

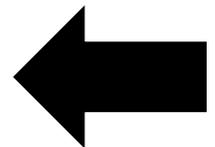
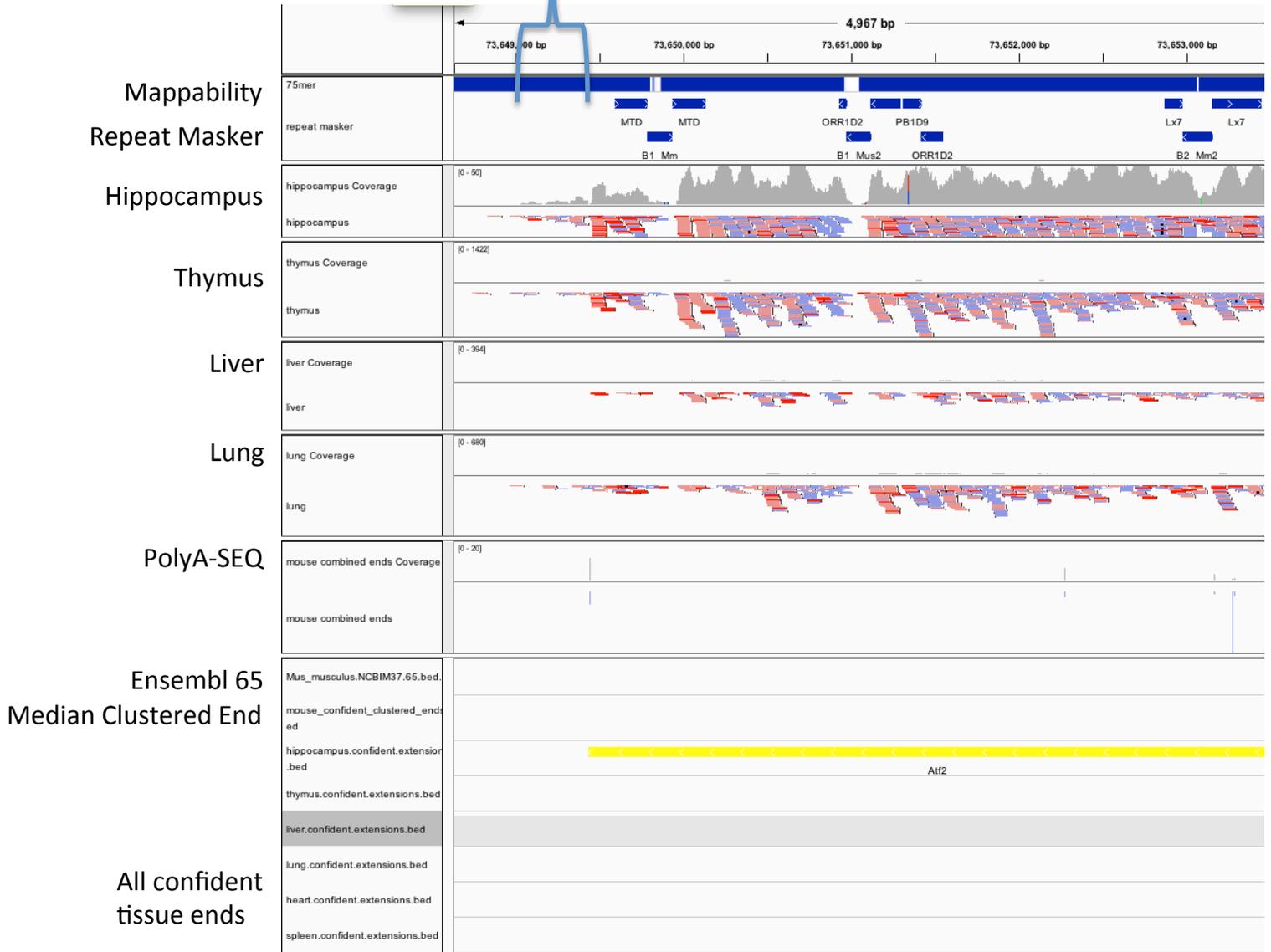
“Precise” extended 3'UTR end coordinate selection

- Drop-off of at least 8-fold in the two consecutive 100 nt windows downstream of the predicted 3' end
- If a repetitive element overlaps the 3' end annotation, the call is removed
- Ends within 30 nt passing “drop-off” criteria in more than 1 tissue are merged and median coordinate is used for analysis

