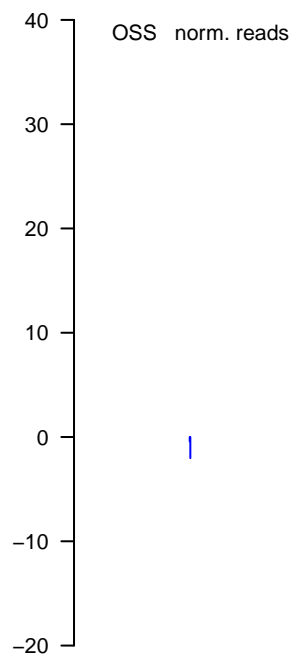
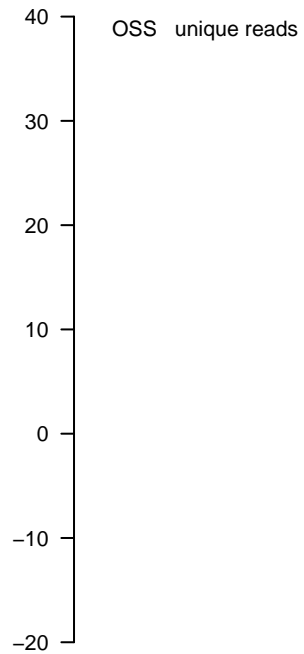


OSS norm. reads



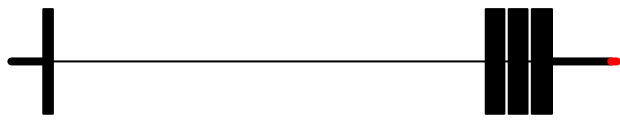
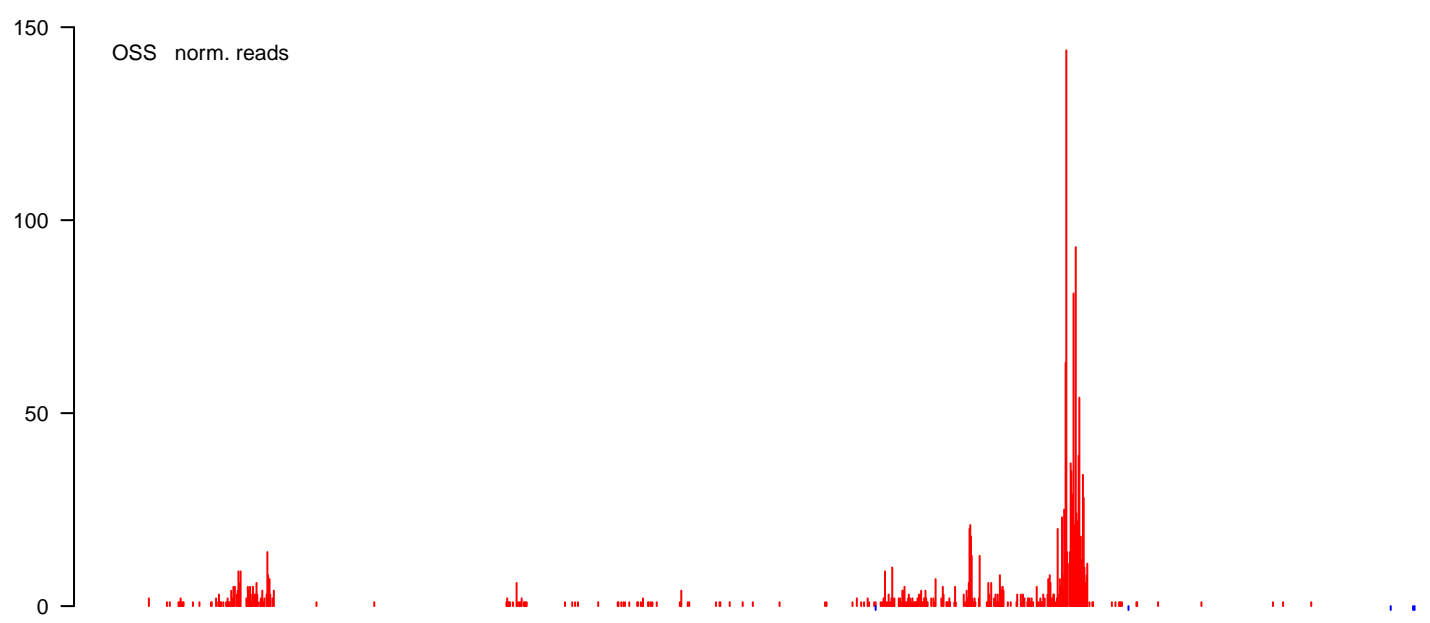
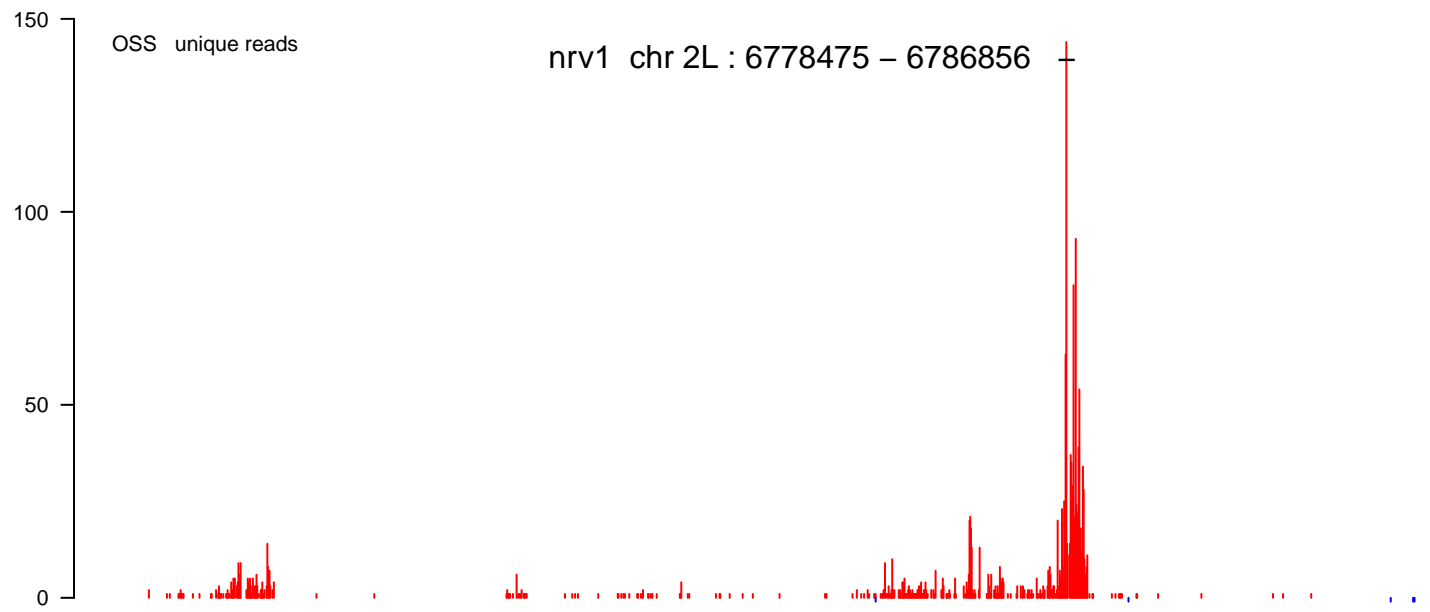
CG2813 2L + 574513 575799

CG32767 chr X : 4966381 – 4978760 –





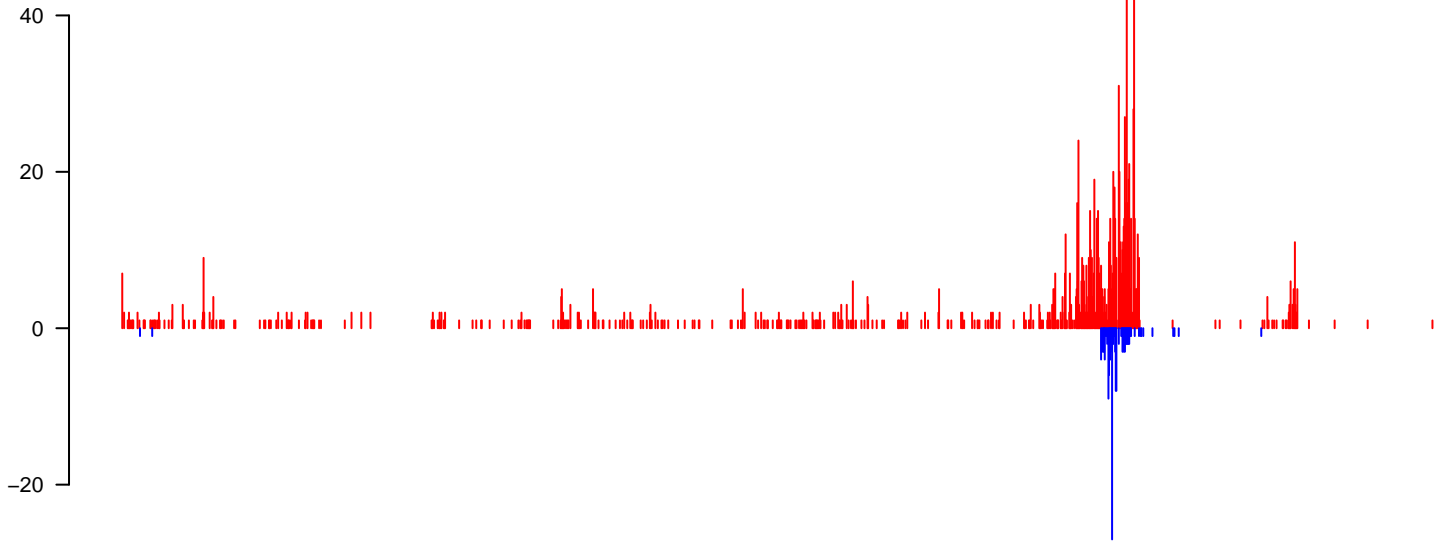
nrv1 chr 2L : 6778475 – 6786856



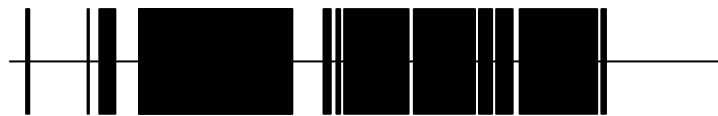
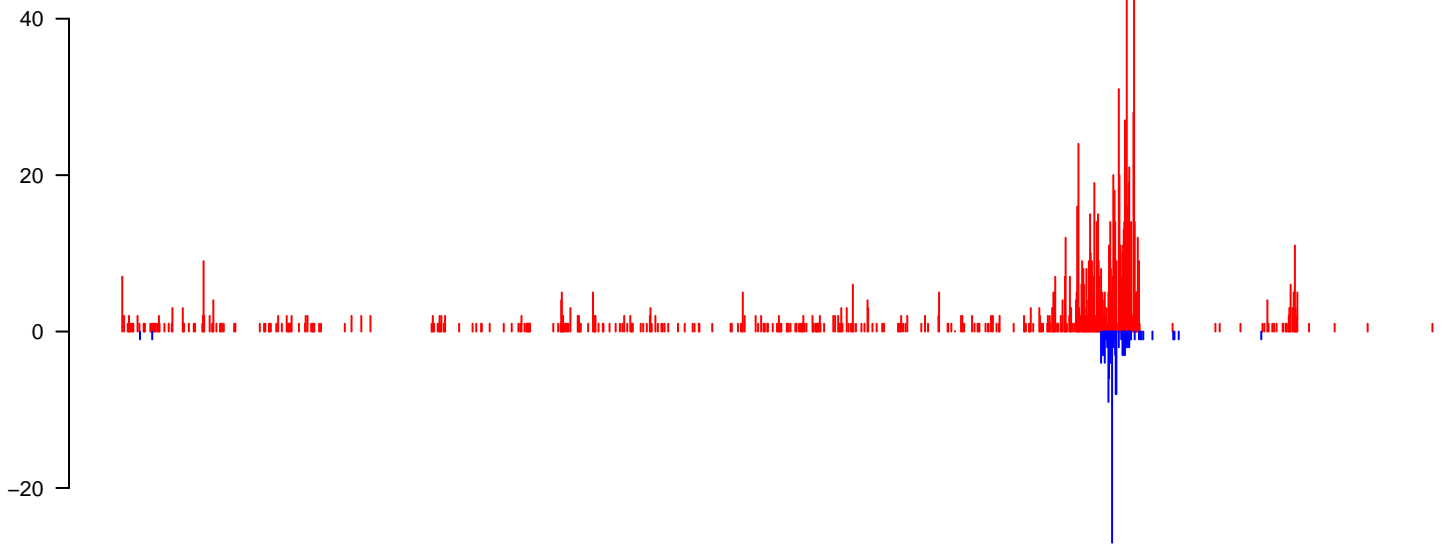
nrv1 2L – 6778475 6786856

OSS unique reads

sbb chr 2R : 14165638 – 14177357 –

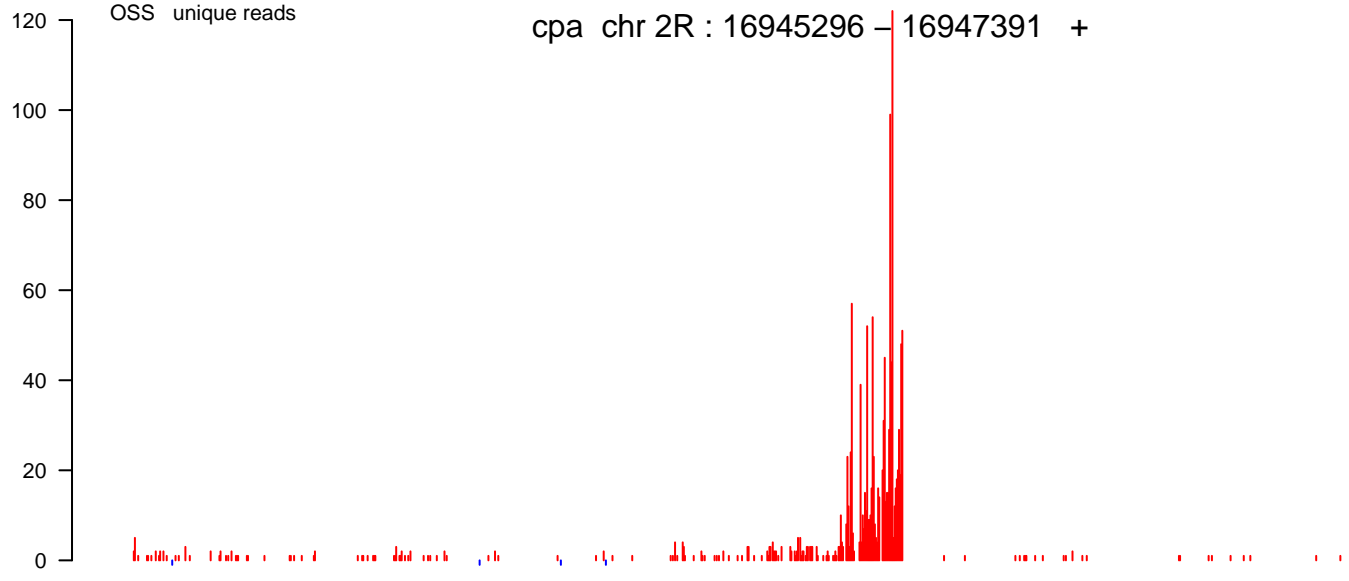


OSS norm. reads

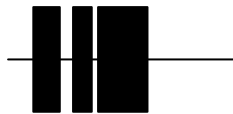
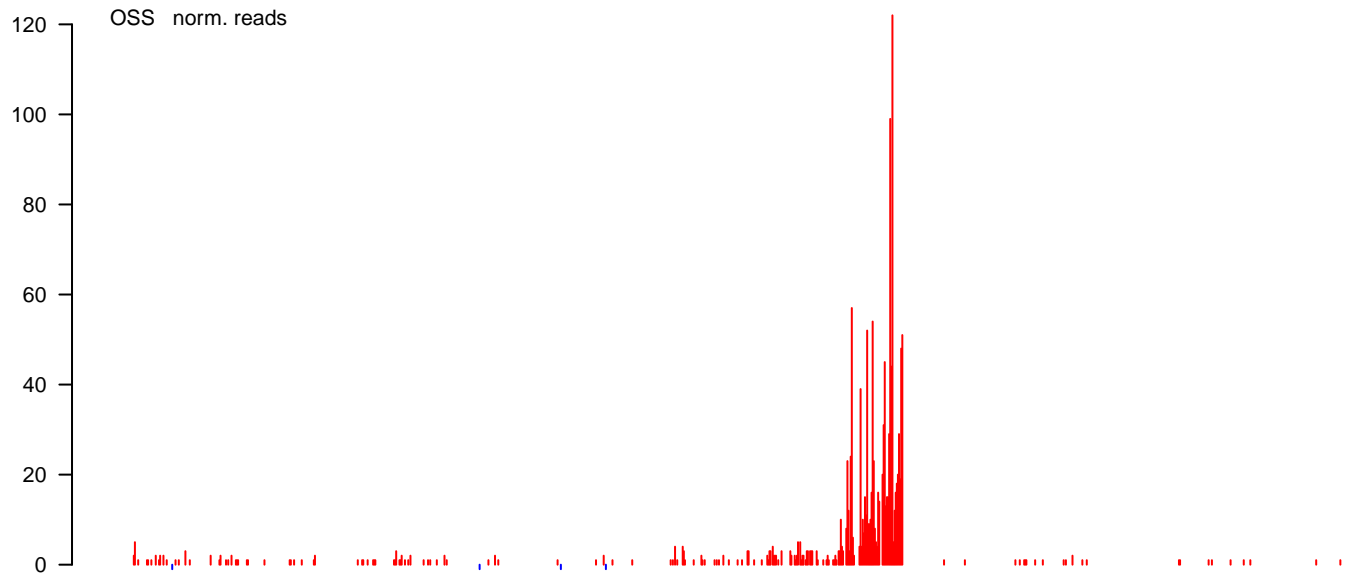


OSS unique reads

cpa chr 2R : 16945296 - 16947391 +

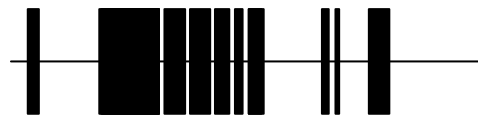
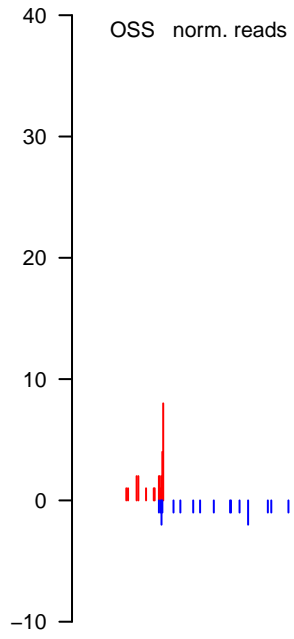
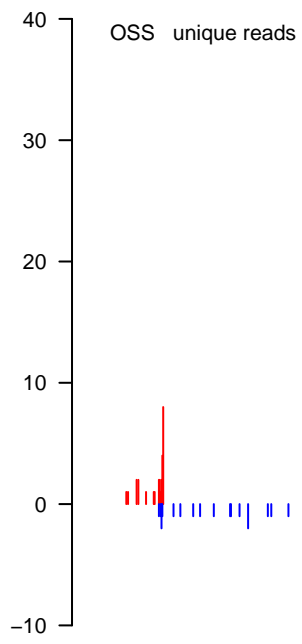


OSS norm. reads



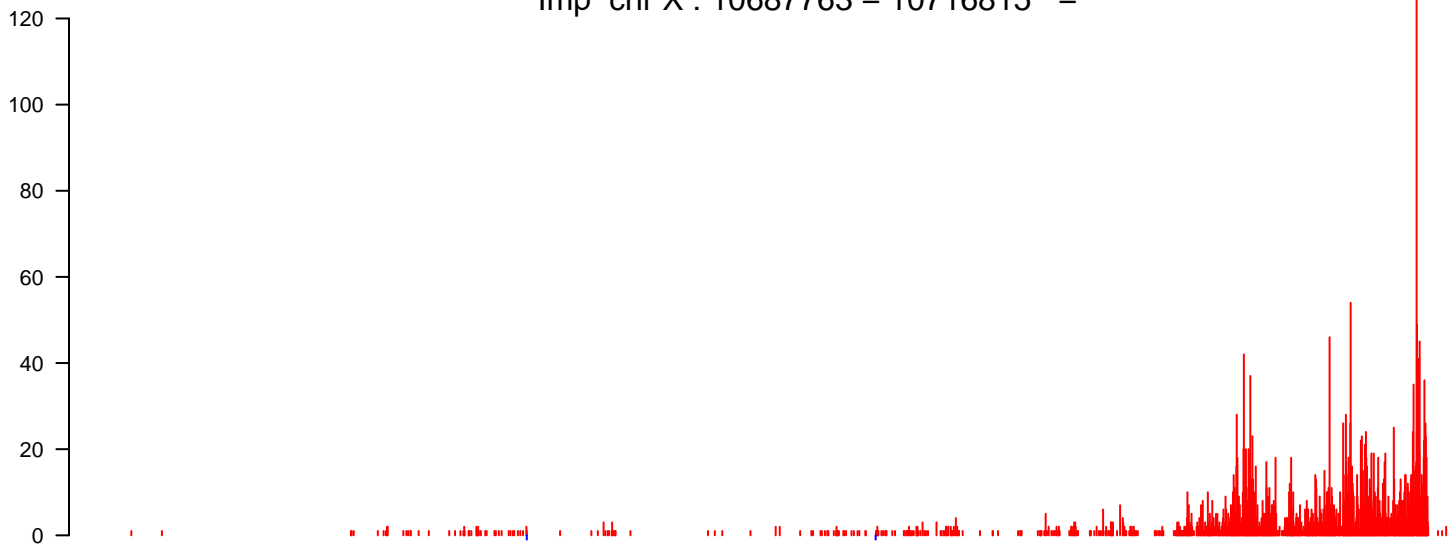
cpa 2R + 16945296 16947391

Su(var)2-10 chr 2R : 5003631 - 5009114 +

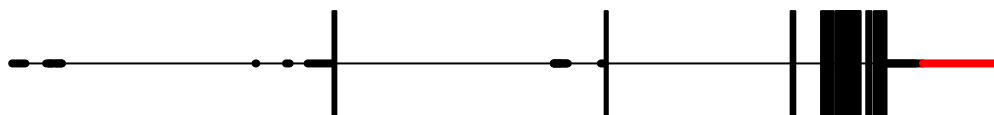
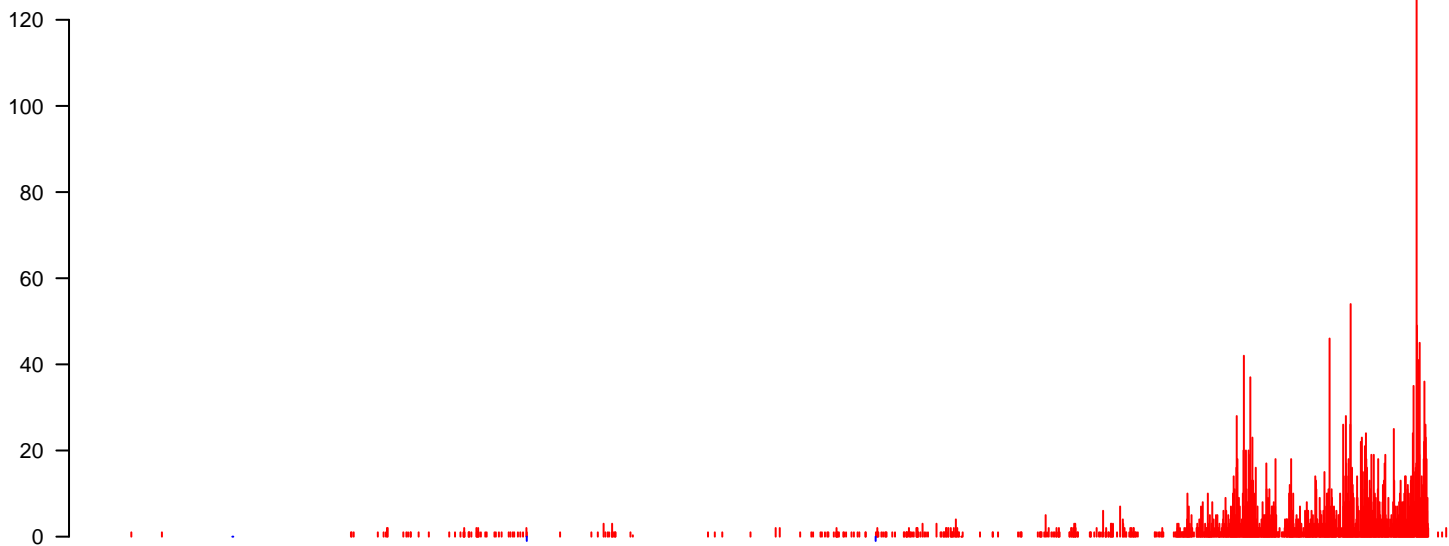


Imp chr X : 10687763 – 10716815 –

OSS unique reads

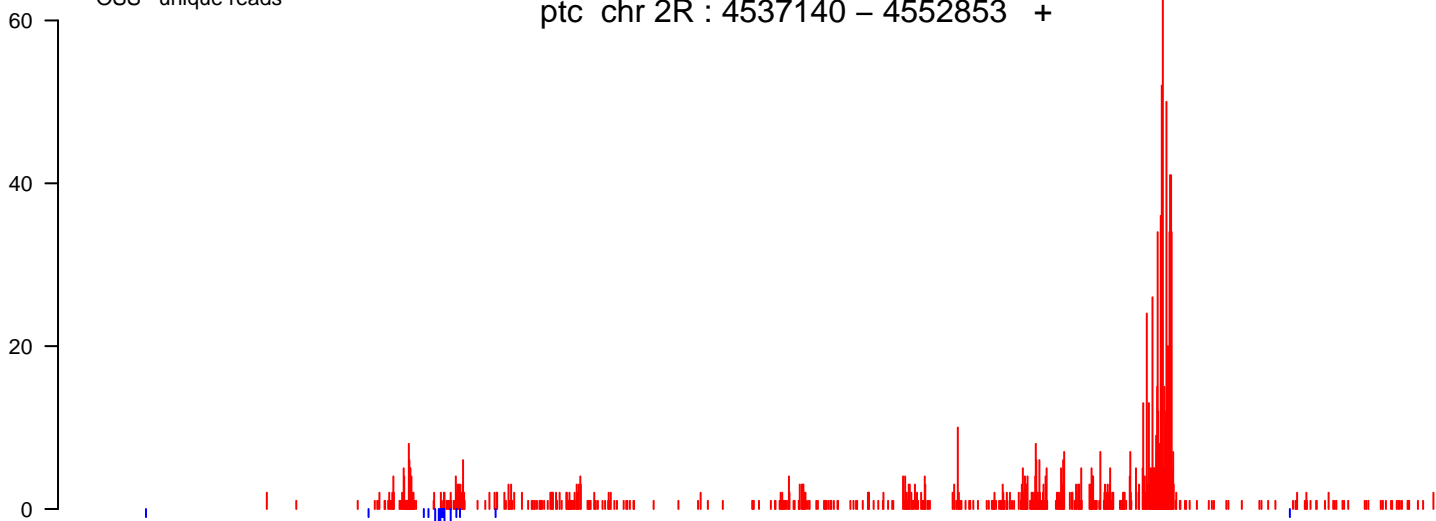


OSS norm. reads

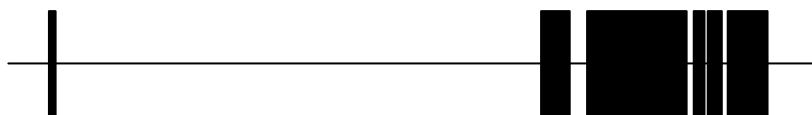
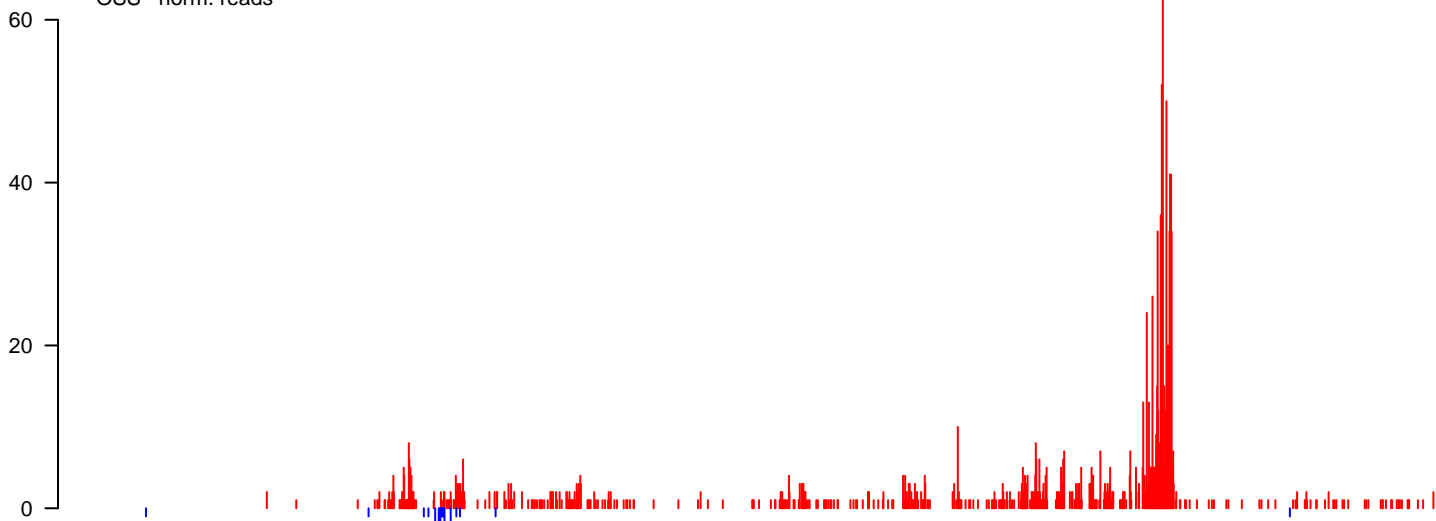


OSS unique reads

ptc chr 2R : 4537140 – 4552853 +



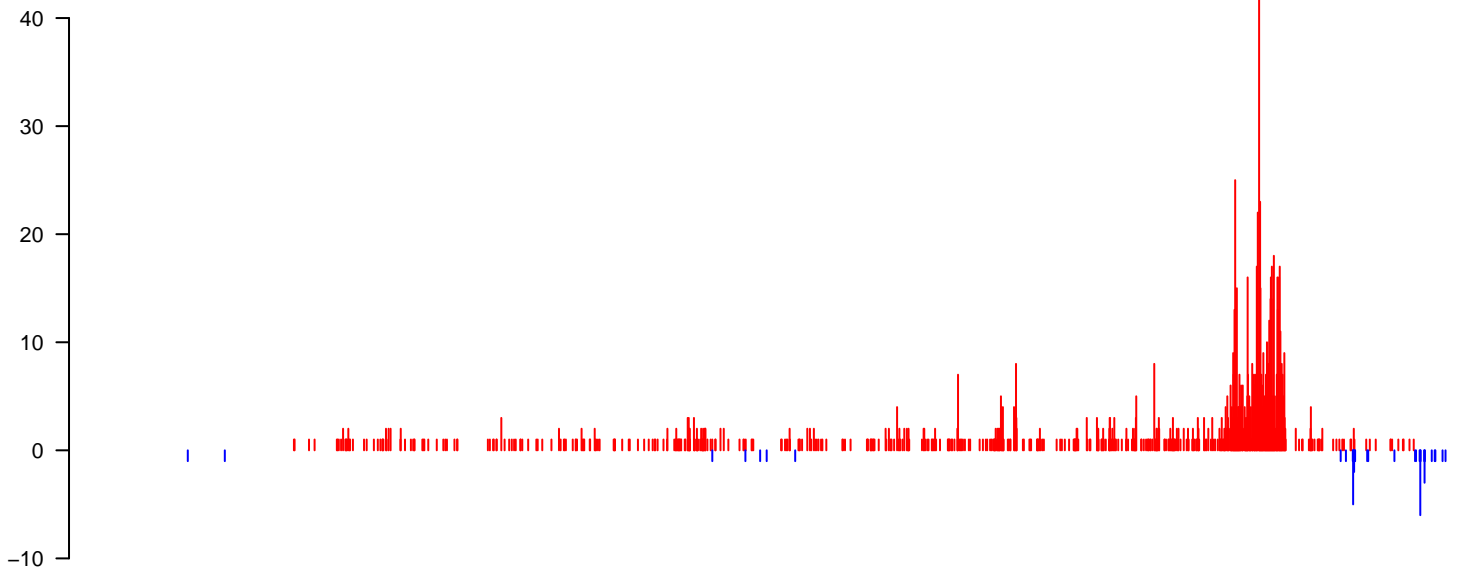
OSS norm. reads



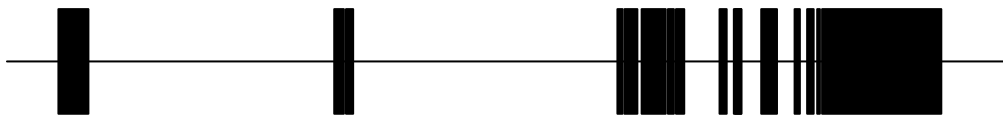
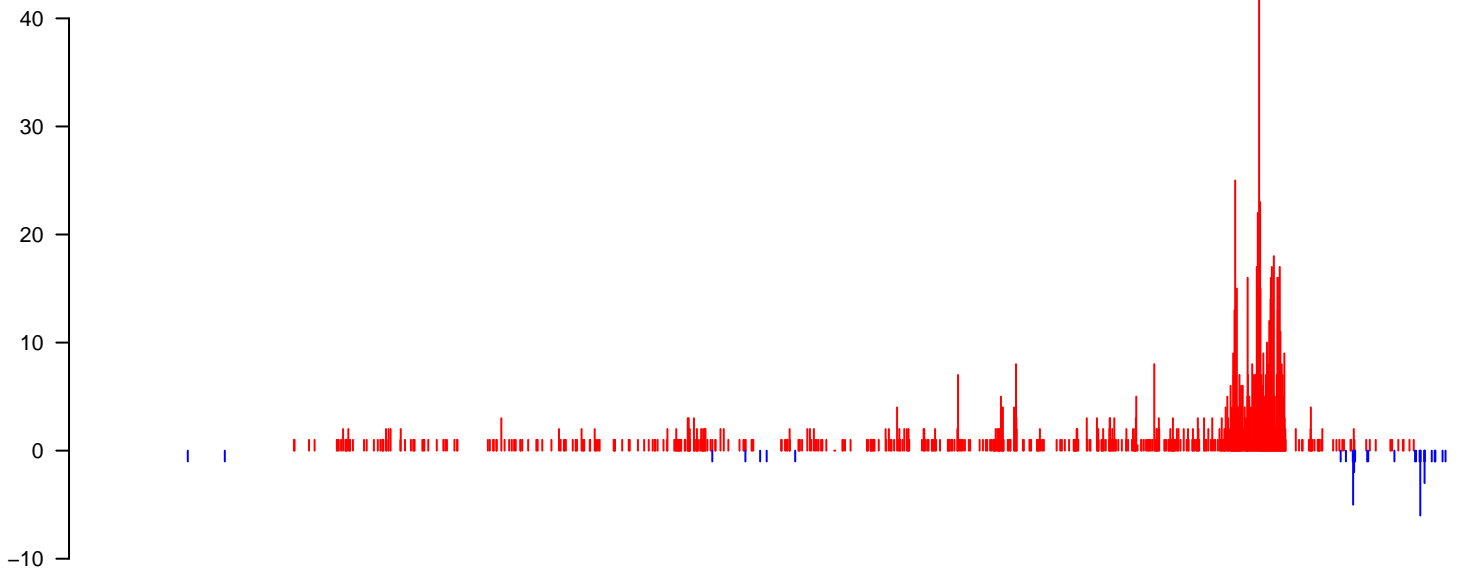
ptc 2R + 4537140 4552853

OSS unique reads

osa chr 3R : 13513528 – 13544059 –



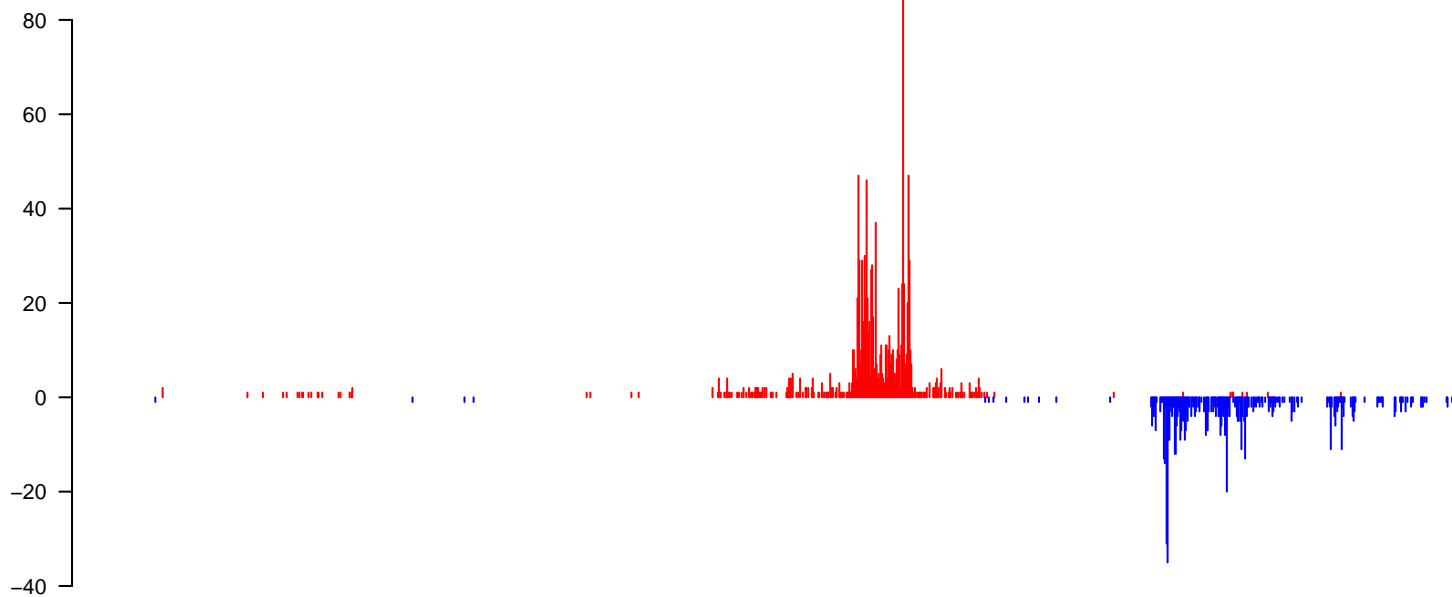
OSS norm. reads



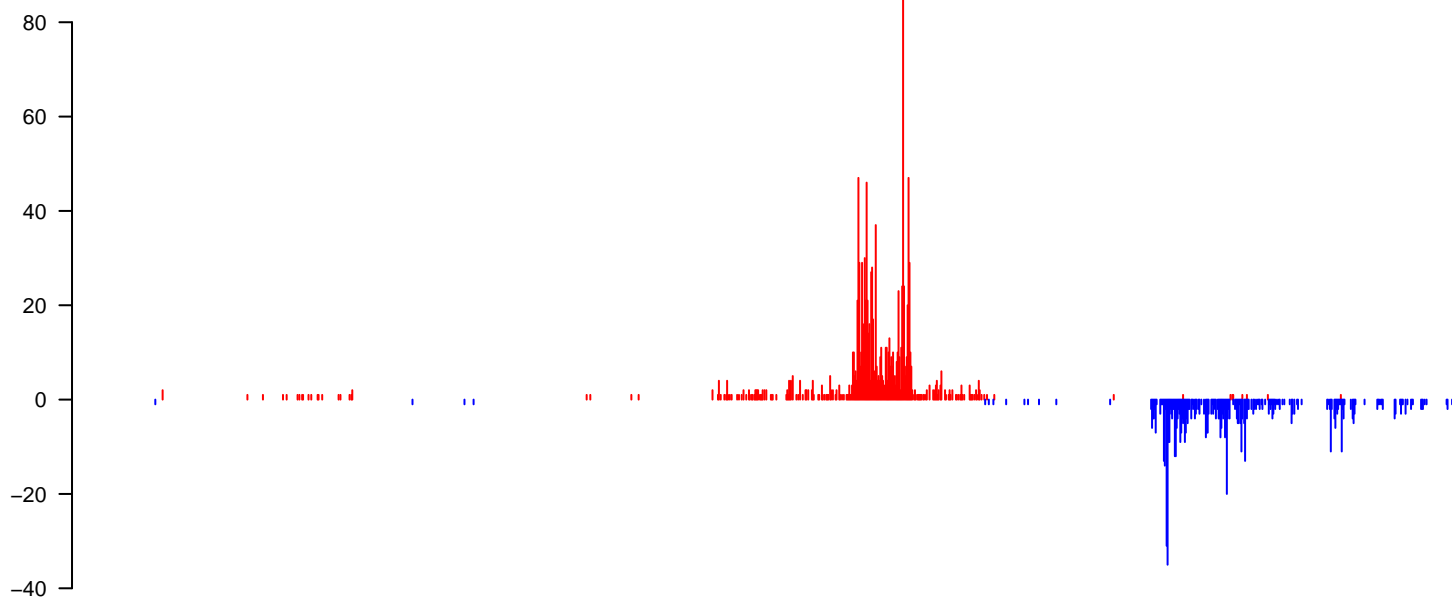
osa 3R – 13513528 13544059

OSS unique reads

CG11652 chr 3L : 11685525 – 11690086 –



OSS norm. reads

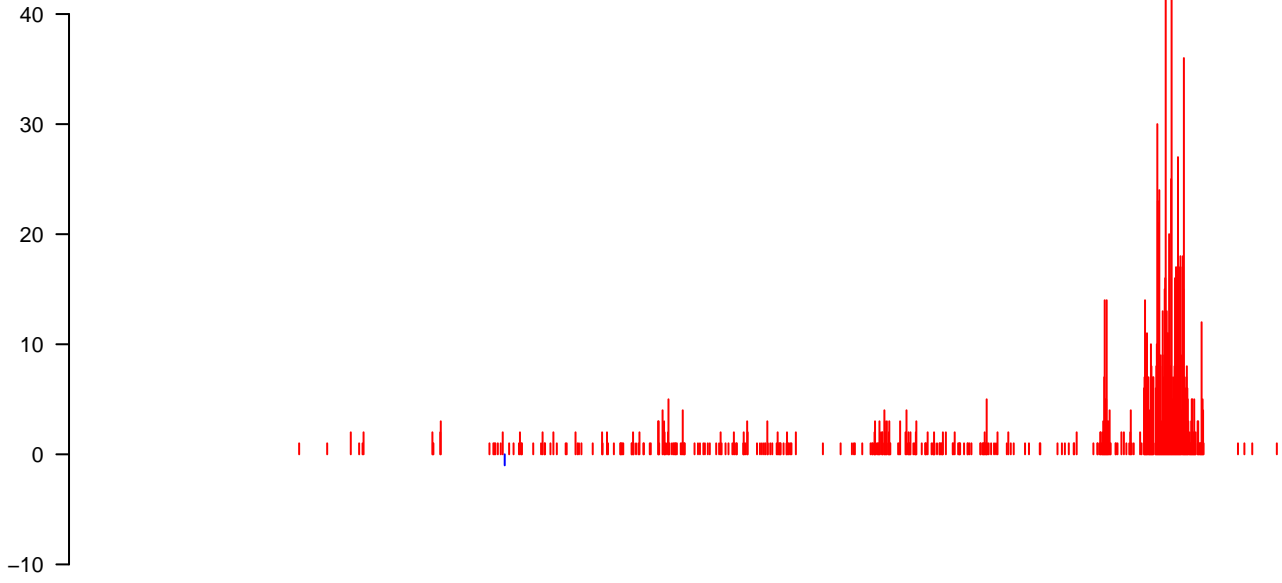


CG11652 3L – 11685525 11690086

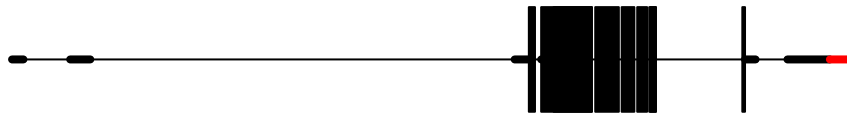
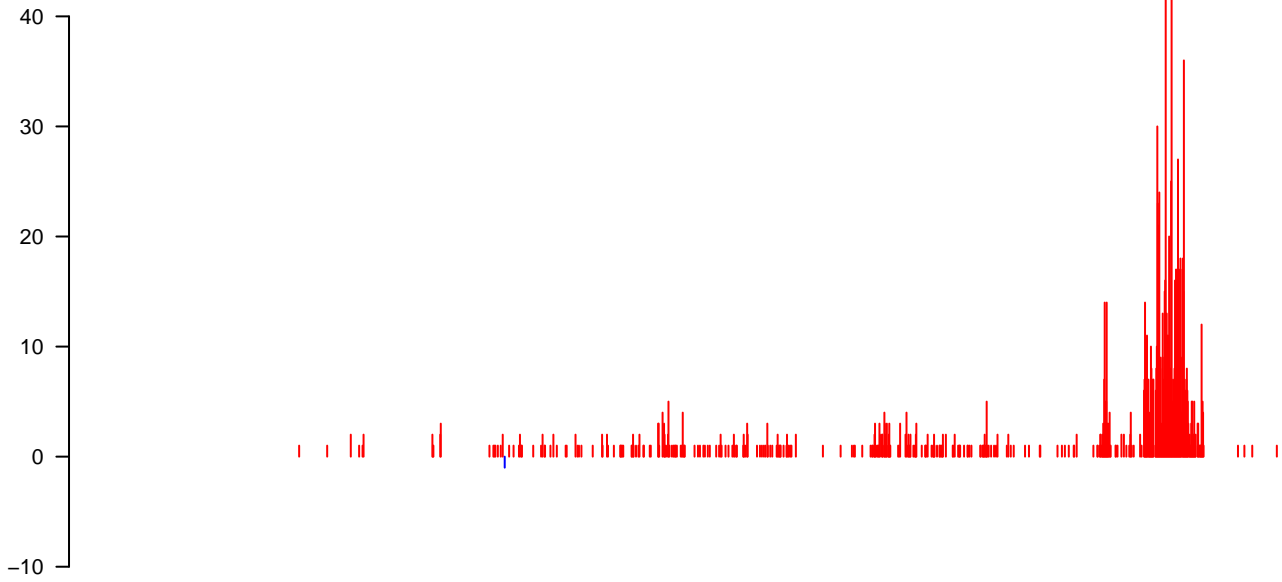


OSS unique reads

Stat92E chr 3R : 16361034 – 16378034 –



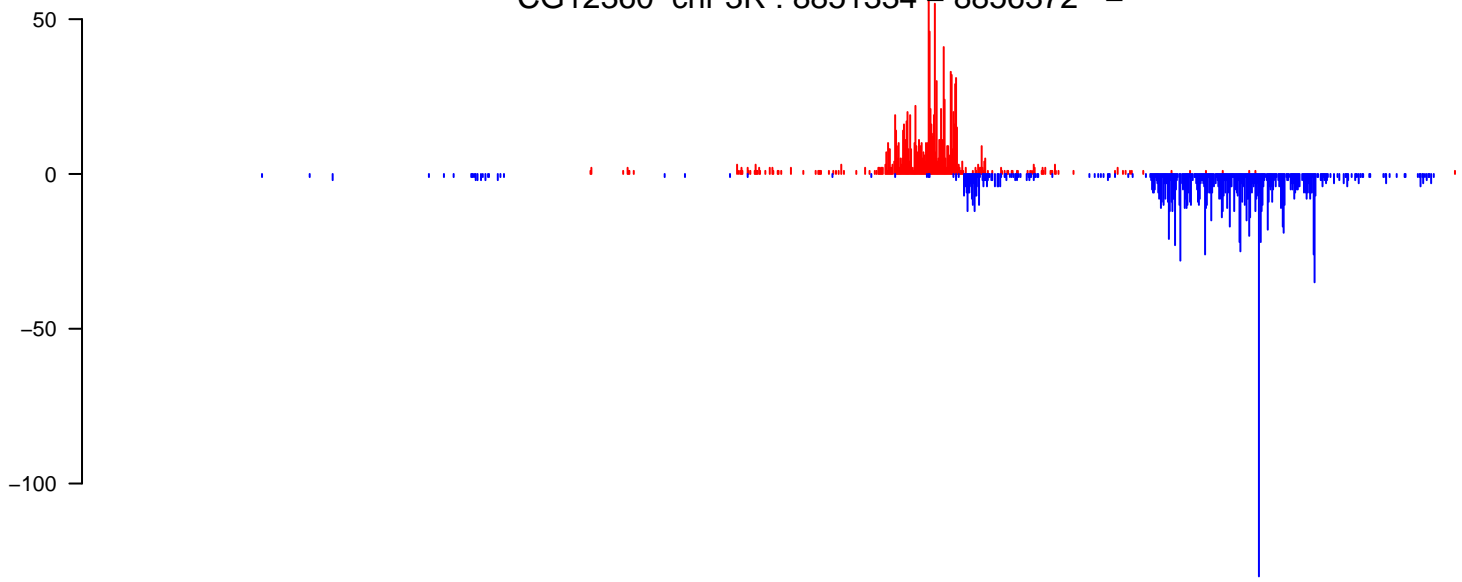
OSS norm. reads



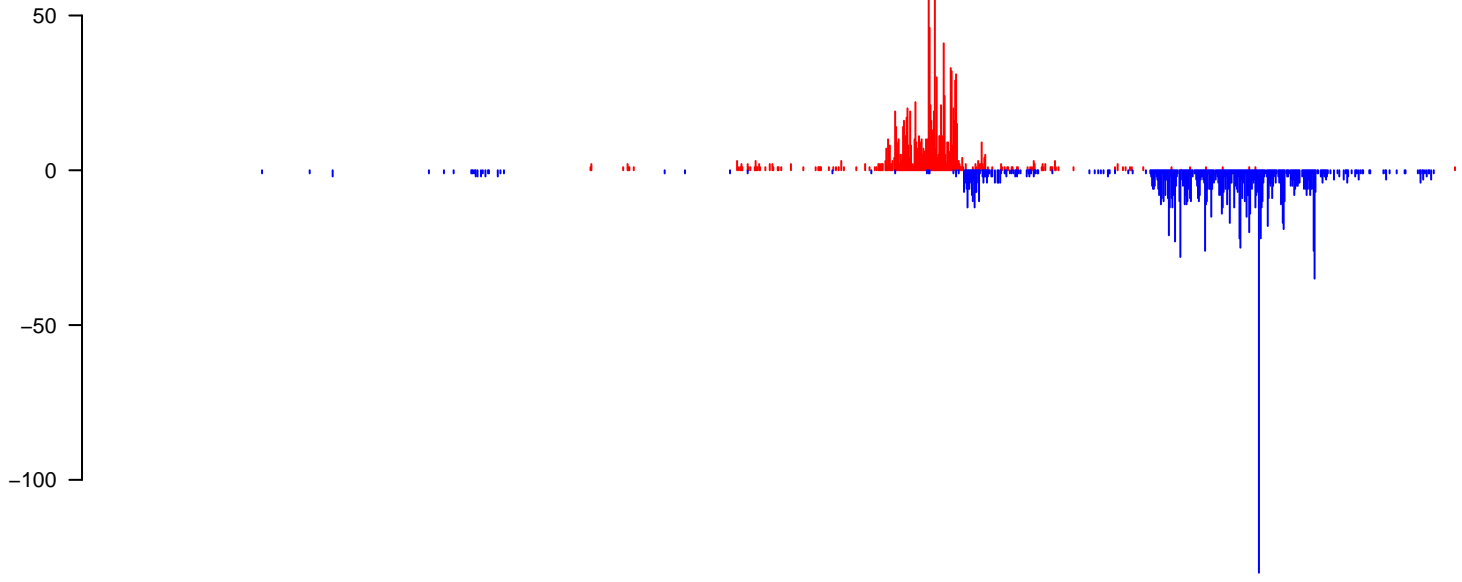
Stat92E 3R – 16361034 16378034

CG12360 chr 3R : 8851334 - 8856372 -

OSS unique reads

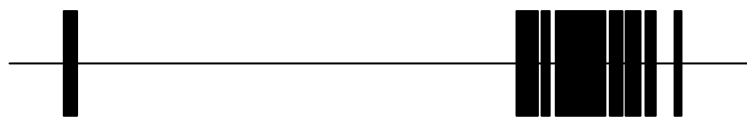
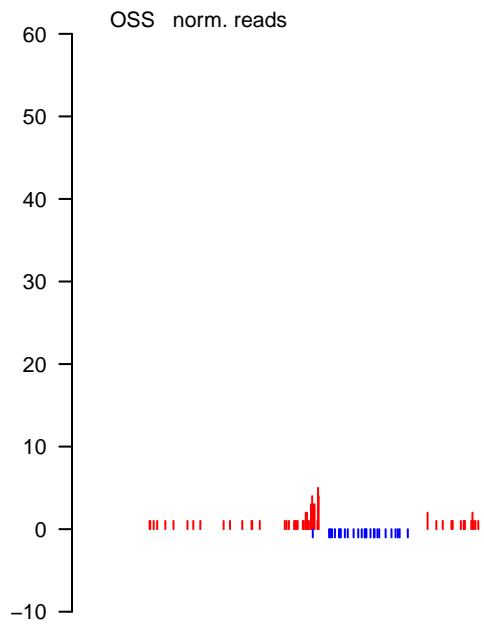
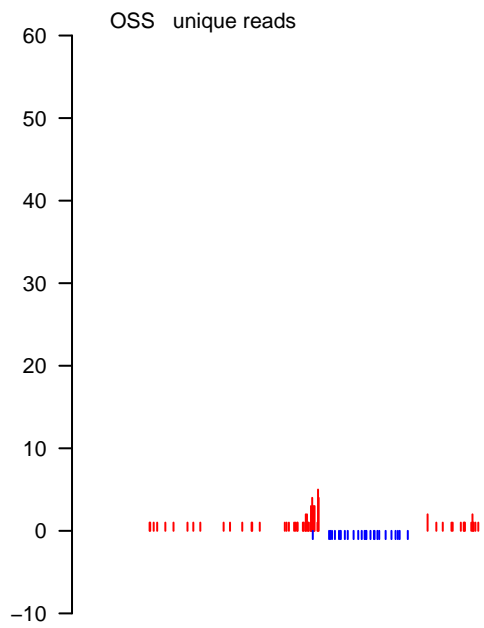


OSS norm. reads

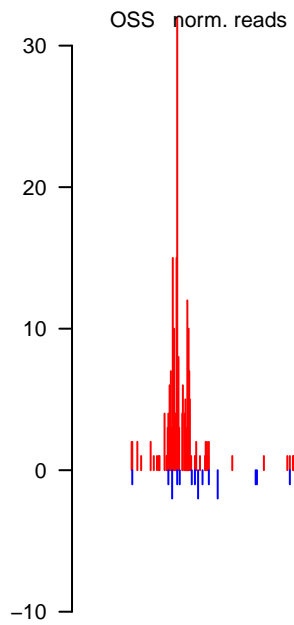
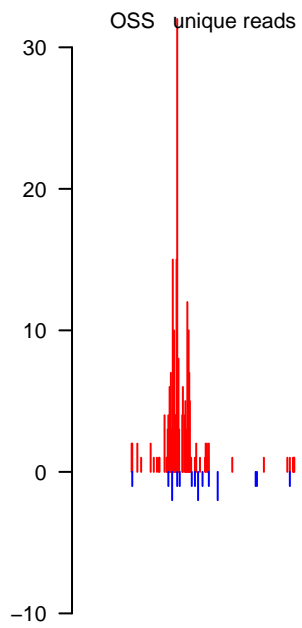


CG12360 3R - 8851334 8856372

BicD chr 2L : 17460470 – 17473255 –

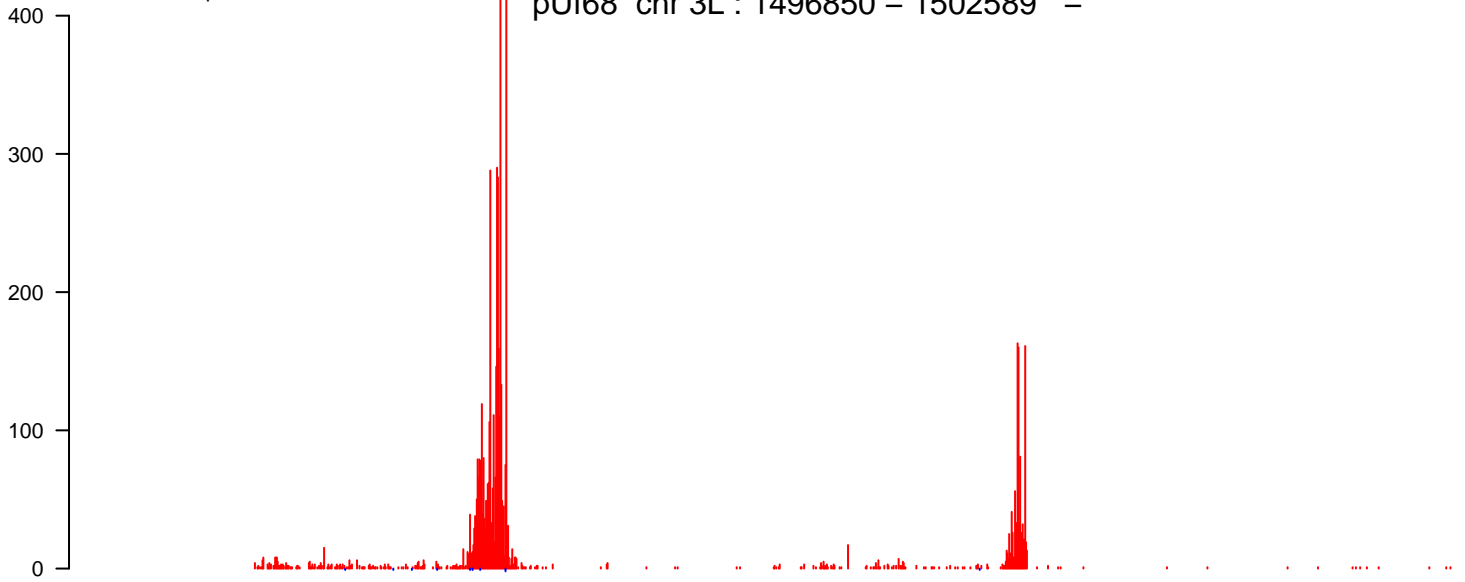


dpld chr 2R : 3366384 – 3377368 –

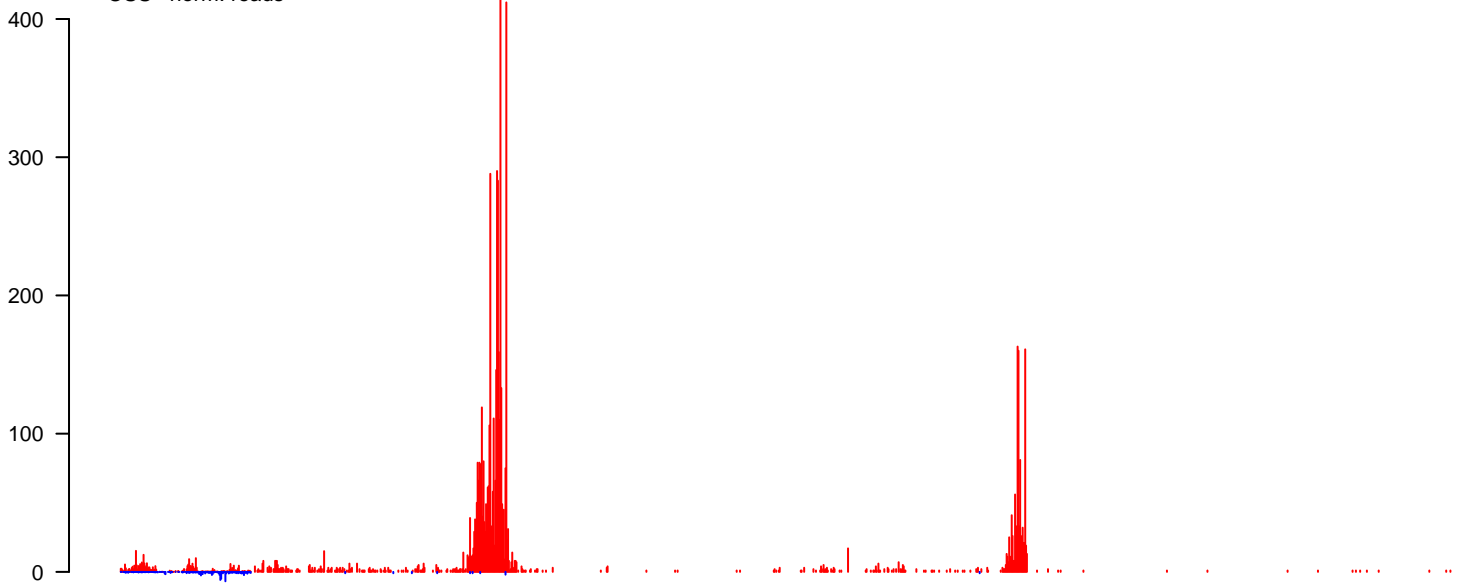


OSS unique reads

pUf68 chr 3L : 1496850 – 1502589 –



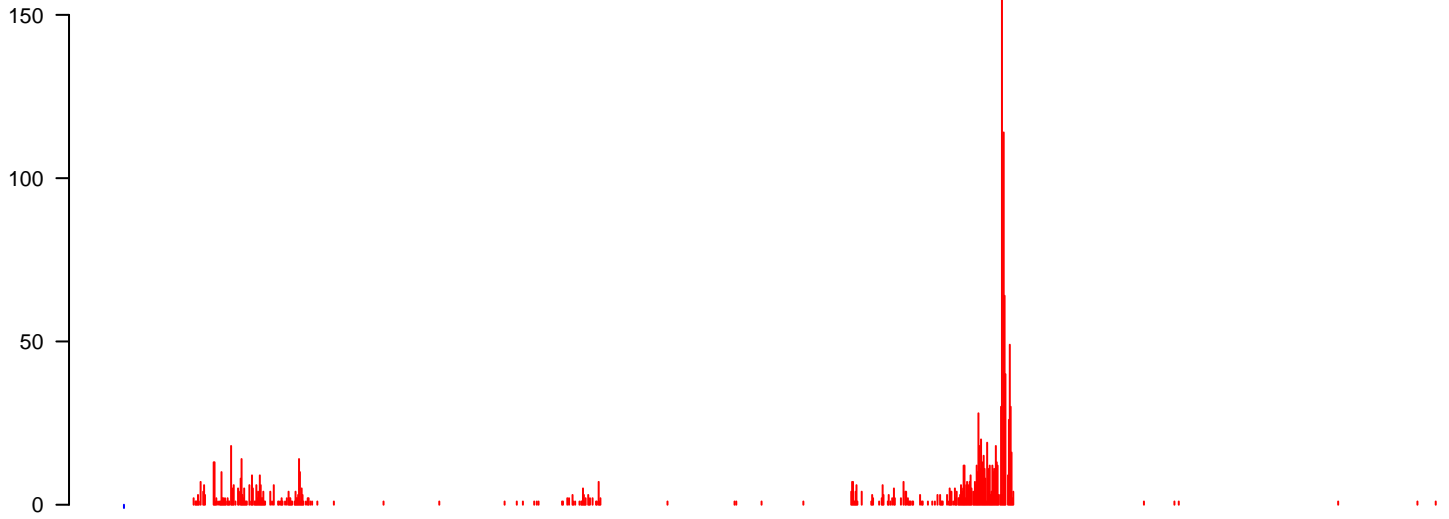
OSS norm. reads



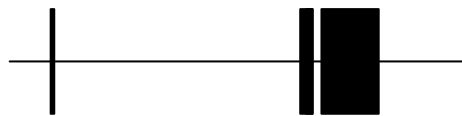
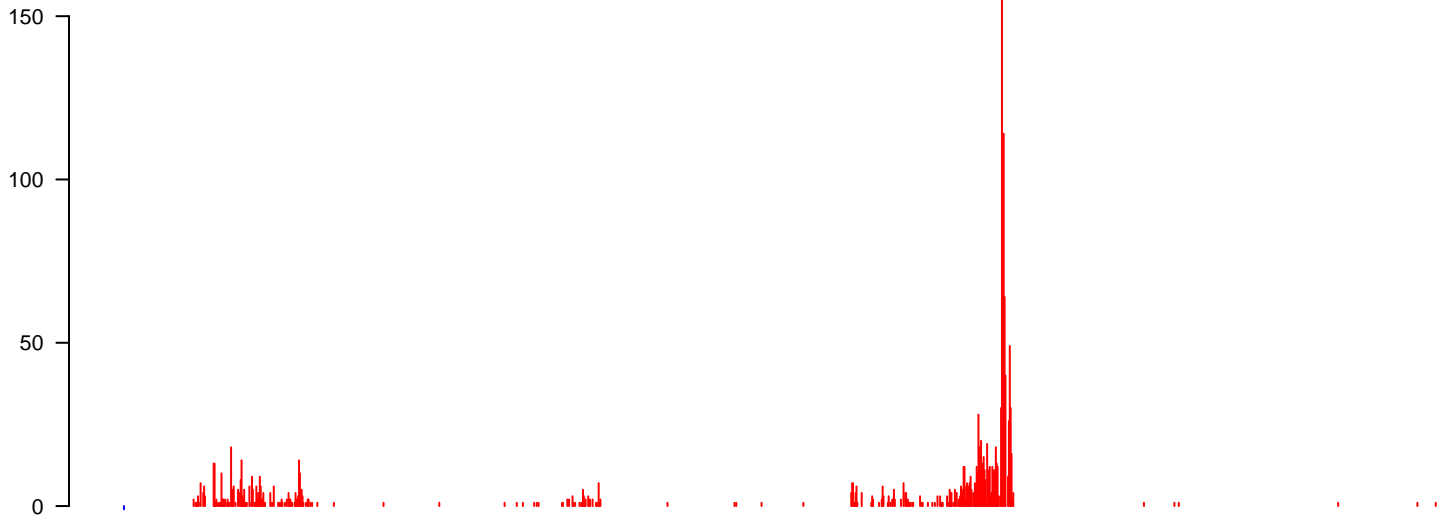
pUf68 3L – 1496850 1502589

OSS unique reads

CG2765 chr 2R : 20847361 – 20852606 –

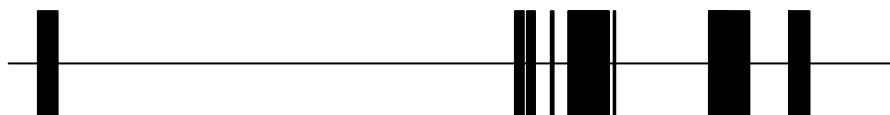
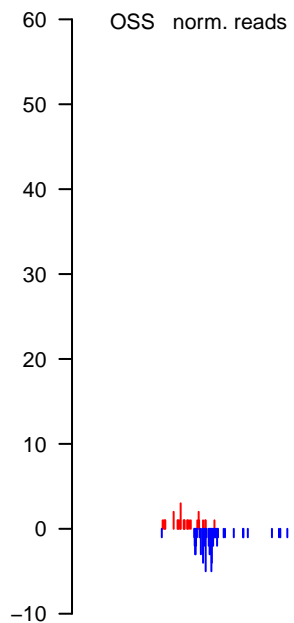
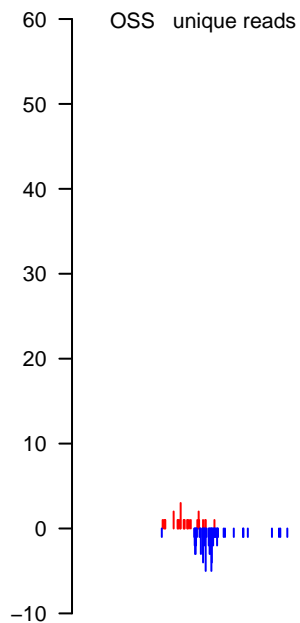


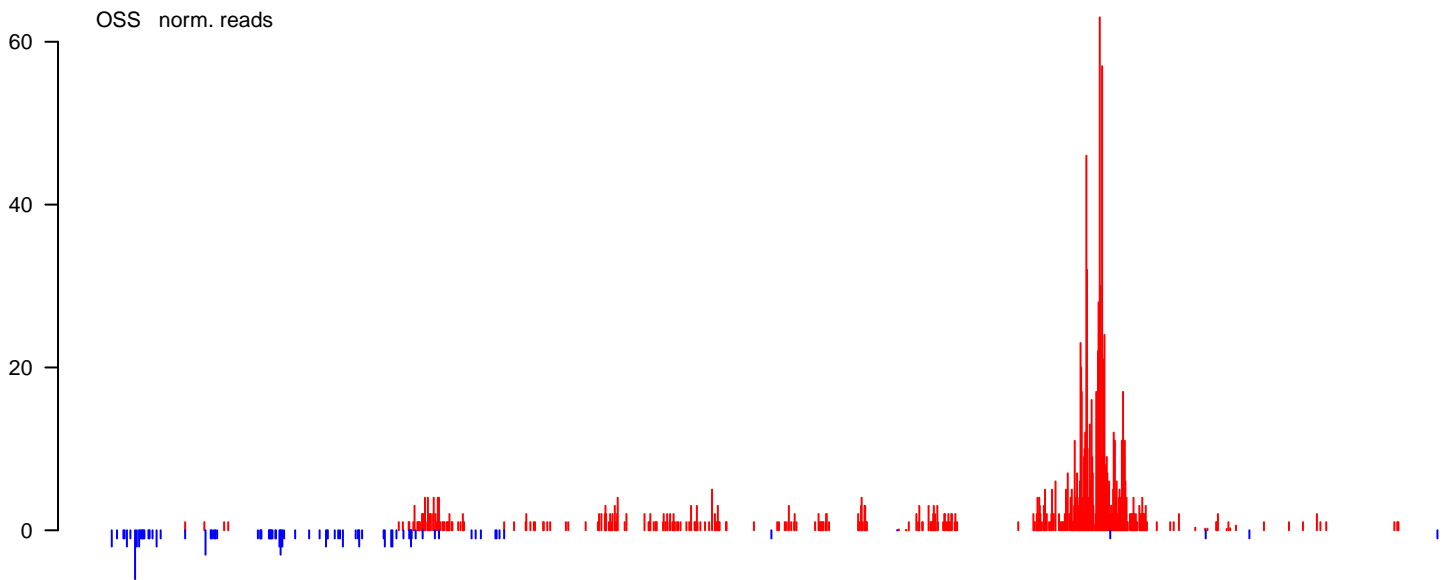
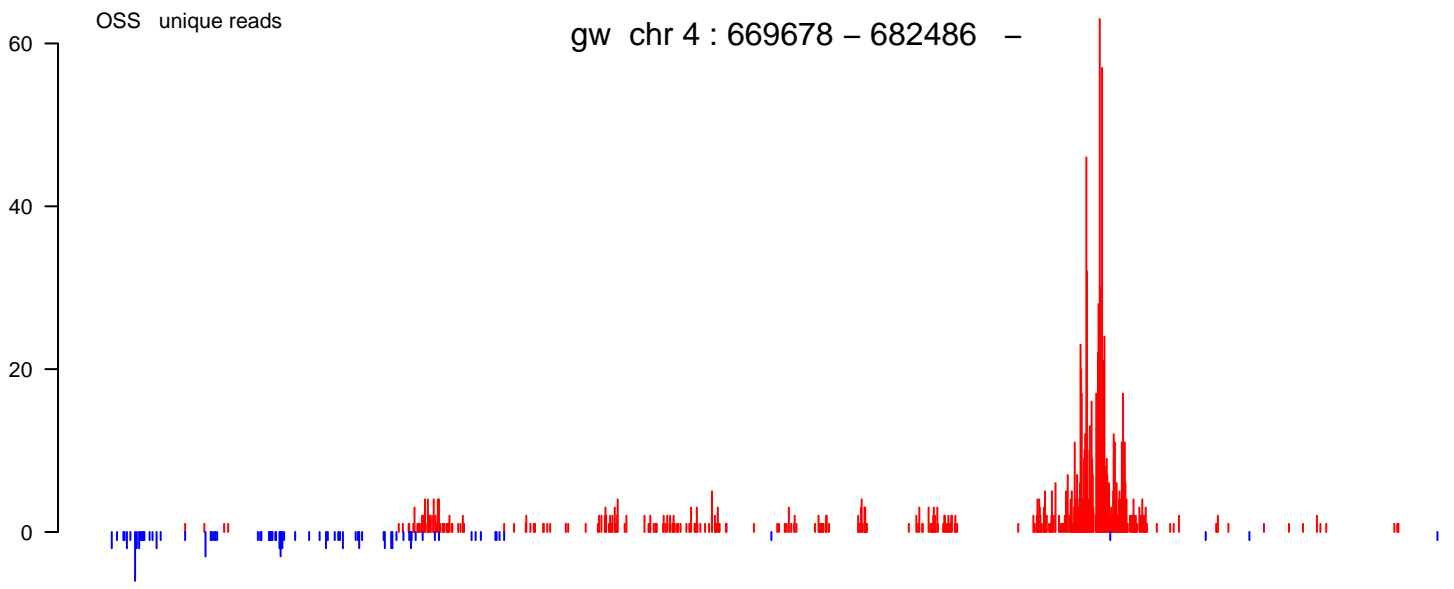
OSS norm. reads



CG2765 2R – 20847361 20852606

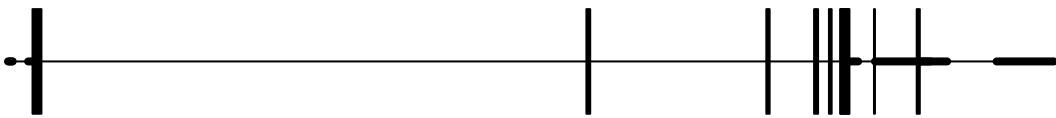
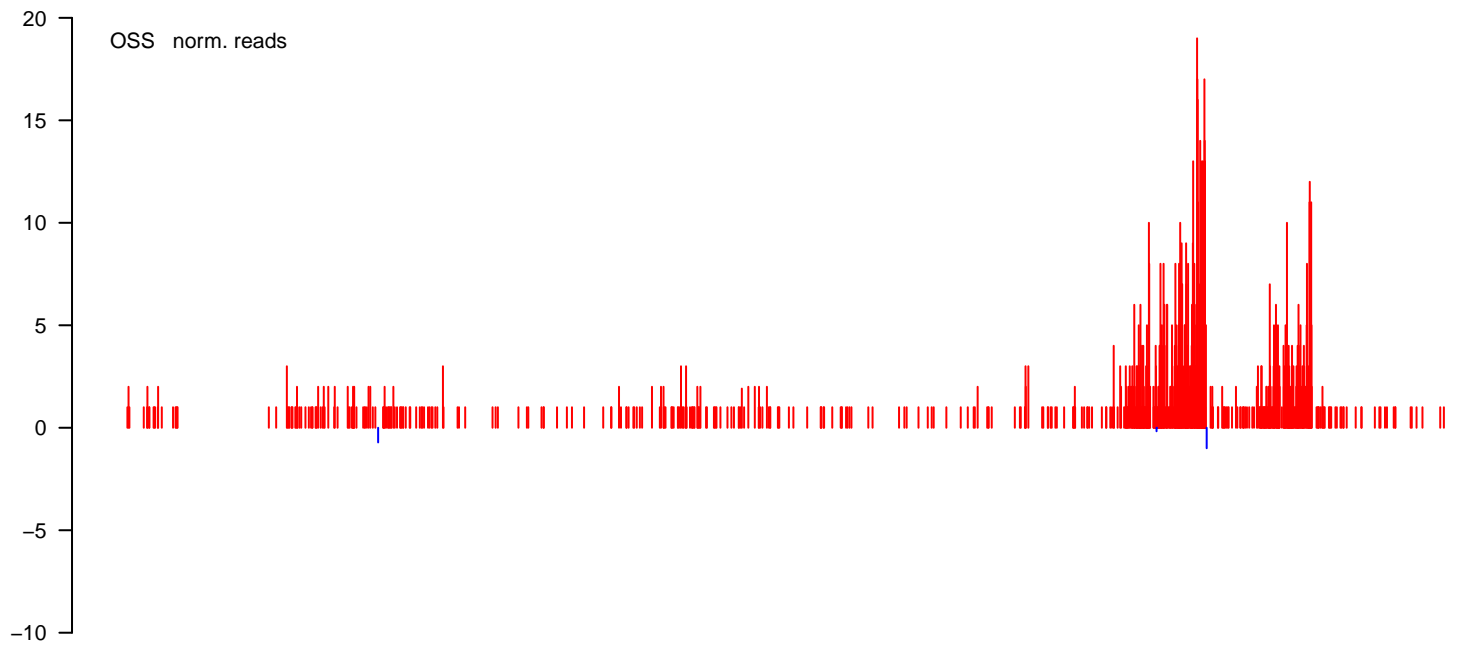
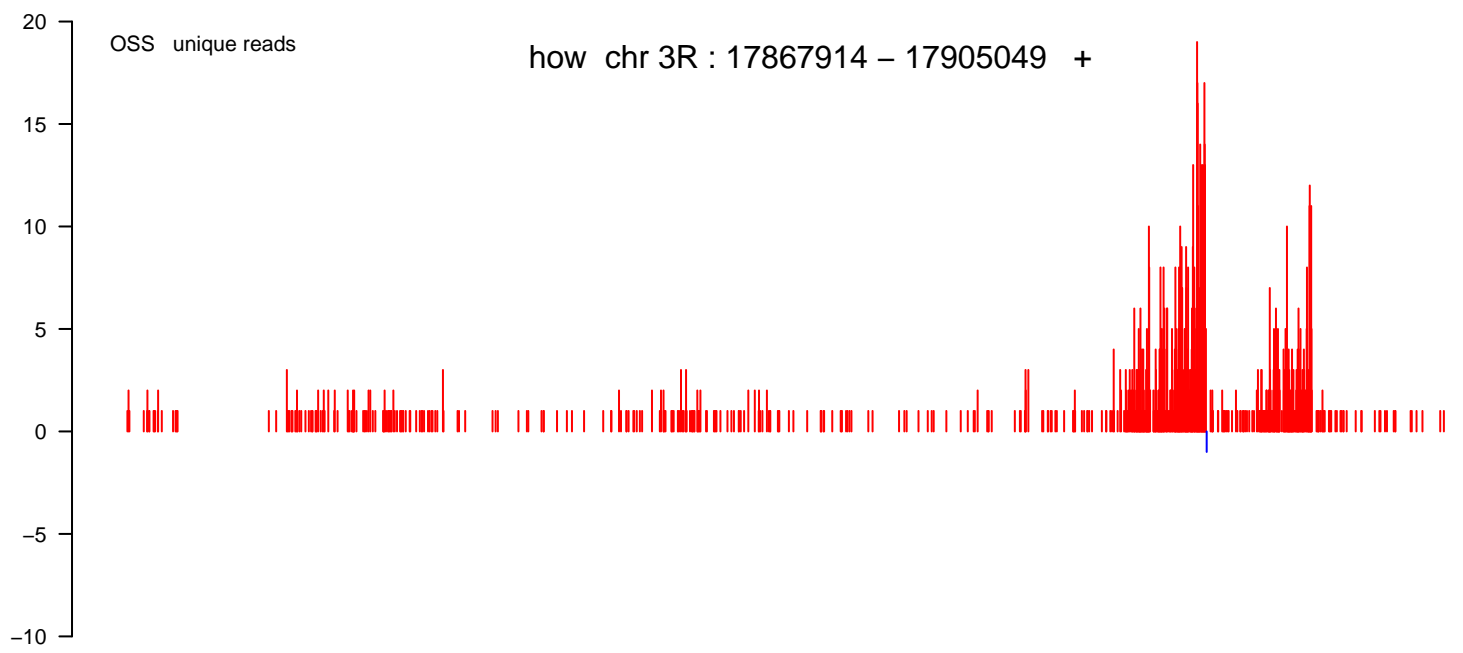
RhoGAP71E chr 3L : 15581980 – 15602231 +







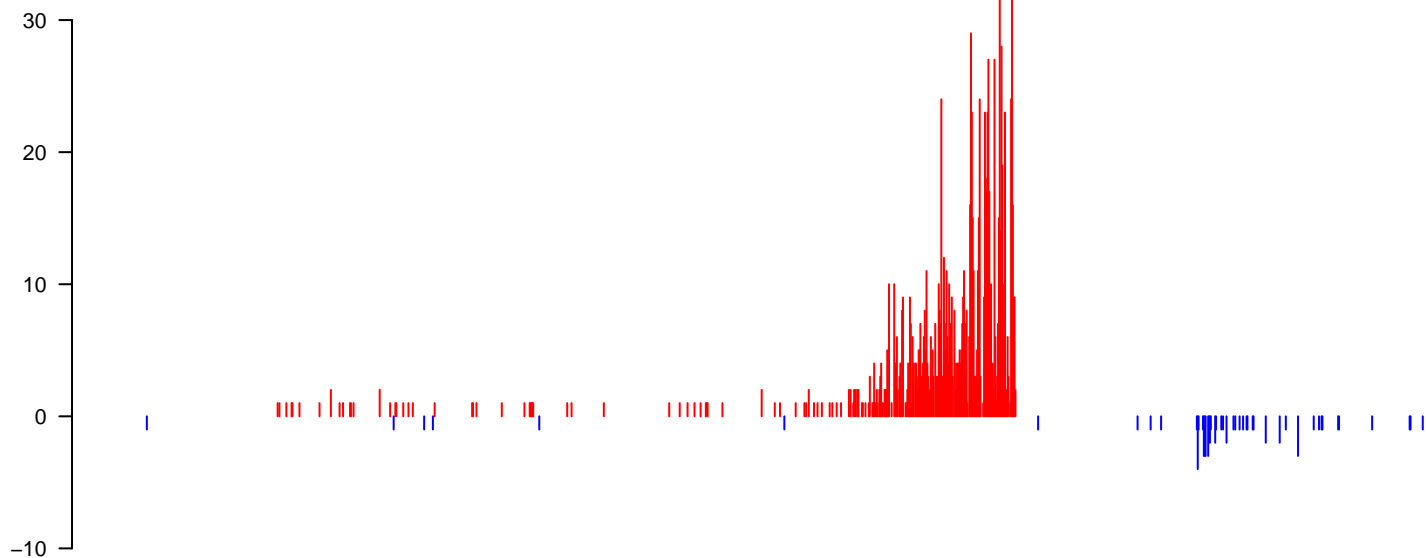
how chr 3R : 17867914 - 17905049 +



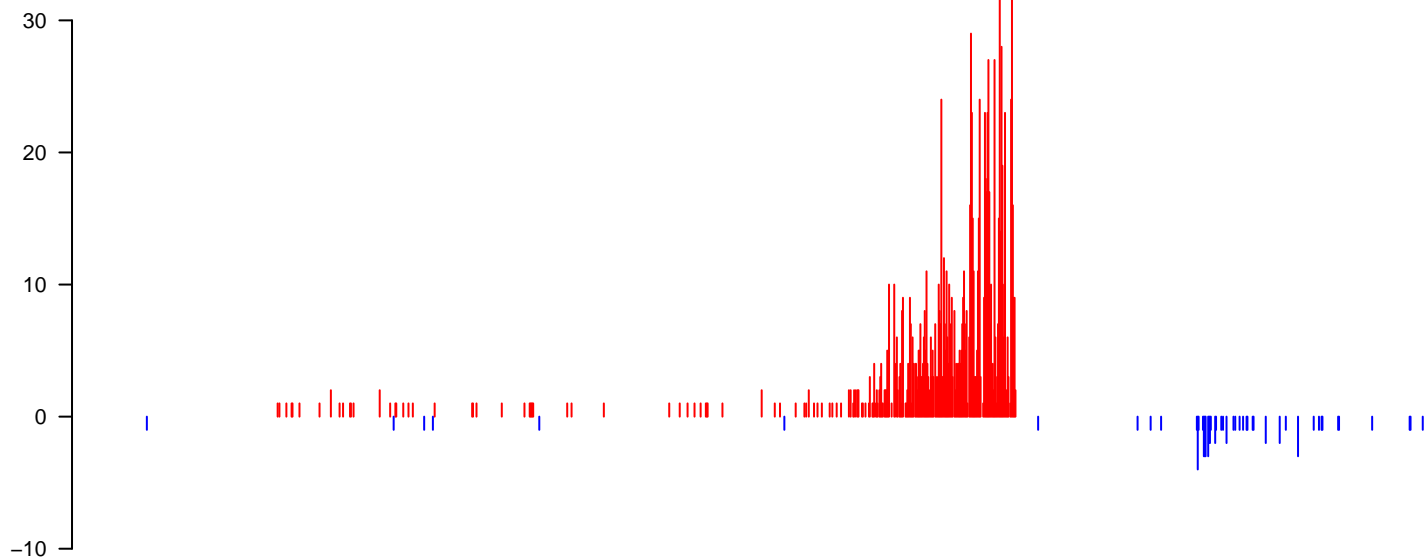
how 3R + 17867914 17905049

OSS unique reads

Smox chr X : 8031048 – 8036274 –



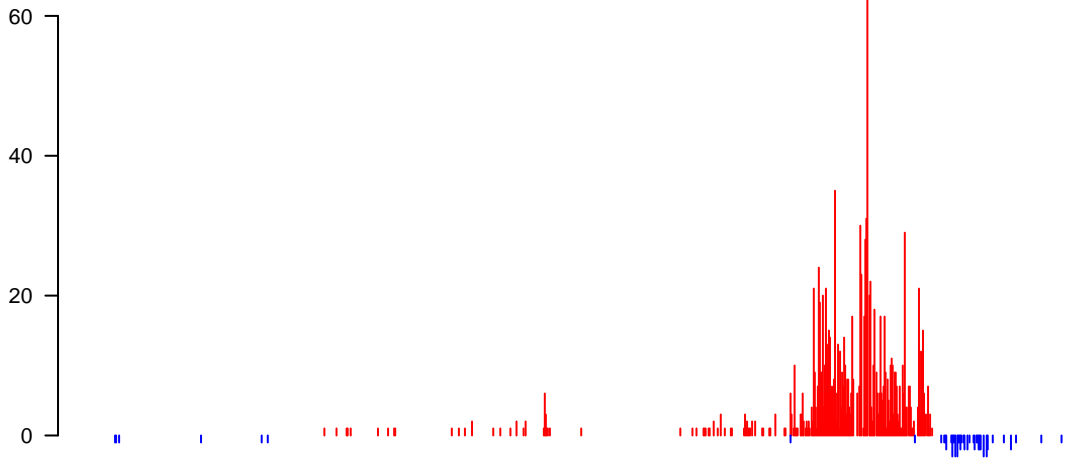
OSS norm. reads



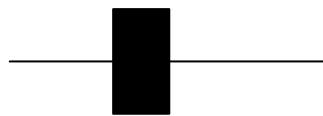
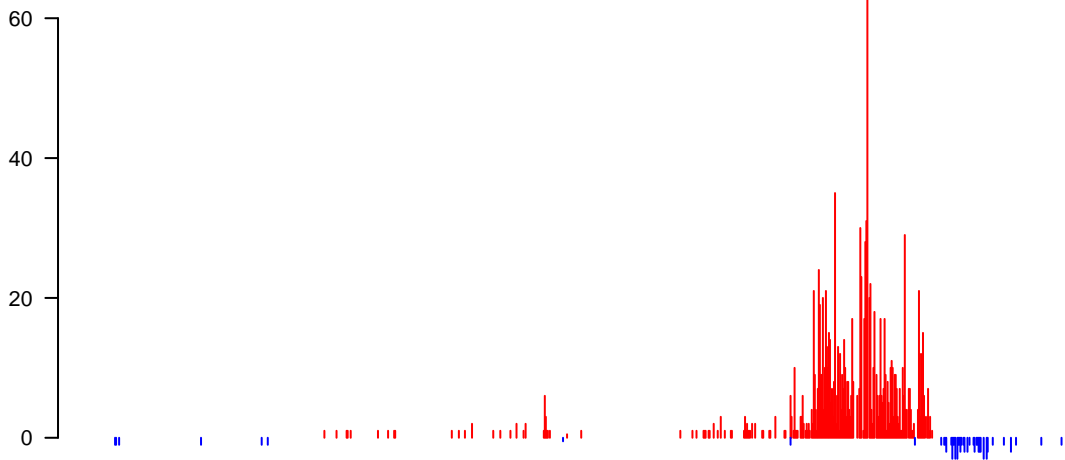
Smox X – 8031048 8036274

OSS unique reads

R chr 3L : 1859102 - 1862234 -



OSS norm. reads



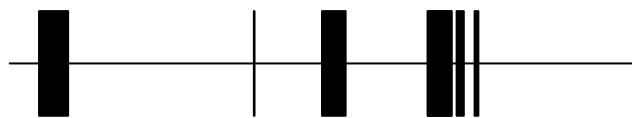
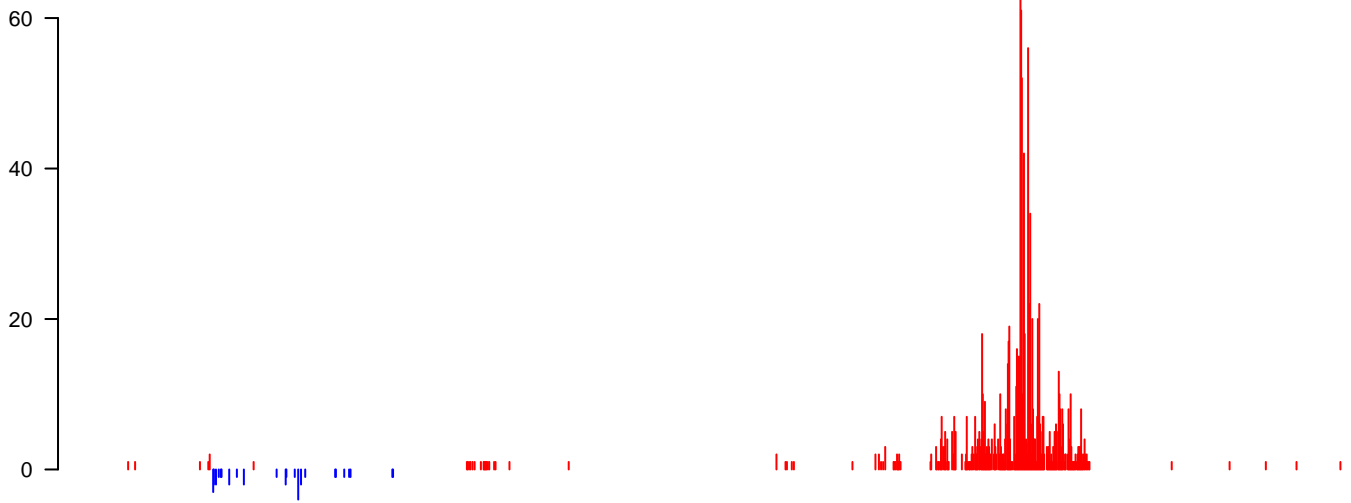
R 3L - 1859102 1862234

OSS unique reads

fax chr 3L : 16395891 – 16404939 –

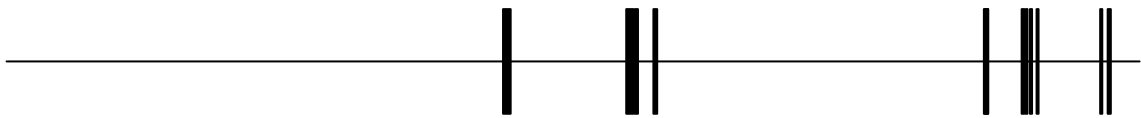
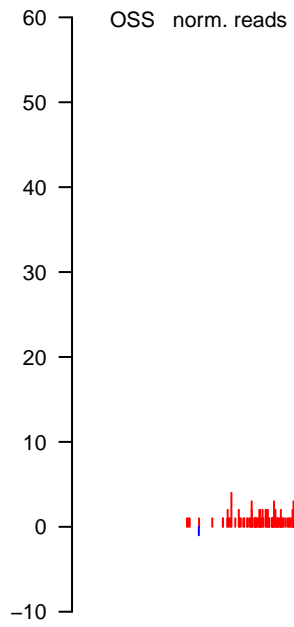
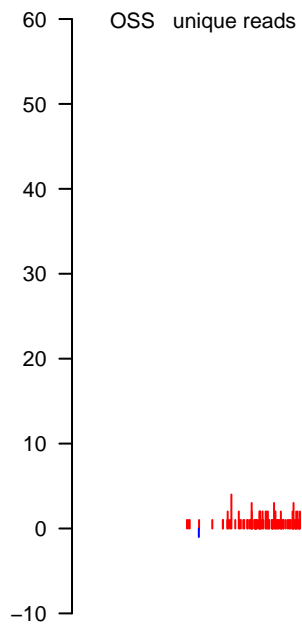


OSS norm. reads

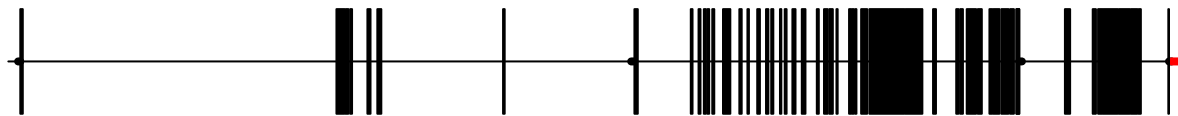
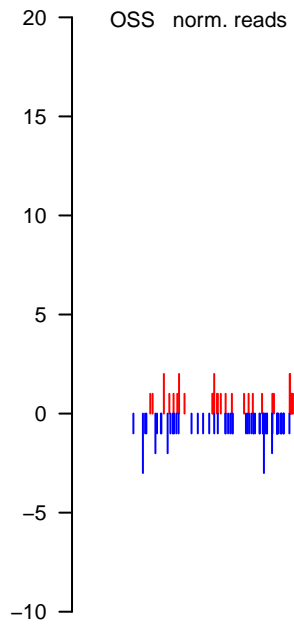
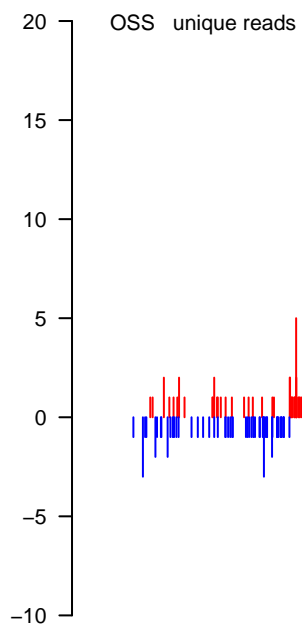


fax 3L – 16395891 16404939

CG30463 chr 2R : 12560729 – 12618889 –

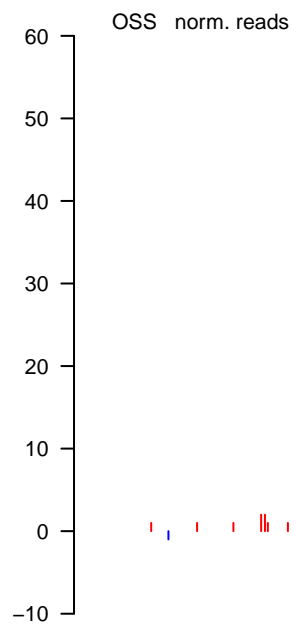
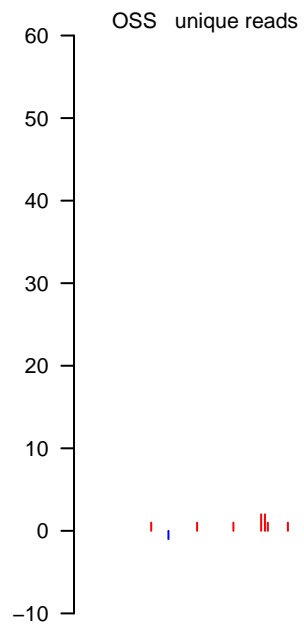


trol chr X : 2364491 – 2439423 –



trol X – 2364491 2439423

CG33116 chr 2L : 19533473 - 19537365 +



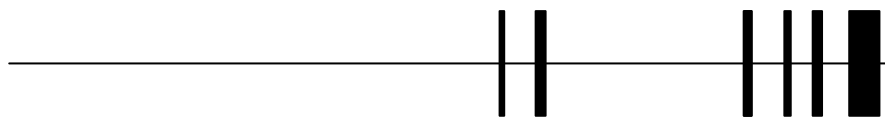
CG33116 2L + 19533473 19537365

grp chr 2L : 16680046 – 16699945 +

OSS unique reads



OSS norm. reads

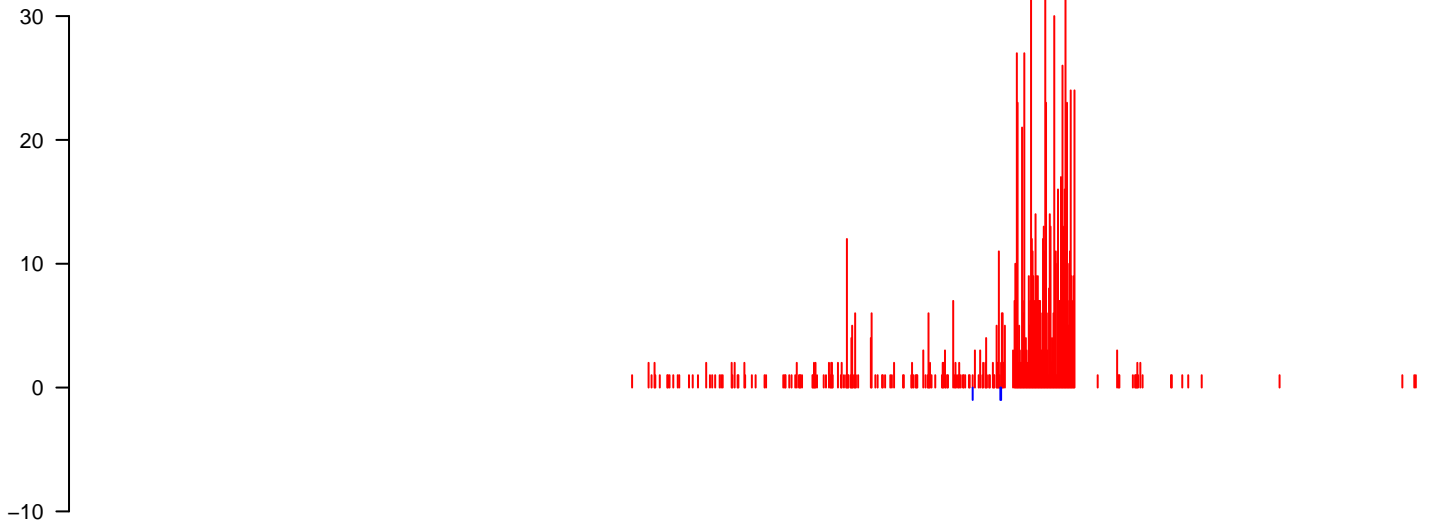


grp 2L + 16680046 16699945

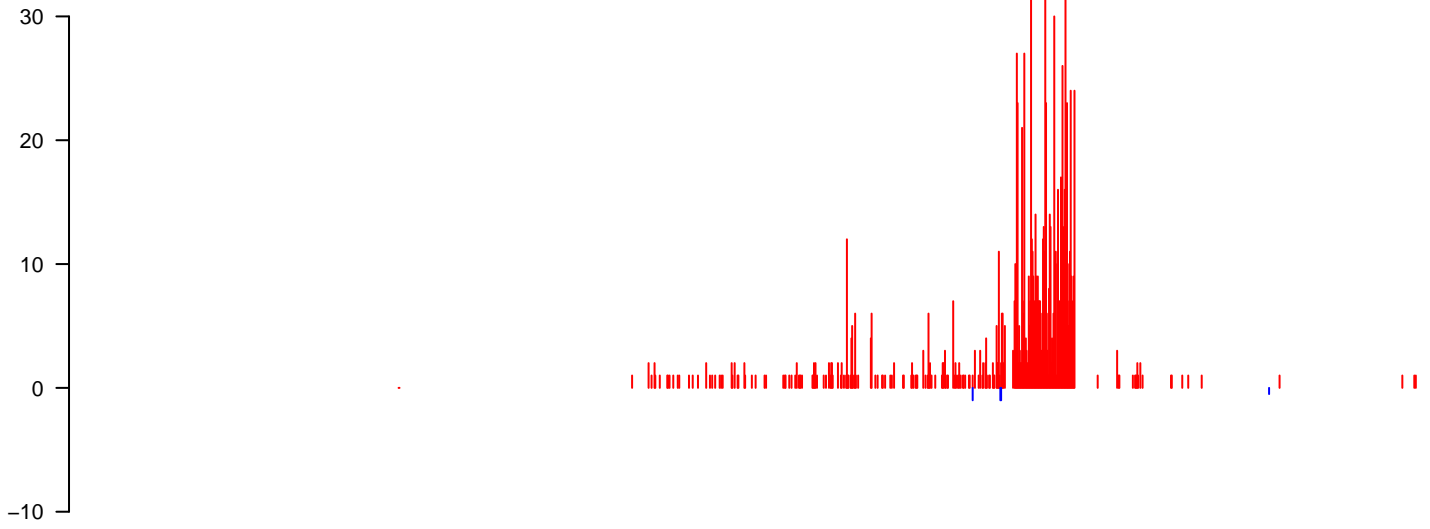


OSS unique reads

NAT1 chr 2R : 8803502 – 8811242 +



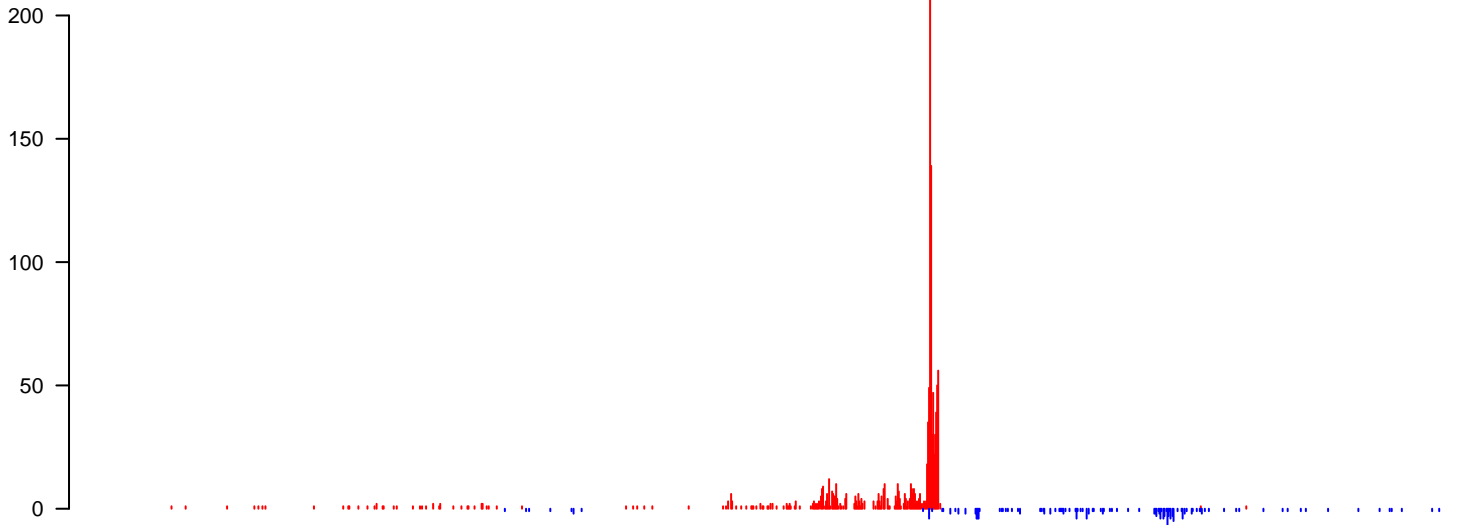
OSS norm. reads



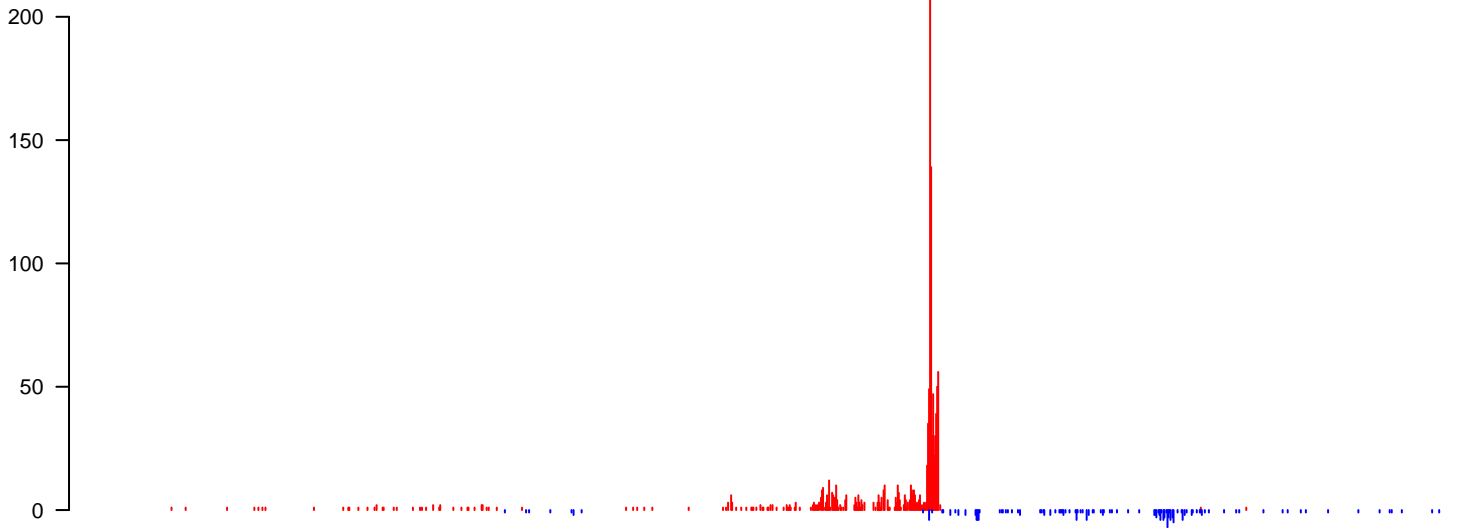
NAT1 2R + 8803502 8811242

OSS unique reads

CG12099 chr 3L : 1555308 – 1558454 –

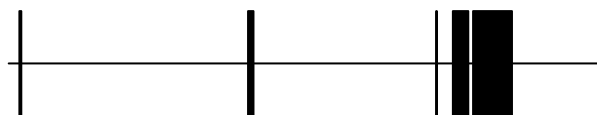
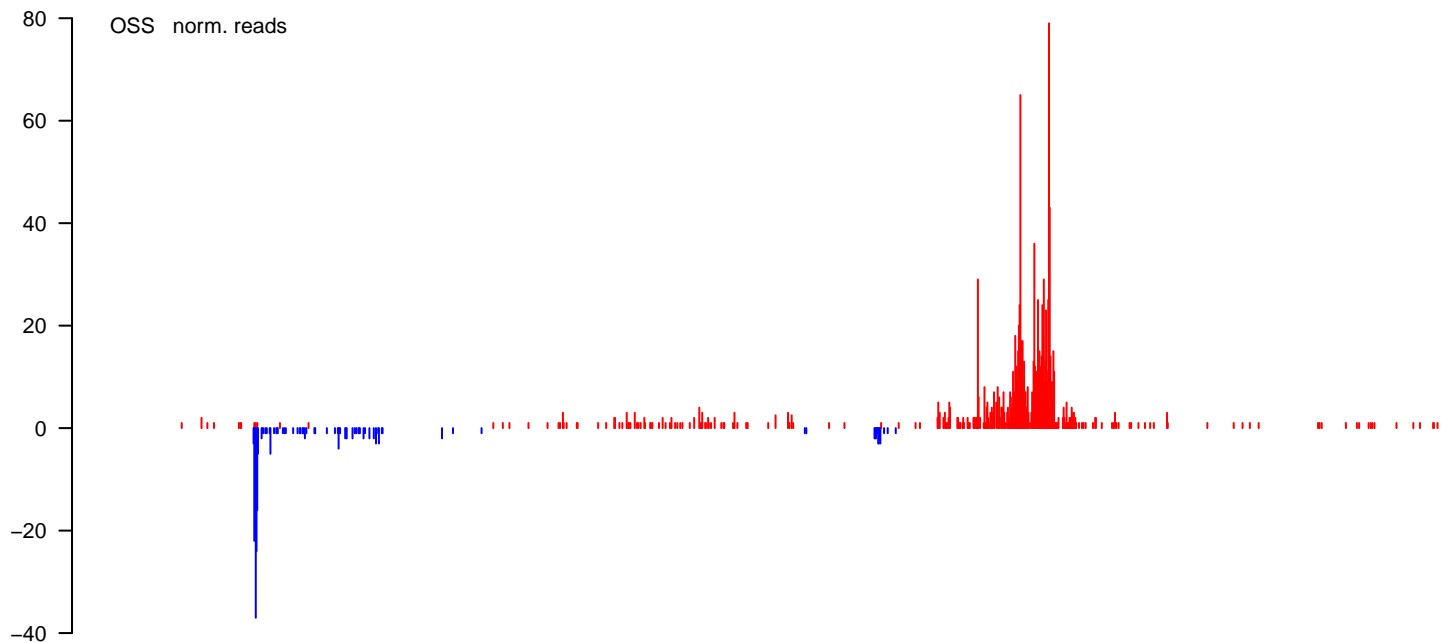
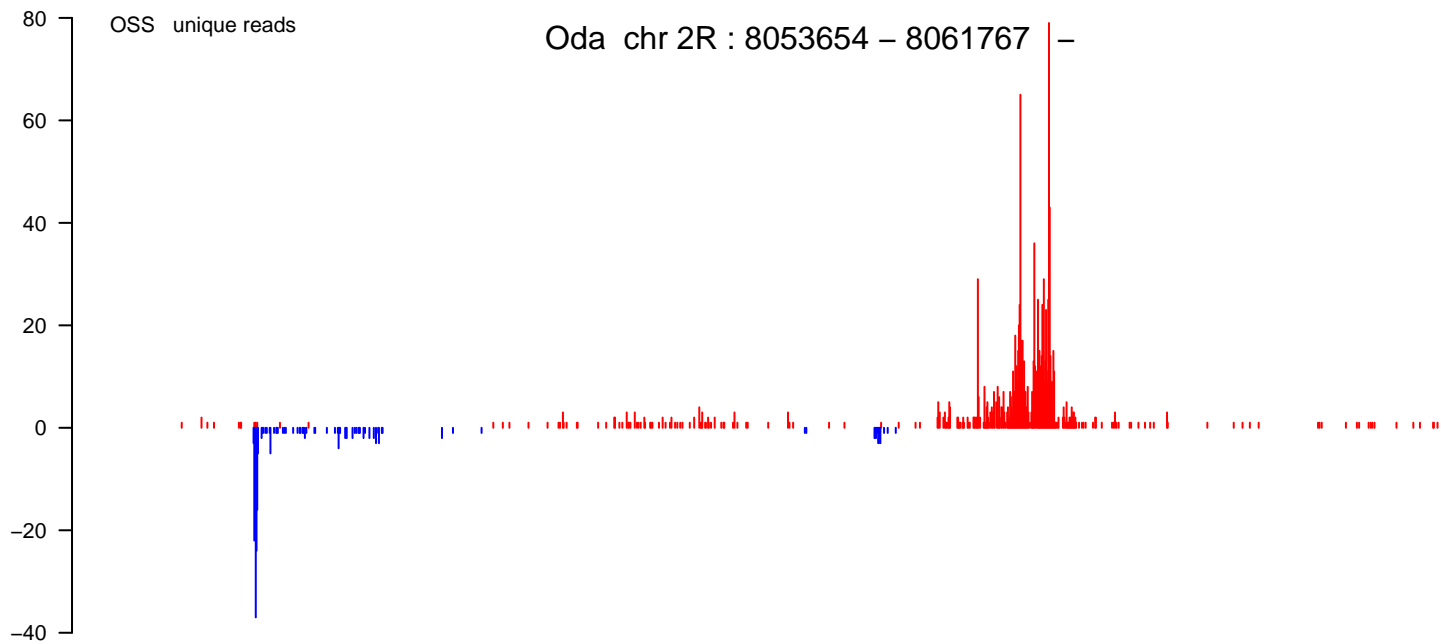


OSS norm. reads



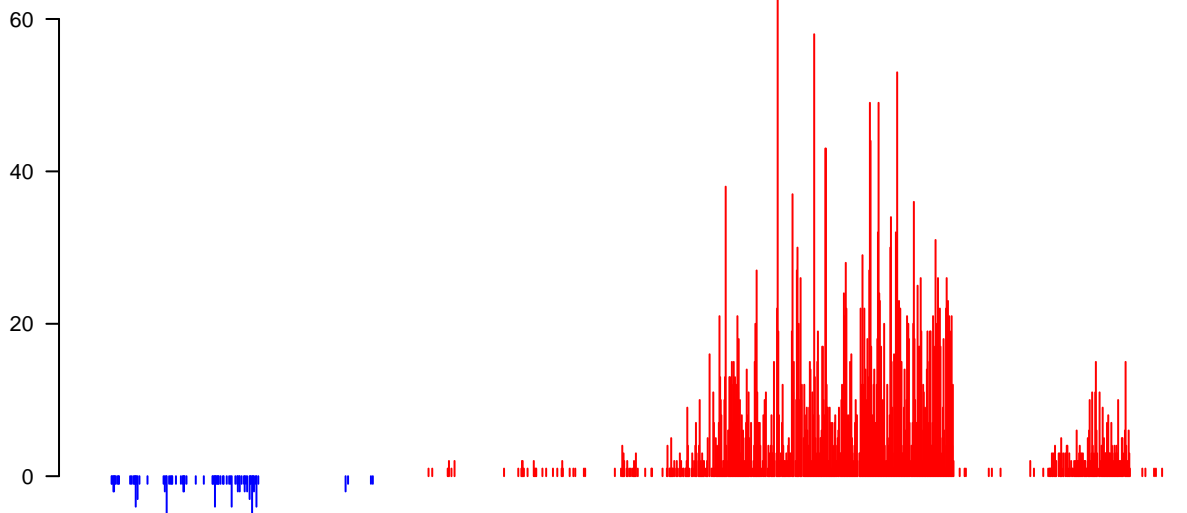
CG12099 3L – 1555308 1558454

Oda chr 2R : 8053654 – 8061767 –

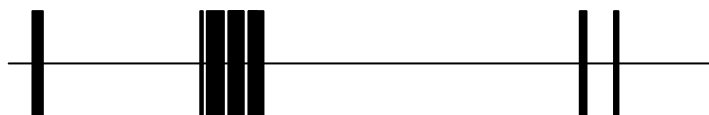
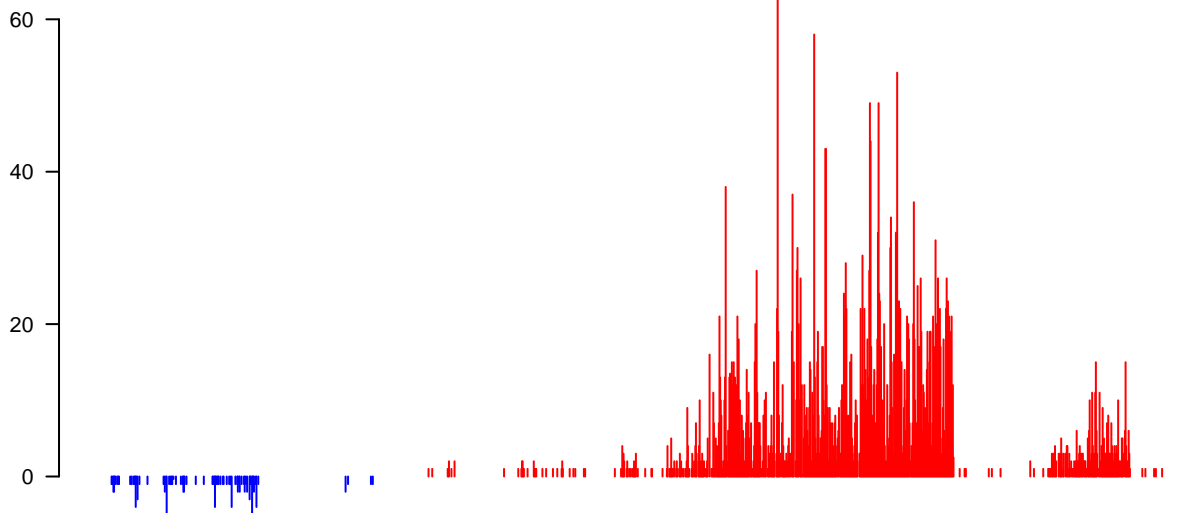


OSS unique reads

sqd chr 3R : 9460576 – 9472026 –



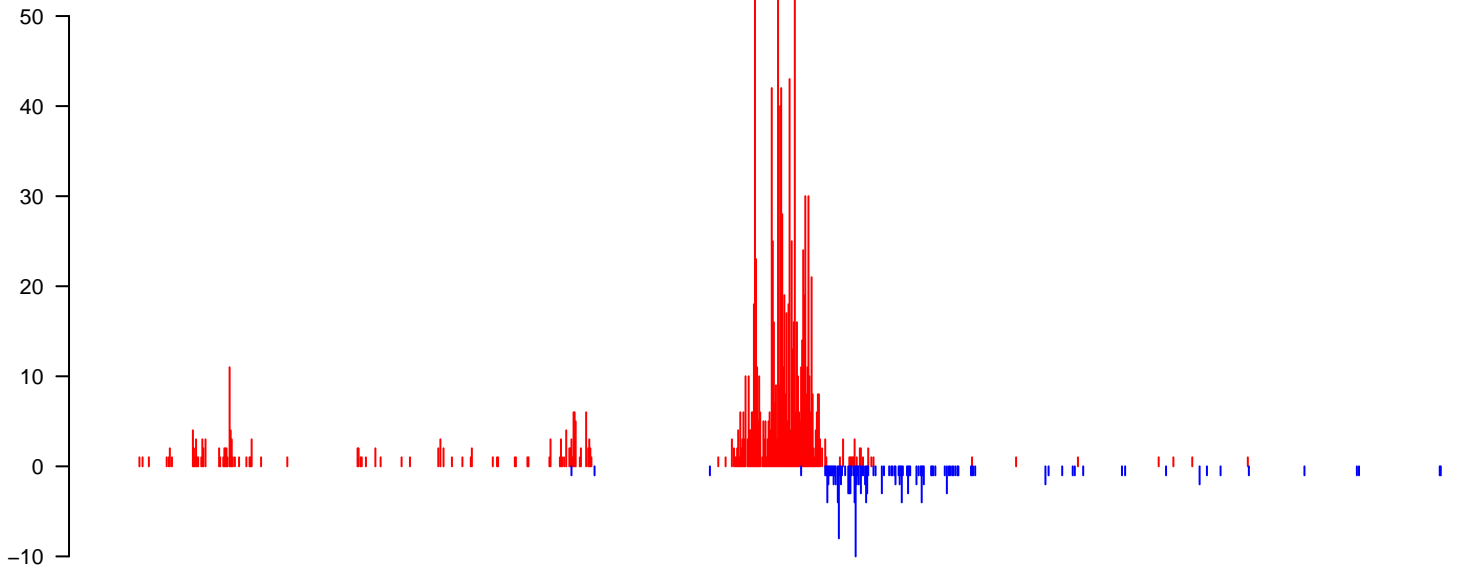
OSS norm. reads



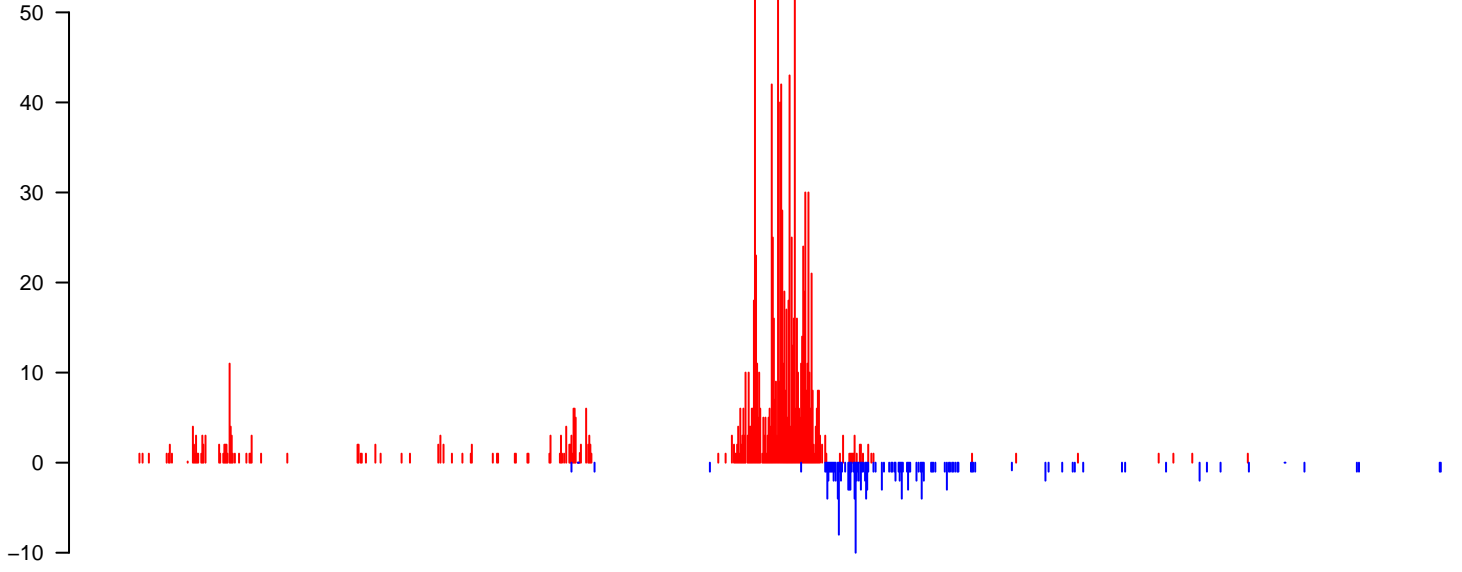
sqd 3R – 9460576 9472026

OSS unique reads

CG11750 chr X : 11253270 – 11255933 +

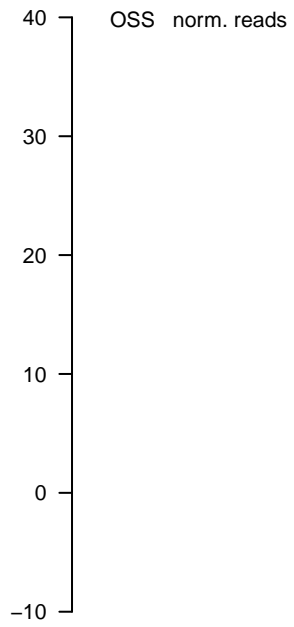
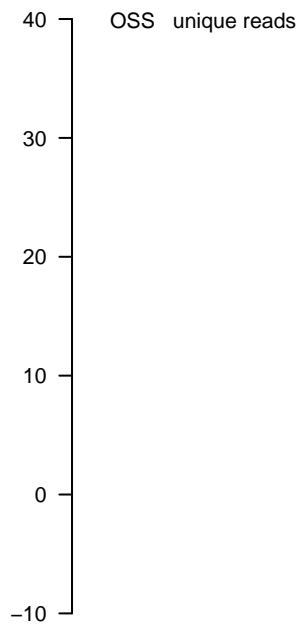


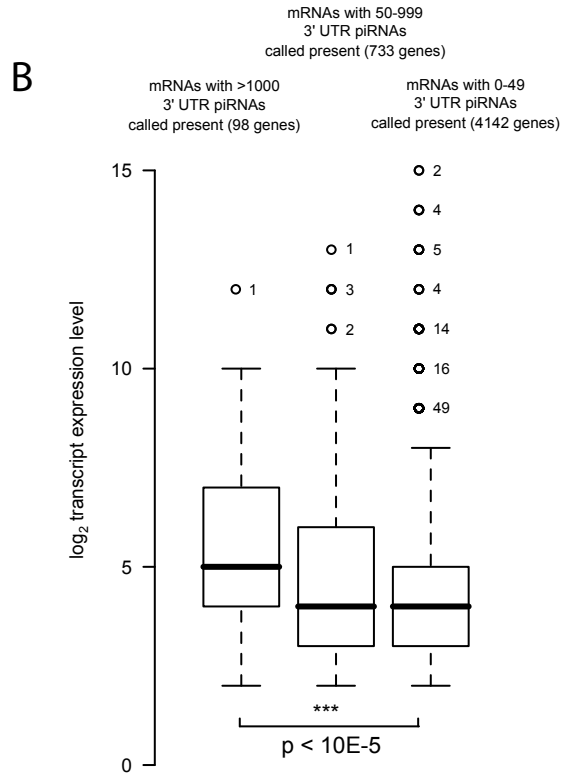
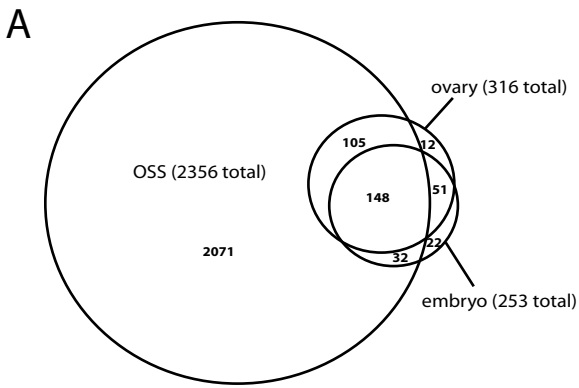
OSS norm. reads



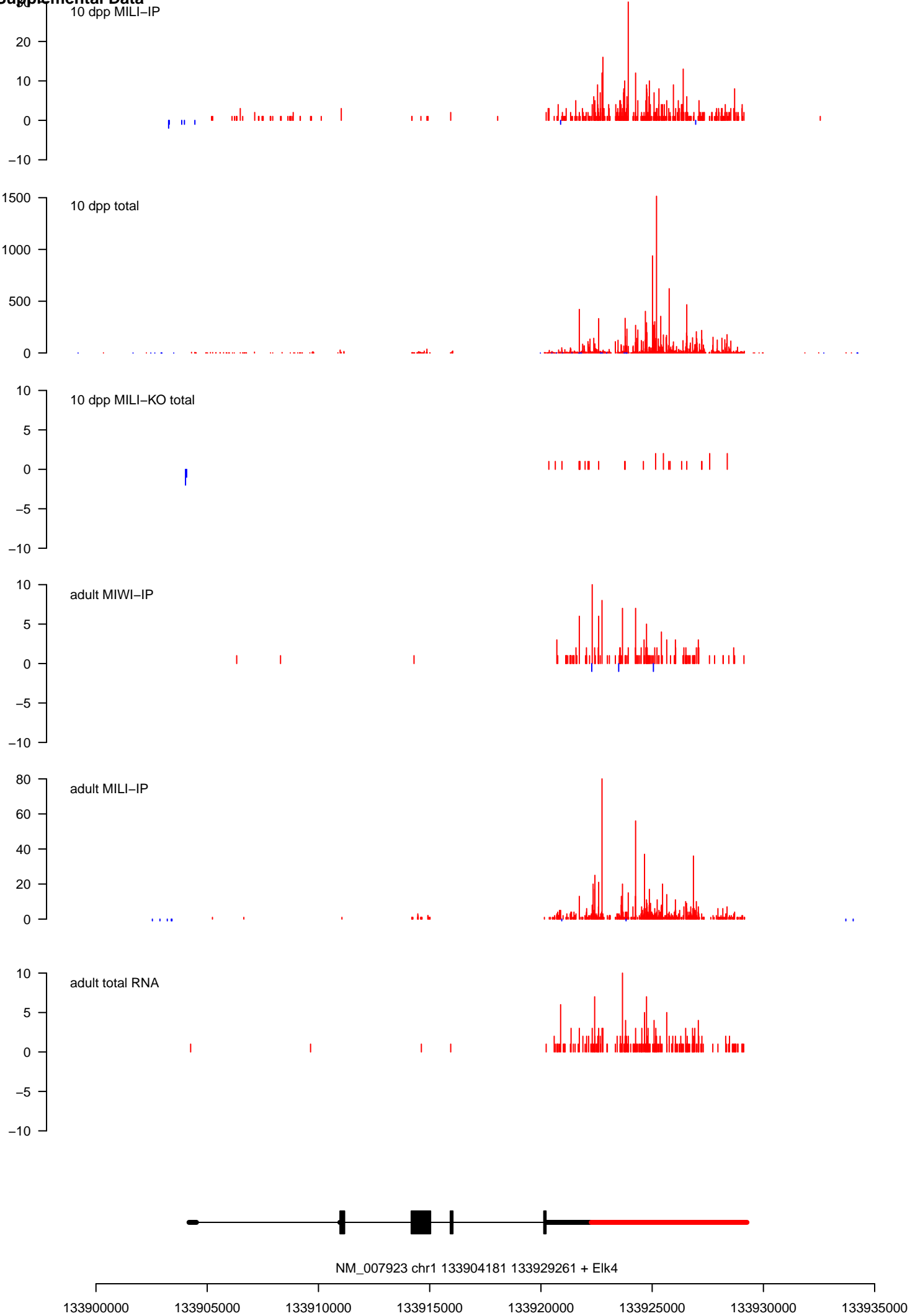
CG11750 X + 11253270 11255933

CG12290 chr 3R : 22055974 – 22060473 +

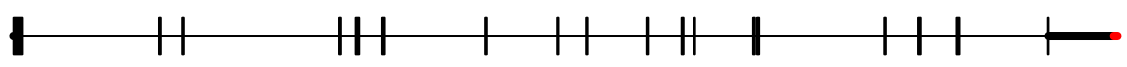
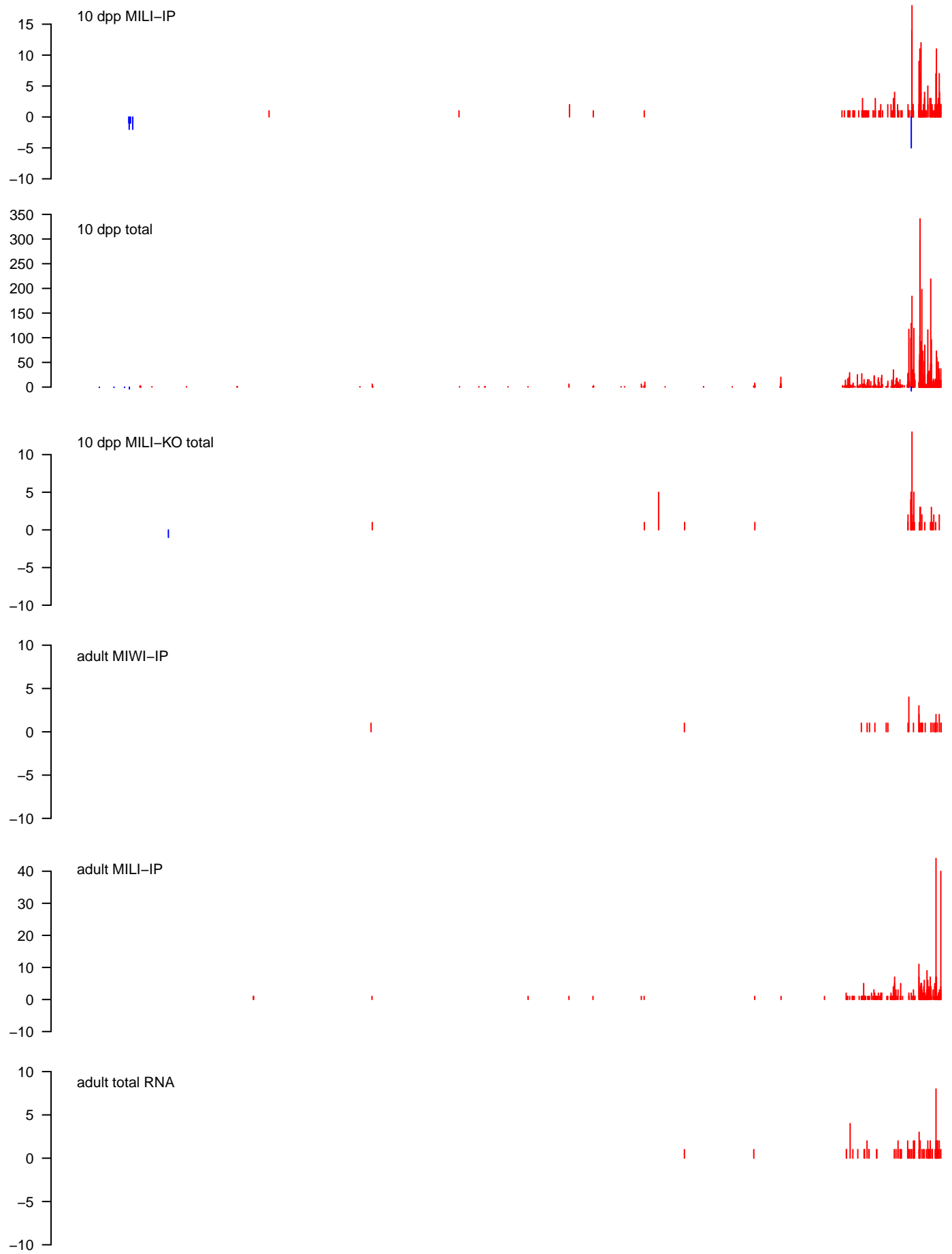




# Supplemental Data

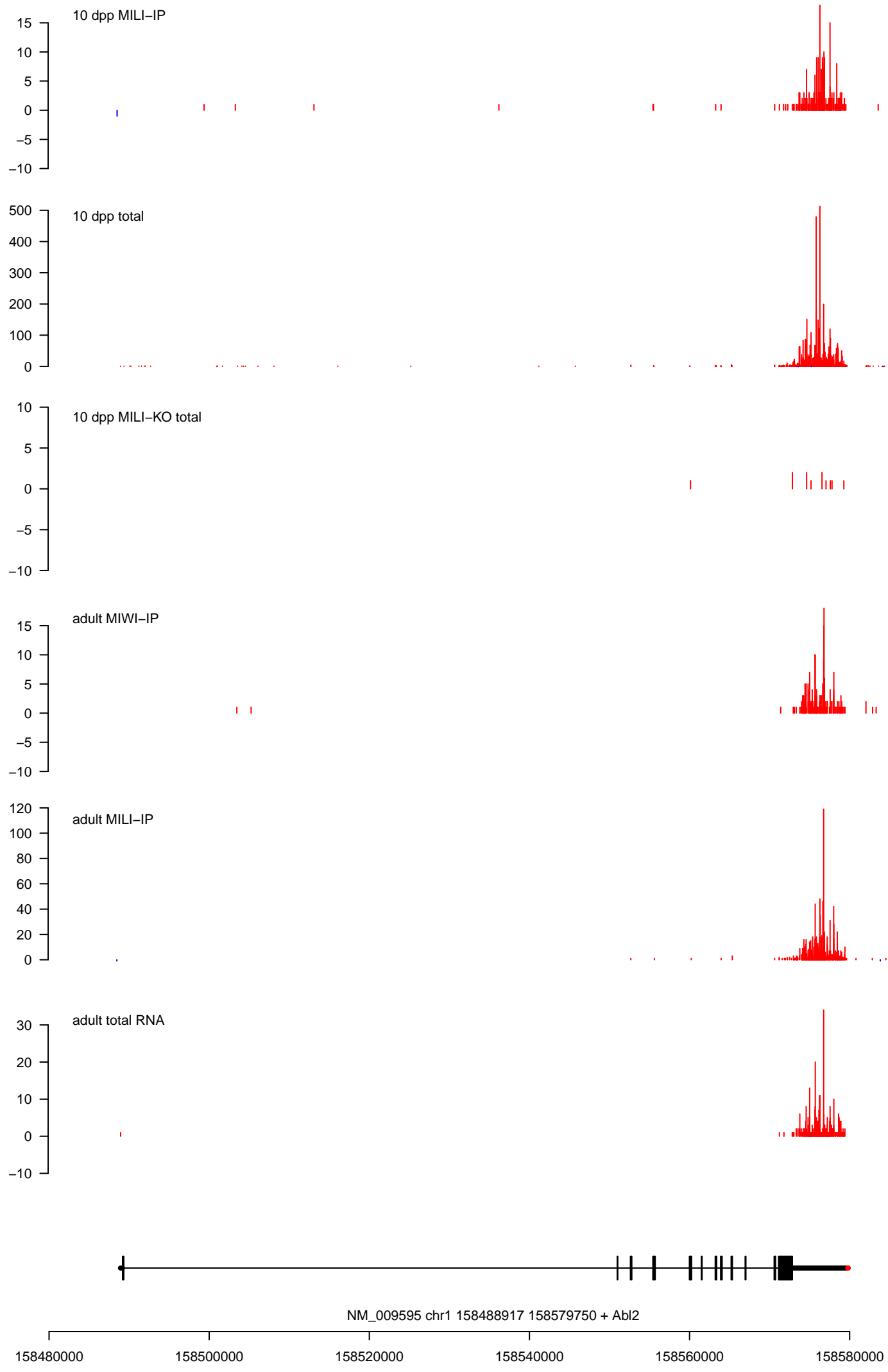


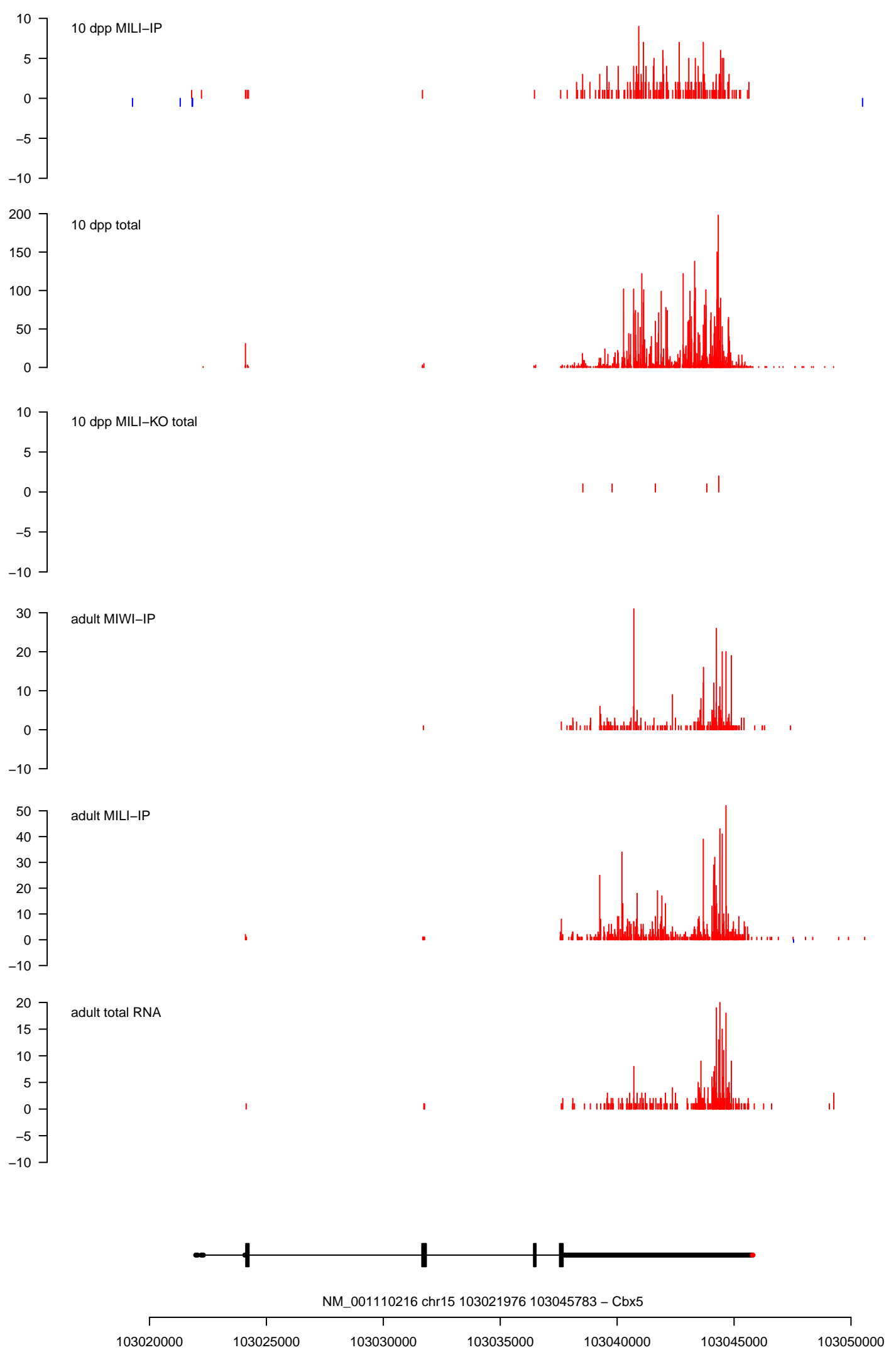


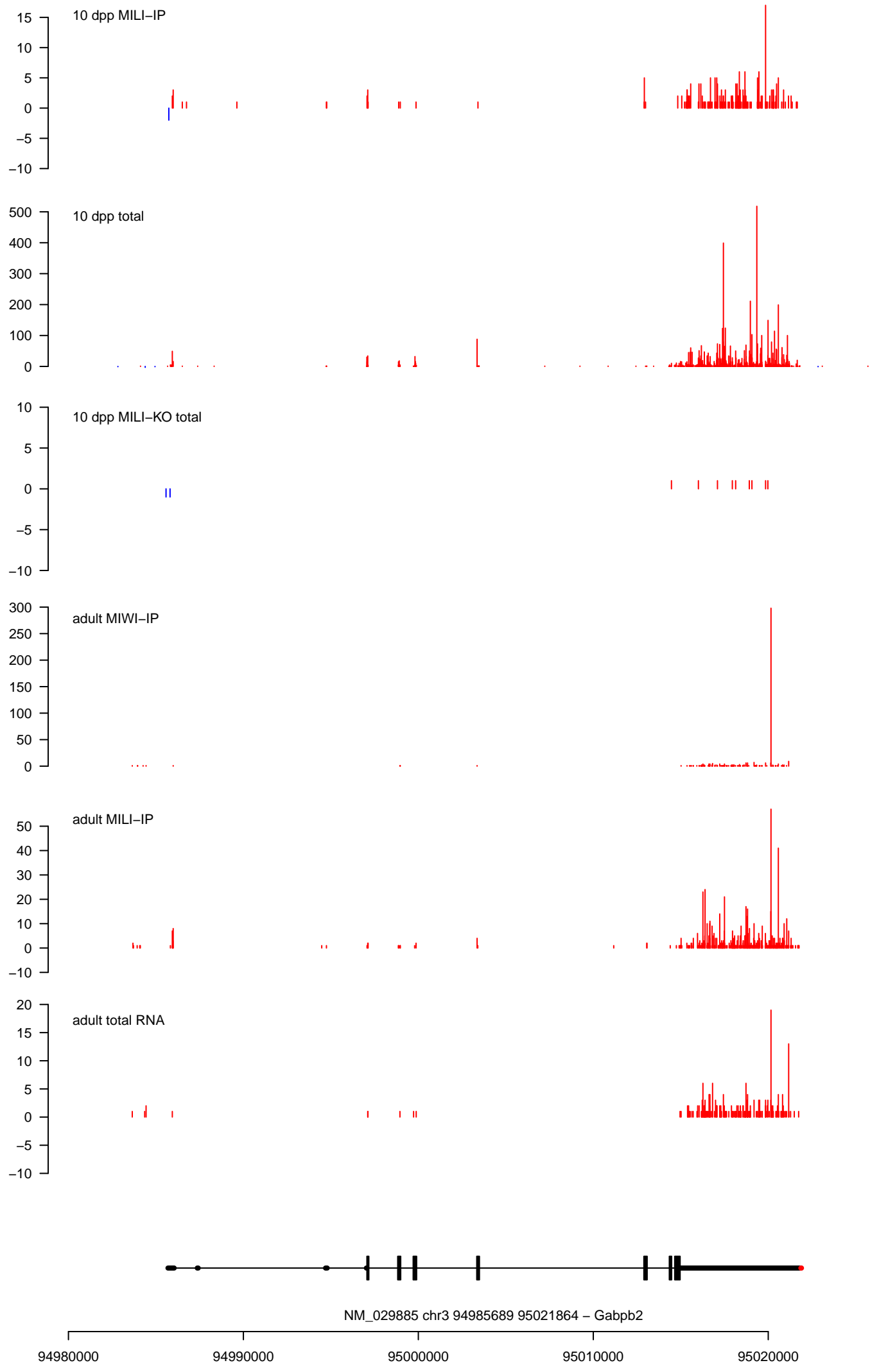


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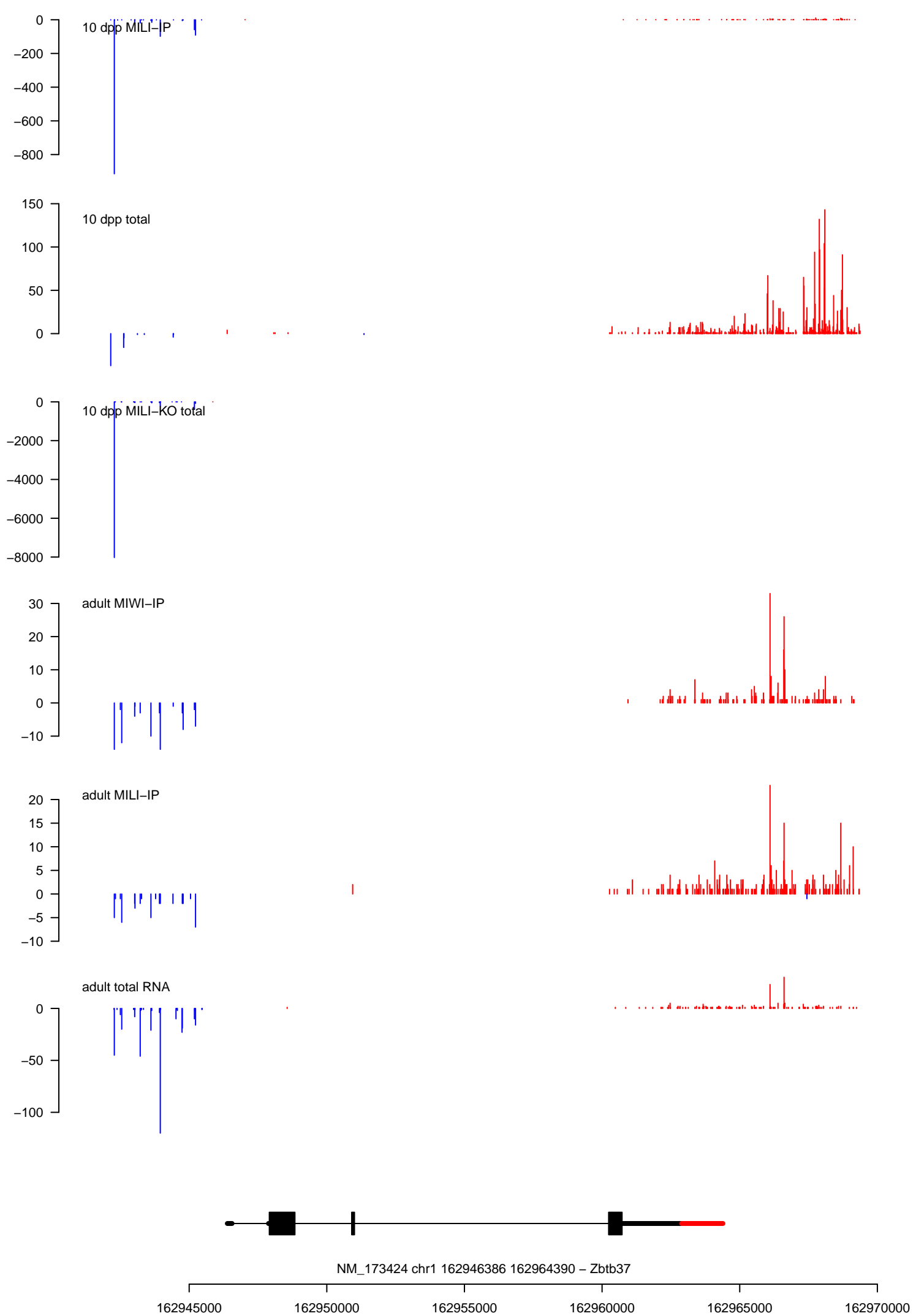
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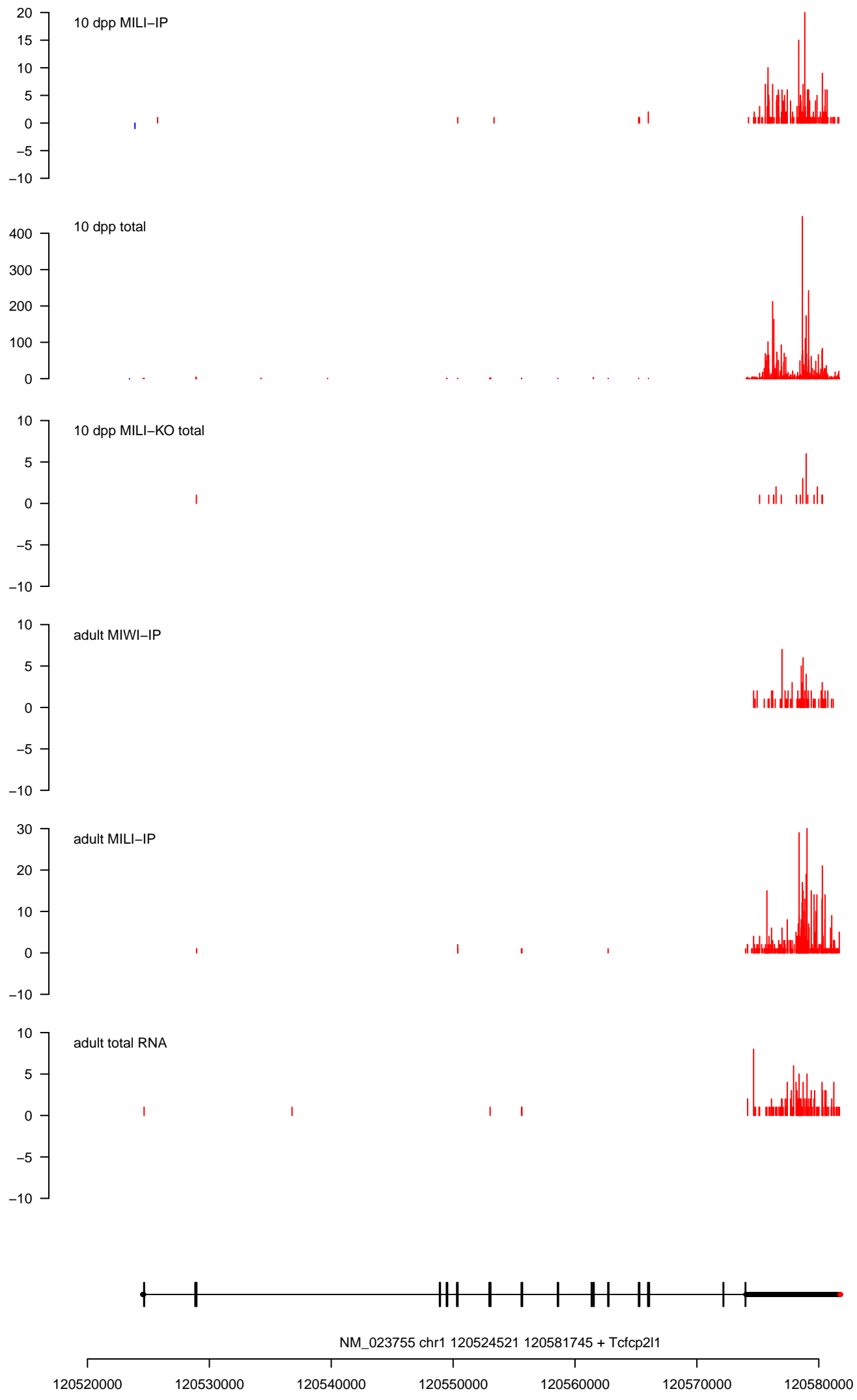
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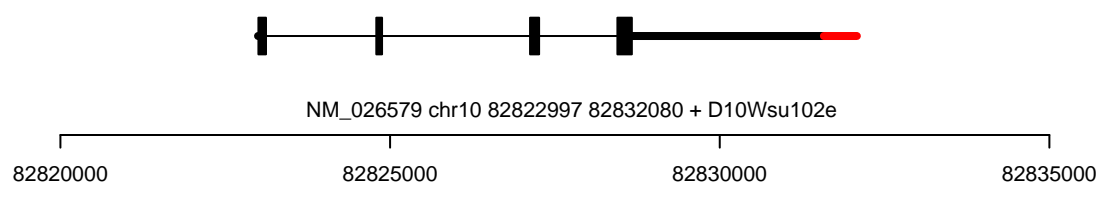
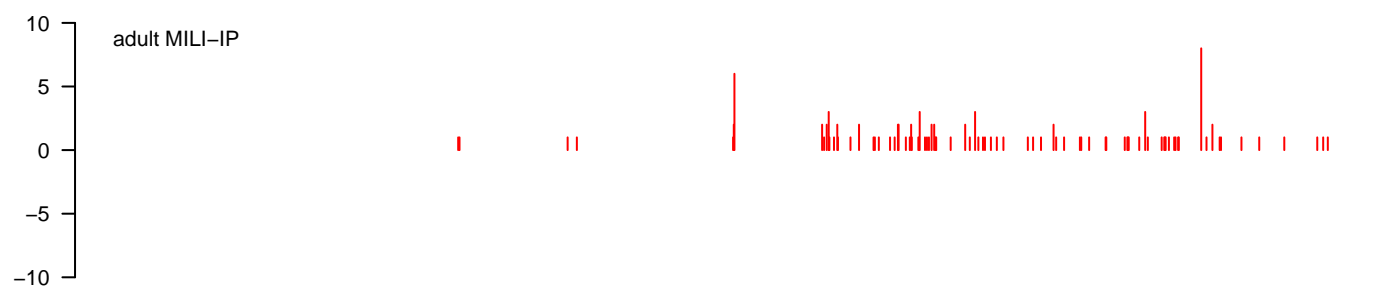
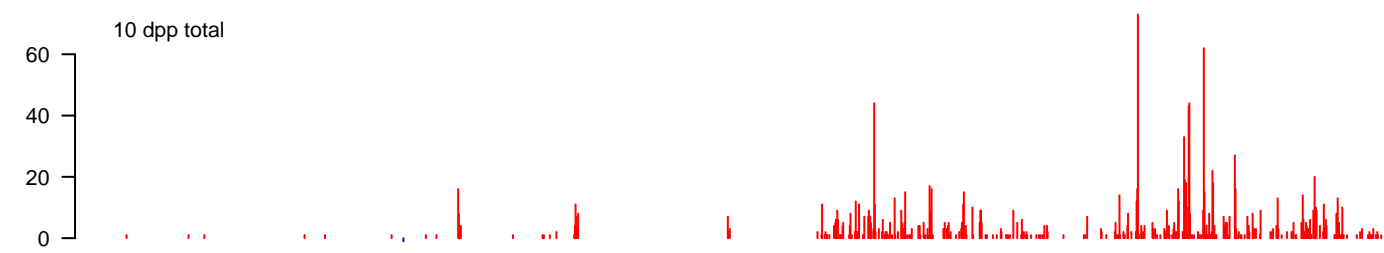
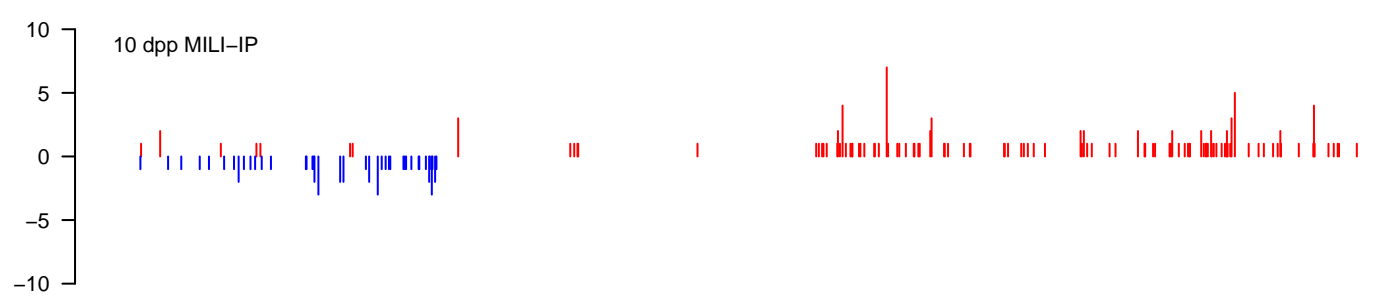
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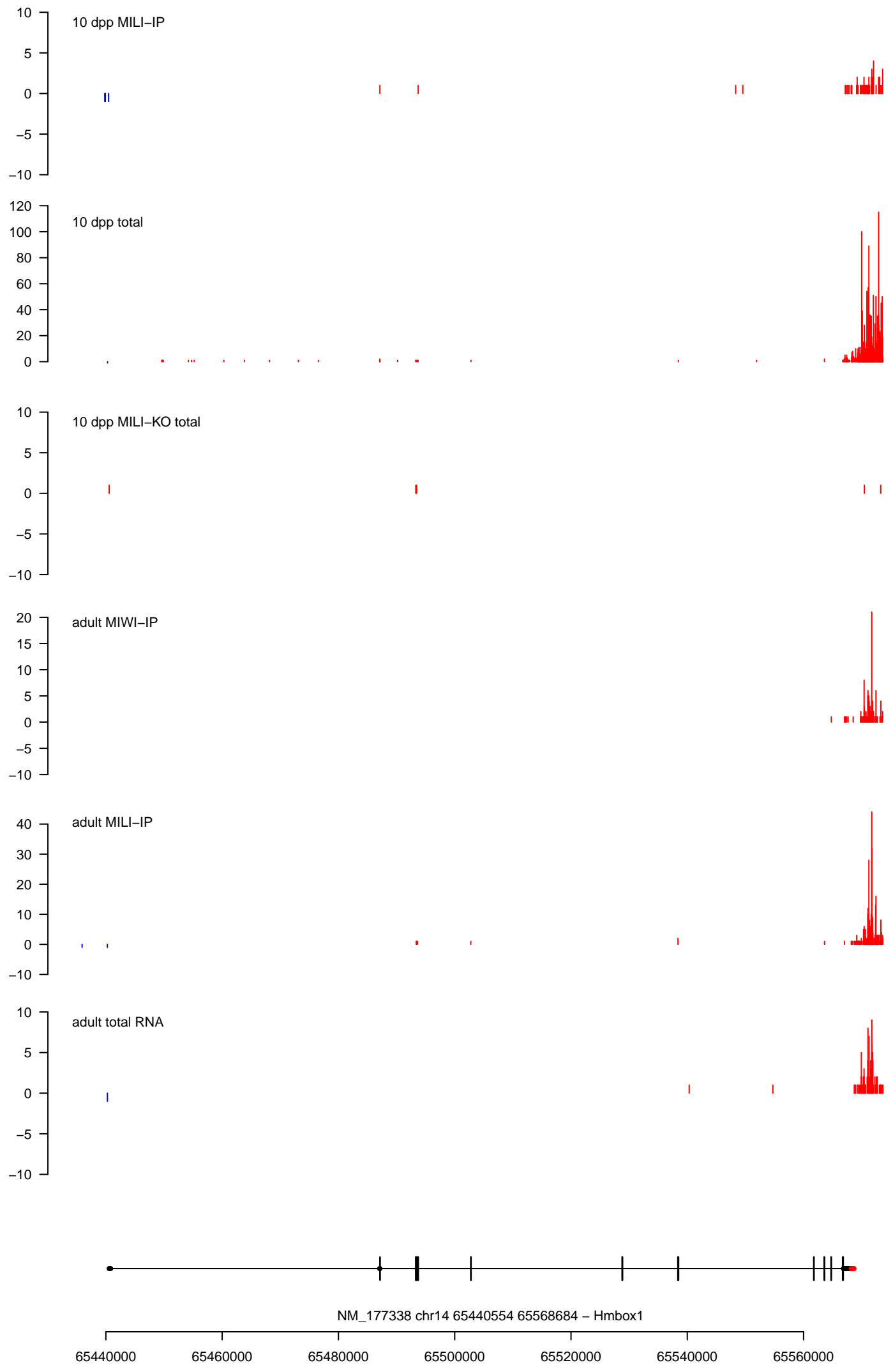
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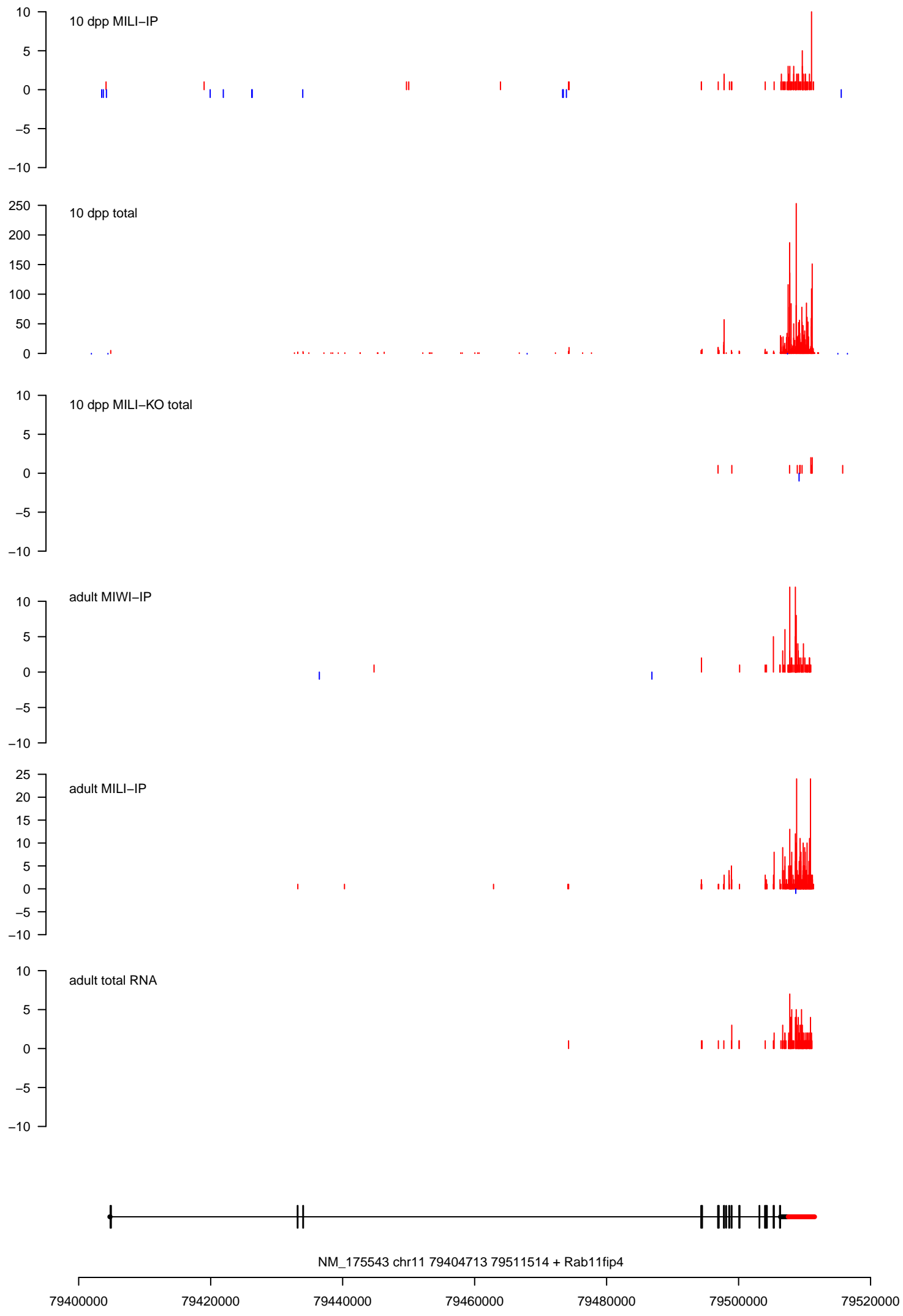


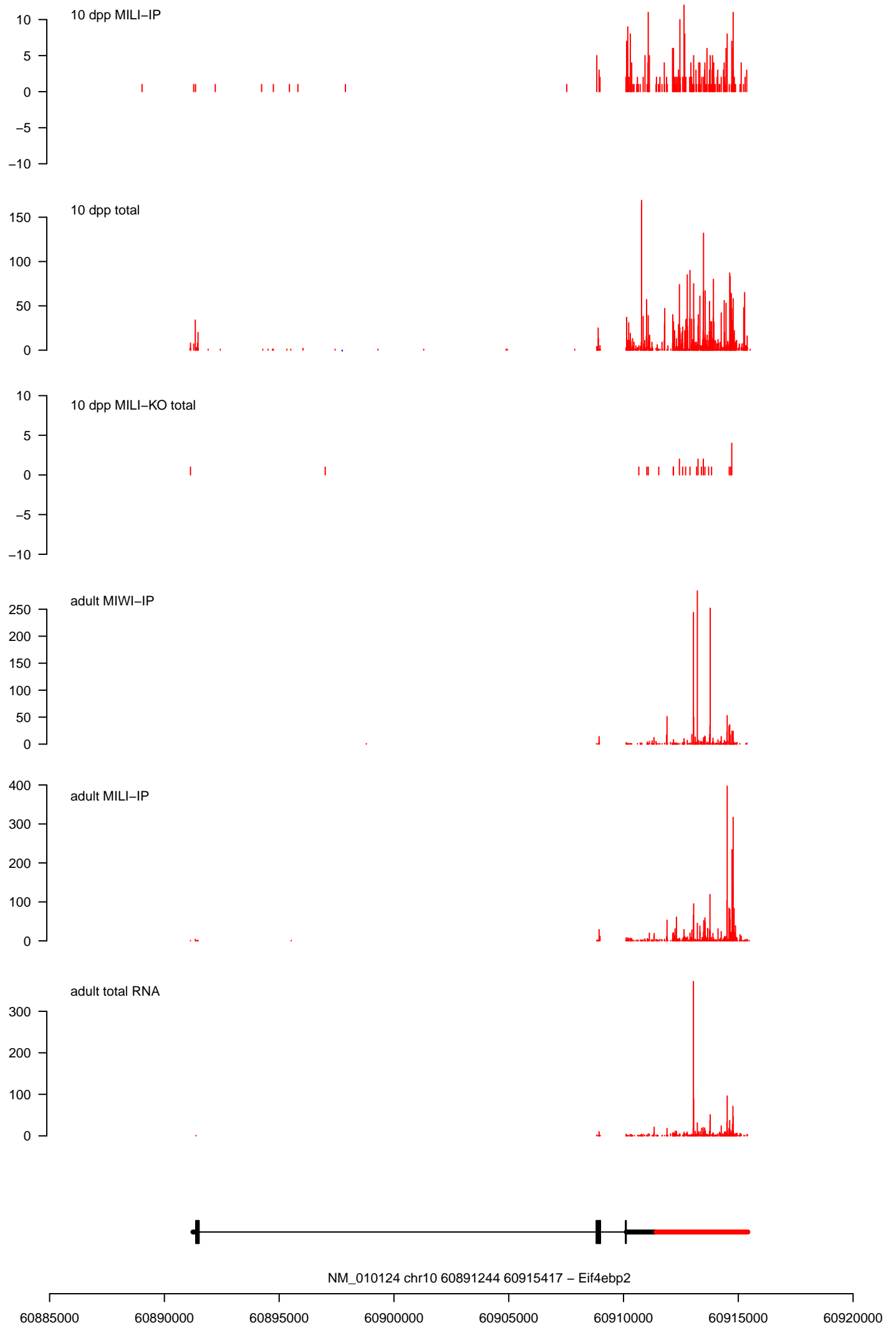


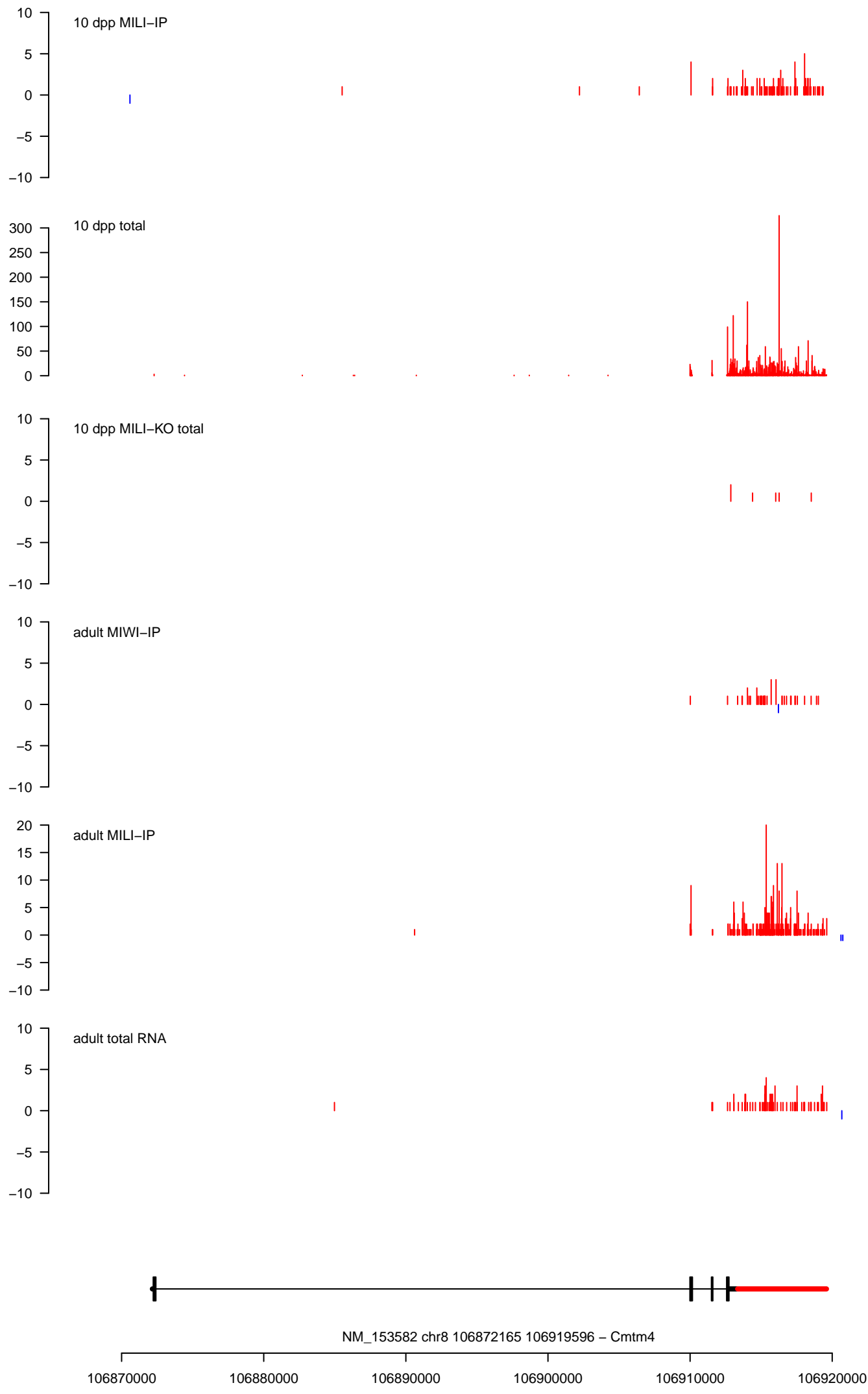


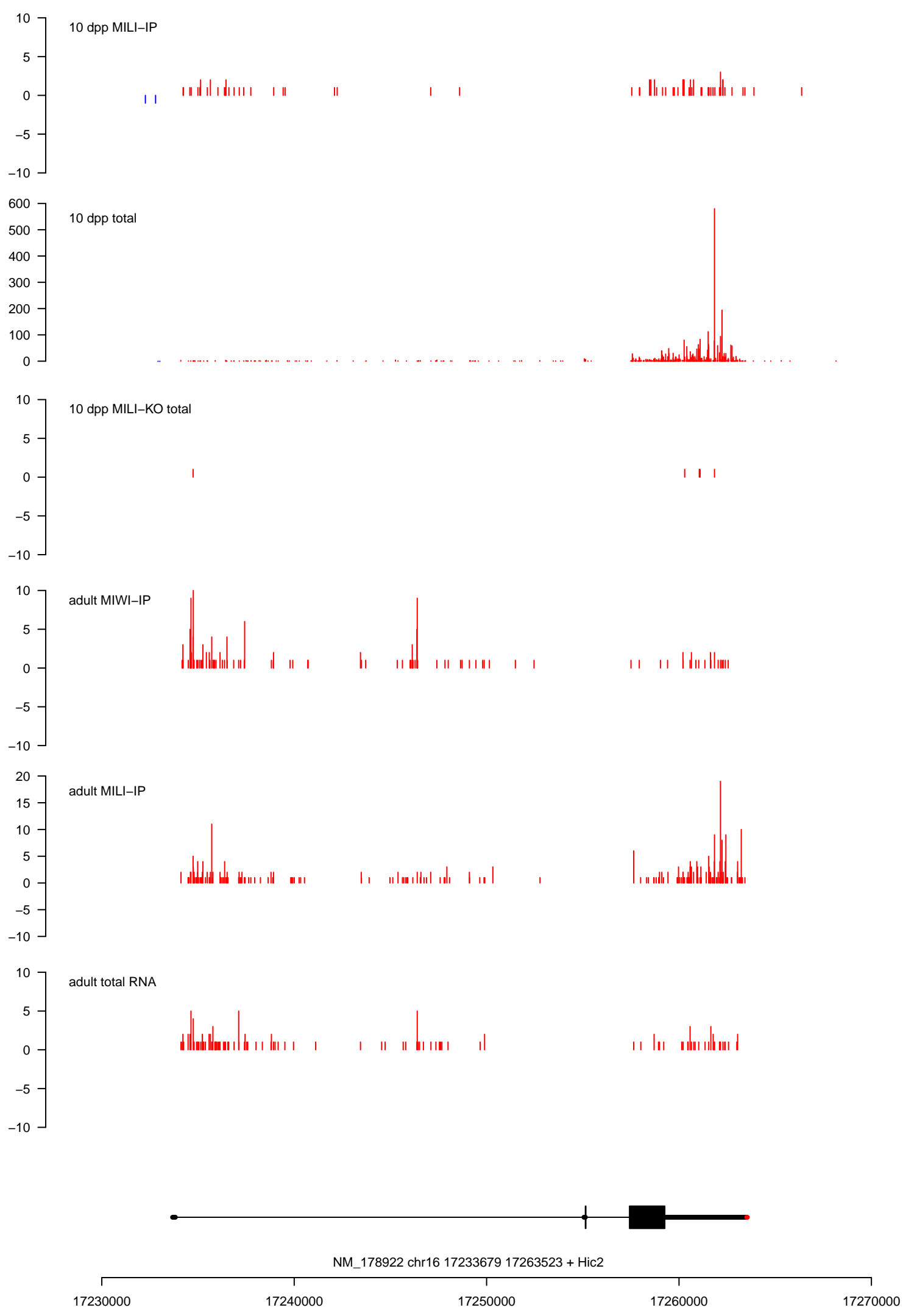


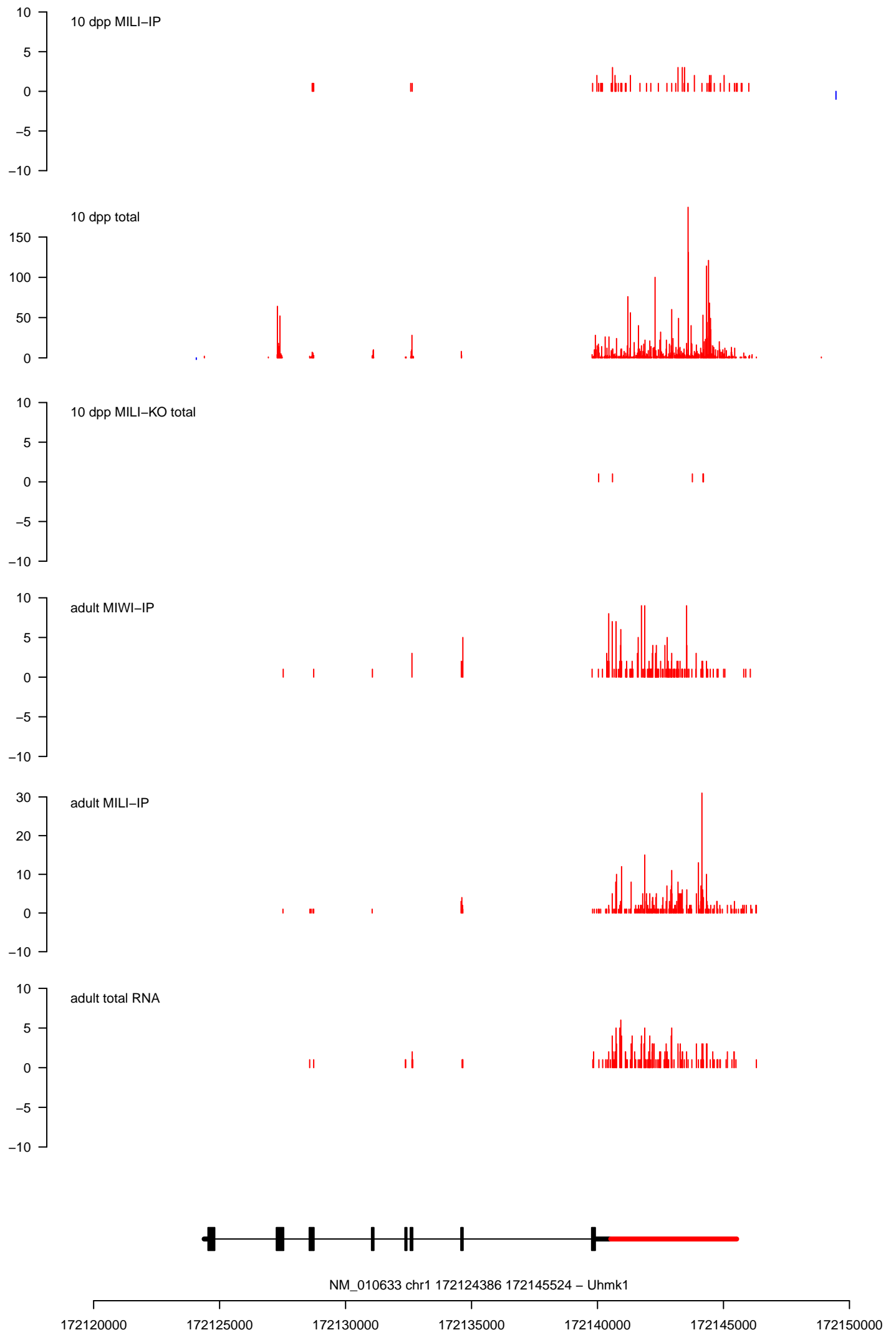


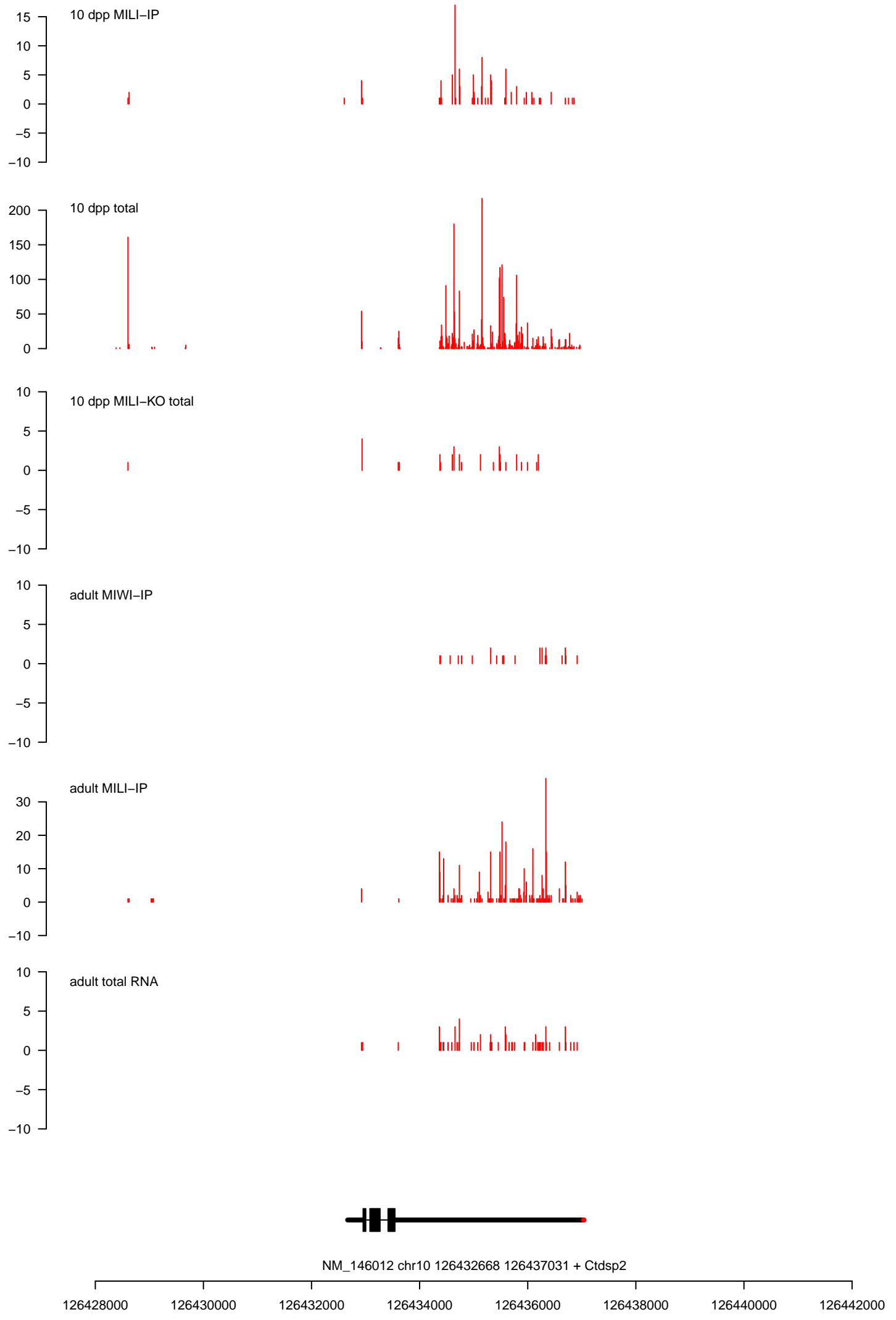


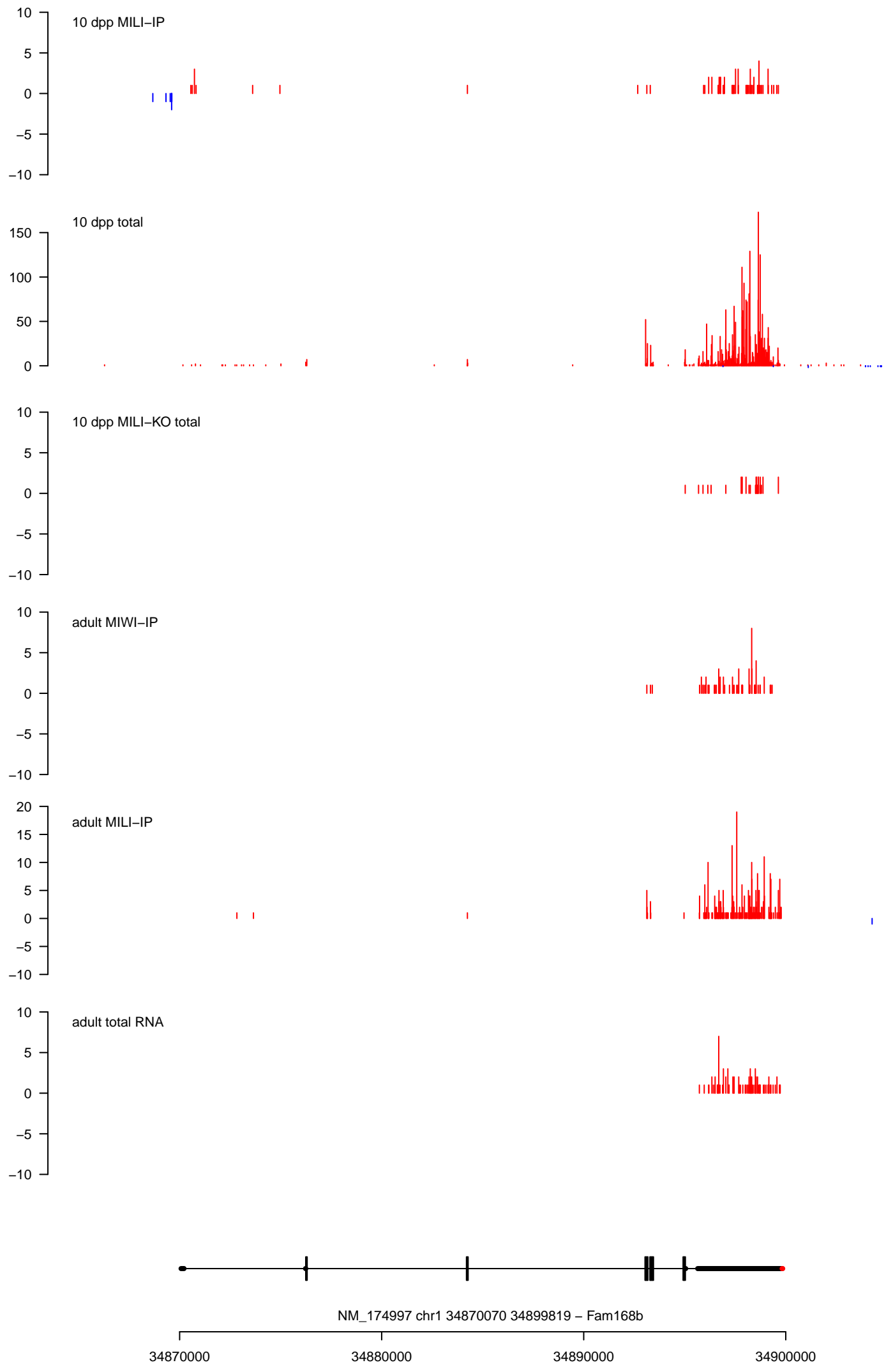


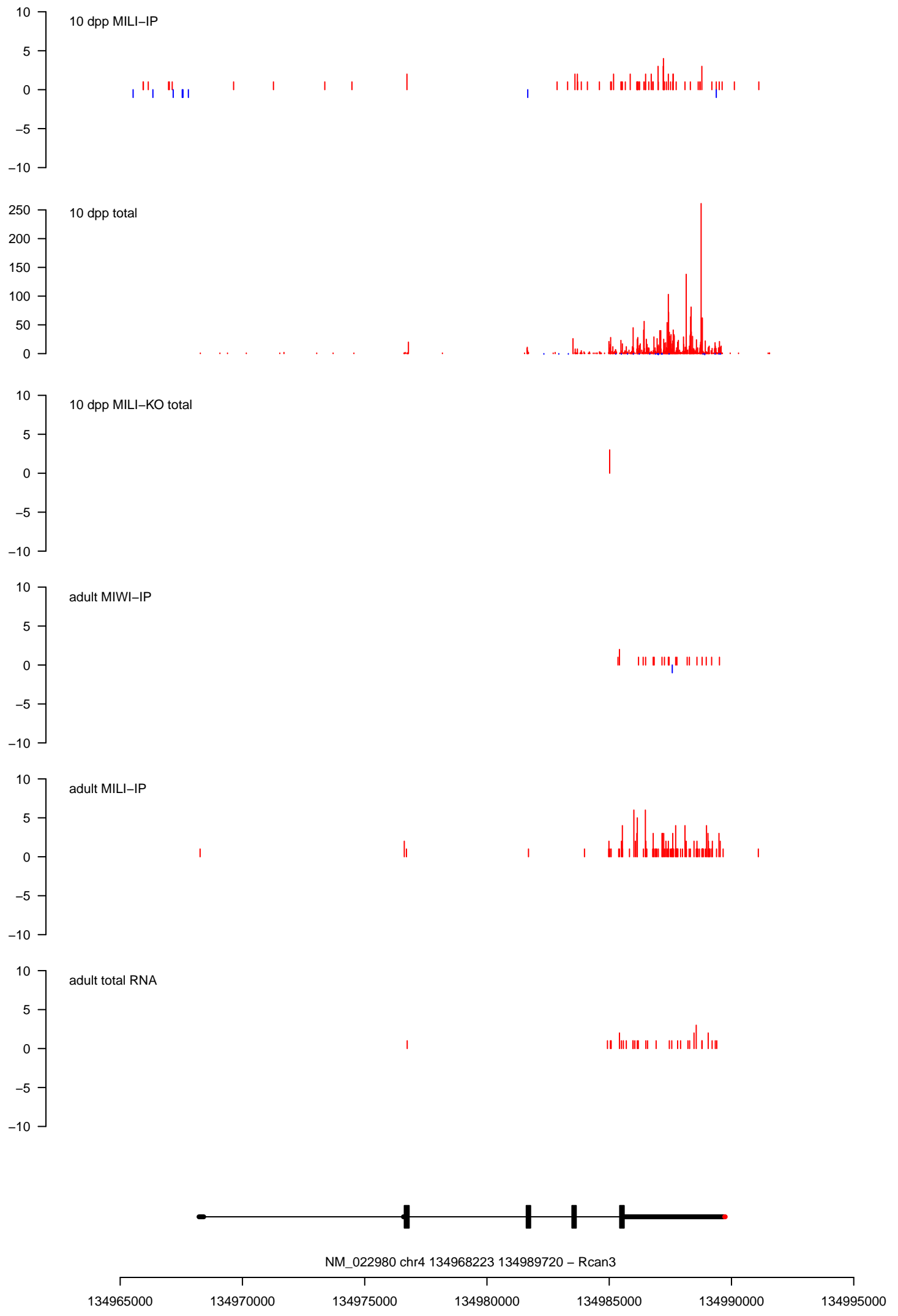




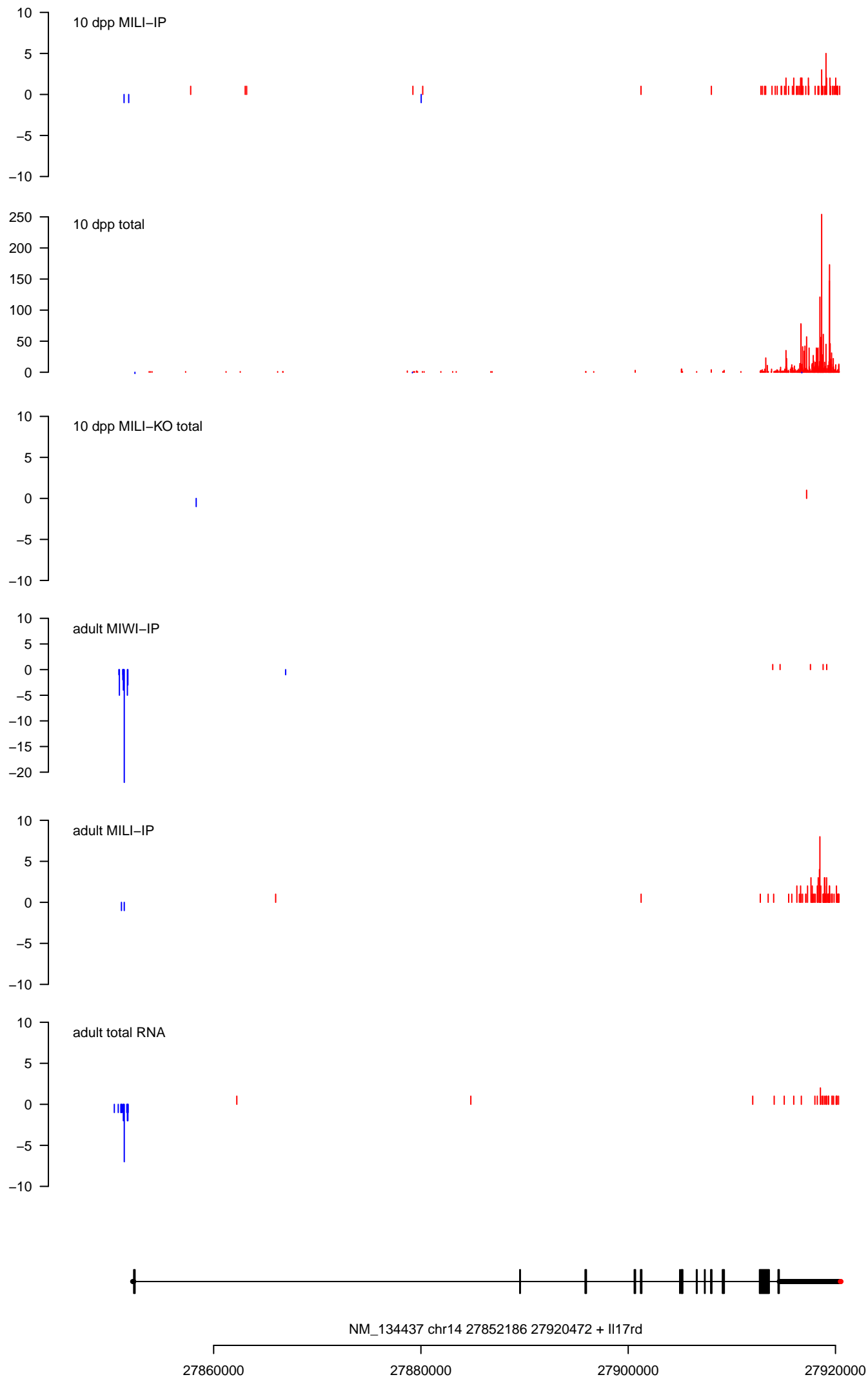


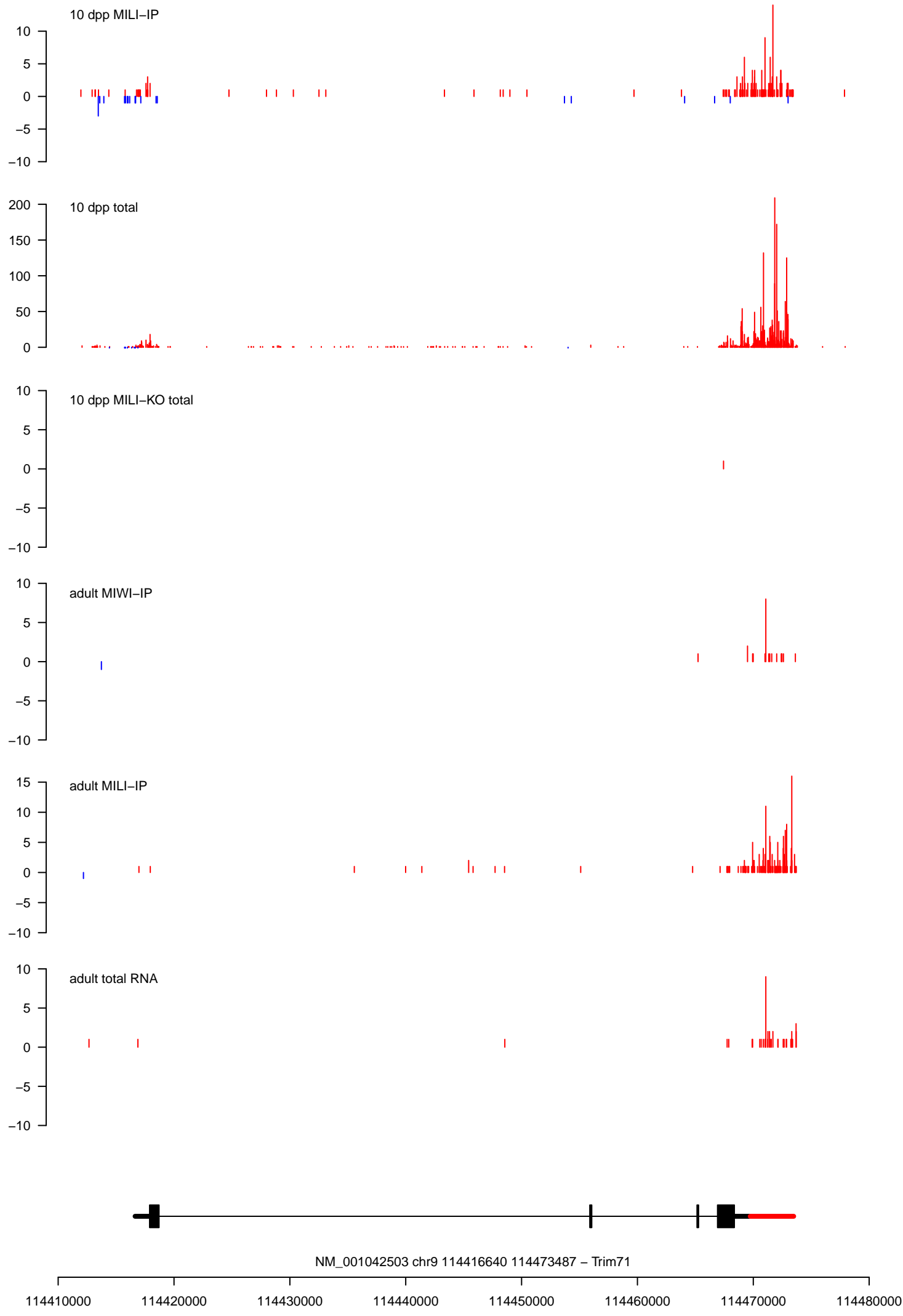


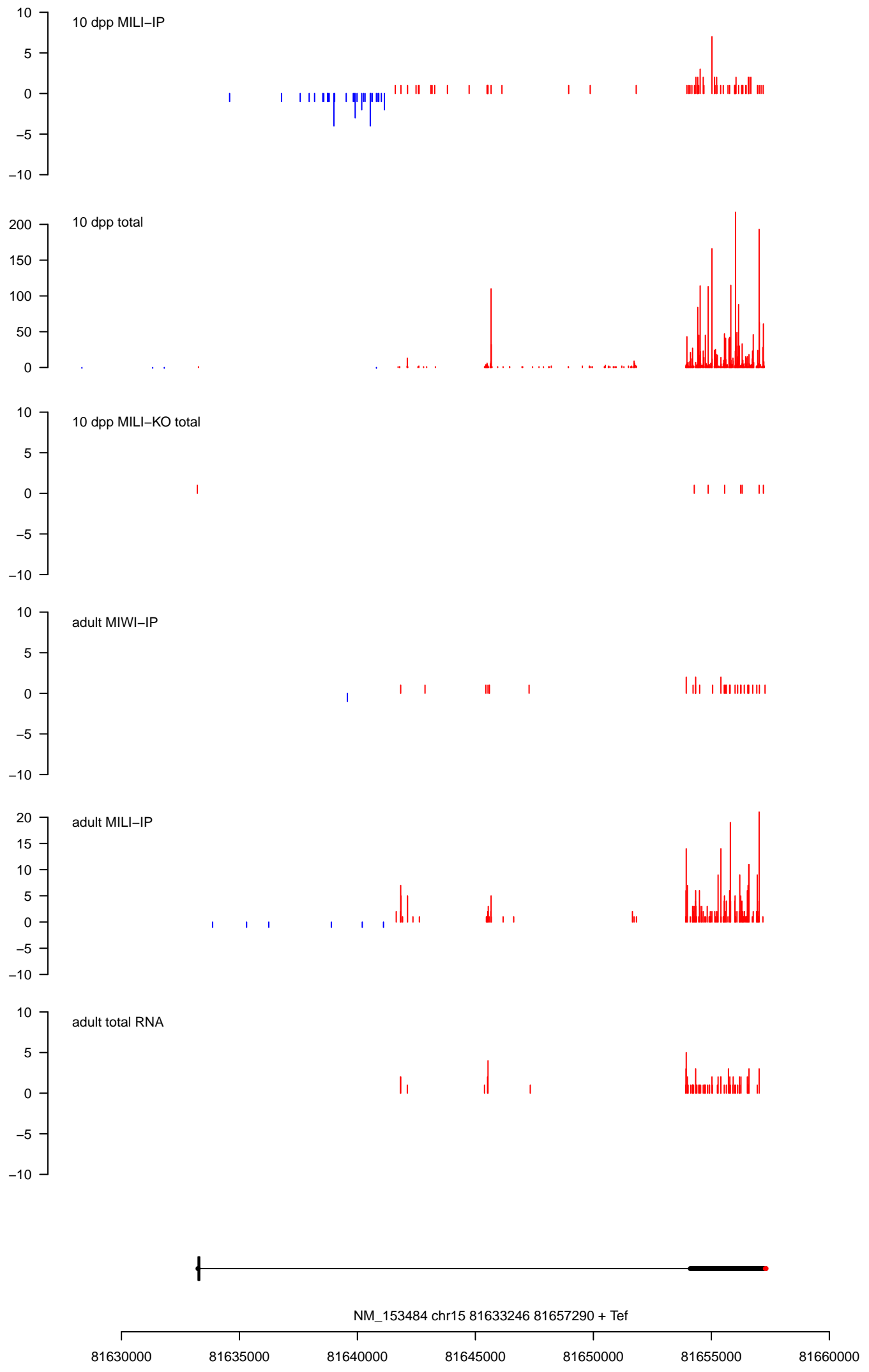


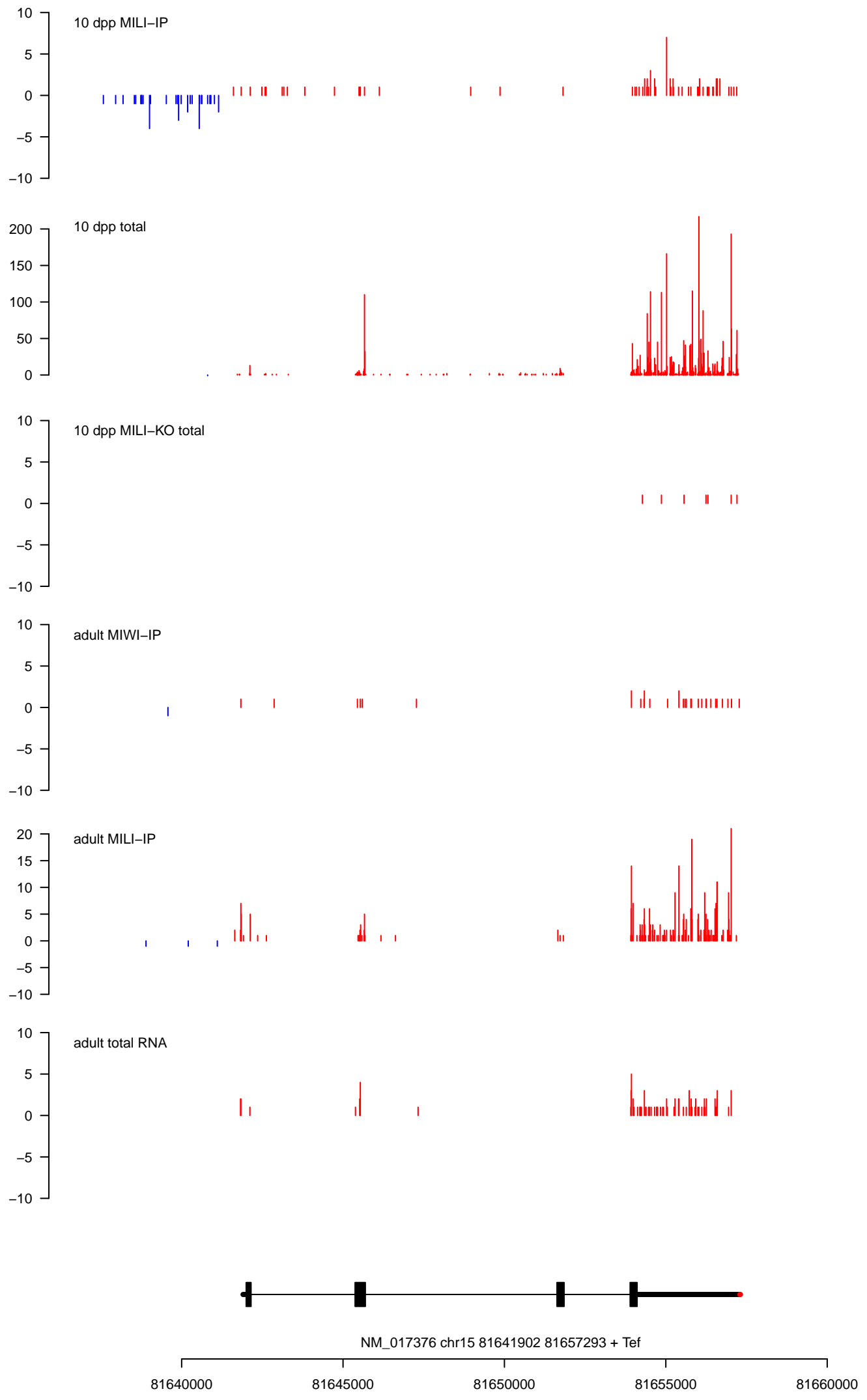


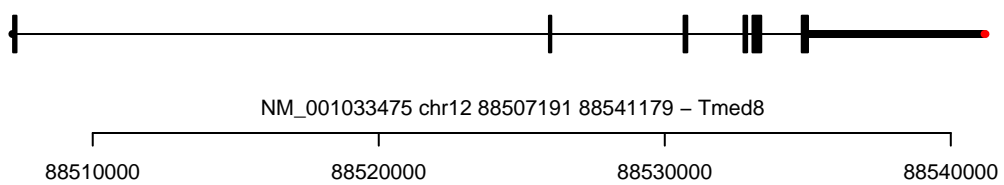
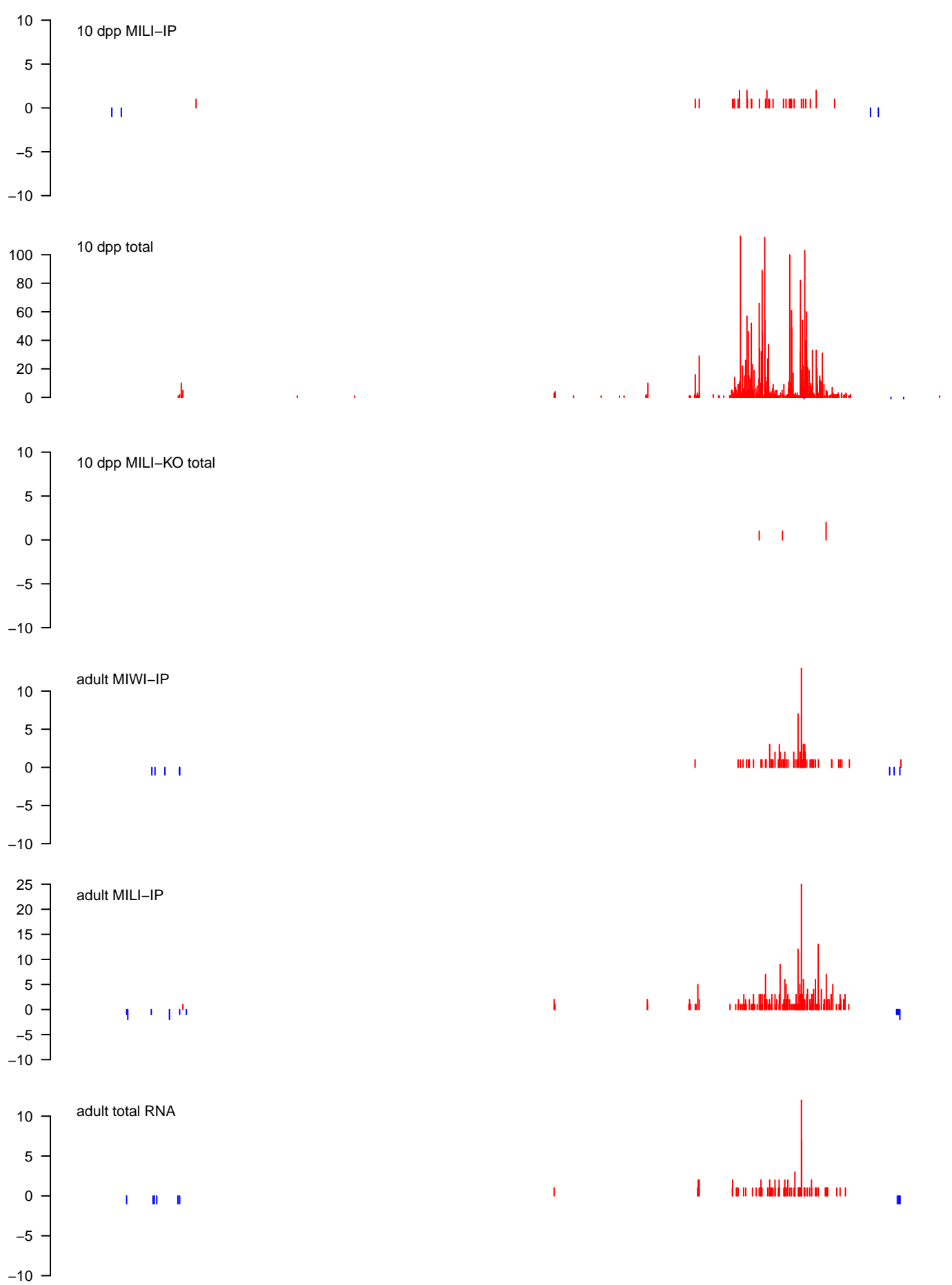


