

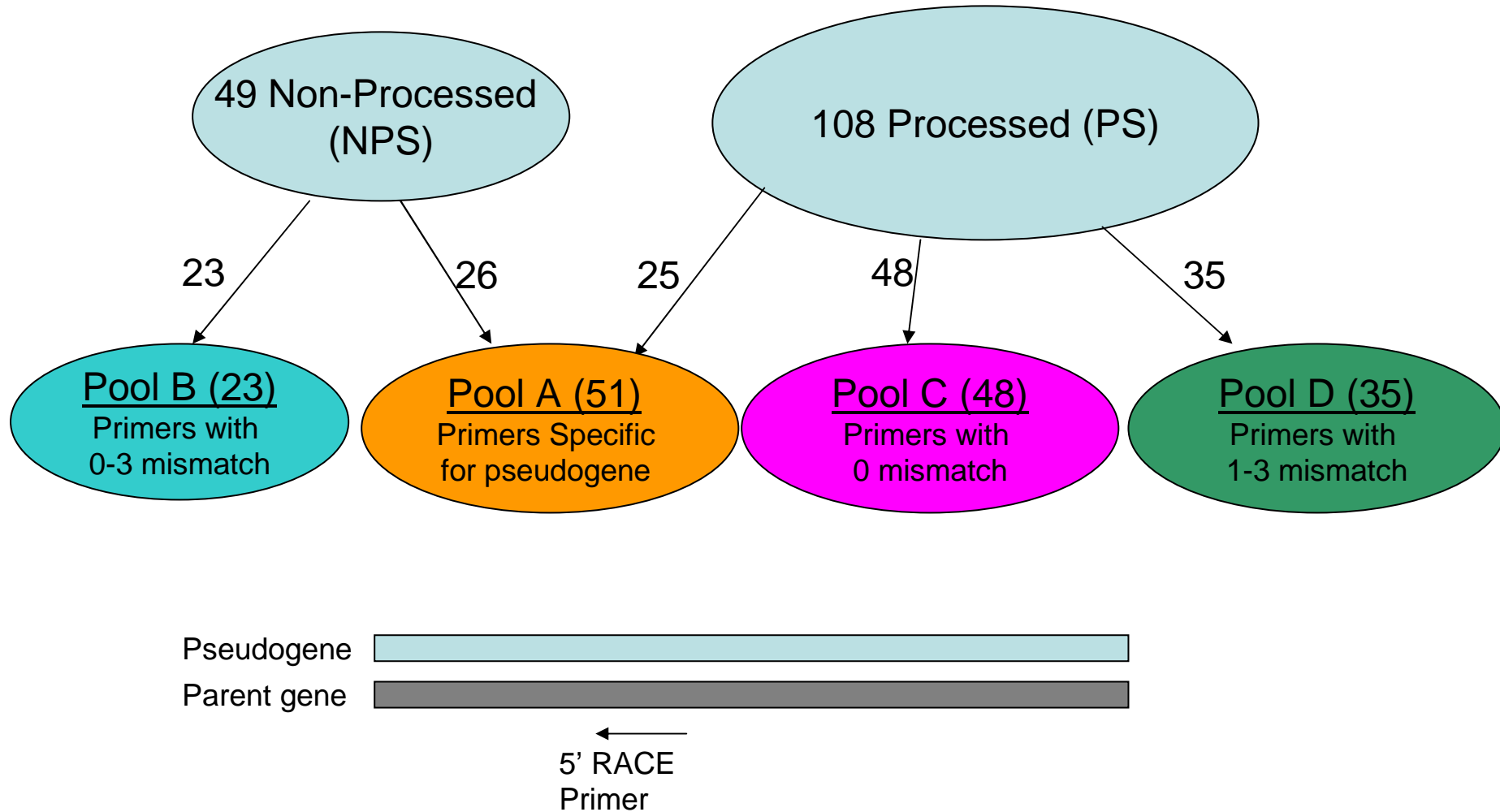
Transcription of ENCODE Pseudogenes -- RACE