Atf2

Precise end is not called because of failing "drop-off" criteria

Trailing reads

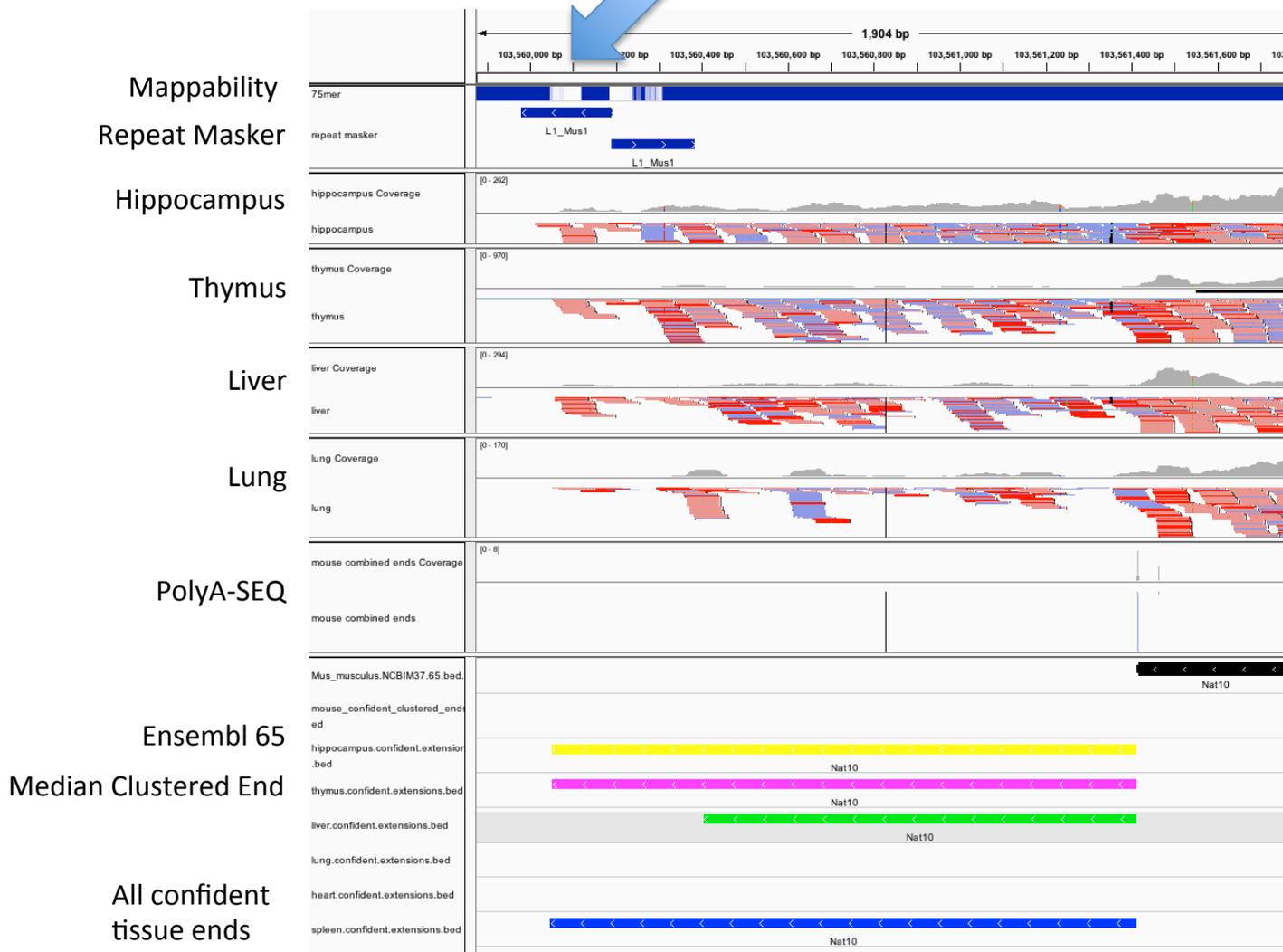


mouse

Nat10

Repetitive element overlaps 3' end annotation.
Potentially confounds end detection; precise
extension not called.

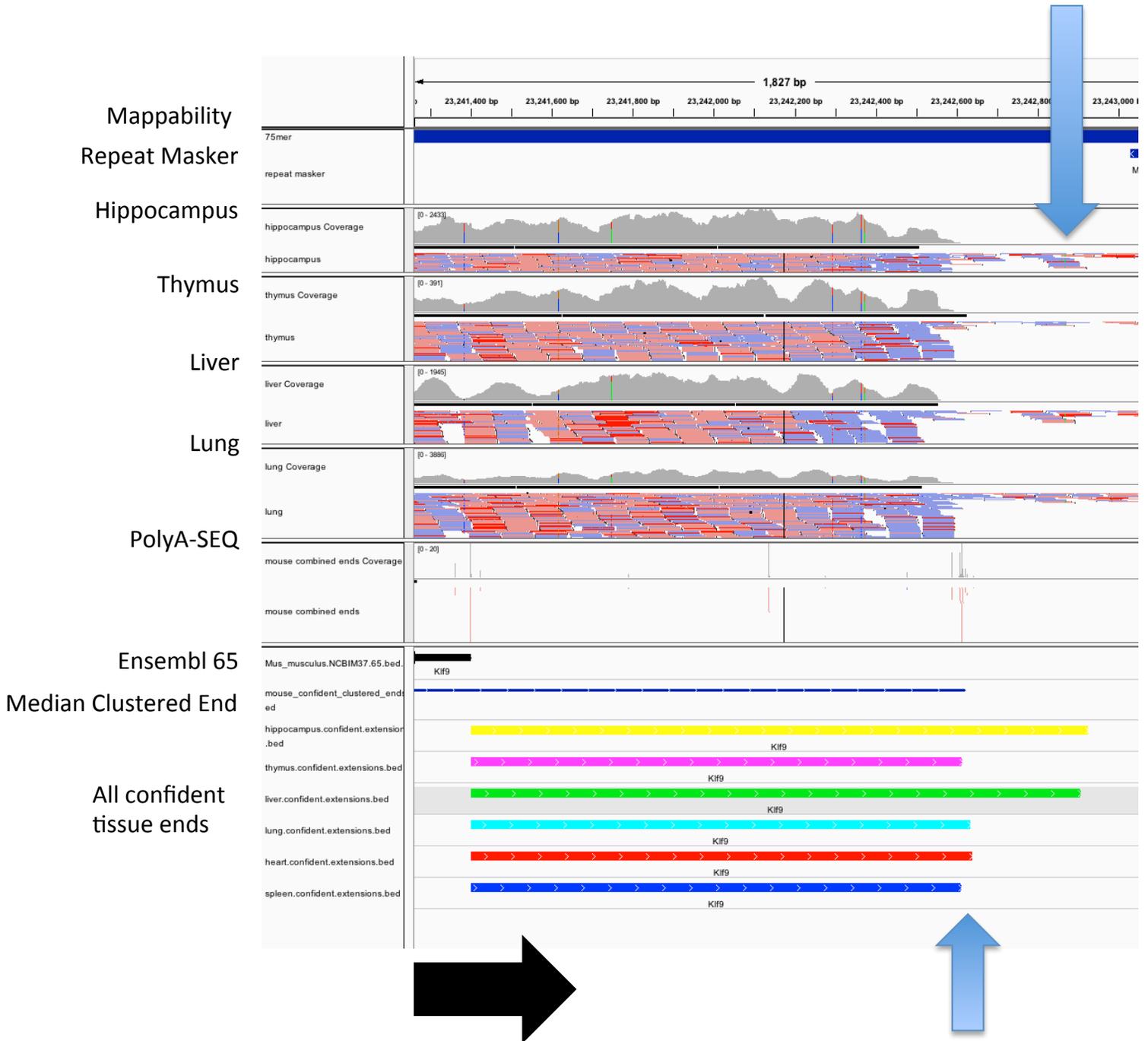
Repetitive Element



mouse

Klf9

Precise Extension end shared by multiple tissues. 3' ends within 30 nt clustered and median end chosen. More distal annotations in liver and hippocampus not called as precise because they fail "drop-off" criteria.