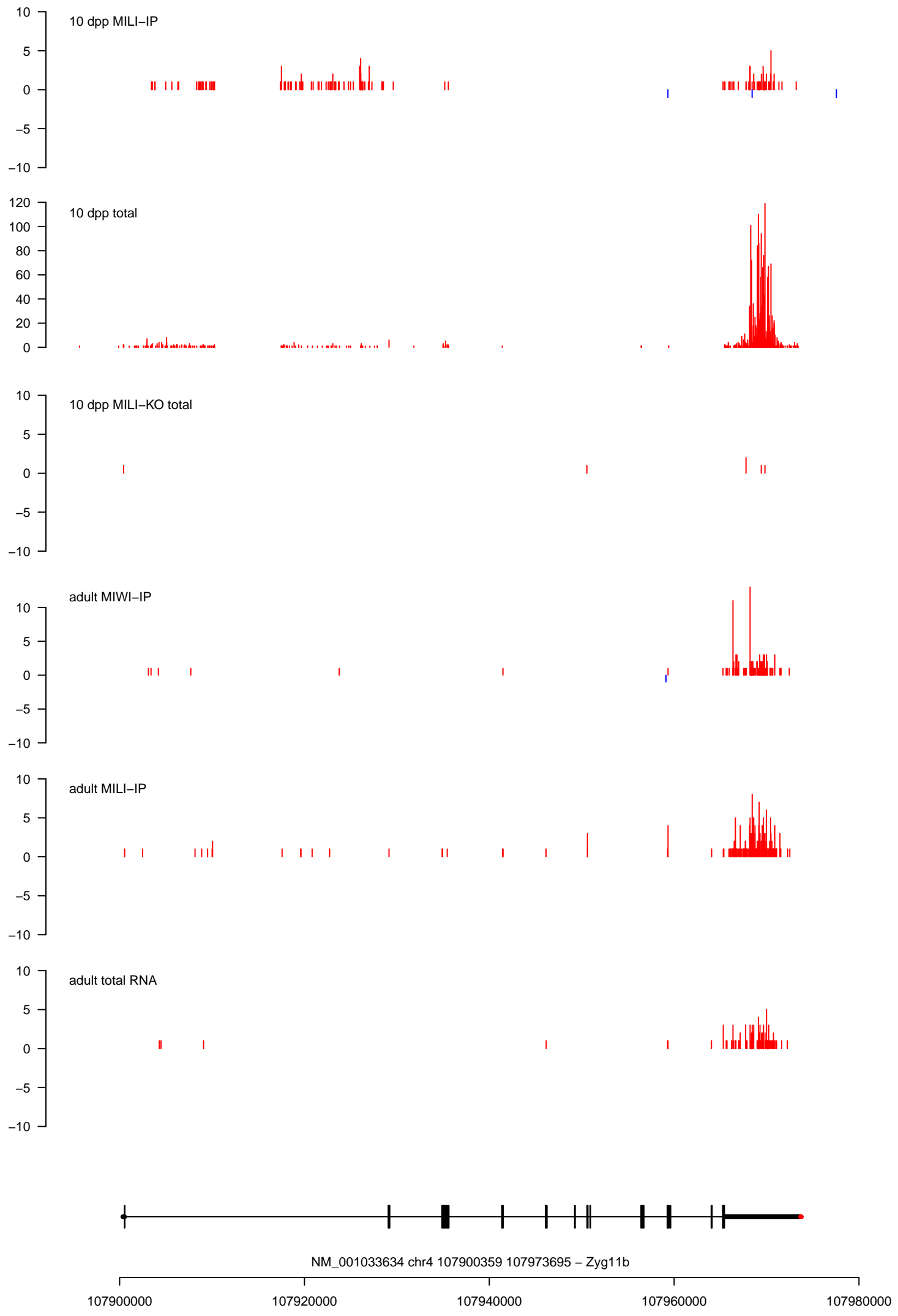


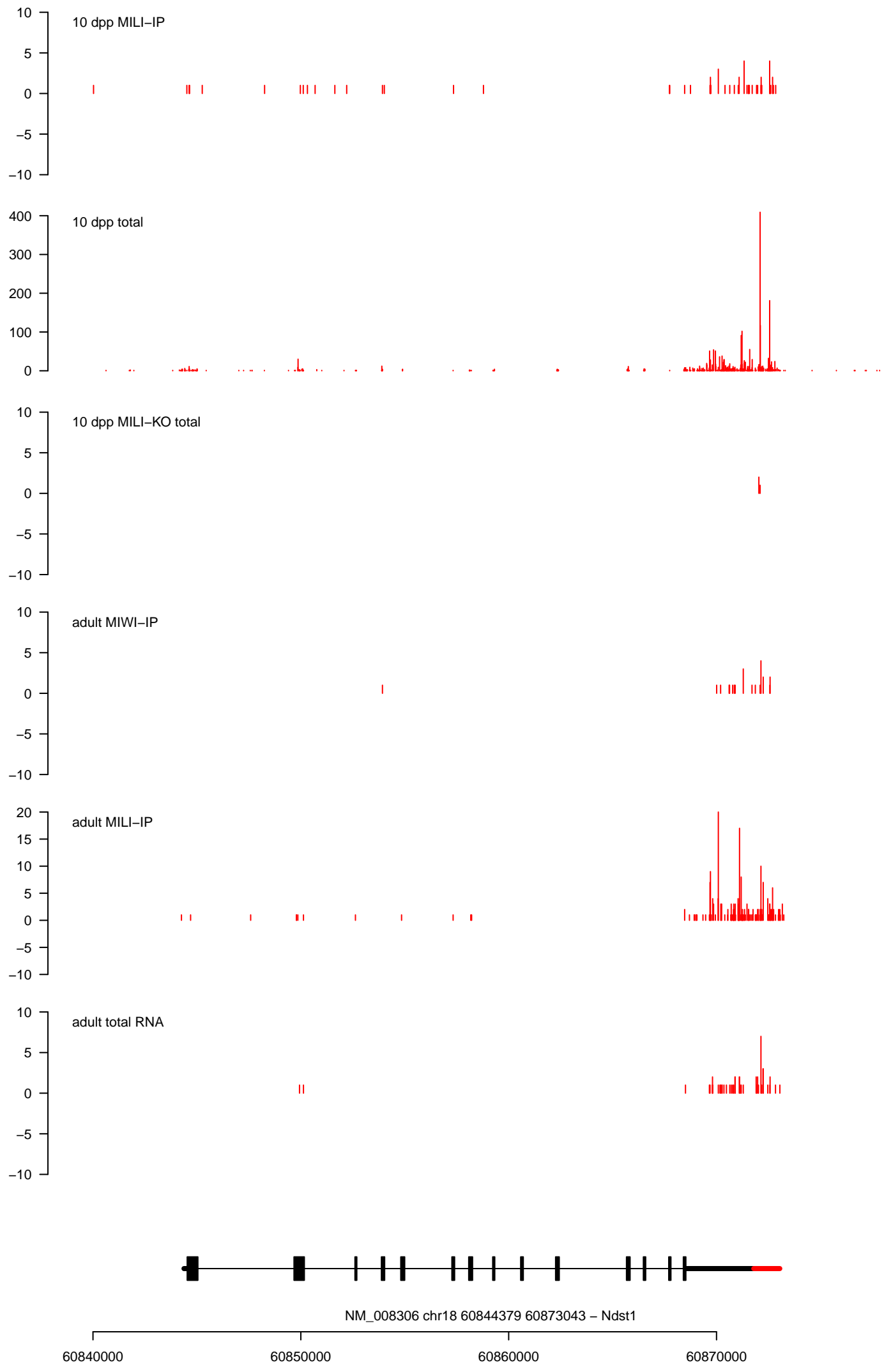


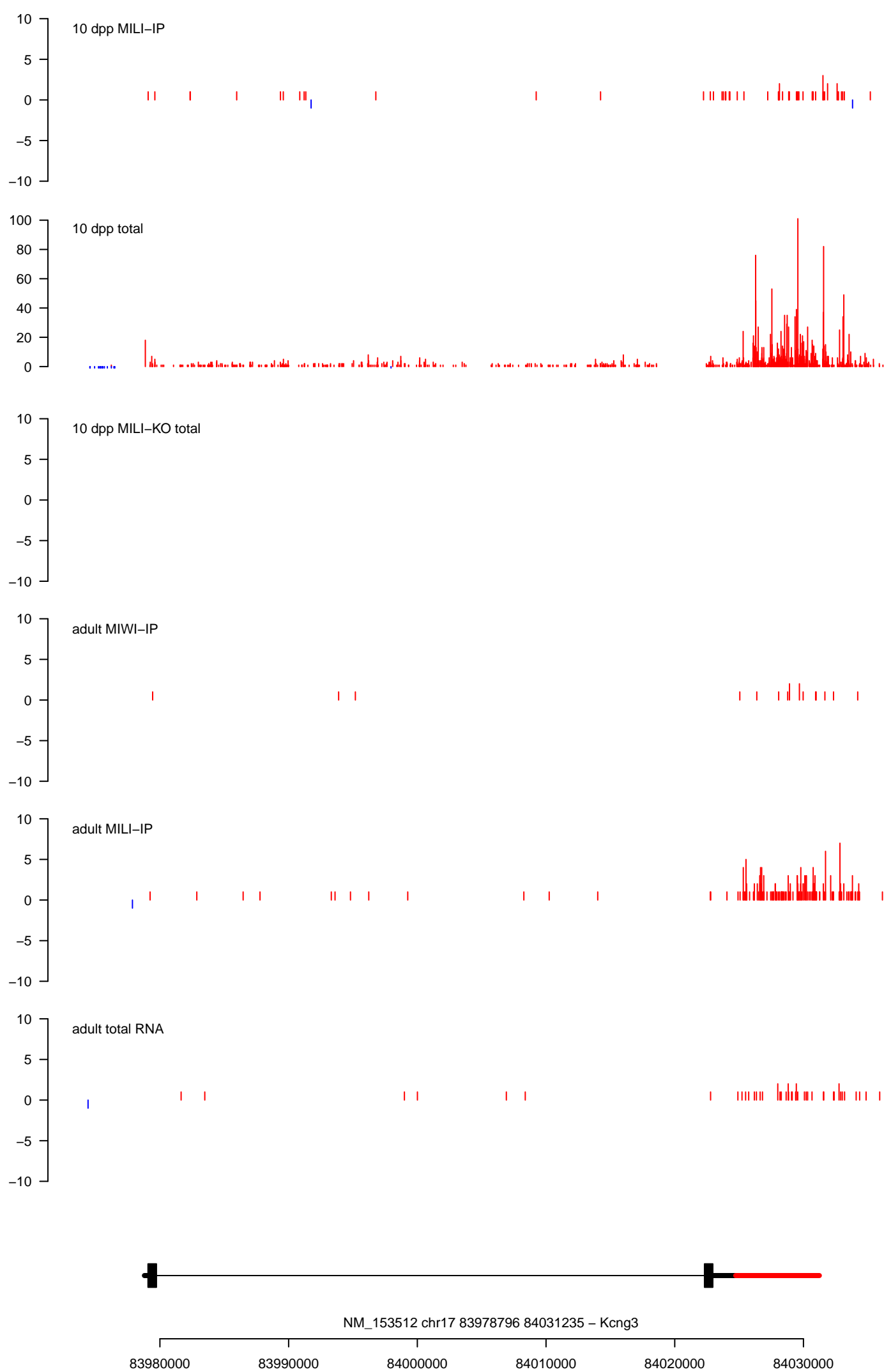




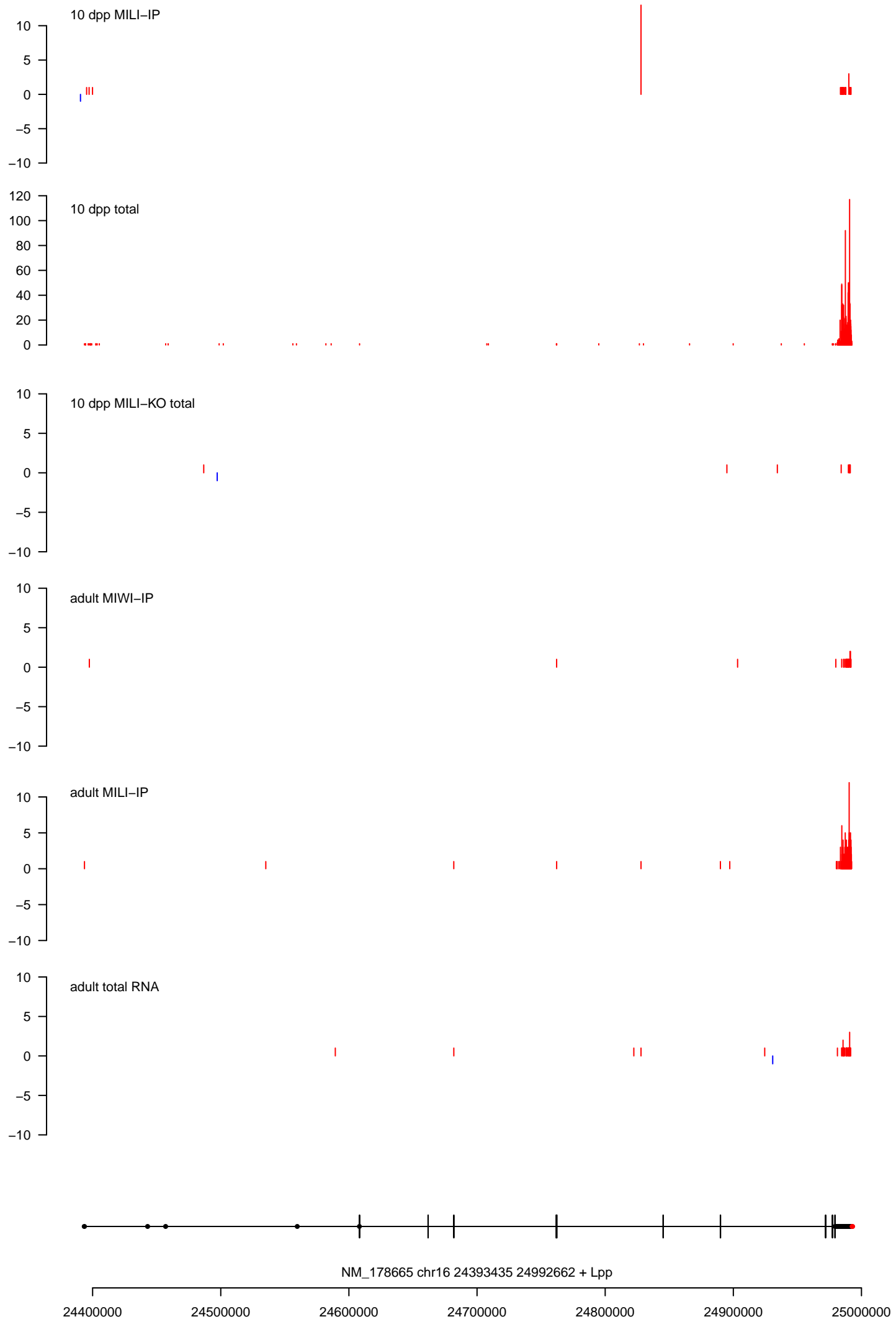


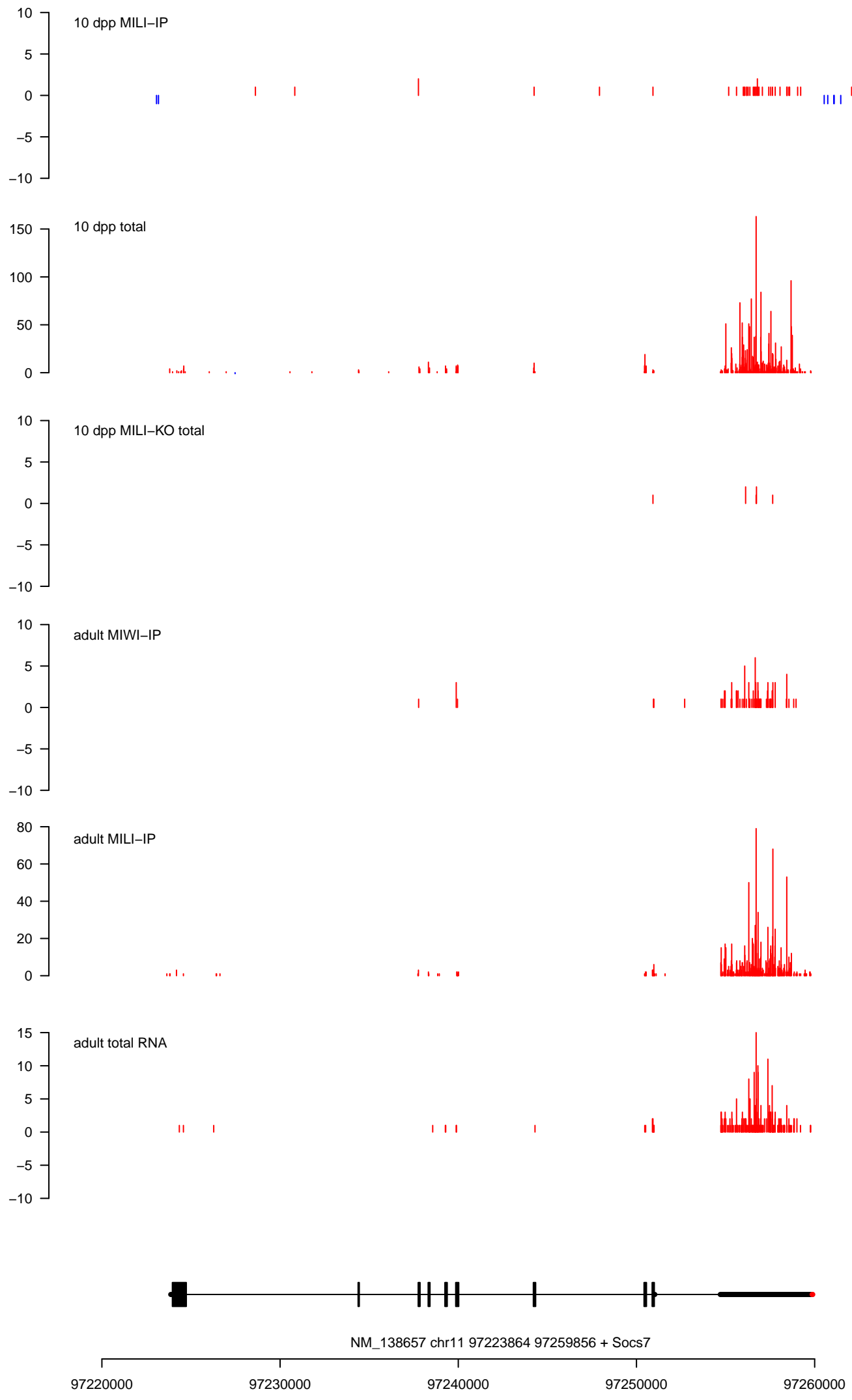


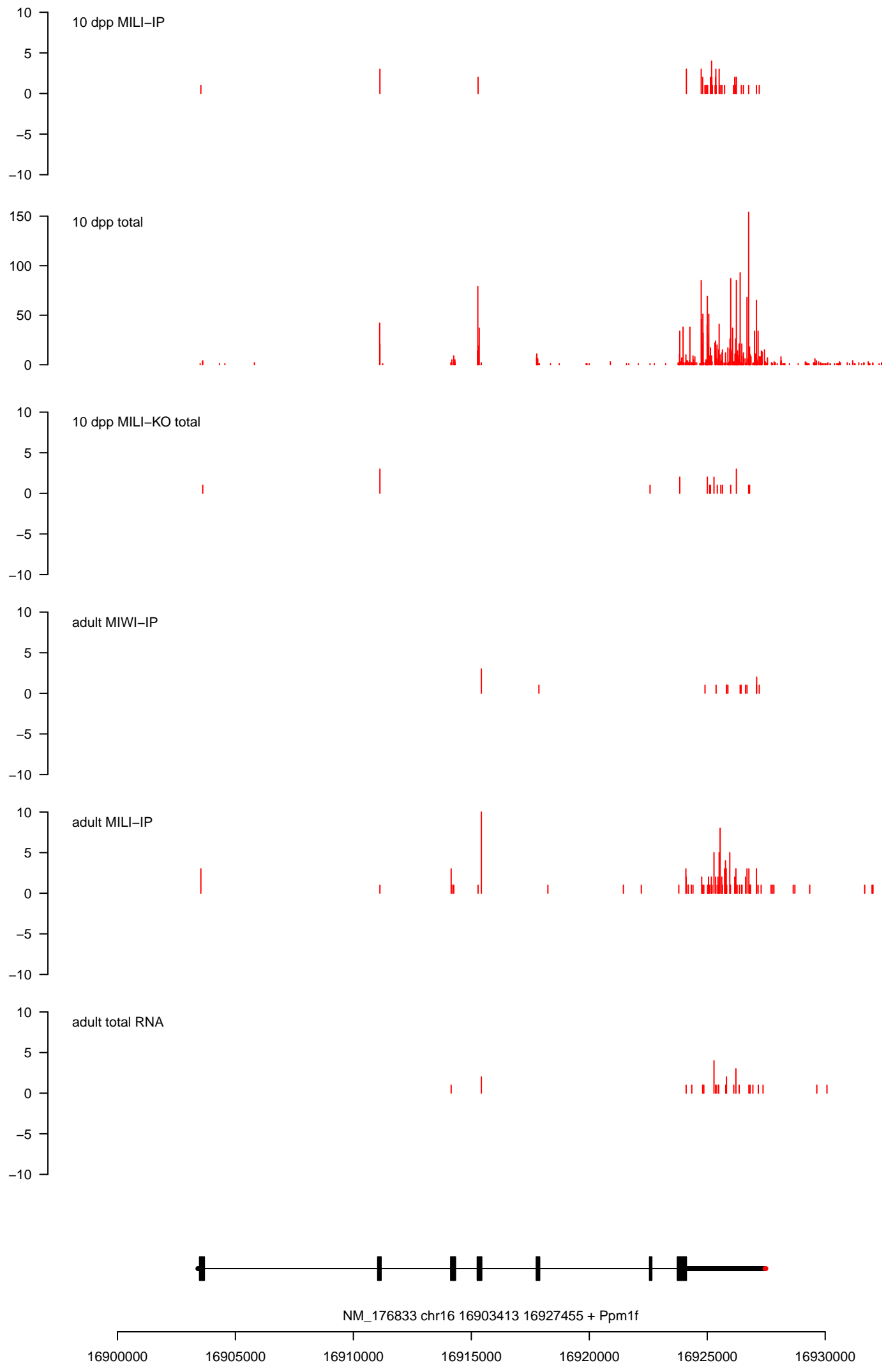


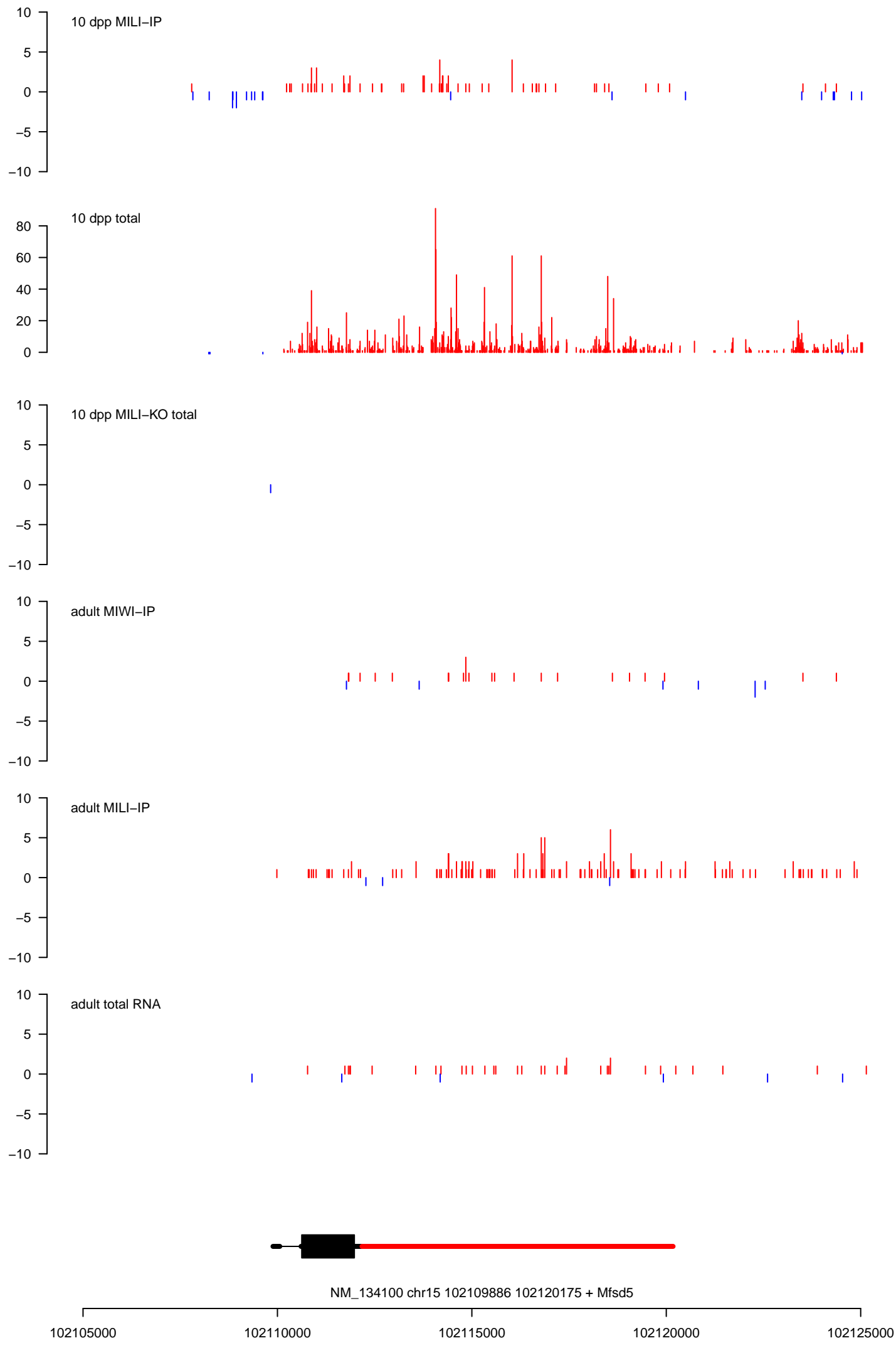


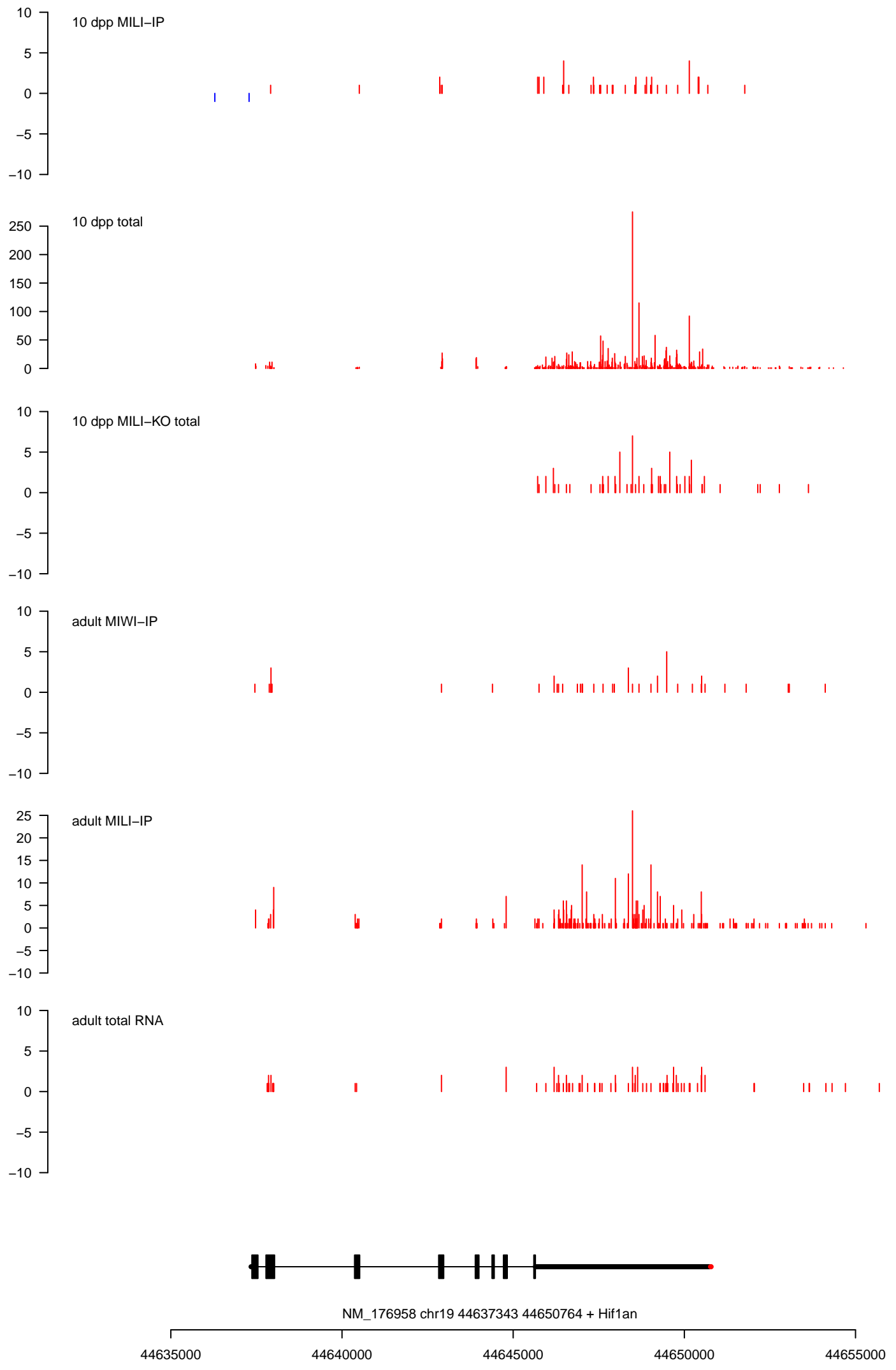


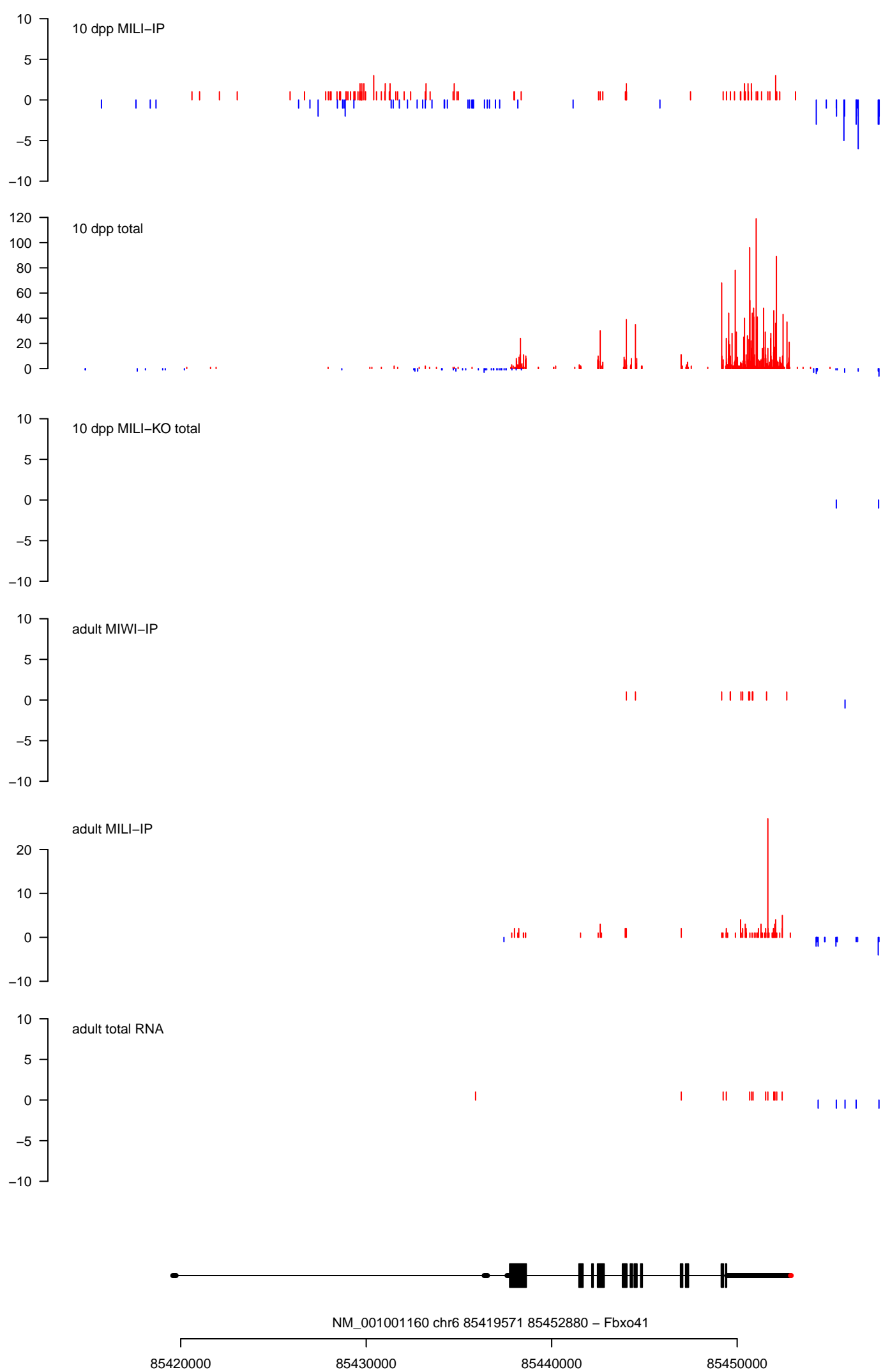


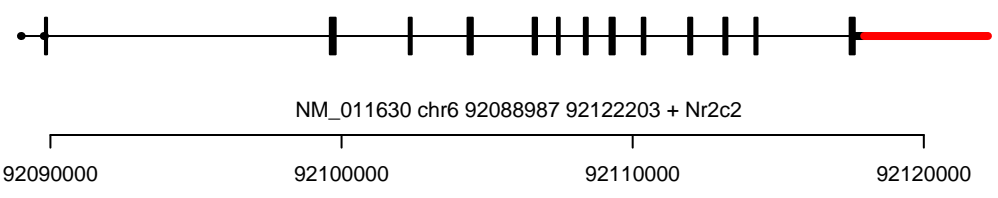
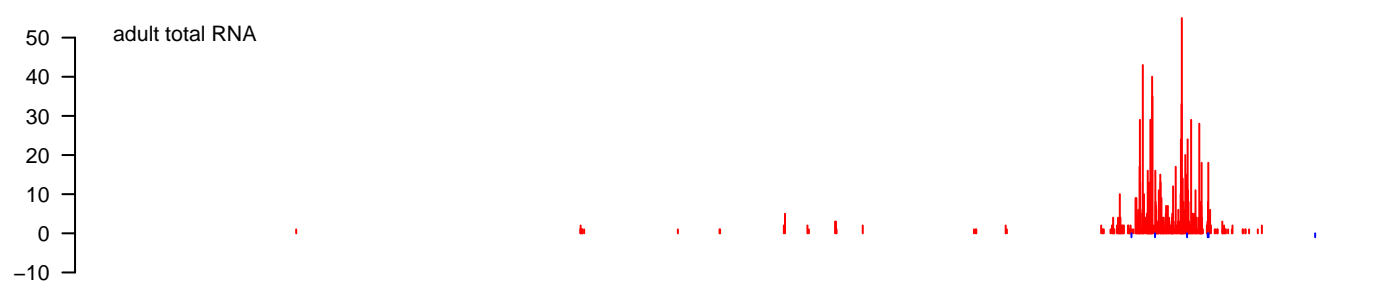
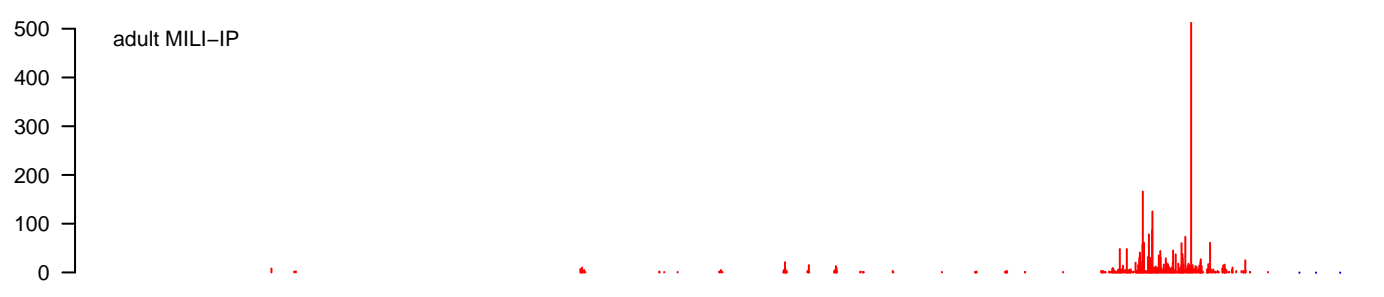
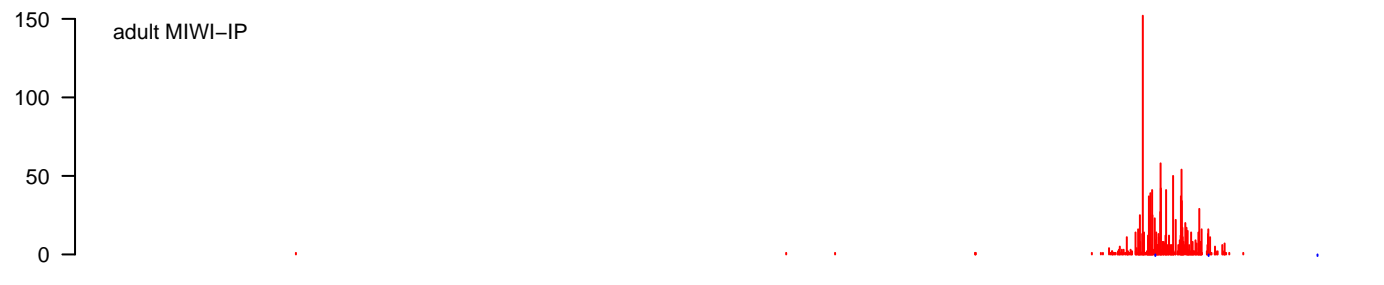
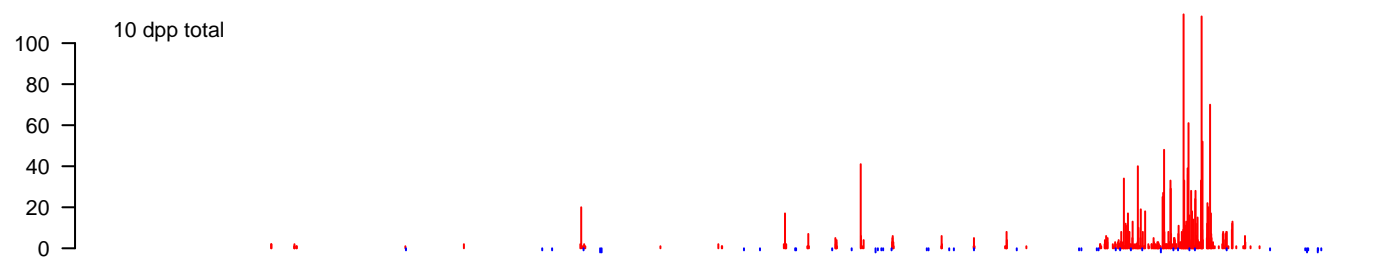


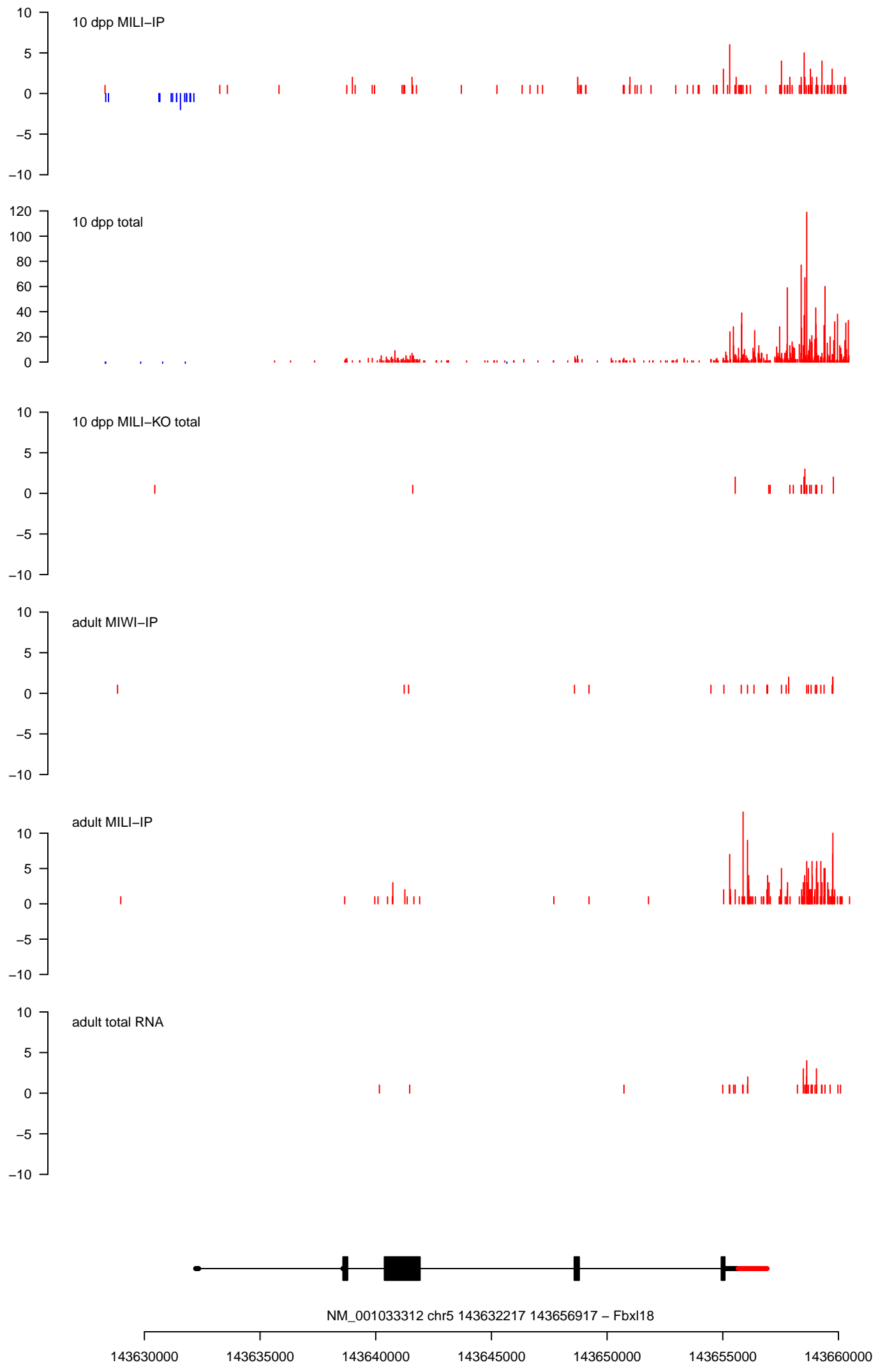




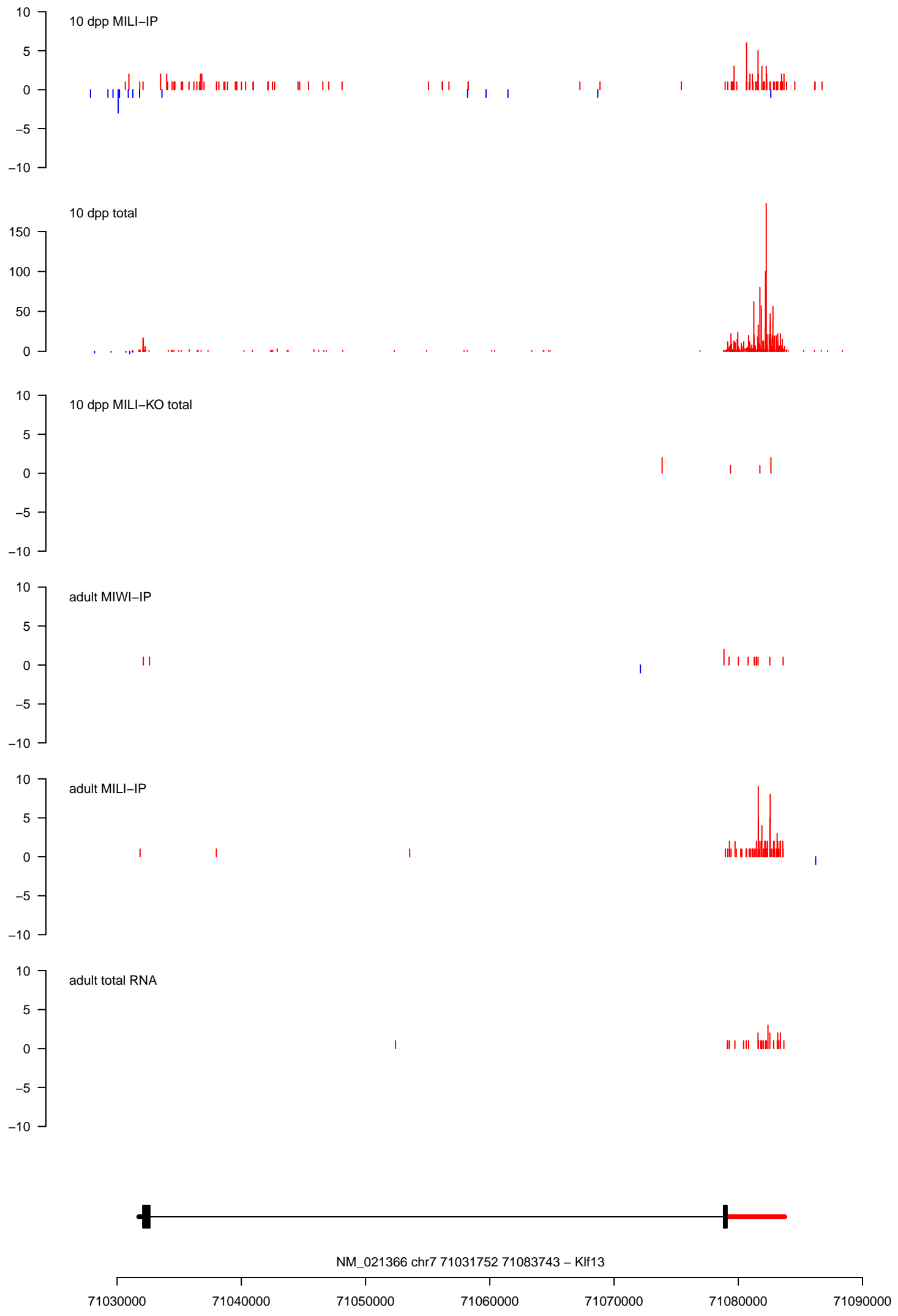


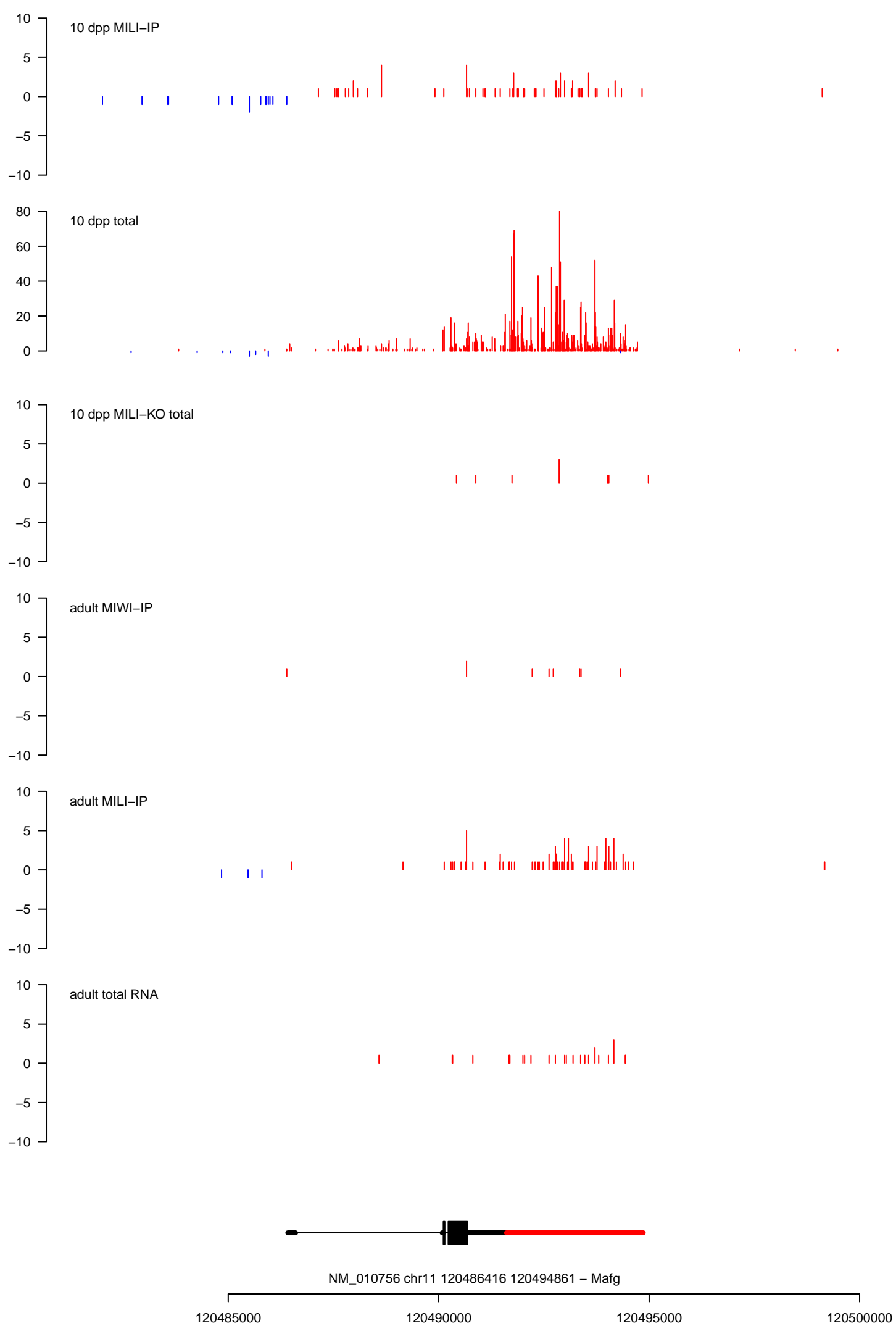


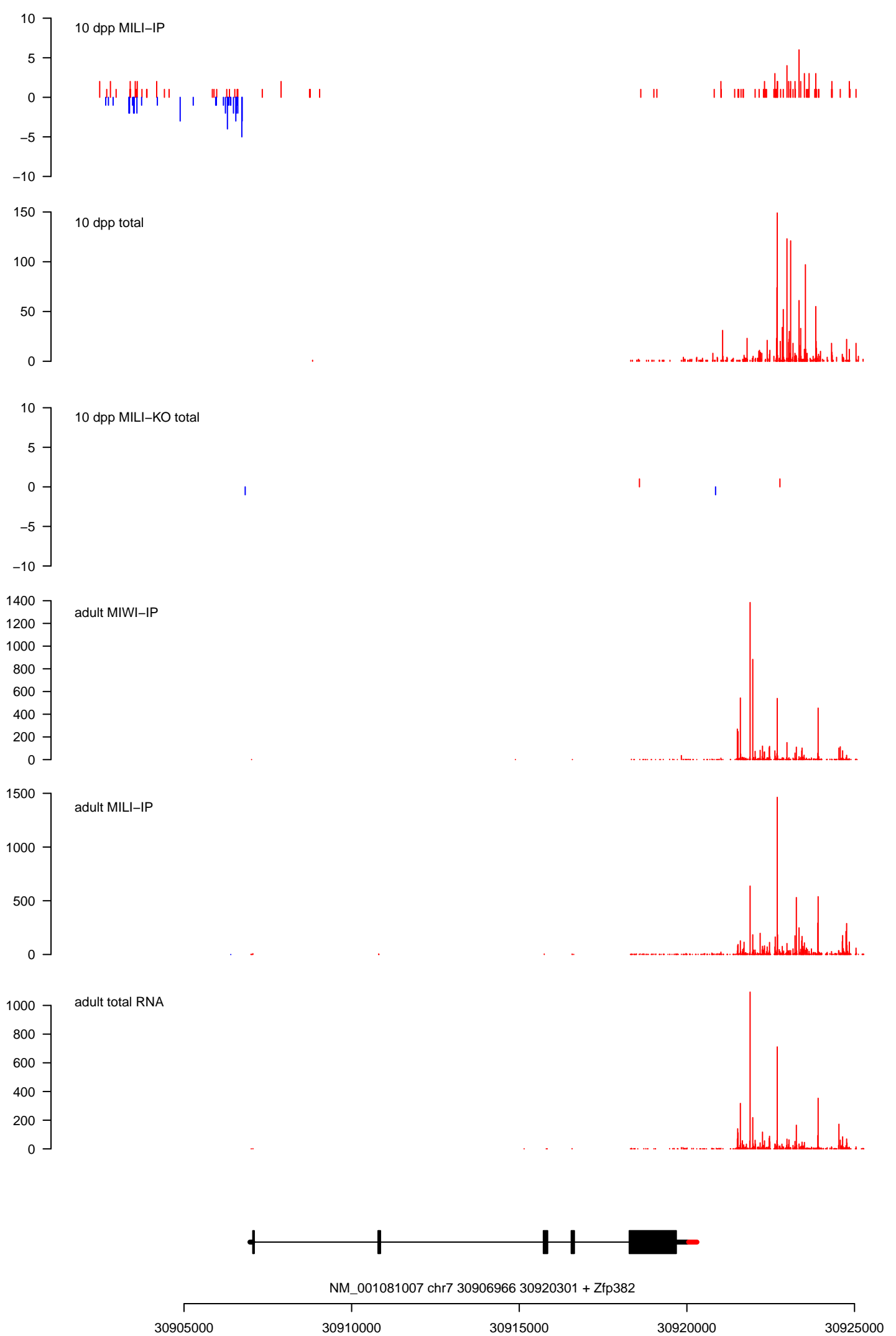


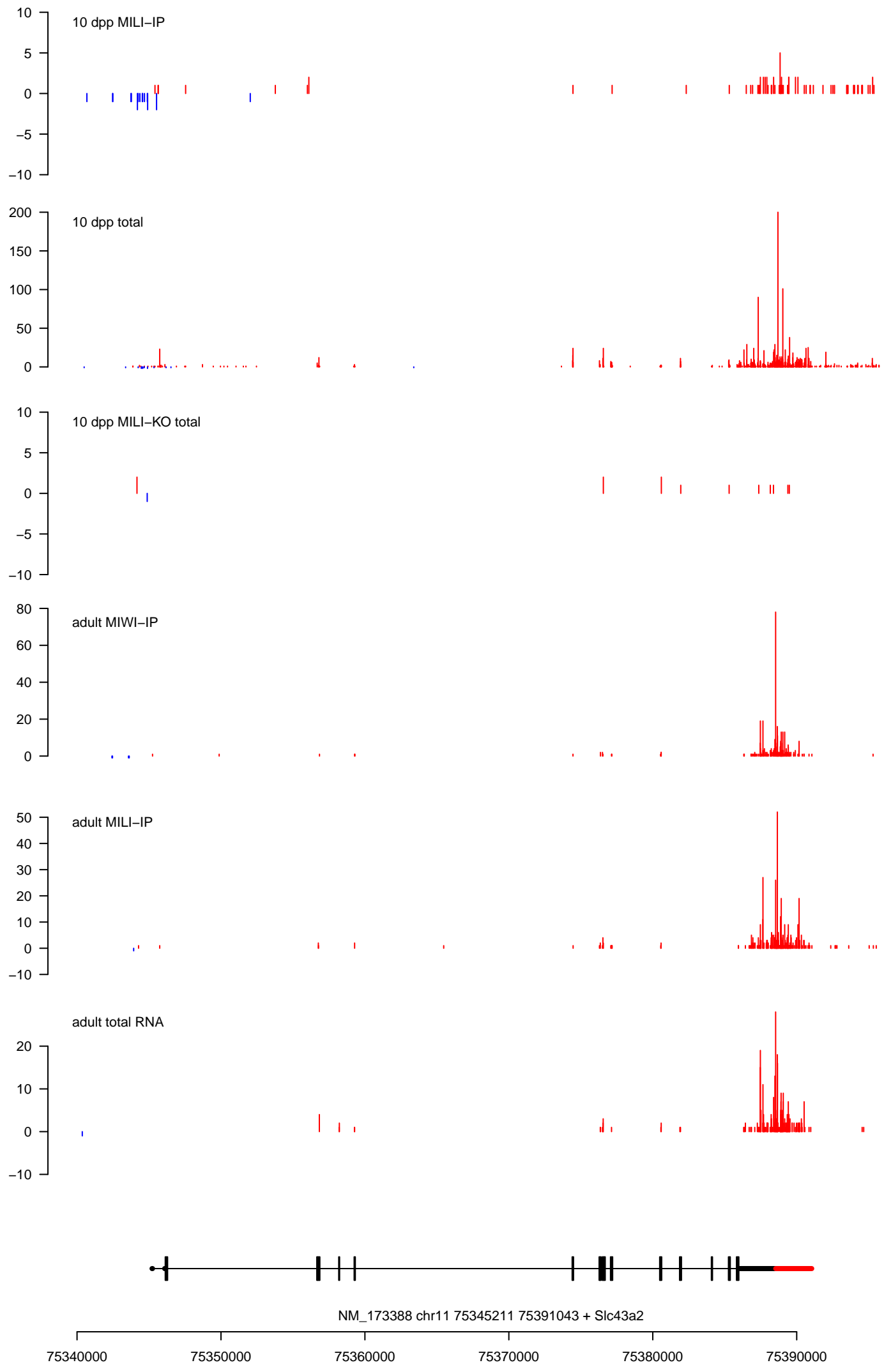


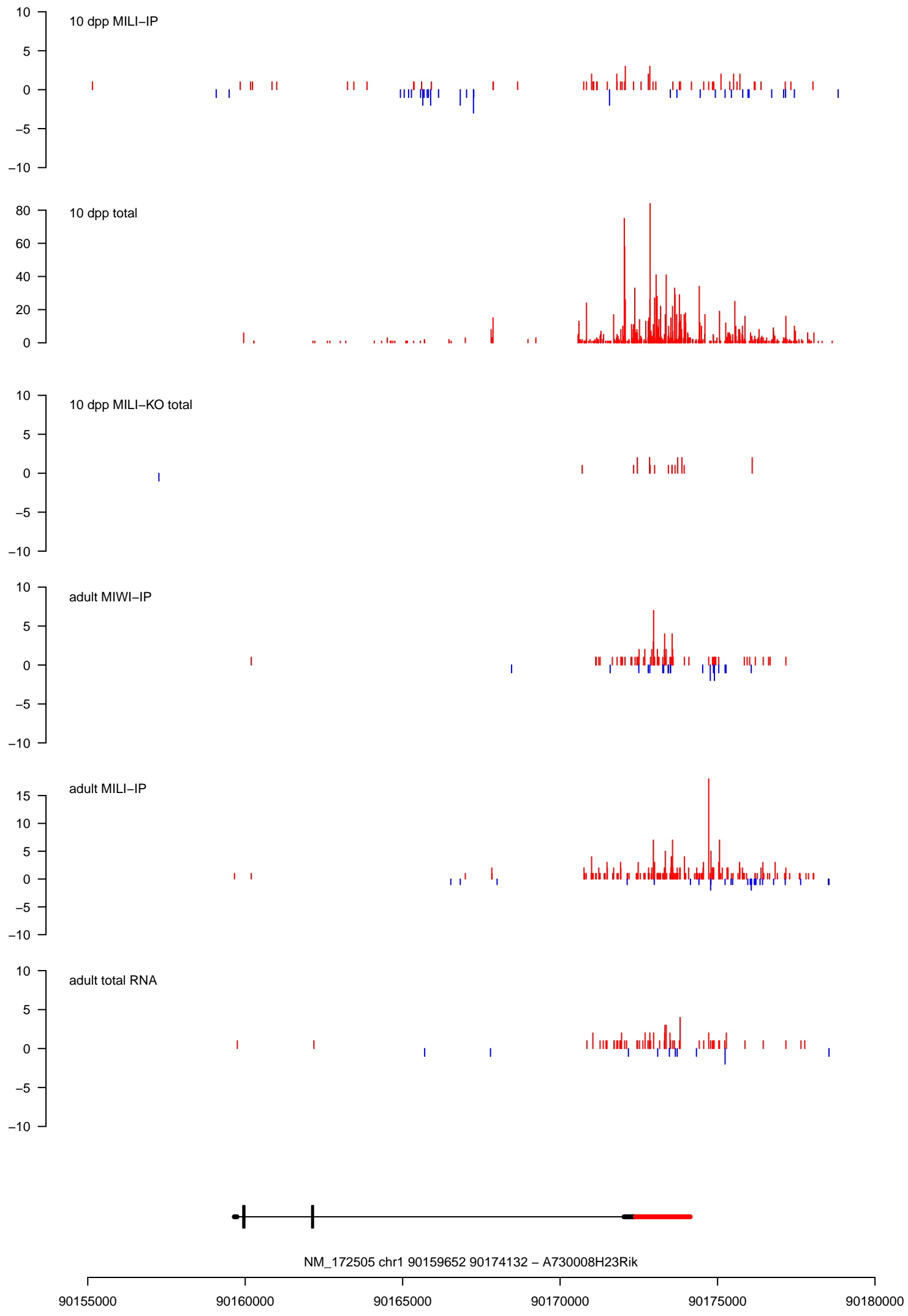


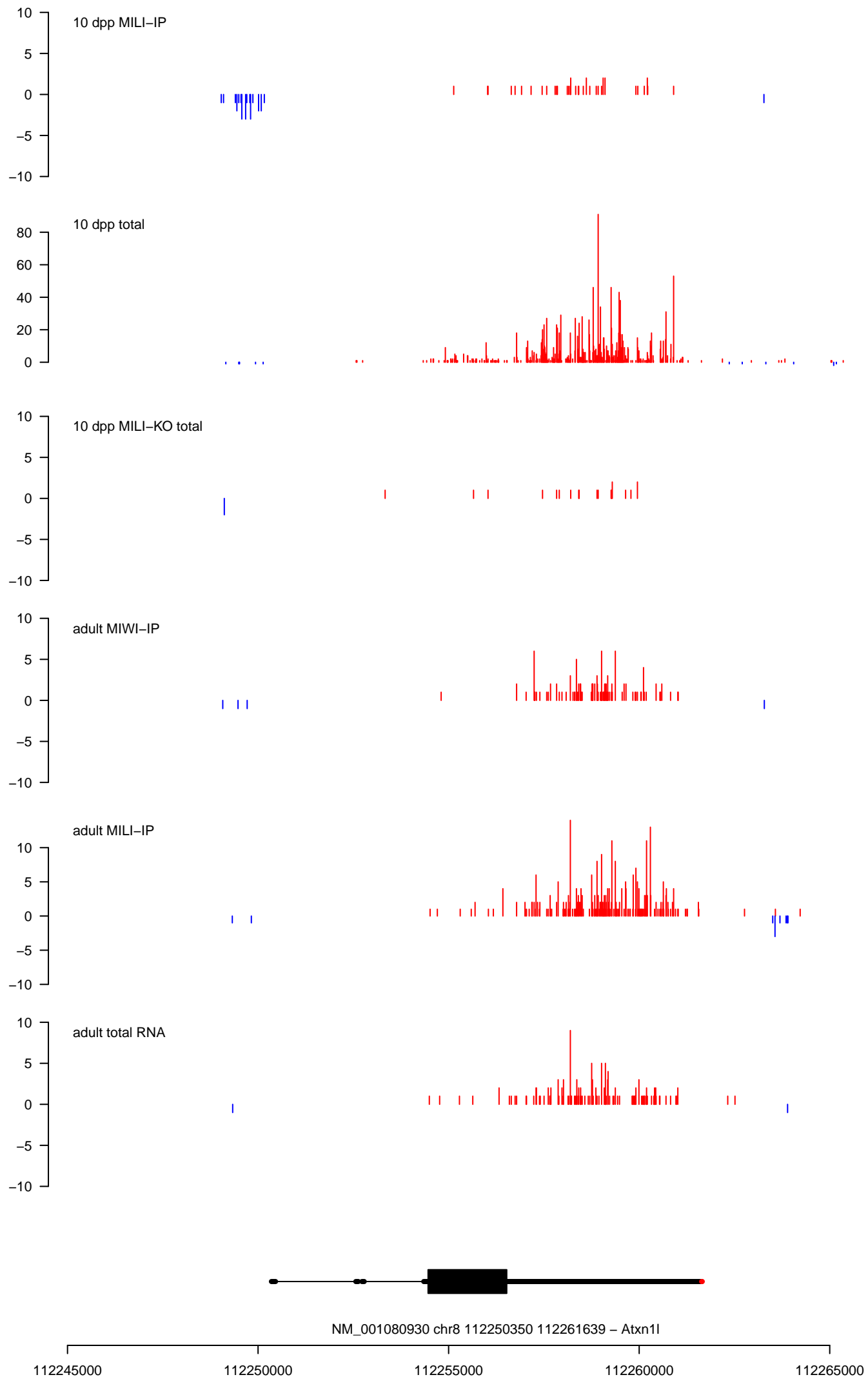


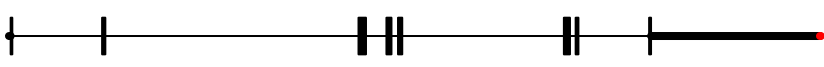
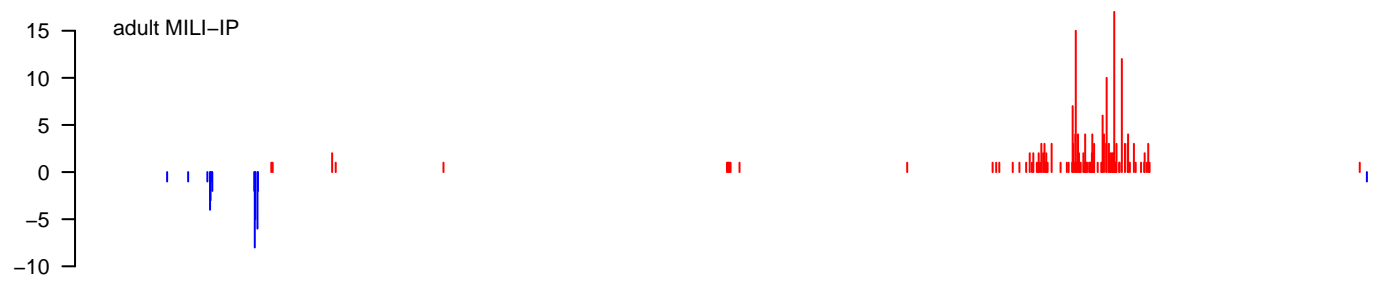
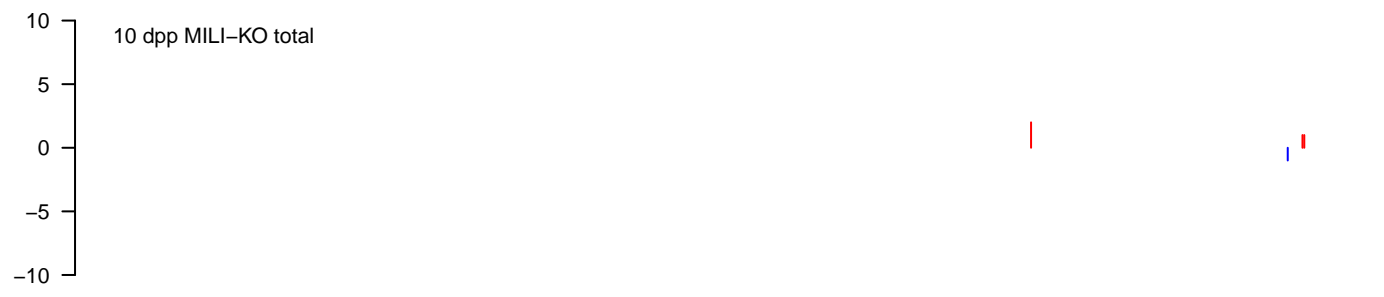
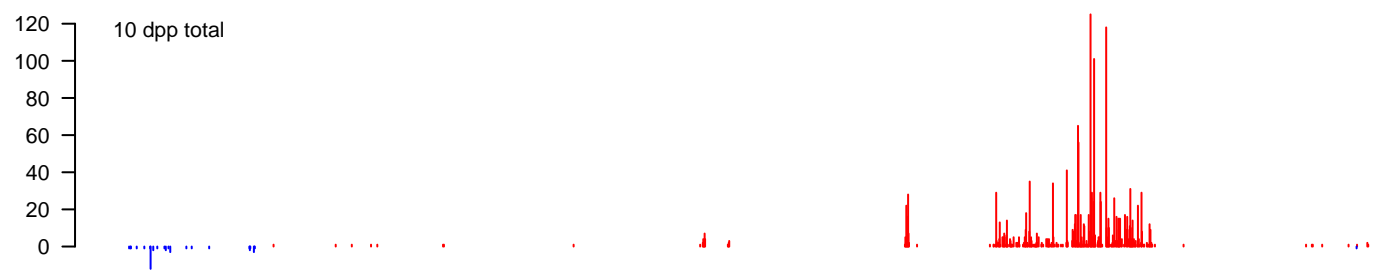






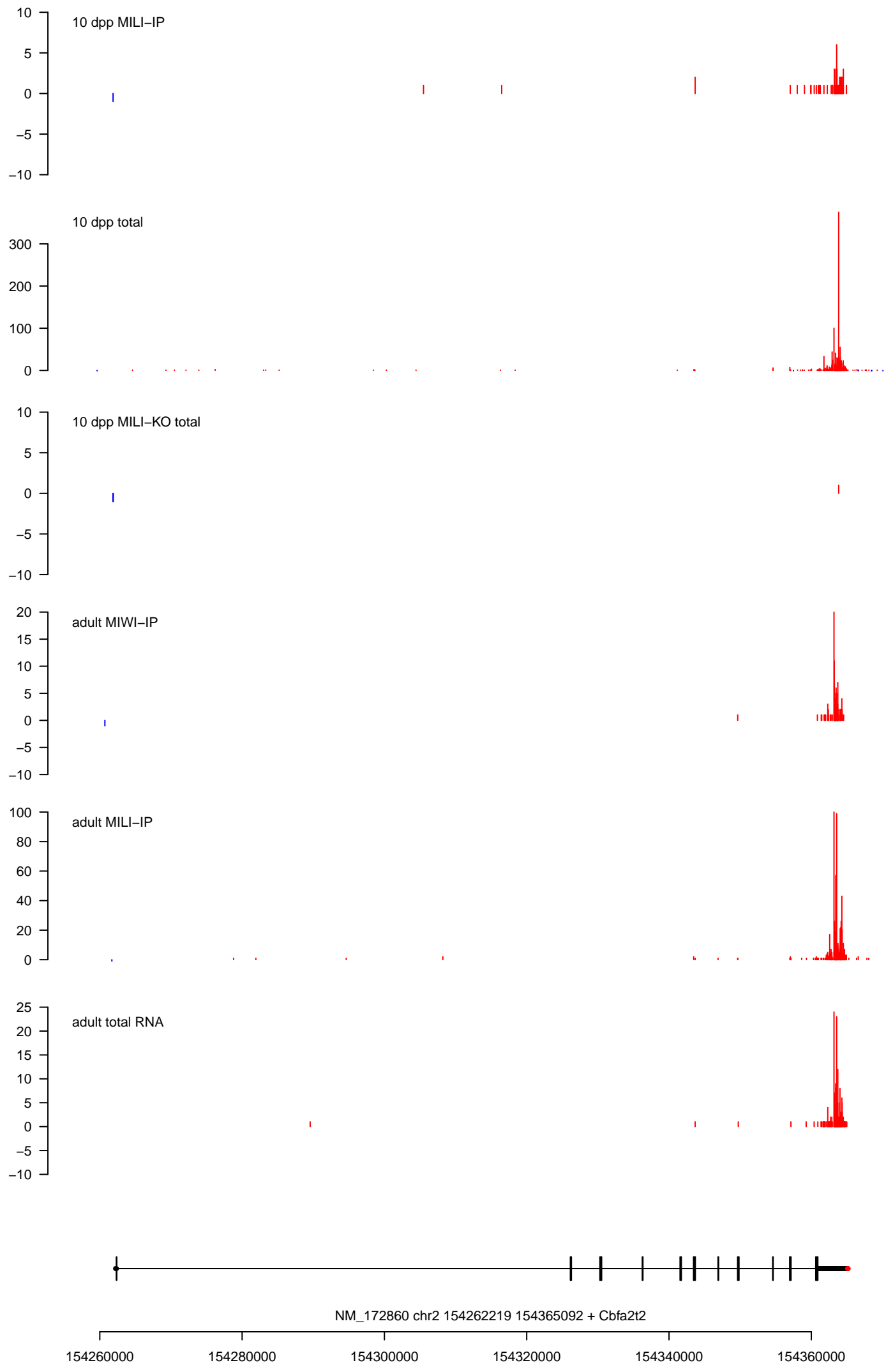




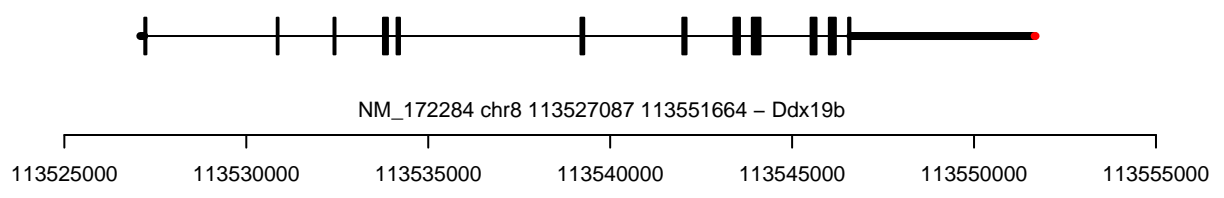


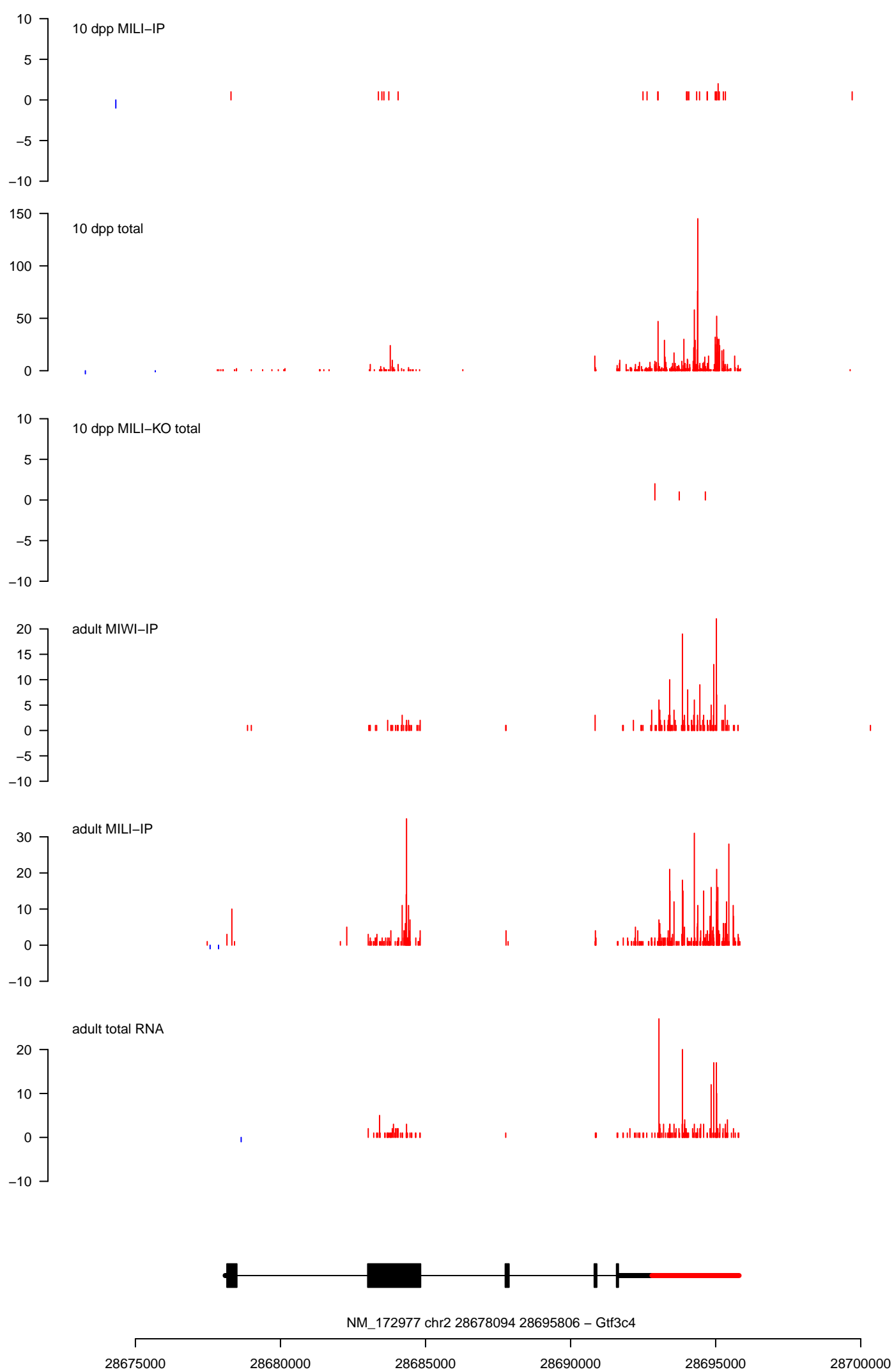
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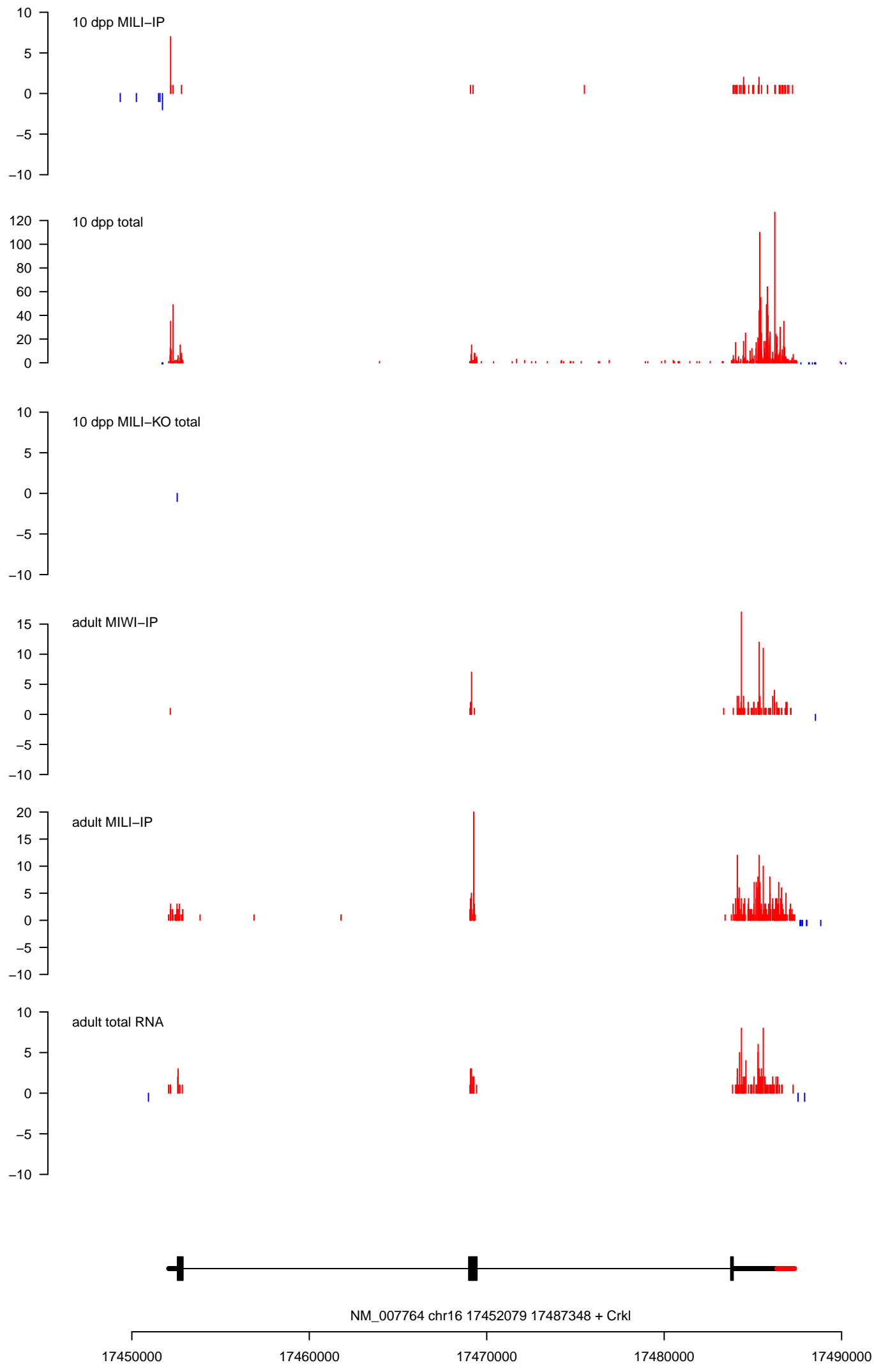


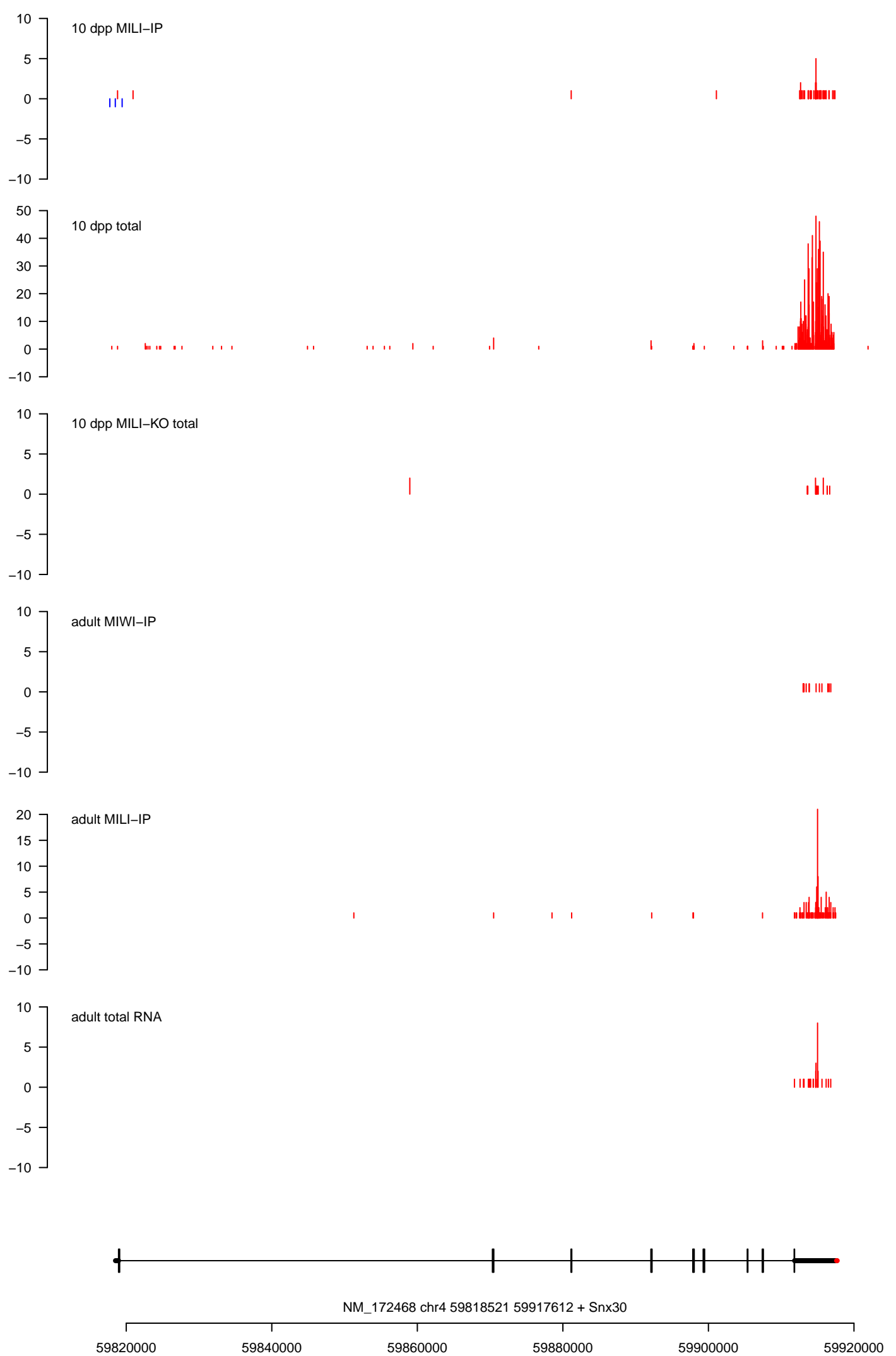


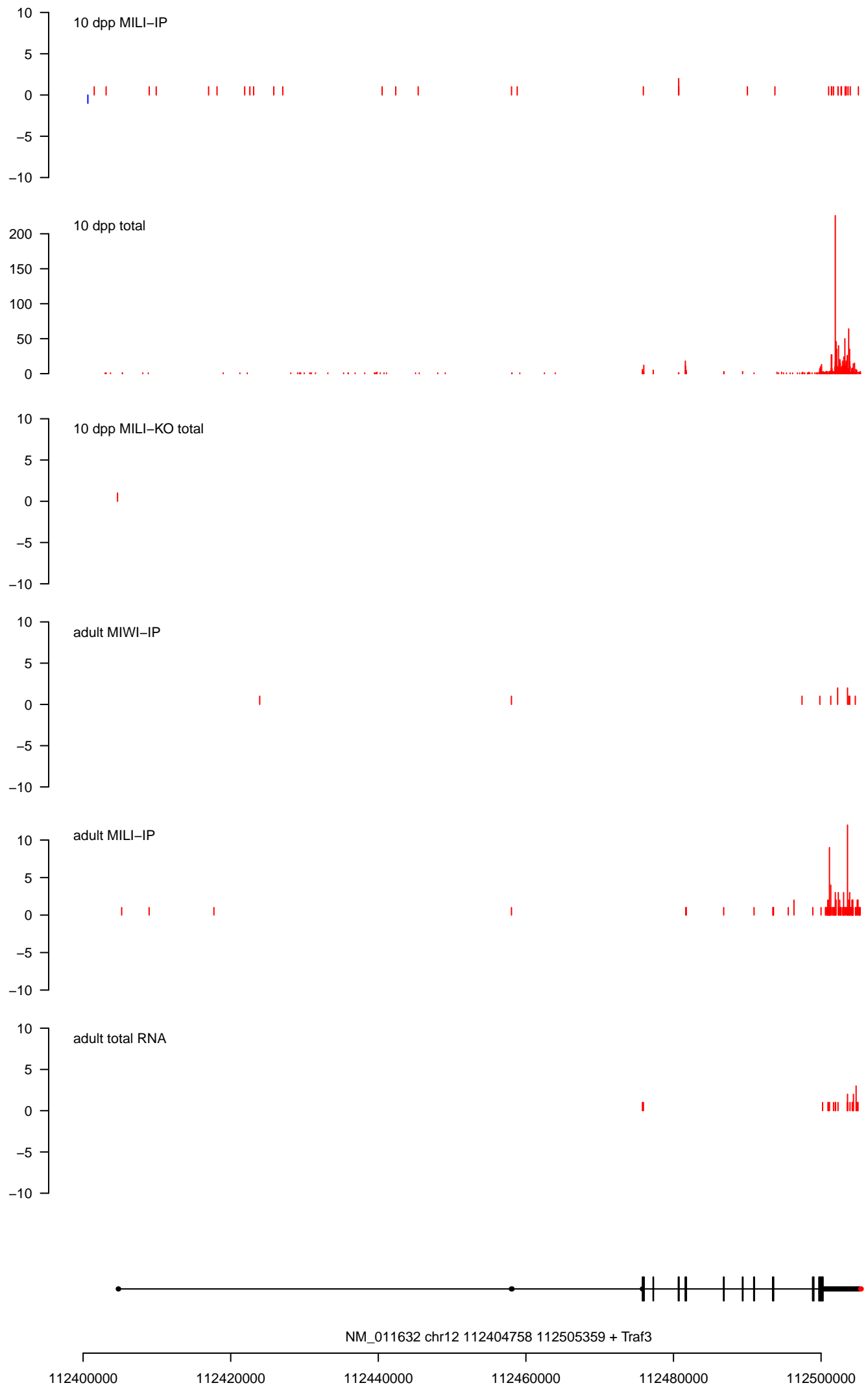


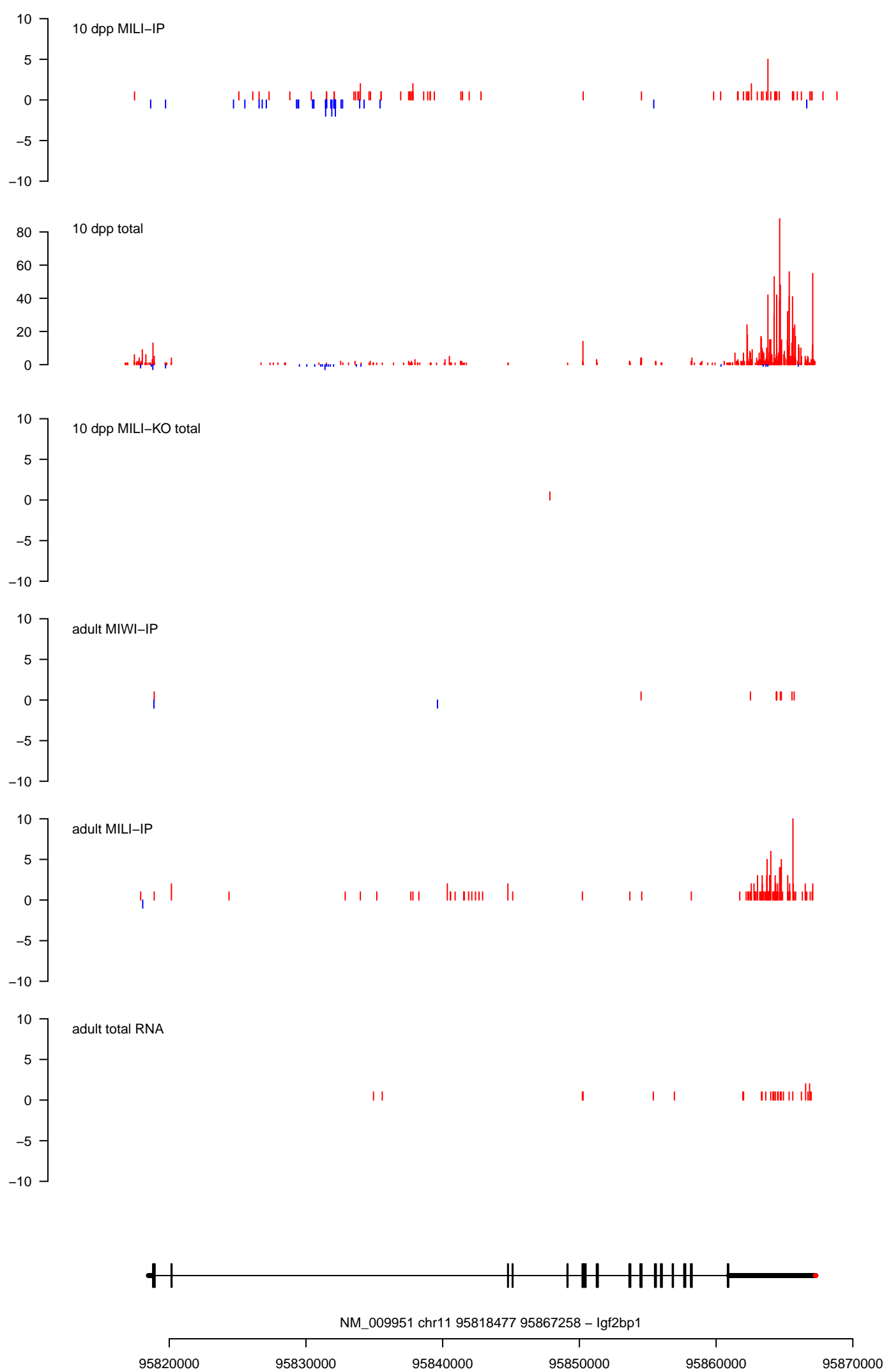


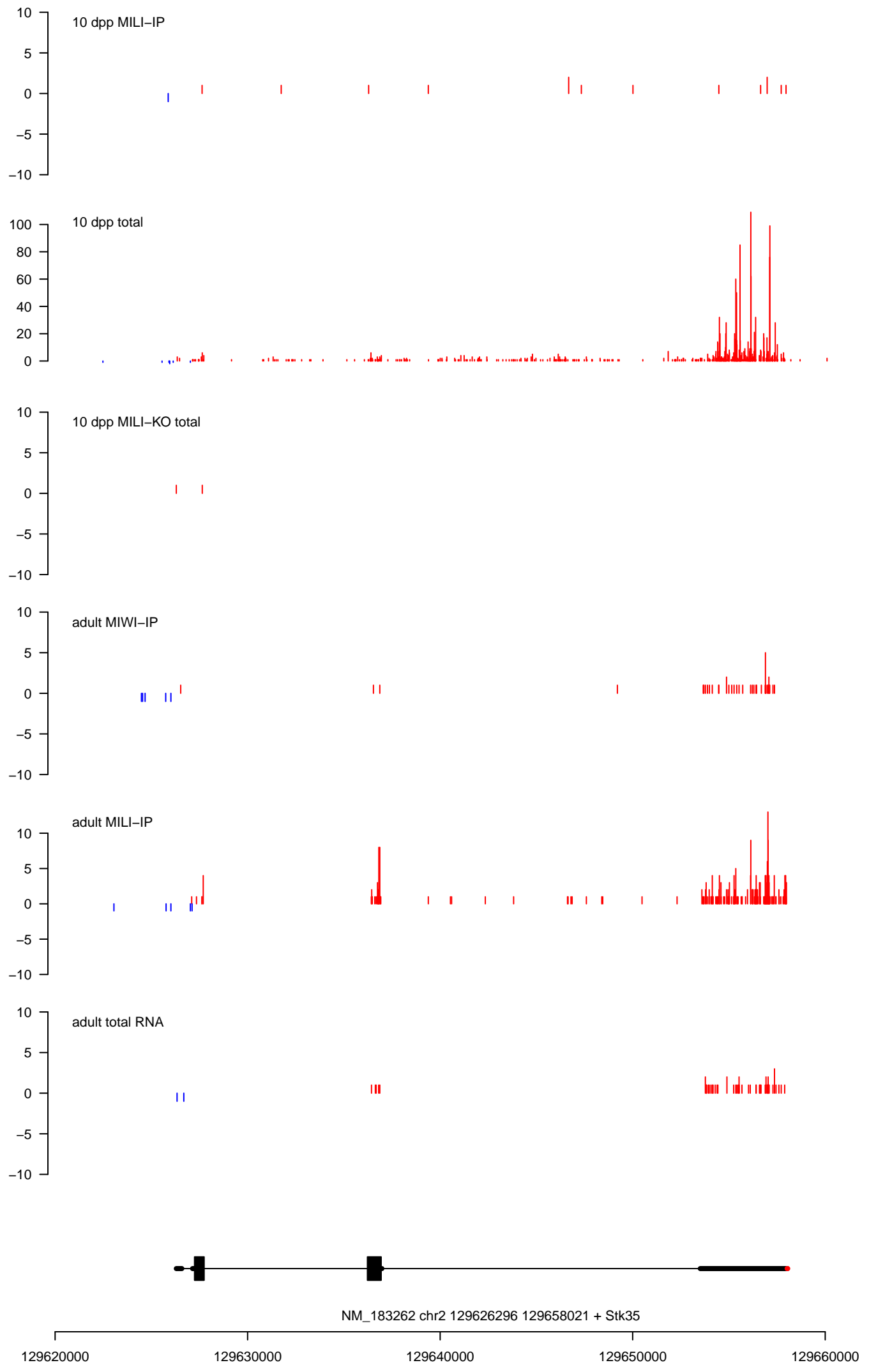


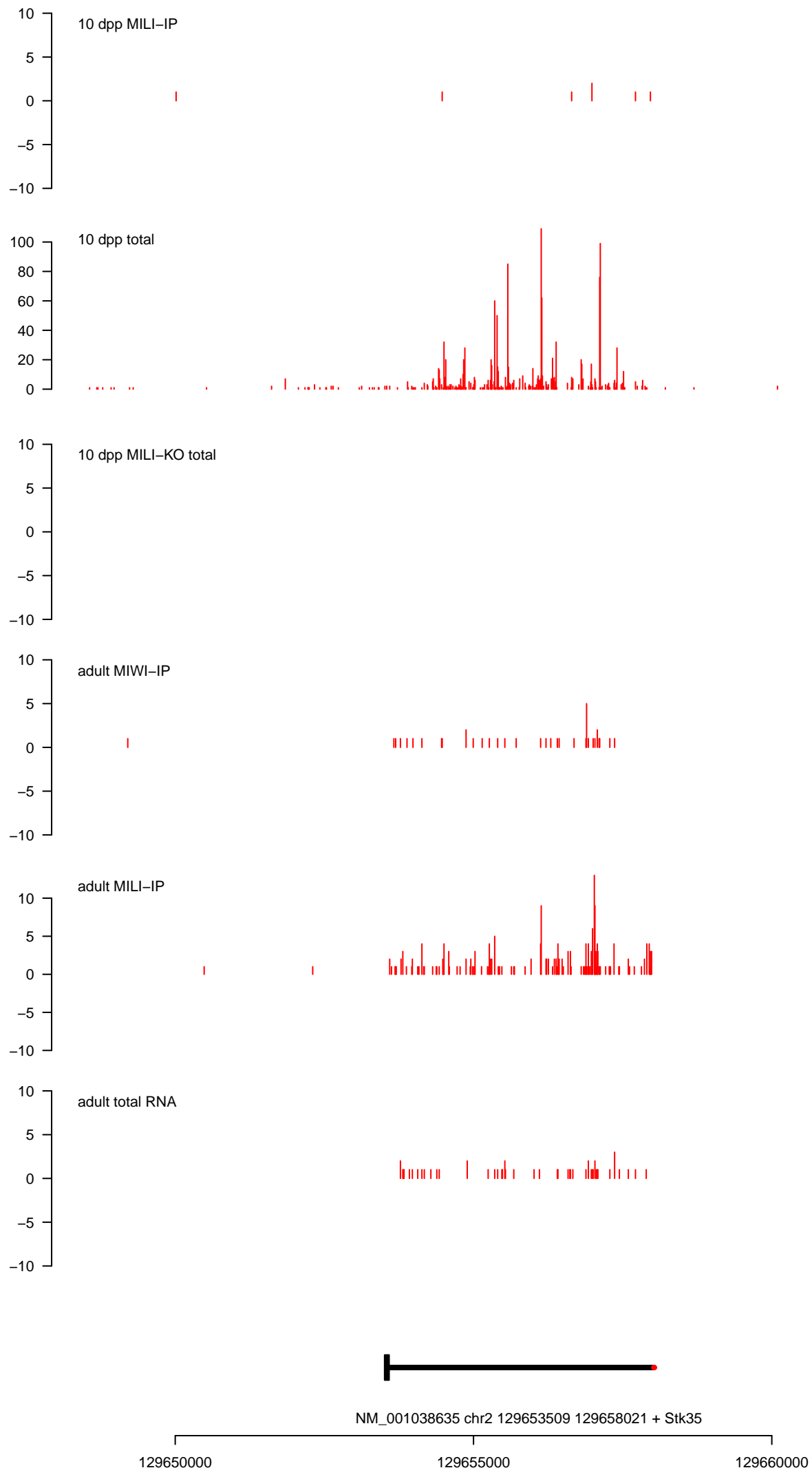




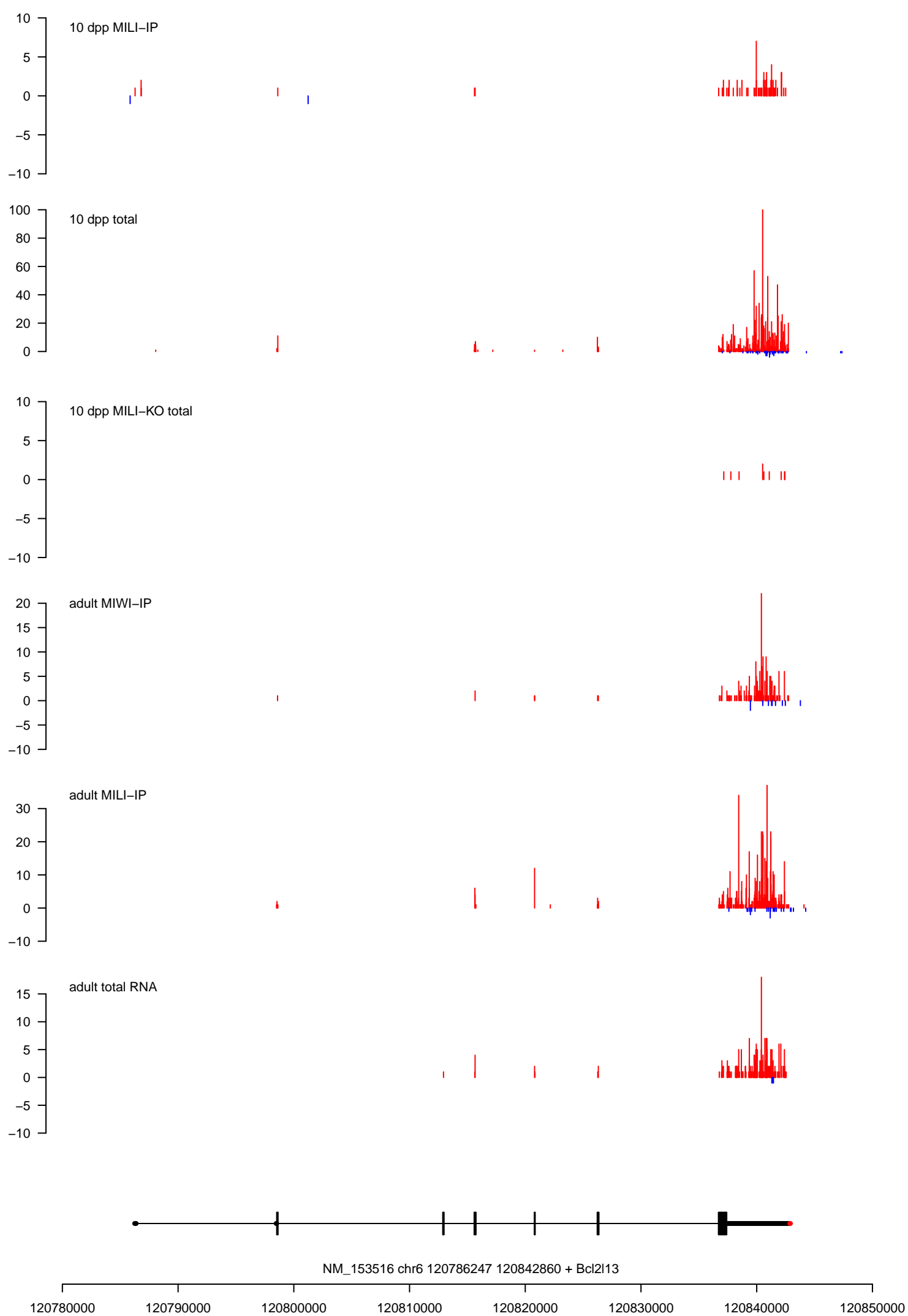


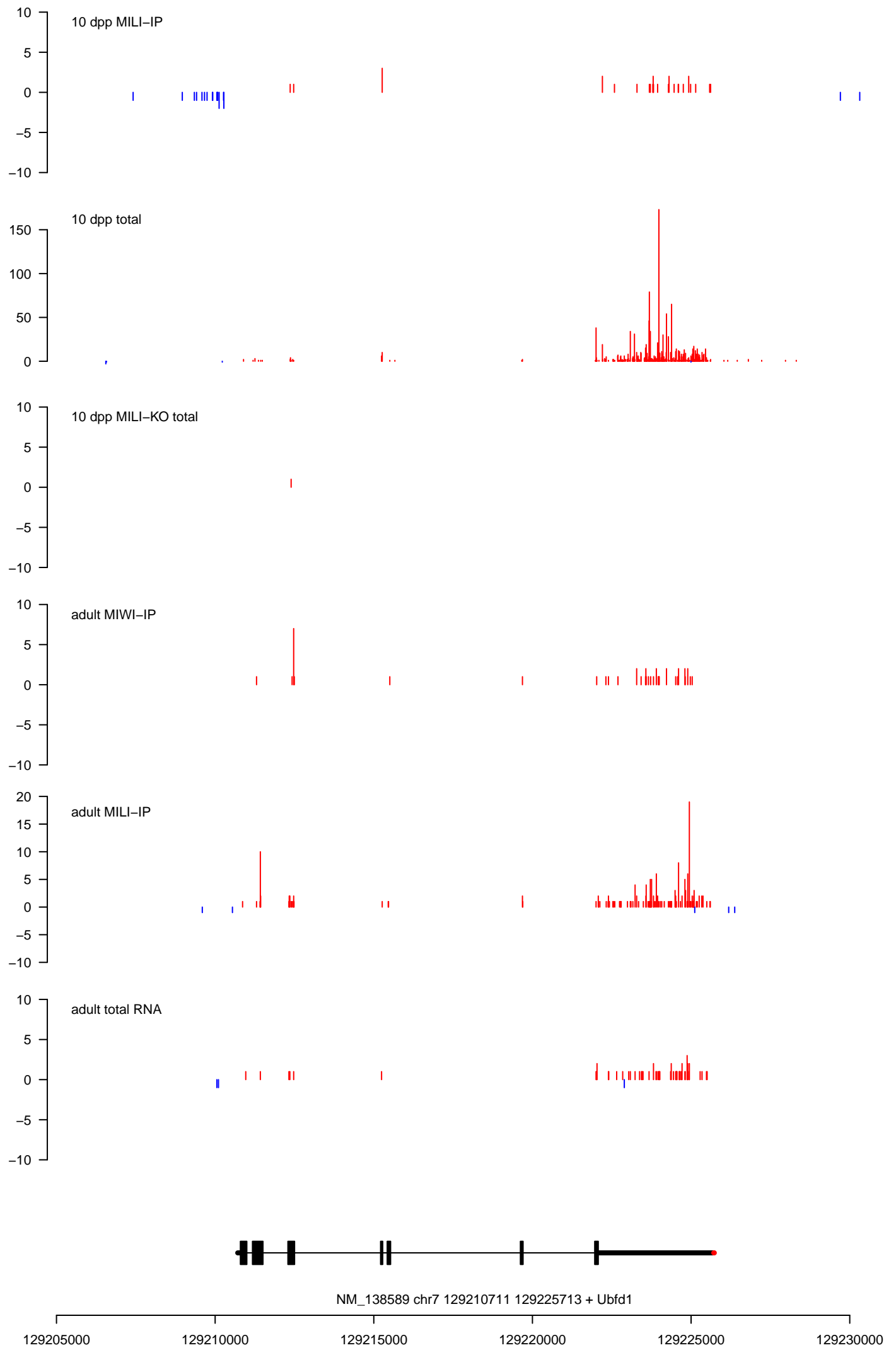


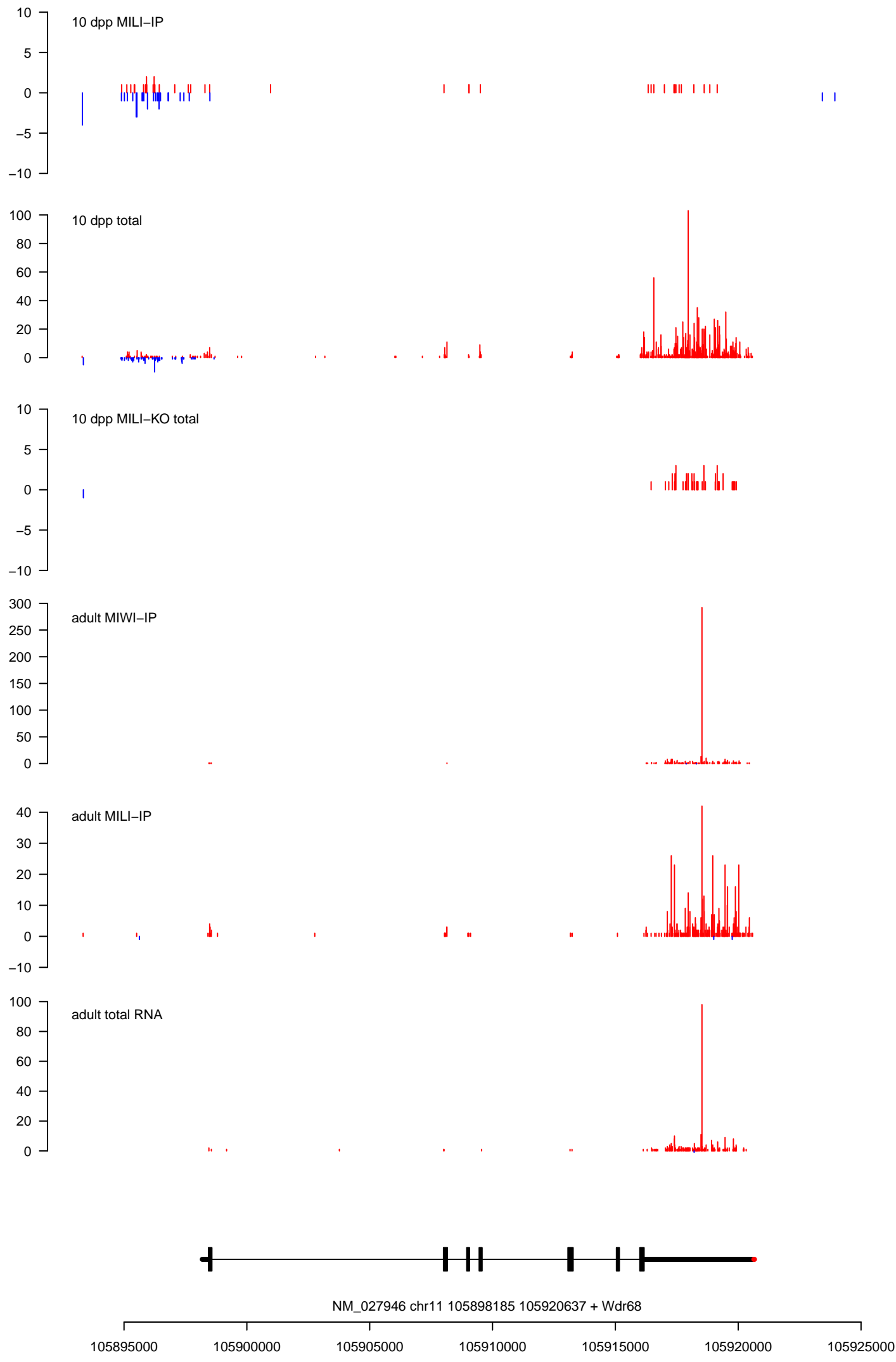


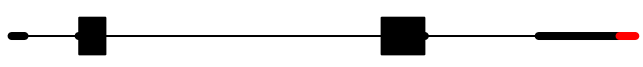
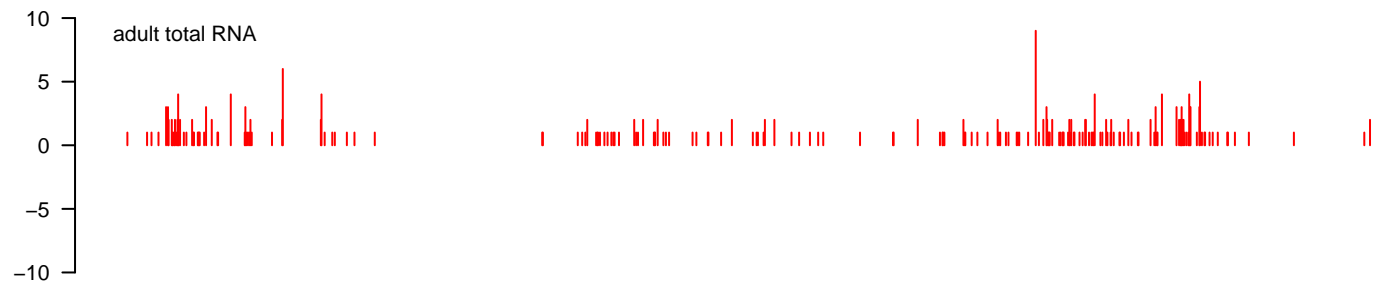
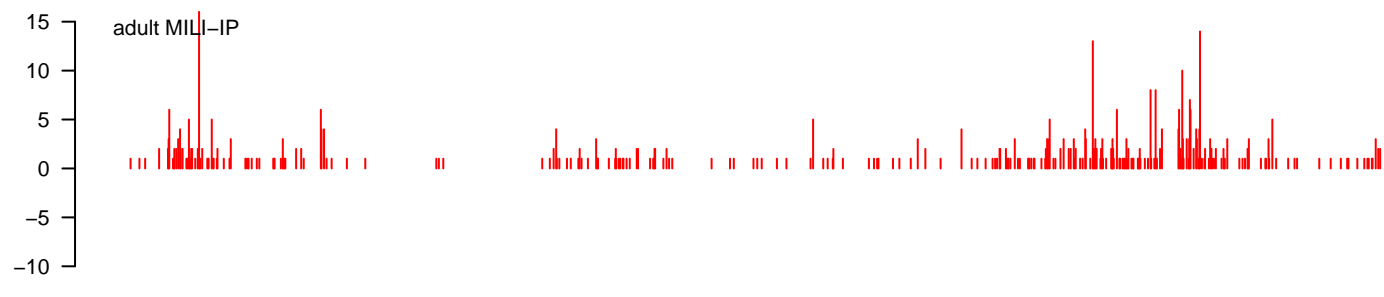
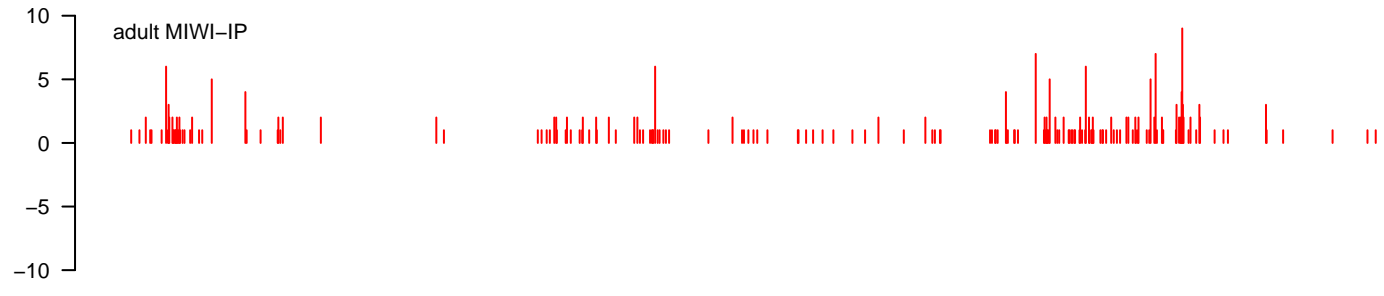
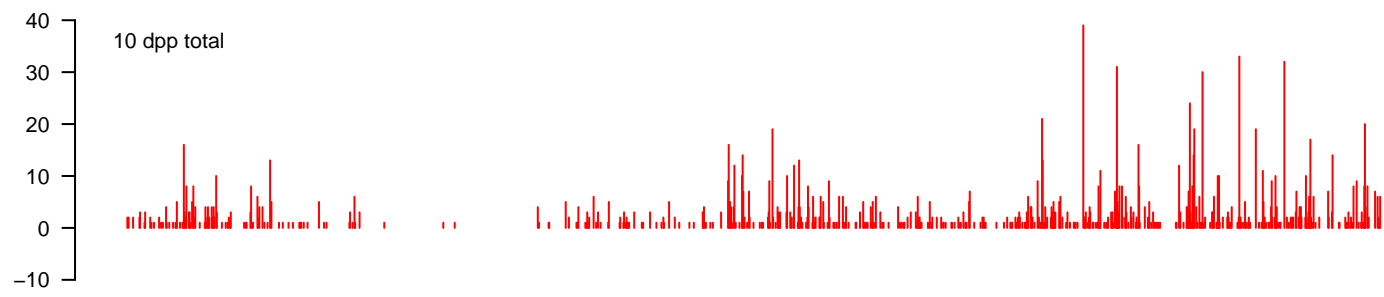






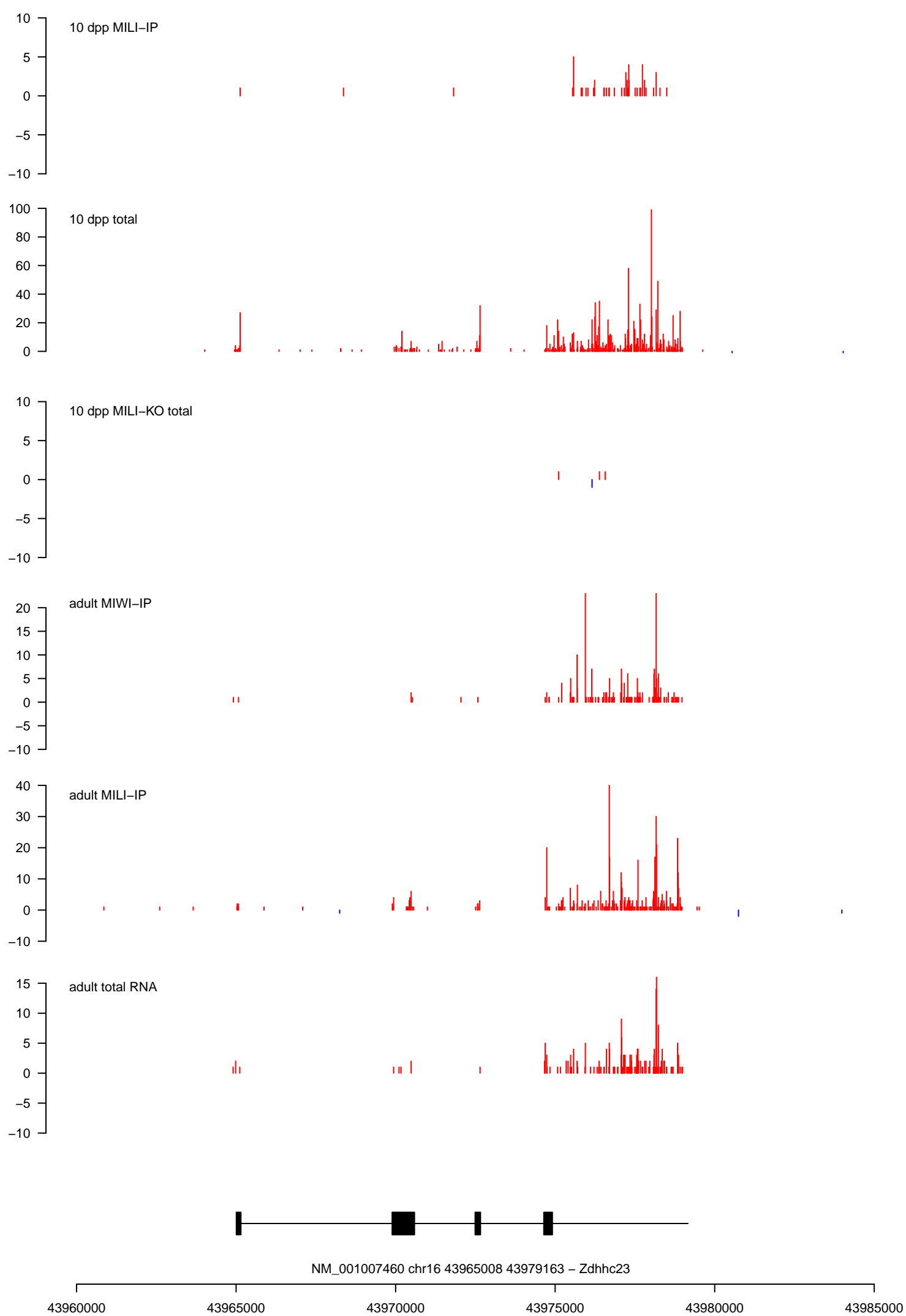


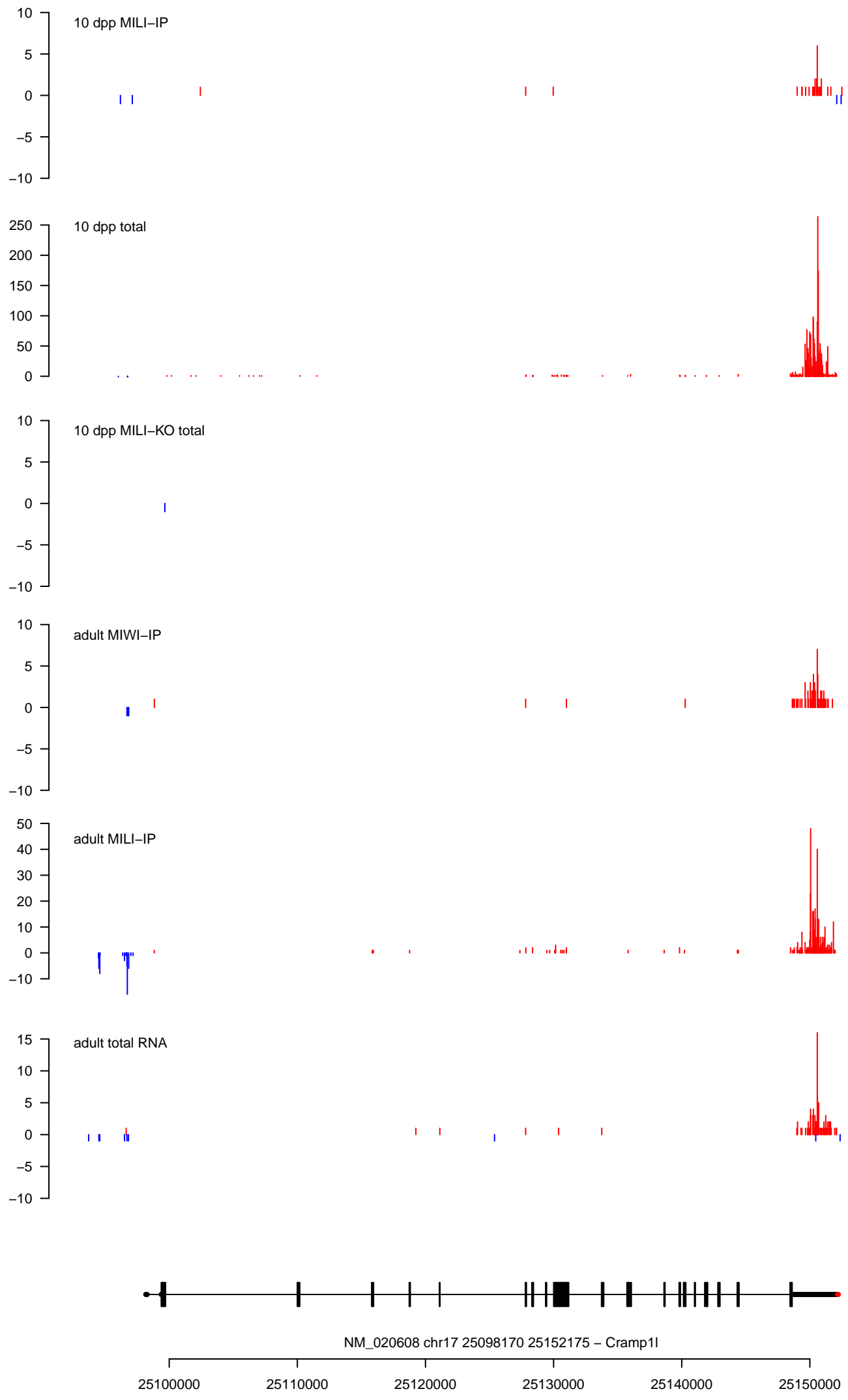


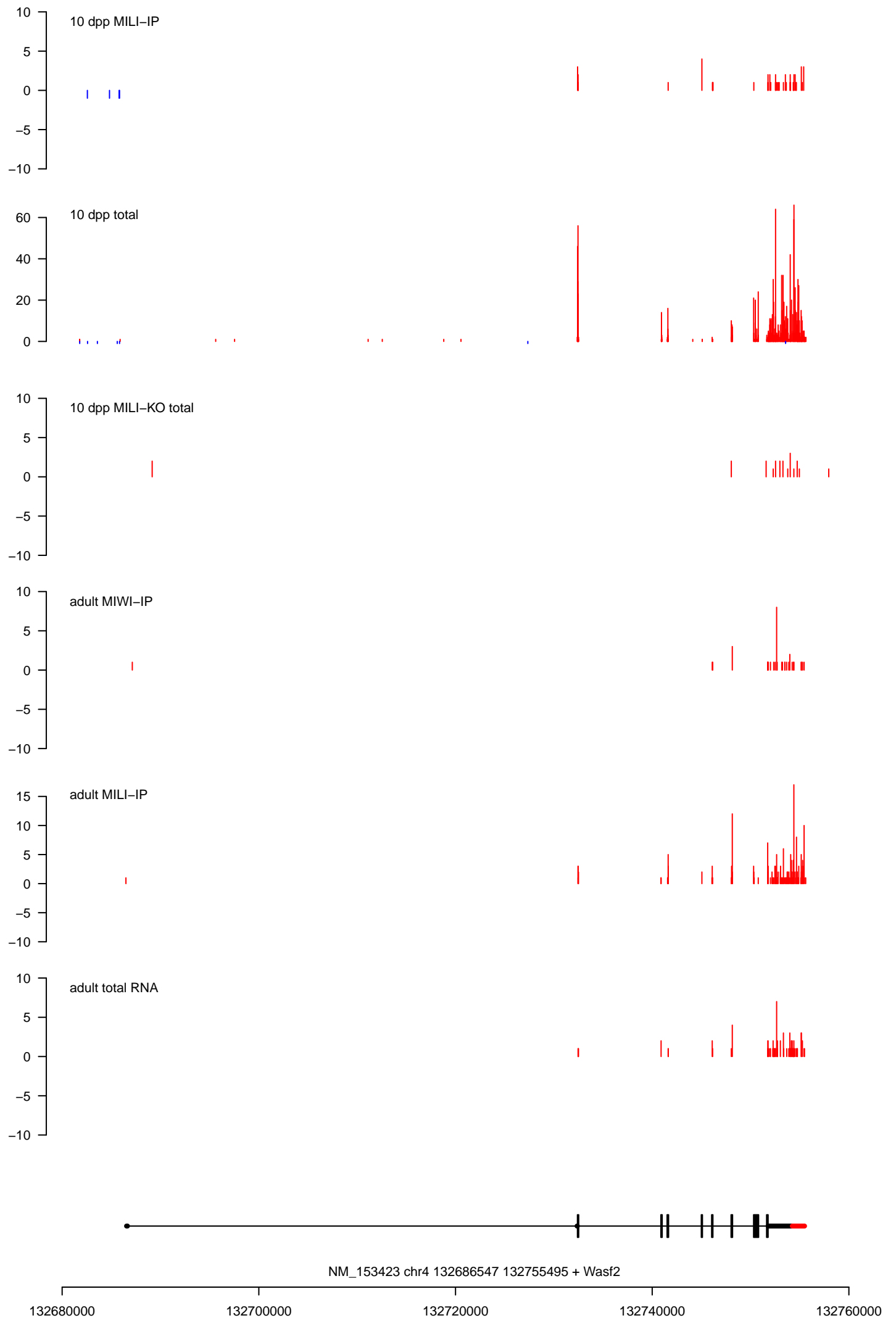


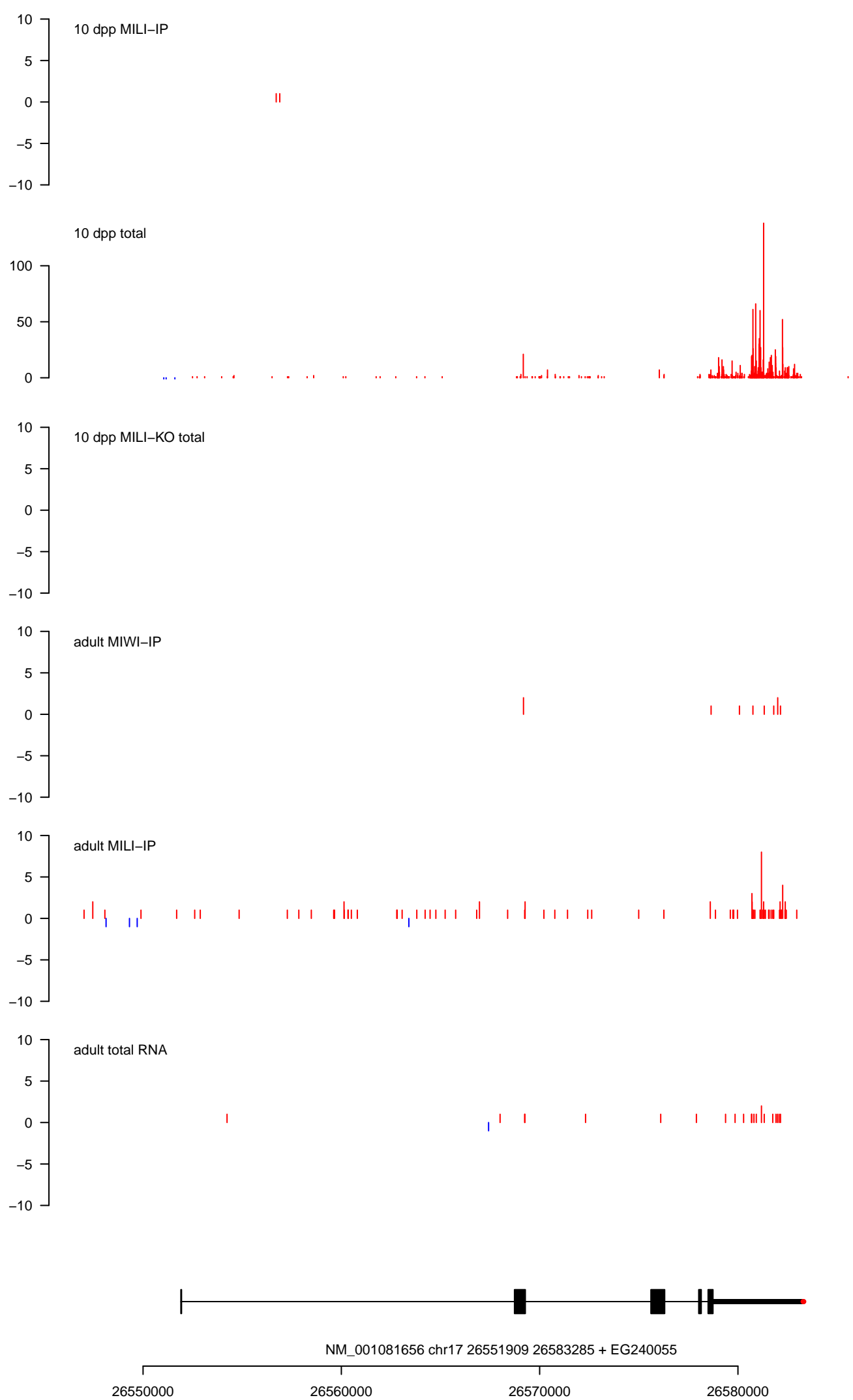
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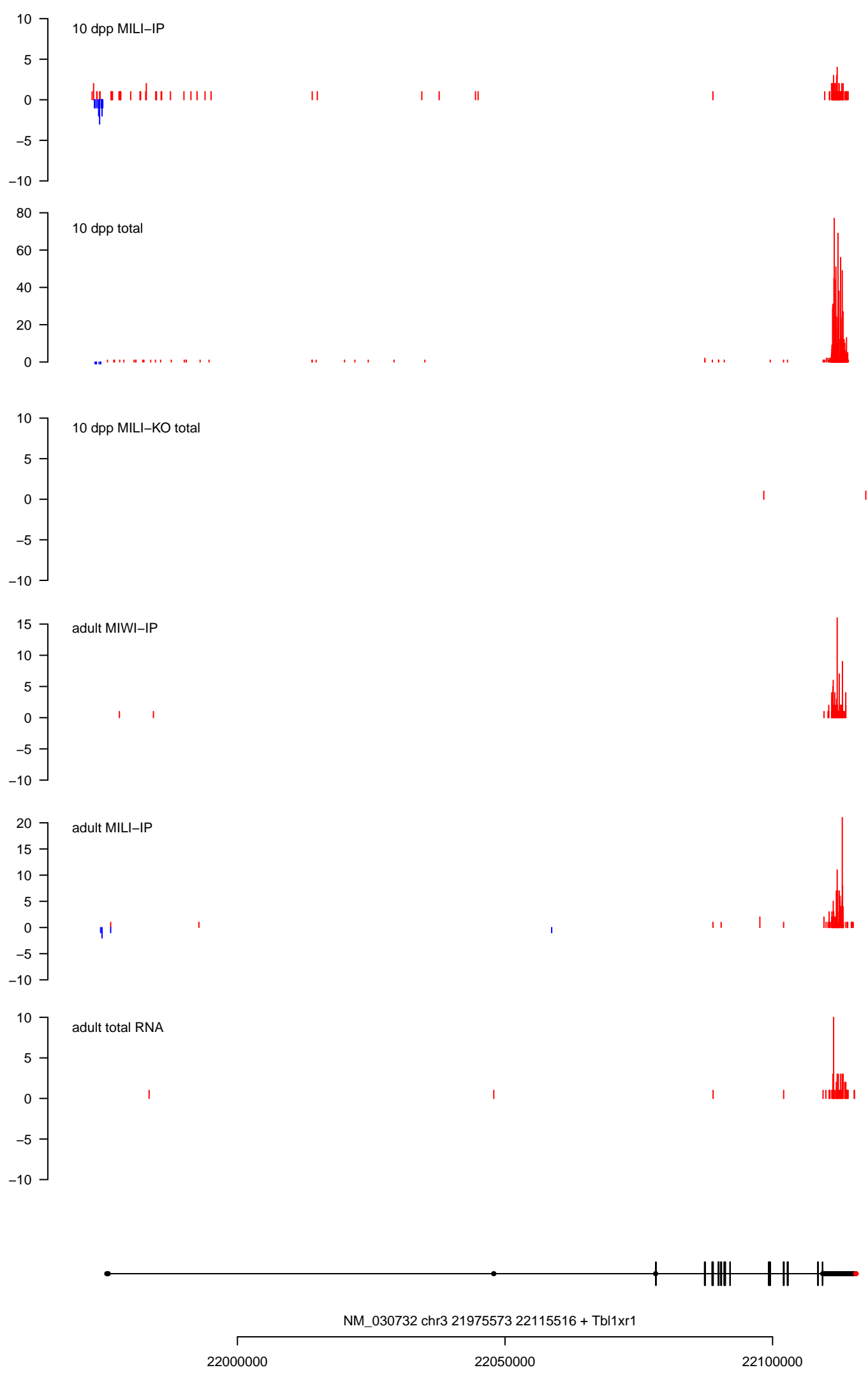


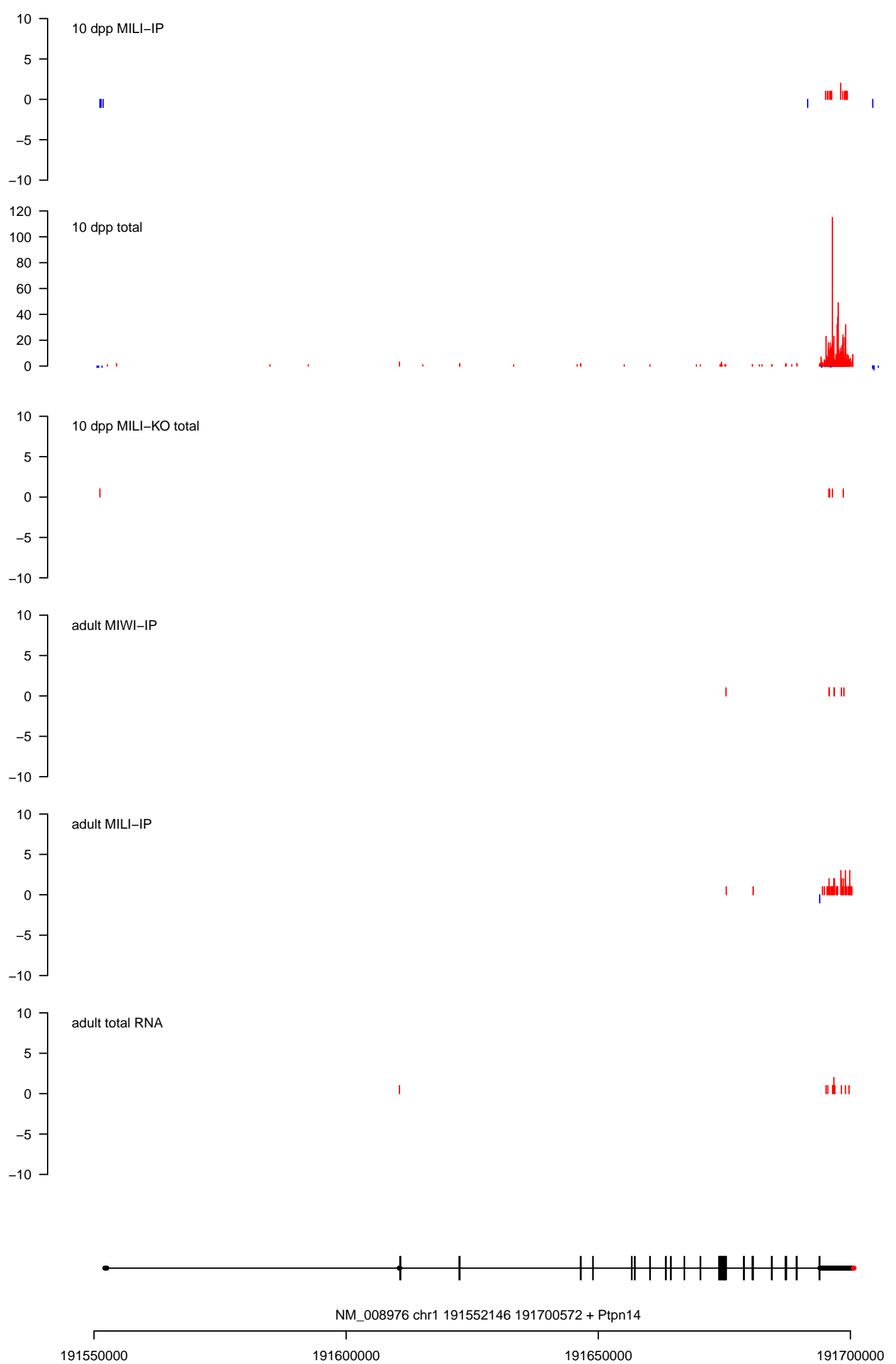


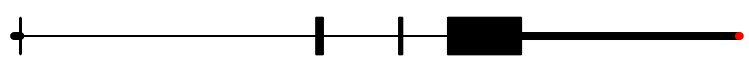
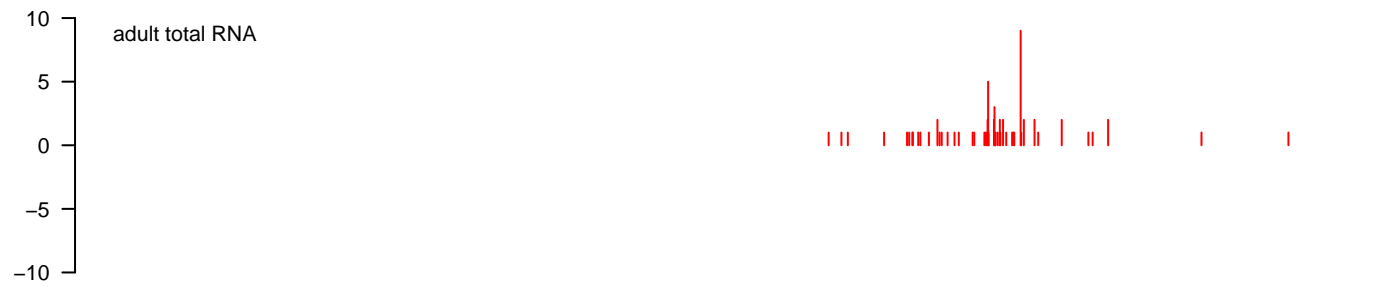
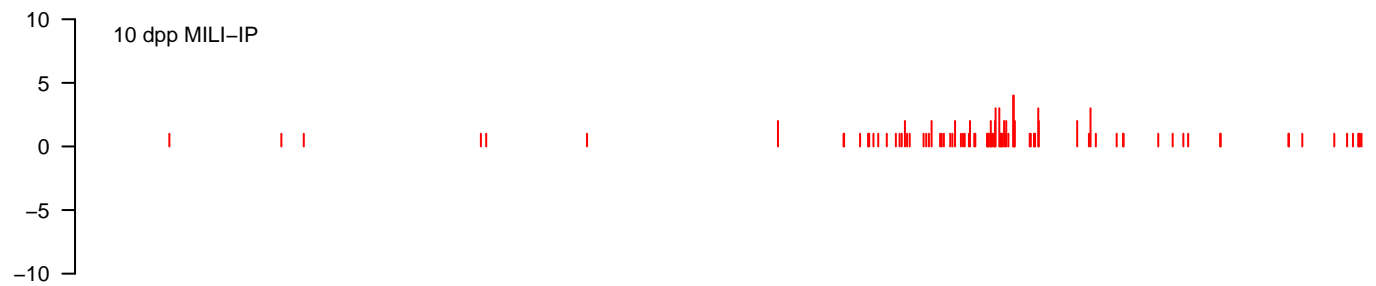






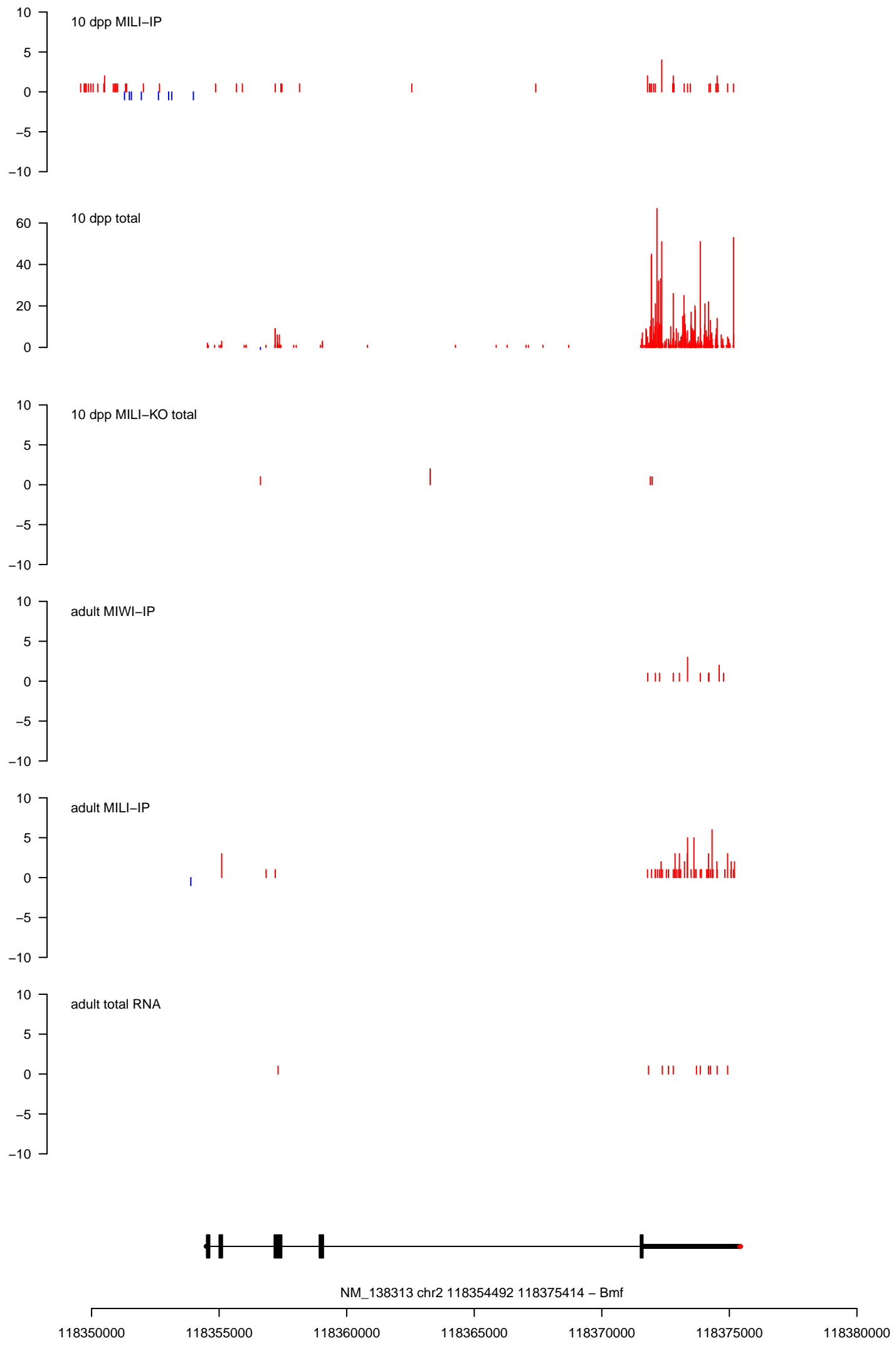


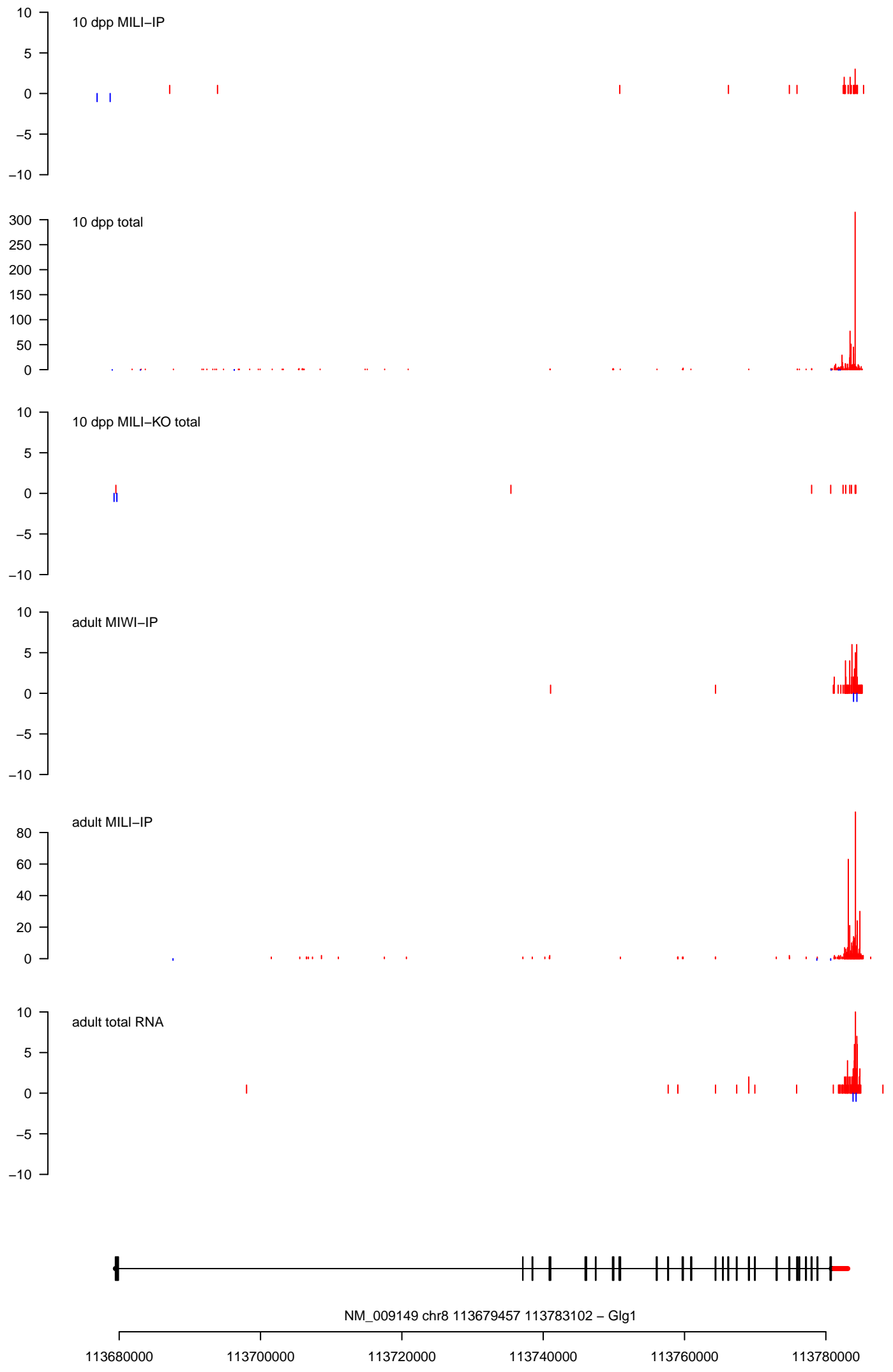


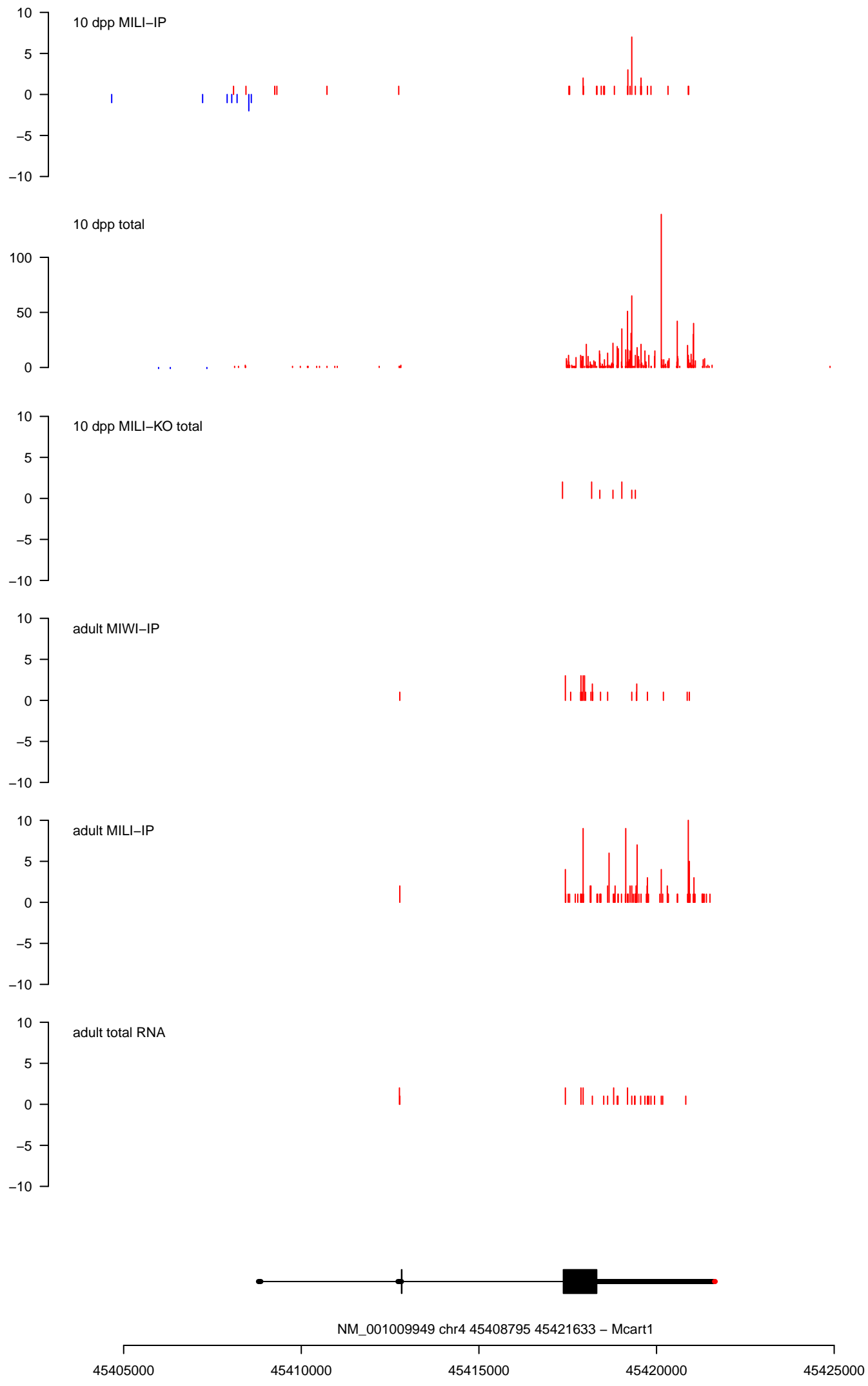


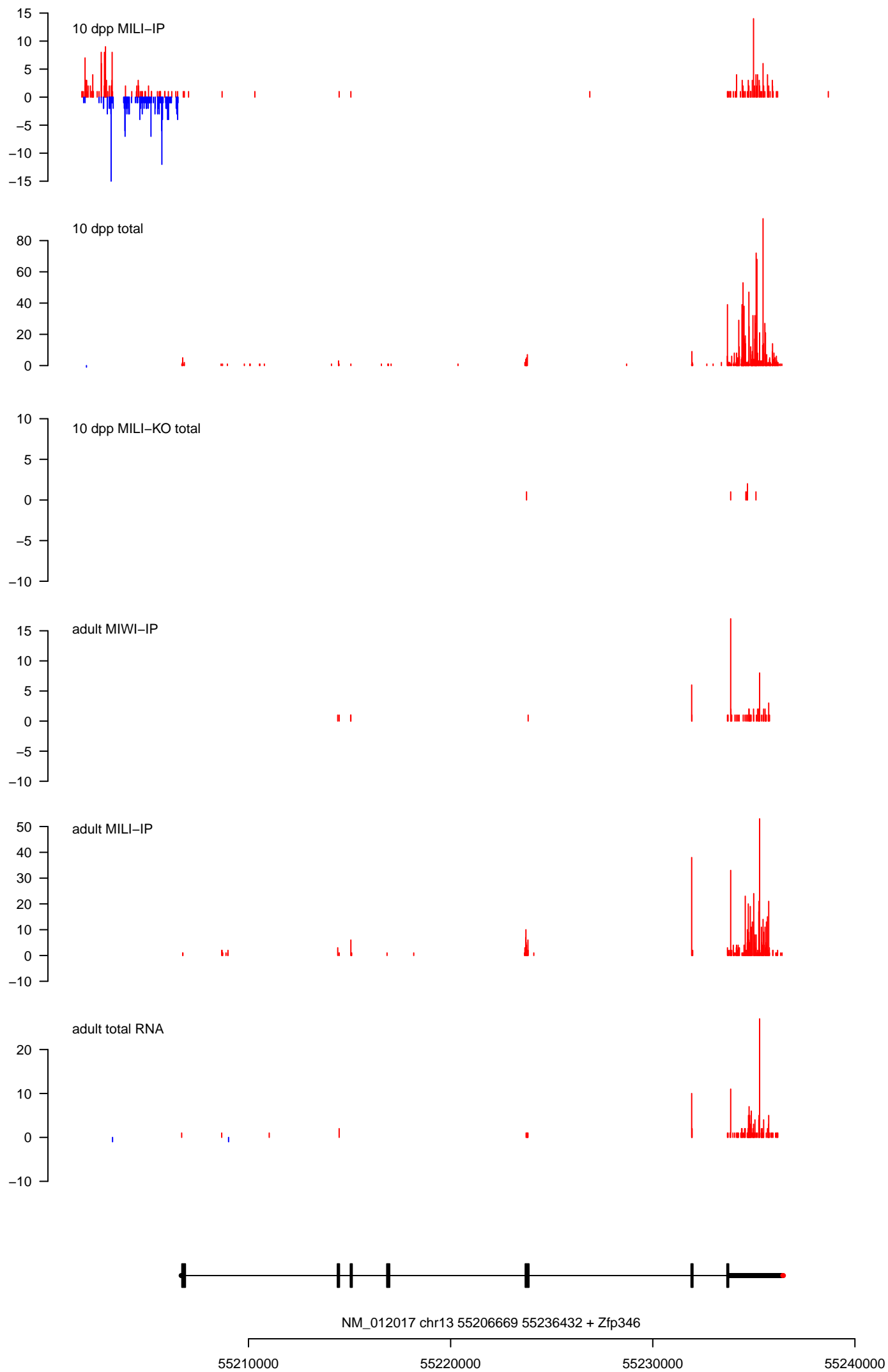
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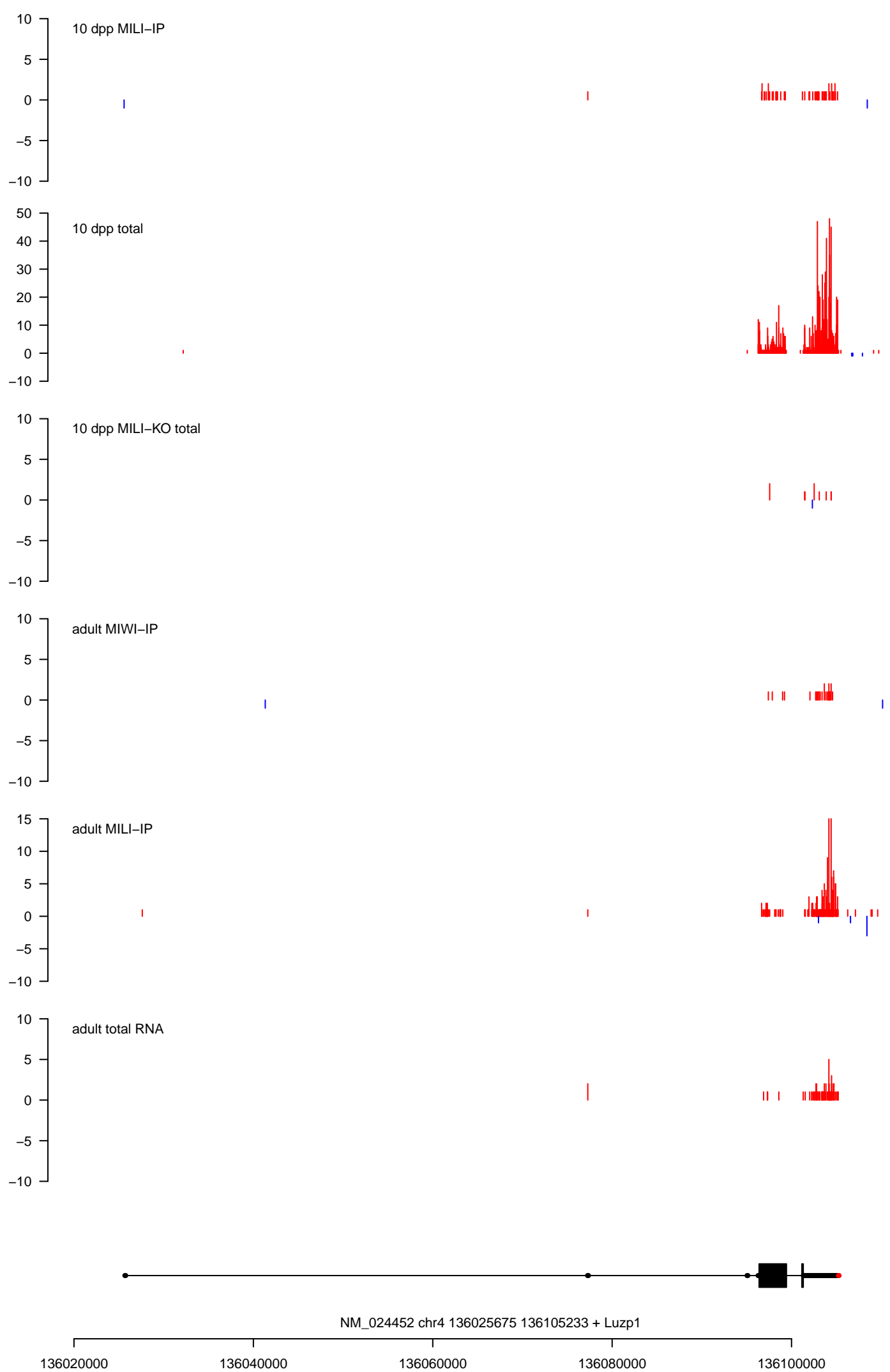
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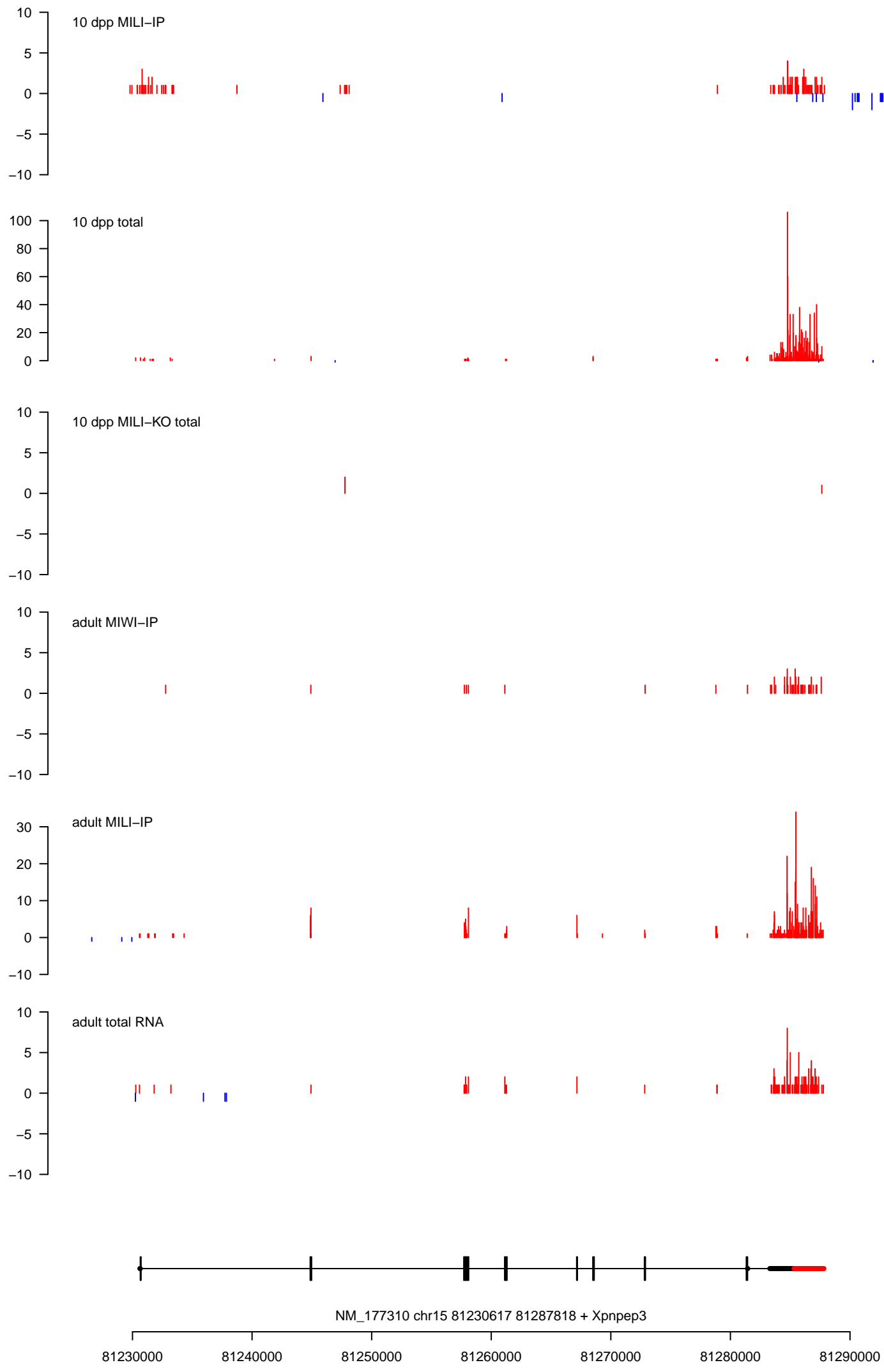


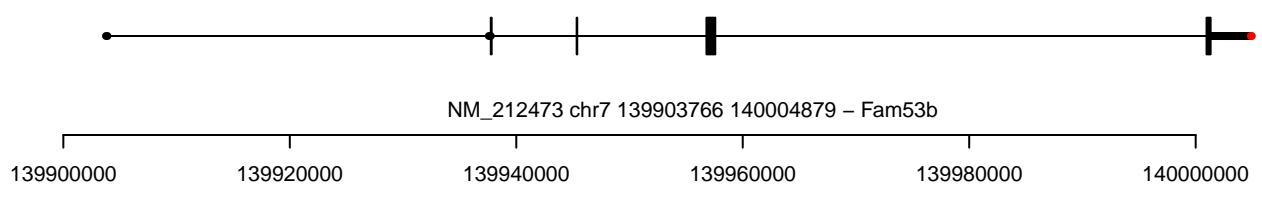
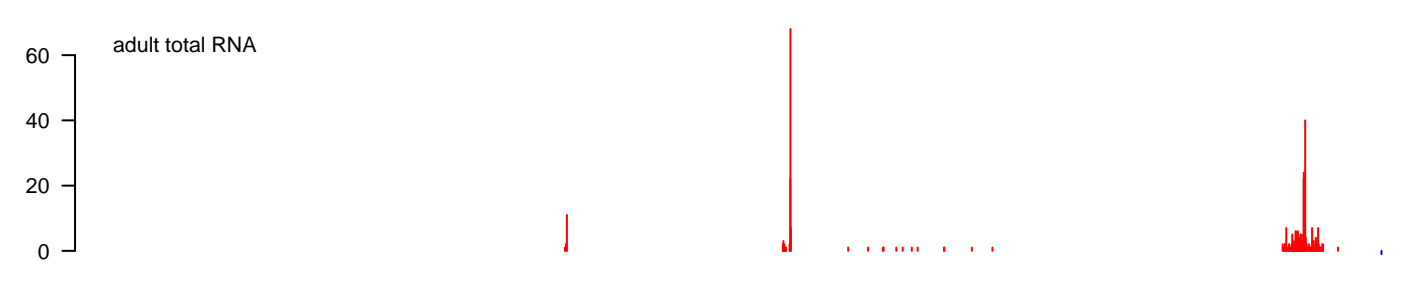
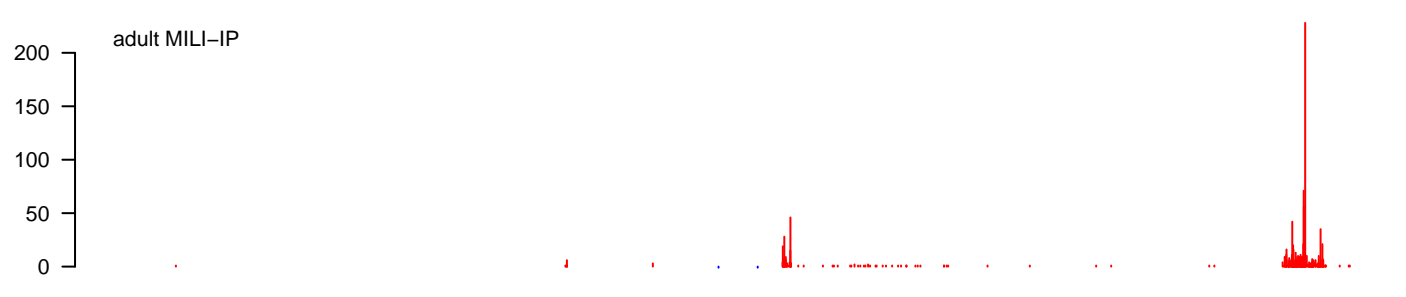
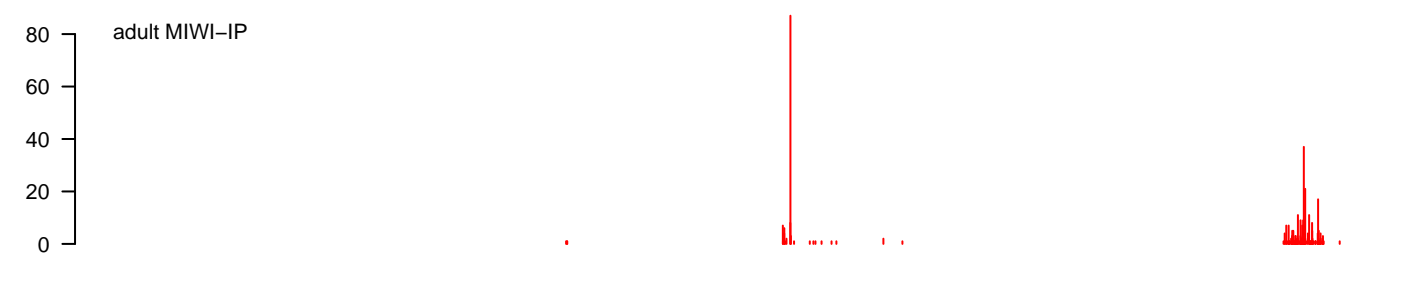
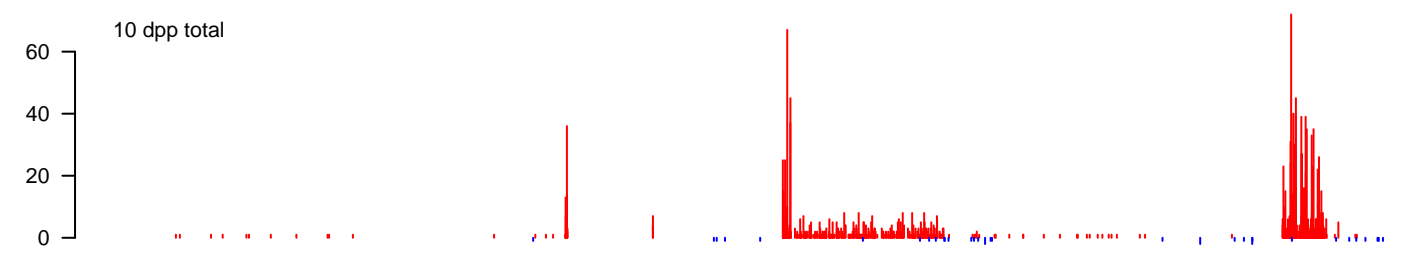
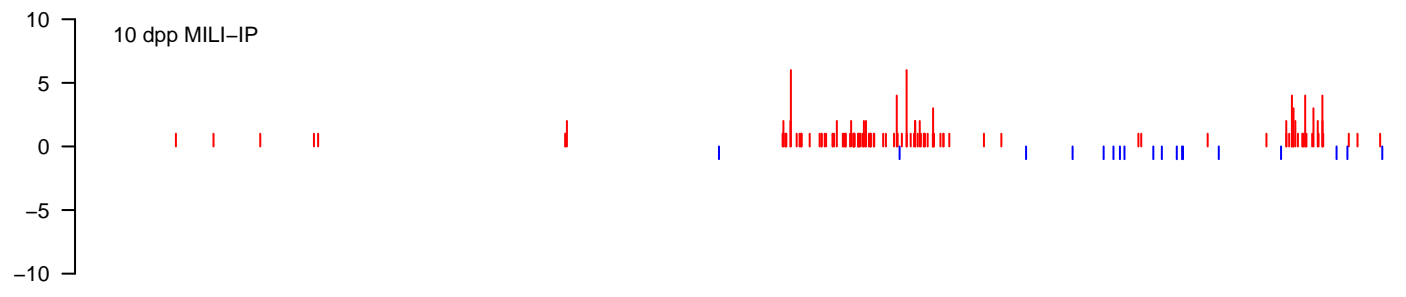


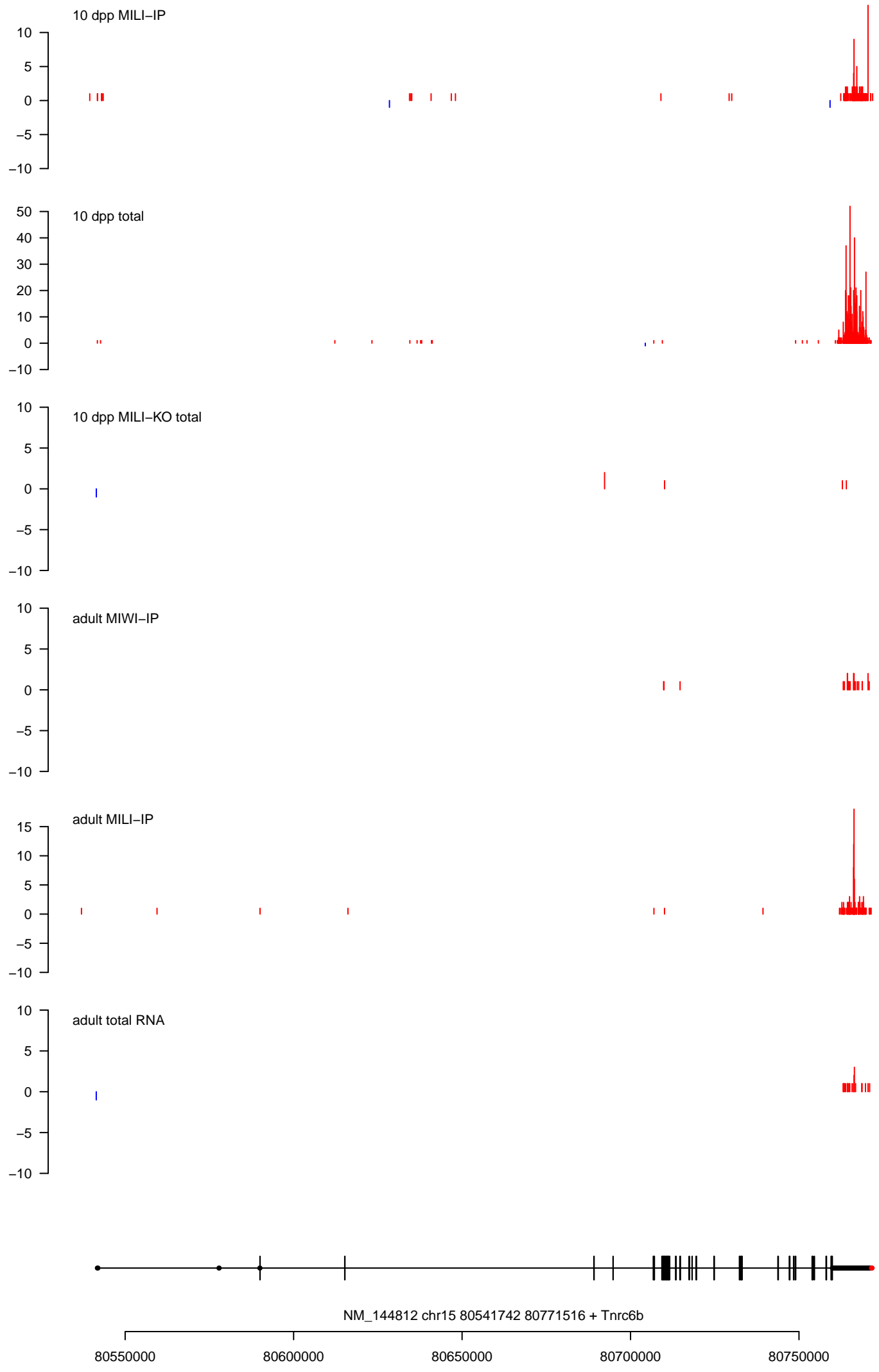


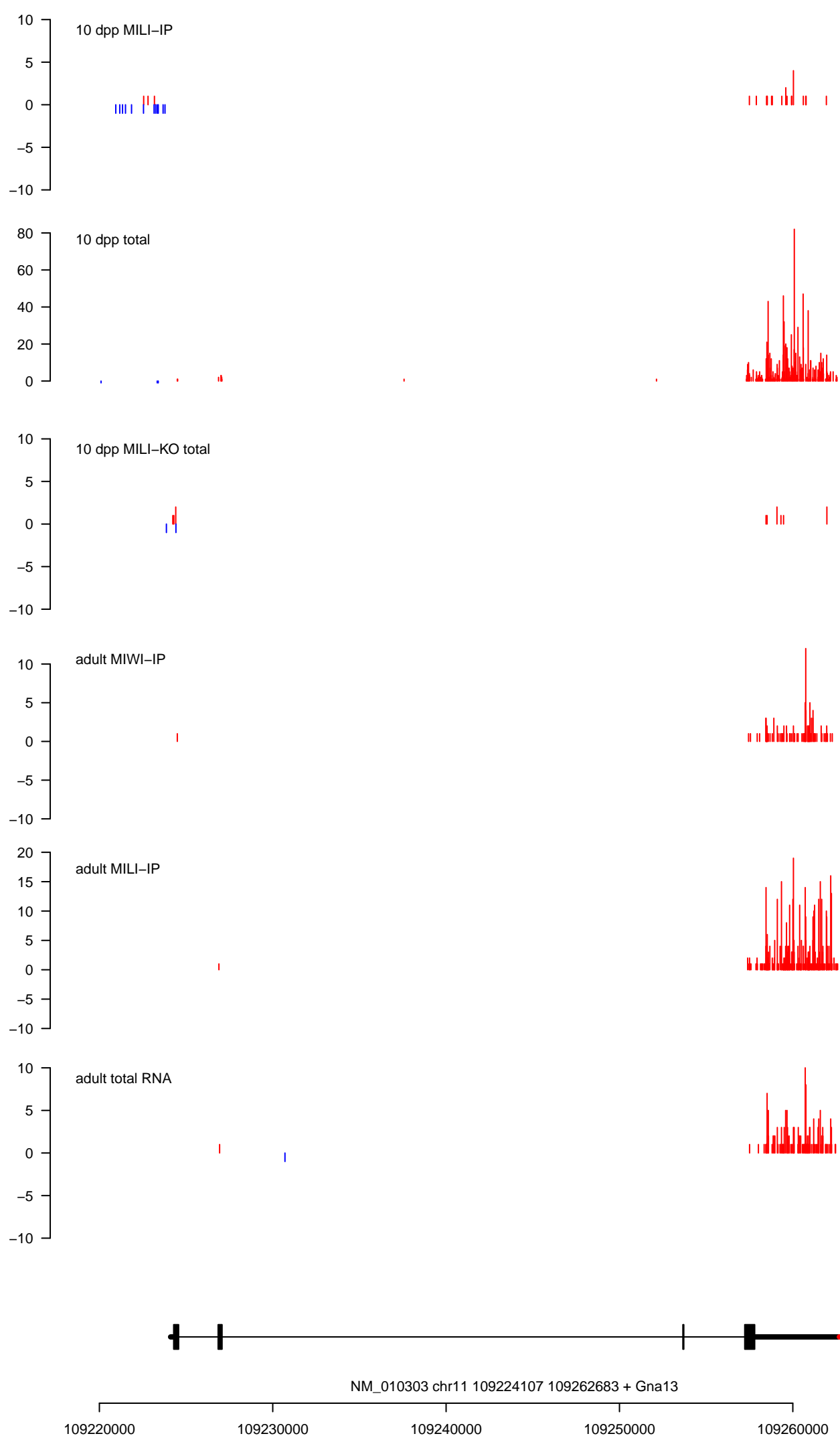


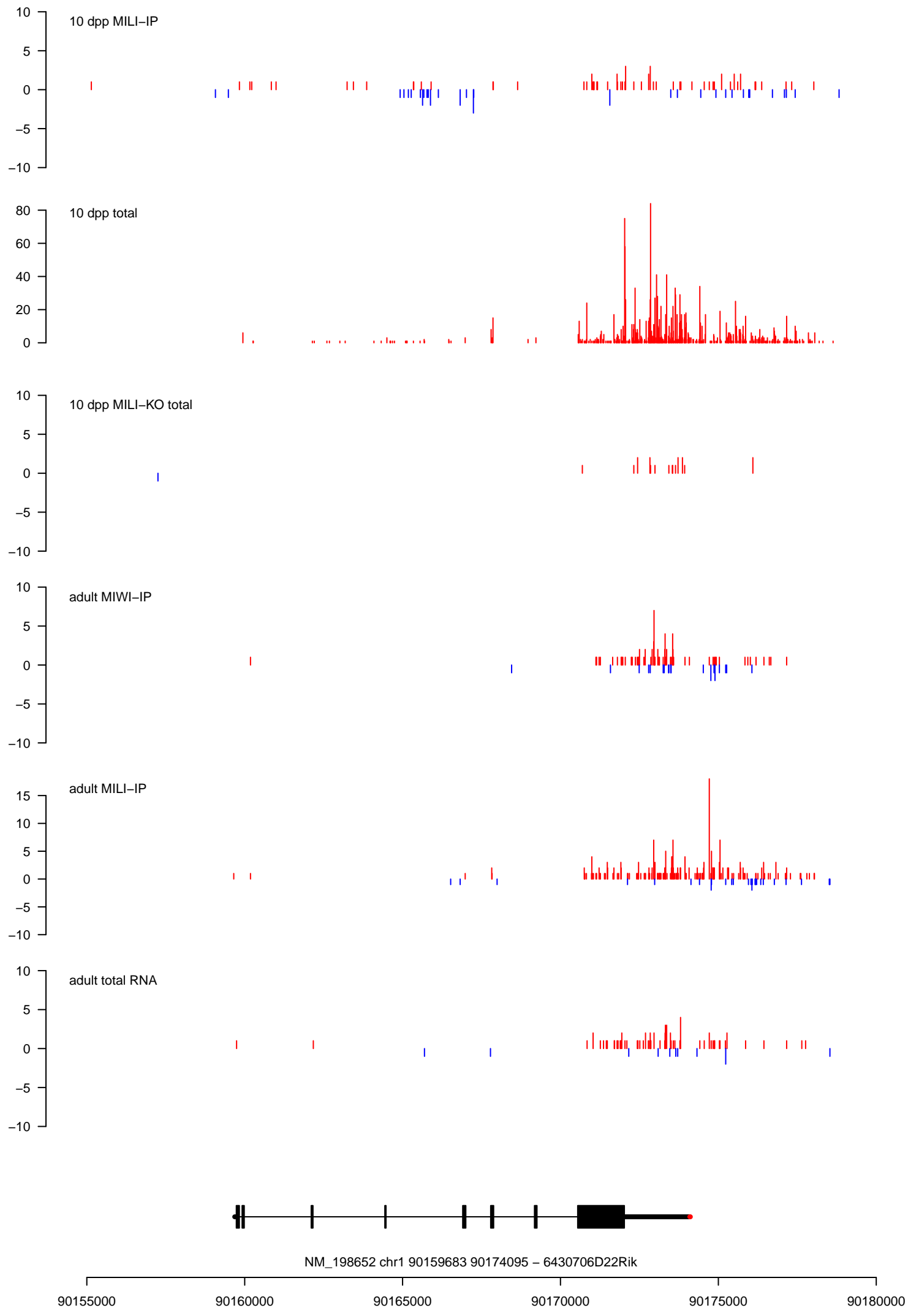


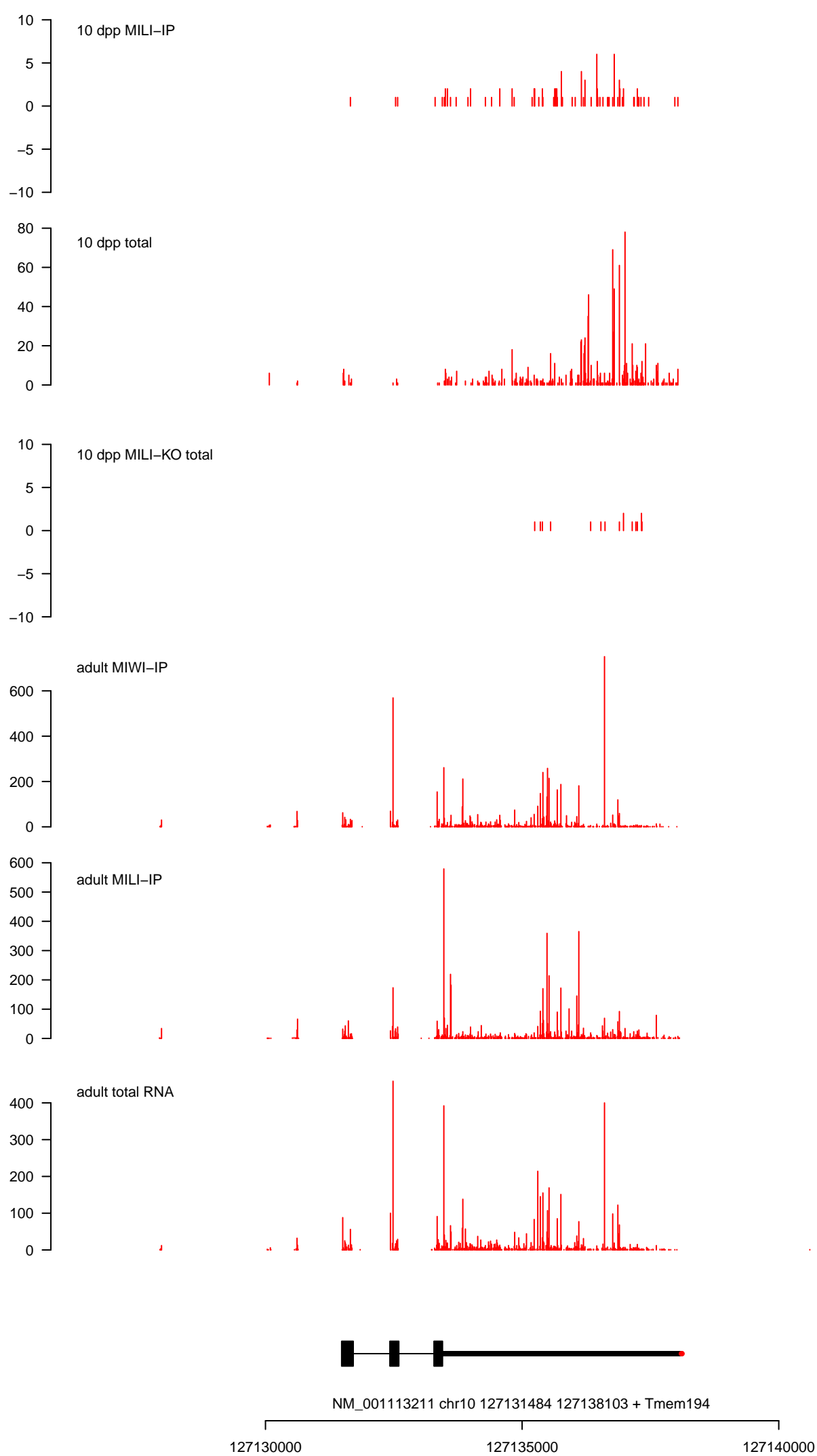


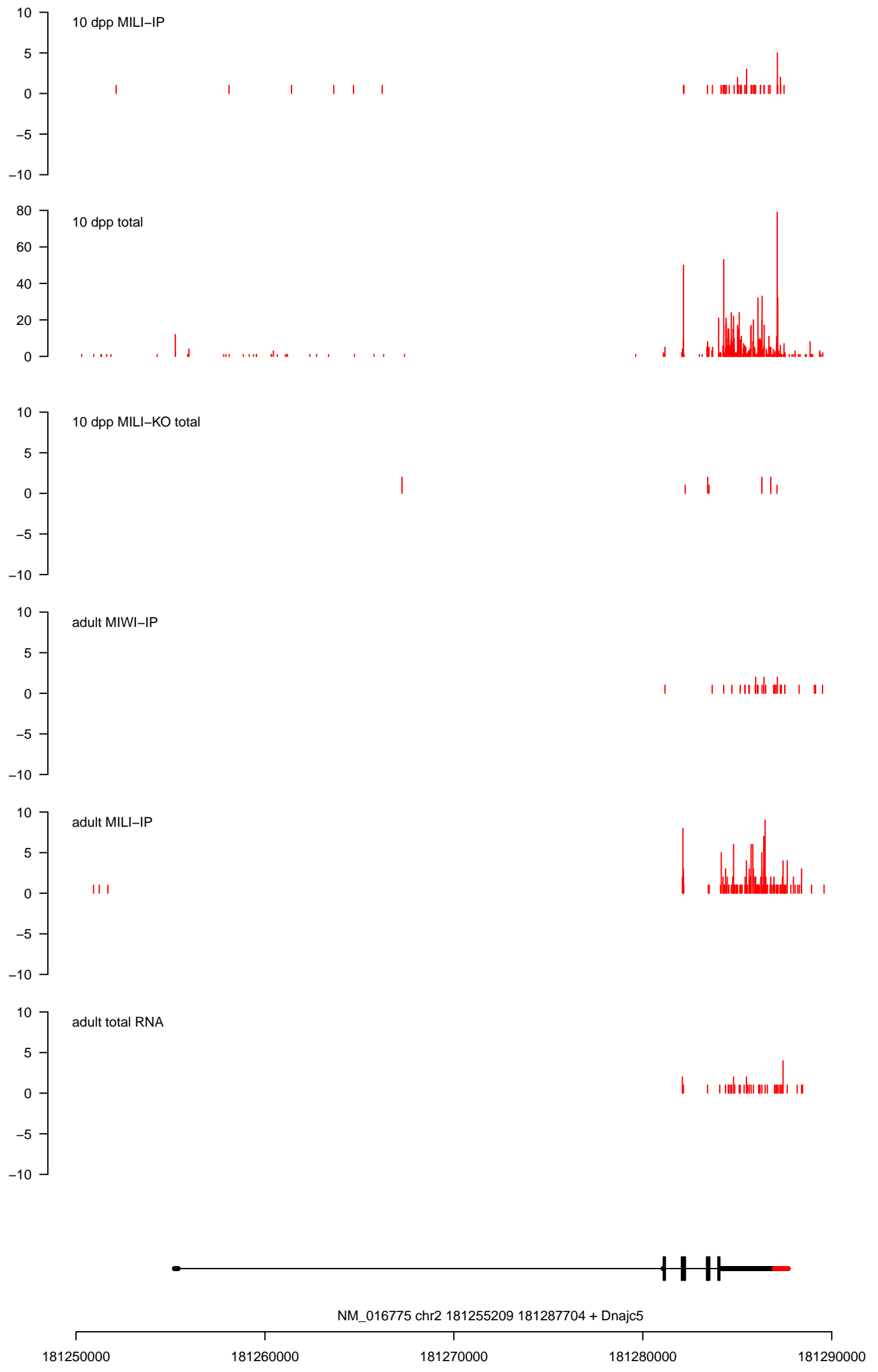


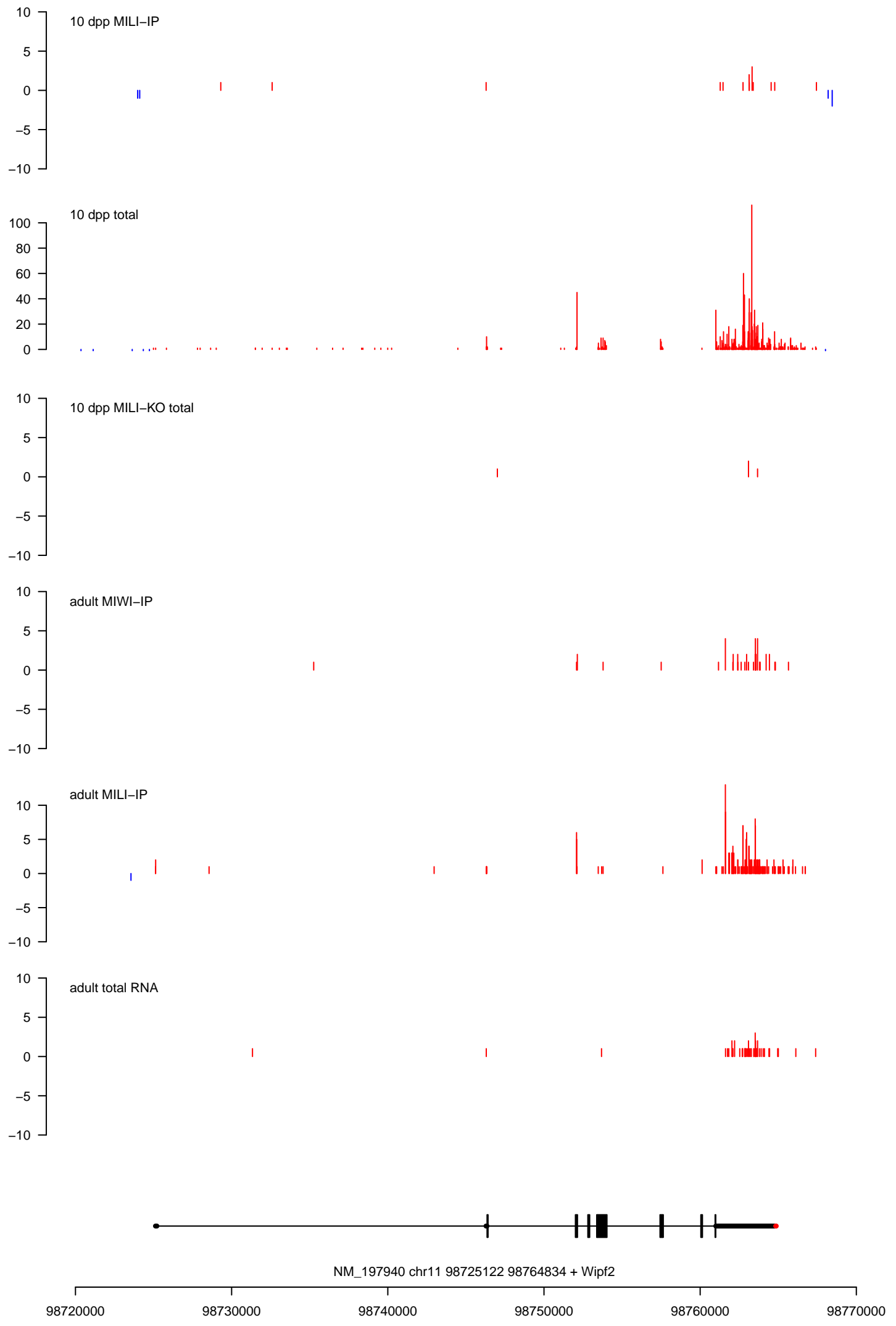




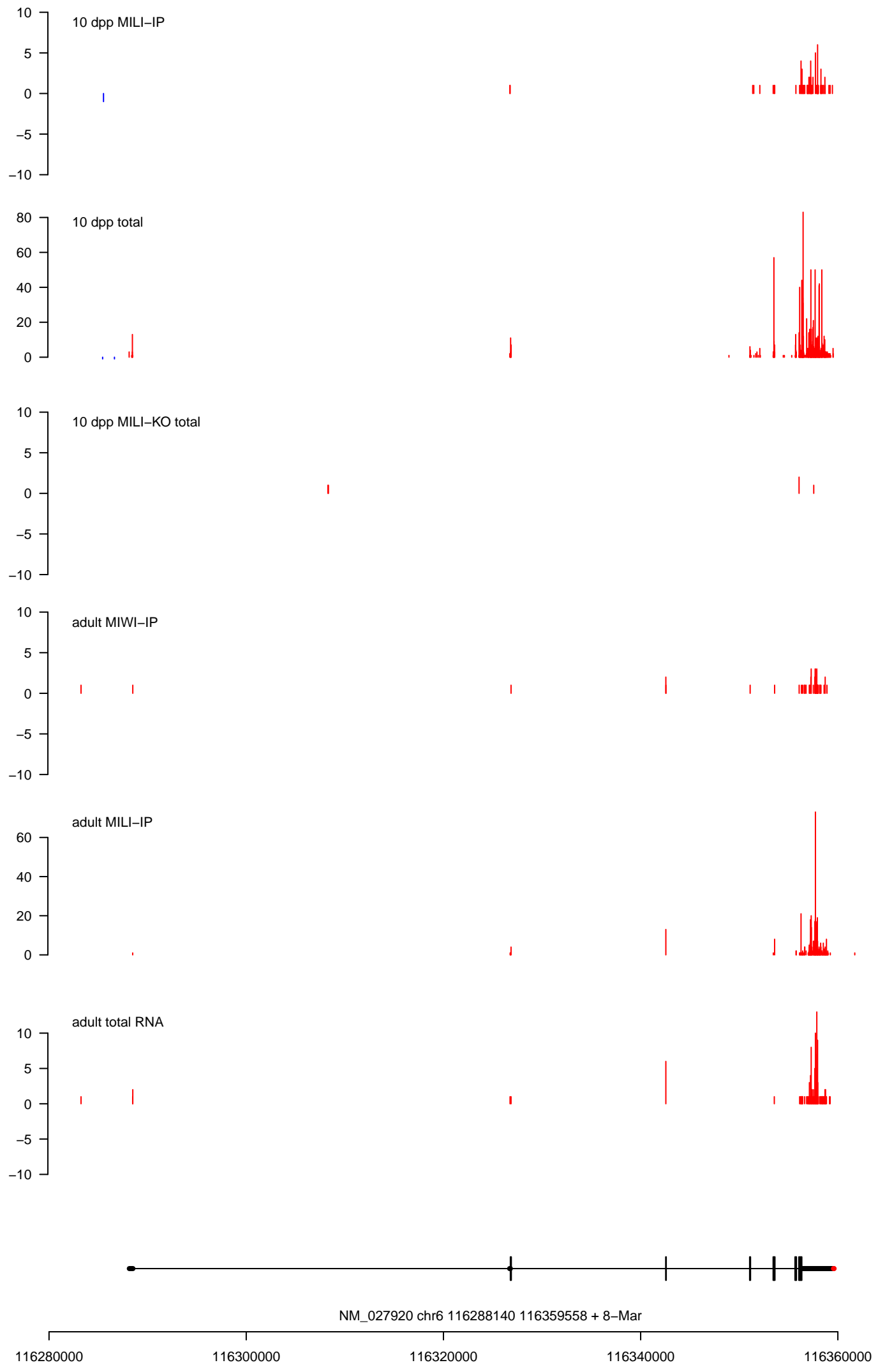


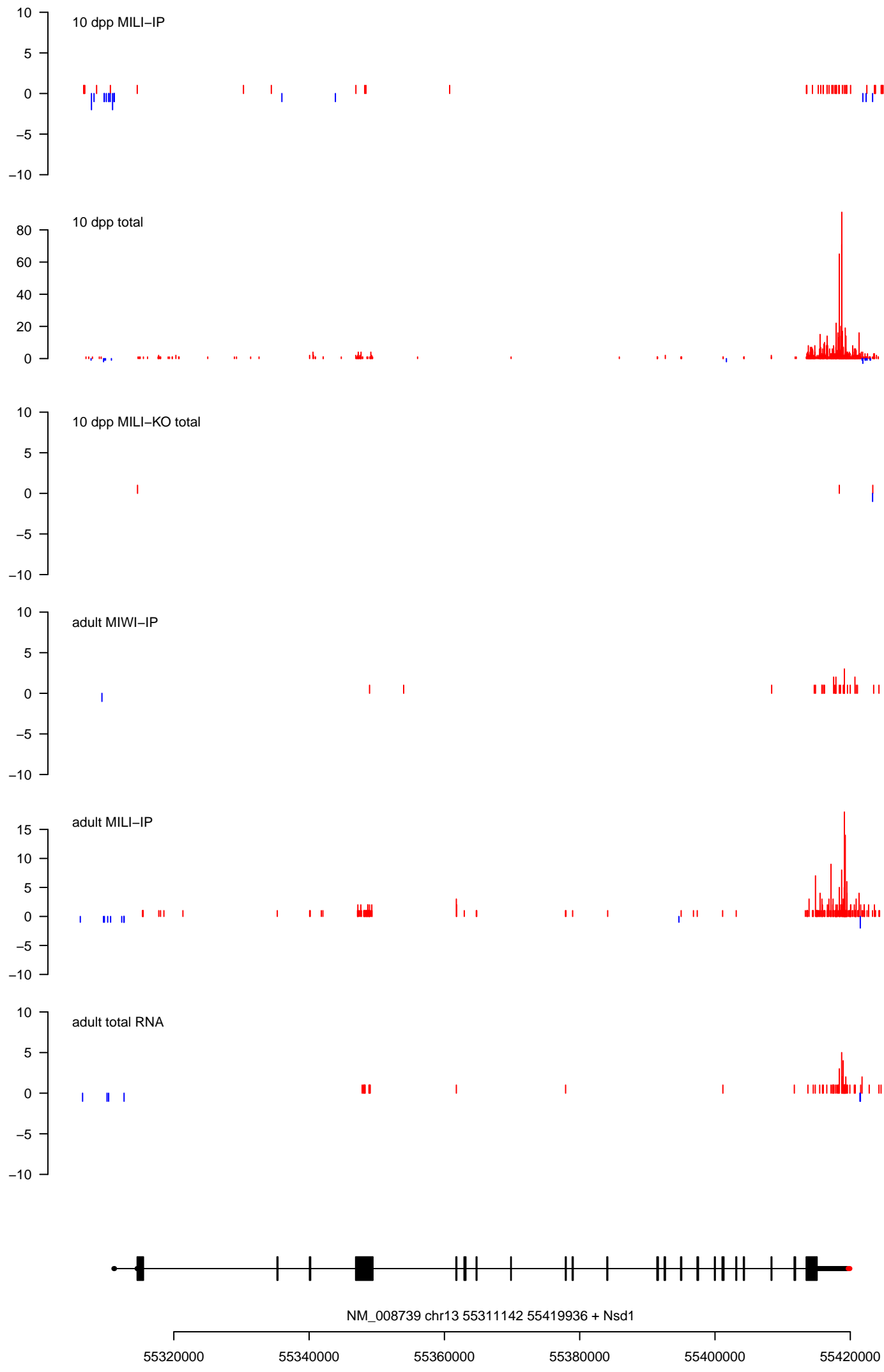


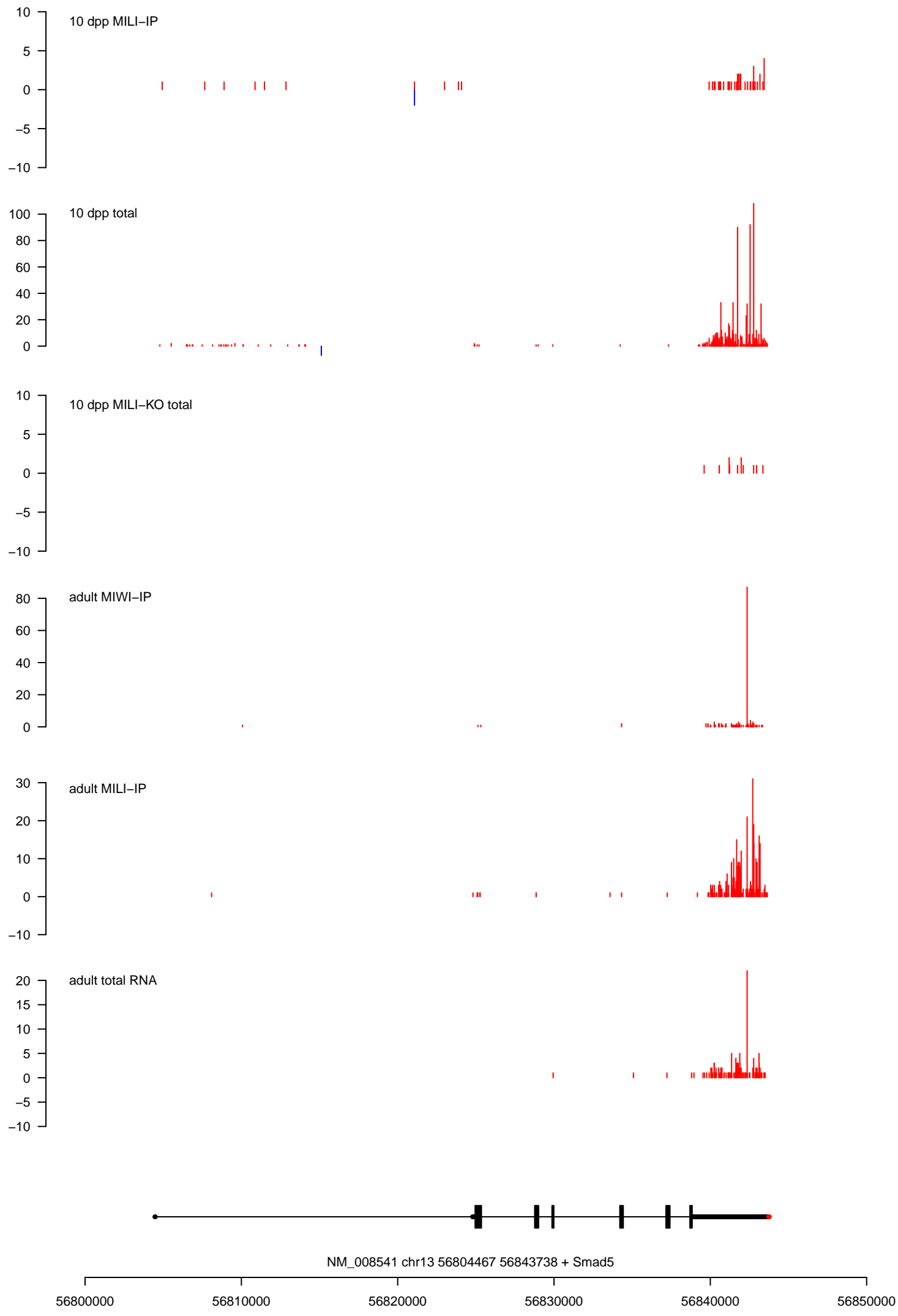


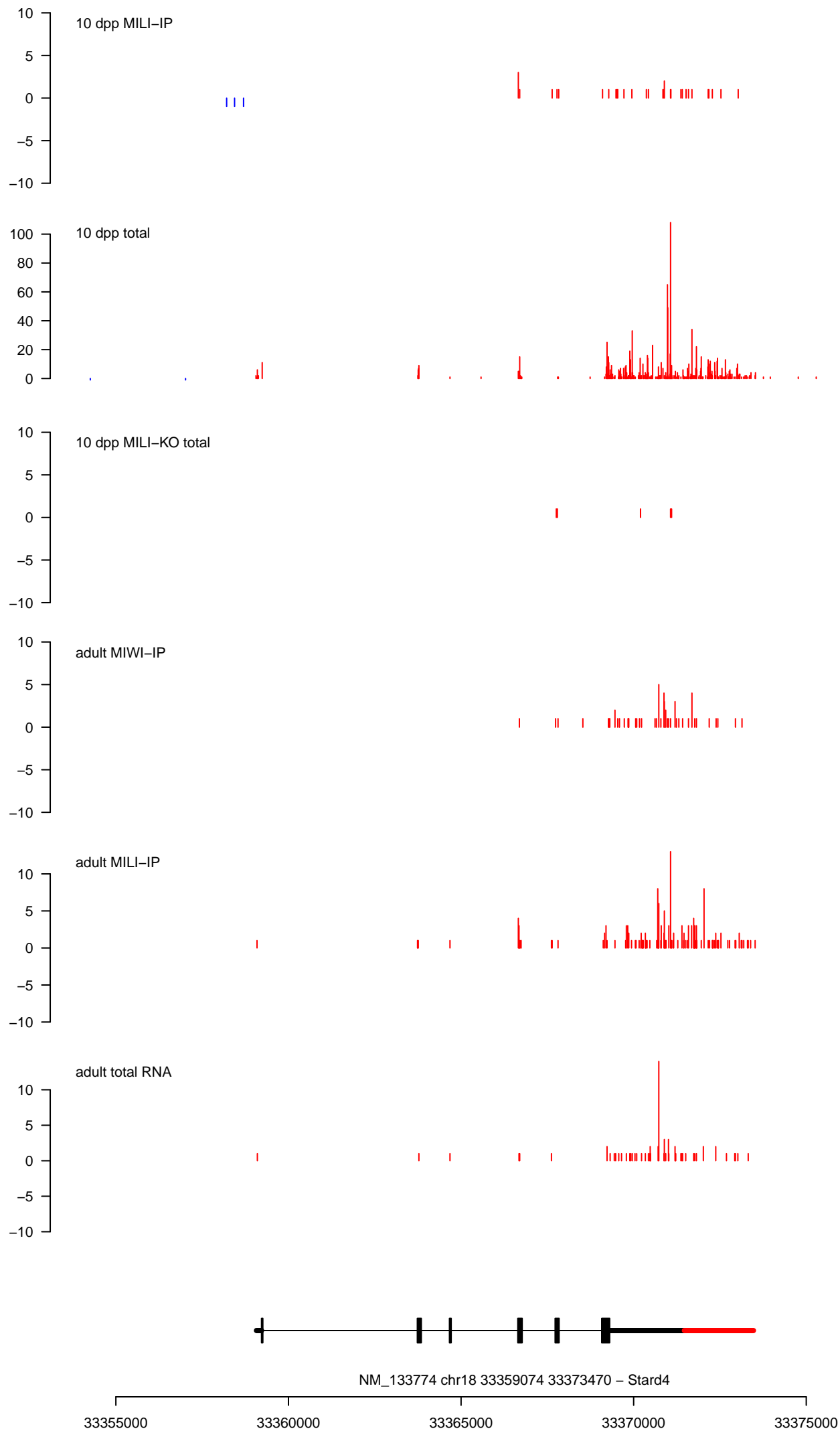


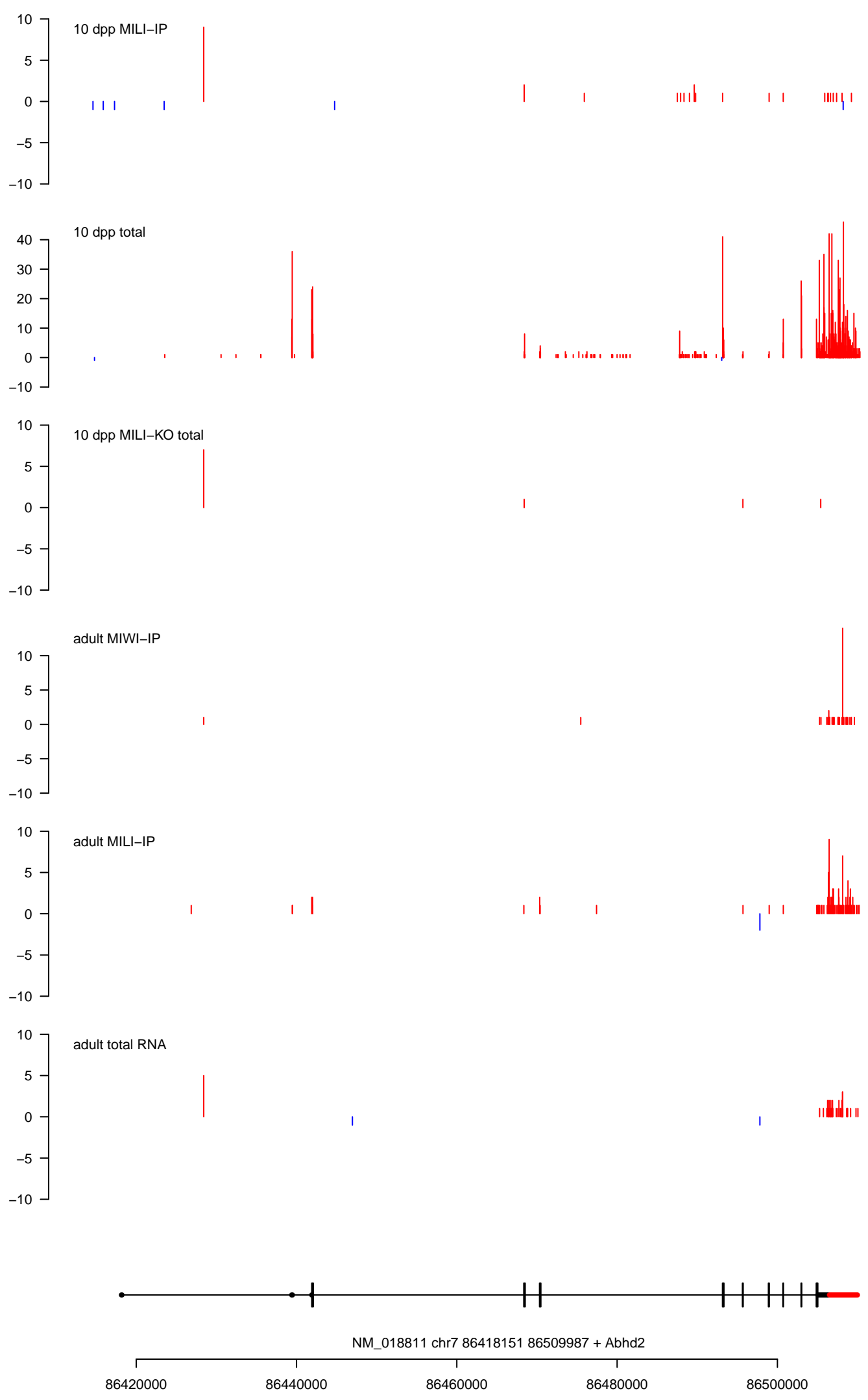


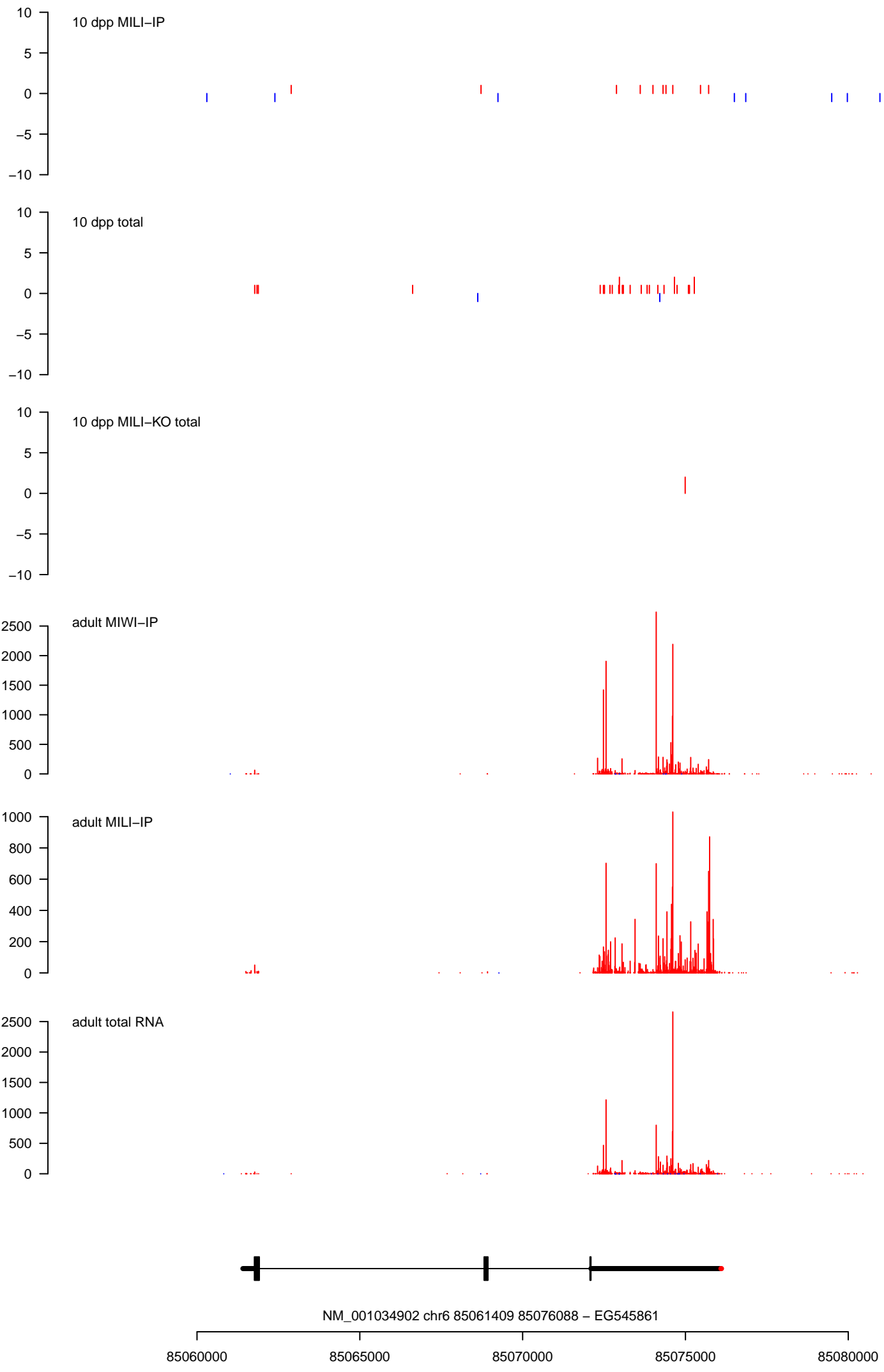


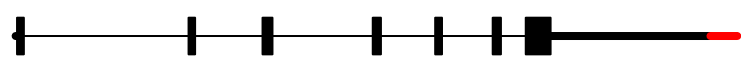
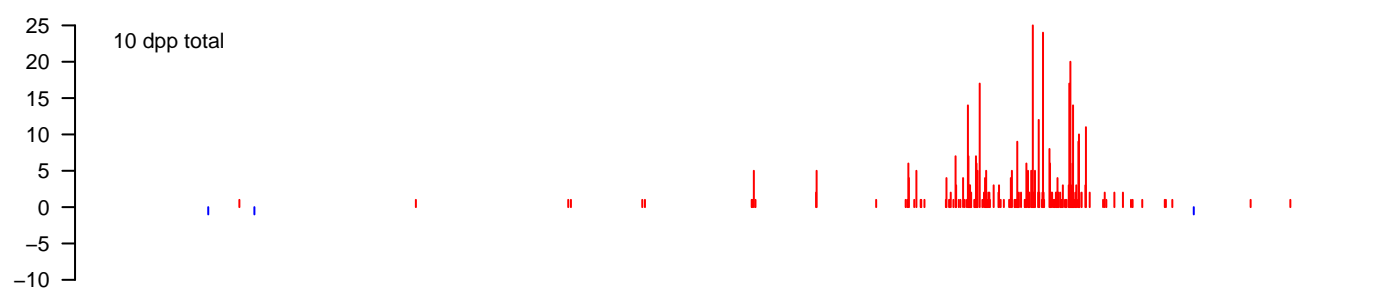






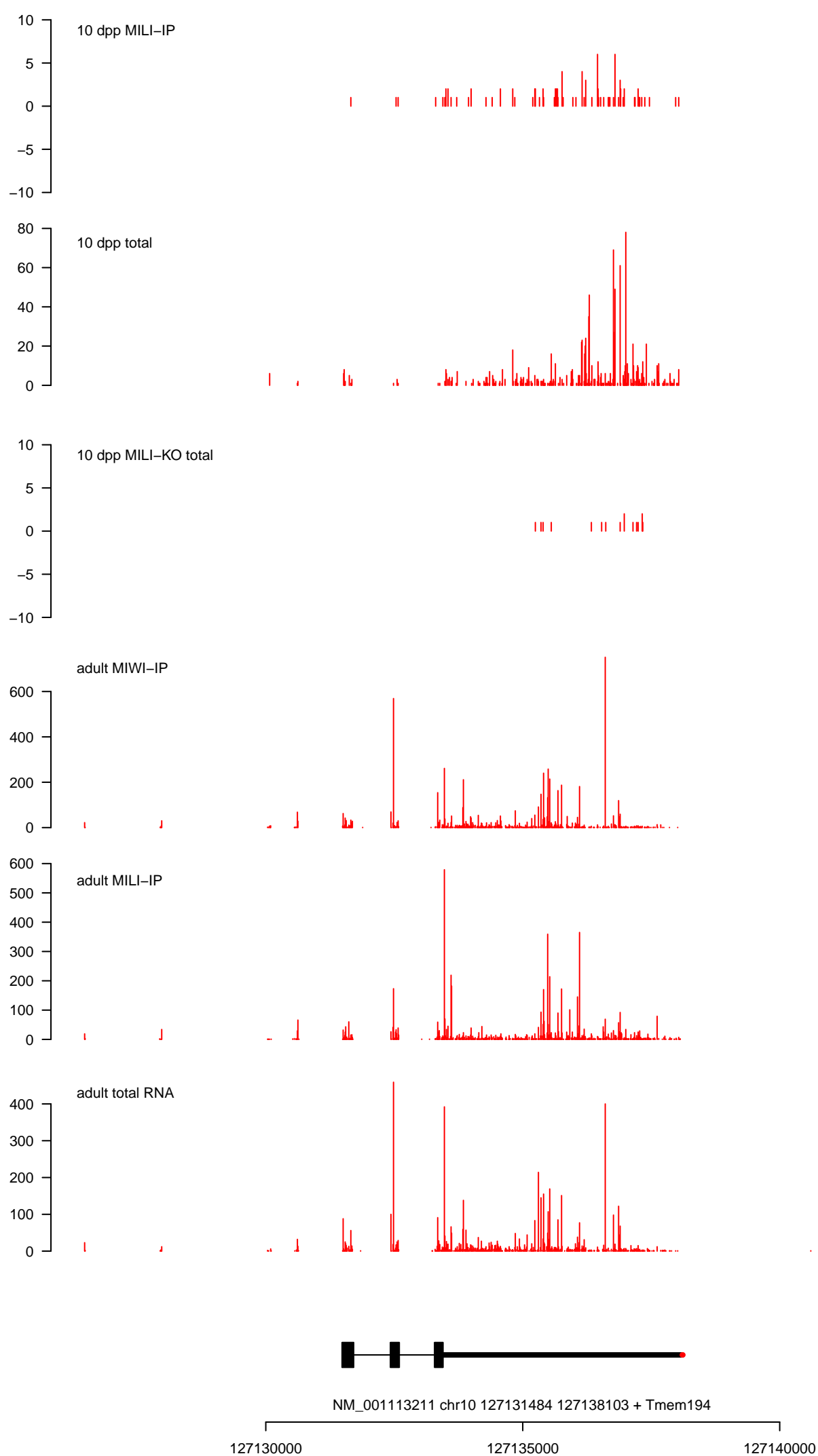




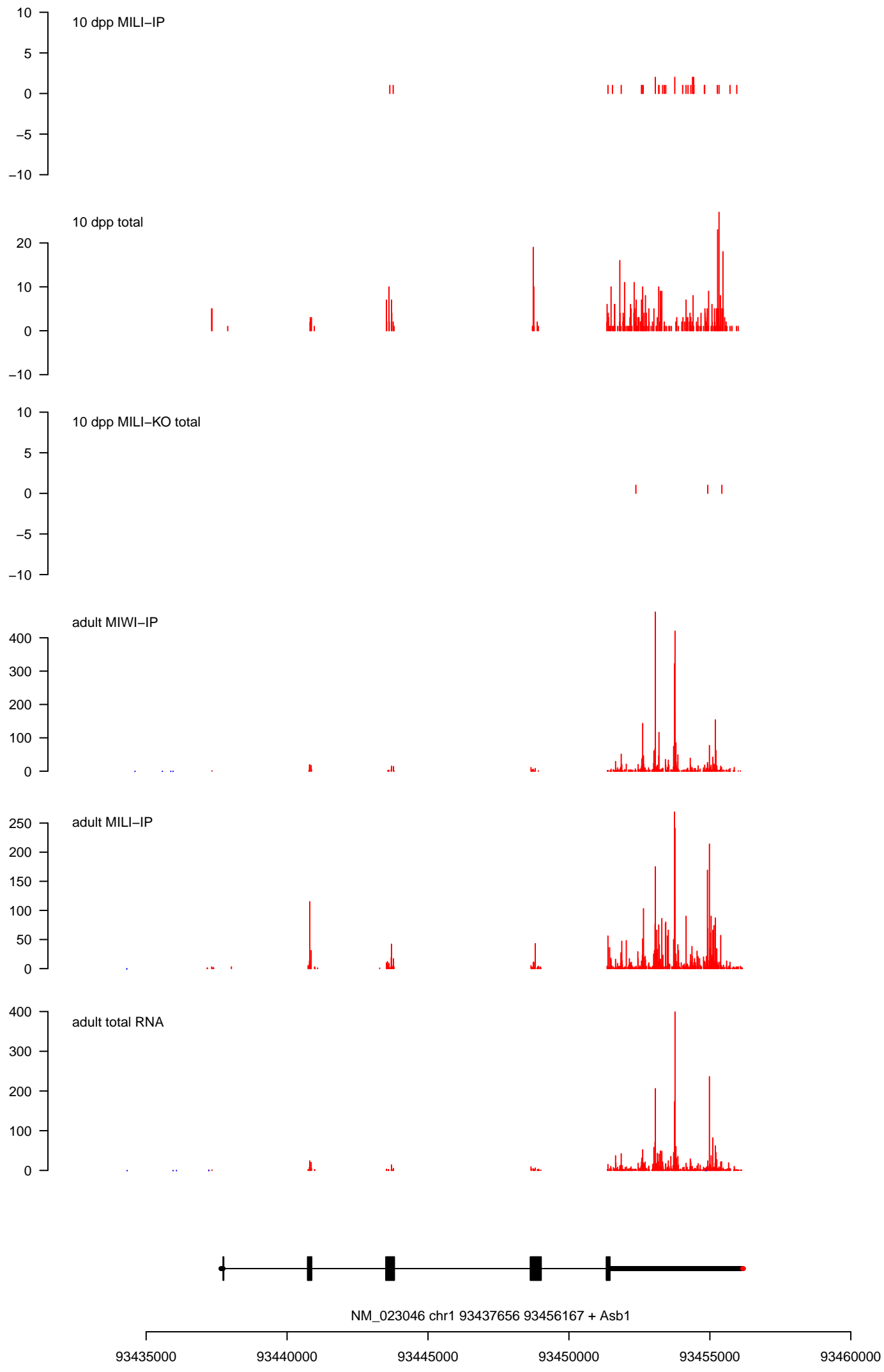


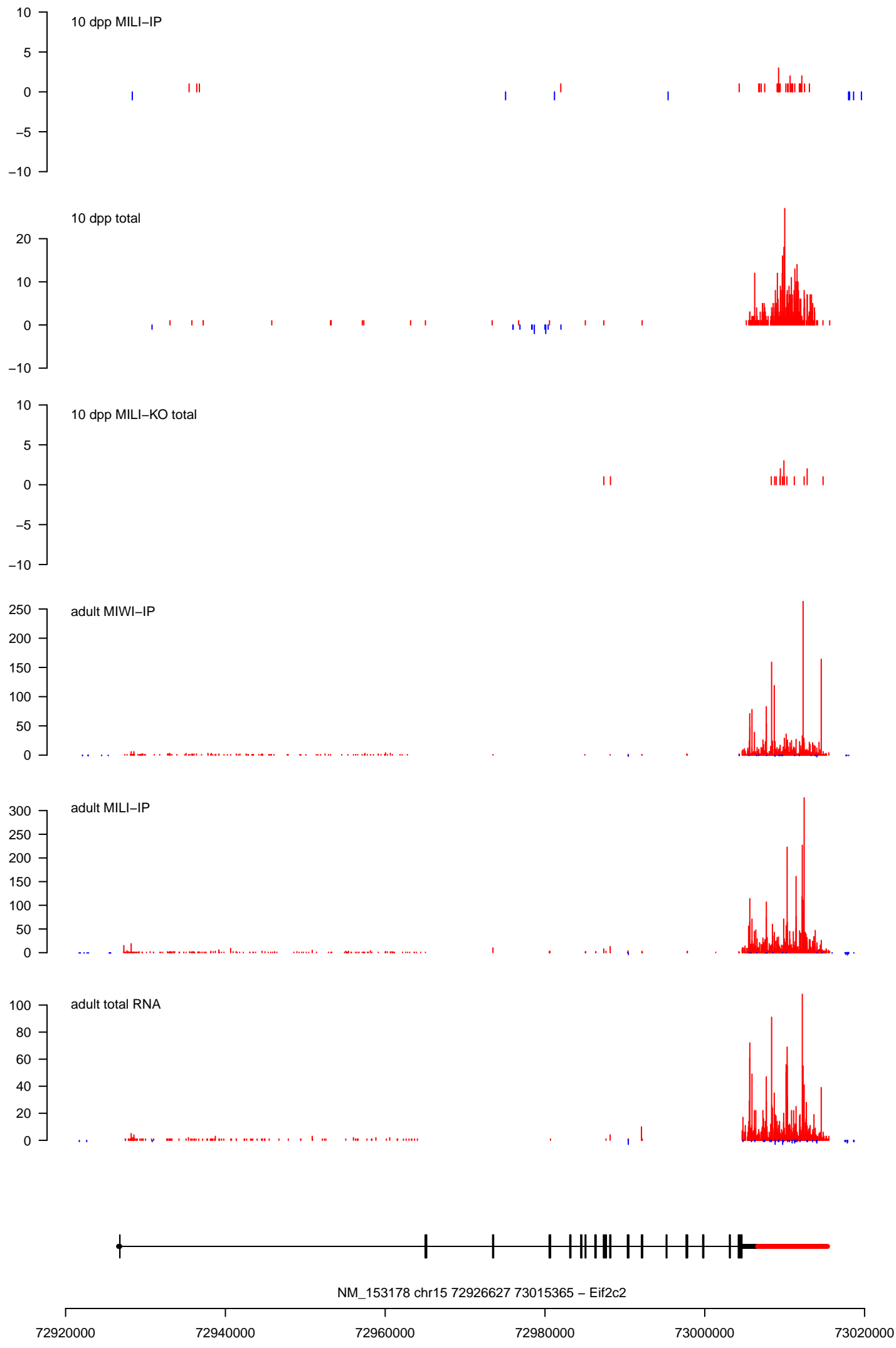
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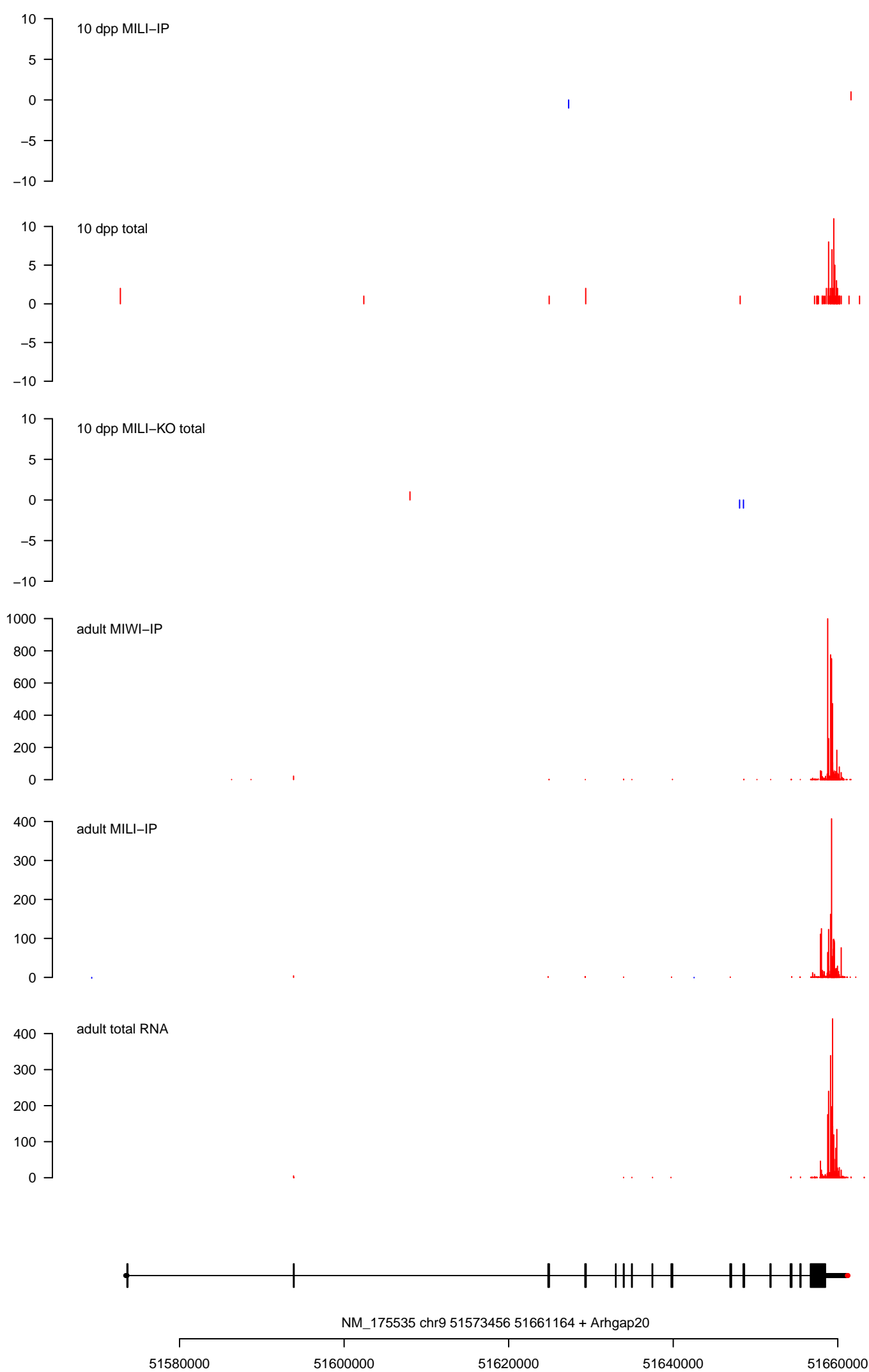
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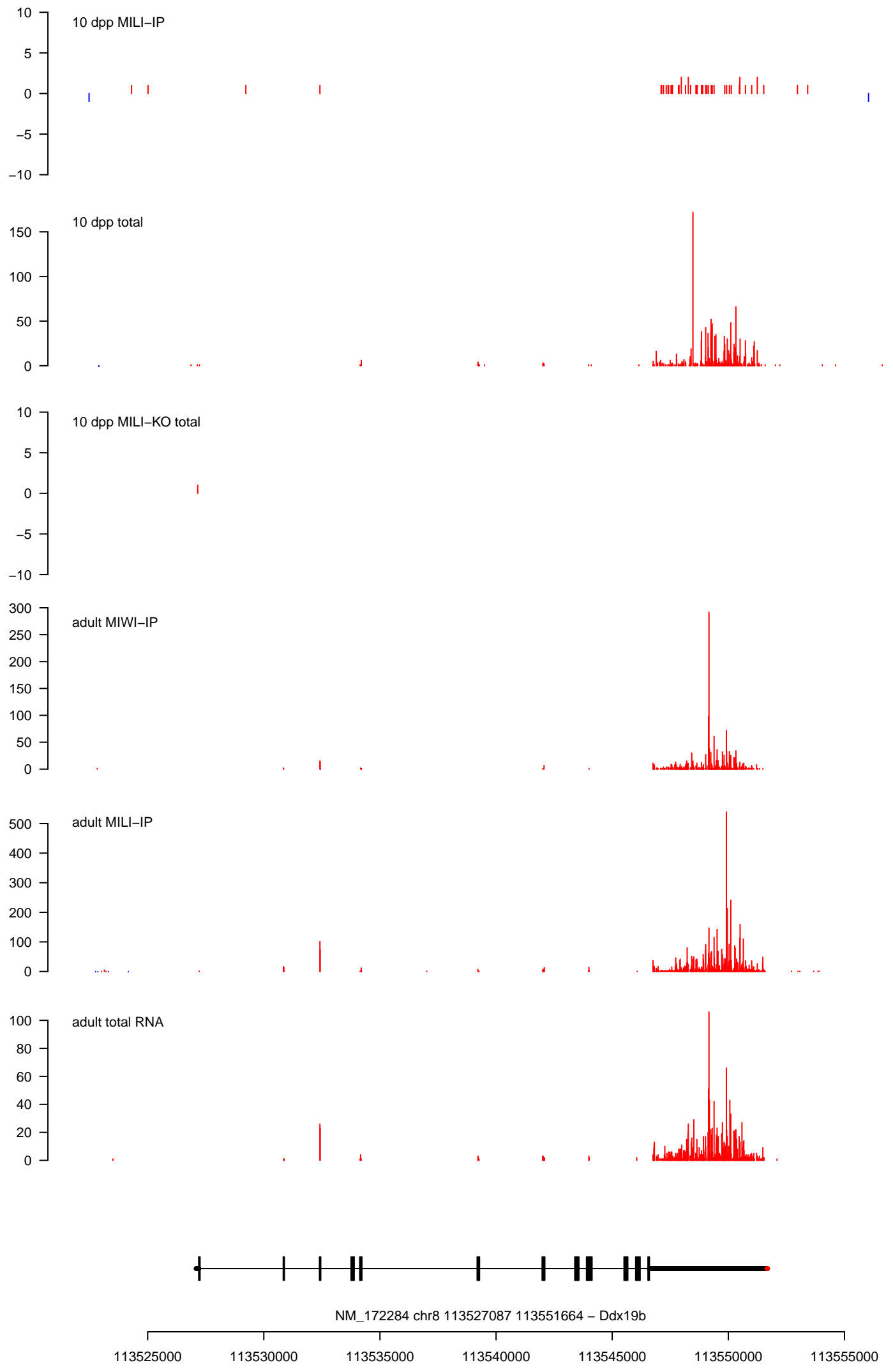