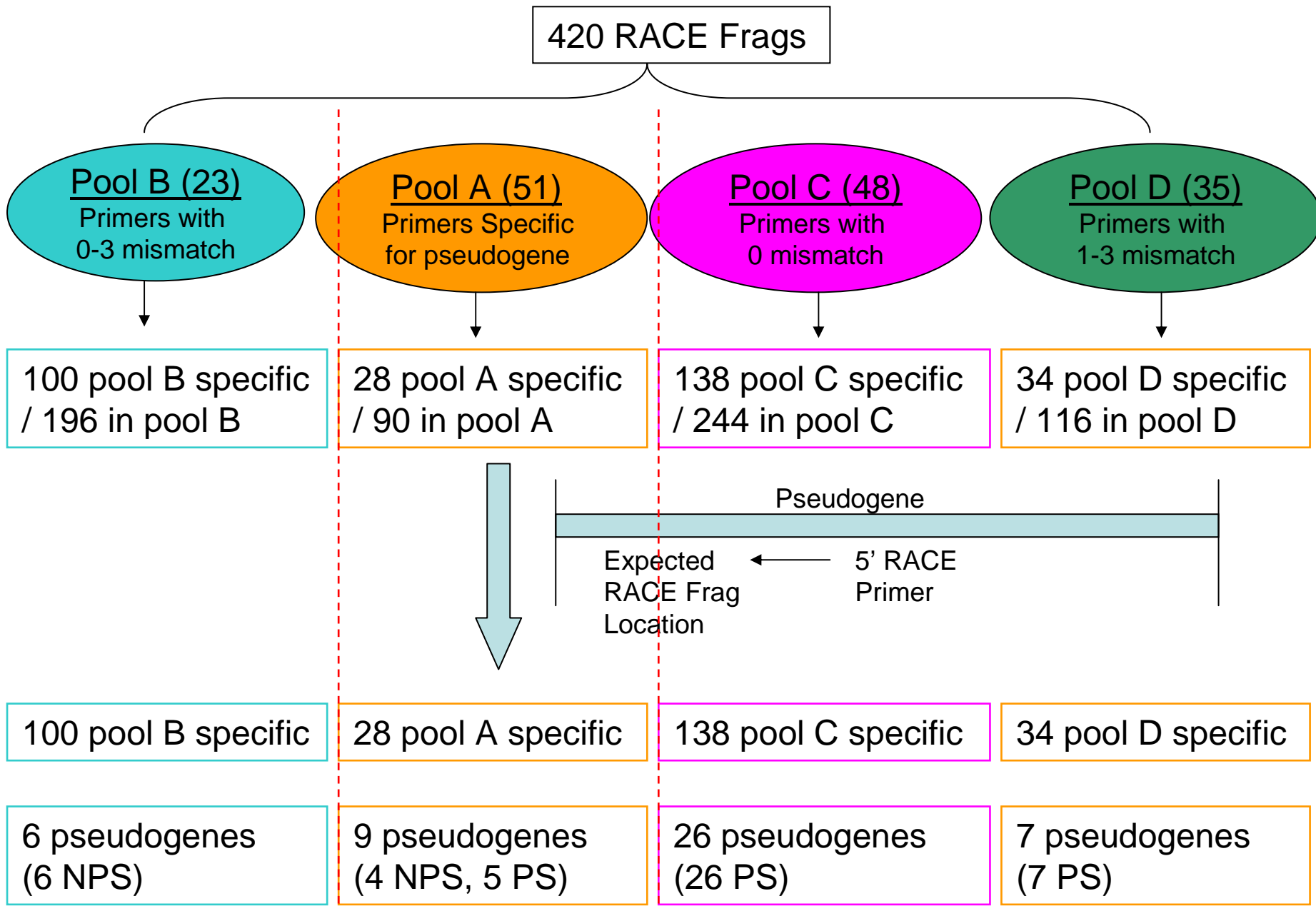
ENCODE Pseudogene Team

Prepared by Deyou Zheng