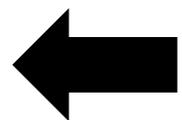
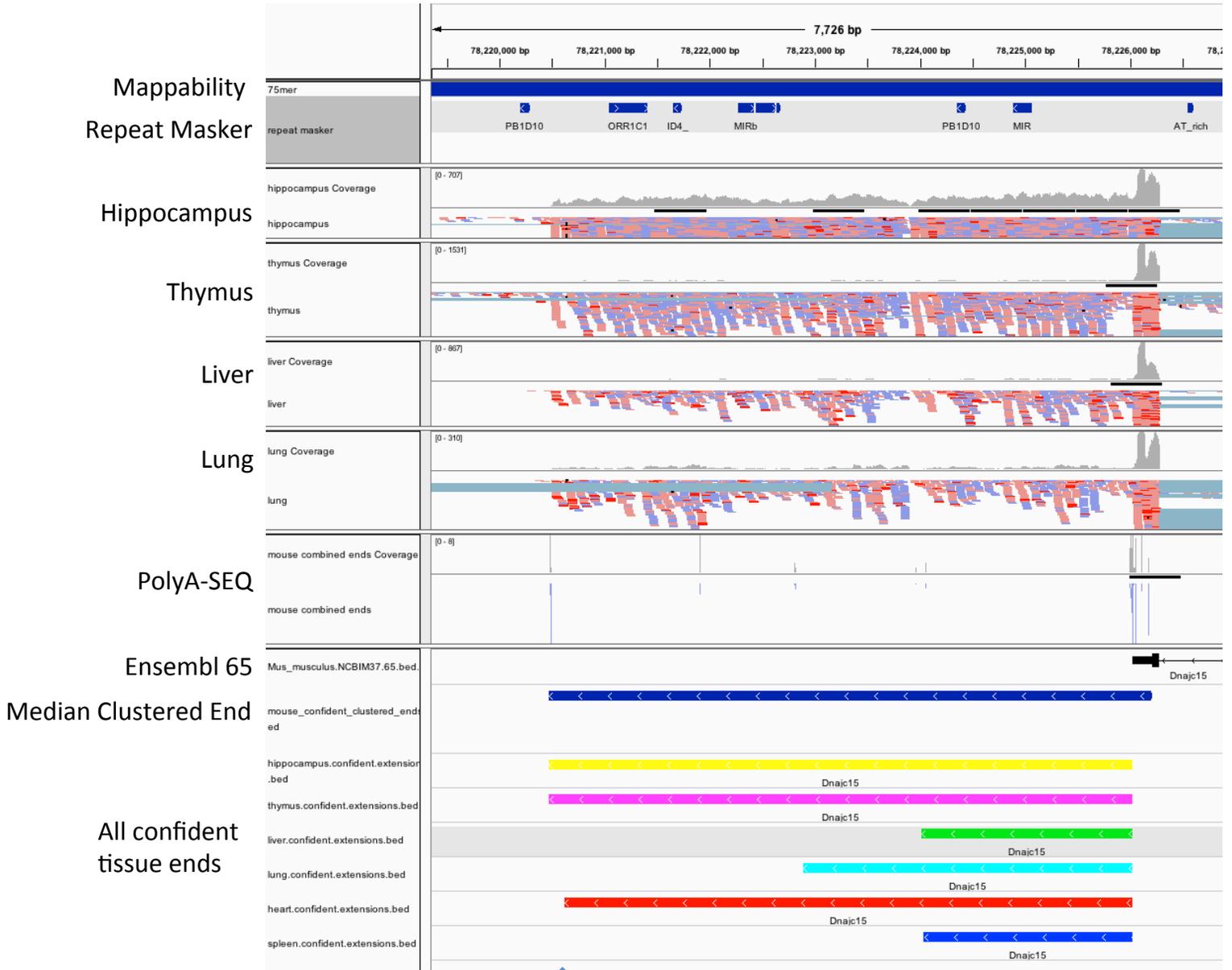
*Clustered
Precise End*

mouse

Dnajc15

Precise Extension end shared by multiple tissues; 3' ends within 30 nt clustered and median end chosen.