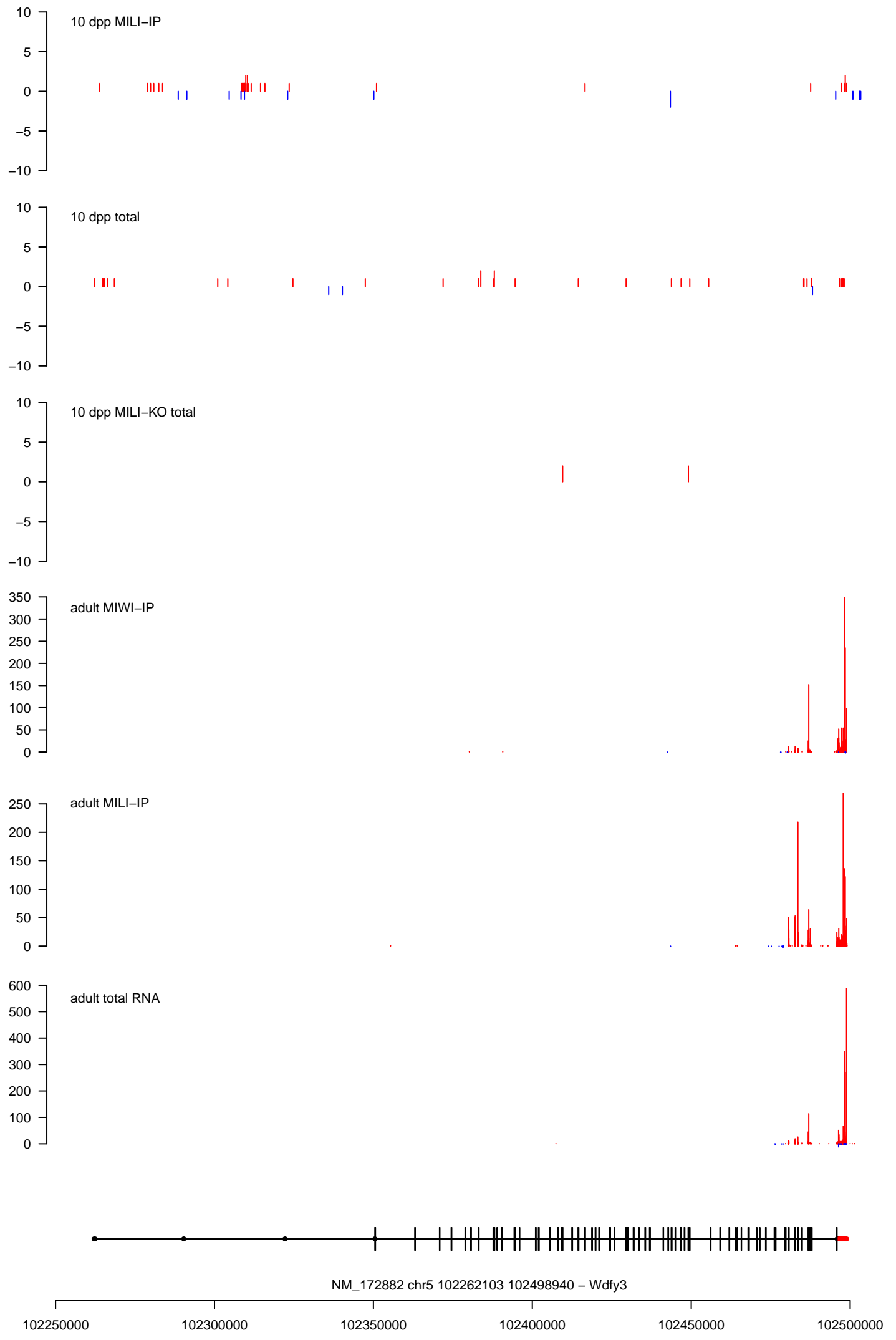


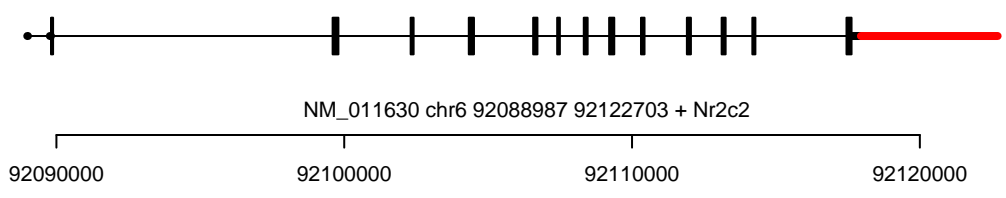
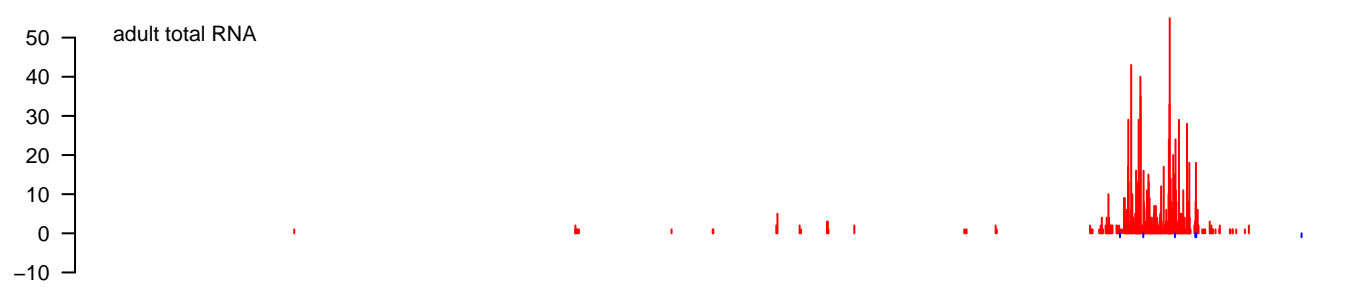
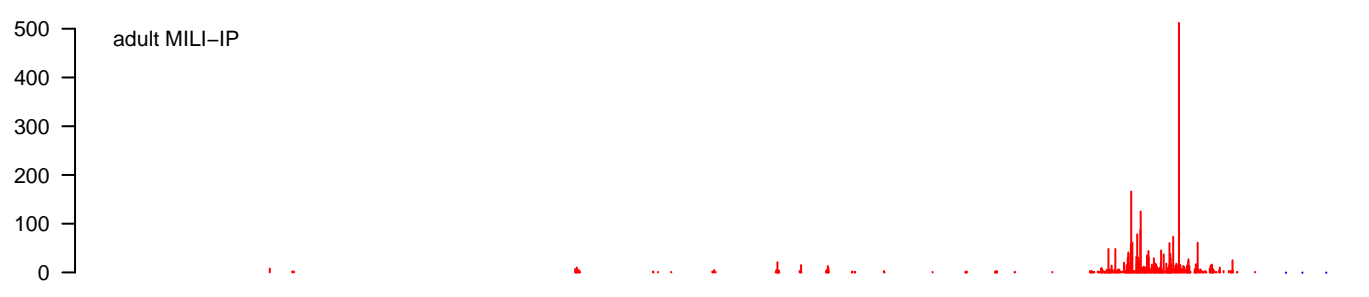
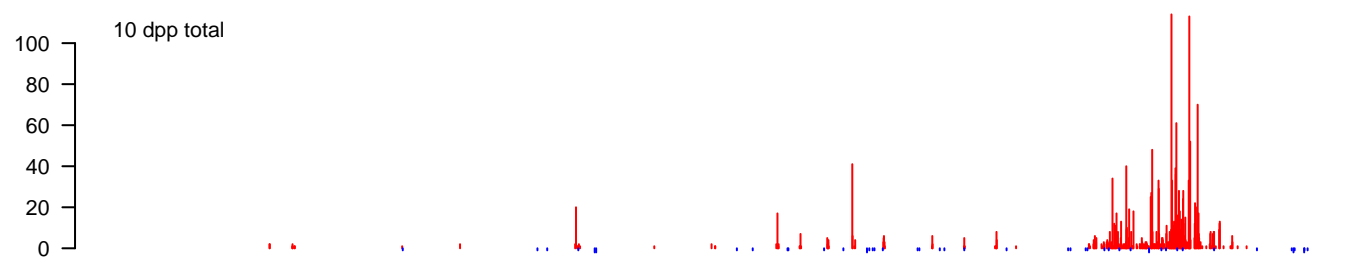


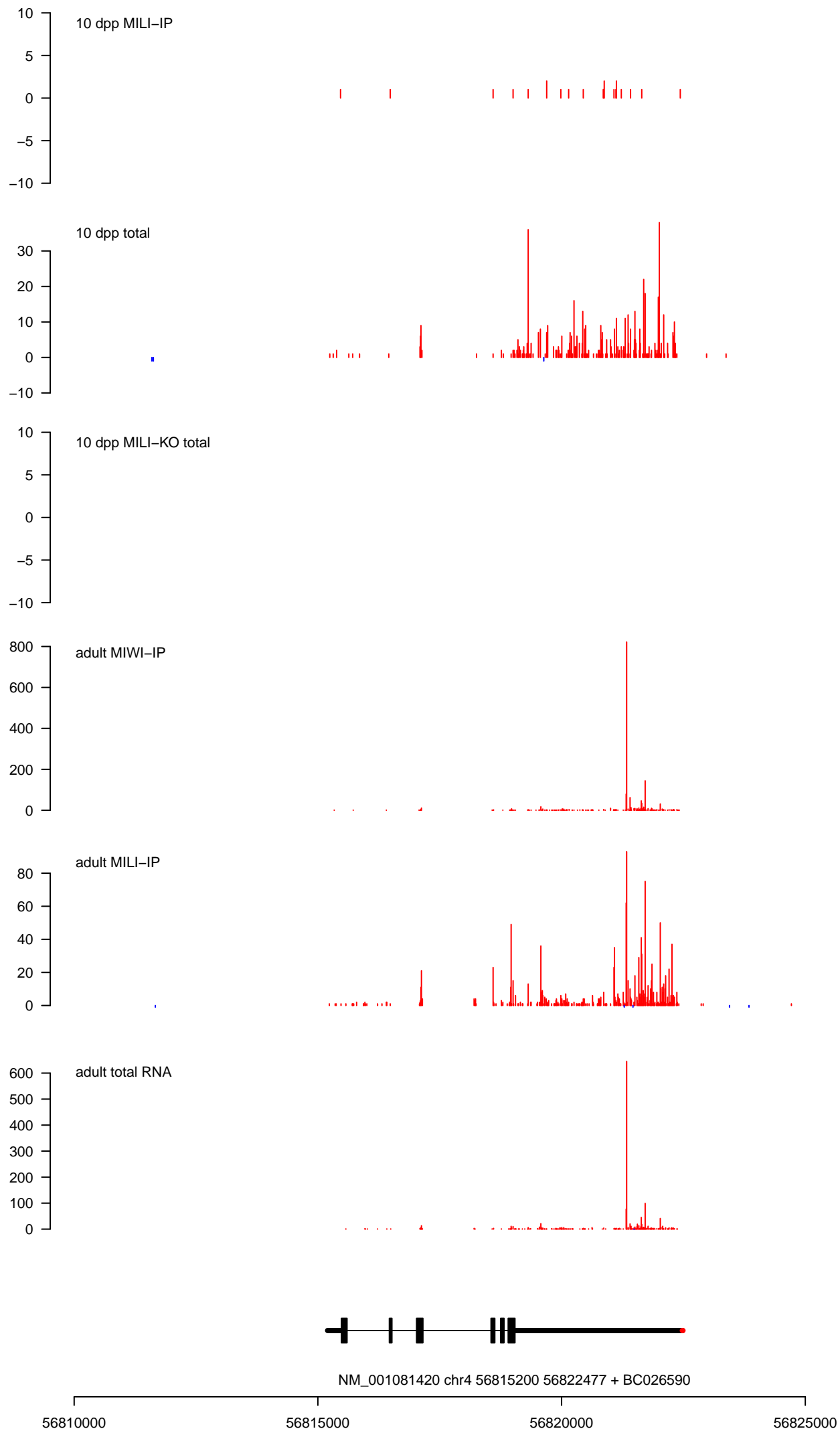


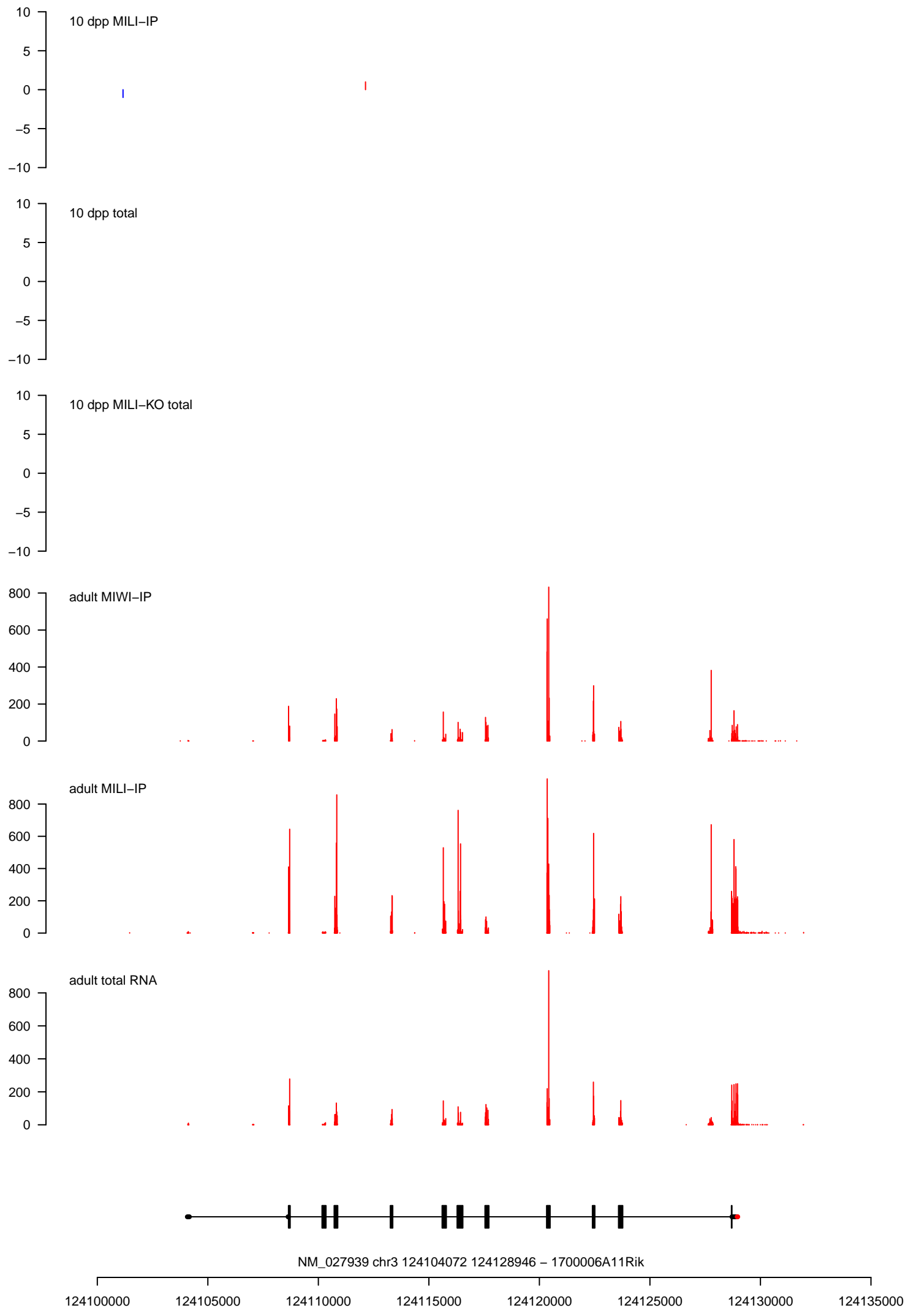




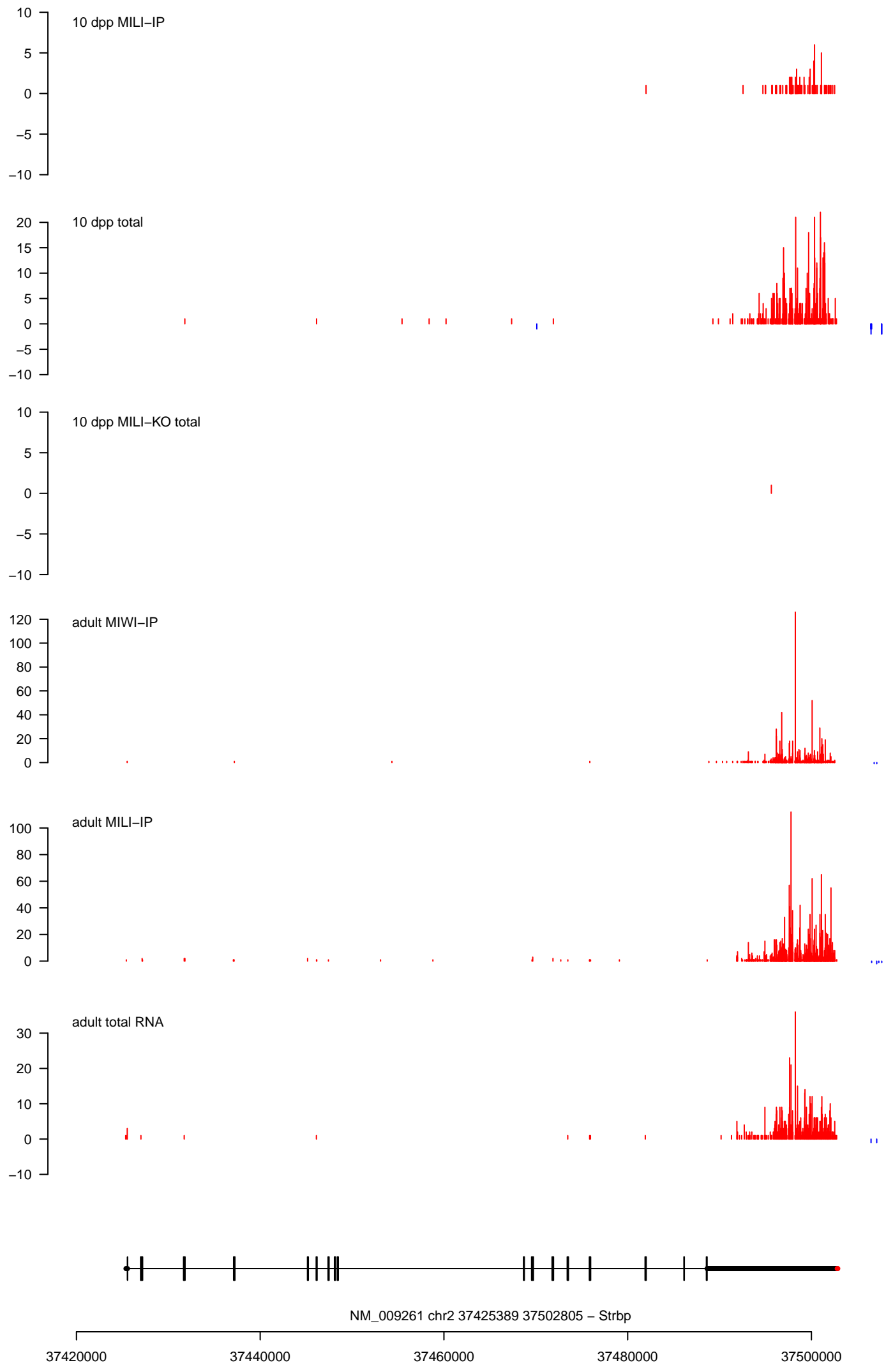


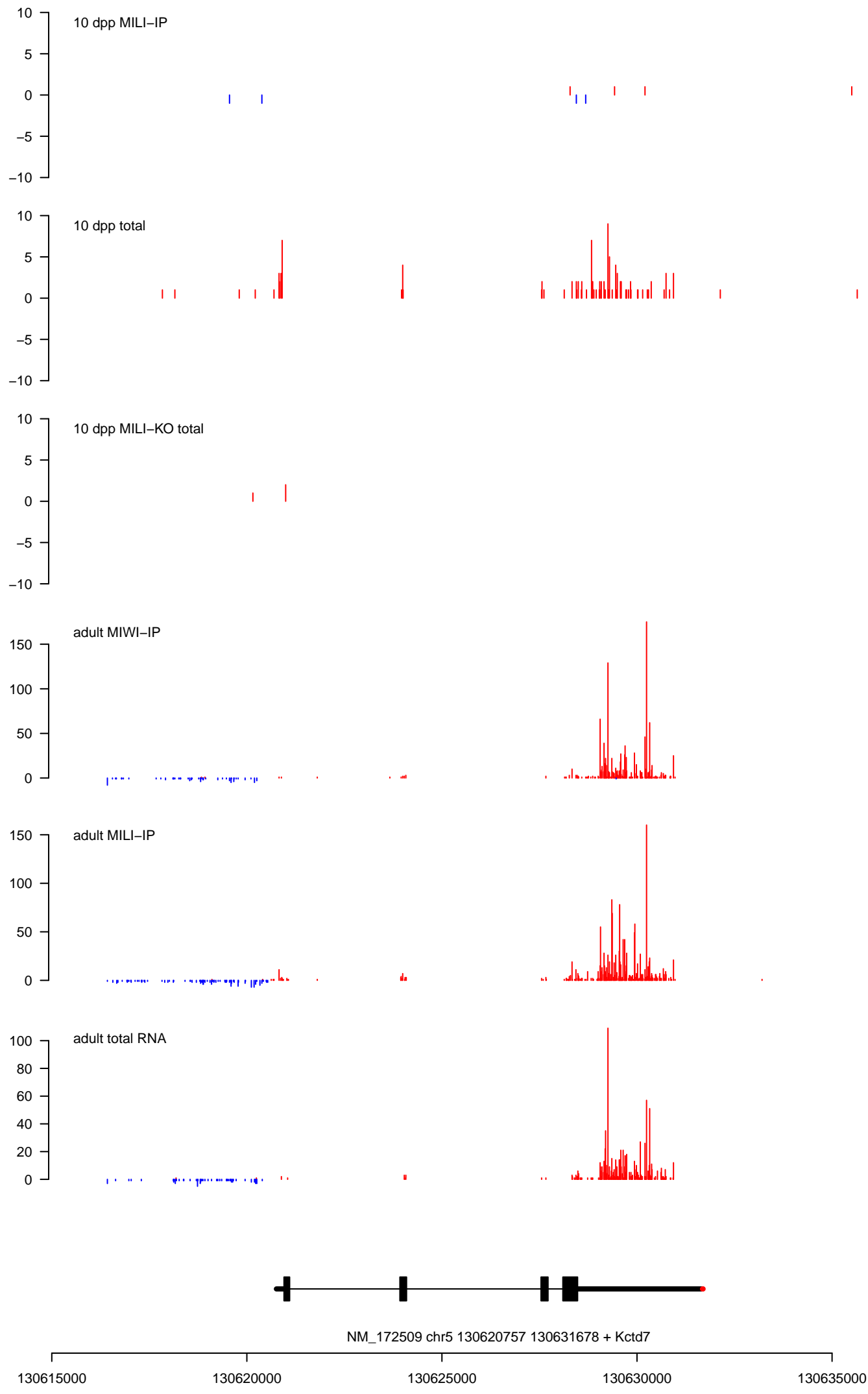


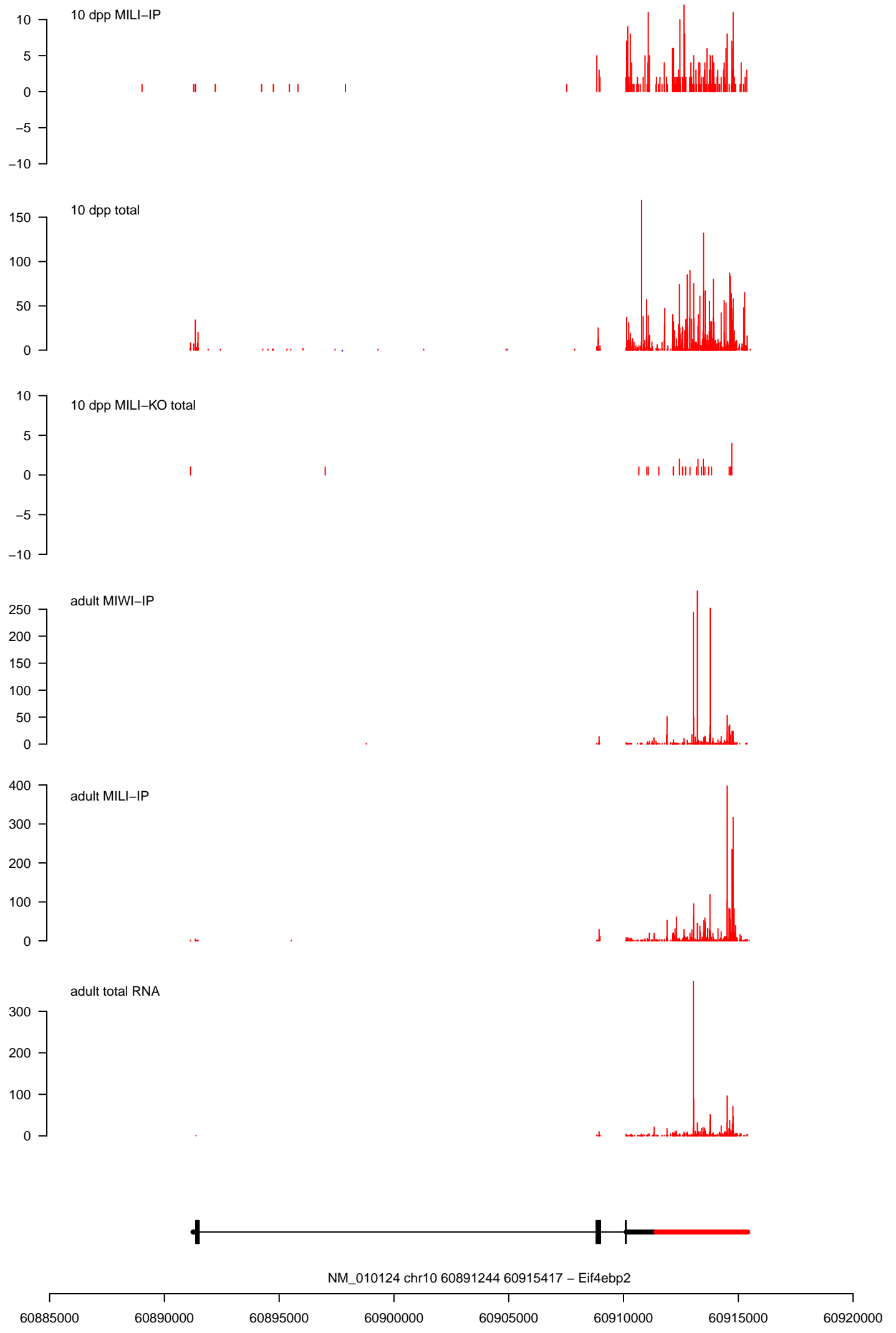


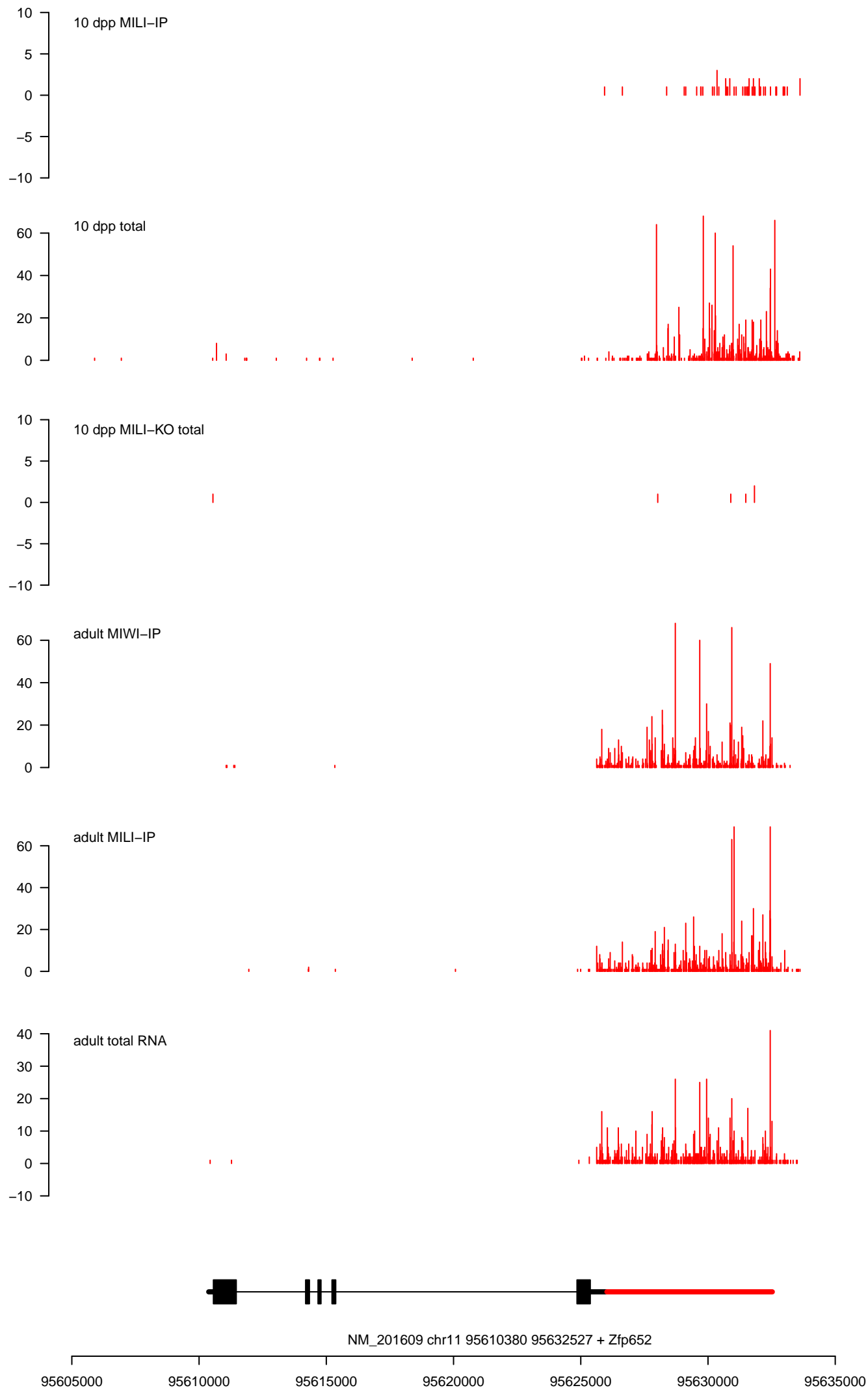


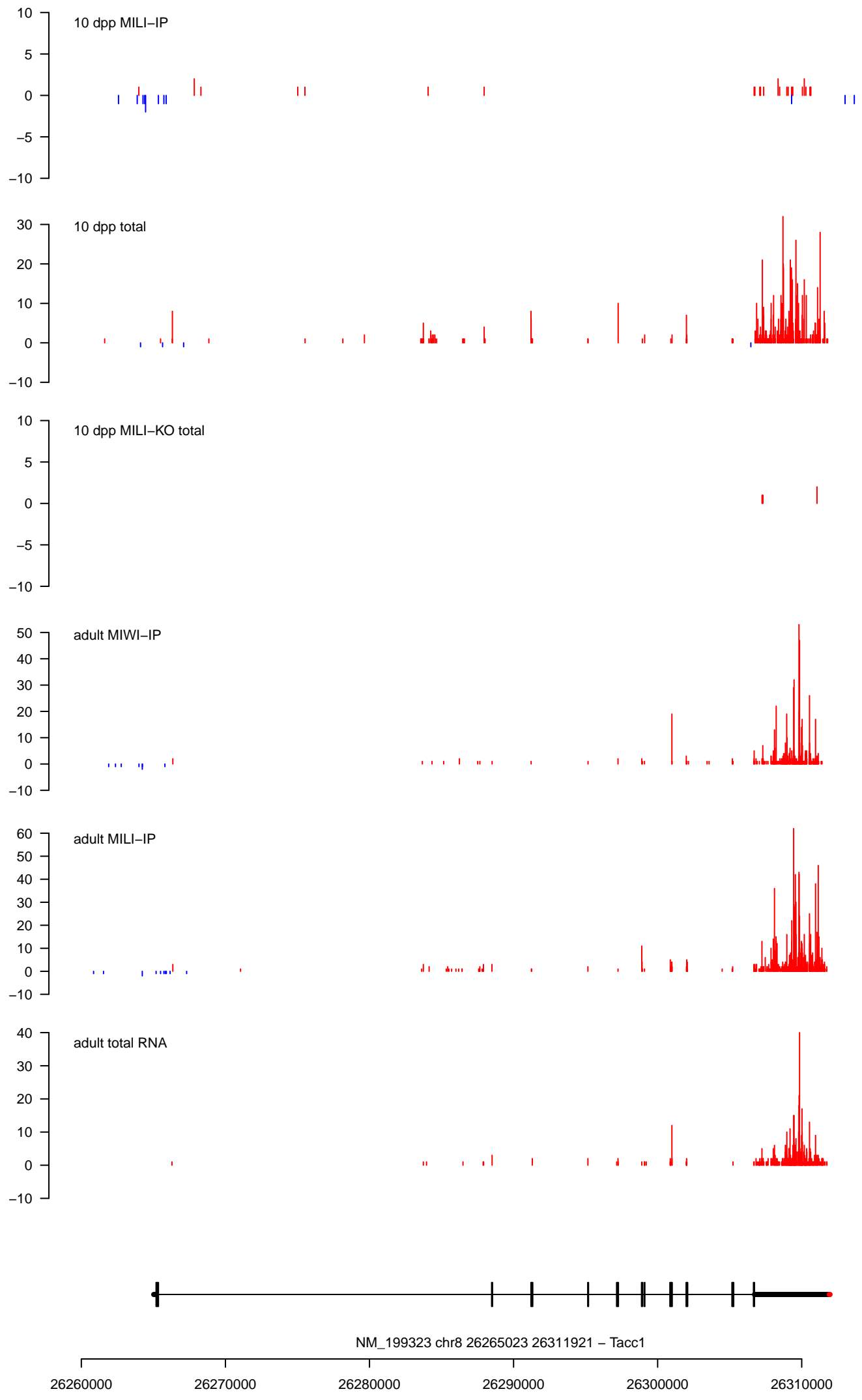


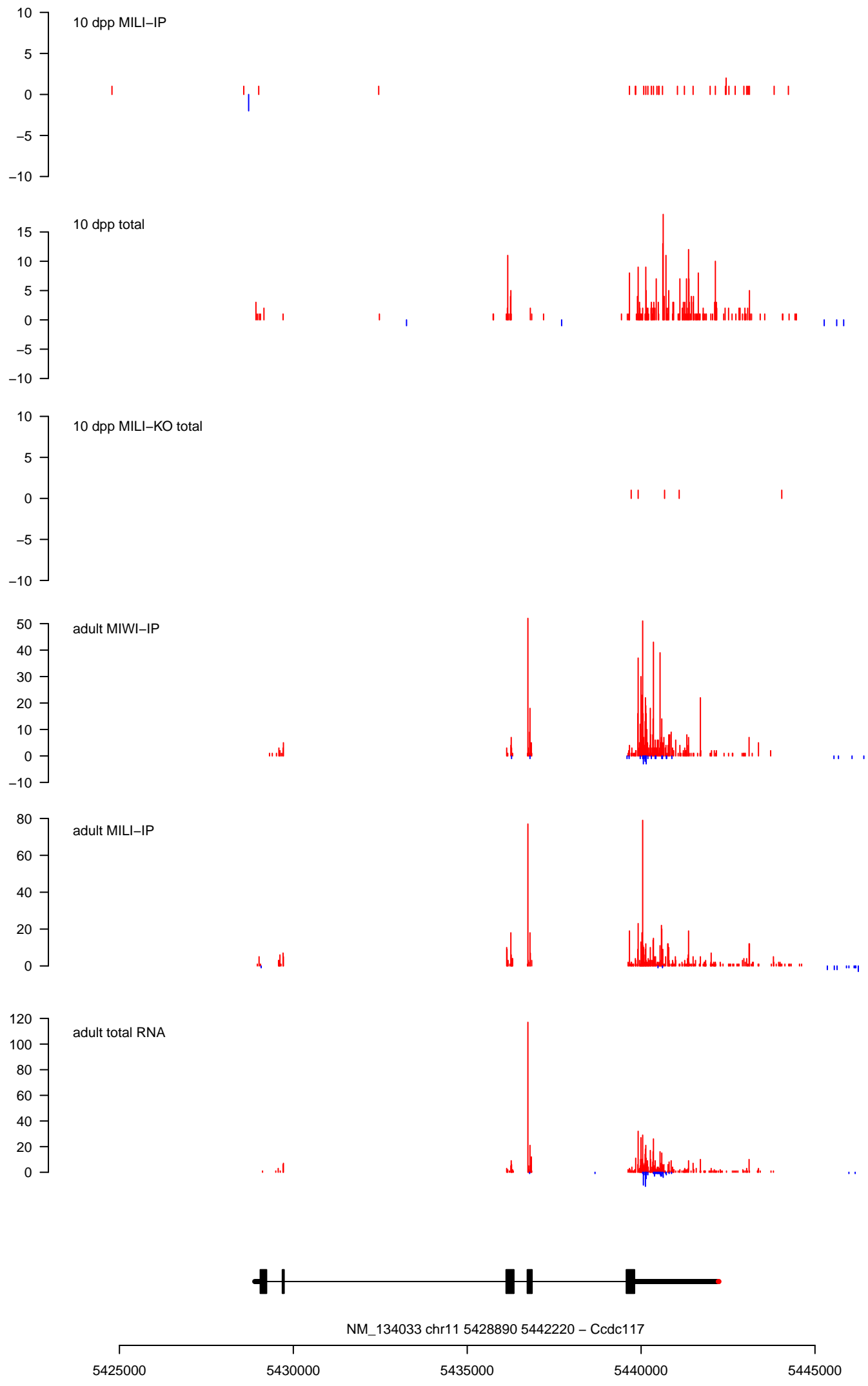


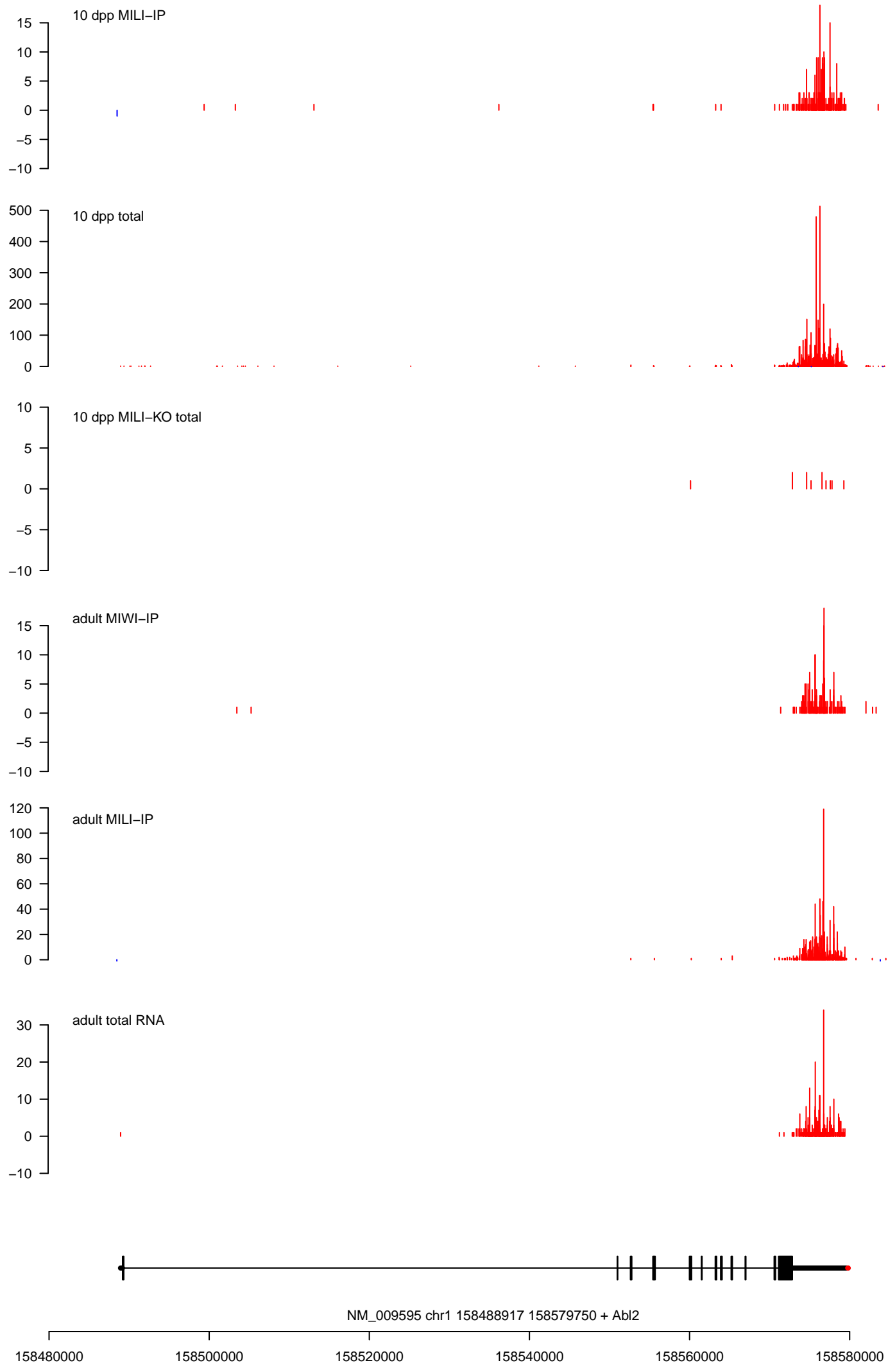


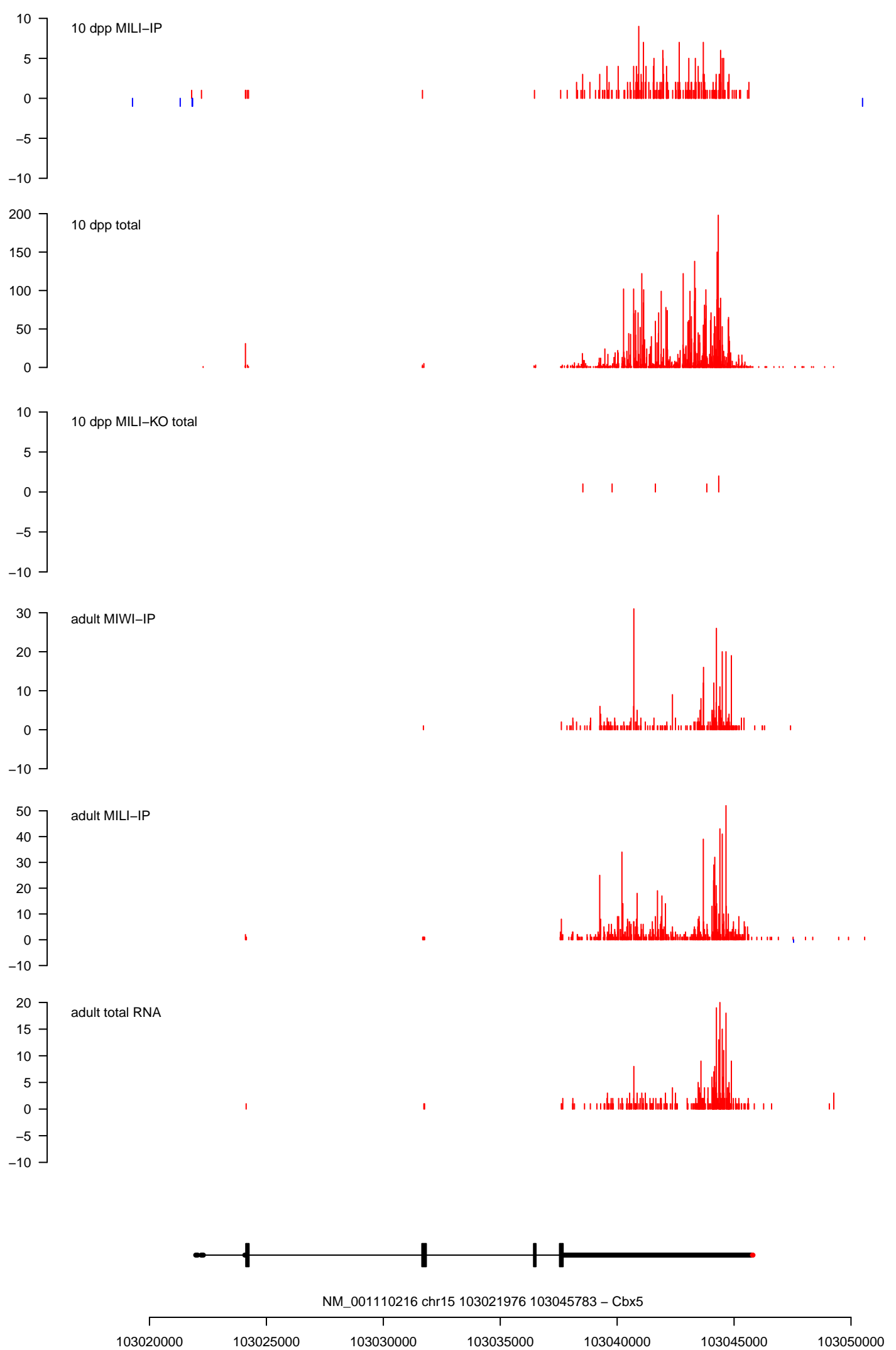




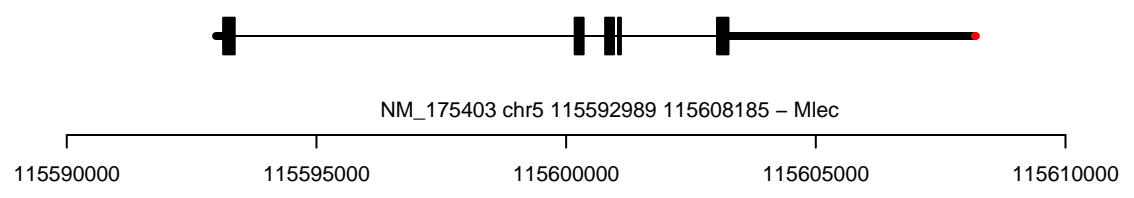
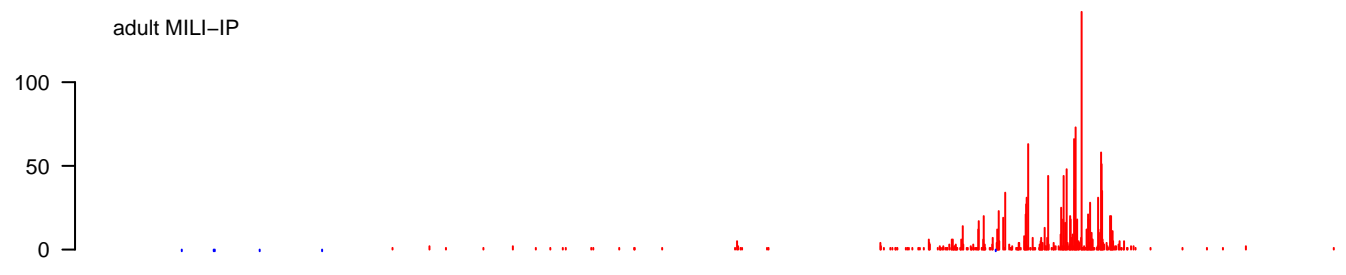
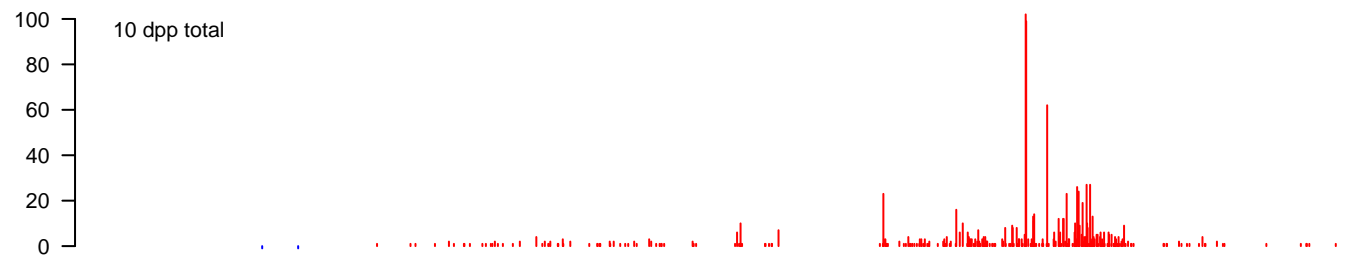


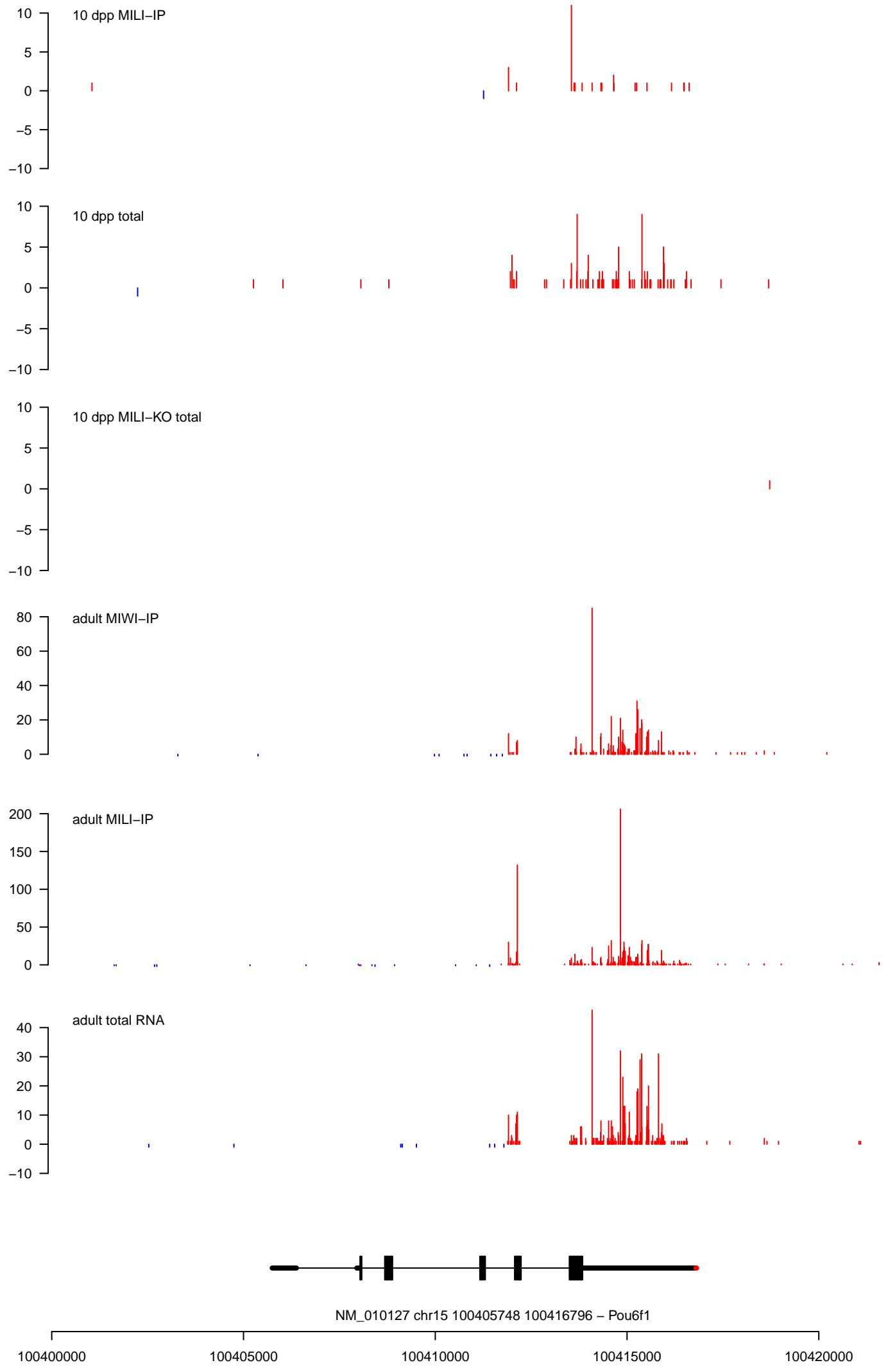


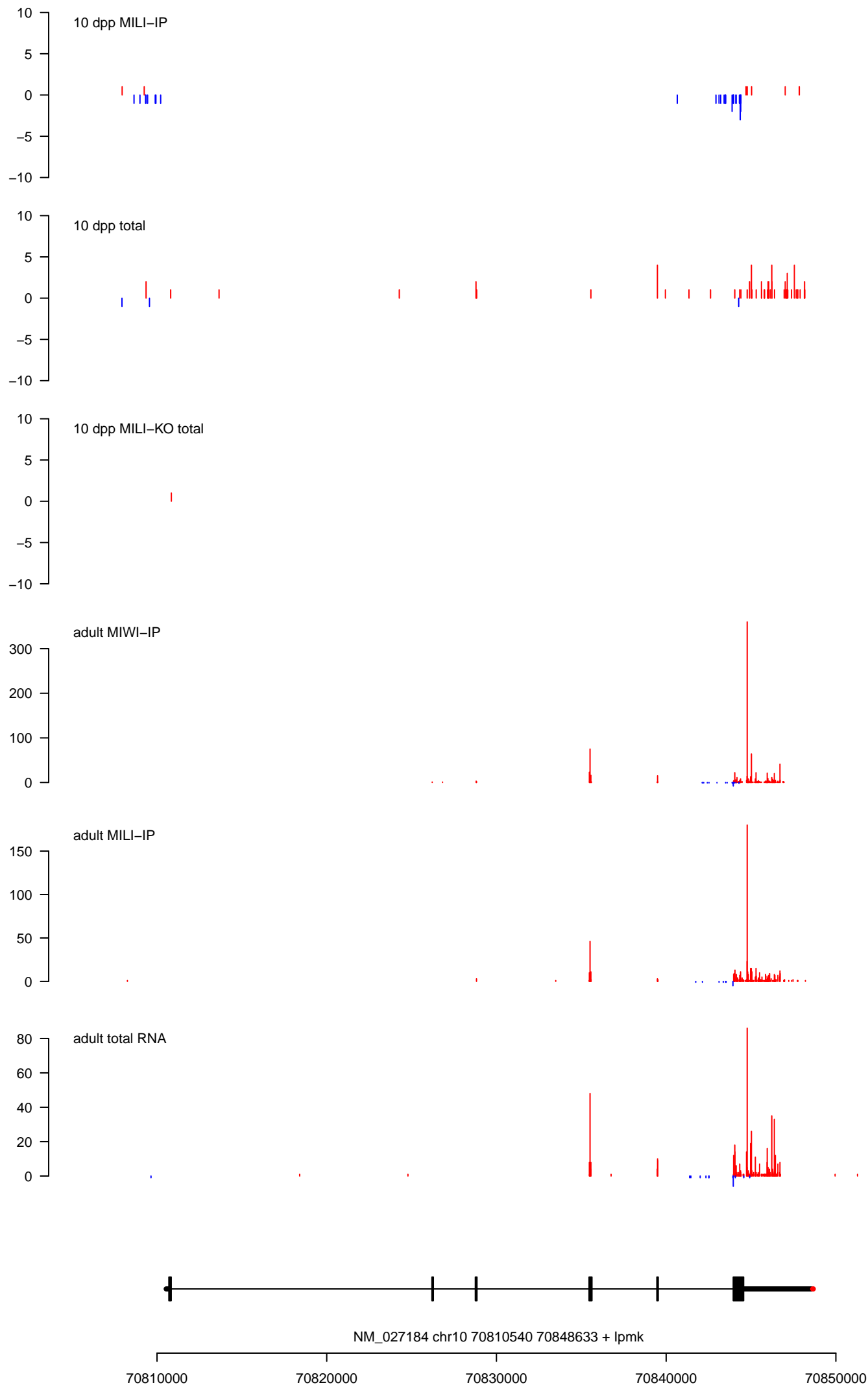


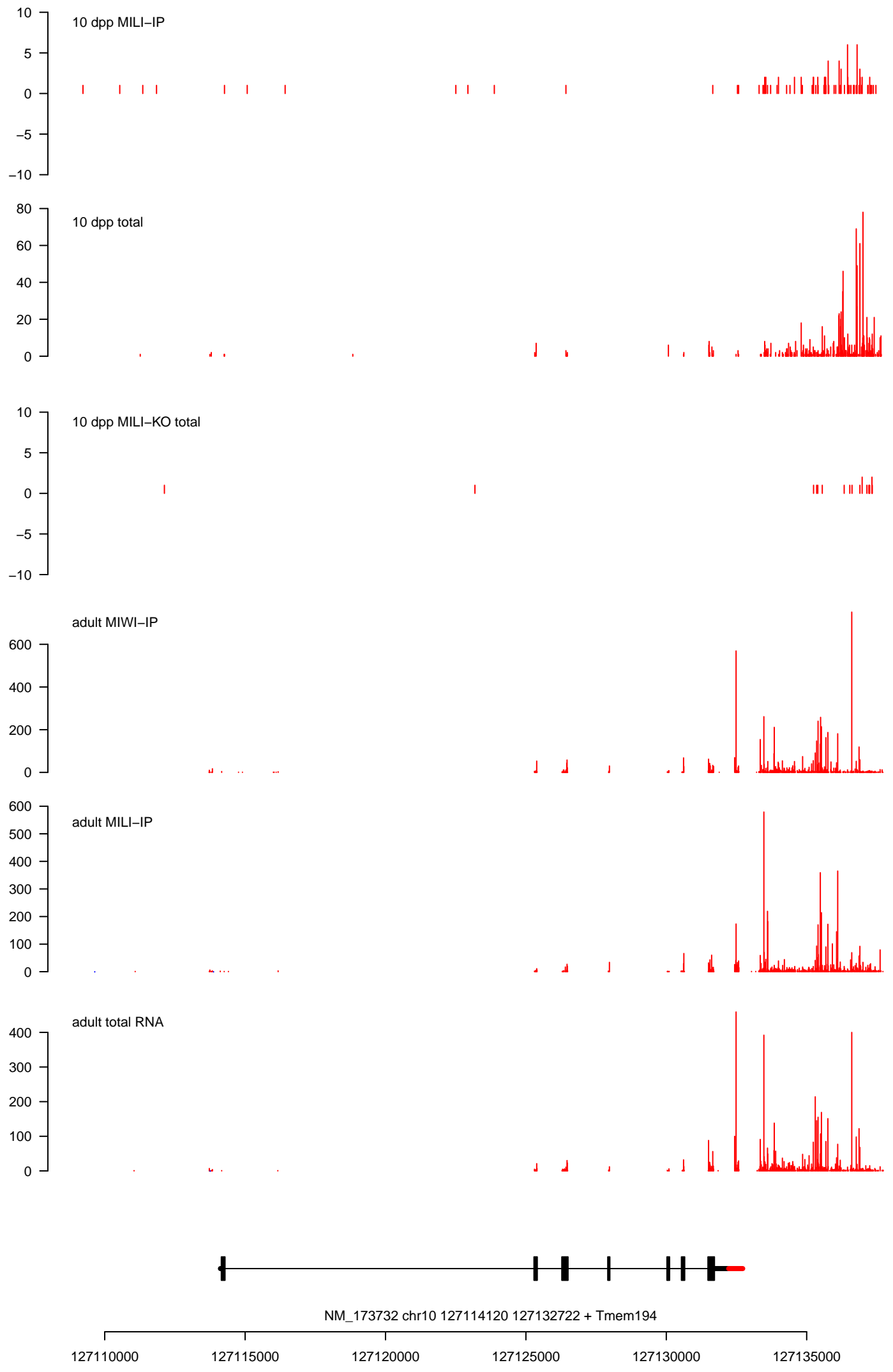


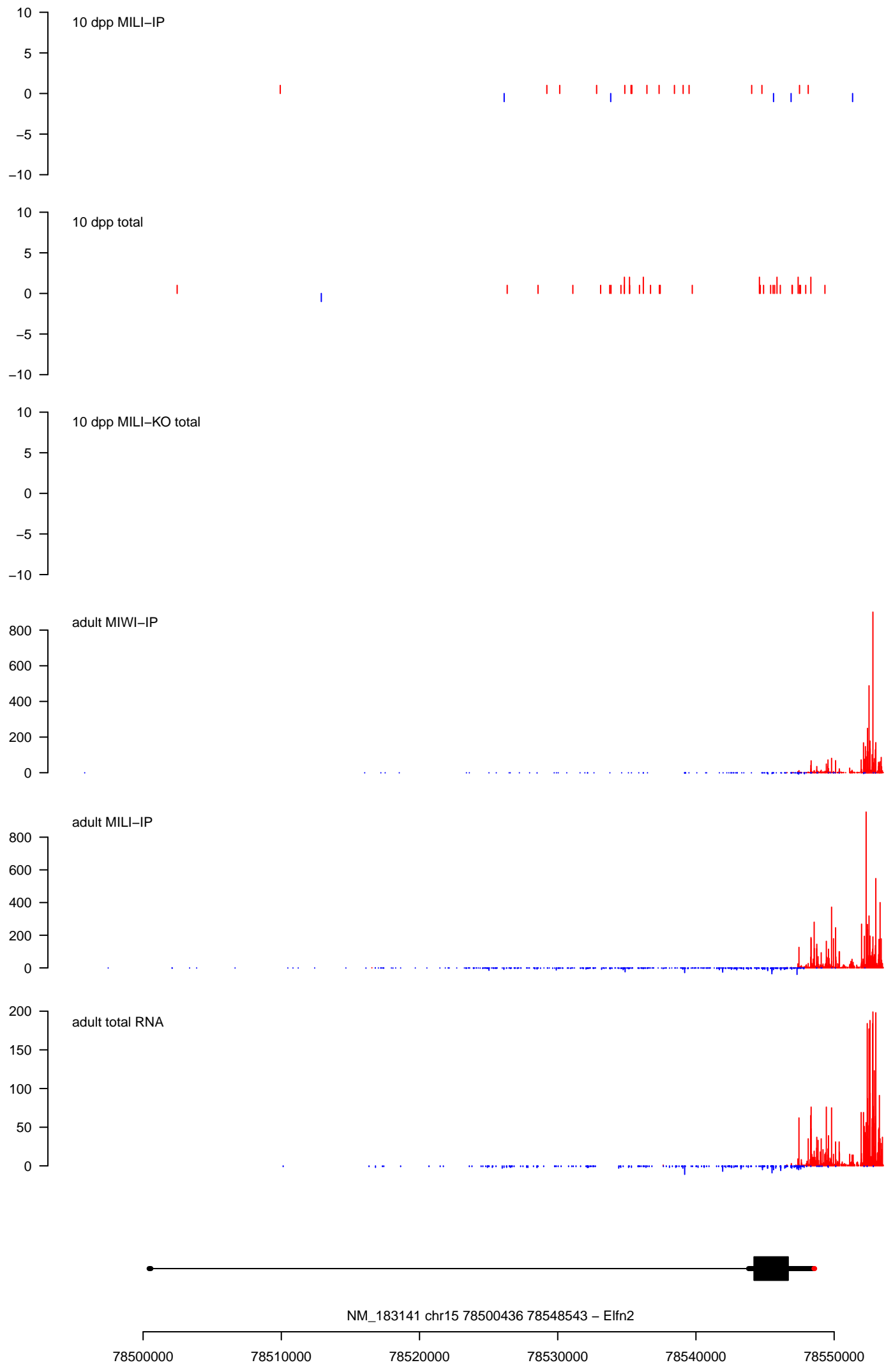


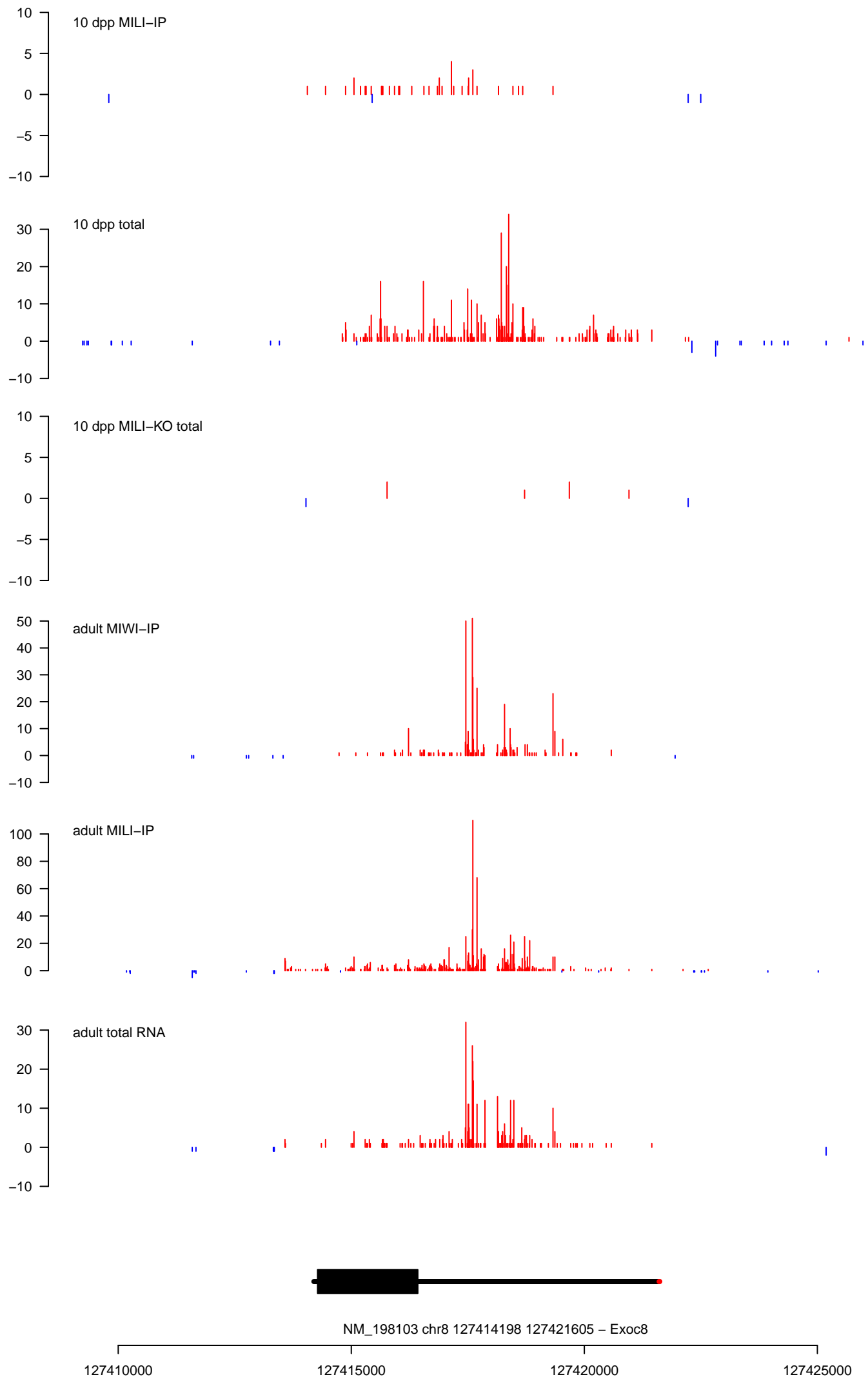


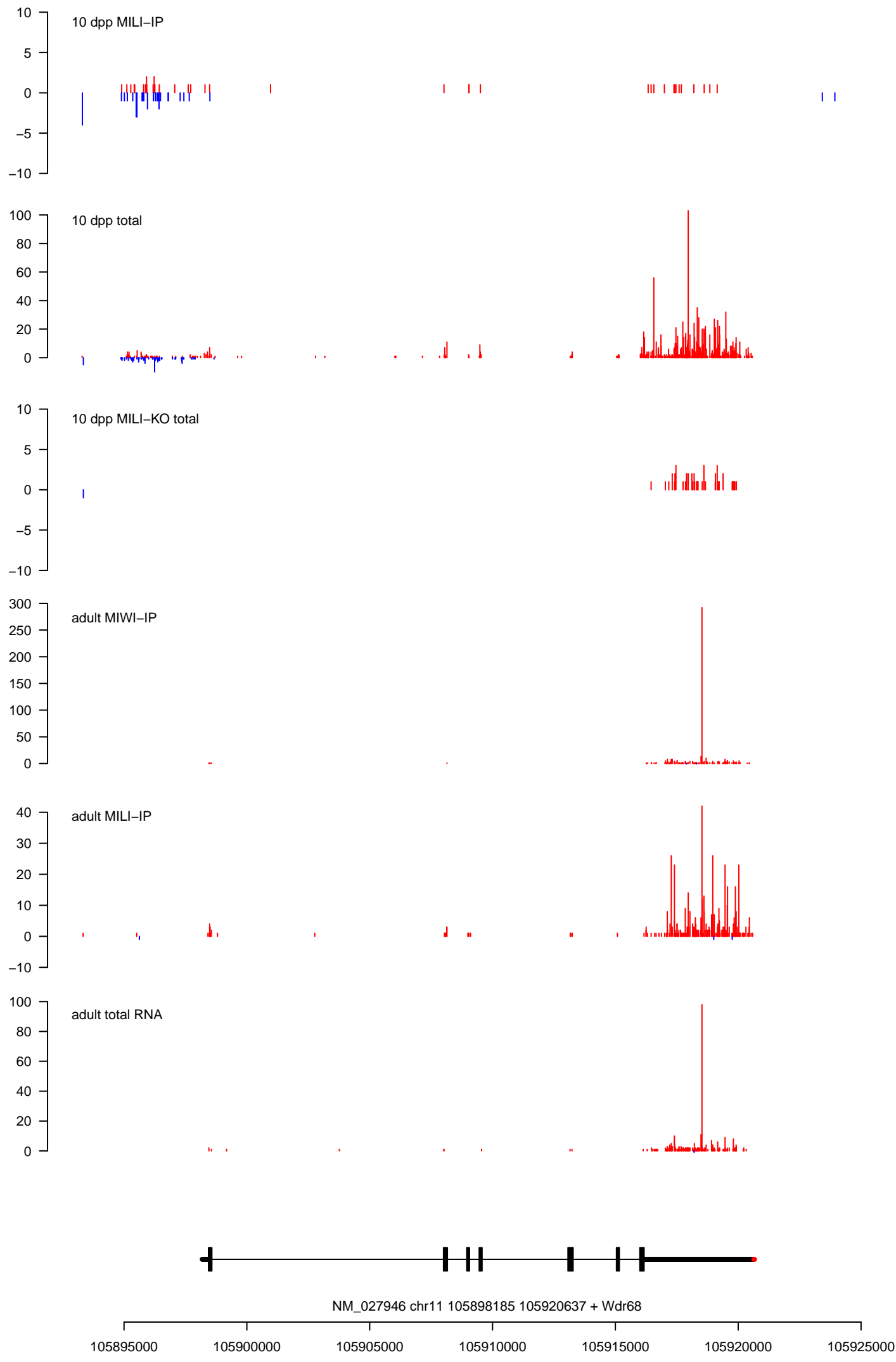


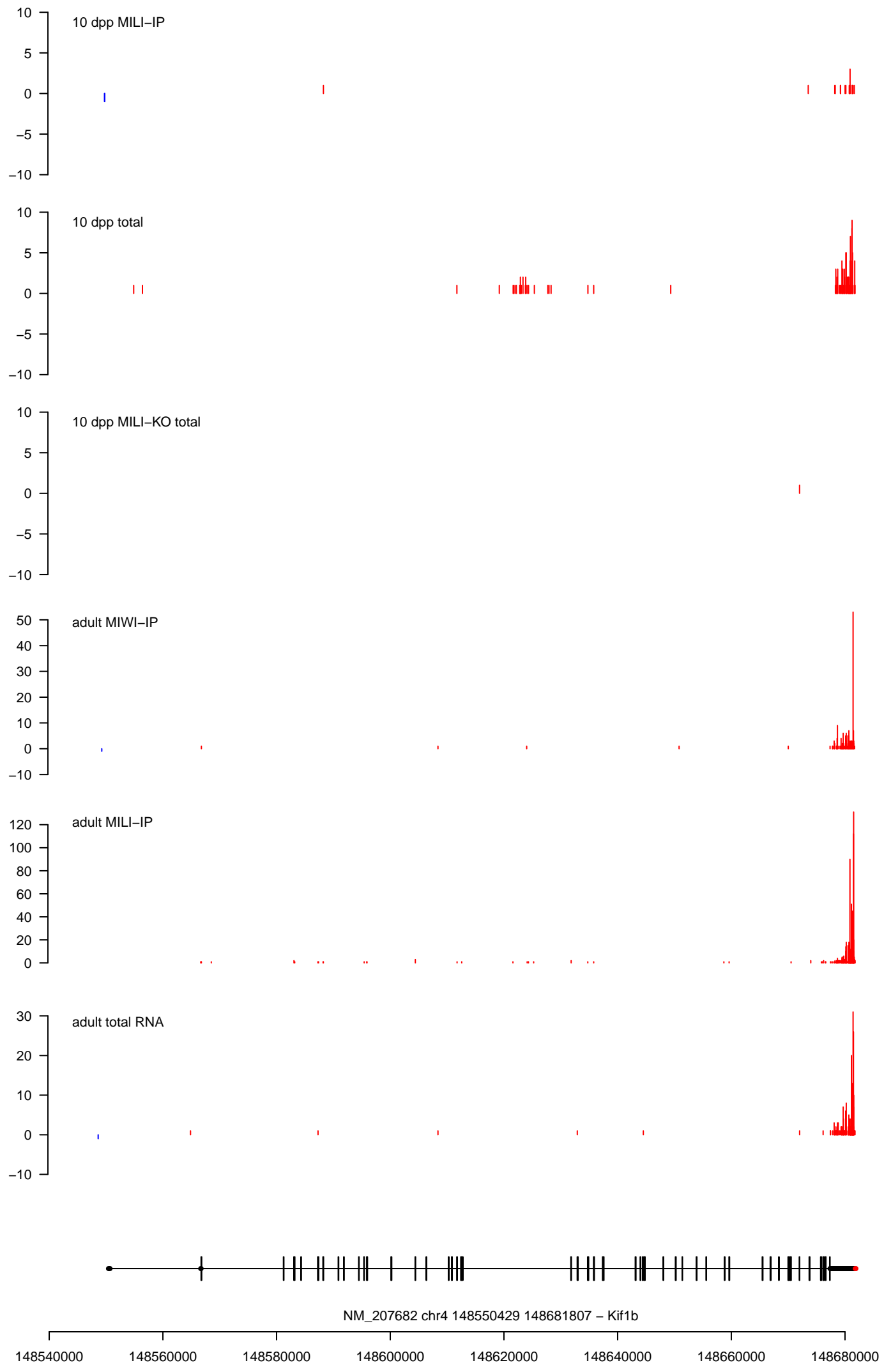




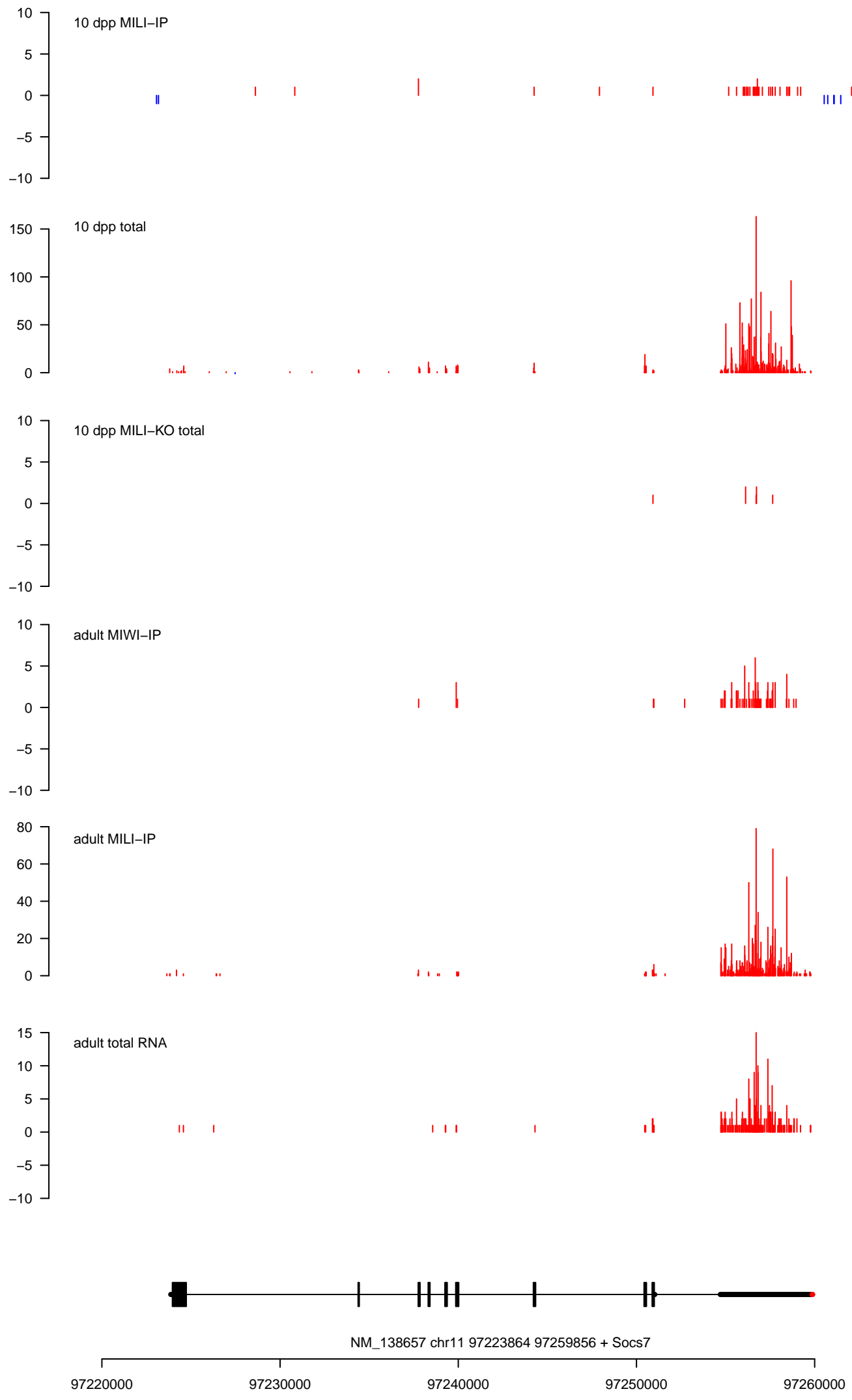


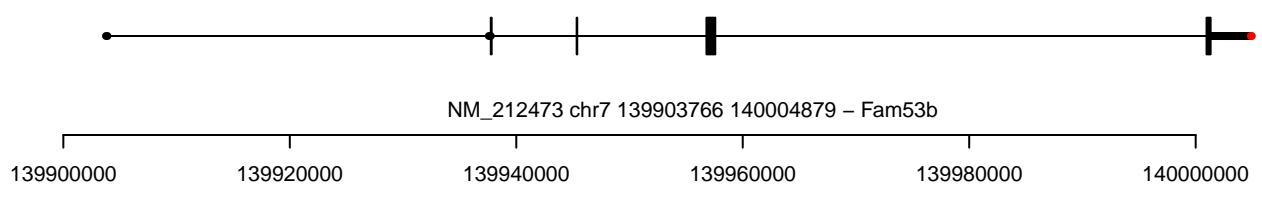
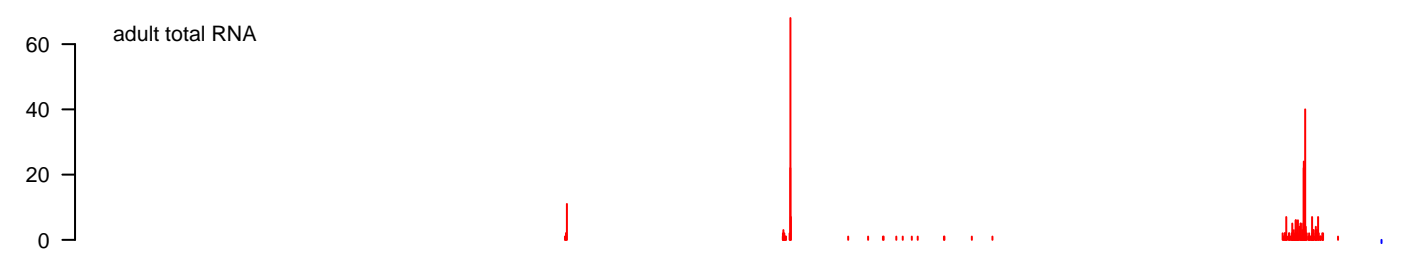
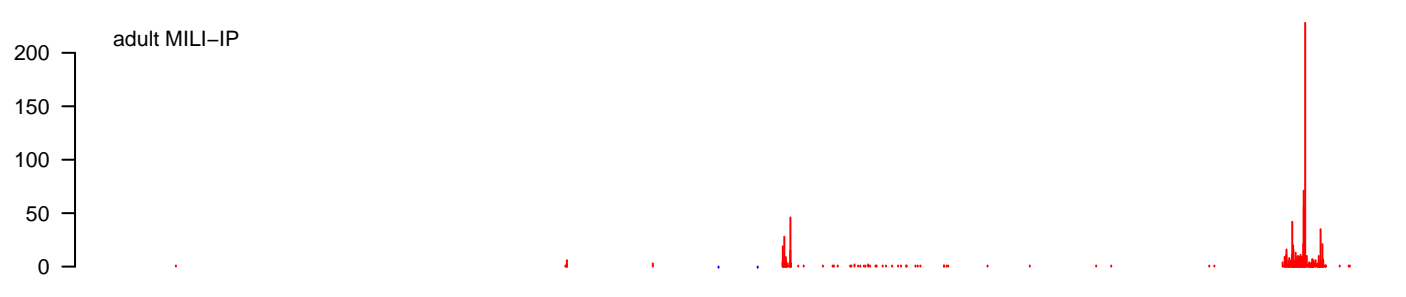
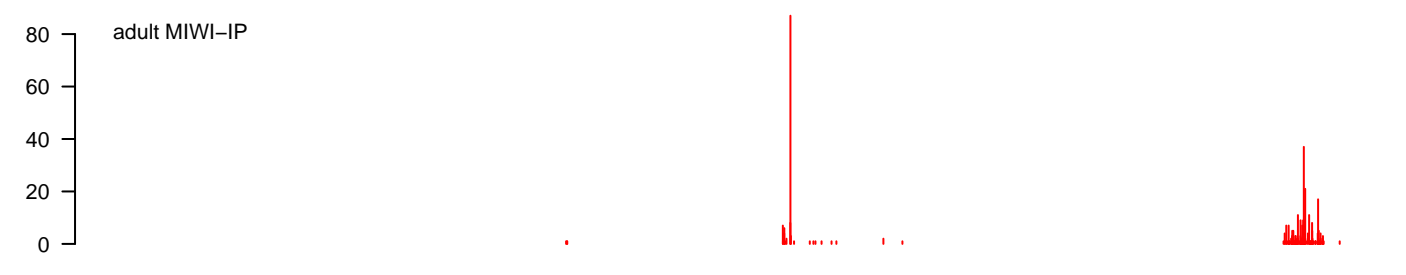
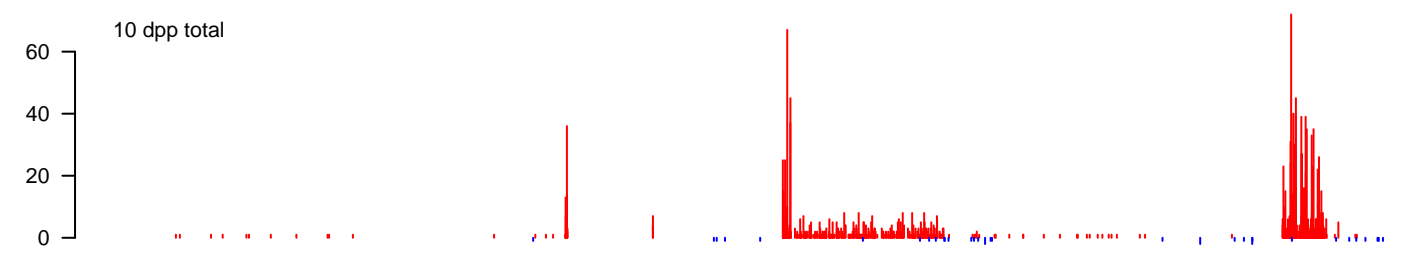
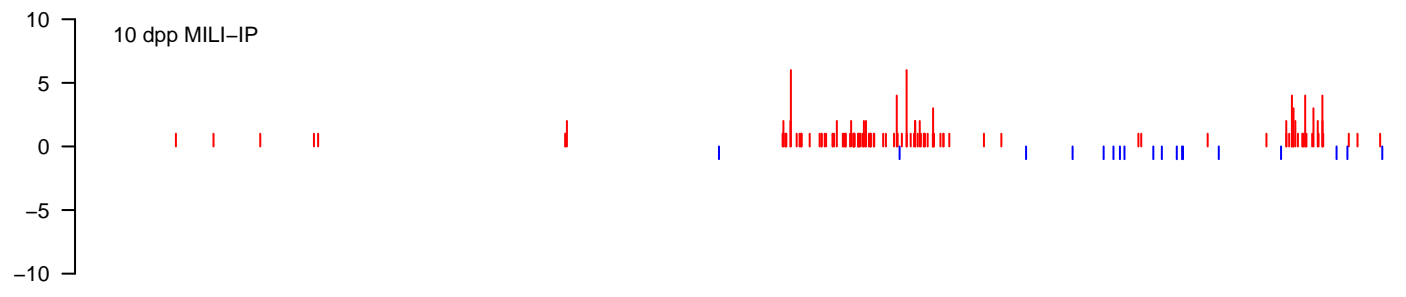


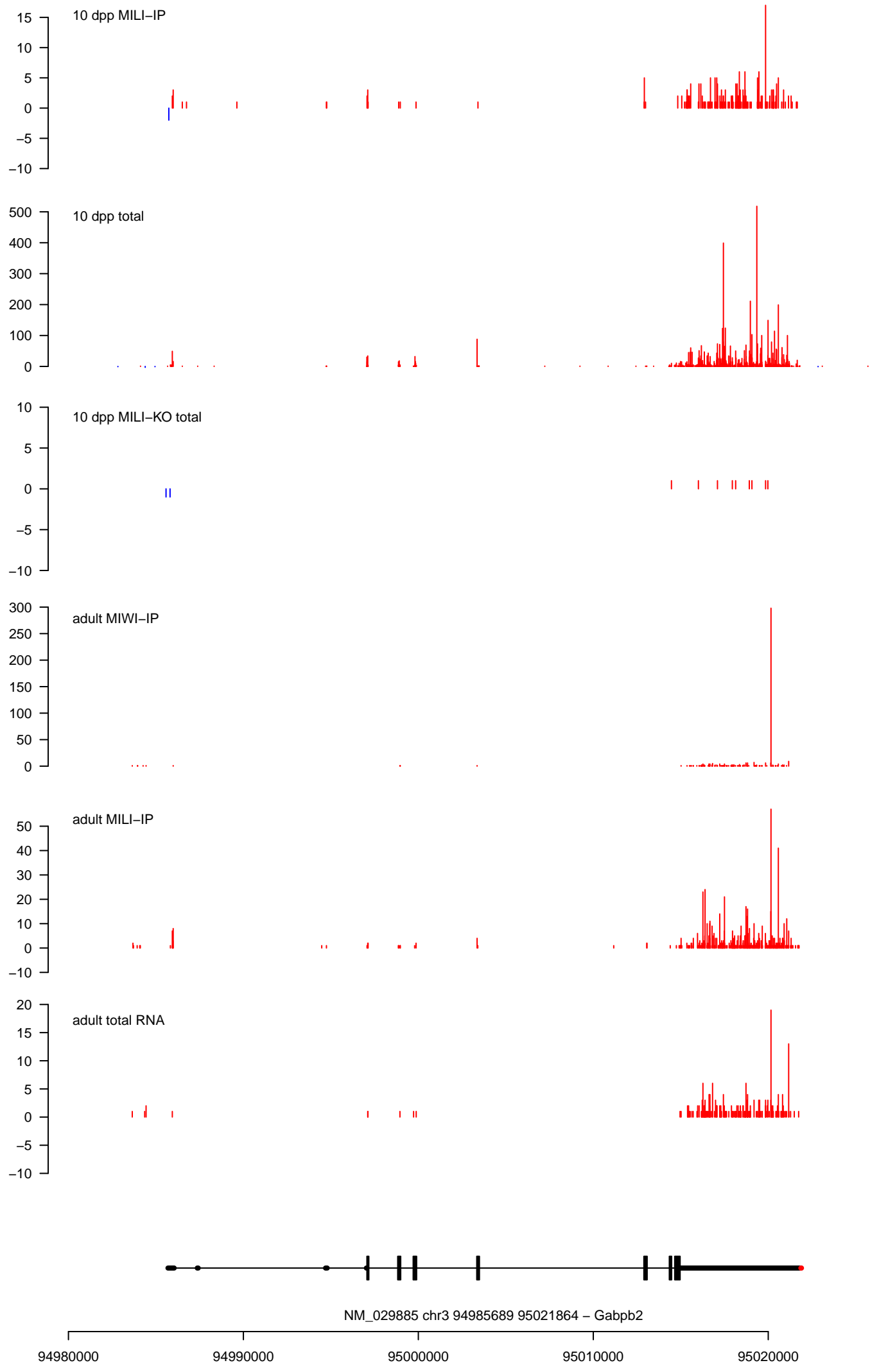


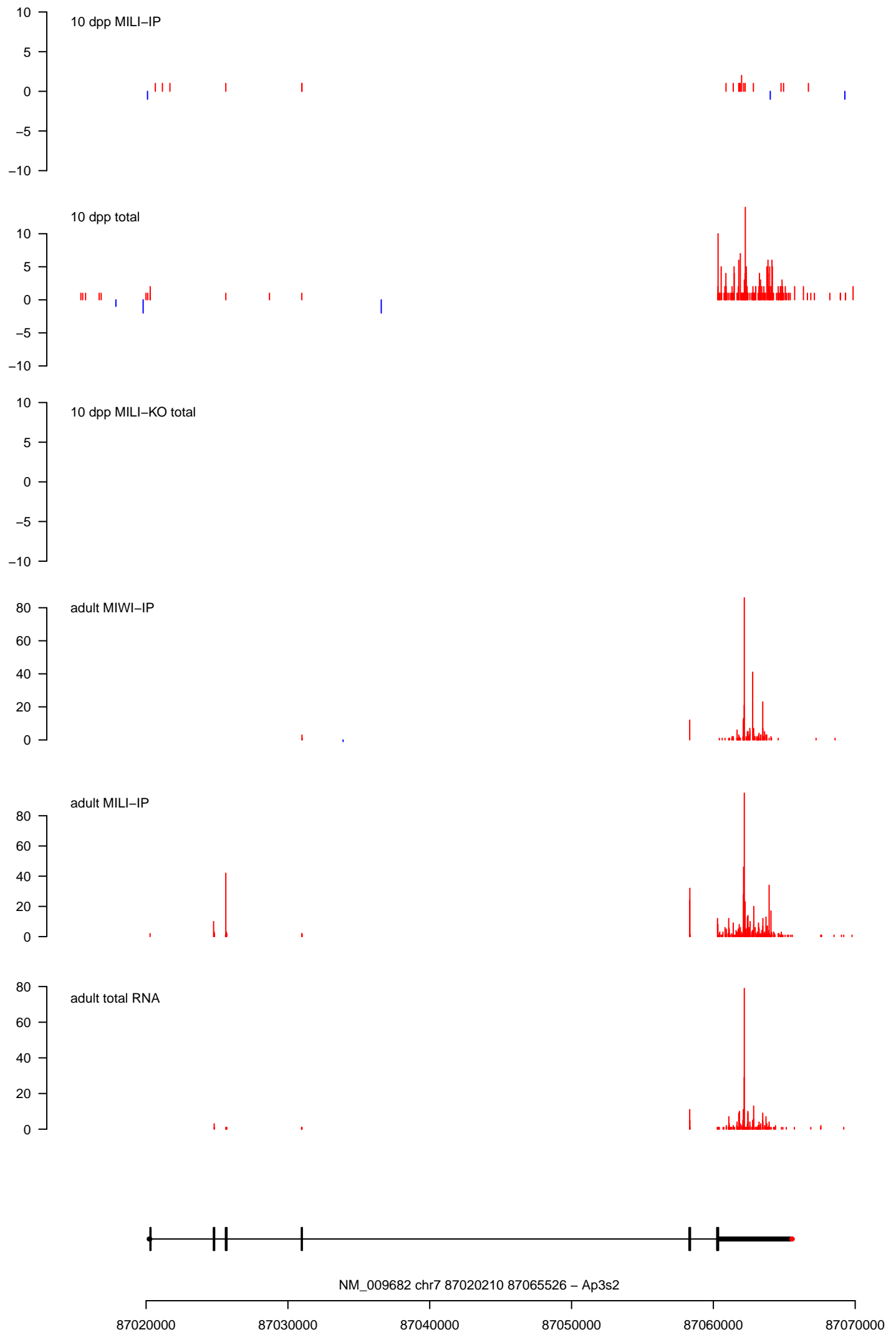


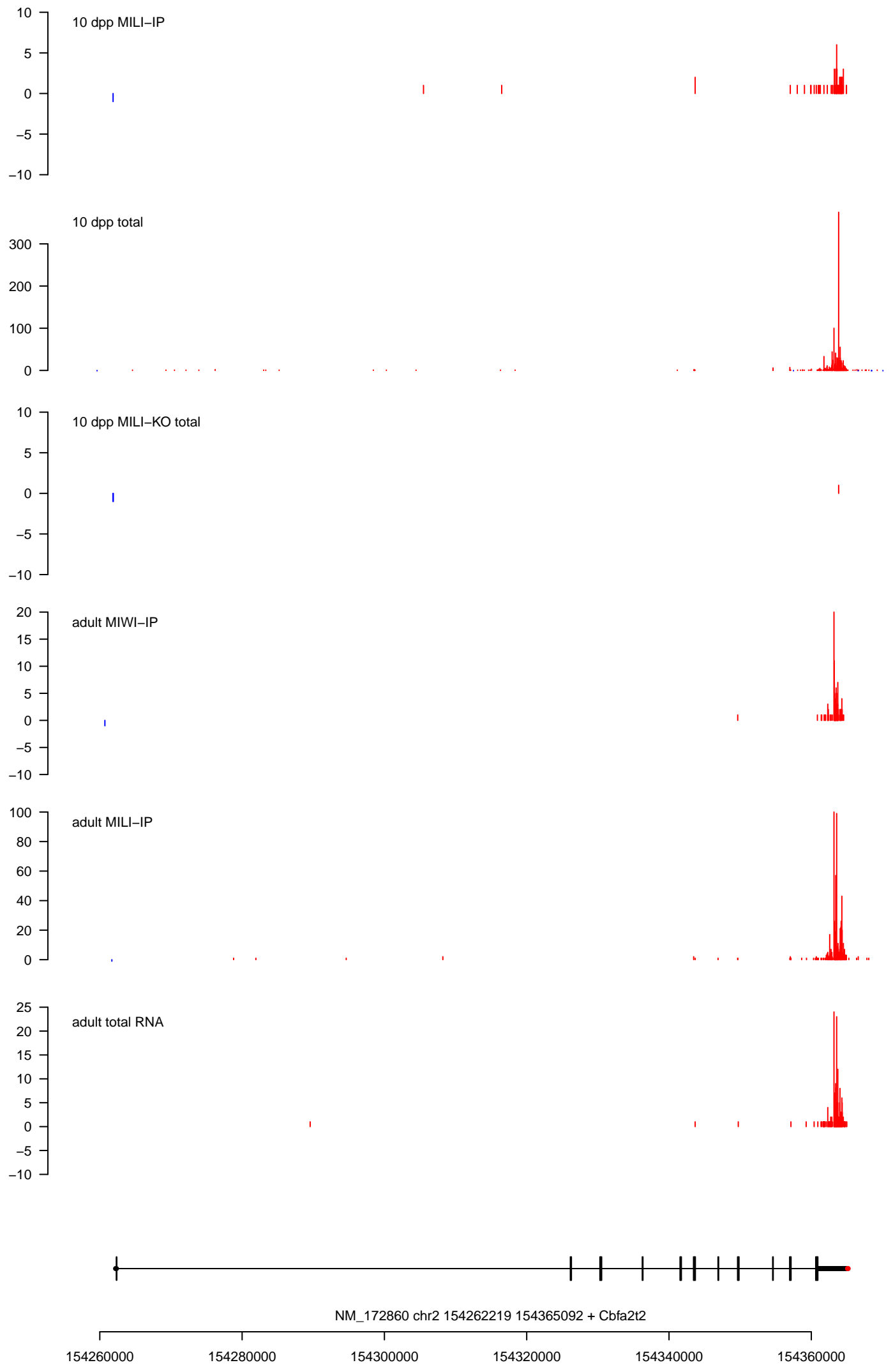


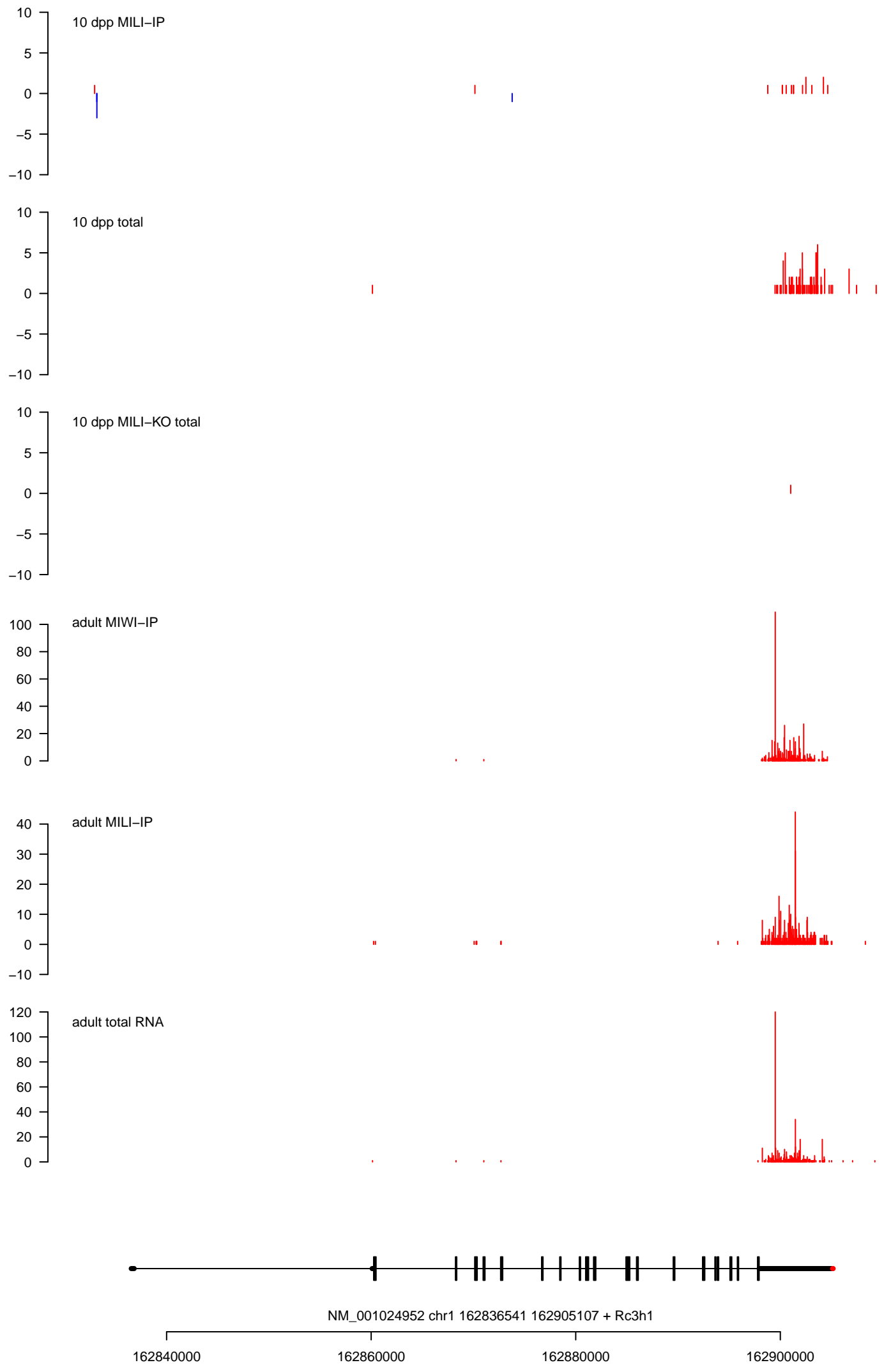


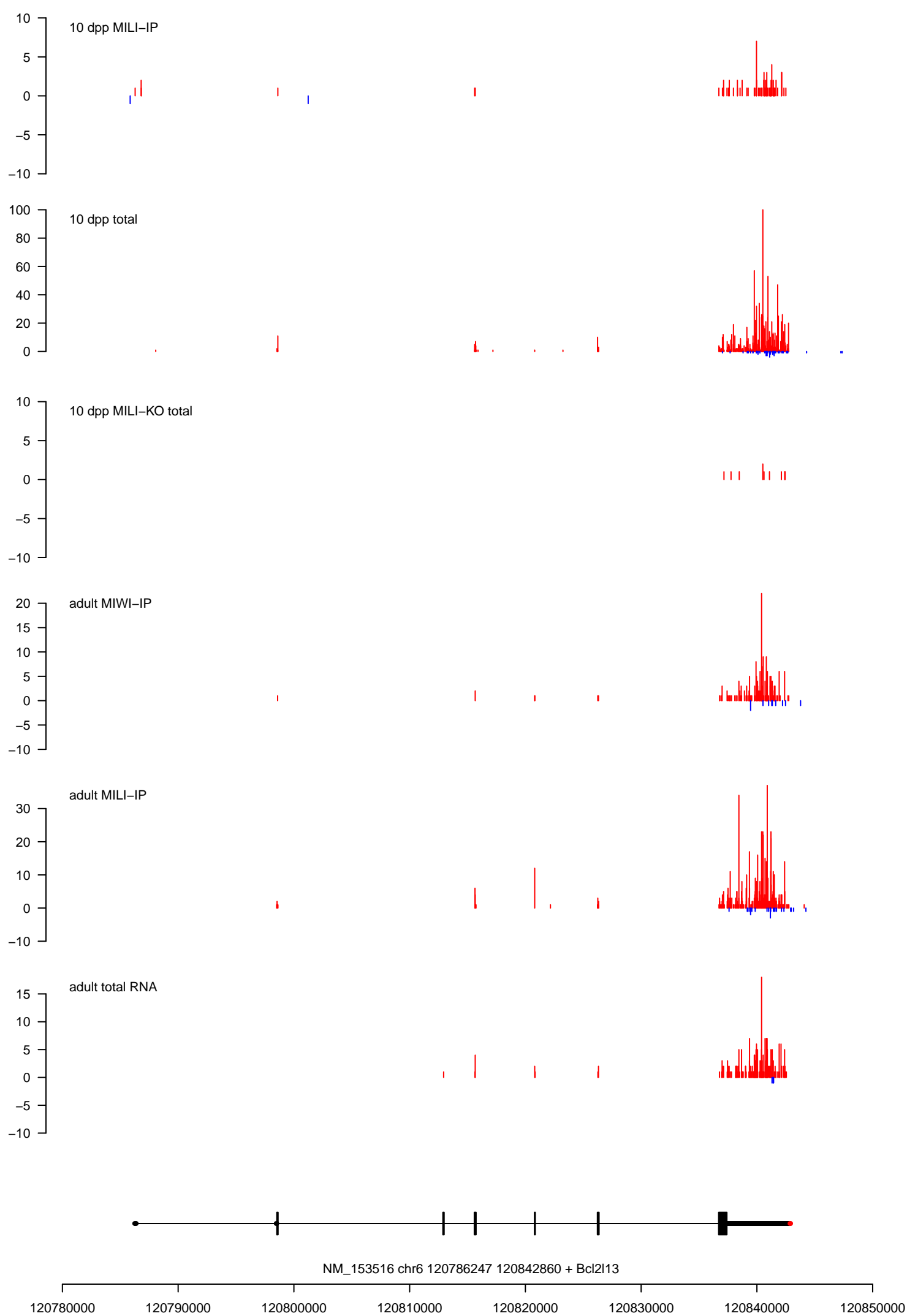


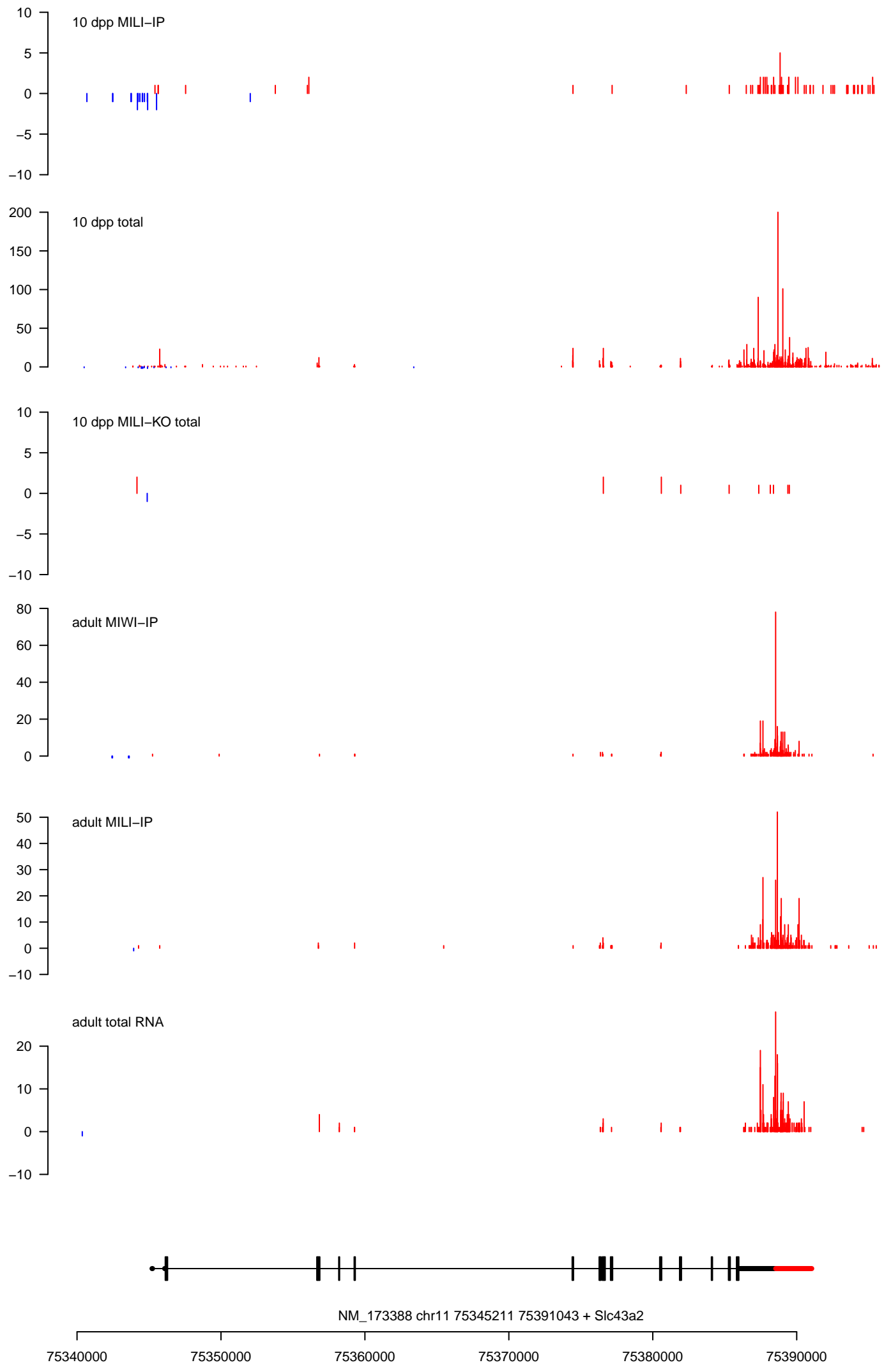




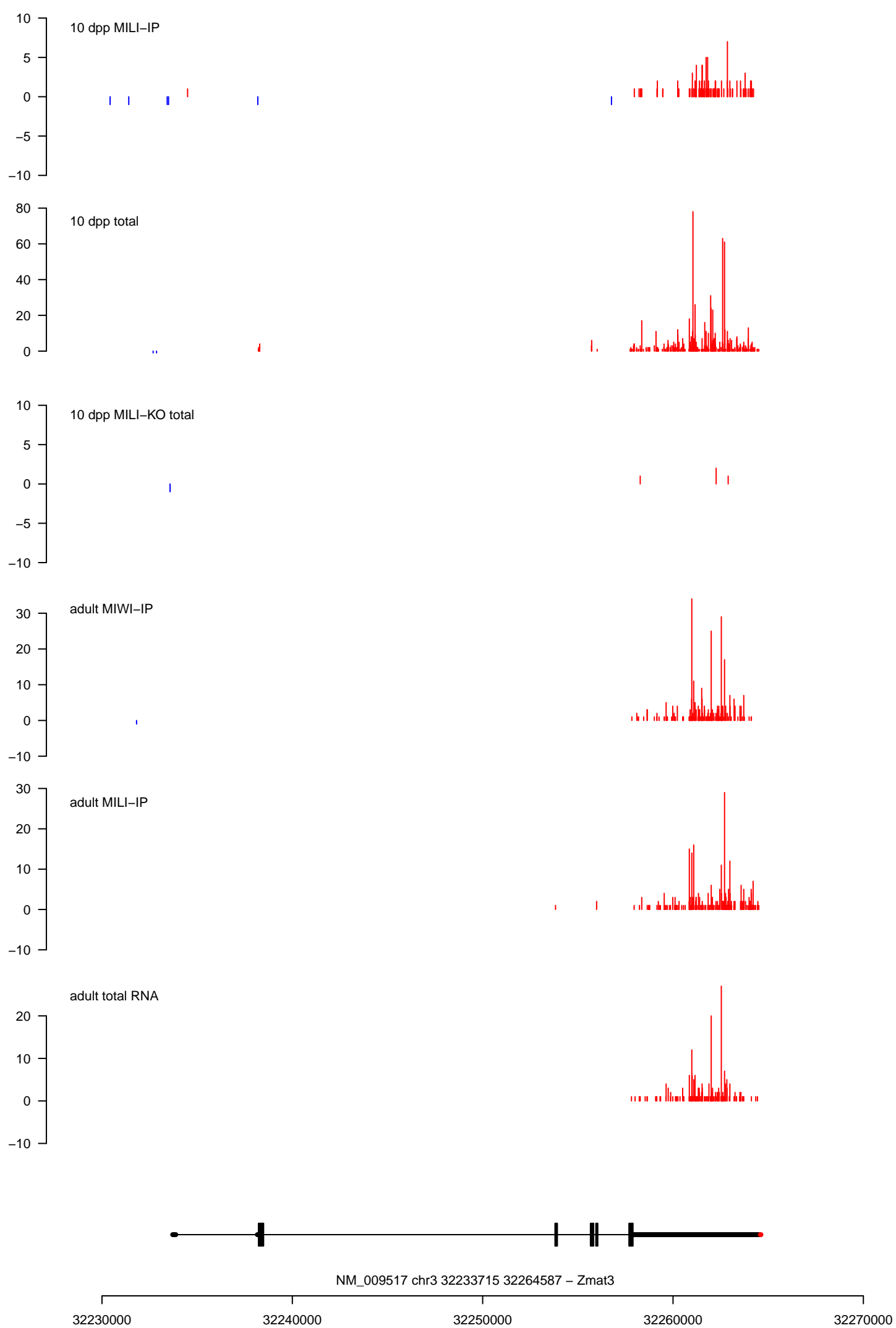


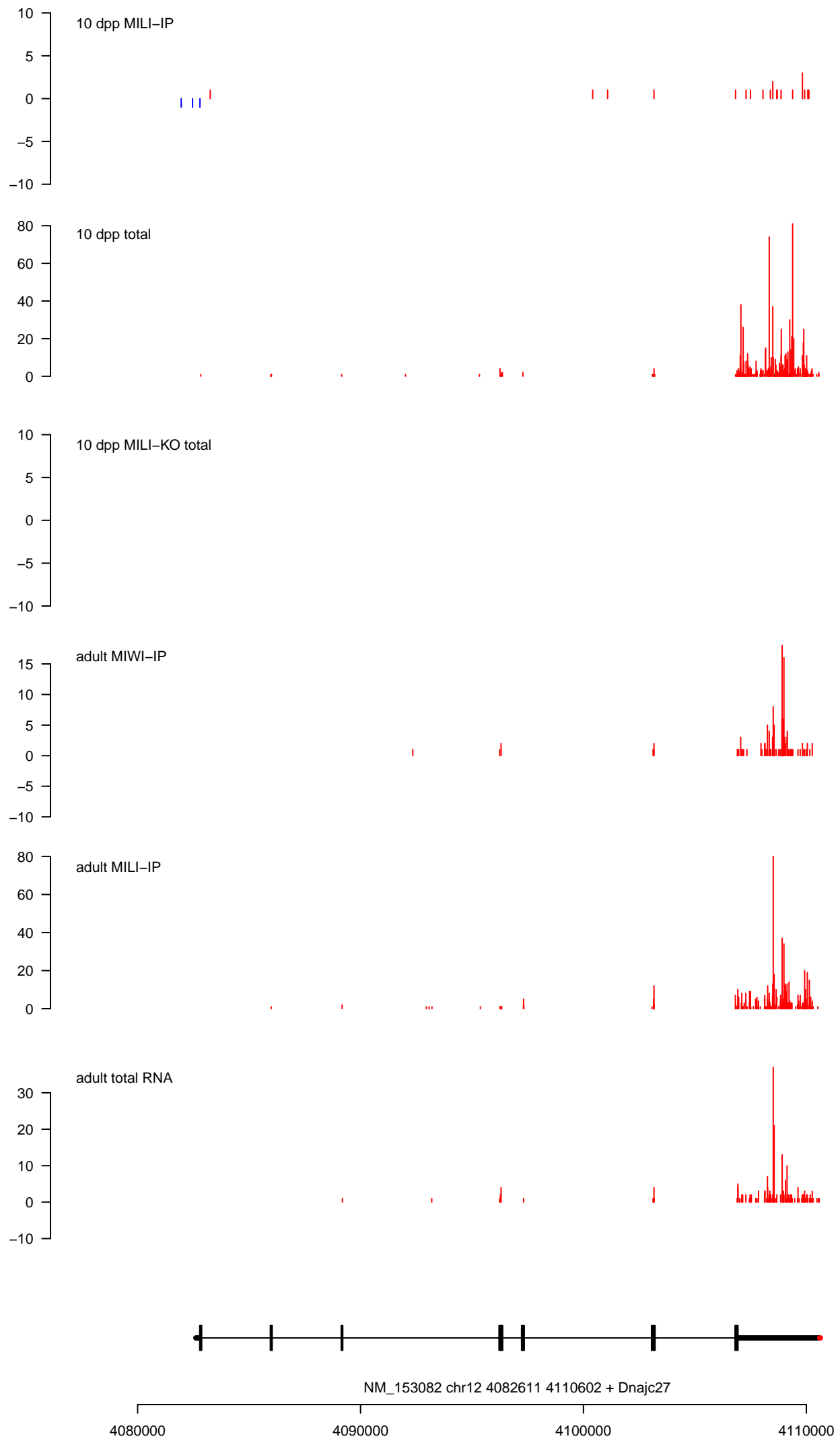


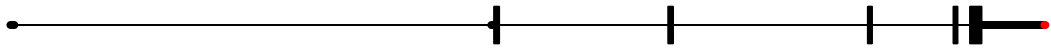
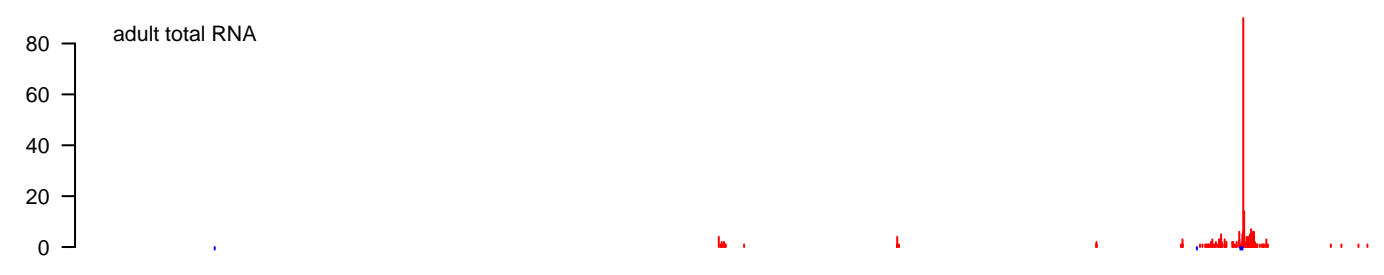
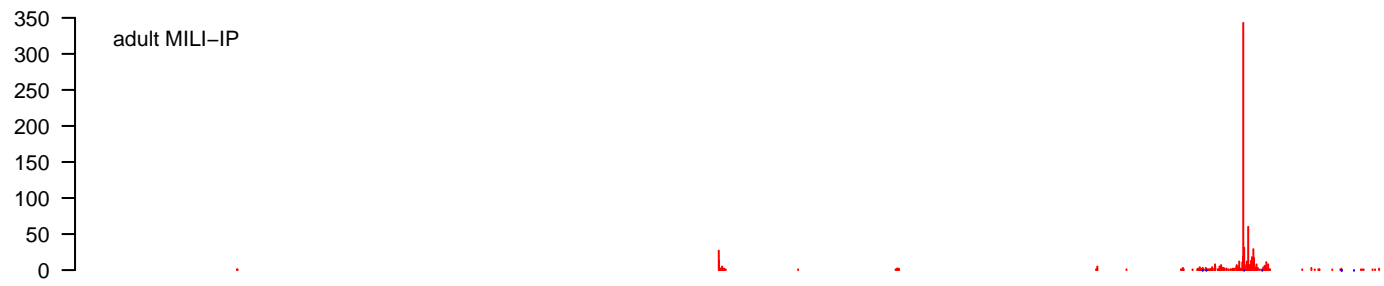
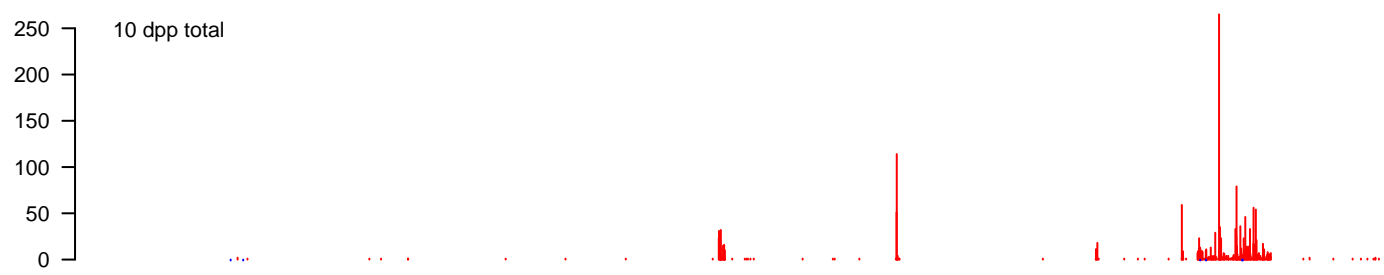






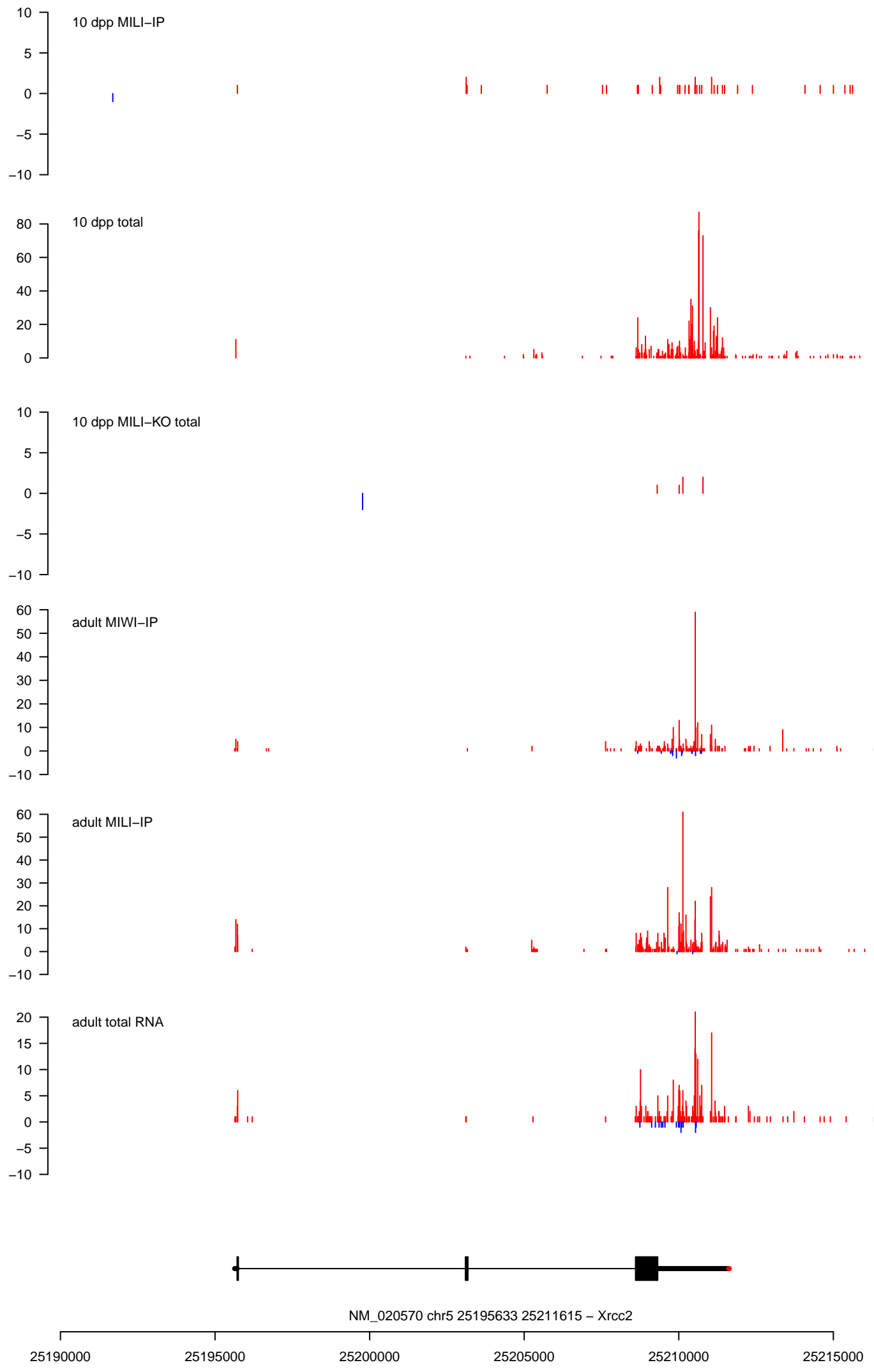


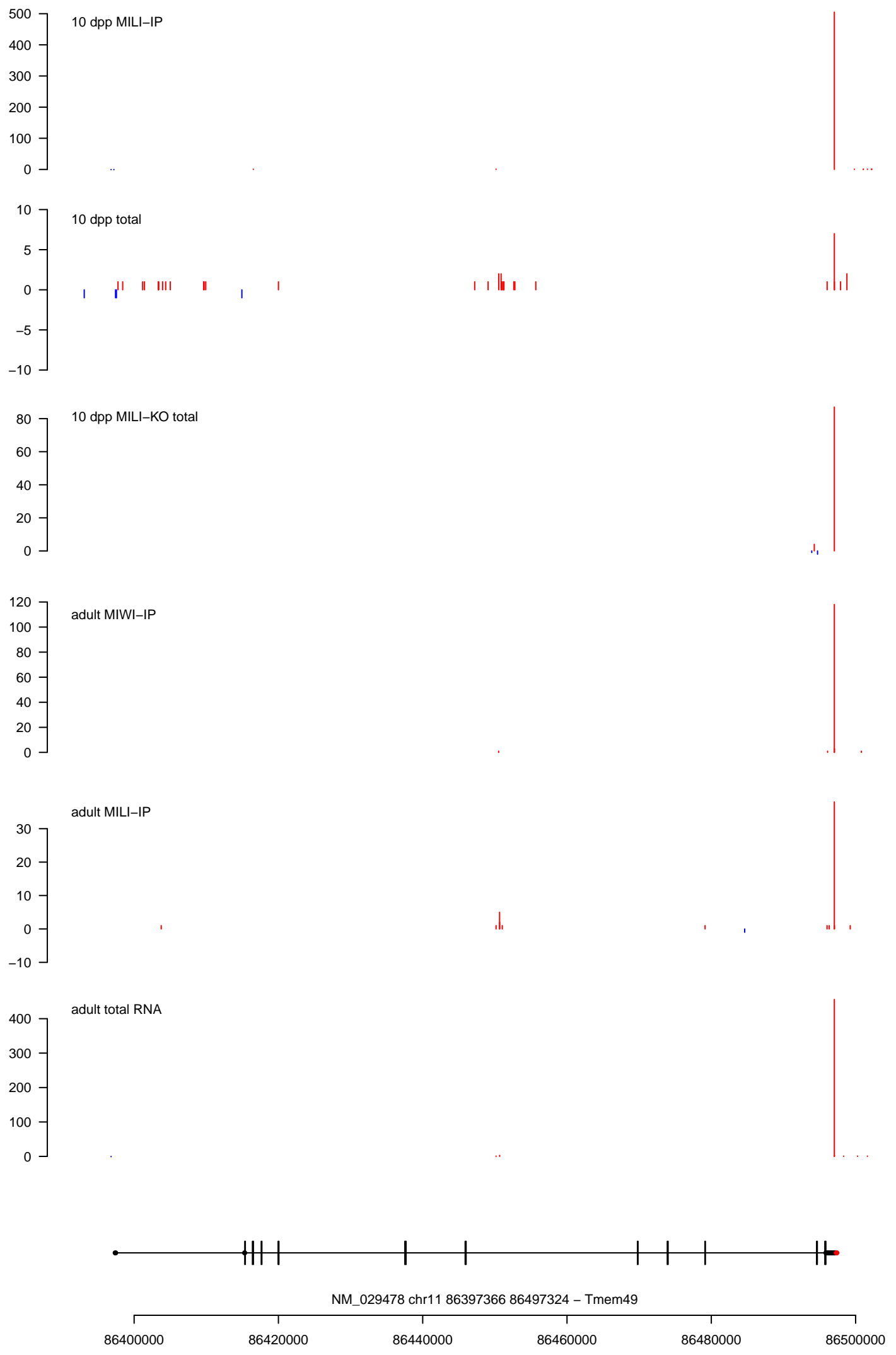


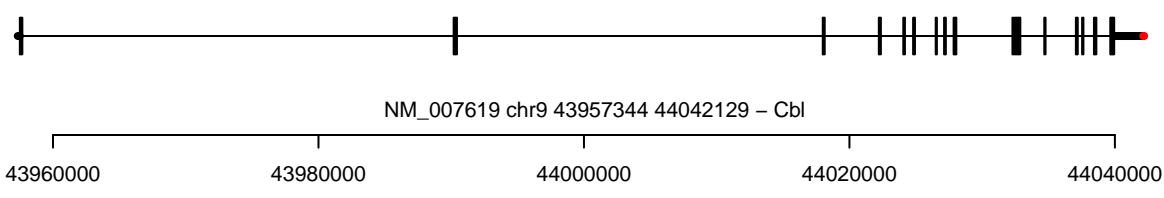
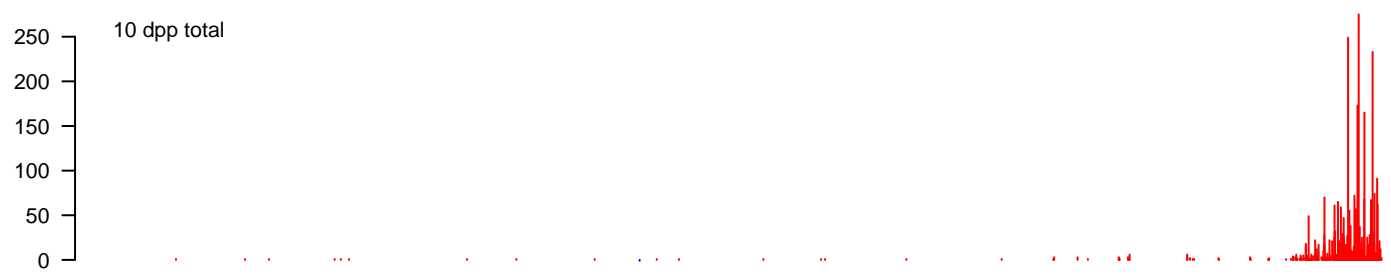


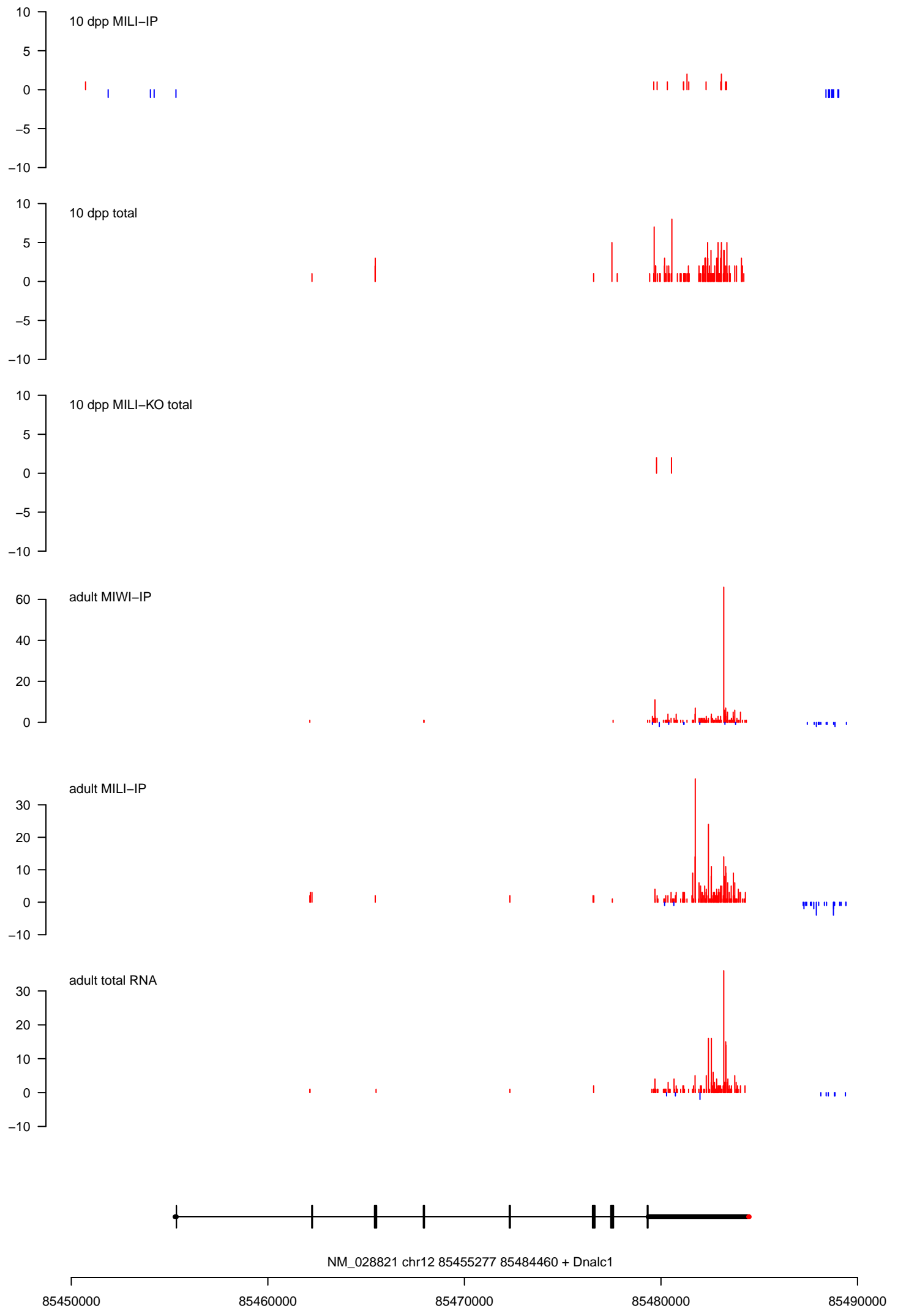
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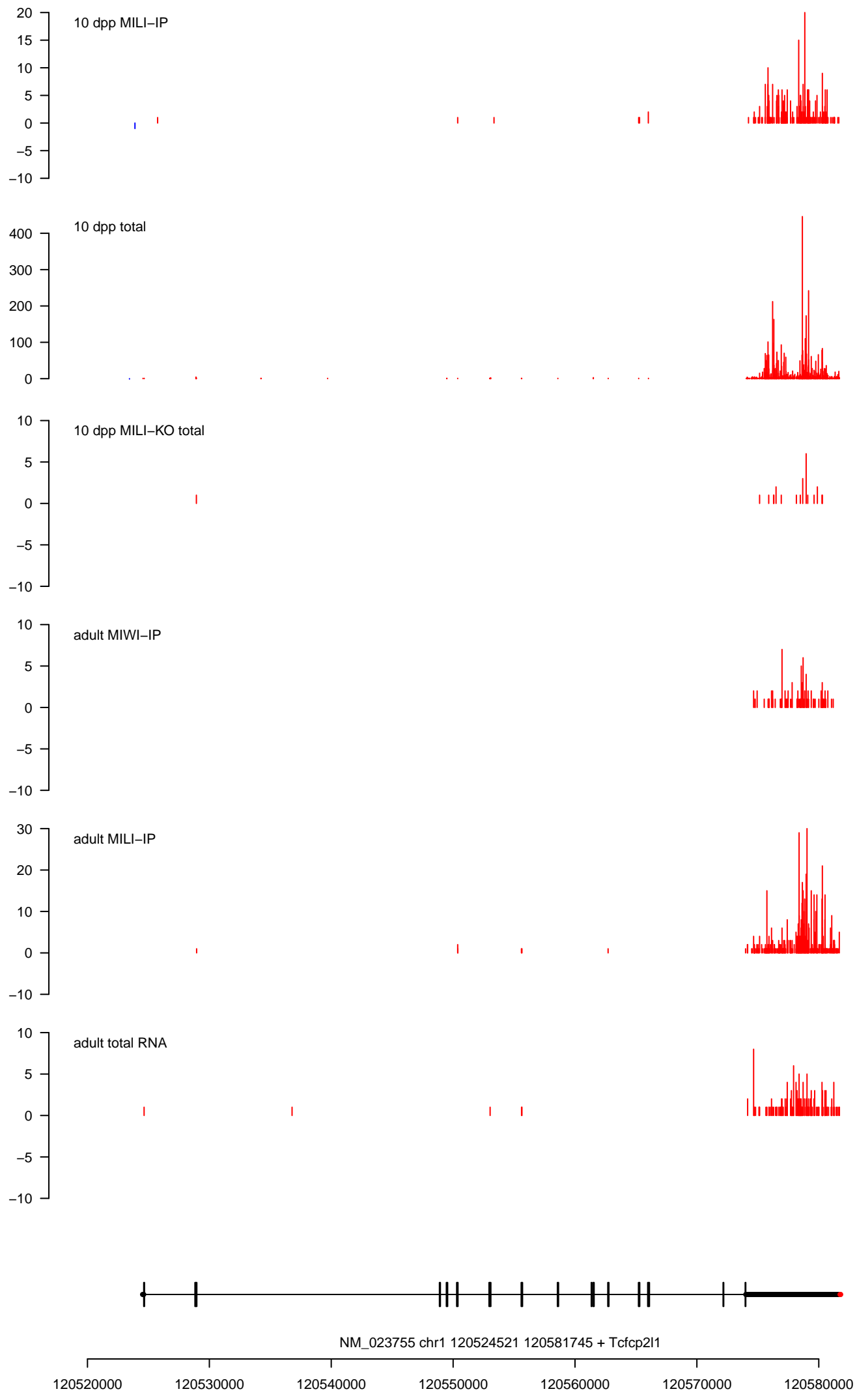
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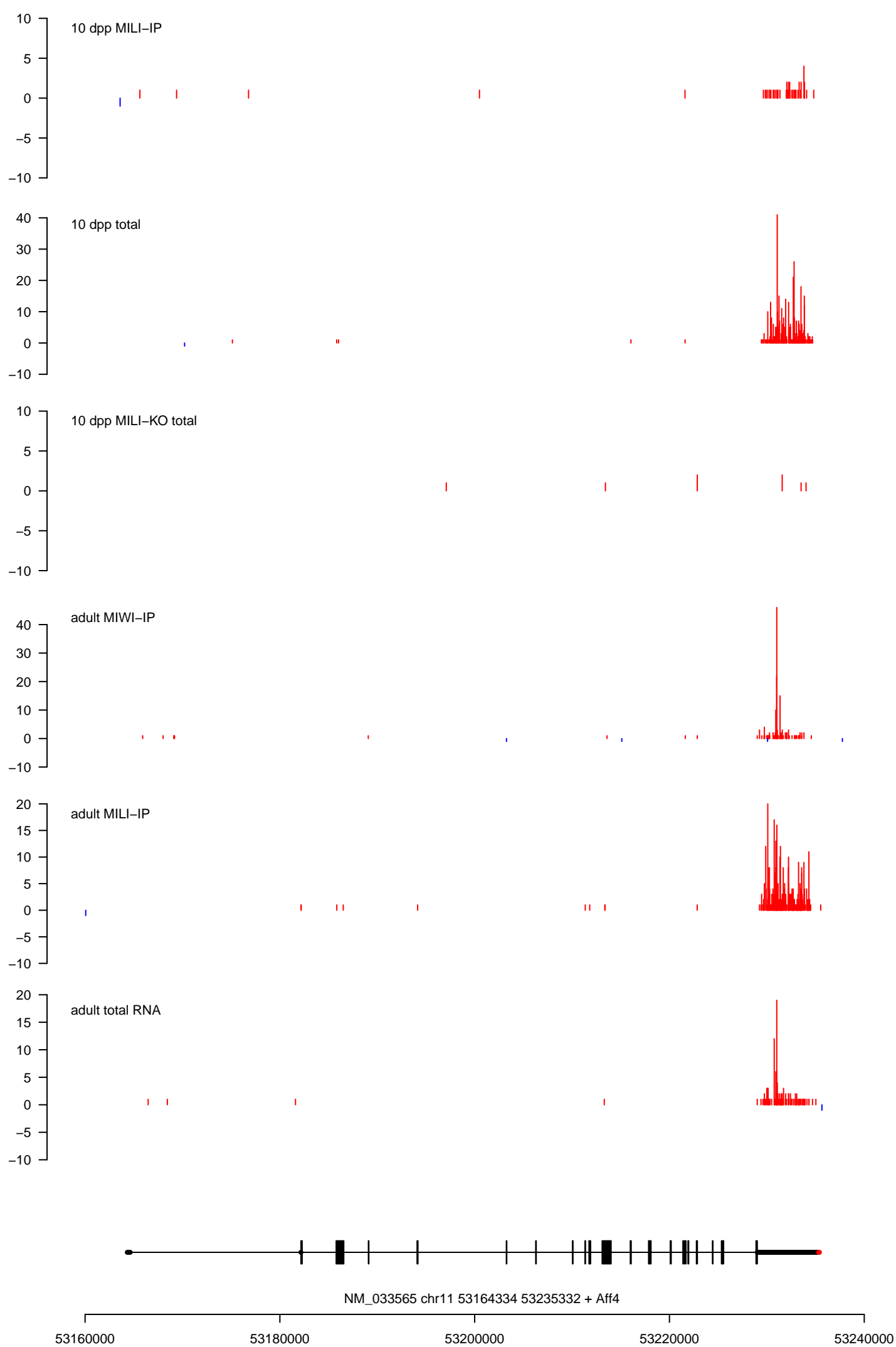


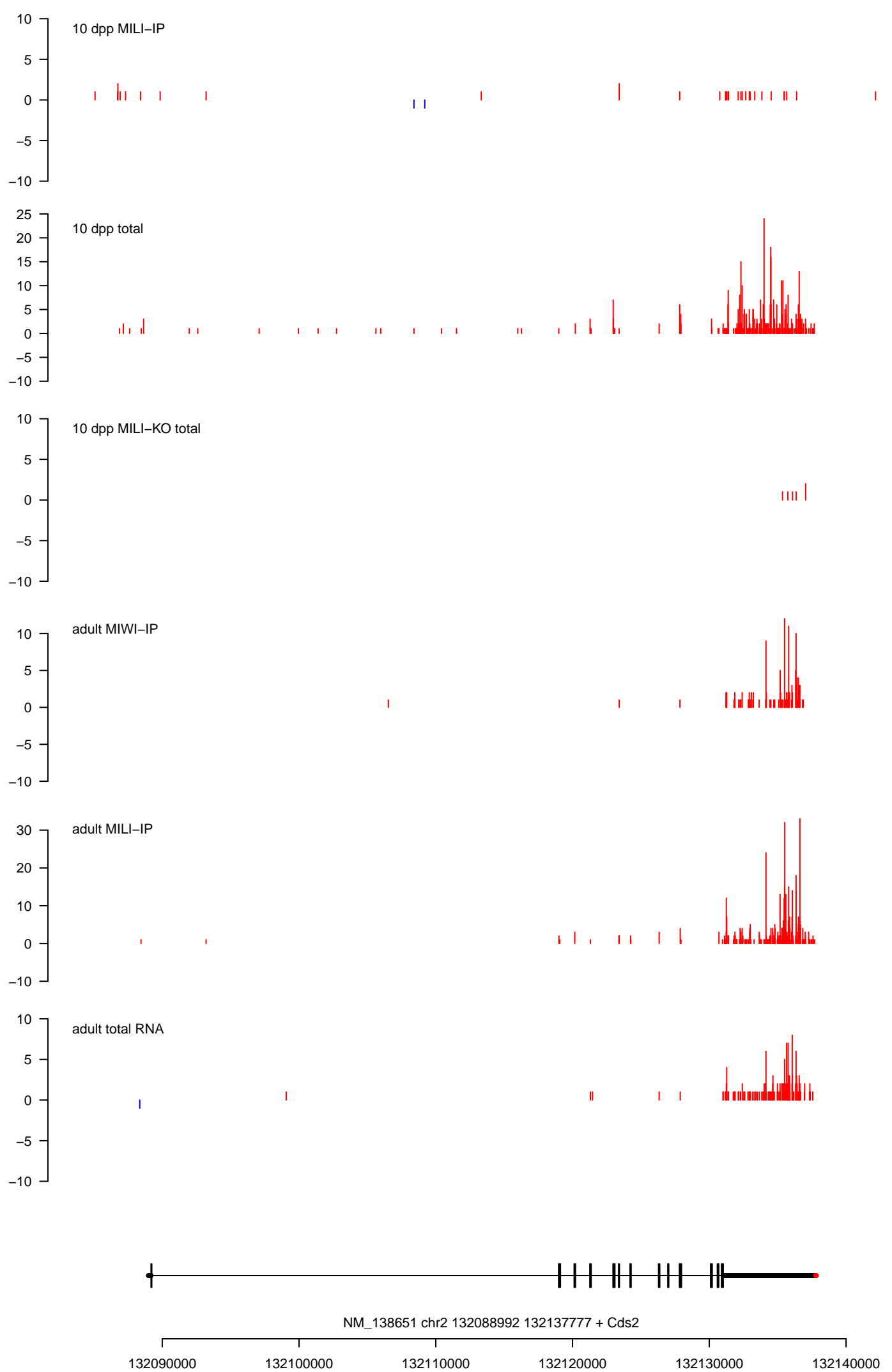


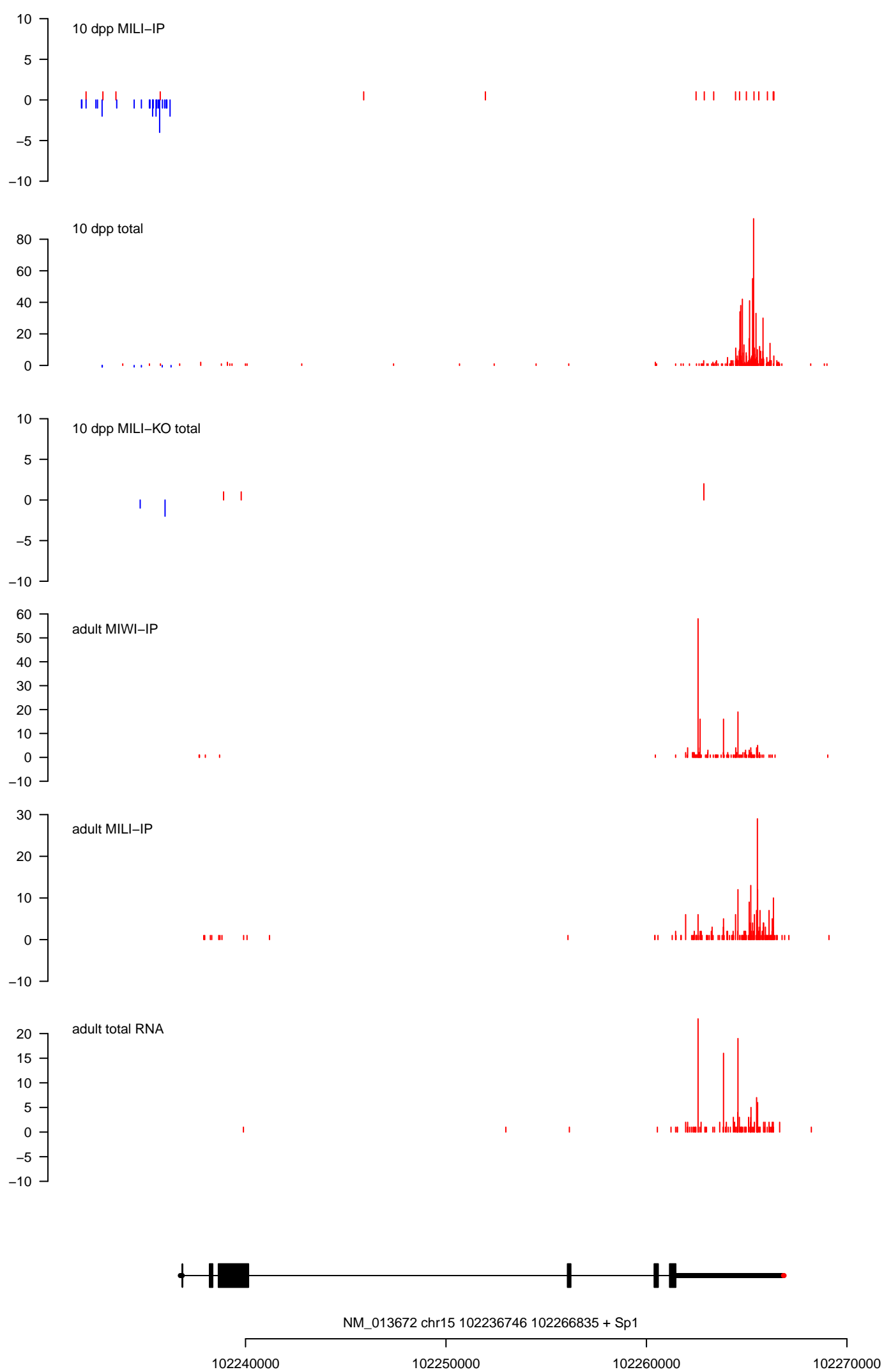


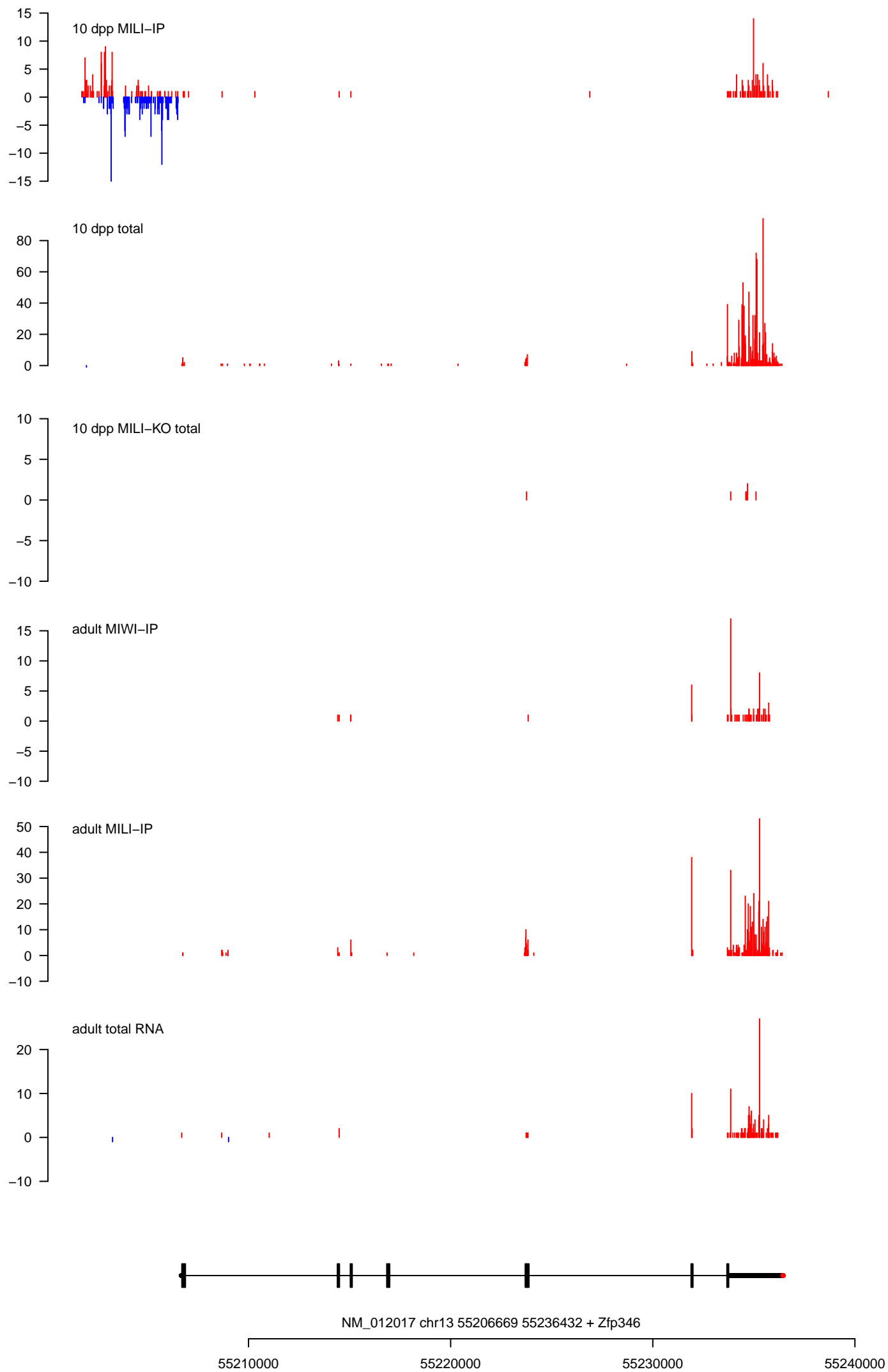


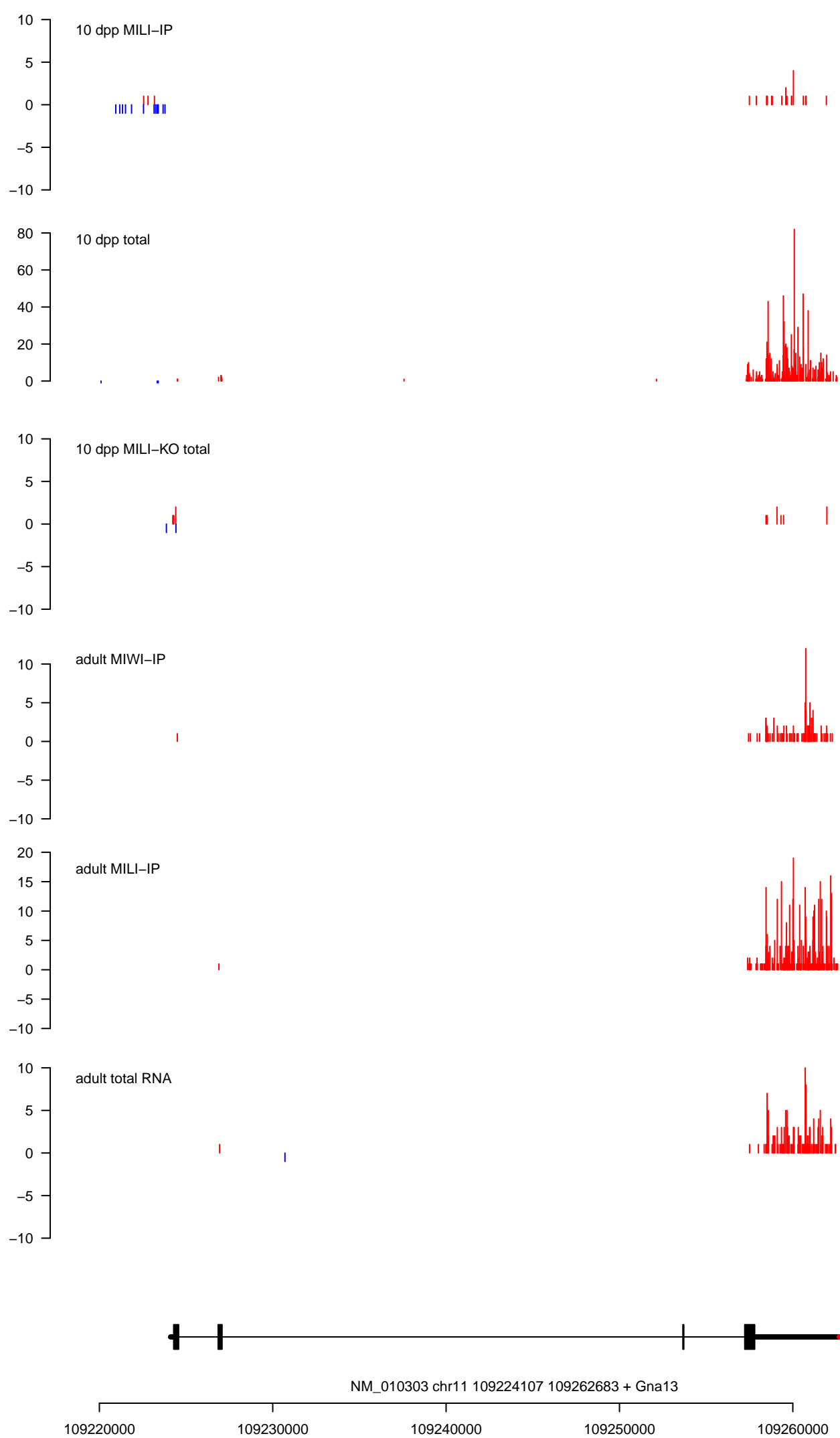


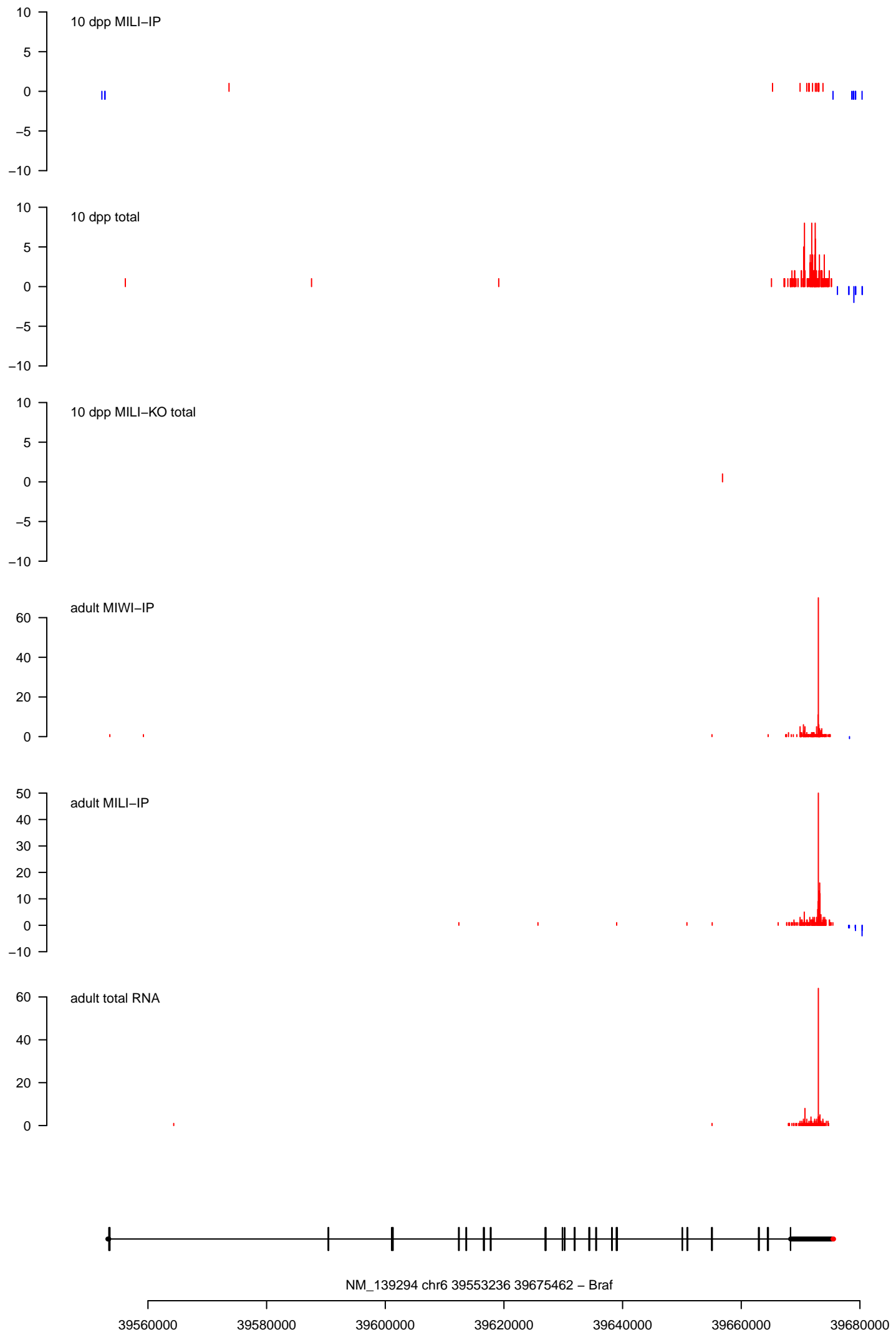


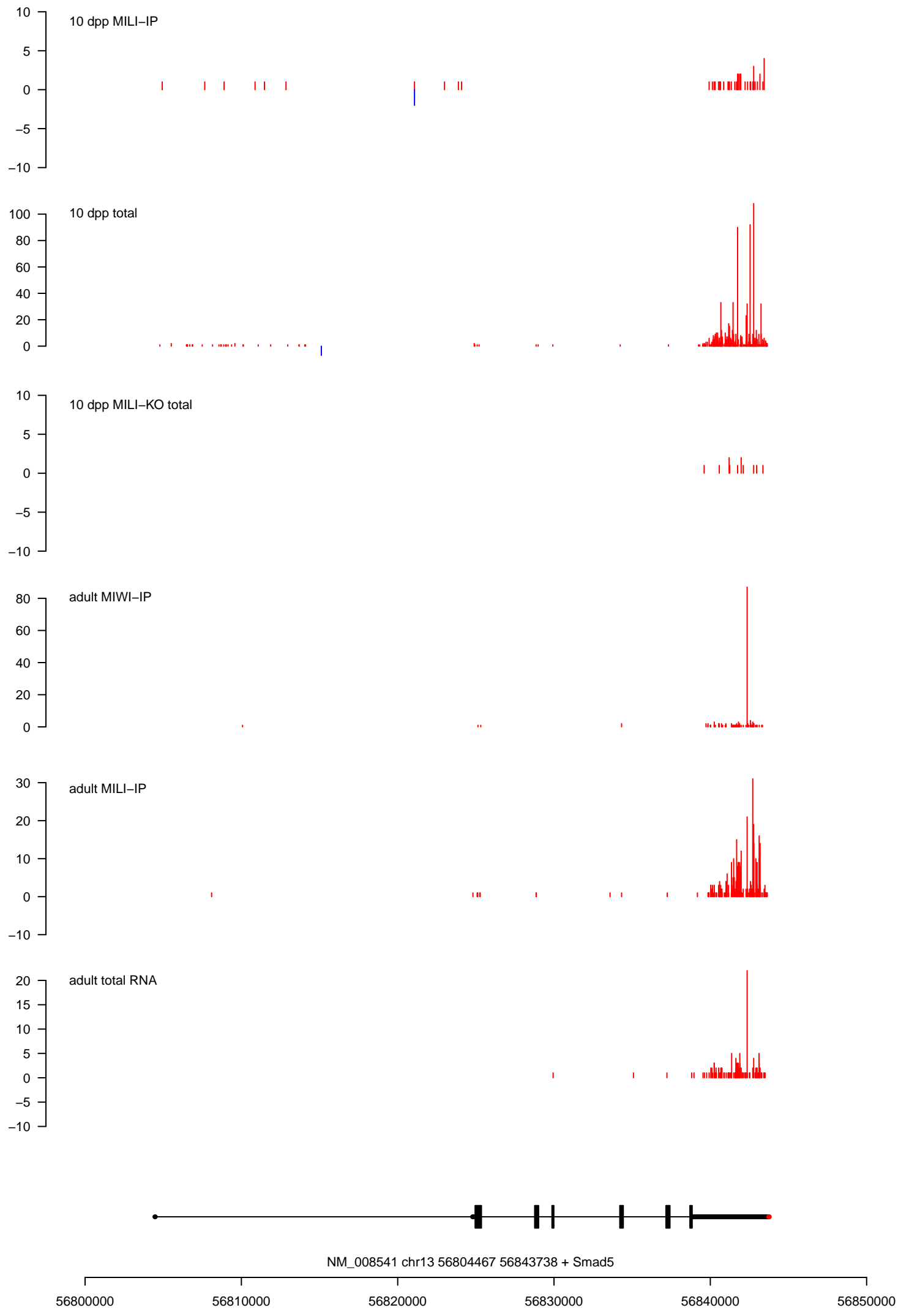


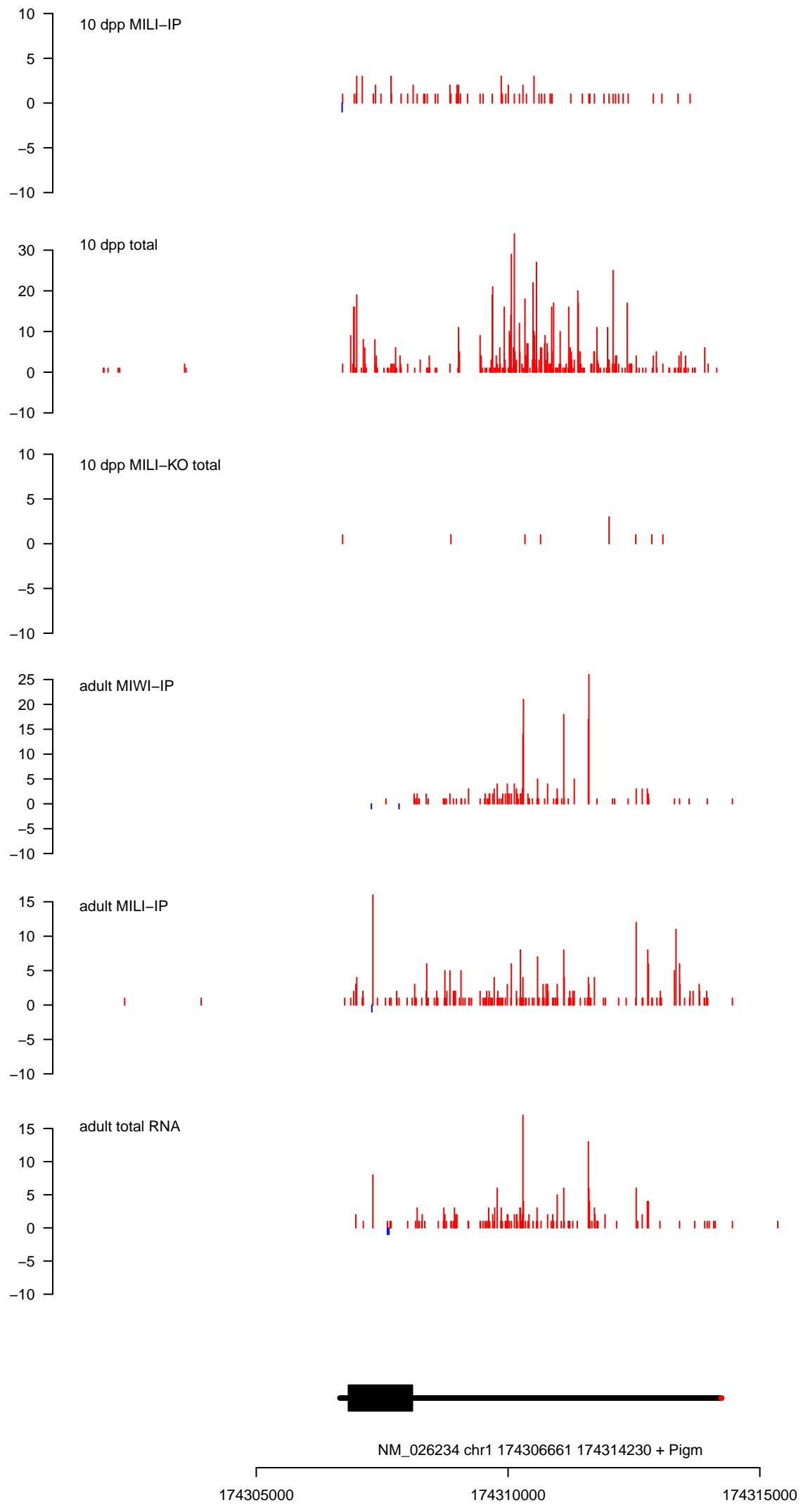




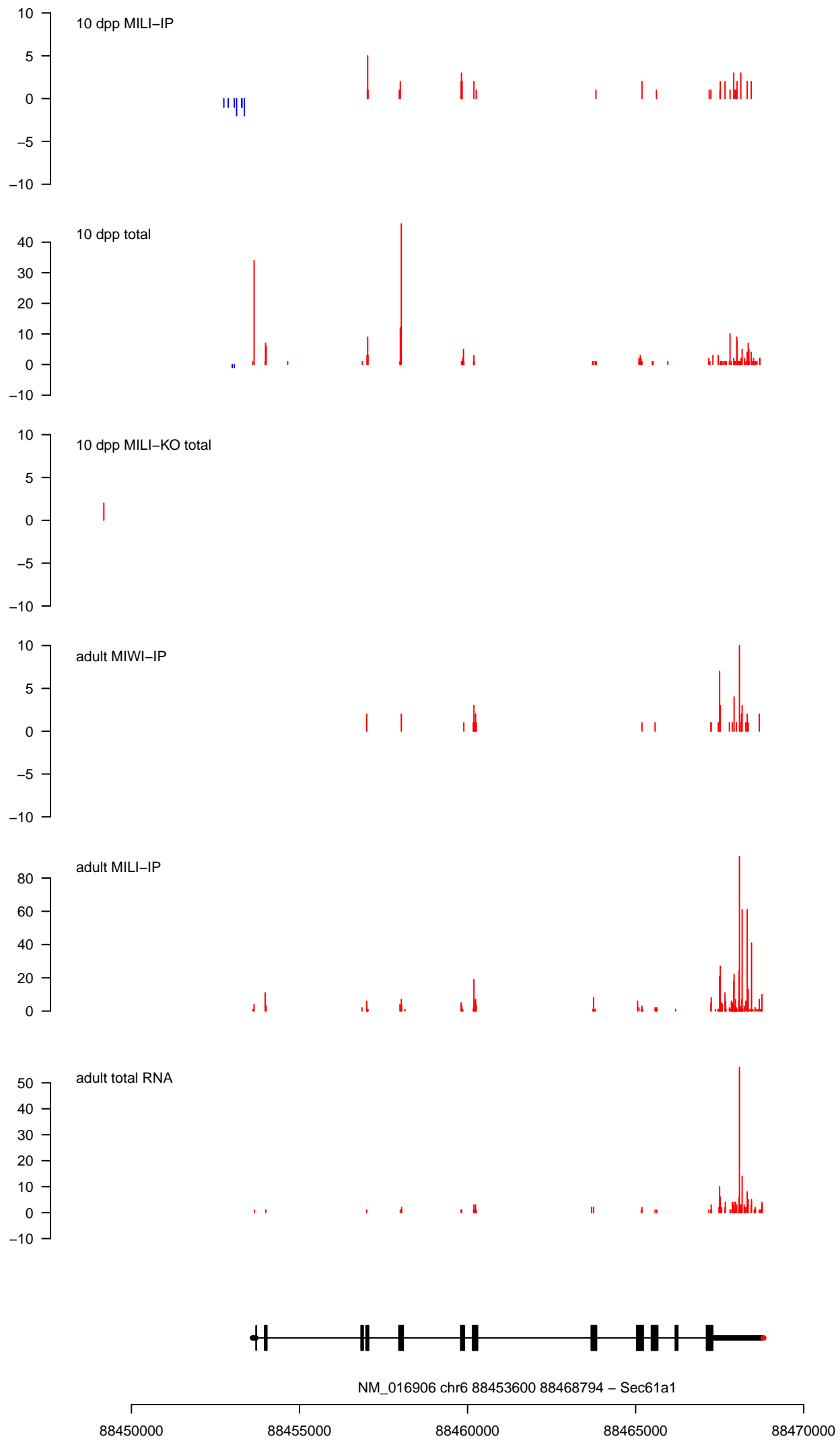


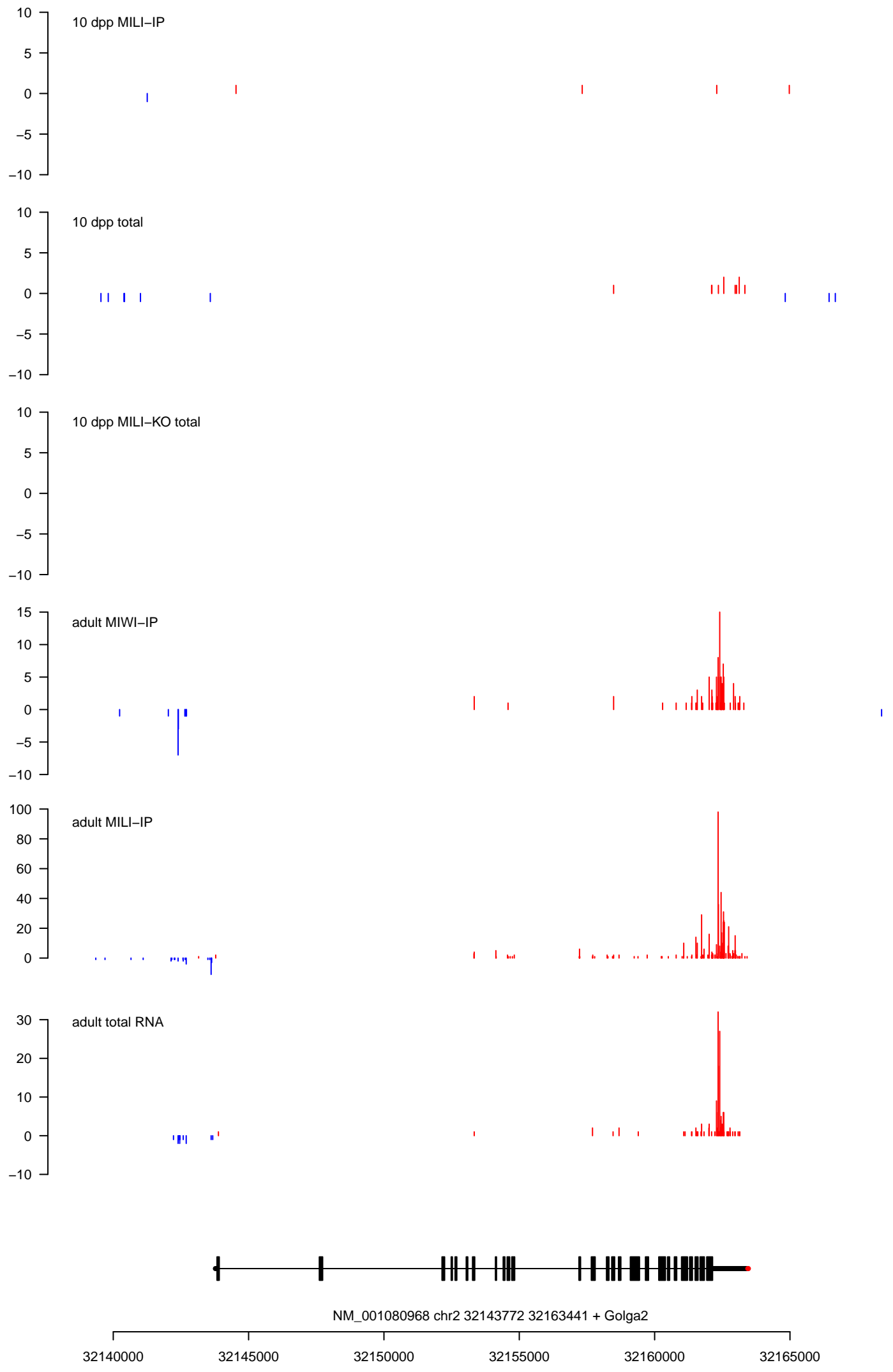


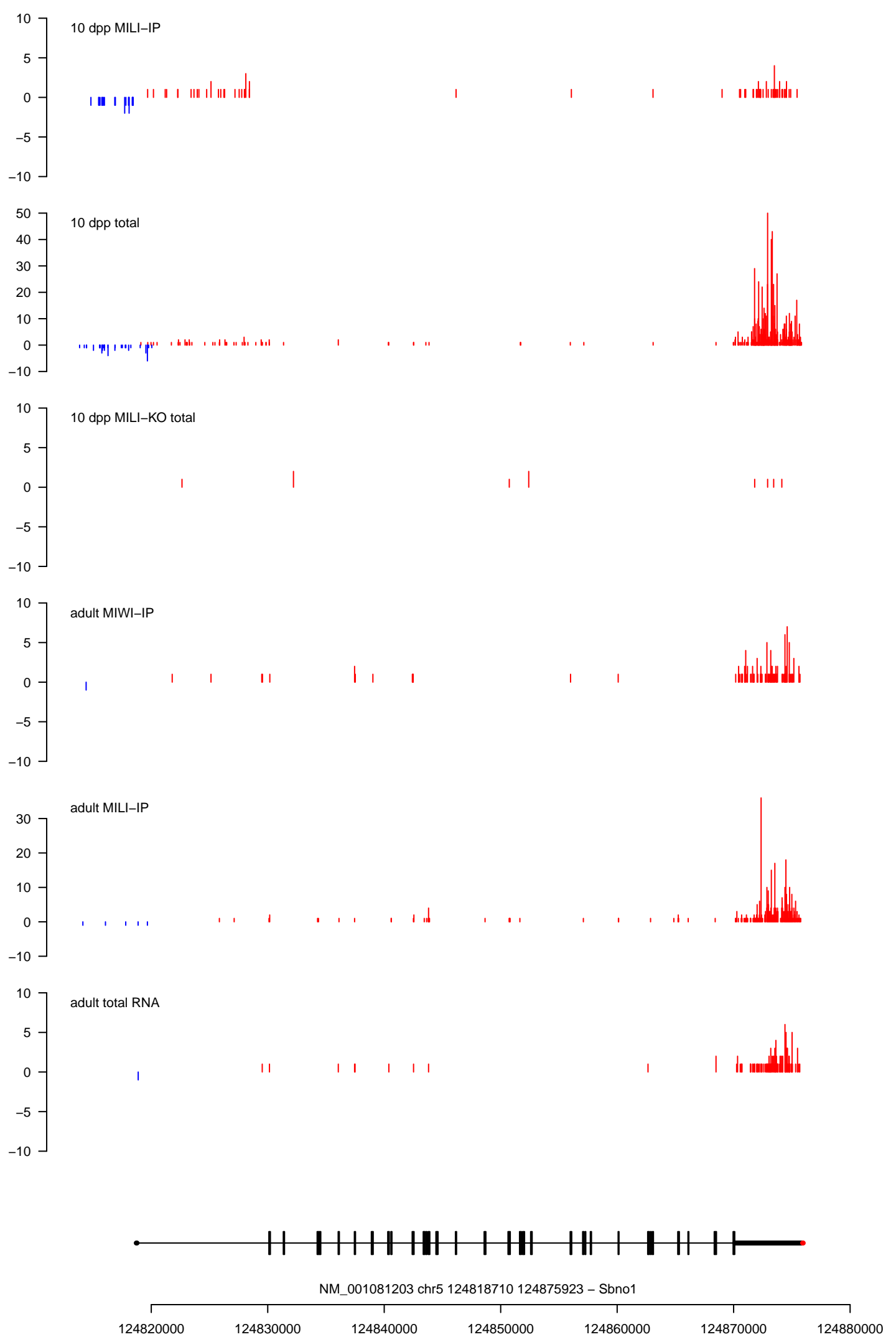


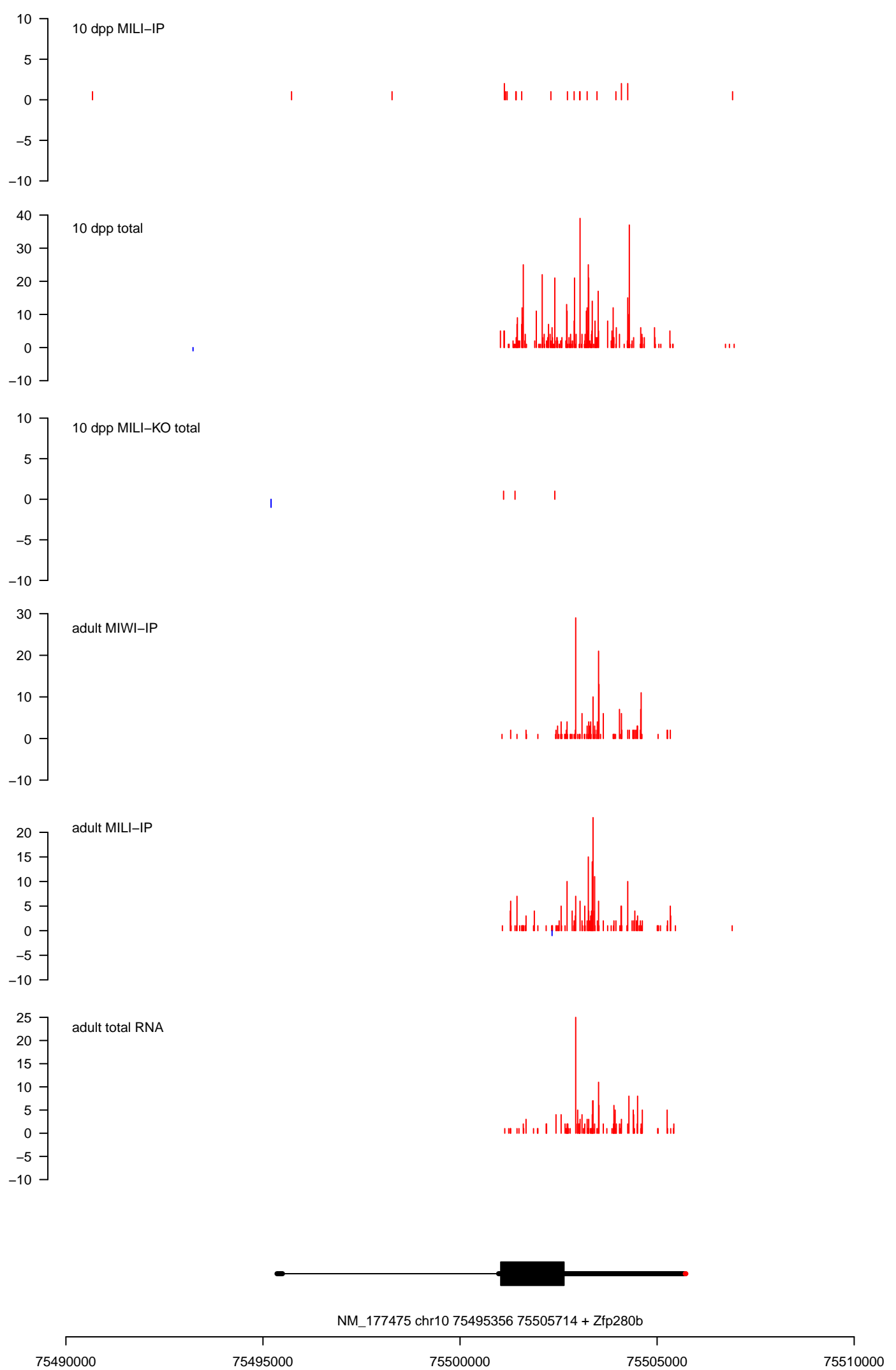


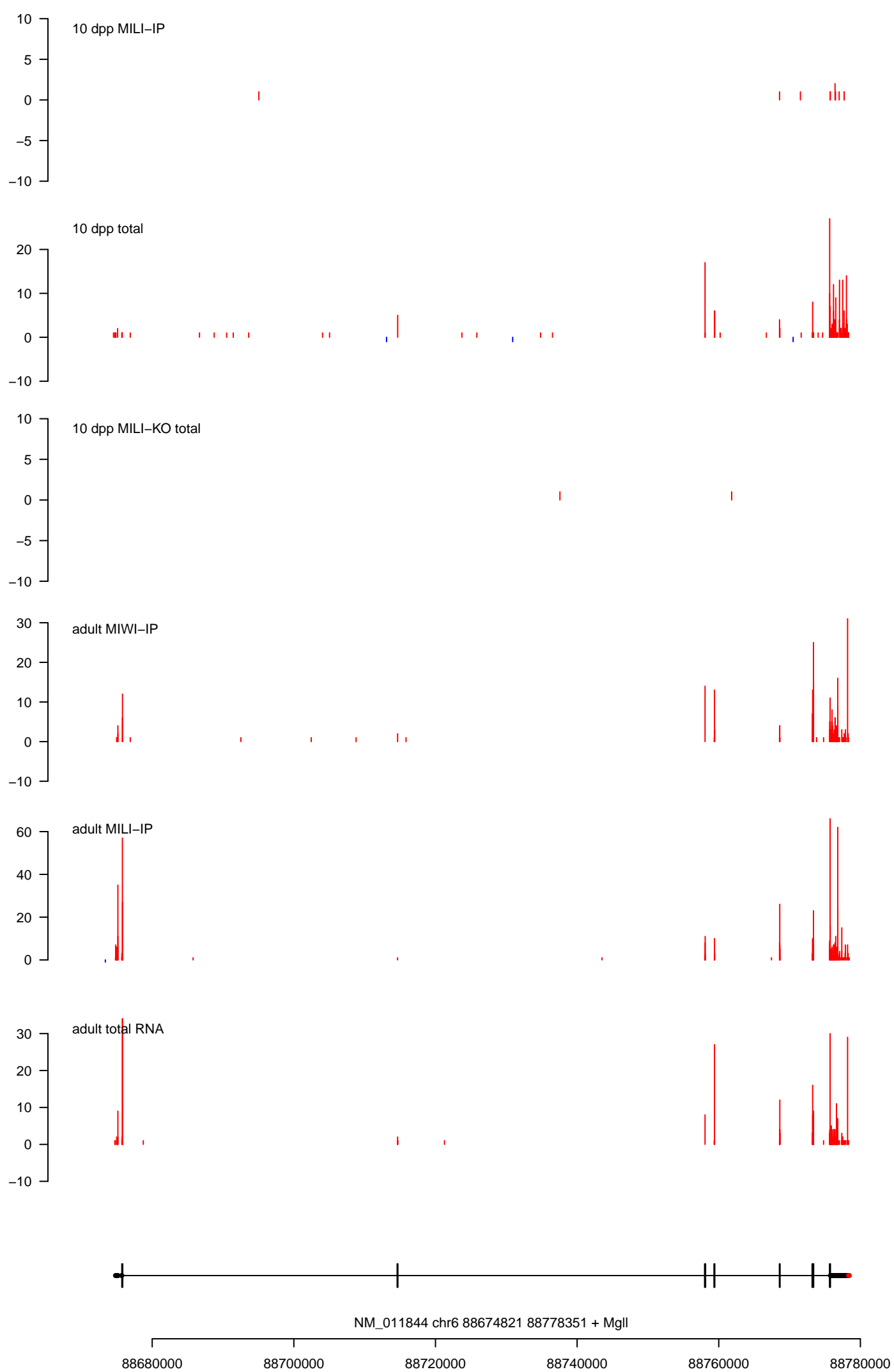


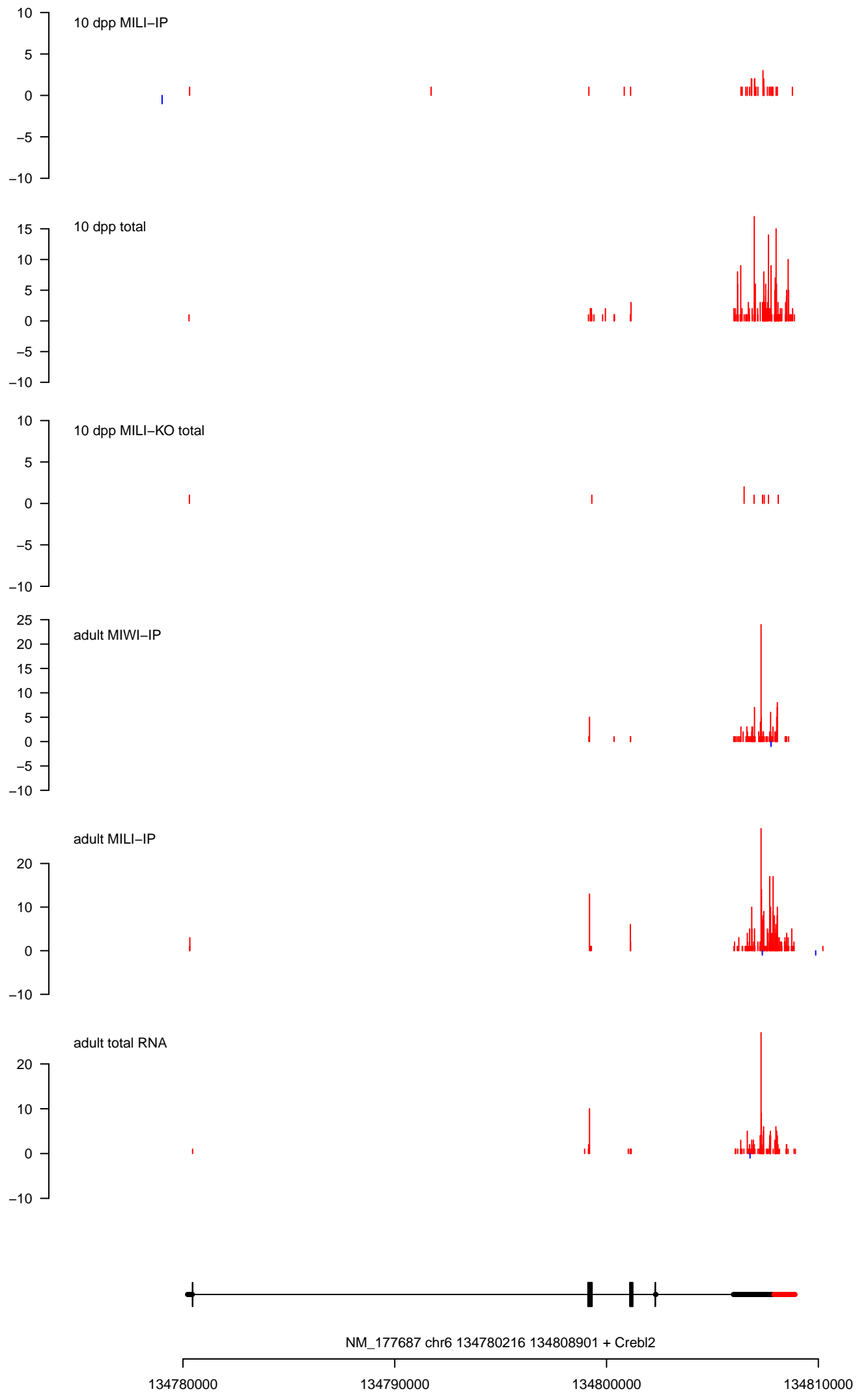


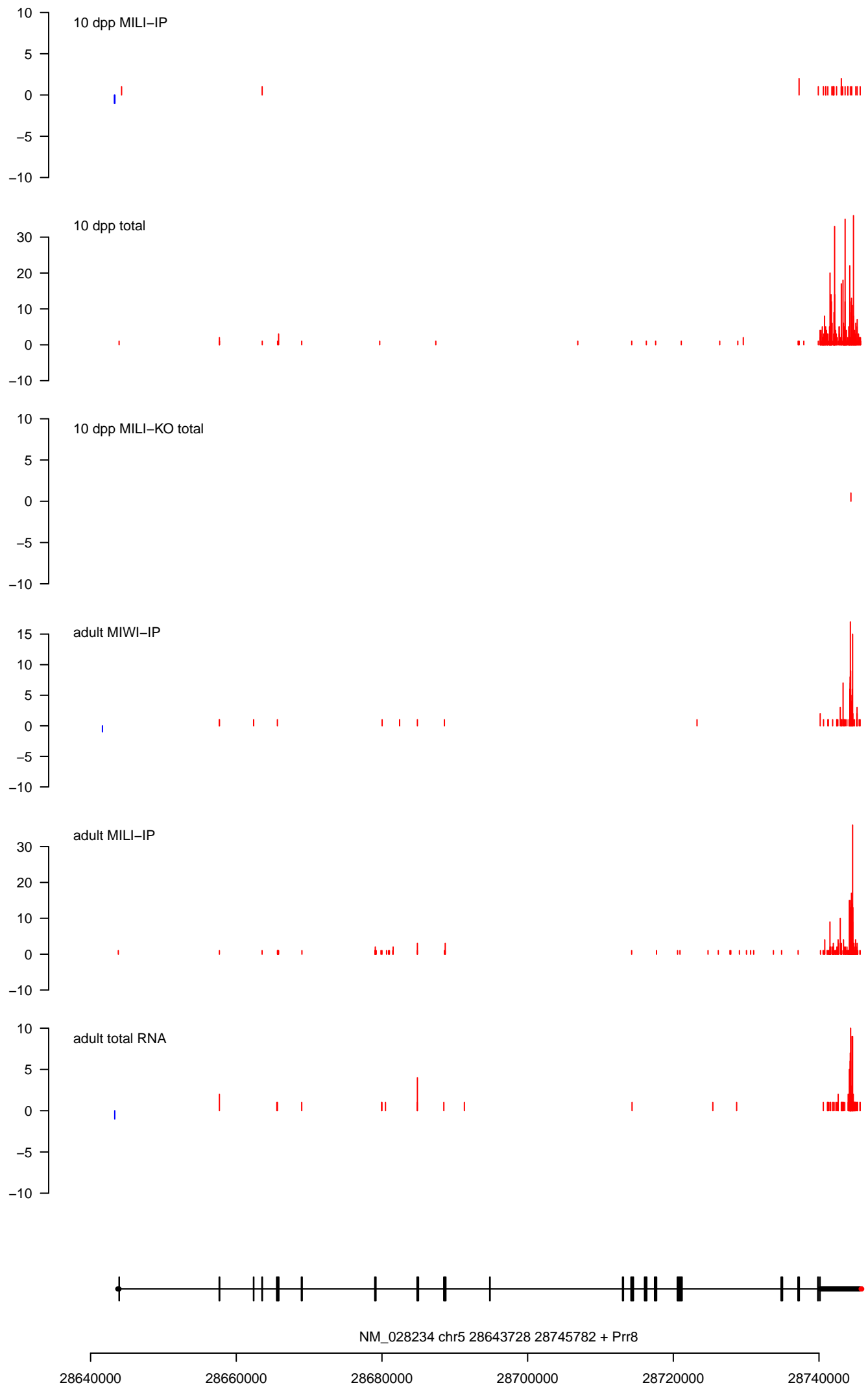


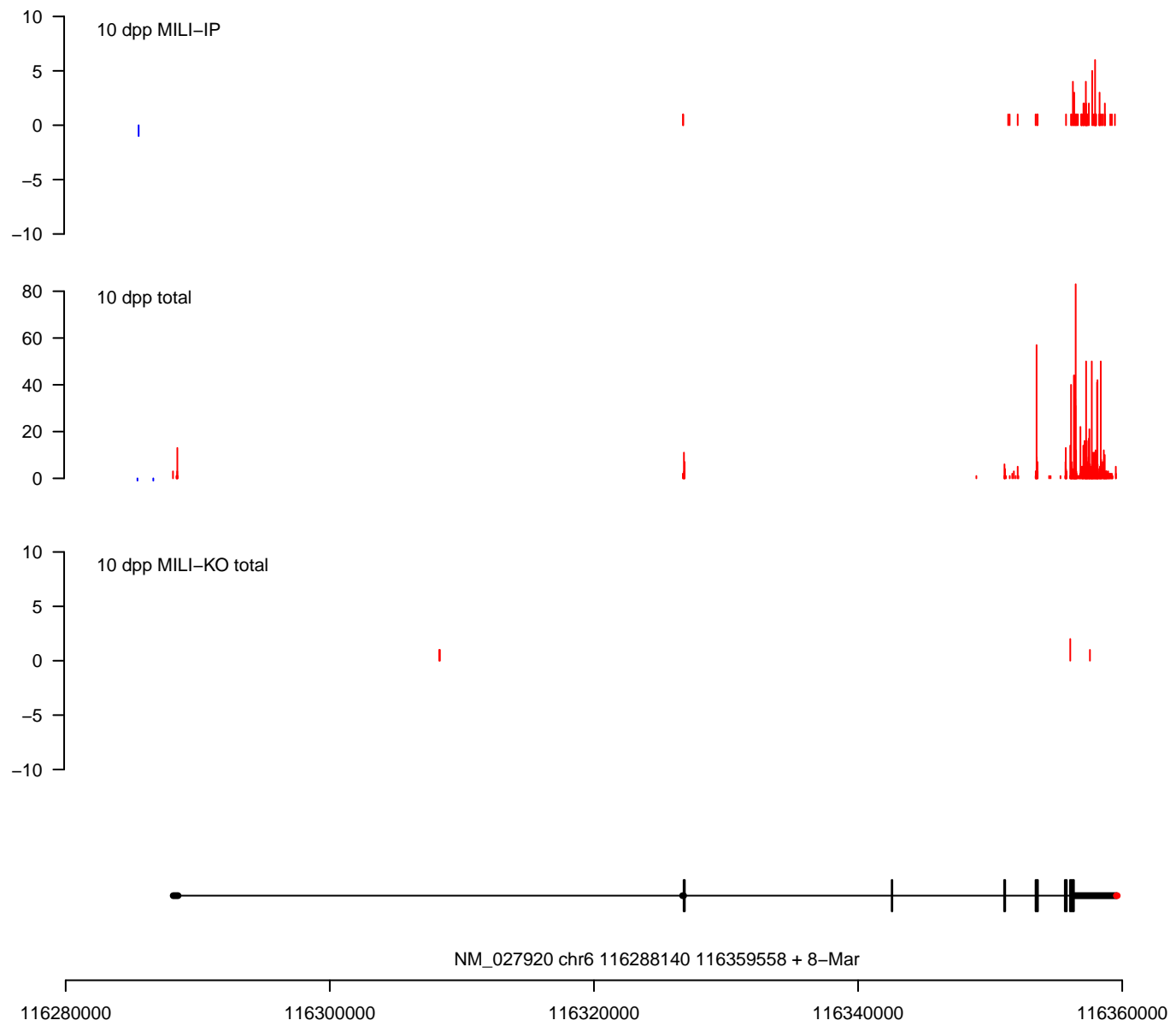




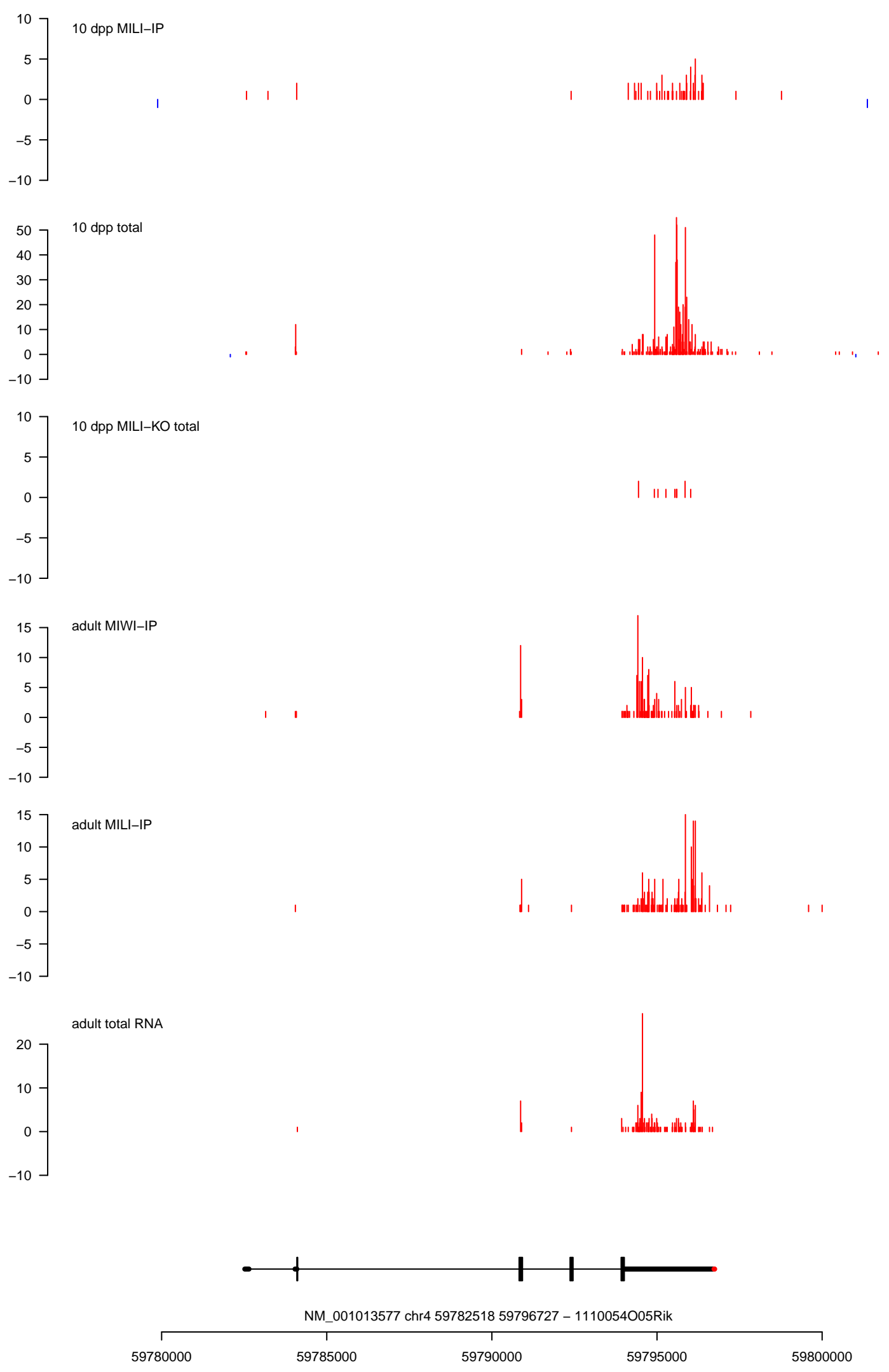


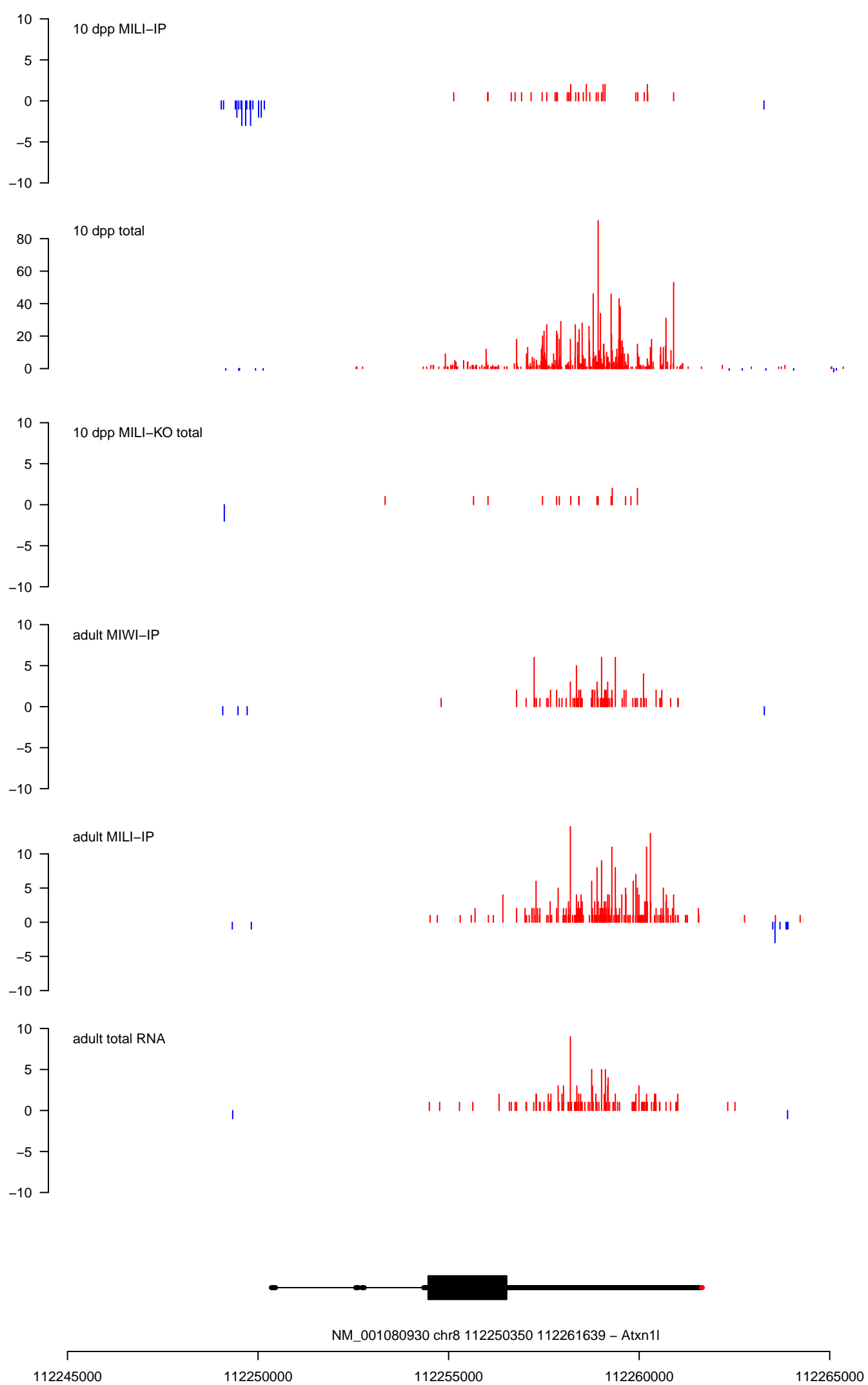


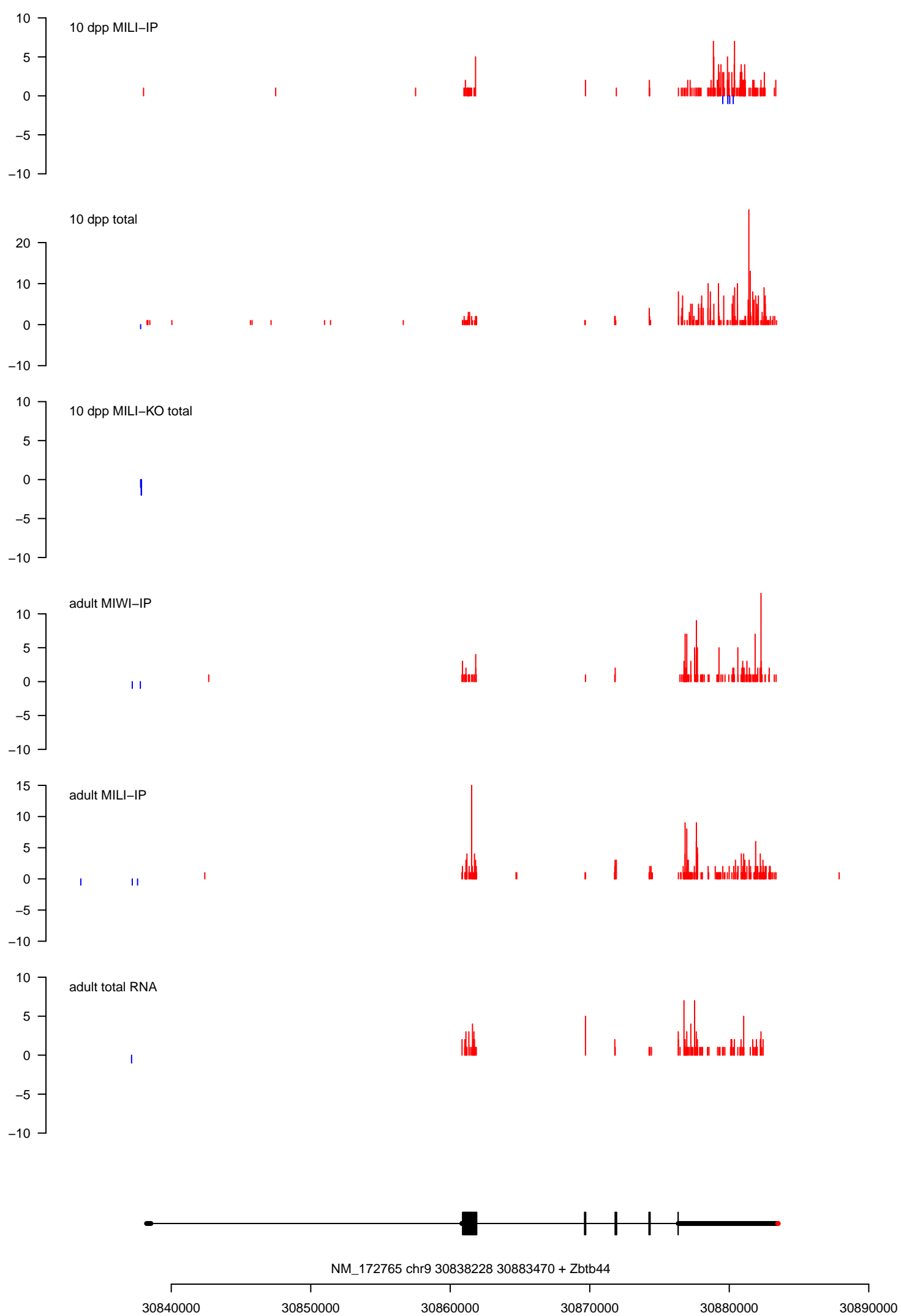


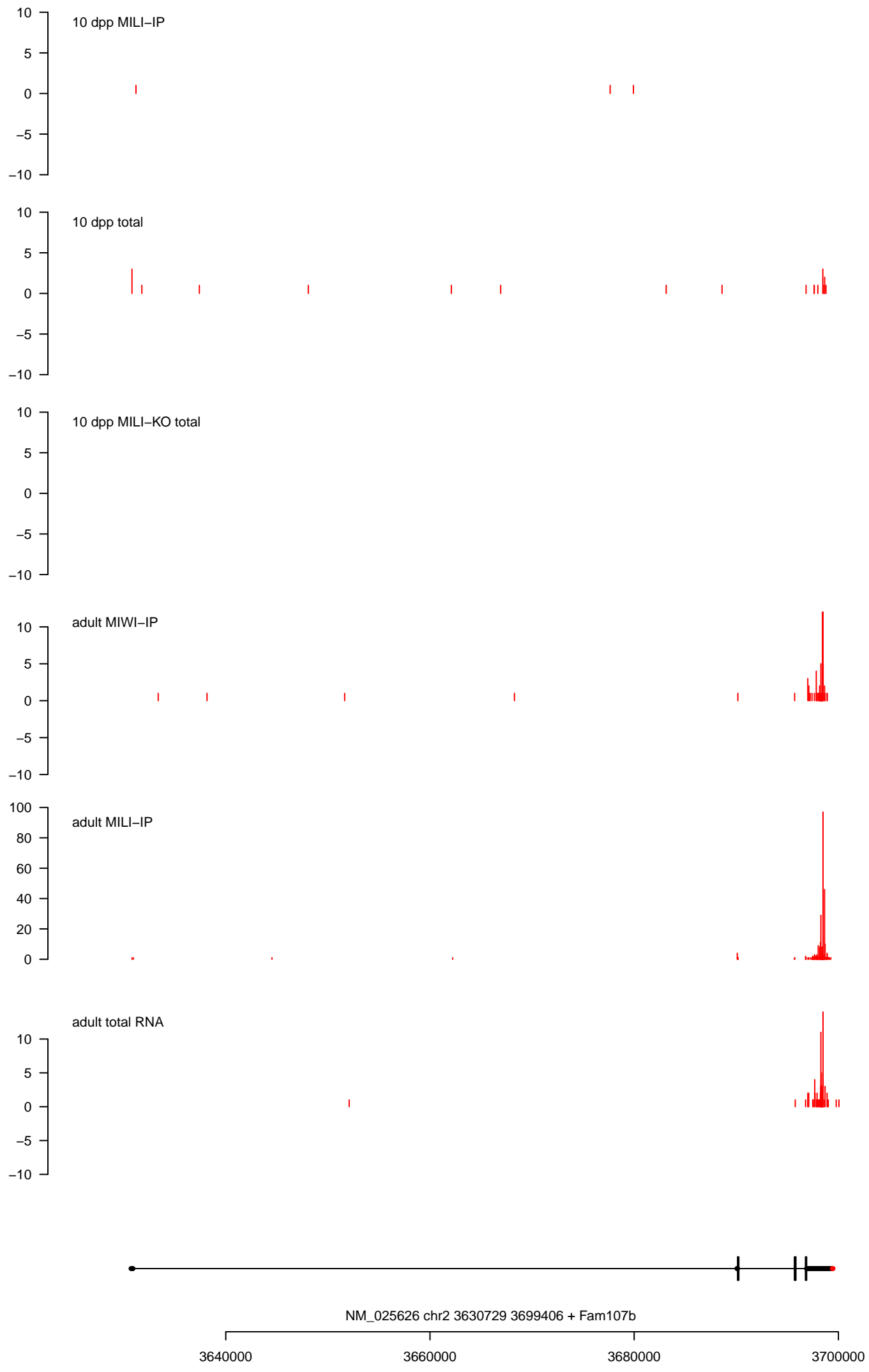


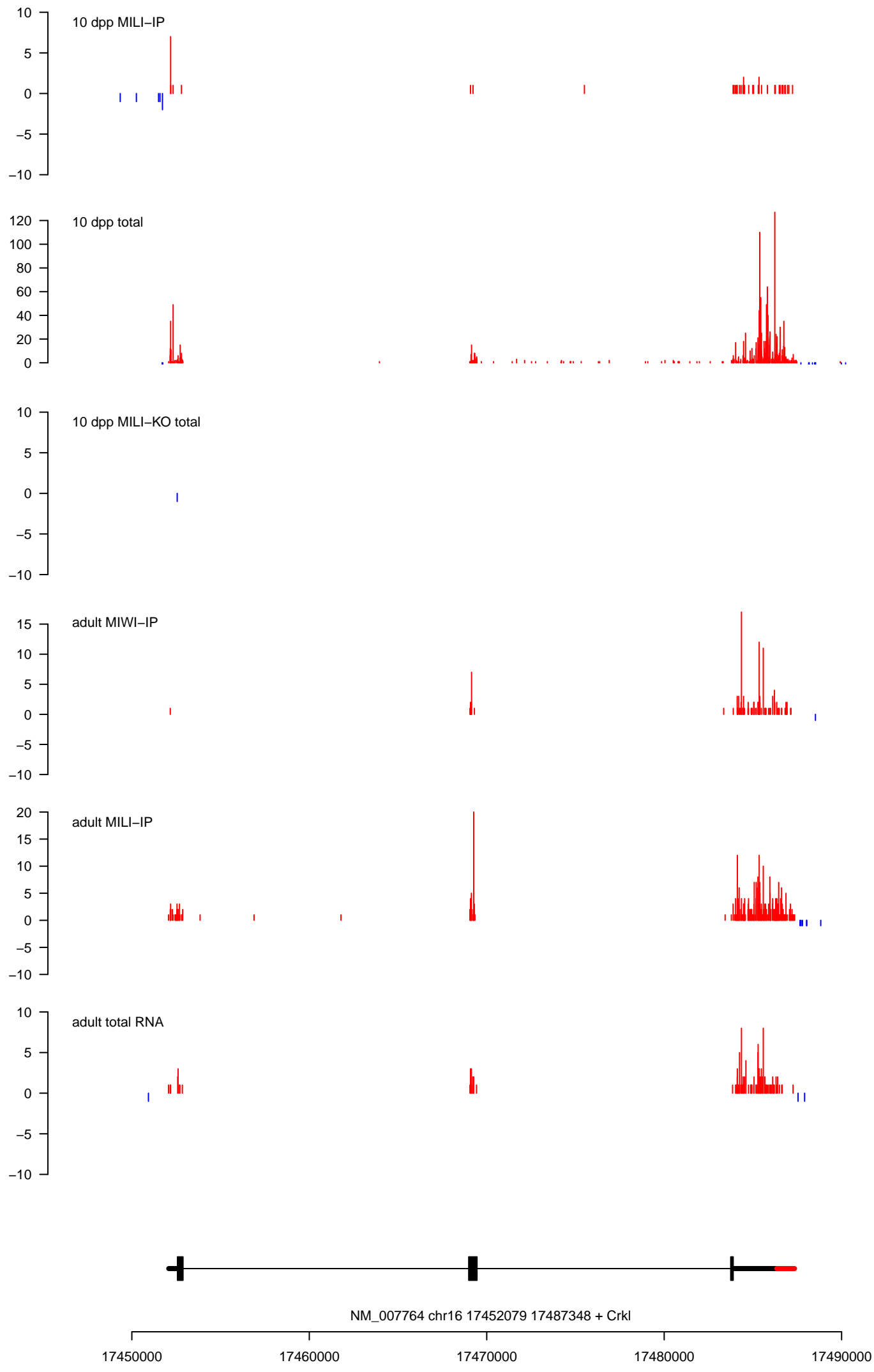


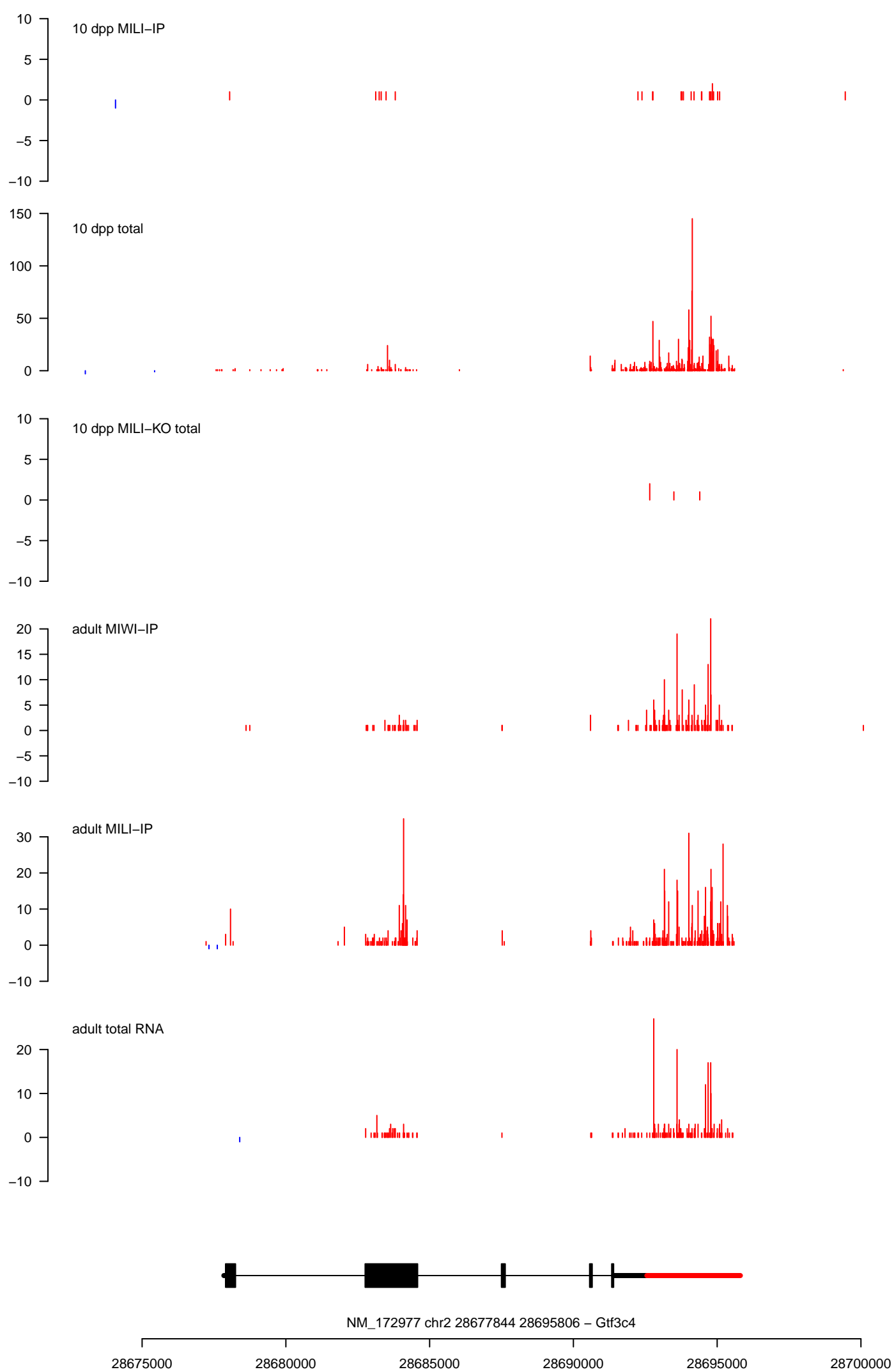


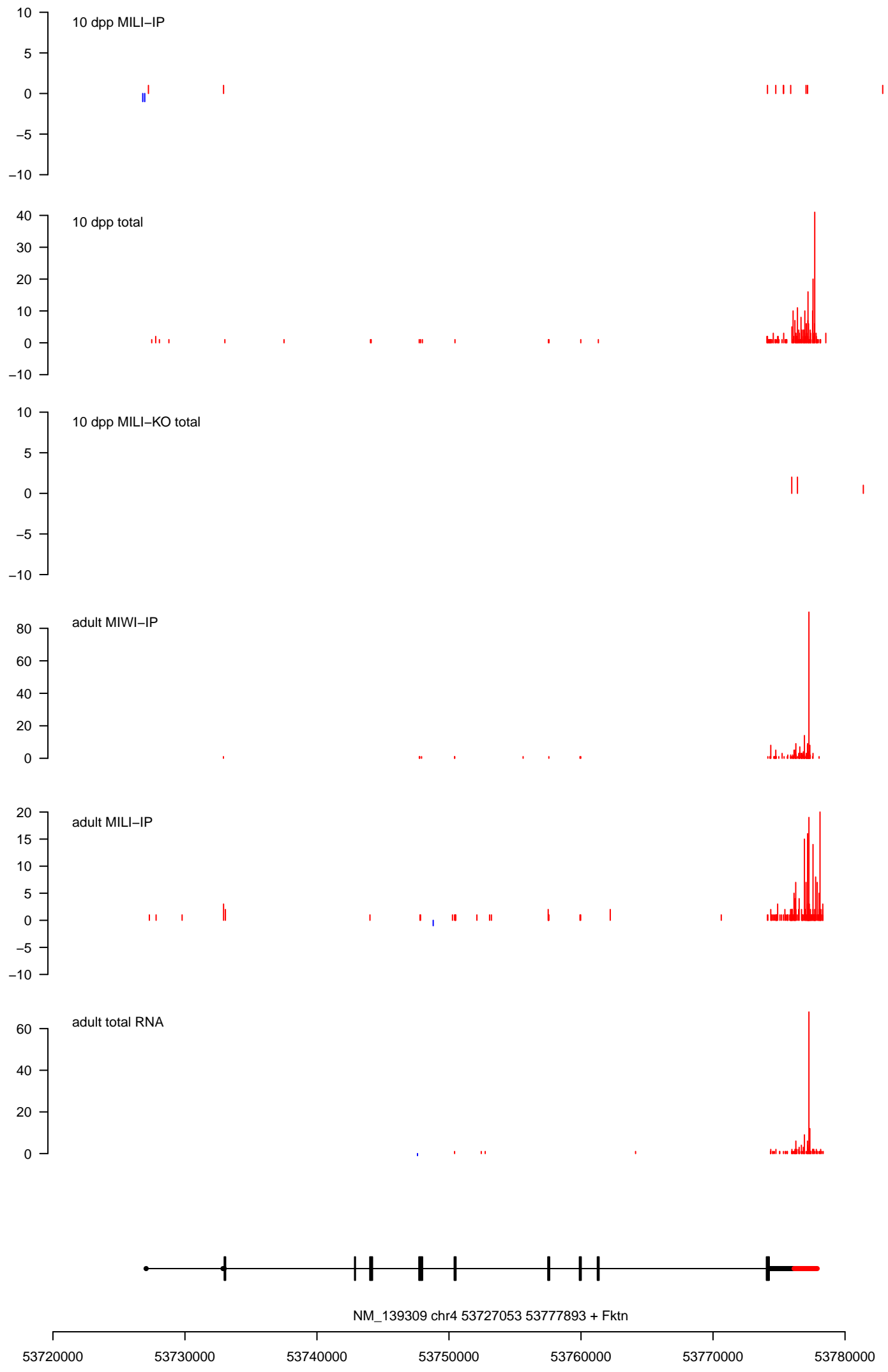


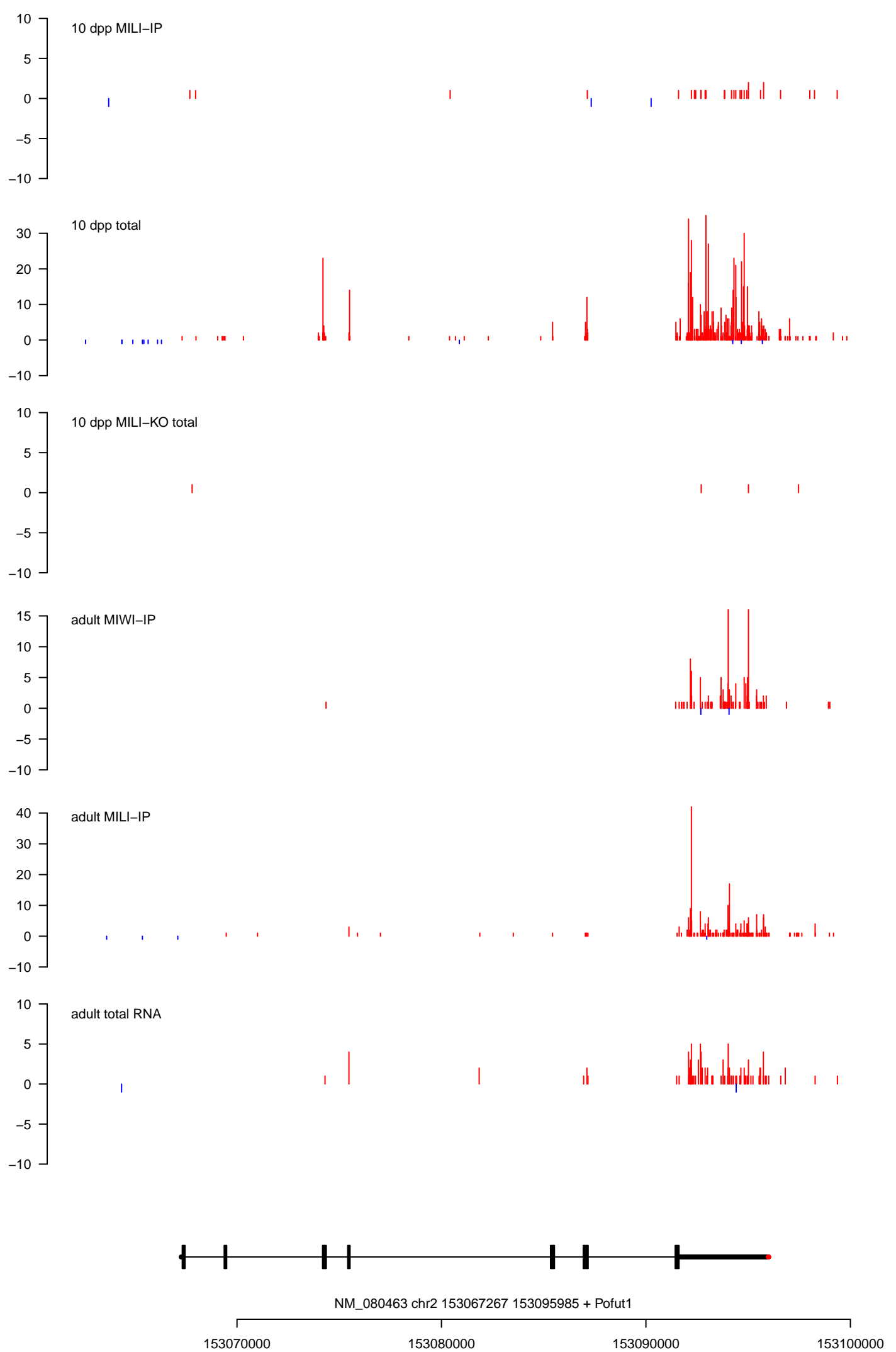




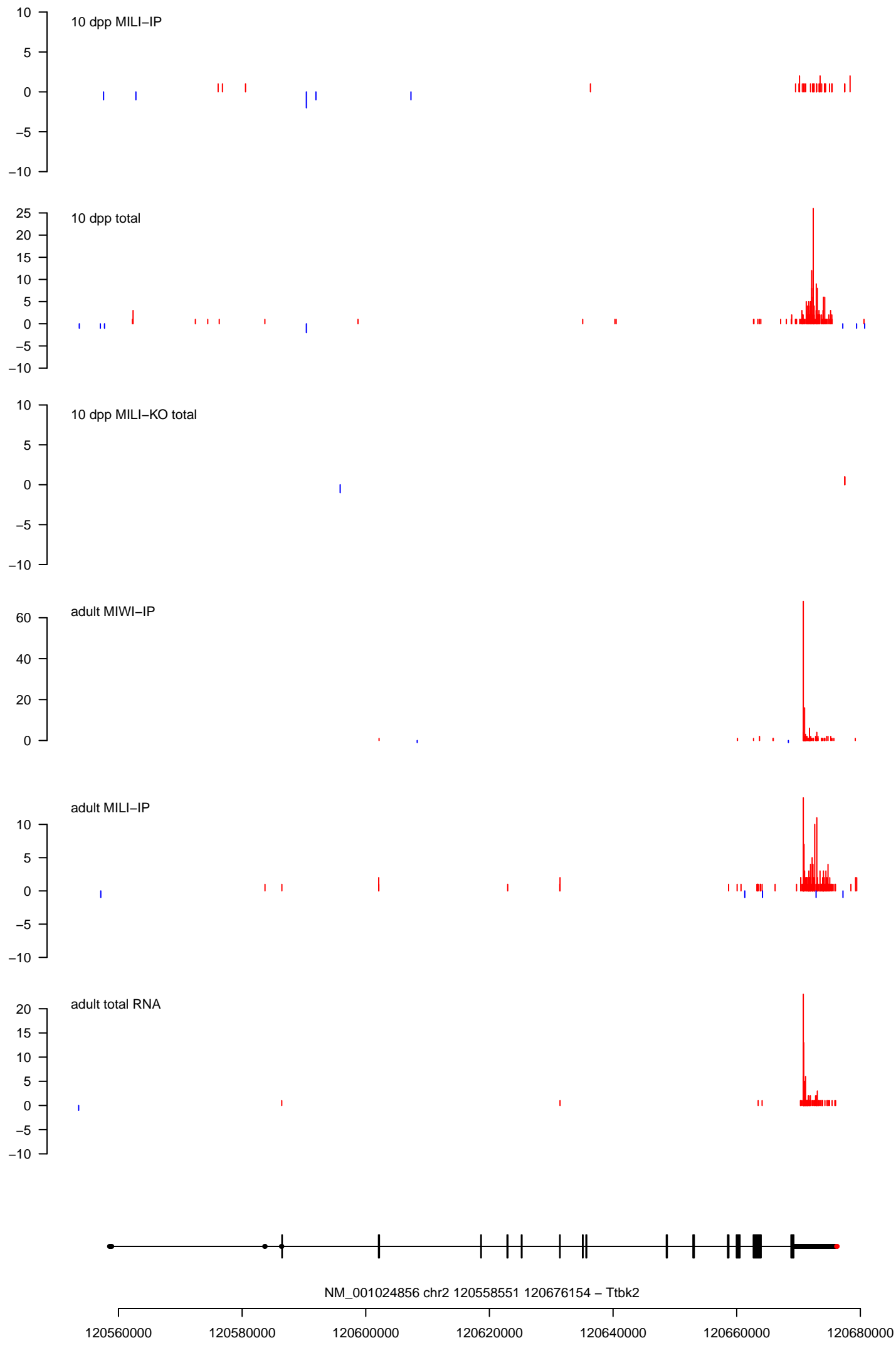


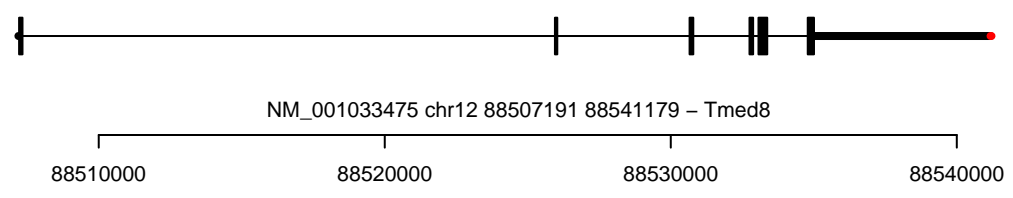
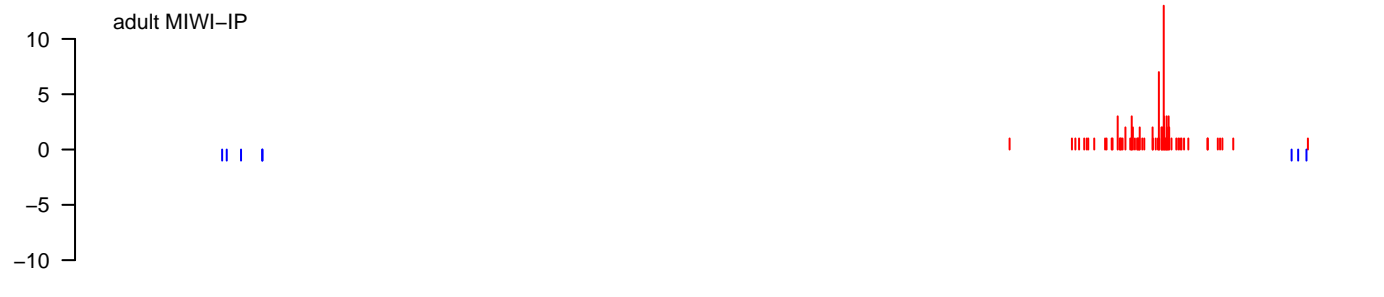


