

Mapper benchmarks

Olgert Denas

Taylor lab

Data

- **Alignments:**

- epo_547_hs_mm_12way_mammals_65.out
- hg19ToMm9.over.chain and mm9ToHg19.over.chain

- **Peaks:**

- GATA1_CD36shbrg1_hg19_peaks
- Gata1_Mel_mm9_peaks
- wgEncodeUwDnaseEse14129olaME0PkRep1
- wgEncodeUwDnaseH7esPkRep1V2
- wgEncodeUwDnaseHmvecdadPkRep1
- wgEncodeUwDnaseWbrainC57bl6ME14halfPkRep1

- **Location:**

- https://bitbucket.org/emory_bx/mapper_comparisons

Mapping ratios: epo alignments

Human:Counting	Species_mapper	pslMap	bnMap
peaks	54%	42%	54%
bases	59%	33%	40%

Mouse:Counting	Species_mapper	pslMap	bnMap
peaks	63%	62%	62%
bases	83%	39%	39%

See also: https://bitbucket.org/emory_bx/mapper_comparisons

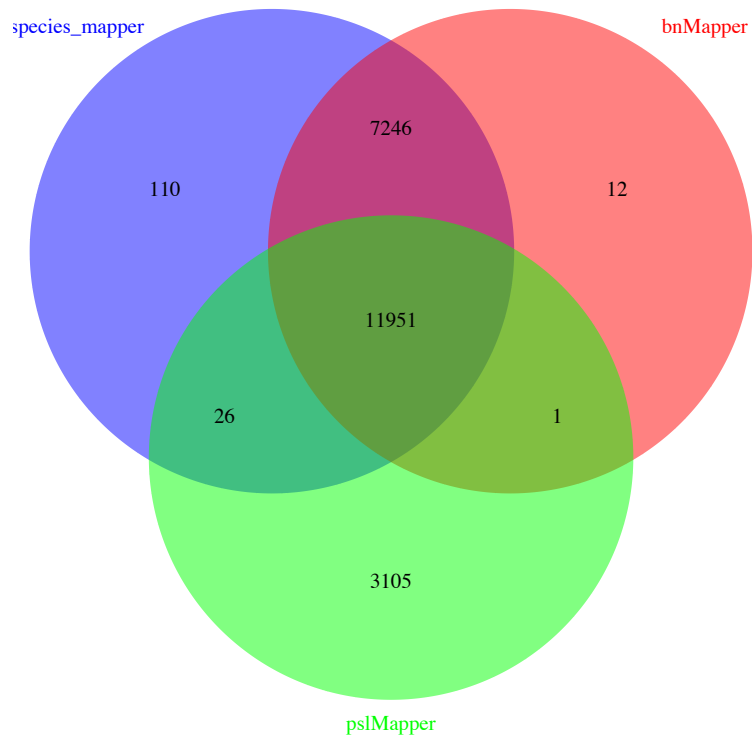
Mapping ratios: ucsc chain

Human:Counting	Species_mapper*	pslMap	bnMap
peaks	NA	72%	48%
bases	NA	61%	32%

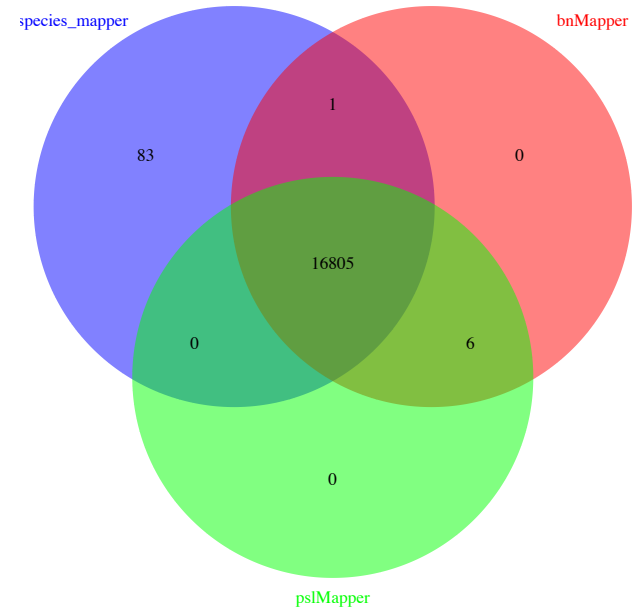
Mouse:Counting	Species_mapper*	pslMap	bnMap
peaks	NA	82%	83%
bases	NA	54%	52%