*Northern Confirmed Gene
-see Figure 5*



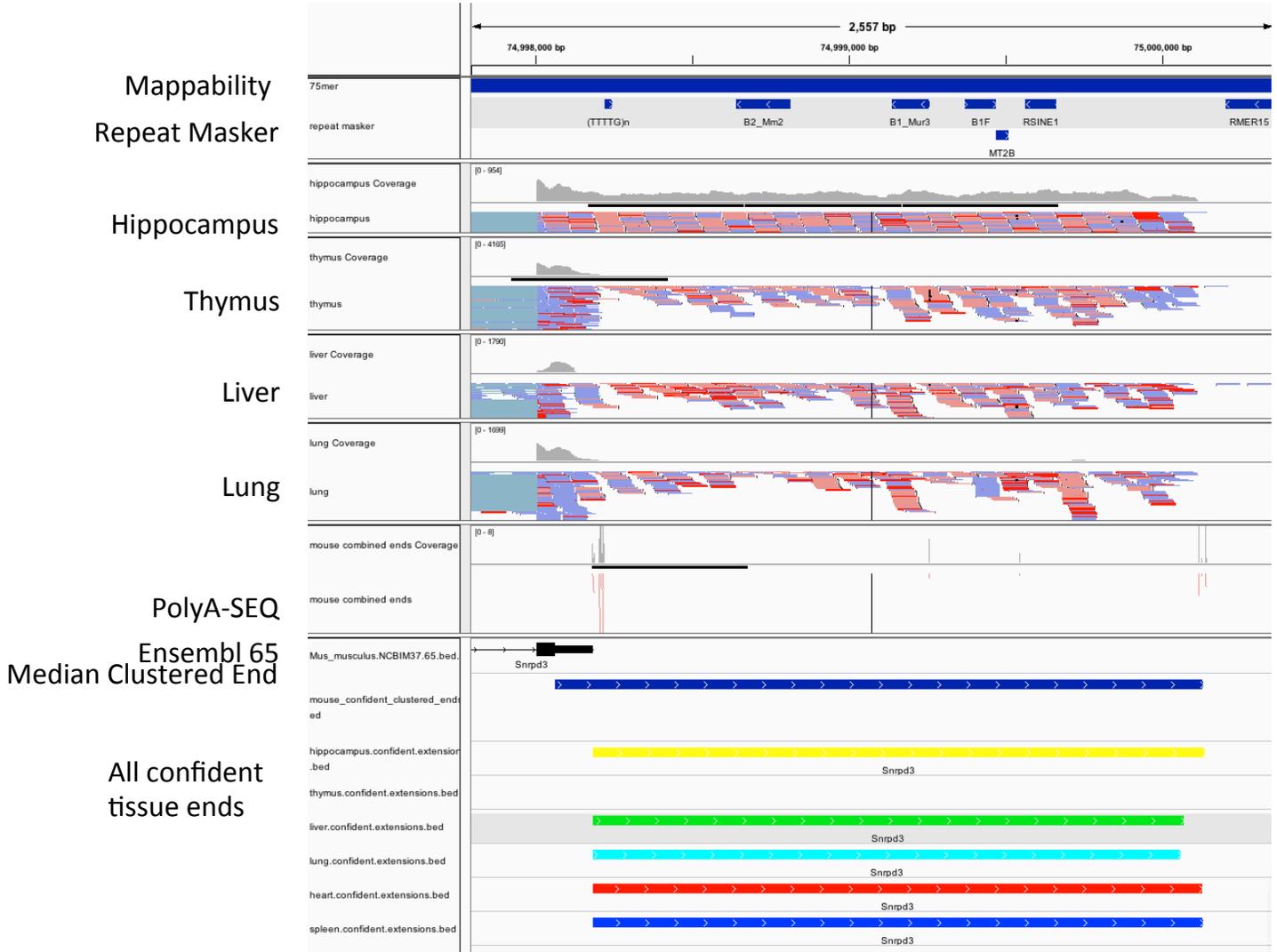
*Clustered
Precise End*

mouse

Snrpd3

Precise Extension end shared by multiple tissues; 3' ends within 30 nt clustered and median end chosen.

Northern Confirmed Gene
-see Figure 5



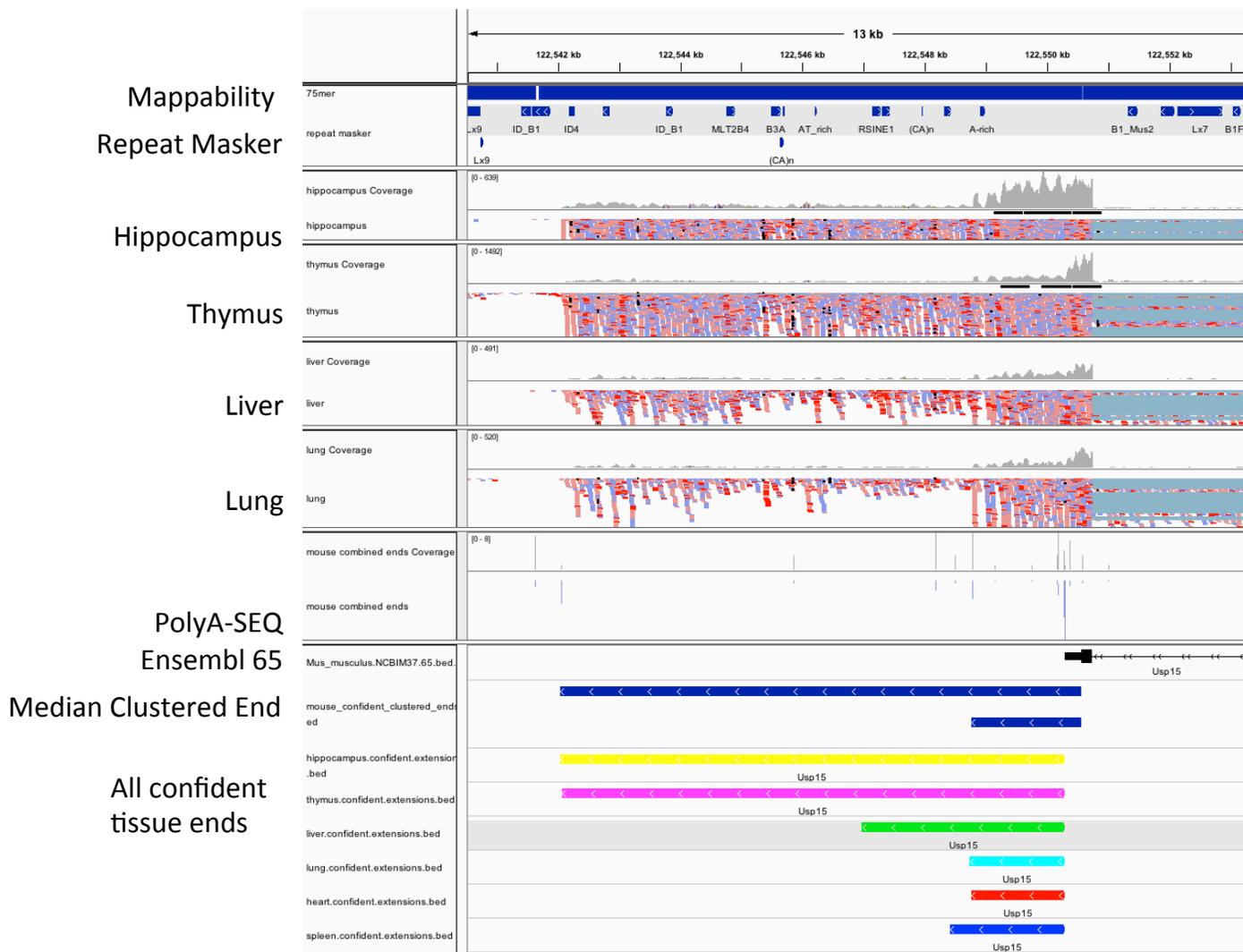
Clustered
Precise End

mouse

Usp15

Precise Extension end shared by multiple tissues; 3' ends within 30 nt clustered and median end chosen.