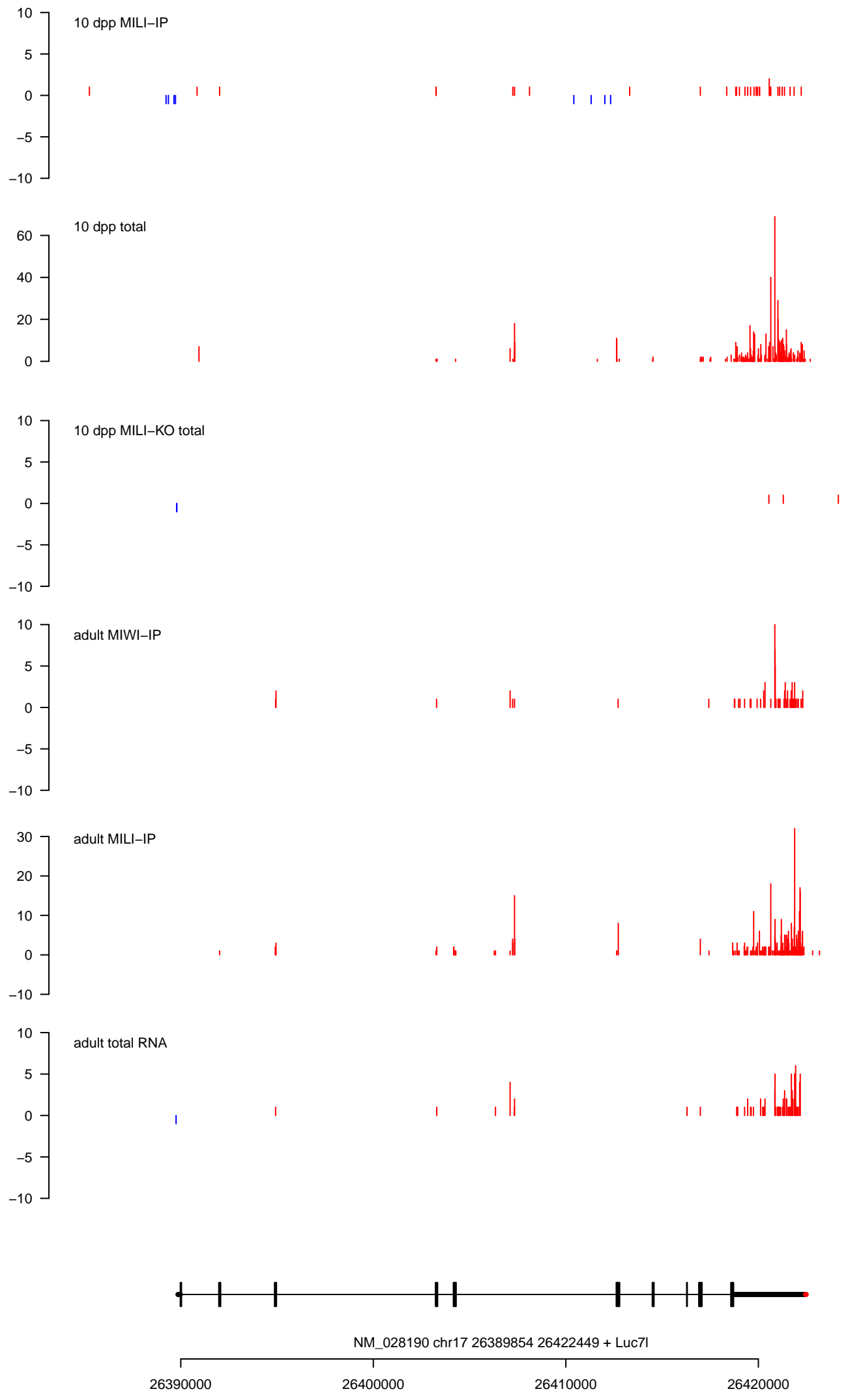


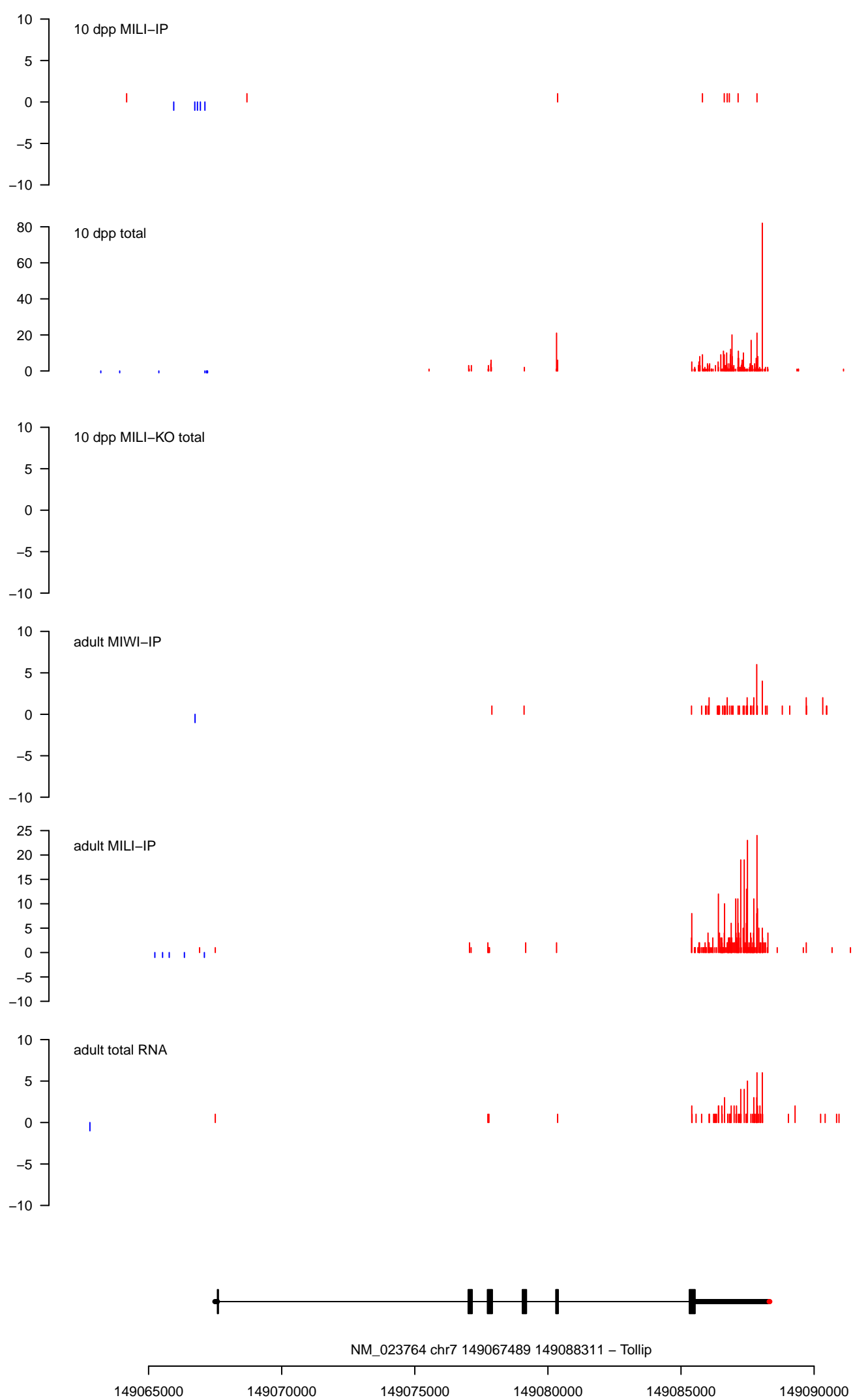


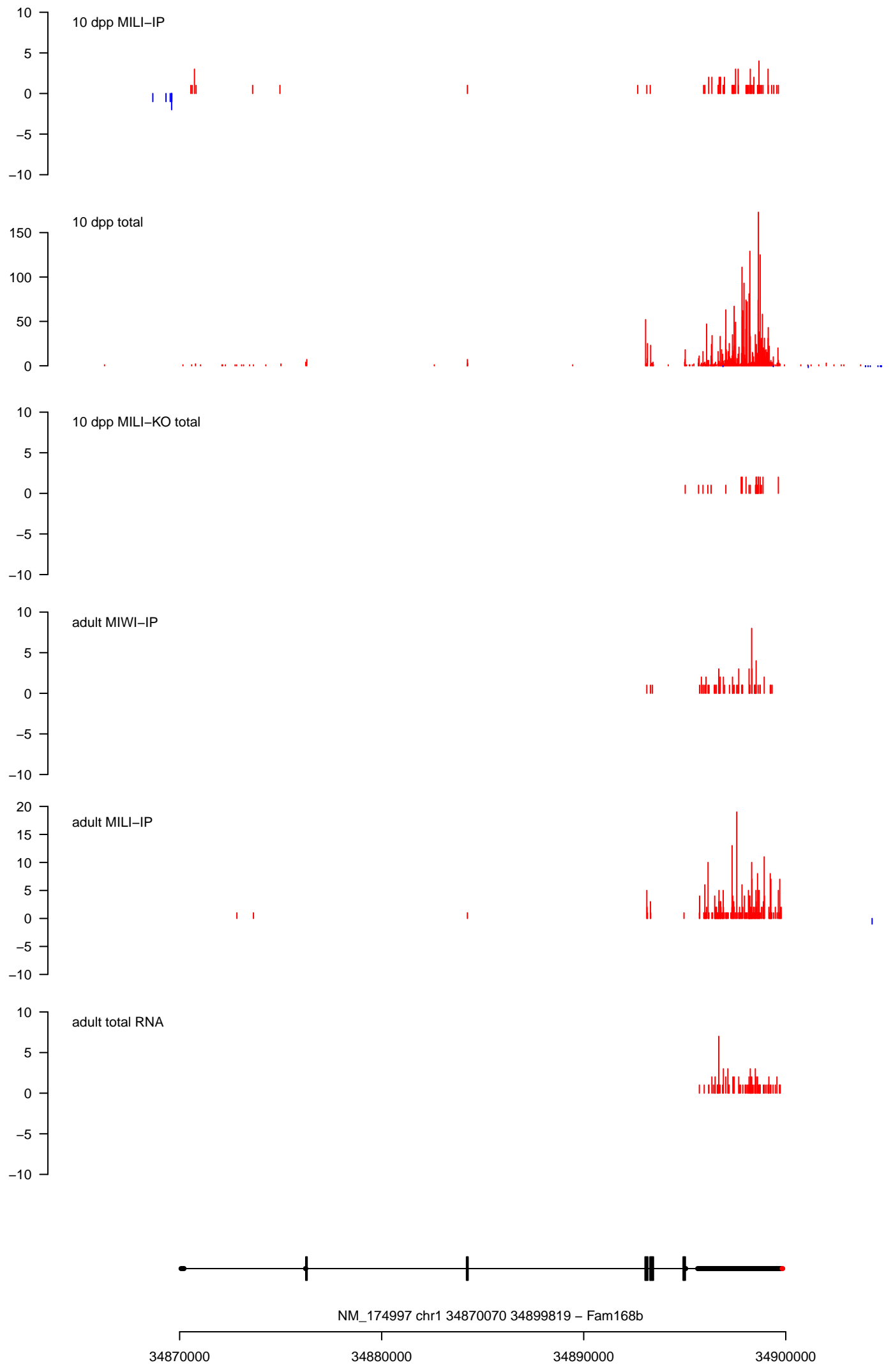


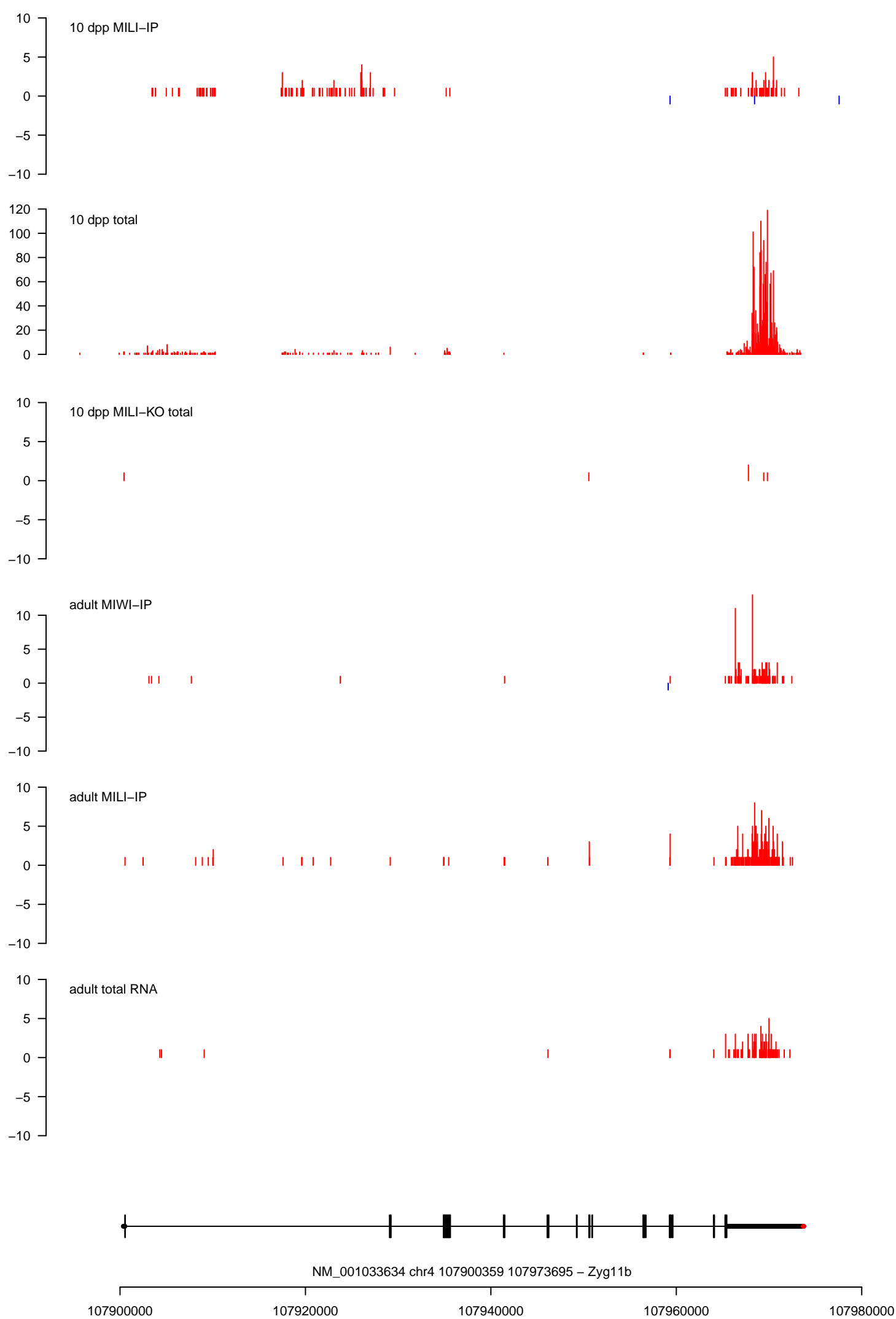


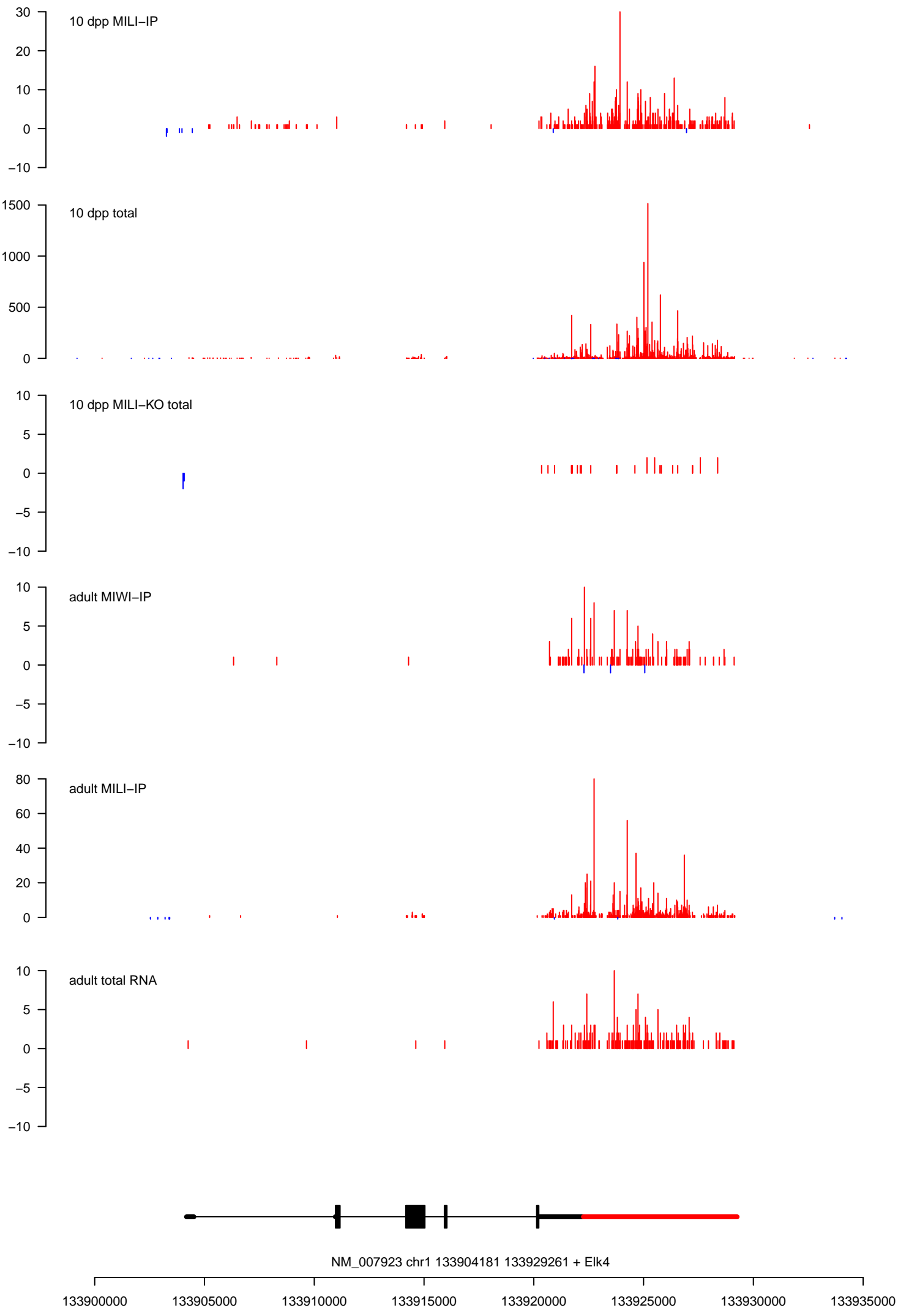


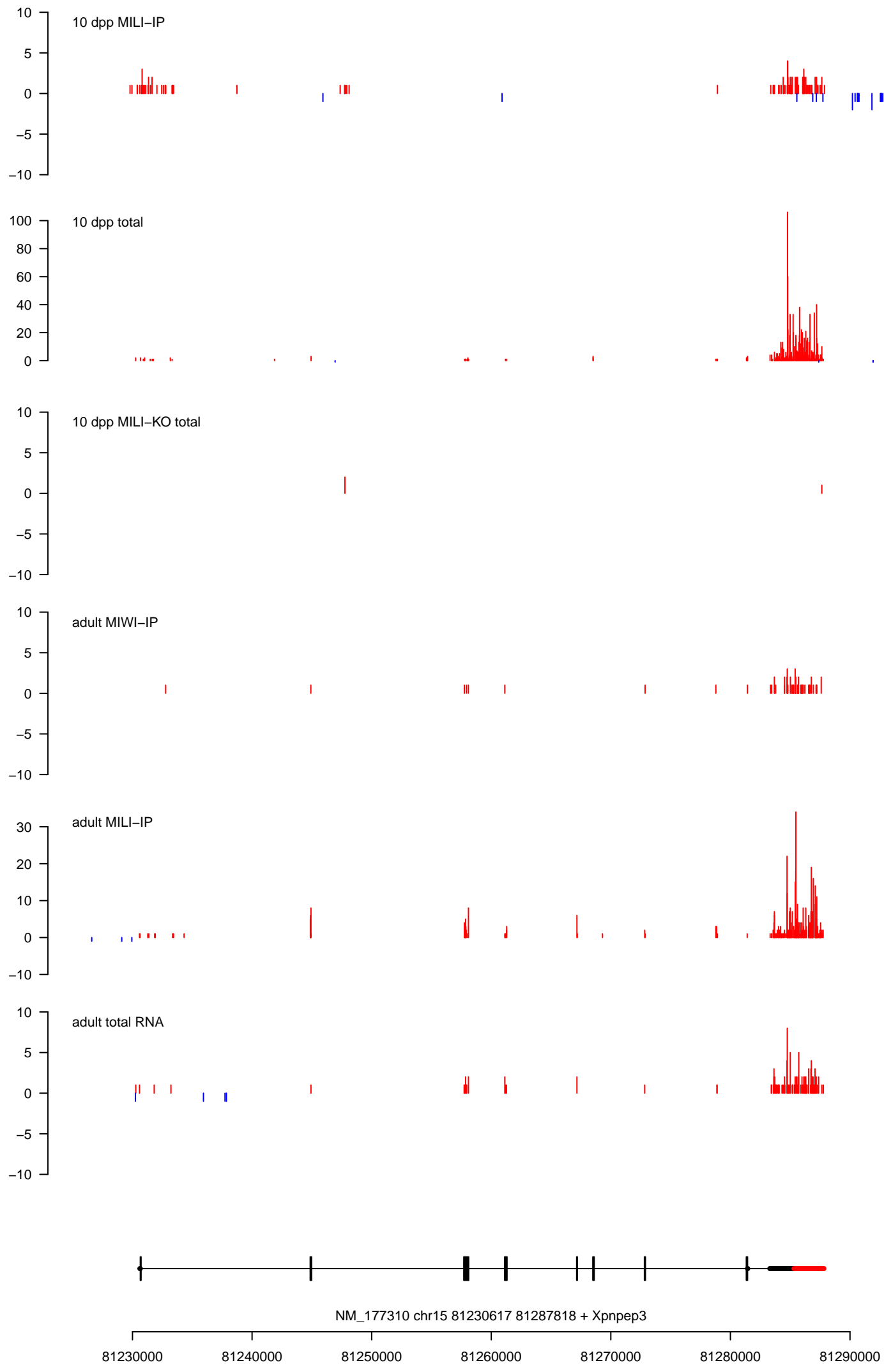




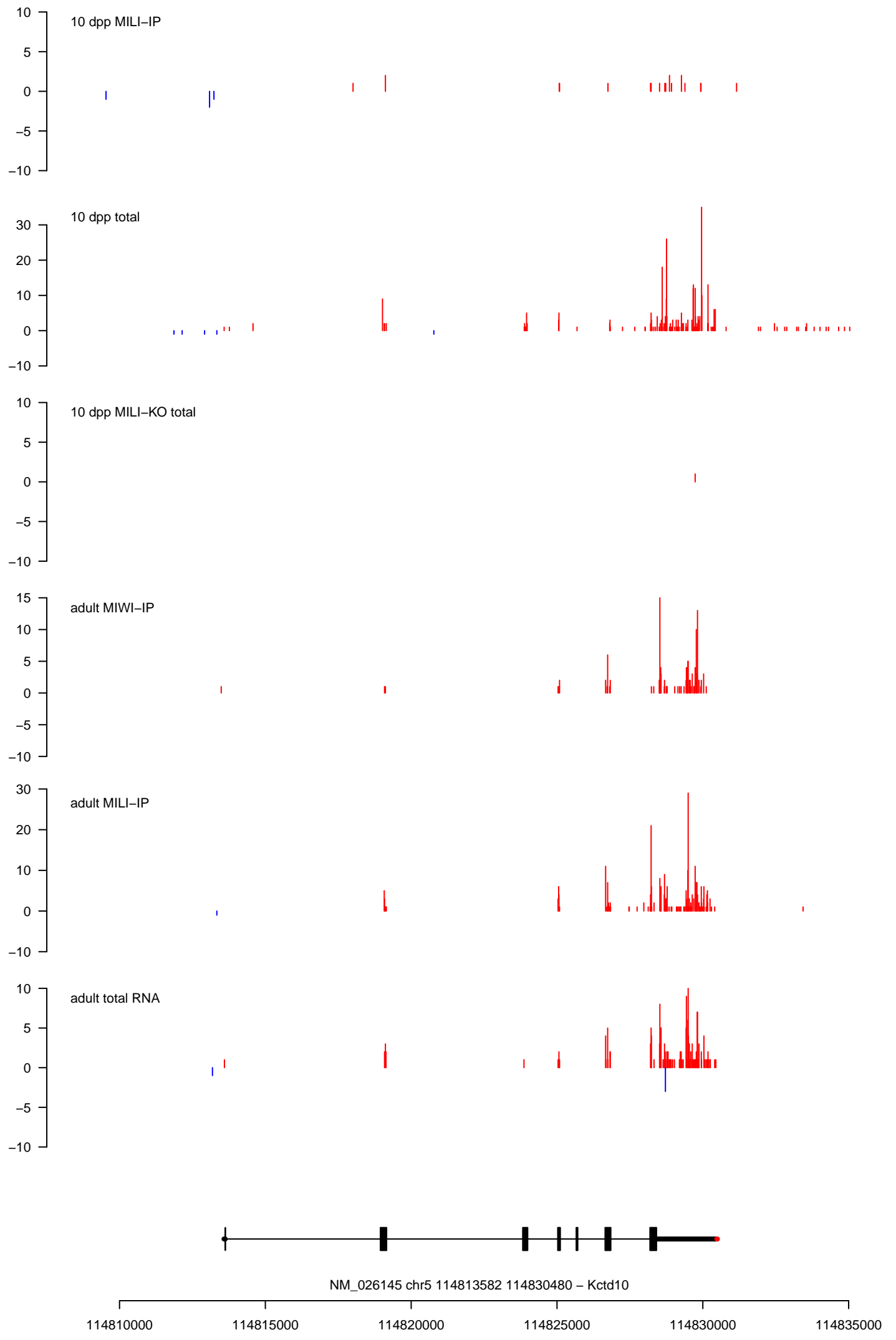


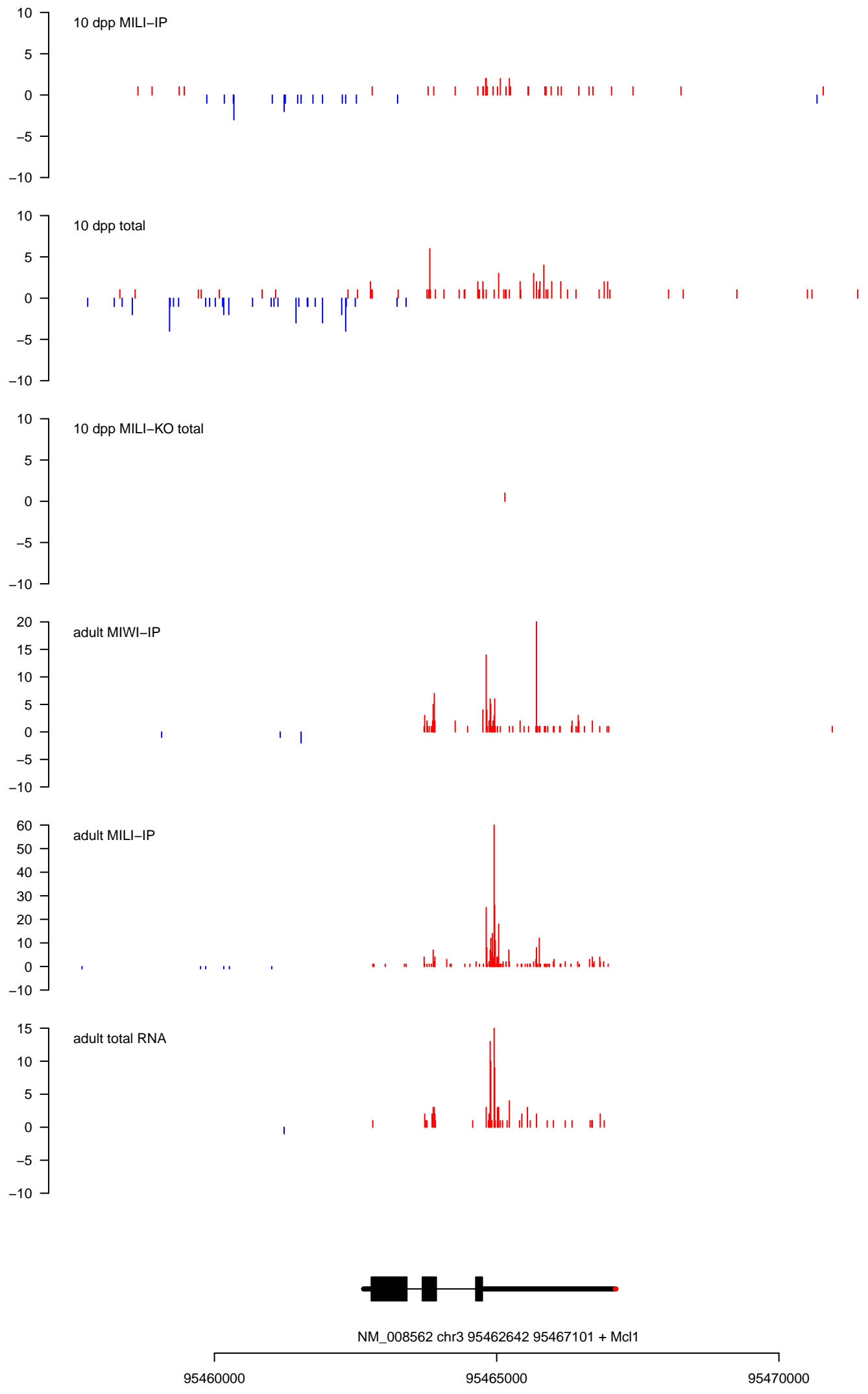


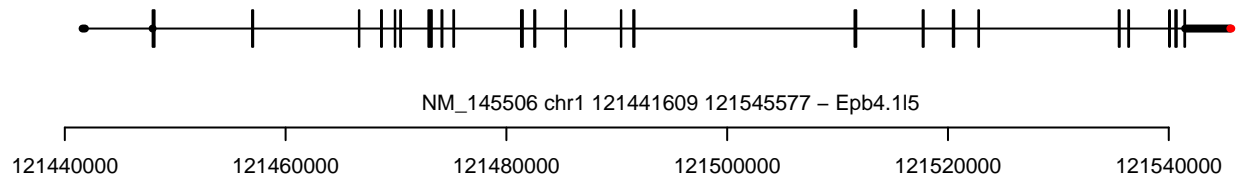


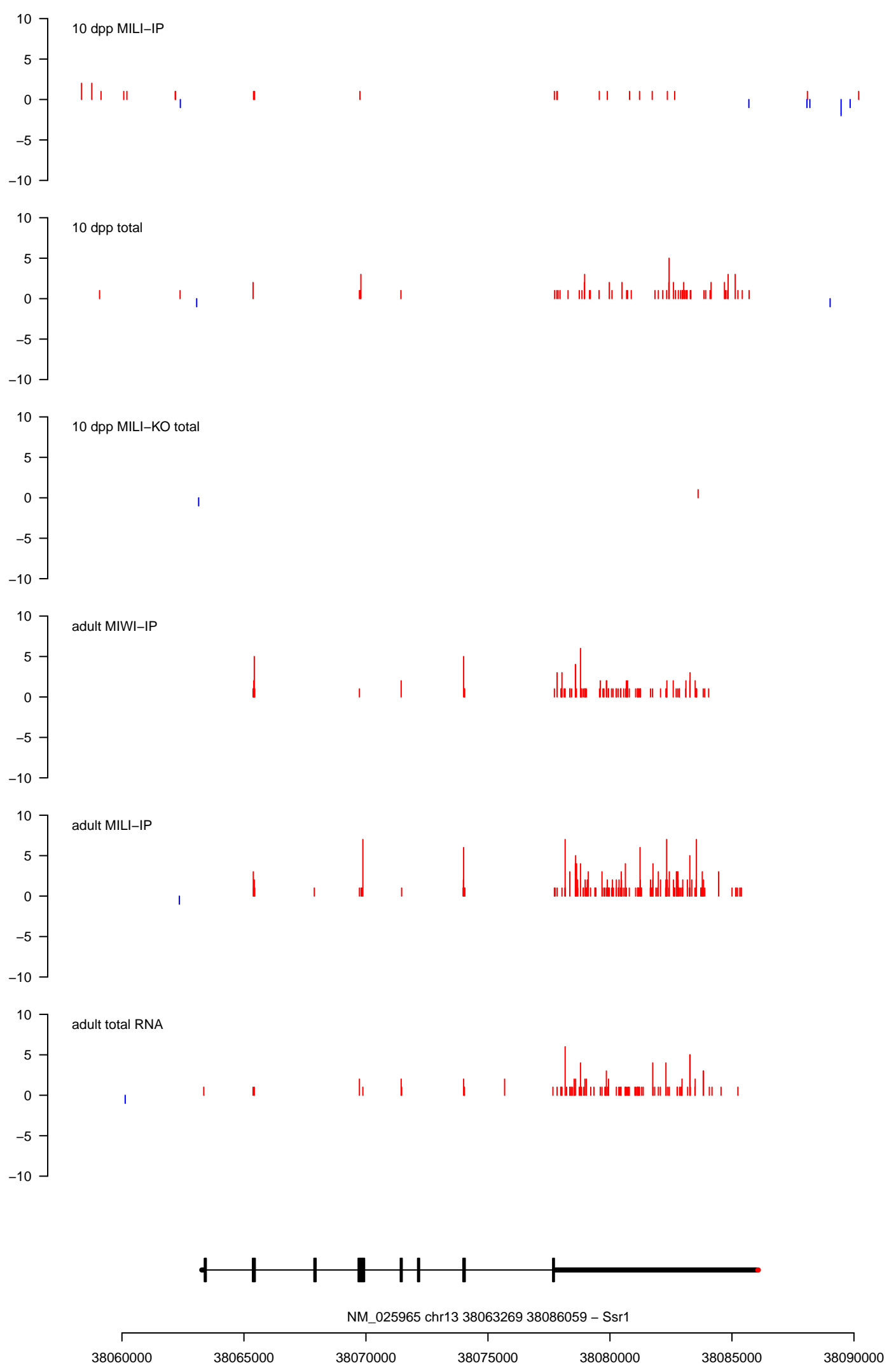


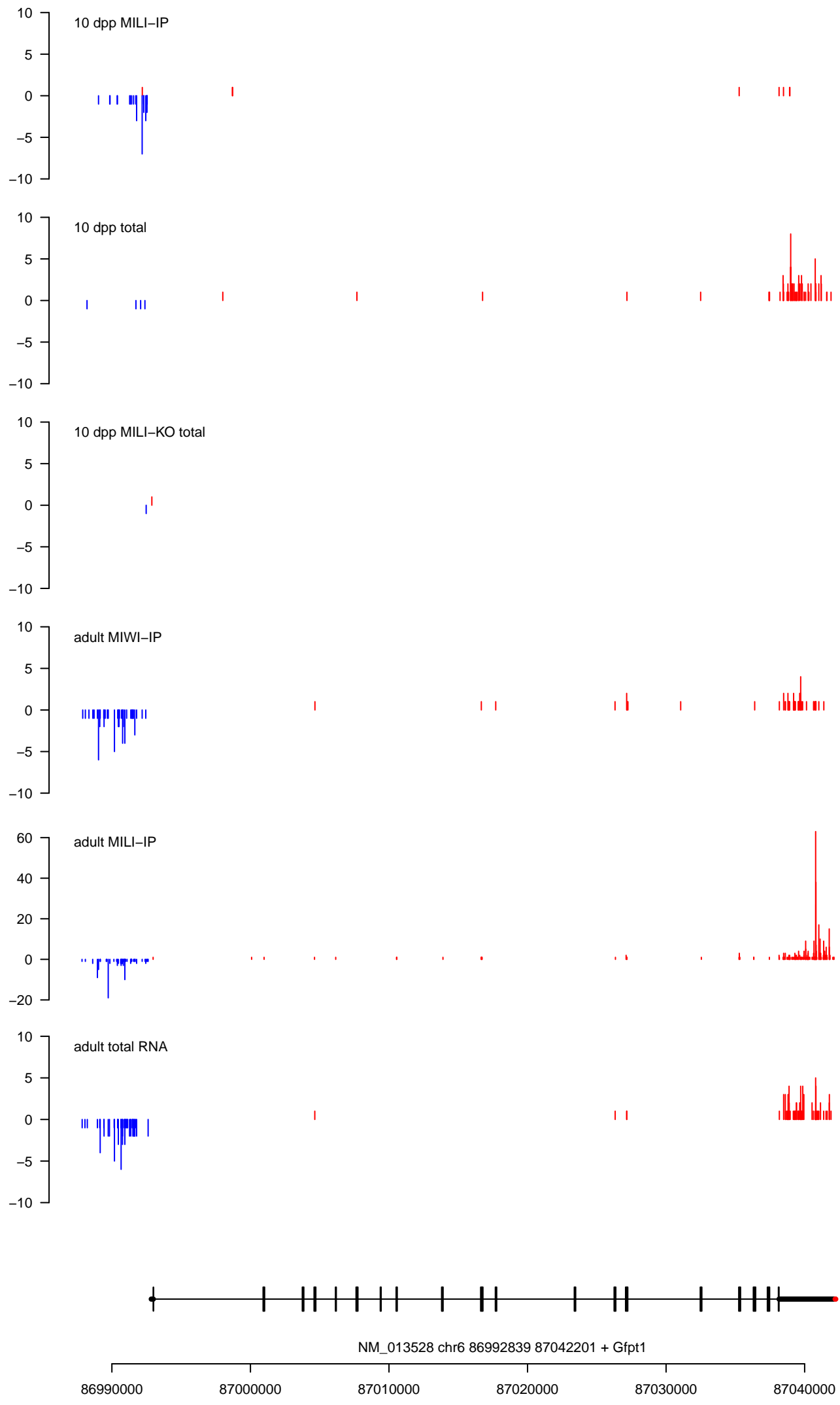


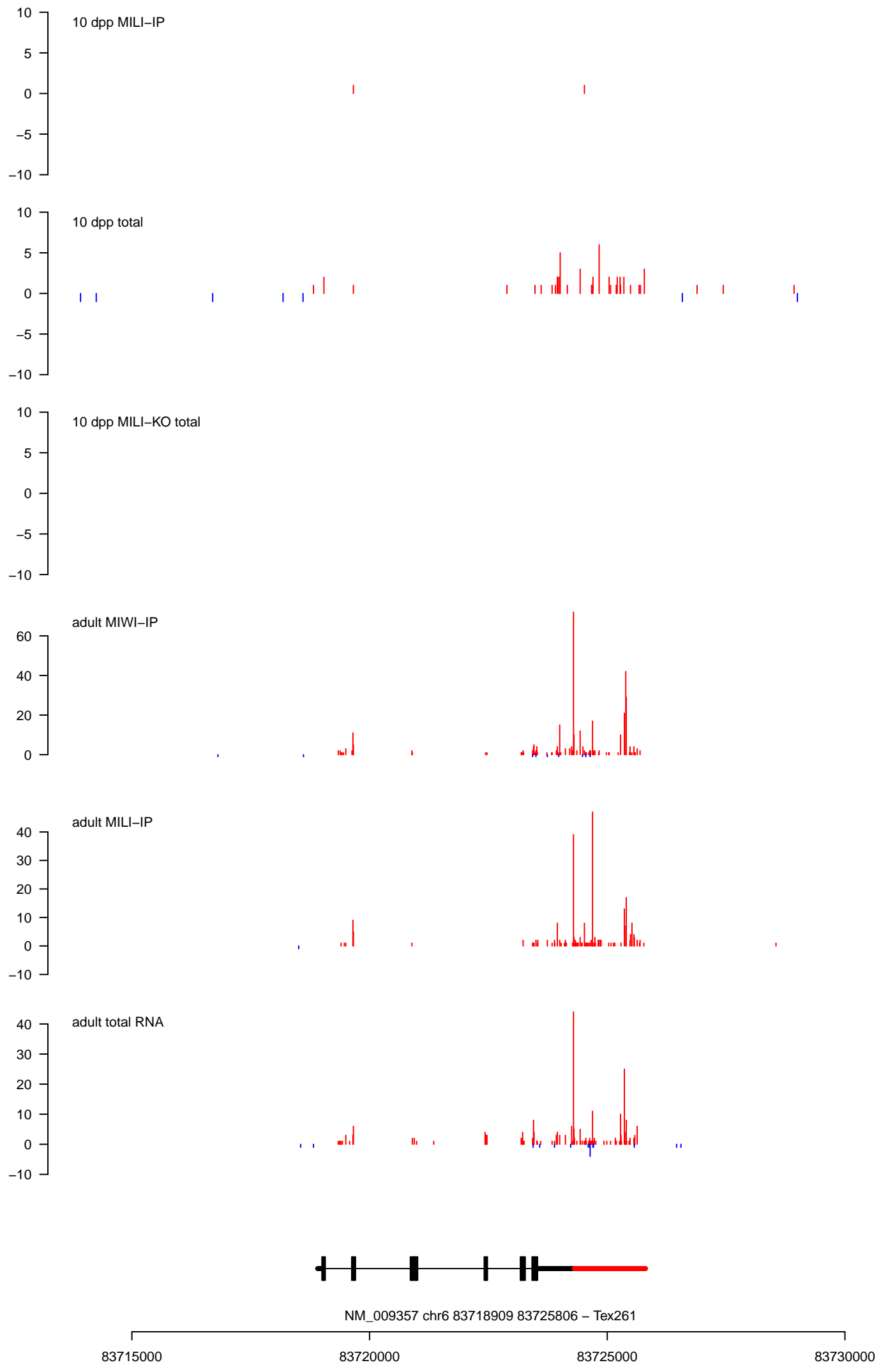


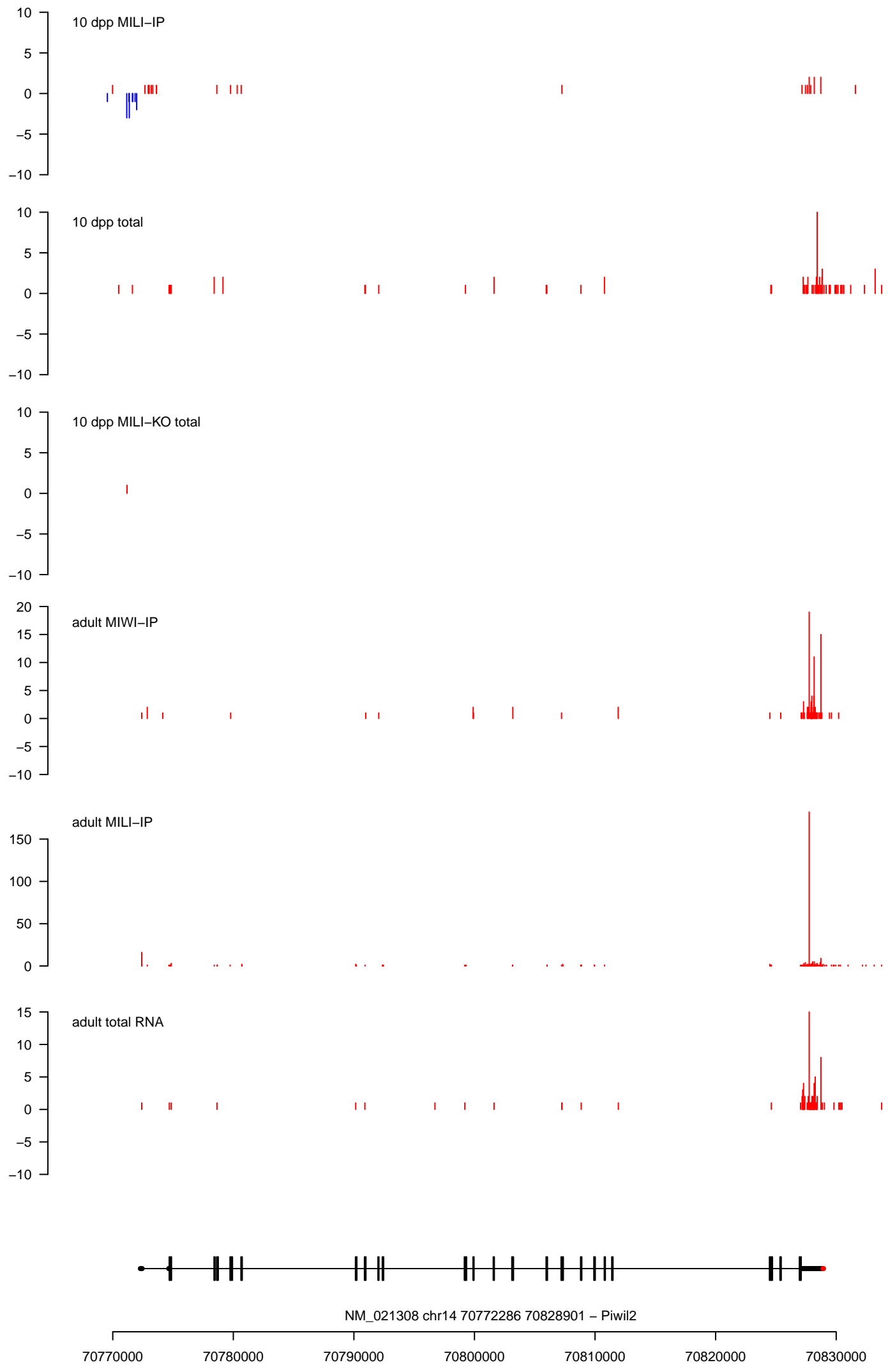


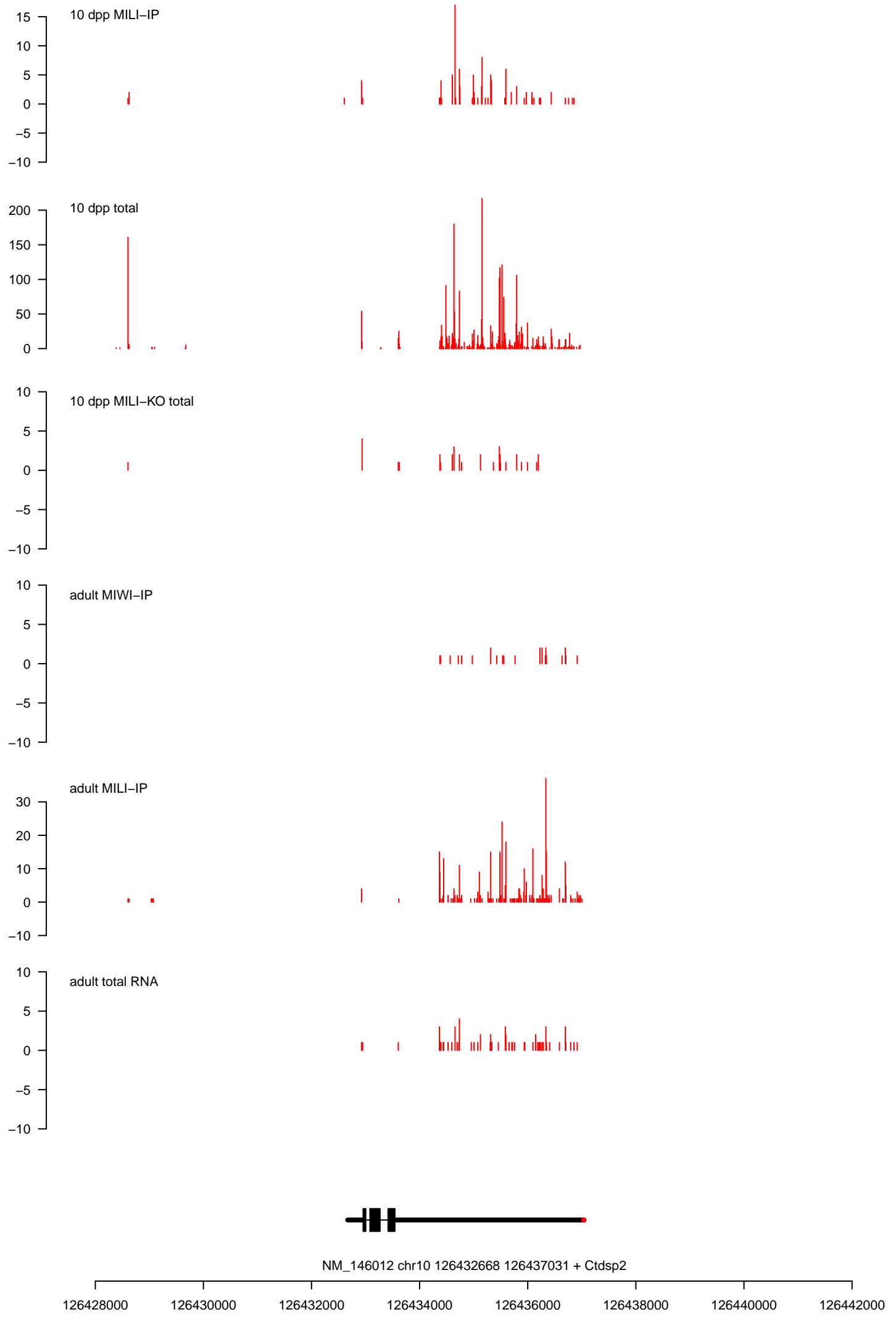




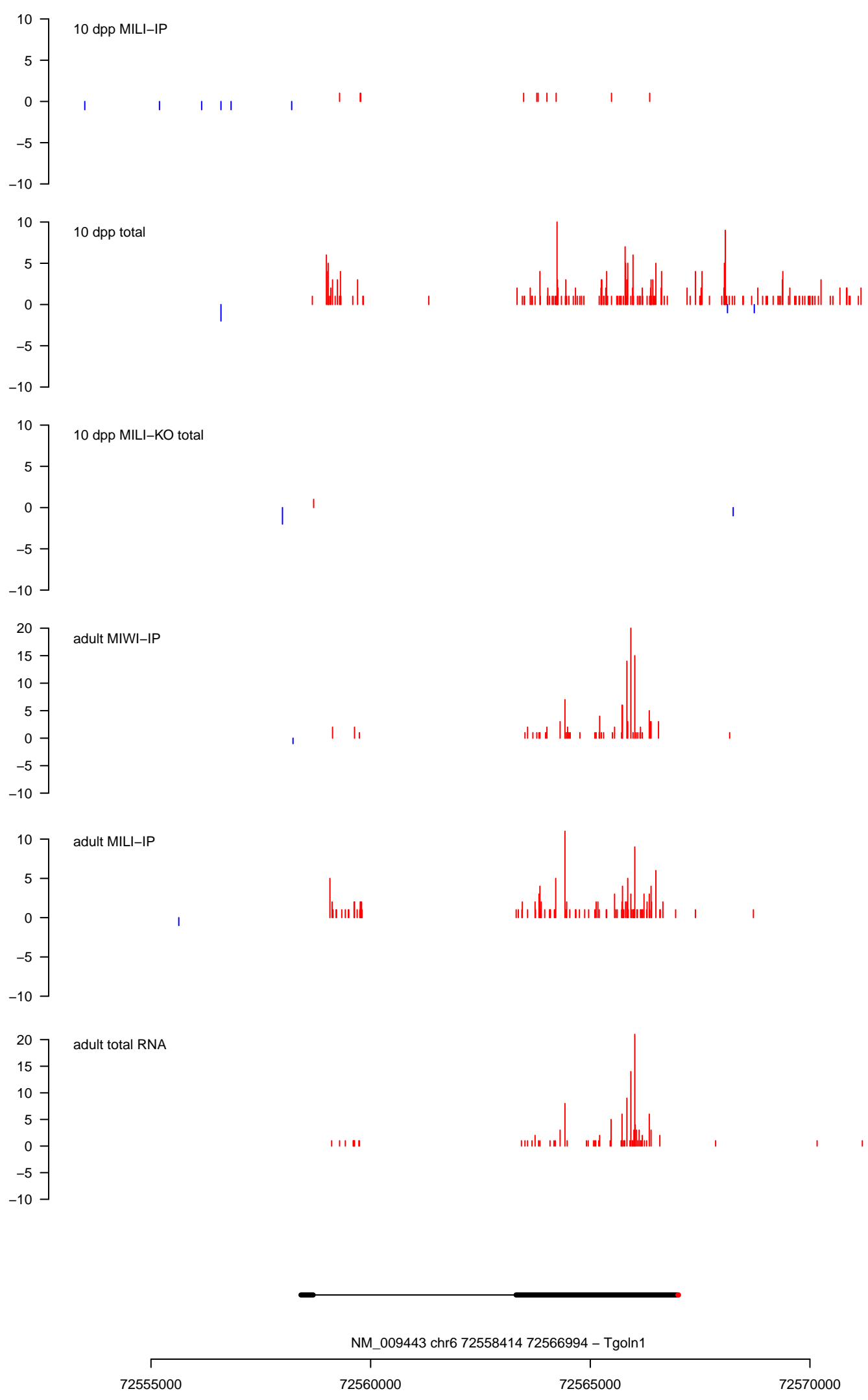


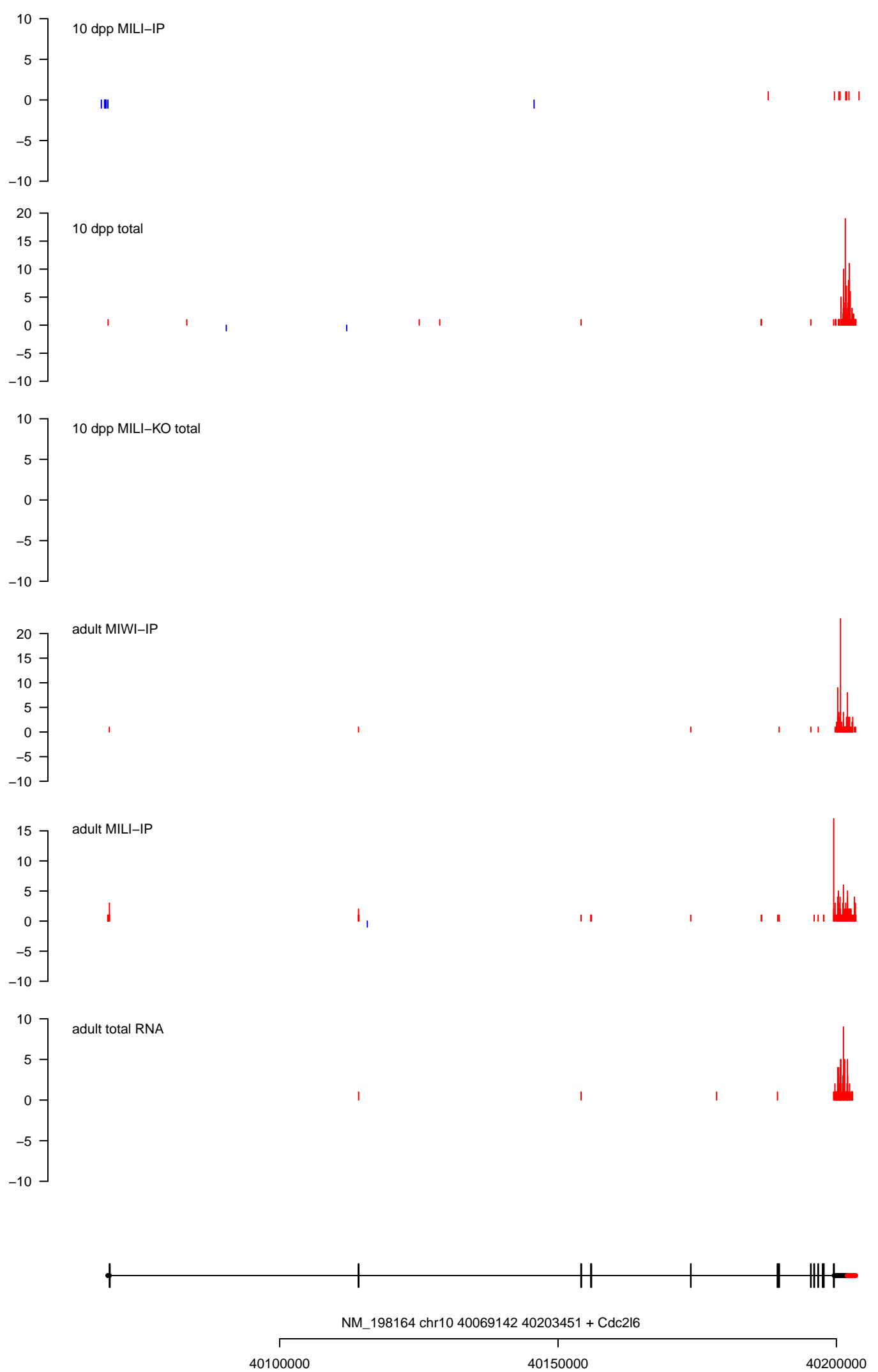


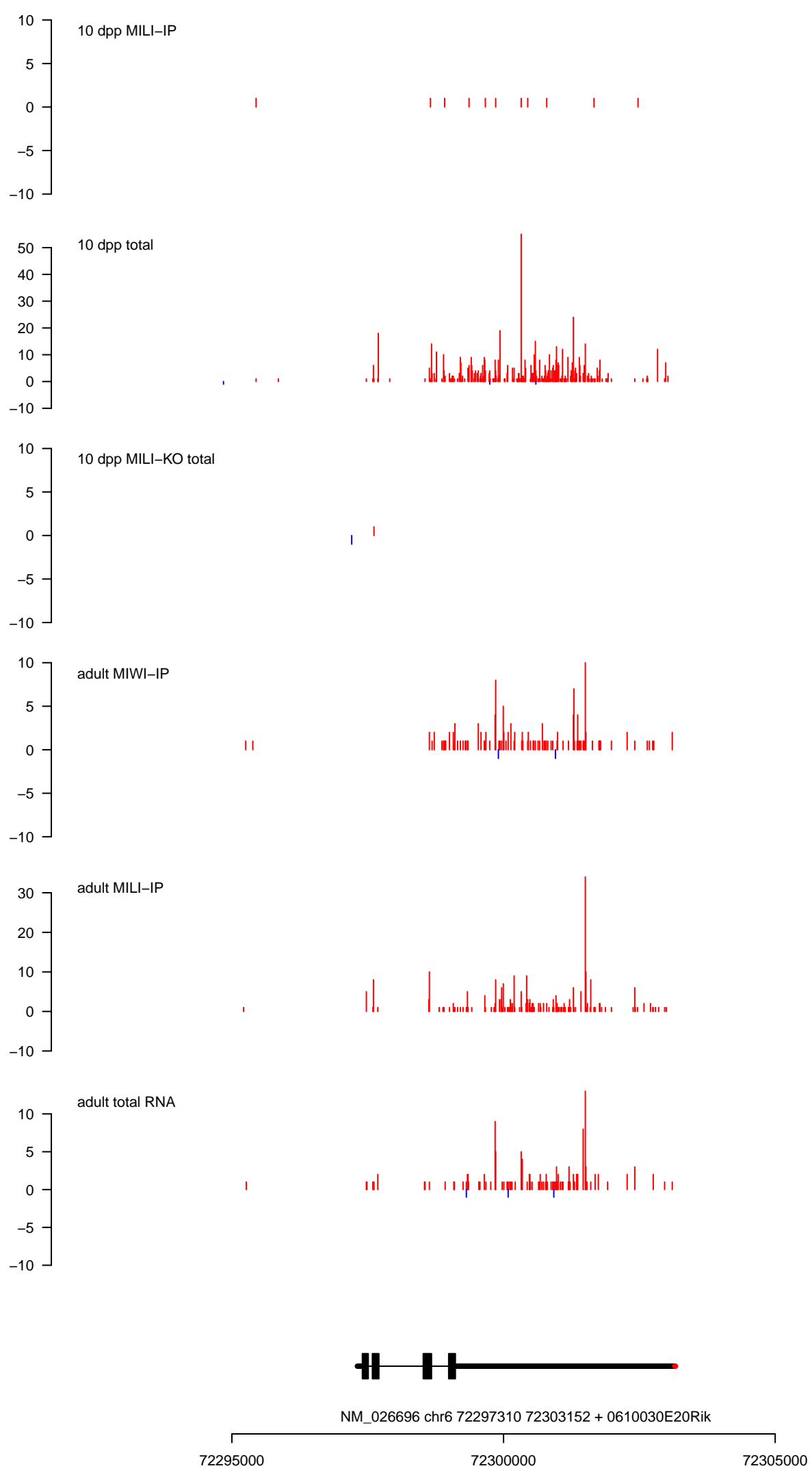


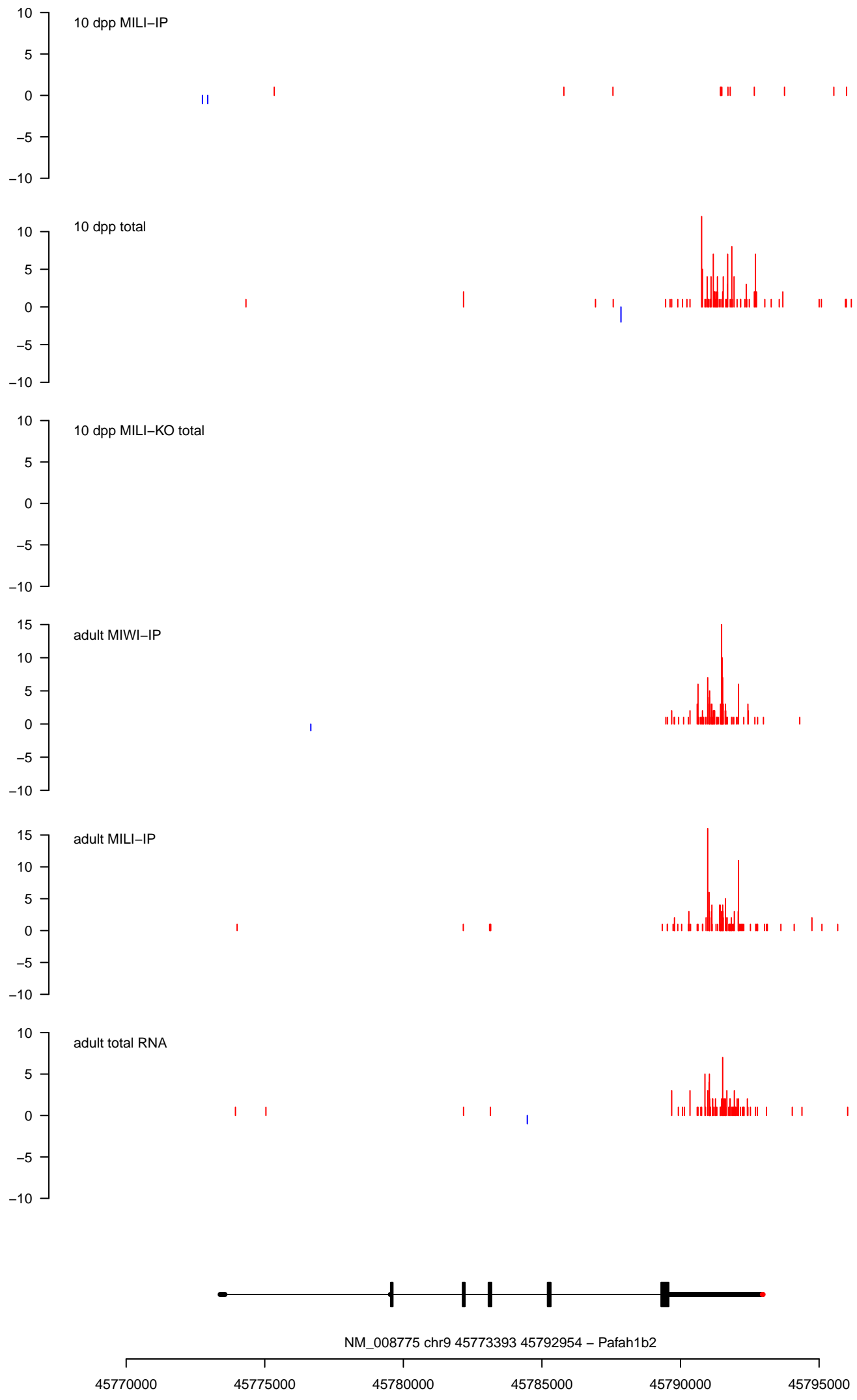


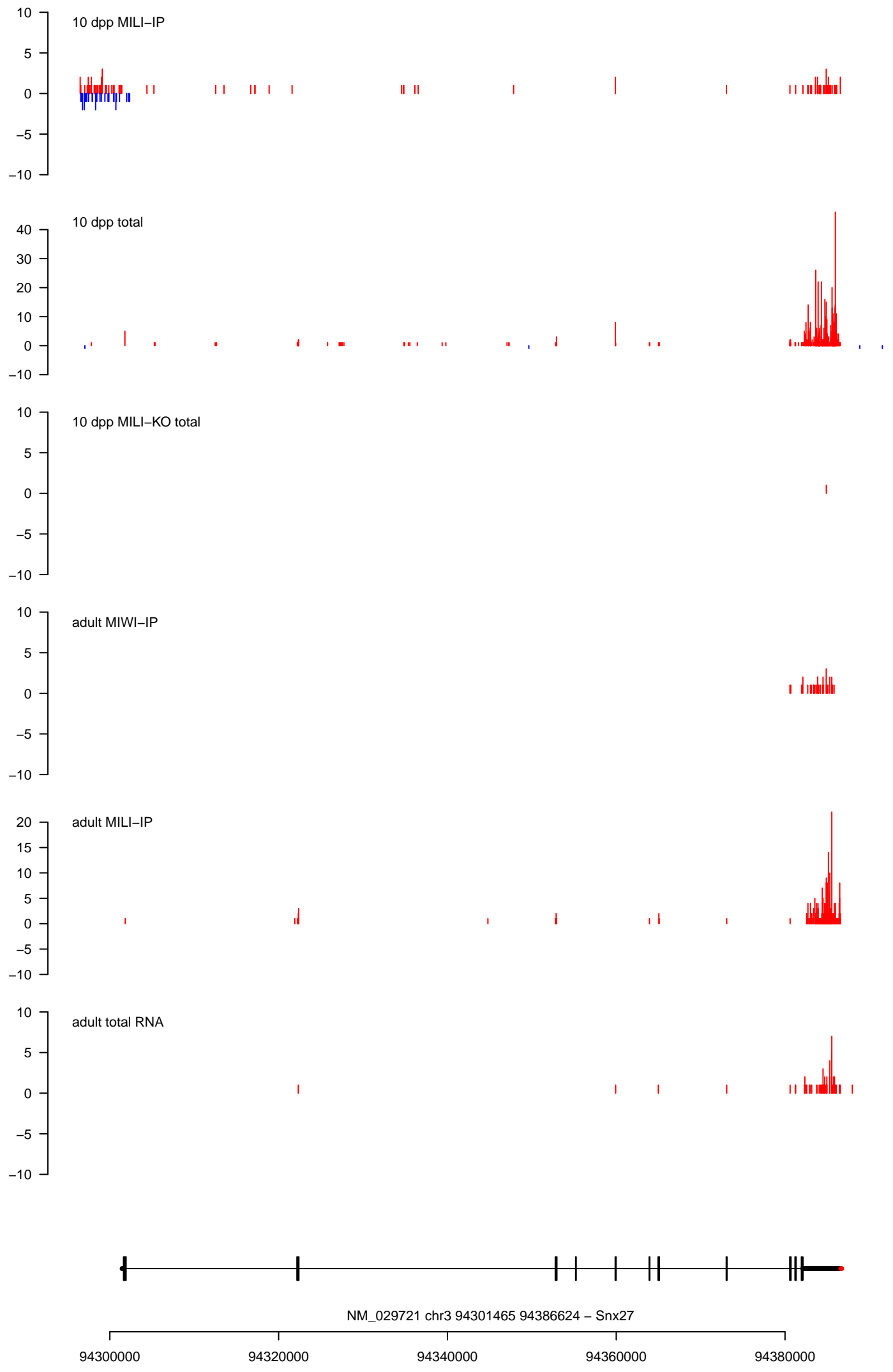


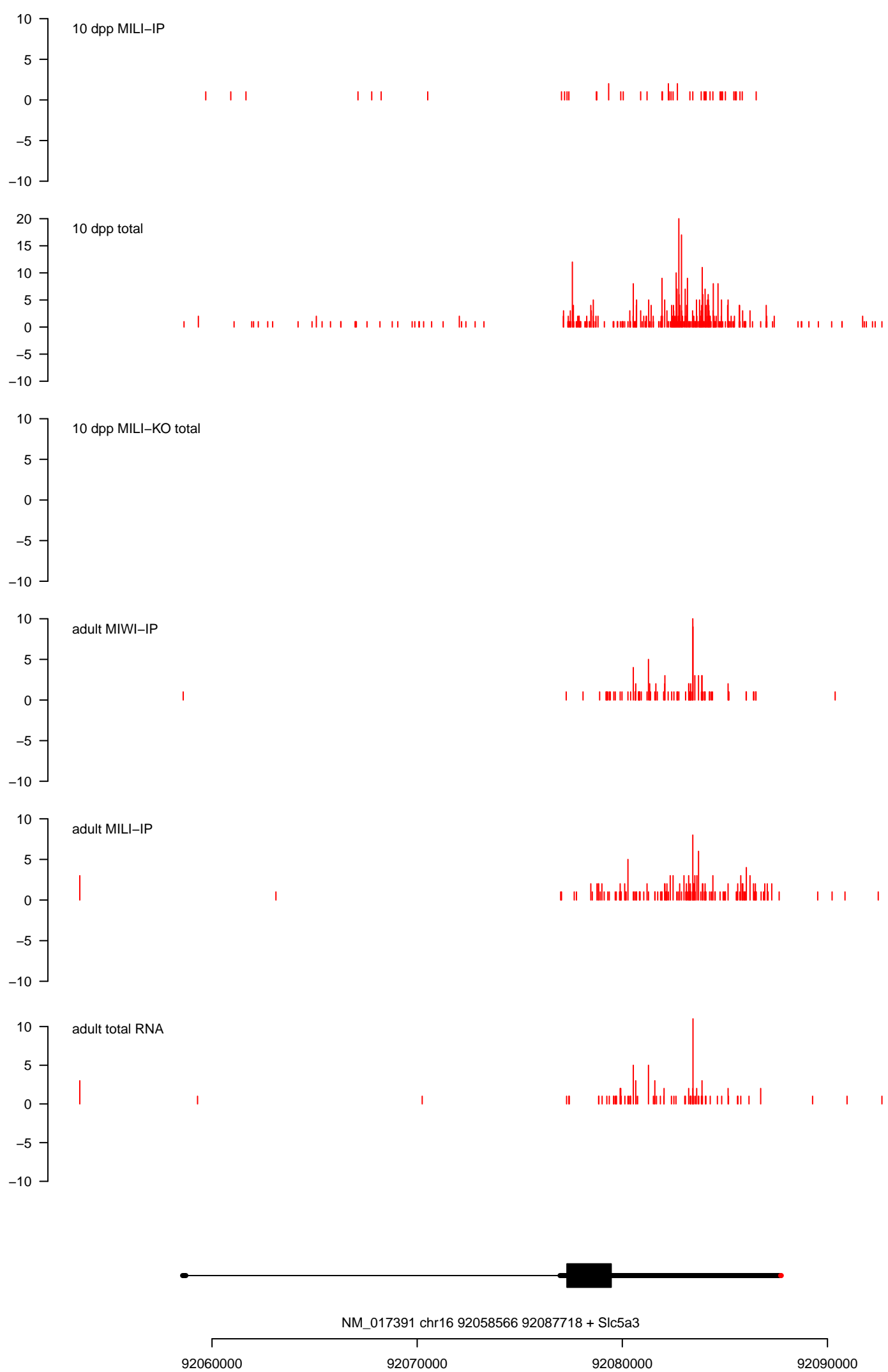


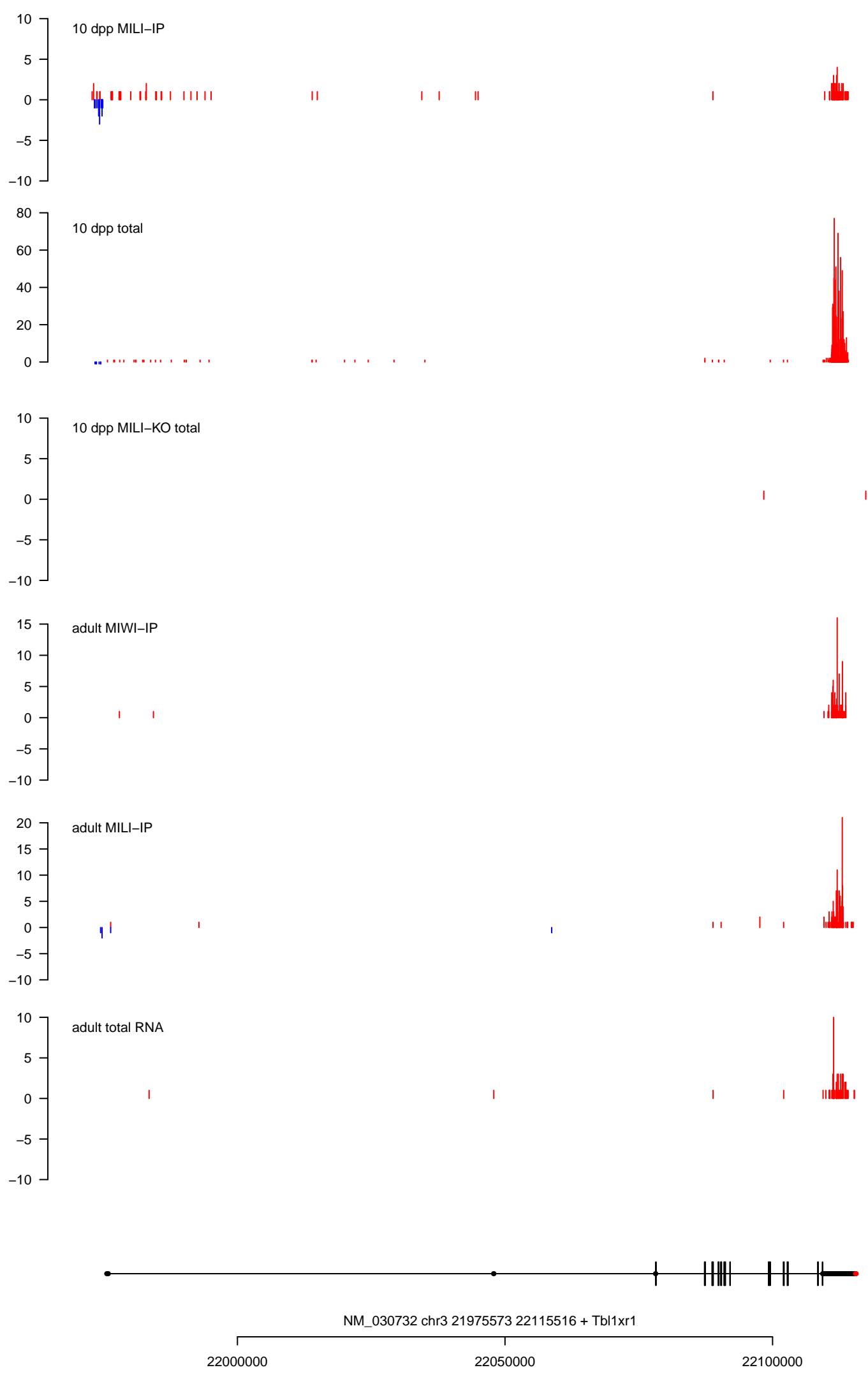


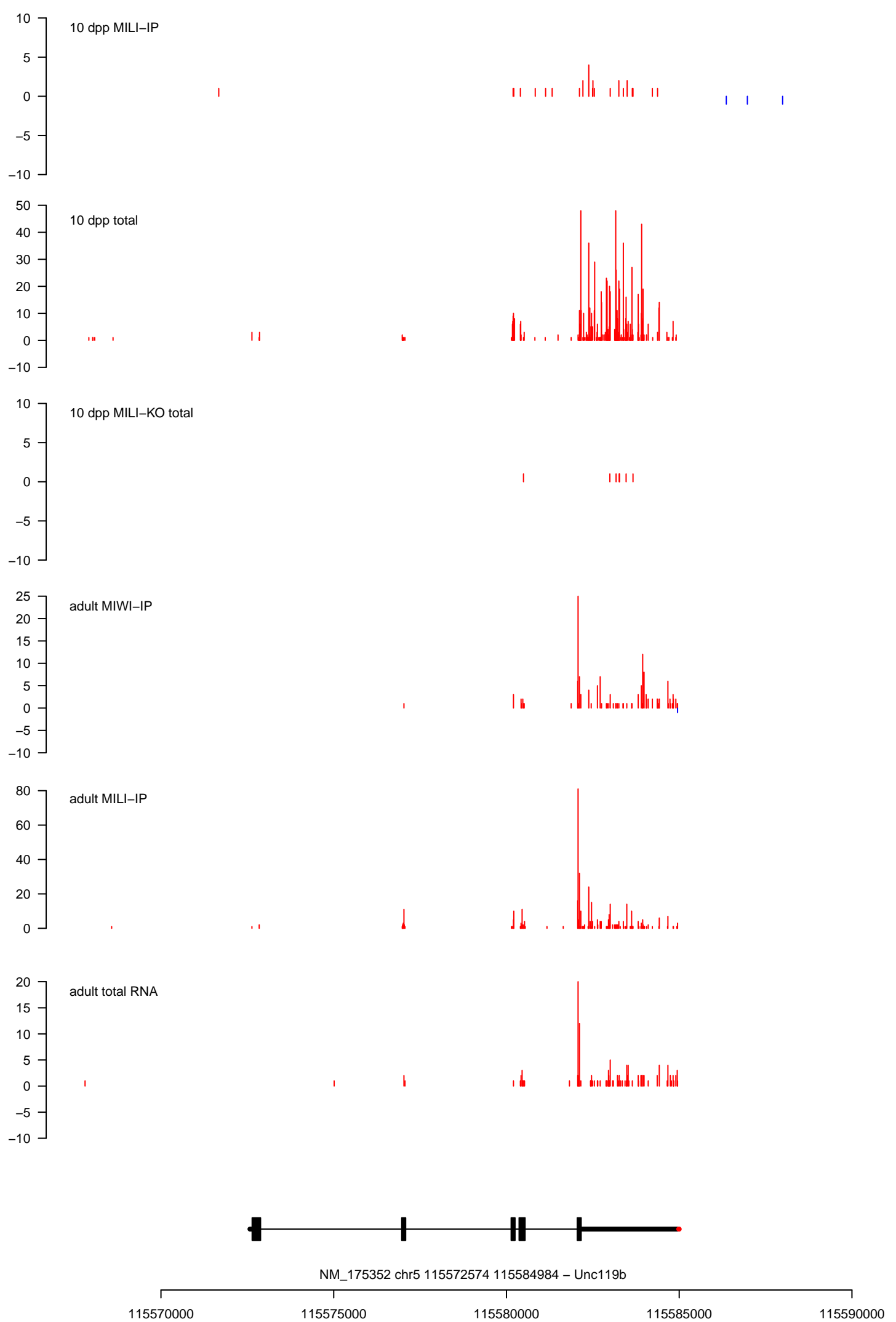




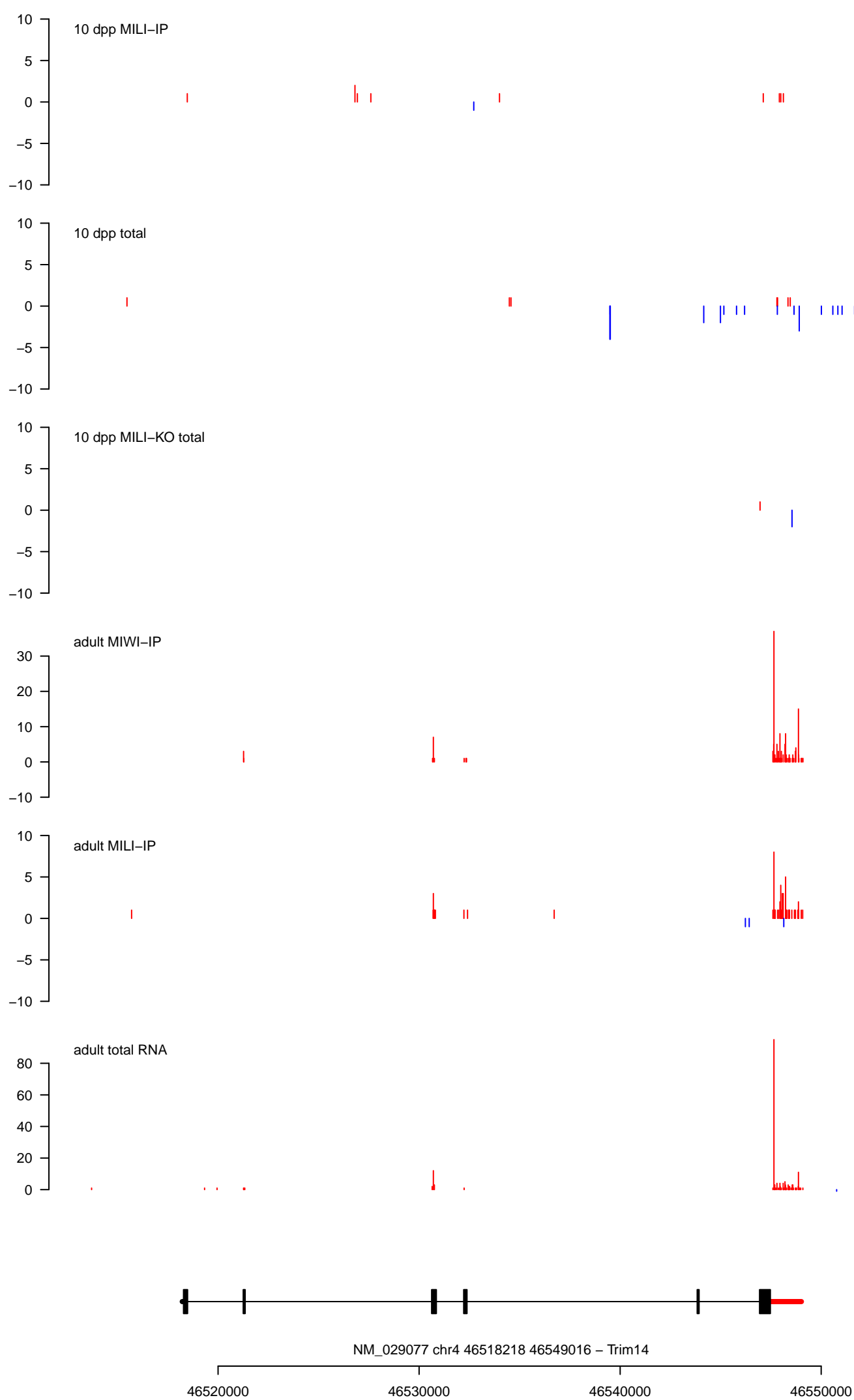


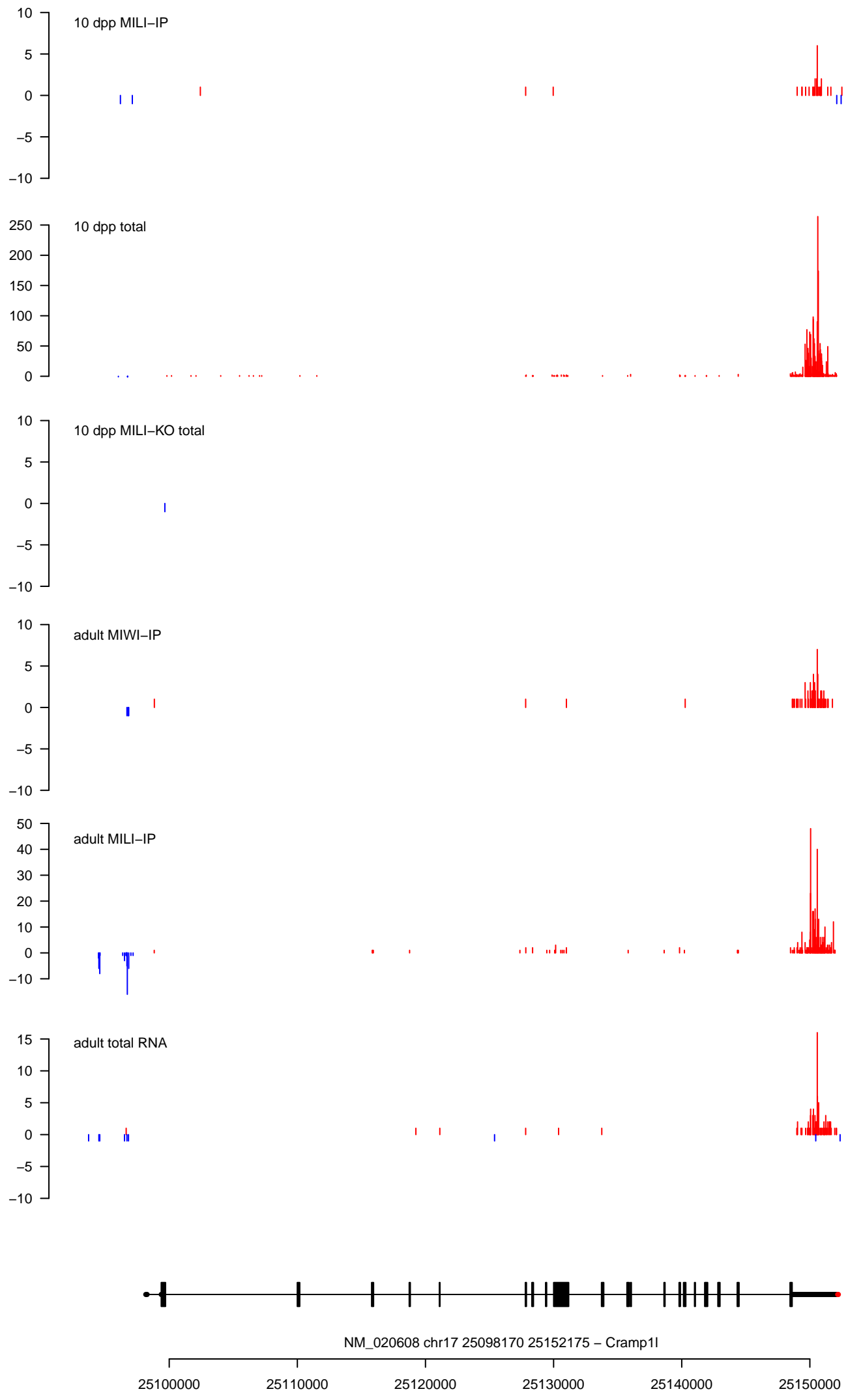


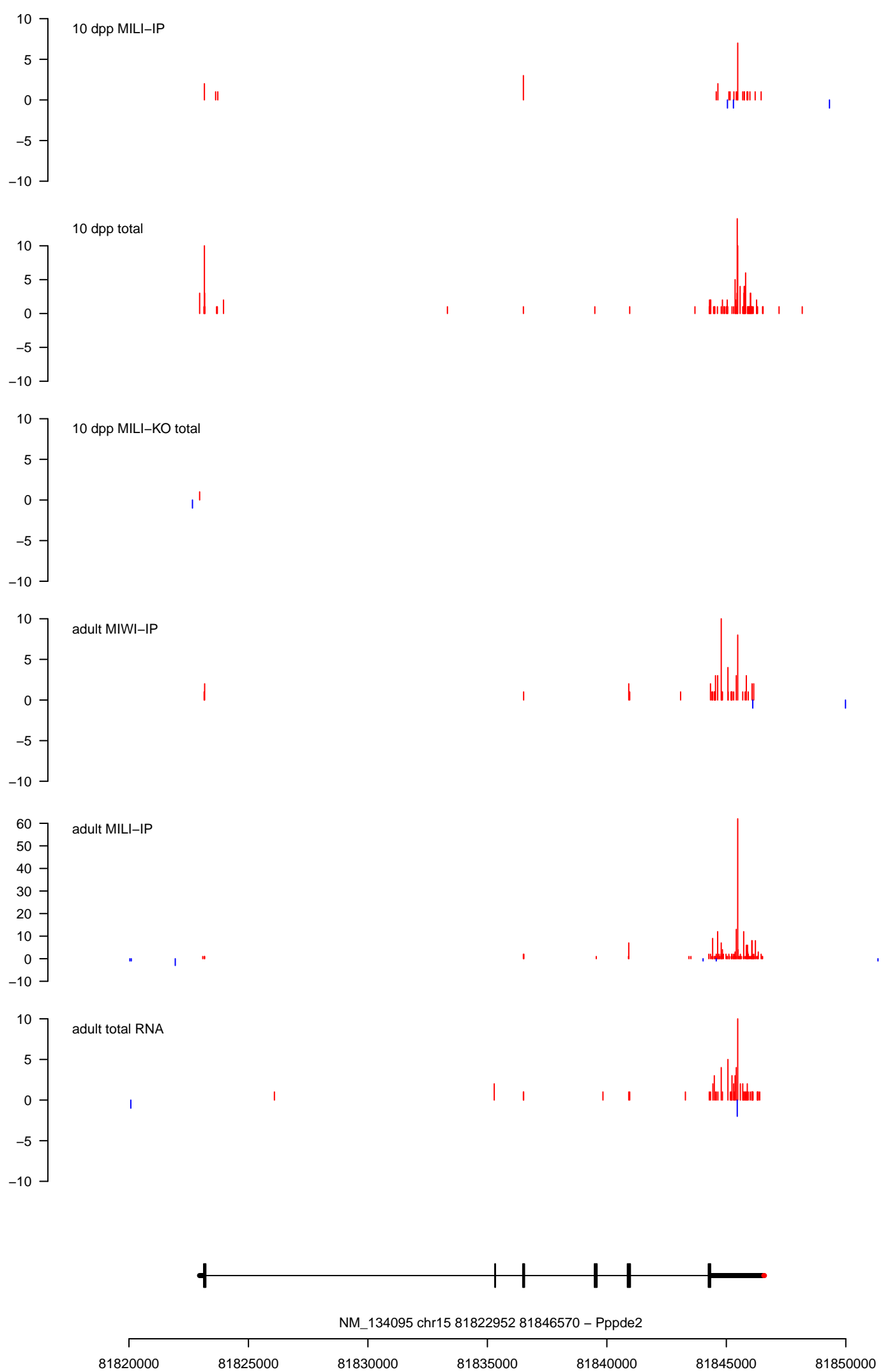


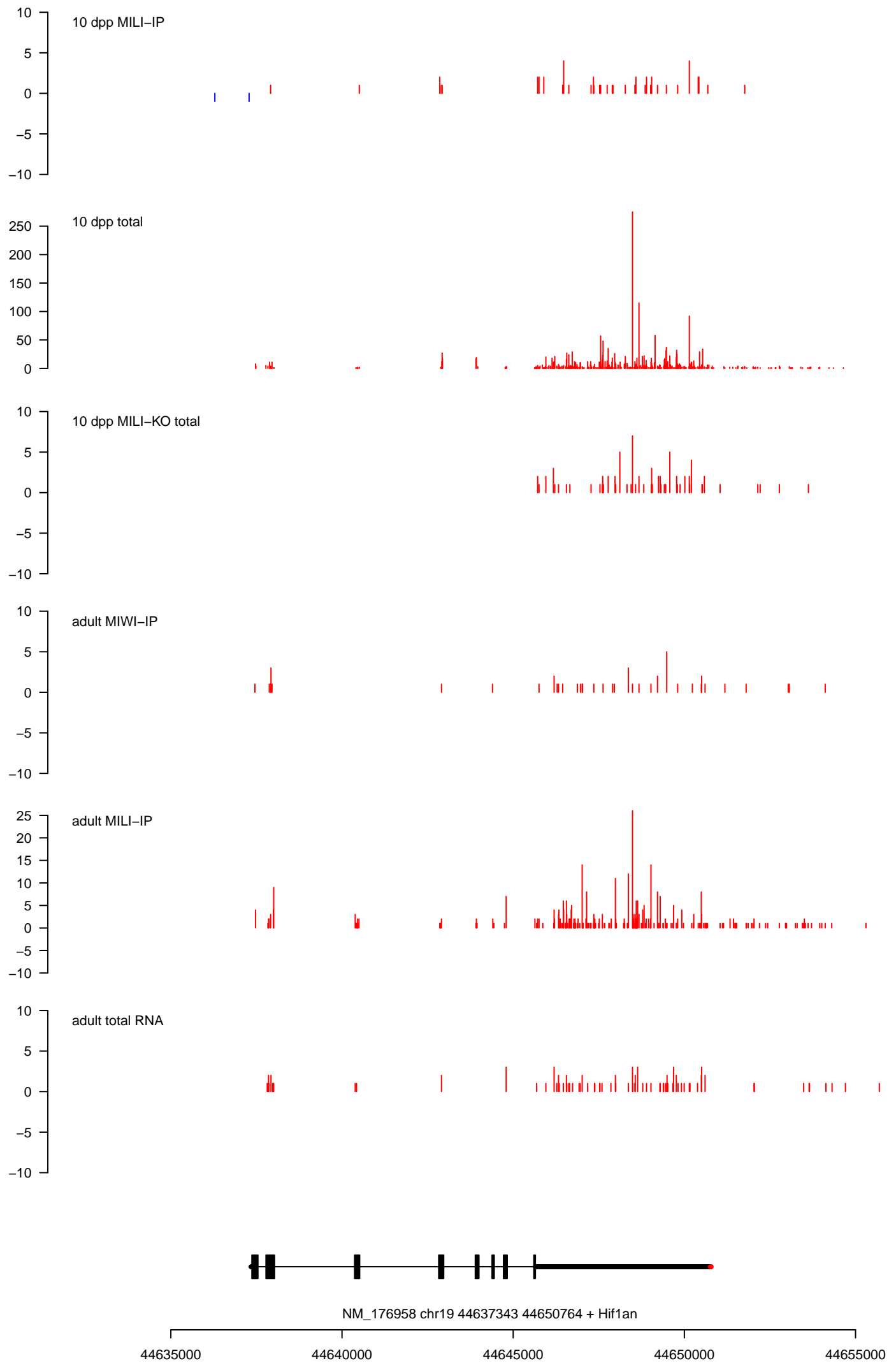


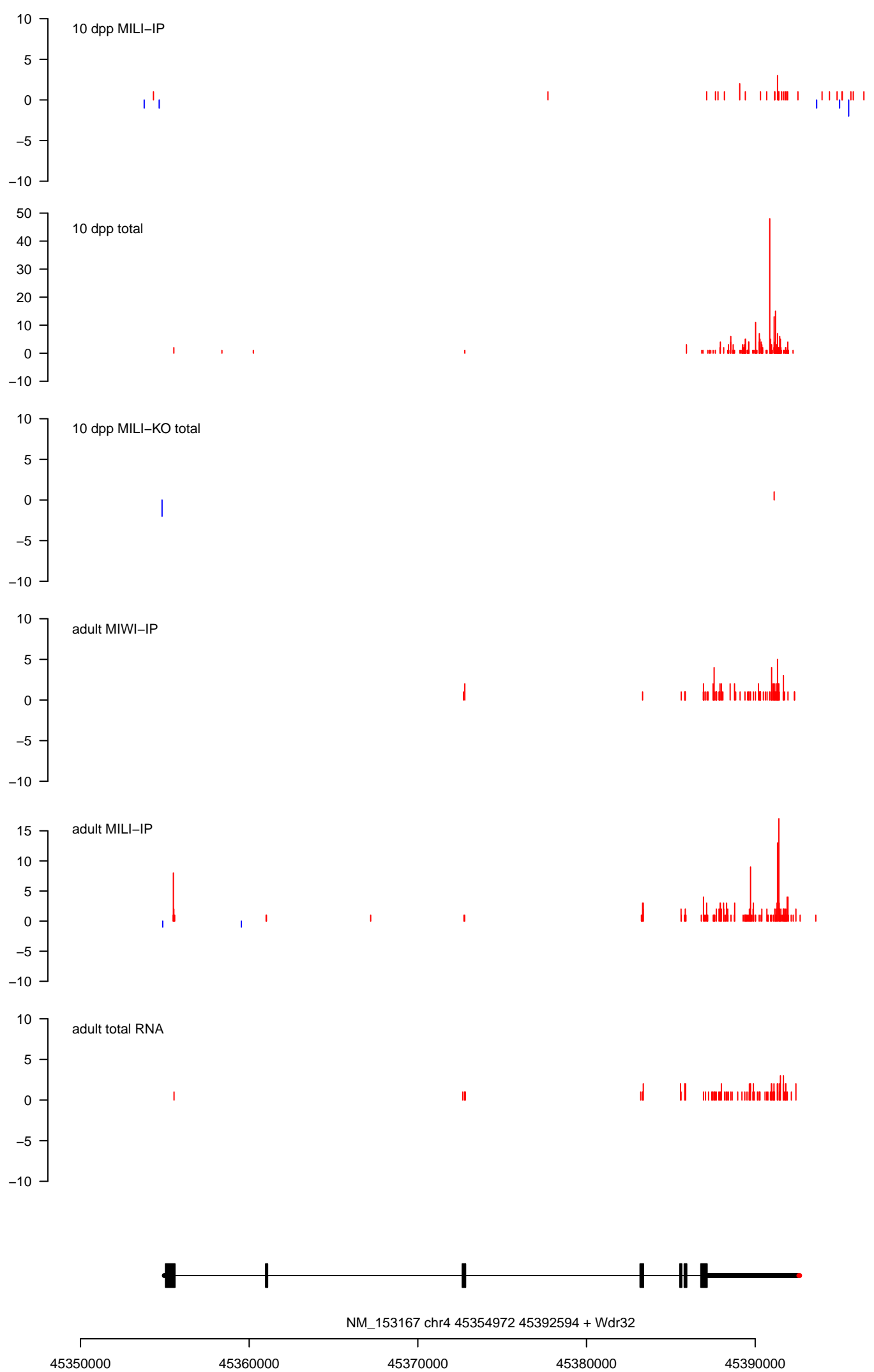


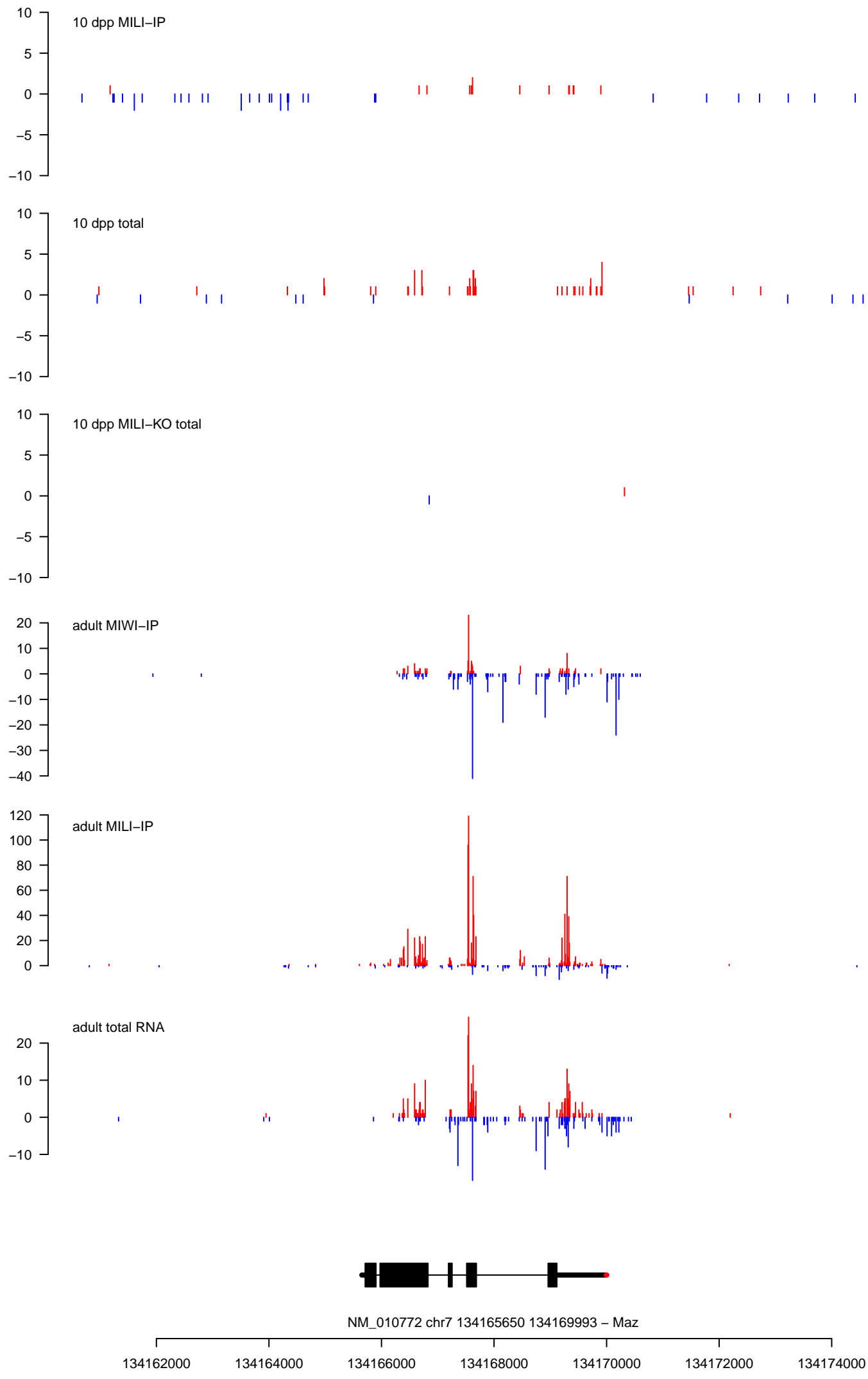


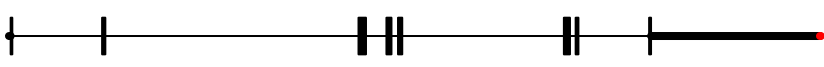
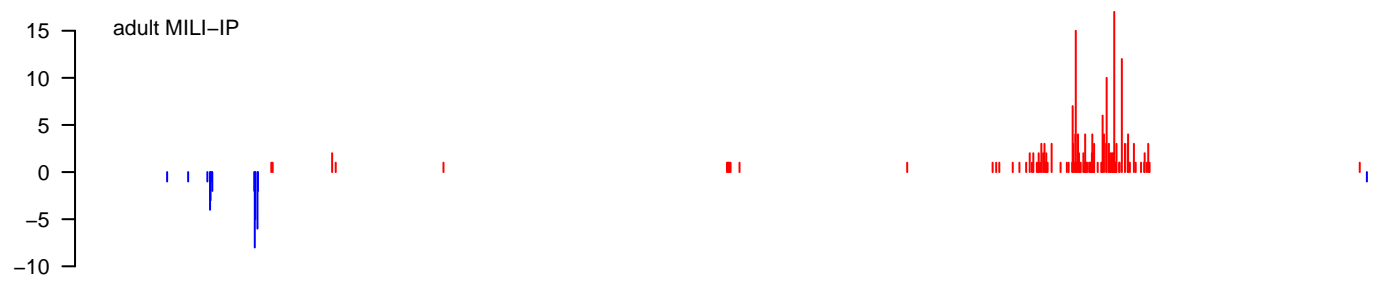
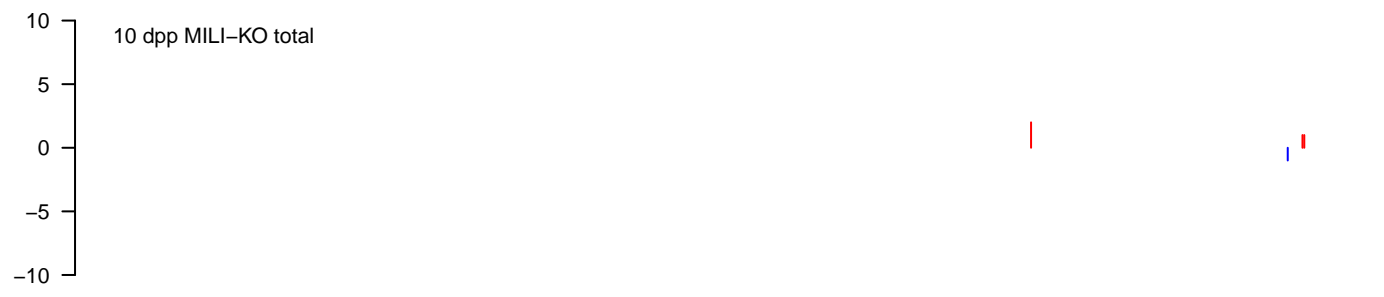
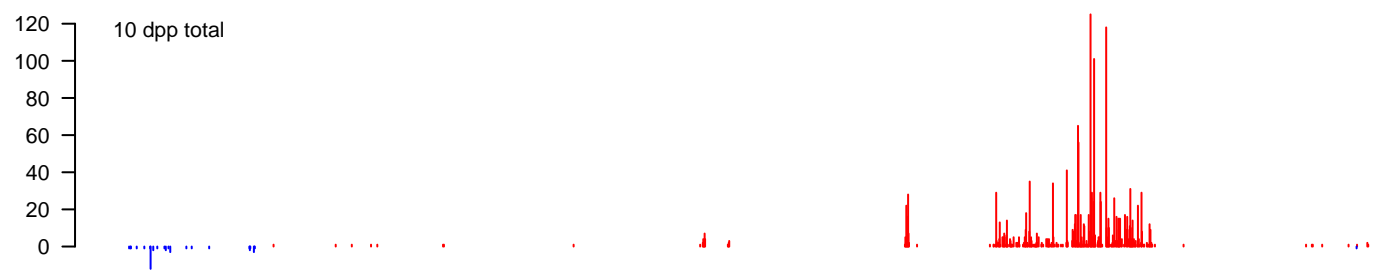






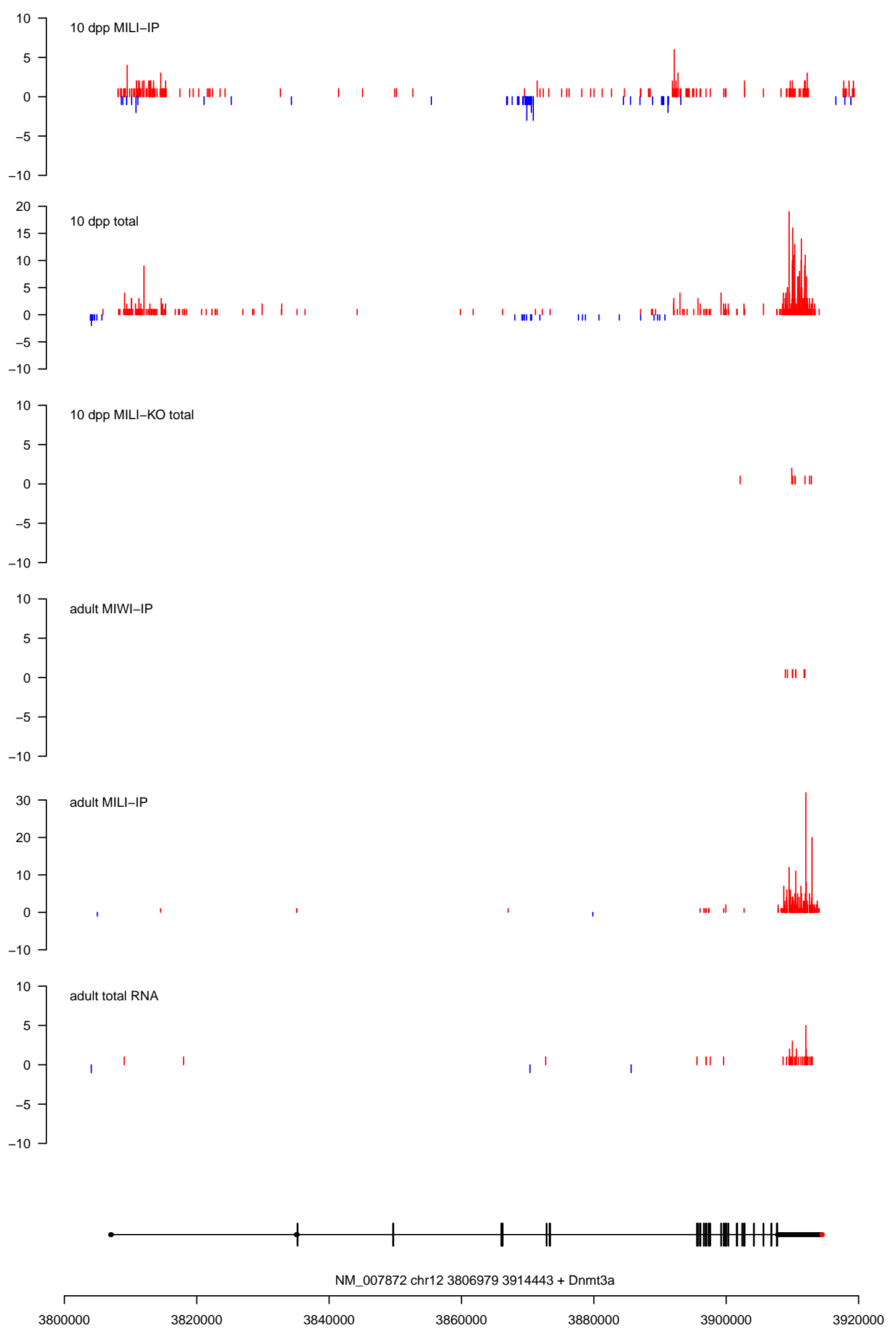




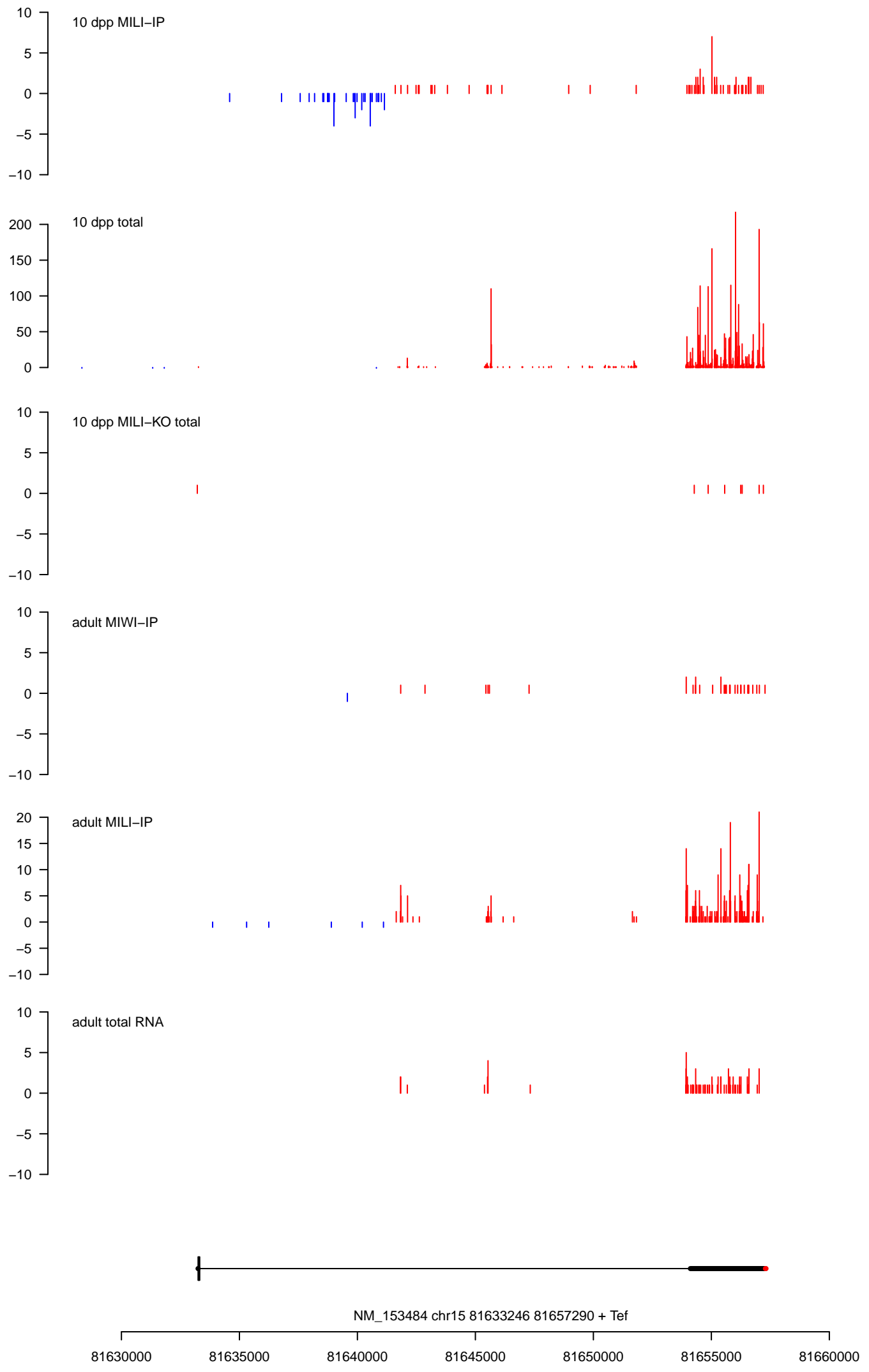


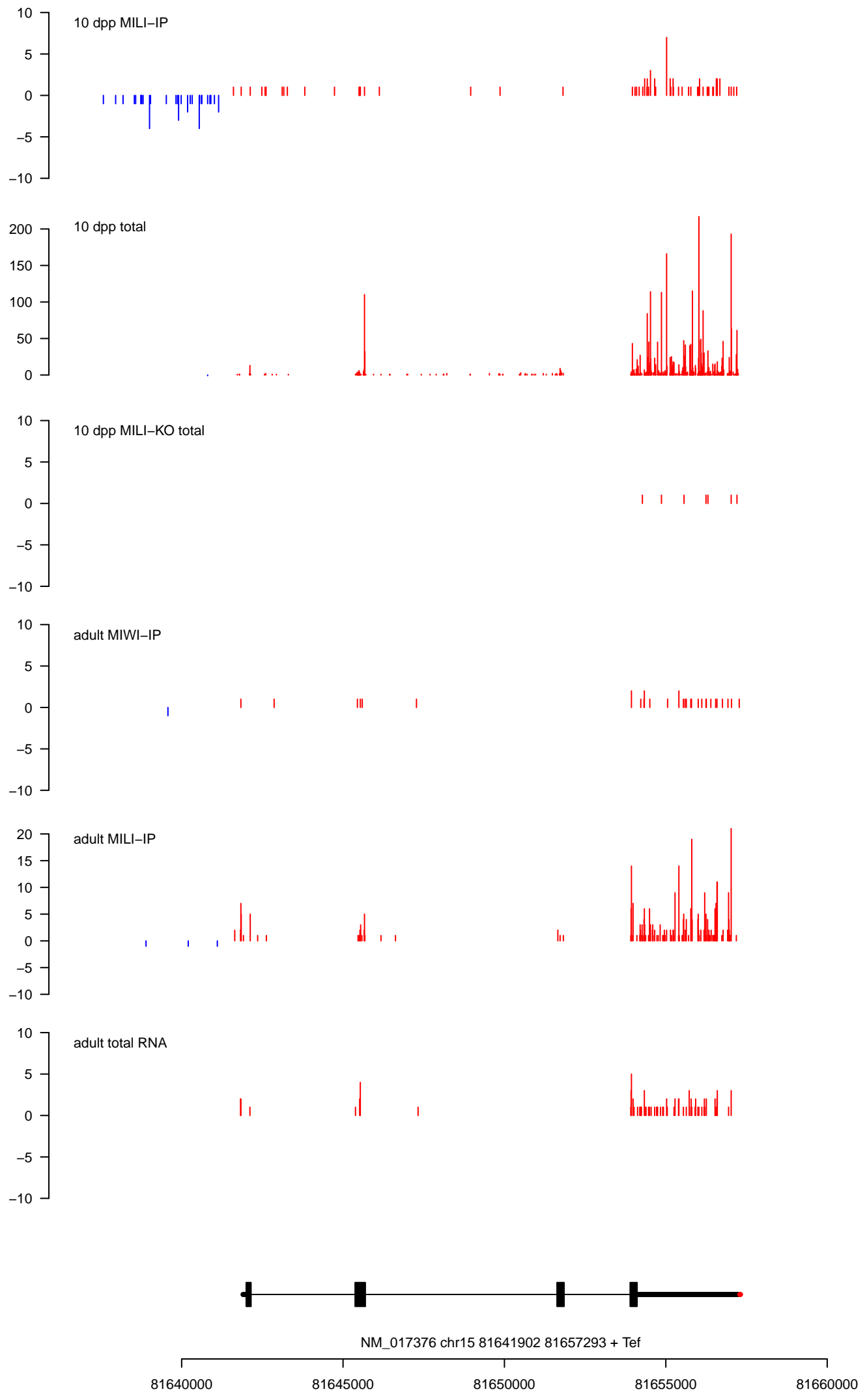
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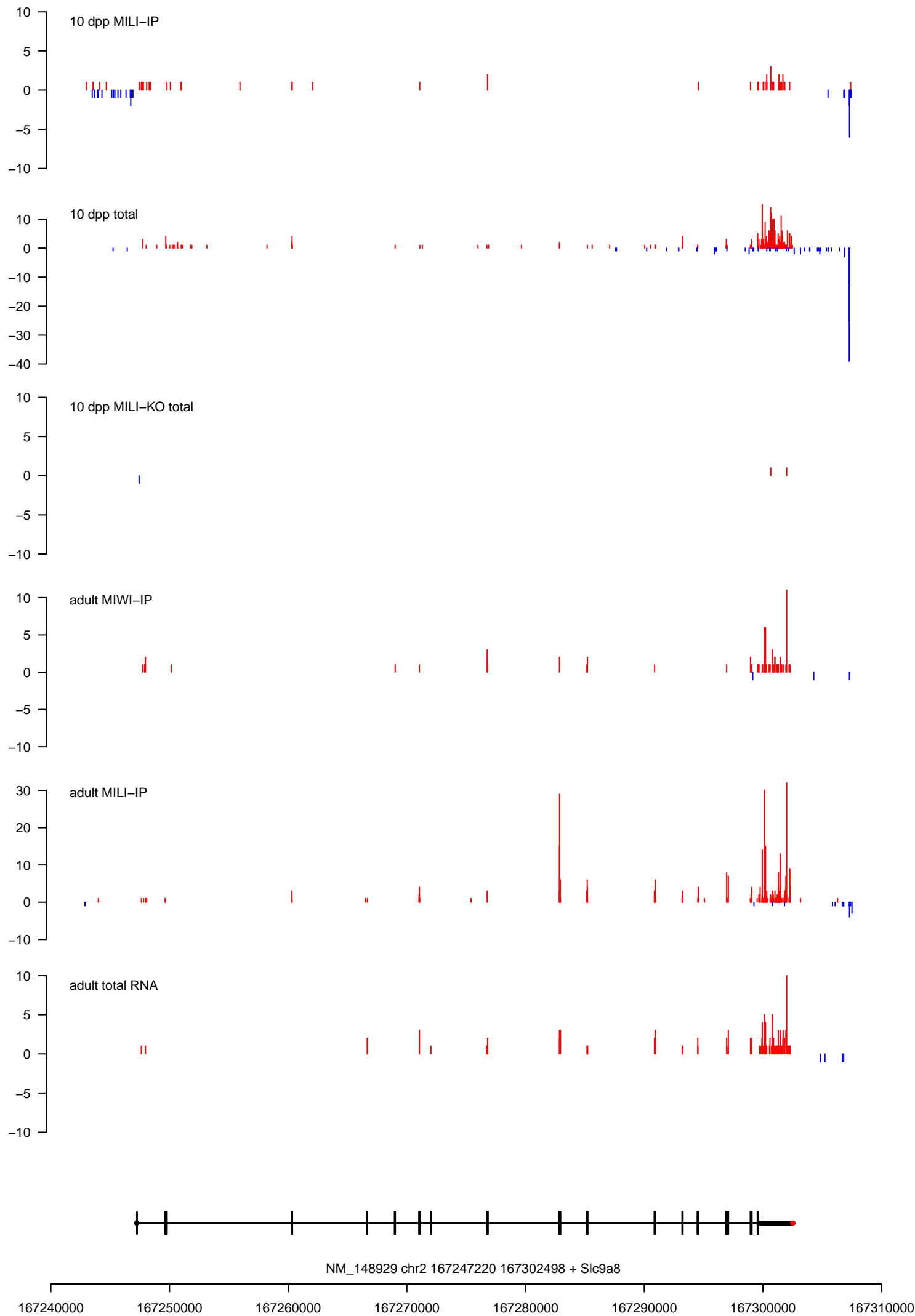


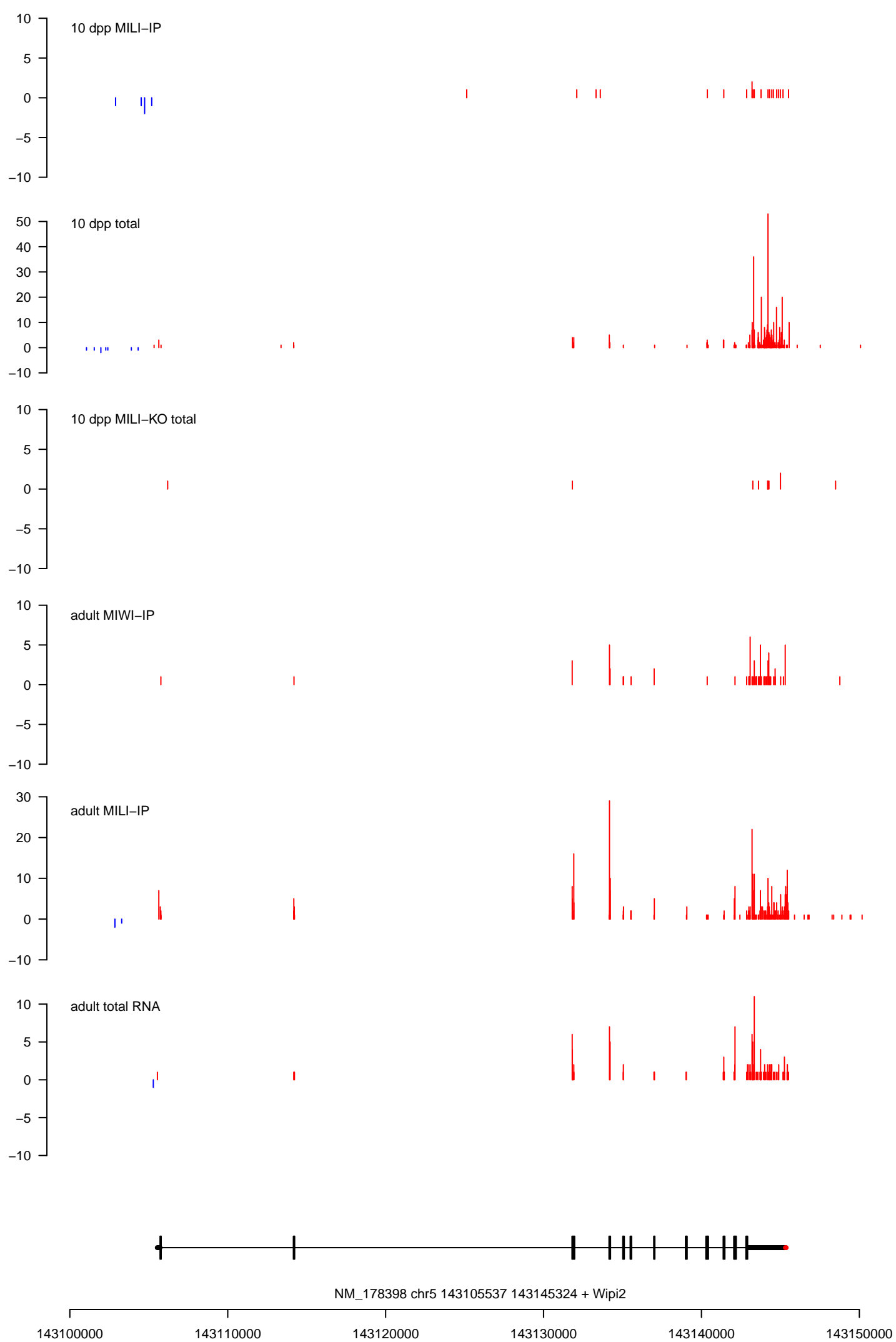


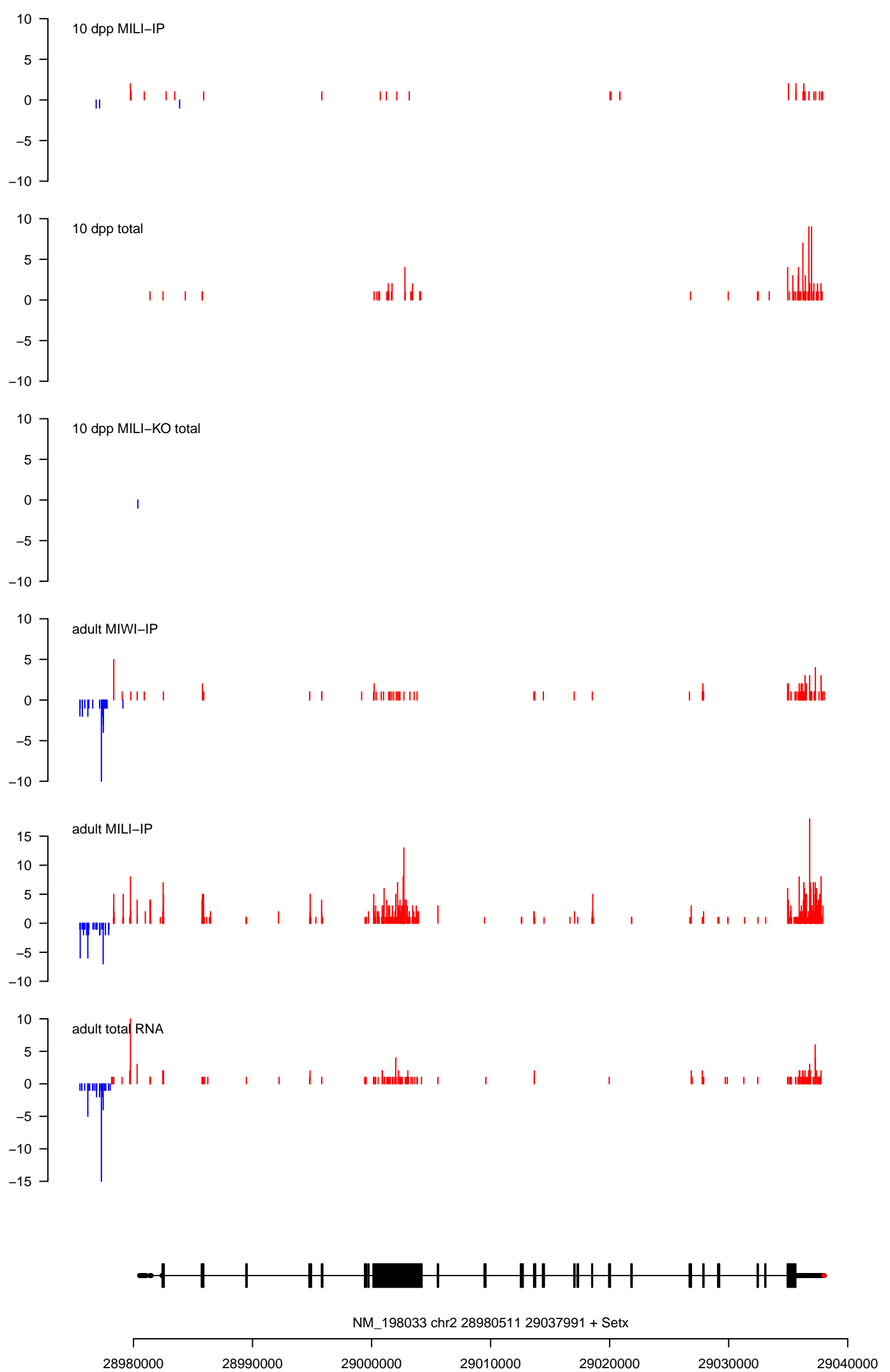


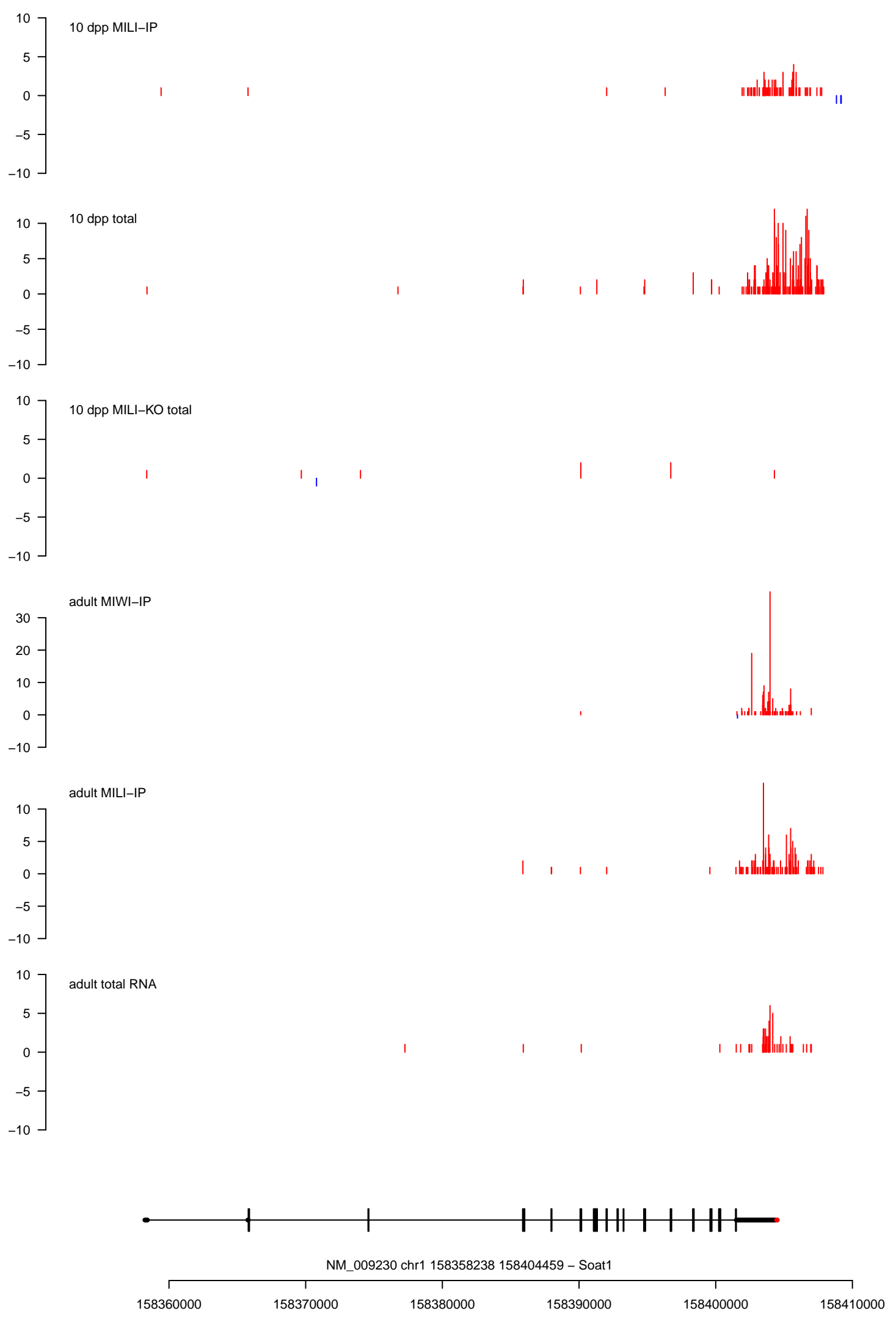


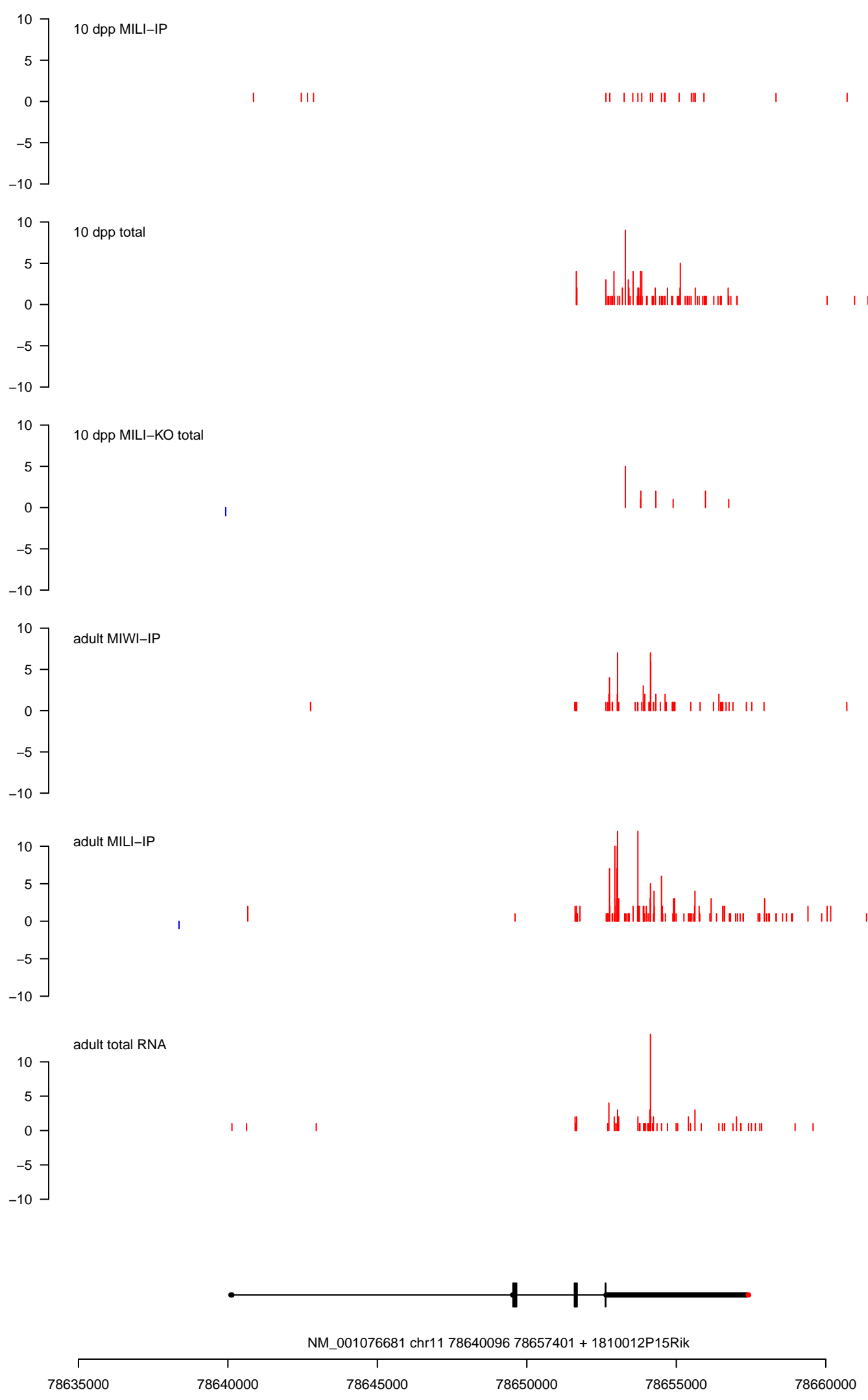


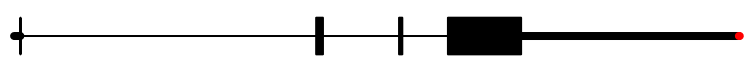
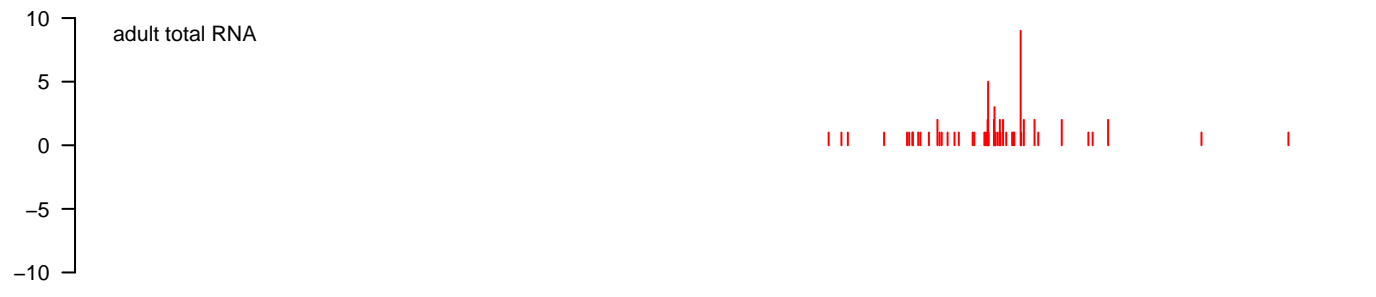
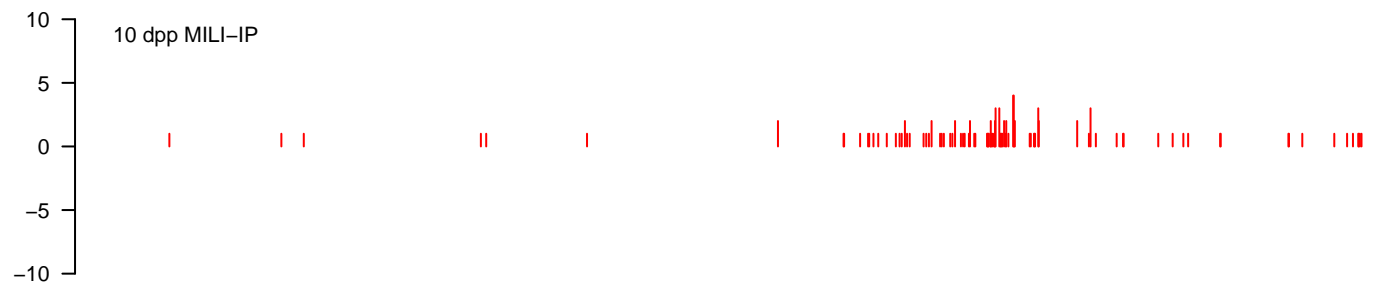








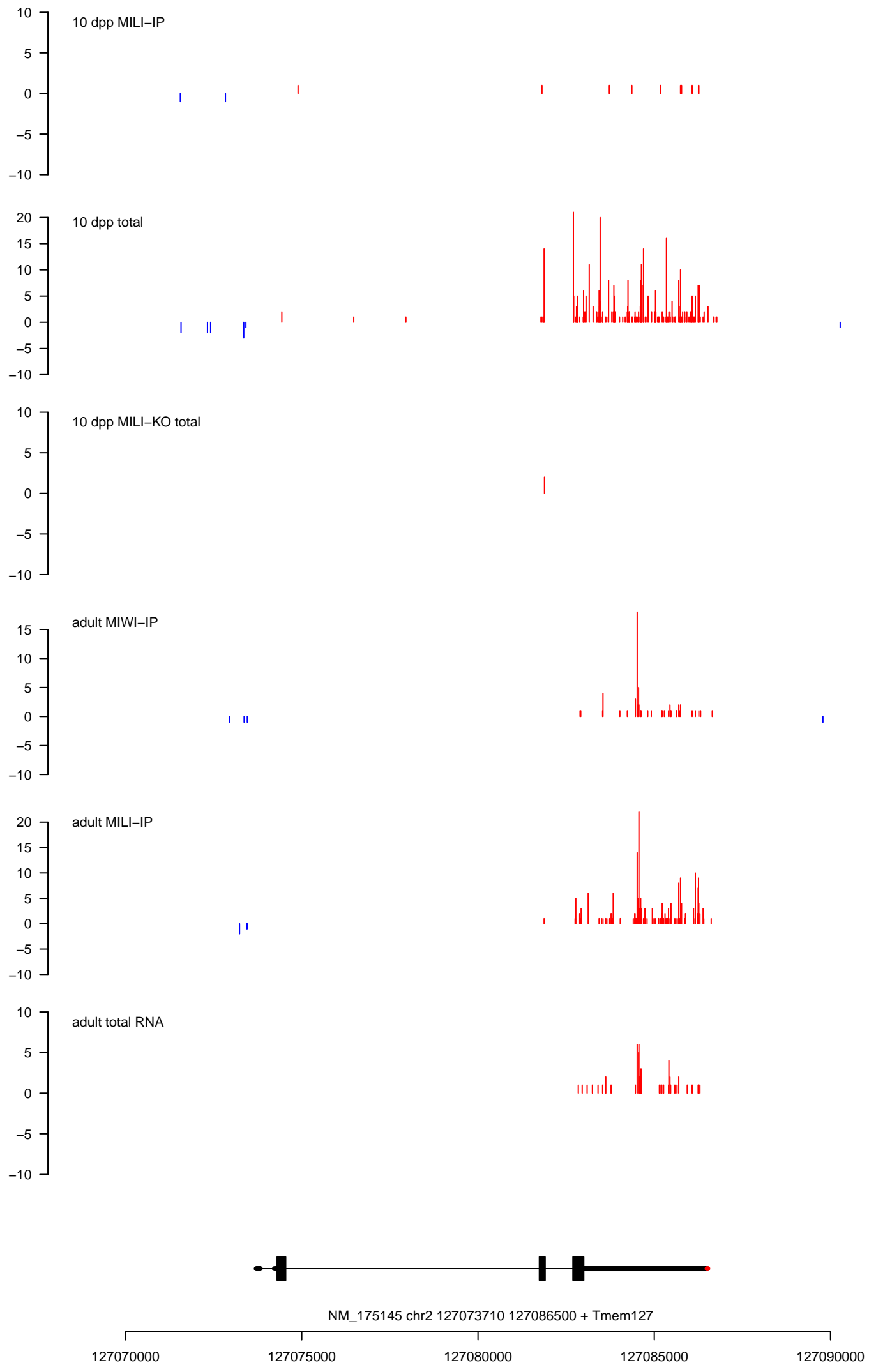


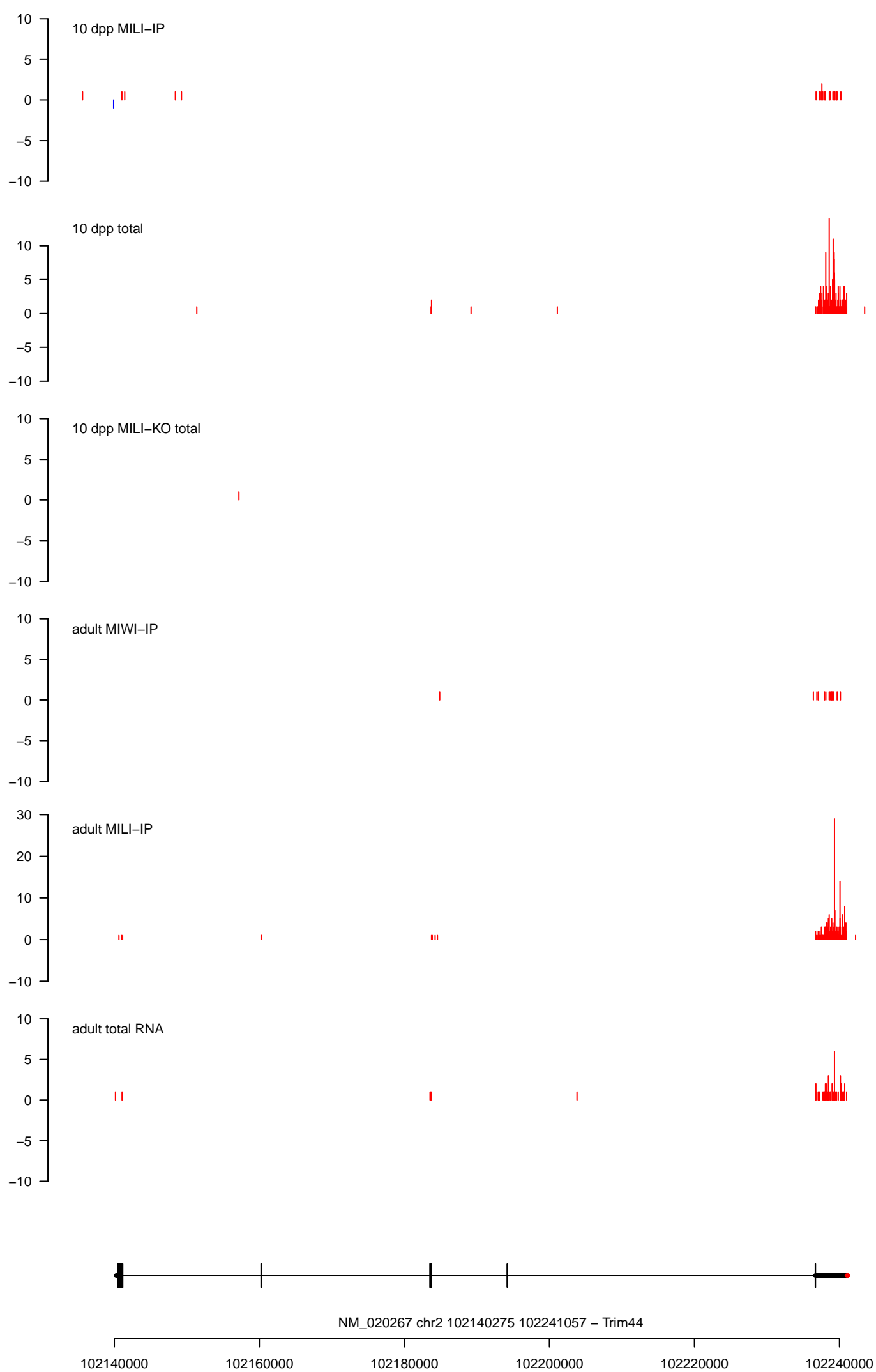


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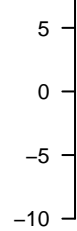
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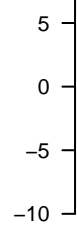




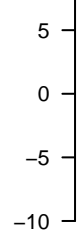
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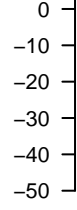
10 dpp total



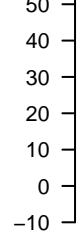
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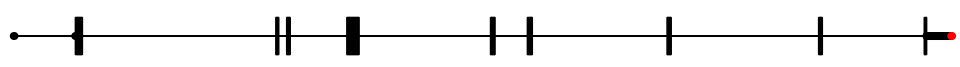
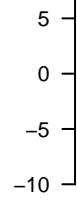
adult MIWI-IP



adult MILI-IP



adult total RNA



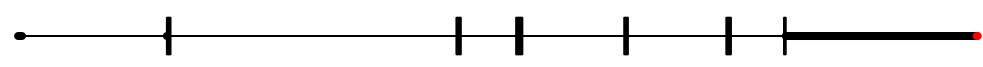
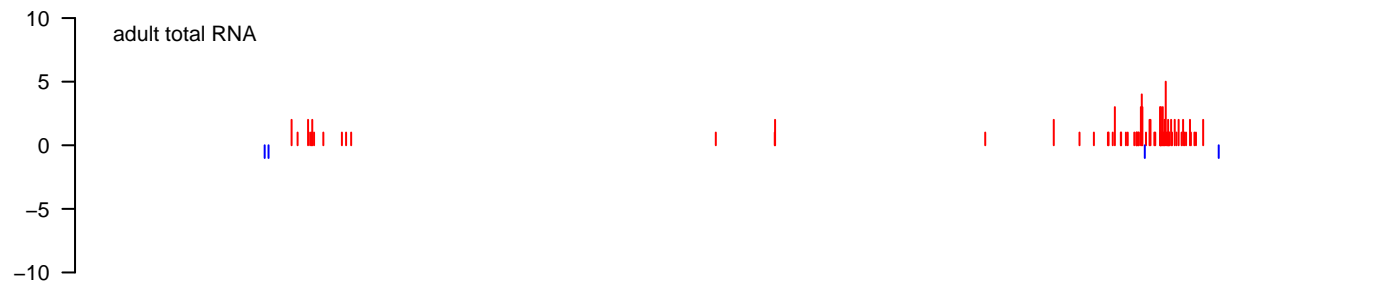
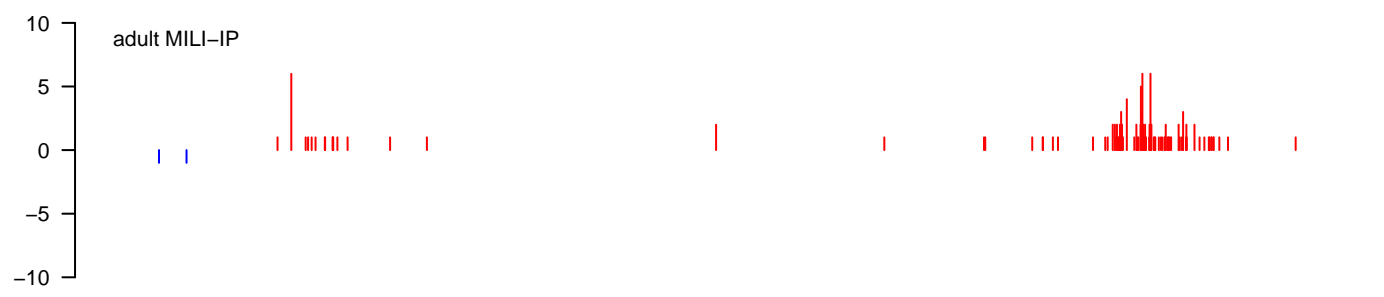
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83500000

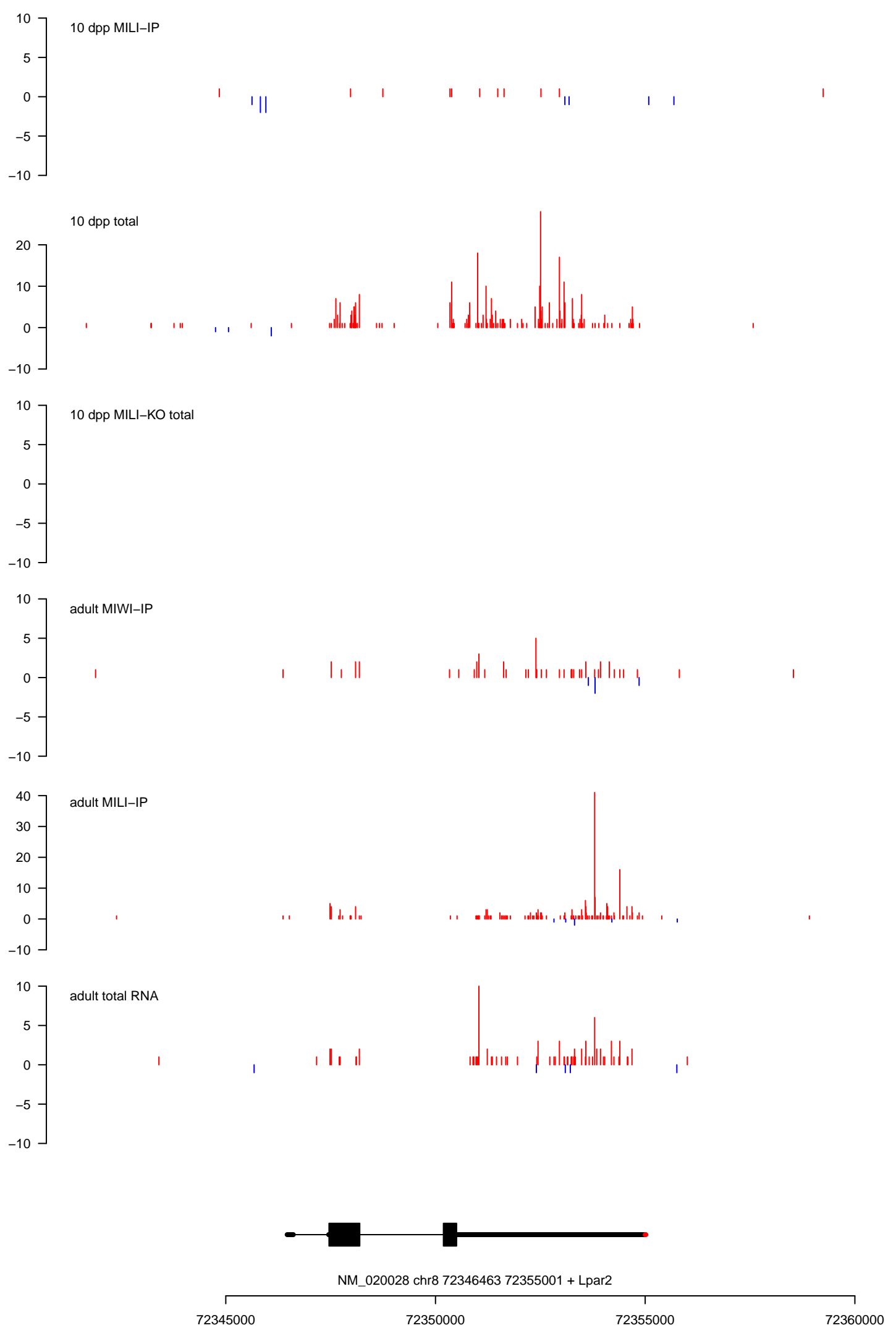
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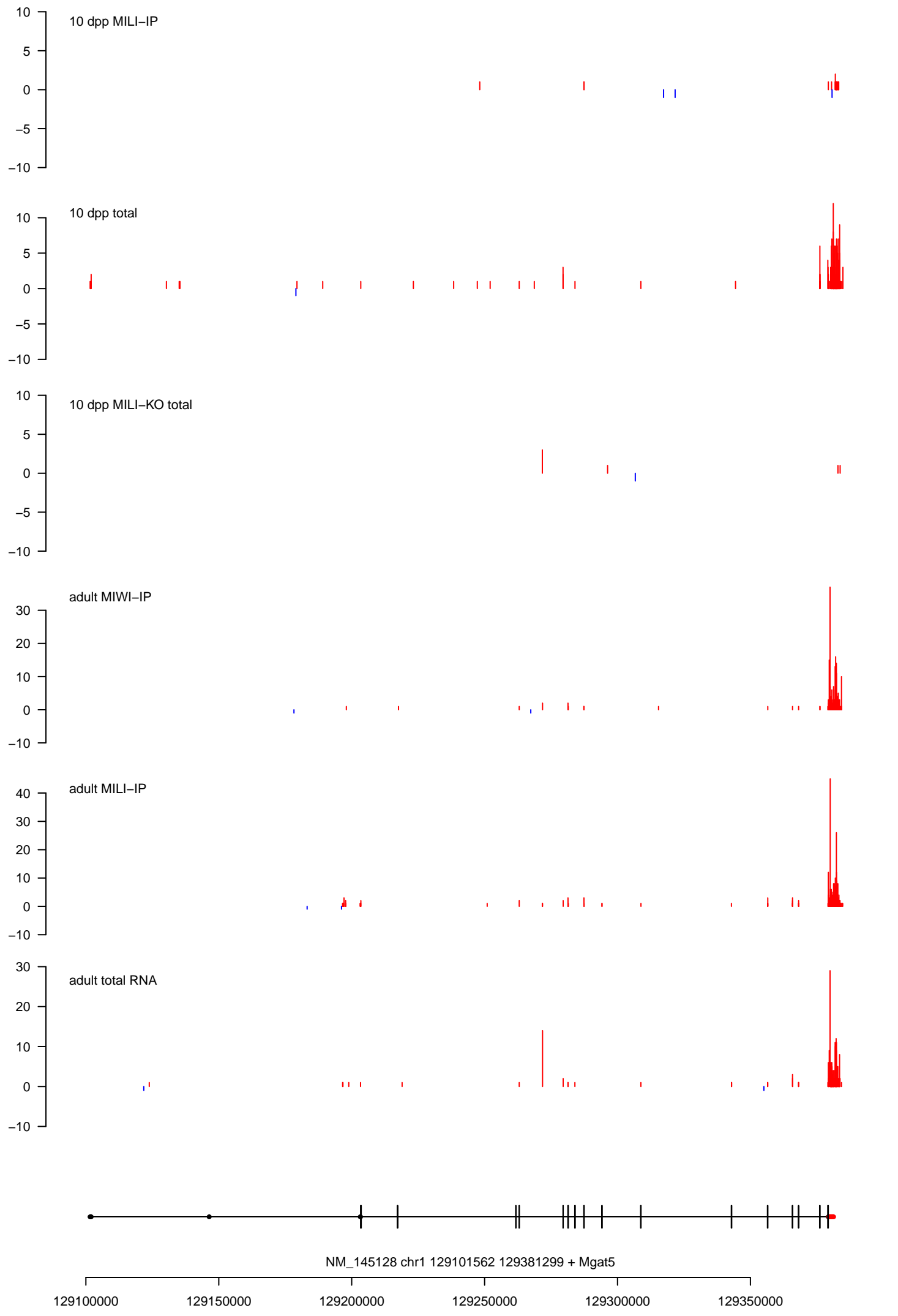
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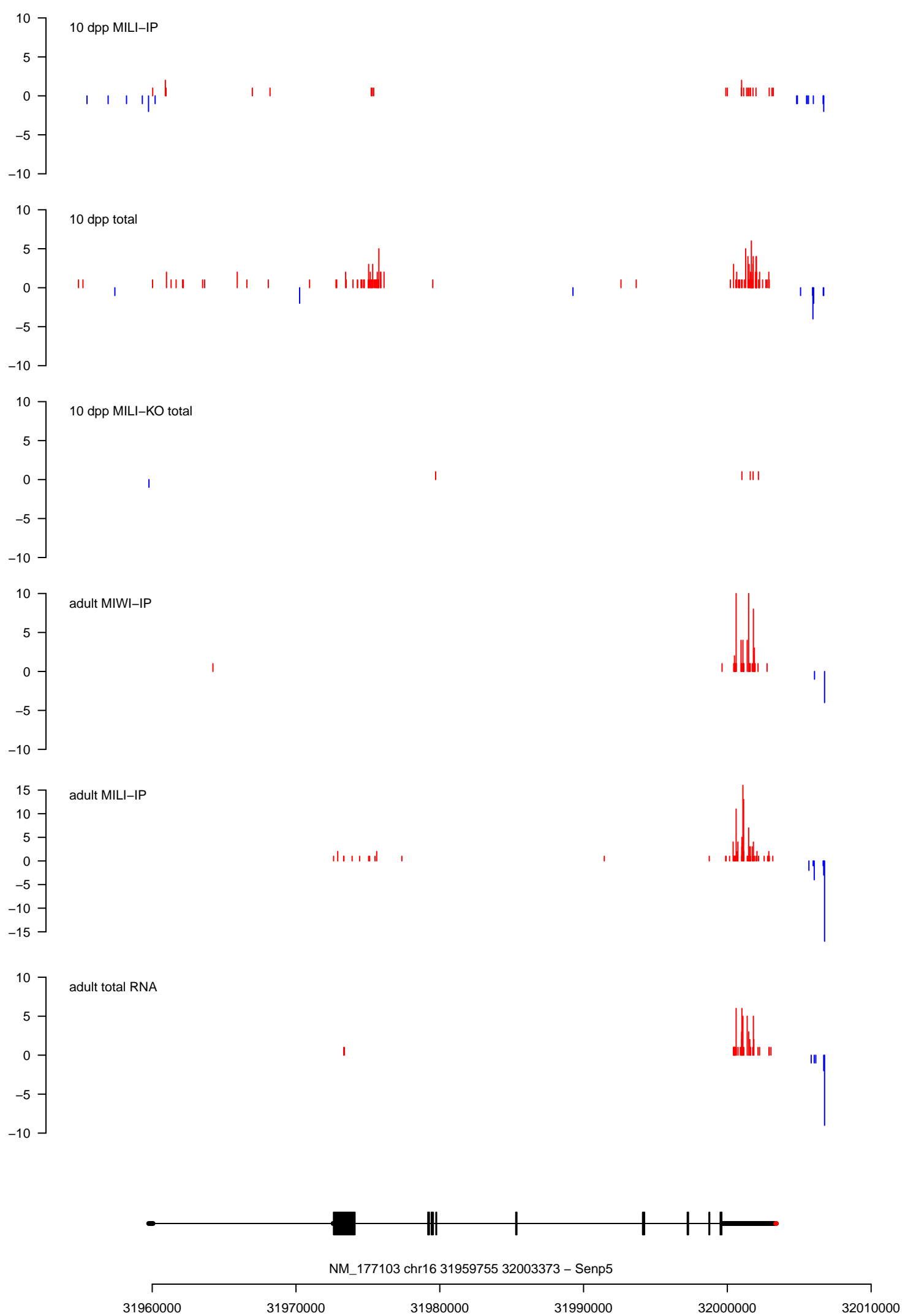


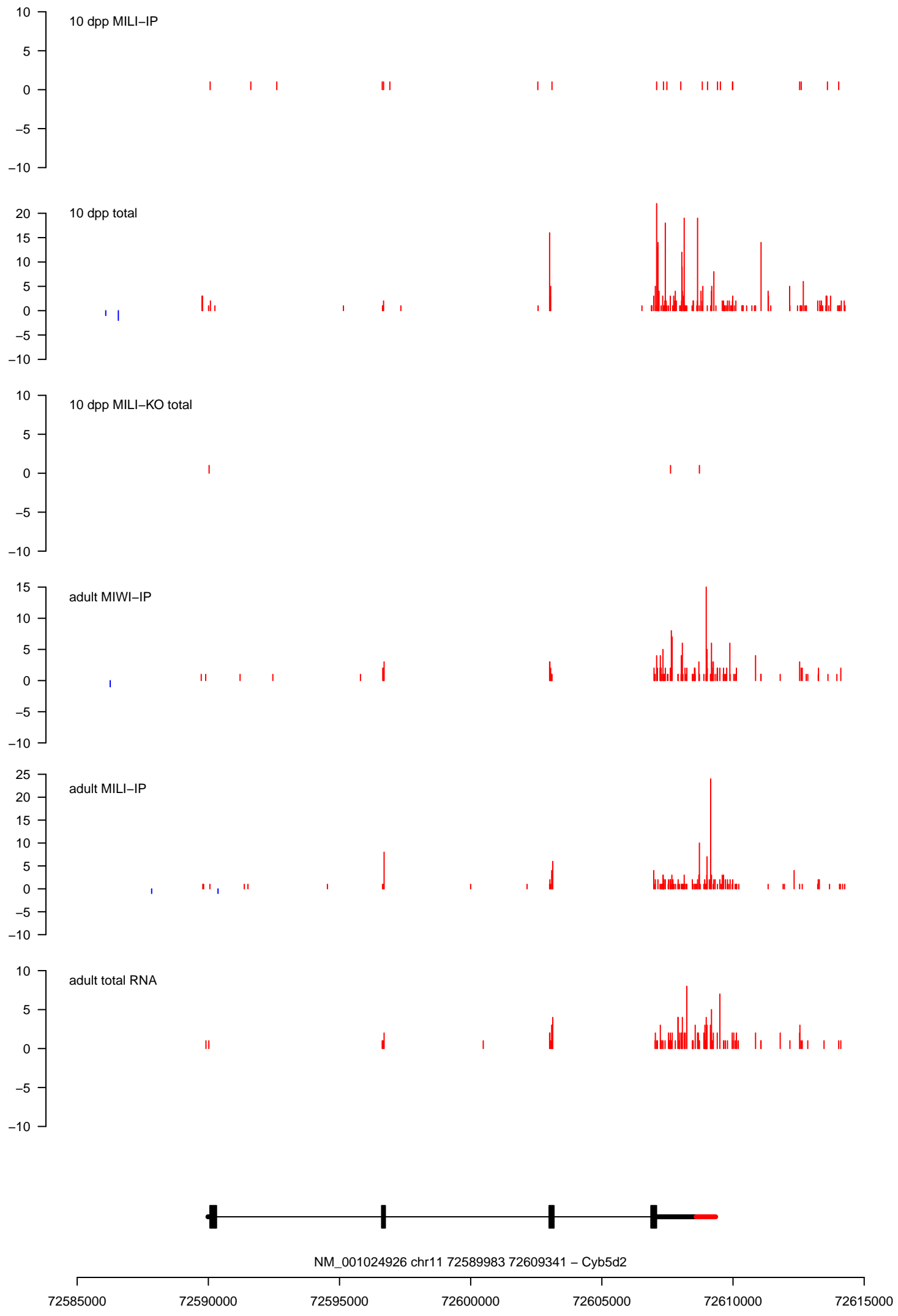
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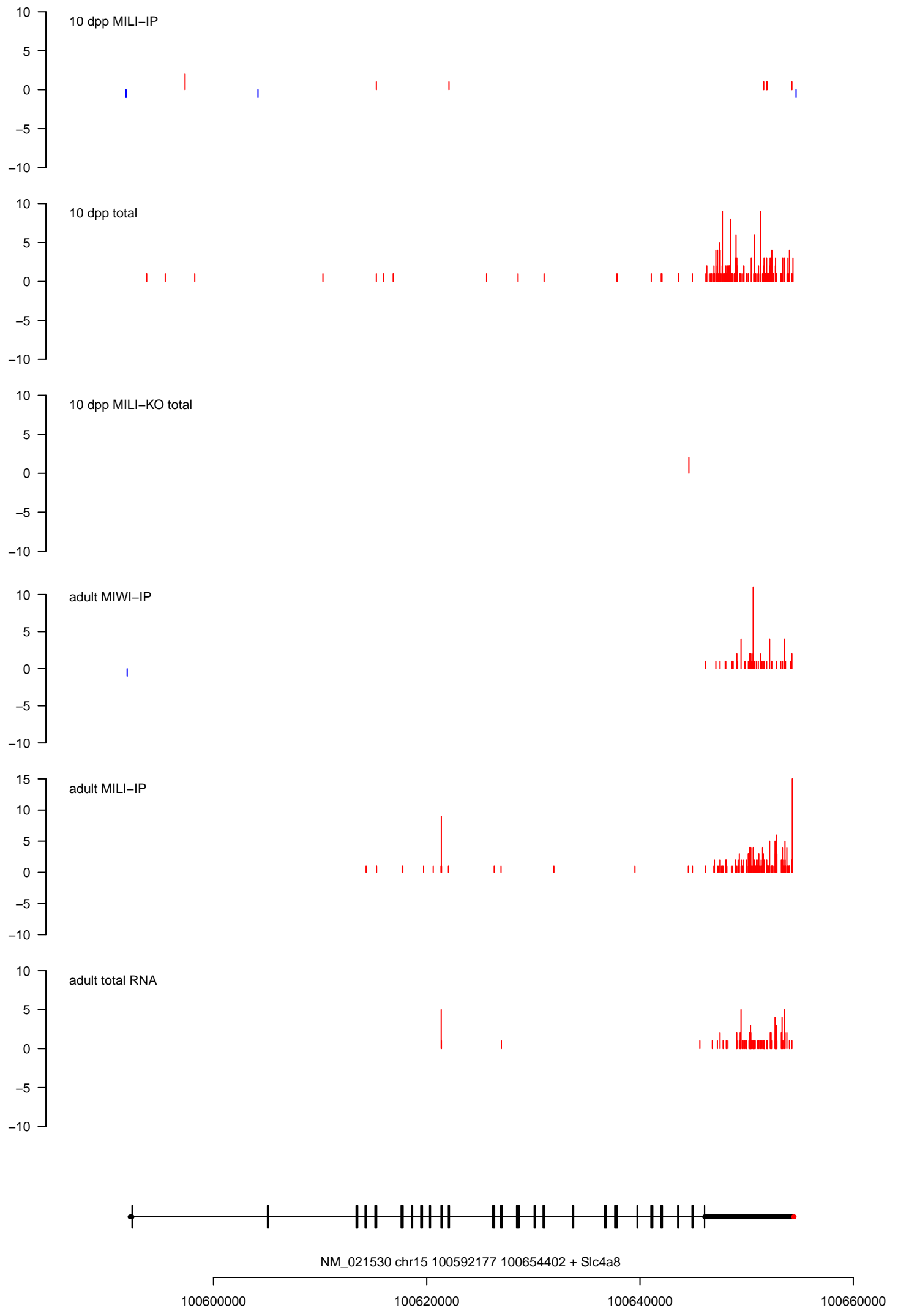