*Format not suitable for species_mapper

See also: https://bitbucket.org/emory_bx/mapper_comparisons



Human Peaks

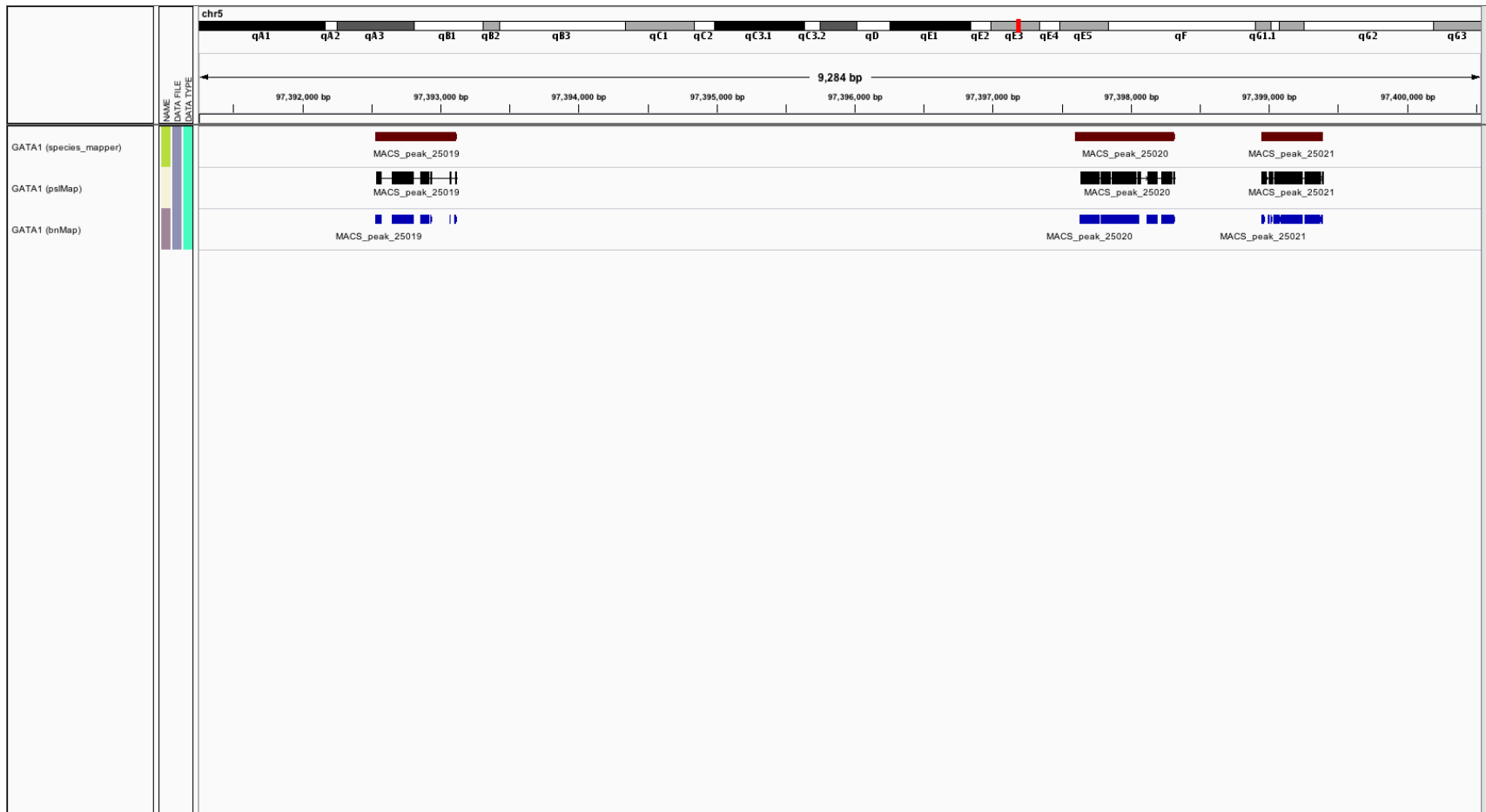


Mouse Peaks

Diverging peaks



Peak expansion



Time

Data	Species_mapper*	pslMap	bnMapper
Human peaks	>400 sec	15 sec	70 sec
Mouse peaks	>200 sec	15 sec	80 sec

*Stopped the program after that many seconds