*Northern Confirmed Gene
-see Figure 5*



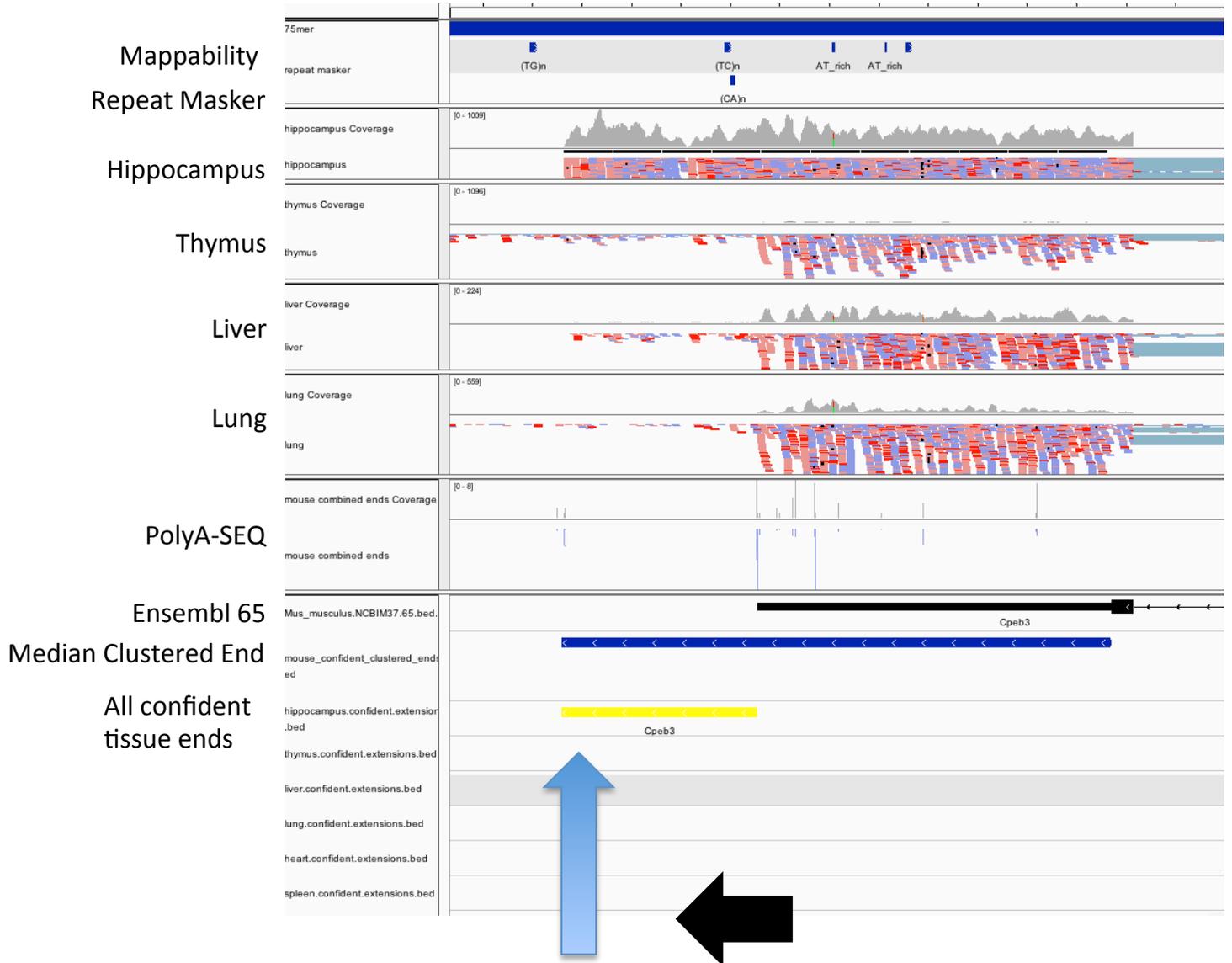
*2 Distinct Clustered,
Precise Ends*

mouse

Cpeb3

Precise extension end expressed in one tissue

*Northern Confirmed Gene
-see Figure 5*



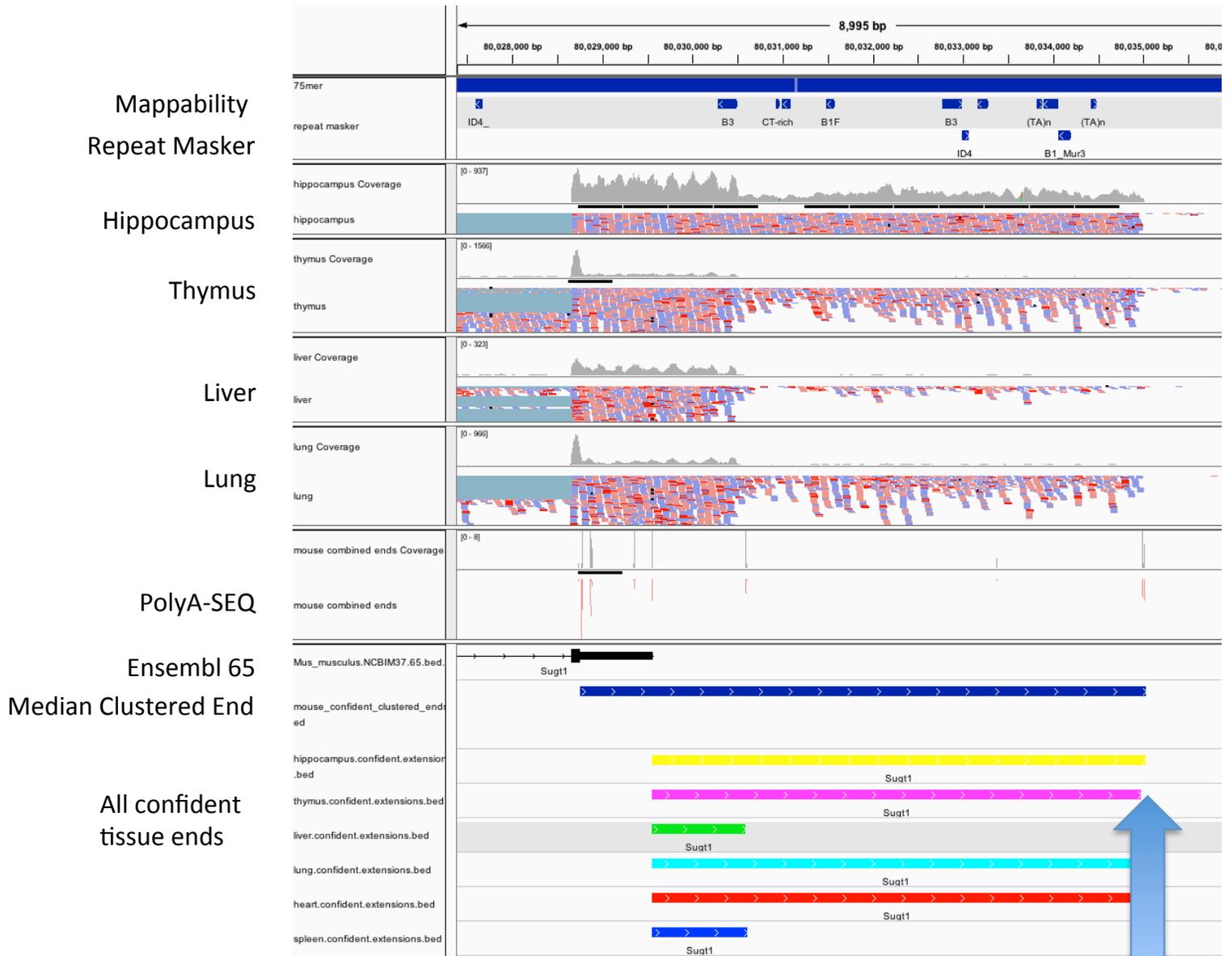
*Hippocampus-specific
Precise end*

mouse

Sugt1