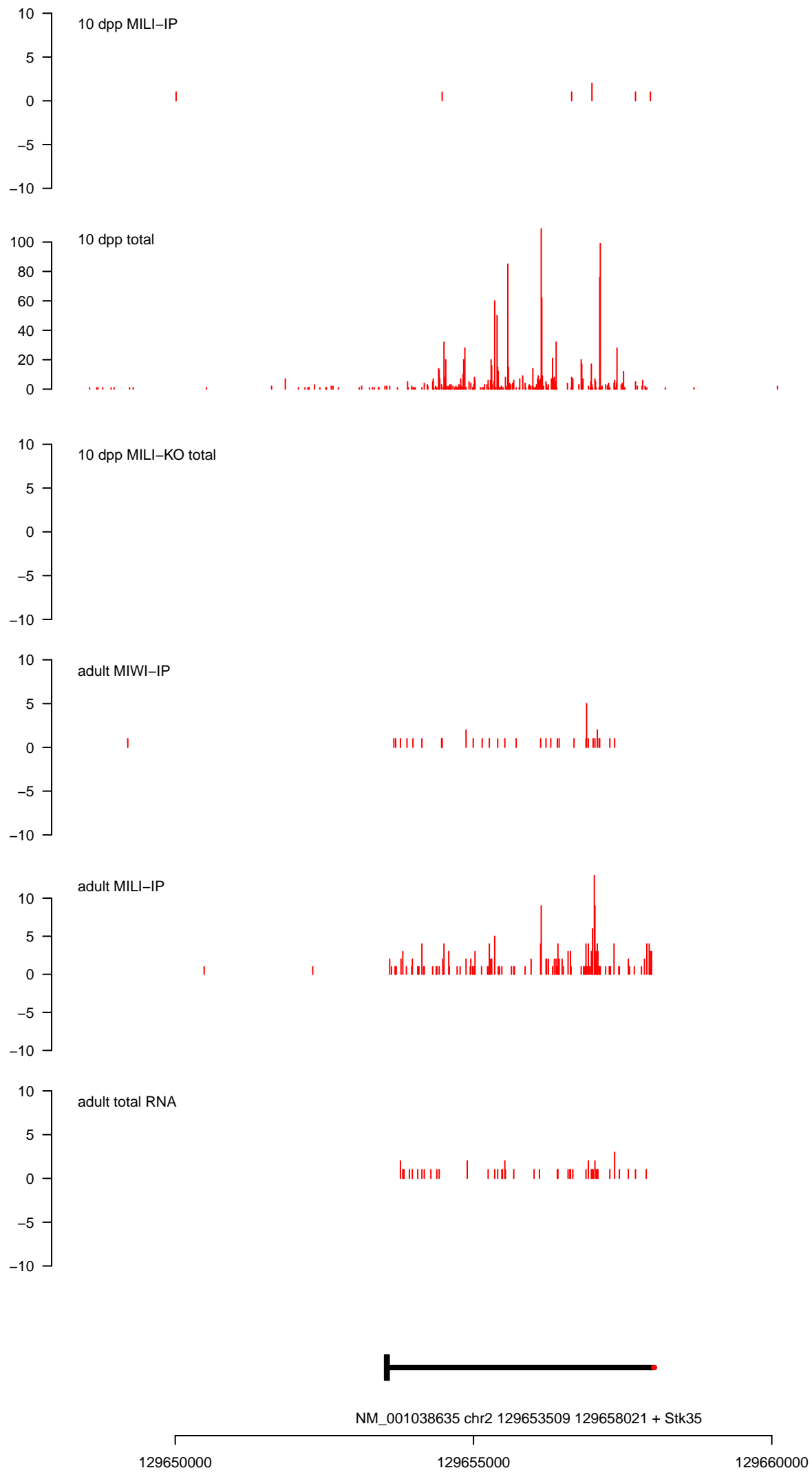


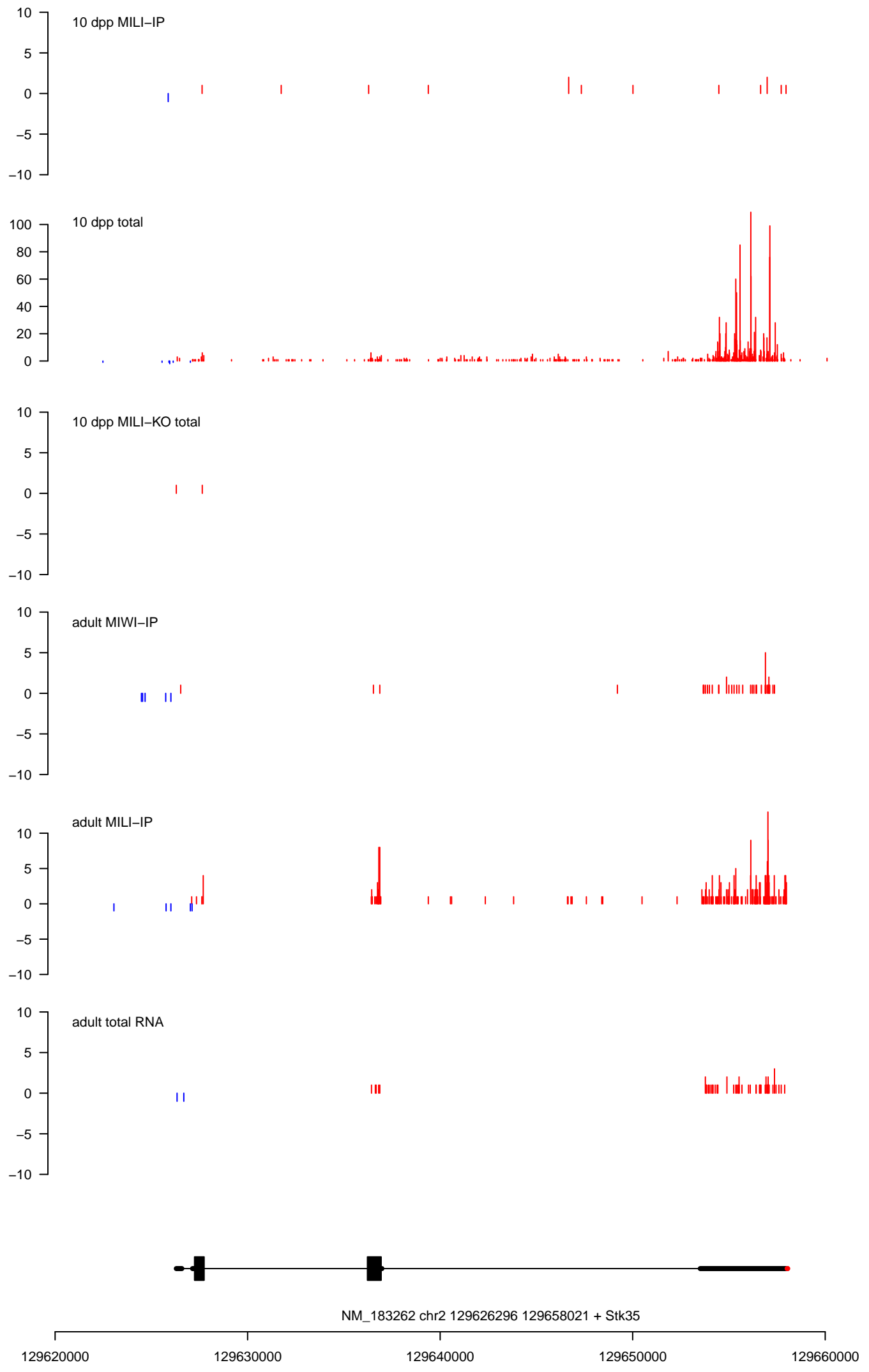


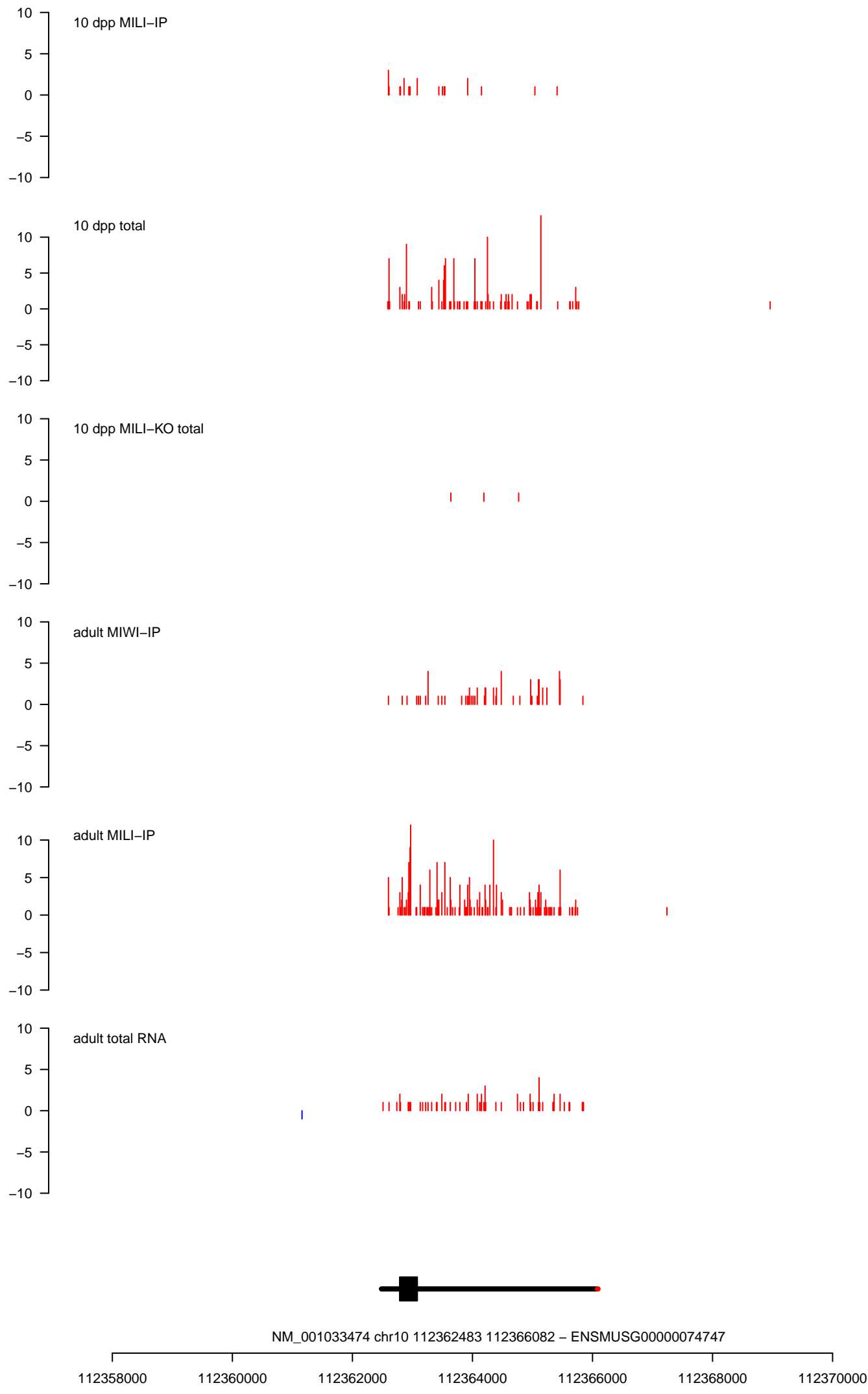


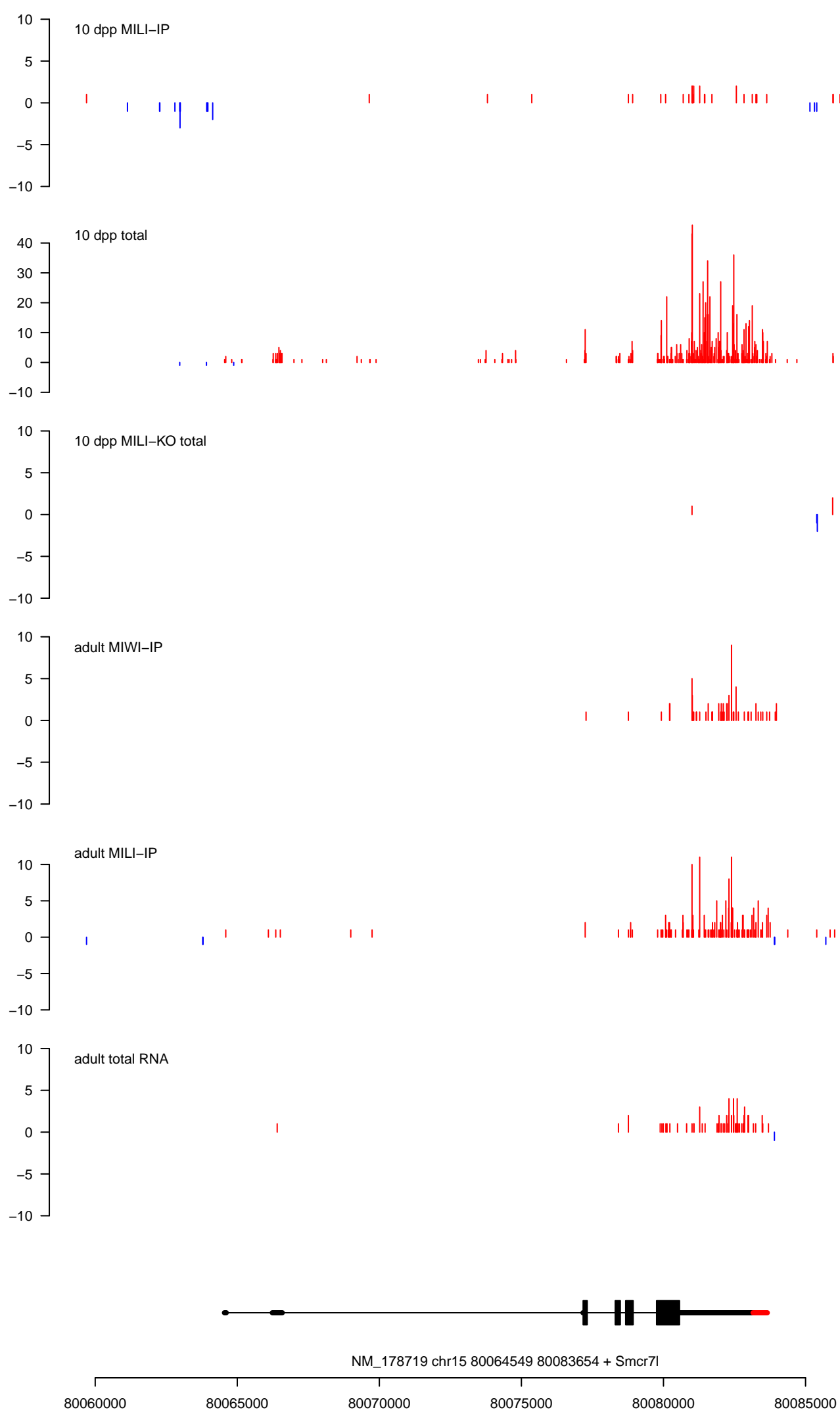


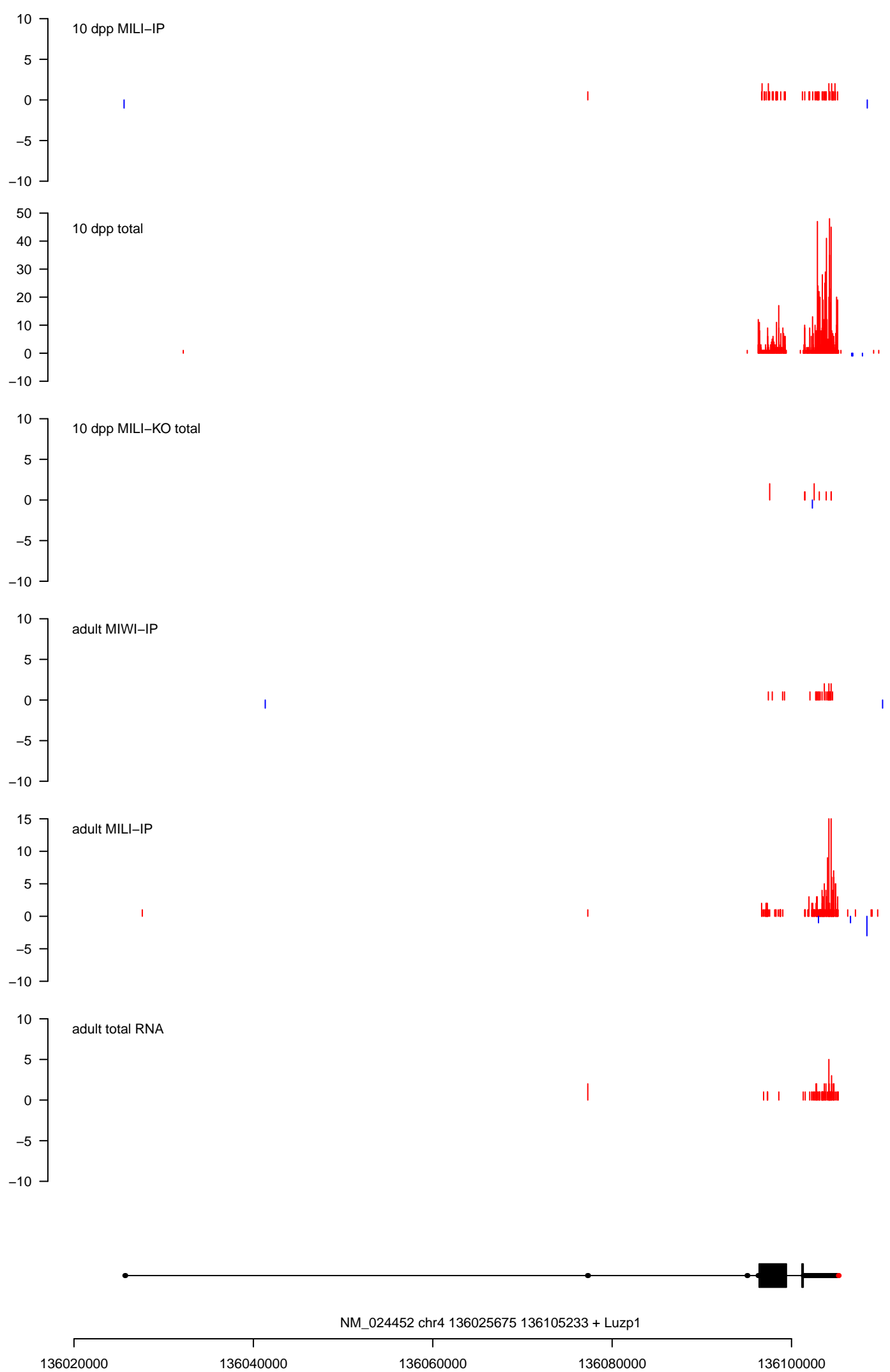


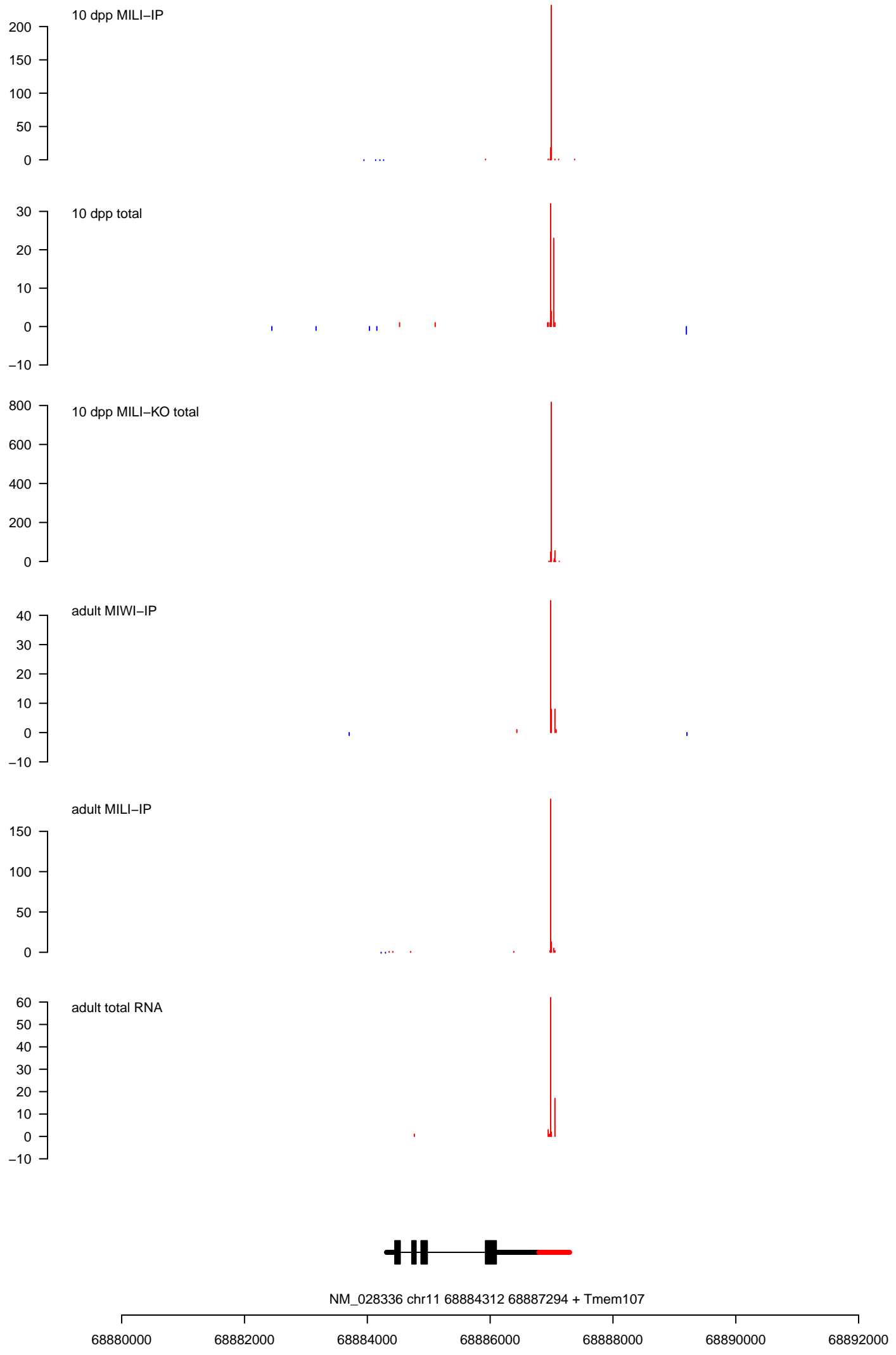


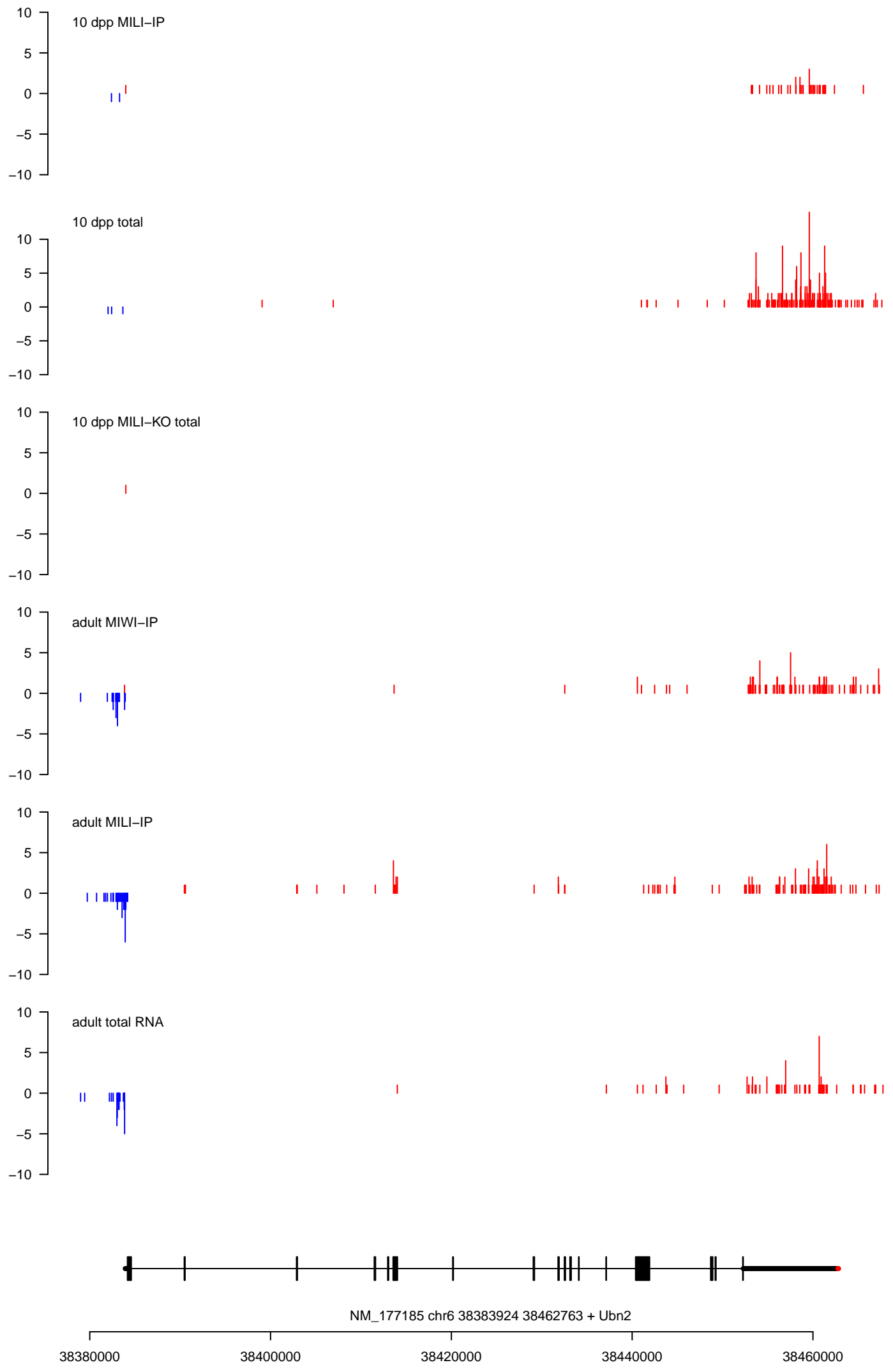




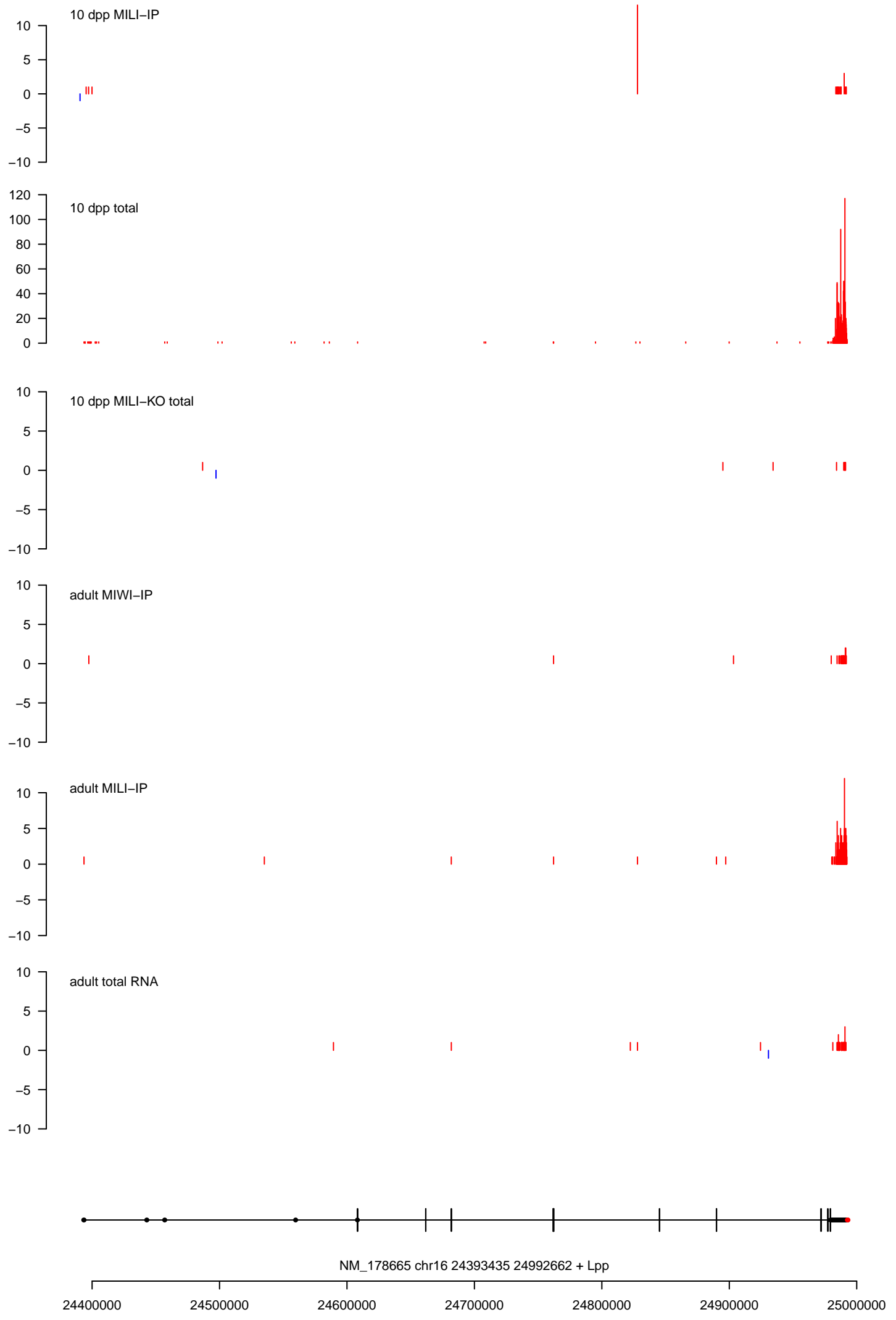


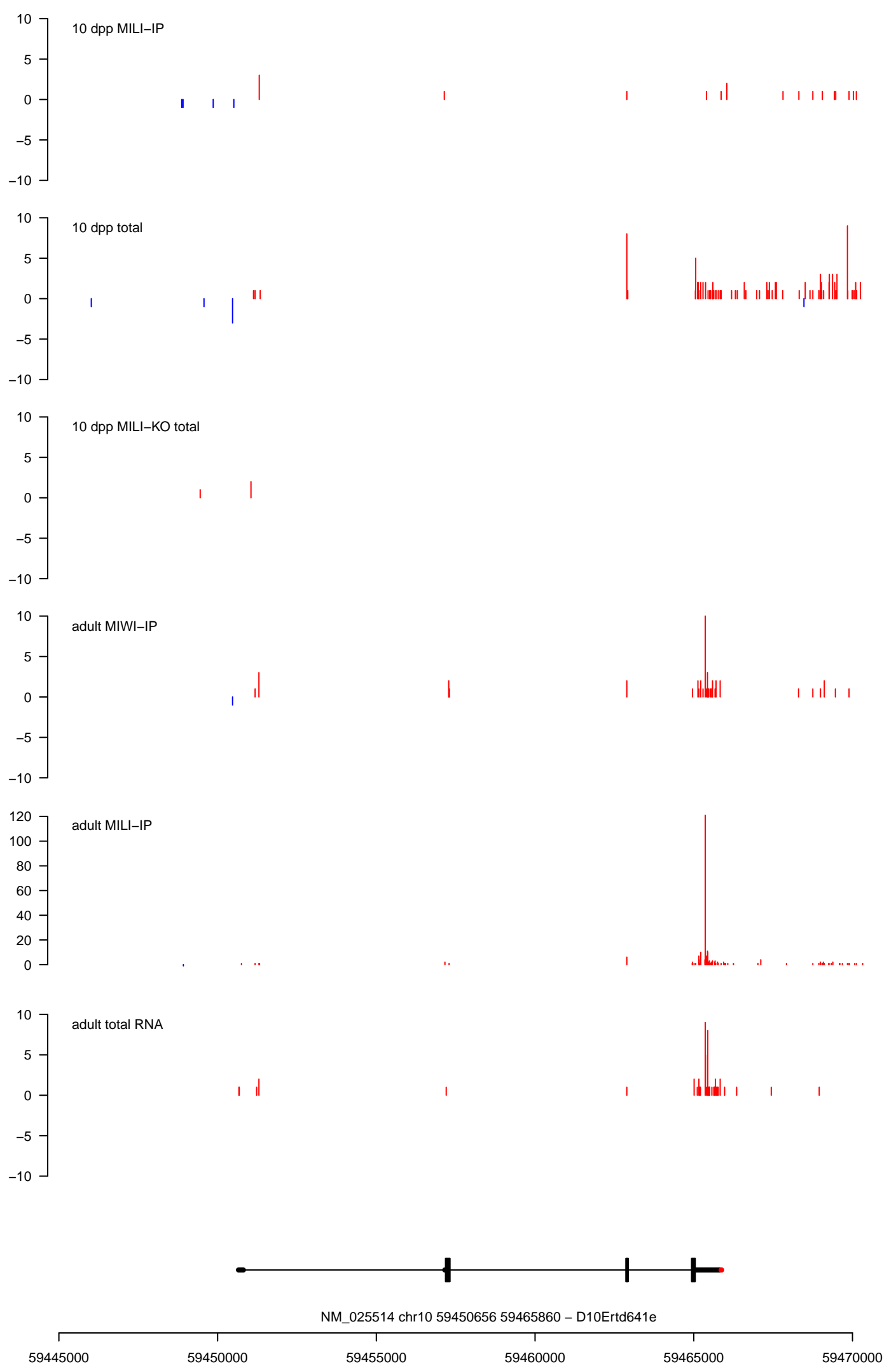


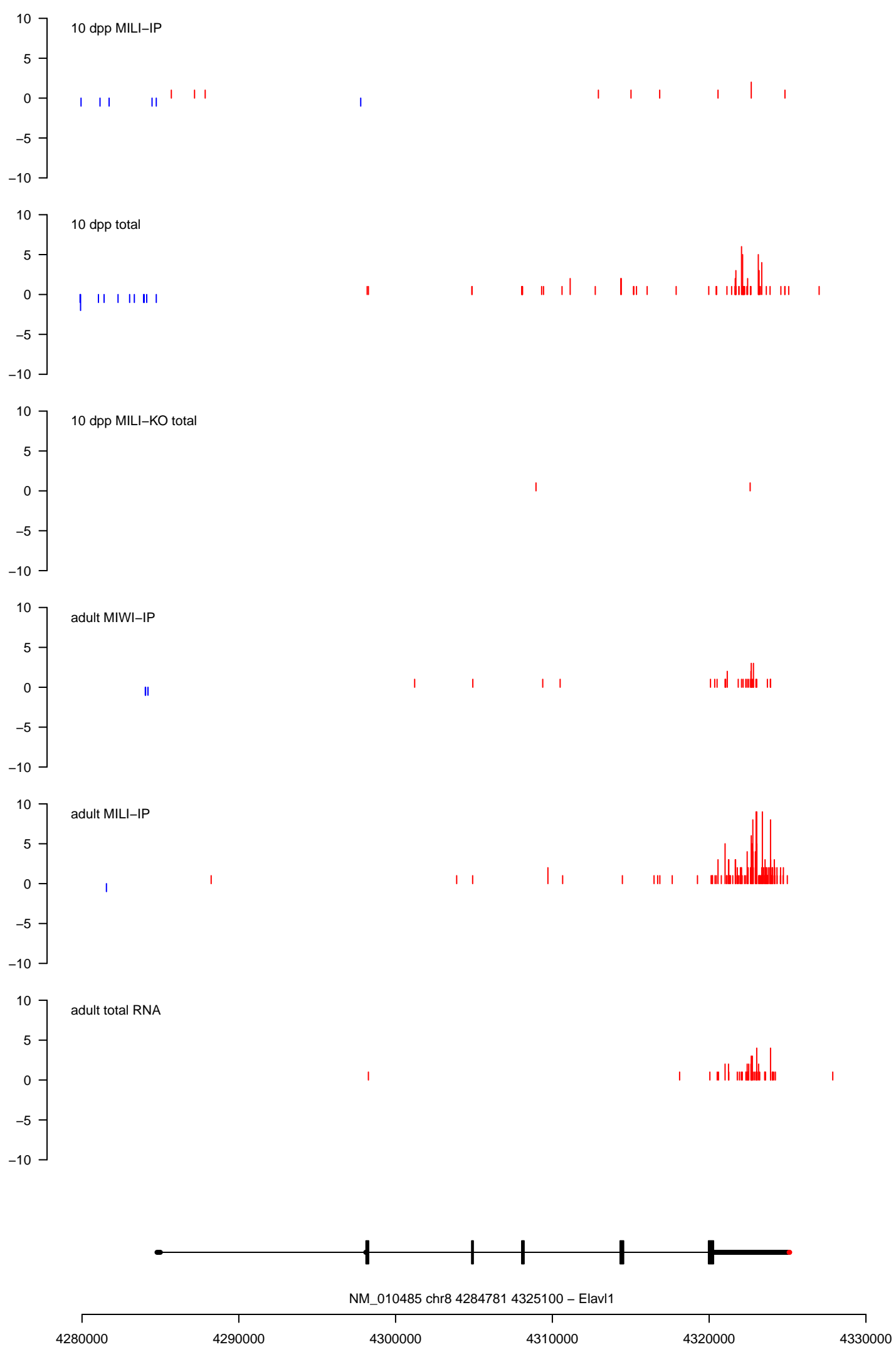


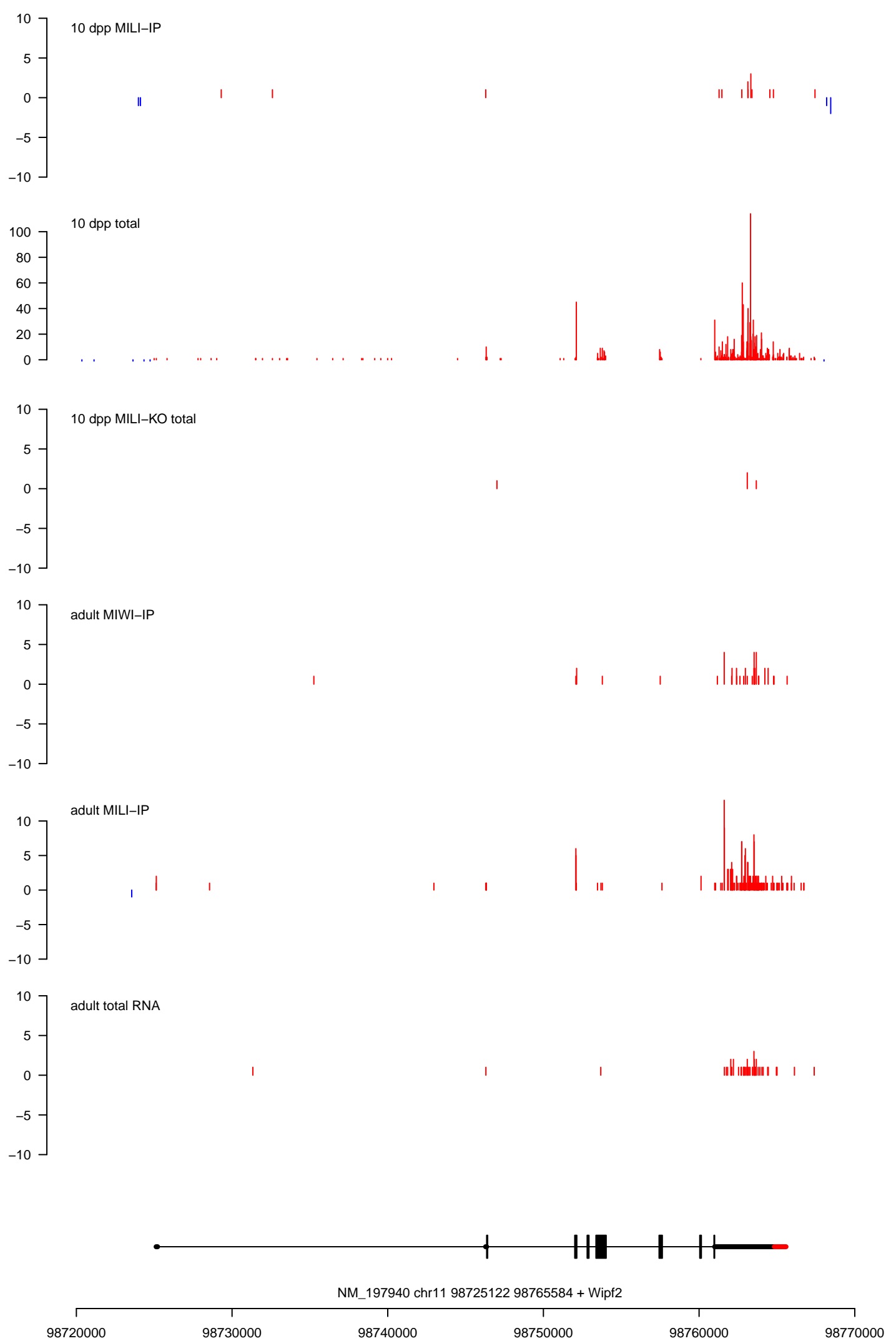


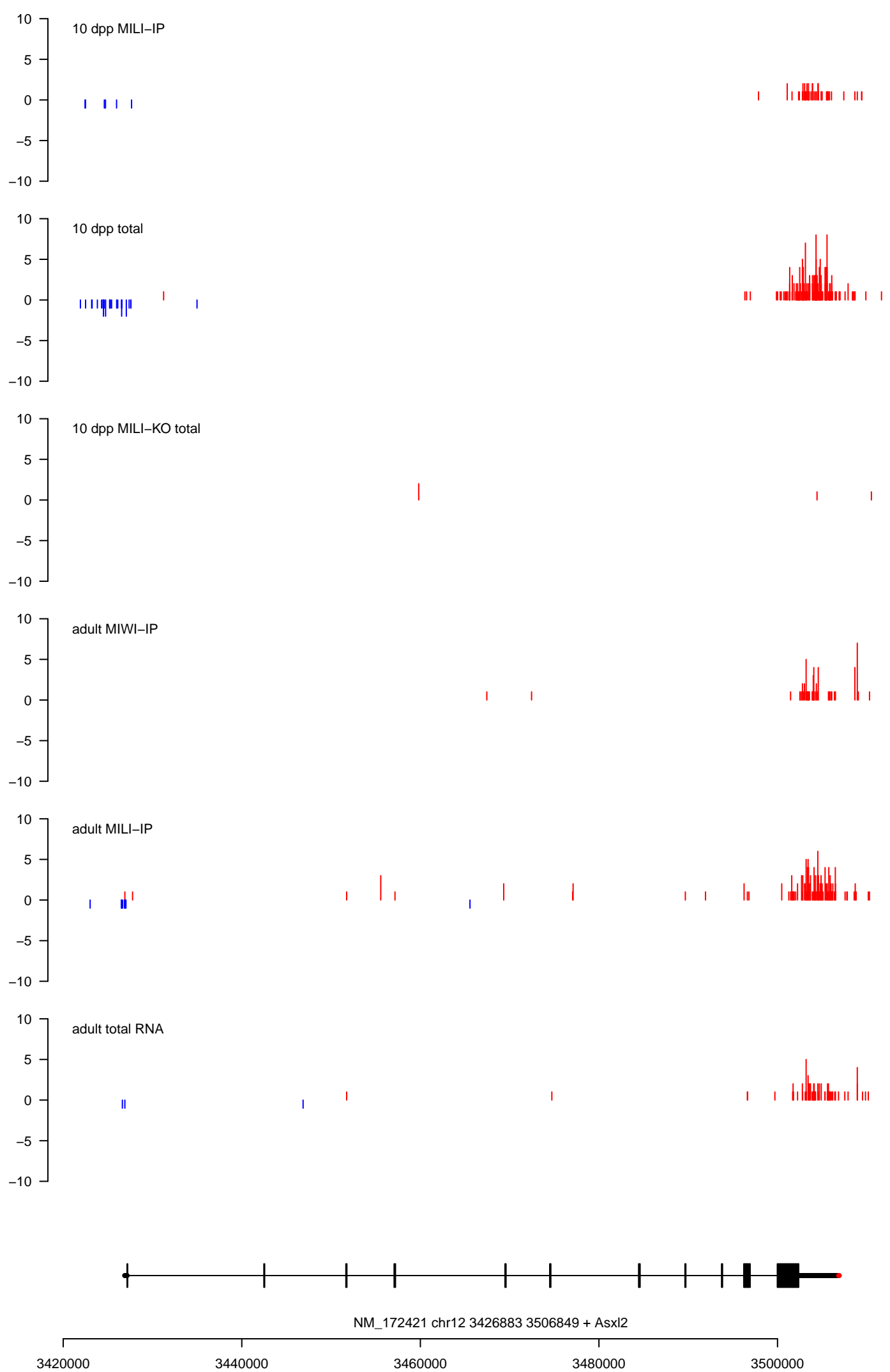


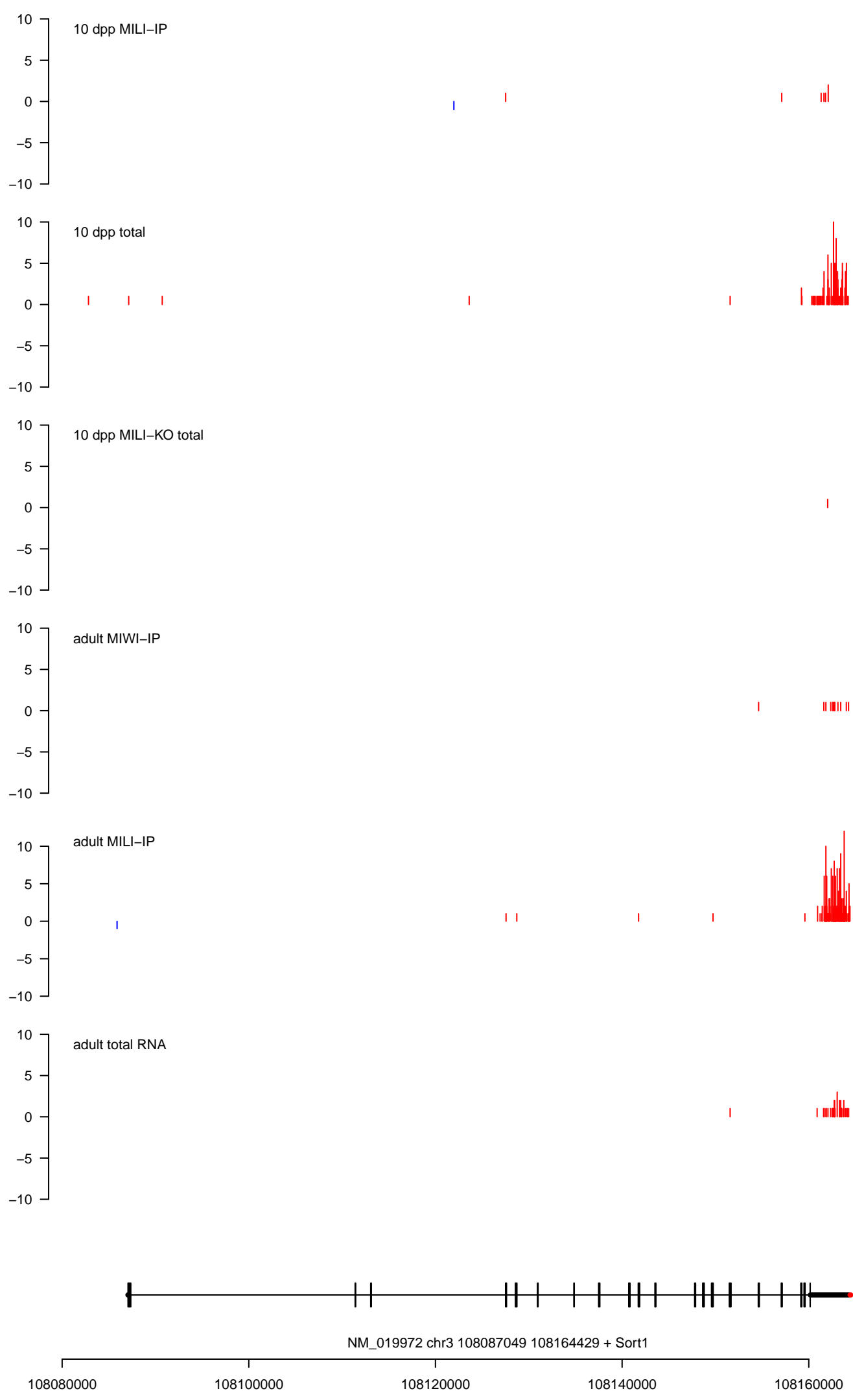


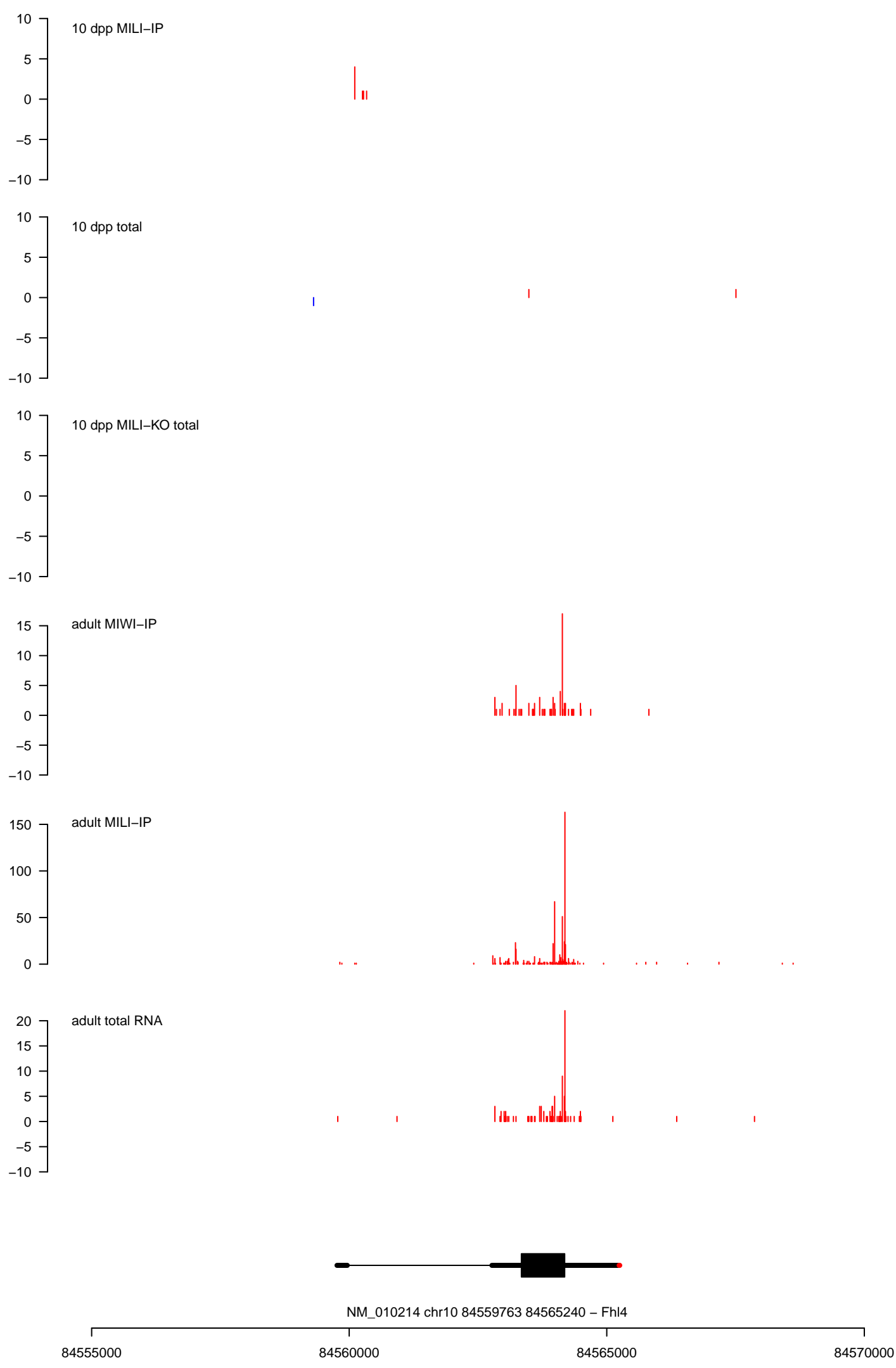


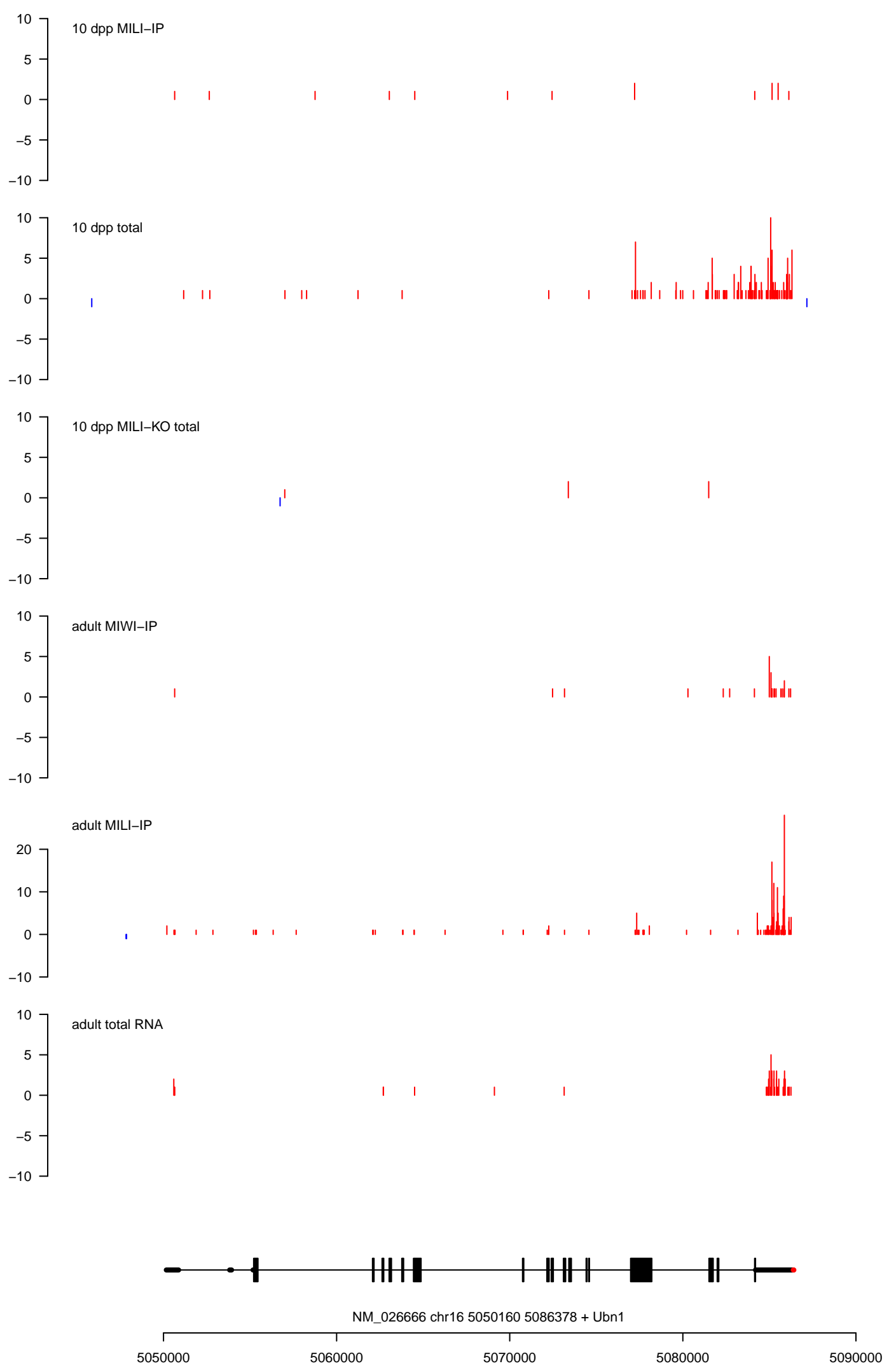




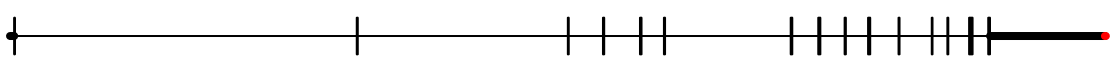






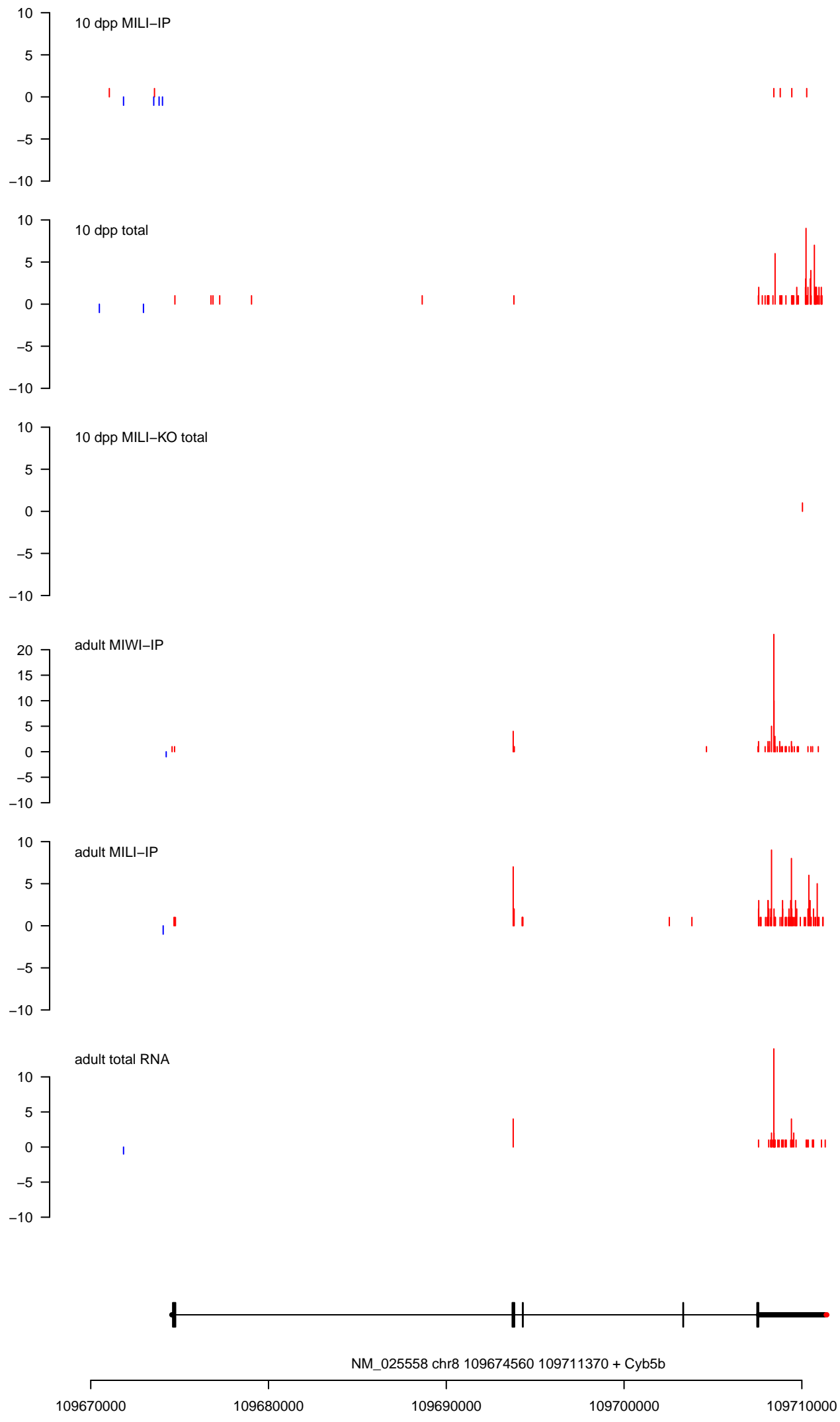


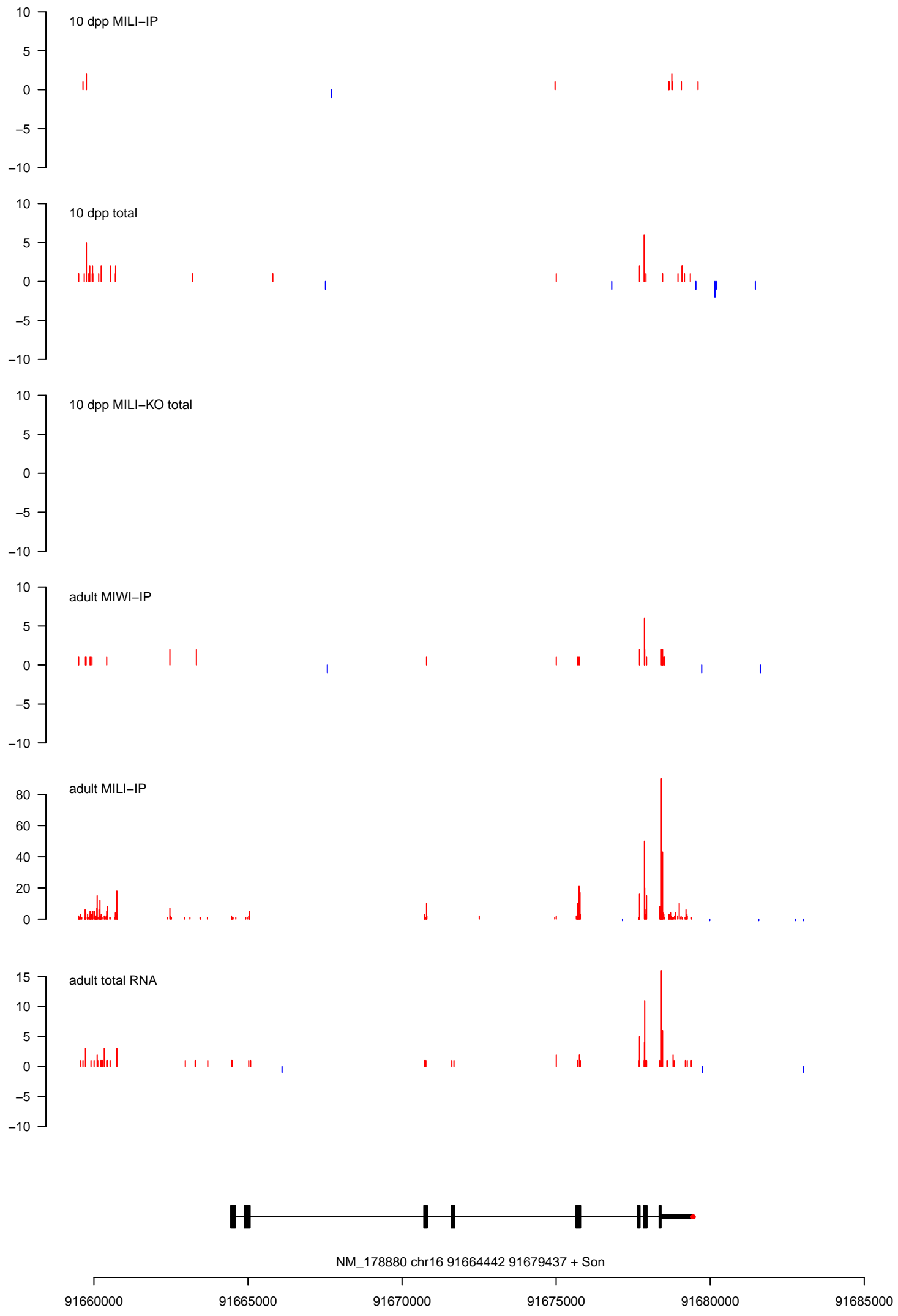


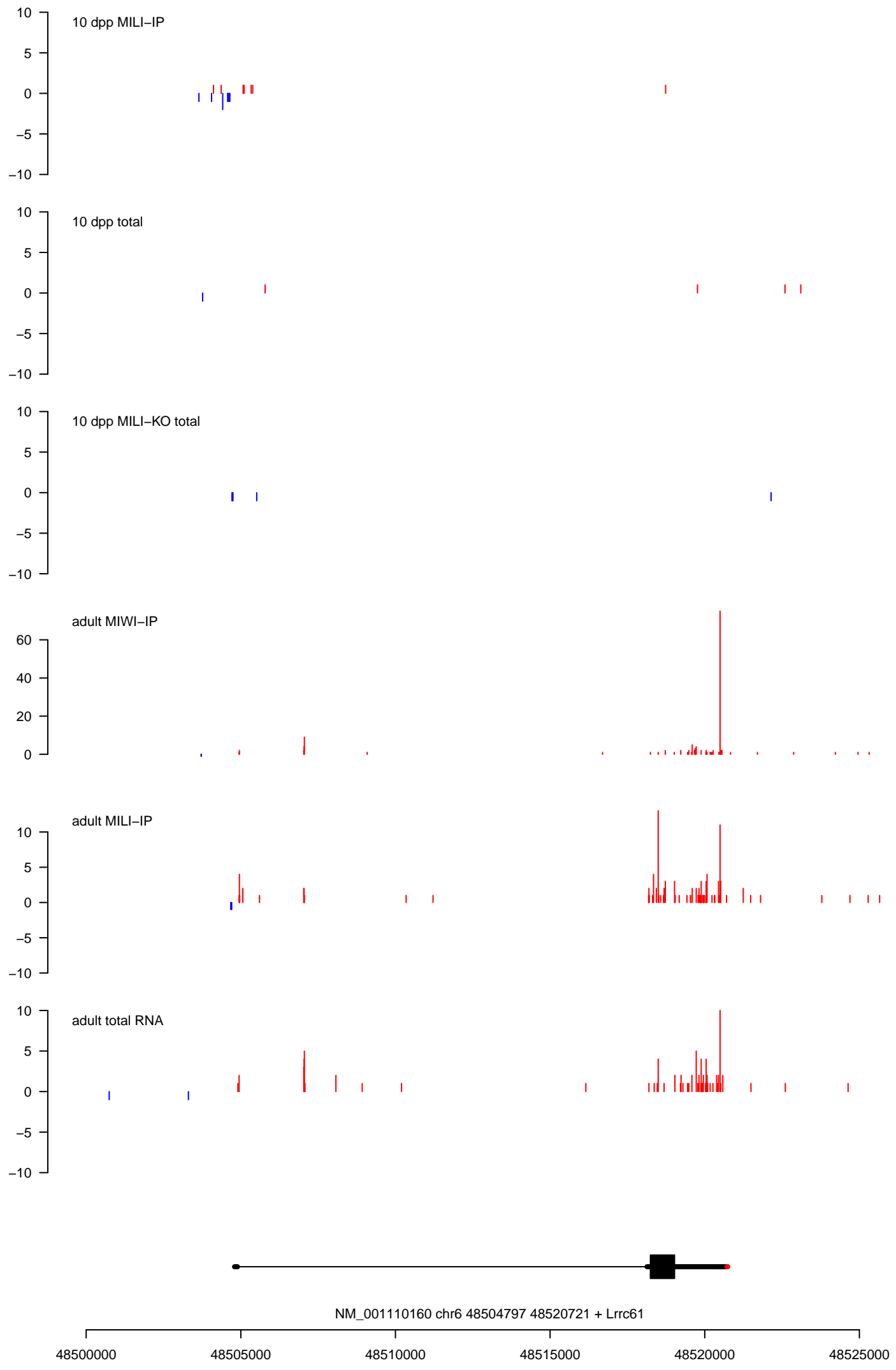


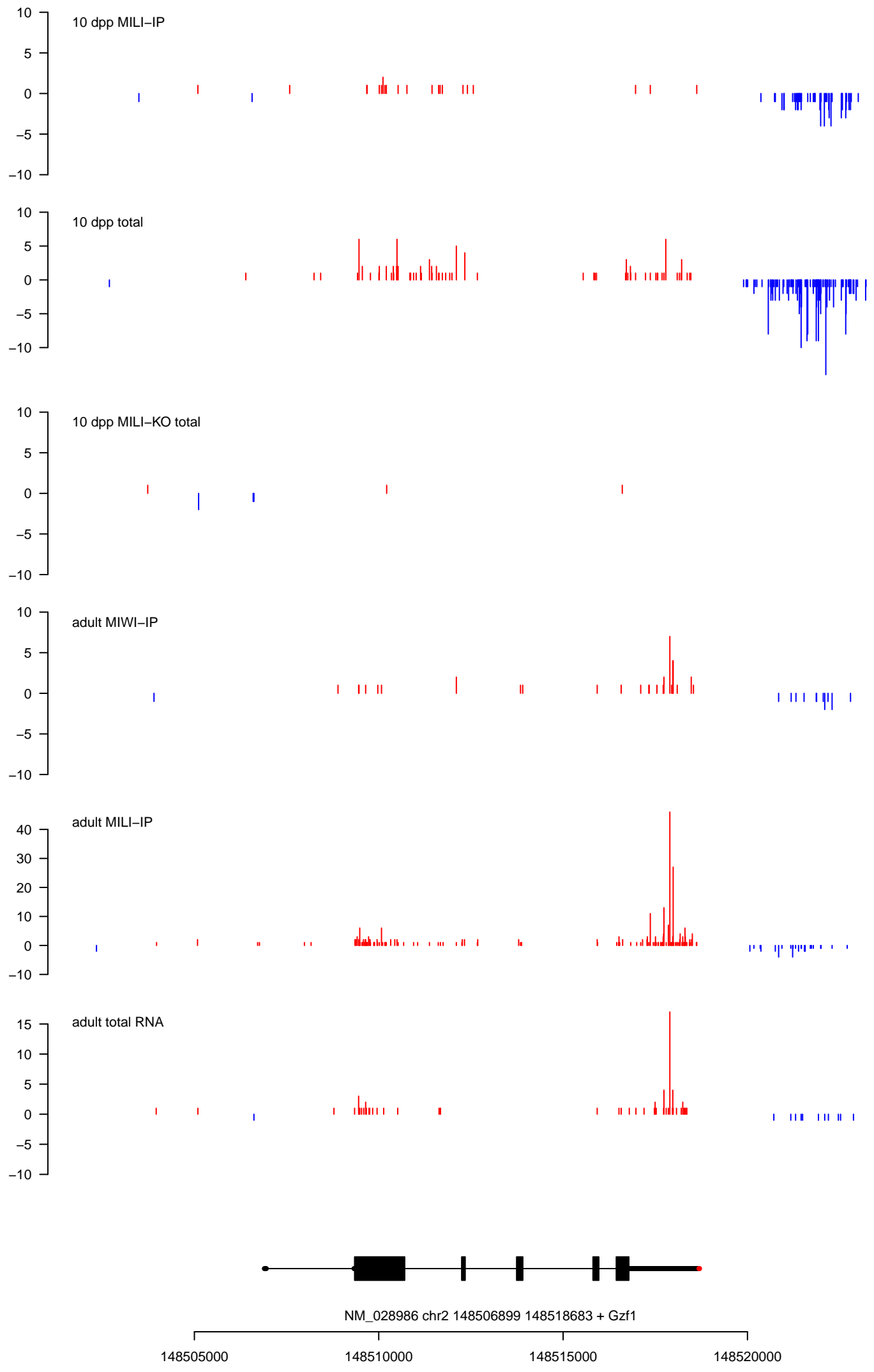
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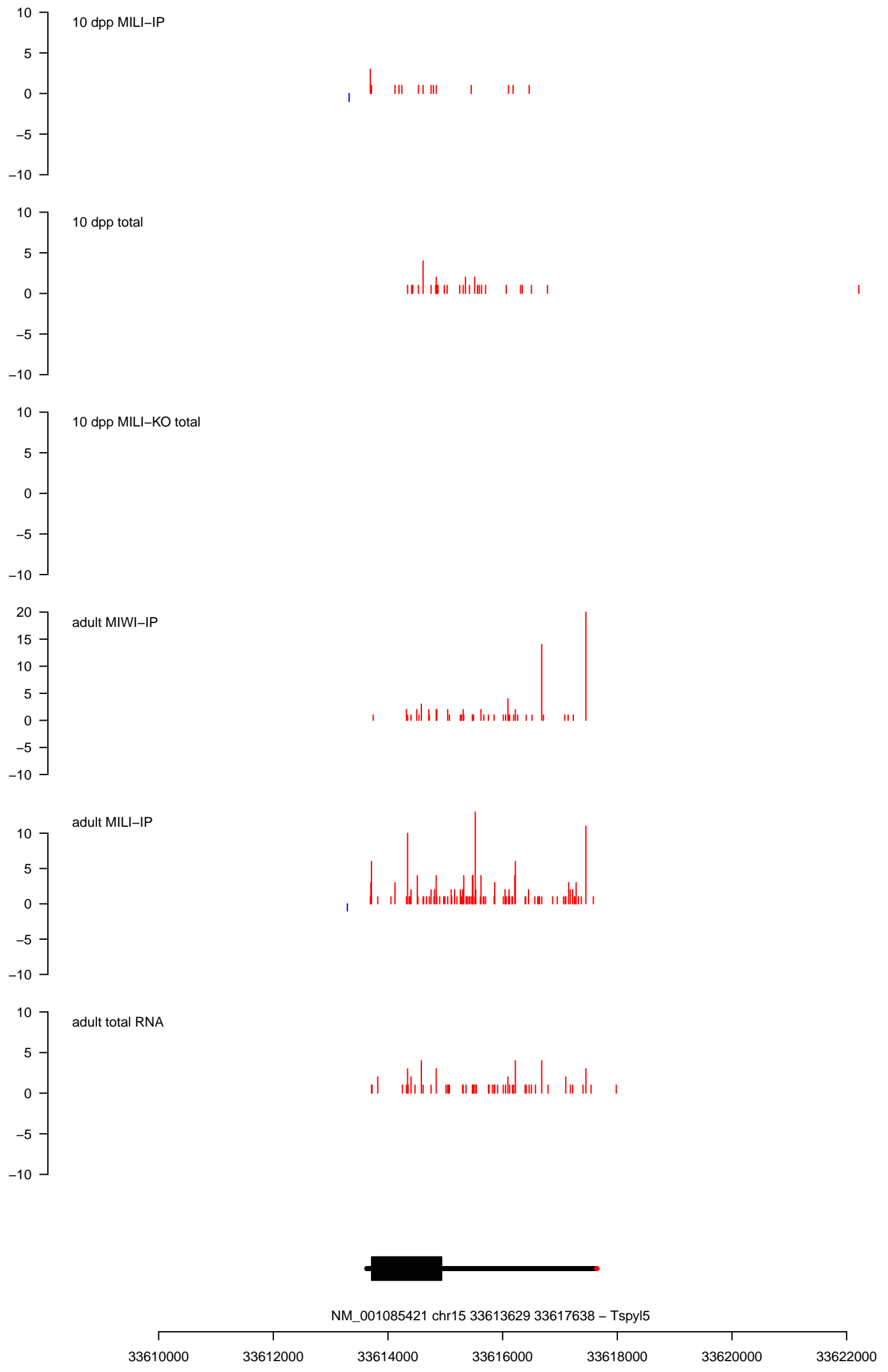
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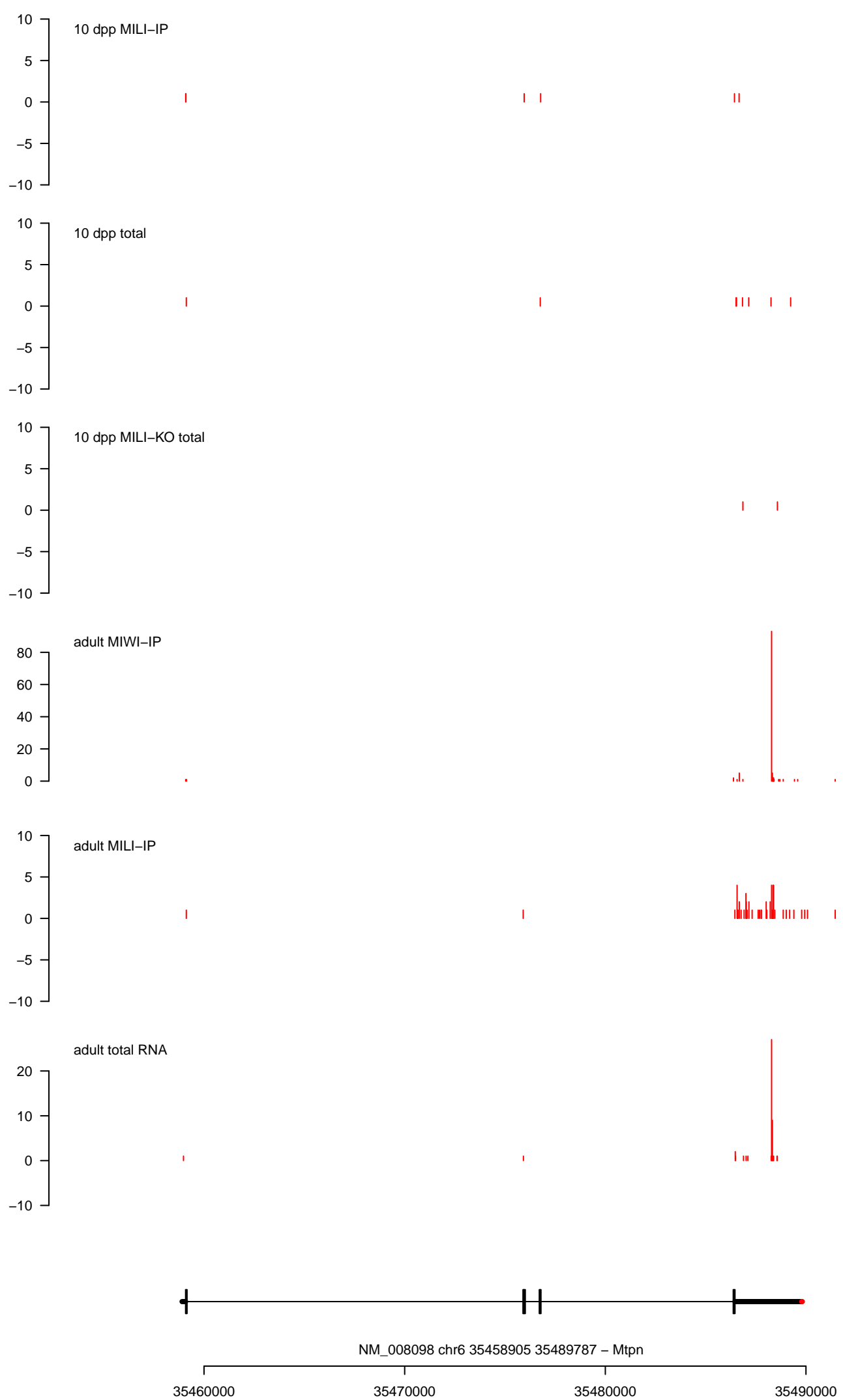


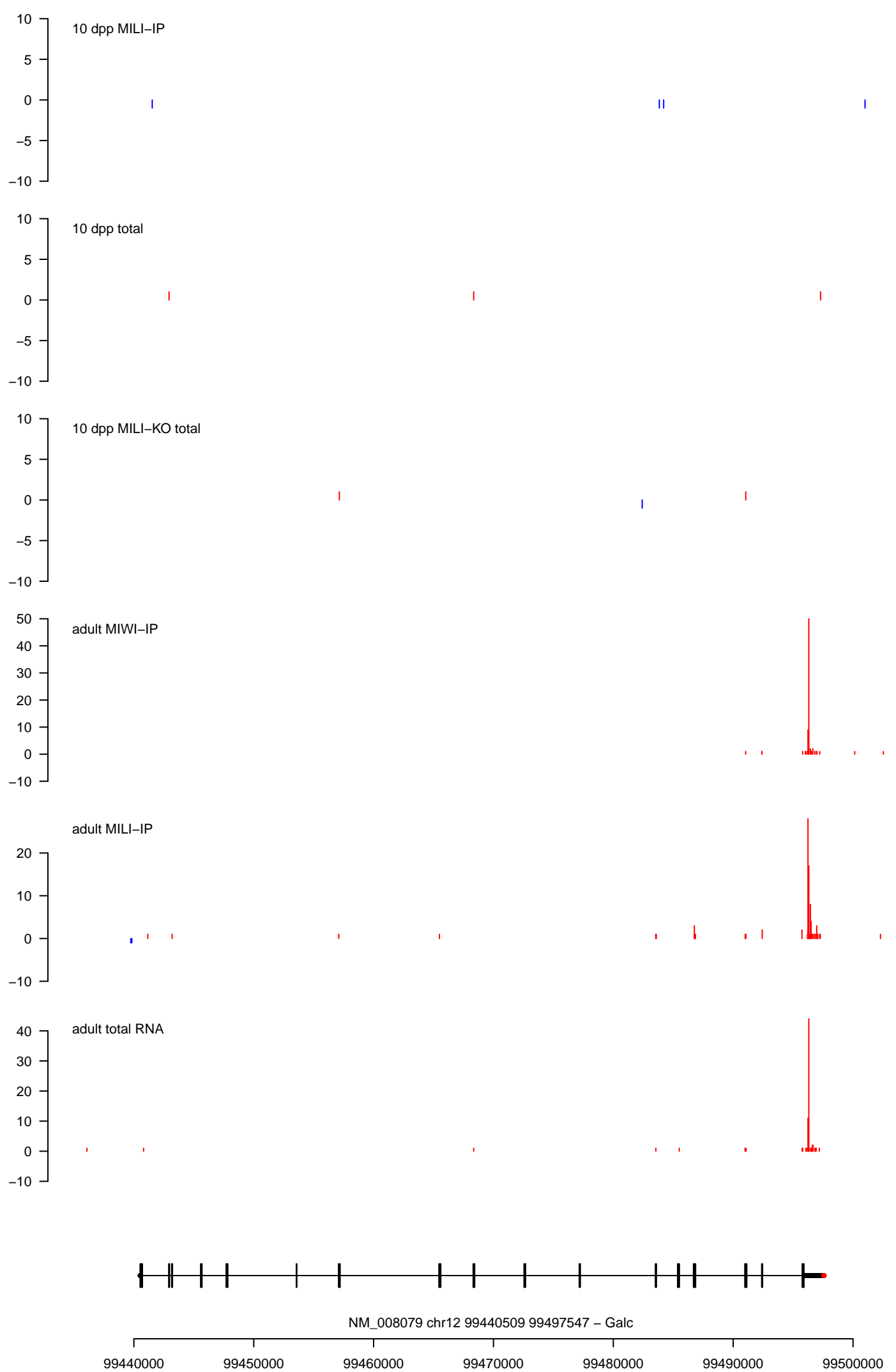




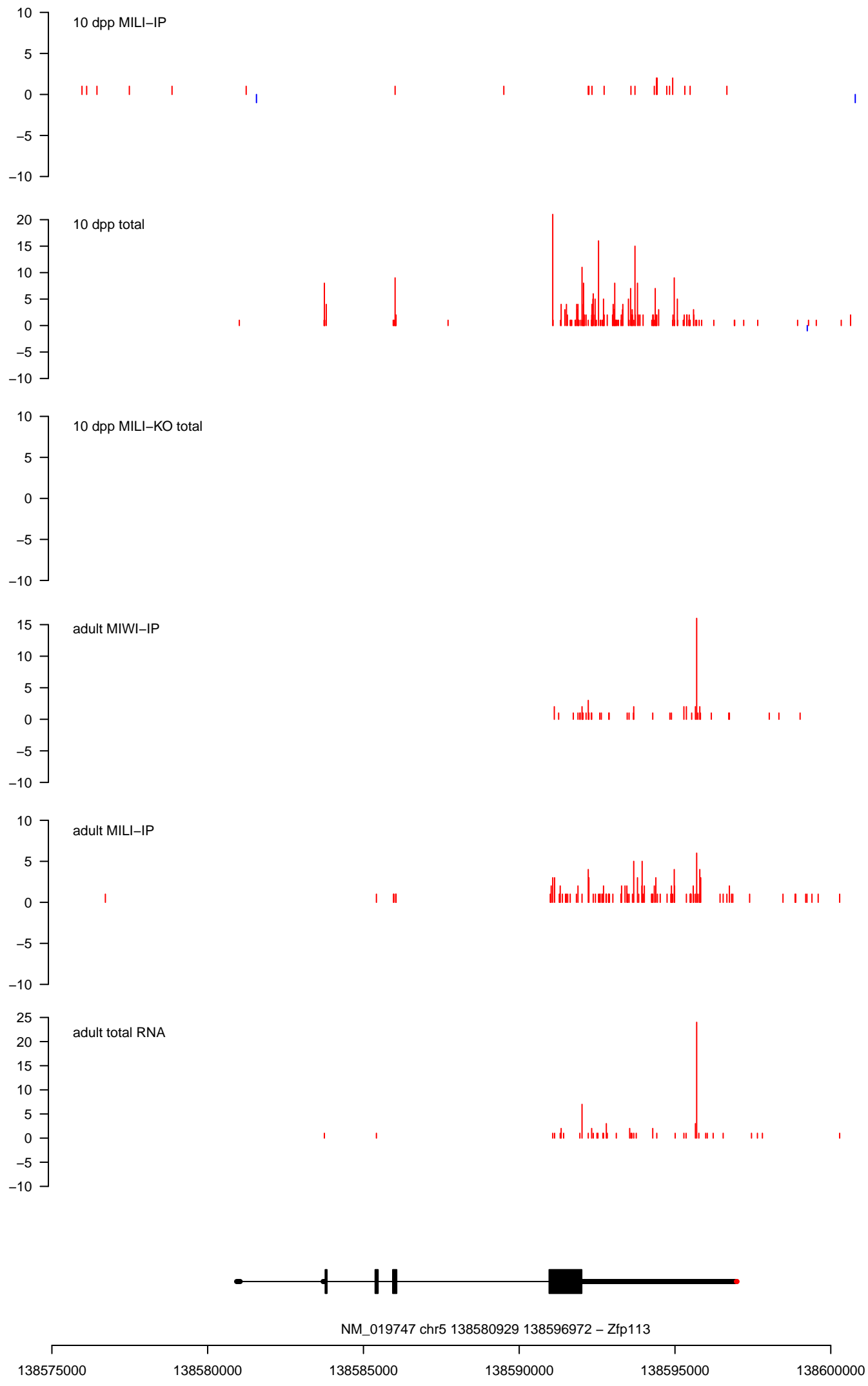


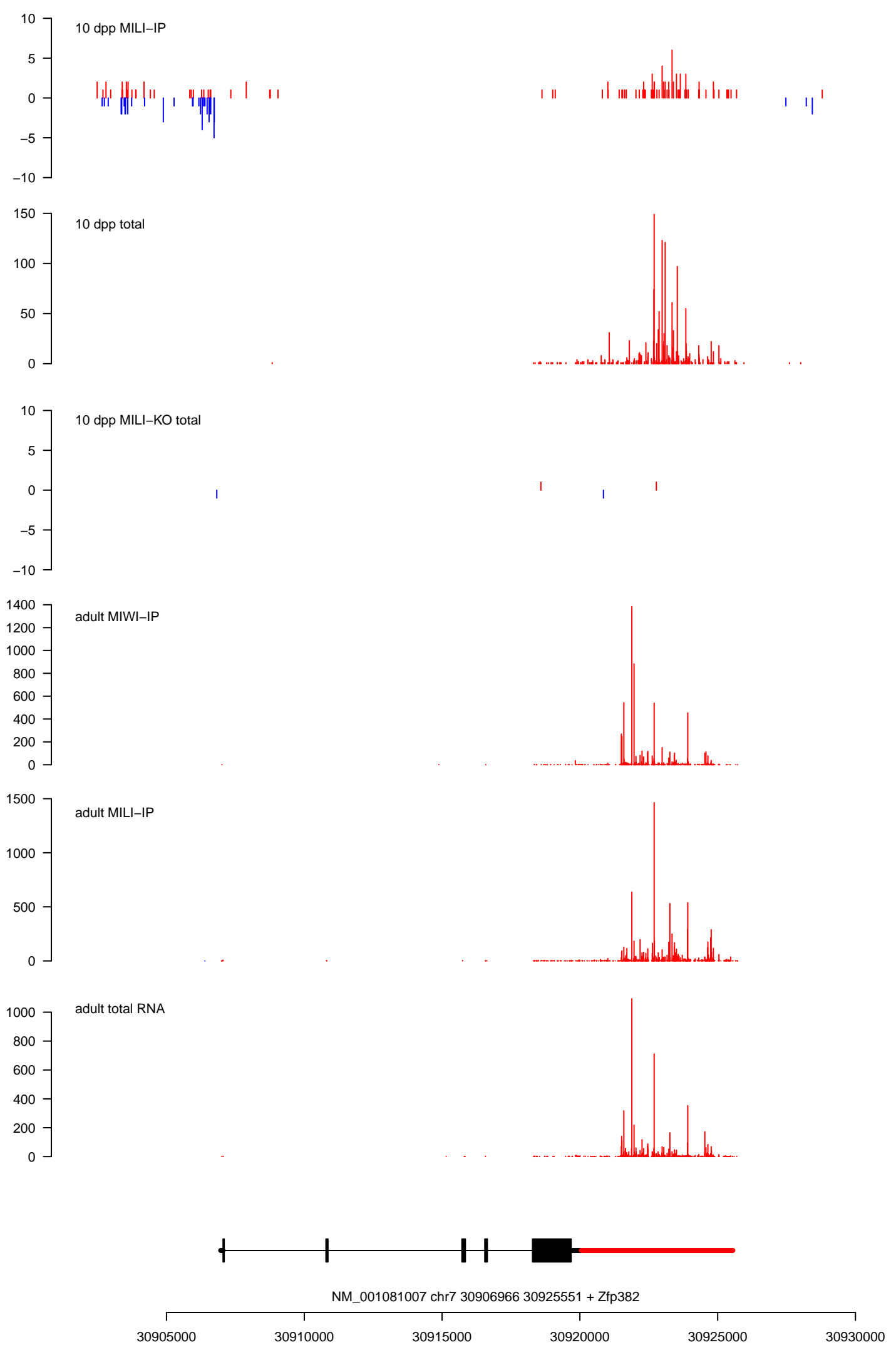


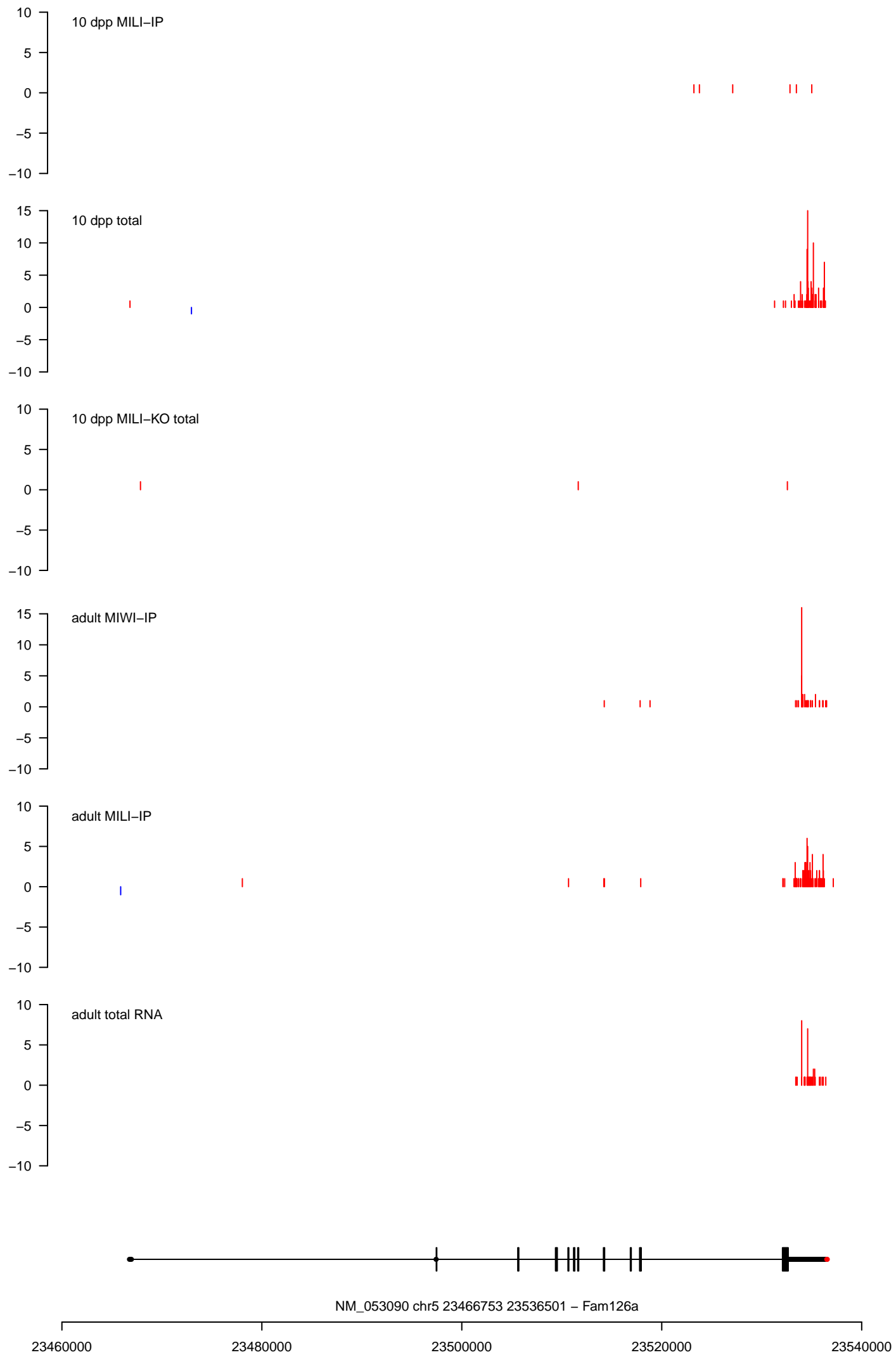


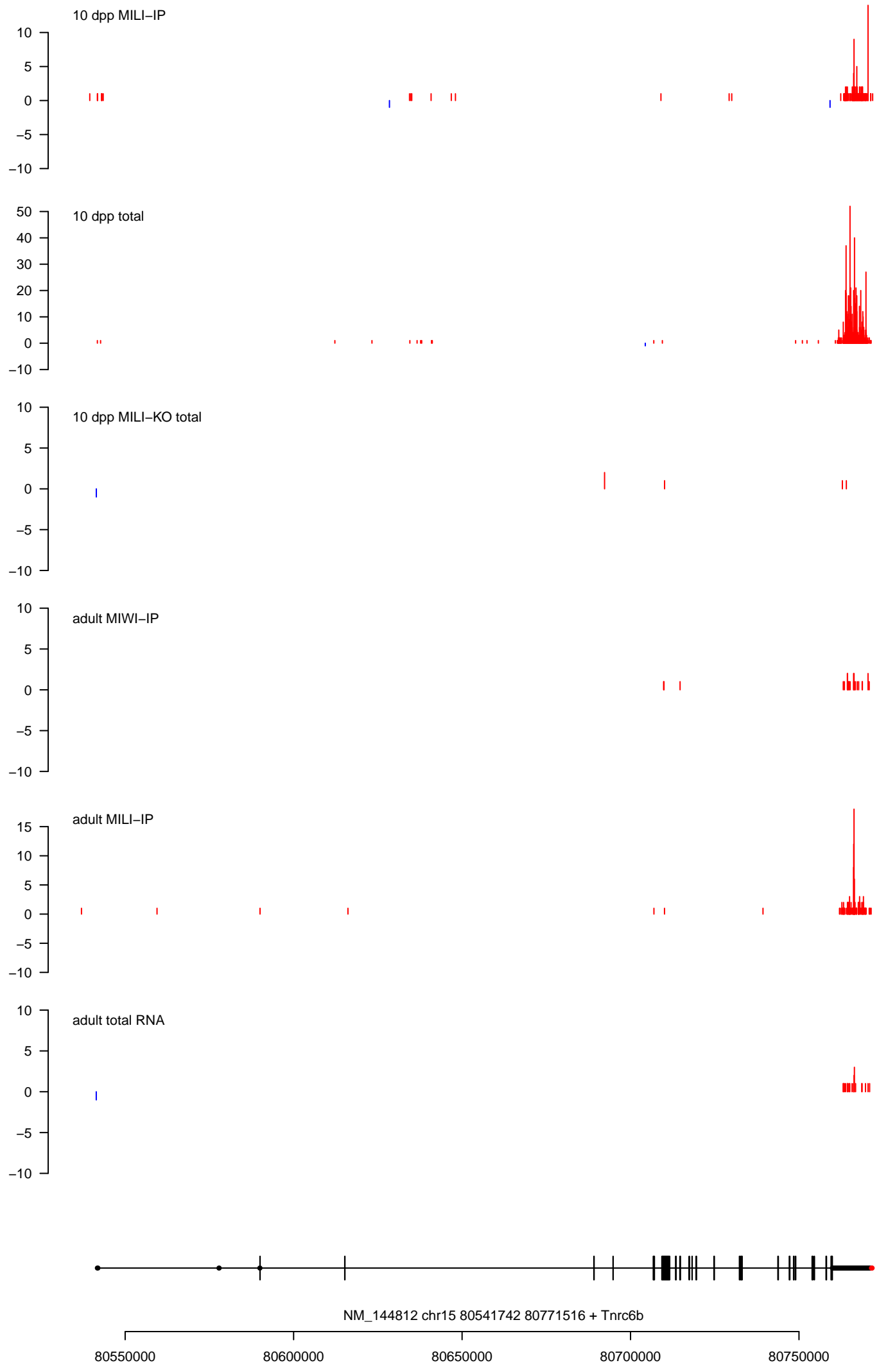


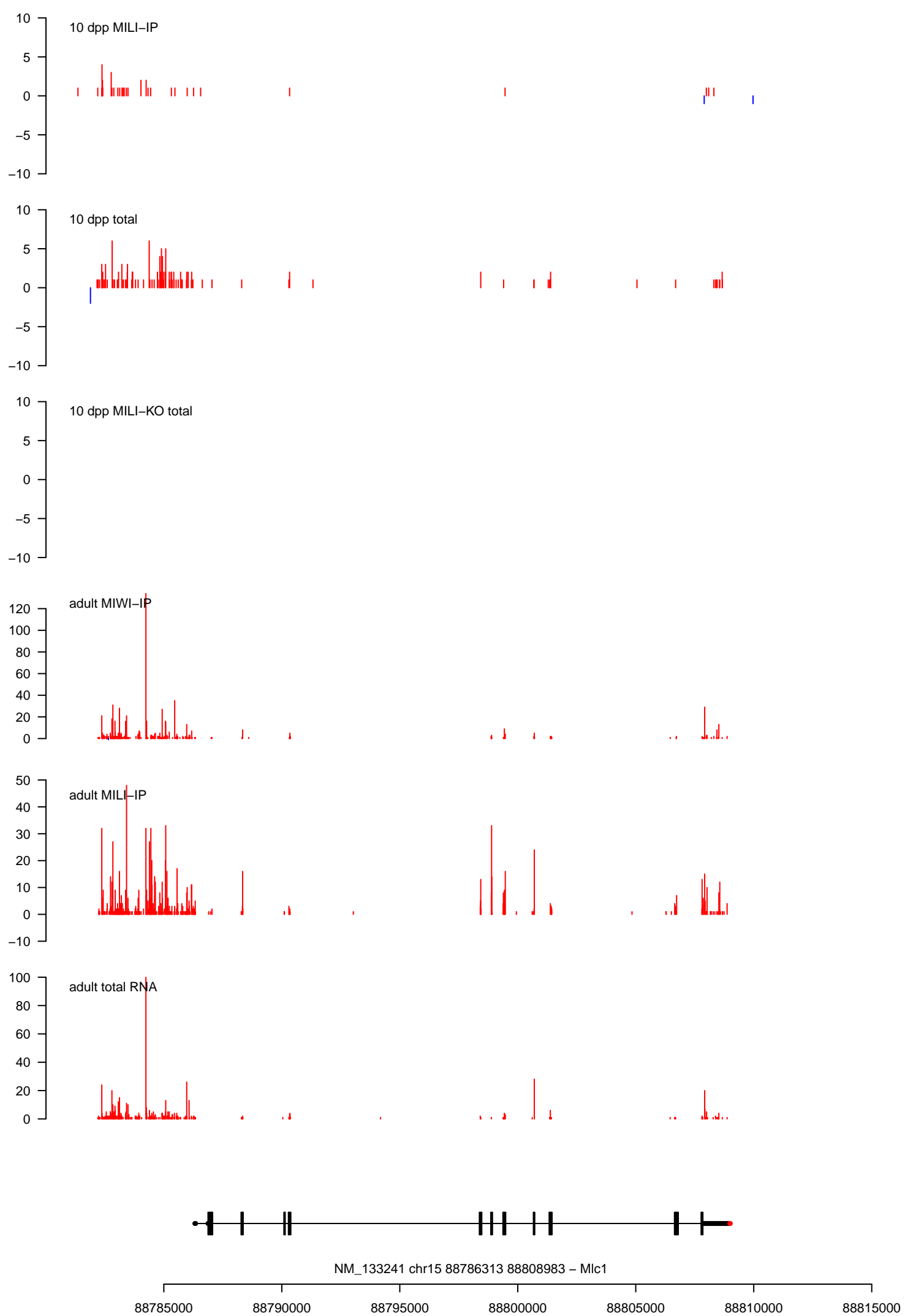


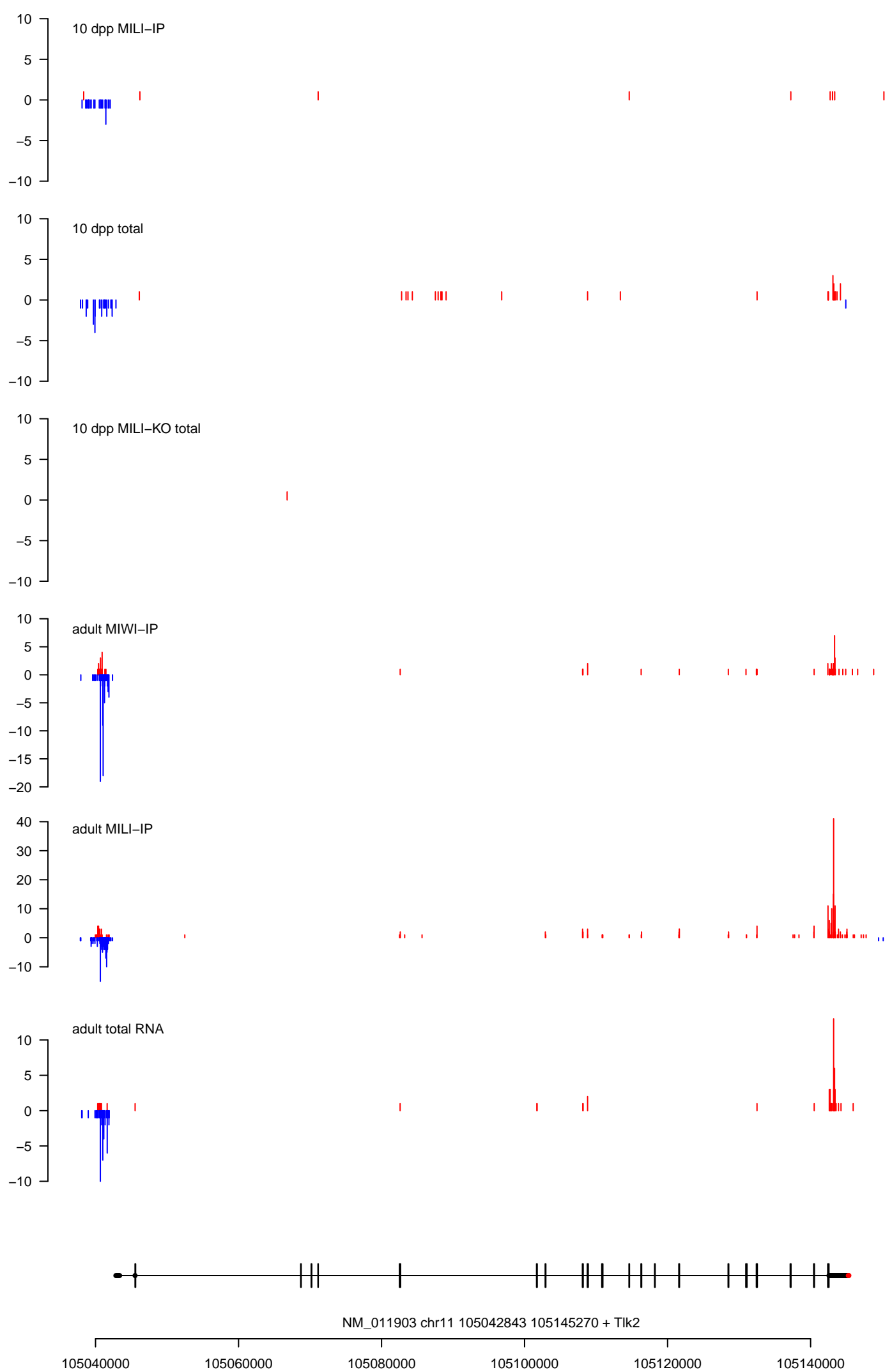


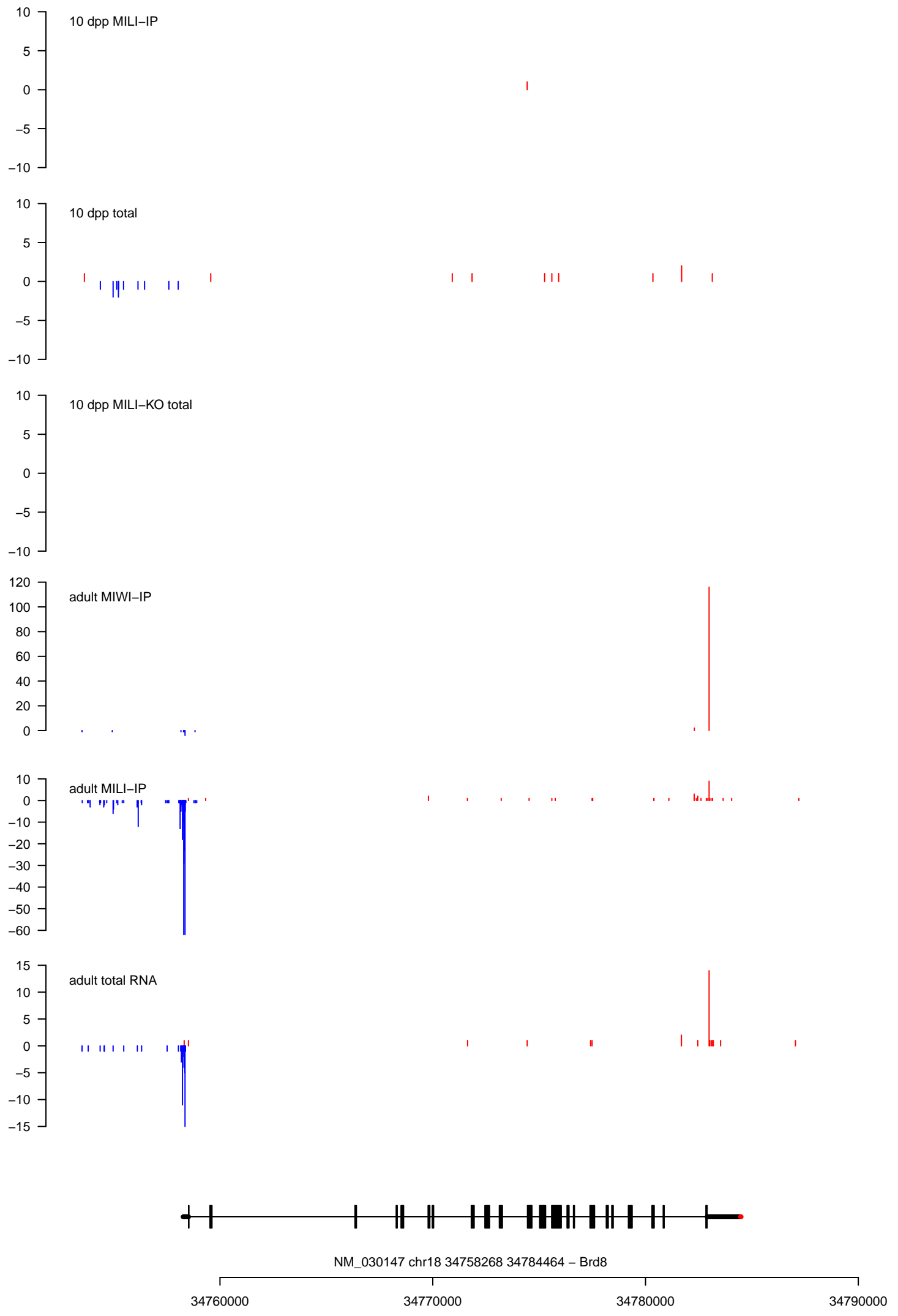


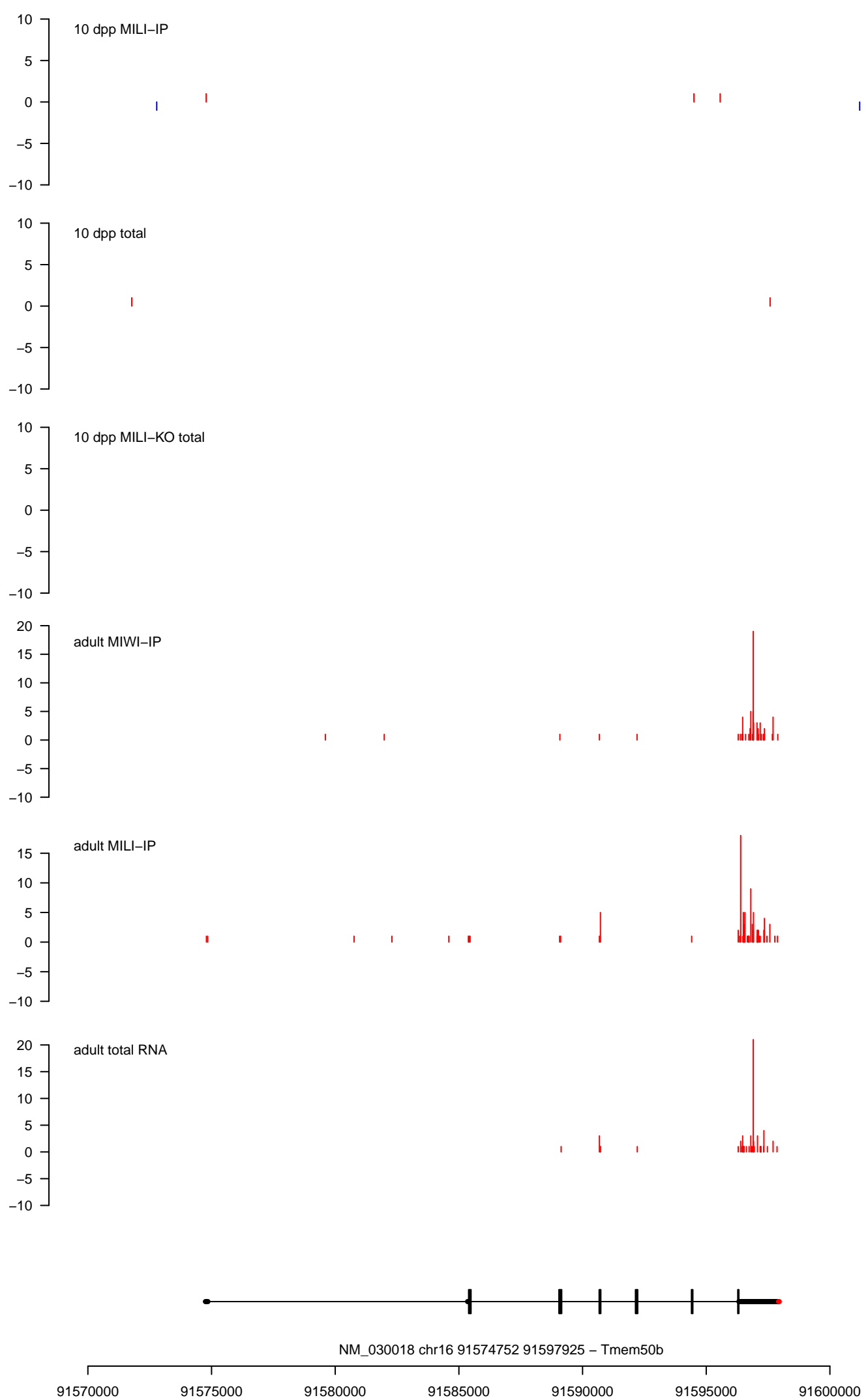




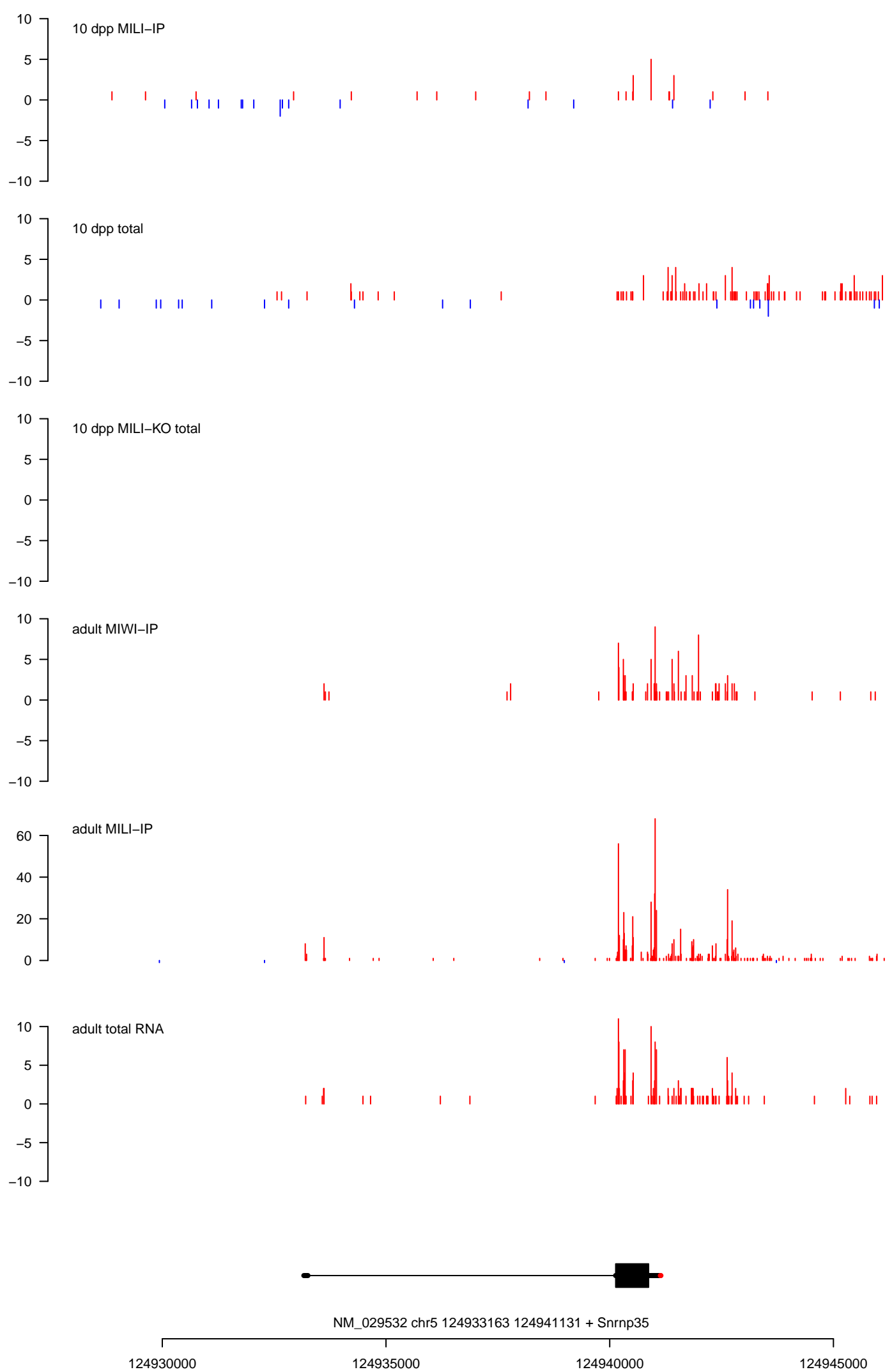


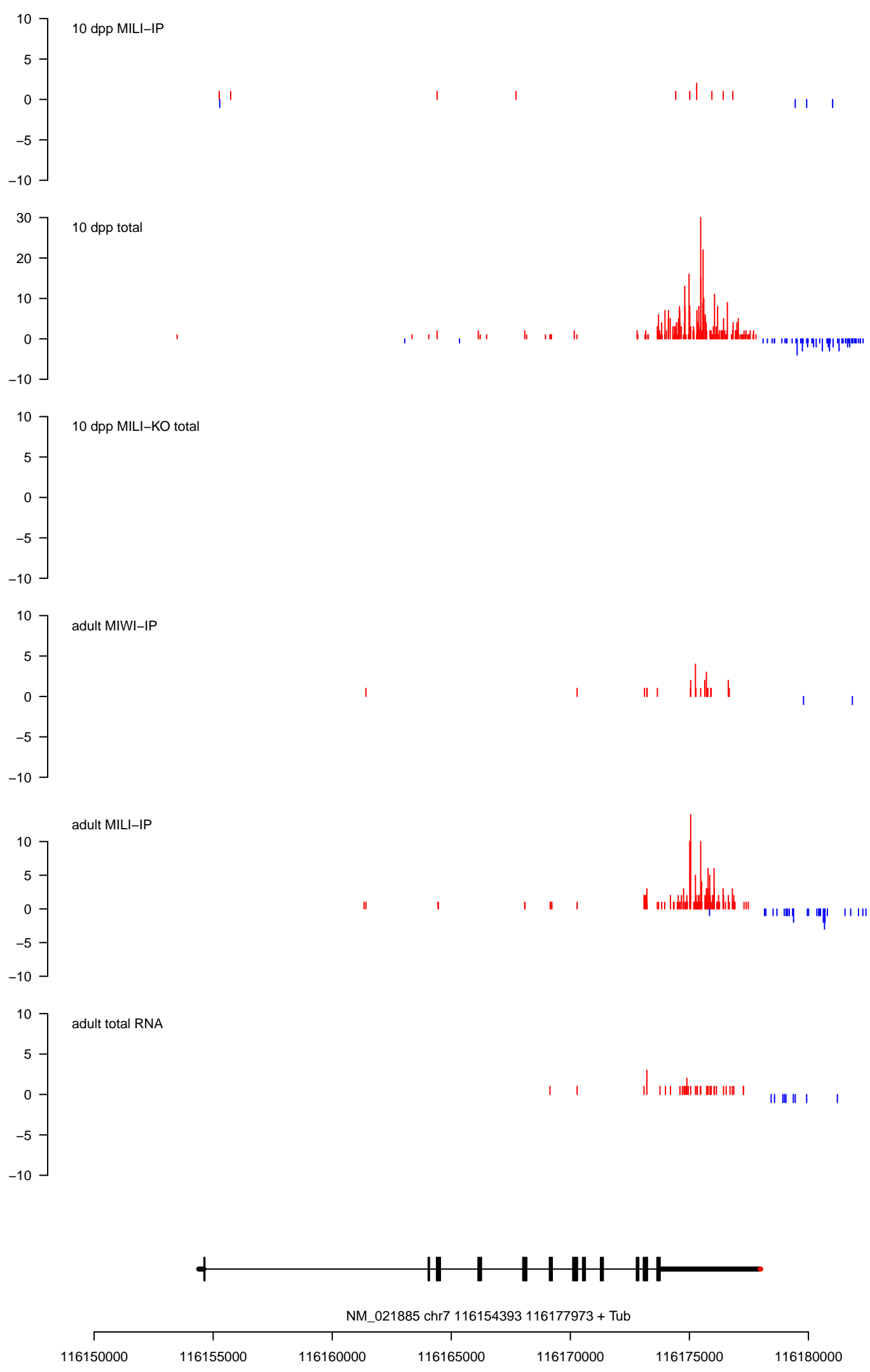


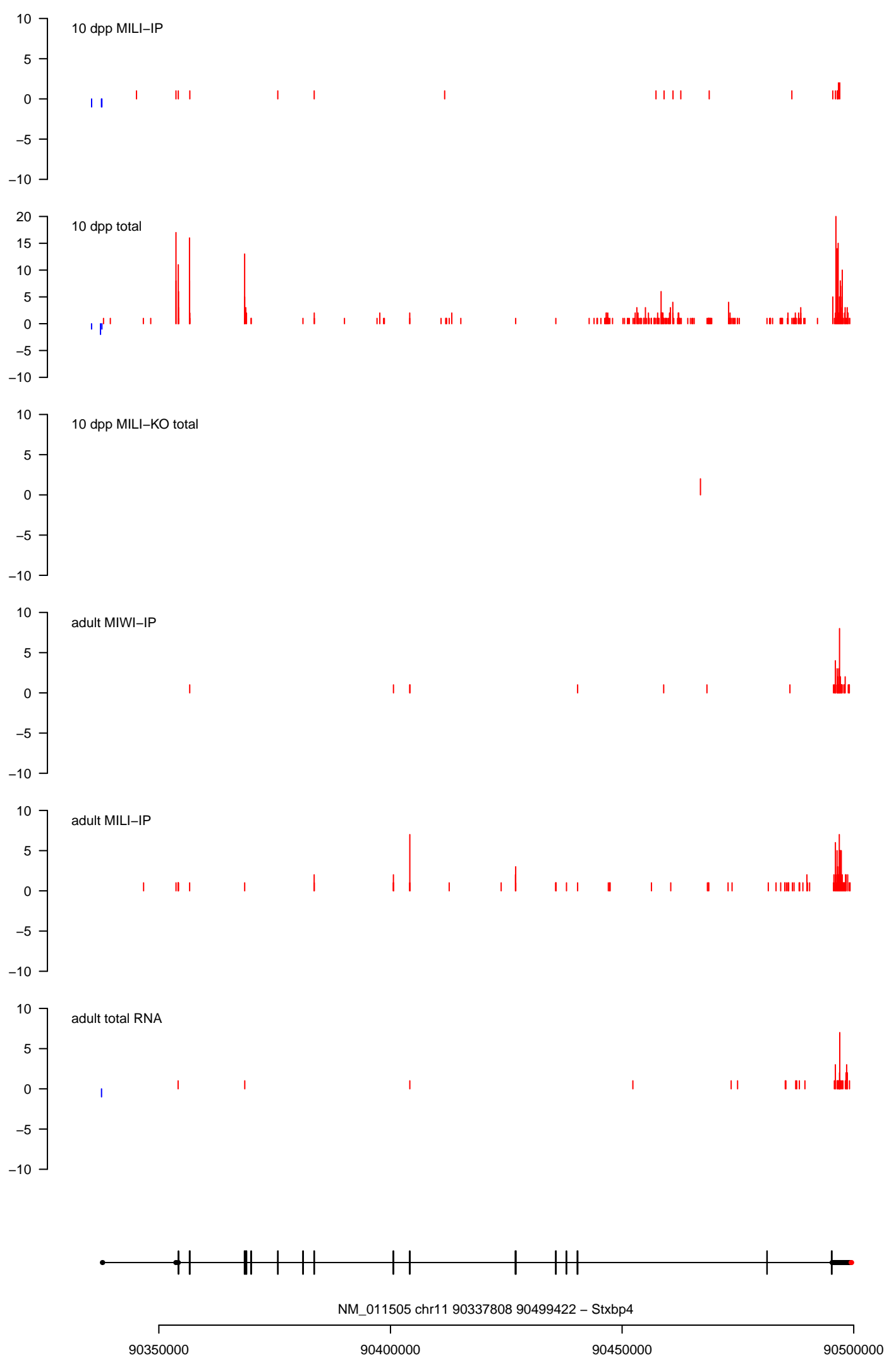


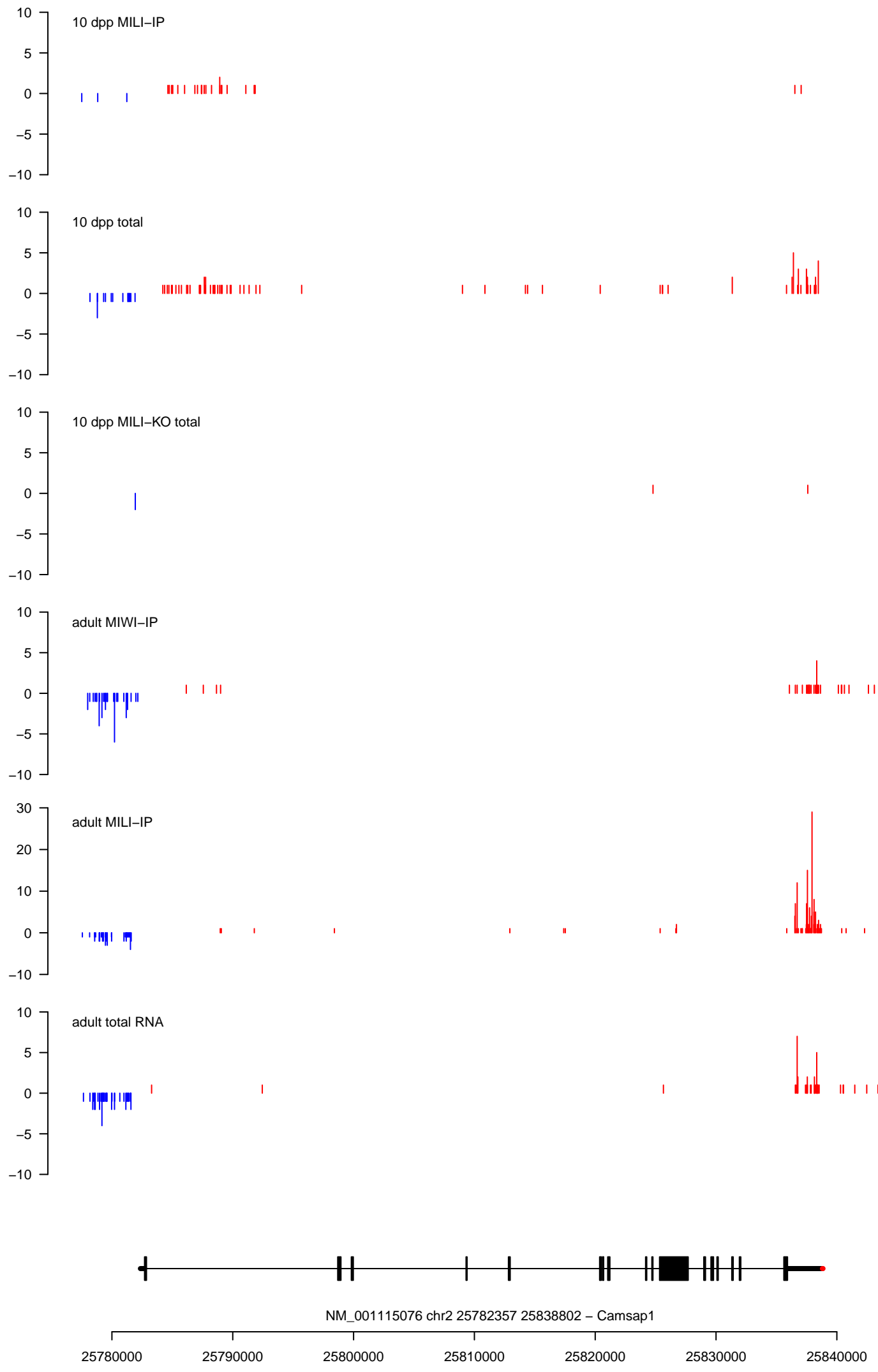


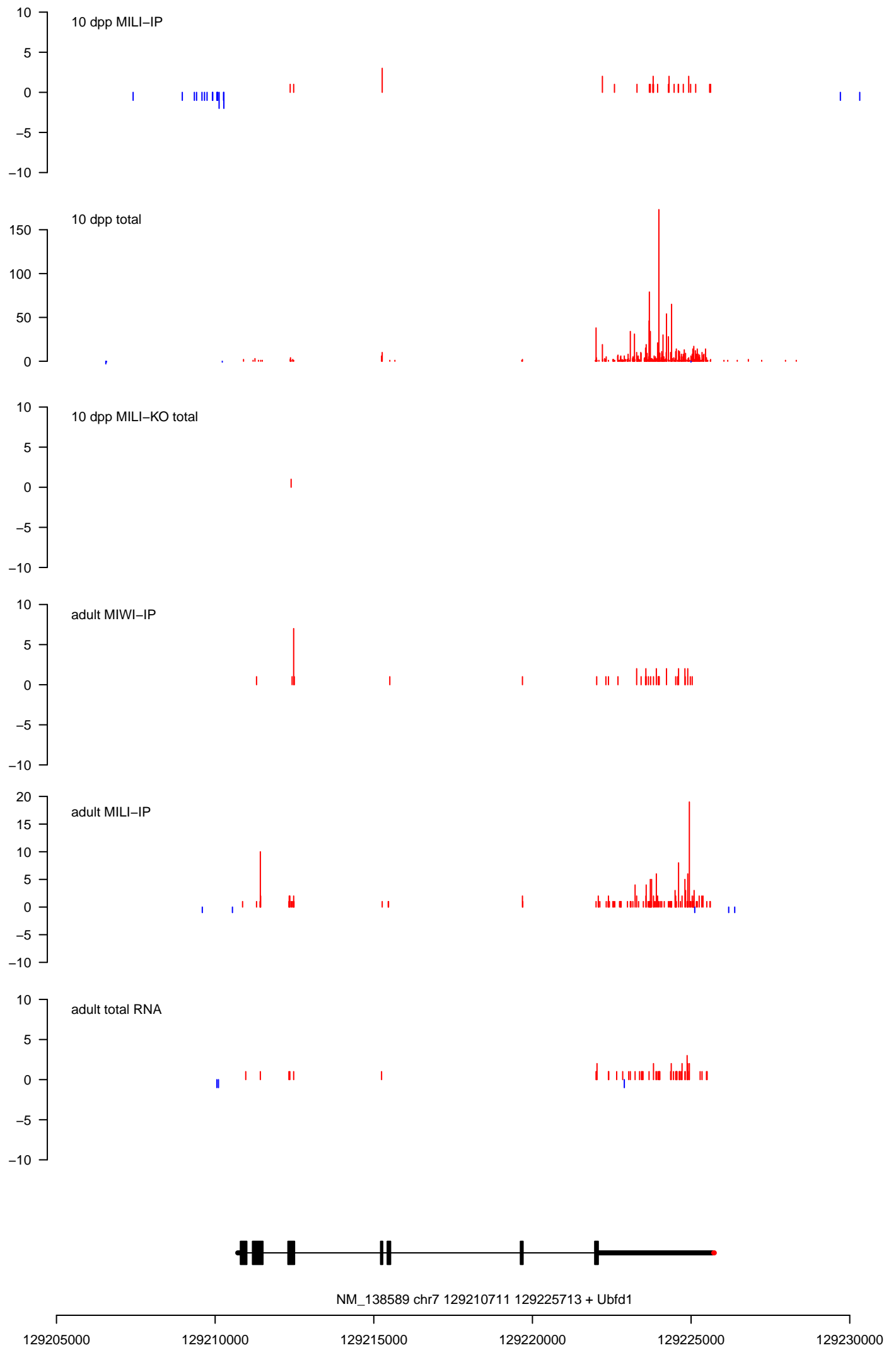


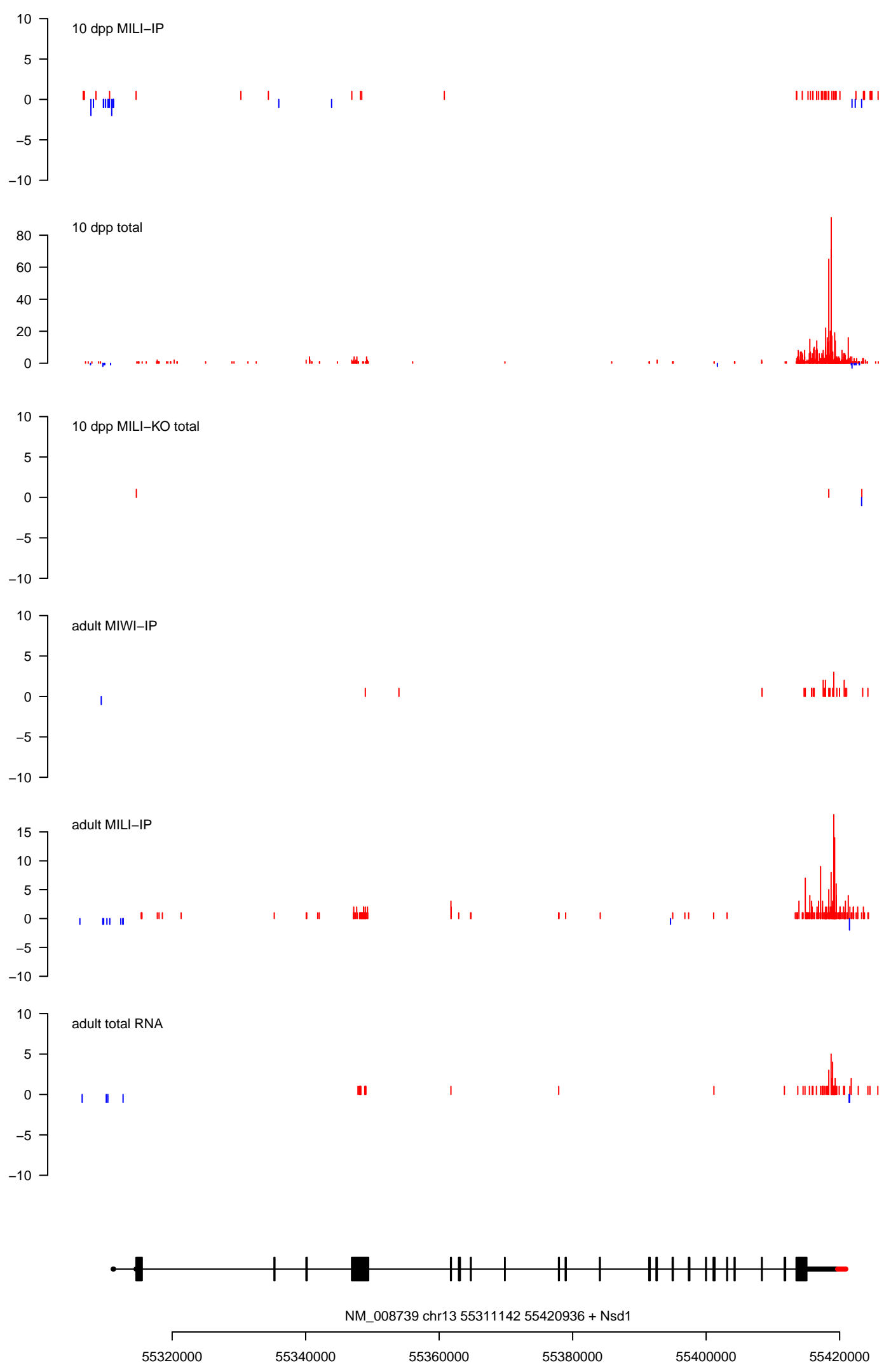


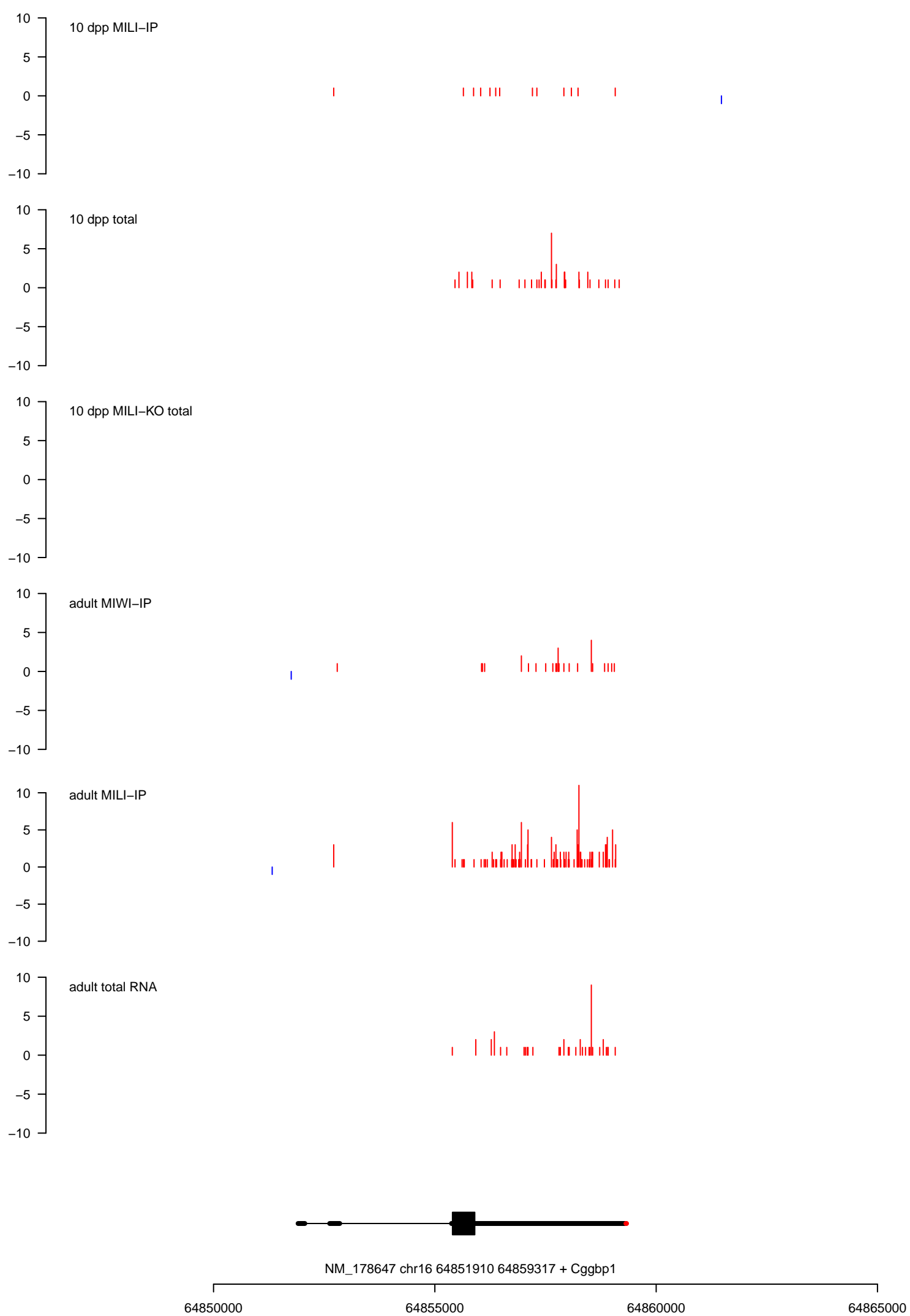


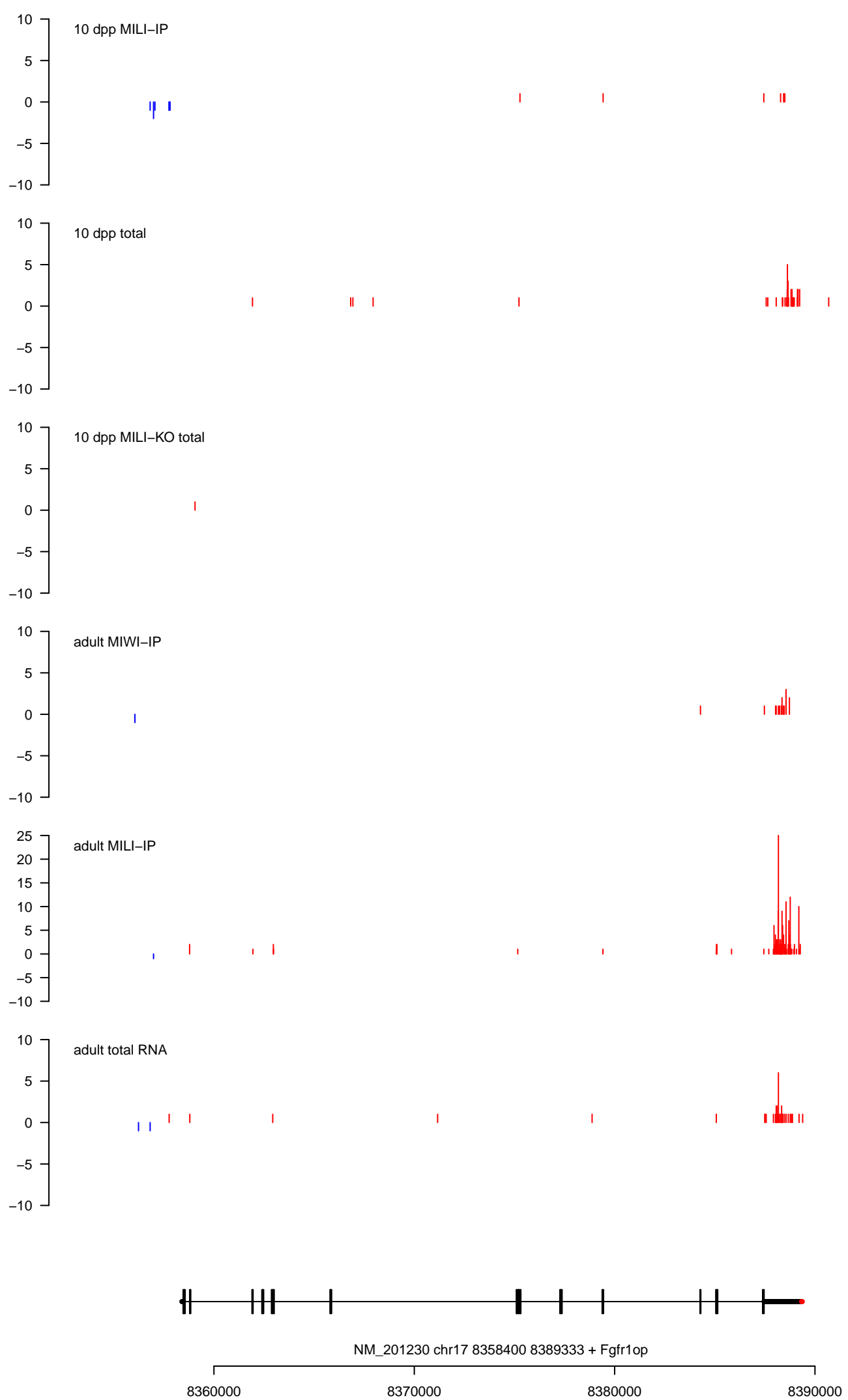




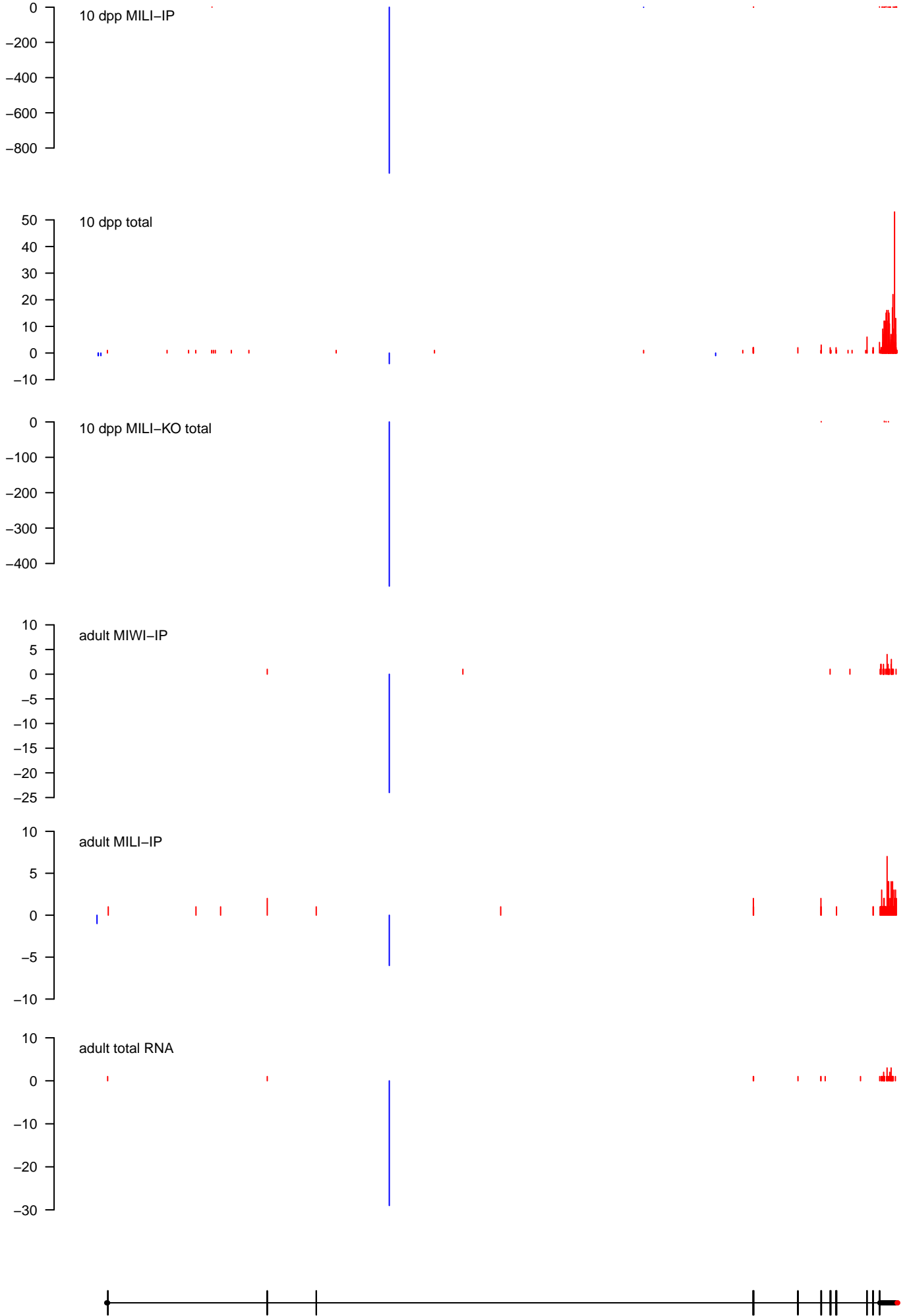




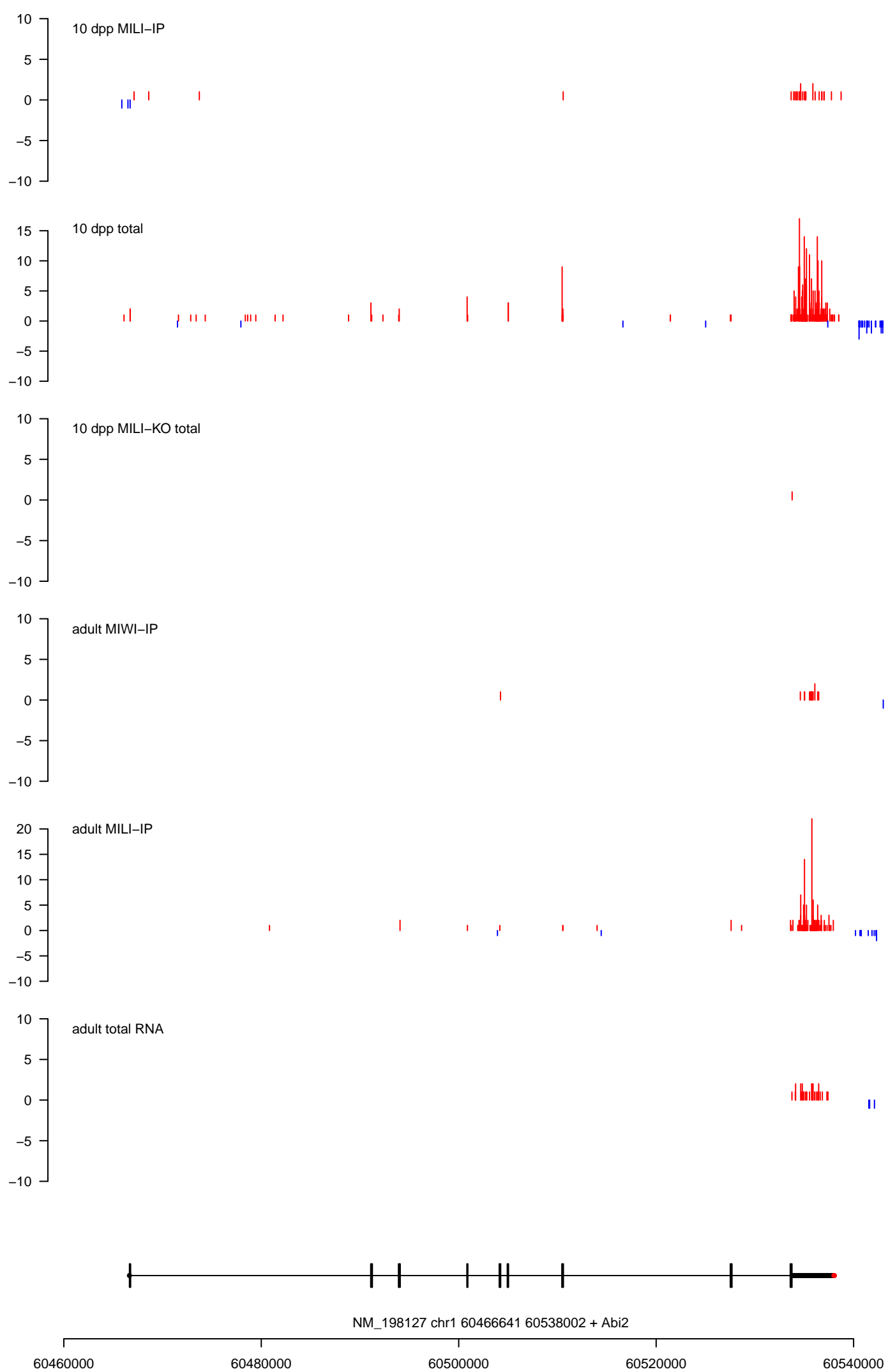


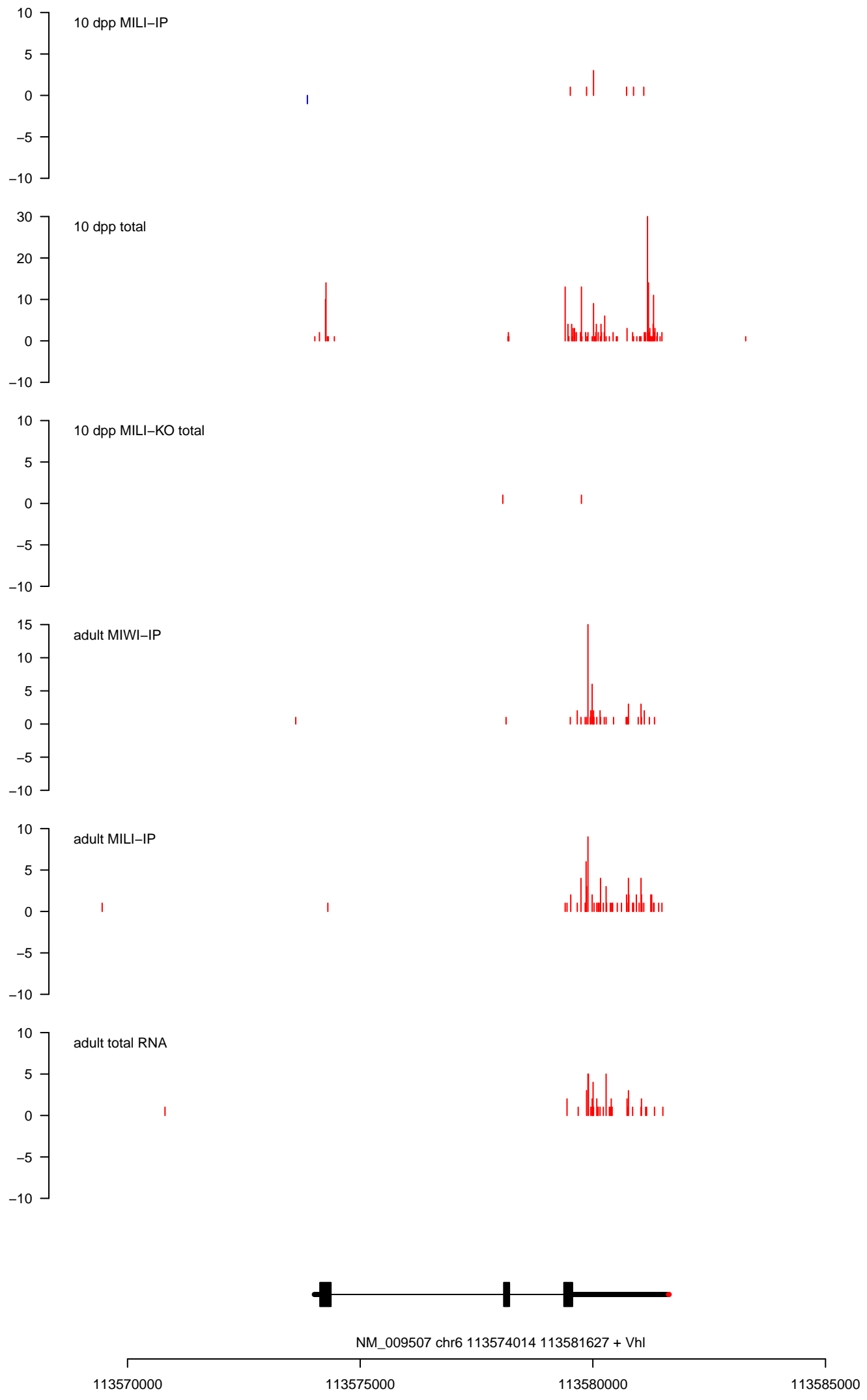


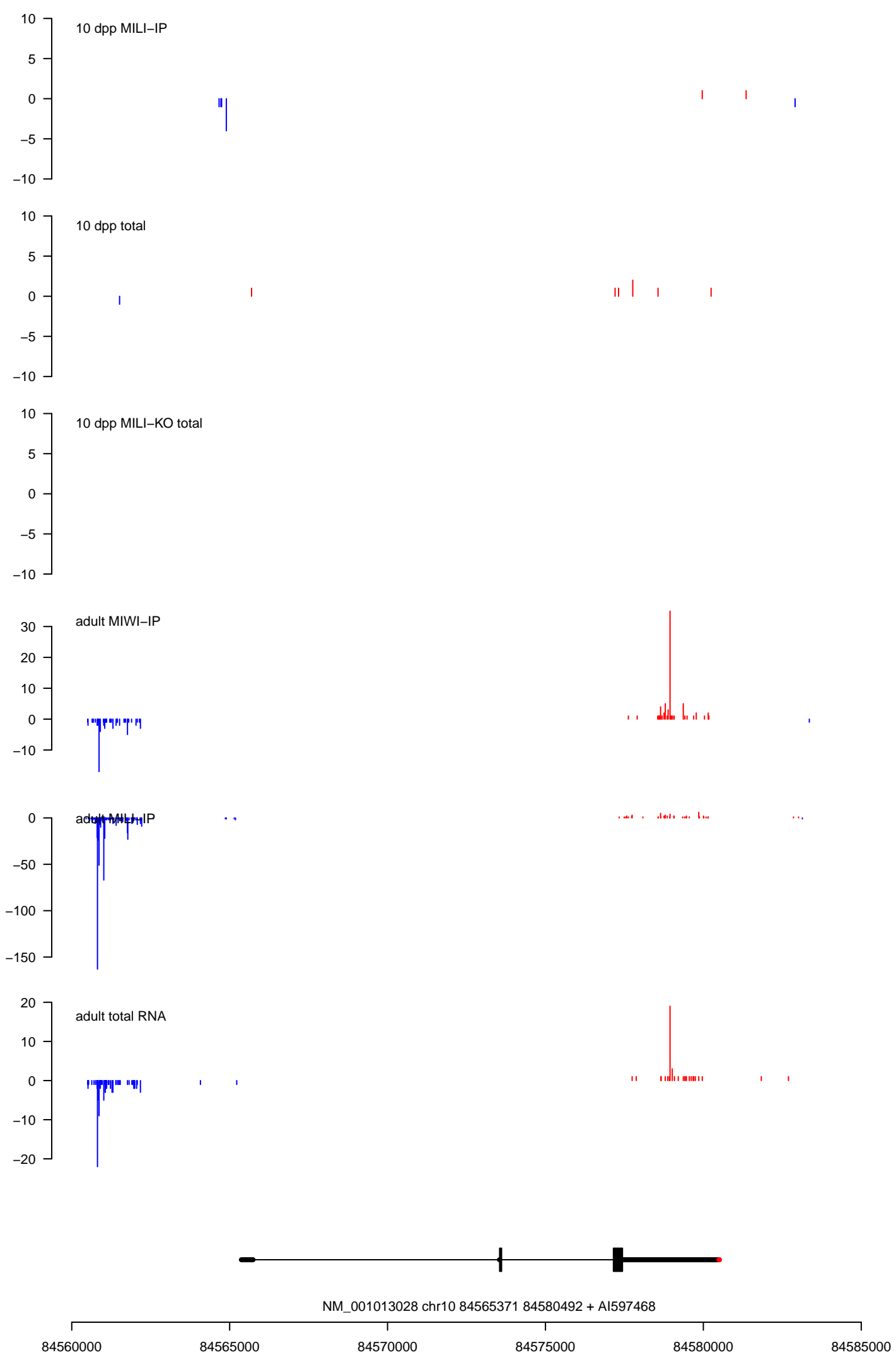


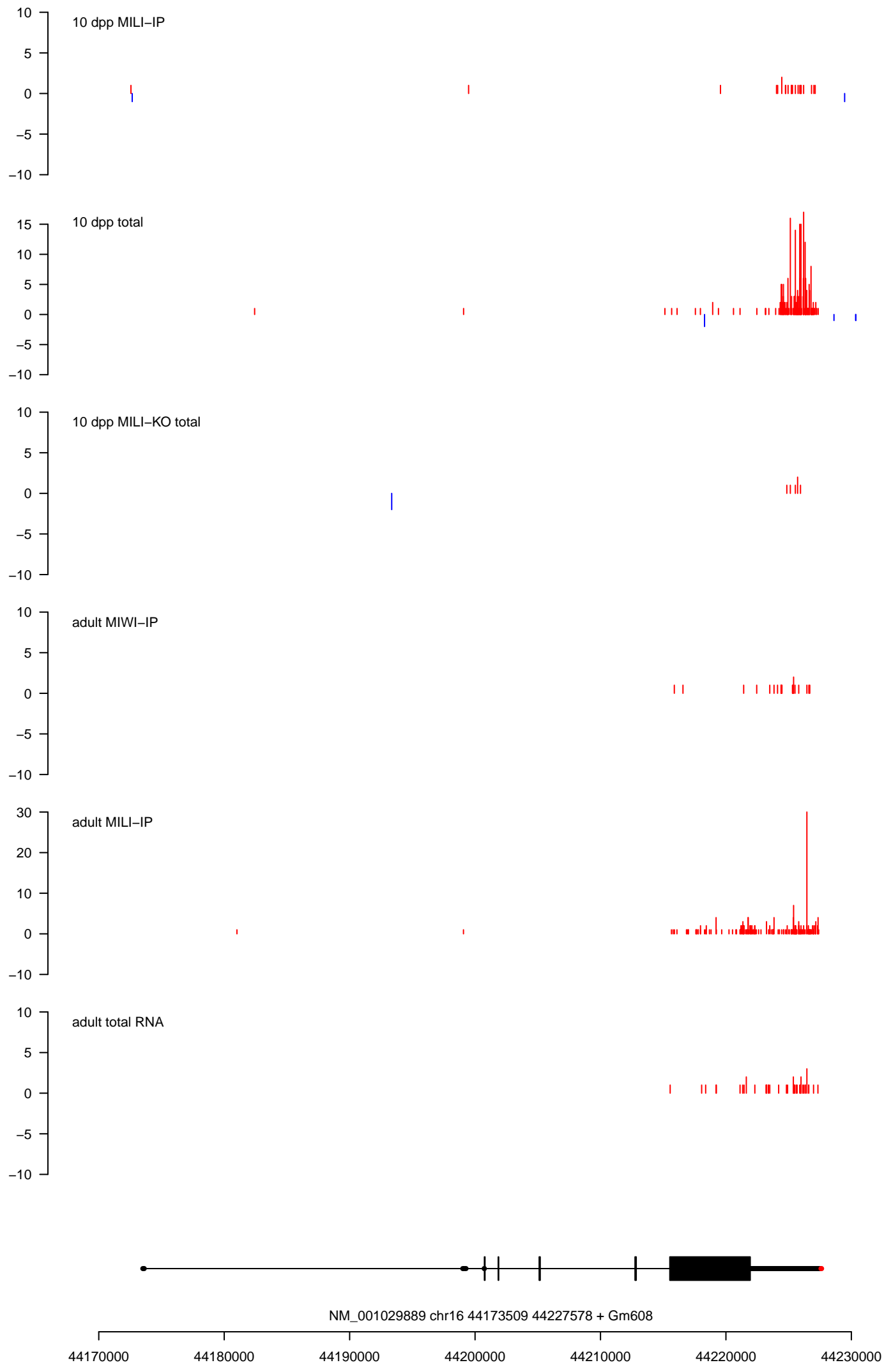


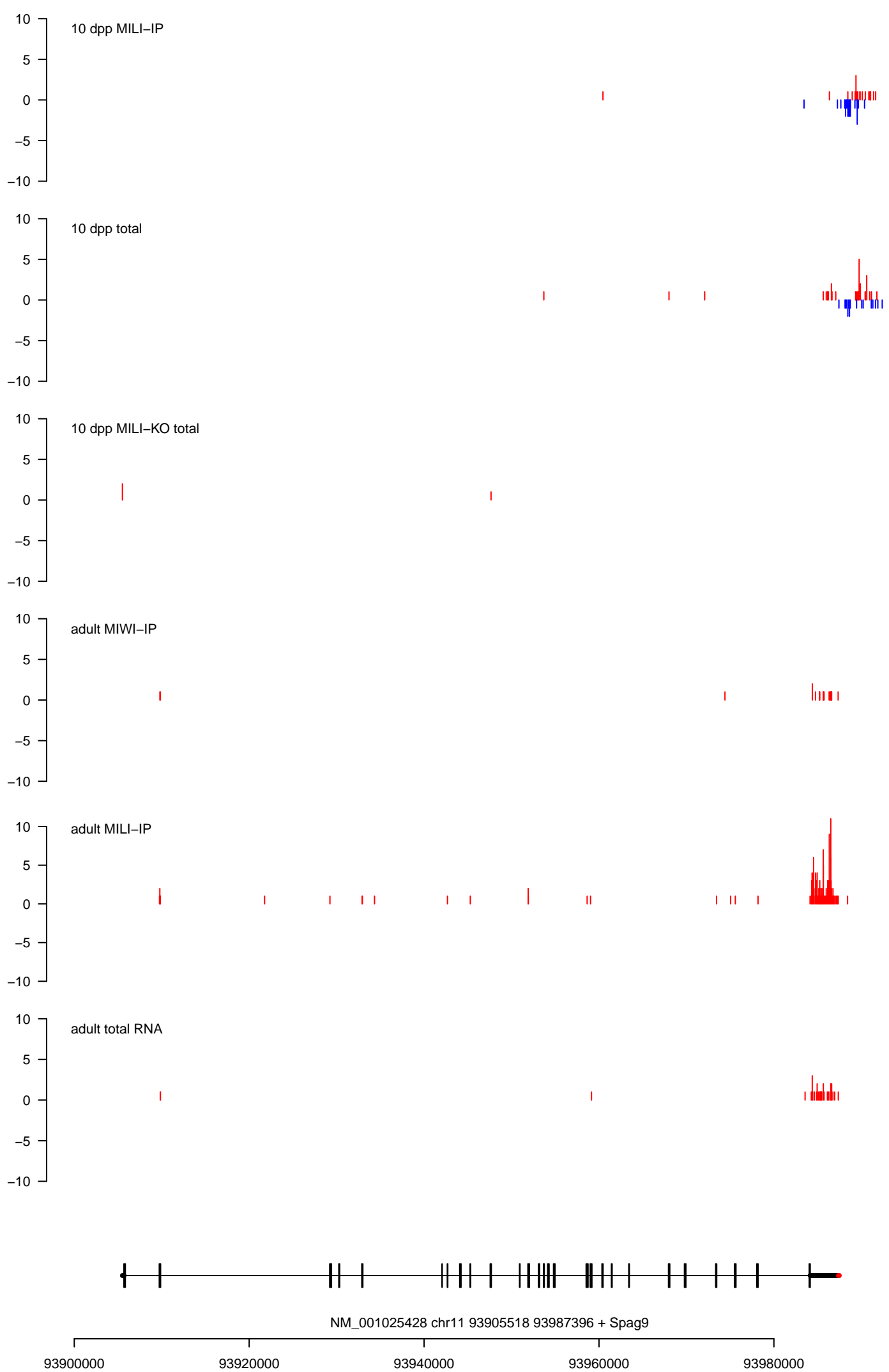
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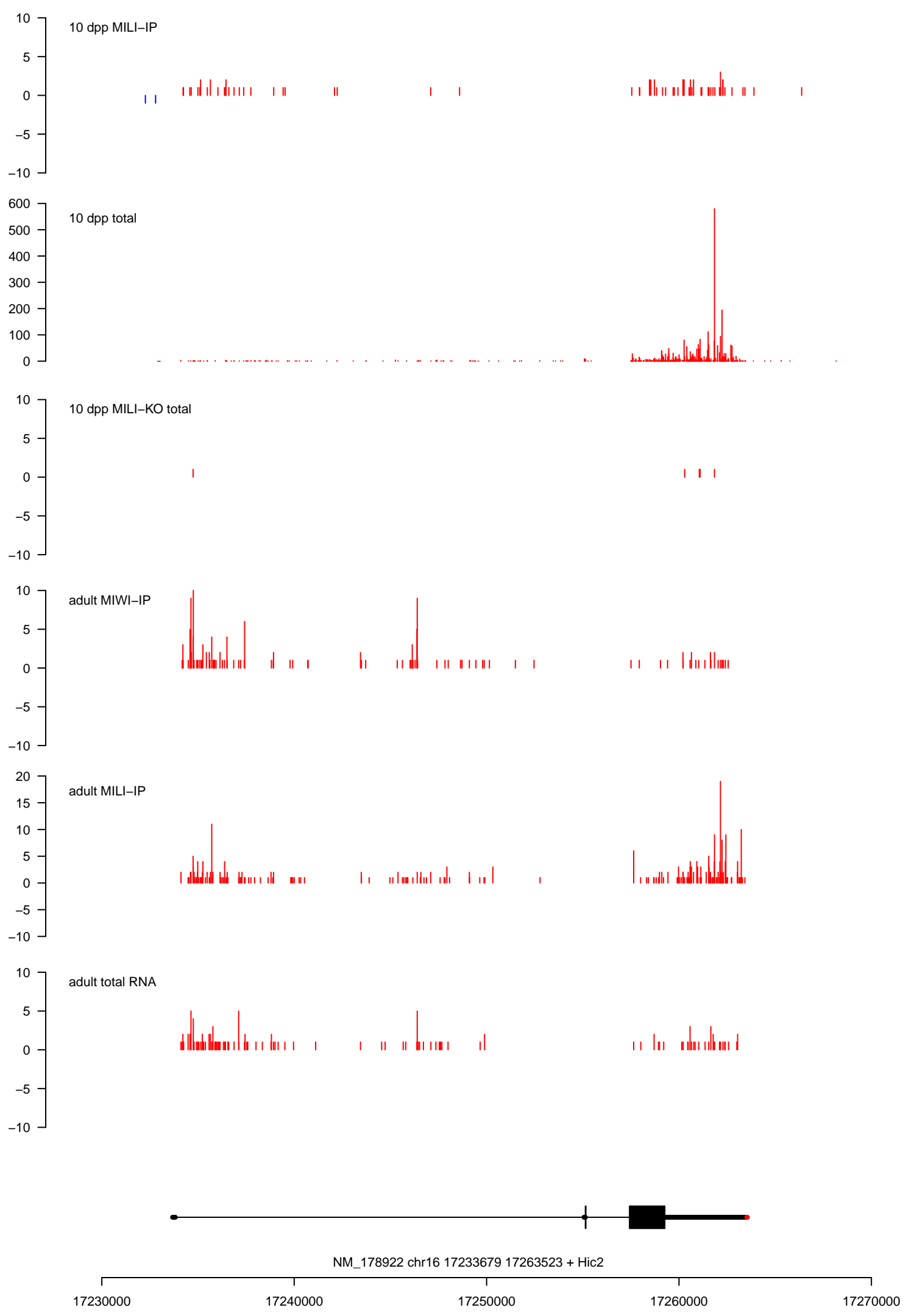


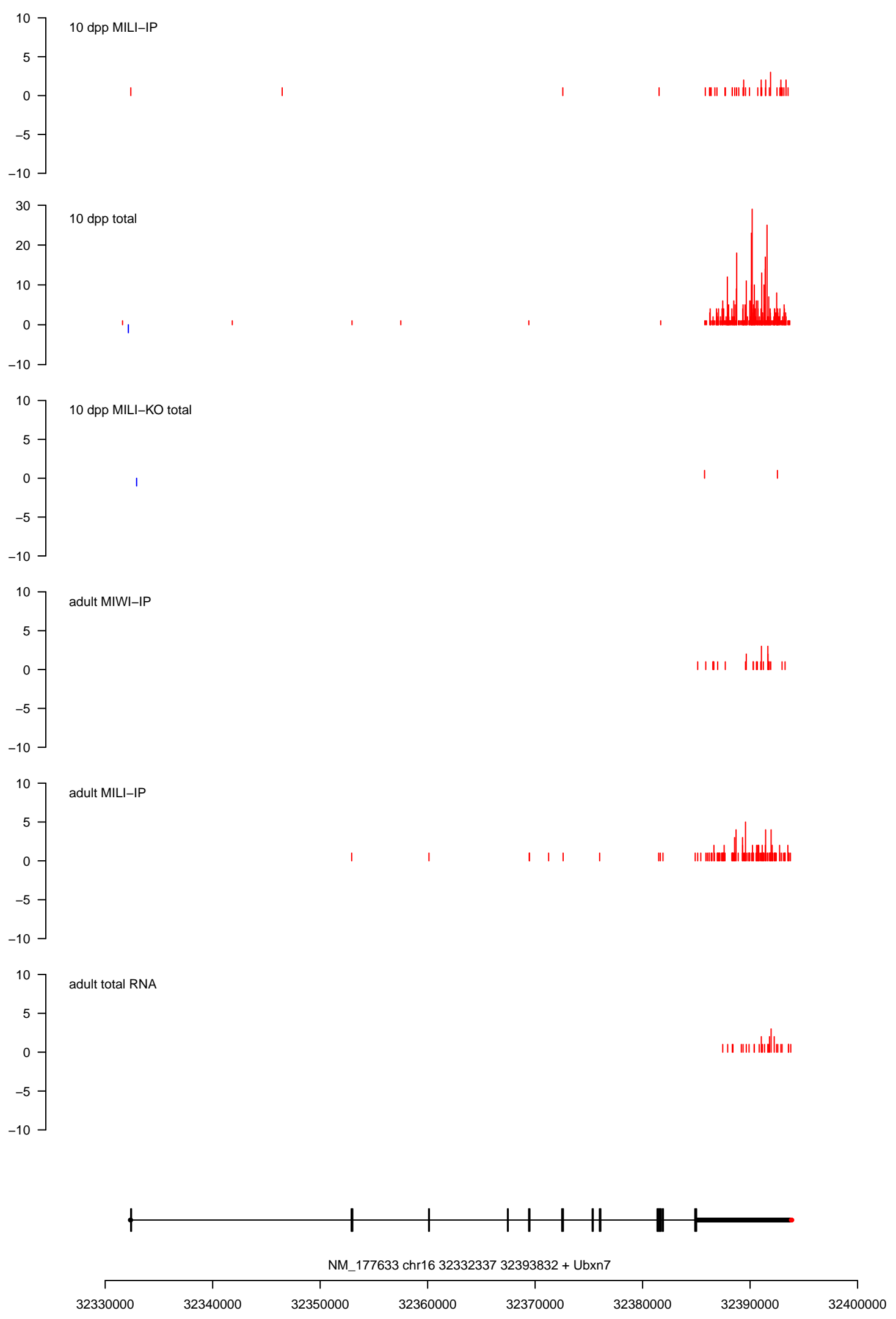




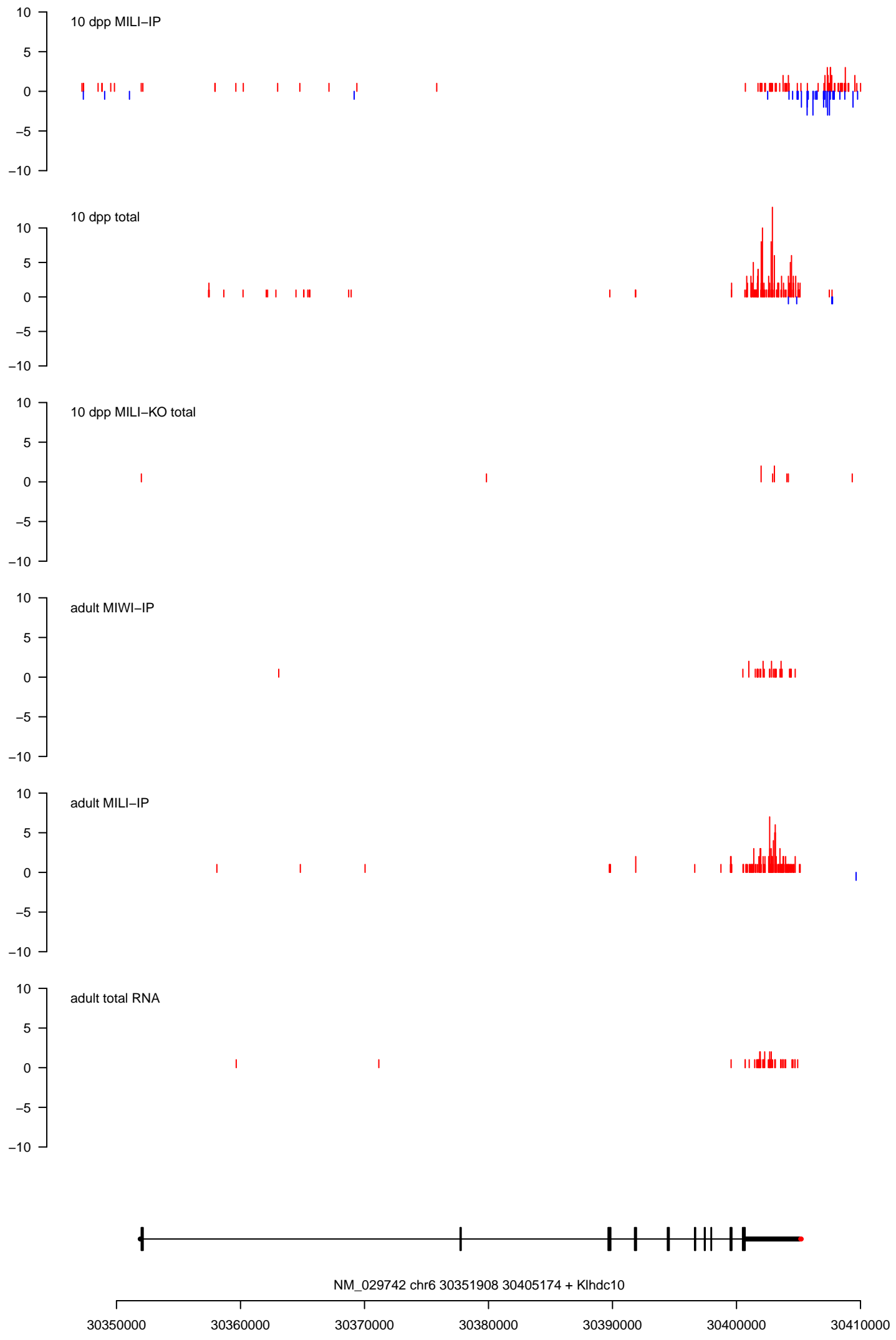


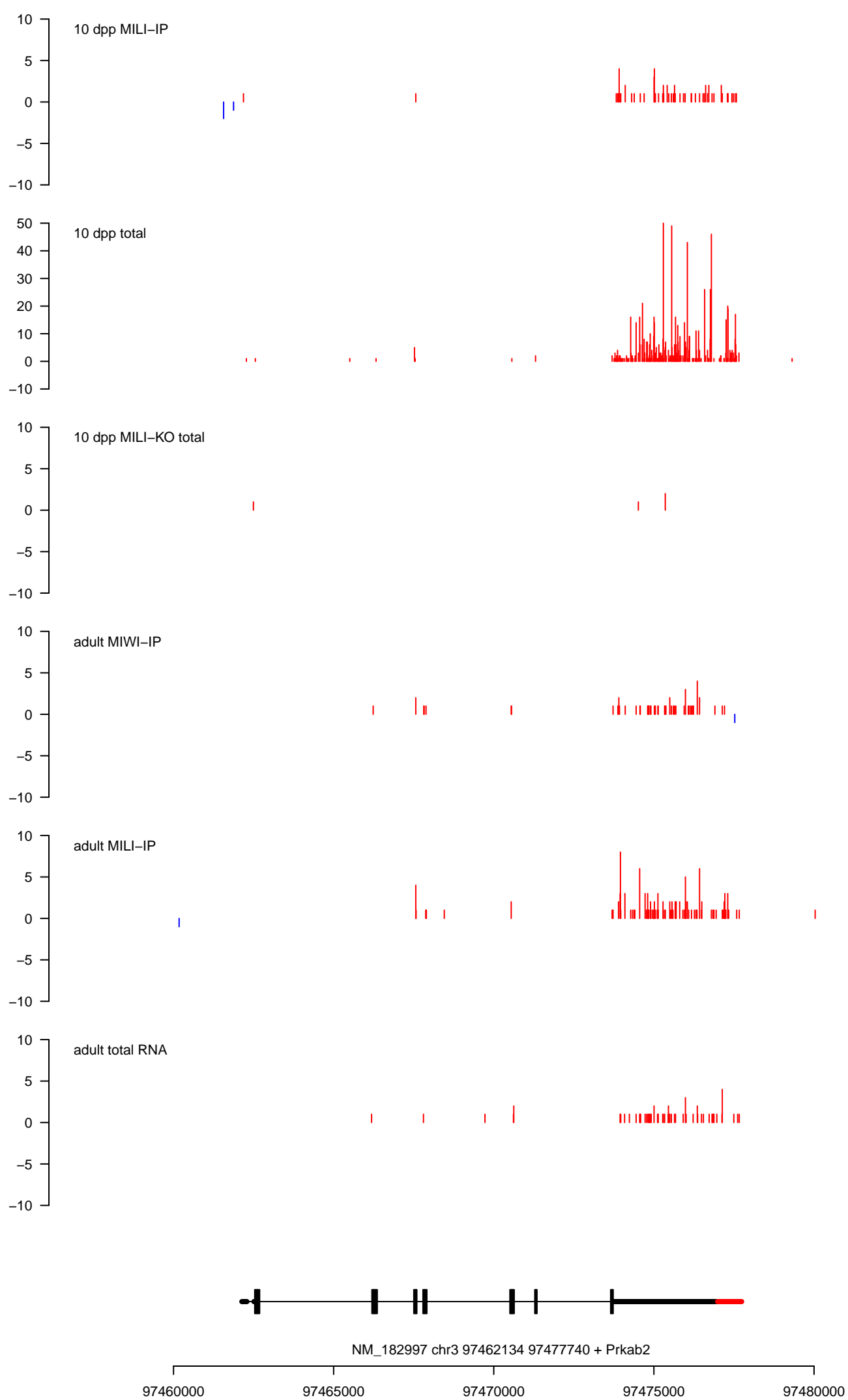


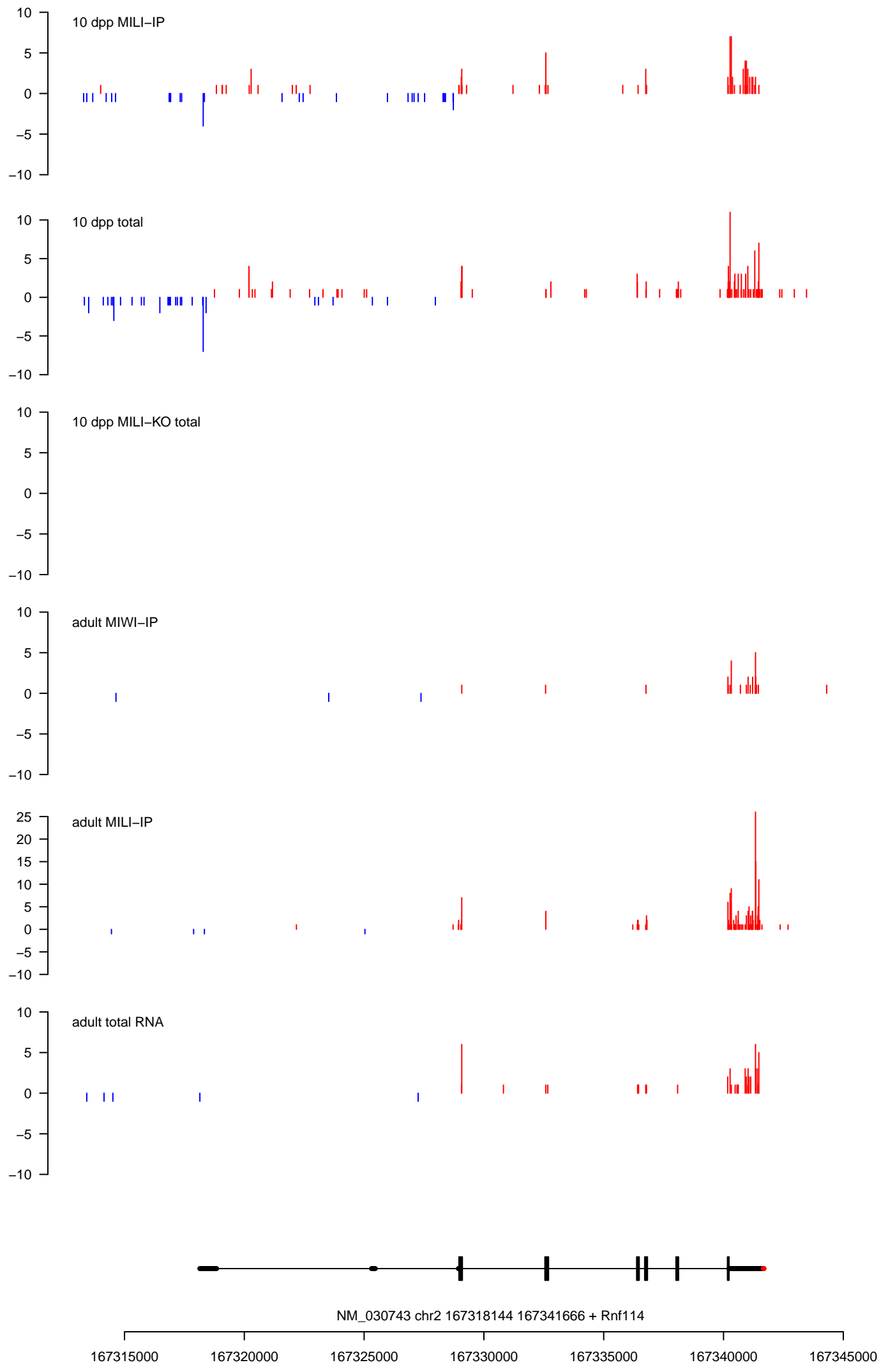


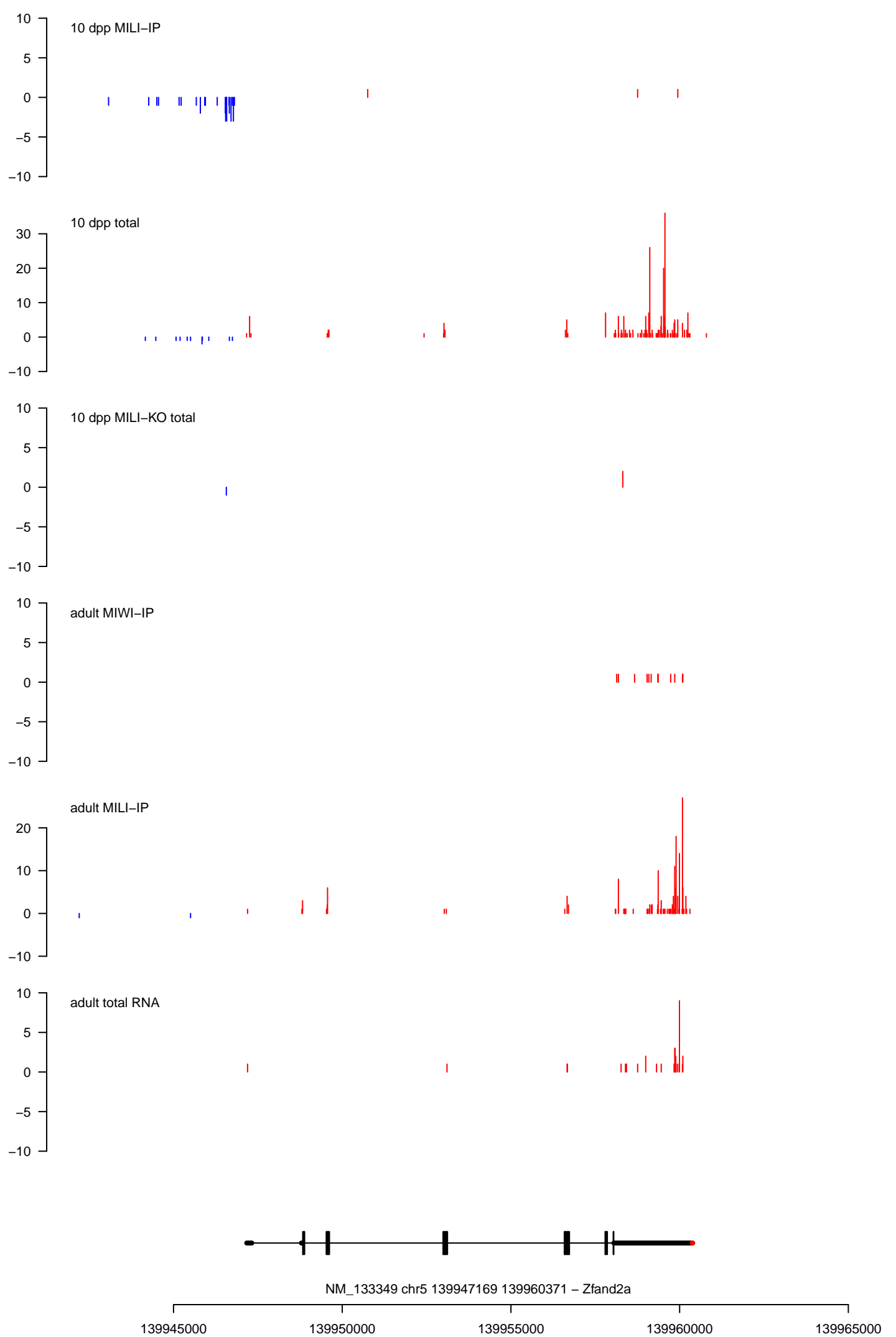


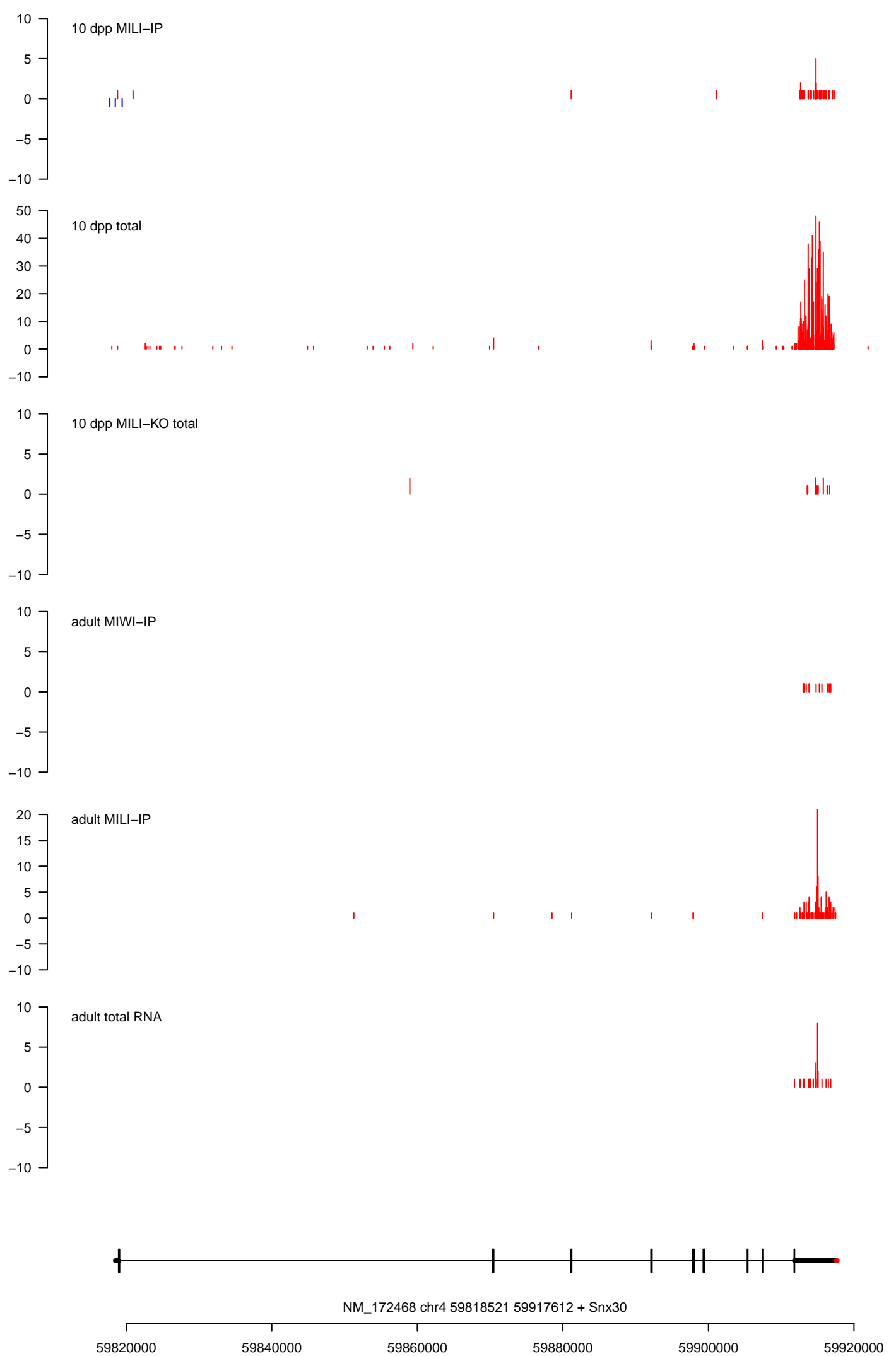


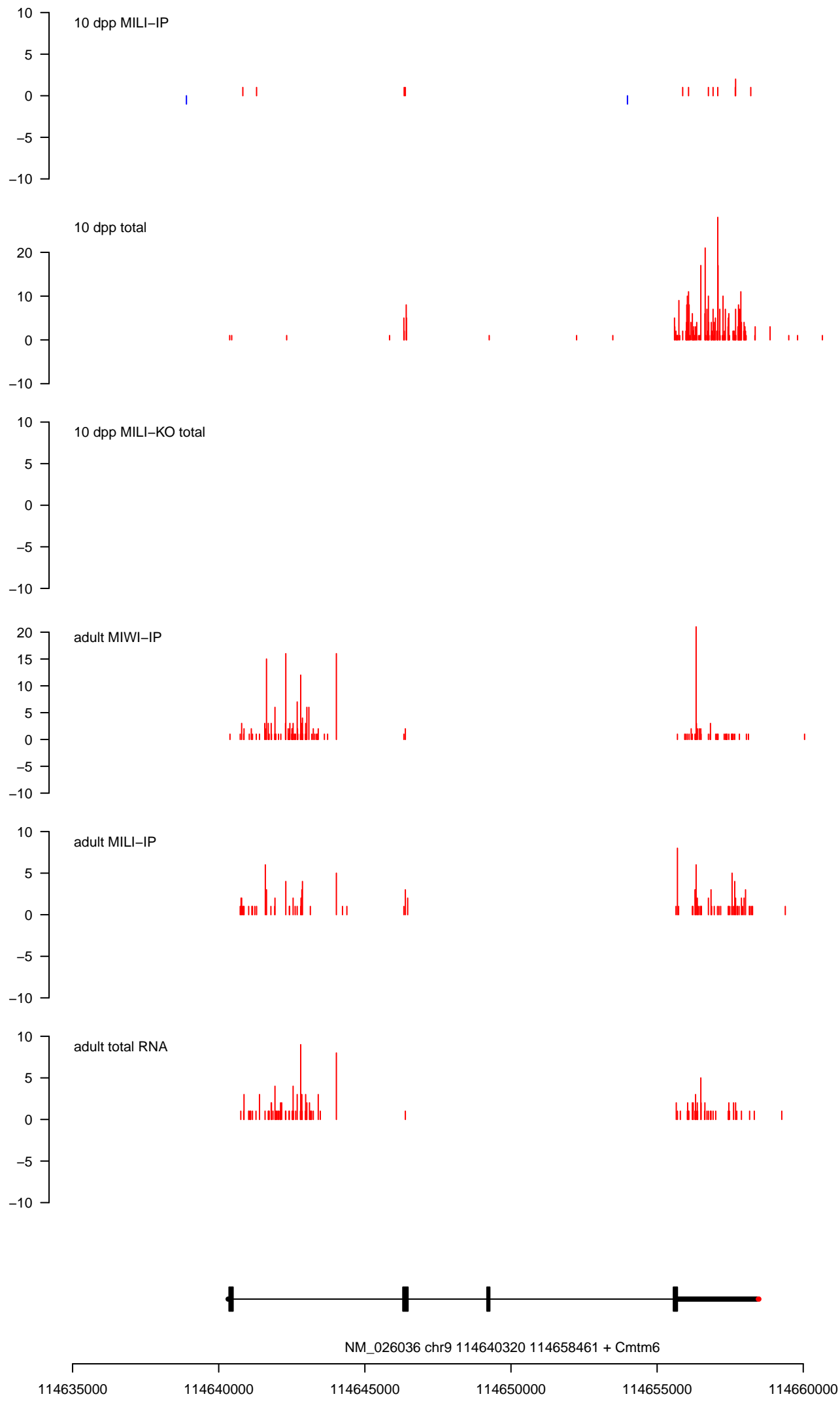


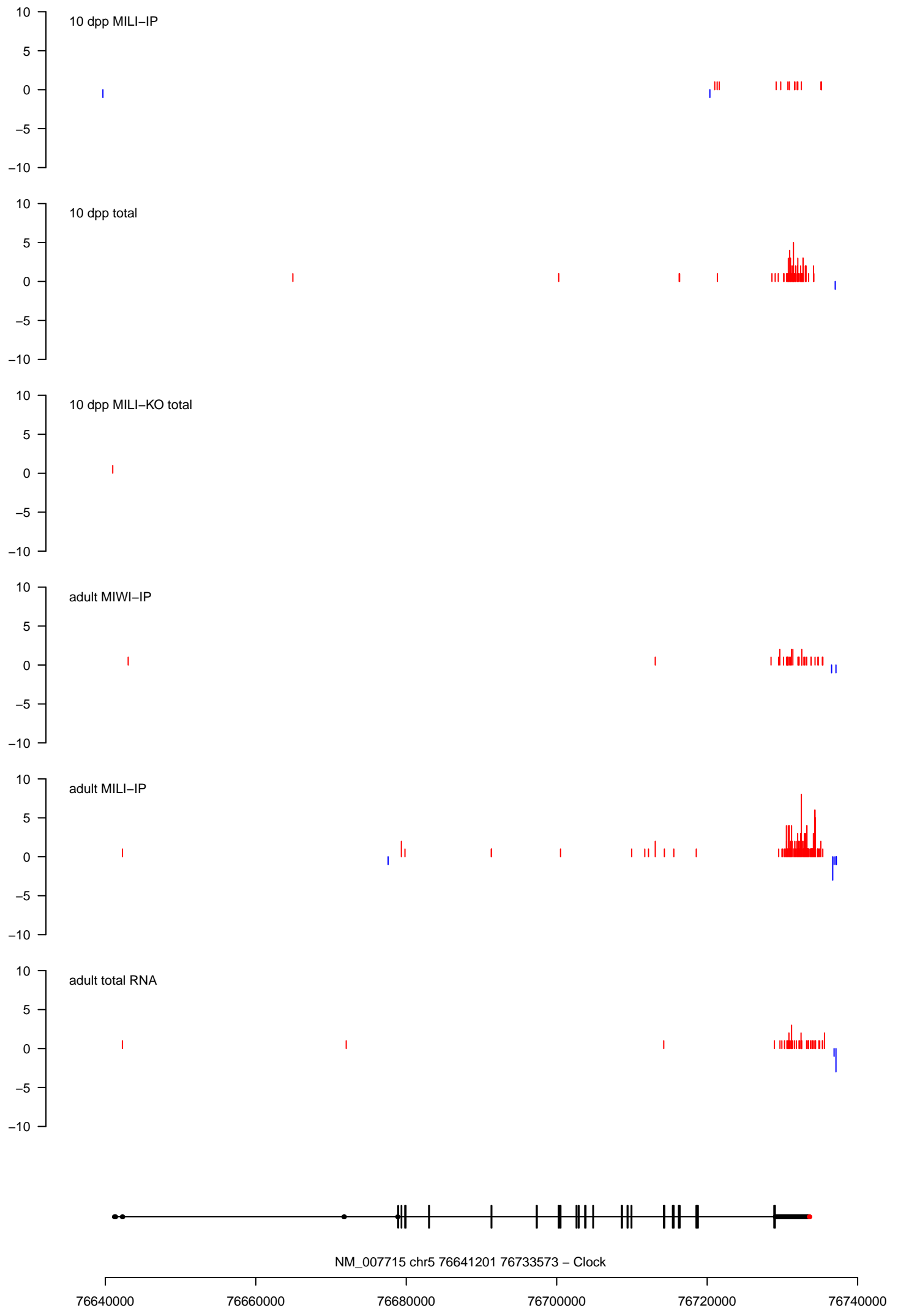


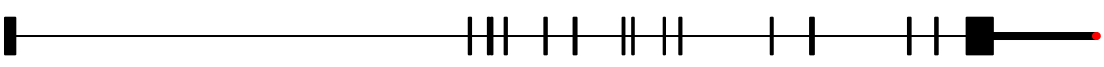
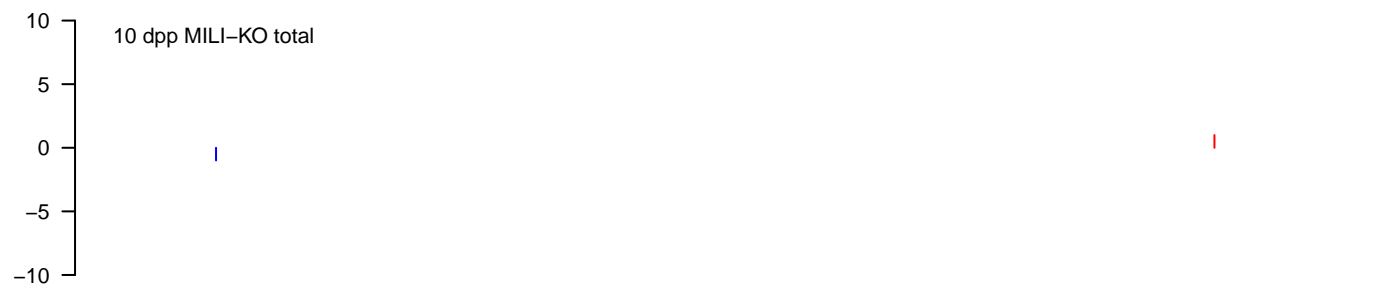








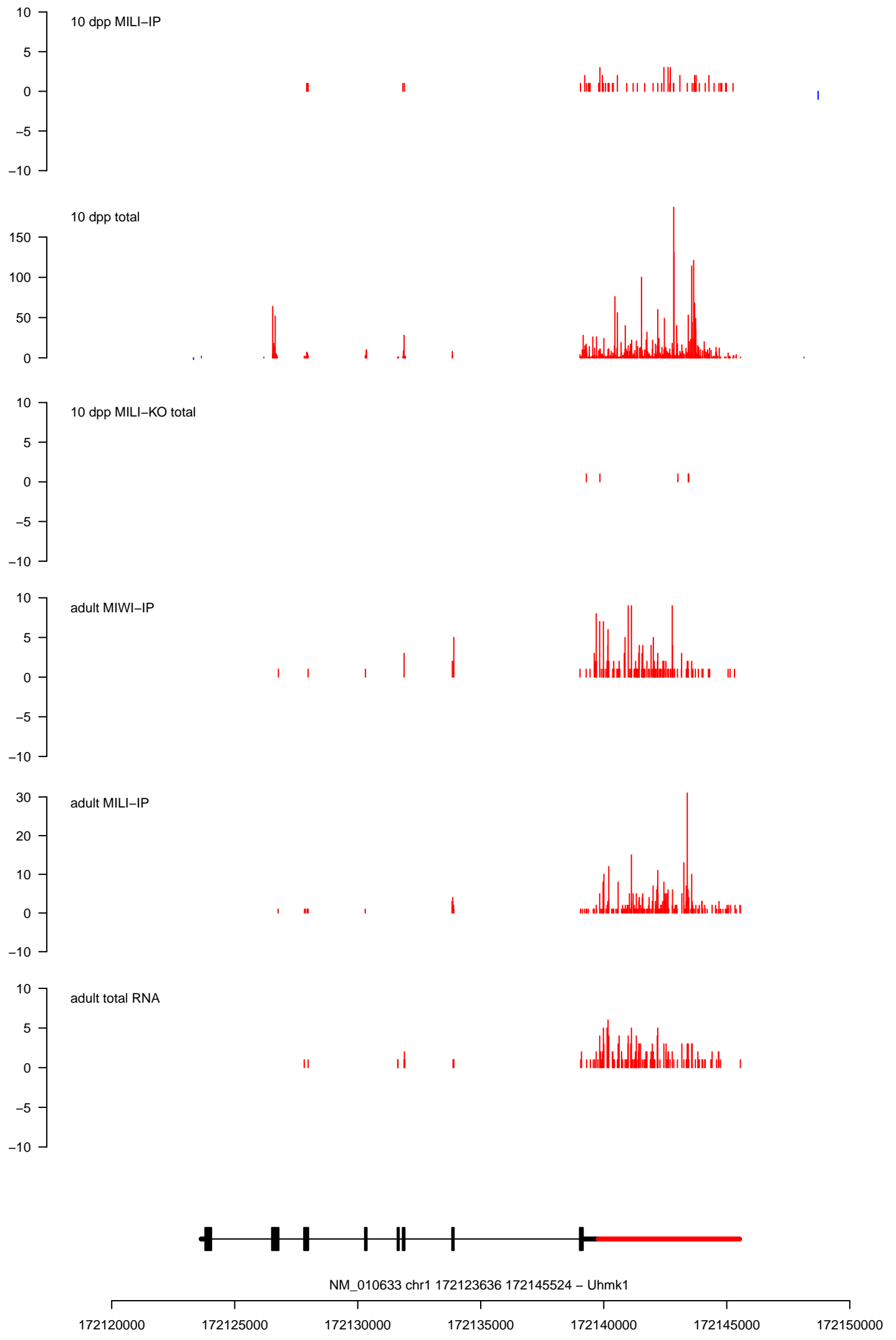


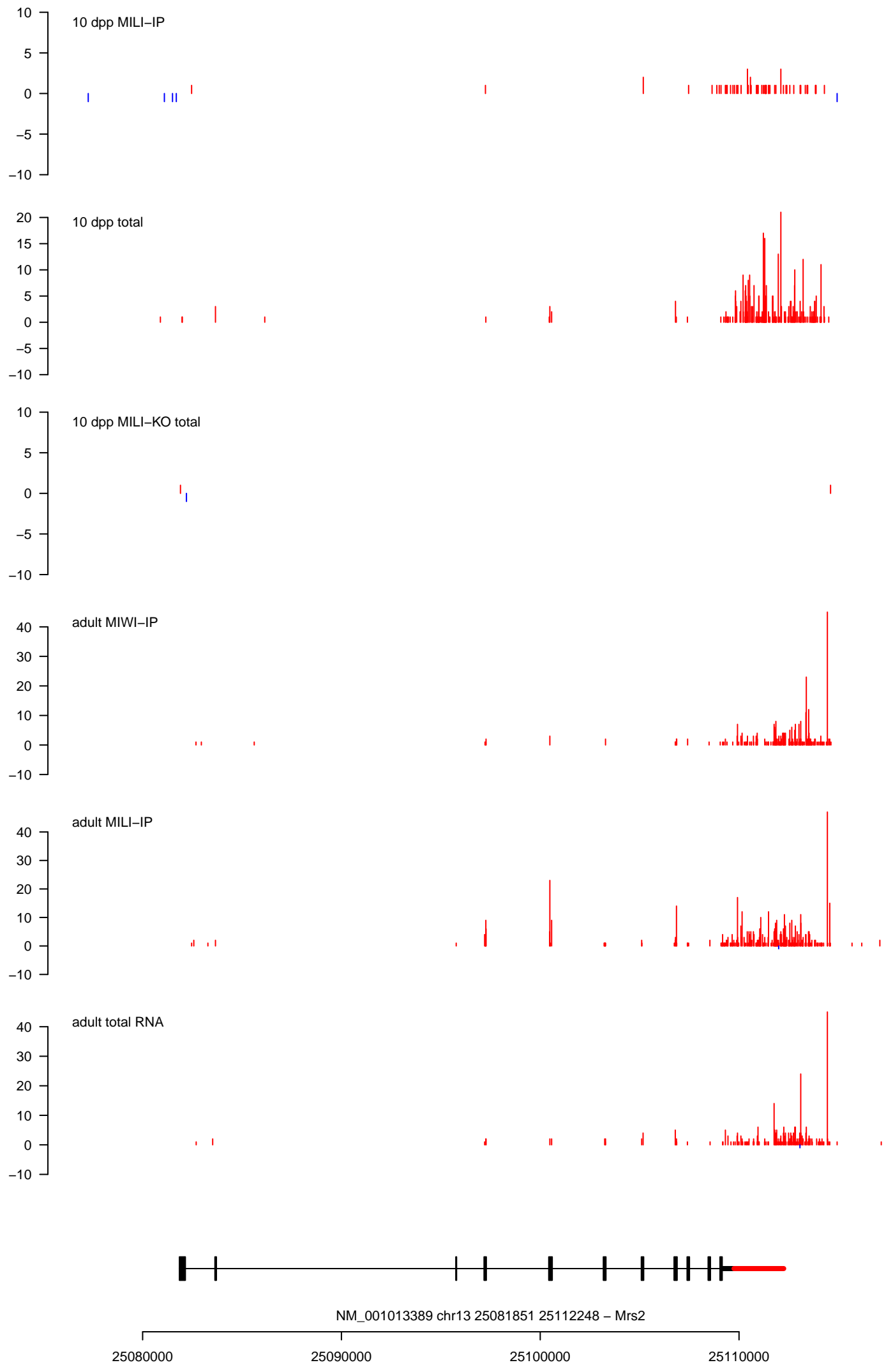


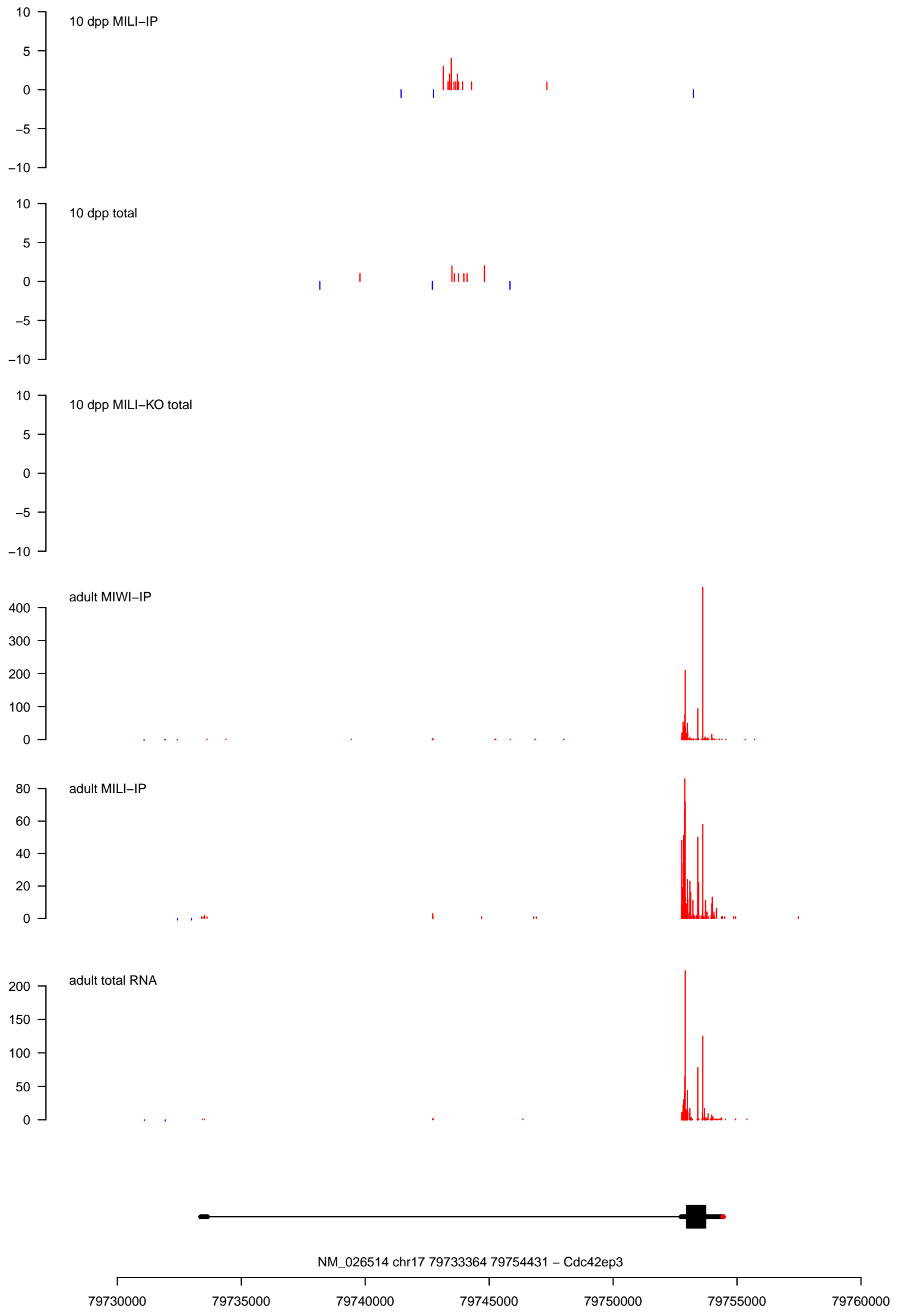
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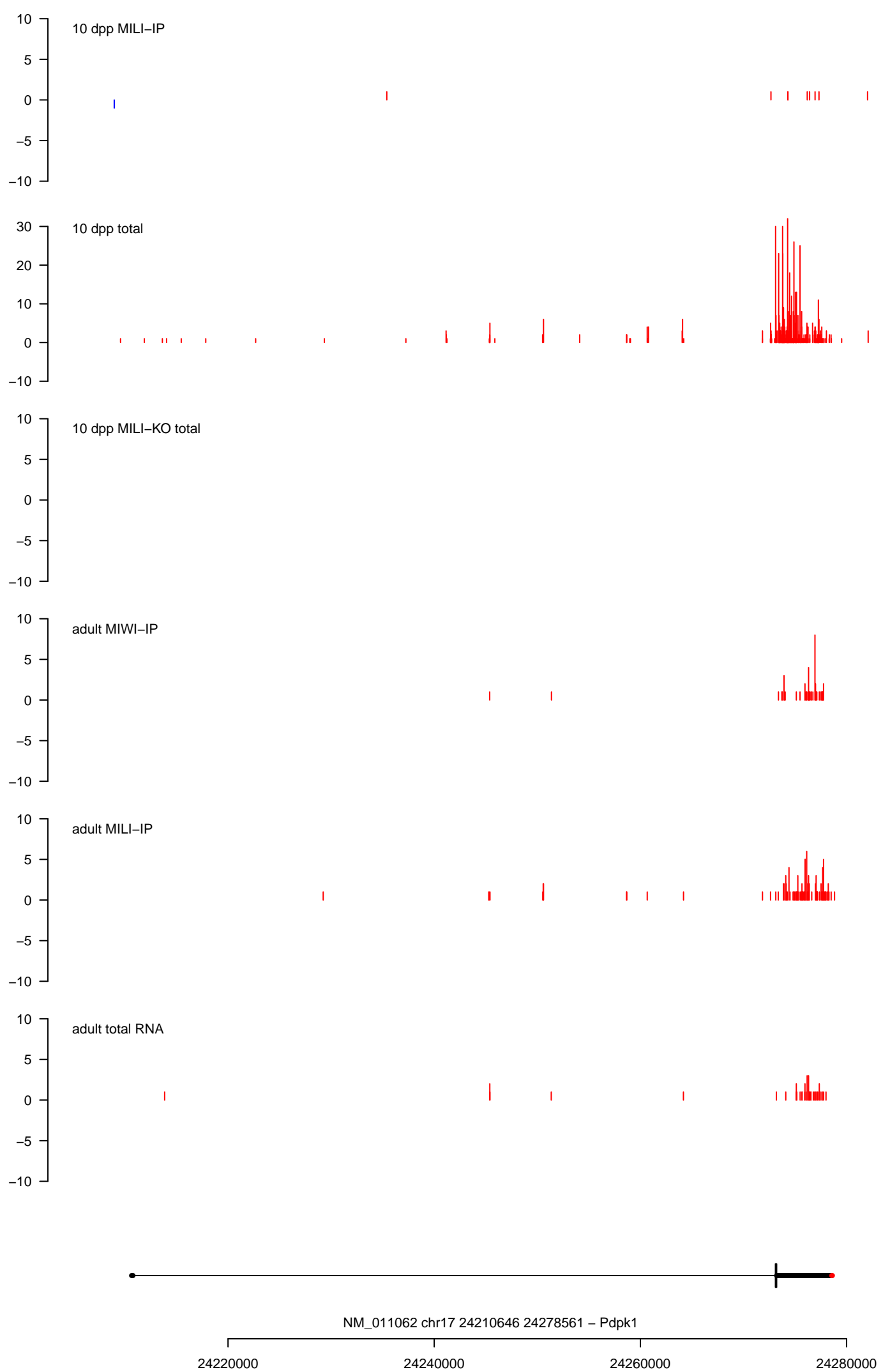
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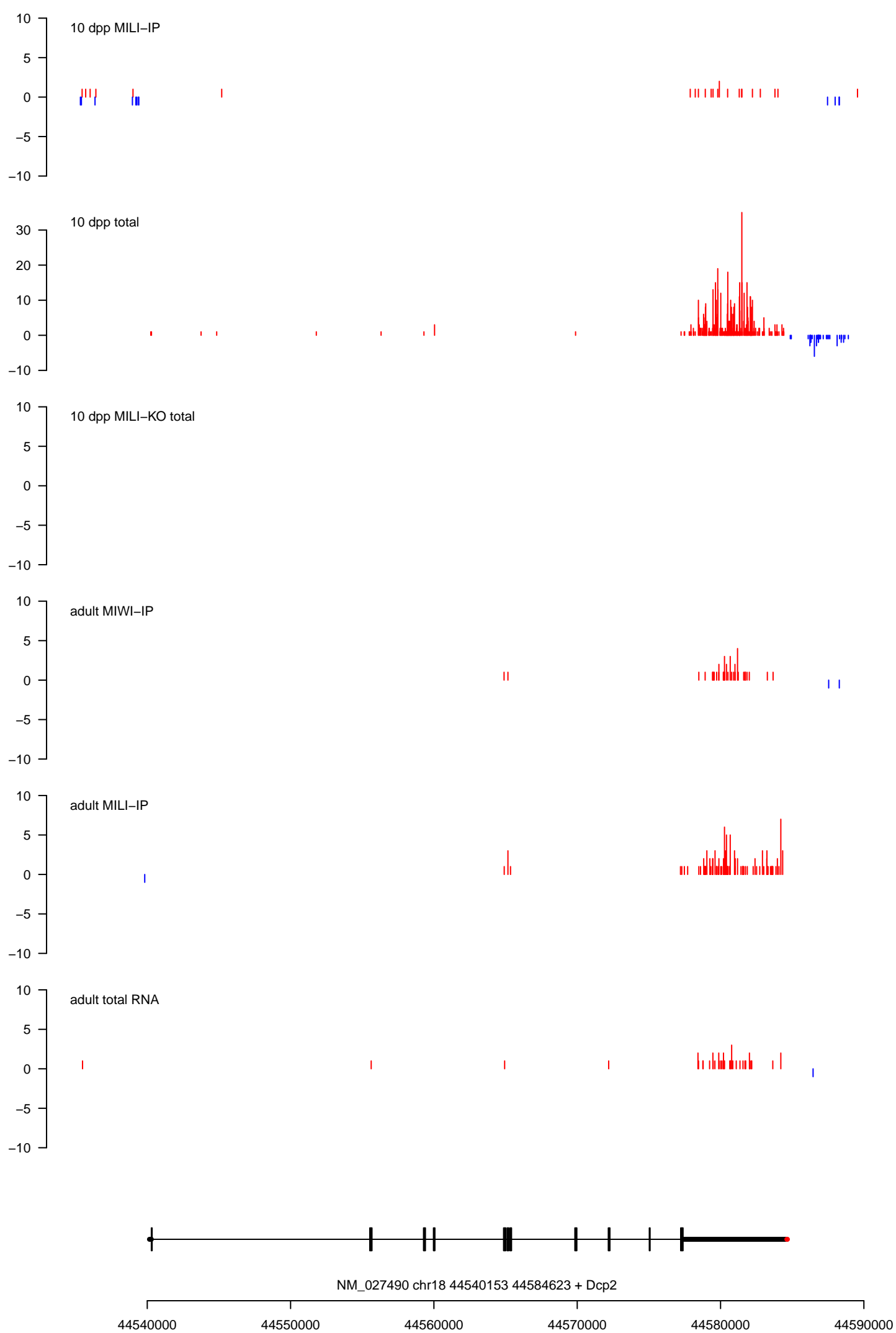


