Left End

Right End

$(t_2\ t_3\ t_4) \cup (t_3) \cup (t_1\ t_2)$

$(t_5) \cup (t_1\ t_2) \cup (t_1\ t_2\ t_6)$

Position pair per-transcript

f: forward
r: reverse

t_1 (120f, 1400r), (140f, 900r), (110f, 300r)
t_2 (100f, 400r), (120f, 500r)

$(t_1\ t_2\ t_3\ t_4) \cap (t_1\ t_2\ t_4\ t_5)$

Both are reverse-mapped
(in-valid pair)

$(t_1\ t_2)$

Validation of Pairs

t_1 (140f, 900r)
t_2 (100f, 400r), (120f, 500r)

This position pair is discarded

t_1

> 1000 bp

< 1000 bp

This position pair valid

t_2

Validation of Pairs

Nucleotide Coverage

t_1 (140f, 900r):**190**
t_2 (100f, 400r):**192**, (120f, 500r):**180**

Coverage Filter

t_1 (140f, 900r):**190**
t_2 (100f, 400r):**192**

Edit-distance Filter

t_1

Final target transcript

Co-mapping

Alignment