Precise extension end expressed in one tissue

Northern Confirmed Gene
-see Figure 5



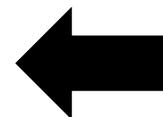
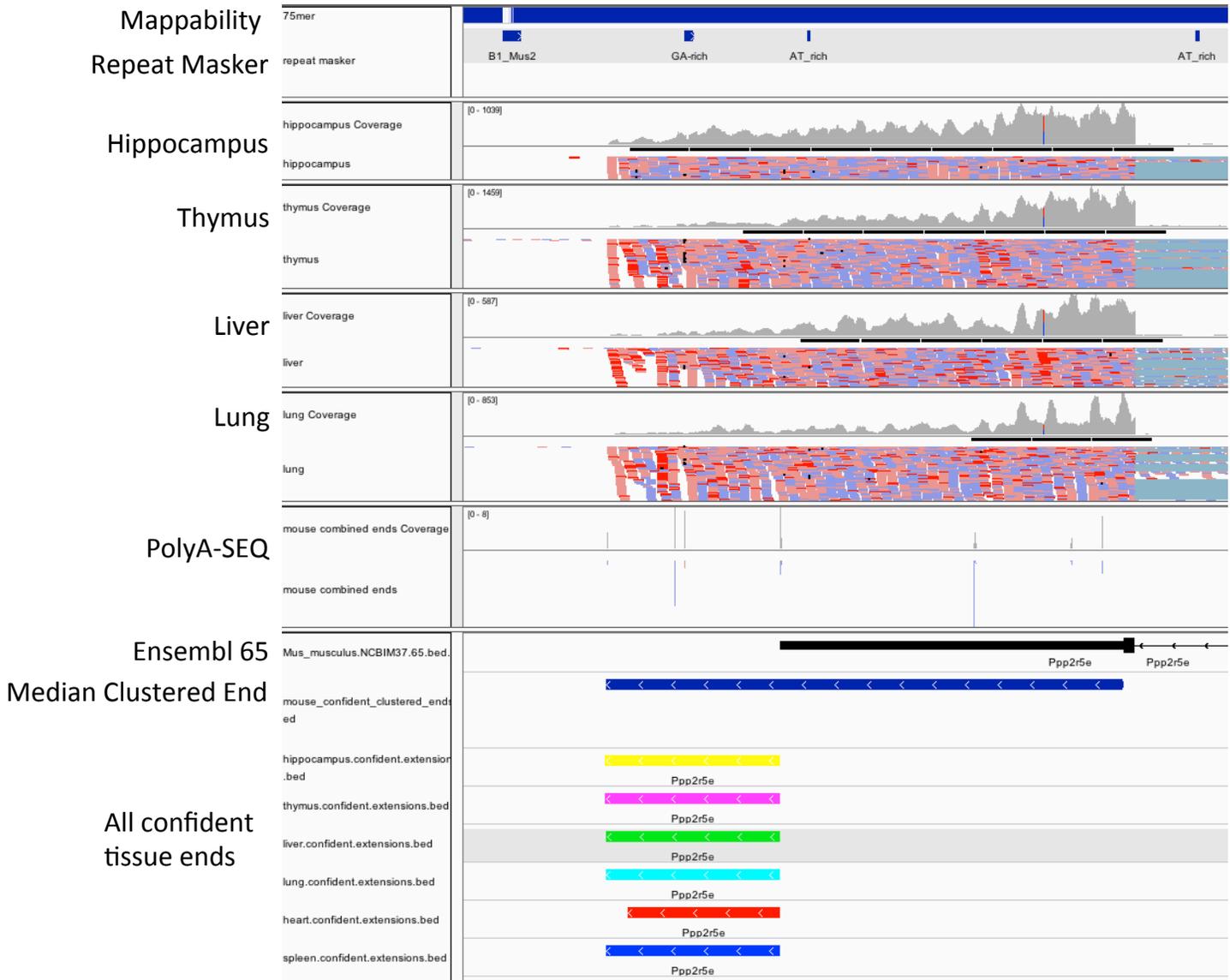
Only hippocampus end
meets drop-off criteria

mouse

Ppp2r5e

Precise Extension end shared by multiple tissues; 3' ends within 30 nt clustered and median end chosen.