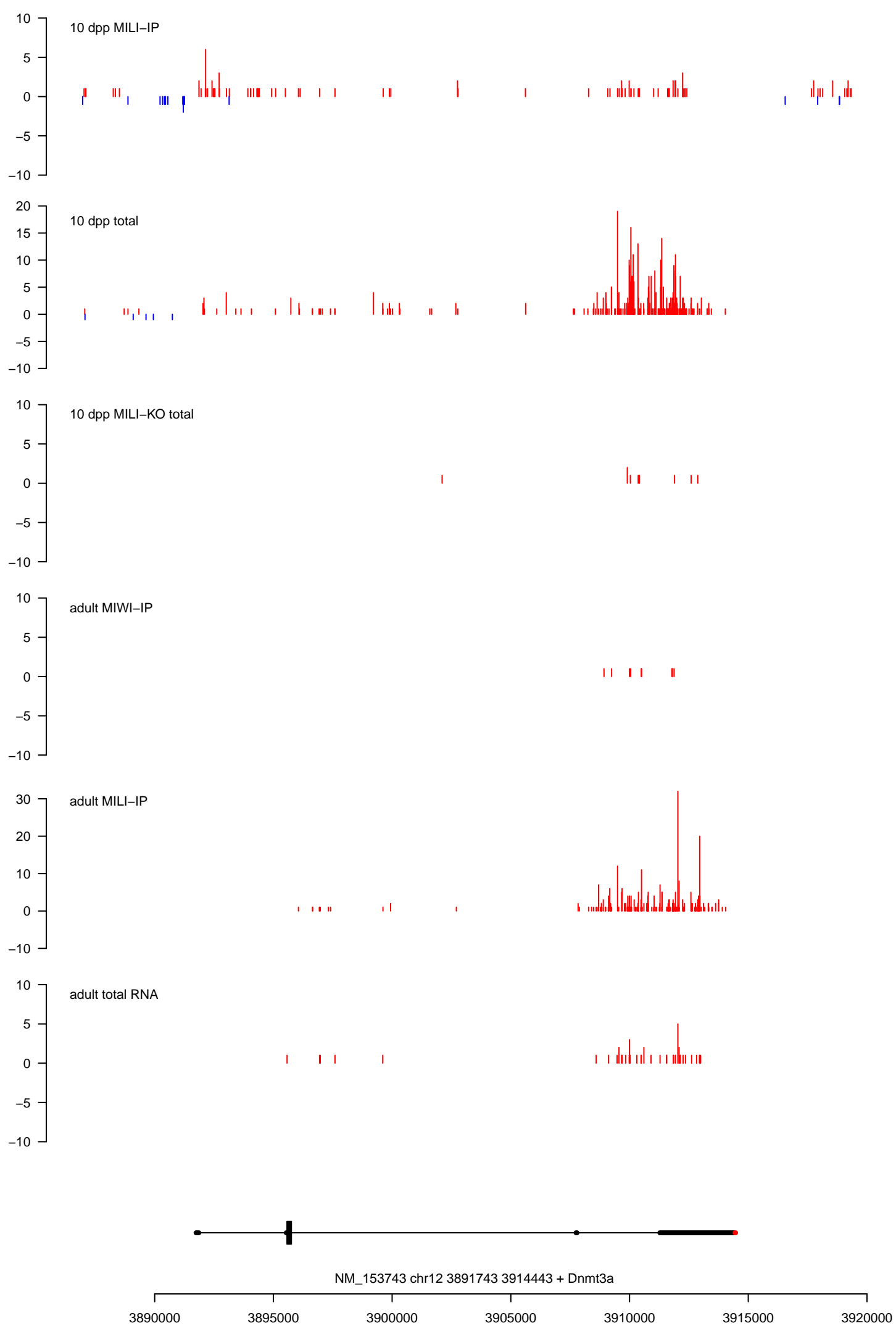


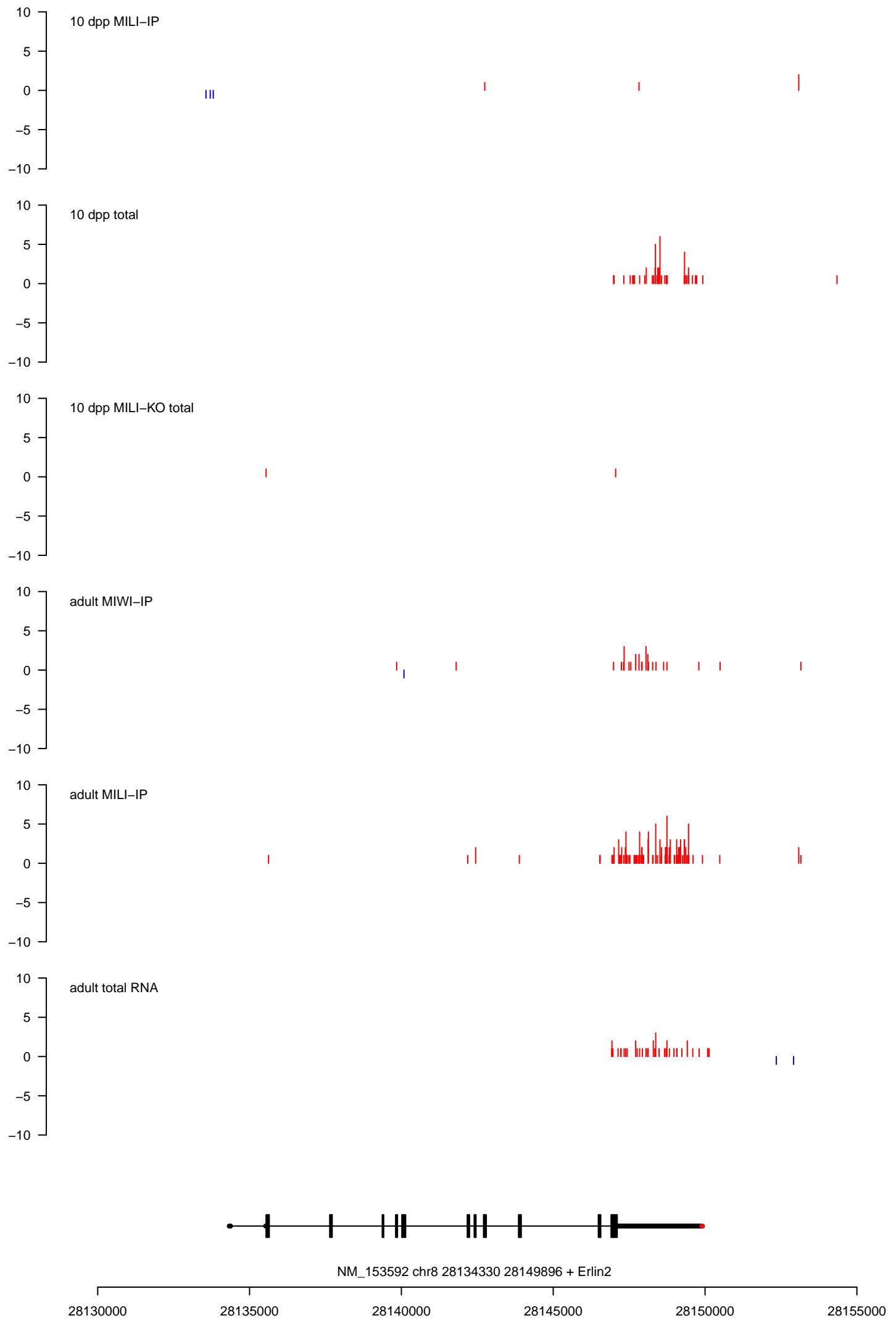


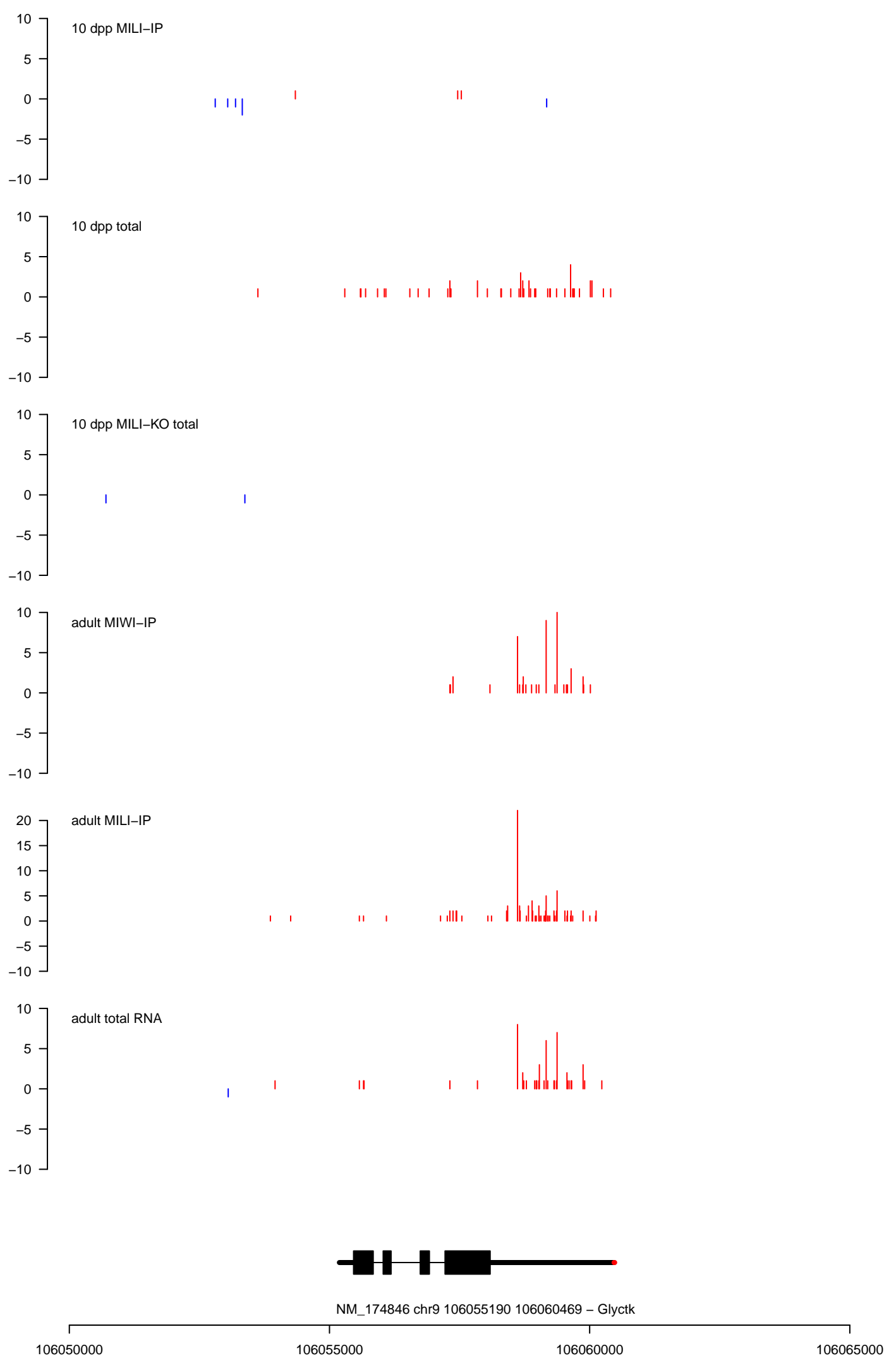




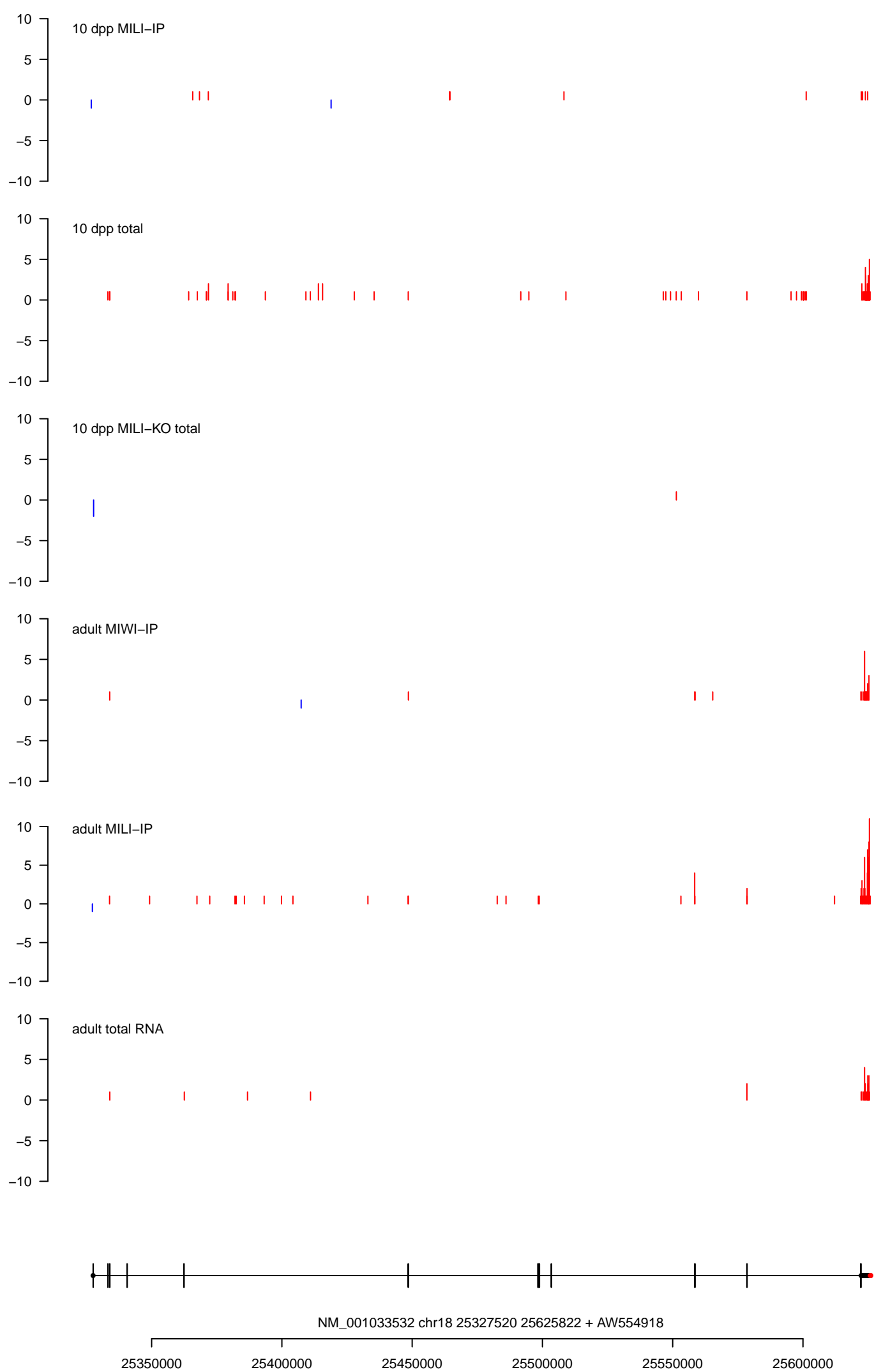


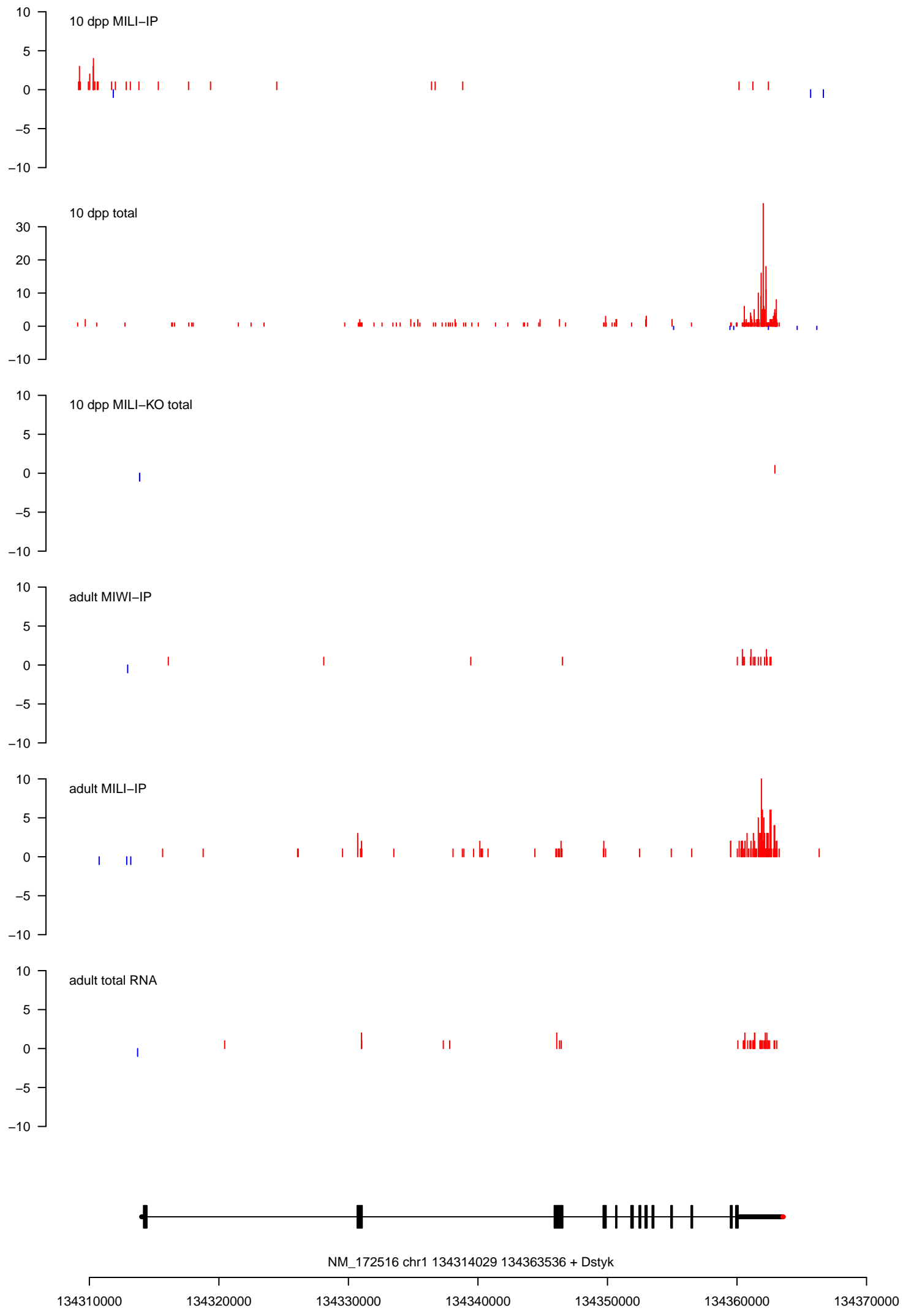


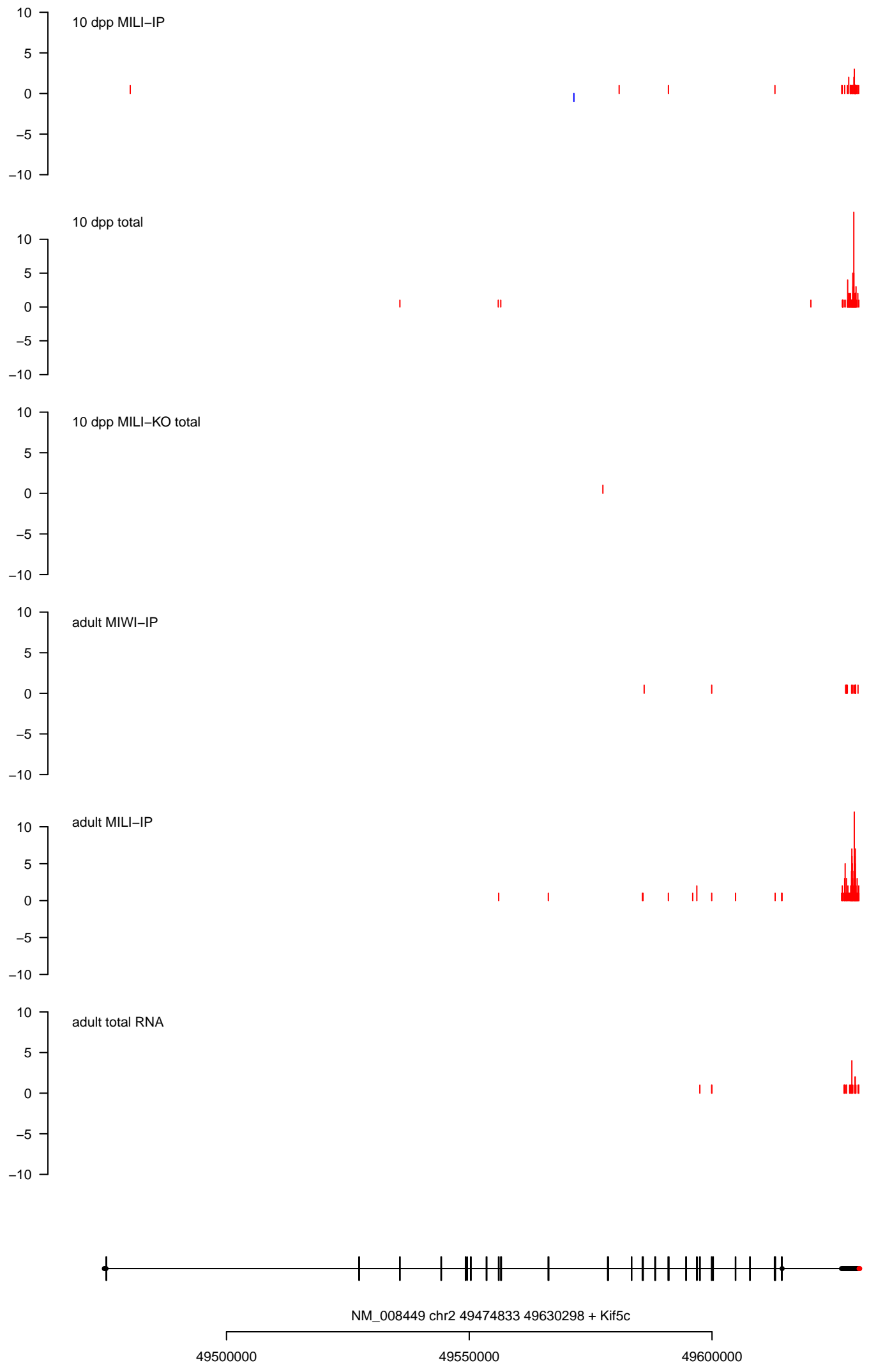


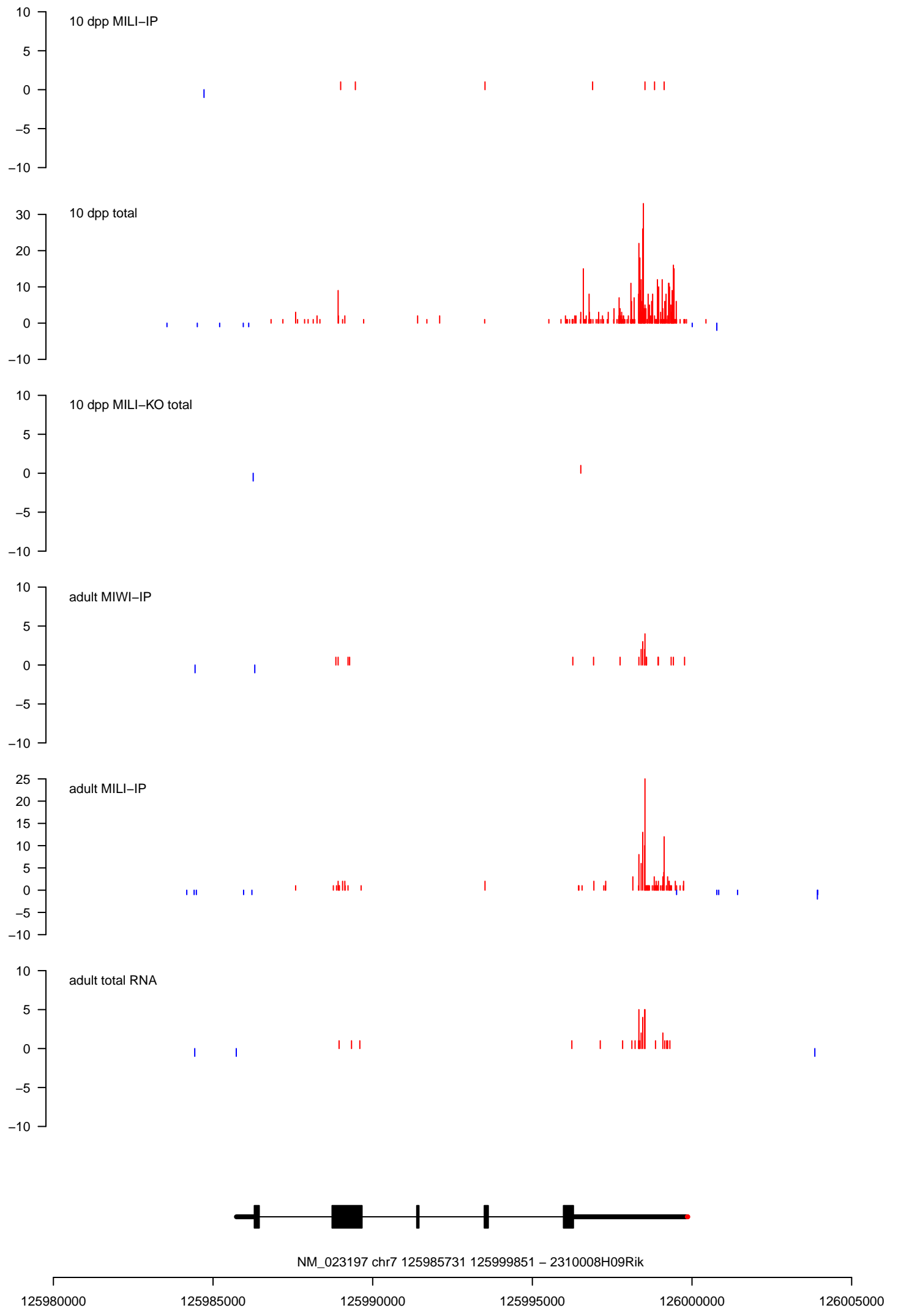


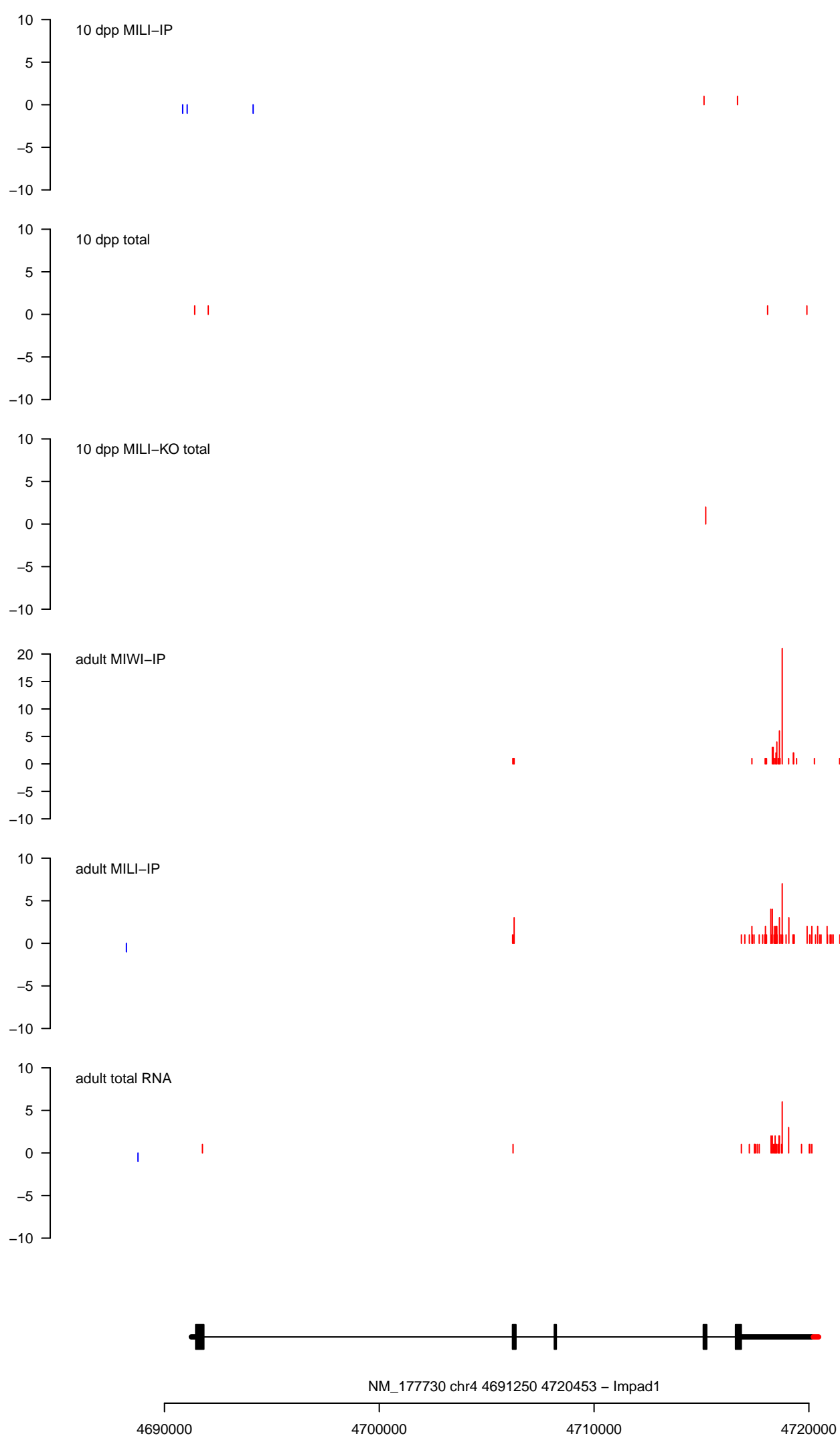


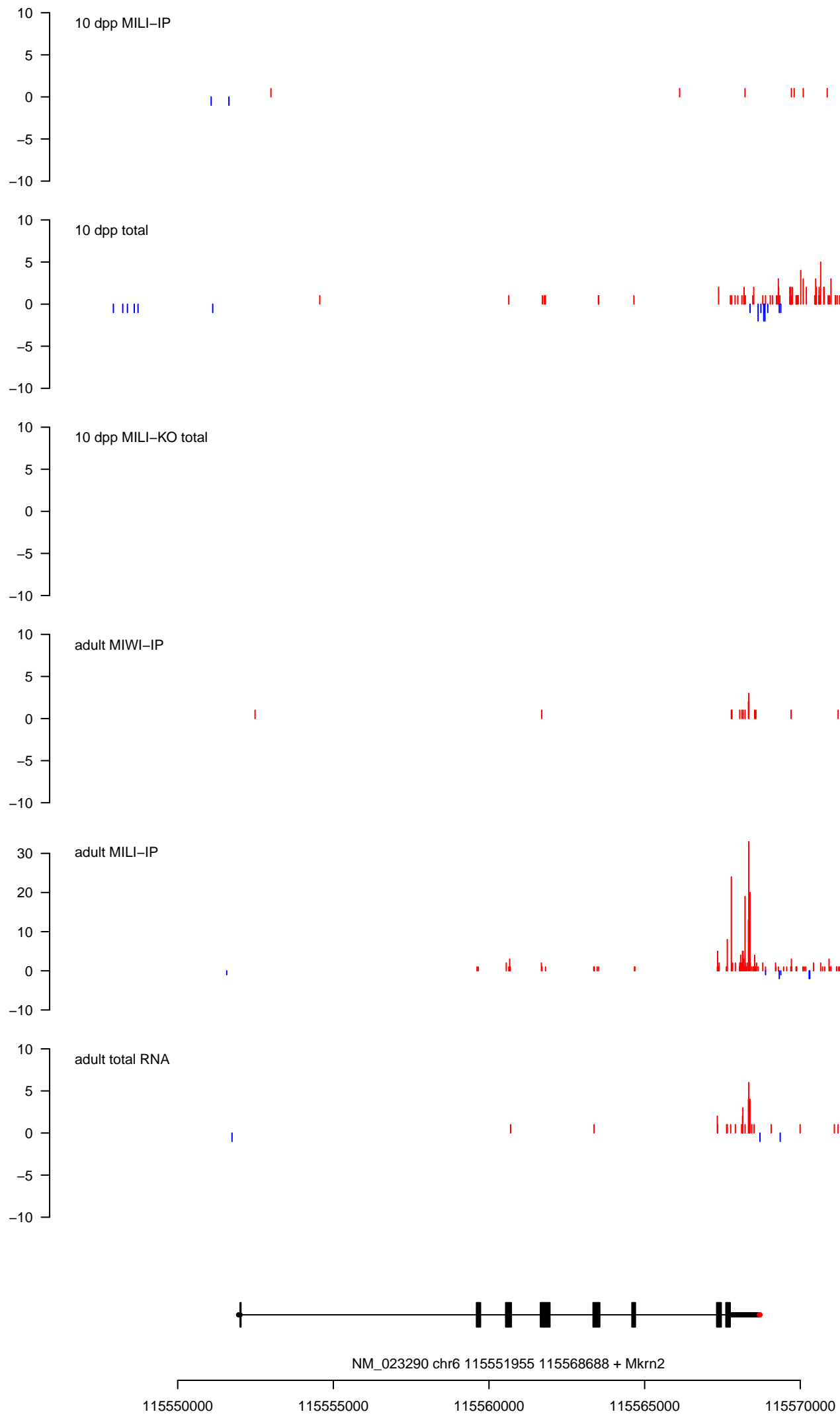


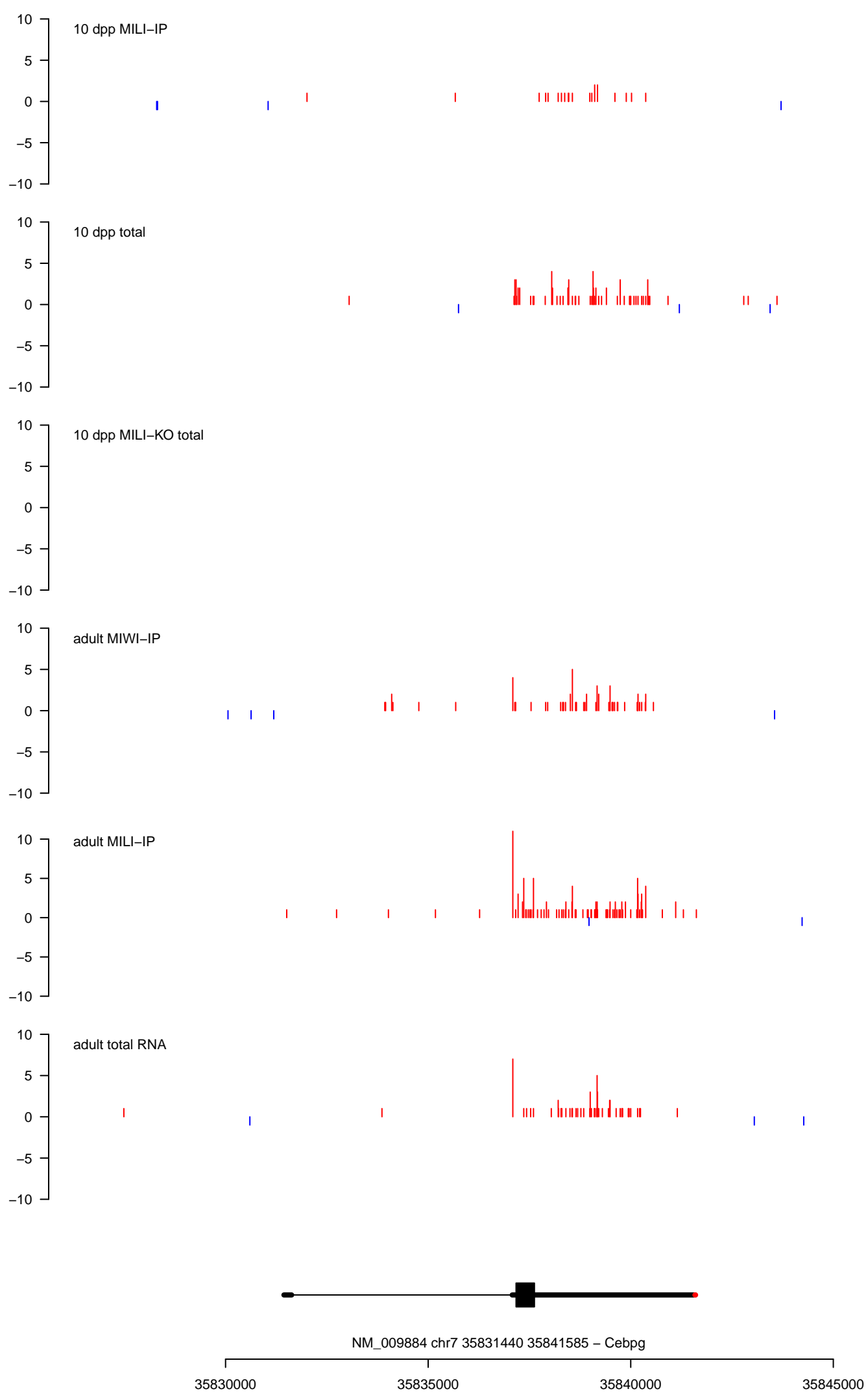


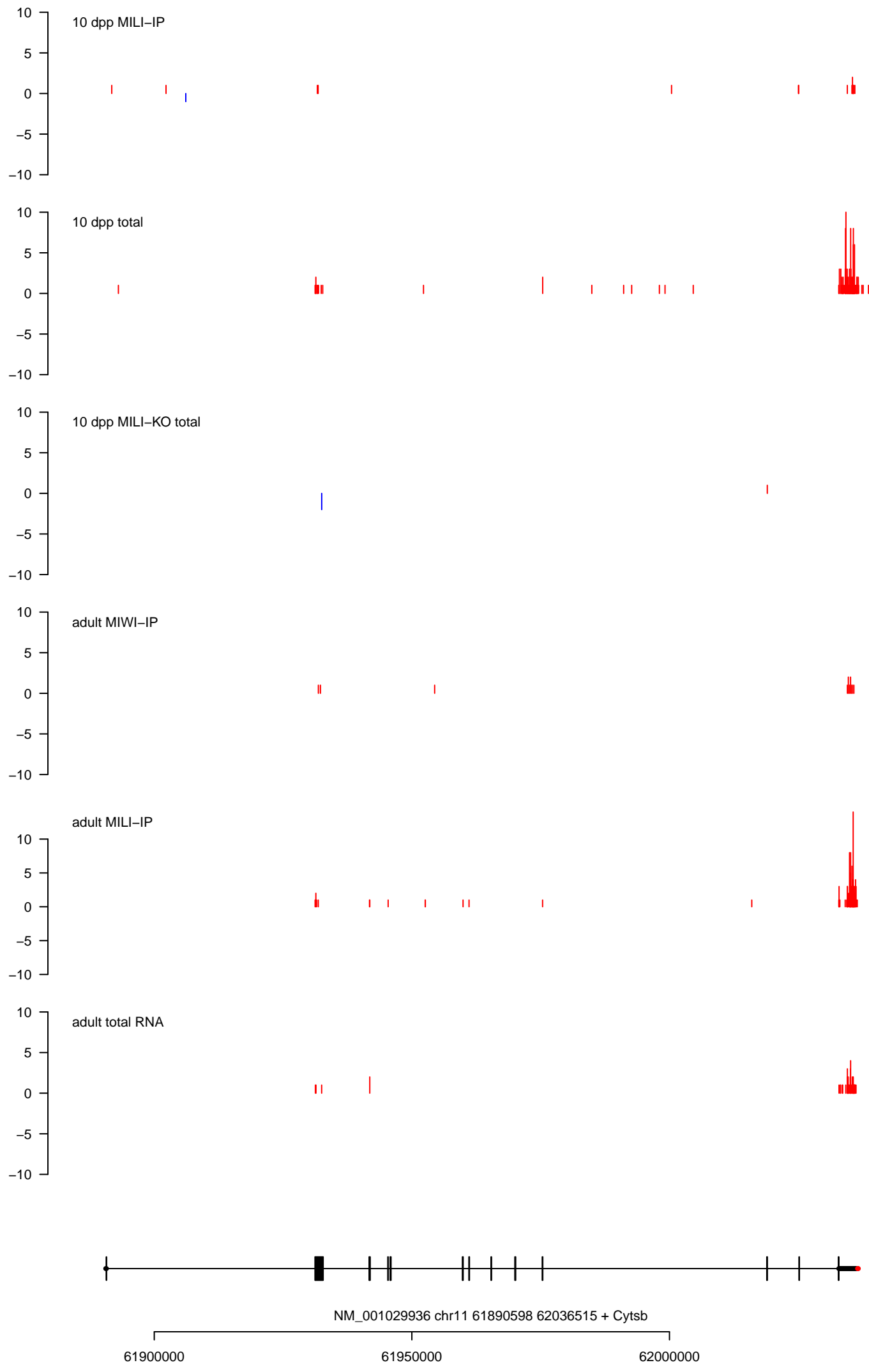




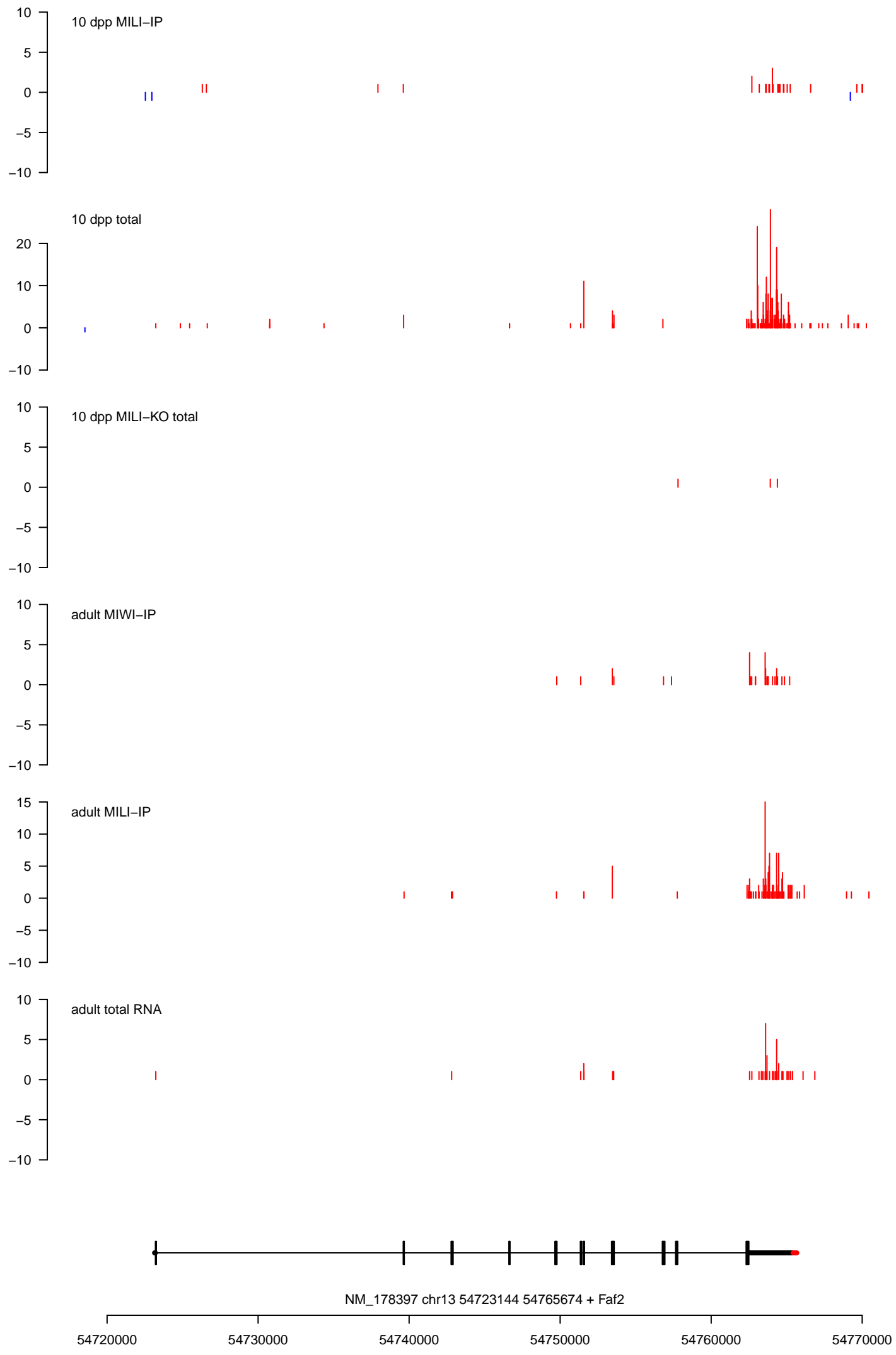


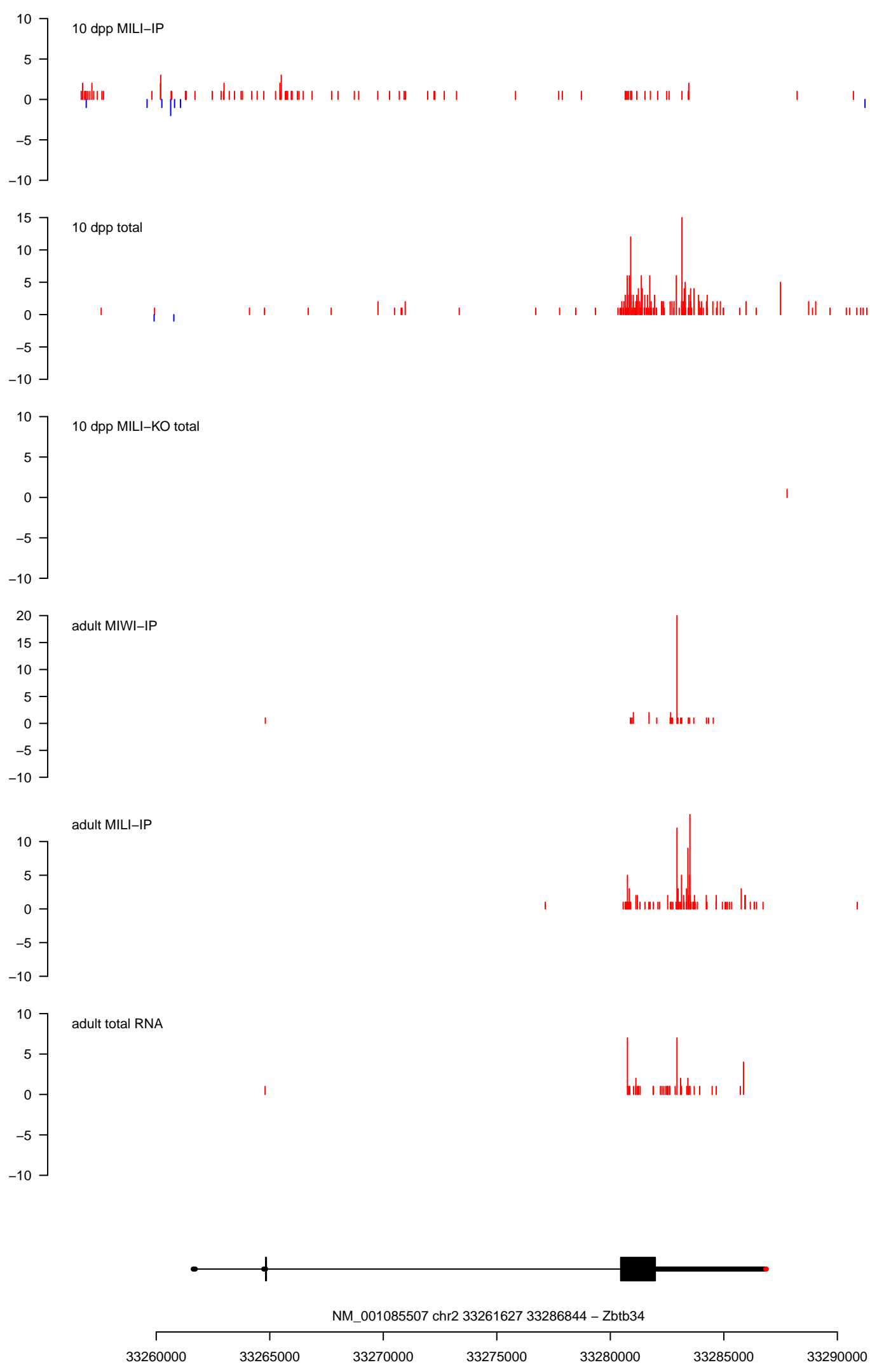


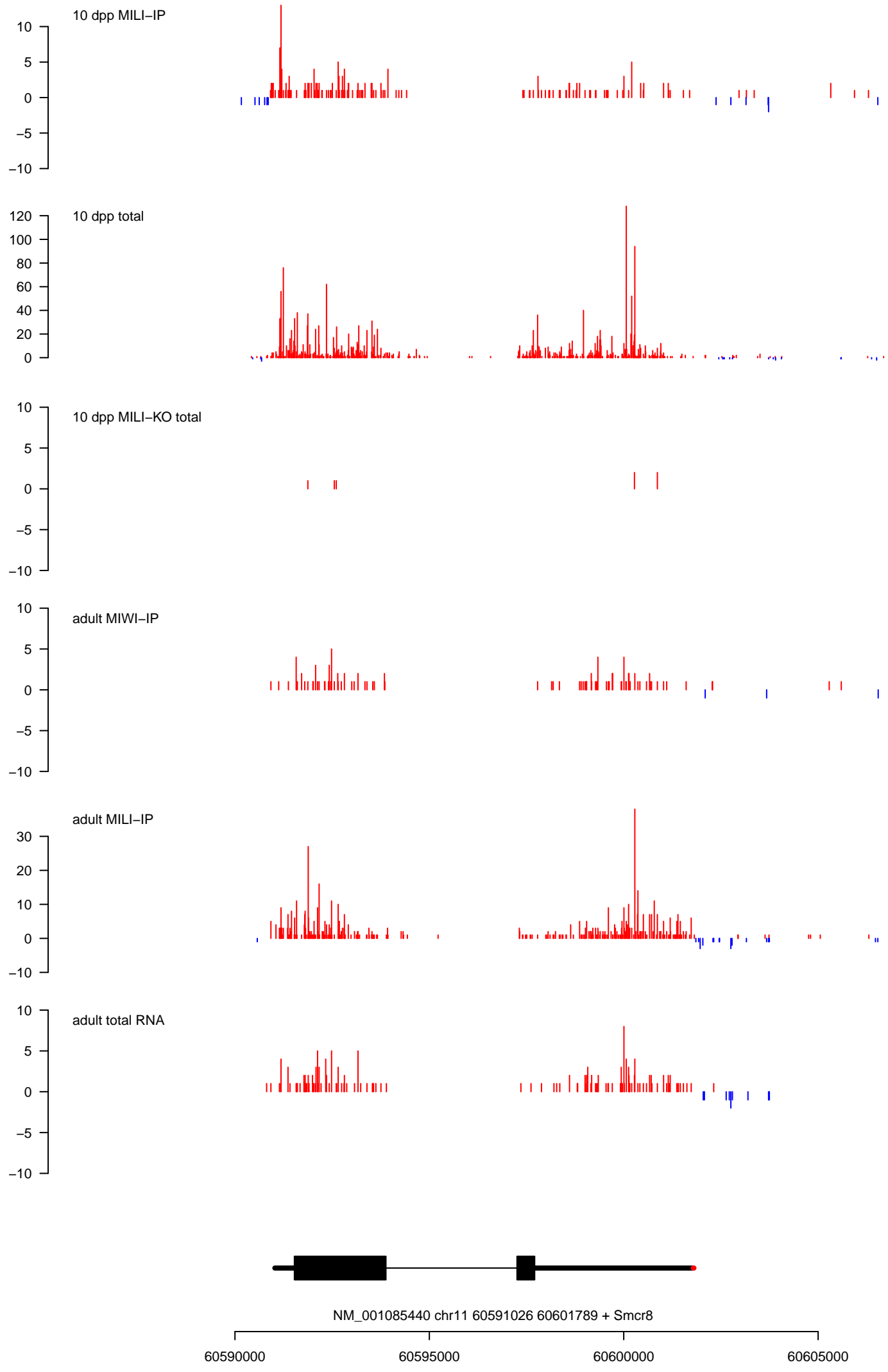


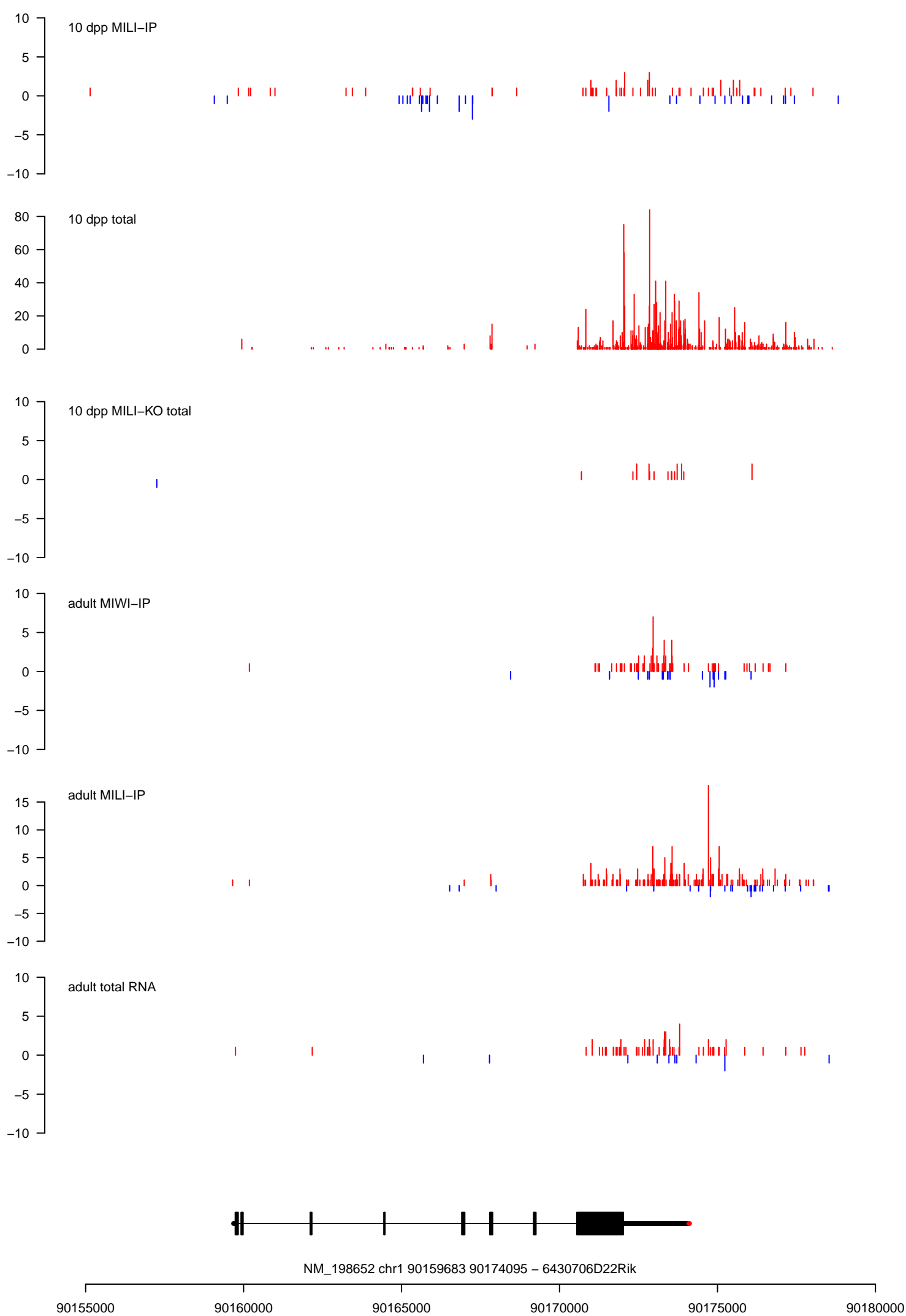


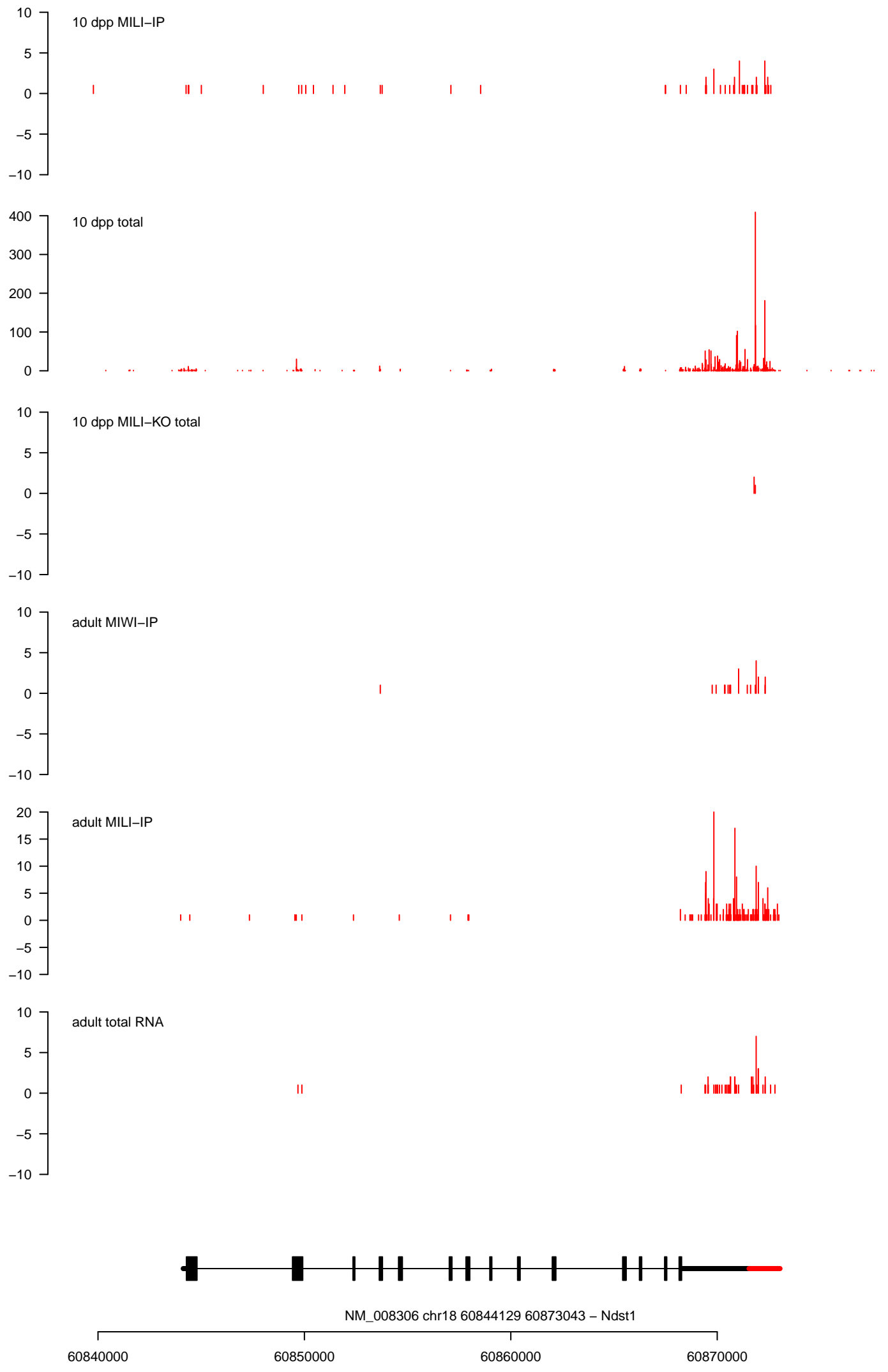


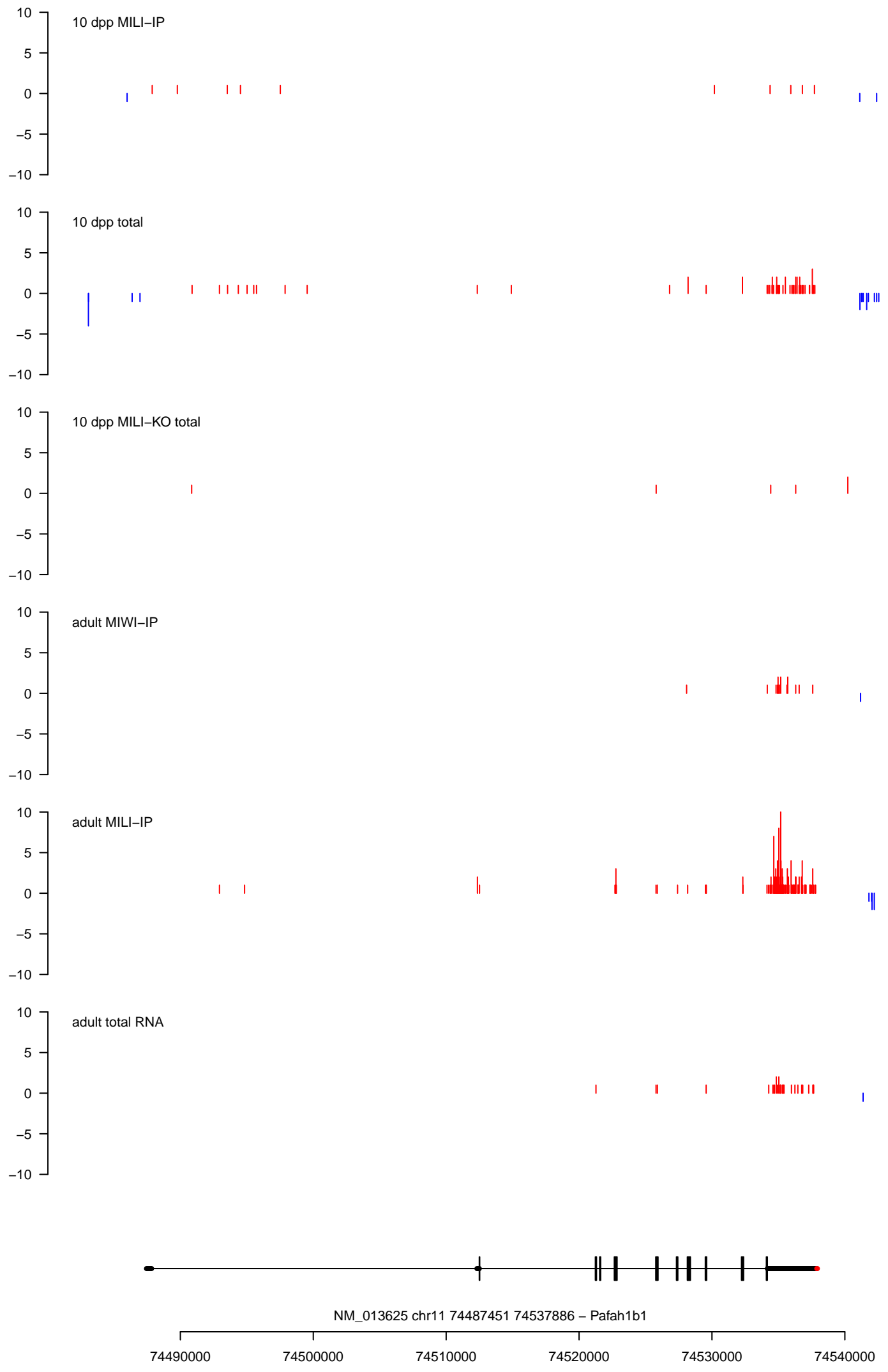


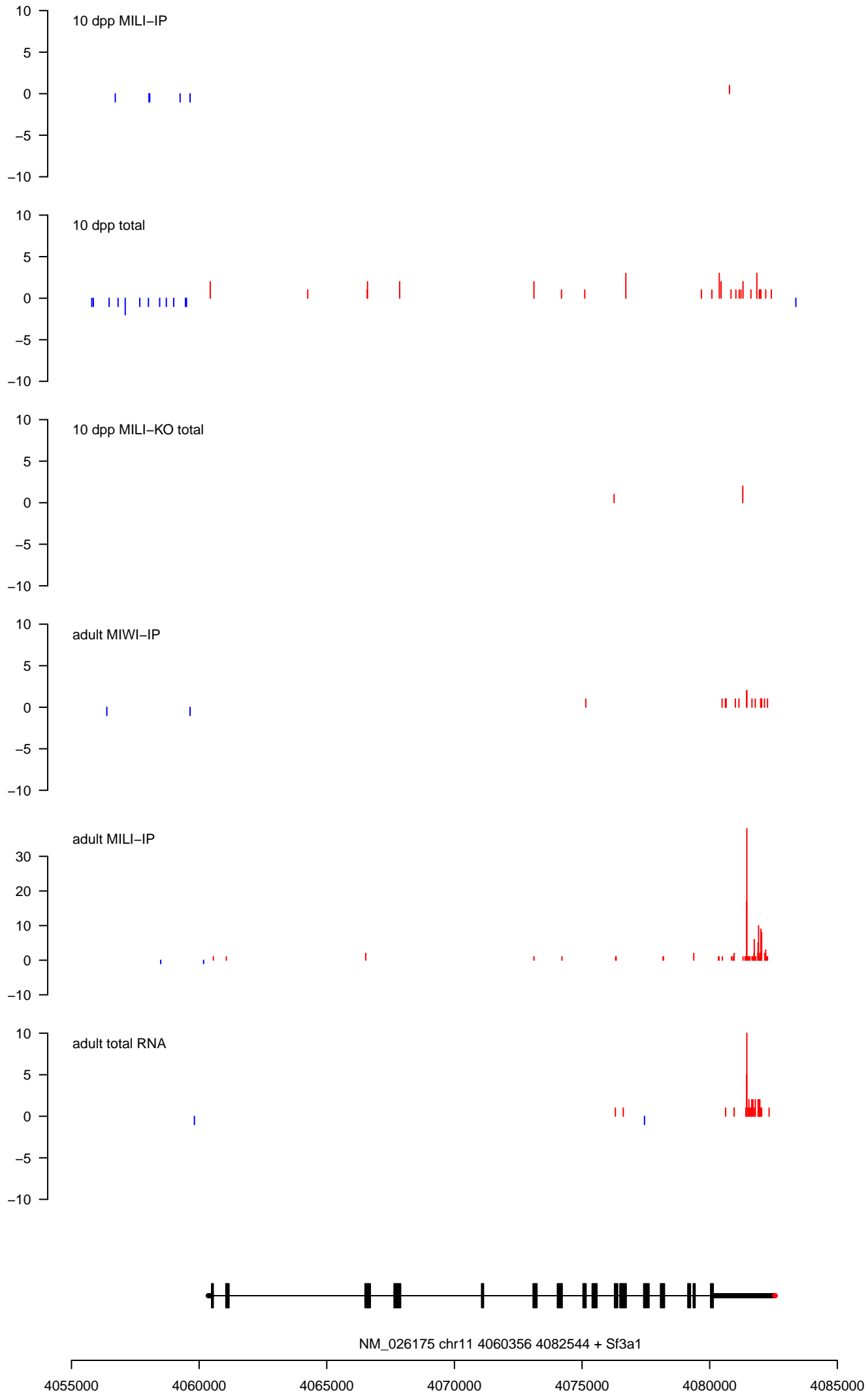


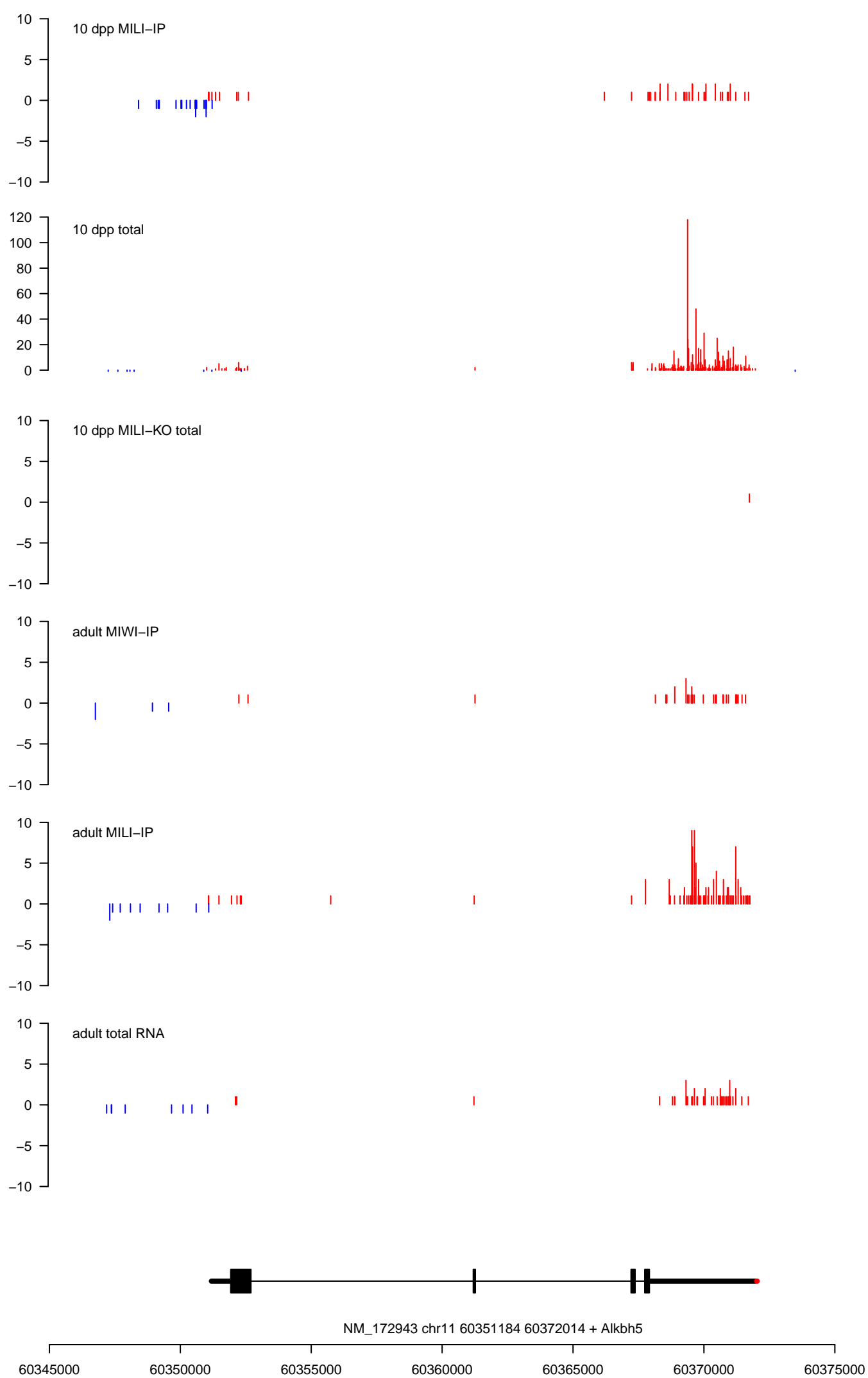




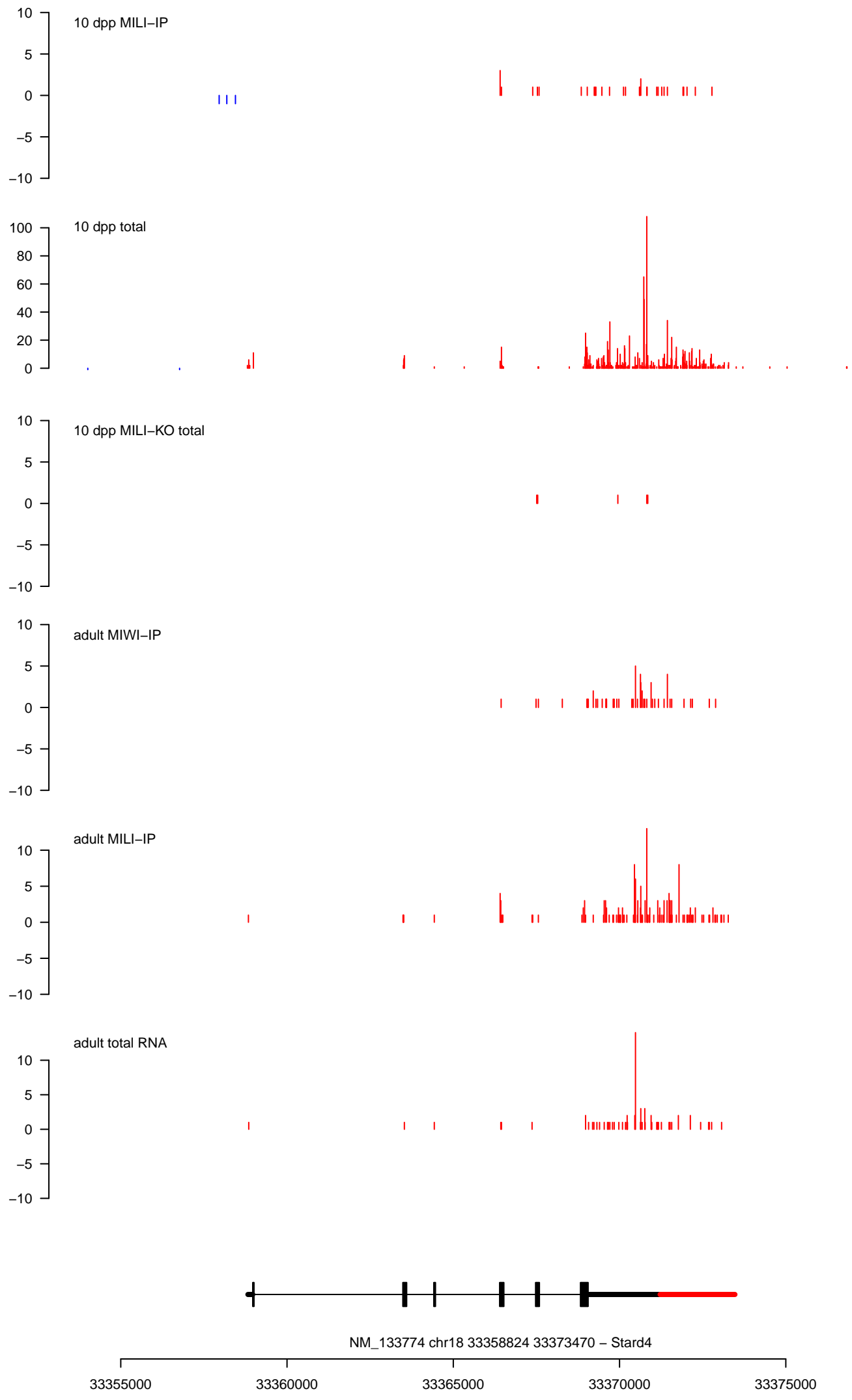


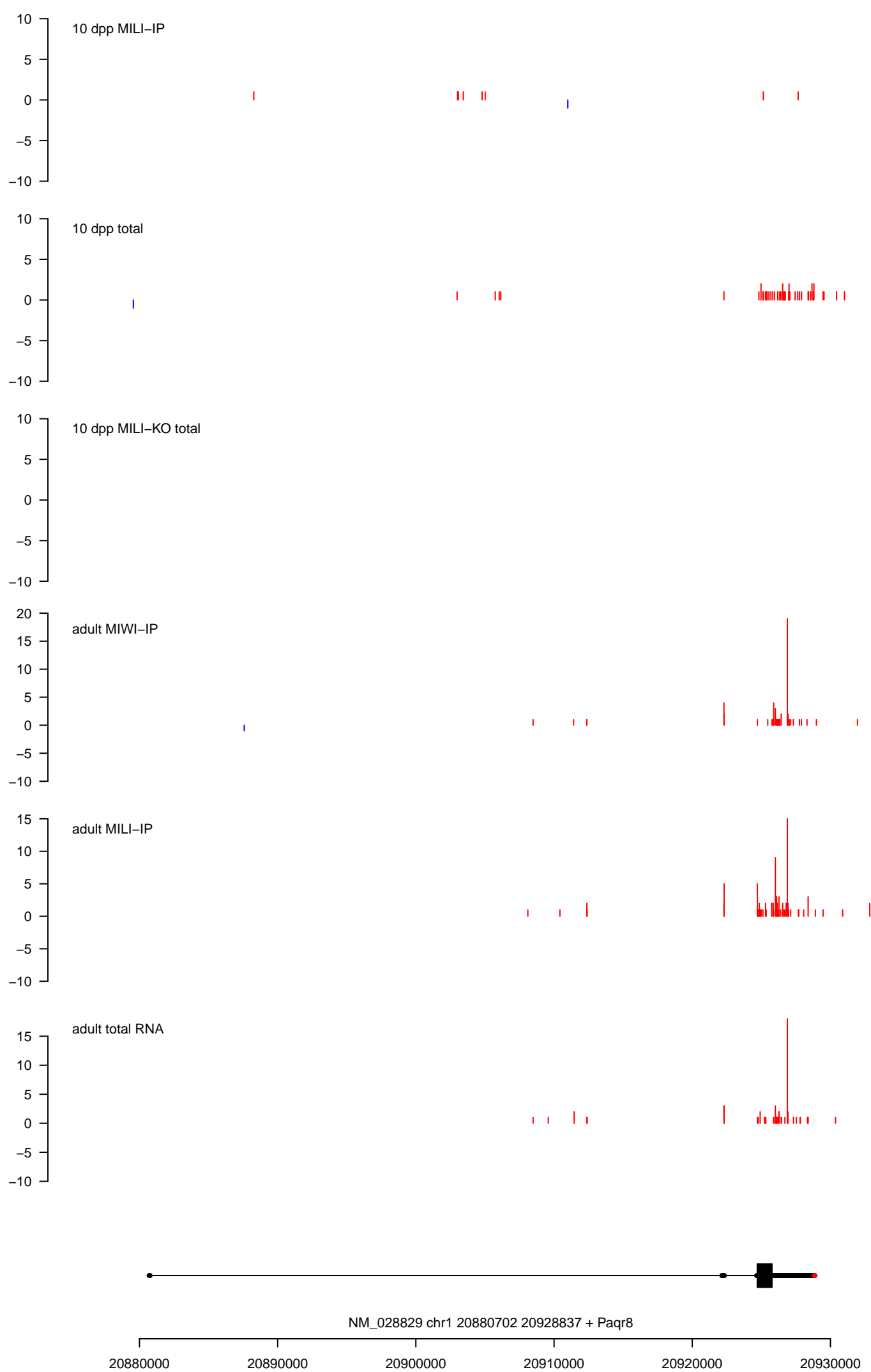


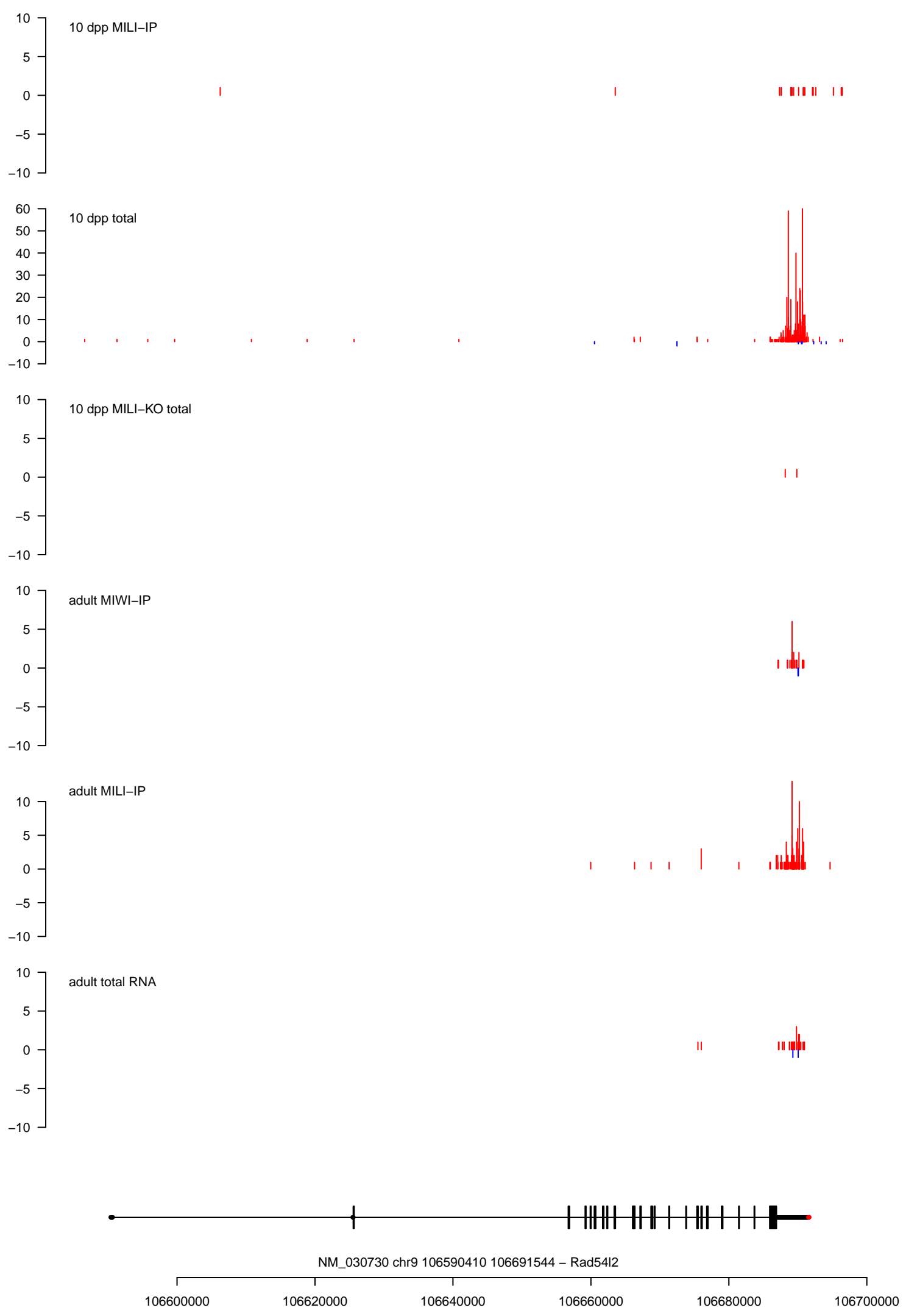


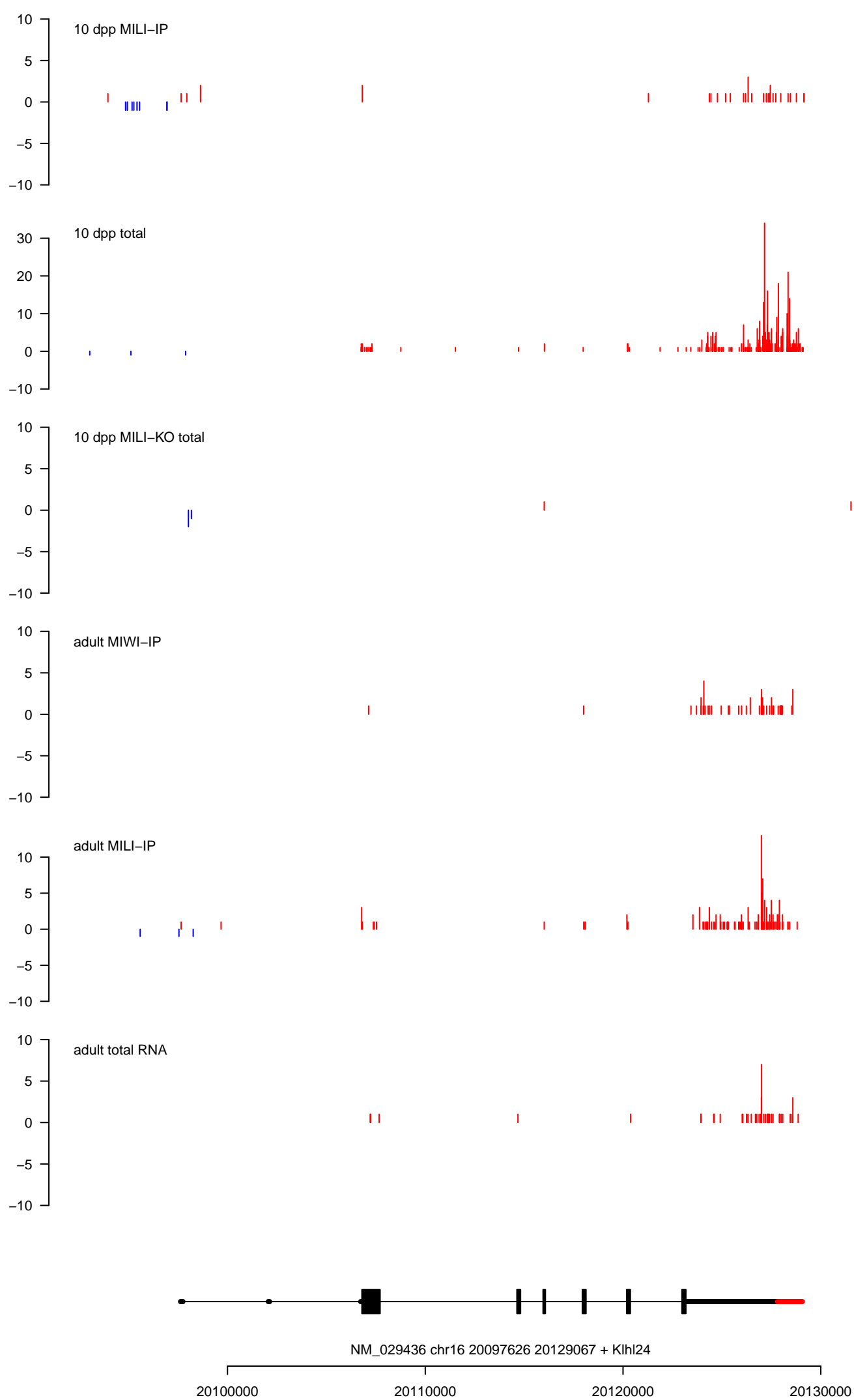


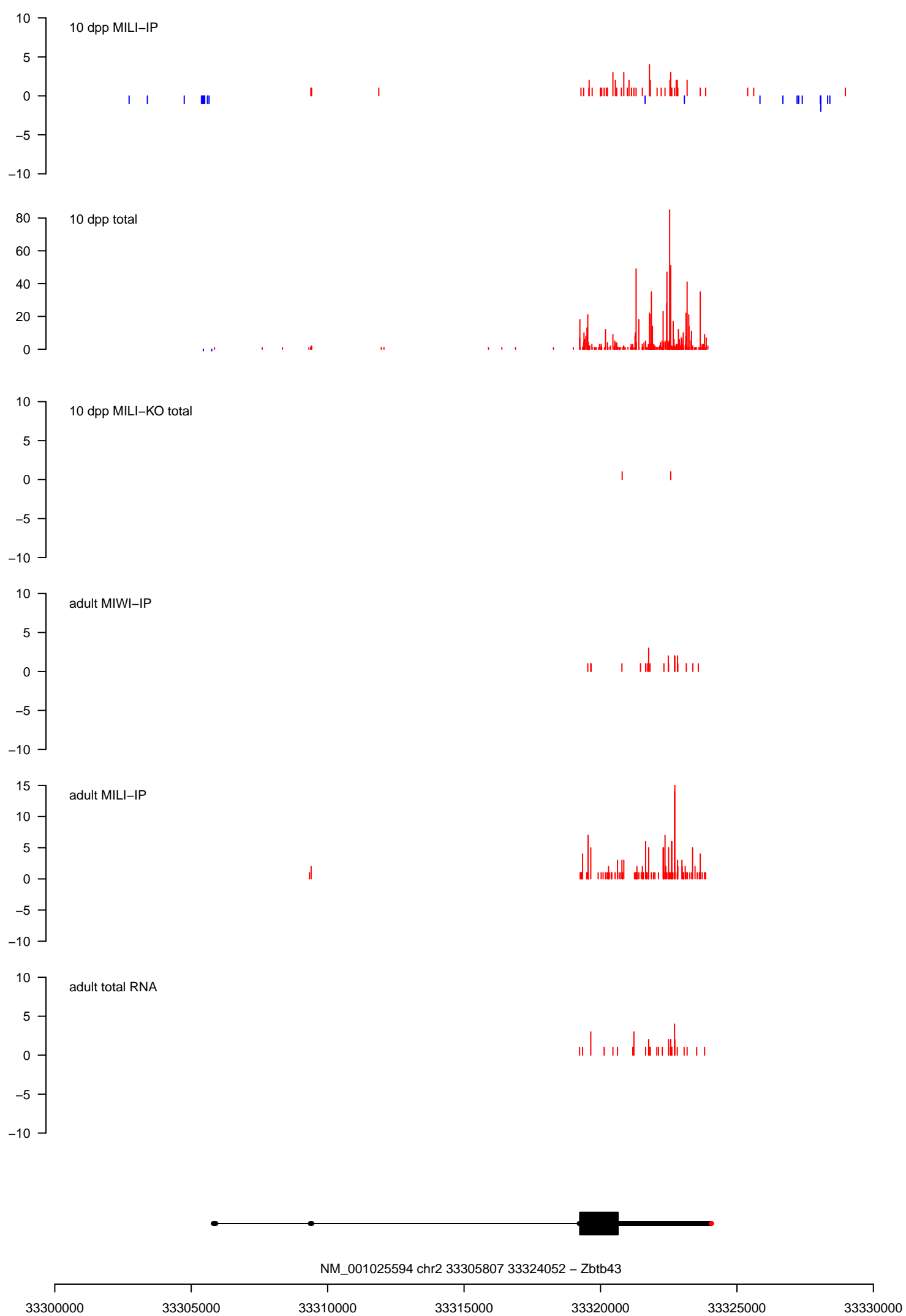


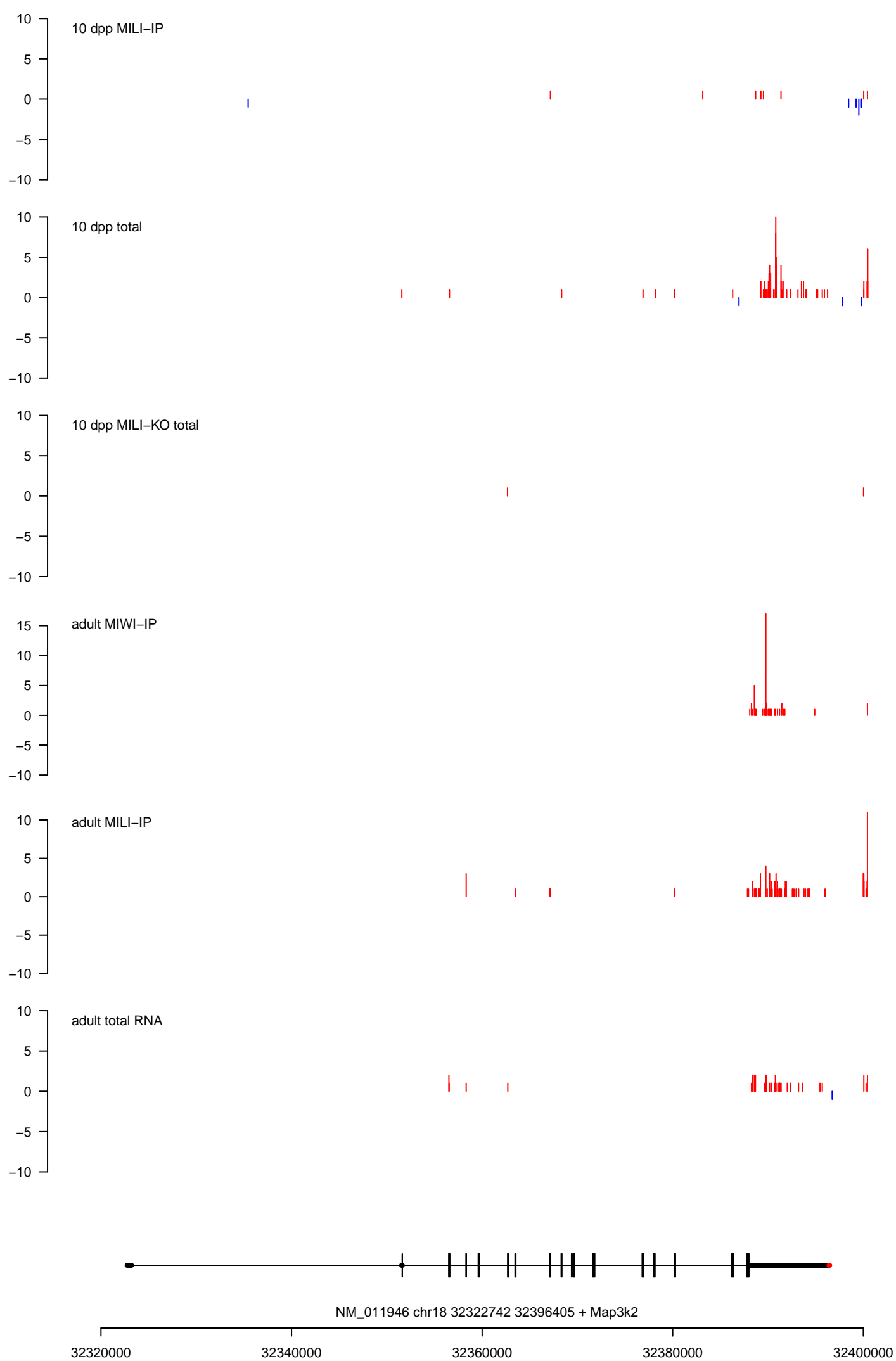


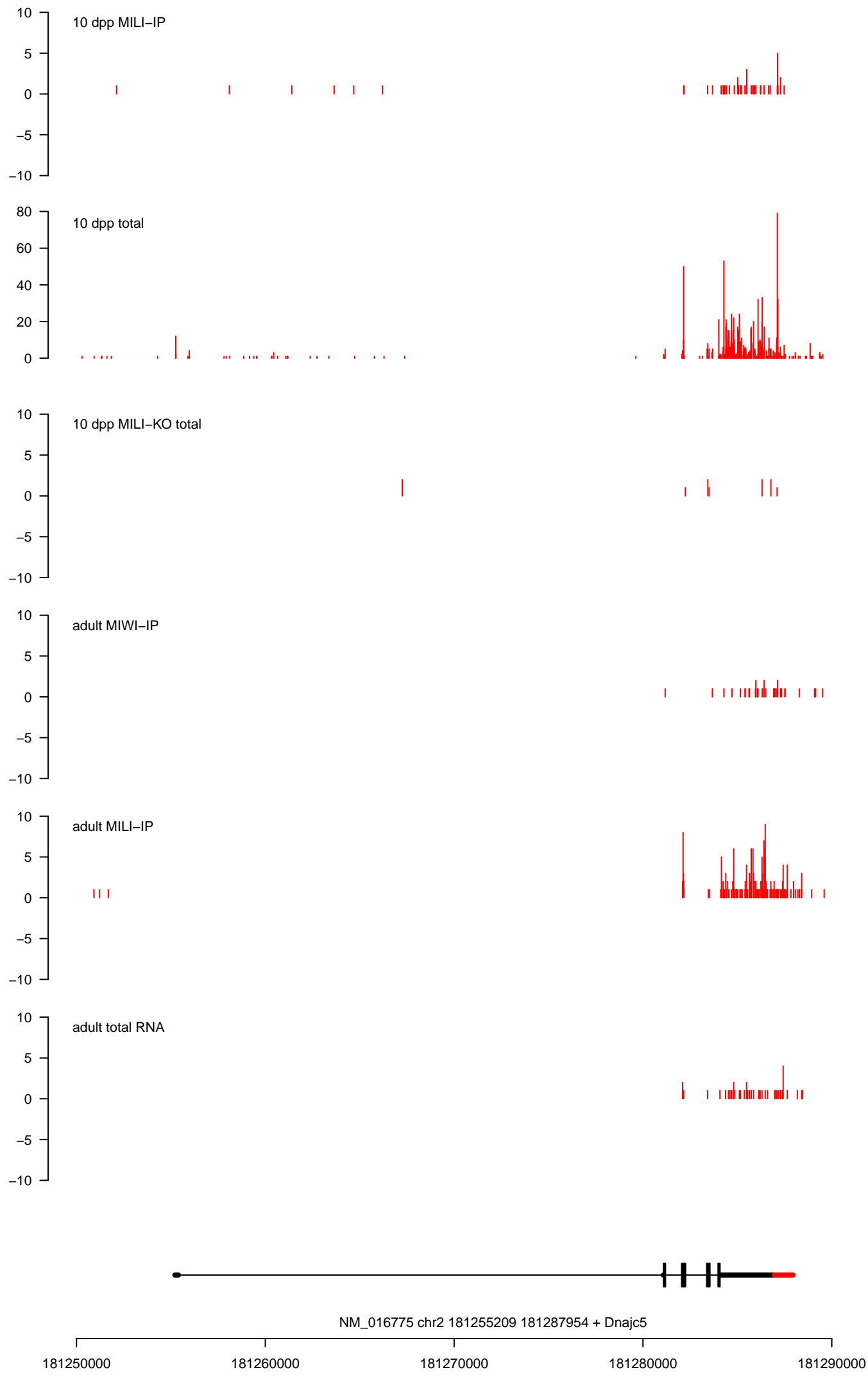


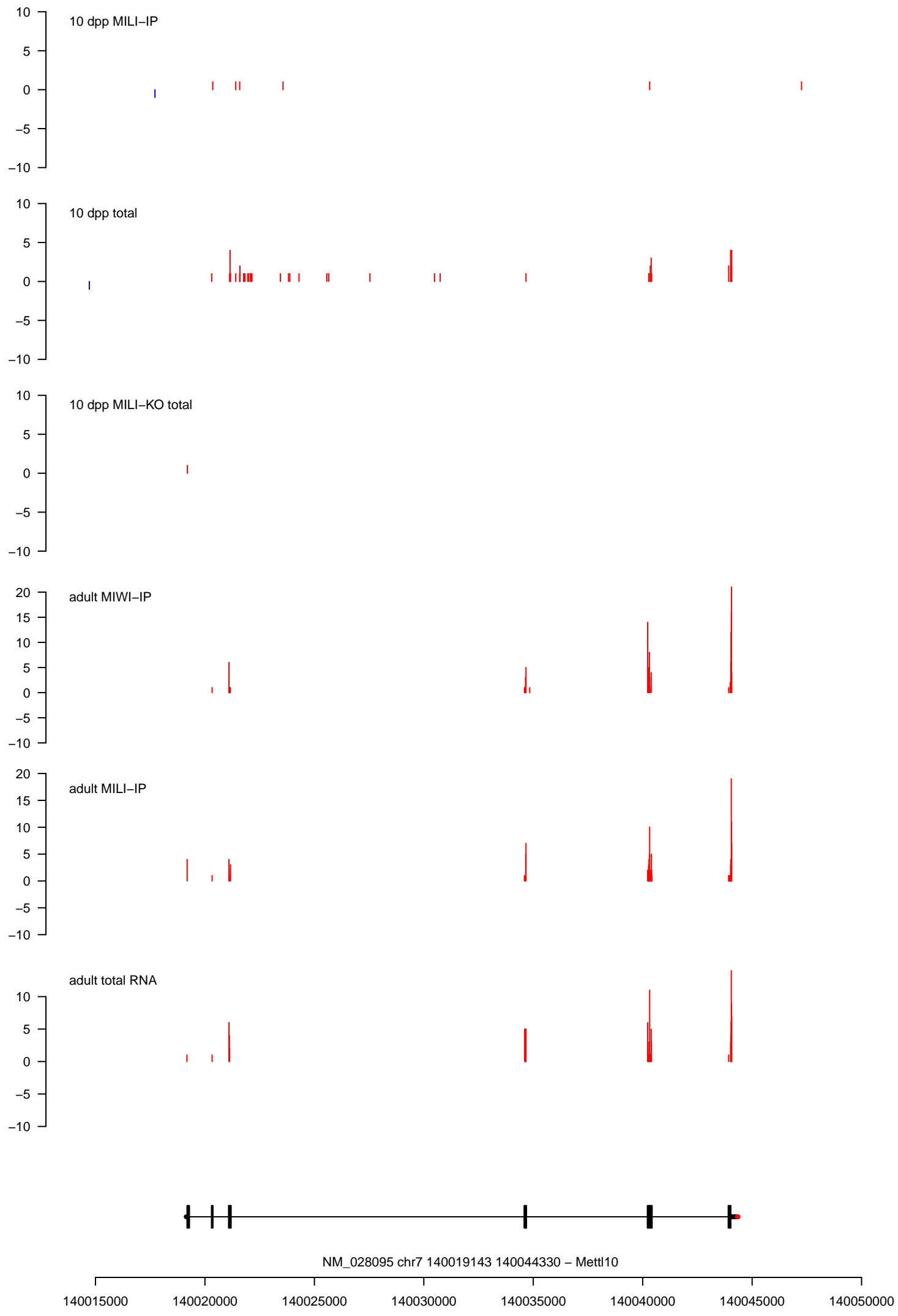




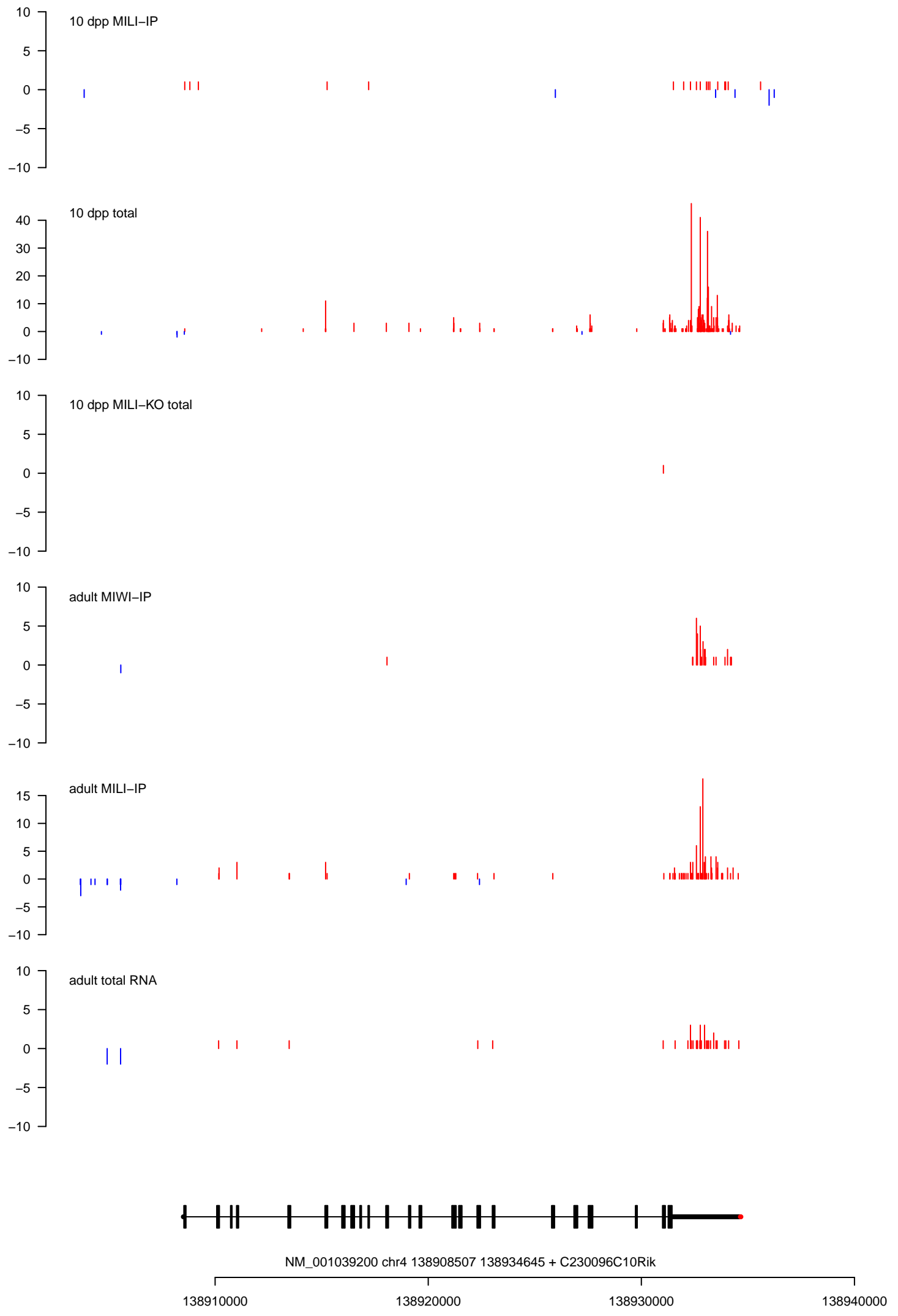


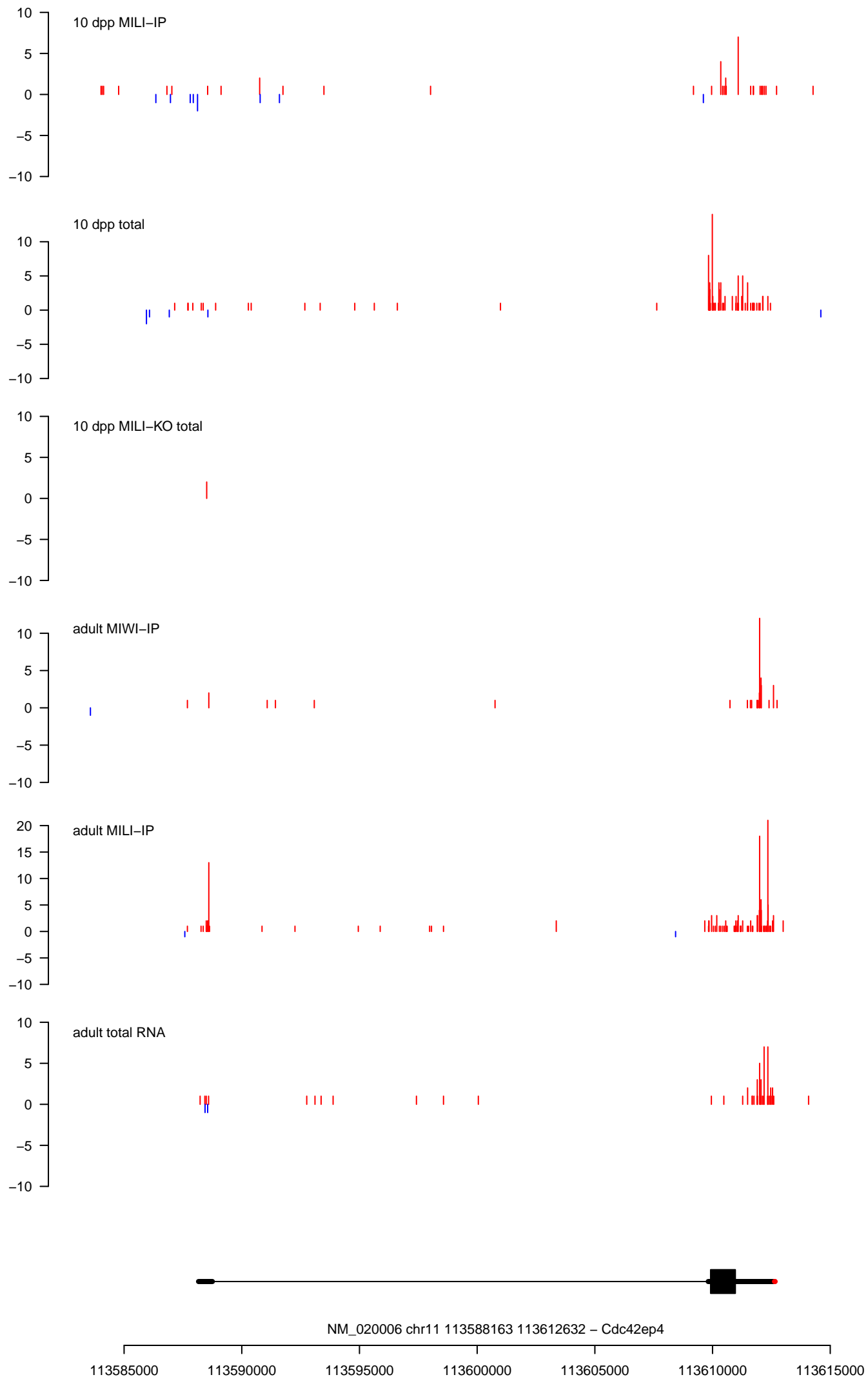


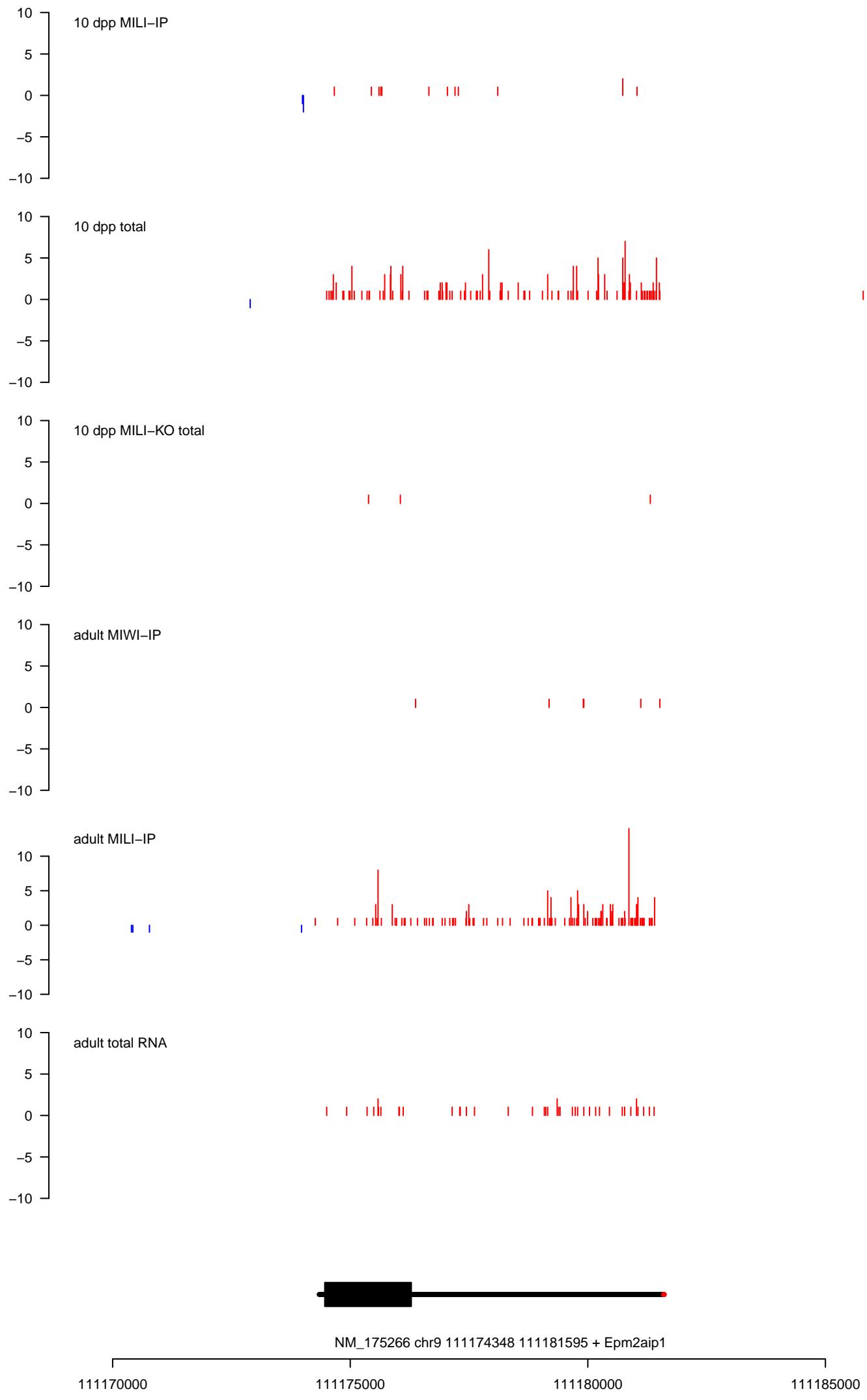


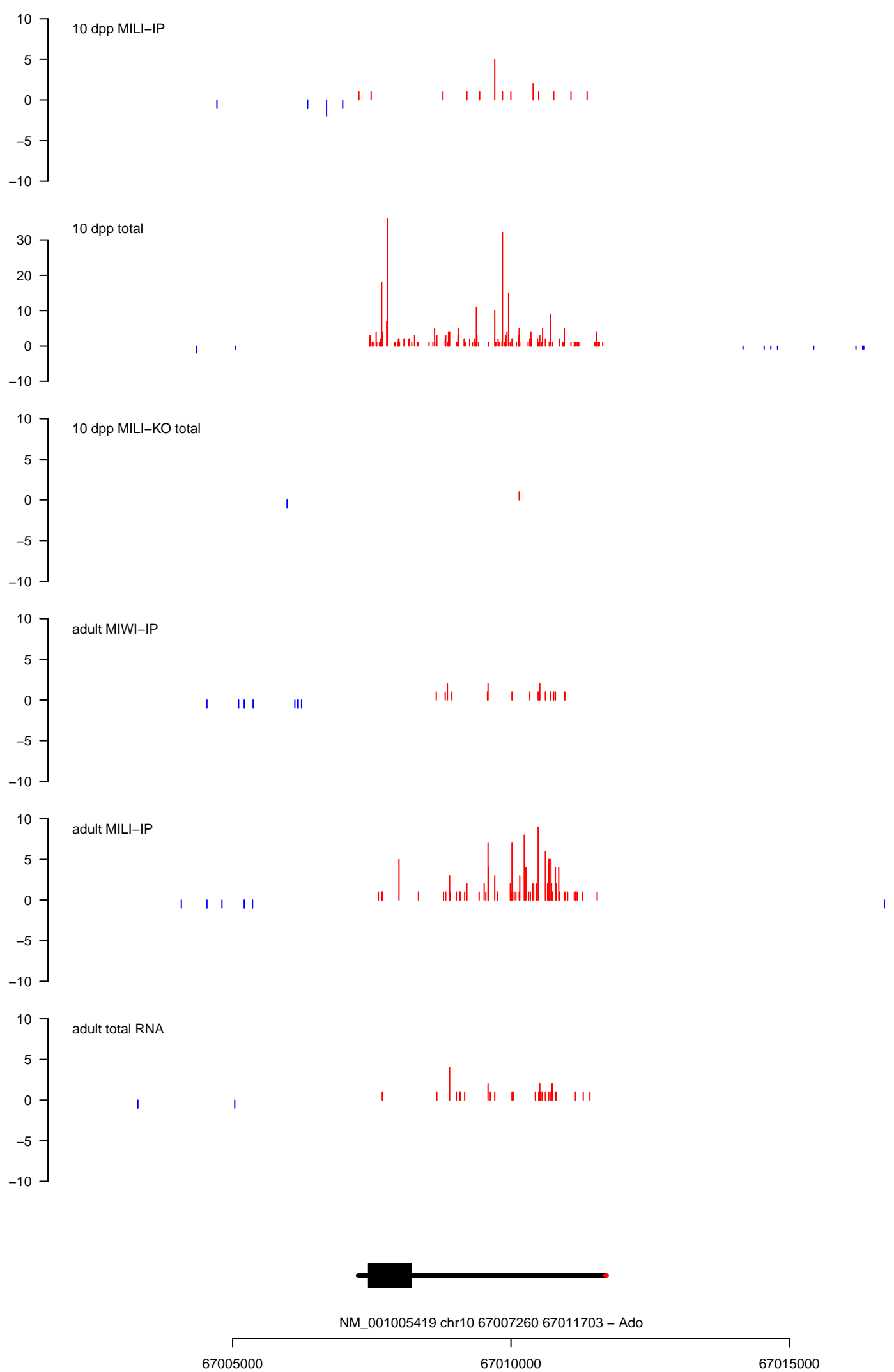


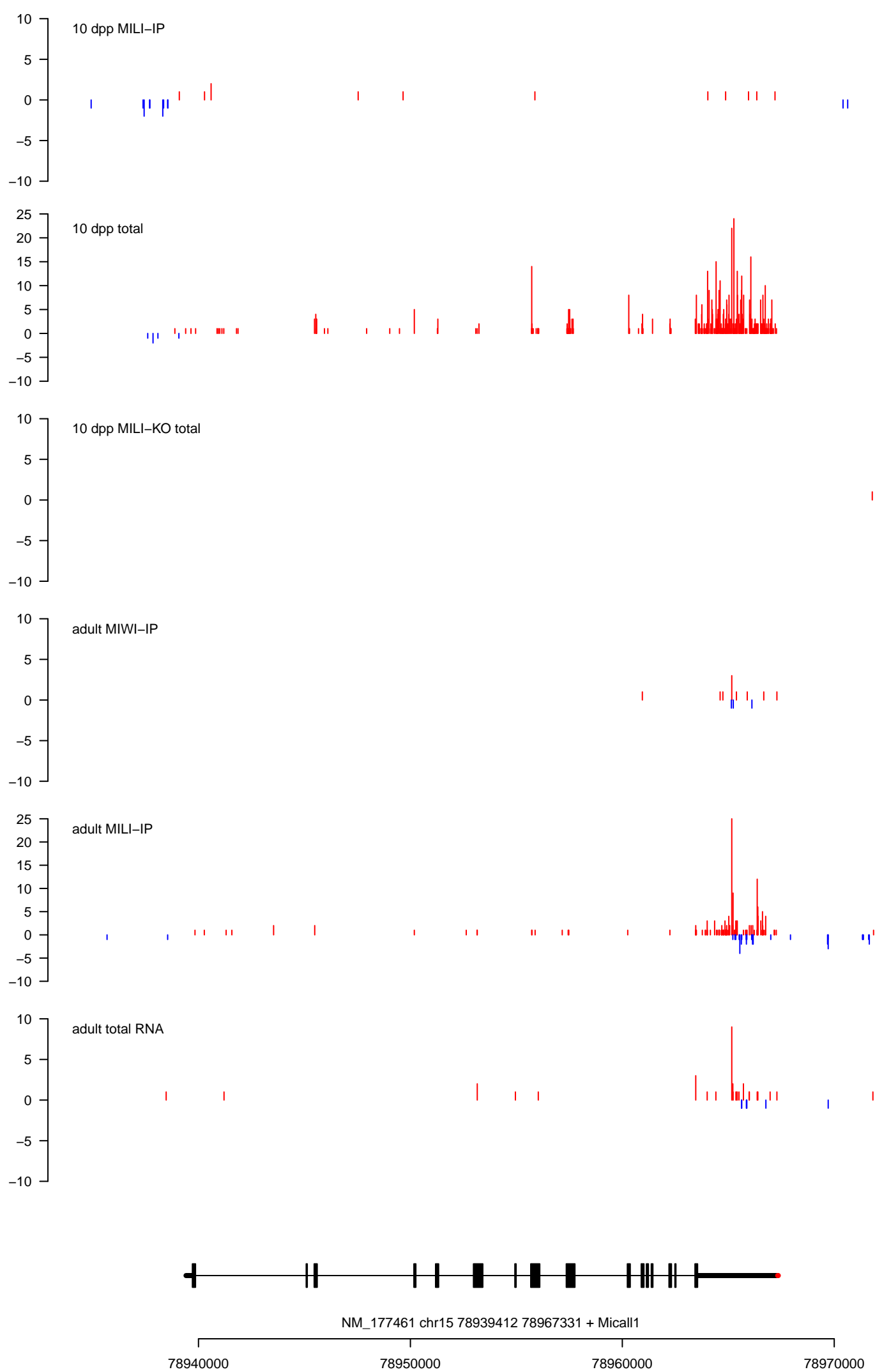


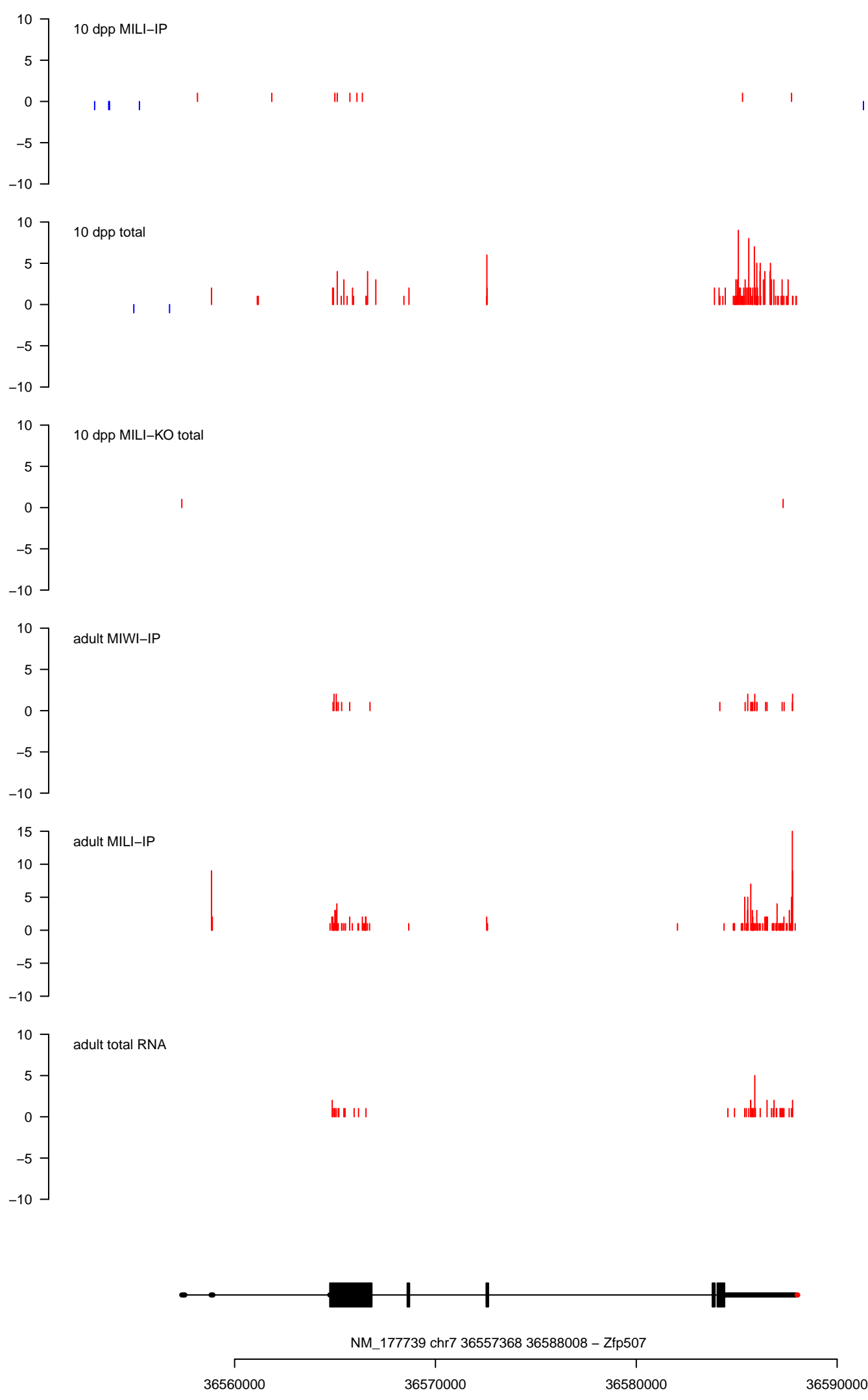


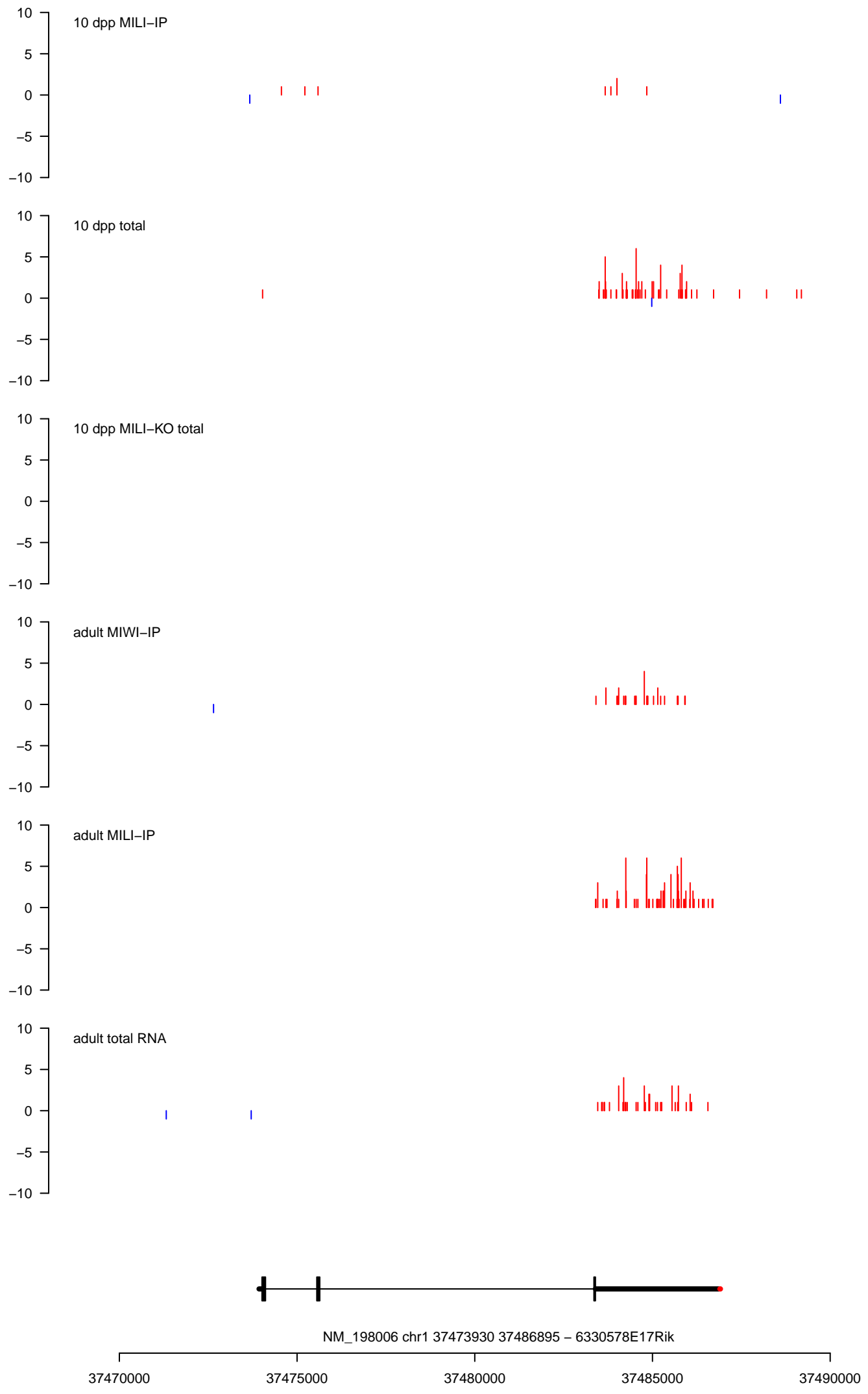


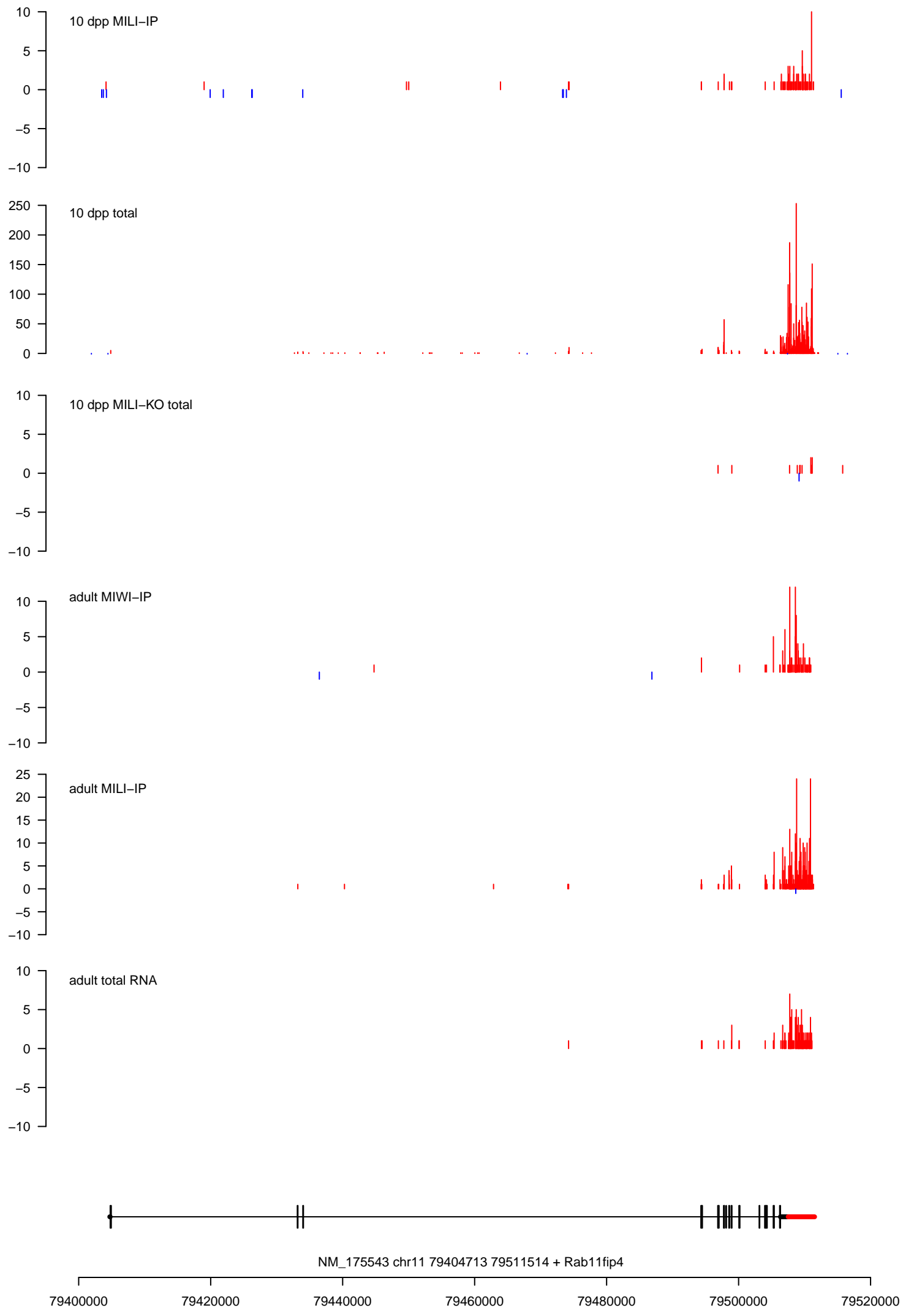




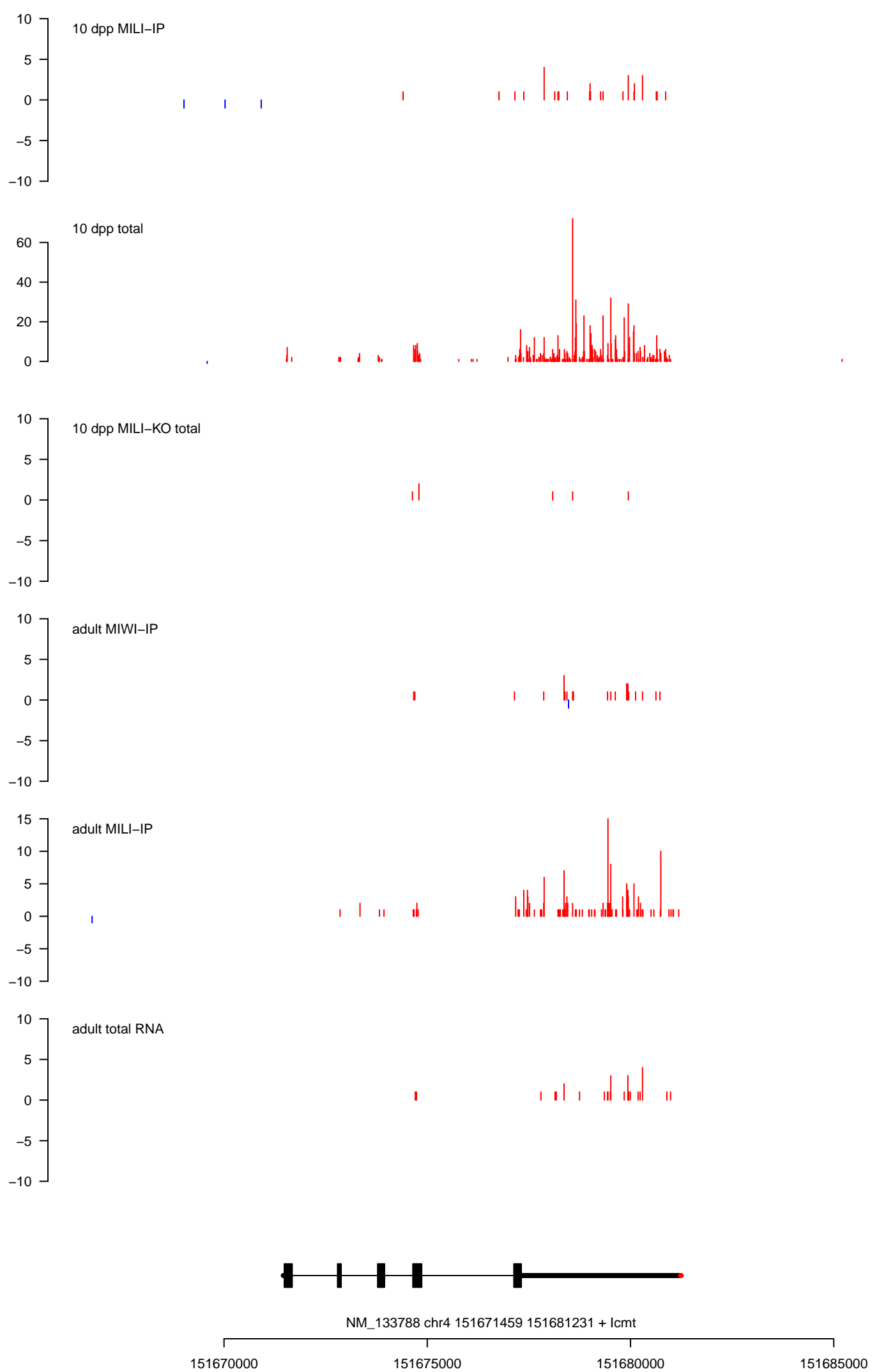


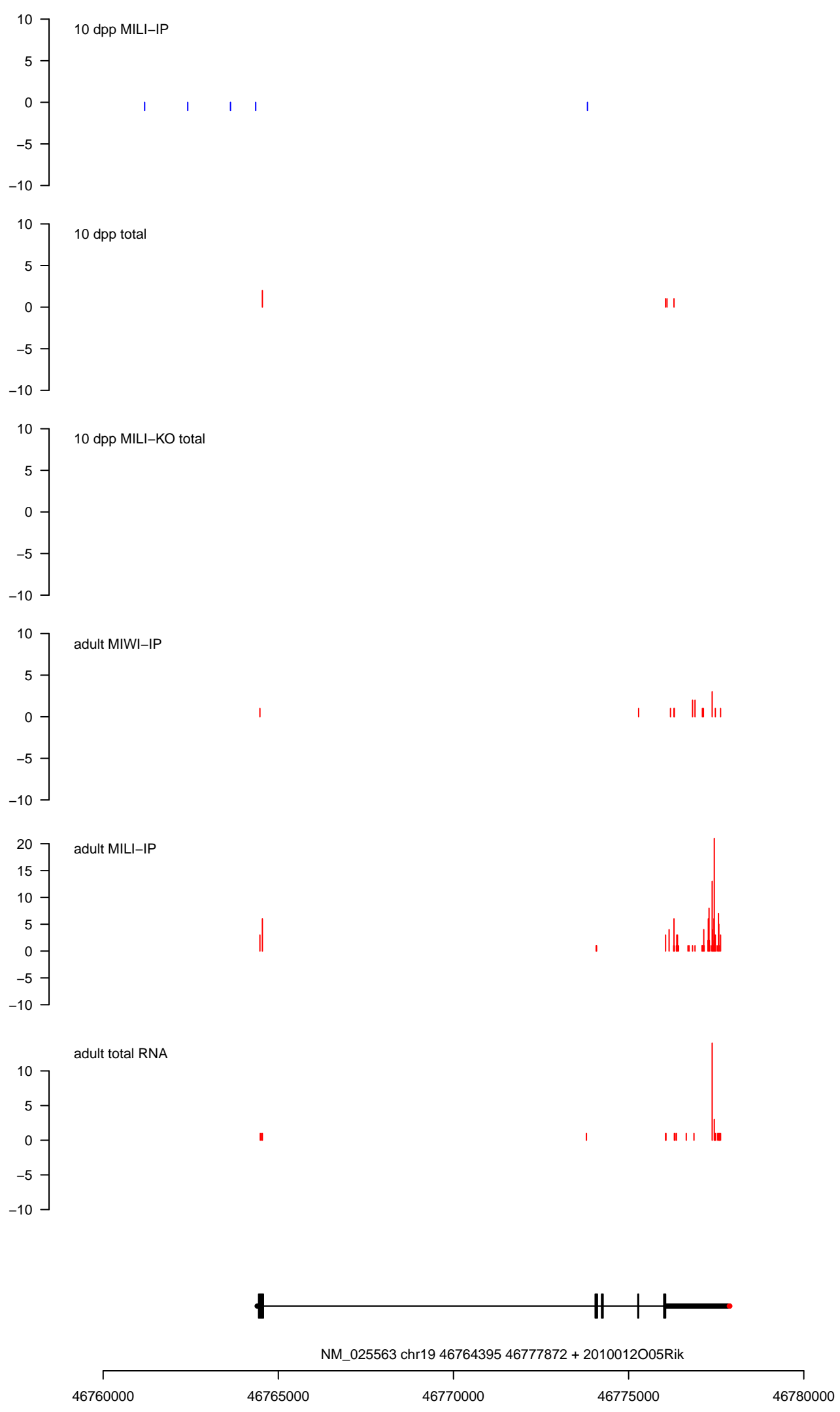


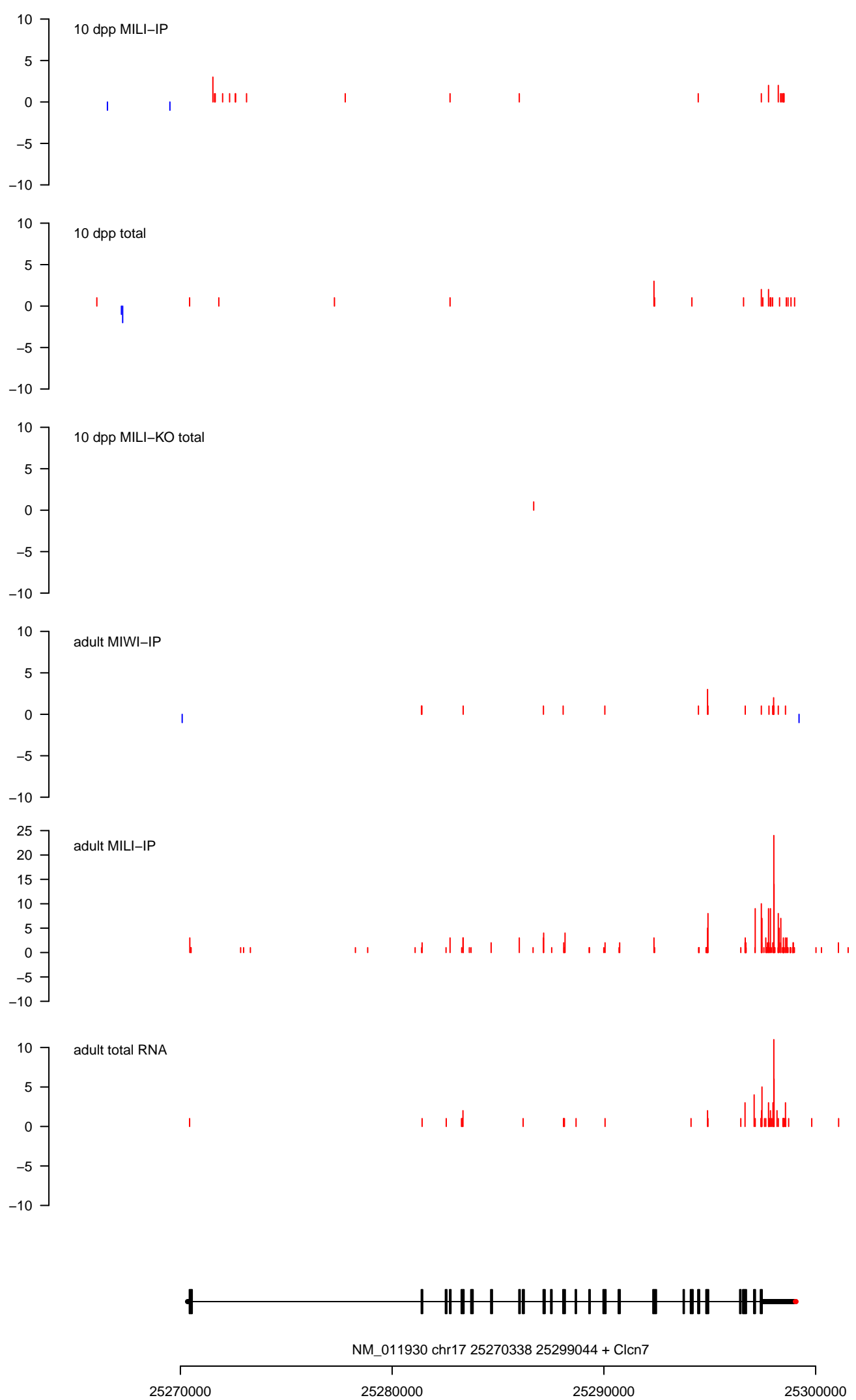


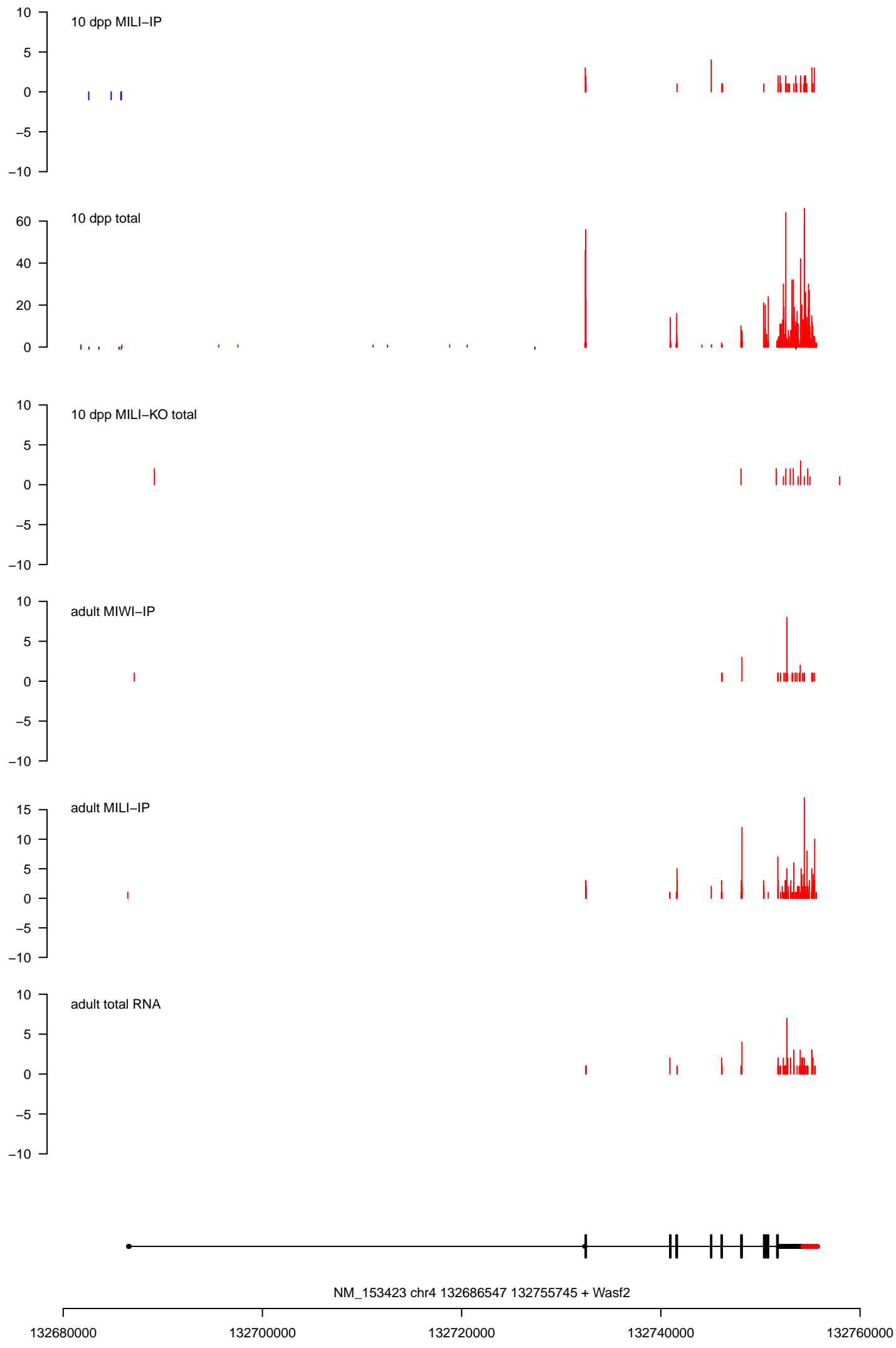


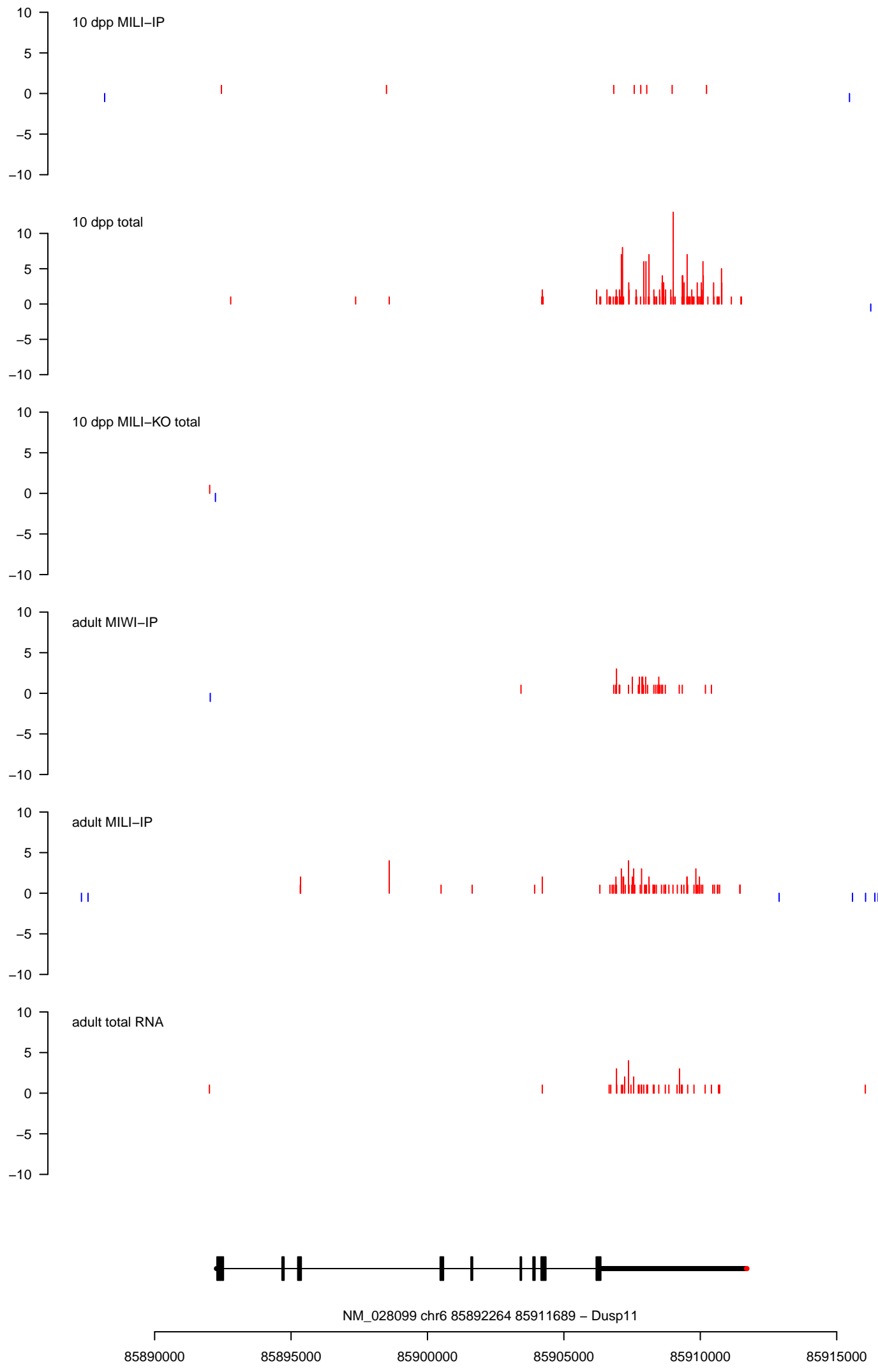


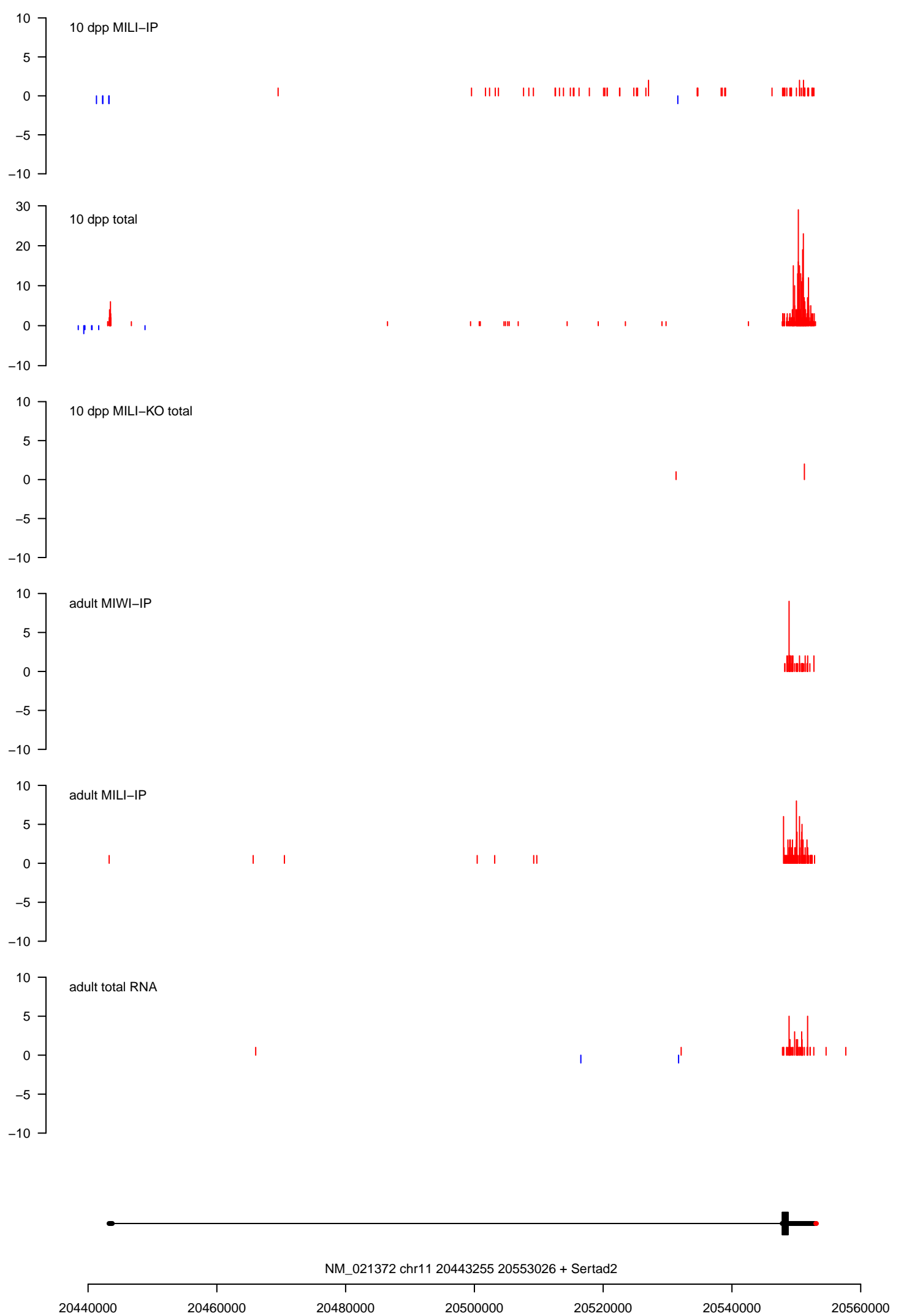


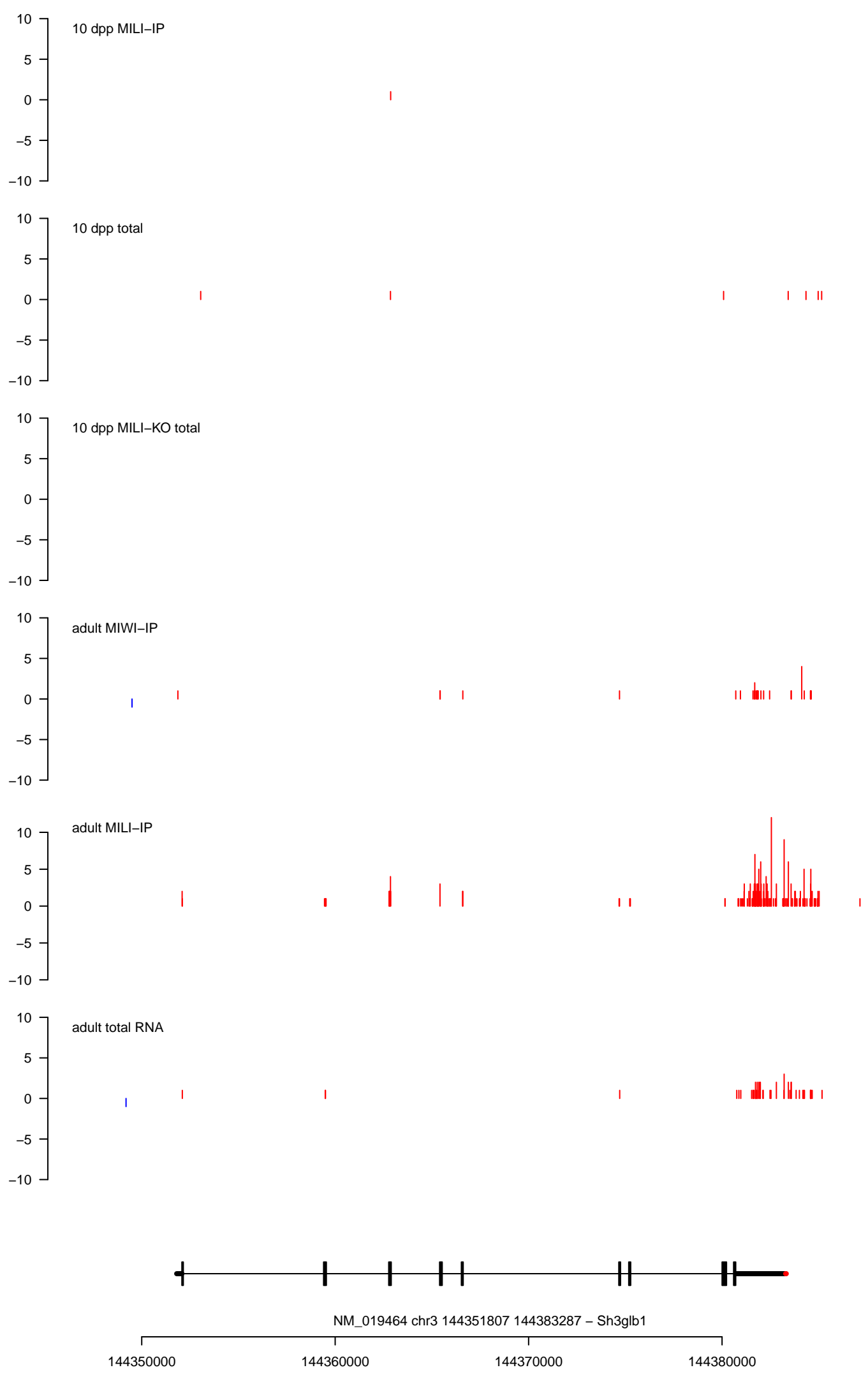


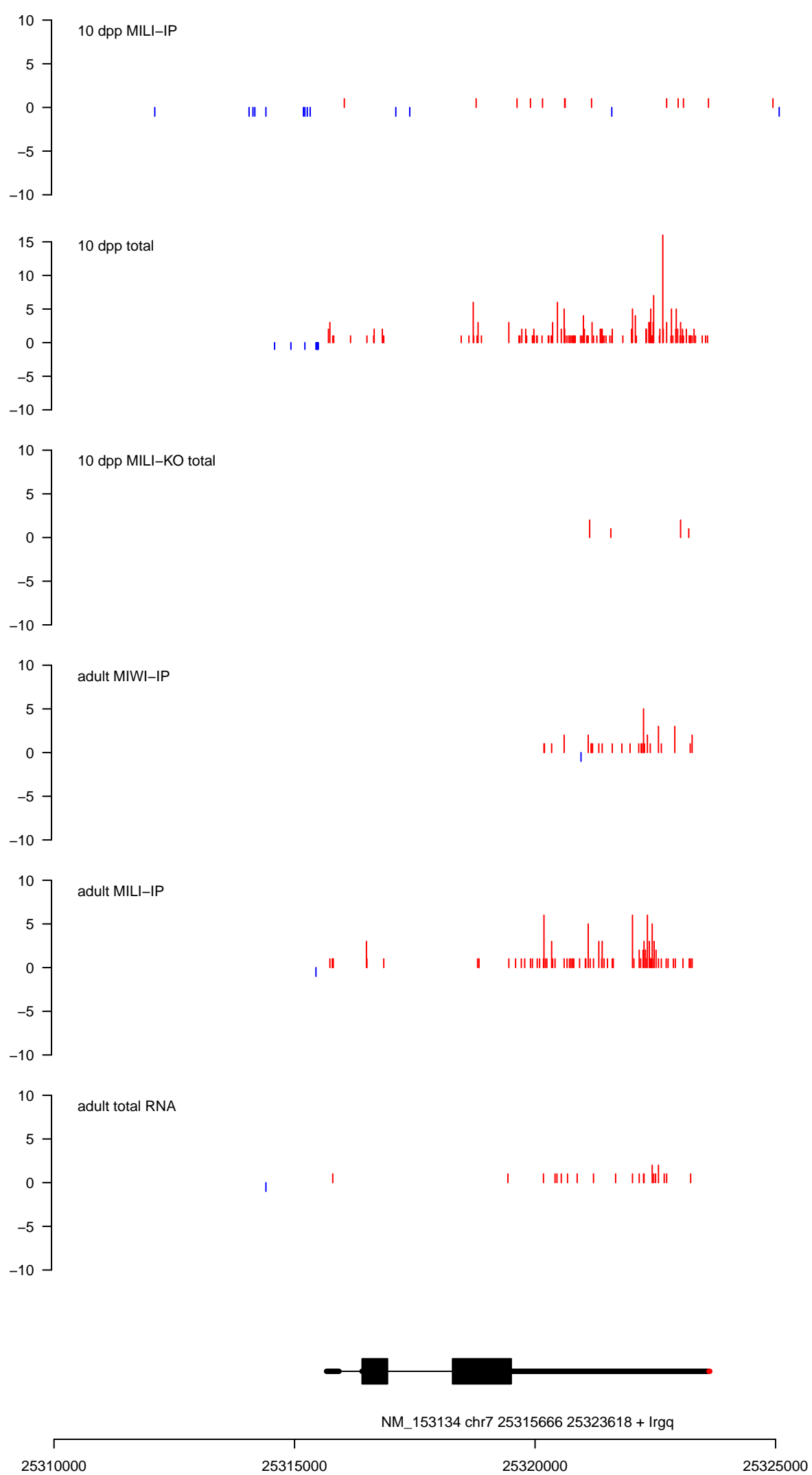




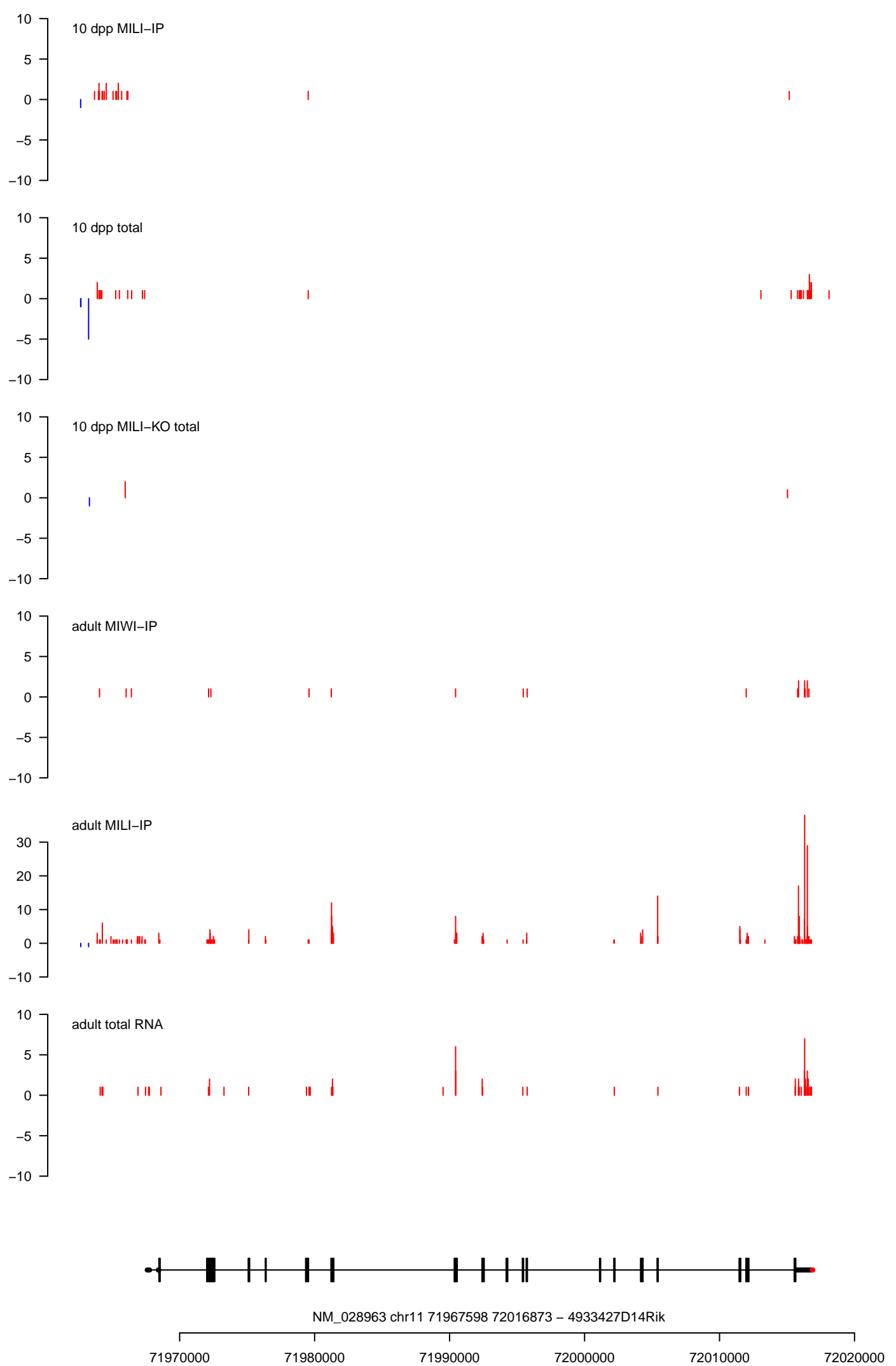


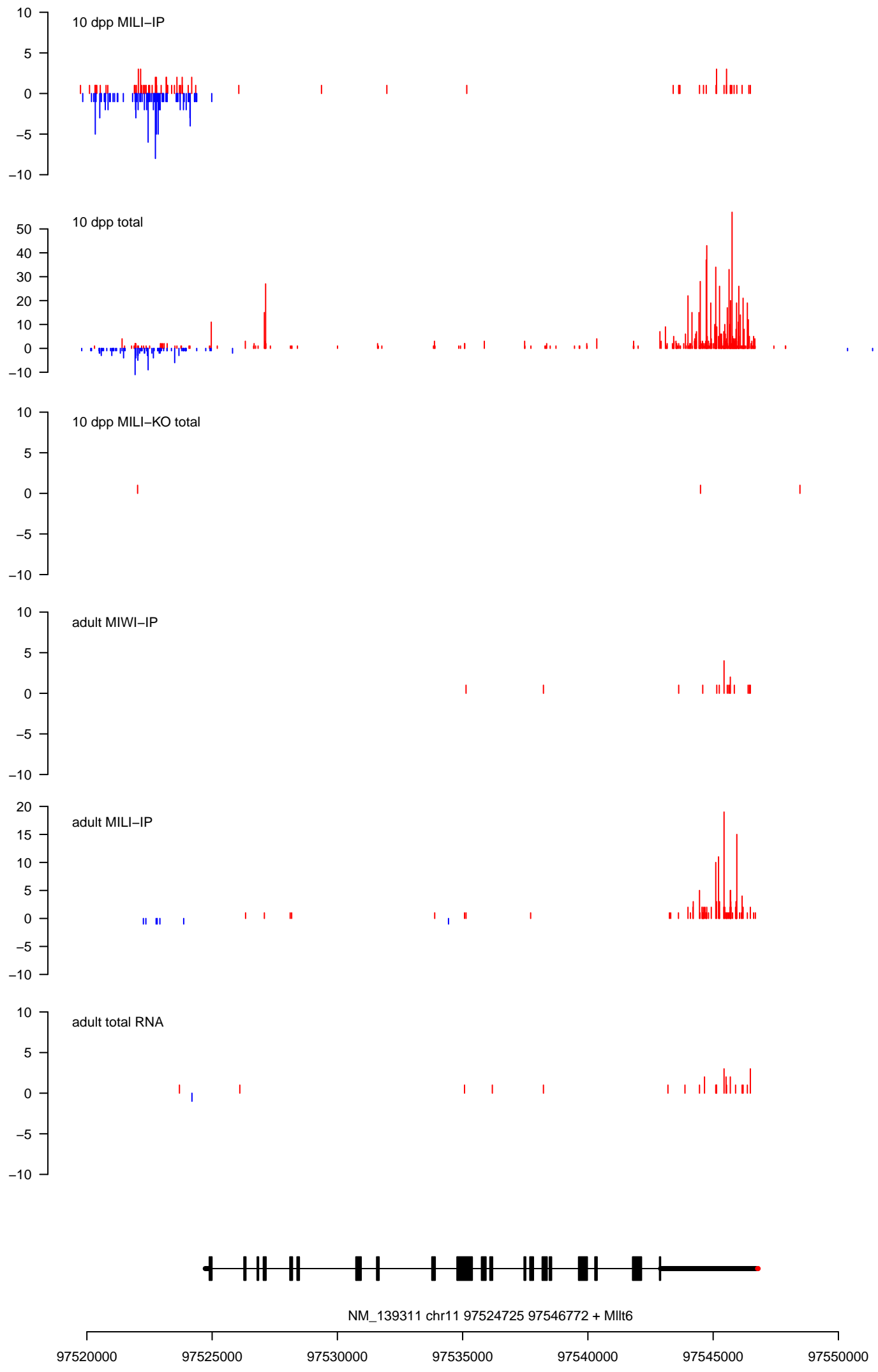


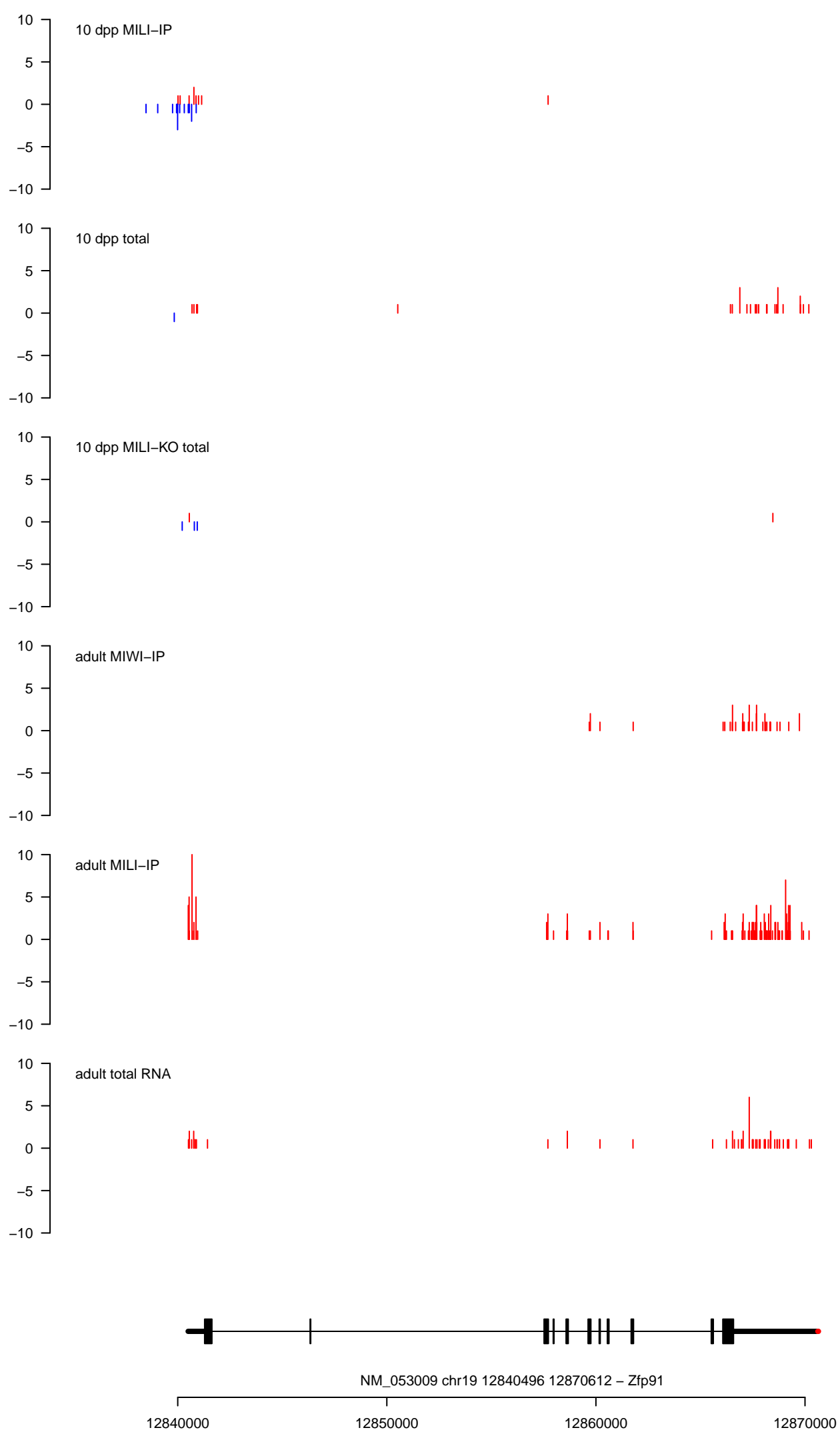


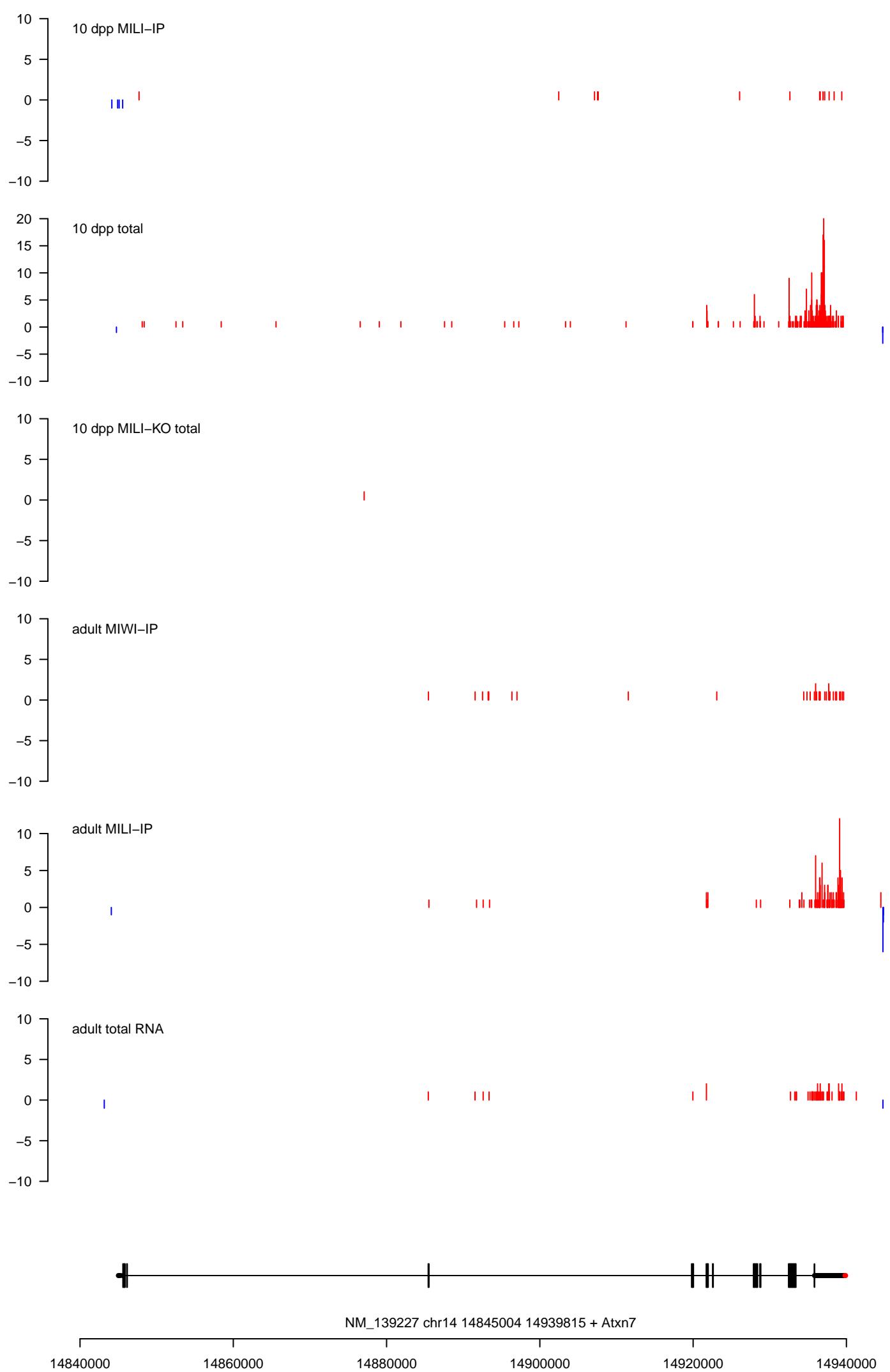


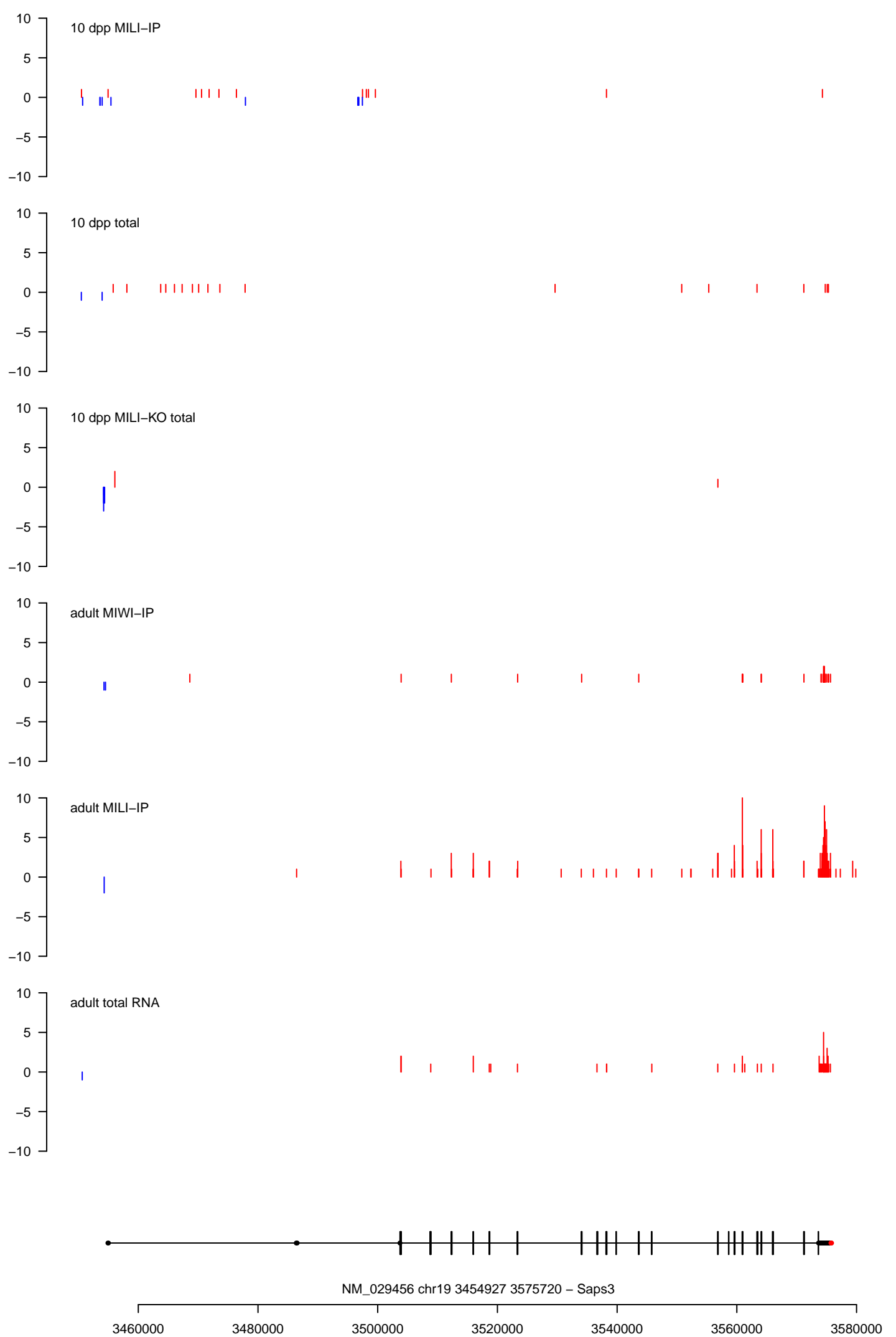


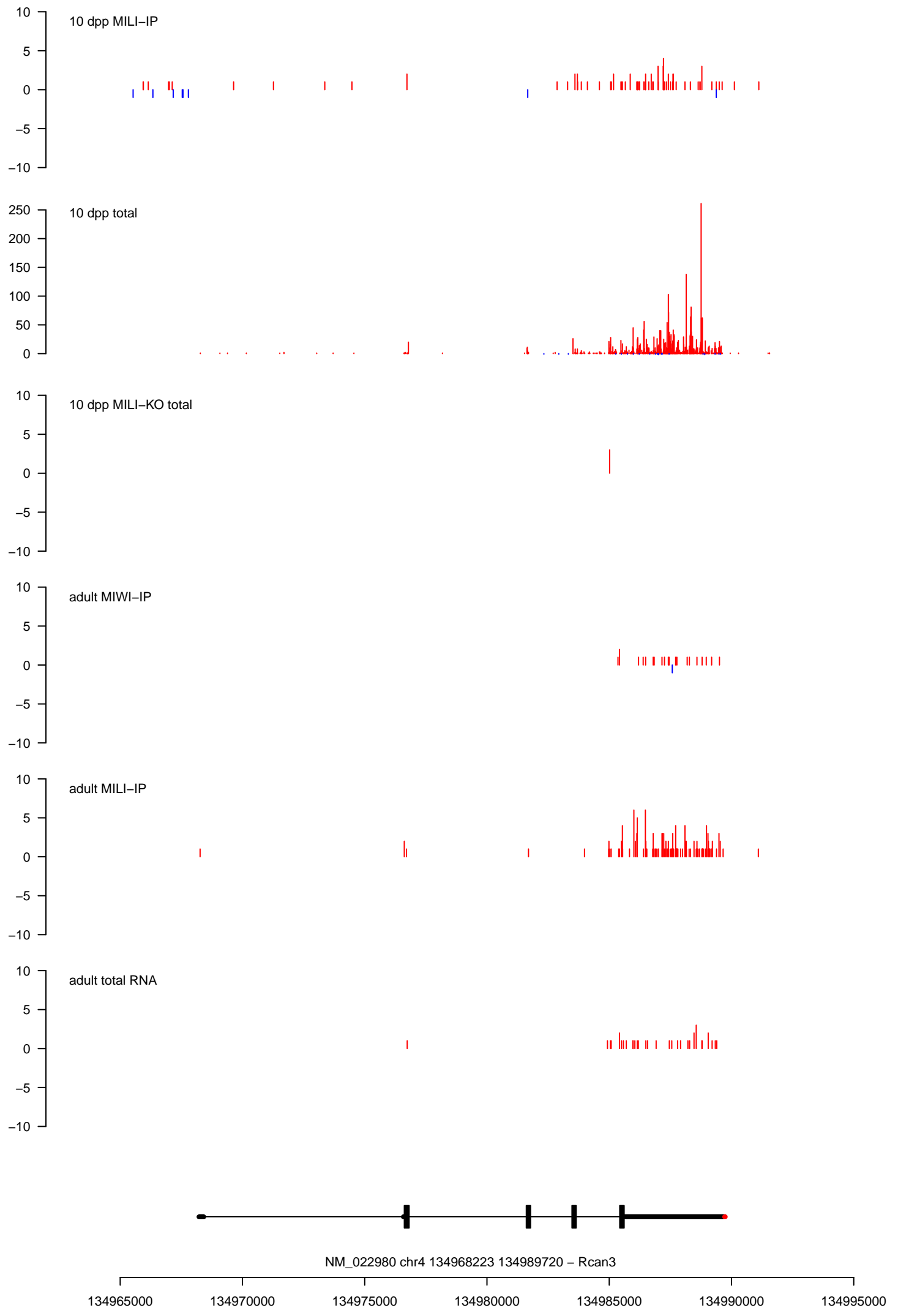


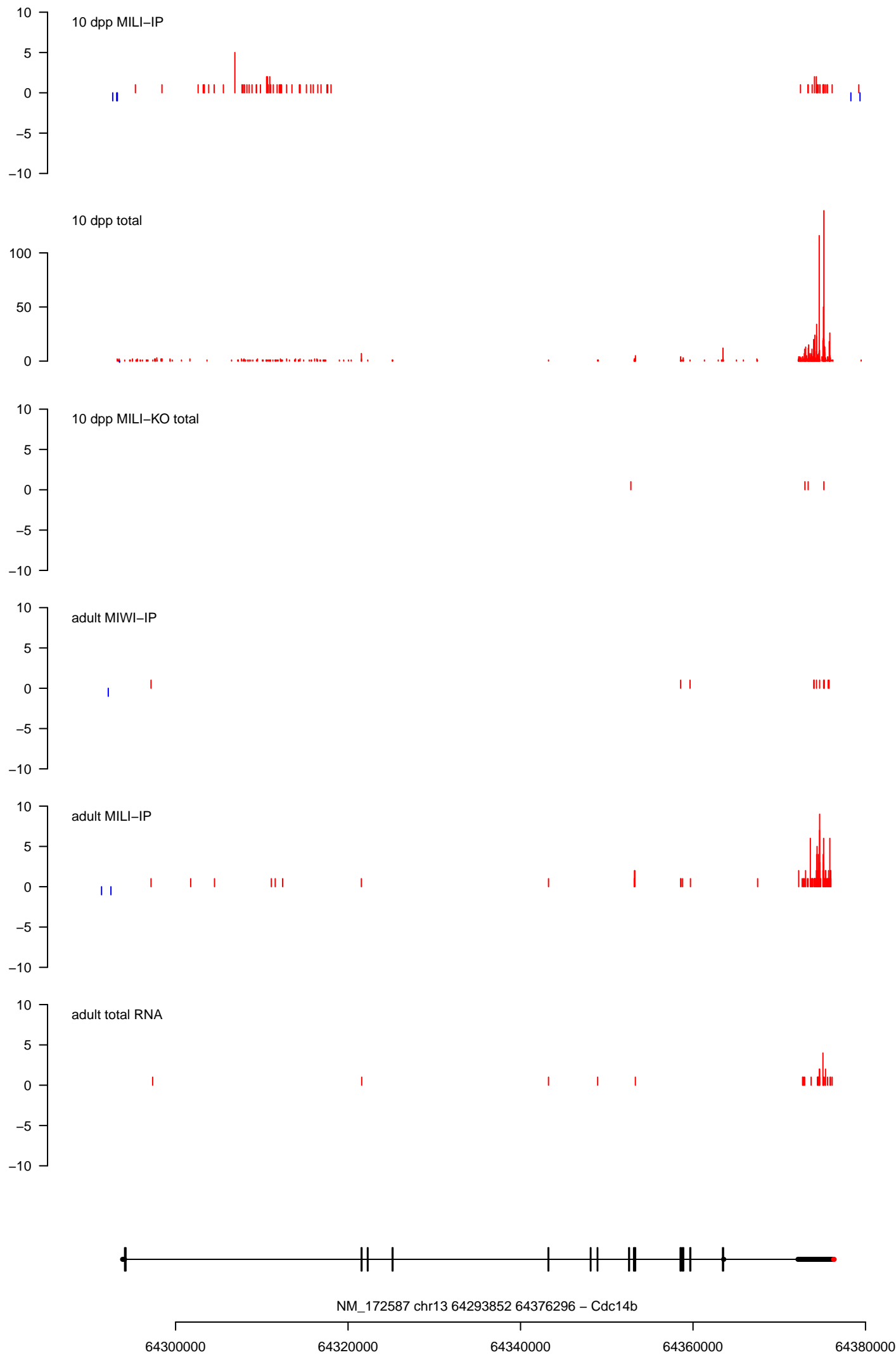


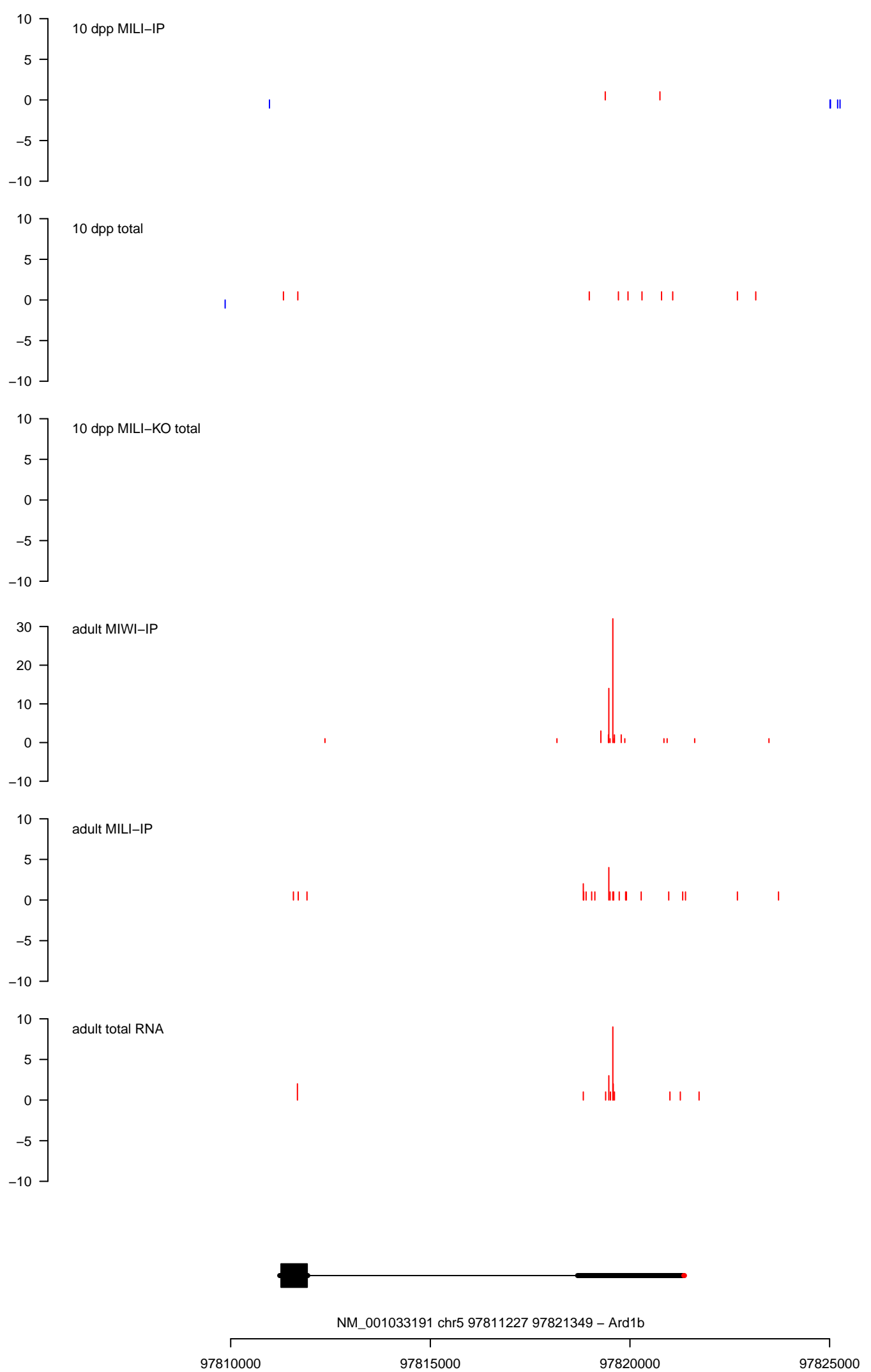




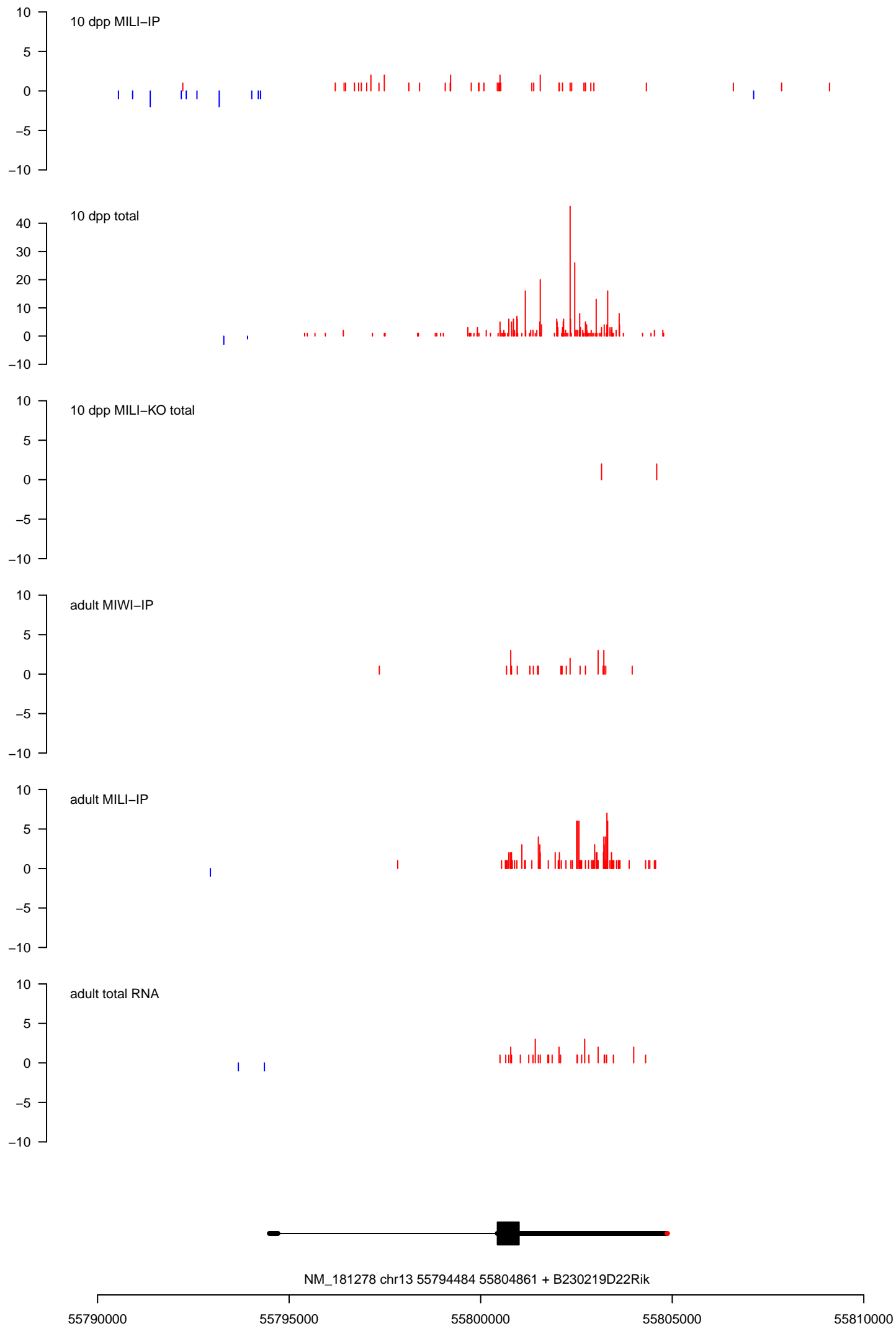


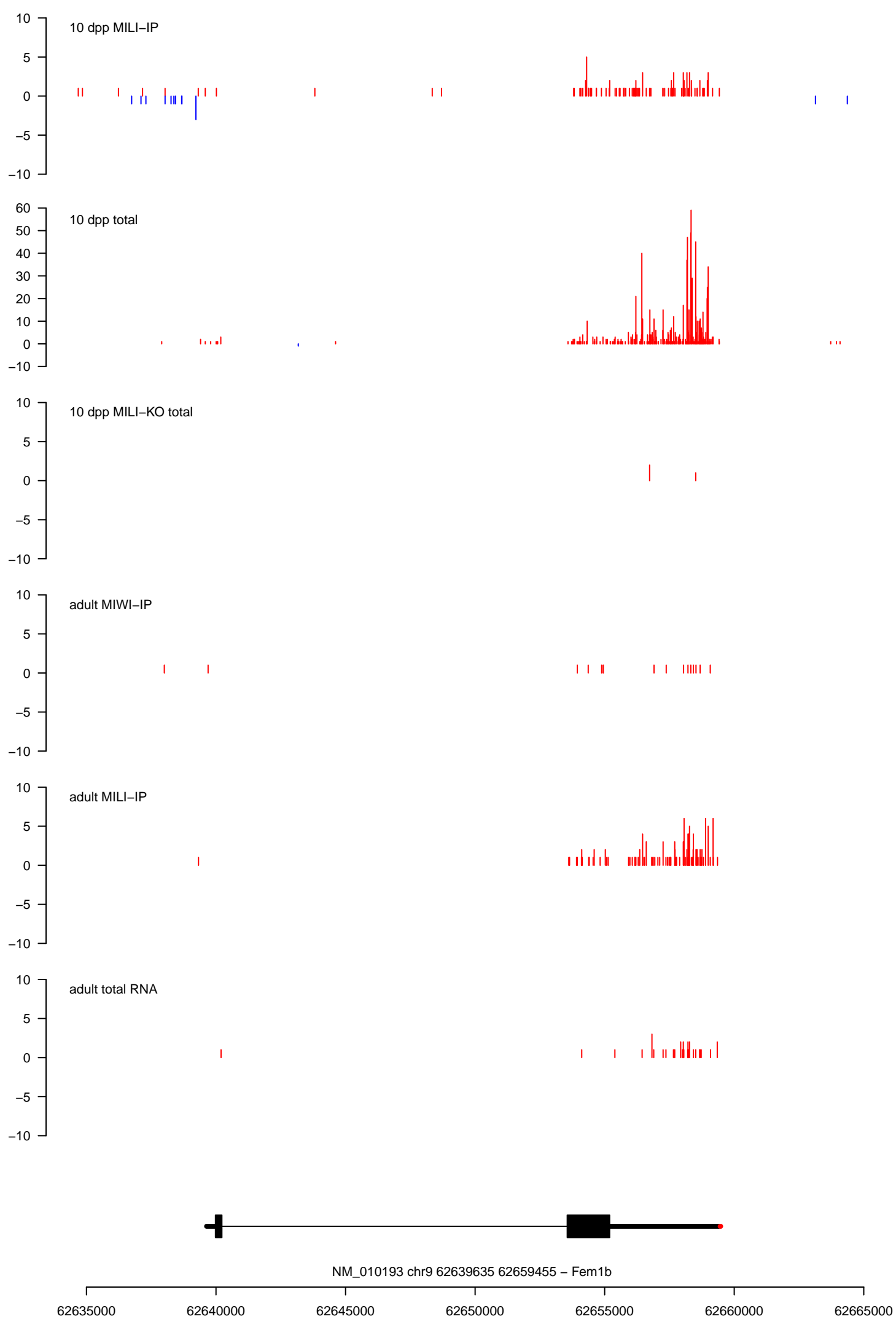


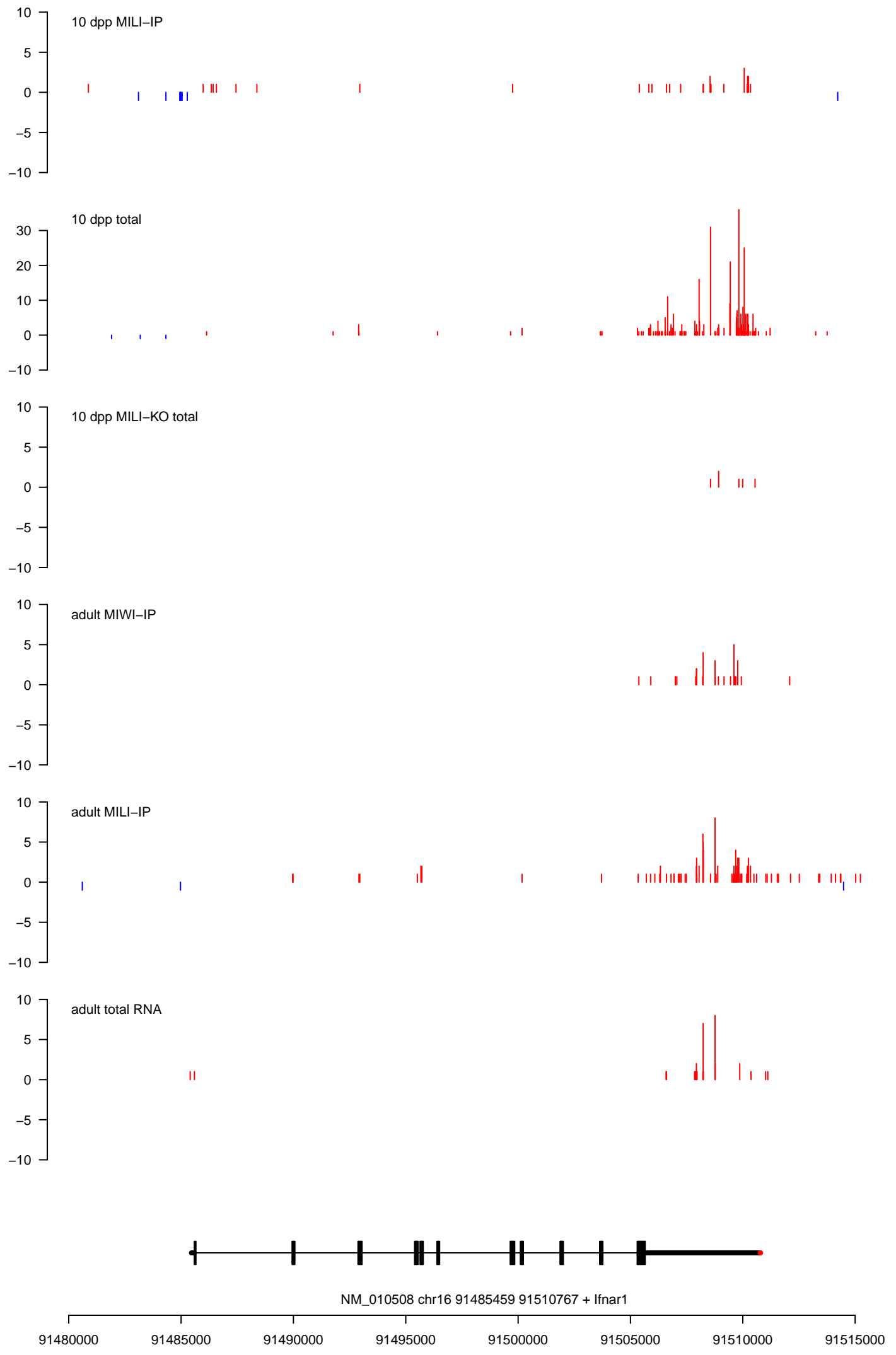


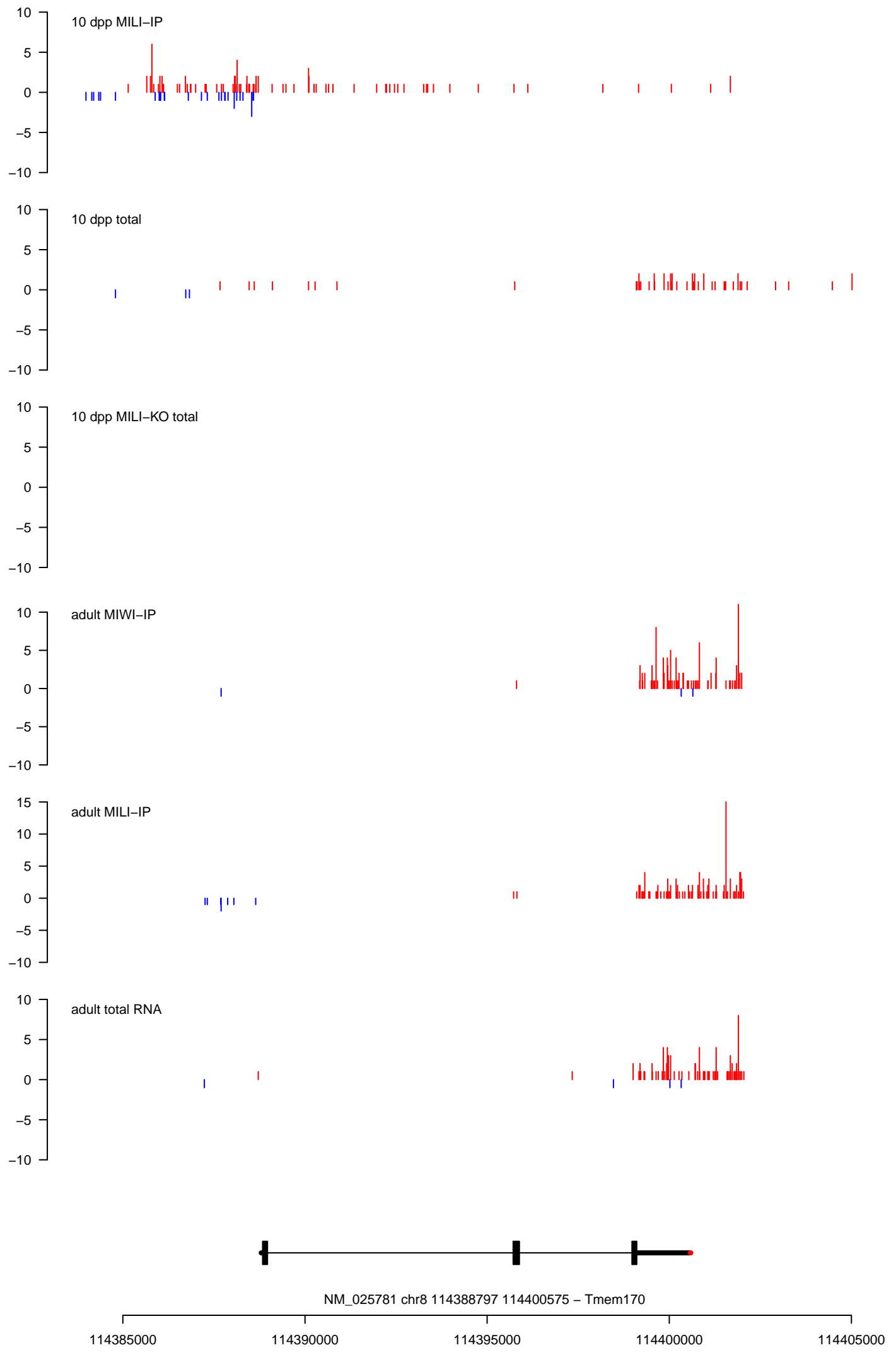


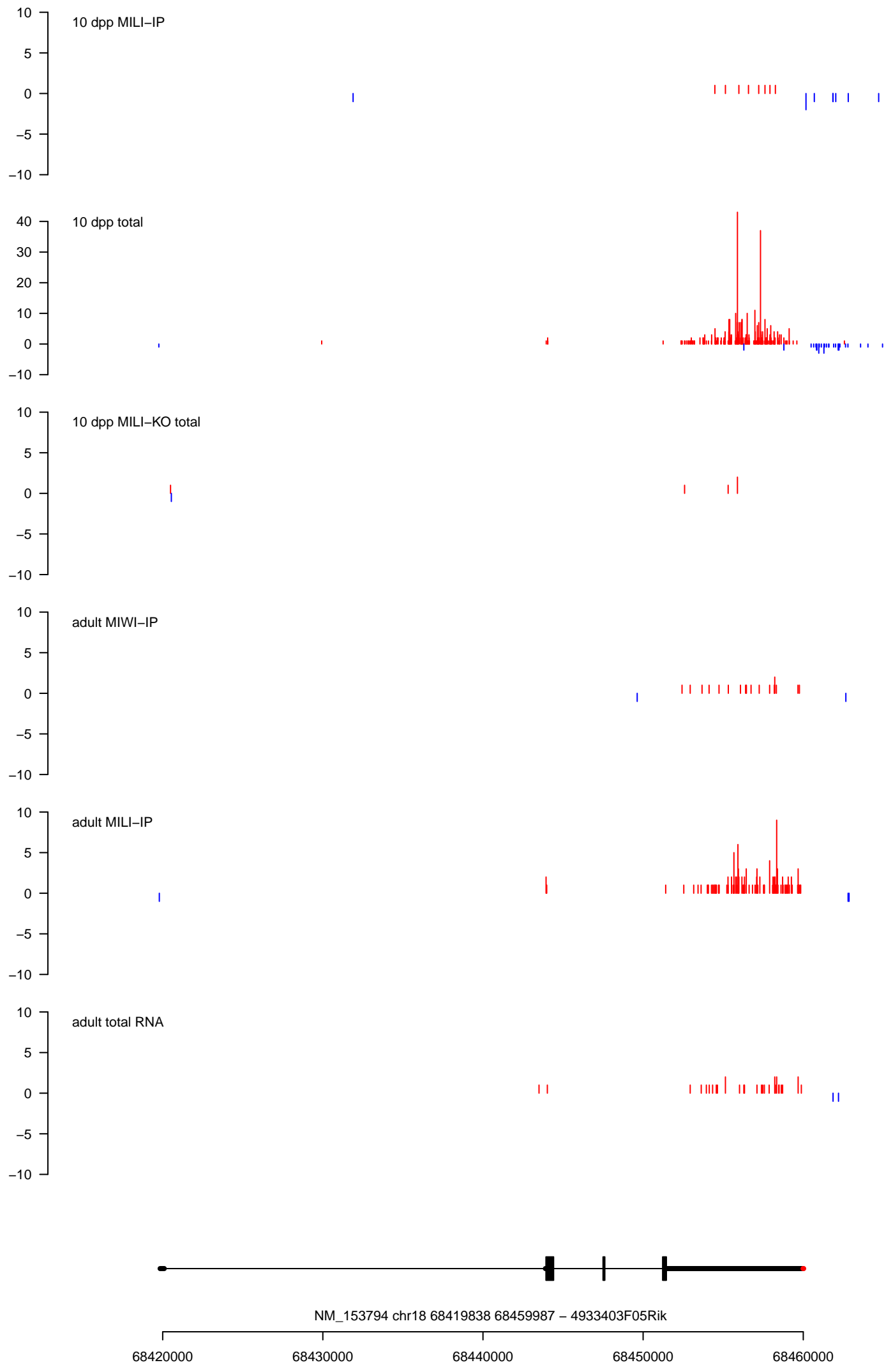


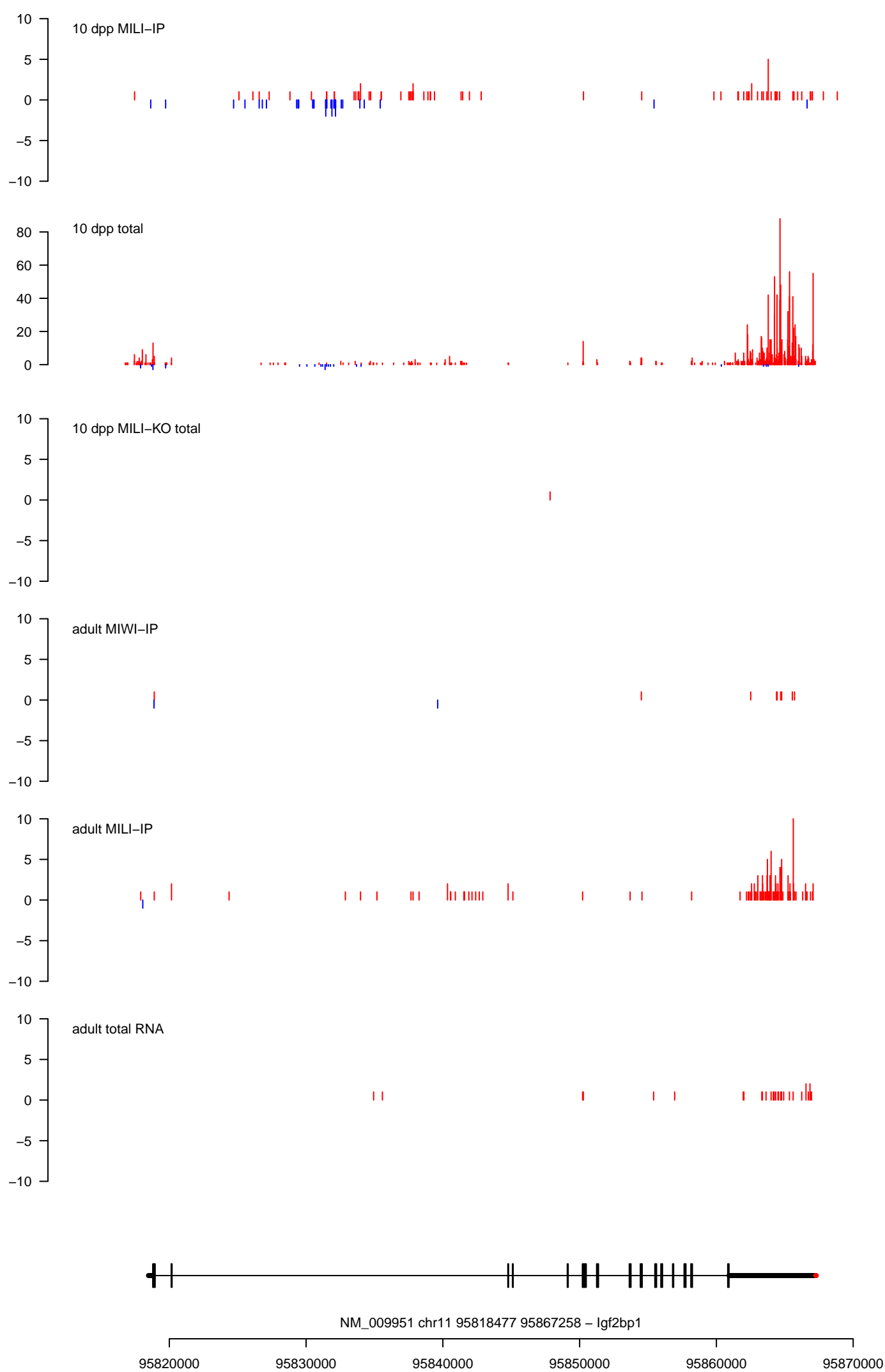


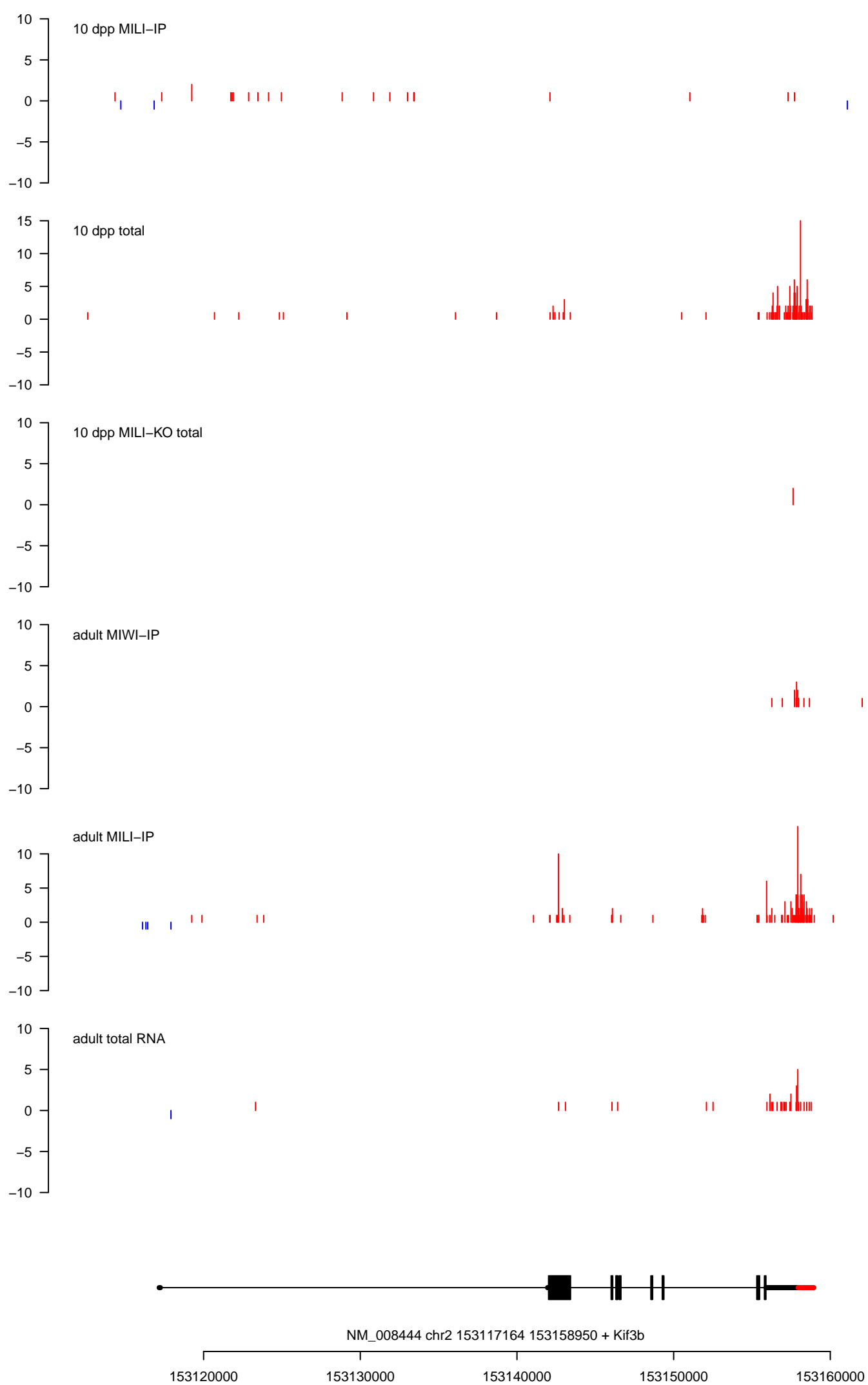


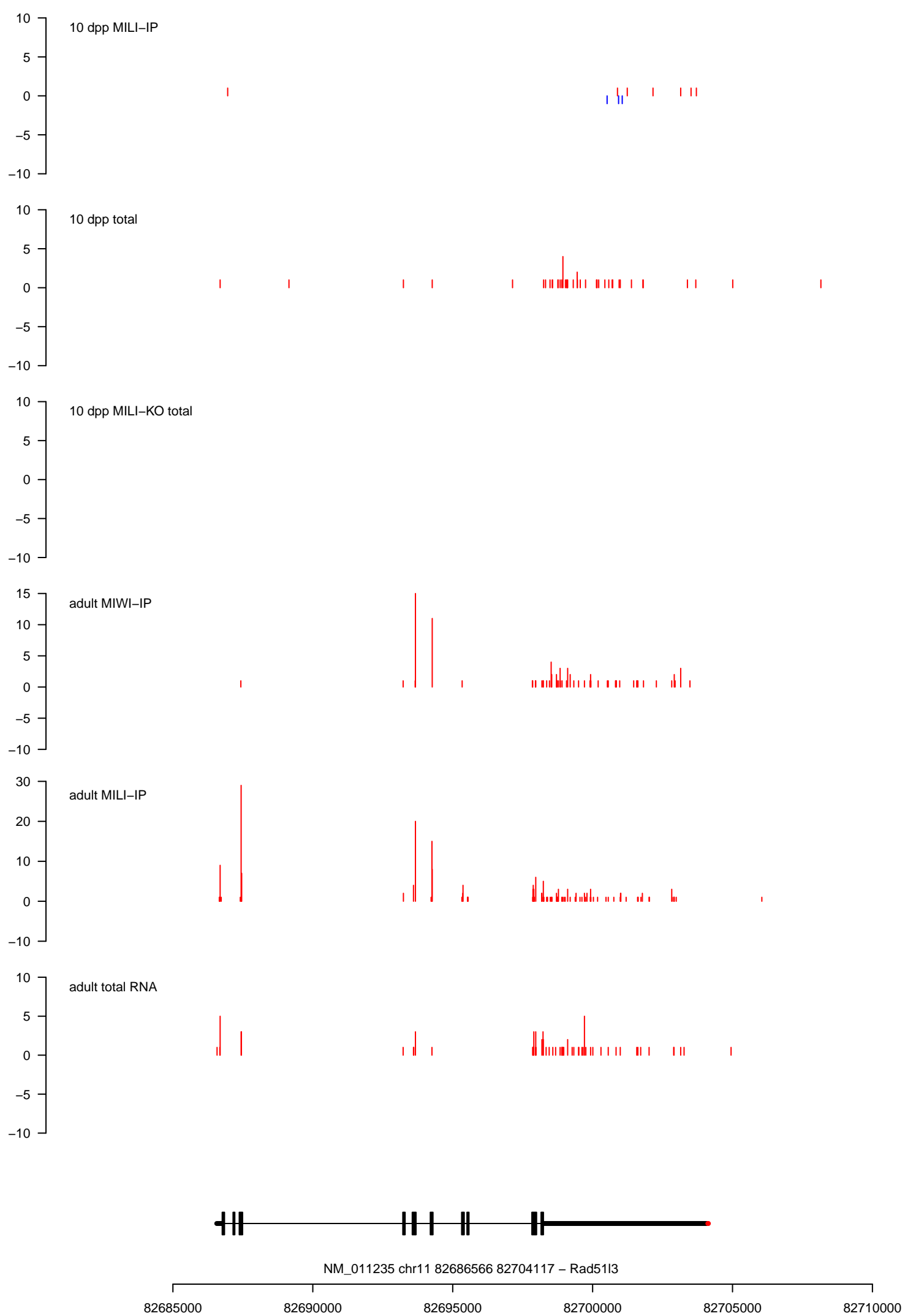




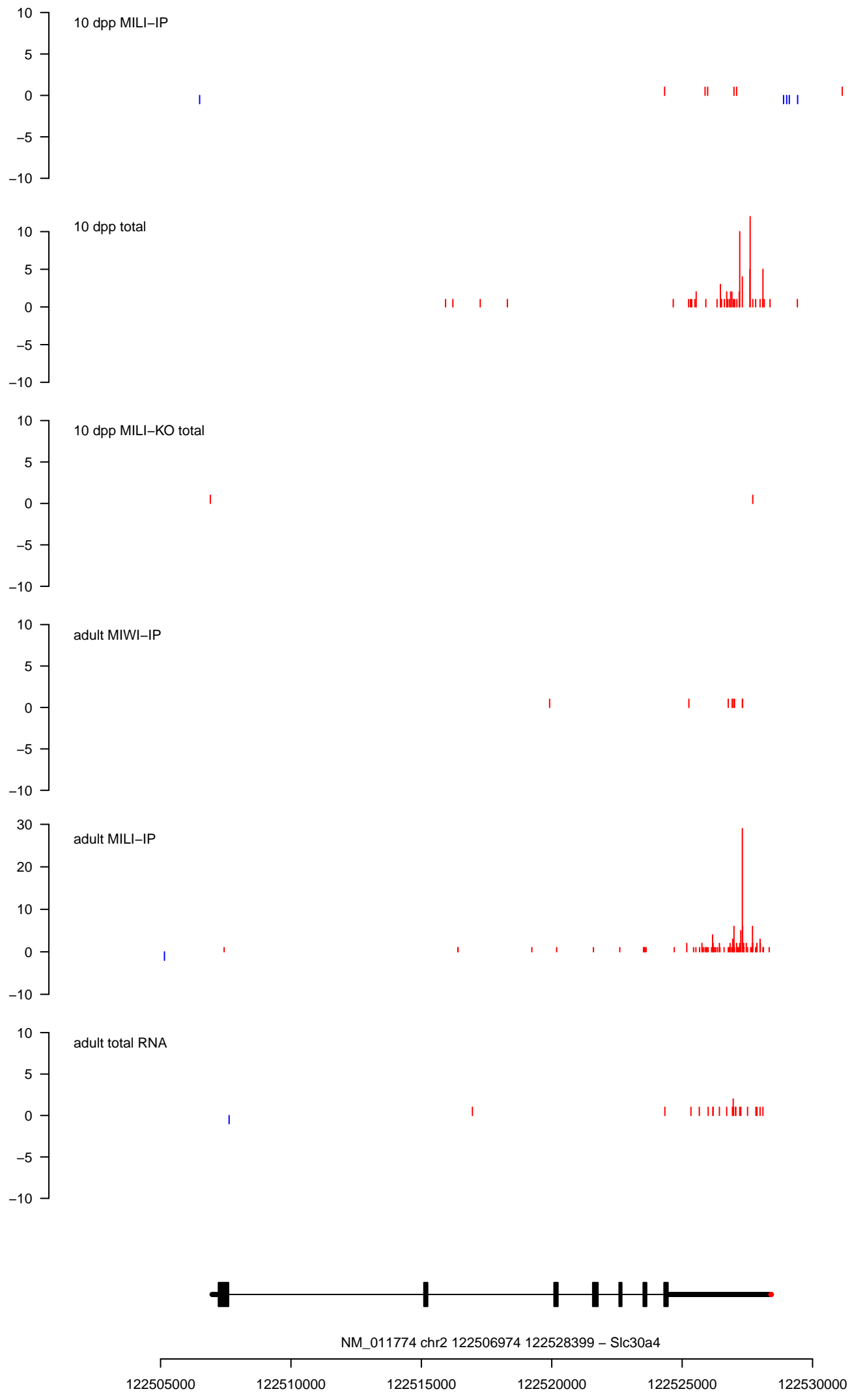


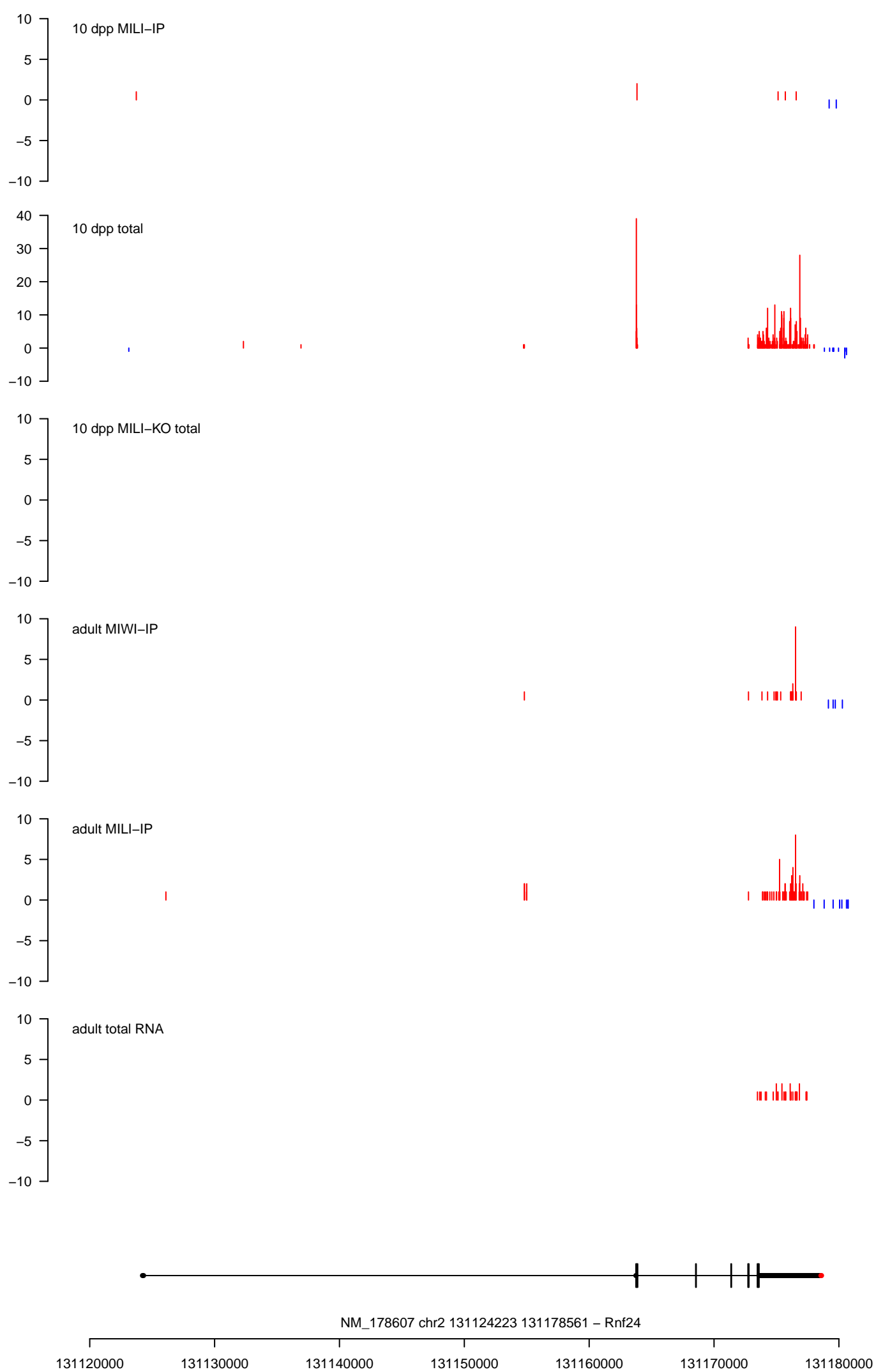


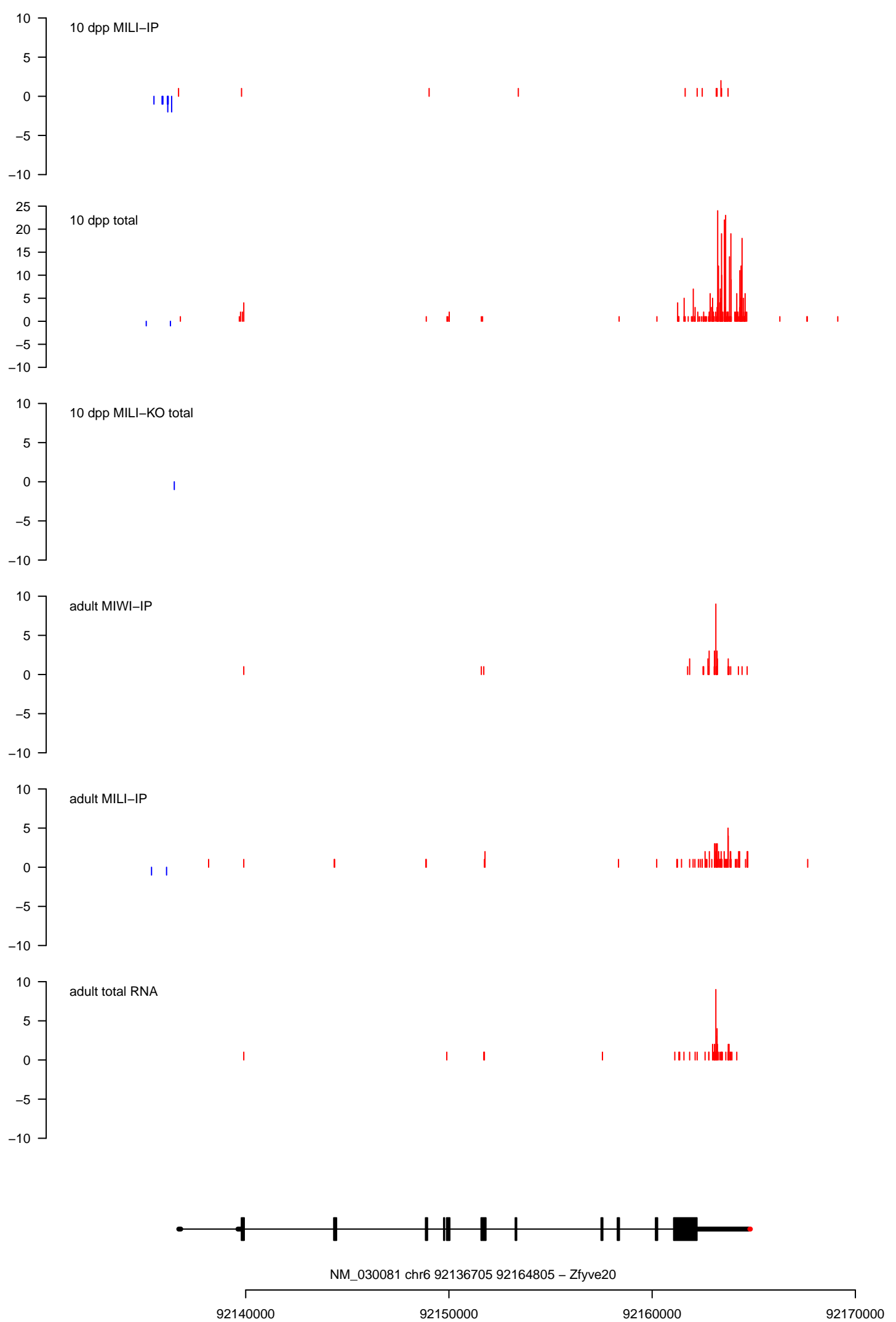


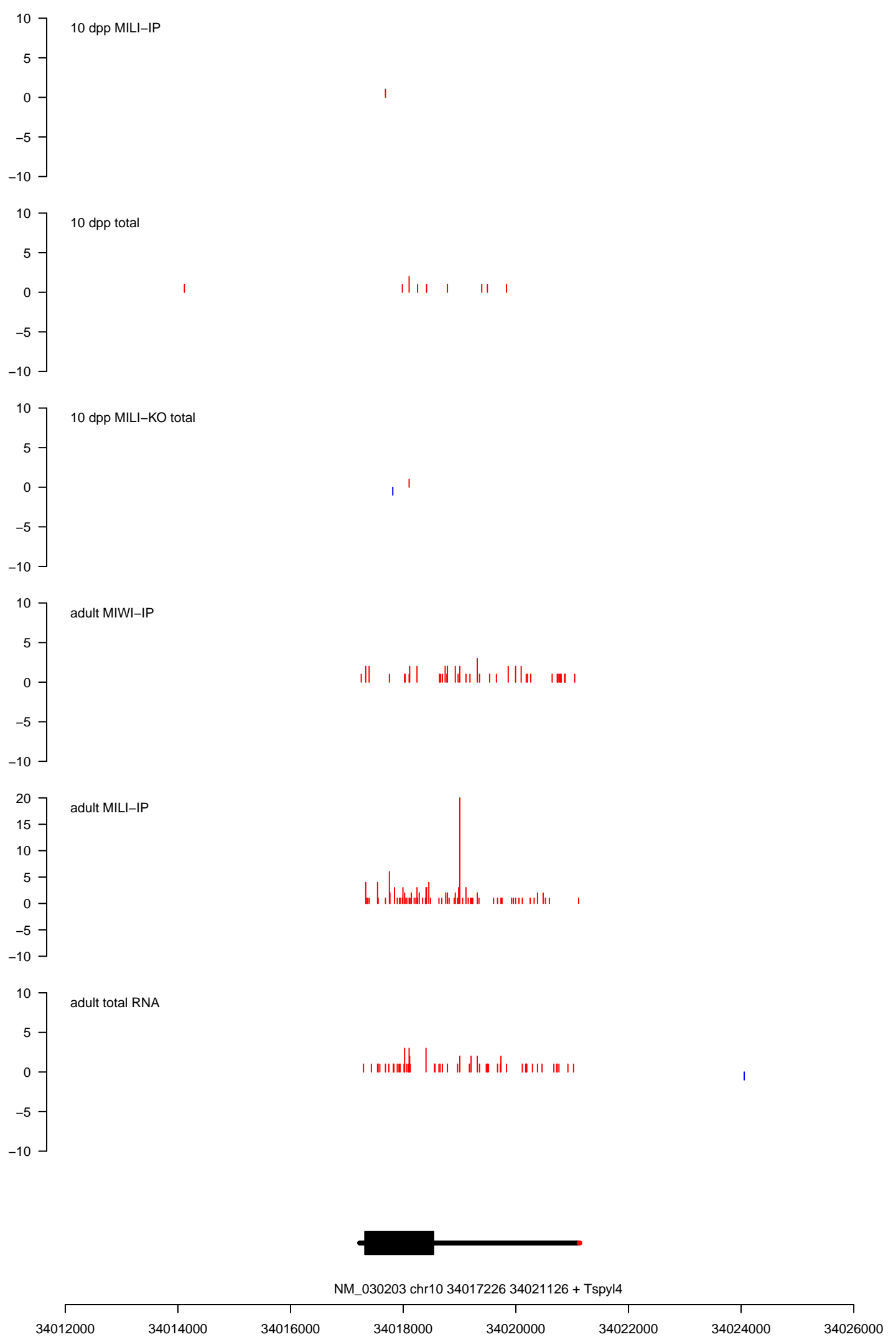


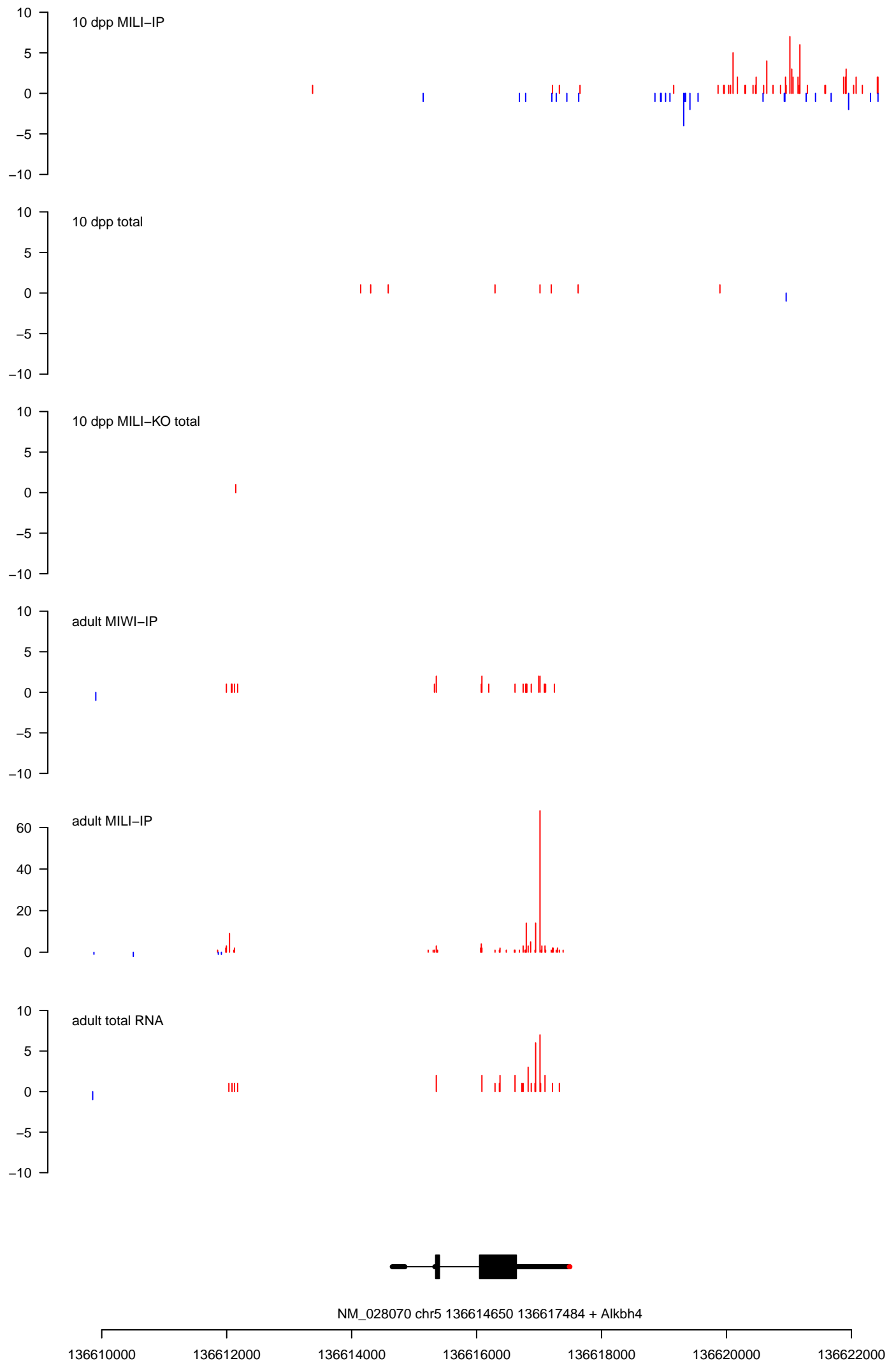


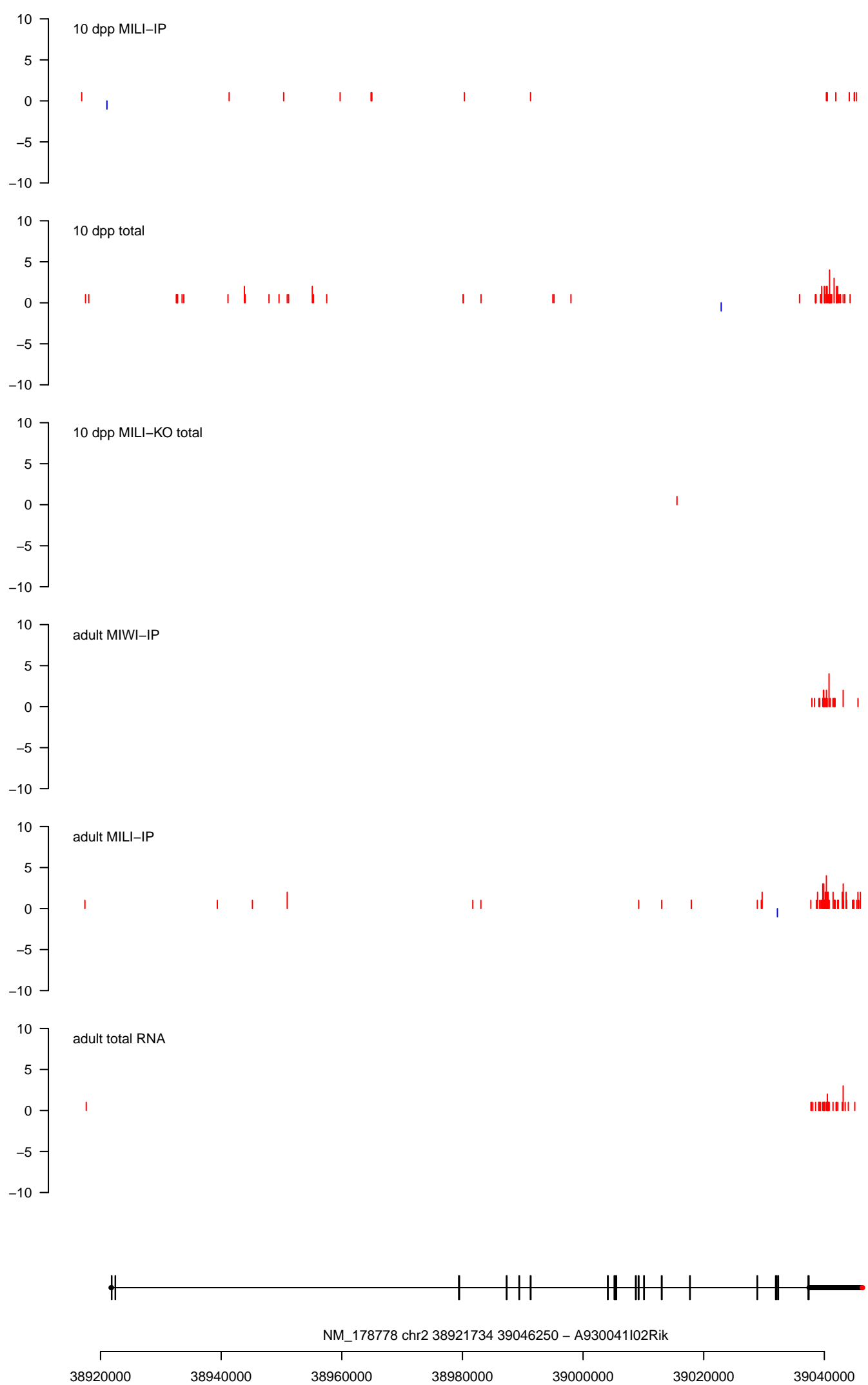


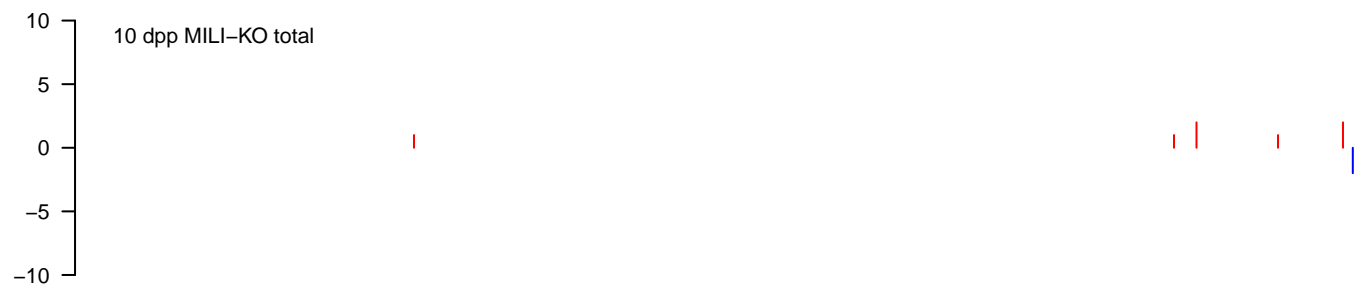
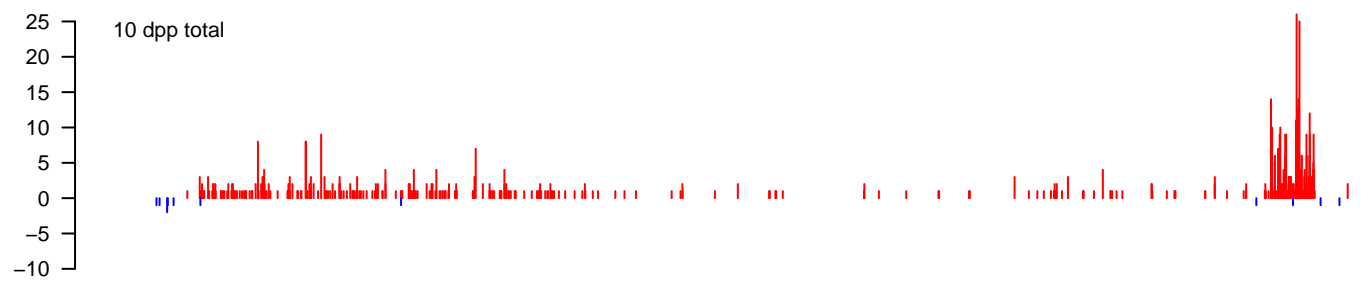
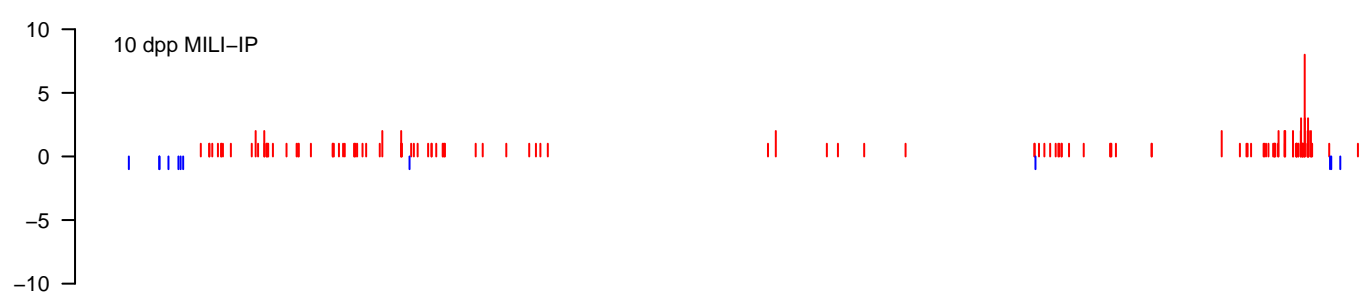