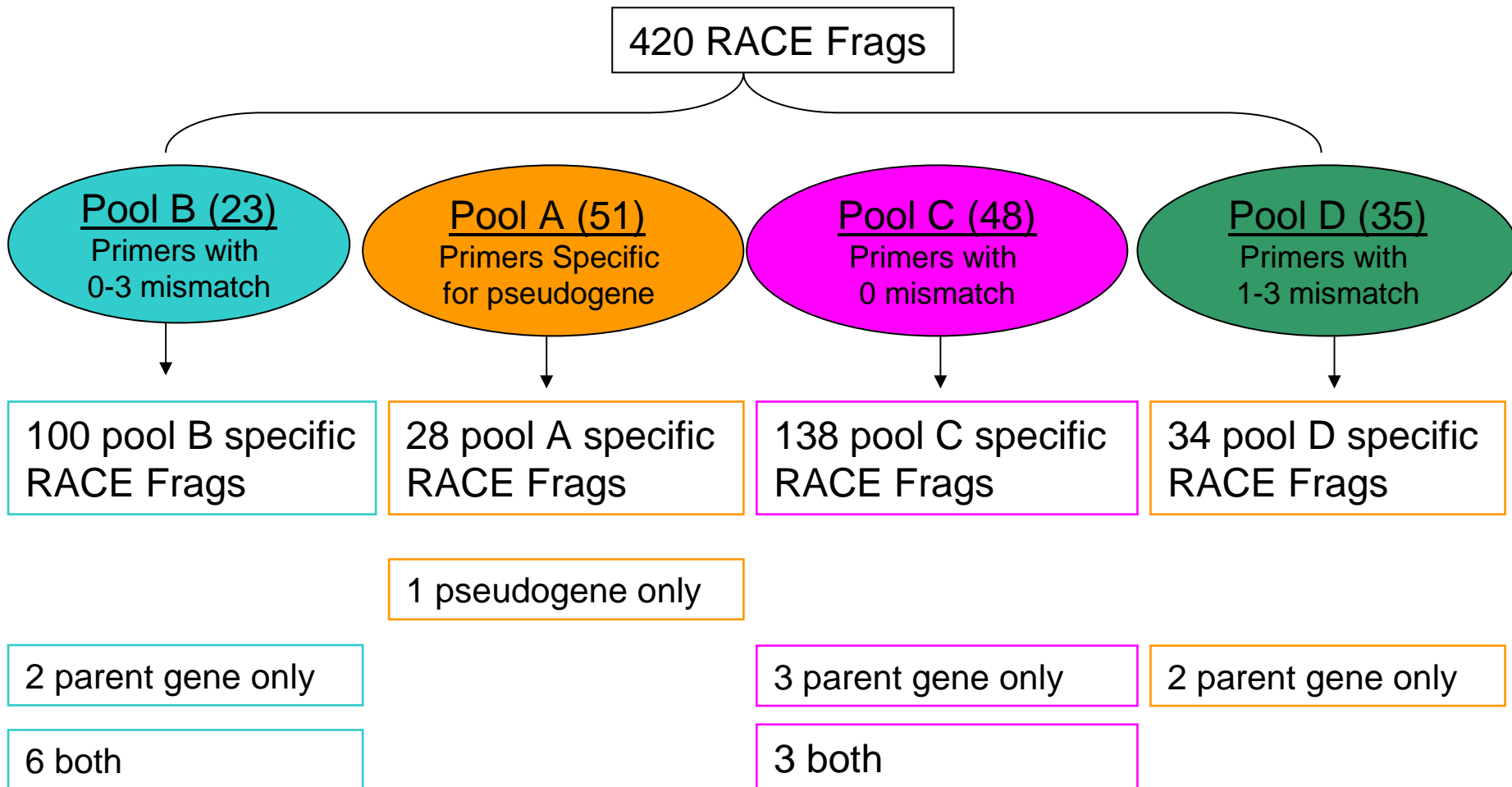
02-17-06

5'-RACE Experiment Design