Northern Confirmed Gene
-see Figure S14



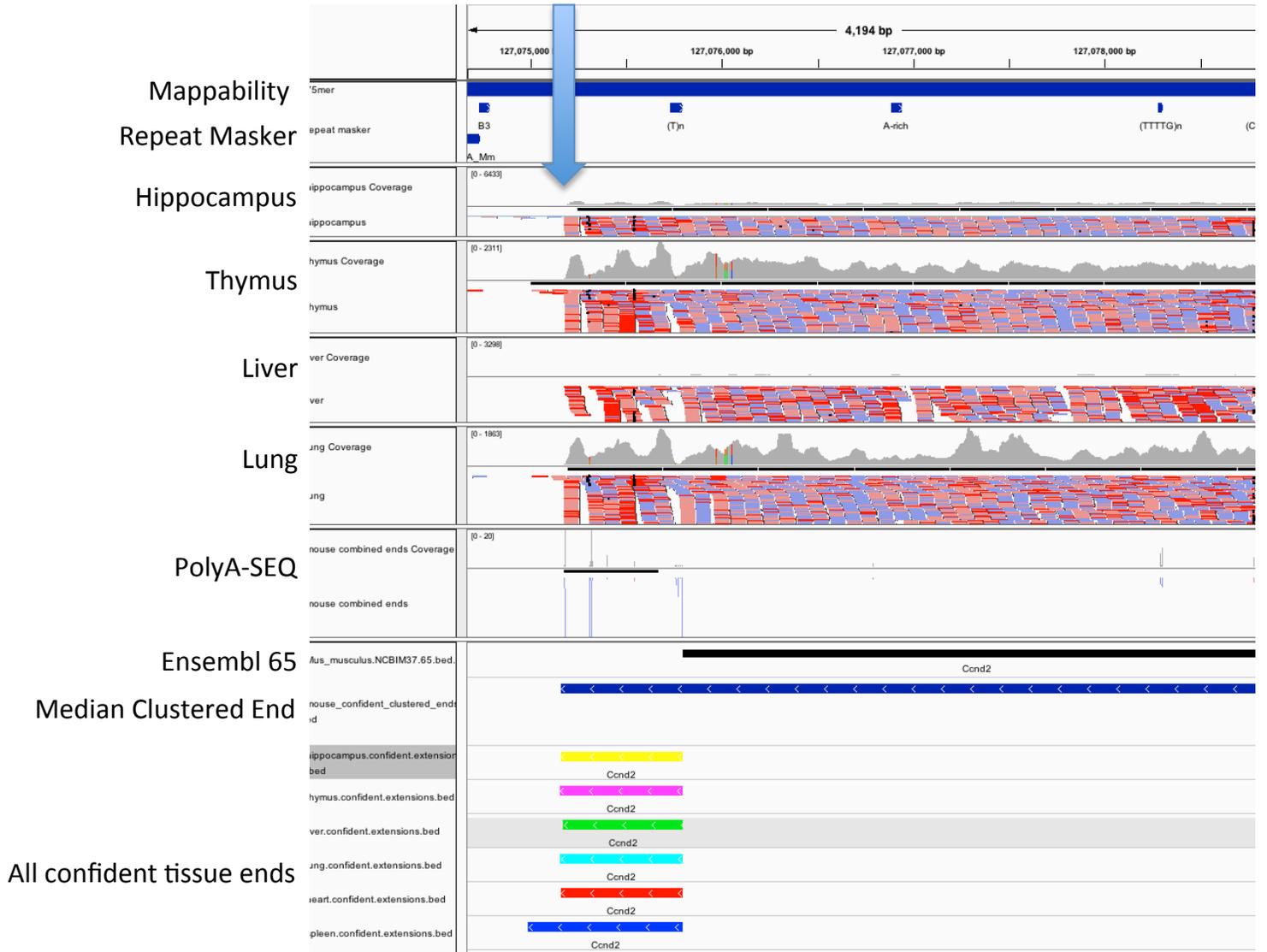
Clustered
Precise End

mouse

Ccnd2

Precise Extension end shared by multiple tissues; 3' ends within 30 nt clustered and median end chosen.