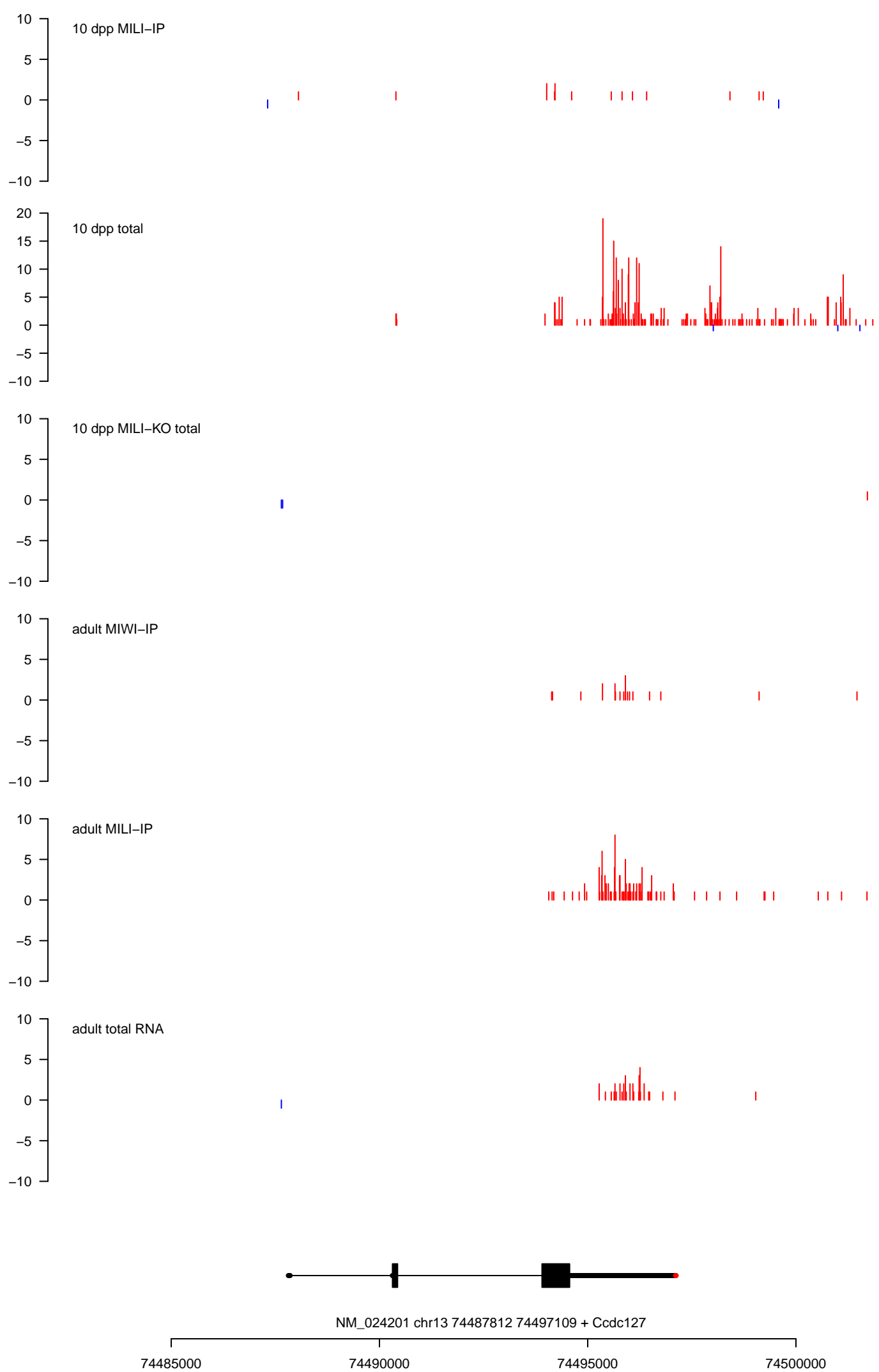




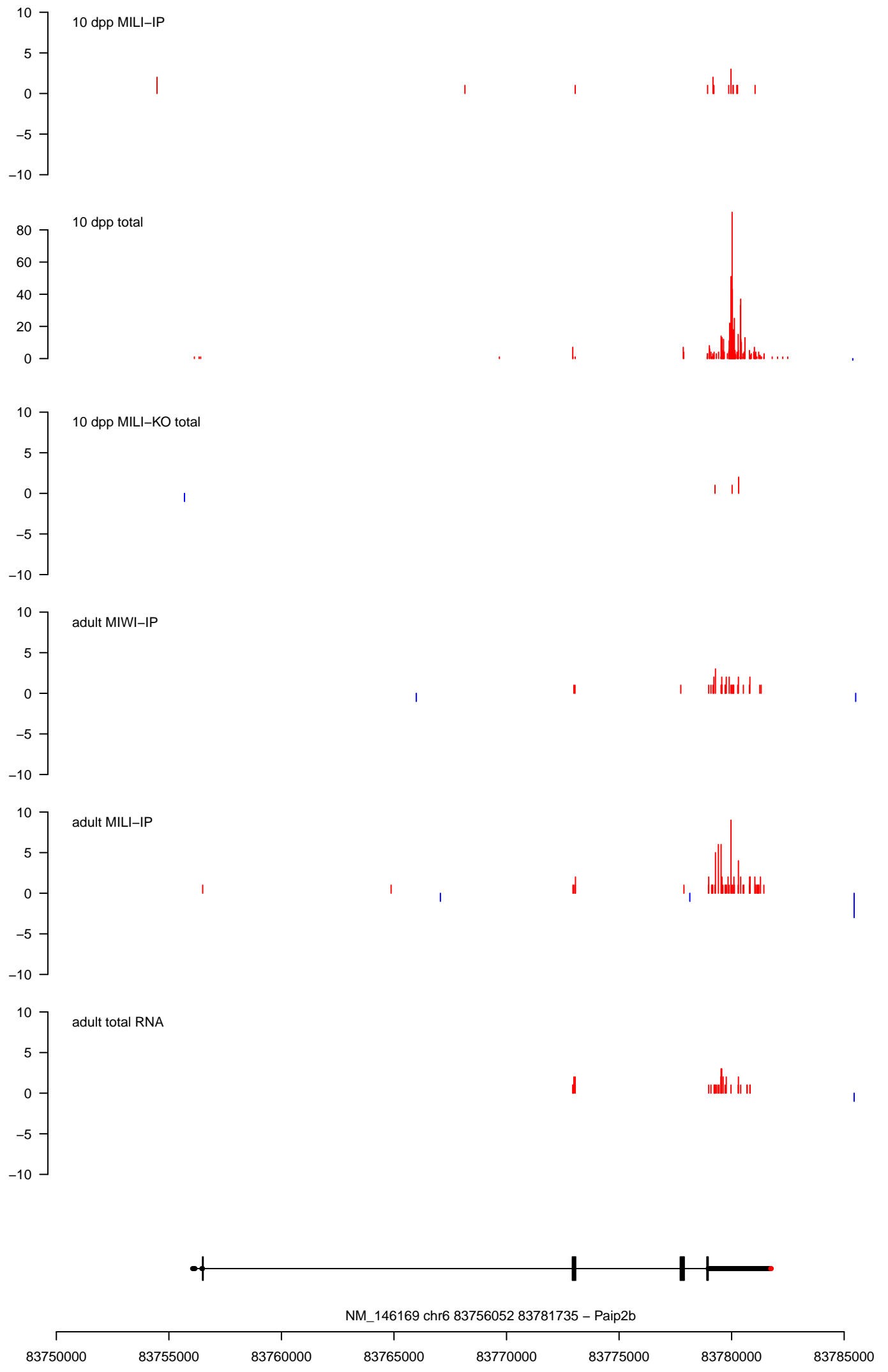


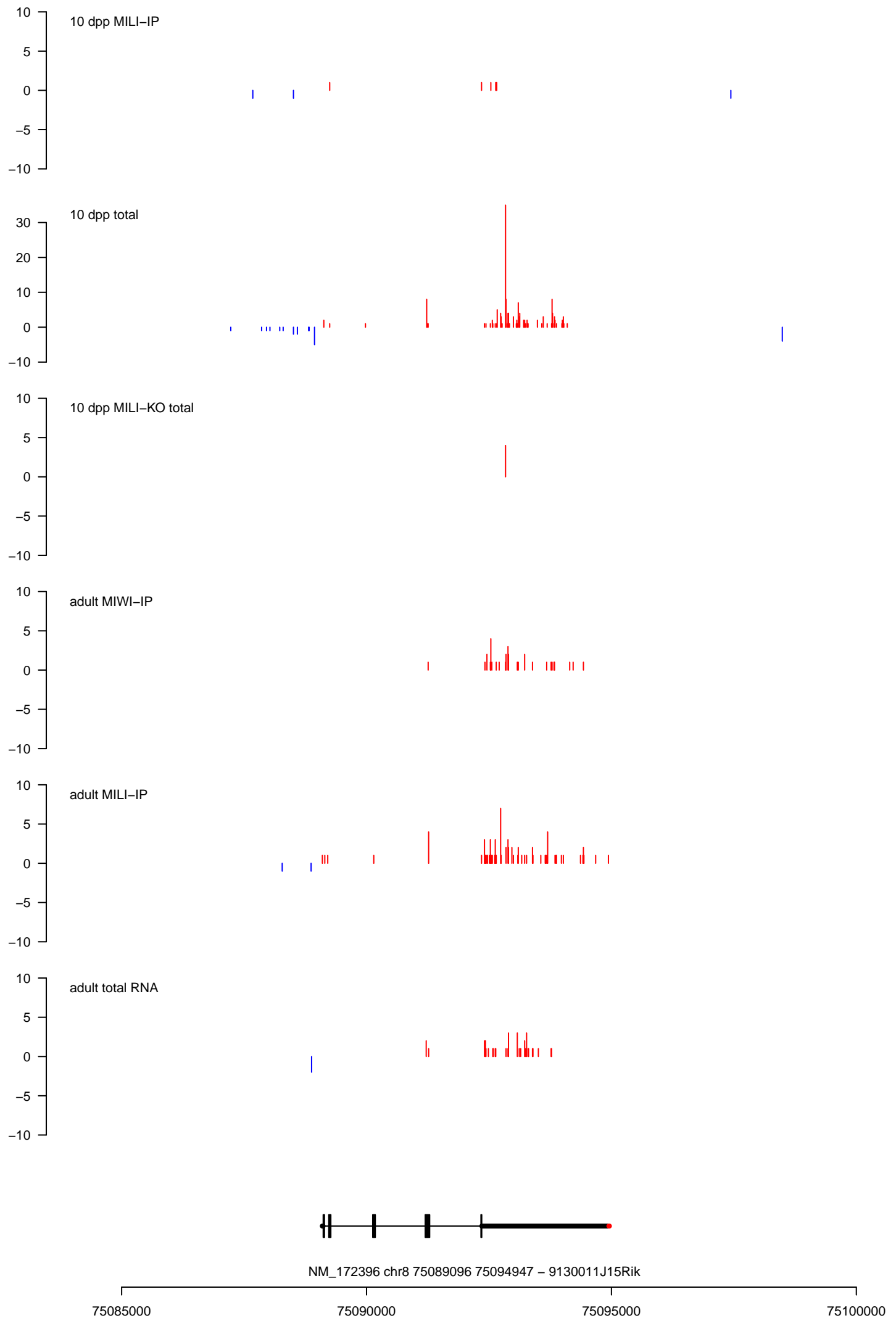
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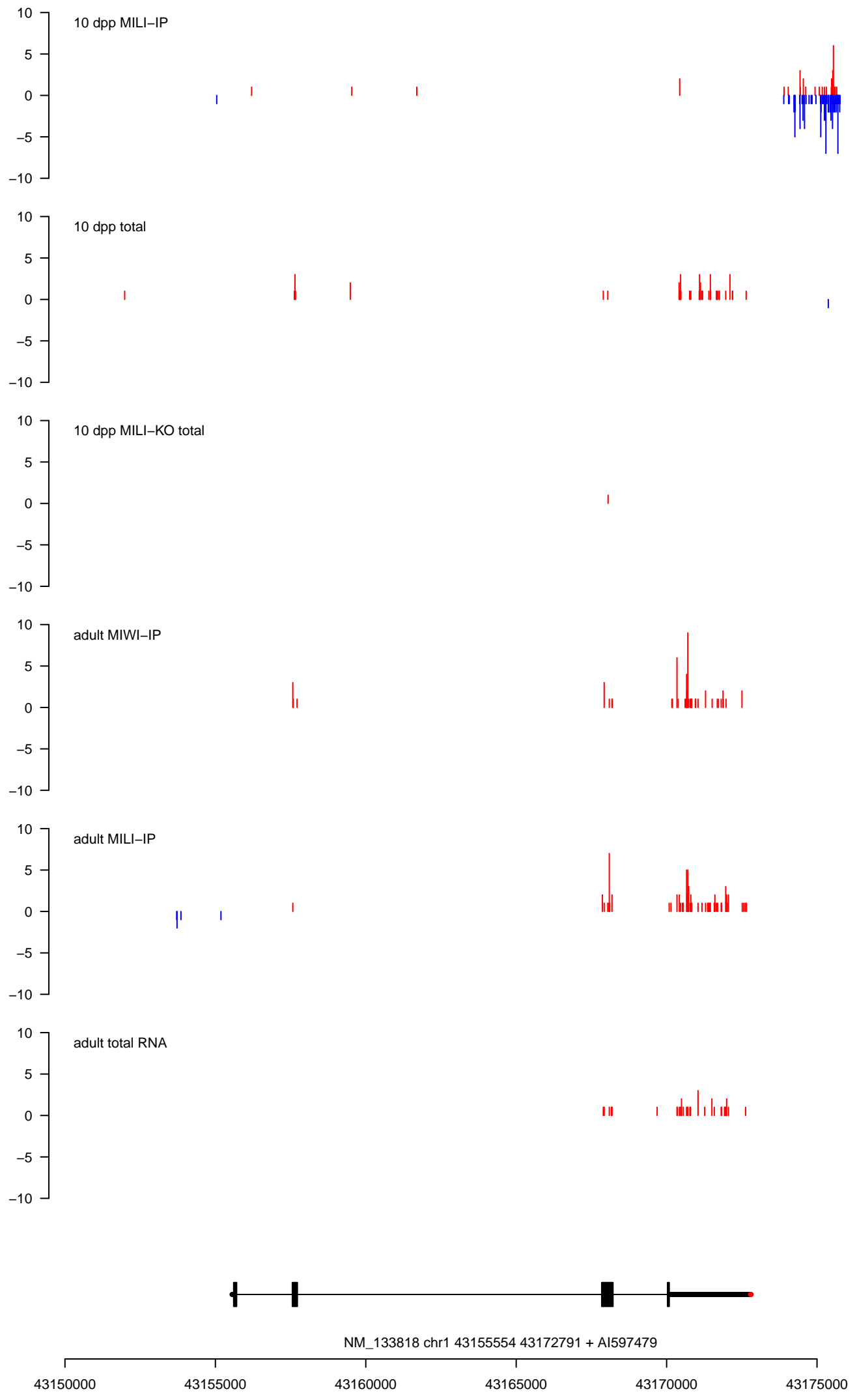
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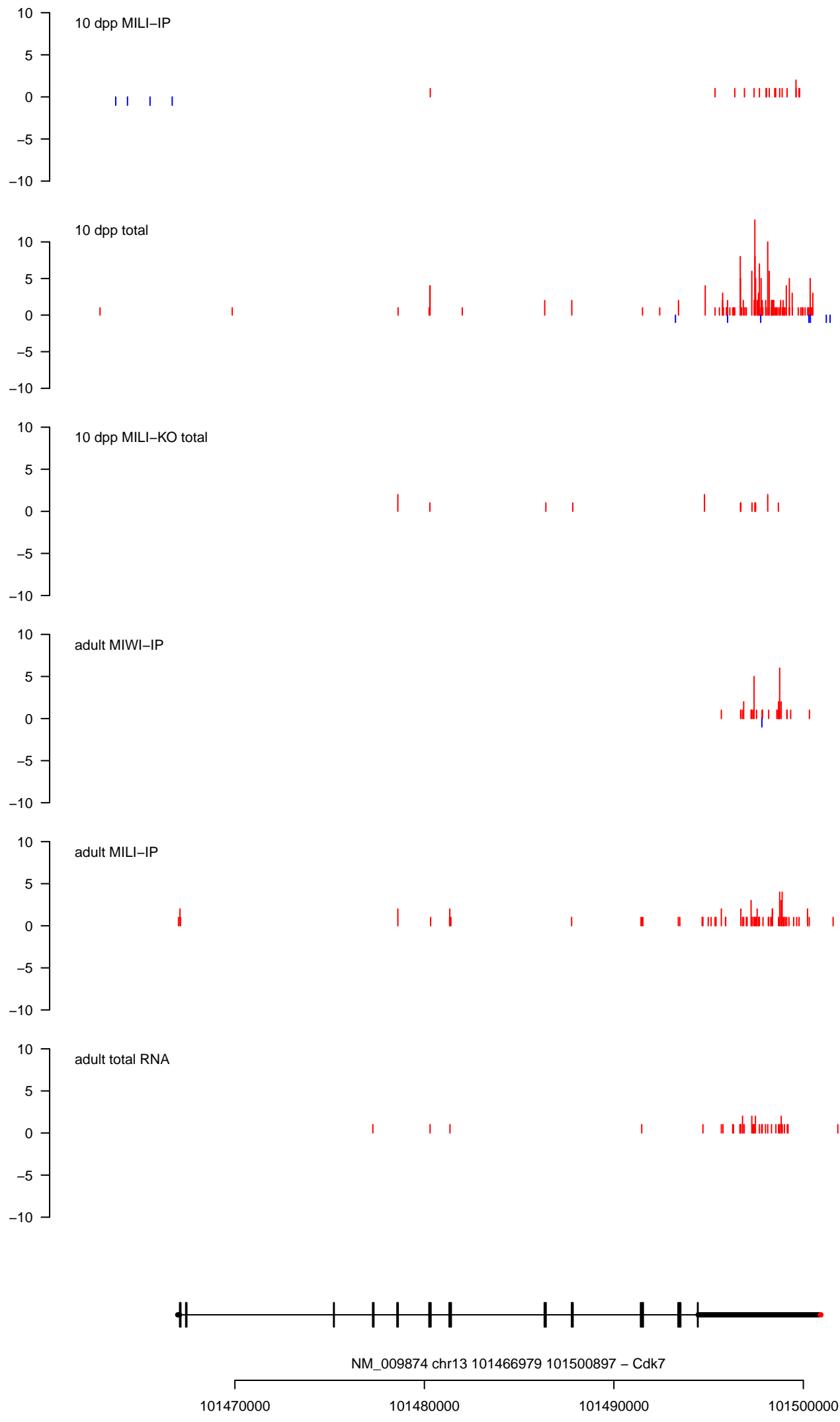


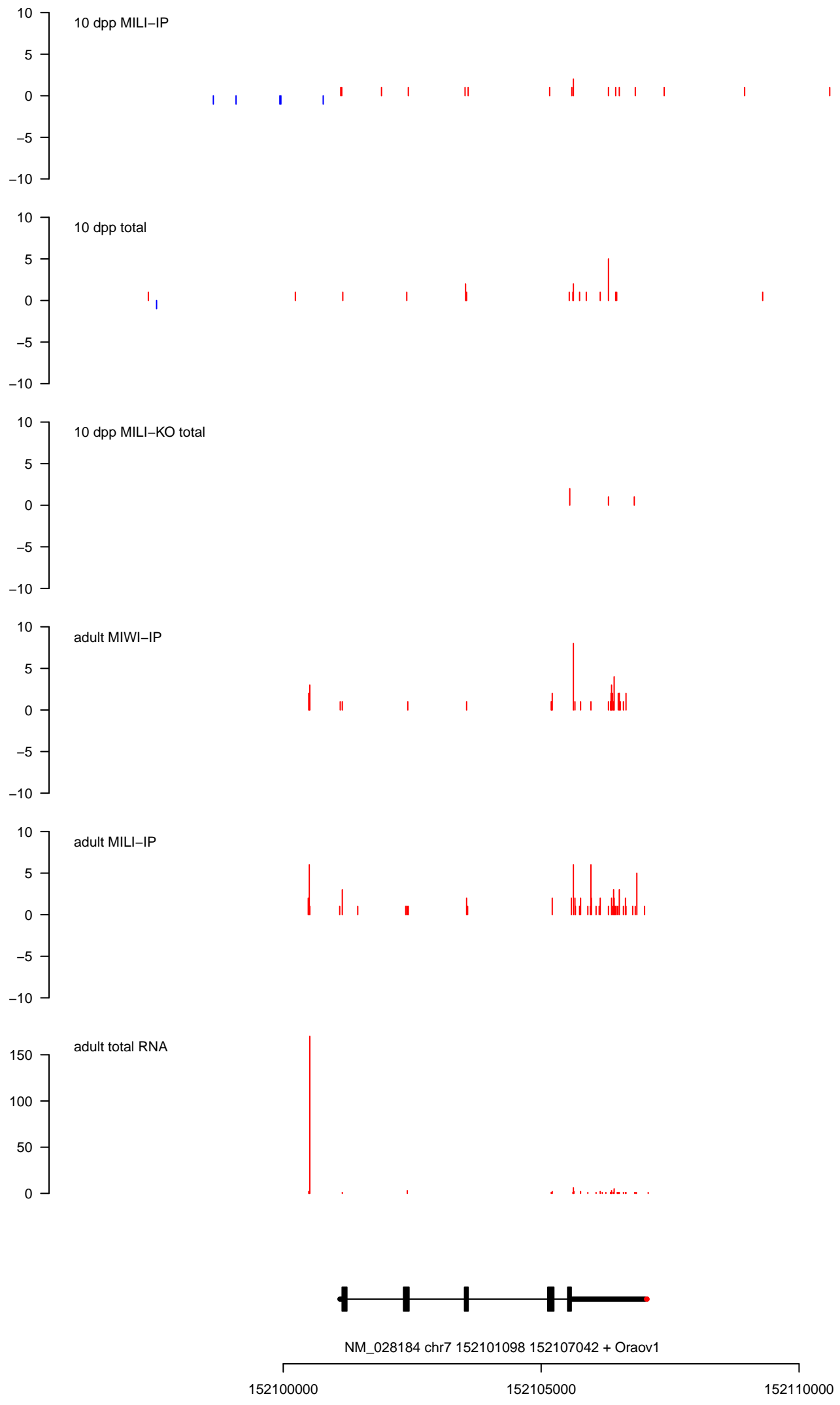


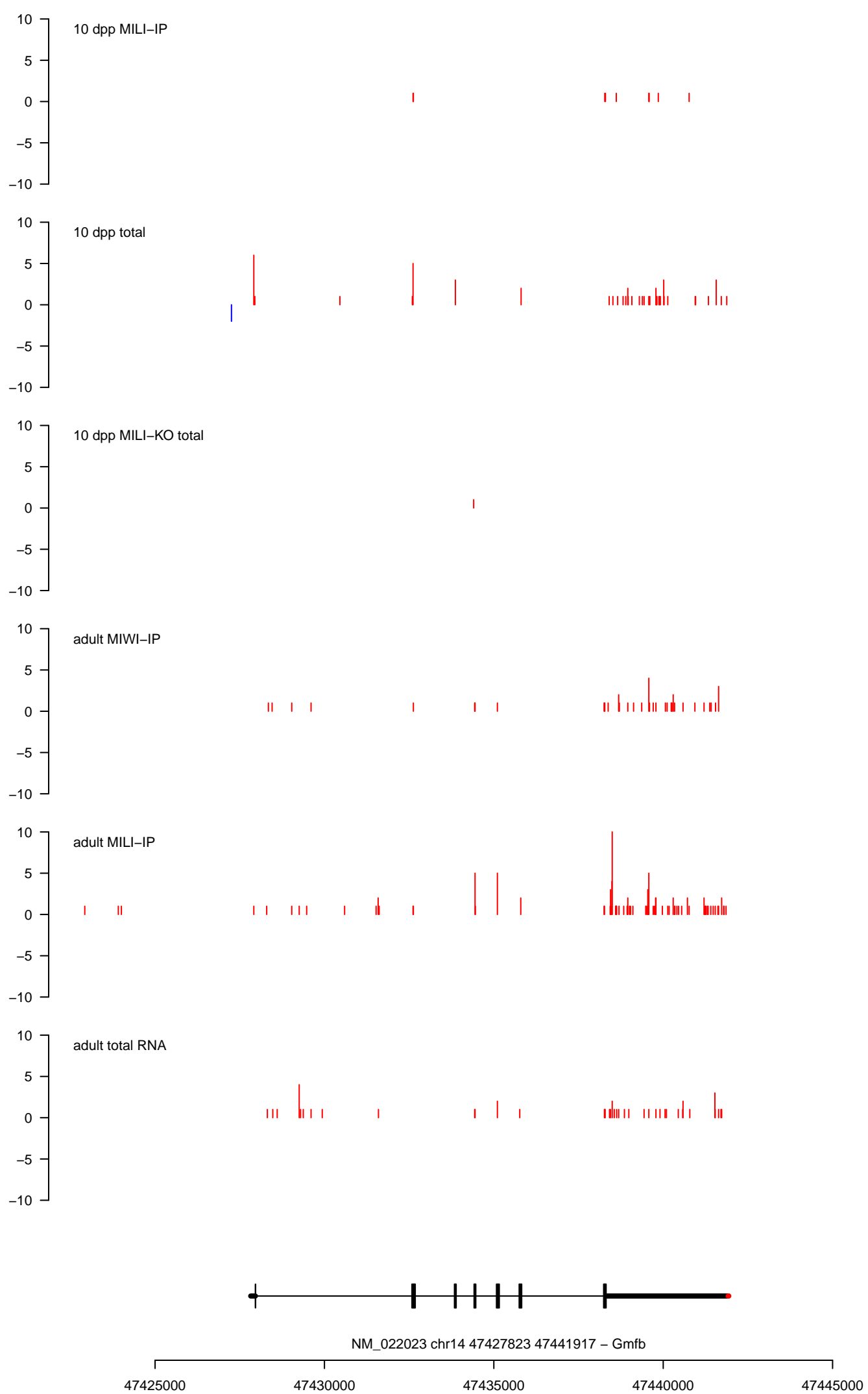


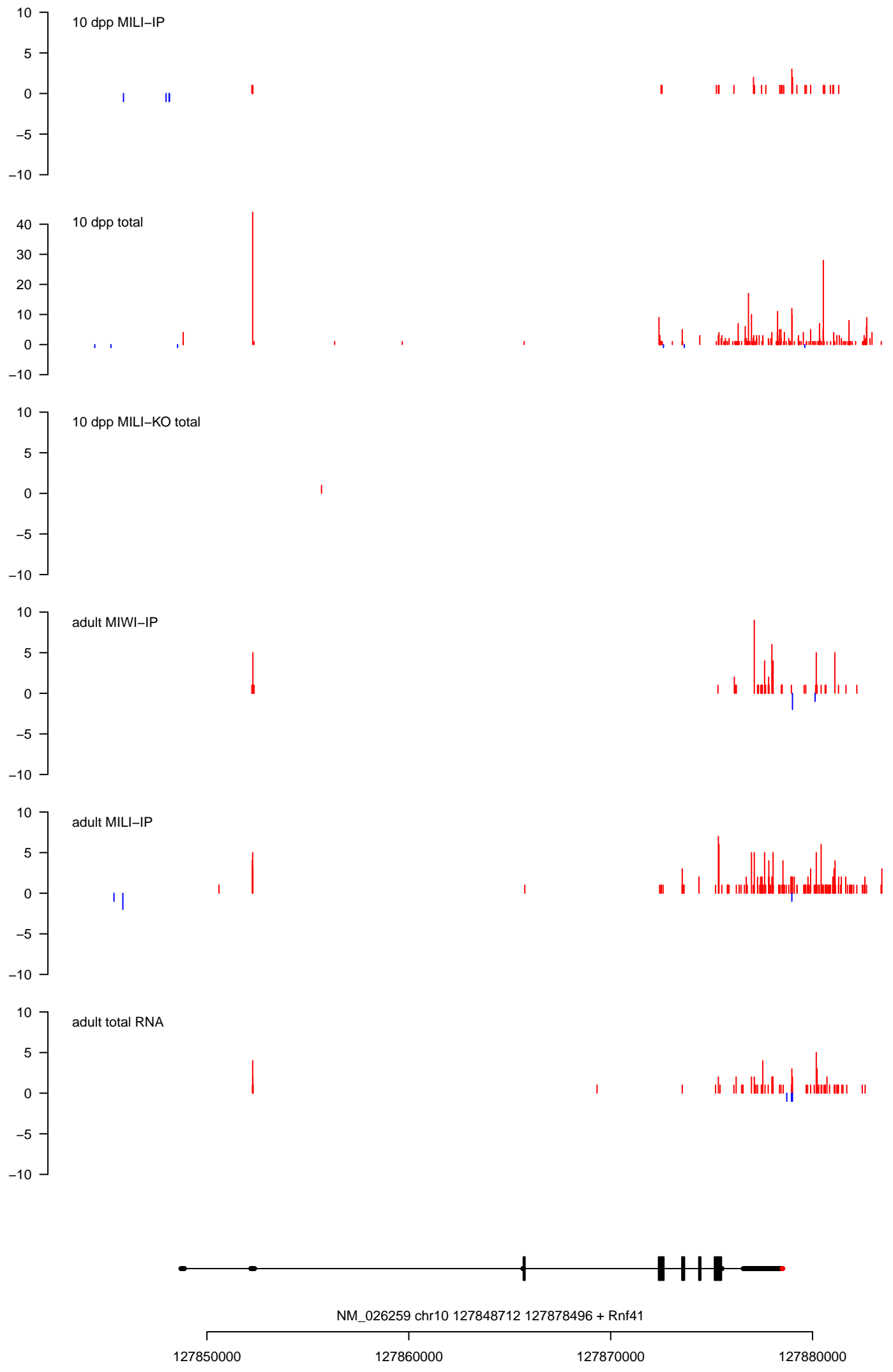


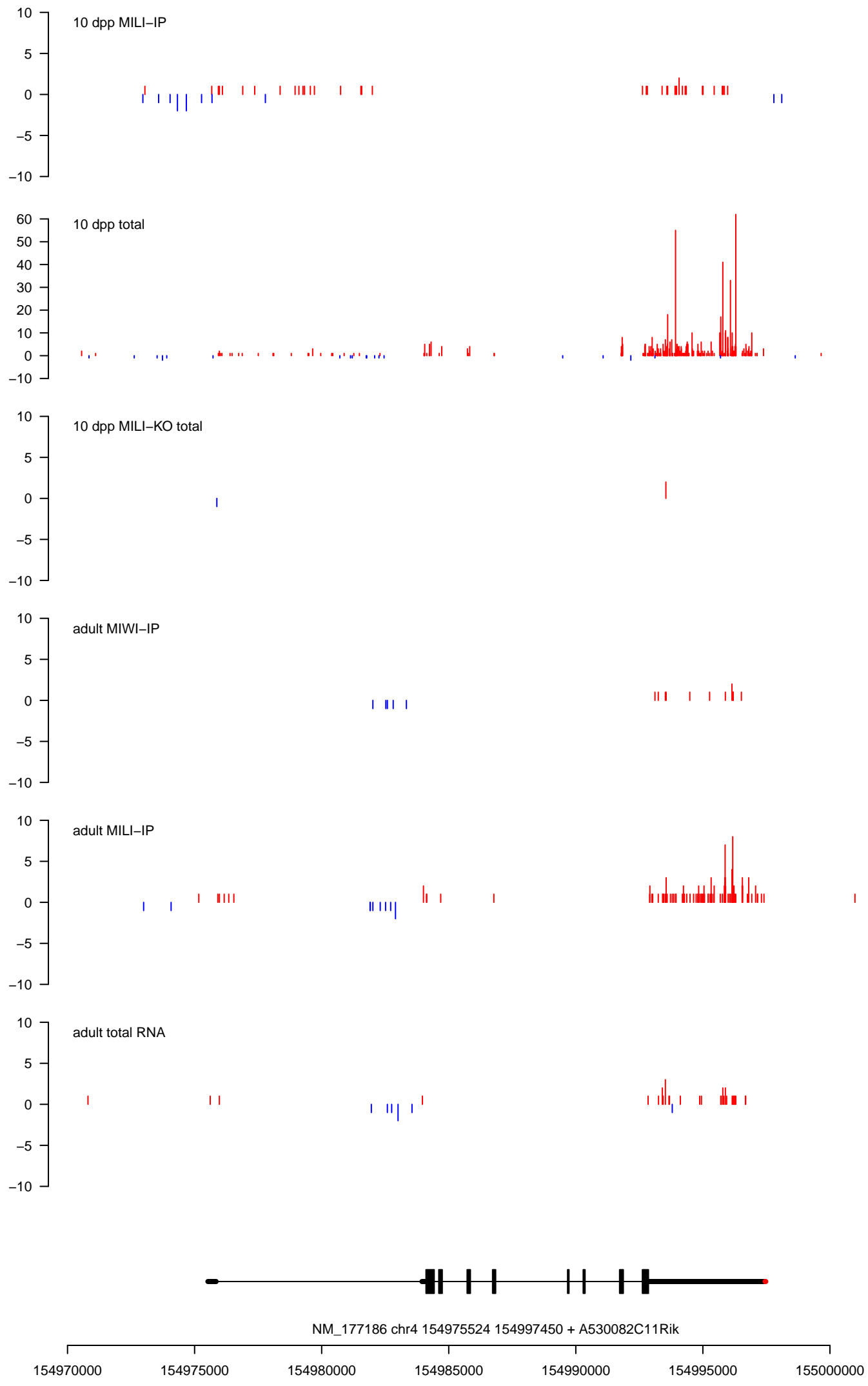




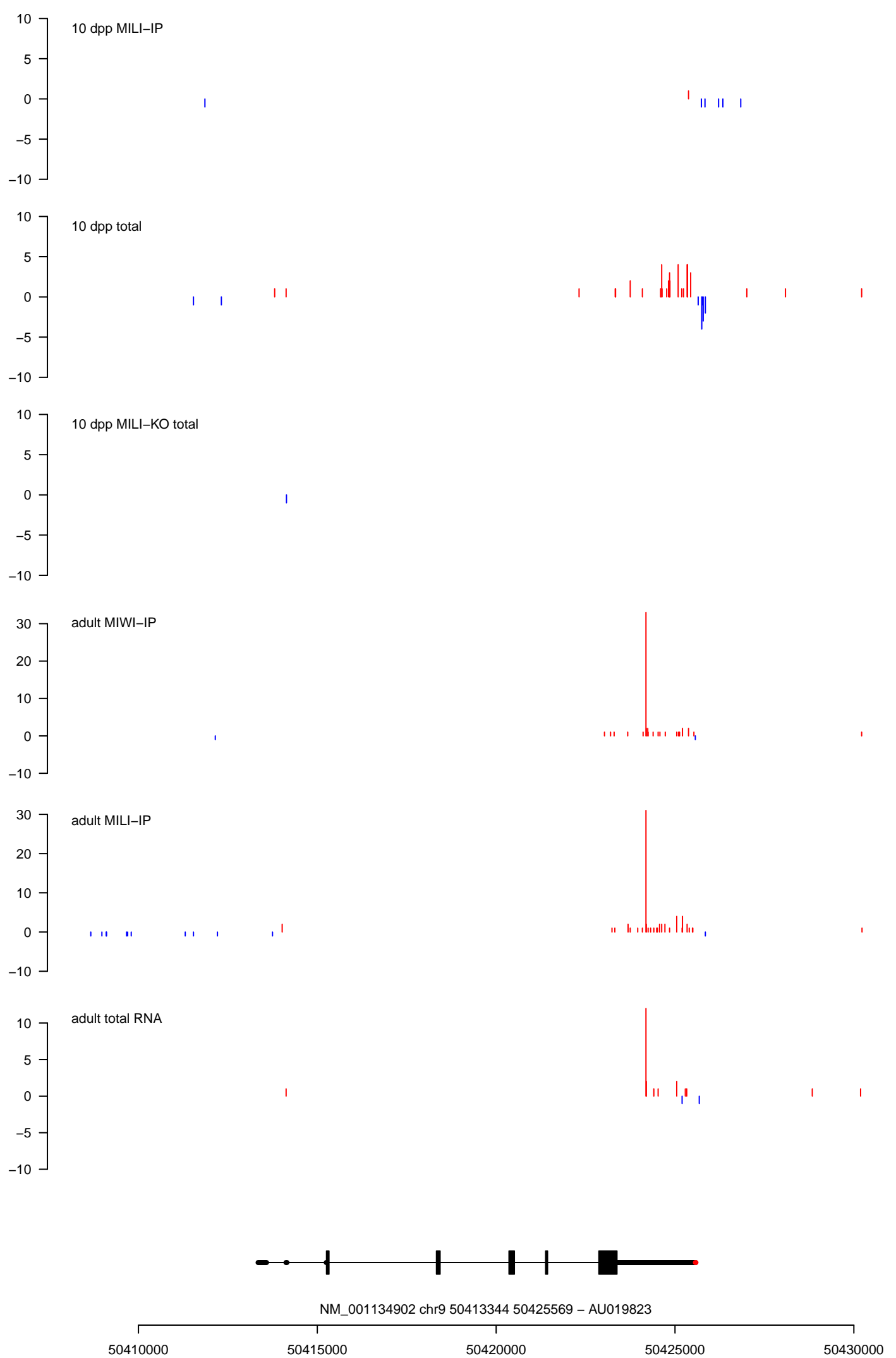


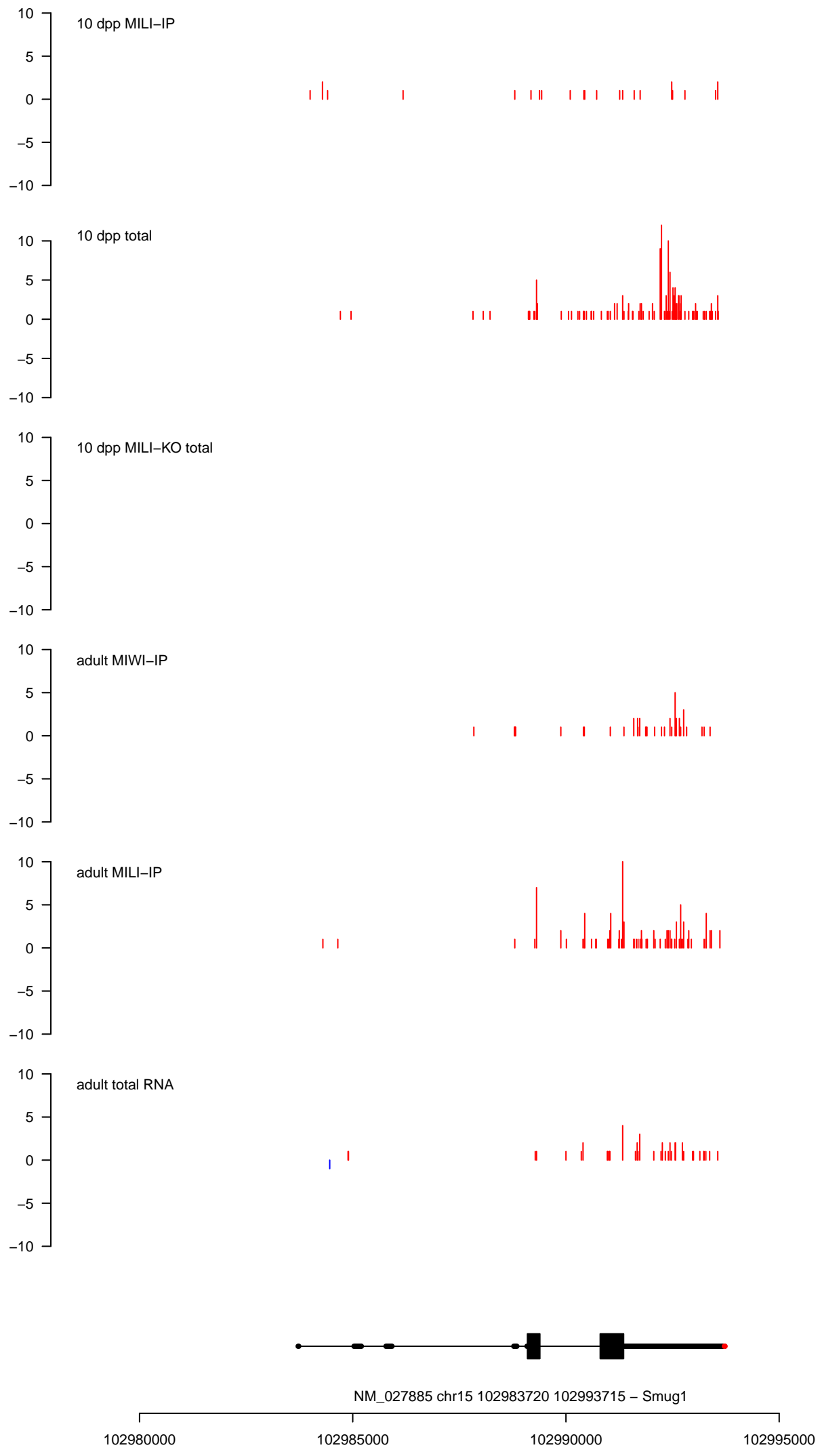


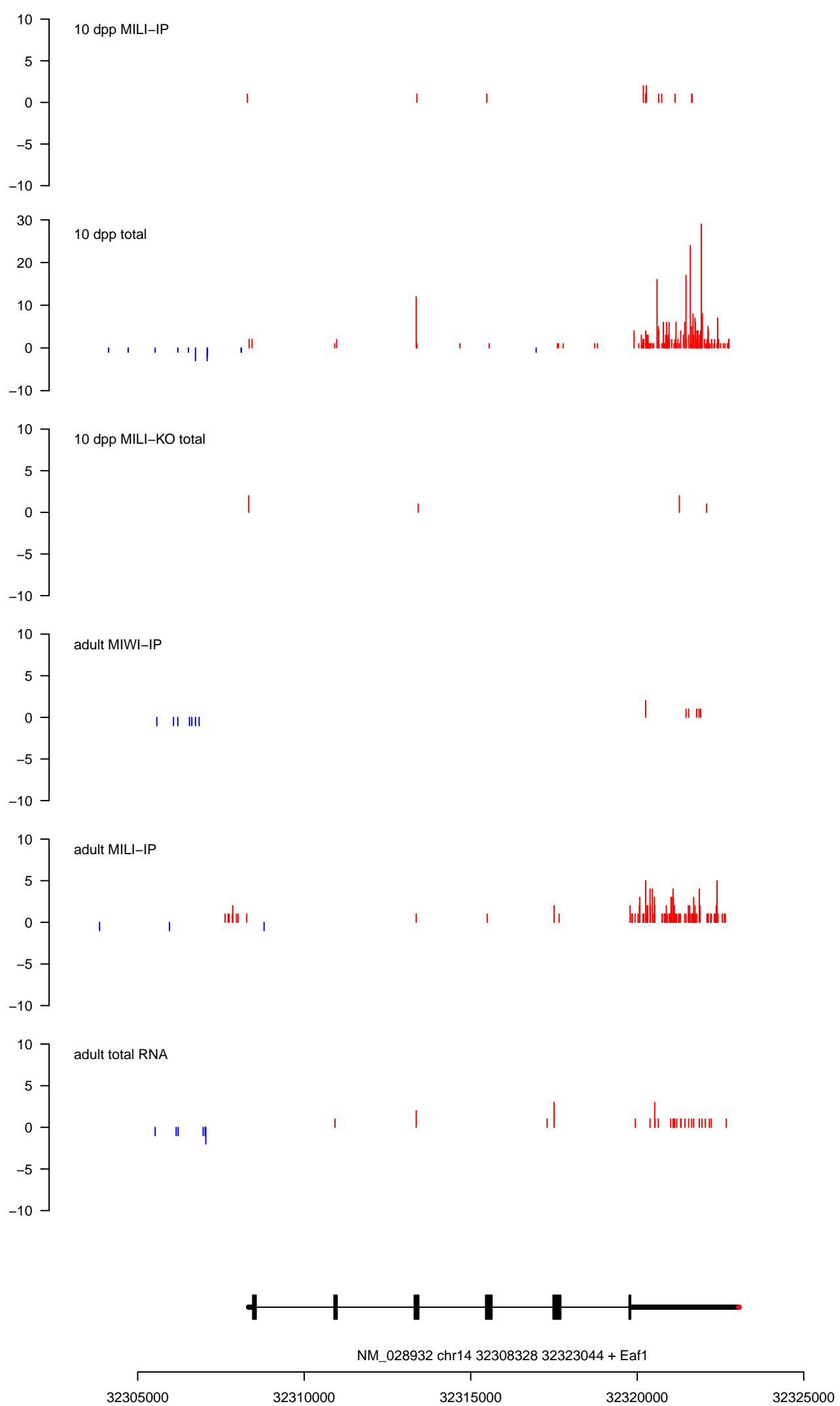


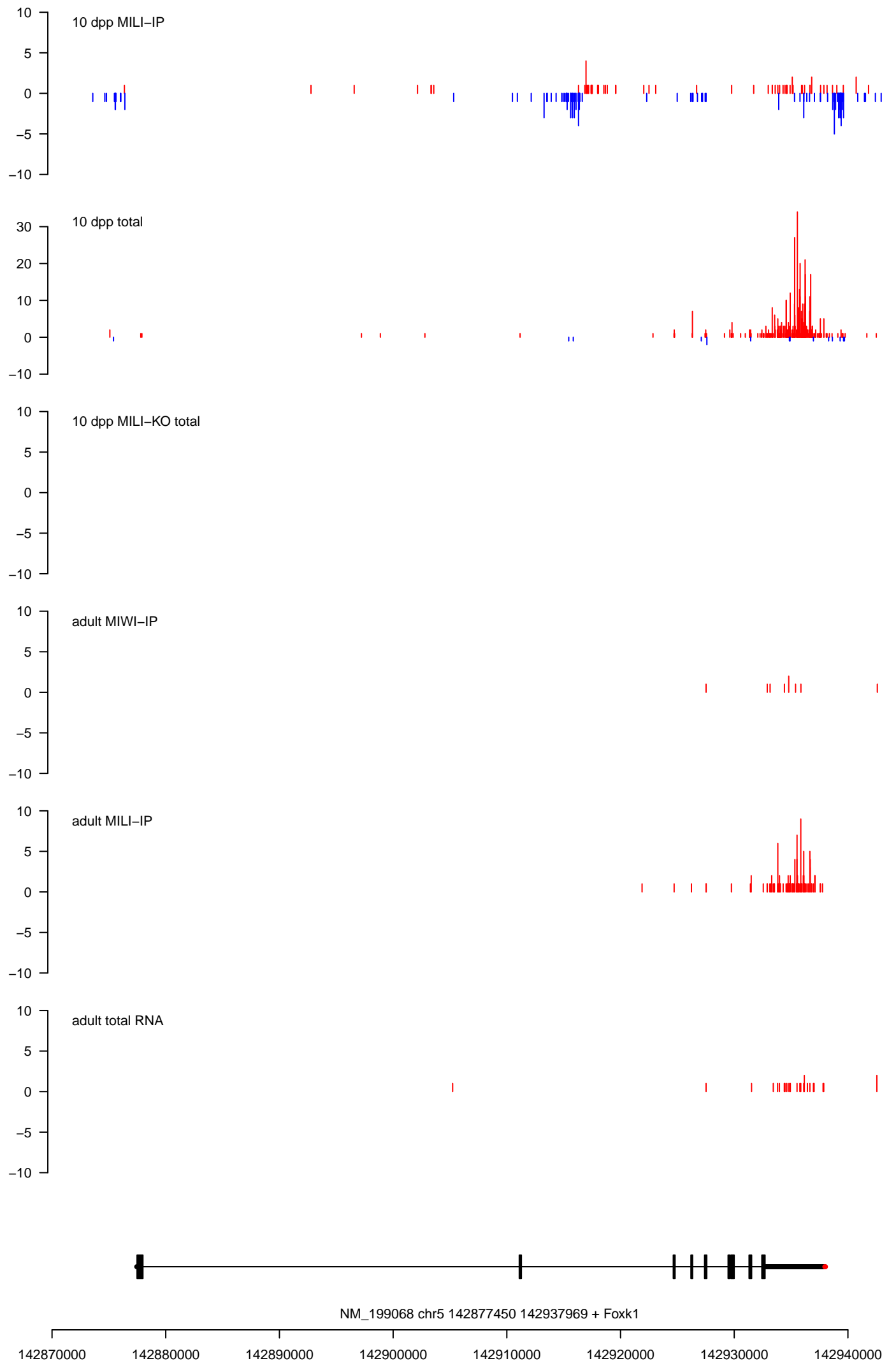


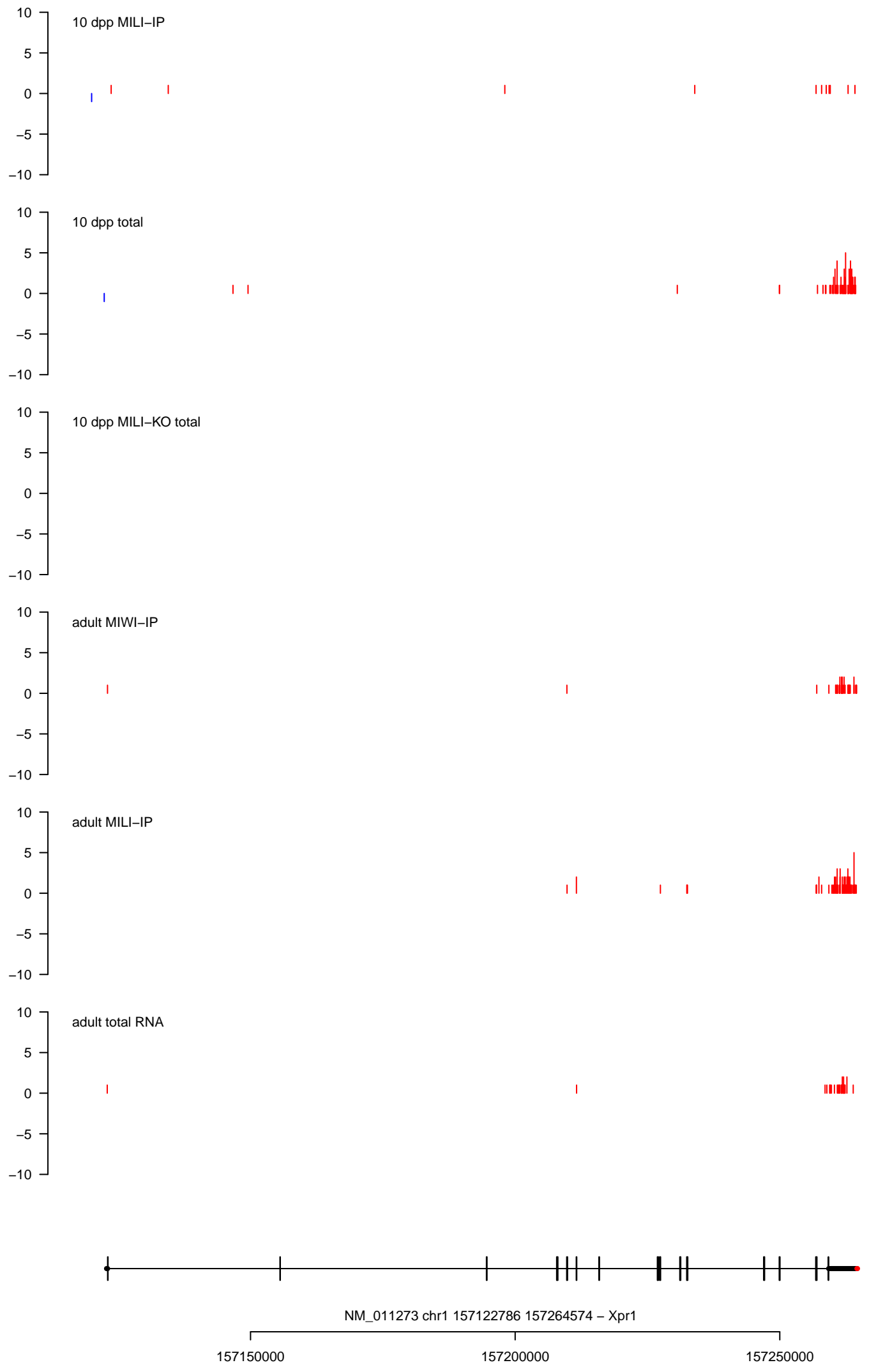


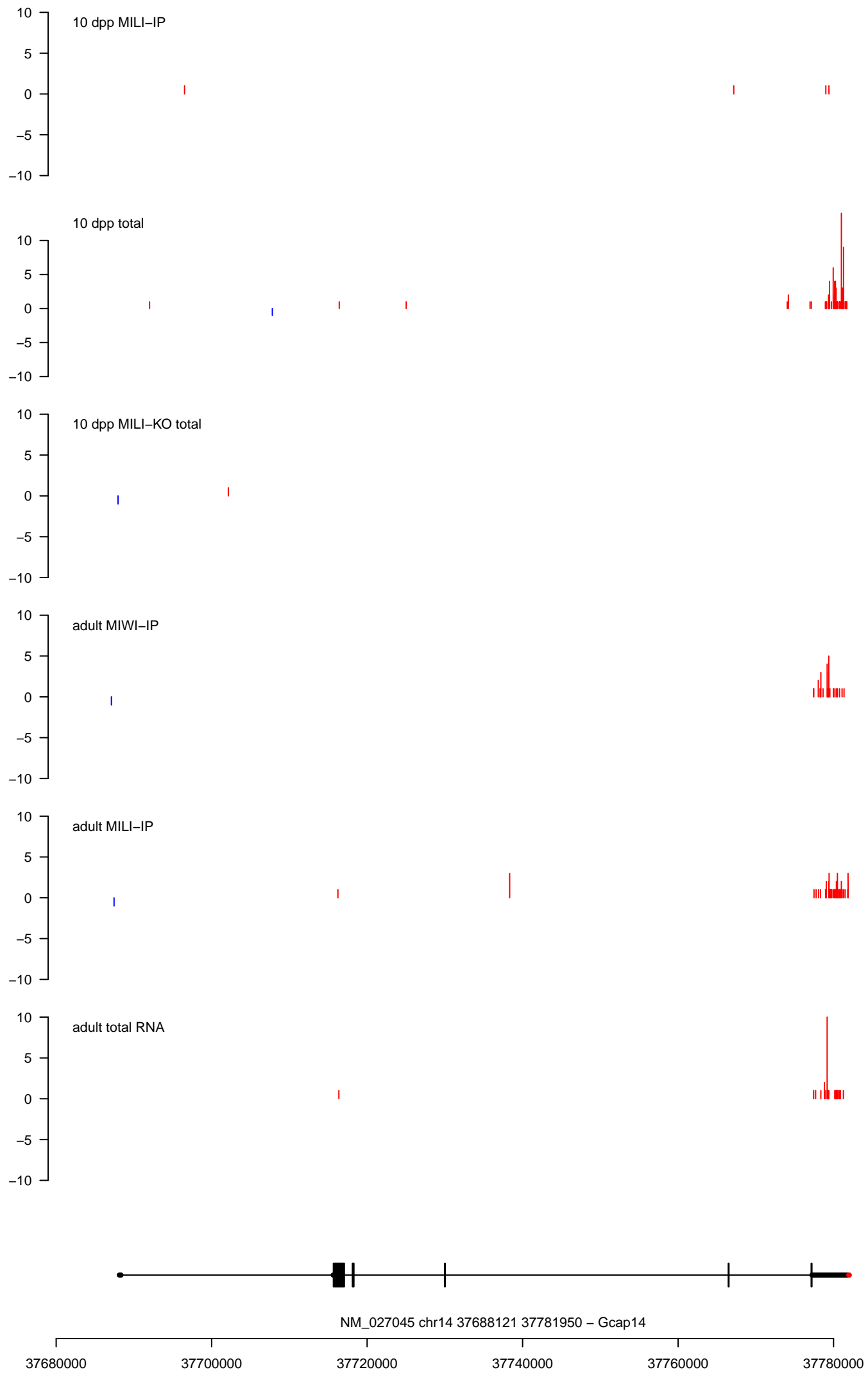




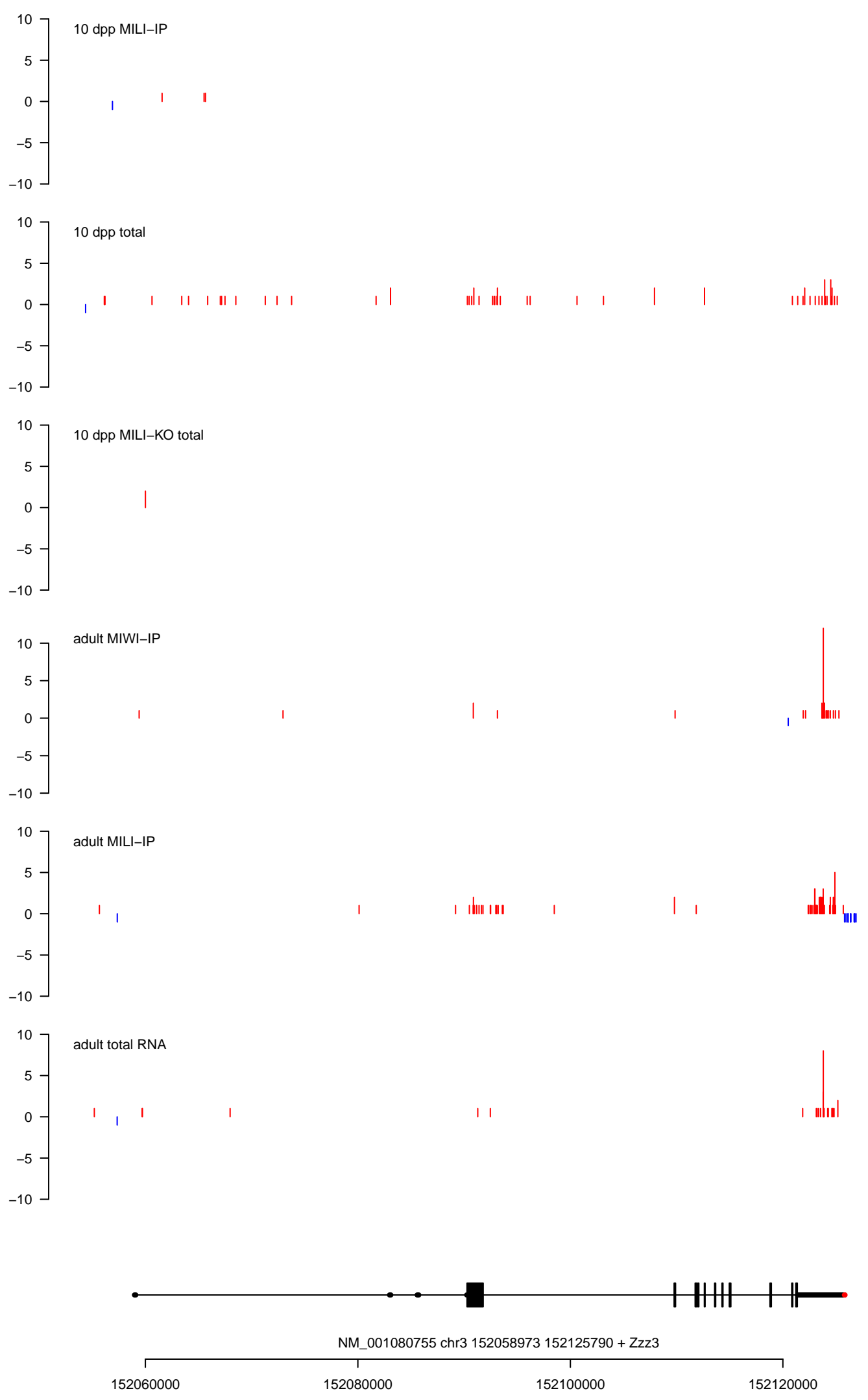




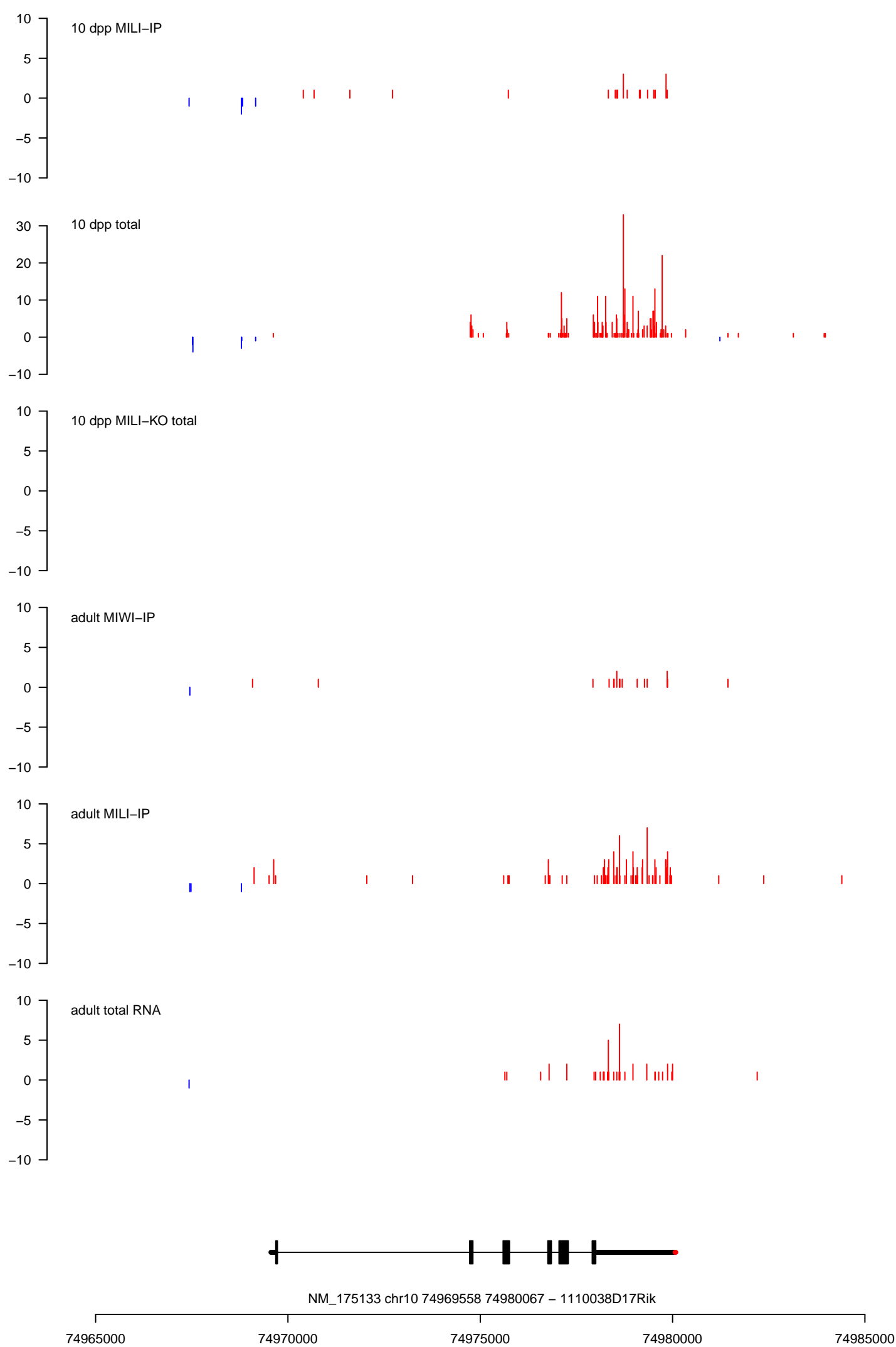


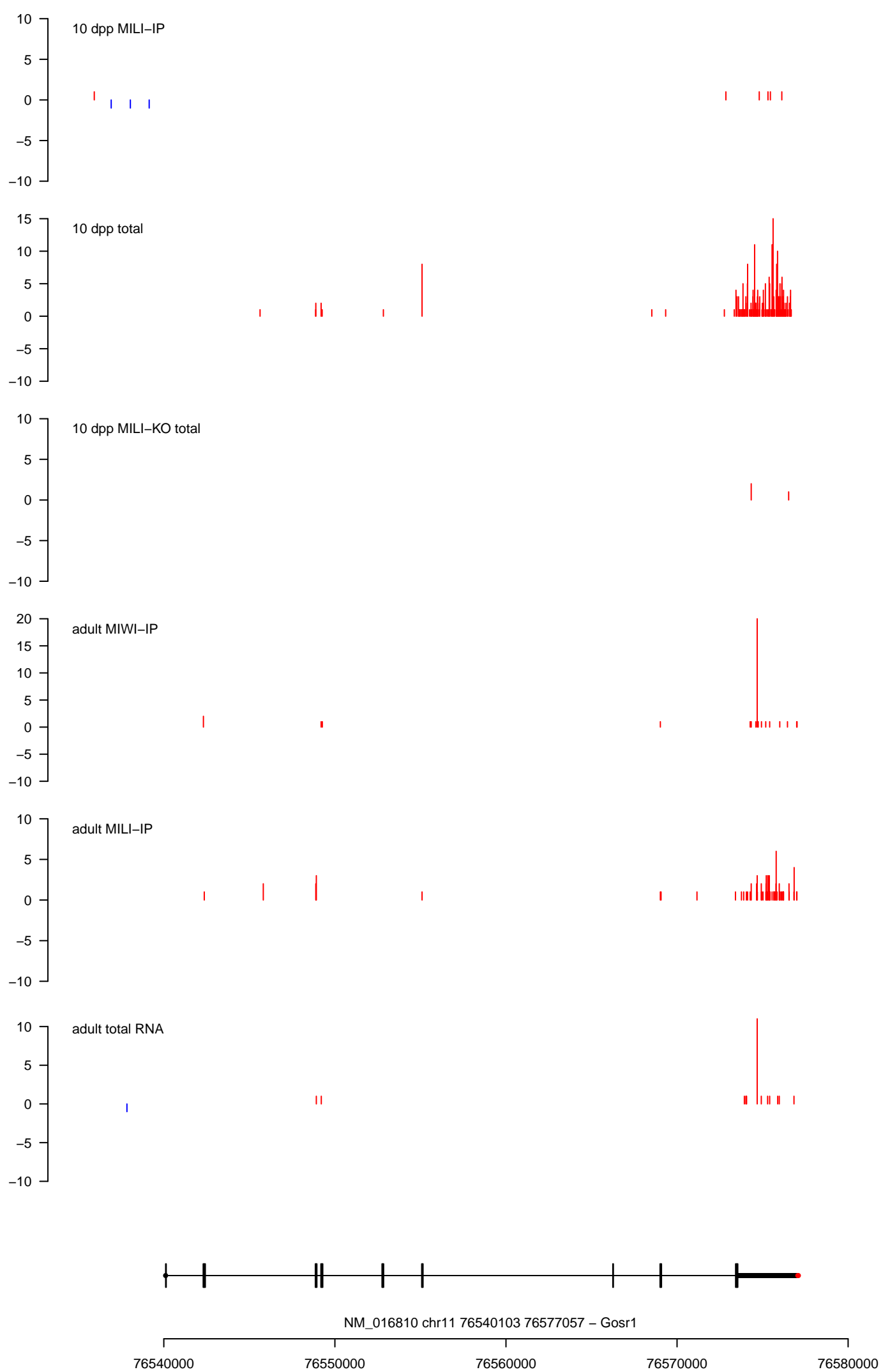


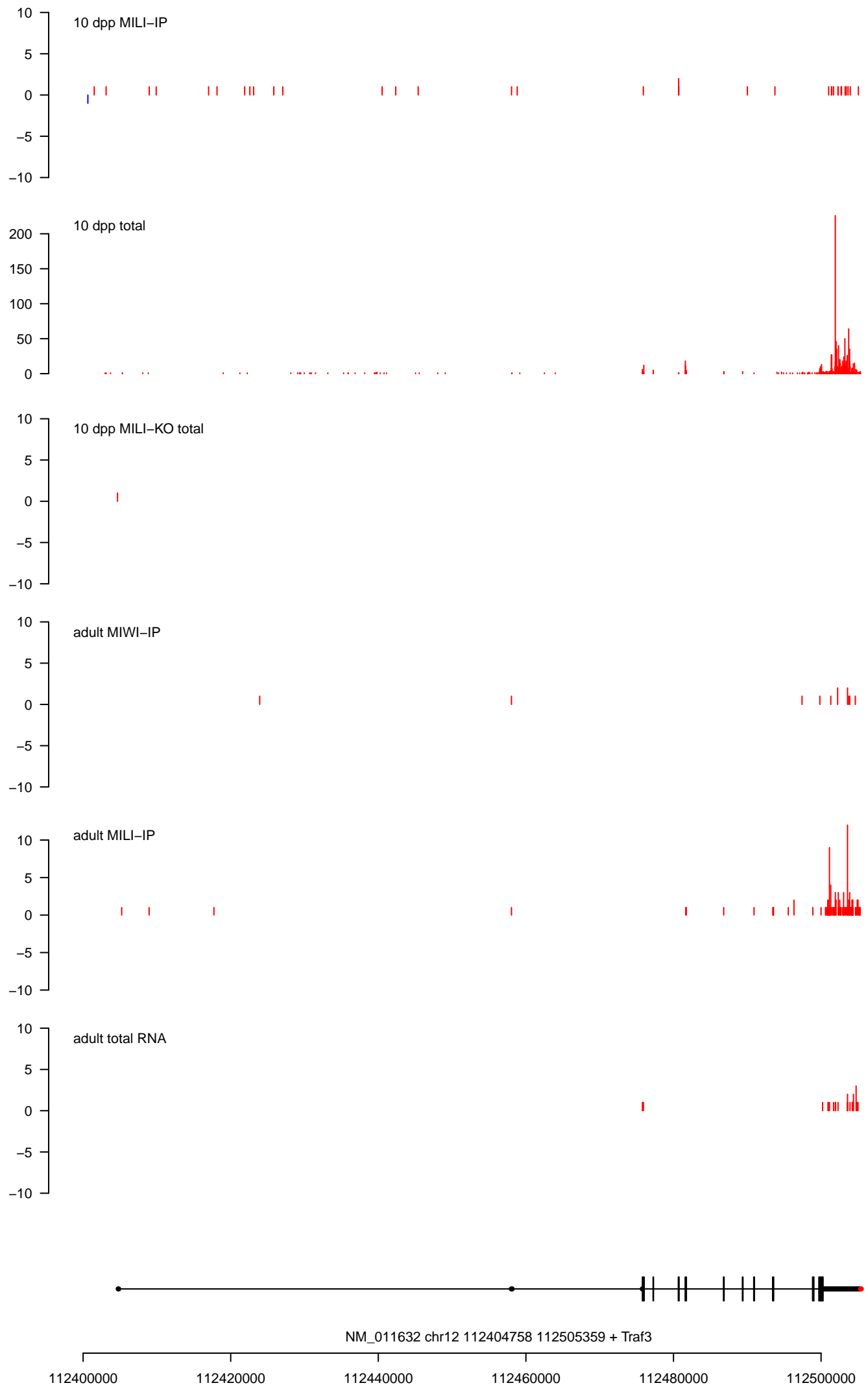


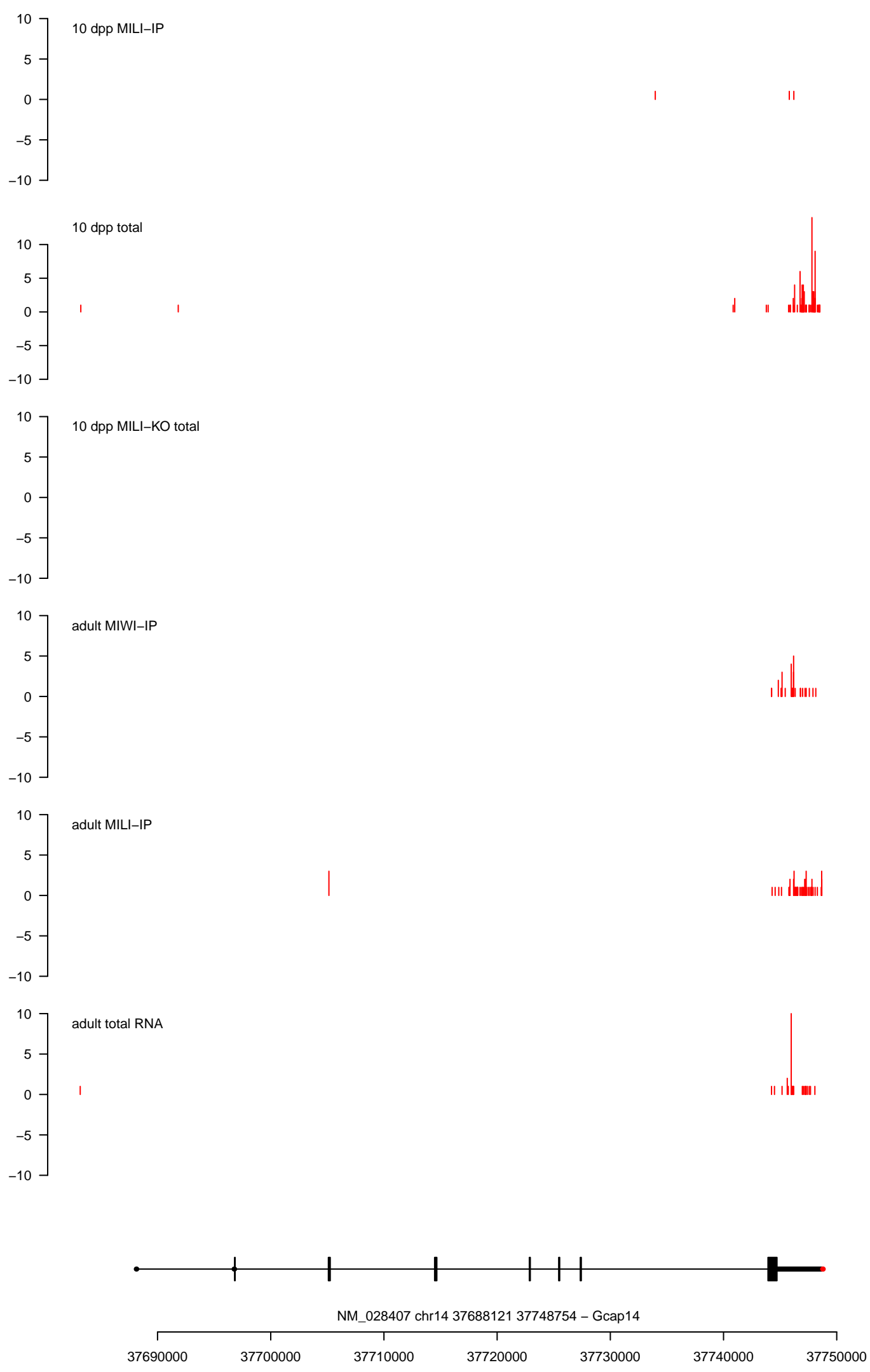


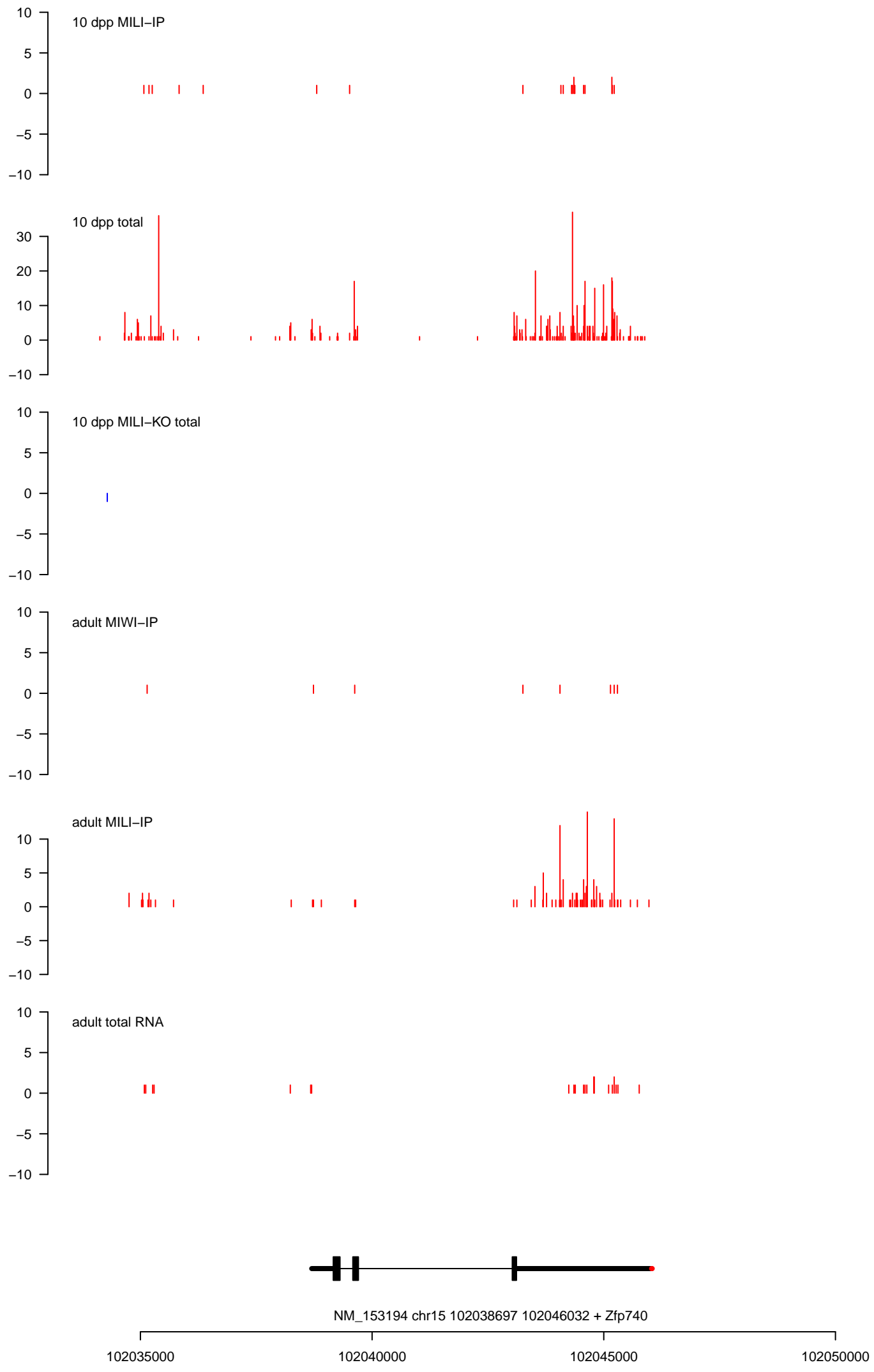


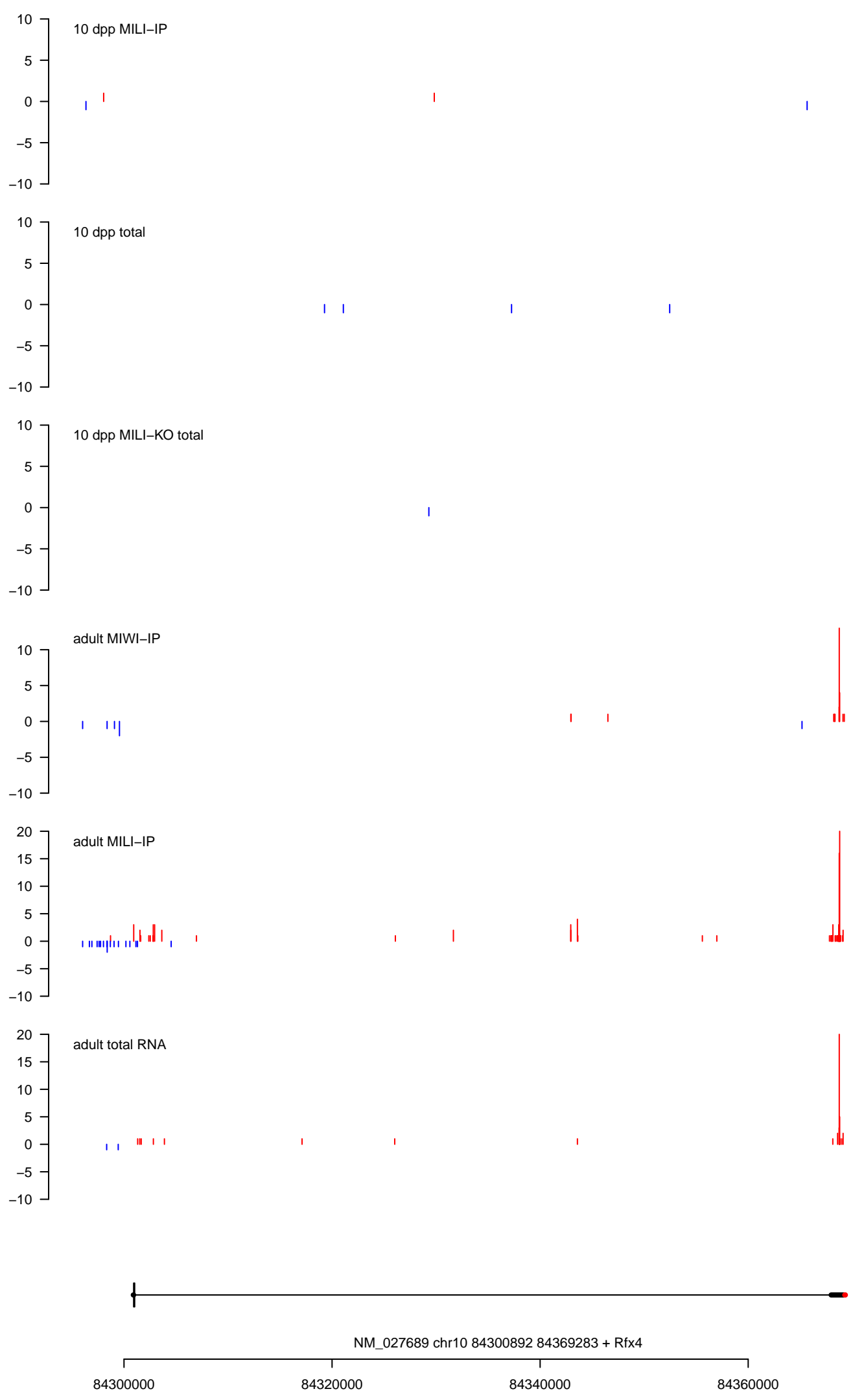


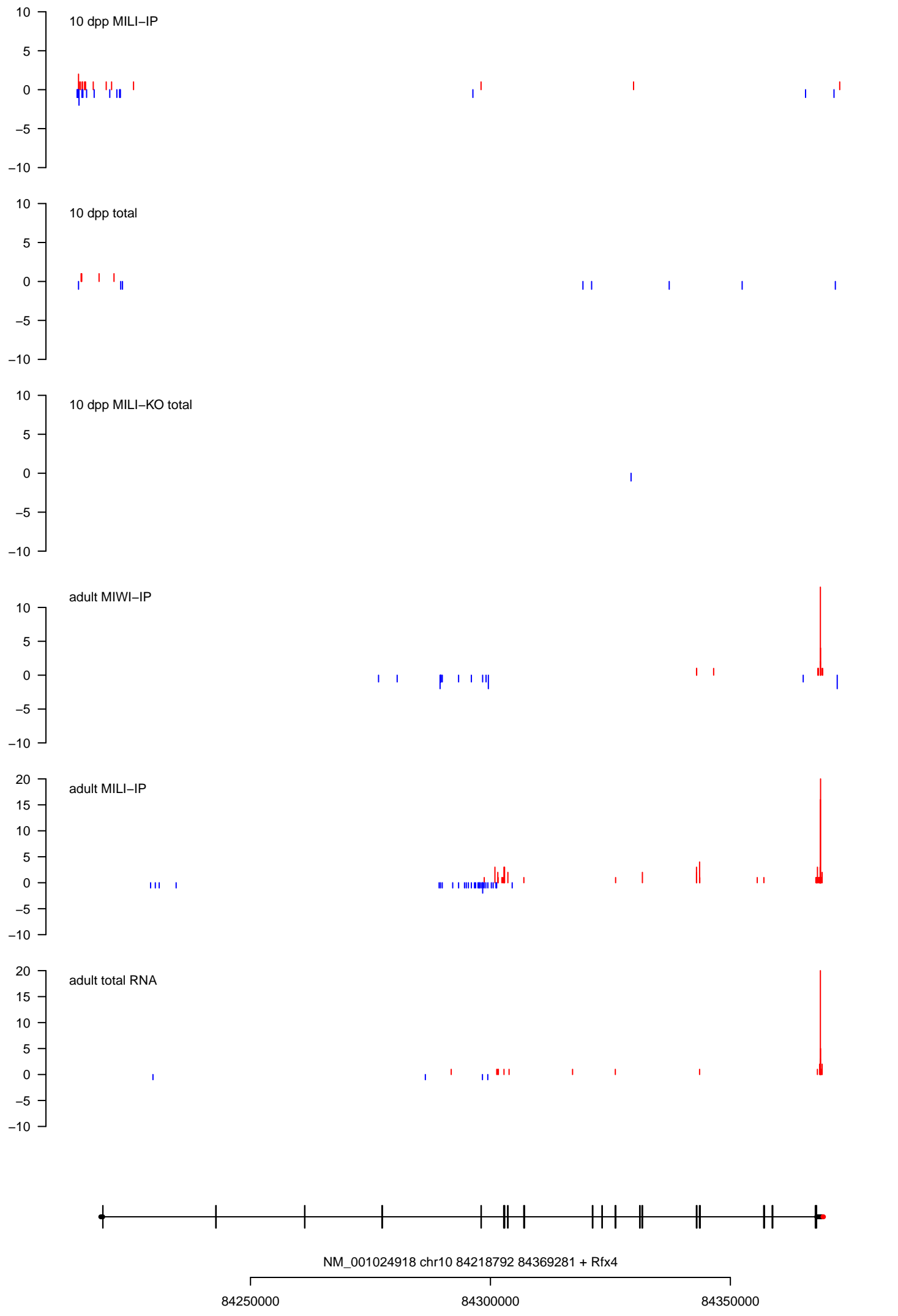


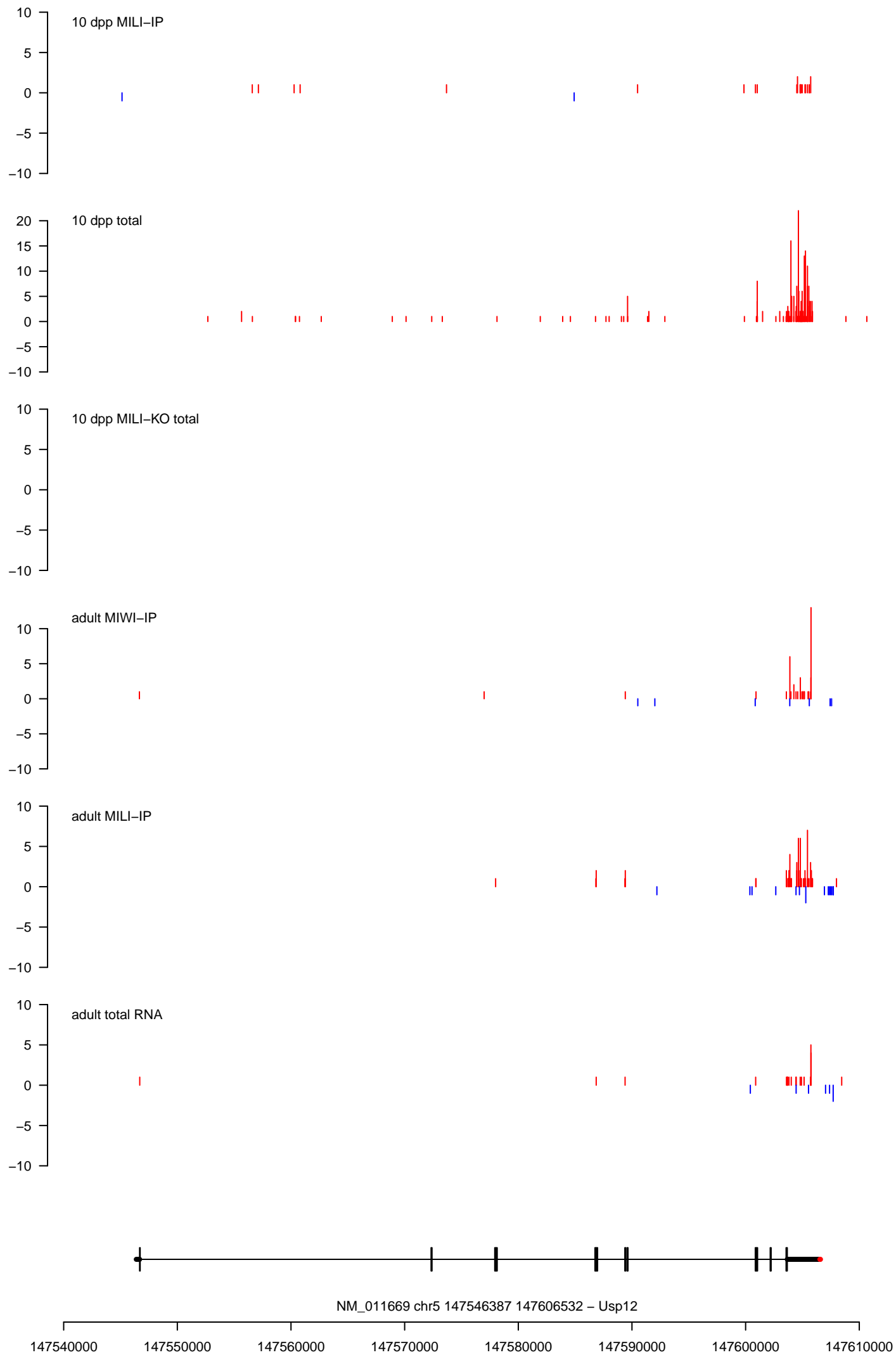




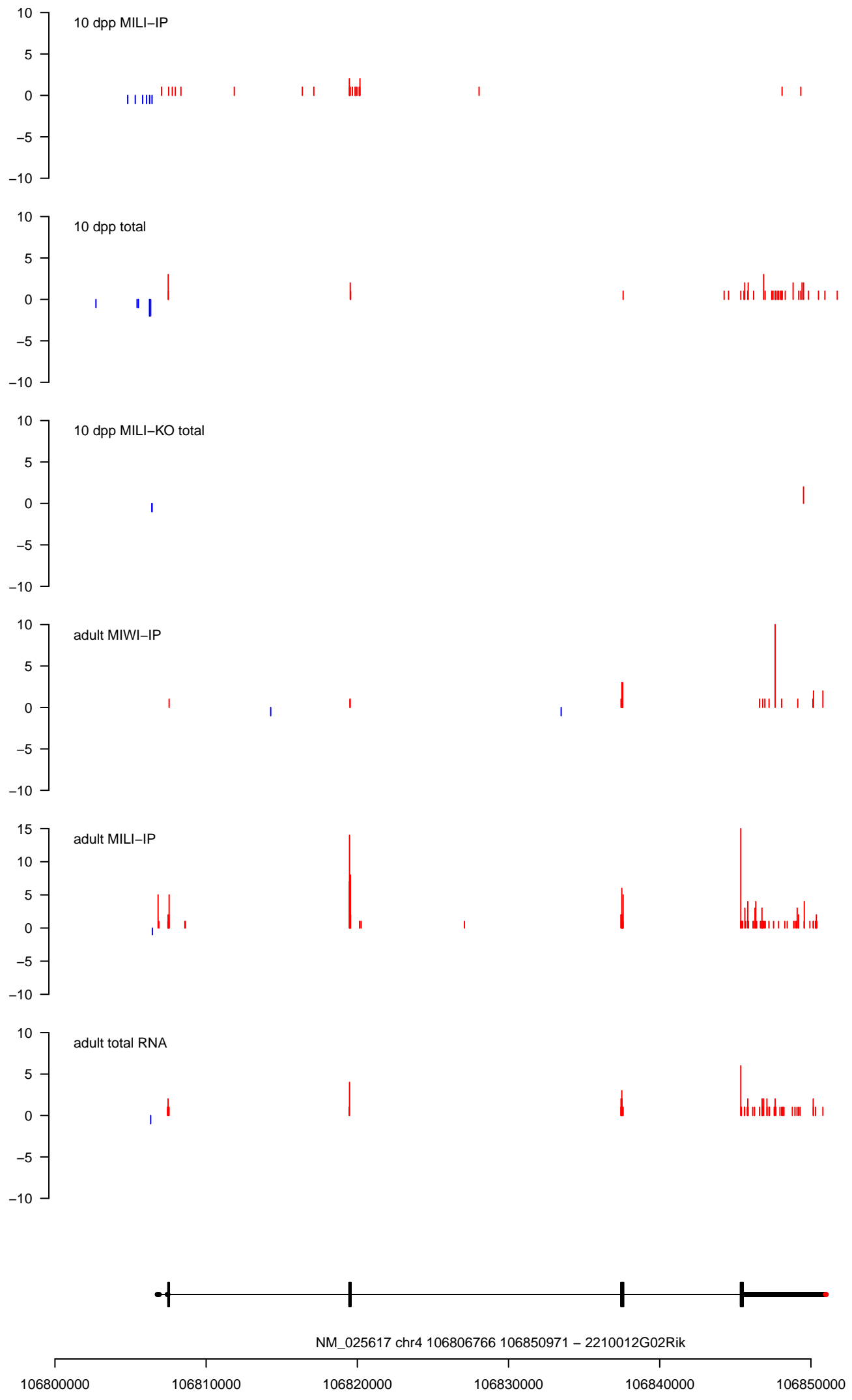


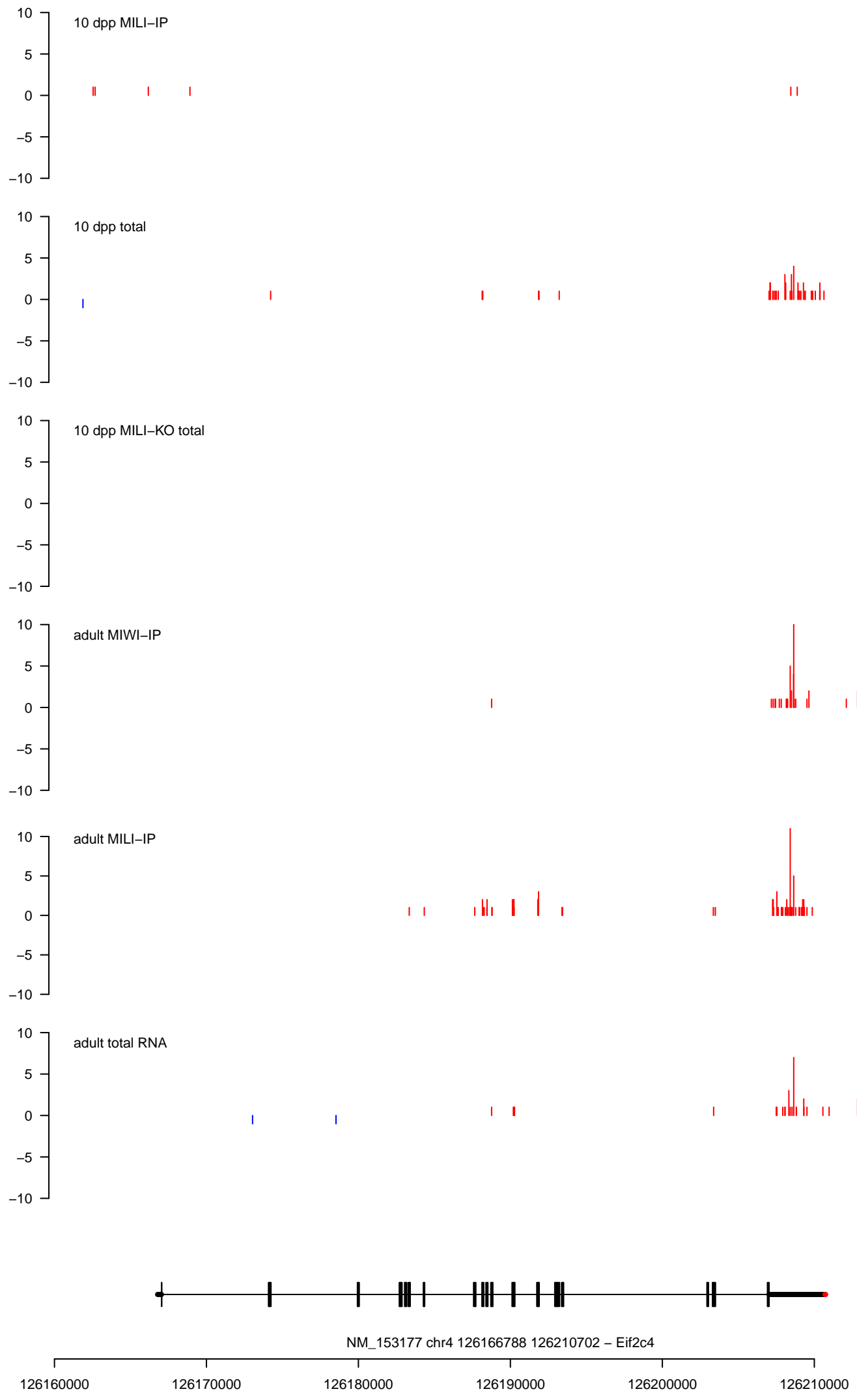


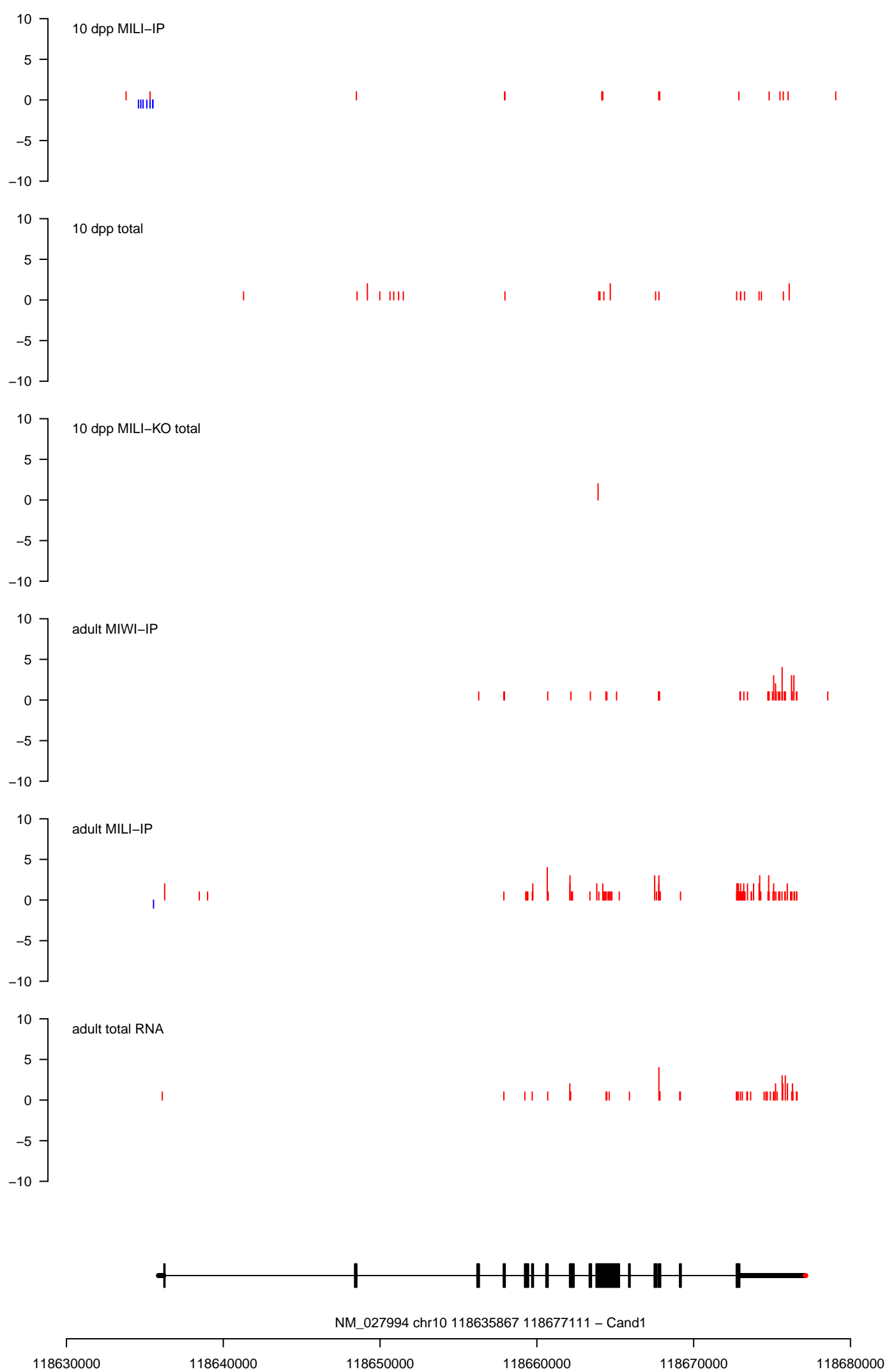


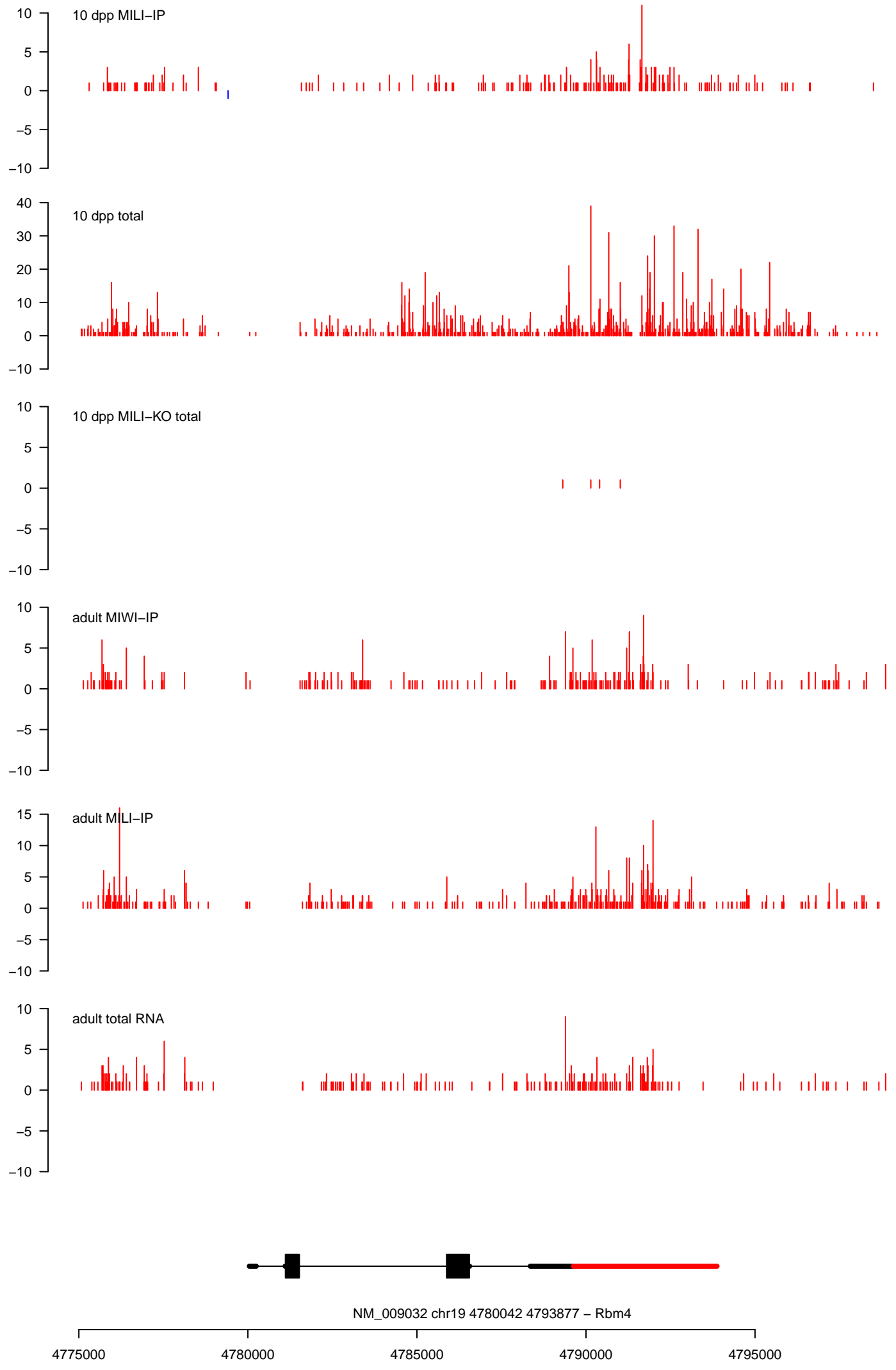


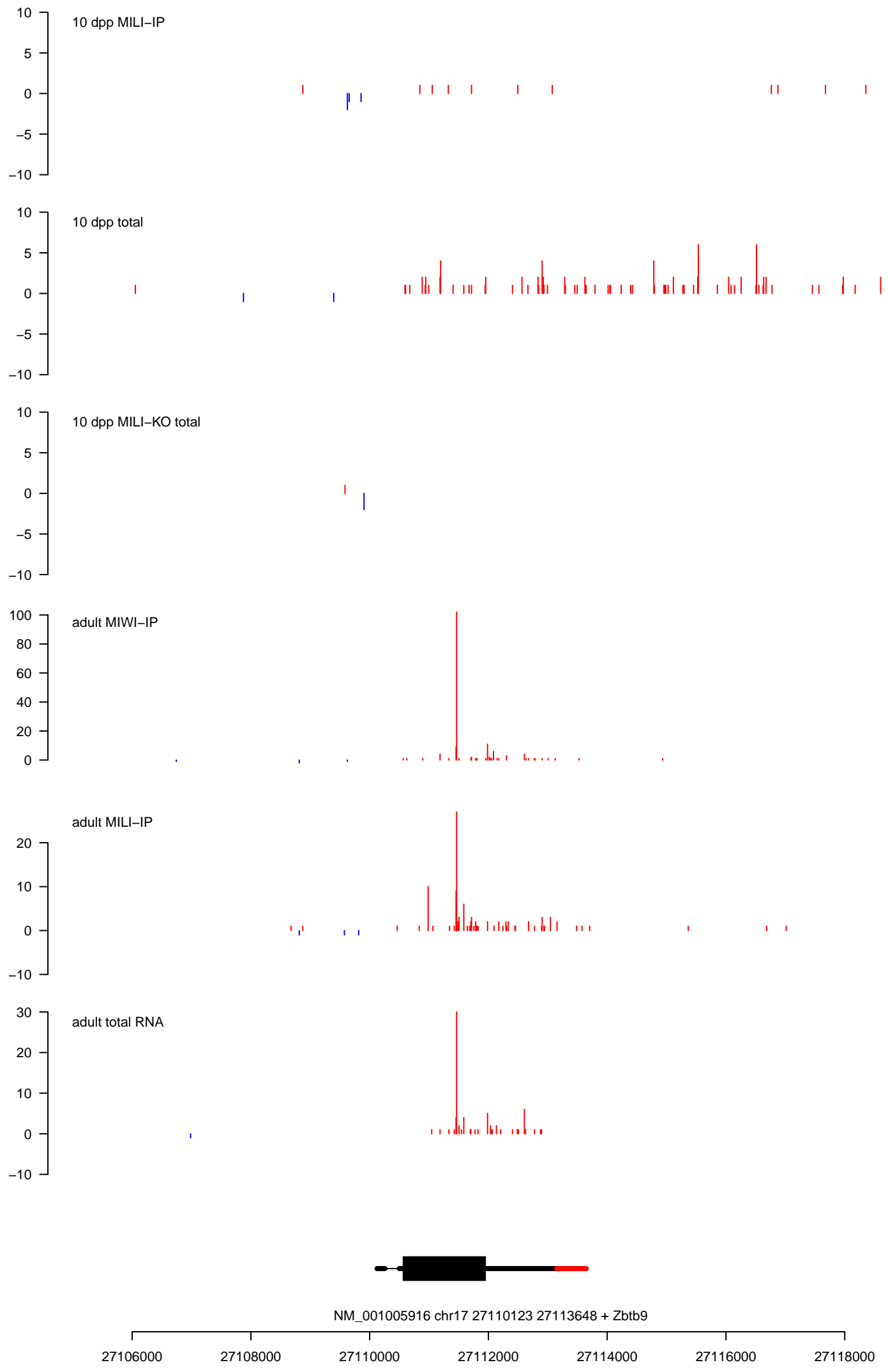


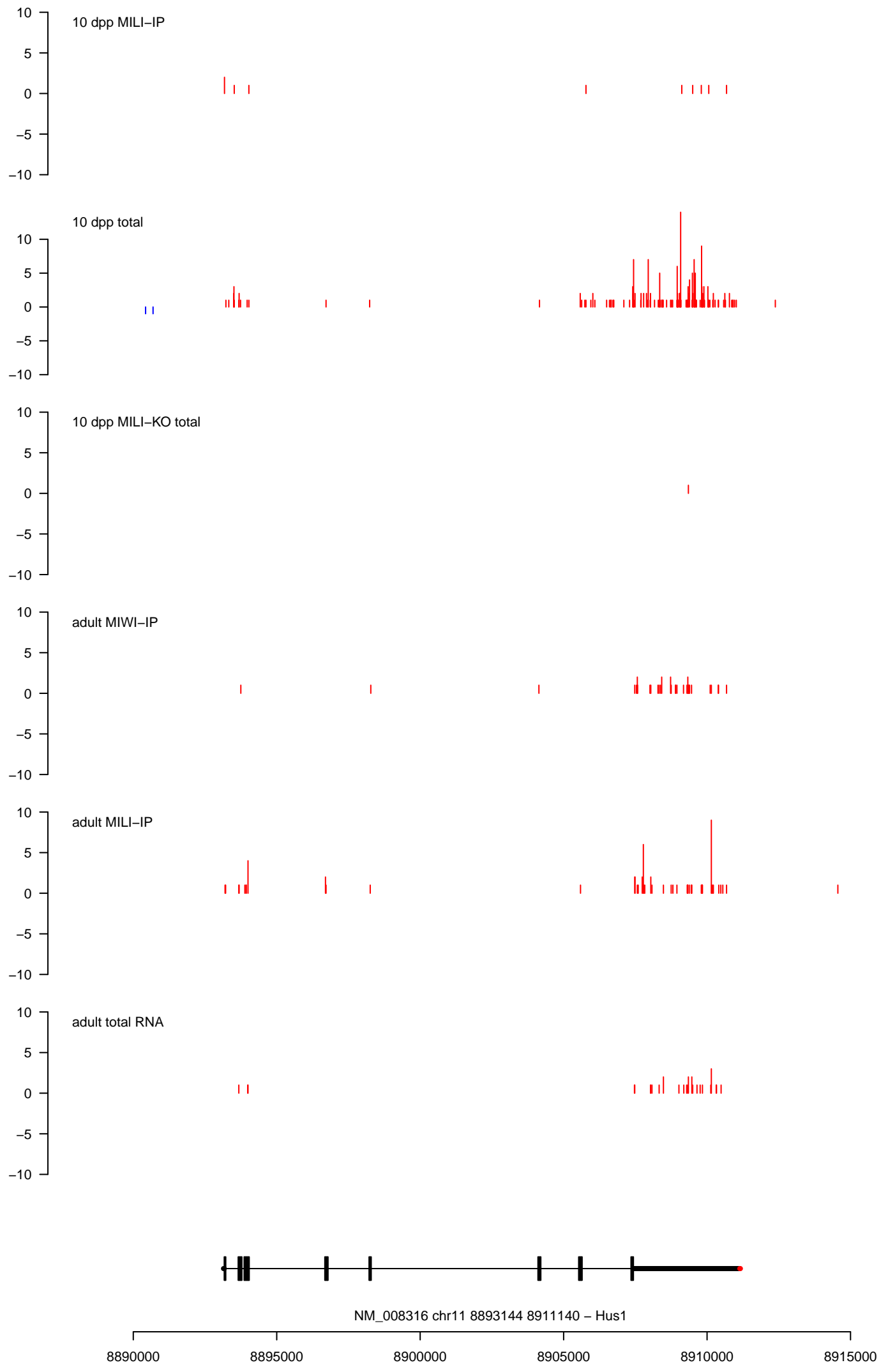


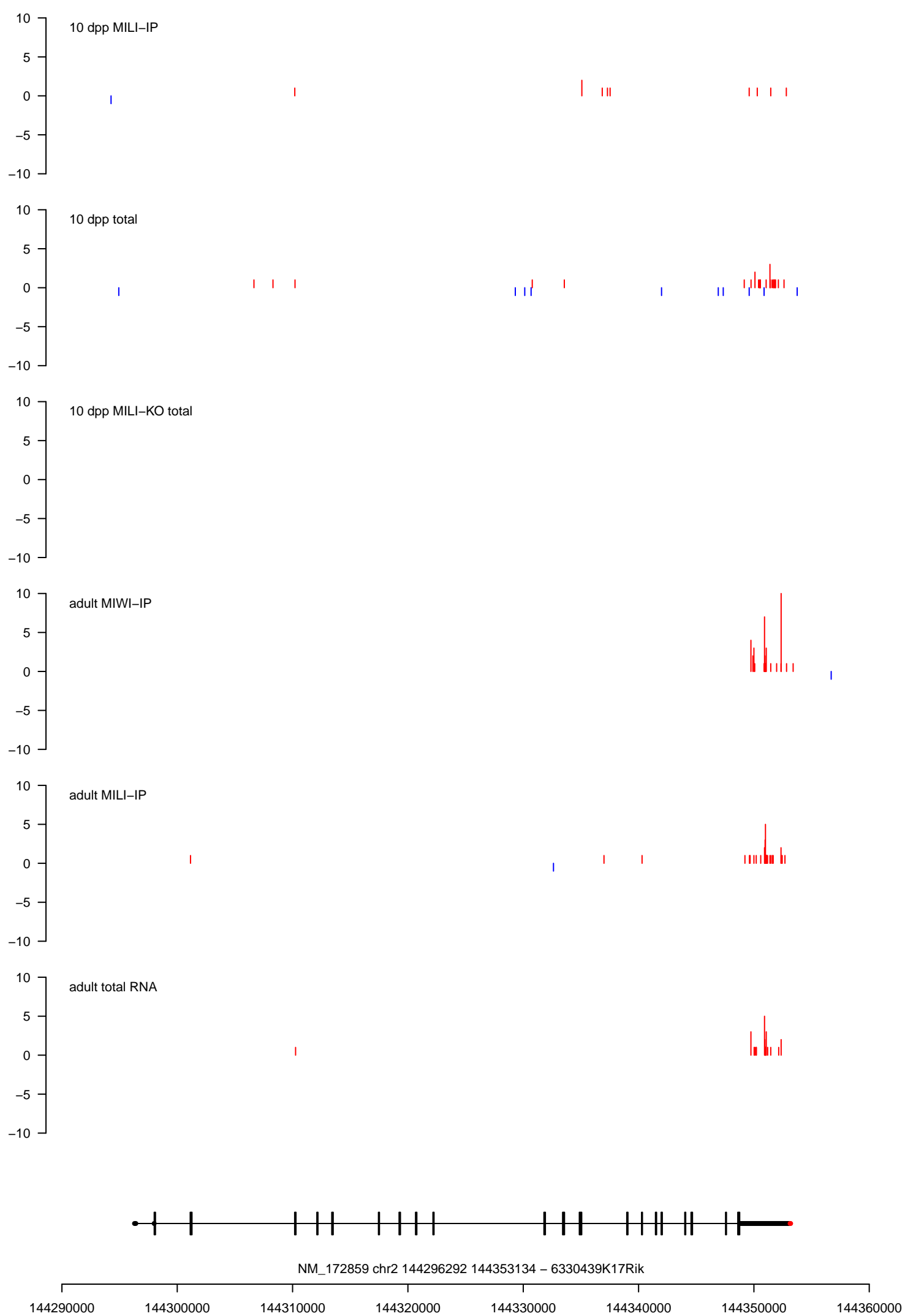


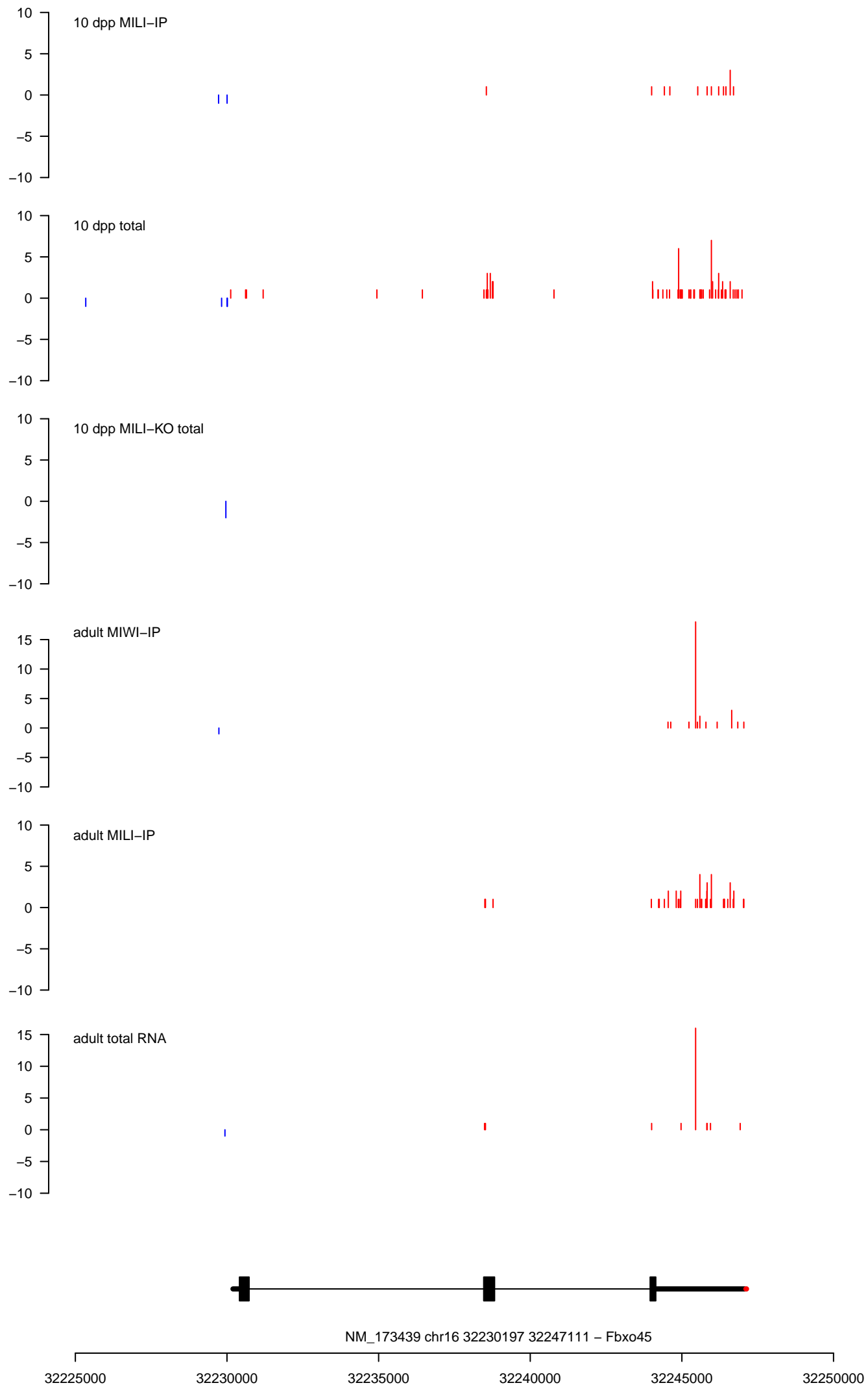




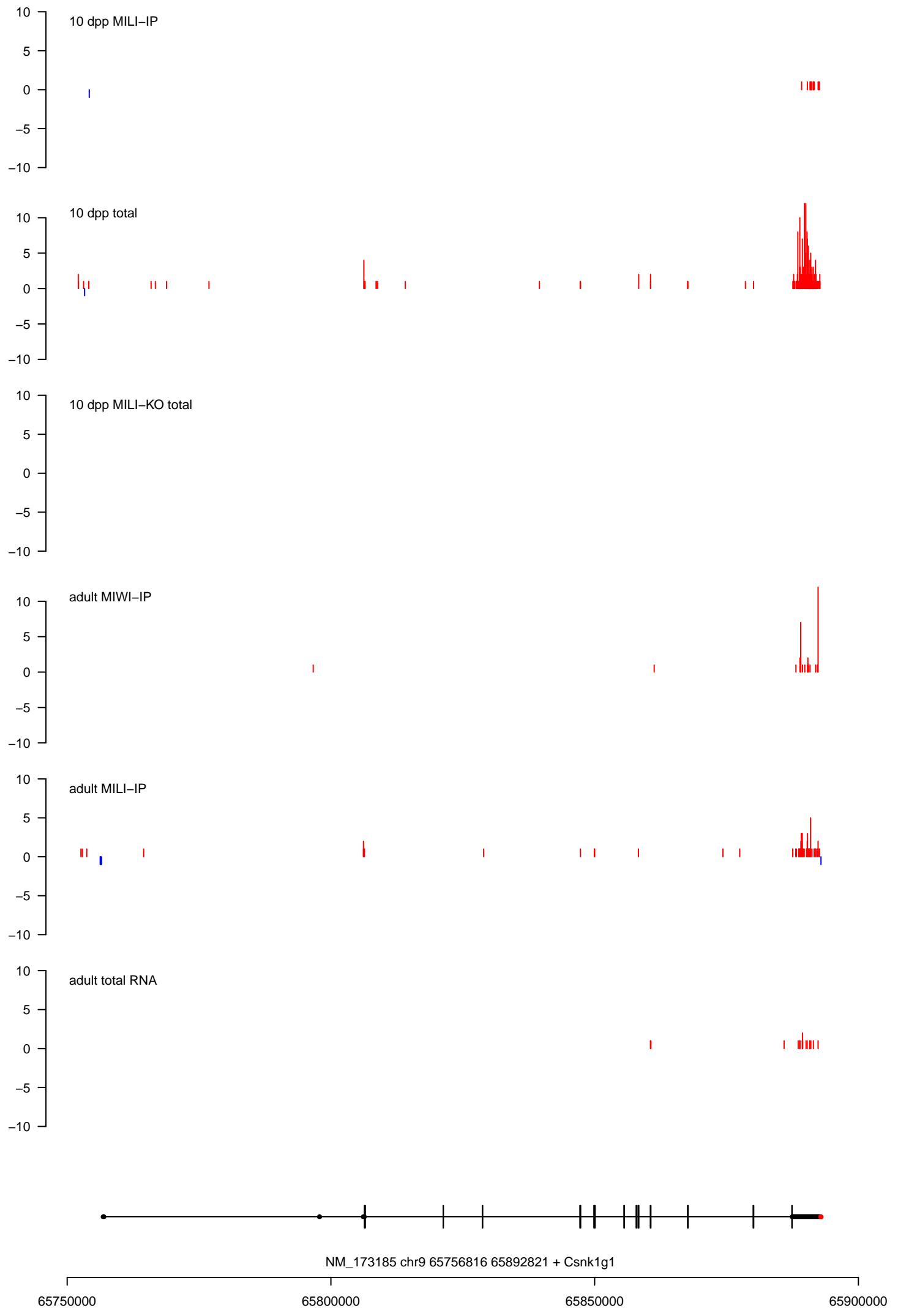


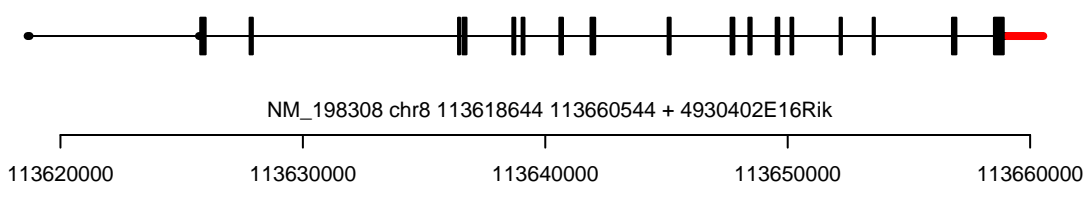
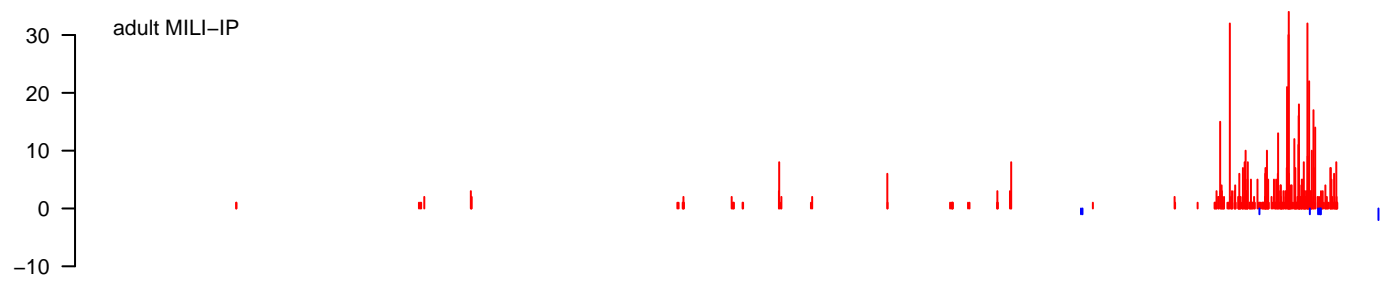
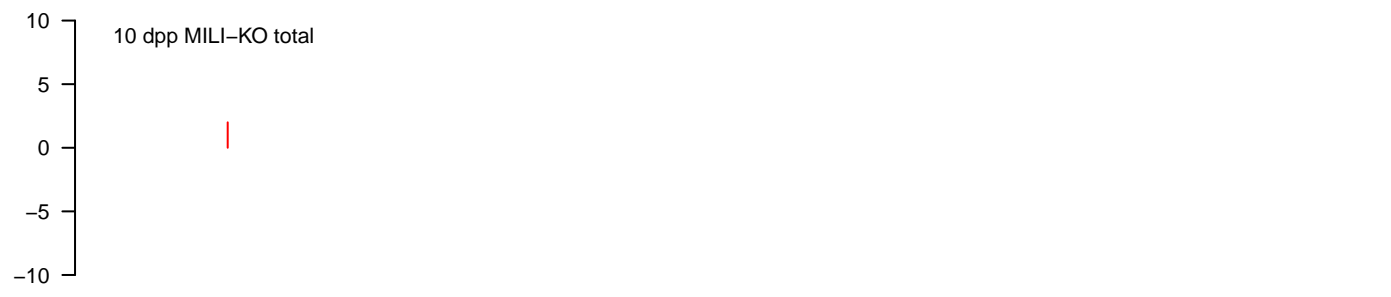
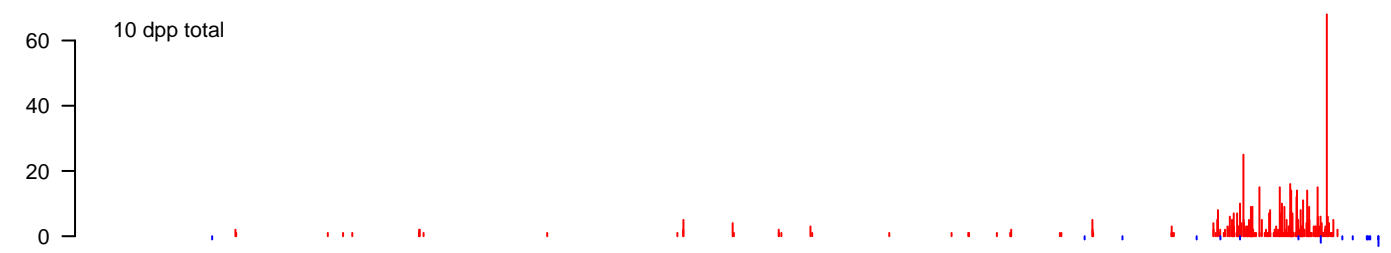


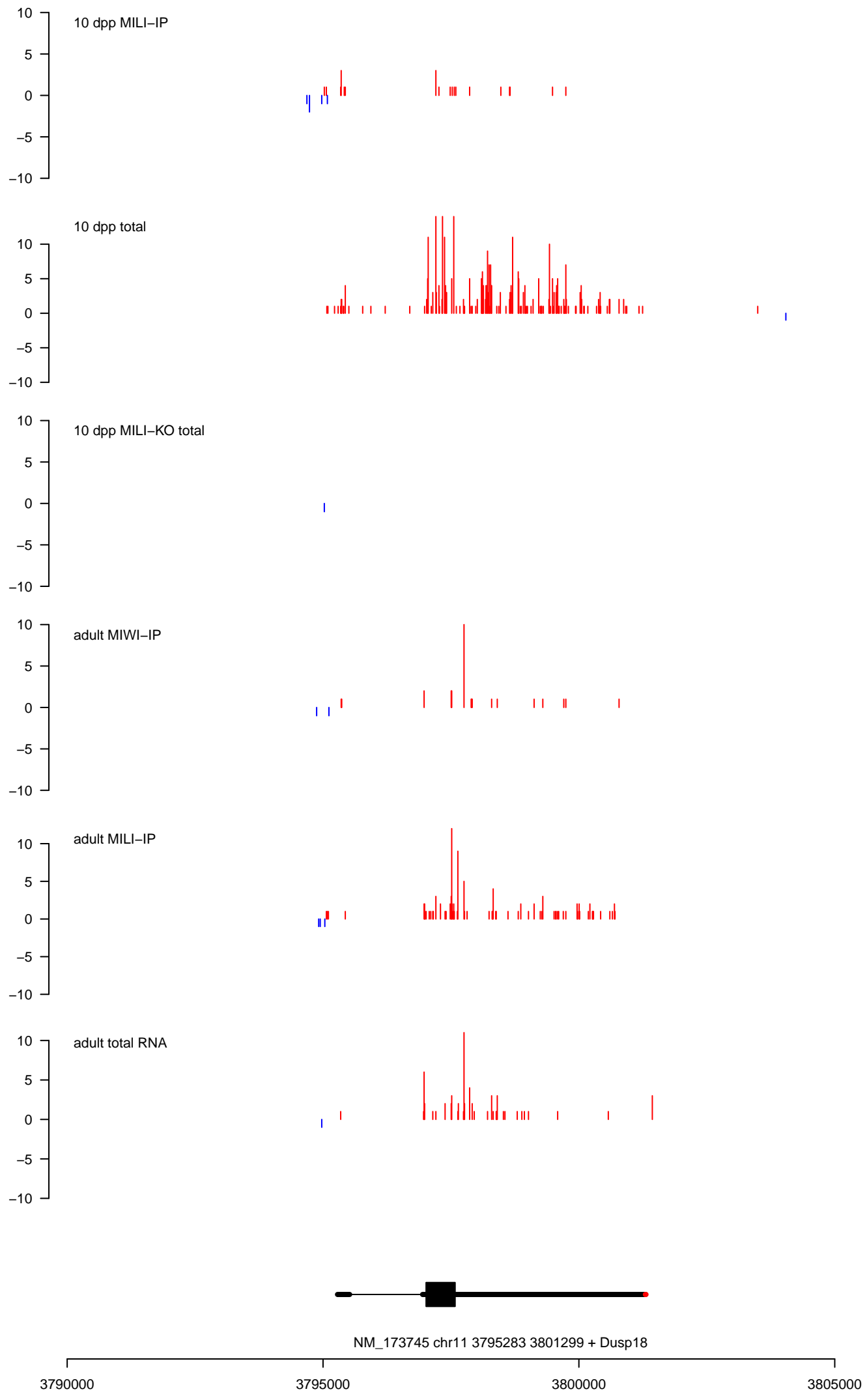


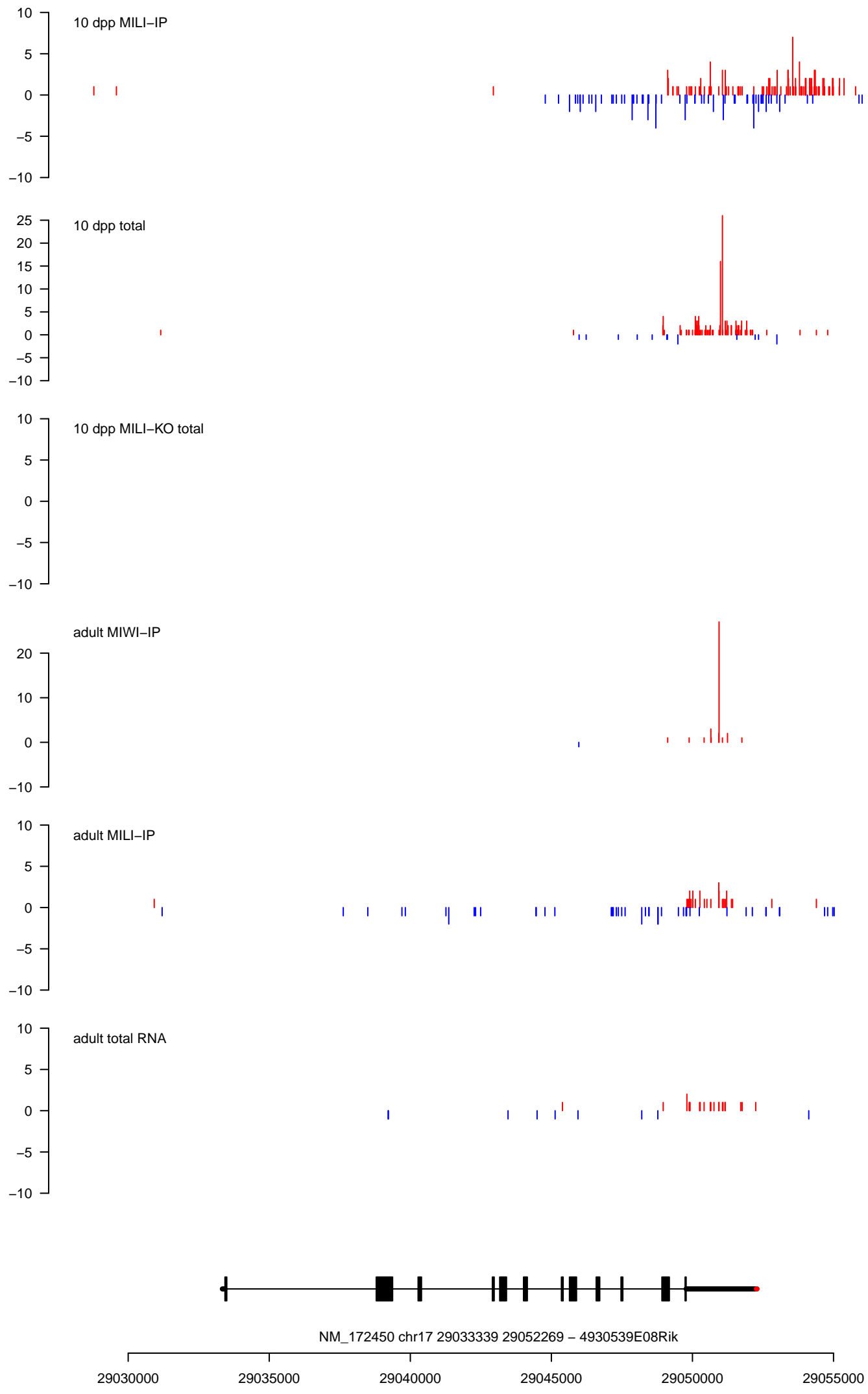


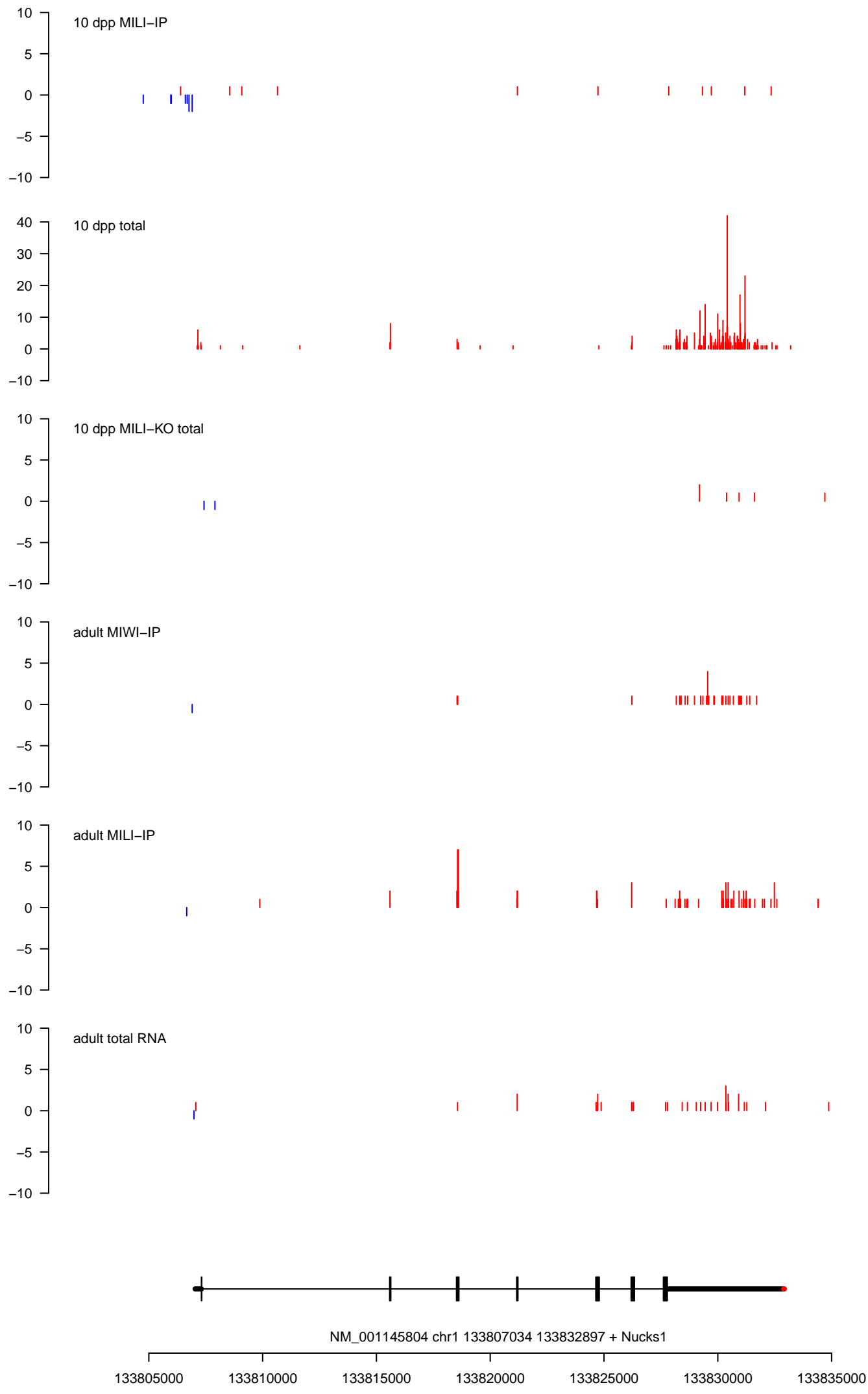


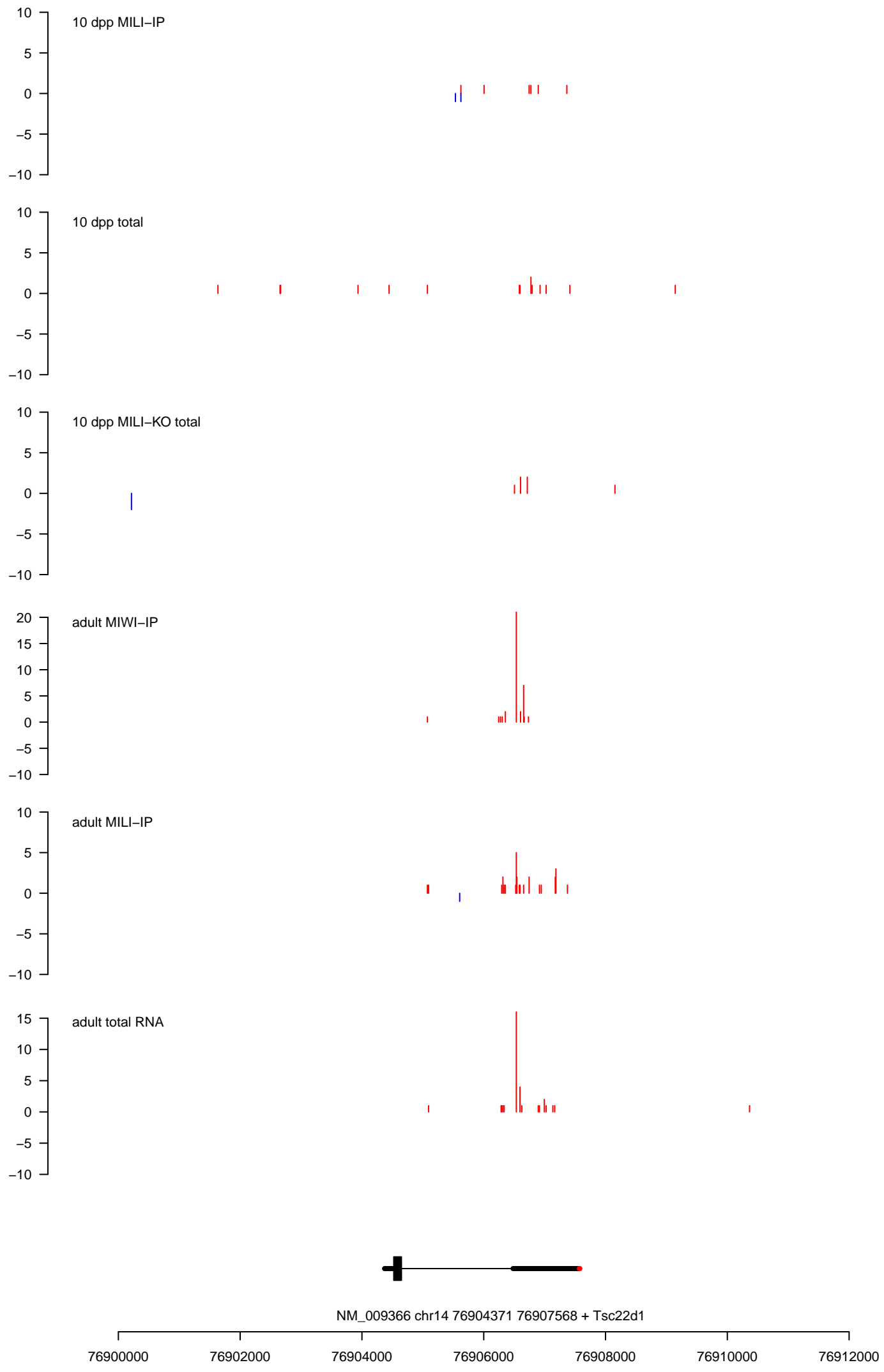


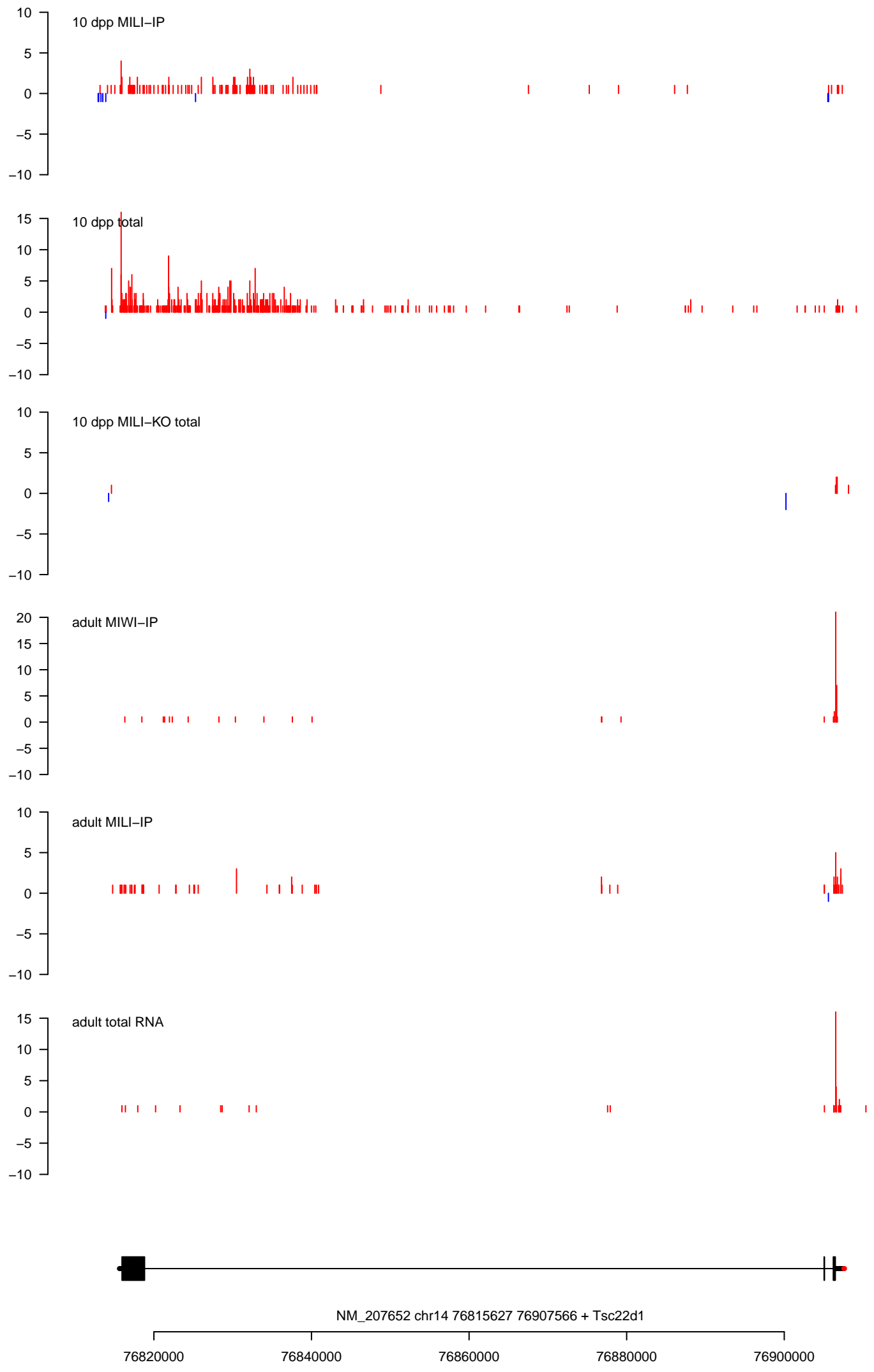


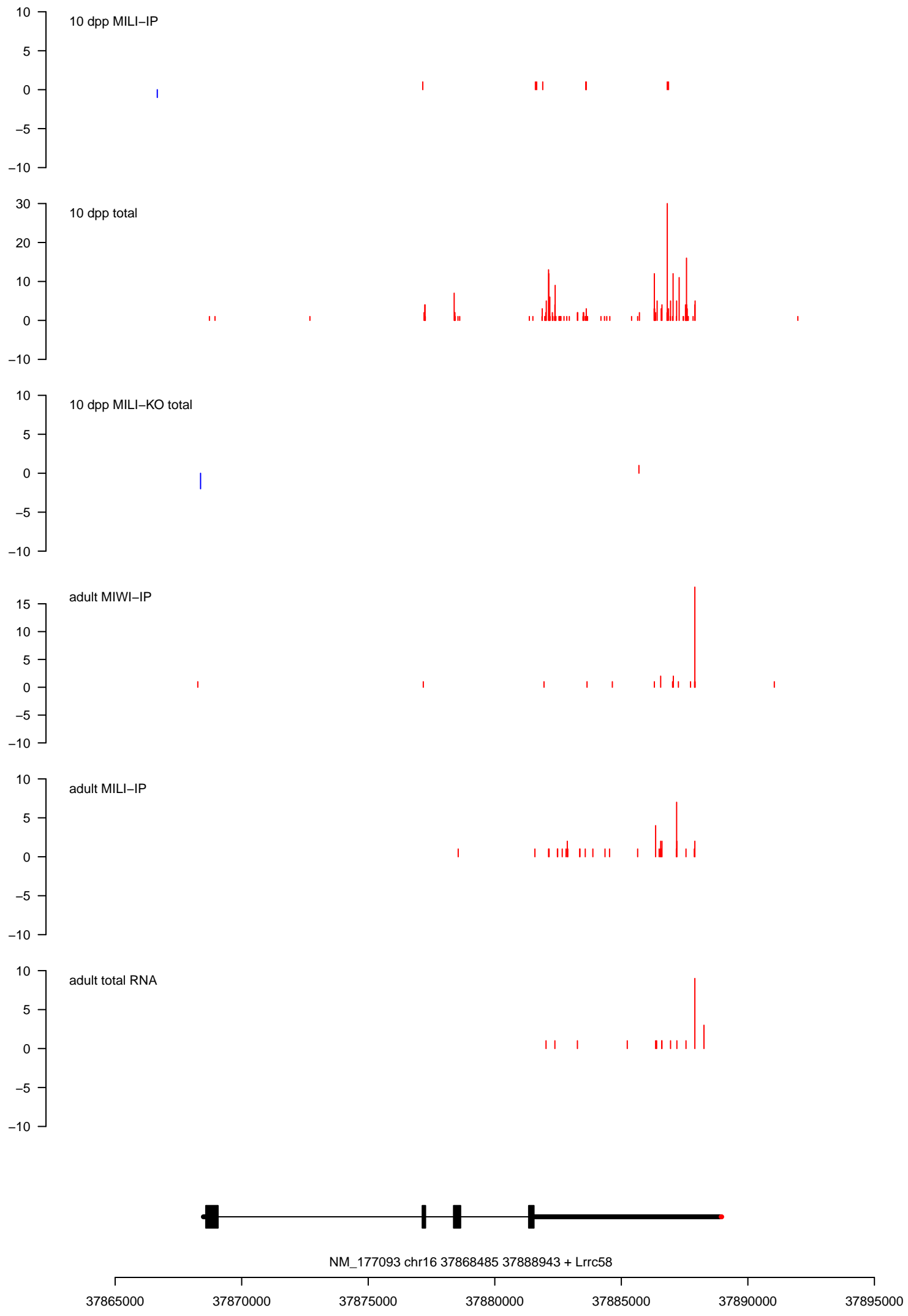




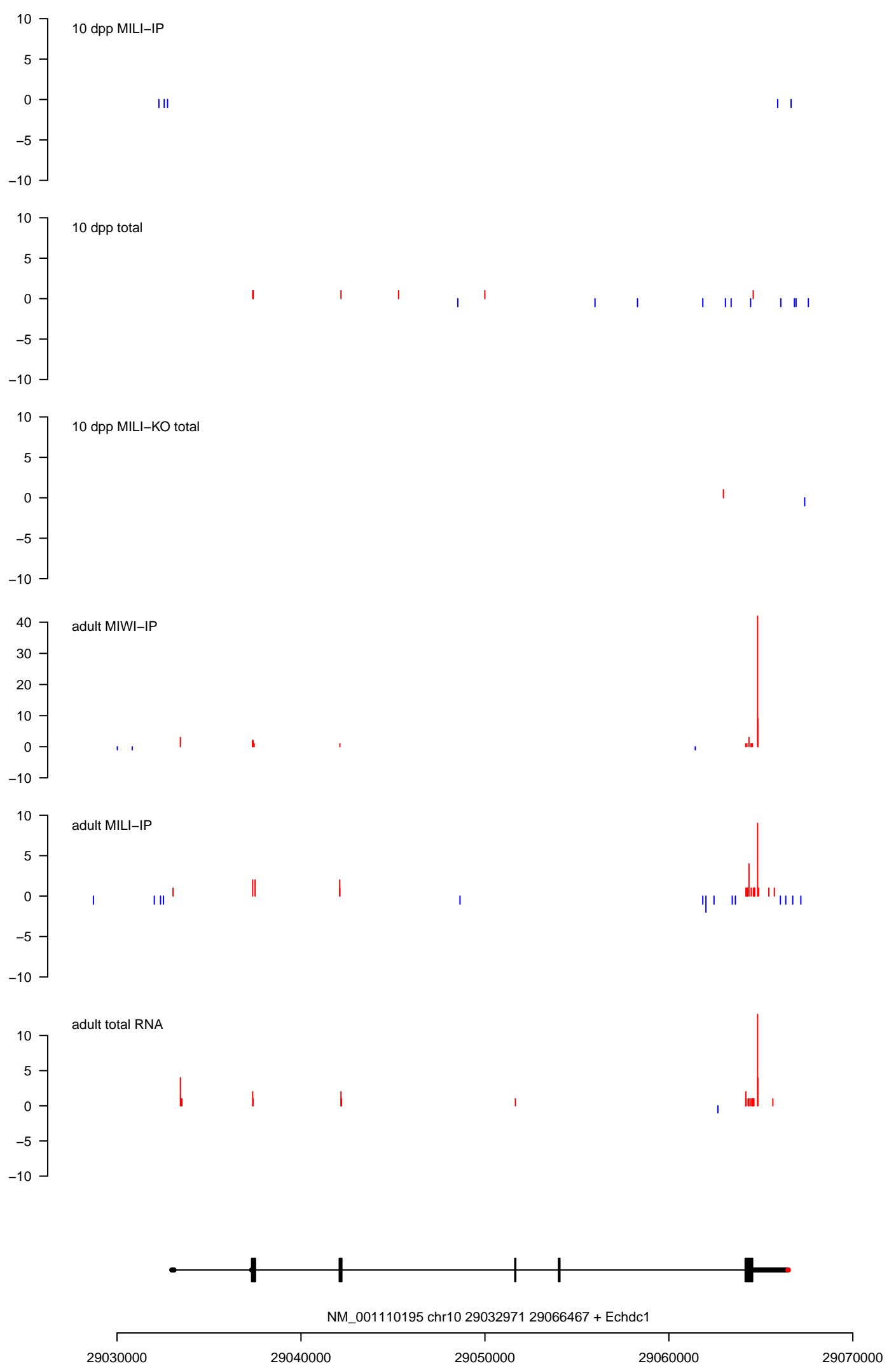


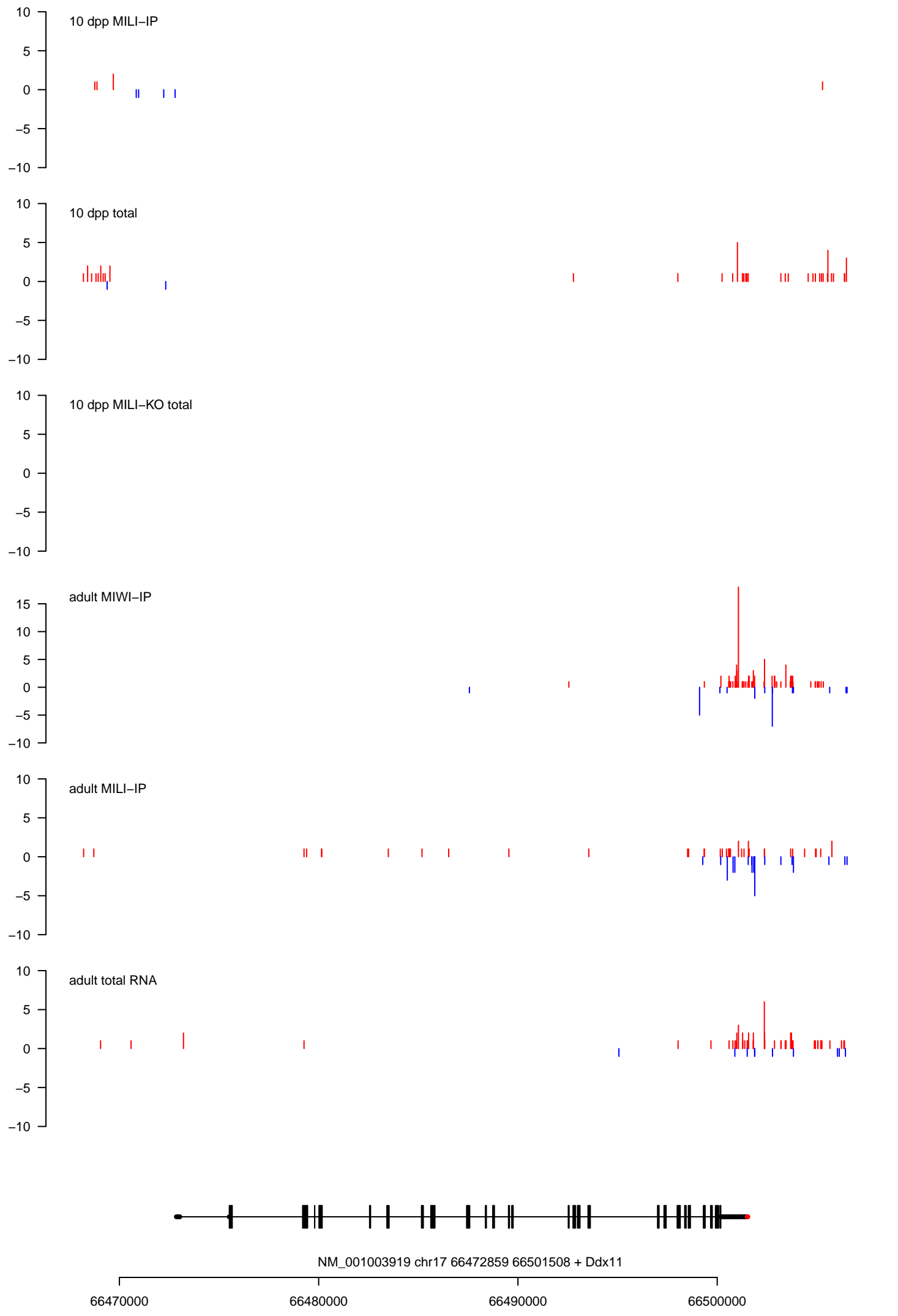


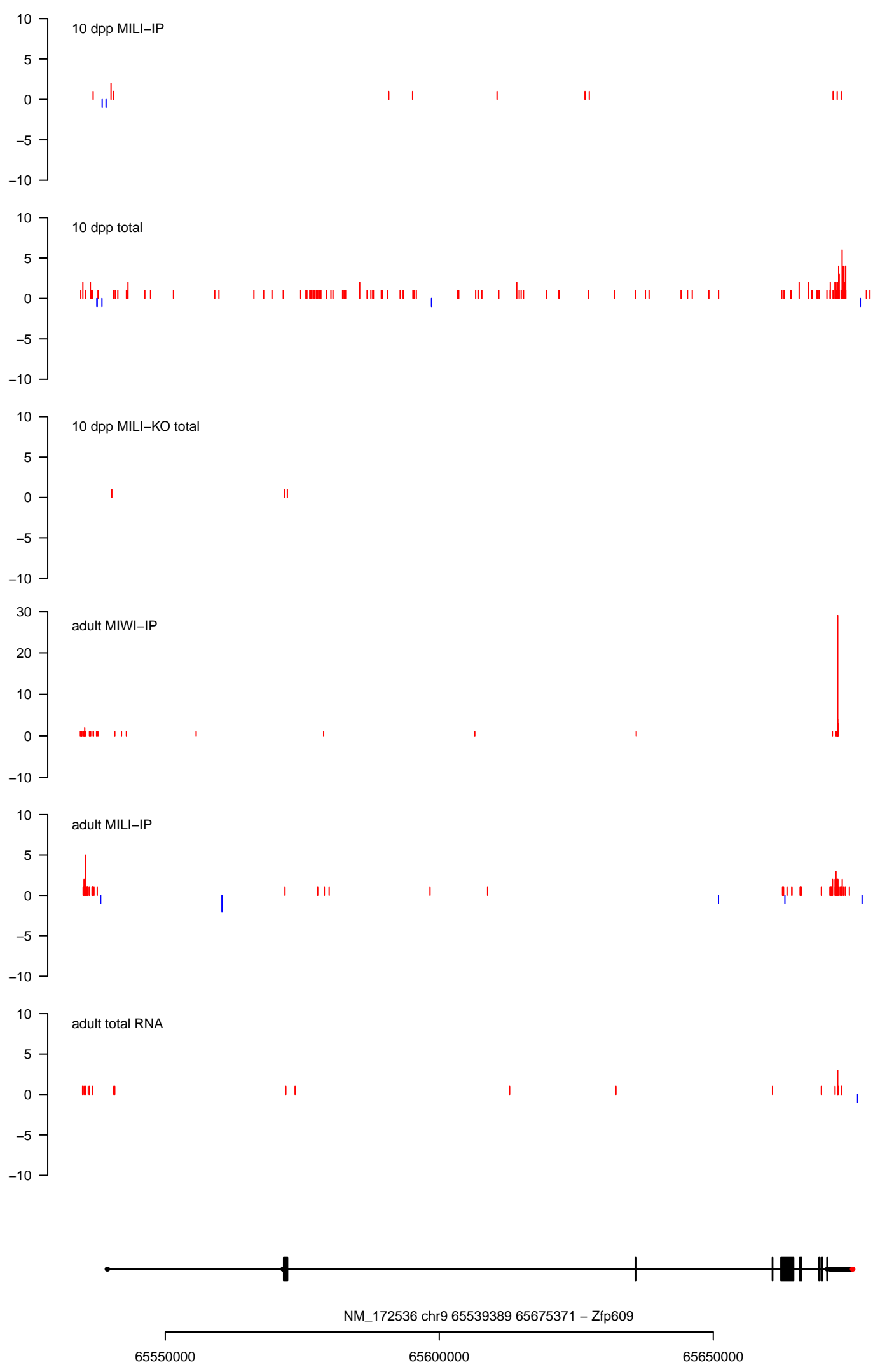


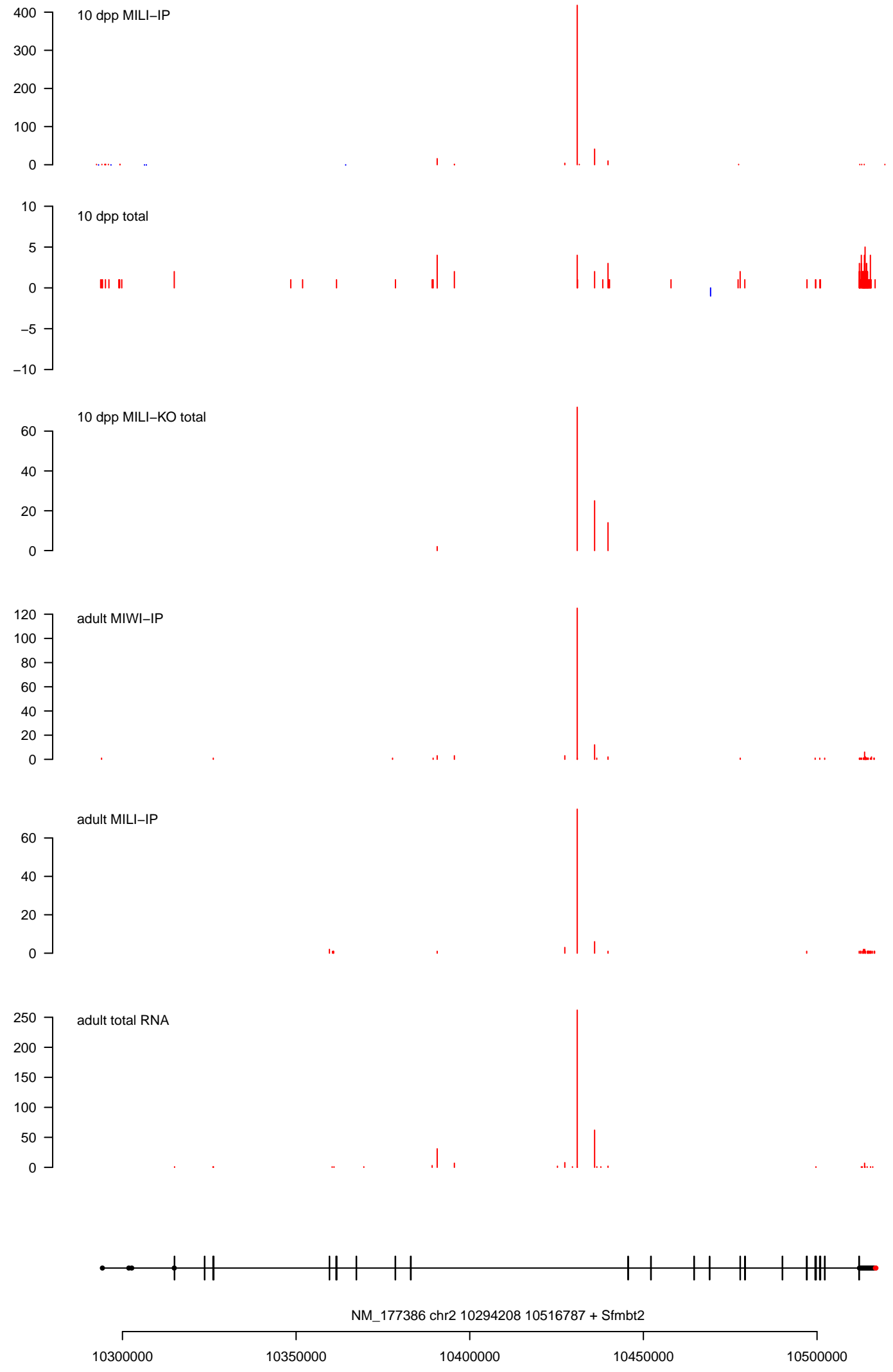


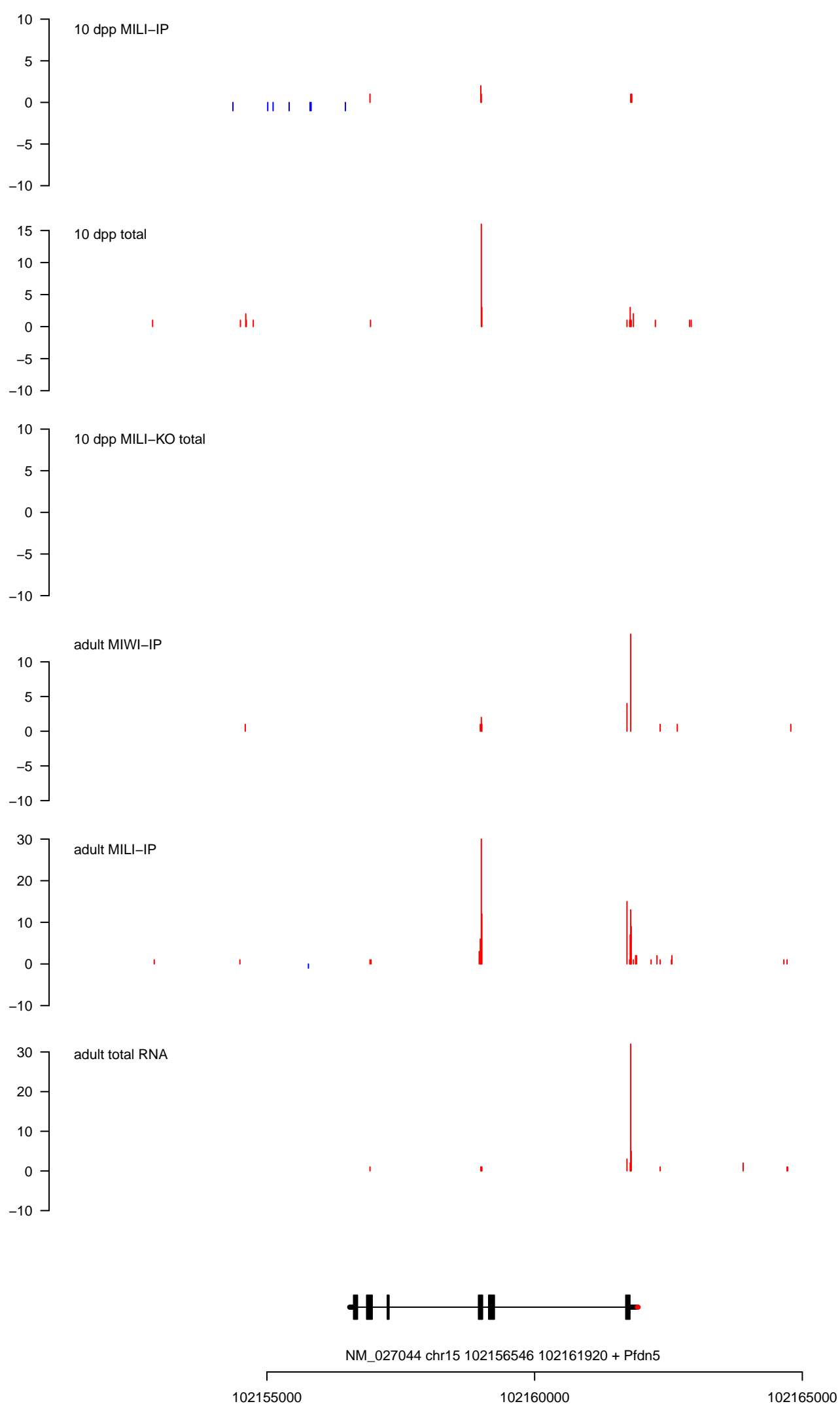


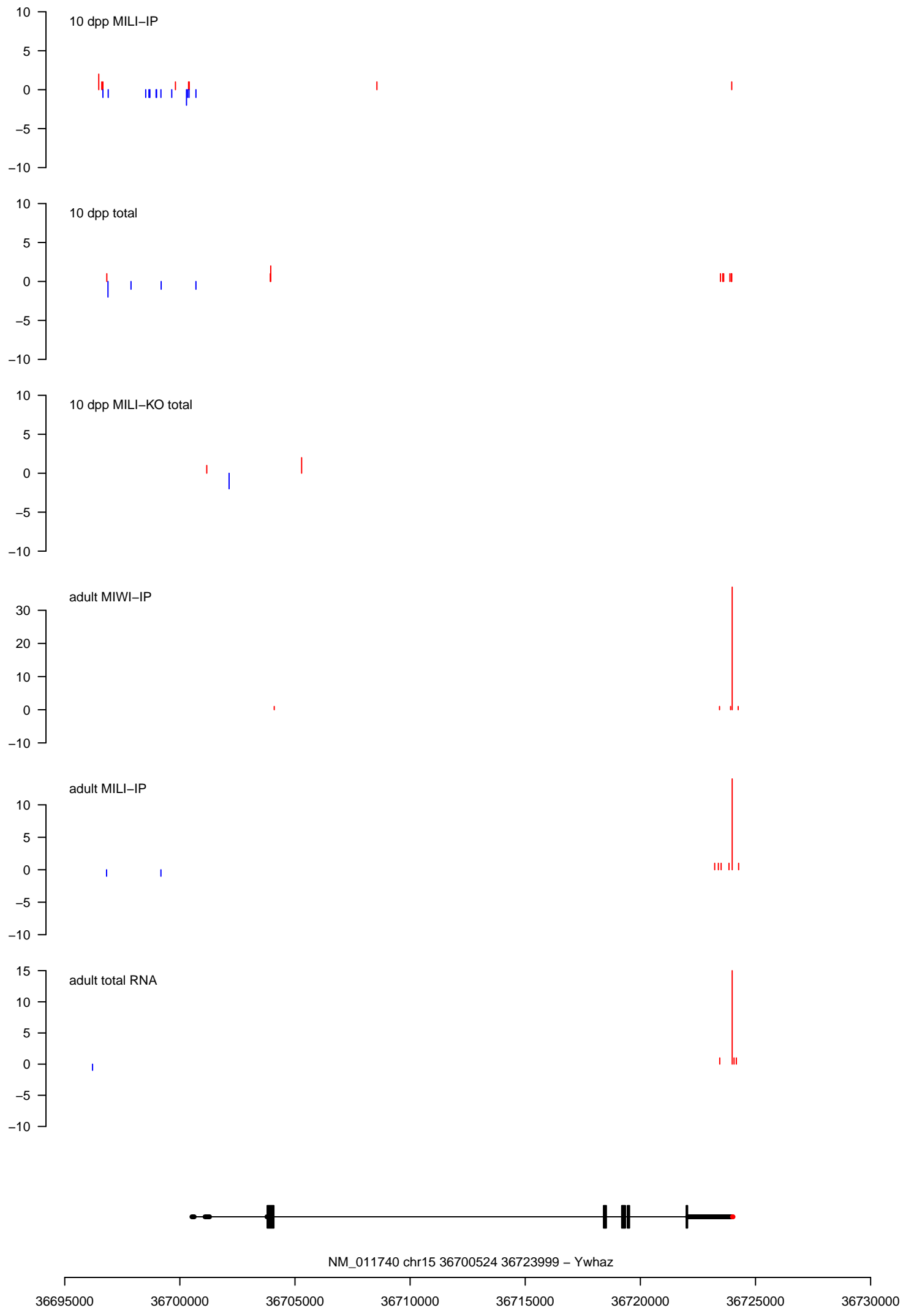


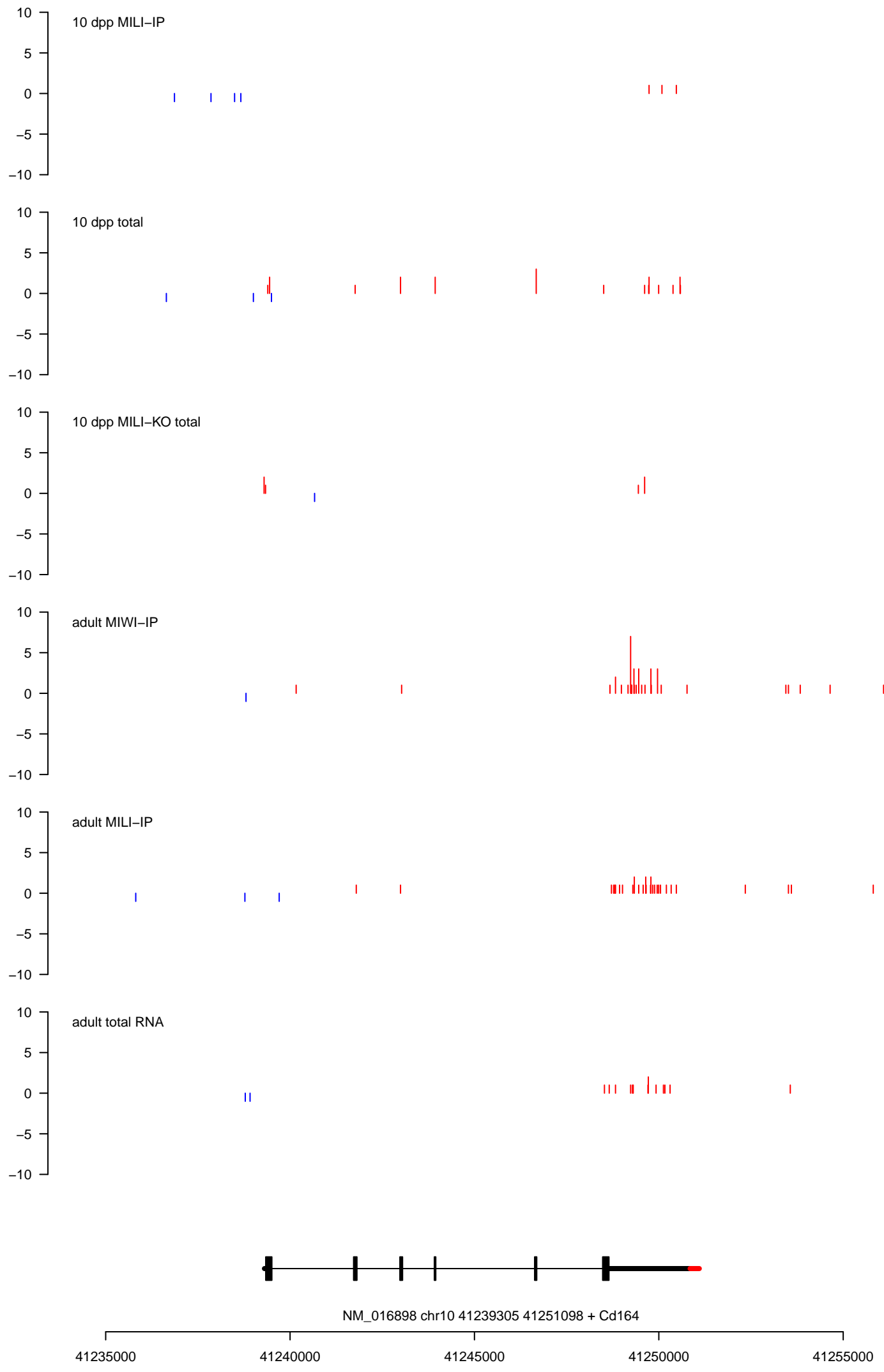


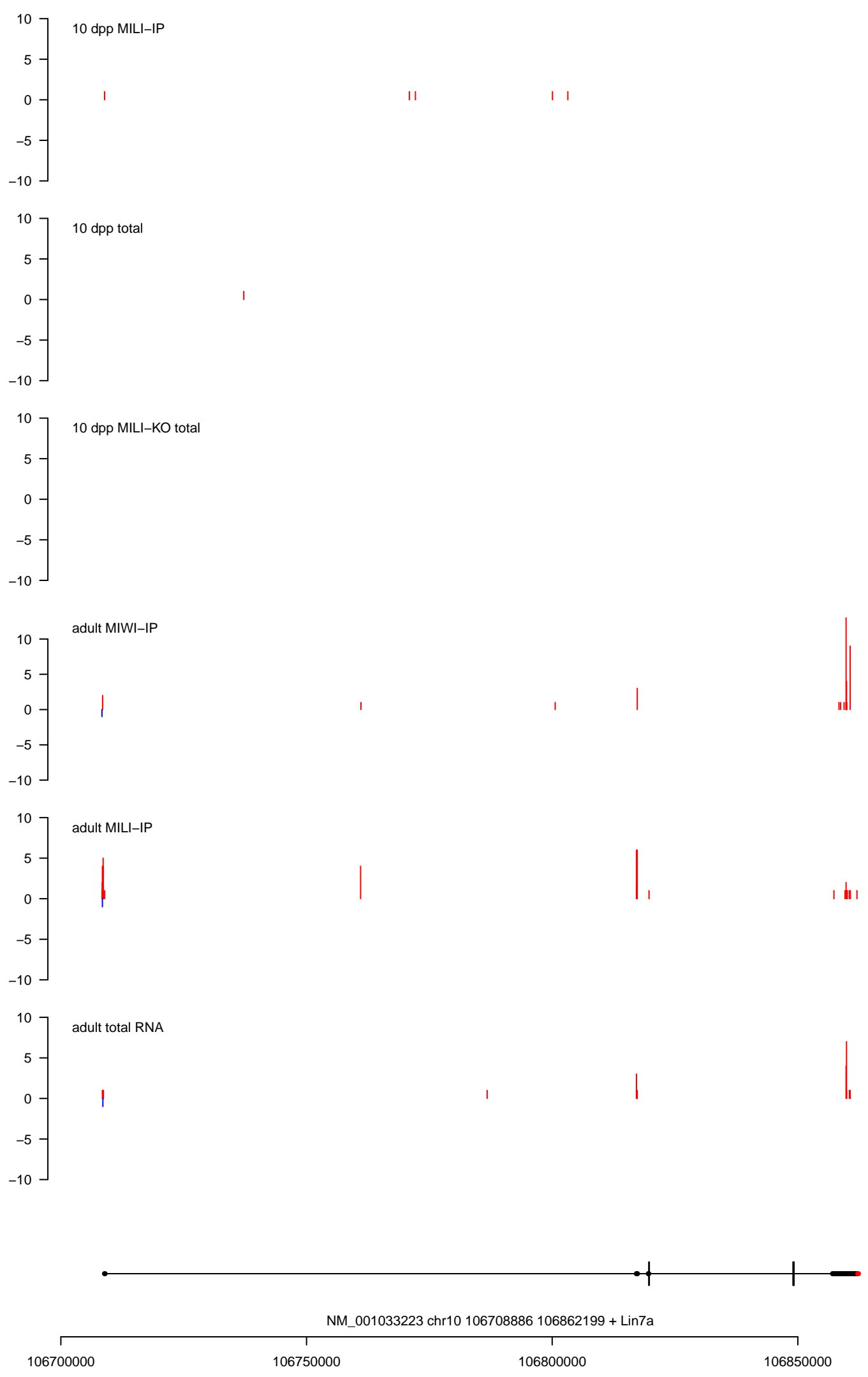






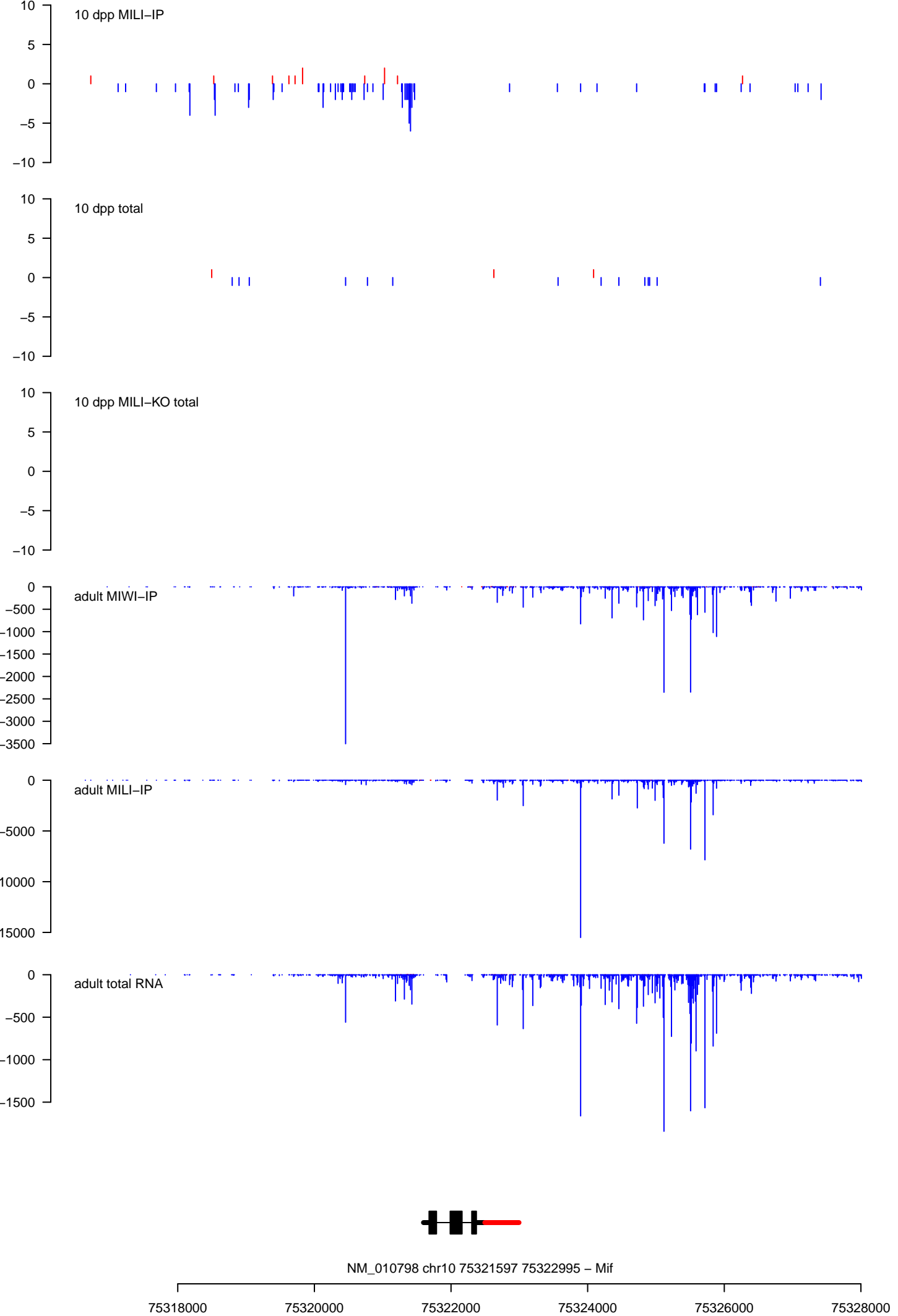






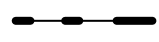
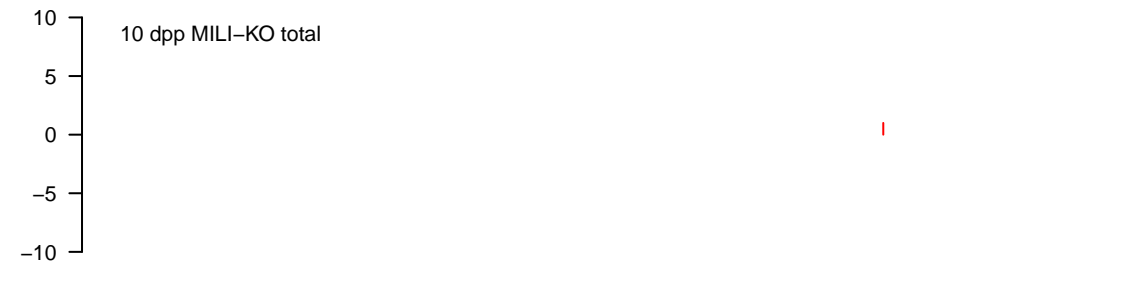
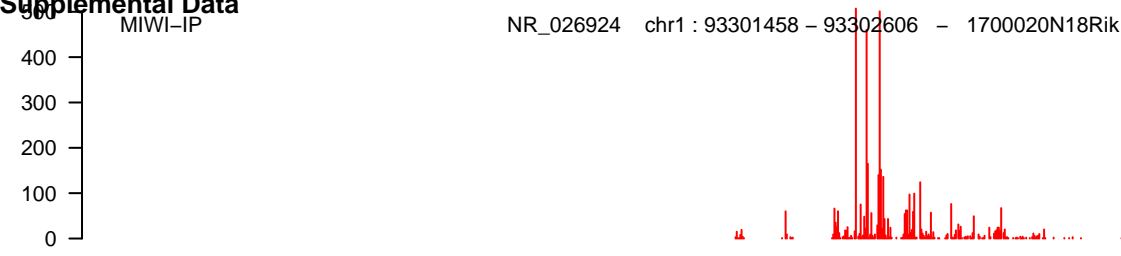




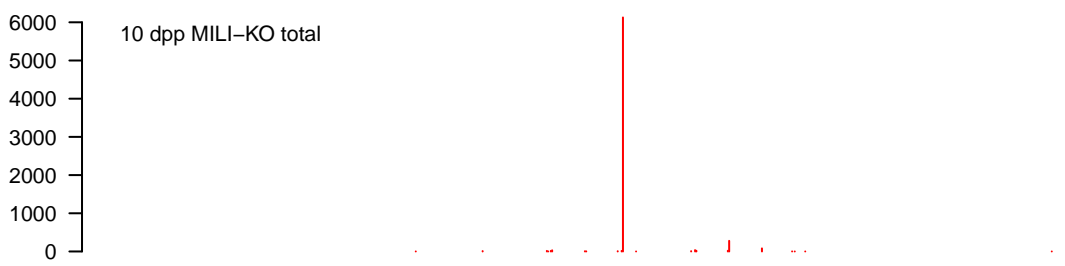
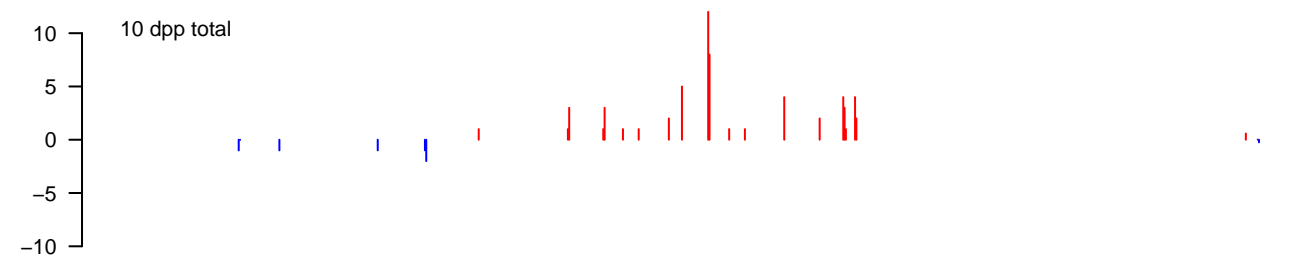
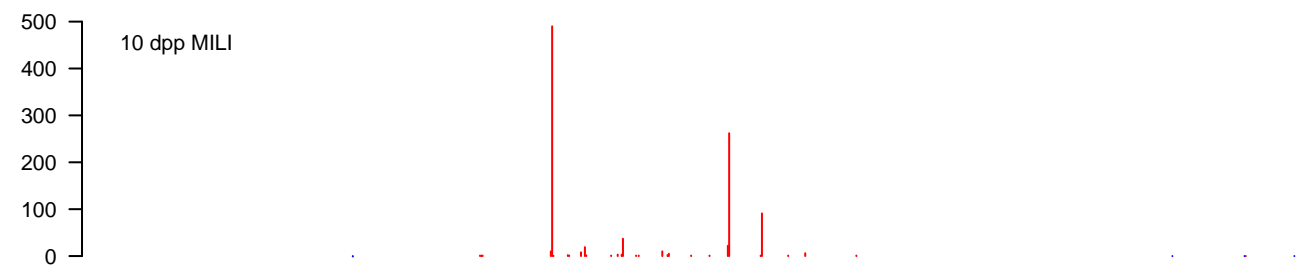
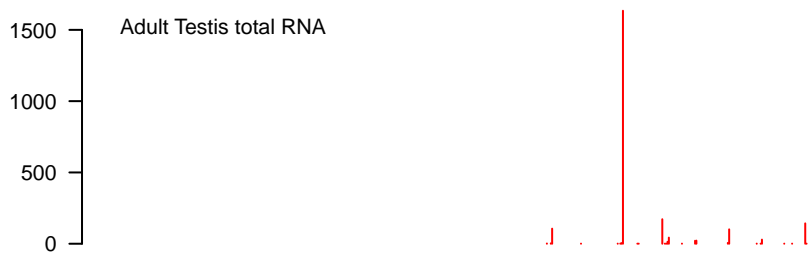
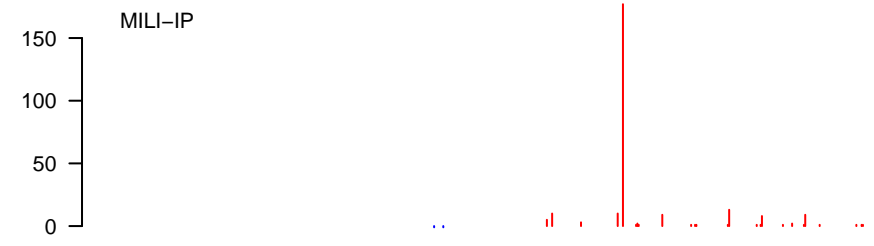
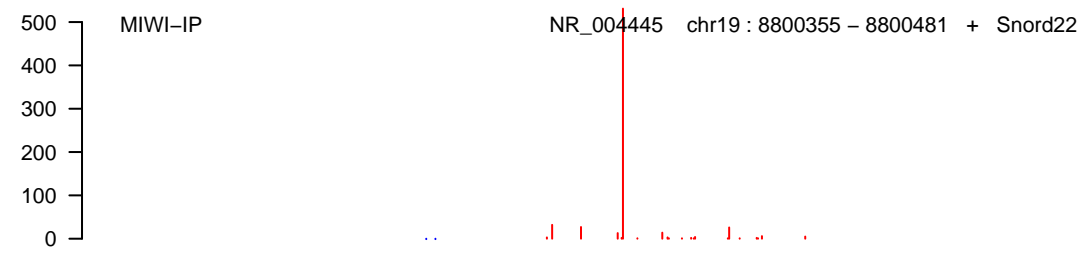


# Supplemental Data

NR\_026924 chr1 : 93301458 – 93302606 – 1700020N18Rik

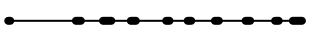
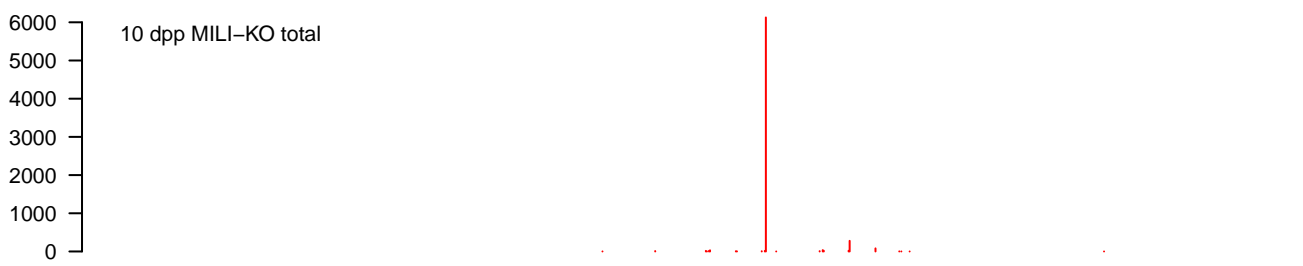
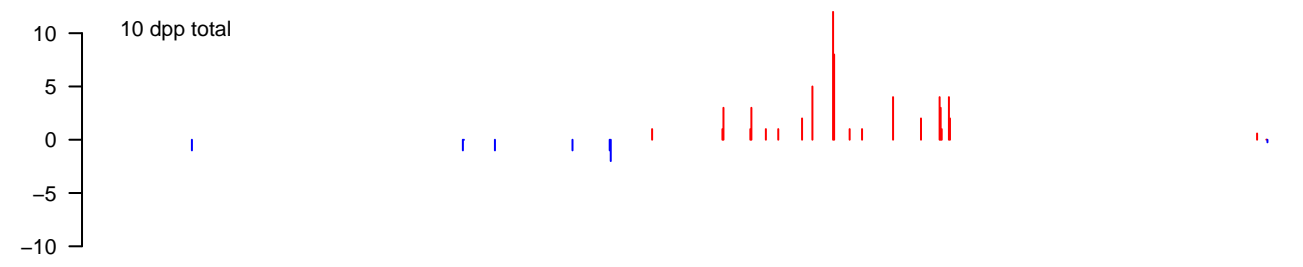
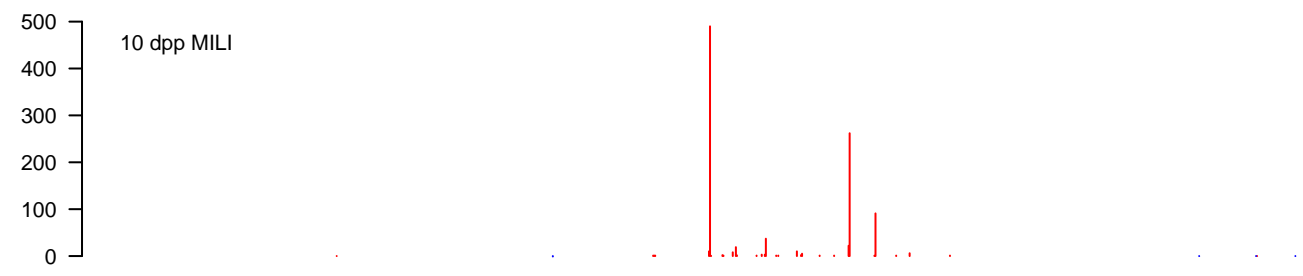
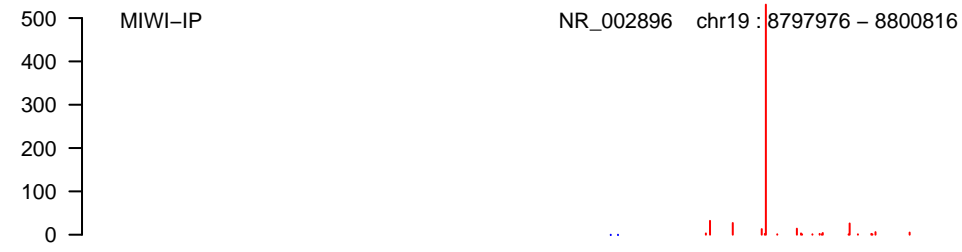


NR\_026924 chr1 93301458 93302606 – 1700020N18Rik



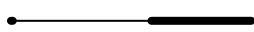
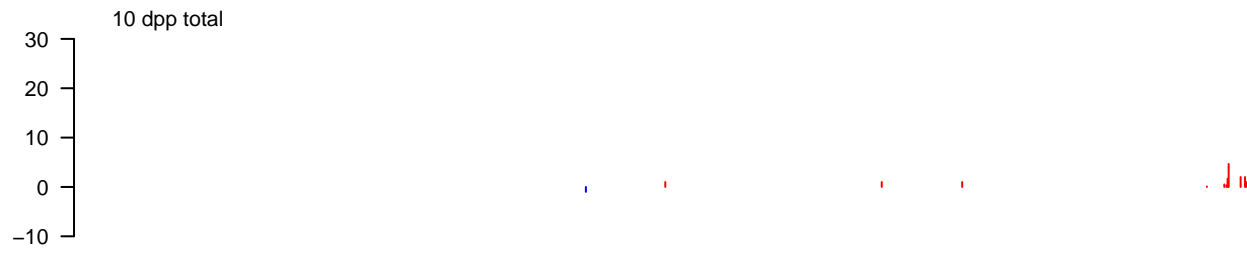
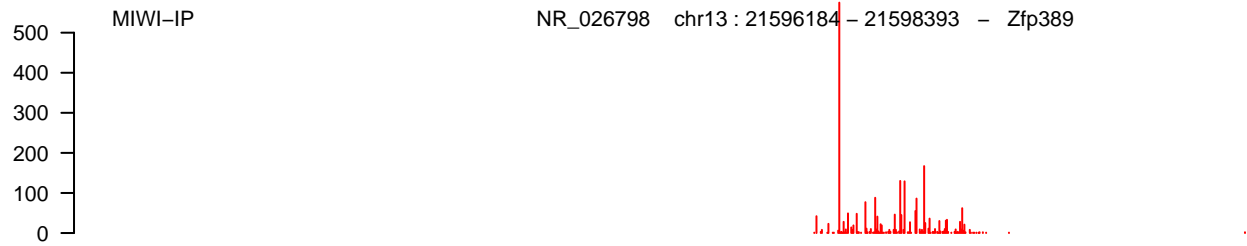
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NR\_002896 chr19:8797976 - 8800816 + Snhg1



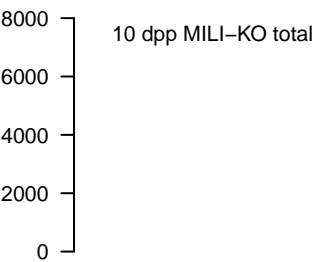
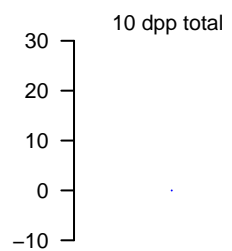
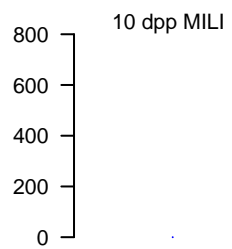
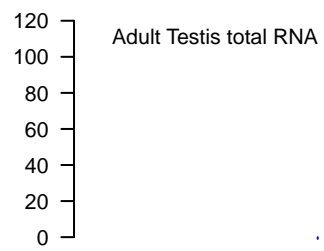
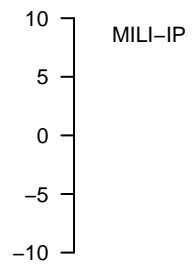
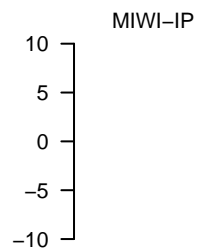
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NR\_026798 chr13:21596184 - 21598393 - Zfp389

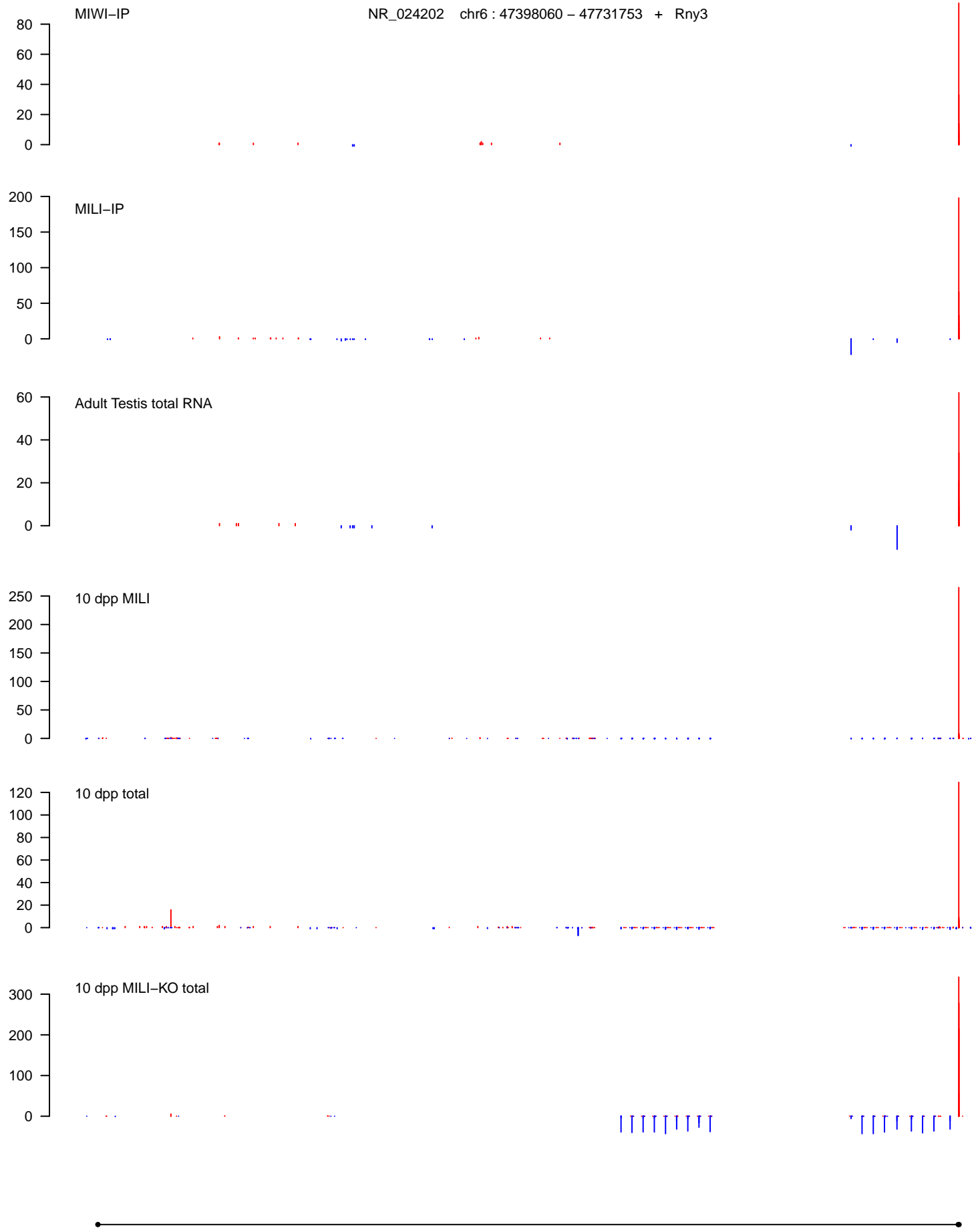


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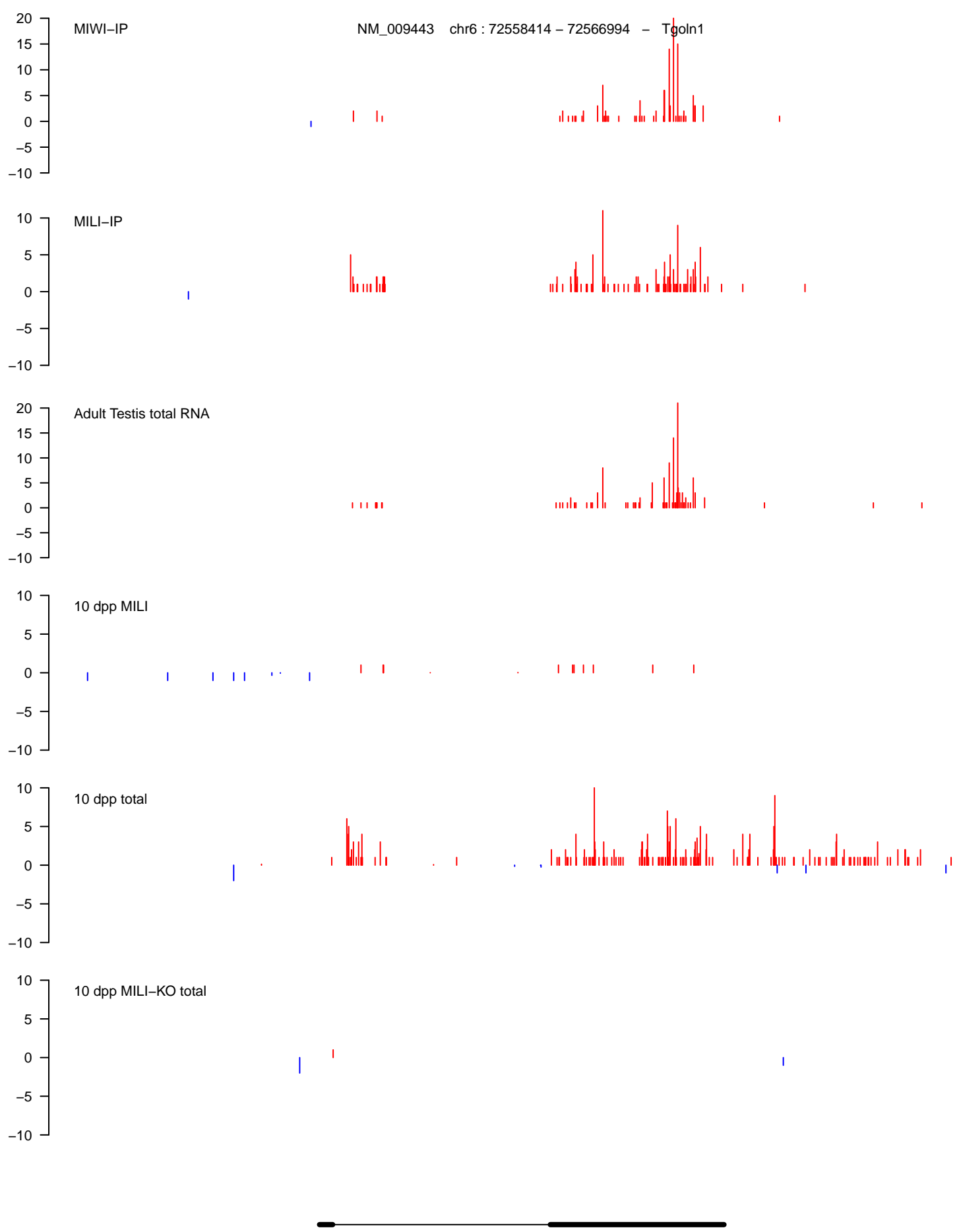
NR\_002840 chr1 : 162965296 - 162968668 + Gas5



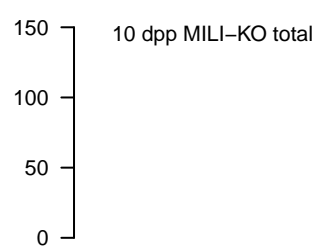
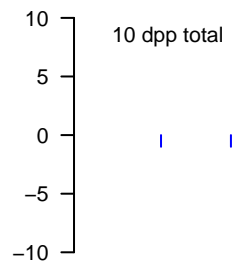
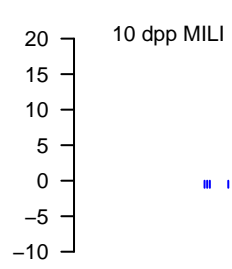
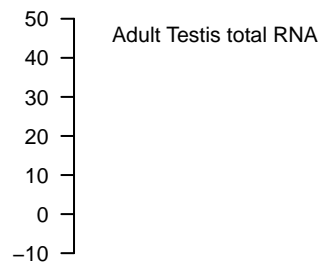
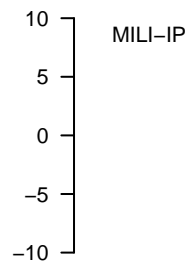
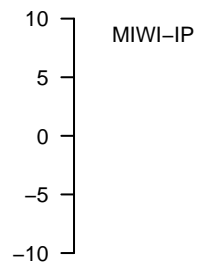
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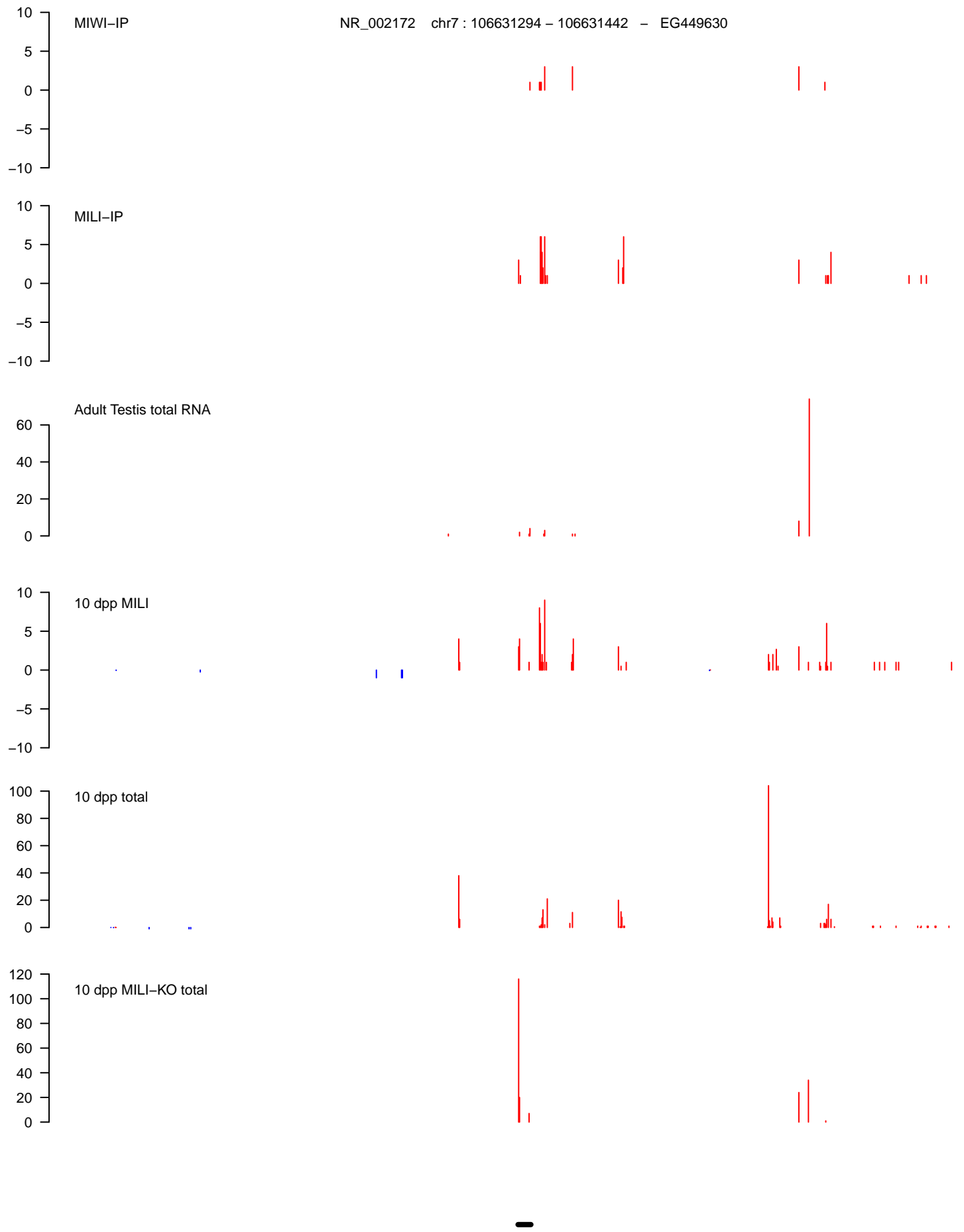




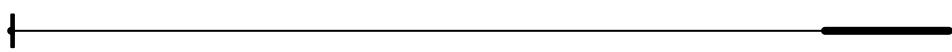
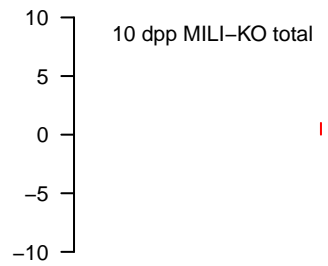
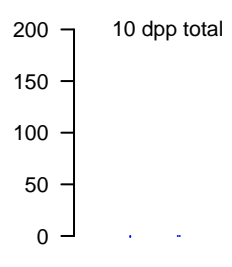
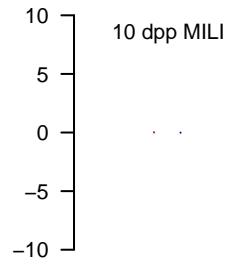
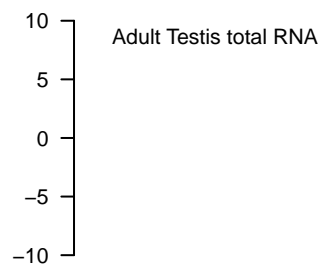
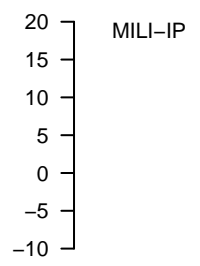
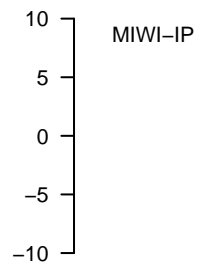


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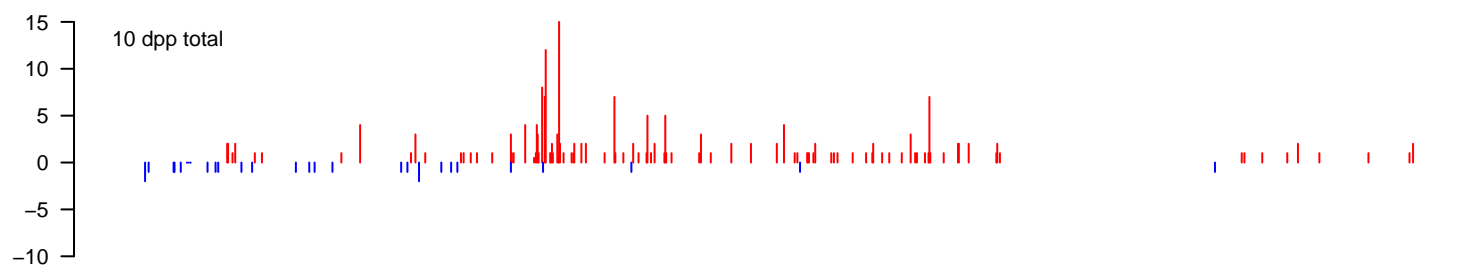
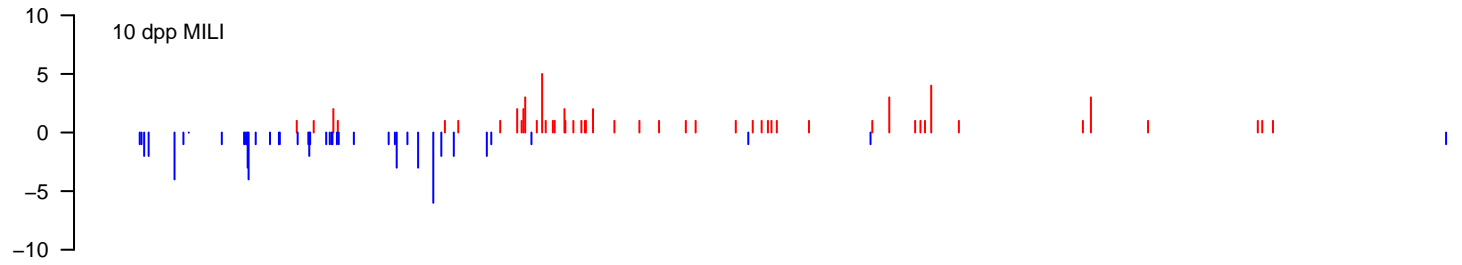
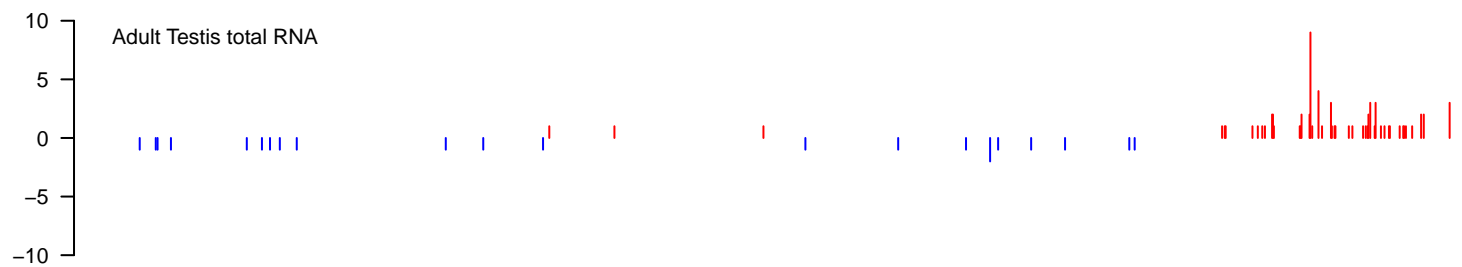
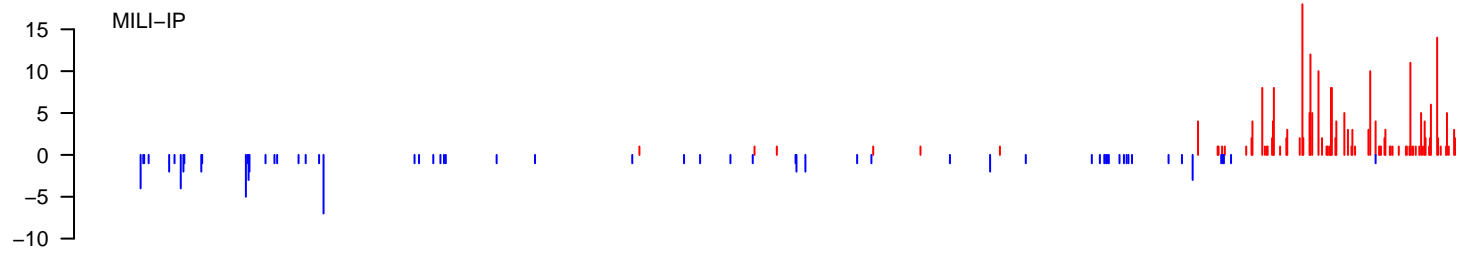
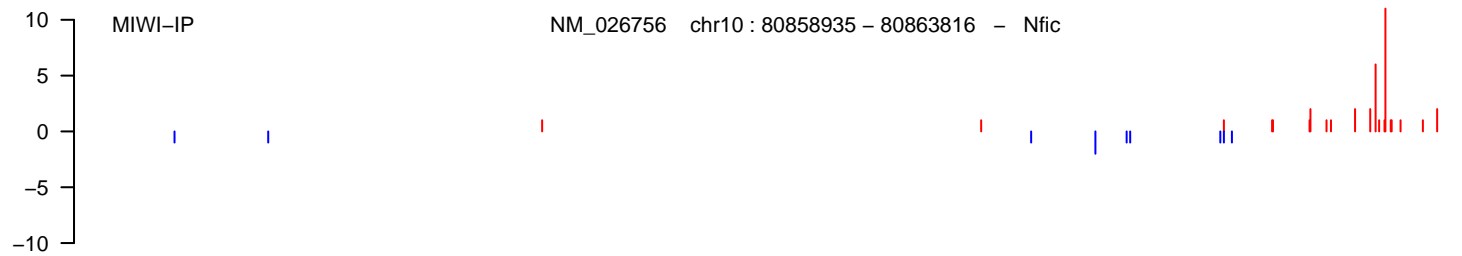


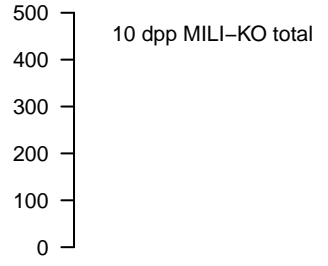
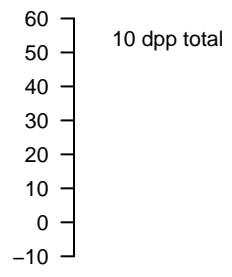
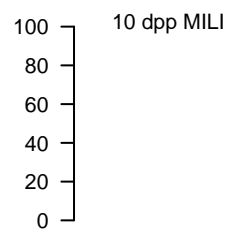
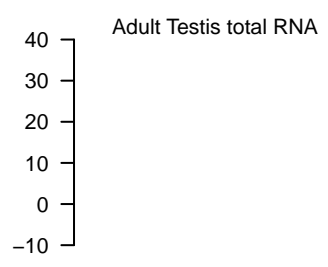
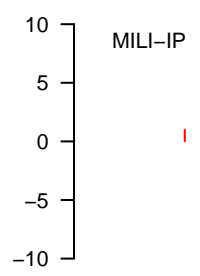
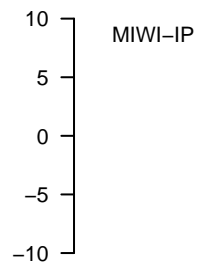


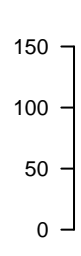
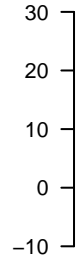
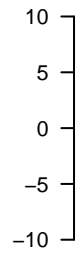
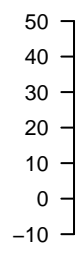
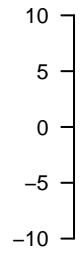
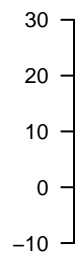
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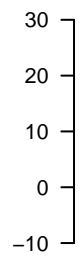
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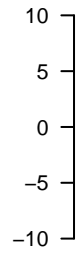




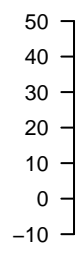
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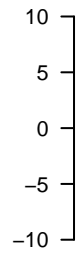
MIWI-IP



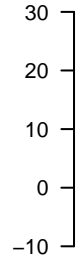
MILI-IP



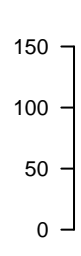
Adult Testis total RNA



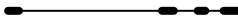
10 dpp MILI



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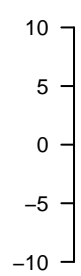
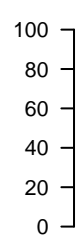
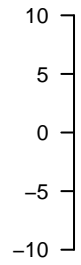
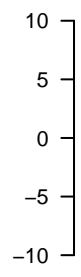
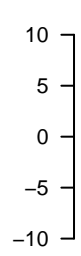
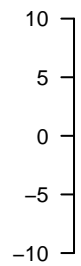


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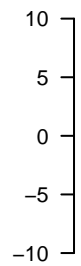


NR\_024067 chr1 9932105 9934199 - Snhg6

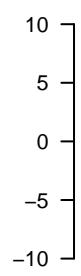




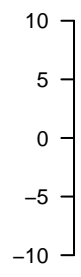




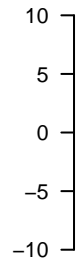
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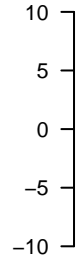
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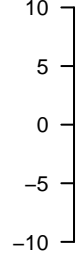
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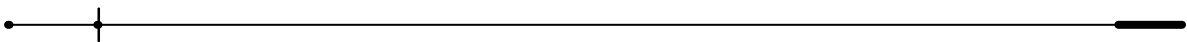
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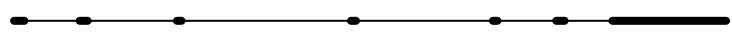
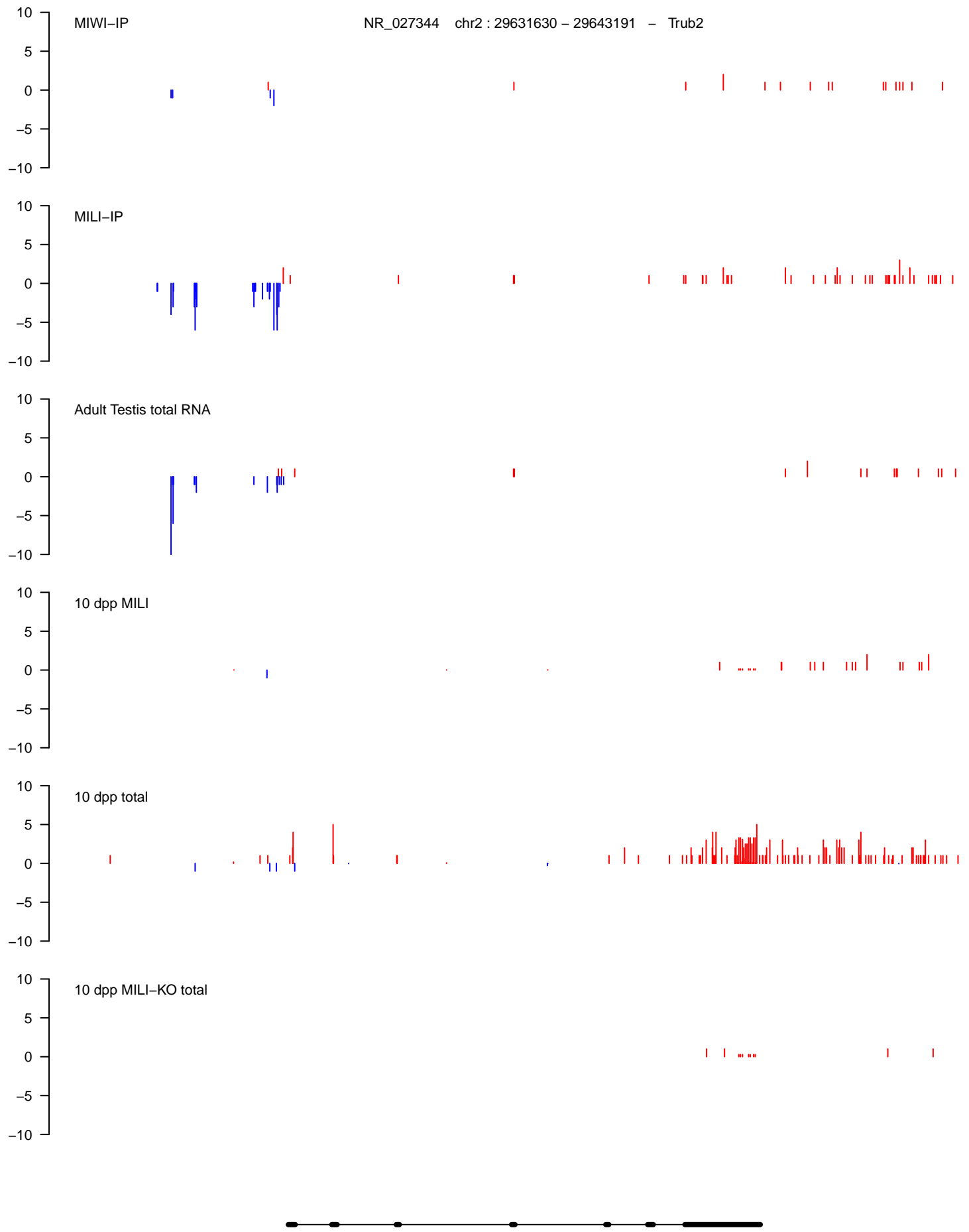


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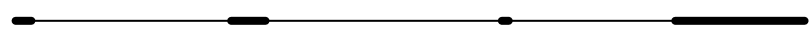
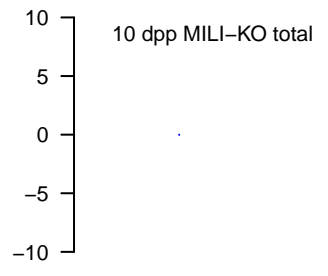
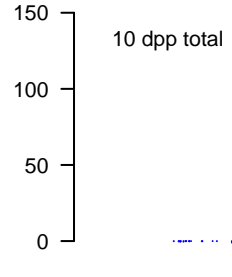
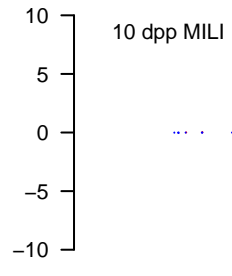
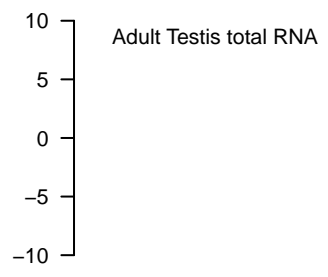
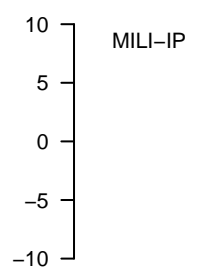
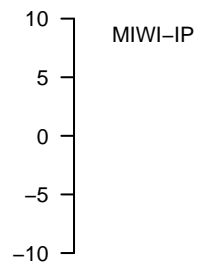


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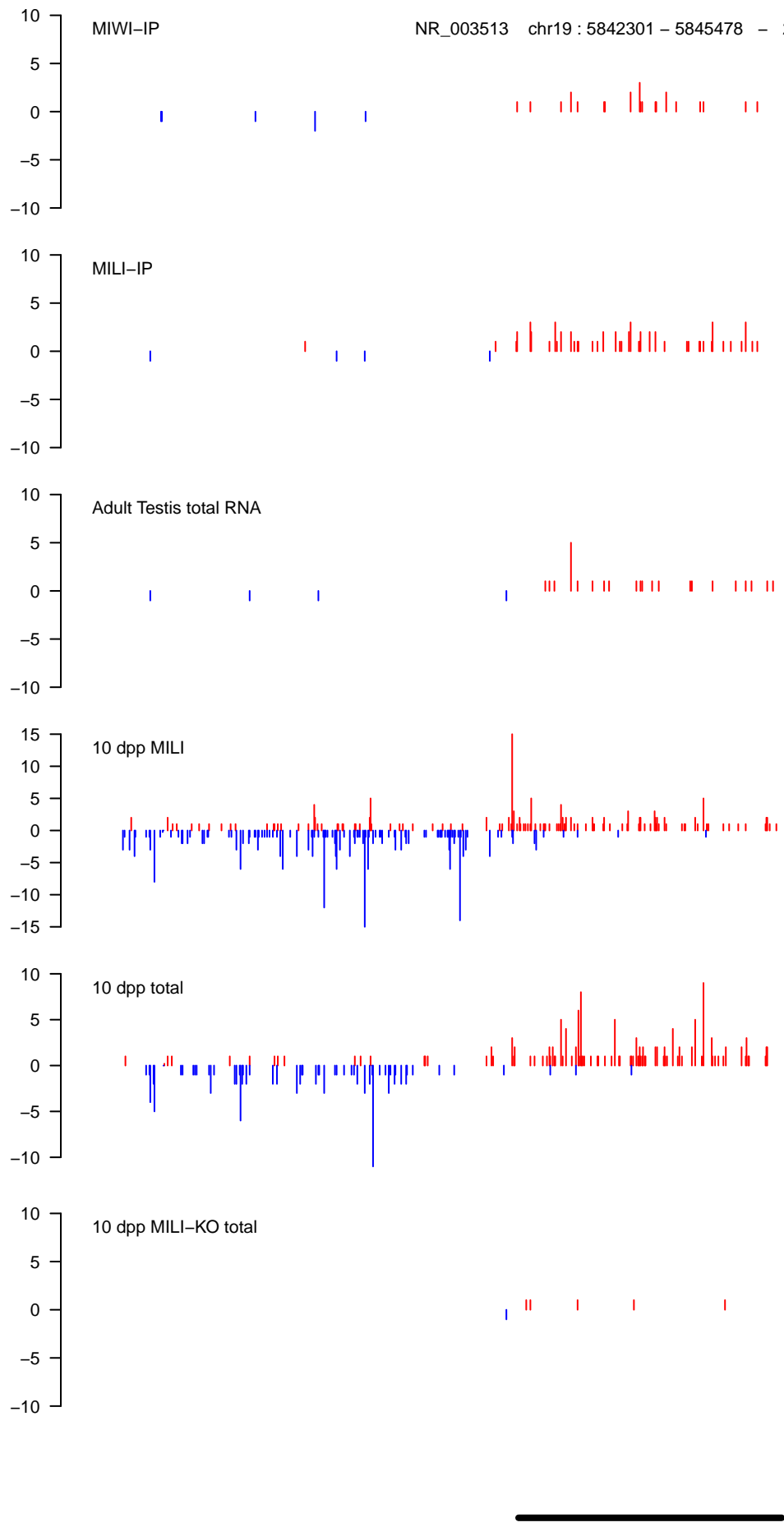


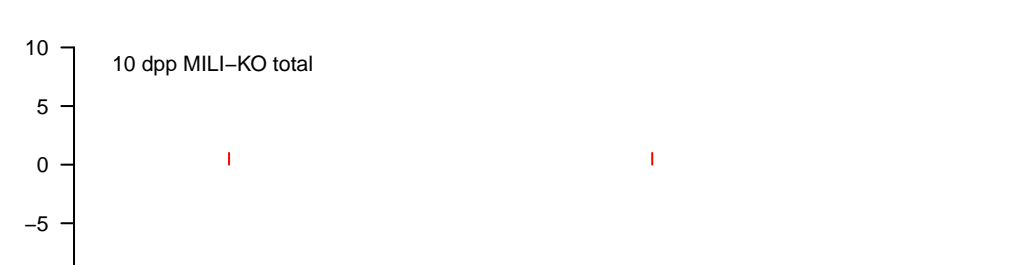
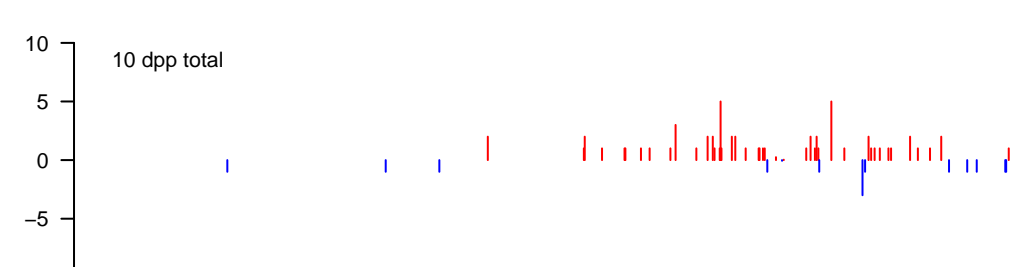
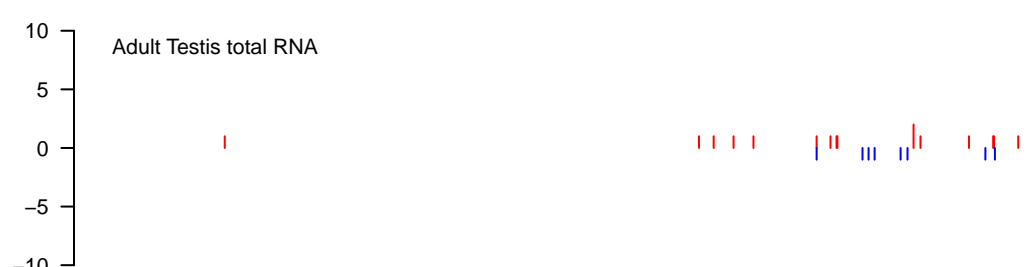
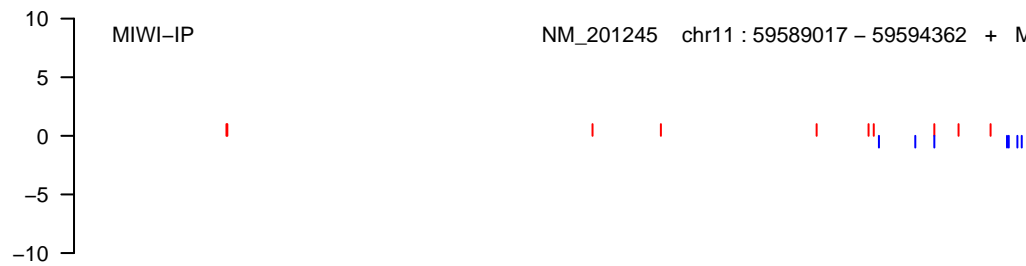


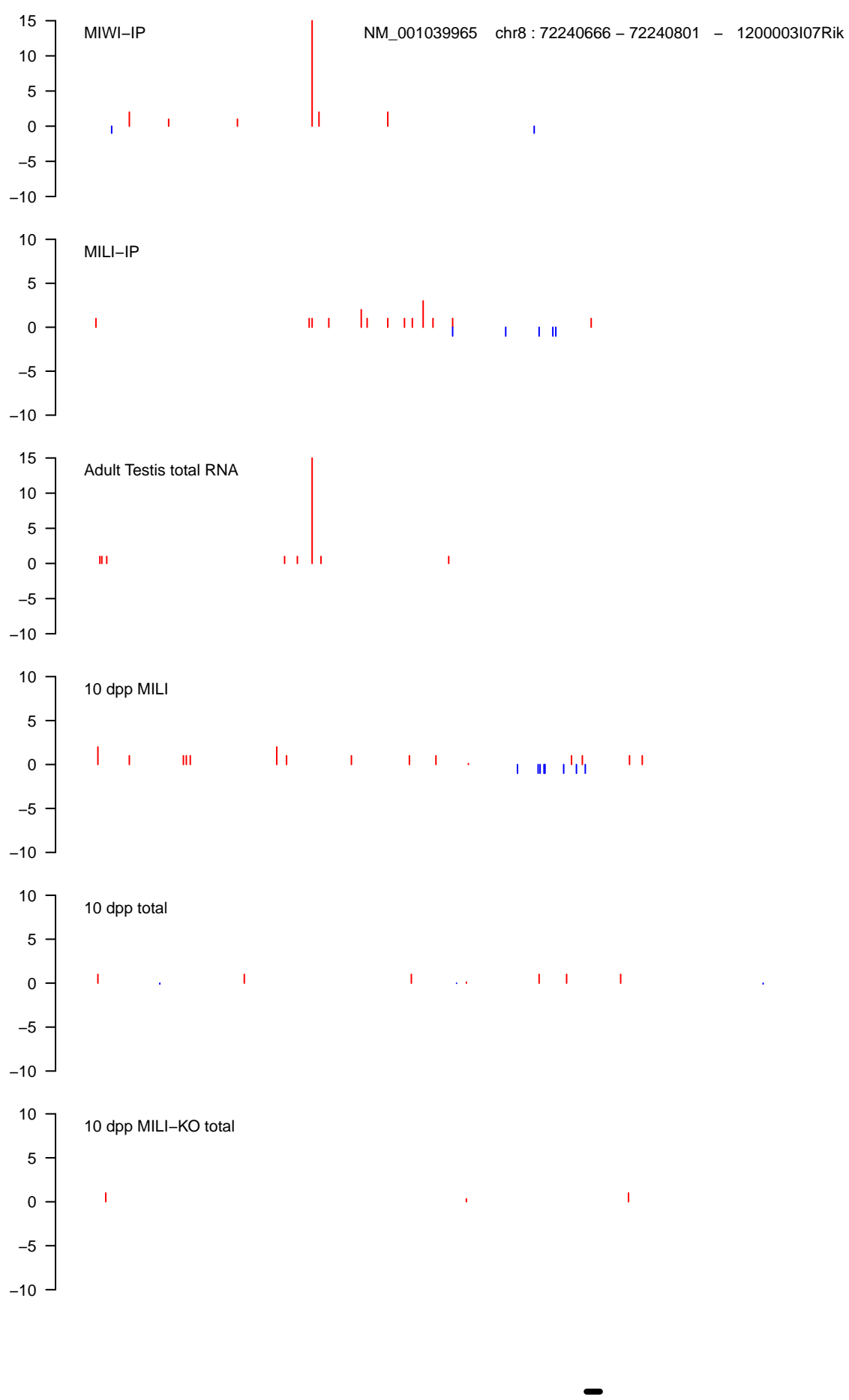
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NR\_027357 chr3 88214419 88229061 – Slc25a44

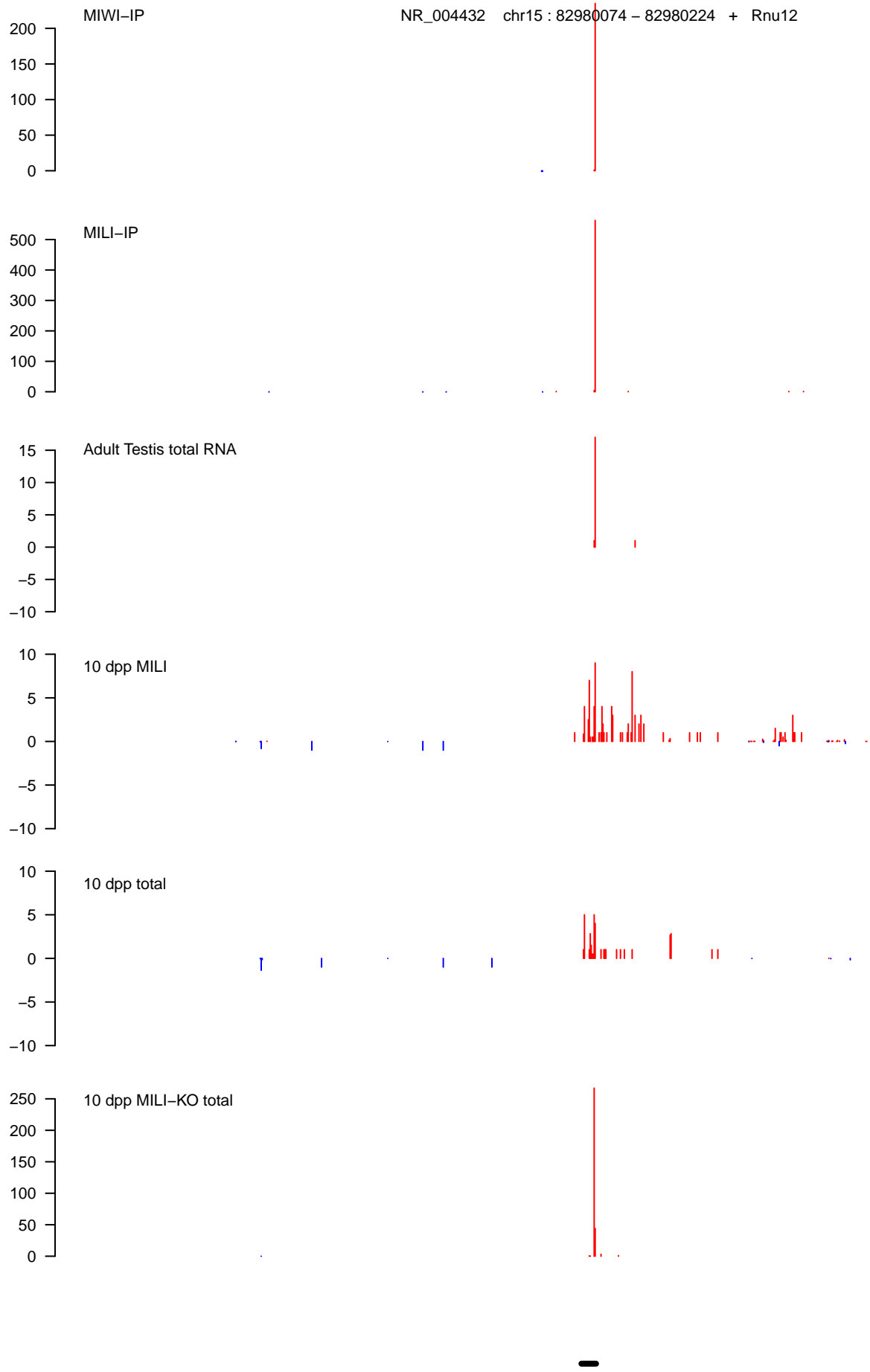


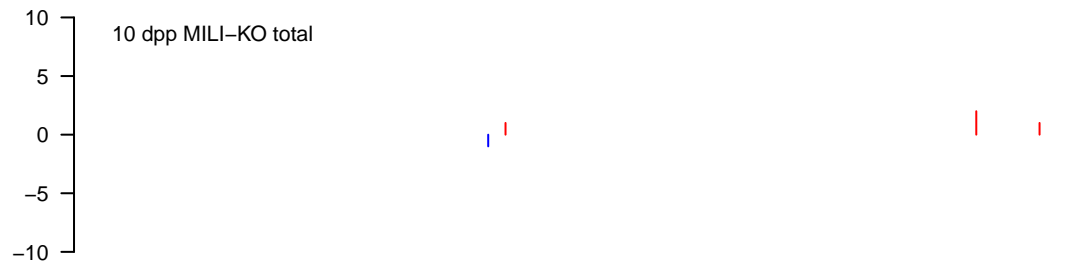
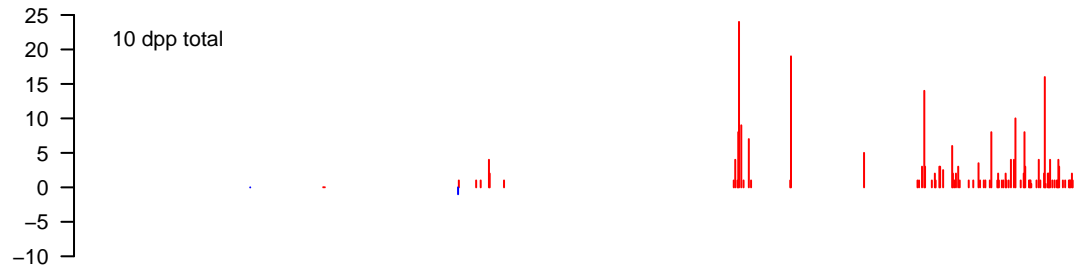
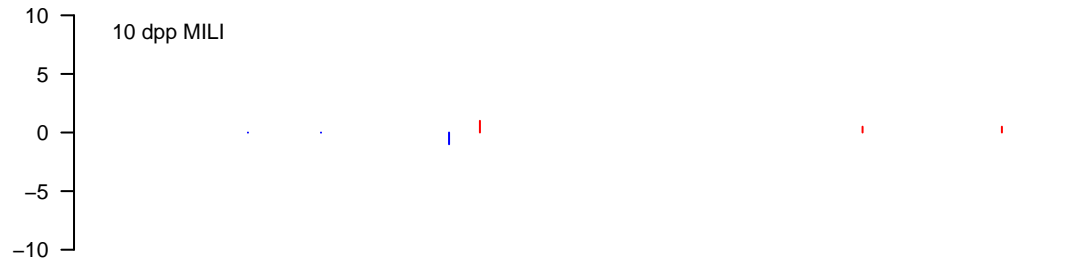
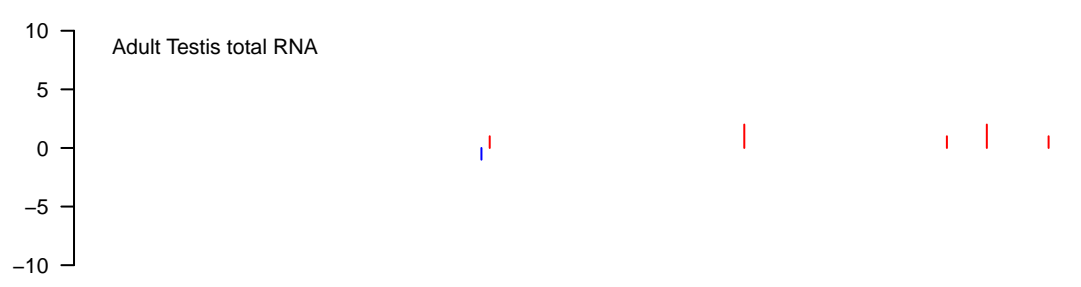
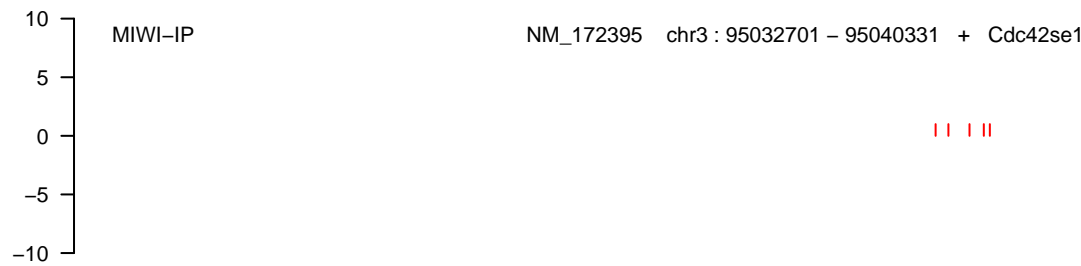


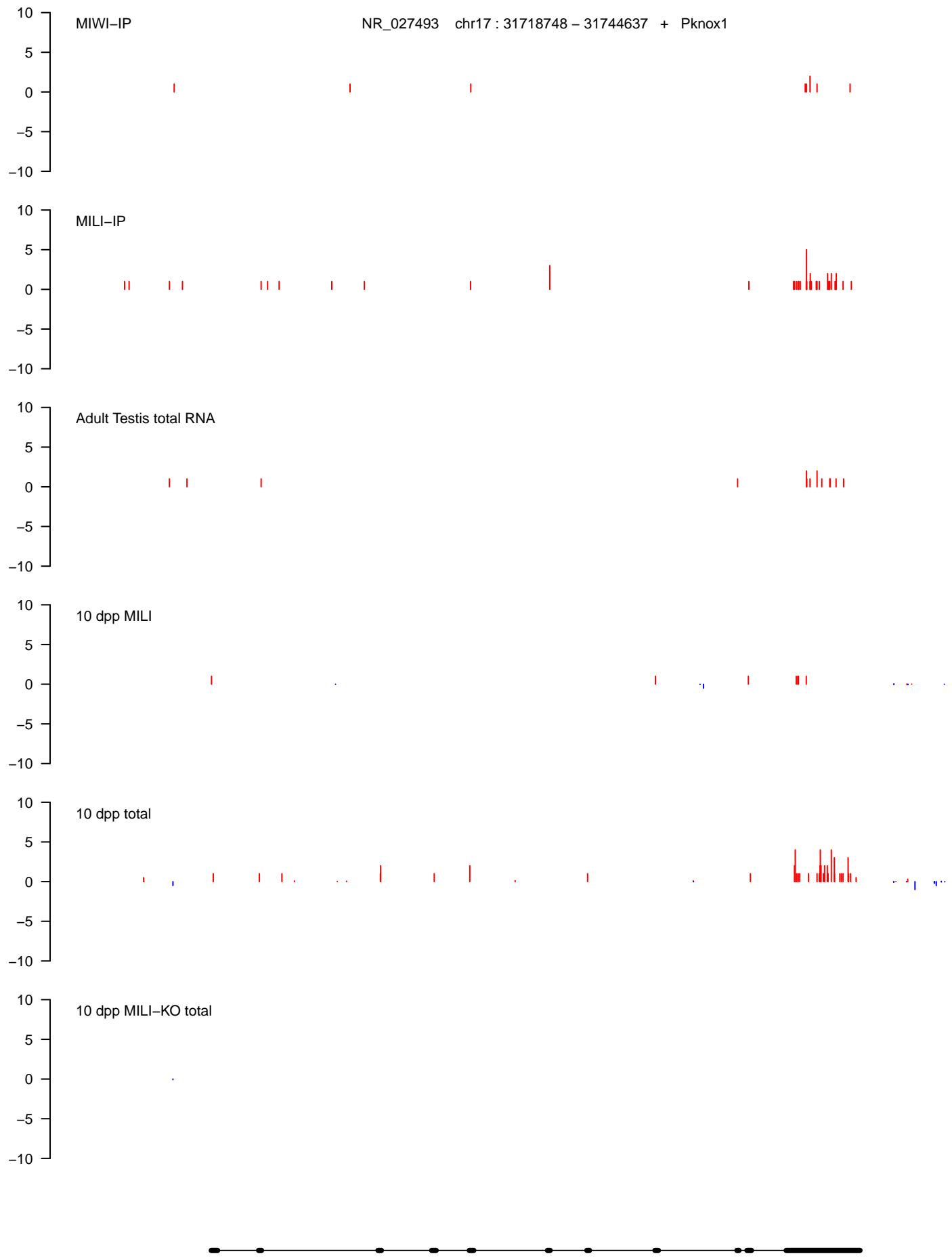


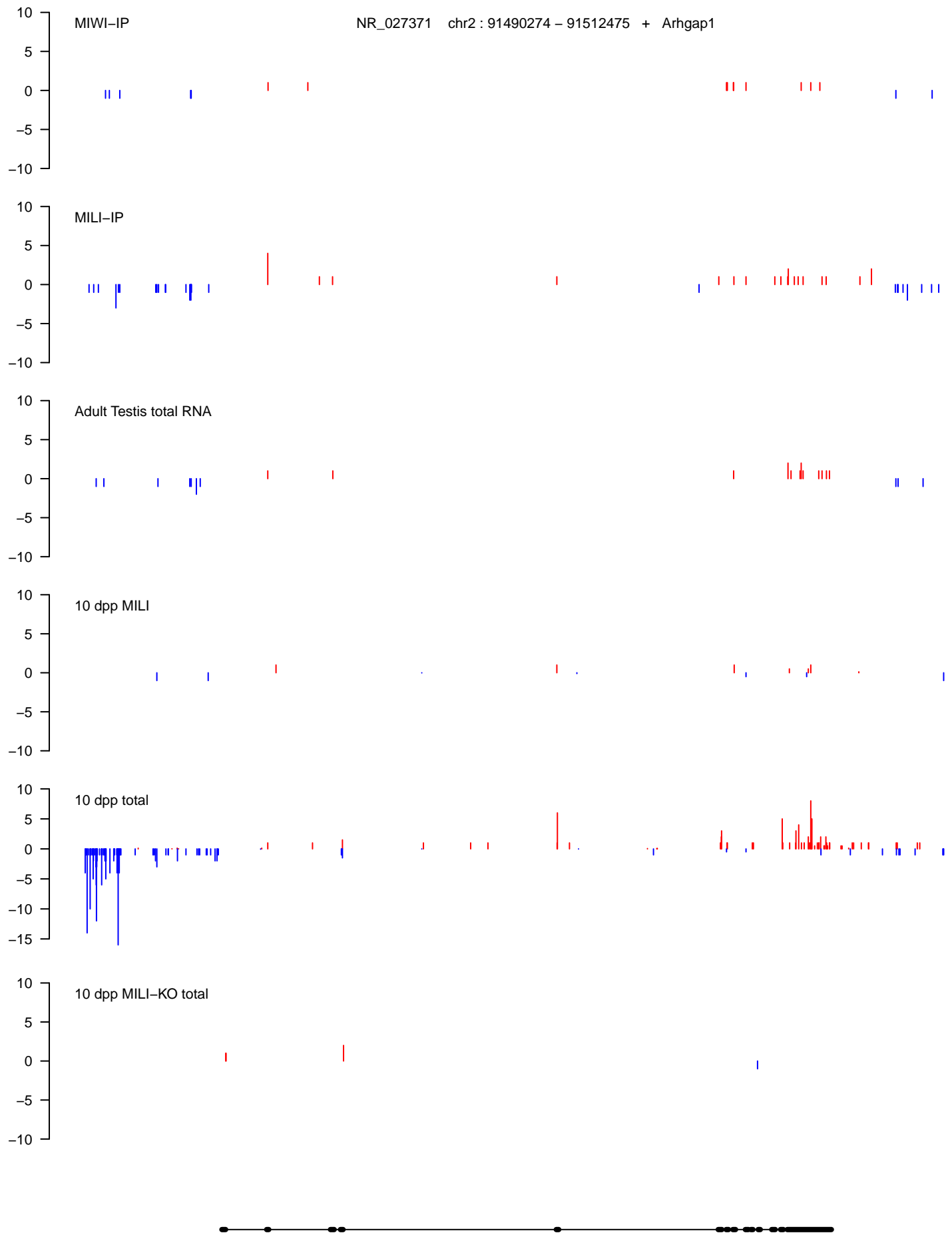
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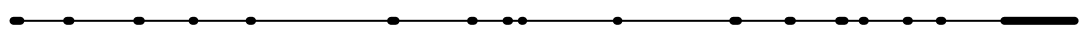
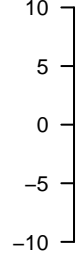
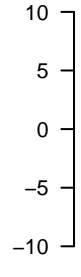
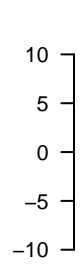
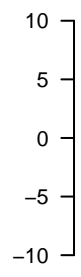
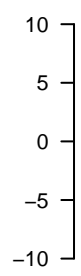
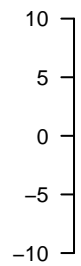


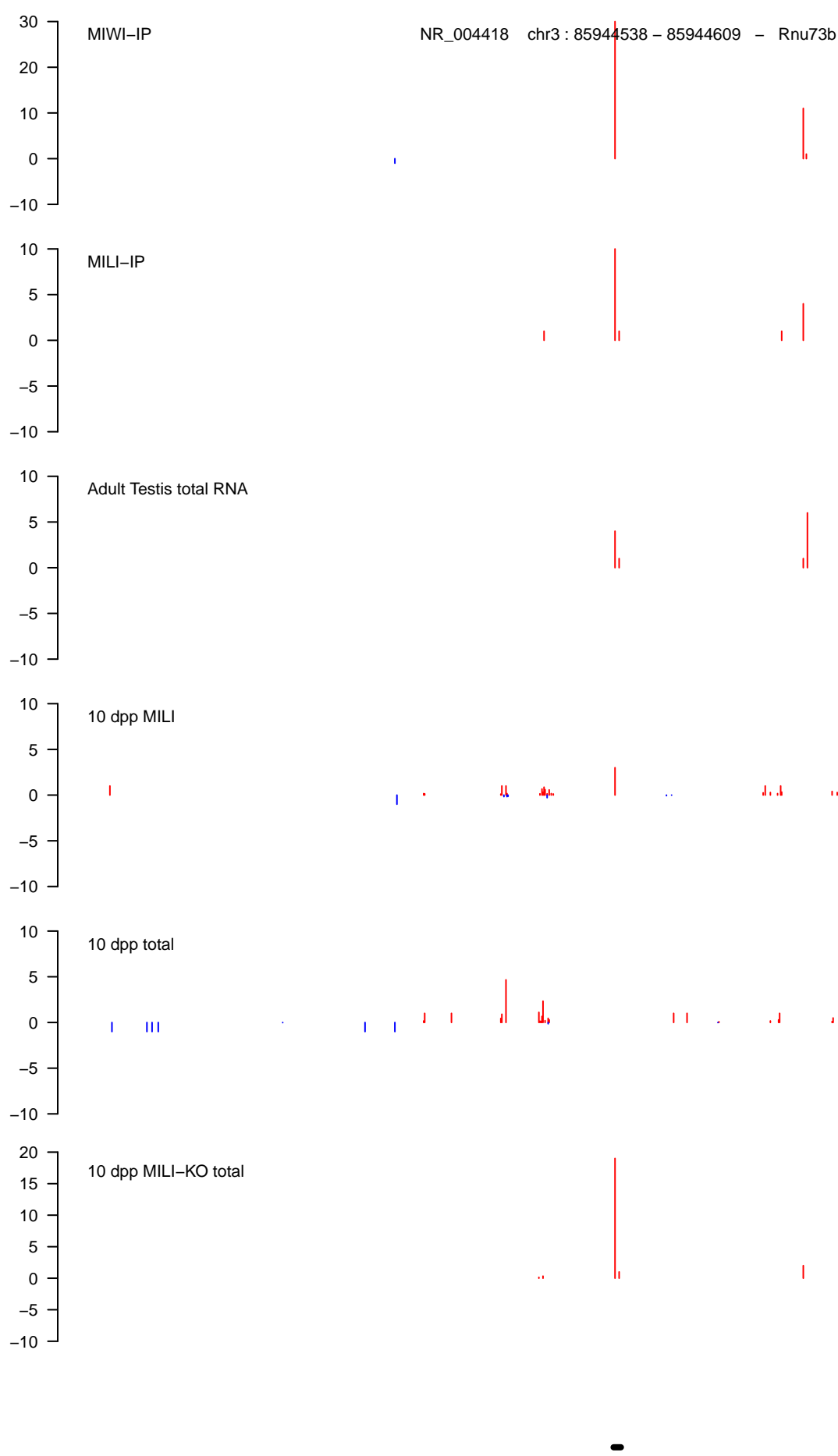


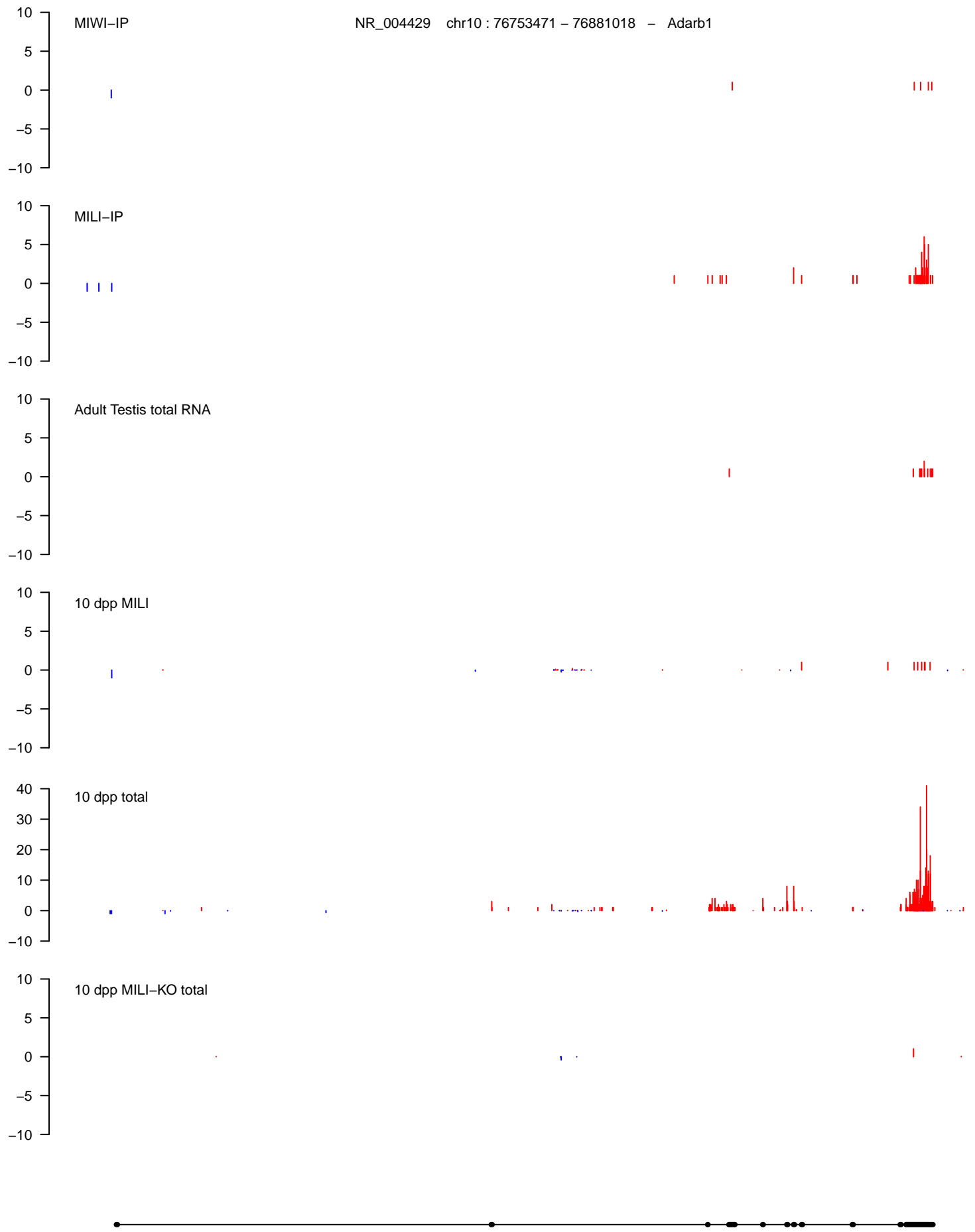


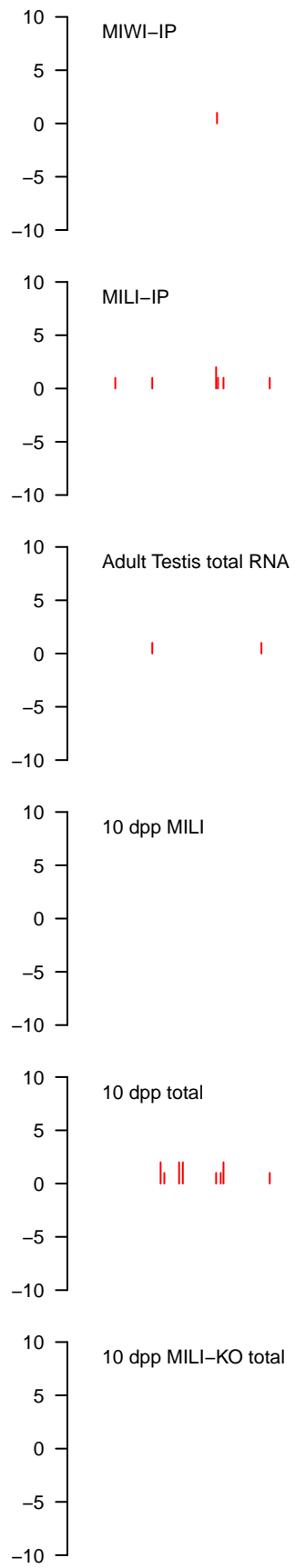




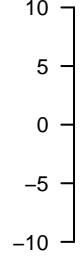
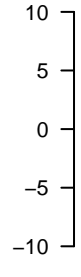
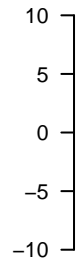
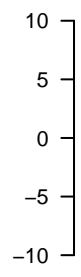
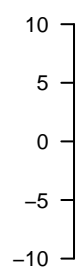
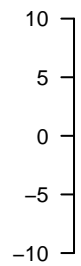


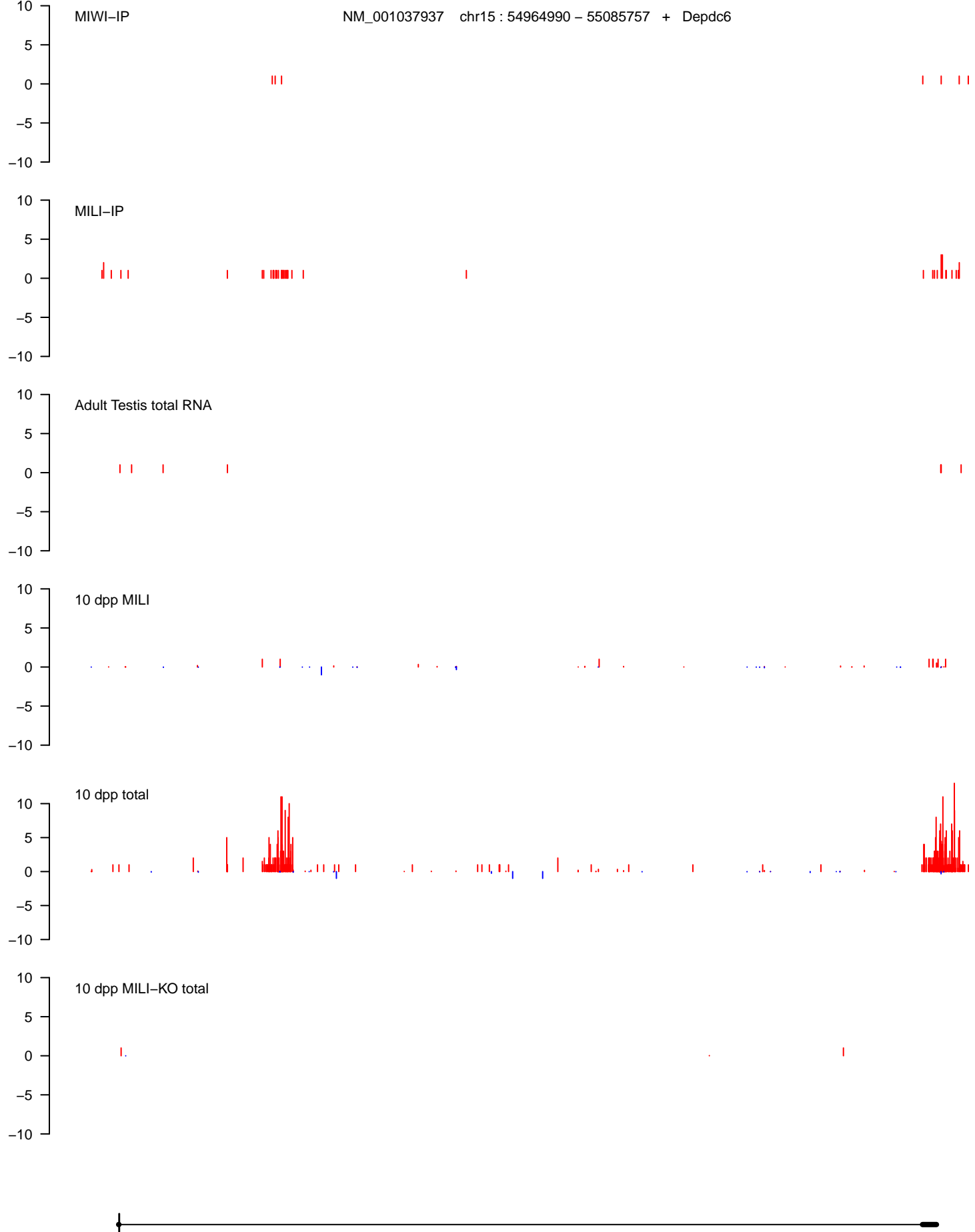


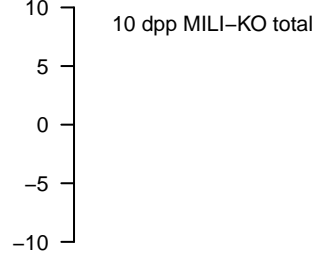
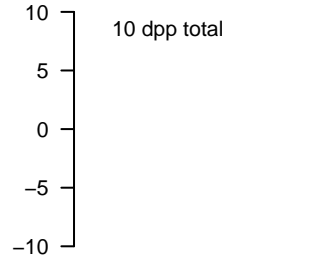
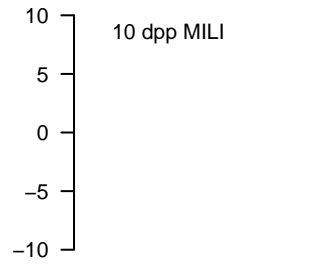
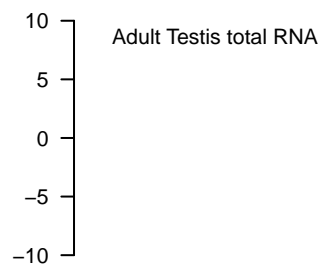
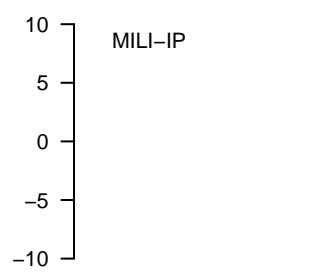
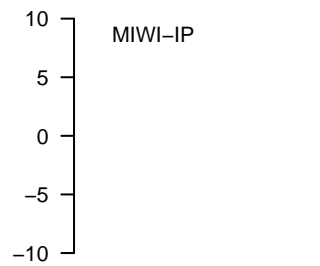


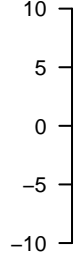




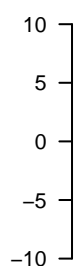




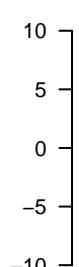




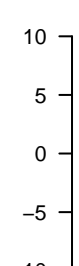
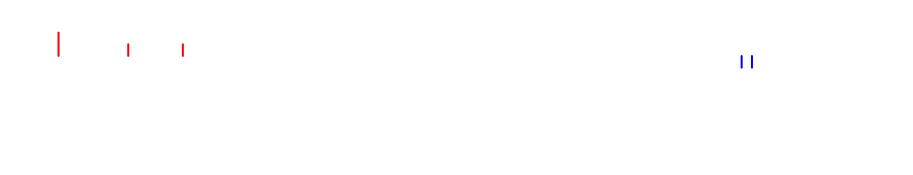
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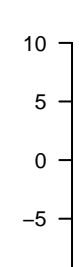
MILI-IP



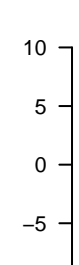
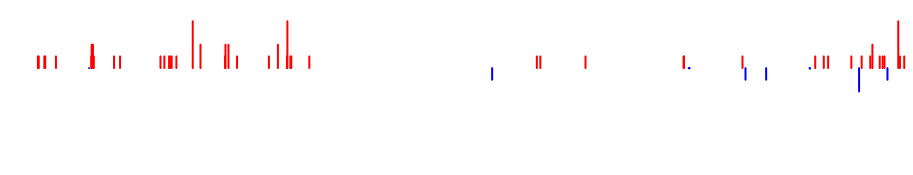
Adult Testis total RNA



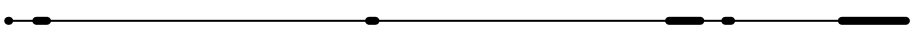
10 dpp MILI

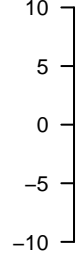
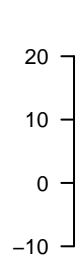
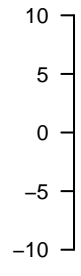
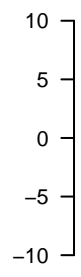
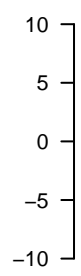
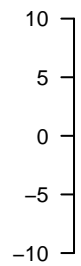


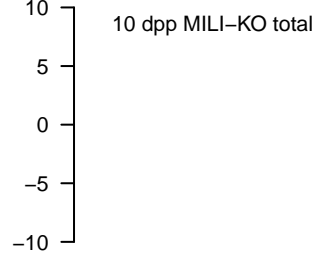
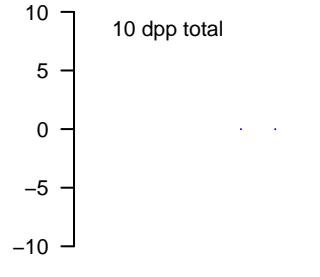
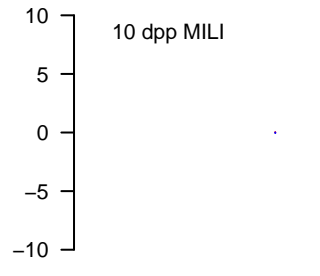
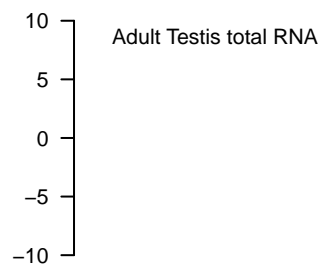
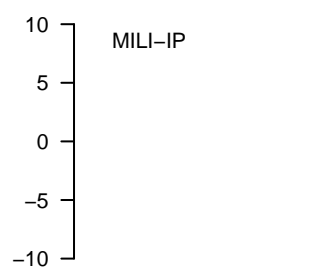
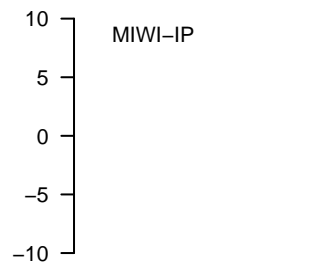
10 dpp total



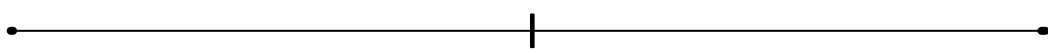
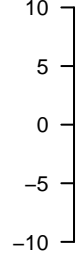
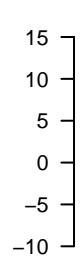
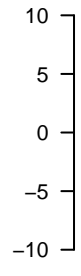
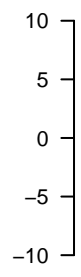
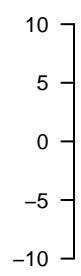
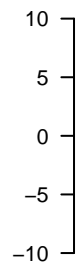
10 dpp MILI-KO total



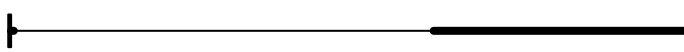
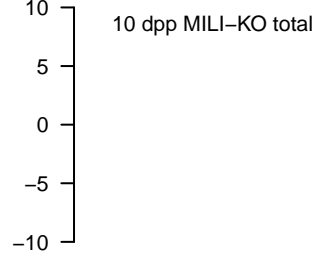
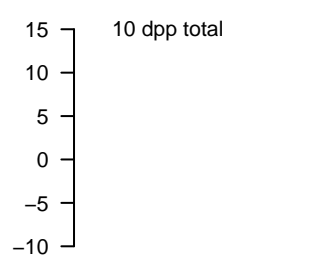
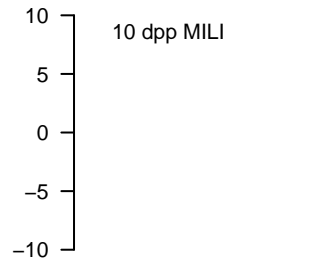
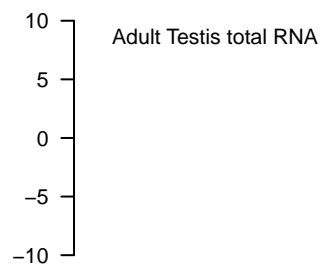
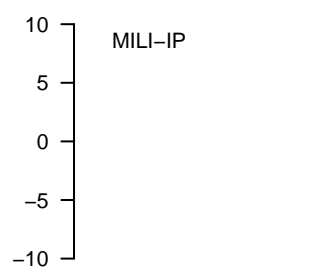
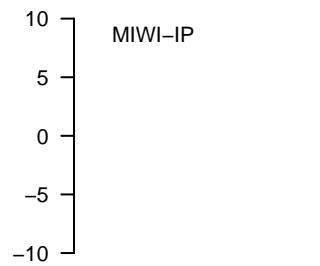




NM\_152894 chr15 : 34425086 – 34460403 + Pop1

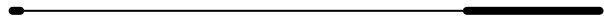
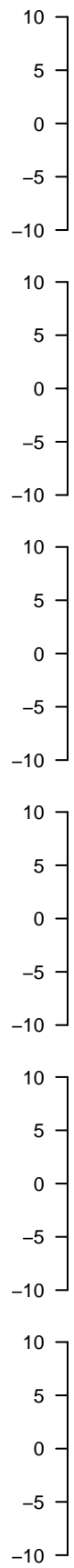


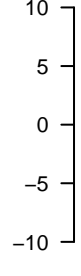
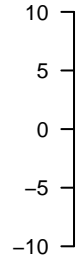
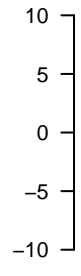
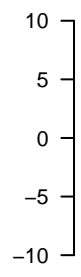
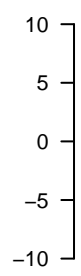
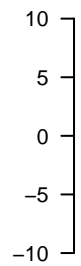
NM\_152894 chr15 34425086 34460403 + Pop1



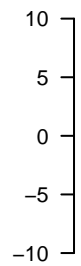


MIWI-IP  
MILI-IP  
Adult Testis total RNA  
10 dpp MILI  
10 dpp total  
10 dpp MILI-KO total

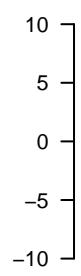




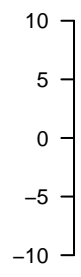
NR\_003518 chr11 : 3024029 – 3031945 + 4933439C20Rik



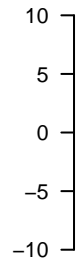
MIWI-IP



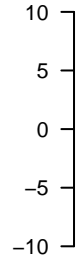
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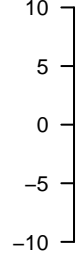
Adult Testis total RNA



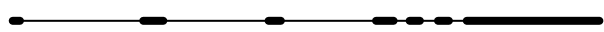
10 dpp MILI



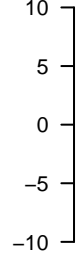
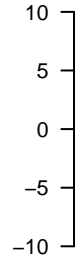
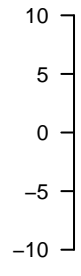
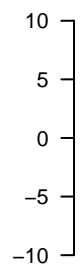
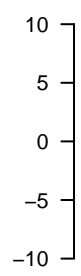
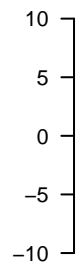
10 dpp total

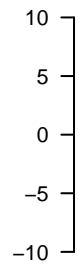
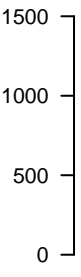
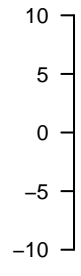
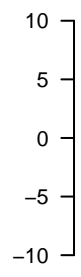
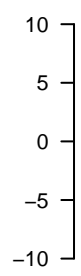
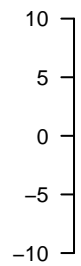


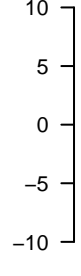
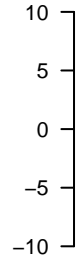
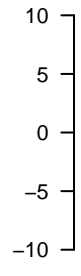
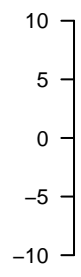
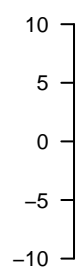
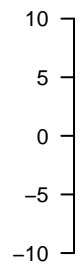
10 dpp MILI-KO total



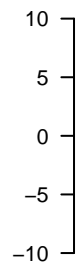
NR\_003518 chr11 3024029 3031945 + 4933439C20Rik



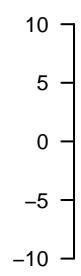




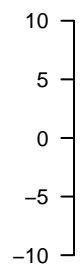
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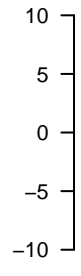
MIWI-IP



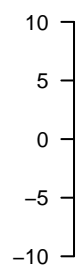
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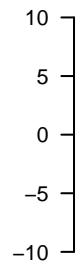
Adult Testis total RNA



10 dpp MILI



10 dpp total

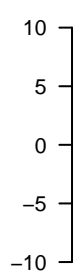


10 dpp MILI-KO total

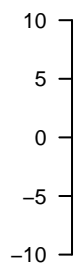


NM\_001012477 chr6 117126103 117131385 + Cxcl12

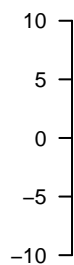
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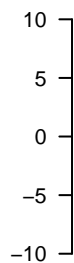
MIWI-IP



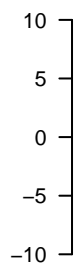
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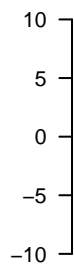
Adult Testis total RNA



10 dpp MILI



10 dpp total

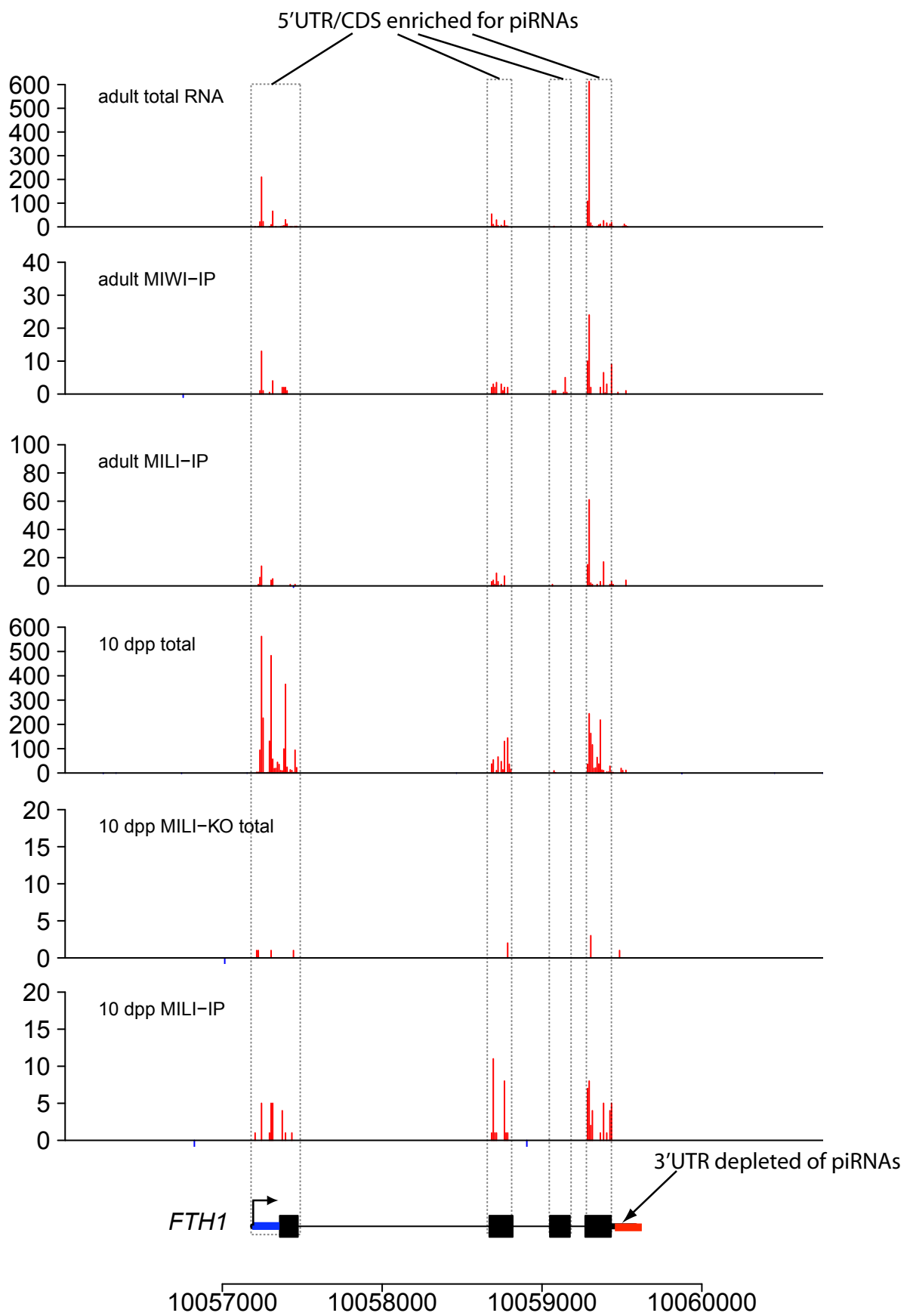


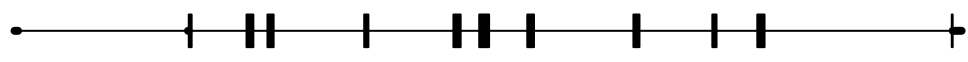
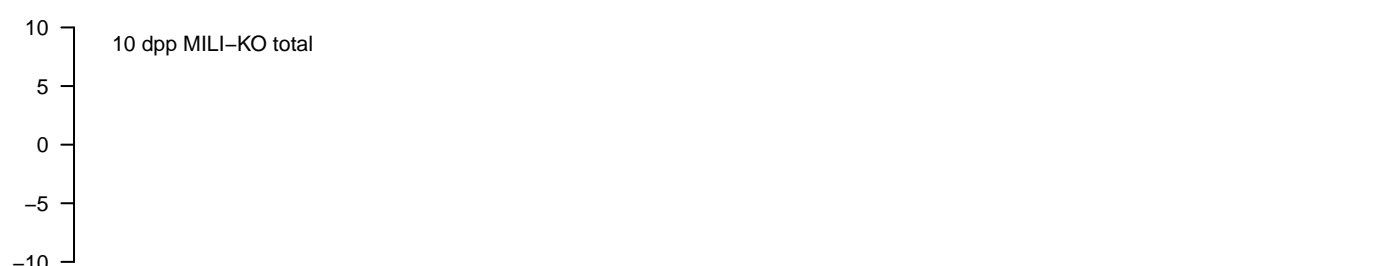
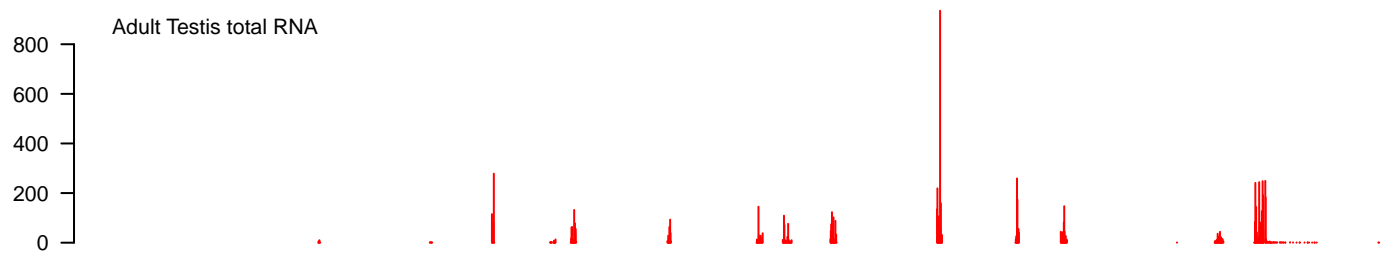
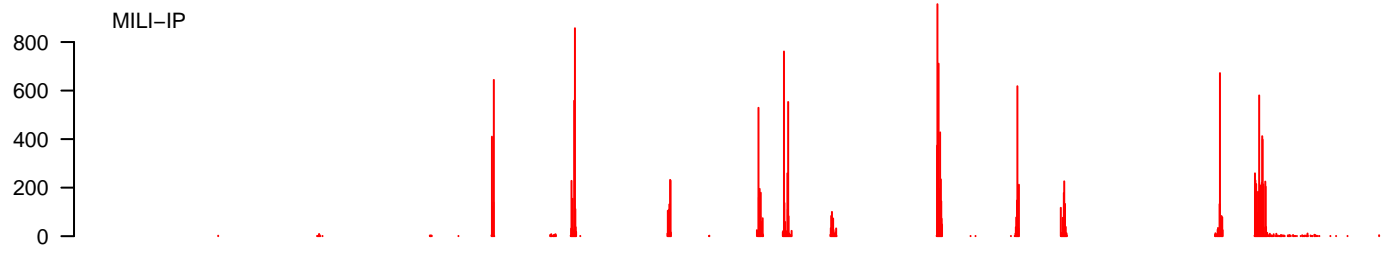
10 dpp MILI-KO total

NM\_016812 chr8 124530990 124531062 + Banp

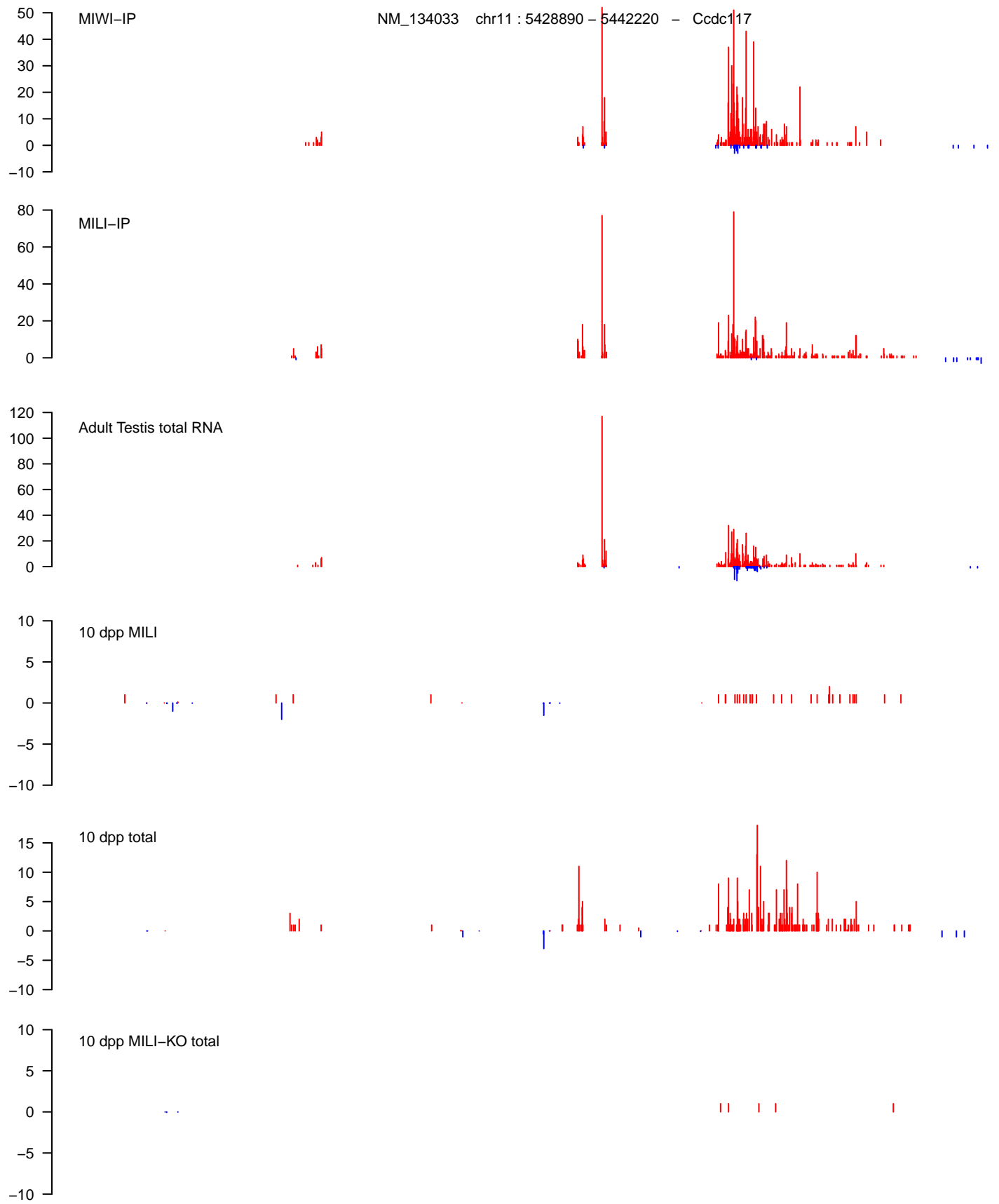




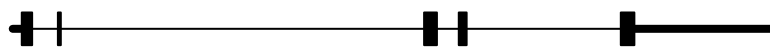




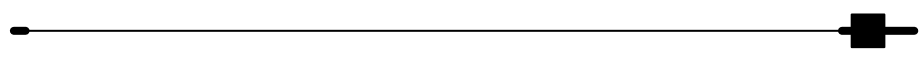
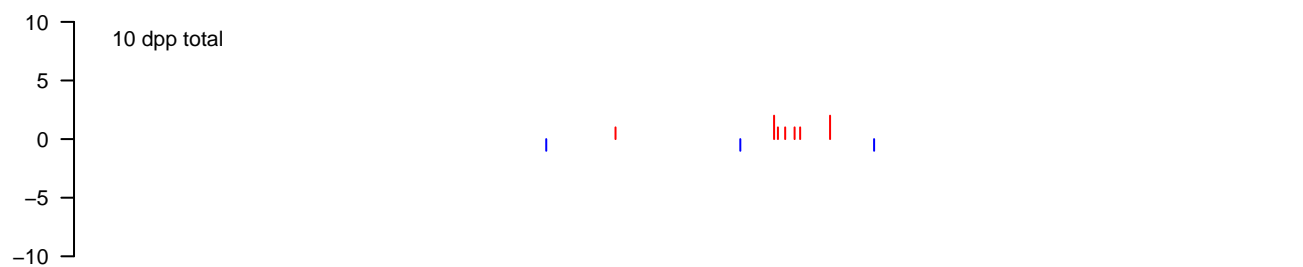
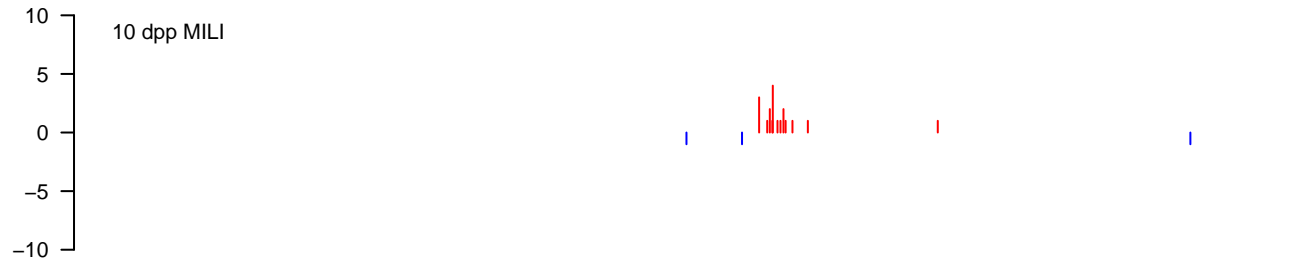
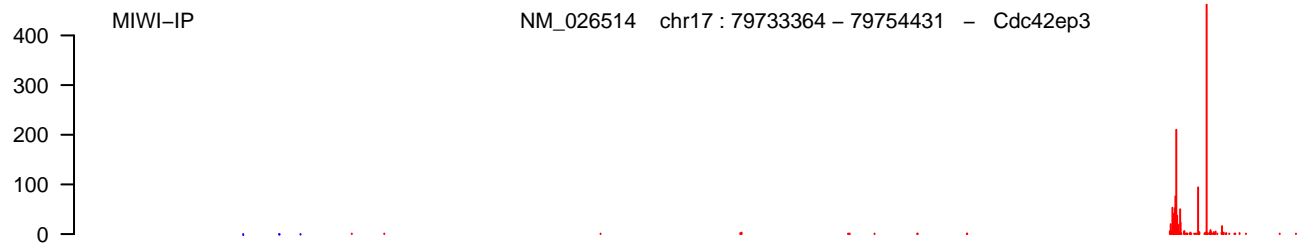
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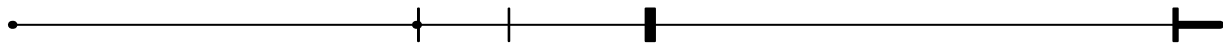
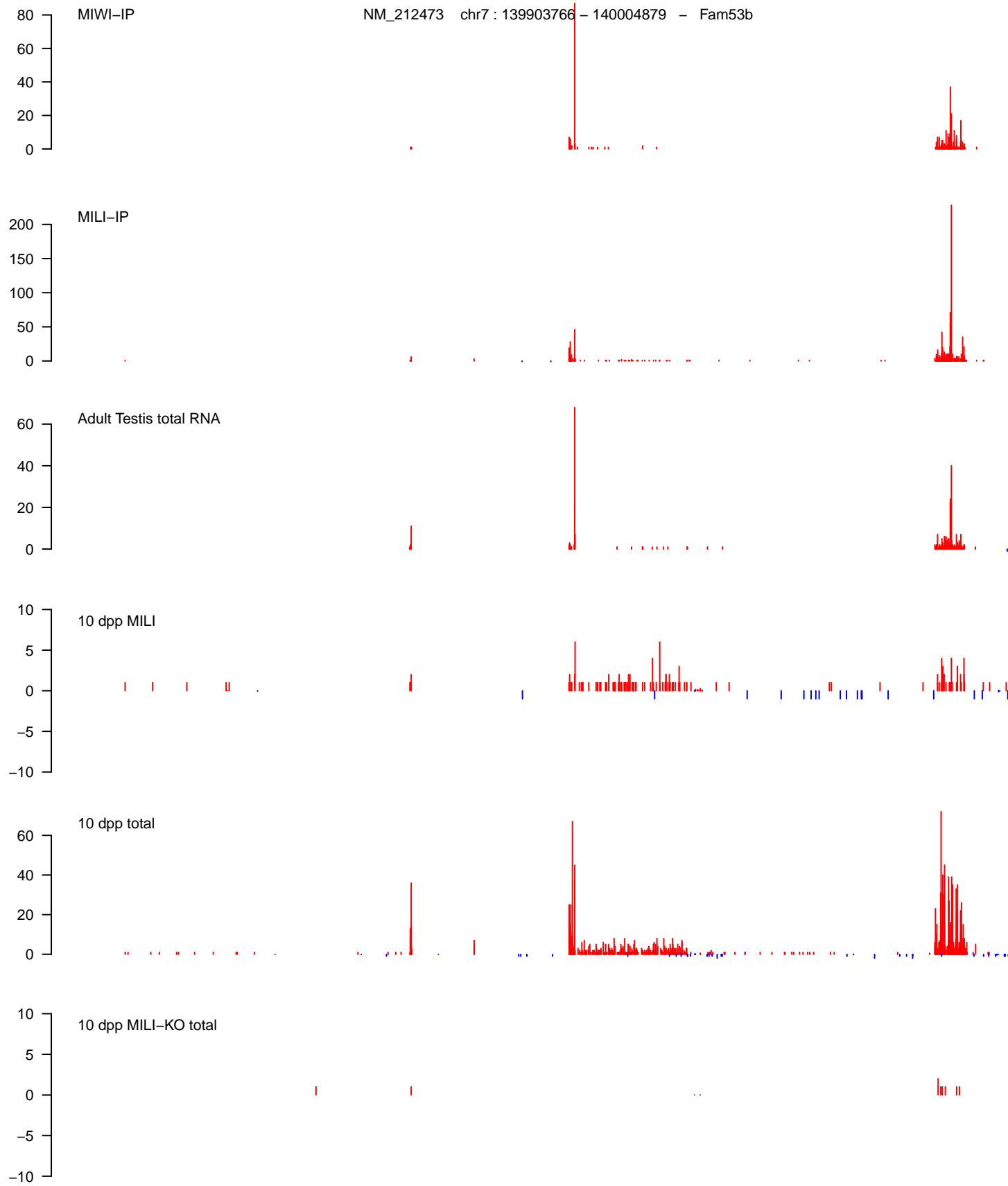
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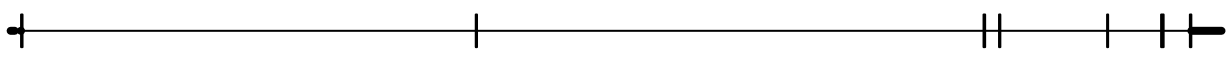
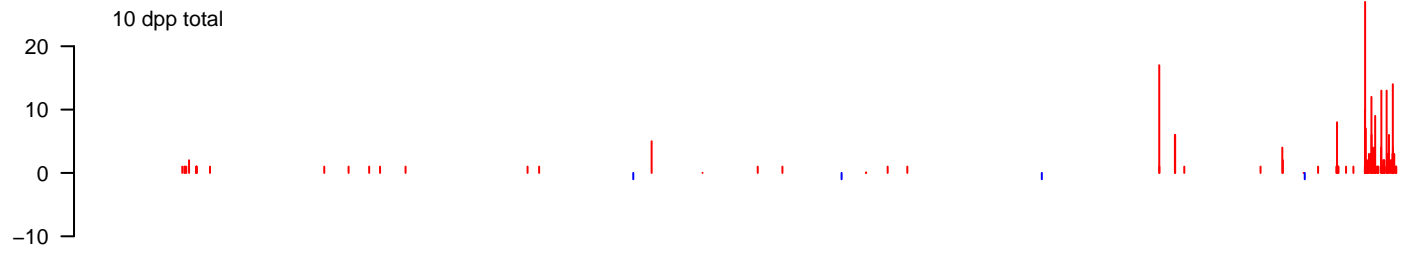
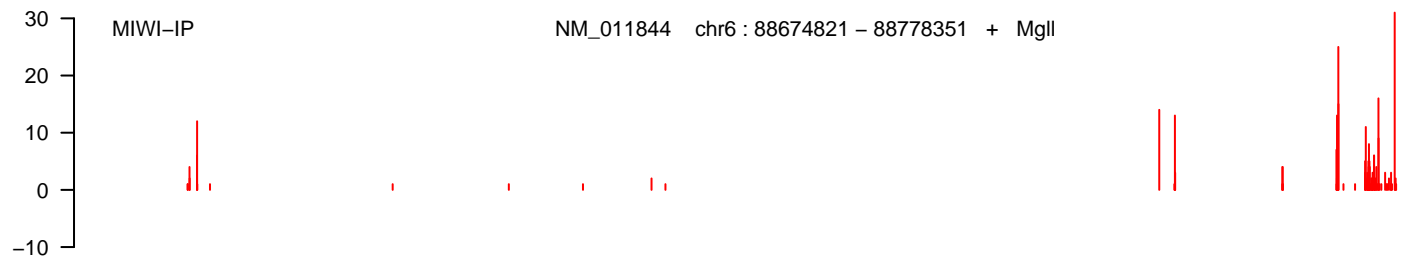
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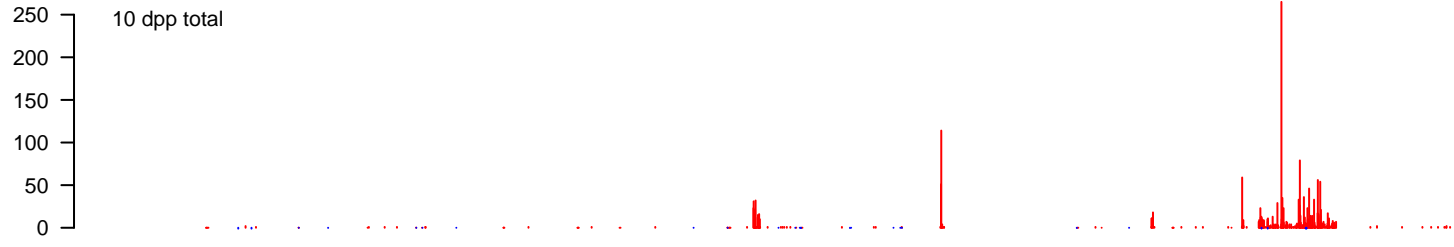
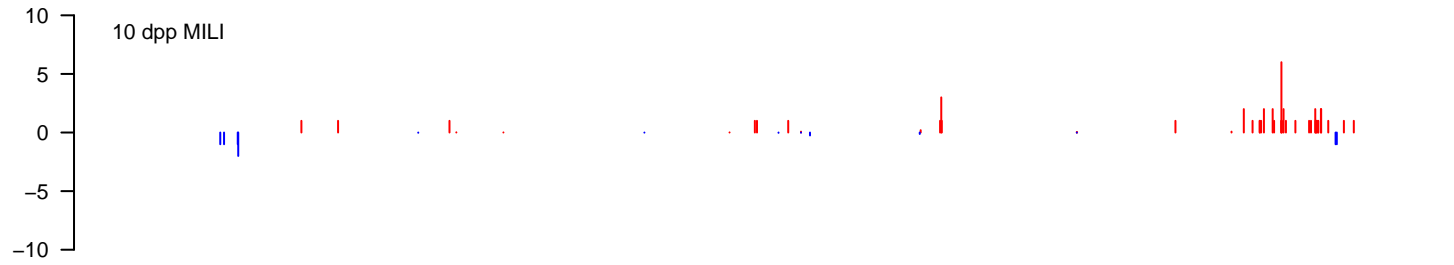
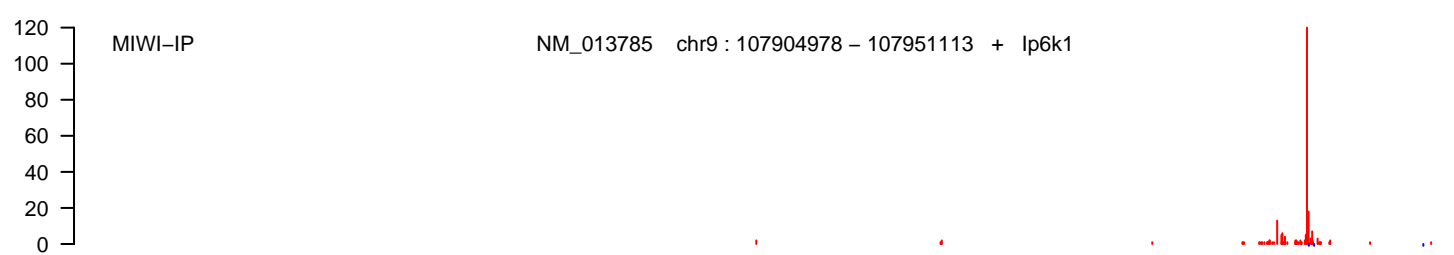


NM\_212473 chr7: 139903766 - 140004879 - Fam53b

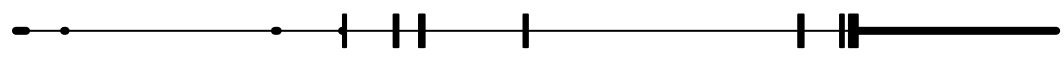
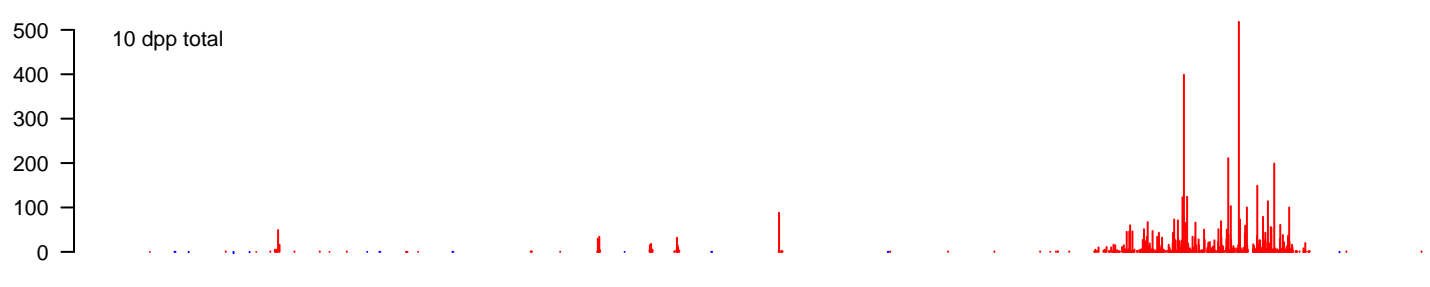
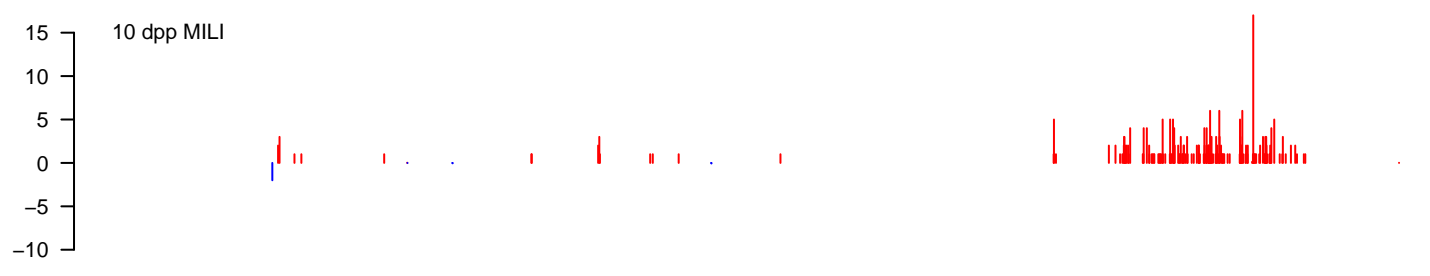
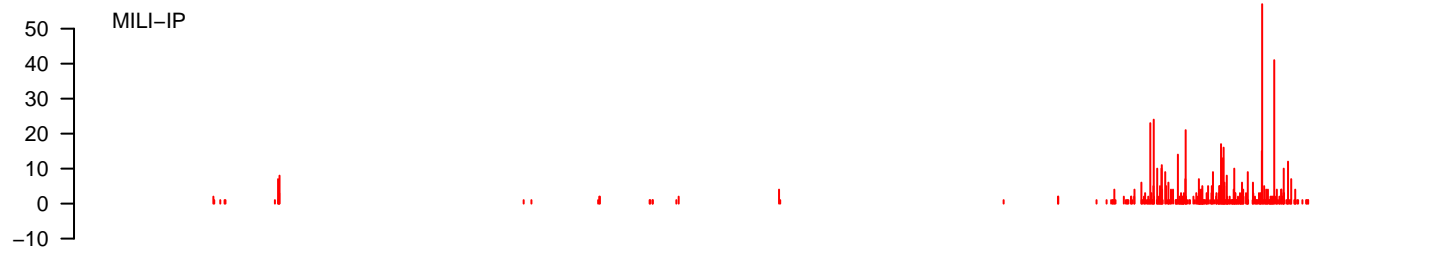
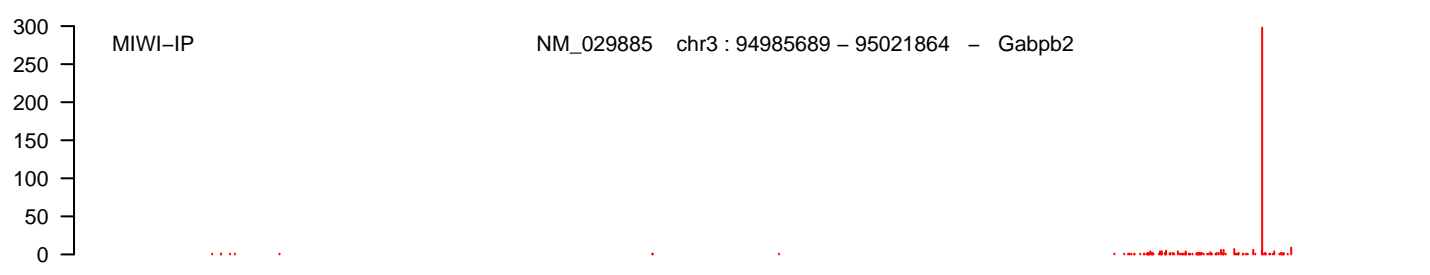


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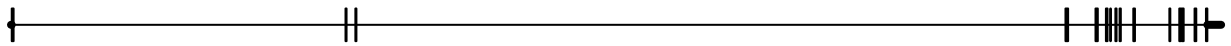
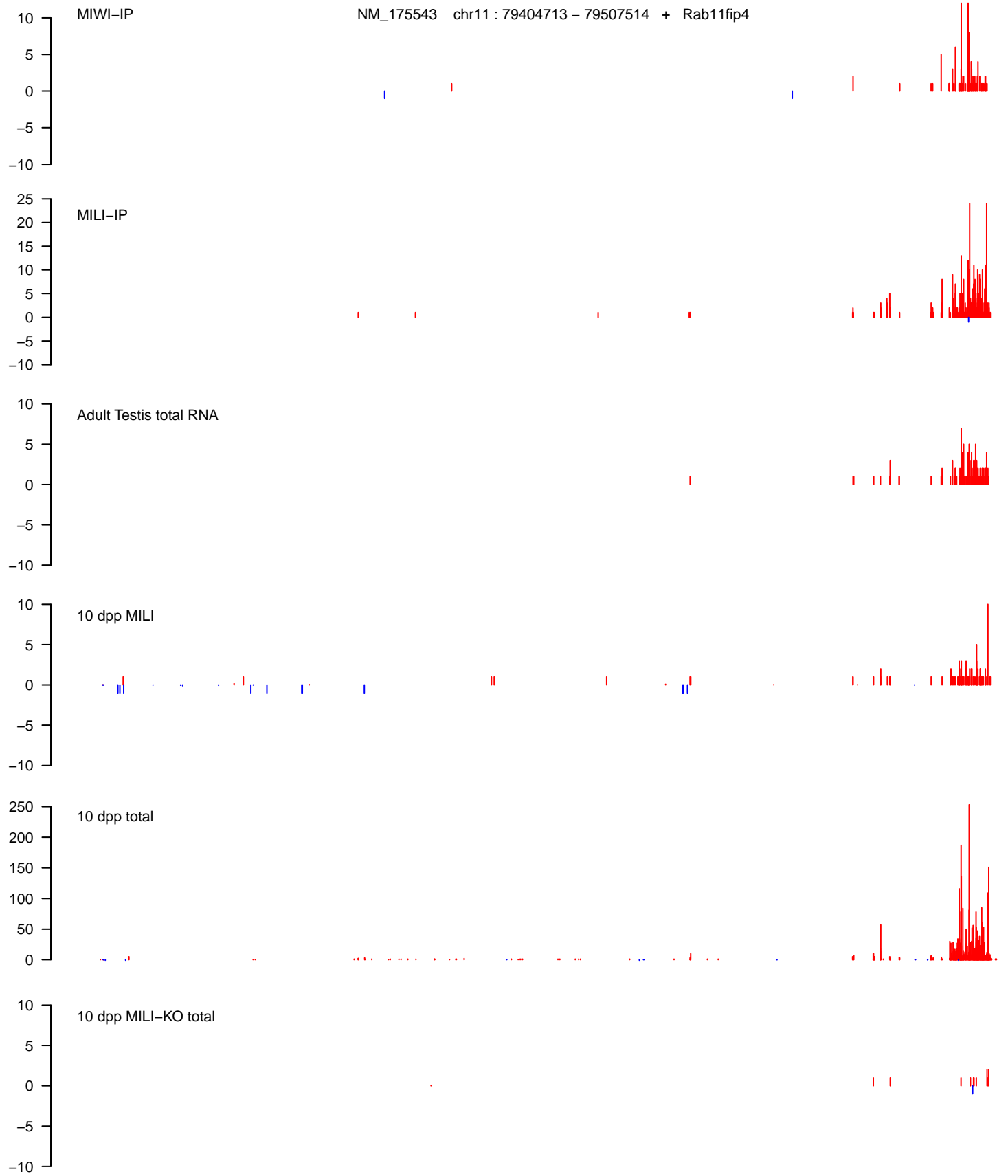
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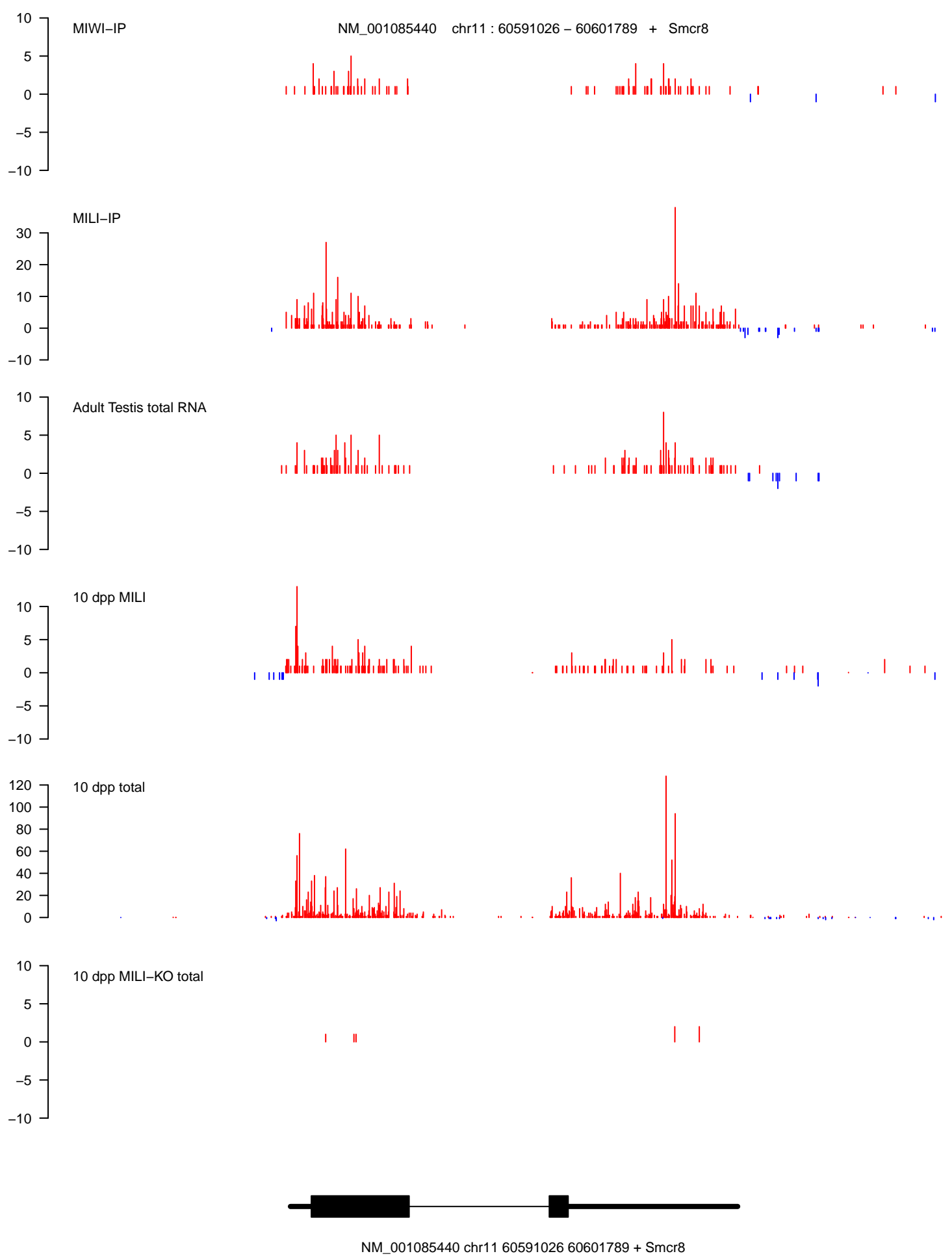
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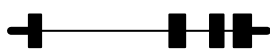
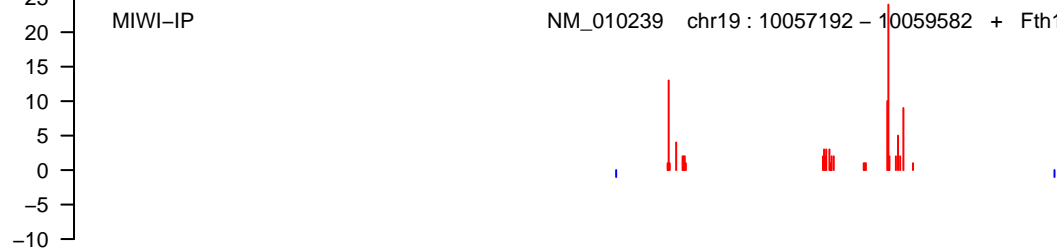
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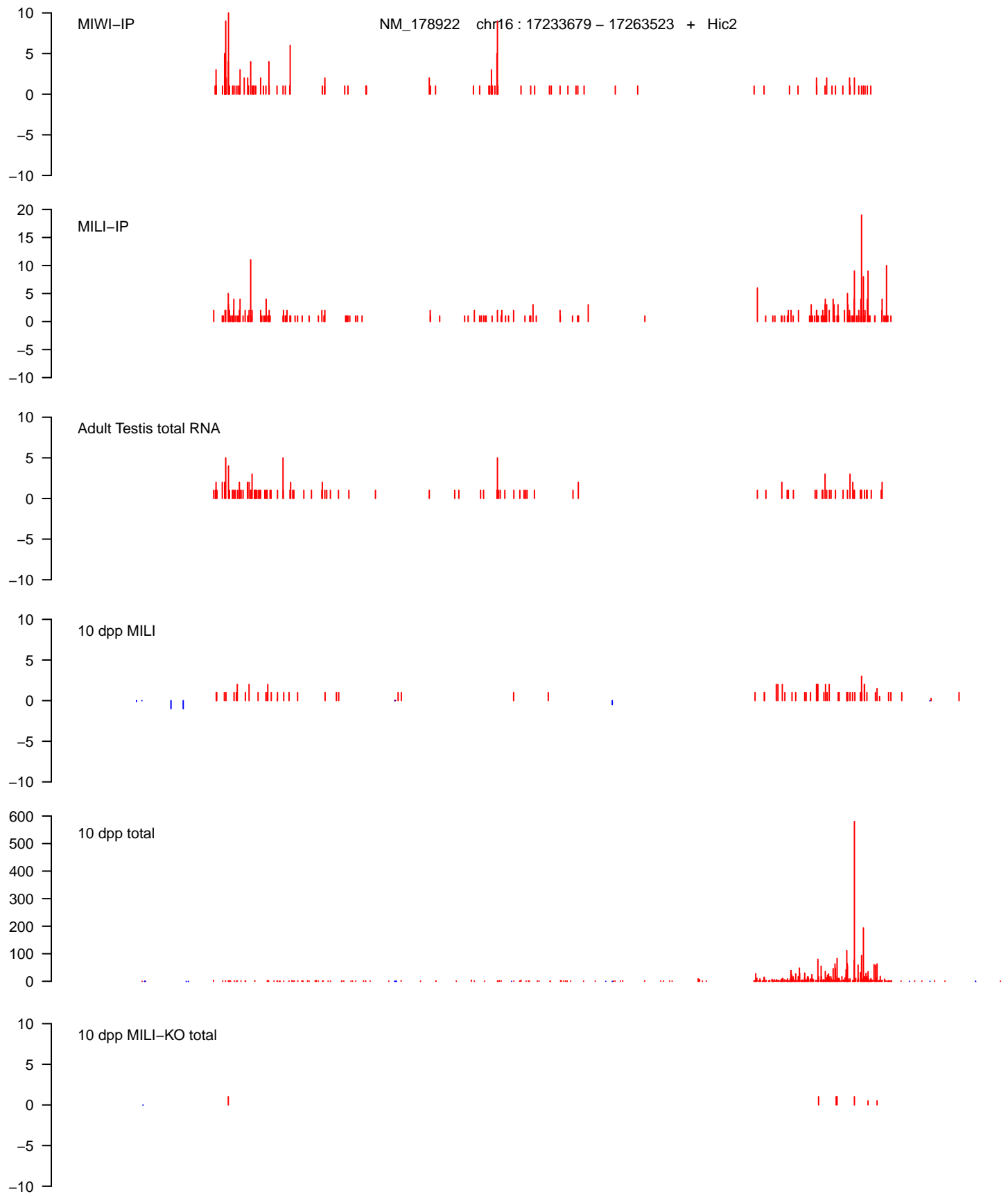
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NM\_010239 chr19:10057192 - 10059582 + Fth1

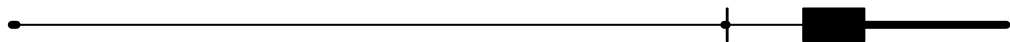


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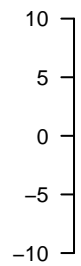


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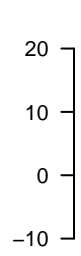
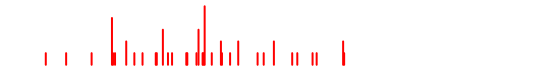
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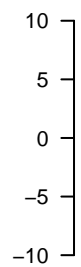
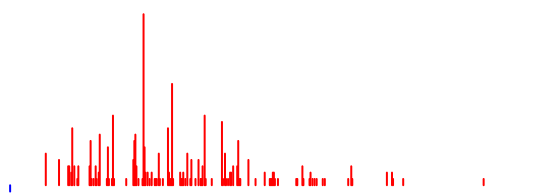
NM\_175491 chr11 : 60591529 – 60594569 + Smcr8



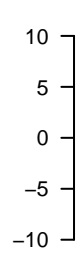
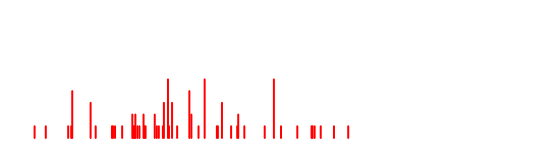
MIWI-IP



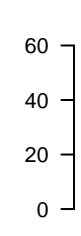
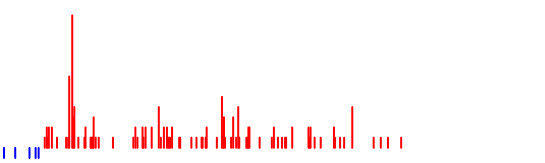
MILI-IP



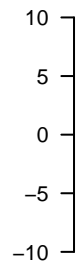
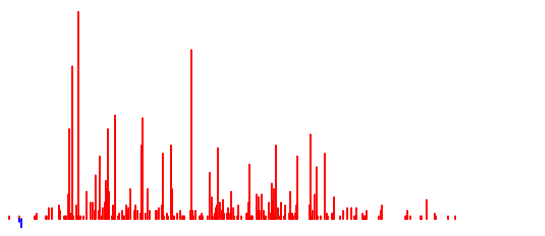
Adult Testis total RNA



10 dpp MILI



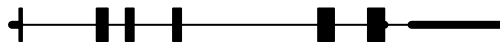
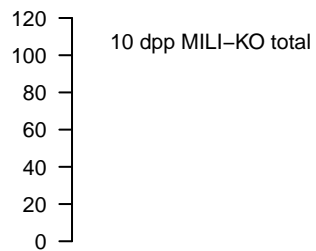
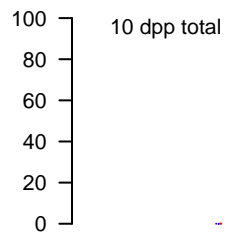
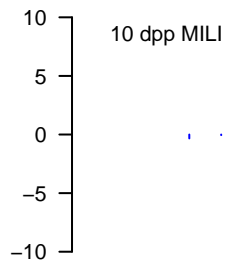
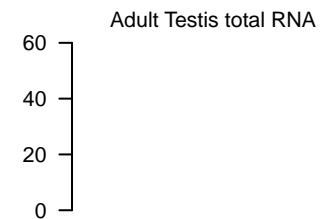
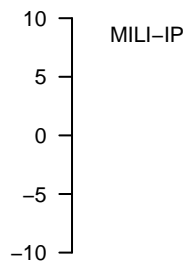
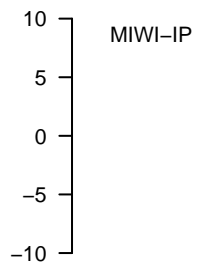
10 dpp total

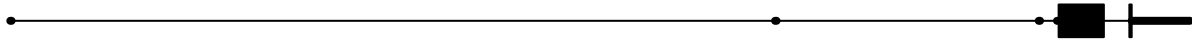
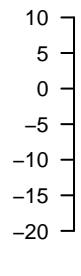
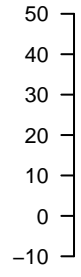
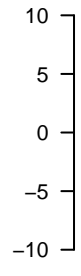
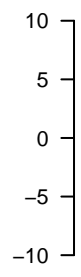
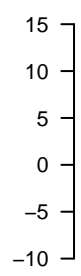
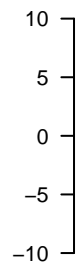


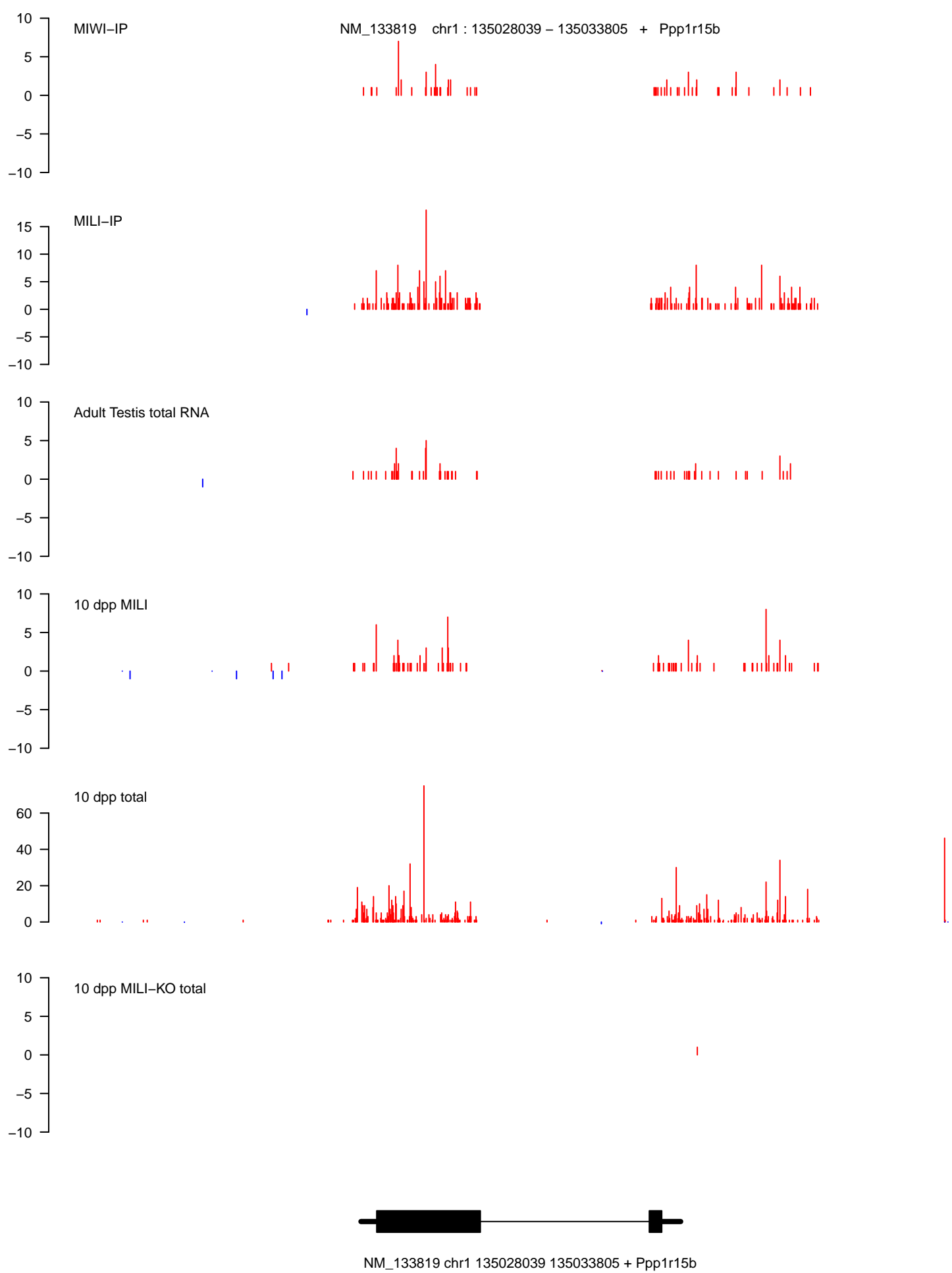
10 dpp MILI-KO total



NM\_175491 chr11 60591529 60594569 + Smcr8

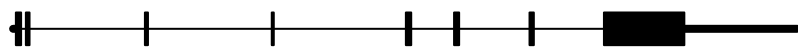
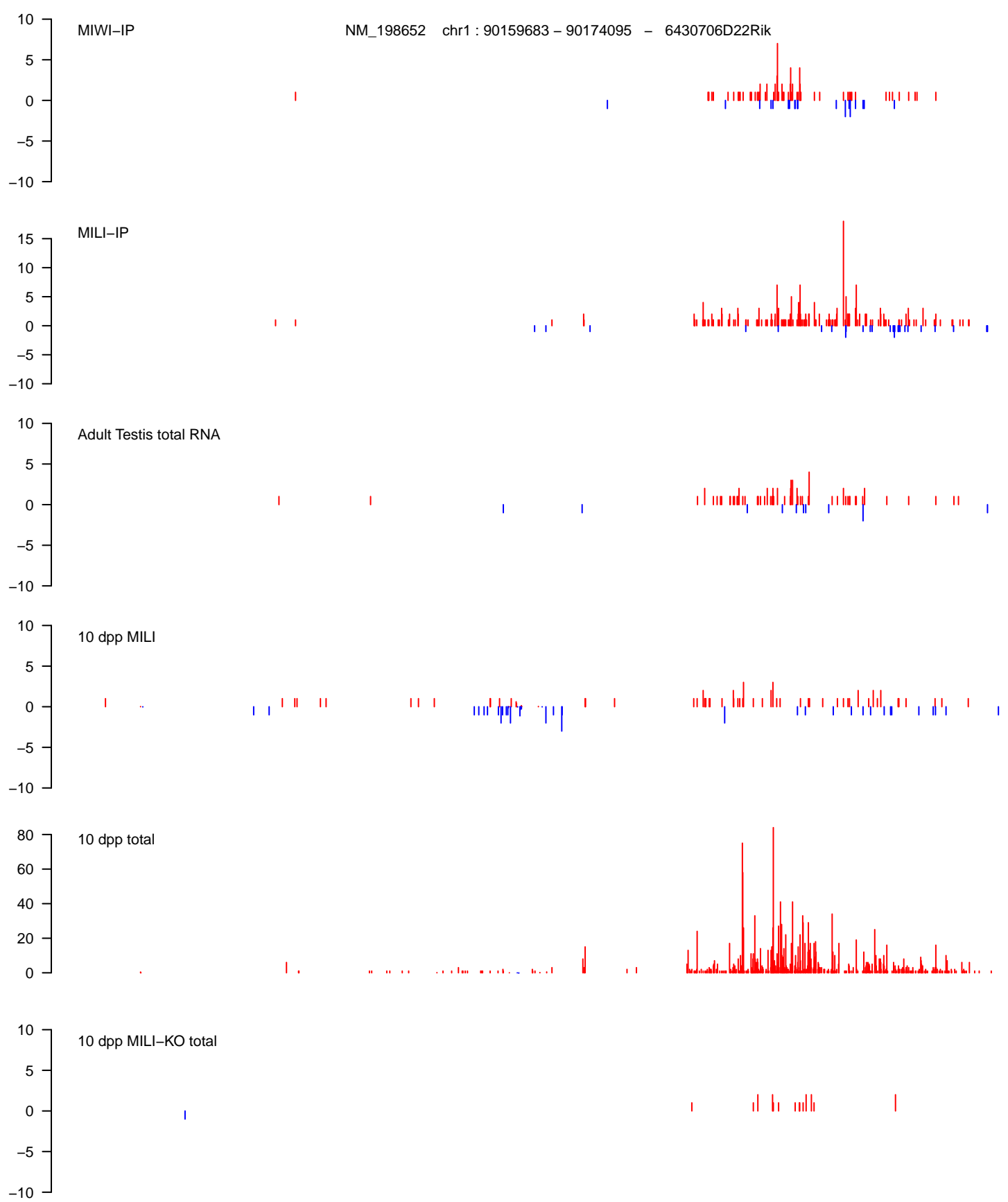




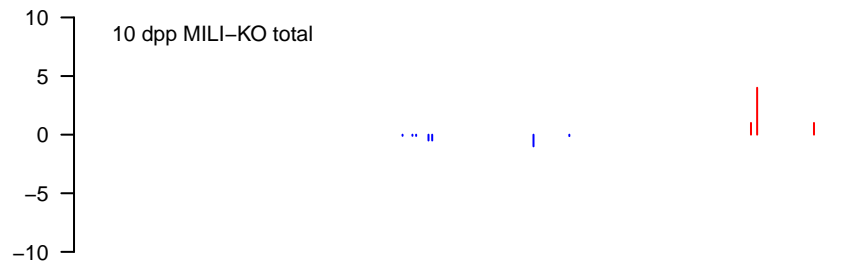
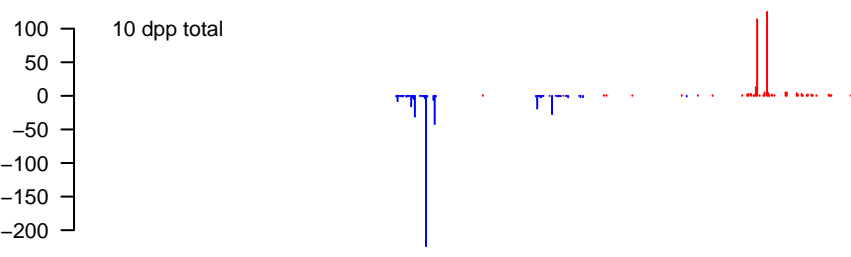
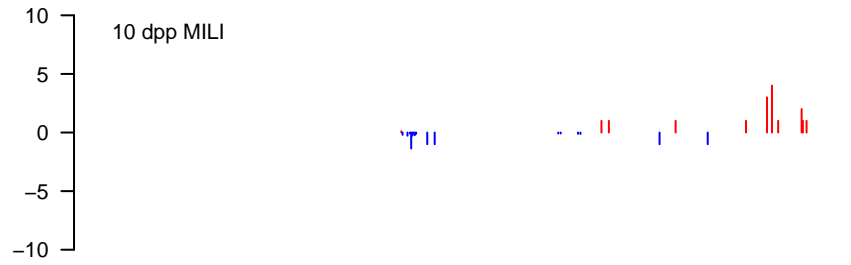
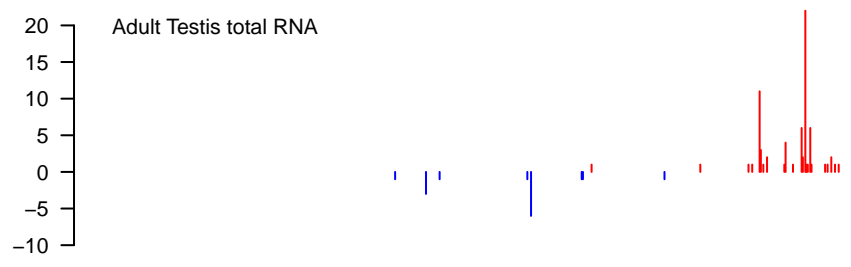
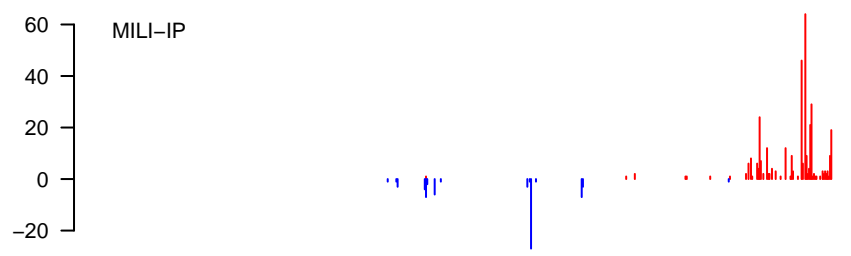
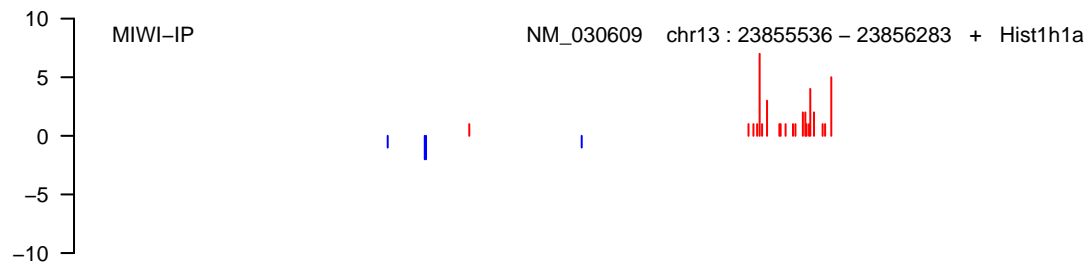


NM\_133819 chr1 135028039 135033805 + Ppp1r15b

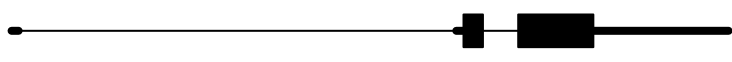
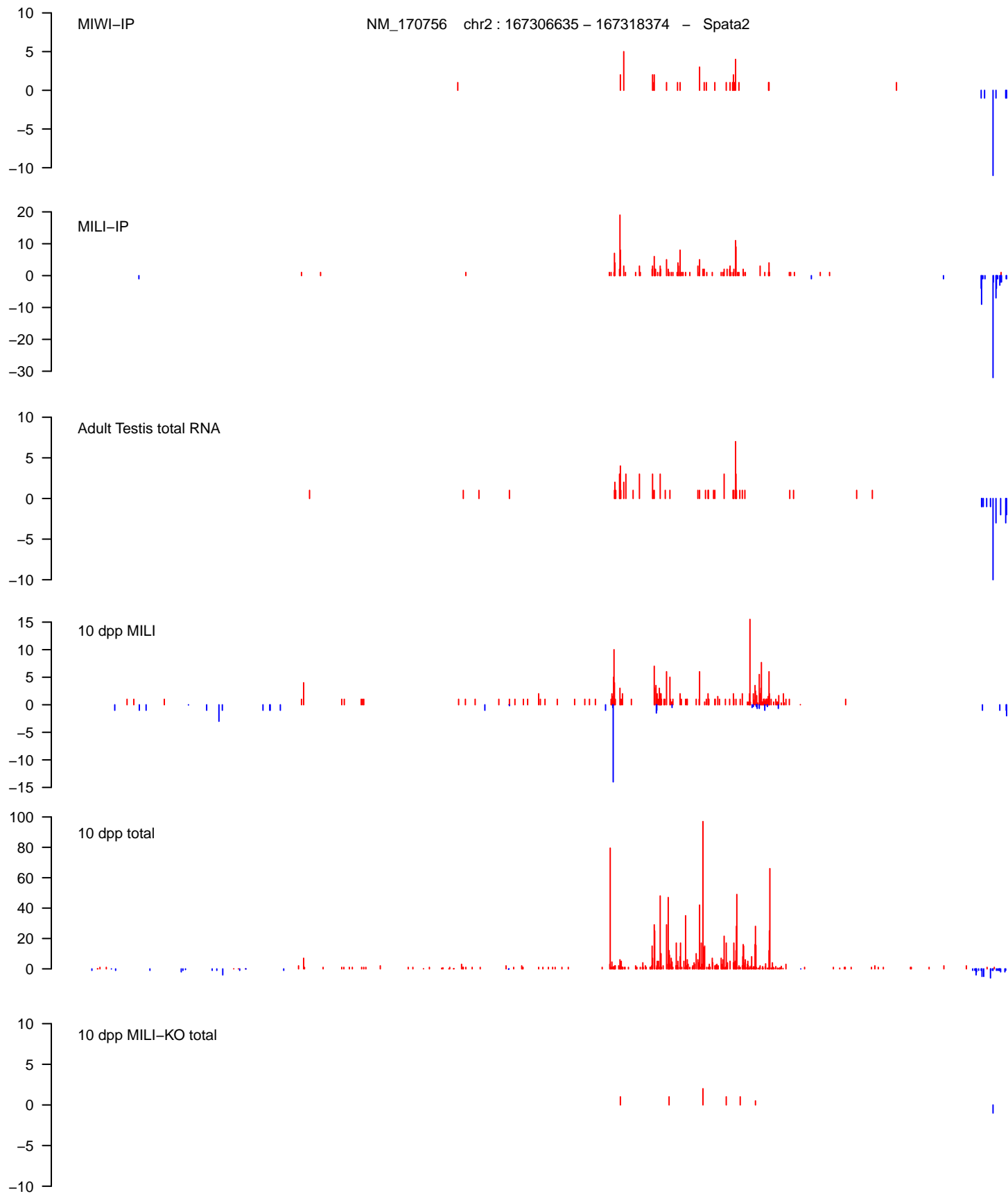


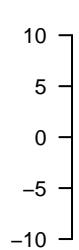


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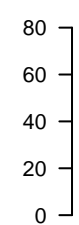


NM\_030609 chr13 23855536 23856283 + Hist1h1a

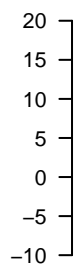




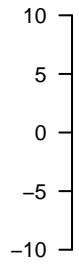
MIWI-IP



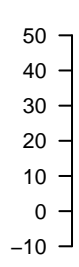
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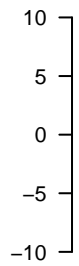
Adult Testis total RNA



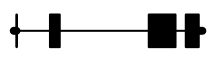
10 dpp MILI

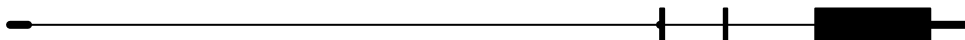
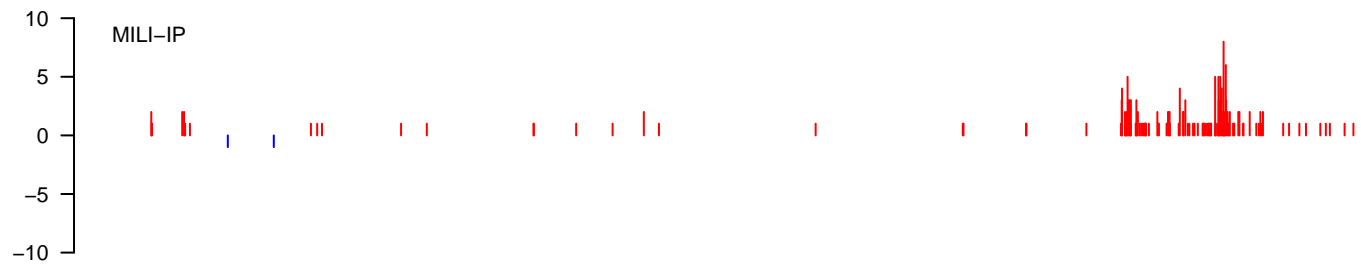
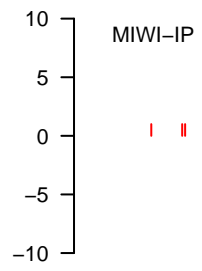


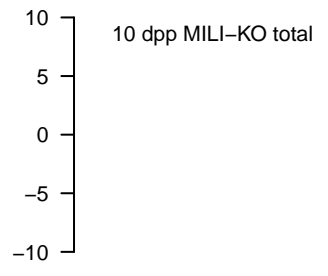
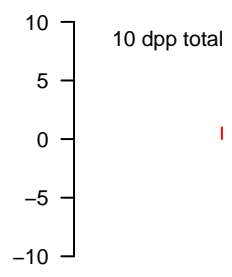
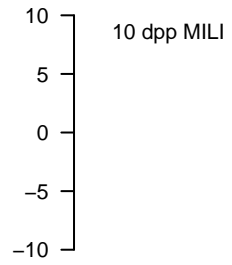
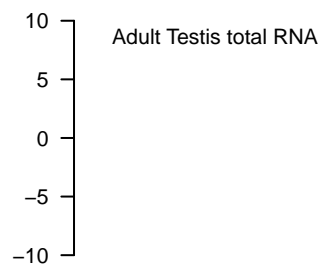
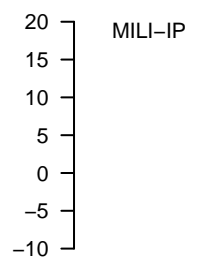
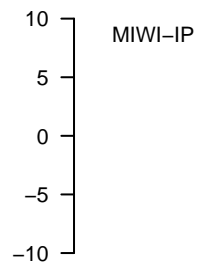
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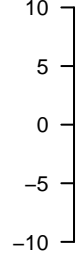
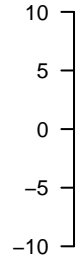
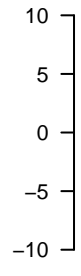
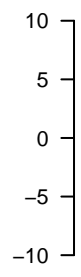
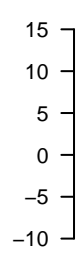
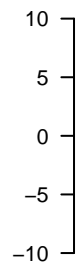


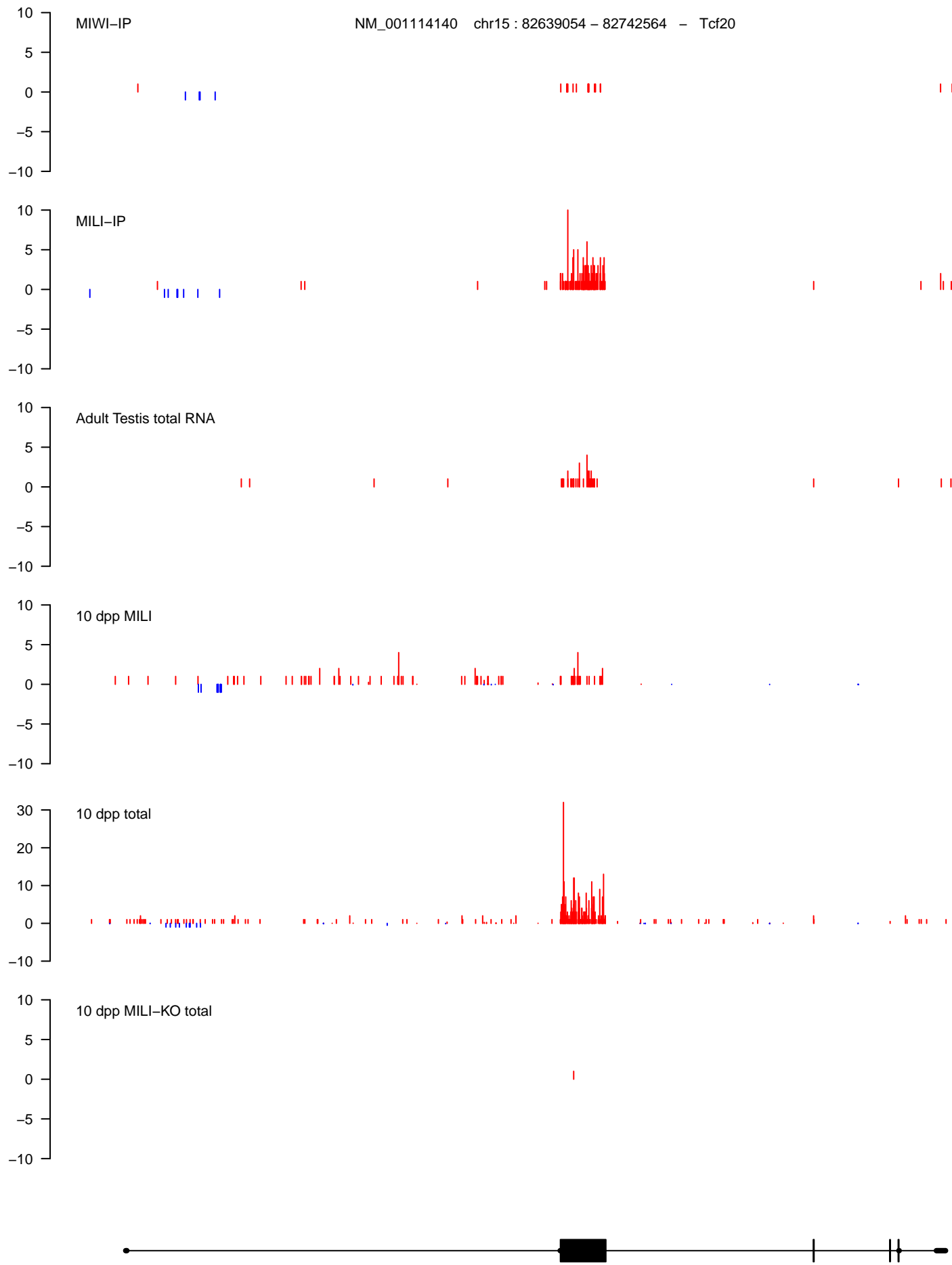
10 dpp MILI-KO total



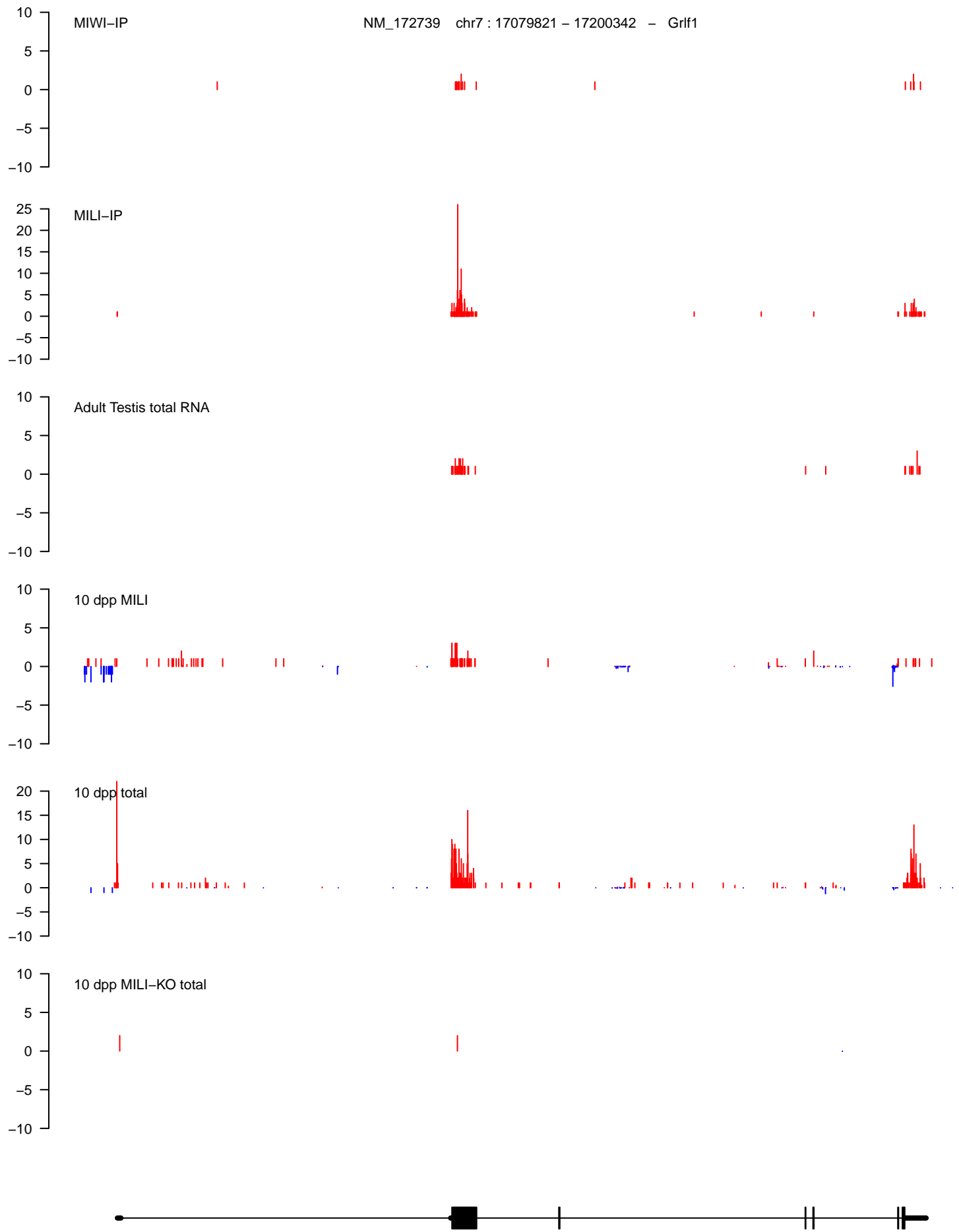


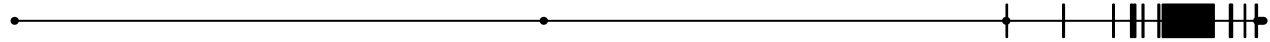
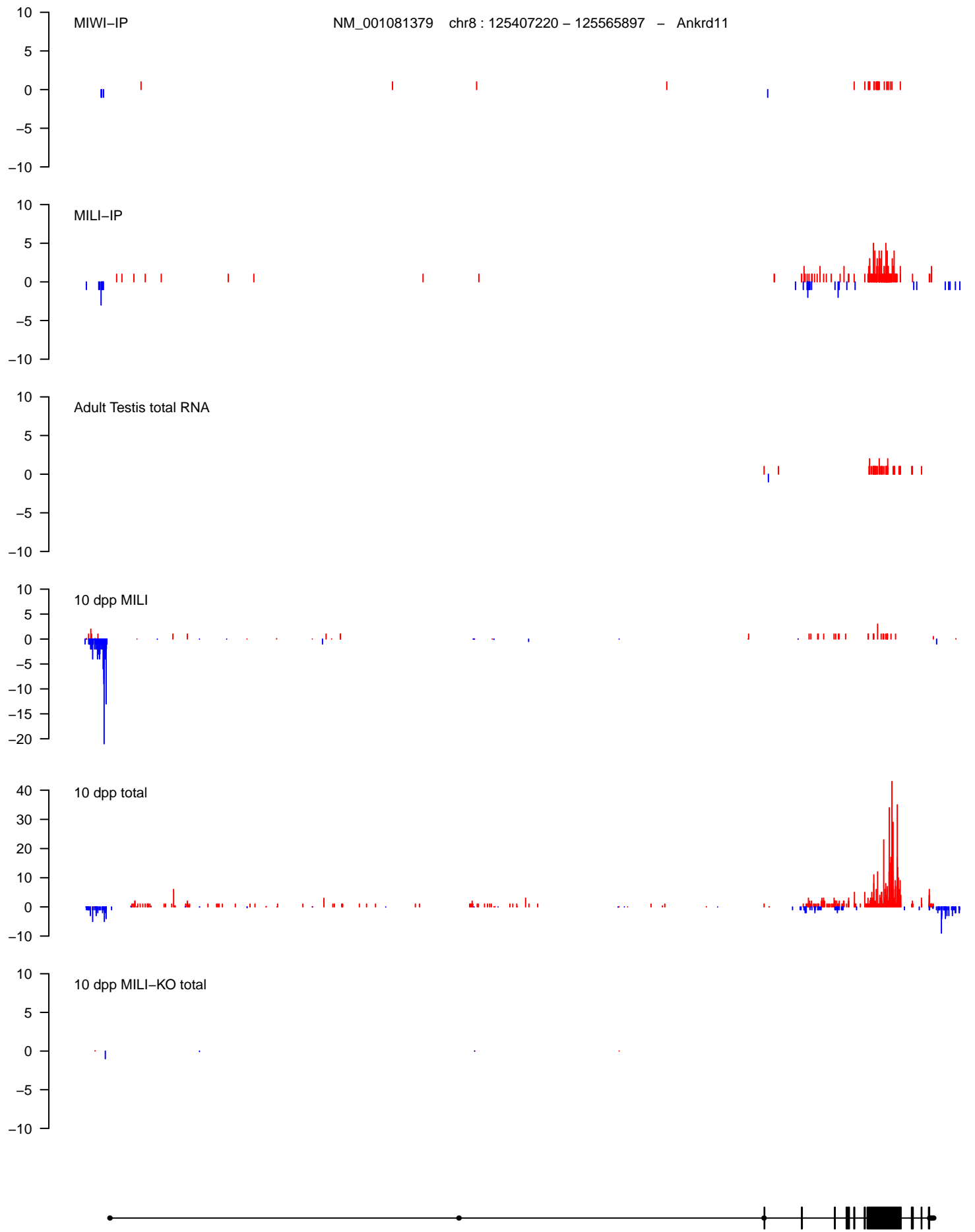


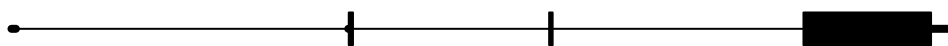
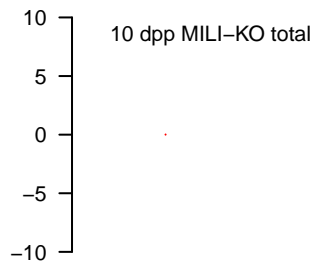
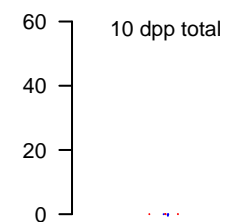
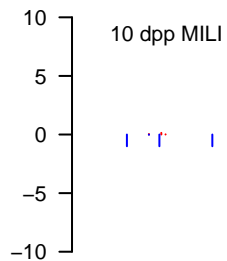
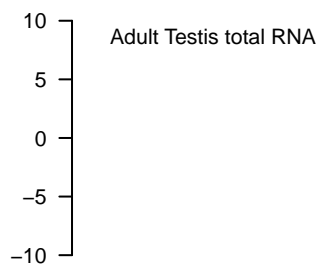
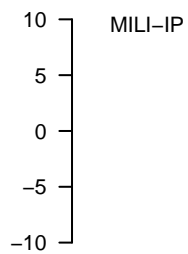
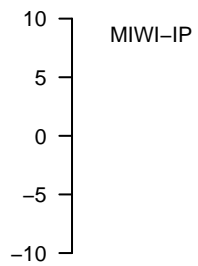




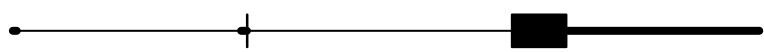
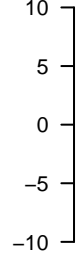
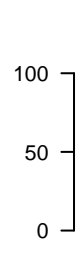
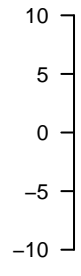
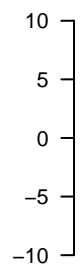
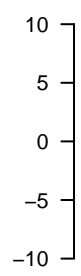
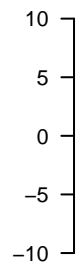






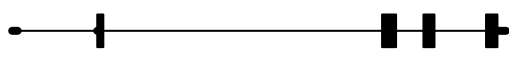
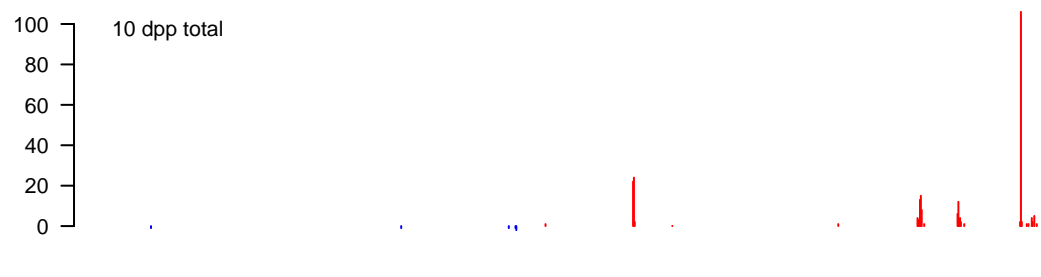
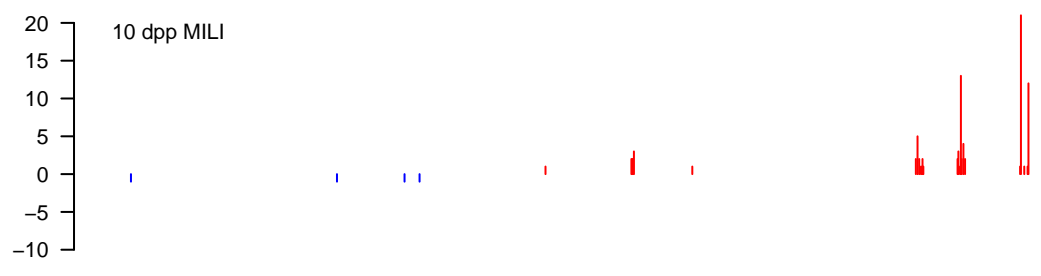
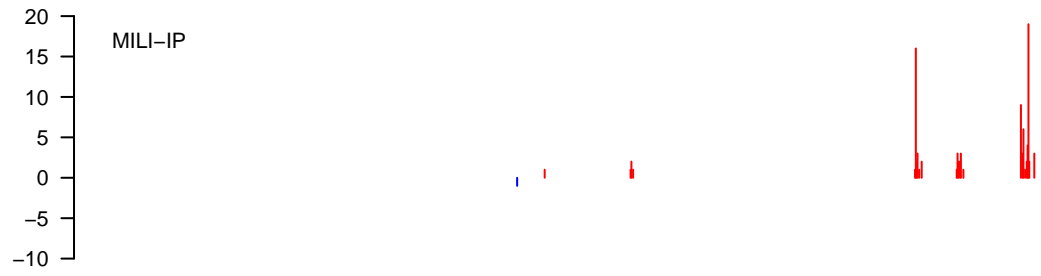
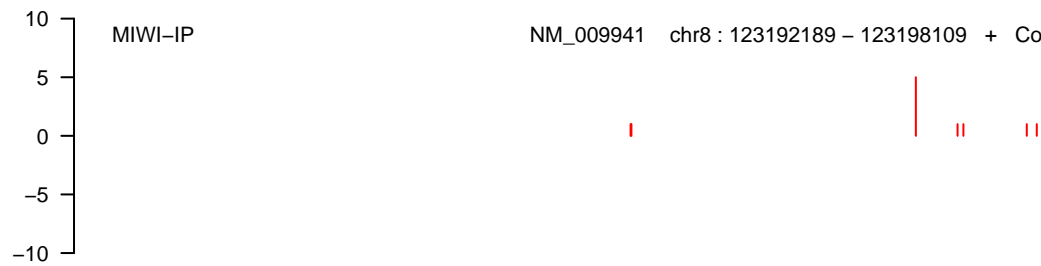


NM\_001009949 chr4 : 45408795 – 45421633 – Mcart1



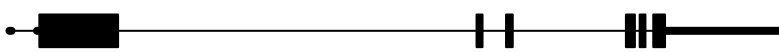
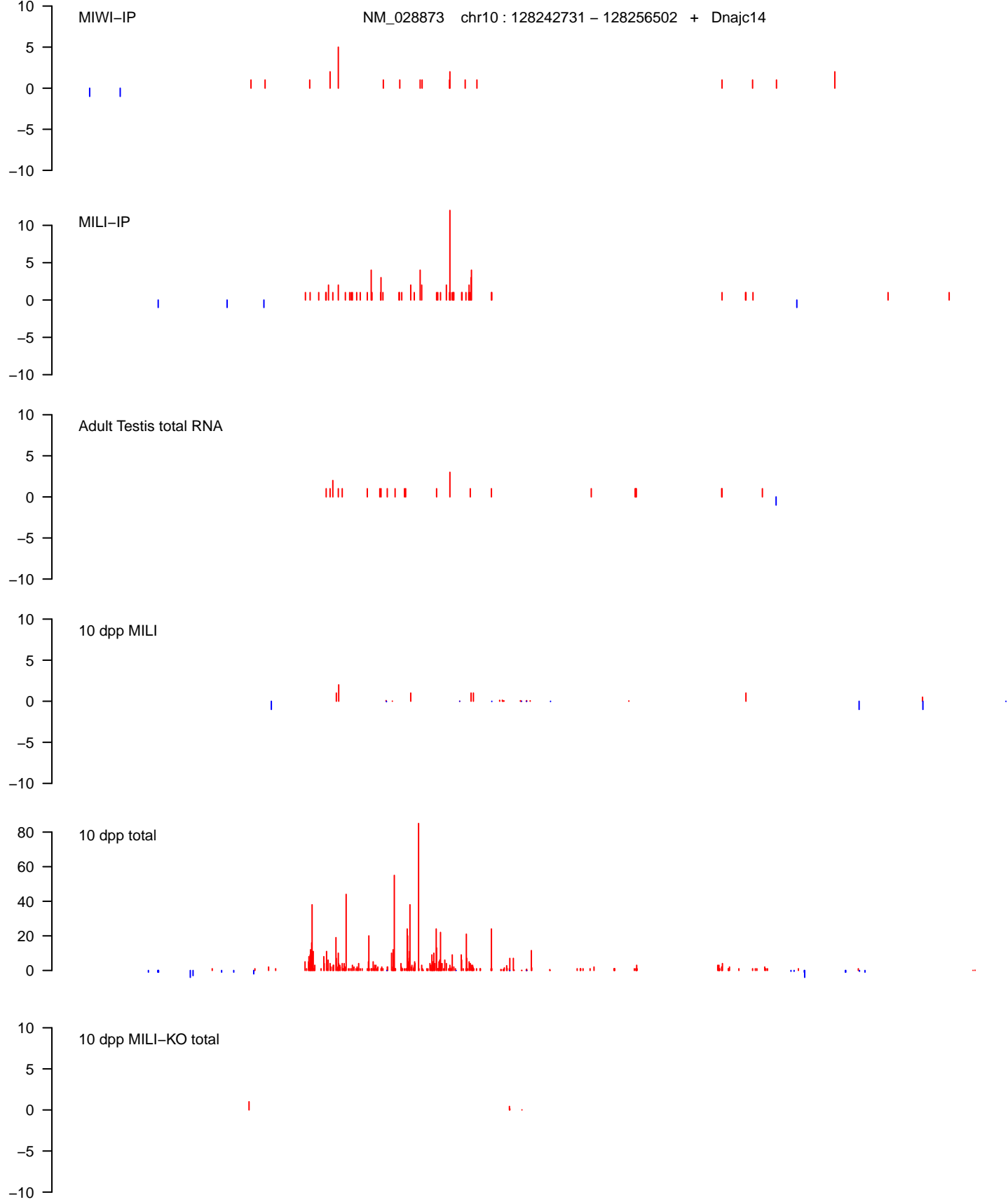
NM\_001009949 chr4 45408795 45421633 – Mcart1

NM\_009941 chr8 : 123192189 – 123198109 + Cox4i1

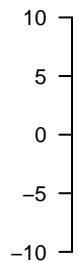
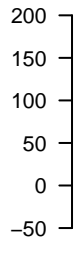
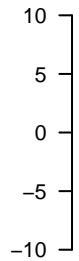
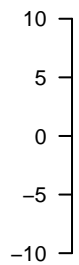
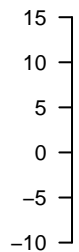
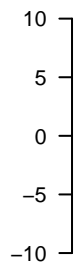


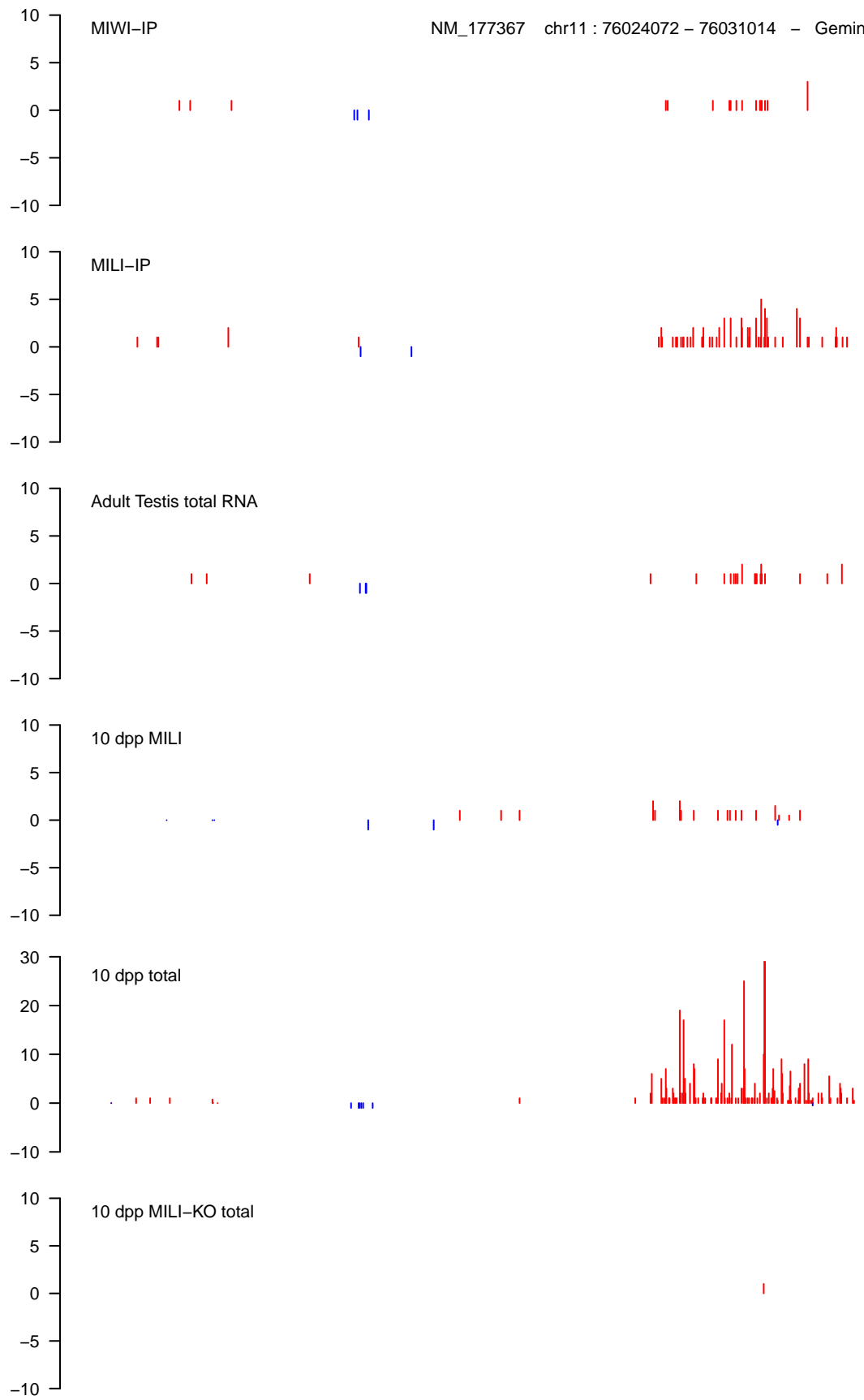
NM\_009941 chr8 123192189 123198109 + Cox4i1

NM\_028873 chr10:128242731 - 128256502 + Dnajc14



NM\_028873 chr10 128242731 128256502 + Dnajc14

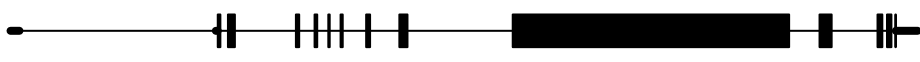
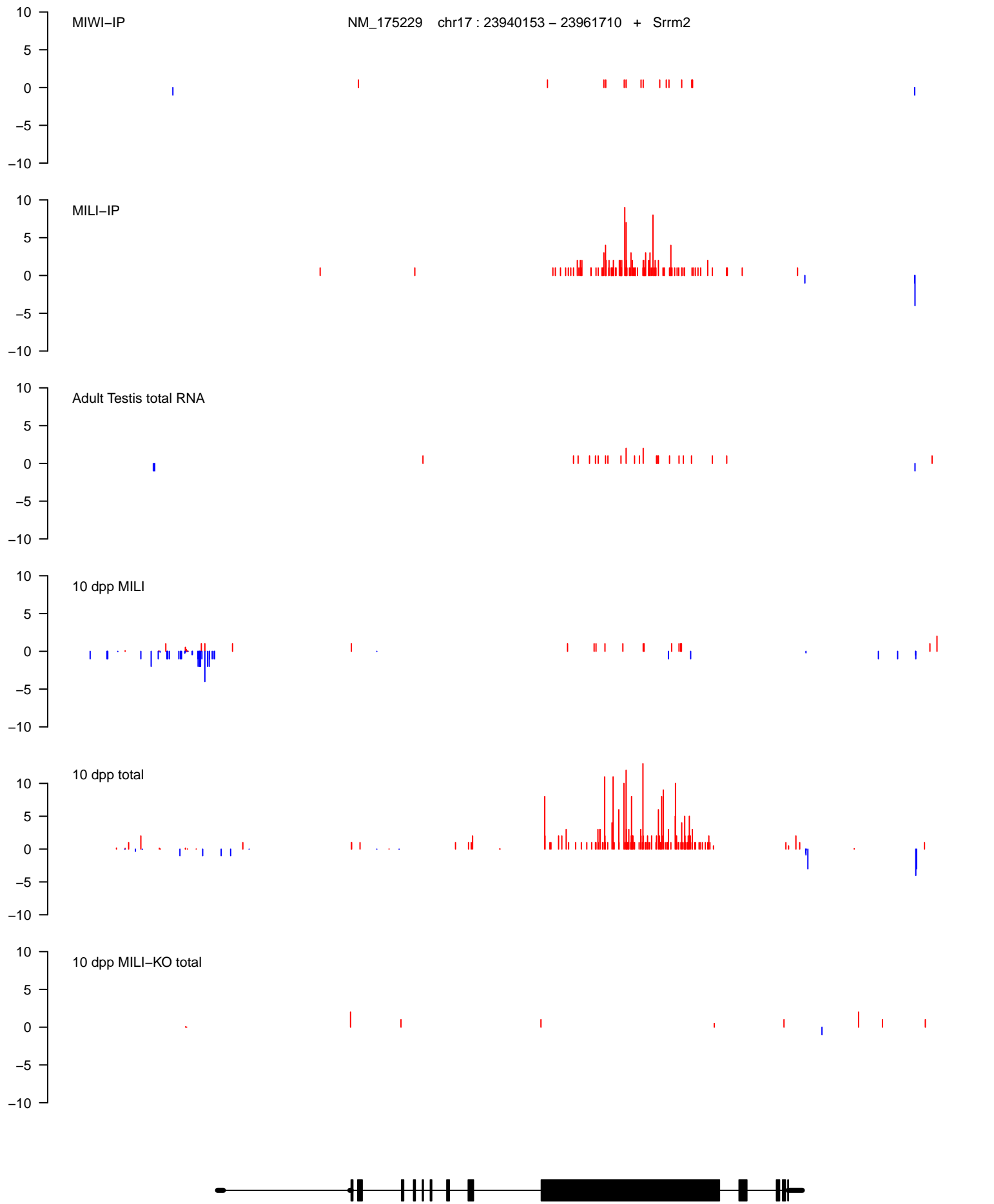




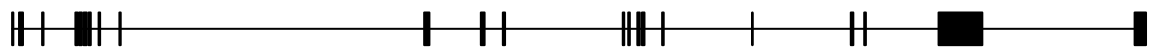
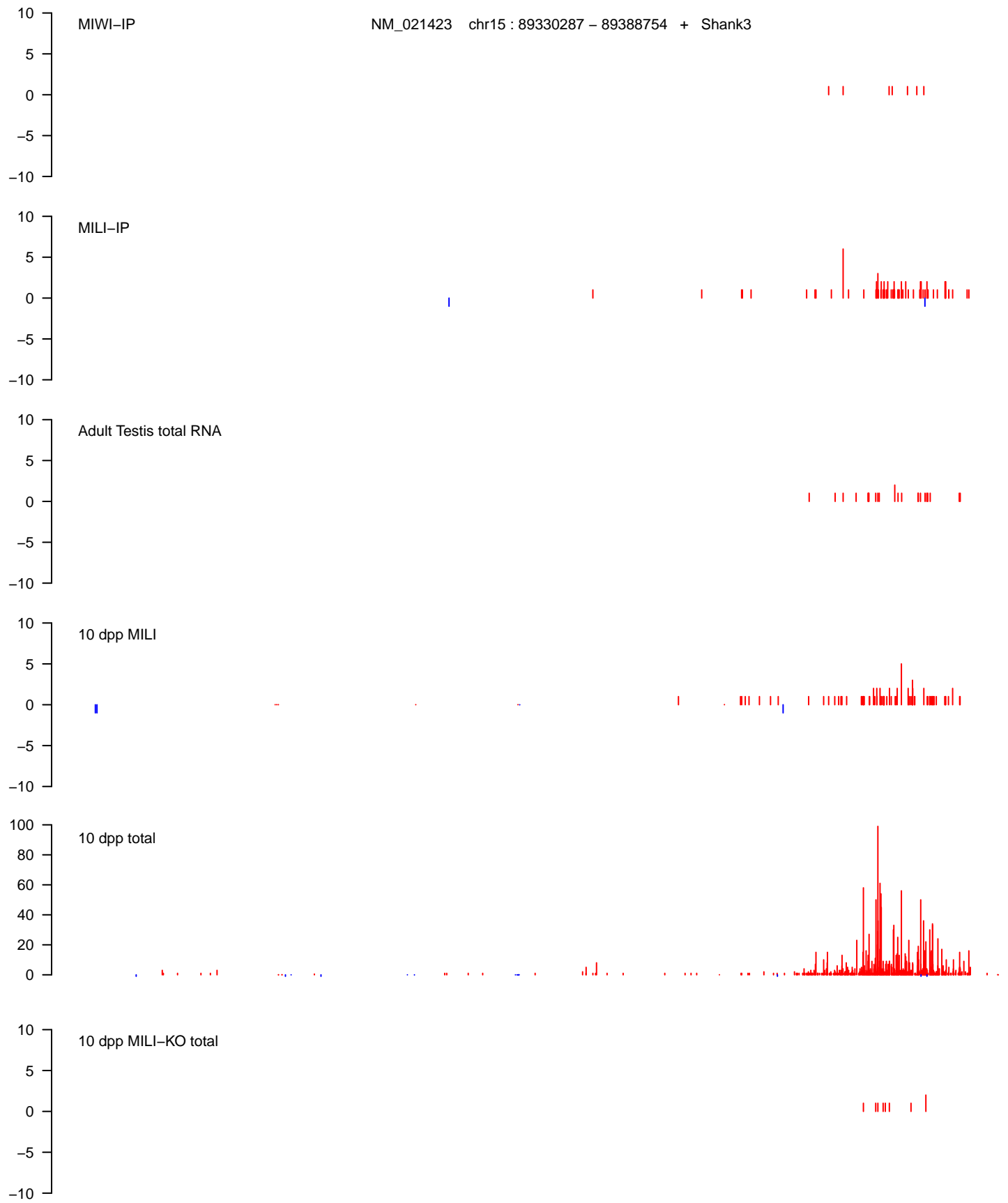
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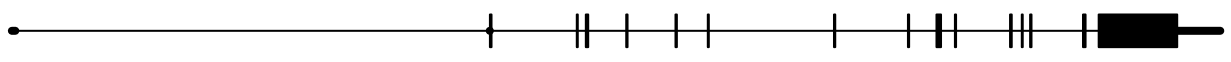
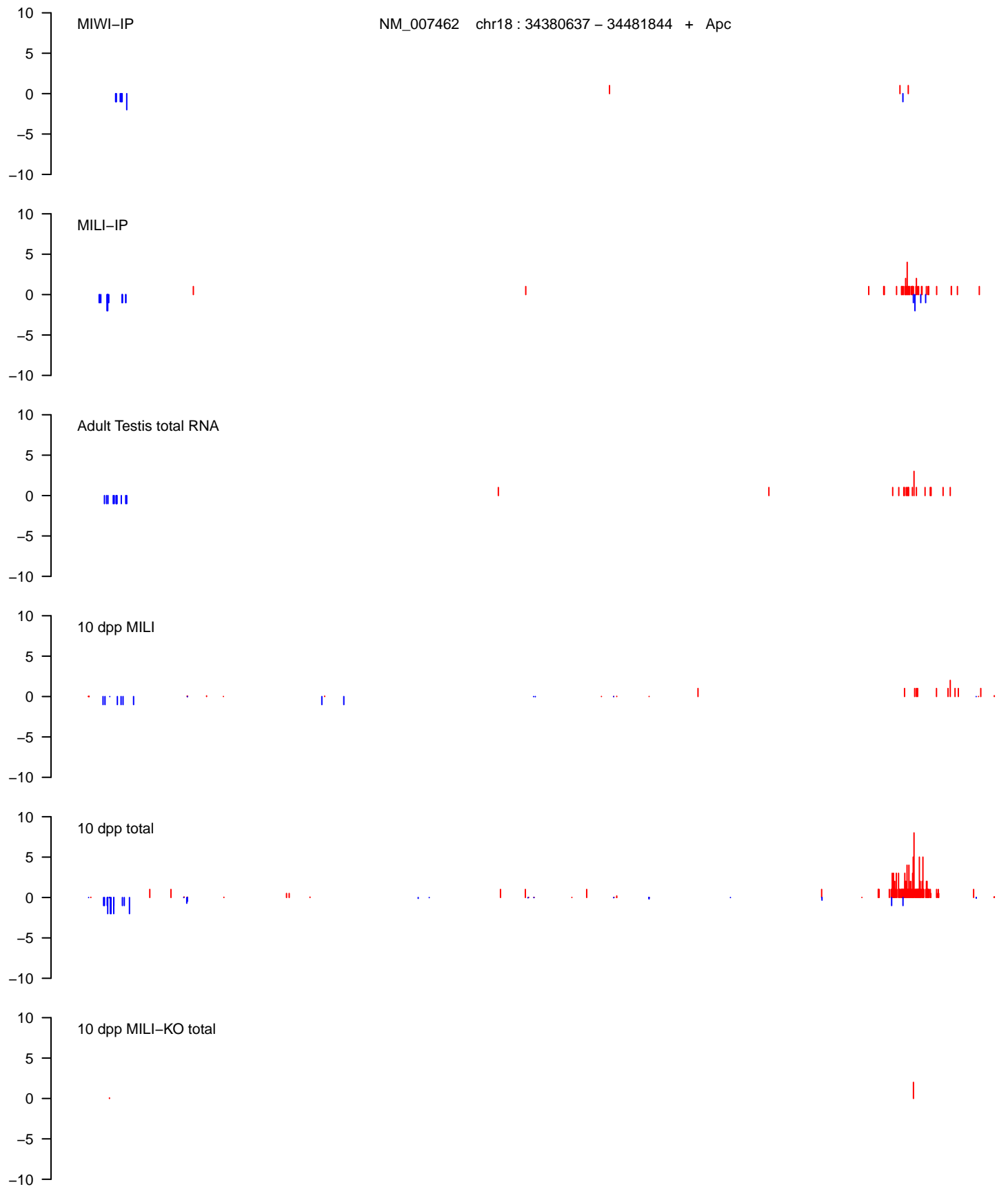


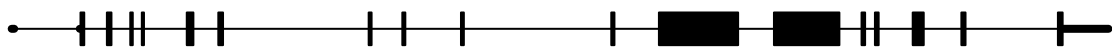
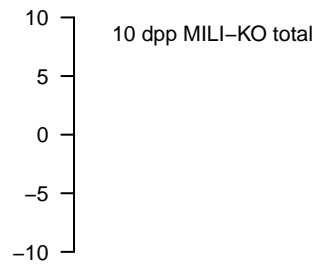
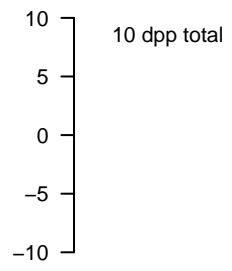
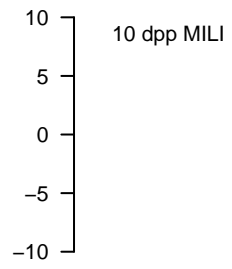
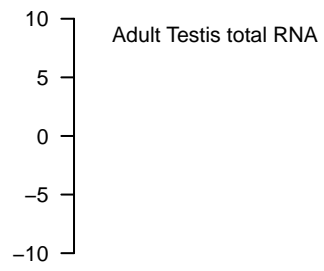
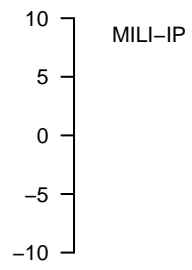
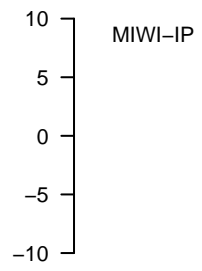
NM\_175229 chr17 : 23940153 – 23961710 + Srrm2

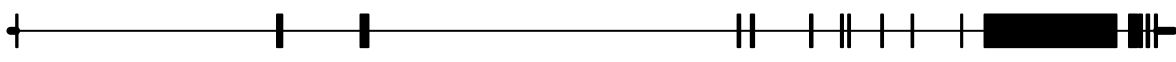
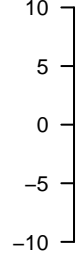
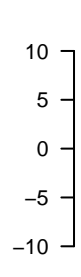
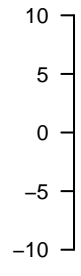
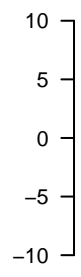
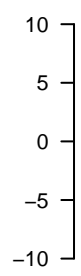
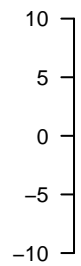


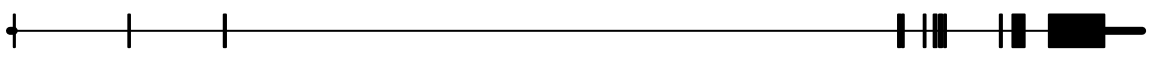
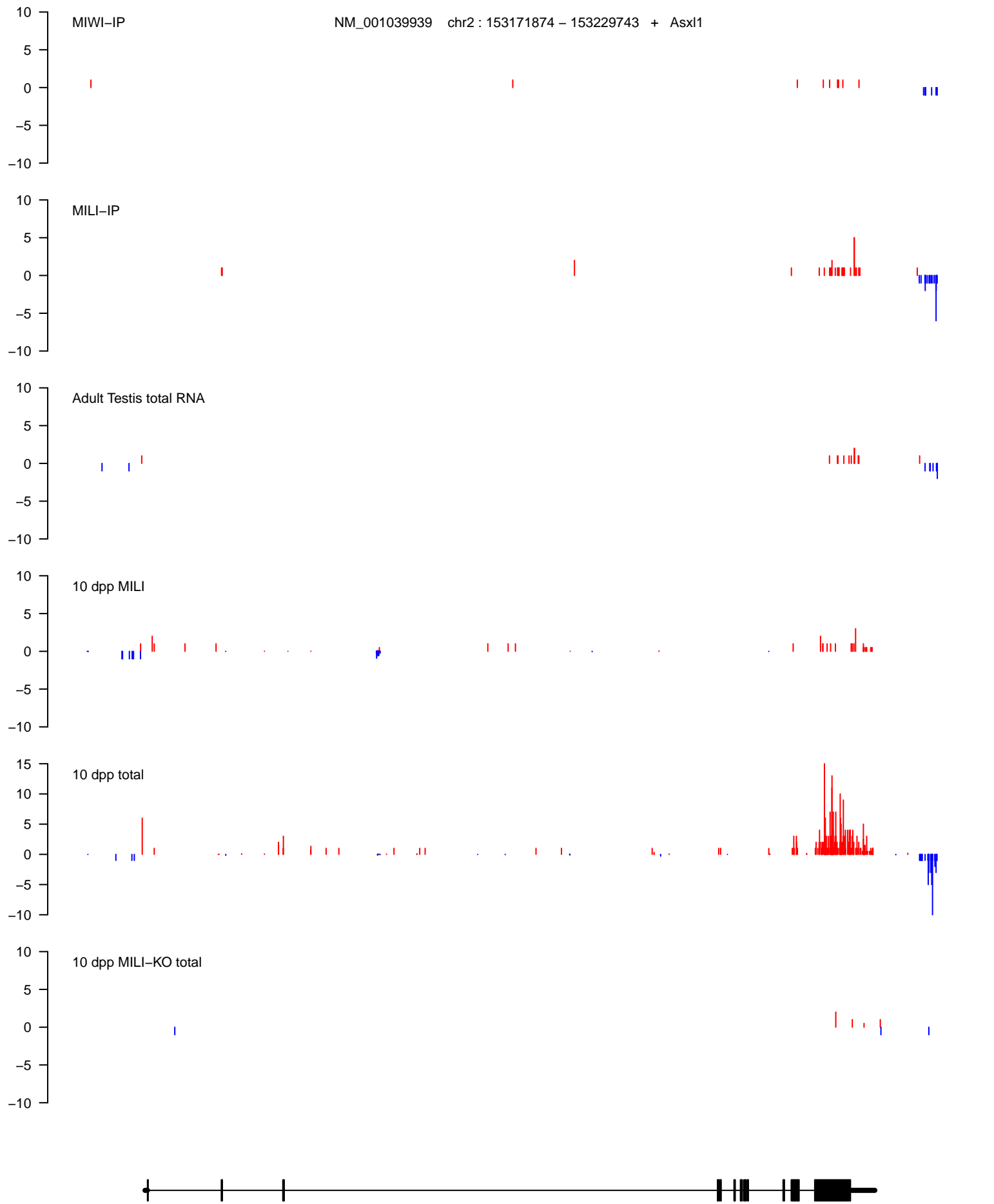
NM\_175229 chr17 23940153 23961710 + Srrm2

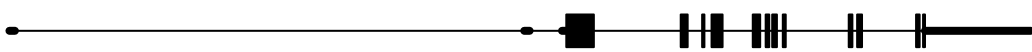
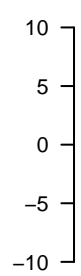
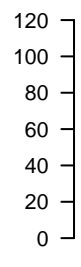
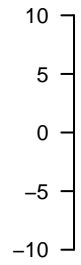
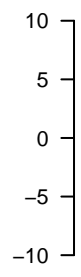
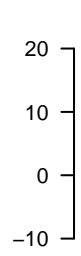
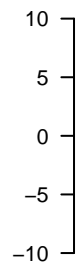


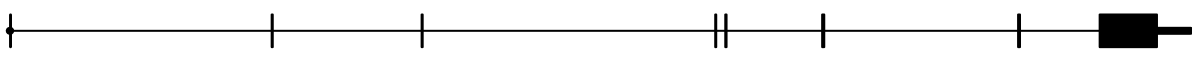
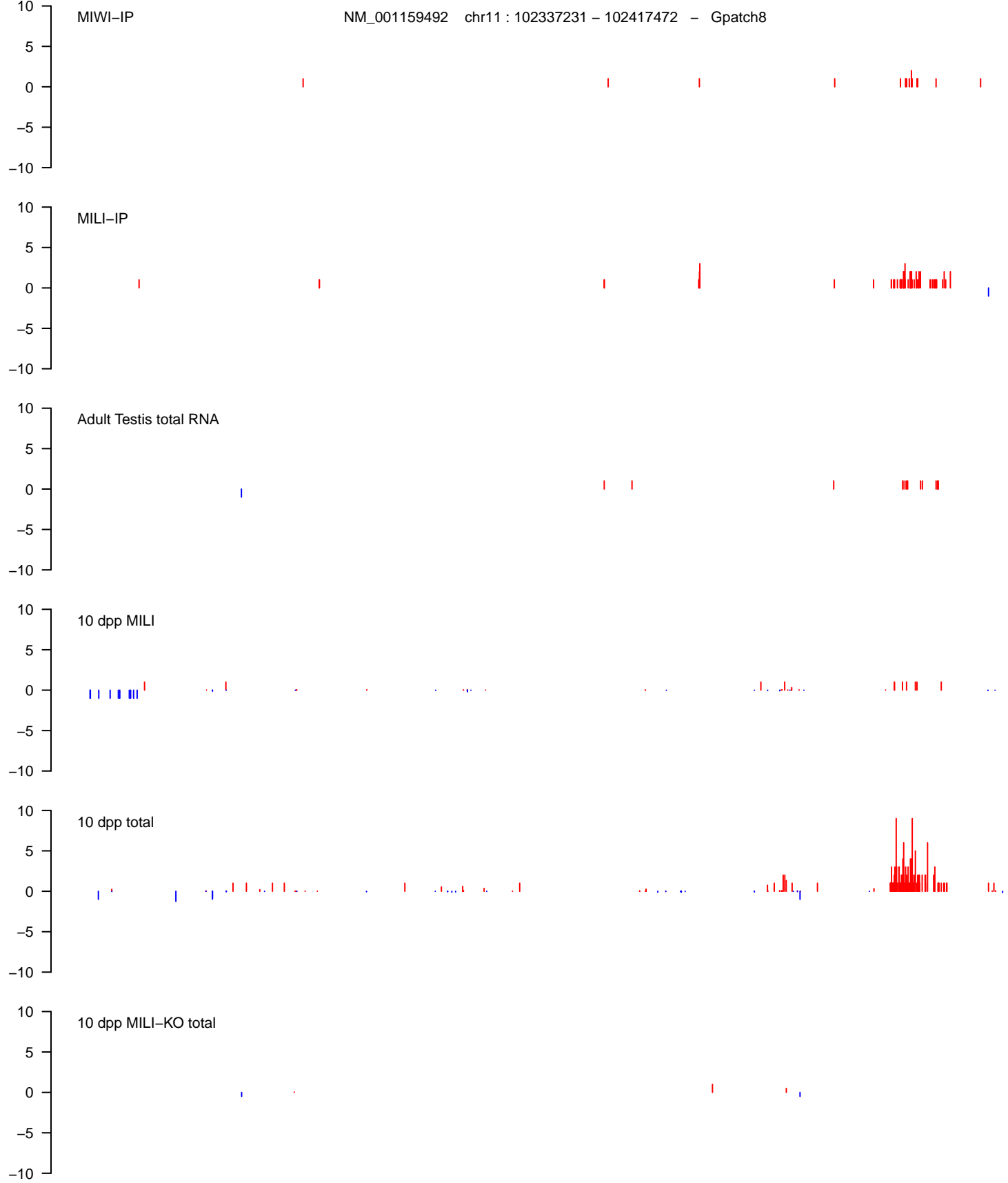




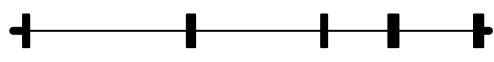
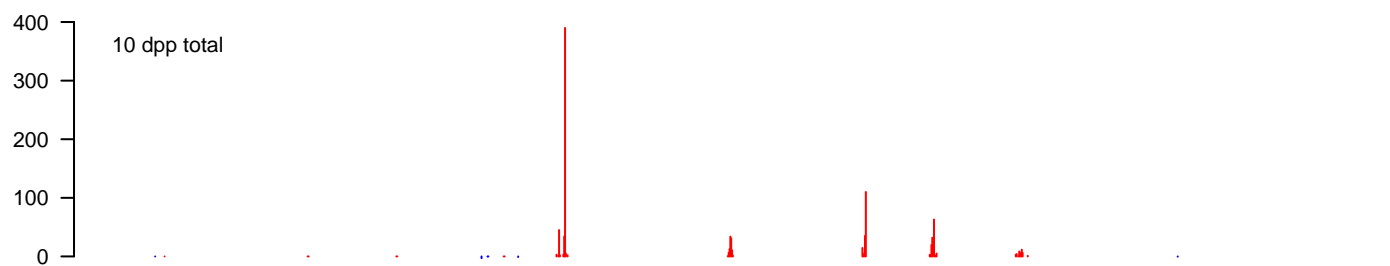
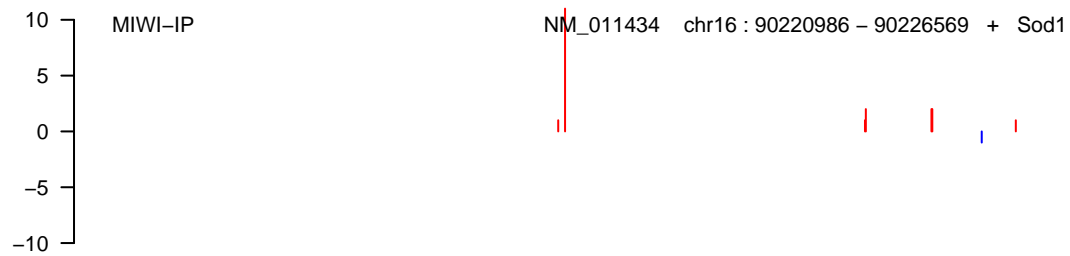






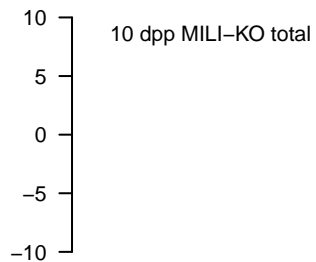
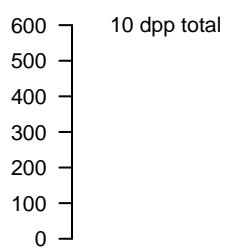
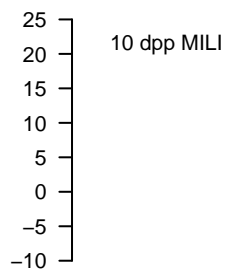
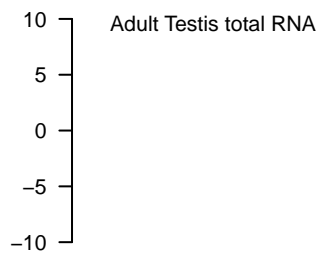
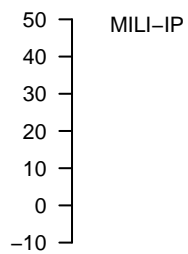
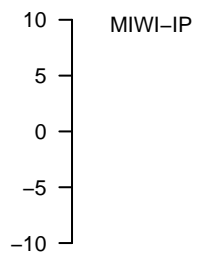






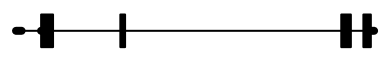
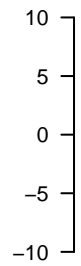
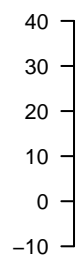
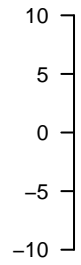
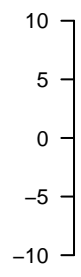
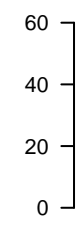
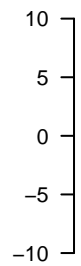
NM\_011434 chr16 90220986 90226569 + Sod1

NM\_018853 chr9: 61761089 – 61762317 – Rplp1



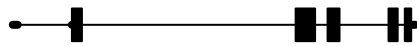
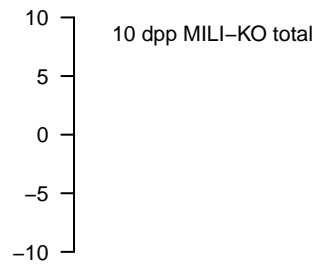
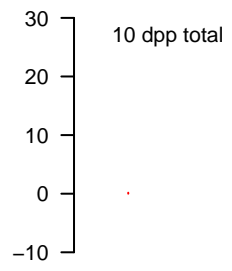
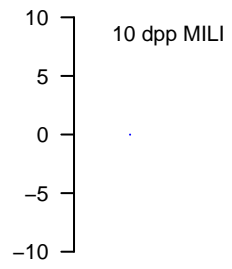
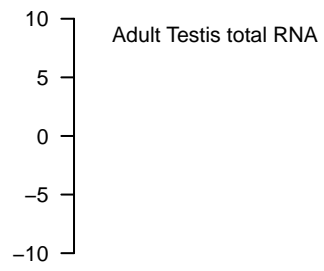
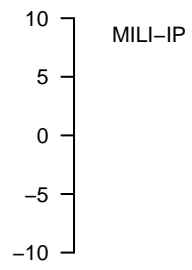
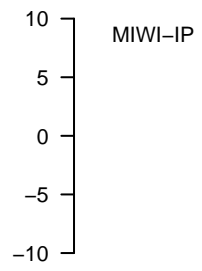
NM\_018853 chr9 61761089 61762317 – Rplp1

NM\_026020 chr7 : 148633548 – 148637241 + Rplp2

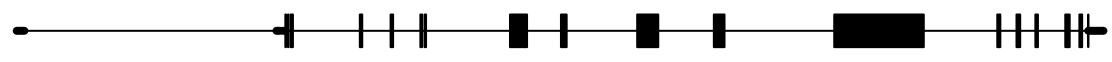
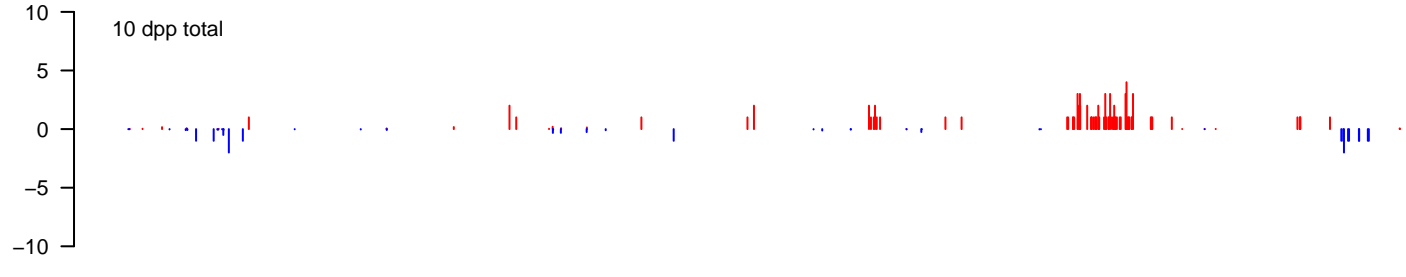
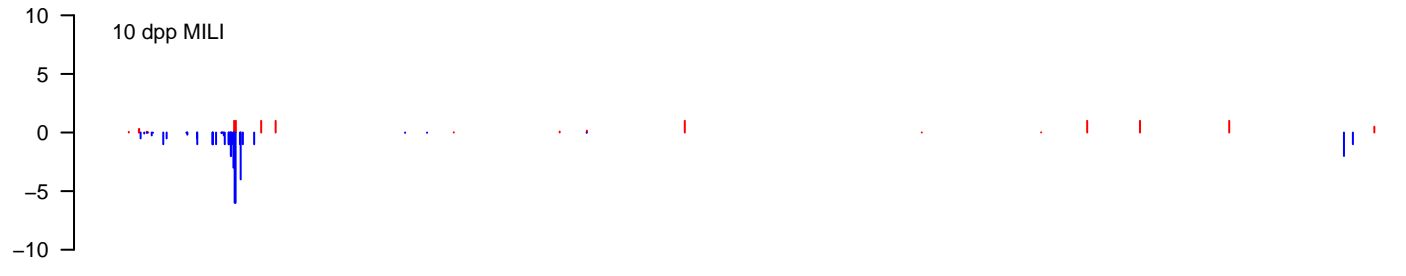
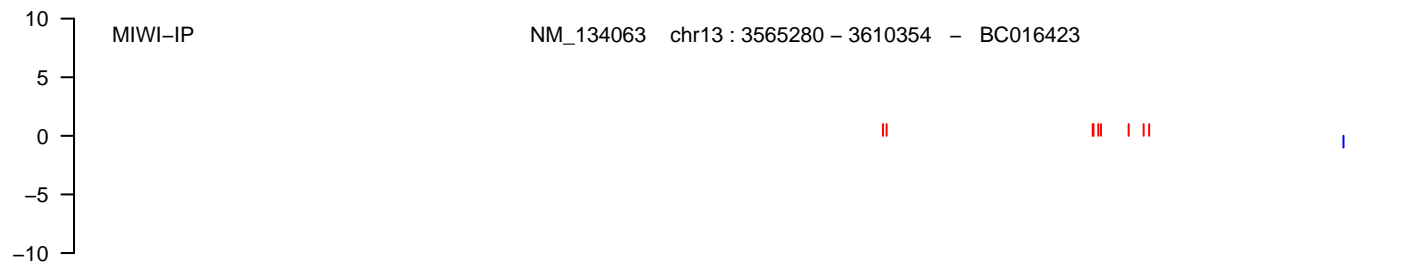


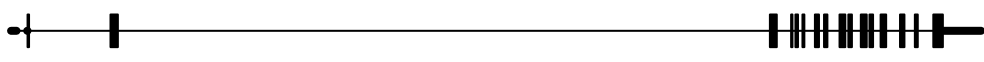
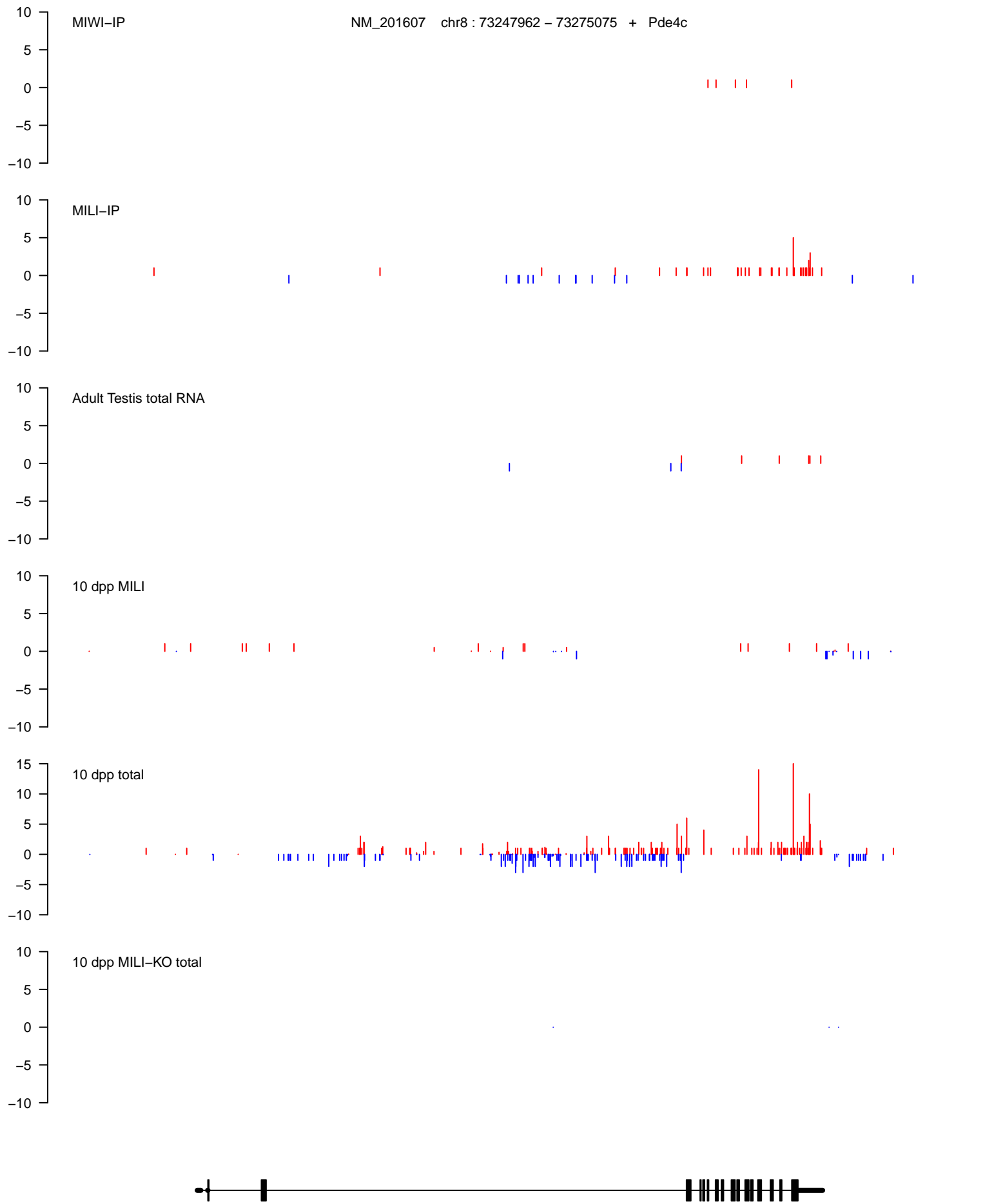
NM\_026020 chr7 148633548 148637241 + Rplp2

NM\_009095 chr7 : 13507683 – 13512034 + Rps5

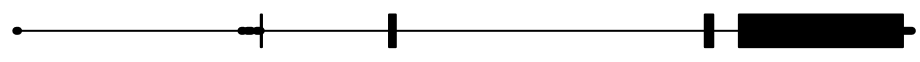
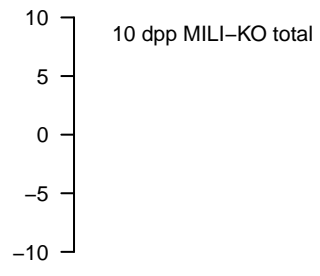
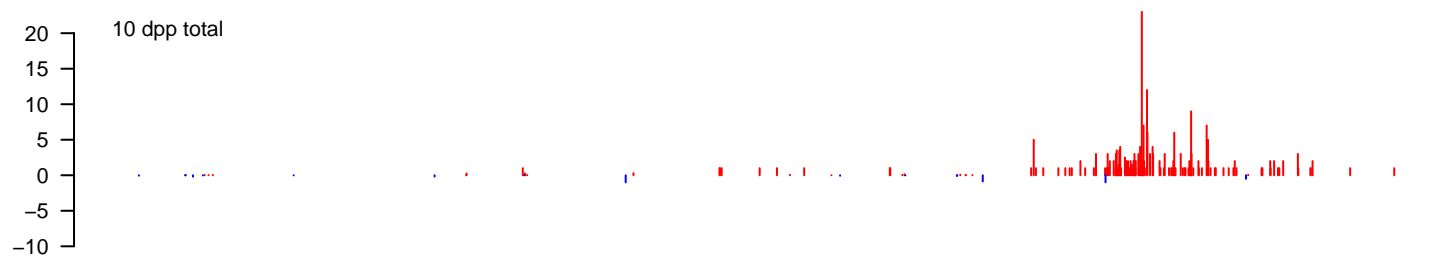
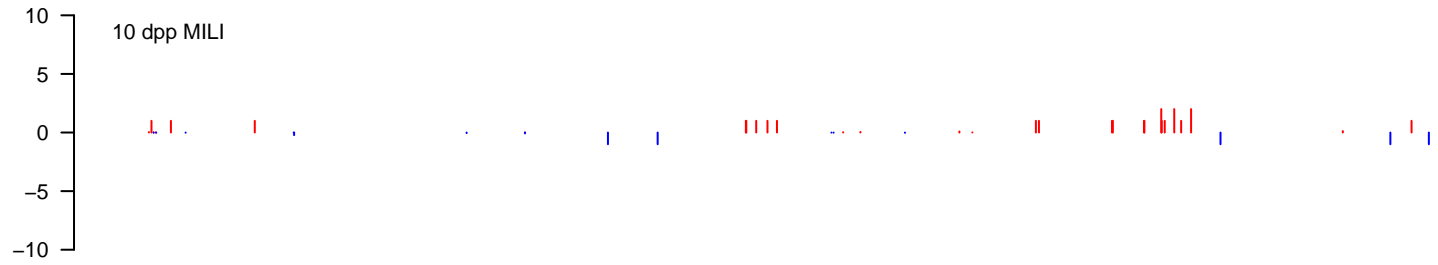
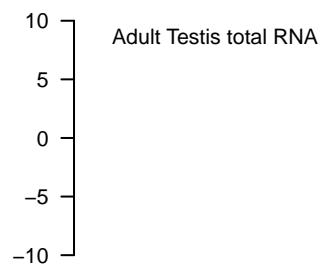
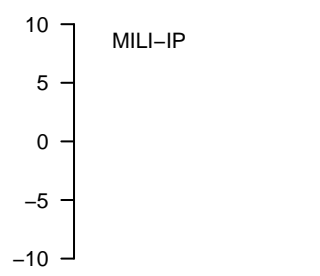
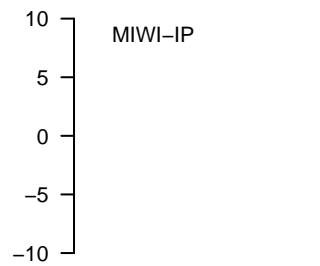


NM\_009095 chr7 13507683 13512034 + Rps5





NM\_198048 chr7 : 28284342 – 28305060 + Prx



NM\_198048 chr7 28284342 28305060 + Prx

Table S1. cis-NAT-siRNAs in Dmel OSS (Library s2, s6, s7 &amp; s8) - overlap category "3' OVERLAP OVER SIN"

Rank(21-mers in overlap	NAT #	Plus Strand Gene	Minus Strand Gene	Gene Region
1	653	Ptp99A	CG2321	chr3R:25241350-25314987
2	204	CG7737	skf	chr2R:7110376-7120056
3	90	SCAR	piwi	chr2L:10976774-10987416
4	567	CG5148	cher	chr3R:12914013-12944863
5	463	CG40351	MED21	chr3LHet:594458-601422
6	602	cenB1A	CG31365	chr3R:18944125-18952139
7	431	AGO2	CG7739	chr3L:15547217-15556163
8	98	CG14945	Jhl-21	chr2L:12049423-12055982
9	144	Pomp	szar	chr2L:20787649-20797040
10	238	unc-5	Pms2	chr2R:11237659-11259021
11	375	CG5146	spo	chr3L:5576789-5585677
12	448	fbl	CG33969	chr3L:20377531-20386648
13	440	Nrt	CG13025	chr3L:16759174-16772815
14	135	lok	vlS	chr2L:20061477-20065675
15	621	mld	Syx18	chr3R:20411385-20451302
16	739	CG4756	Rrp45	chrX:16681789-16685184
17	513	Cap-H2	TfllFbeta	chr3R:6587032-6593668
18	133	ref(2)P	CG10337	chr2L:19542446-19546914
19	903	CG5104	CG4825	chr3L:20514109-20519281
20	718	CG11750	hop	chrX:11253270-11262130
21	126	CG10431	CG10641	chr2L:18974710-18987276
22	285	mago	Magi	chr2R:17016084-17030067
23	646	CG5508	Mes-4	chr3R:23750915-23763571
24	443	fal	pip	chr3L:19287869-19330699
25	723	CG32654	CG1463	chrX:12490106-12505632
26	635	T48	Ets97D	chr3R:22707456-22738608
27	177	tsu	Mys45A	chr2R:4998306-5001458
28	236	CG8079	Fs	chr2R:11105886-11129084
29	210	Cct5	CG8862	chr2R:8062281-8066035
30	256	CG4853	CG11419	chr2R:13401710-13405688
30	154	SdhB	CG15237	chr2R:2695116-2697234
32	205	Vhl	CG9062	chr2R:7167231-7171461
33	545	CG33332	CycC	chr3R:10712202-10715915
34	327	Pof	Mmp1	chr2R:20556901-20574897
35	489	lds	dsx	chr3R:3746156-3793130
36	683	CG4025	CG16903	chrX:1971015-1974416
36	66	CG7224	Wwox	chr2L:7998934-8004267
38	363	CG12016	CG11526	chr3L:3319557-3328871
39	166	mus205	CG1553	chr2R:3680757-3693904
40	617	BRWD3	CG5728	chr3R:20144741-20159036
40	506	dmt	hyd	chr3R:5536862-5551333
42	404	CG3529	CG3448	chr3L:9439975-9444658
43	634	gro	exo84	chr3R:21867432-21877957
44	460	Ddx1	CG11523	chr3L:22256469-22259773



## Supplemental Data

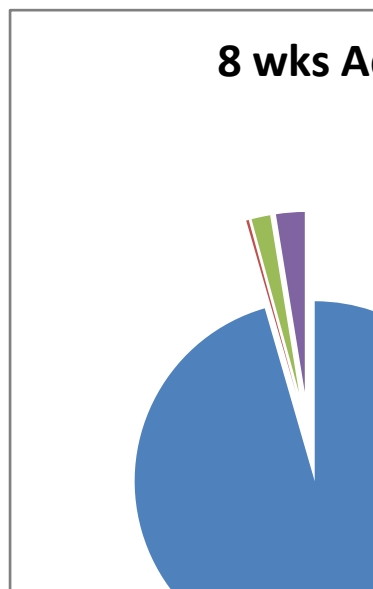
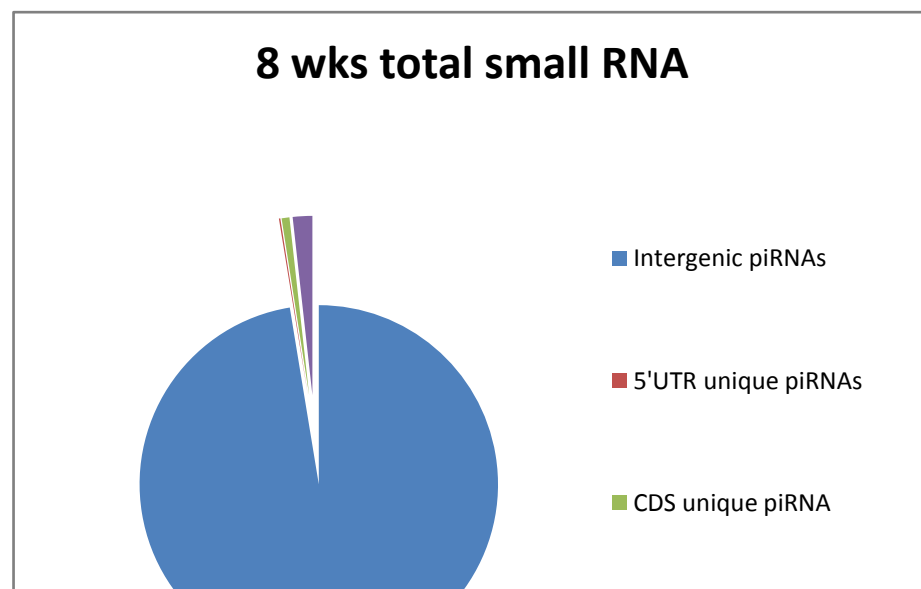
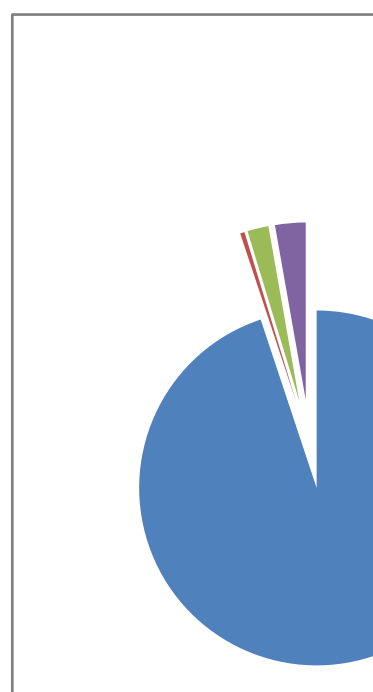
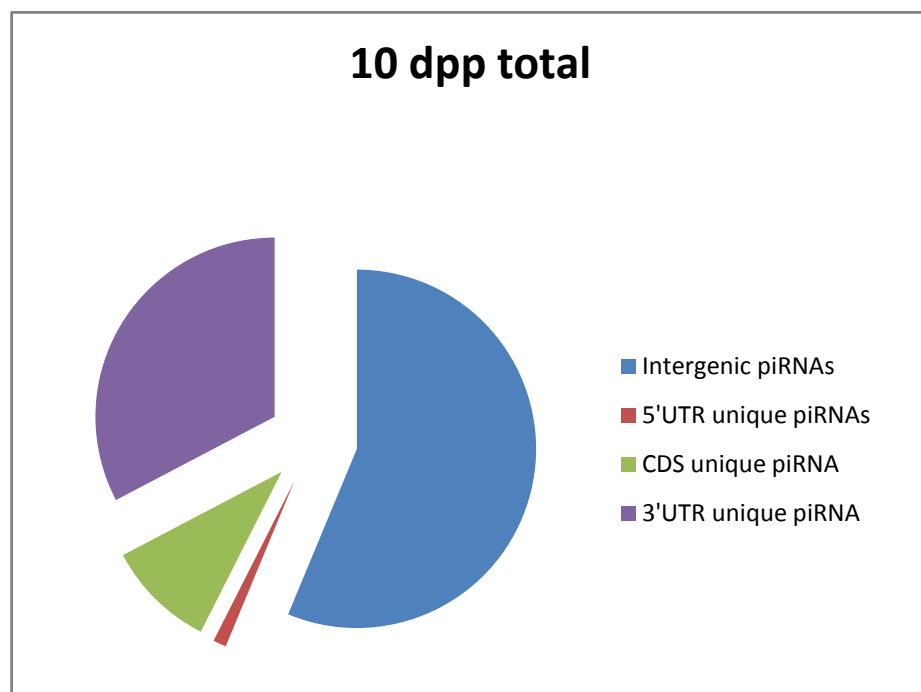
Gene	Locus	Chromosome	Strand	Annotated Start
tj	chr2L:19464444-1946788	2L	+	19464762
brat	chr2L:19133806-1917475	2L	+	19133806
larp	chr3R:24143896-2415400	3R	-	24143896
dm	chrX:3267216-3283137	X	+	3267216
CG6424	chr2R:13590749-1360683	2R	-	13590842
l(2)gl	chr2L:9836-21372	2L	-	9836
CG10289	chr3L:6159402-6166966	3L	-	6162651
jog	chrX:19724188-19746084	X	-	19727372
CG17514	chr2RHet:2775860-28212	2RHet	+	2775860
CG32000	chr4:152850-163754	4	+	152850
CG9821	chr3R:4640282-4646386	3R	-	4643363
Klp10A	chrX:11023366-11031056	X	-	11024269
Sema-1a	chr2L:8543333-8671239	2L	+	8543333
chrb	chr3L:11480660-1149218	3L	+	11480660
CycG	chr3R:27422362-2743838	3R	-	27424172
kel	chr2L:18128495-1813821	2L	-	18129330
Tis11	chrX:12553395-12577219	X	+	12553395
Nipped-A	chr2R:1065471-1138553	2R	-	1065506
CG41099	chr3RHet:1685102-17060	3RHet	-	1685102
Patr-1	chr3R:12869290-1287415	3R	+	12869290
jumu	chr3R:6175906-6187403	3R	+	6175906
unk	chr3R:18975368-1898359	3R	-	18977275
Pi3K21B	chr2L:297882-305225	2L	+	297882
hdc	chr3R:26103656-2619303	3R	+	26103656
Mitf	chr4:1219484-1228193	4	+	1219484
CG32654	chrX:12490106-12504549	X	+	12490106
nmo	chr3L:7972149-8046455	3L	+	7972149
cue	chr3L:1502551-1517238	3L	-	1503213
CG33129	chr2L:10964891-1097027	2L	-	10965140
Art4	chr3R:5808300-5811777	3R	-	5808902
CG3164	chr2L:122615-130791	2L	-	122615
jim	chr3L:22788253-2282648	3L	-	22789076
Vha16	chr2R:2512744-2520633	2R	-	2514418
Hrb27C	chr2L:6920710-6931145	2L	+	6920710
Khc-73	chr2R:11403283-1141974	2R	-	11403283
CG5521	chr3R:22792463-2280365	3R	+	22793166
CG40084	chr2RHet:3105718-31796	2RHet	-	3105718
Tif-IA	chr2L:22249878-2225826	2L	+	22249878
Baldspot	chr3L:16641275-1665472	3L	-	16641920
Lk6	chr3R:7576600-7591468	3R	-	7578506
smi21F	chr2L:1114651-1128953	2L	-	1114652
Bsg	chr2L:8083422-8110561	2L	+	8083422
CG6701	chr2R:9860477-9866564	2R	-	9860494
emc	chr3L:749406-753505	3L	+	749406
CG11319	chr2L:6568384-6601066	2L	-	6568390
lola	chr2R:6369262-6430767	2R	-	6369712
scyl	chr3L:11245409-1124932	3L	+	11245409
Dcr-2	chr2R:13462021-1346901	2R	-	13462484

Table S3. Reannotation of previously published classification of piRNA clusters during mouse sperm:

Fetal piRNA Clusters from Kuramochi-miyagawa et al, 2008 (Top 205)			Pre-pachyt
Cluster rank	Annotation	mm9 genomic coordinates	Cluster rank
4	genic	chr5:143573022-143772011	2
5	genic	chr7:20338183-20529572	5
15	genic	chr1:157,916,594-157,932,790	6
53	genic	chr13:23839051-23856005	7
62	genic	chr2:130019360-130103781	8
70	genic	chr5:23206473-23221773	9
74	genic	chr11:74644873-74660175	10
76	genic	chr9:108409137-108471143	11
81	genic	chr19:5388966-5525803	12
86	genic	chr19:10057229-10059483	13
88	genic	chr10:127521201-127527172	15
90	genic	chr6:85394957-85434467	16
91	genic	chr13:23663702-23677482	17
93	genic	chr10:79255497-79326913	18
103	genic	chr2:164247855-164356383	20
107	genic	chr15:88691752-88699597	21
108	genic	chr9:64022690-64026295	22
110	genic	chr7:13507239-13616054	23
111	genic	chr11:95561845-95634213	24
116	genic	chr16:4613535-4651224	25
118	genic	chr17:23945099-23965905	30
123	genic	chr7:134913749-135025389	32
140	genic	chr3:58219450-58221232	33
141	genic	chr8:123191823-123198033	34
145	genic	chr7:52706953-52715130	35
147	genic	chr17:34040985-34089514	36
151	genic	chr4:151595041-151609592	37
167	genic	chr7:106627286-106634566	38
168	genic	chr7:107986952-108080585	39
171	genic	chr7:4959068-5019101	40
201	genic	chr11:48604590-48617765	41
204	genic	chr11:69476073-69485842	42
20	genic-3'UTR	chr8:119729782-119737057	44
29	genic-3'UTR	chr1:133914766-133928861	45
30	genic-3'UTR	chr7:52234285-52385890	46
31	genic-3'UTR	chr4:134922569-135019317	48
34	genic-3'UTR	chr2:167300506-167343822	49
35	genic-3'UTR	chr11:60591171-60602578	50
39	genic-3'UTR	chr11:77886512-77895660	51
41	genic-3'UTR	chr9:114314202-114476826	52
44	genic-3'UTR	chr1:162935067-162968244	53

Table S4A. Analysis of piRNAs from mouse testis development stages

Library ID	Library description	Total unique reads mapped	Intergenic piRNAs	5'UTR unique piRNAs
GSM319960	10 dpp total	1235570	695208	14667
GSM319953	10 dpp MILI IP	868541	824184	3494
GSM319961	10 dpp MILI-KO total	177079	164907	4377
s_1.mapped_MIWI_2.txt	8 wks Adult testis Miwi IP	4561847	4439916	4698
s_2.mapped_MILI_2.txt	8 wks Adult testis Mili IP	7250340	6925673	16617
s_3.mapped_AdTestis_2.txt	8 wks total small RNA	5051156	4920341	6378



## Supplemental Data

Gene	Chro	Start	End	Strand	Name	size_3UTR
NM_007923	chr1	133904181	133929261	+	Elk4	345
NM_175518	chr4	56888634	56960301	-	D730040F13F	18
NM_009595	chr1	158488917	158579750	+	Abl2	262
NM_0011102	chr15	103021976	103045783	-	Cbx5	231
NM_029885	chr3	94985689	95021864	-	Gabpb2	538
NM_173424	chr1	162946386	162964390	-	Zbtb37	203
NM_023755	chr1	120524521	120581745	+	Tcfcp2l1	96
NM_177338	chr14	65440554	65568684	-	Hmbox1	328
NM_026579	chr10	82822997	82832080	+	D10Wsu102e	6
NM_175543	chr11	79404713	79511514	+	Rab11fip4	64
NM_010124	chr10	60891244	60915417	-	Eif4ebp2	123
NM_153582	chr8	106872165	106919596	-	Cmtm4	60
NM_178922	chr16	17233679	17263523	+	Hic2	217
NM_010633	chr1	172124386	172145524	-	Uhmk1	153
NM_146012	chr10	126432668	126437031	+	Ctdsp2	287
NM_022980	chr4	134968223	134989720	-	Rcan3	231
NM_174997	chr1	34870070	34899819	-	Fam168b	158
NM_134437	chr14	27852186	27920472	+	Il17rd	103
NM_0010425	chr9	114416640	114473487	-	Trim71	1252
NM_017376	chr15	81641902	81657293	+	Tef	97
NM_153484	chr15	81633246	81657290	+	Tef	3
NM_0010334	chr12	88507191	88541179	-	Tmed8	26
NM_0010336	chr4	107900359	107973695	-	Zyg11b	170
NM_008306	chr18	60844379	60873043	-	Ndst1	154
NM_153512	chr17	83978796	84031235	-	Kcng3	277
NM_178665	chr16	24393435	24992662	+	Lpp	550
NM_138657	chr11	97223864	97259856	+	Socs7	91
NM_011630	chr6	92088987	92122203	+	Nr2c2	66
NM_176833	chr16	16903413	16927455	+	Ppm1f	68
NM_134100	chr15	102109886	102120175	+	Mfsd5	192
NM_172510	chr1	133923197	133964639	-	Mfsd4	170
NM_176958	chr19	44637343	44650764	+	Hif1an	24
NM_0010011	chr6	85419571	85452880	-	Fbxo41	492
NM_0010333	chr5	143632217	143656917	-	Fbxl18	132
NM_021366	chr7	71031752	71083743	-	Klf13	311
NM_010756	chr11	120486416	120494861	-	Mafg	214
NM_0010810	chr7	30906966	30920301	+	Zfp382	86
NM_173388	chr11	75345211	75391043	+	Slc43a2	73
NM_009149	chr8	113679457	113783102	-	Glg1	6
NM_172505	chr1	90159652	90174132	-	A730008H23I	88
NM_0010809	chr8	112250350	112261639	-	Atxn1l	348
NM_025454	chr1	95700541	95718677	+	Ing5	38
NM_172860	chr2	154262219	154365092	+	Cbfa2t2	119
NM_025578	chr6	92119516	92134017	-	Mrps25	50
NM_172284	chr8	113527087	113551664	-	Ddx19b	110
NM_172977	chr2	28678094	28695806	-	Gtf3c4	59
NM_198308	chr8	113618644	113660544	+	4930402E16F	135
NM_153516	chr6	120786247	120842860	+	Bcl2l13	177

## Supplemental Data

Gene	Chro	Start	End	Strand	Name	size_3UTR
NM_0010349	chr6	85061409	85076088	-	EG545861	3990
NM_027939	chr3	124104072	124128946	-	1700006A11F	235
NM_013763	chr5	135625580	135638532	+	Tbl2	2980
NM_0011132	chr10	127131484	127138103	+	Tmem194	4654
NM_023046	chr1	93437656	93456167	+	Asb1	4712
NM_175535	chr9	51573456	51661164	+	Arhgap20	2660
NR_026798	chr13	21596184	21598393	-	Zfp389	934
NM_172284	chr8	113527087	113551664	-	Ddx19b	5062
NR_026924	chr1	93301458	93302606	-	1700020N18F	544
NM_0010814	chr4	56815200	56822477	+	BC026590	3434
NM_011630	chr6	92088987	92117953	+	Nr2c2	326
NM_173732	chr10	127114120	127132222	+	Tmem194	508
NM_153178	chr15	72935377	73015365	-	Eif2c2	1960
NM_009261	chr2	37425389	37502805	-	Strbp	14160
NM_172509	chr5	130620757	130631678	+	Kctd7	3201
NM_026514	chr17	79733364	79754431	-	Cdc42ep3	700
NM_134033	chr11	5428890	5442220	-	Ccdc117	2408
NM_0010127	chr5	113786313	113786841	+	Aym1	167
NM_172882	chr5	102264603	102498940	-	Wdfy3	573
NM_199323	chr8	26265023	26311921	-	Tacc1	5200
NM_010127	chr15	100405748	100416796	-	Pou6f1	2955
NM_027184	chr10	70810540	70848633	+	Ipmk	4067
NM_183141	chr15	78500436	78548543	-	Elfn2	1867
NM_029478	chr11	86397366	86497324	-	Tmem49	1443
NM_0011102	chr15	103021976	103045783	-	Cbx5	8095
NM_009595	chr1	158488917	158579750	+	Abl2	6903
NM_212473	chr7	139903766	140004879	-	Fam53b	3559
NM_175403	chr5	115592989	115608185	-	Mlec	4934
NM_009682	chr7	87020210	87065526	-	Ap3s2	5159
NM_011844	chr6	88674821	88778351	+	Mgll	2581
NM_198103	chr8	127414198	127421605	-	Exoc8	5177
NM_0010249	chr1	162836541	162905107	+	Rc3h1	7179
NM_027946	chr11	105898185	105920637	+	Wdr68	4468
NM_173388	chr11	75345211	75388543	+	Slc43a2	2565
NM_153516	chr6	120786247	120842860	+	Bcl2l13	5451
NM_020570	chr5	25195633	25211615	-	Xrcc2	2297
NR_002840	chr1	162965296	162968668	+	Gas5	
NM_207682	chr4	148550429	148681807	-	Kif1b	4447
NM_007619	chr9	43957344	44042129	-	Cbl	2183
NM_138657	chr11	97223864	97259856	+	Socs7	5184
NM_172860	chr2	154262219	154365092	+	Cbfa2t2	4176
NM_028821	chr12	85455277	85484460	+	Dnalc1	5116
NM_010772	chr7	134165650	134169993	-	Maz	877
NM_153082	chr12	4082611	4110602	+	Dnajc27	3668
NM_009517	chr3	32233715	32264587	-	Zmat3	6690
NM_029885	chr3	94985689	95021864	-	Gabpb2	6902
NM_023305	chr4	41296028	41336799	+	Ubap1	945
NM_013785	chr9	107904978	107951113	+	Ip6k1	2810

## Supplemental Data

646 genes >200 piRNAs in OSS

highly expressed = 700 genes (>8 expression level)

orange=GO terms shared in common between genes with high piRNAs and genes that are

green = GO terms specific to high piRNA set

highly expressed = 700 genes (>8 expression level)

orange are GO terms that are in common between 646 genes >200 piRNAs in OSS and highly ex

green are GO terms exclusive to the 646 genes >200 piRNAs in OSS

## Supplemental Data

orange=GO terms shared in common between genes with high piRNAs and genes that are  
green = GO terms specific to high piRNA set



Supplemental Data

piRNA level	Gene	GPL reference	Mili+/- mouse D10 testes
1	Abl2		
2	Gabpb2		
3	Cbx5	104259_at	73
4	Cbx5	95614_at	73.3
5	Tcfcp2l1	103761_at	42.2
6	Tcfcp2l1	97193_at	15
7	Elk4	98732_at	4.2
8	Fth1	94794_at	1197.6
9	Fam168b		
10	Hic2		
11	Cramp1l	103347_at	143.7
12	Rcan3	102374_at	109.7
13	Rmrp		
14	Zyg11b	99779_at	17.5
15	Ctdsp2	95161_at	369.2
16	Il17rd		
17	Ndst1	92516_at	1.9
18	Ndst1	93590_at	87.9
19	Tef	160117_at	173.4
20	Lpp	96736_at	163.9
21	Atxn1l		
22	Tmem107		
23	Hif1an		
24	Rnu1b2		
25	Ppm1f		
26	Snord22		
27	Socs7		
28	Tmed8		
29	Cbfa2t2	97406_at	125
30	Cbfa2t2	98371_at	3.7
31	Ing5		
32	Smcr8		
33	Luzp1		
34	6430706D22Rik	160682_at	277.5
35	Fbxo41		
36	Gas5	101885_at	6.6
37	Gas5	98530_at	35.7
38	Crkl	103848_at	128
39	Crkl	103849_at	11.4
40	Gna13	100514_at	120.1
41	Gna13	104316_at	53.5
42	Snx30		
43	Rab11fip4		
44	Zfp346		
45	Wipf2		
46	Ddx19b	92708_at	69.5
47	Scd2	95758_at	1335.5
48	D330038O06Rik		