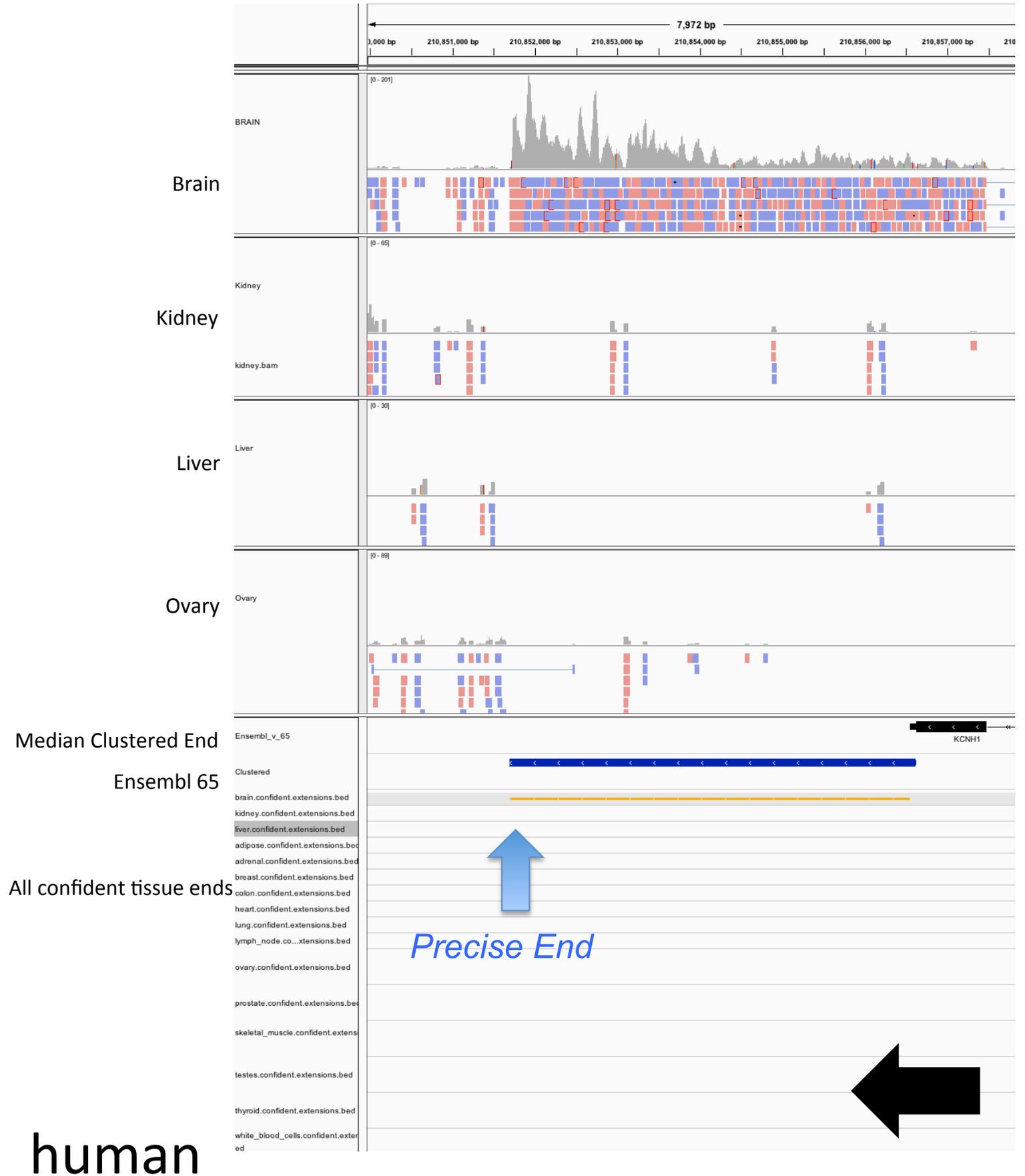
Clustered
Precise End



mouse

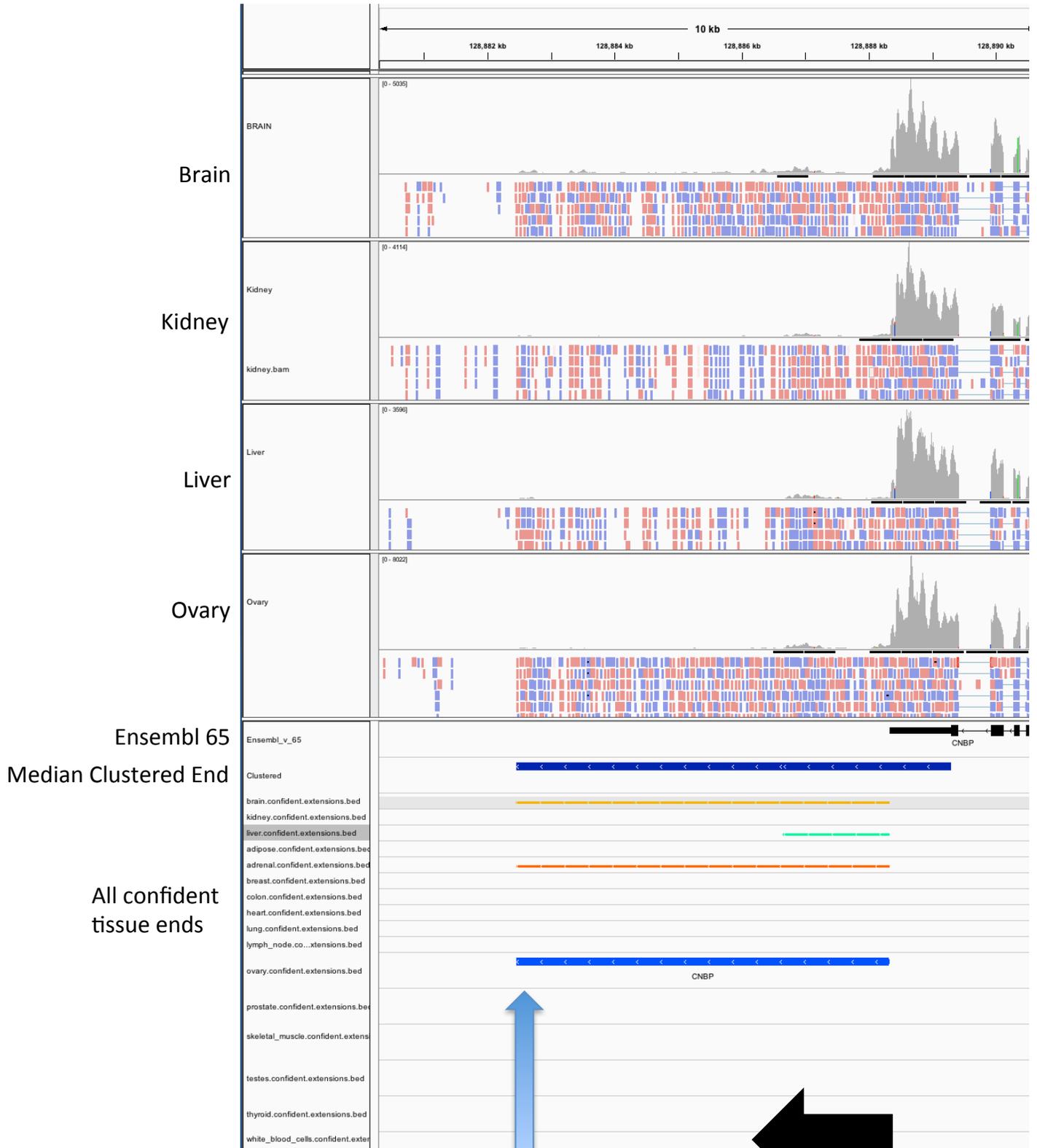
KCNH1

Precise extension end expressed in one tissue



CNBP

Precise extension end shared by multiple tissues. 3' ends within 30 nt clustered and median end chosen location



*Clustered
Precise End*

human

RCSD1

Precise Extension end shared by multiple tissues; 3' ends within 30 nt clustered and median end chosen location