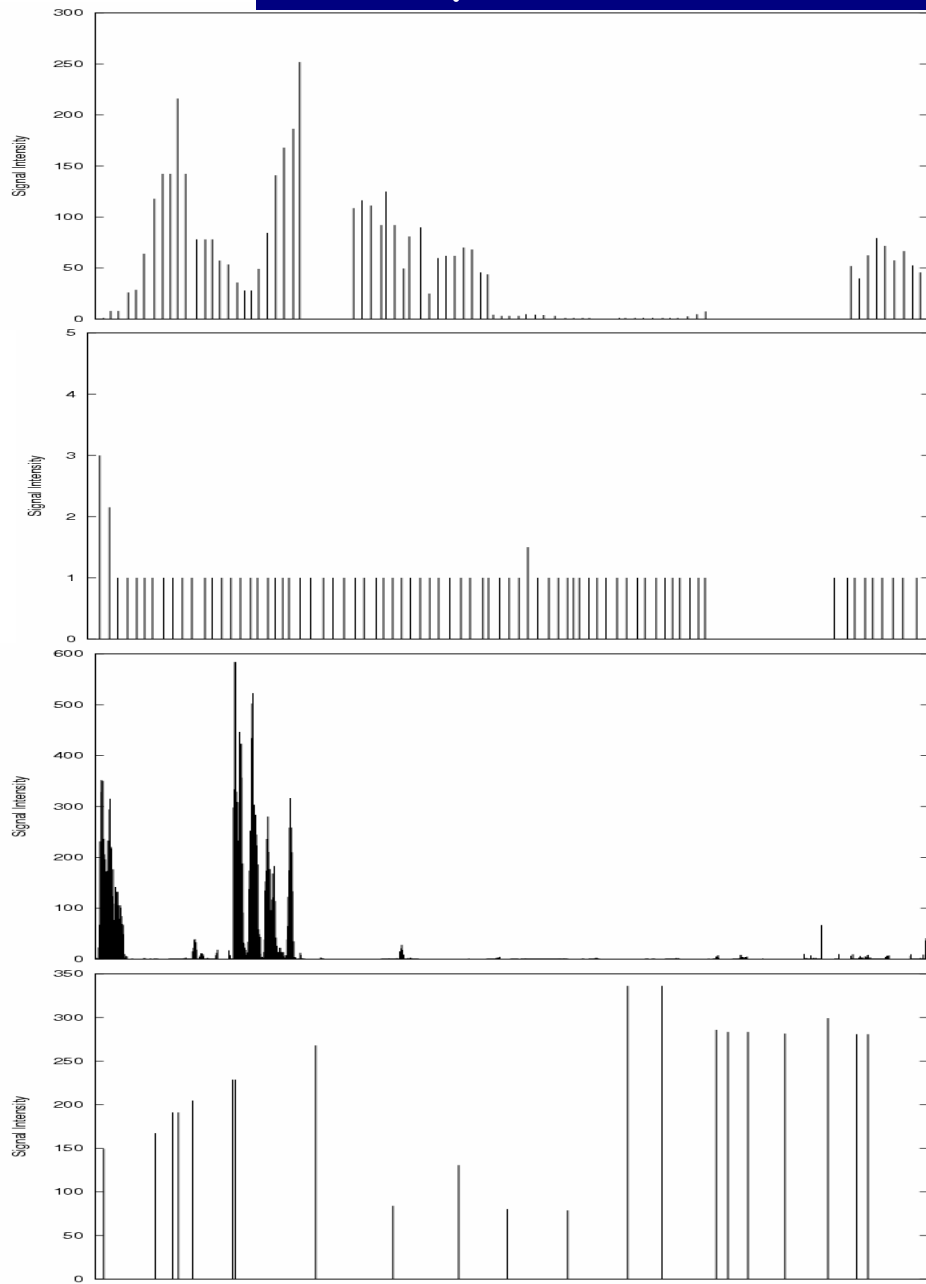


All pools à 48 Pseudogenes have RACEFrags (10 NPS, 38 PS).

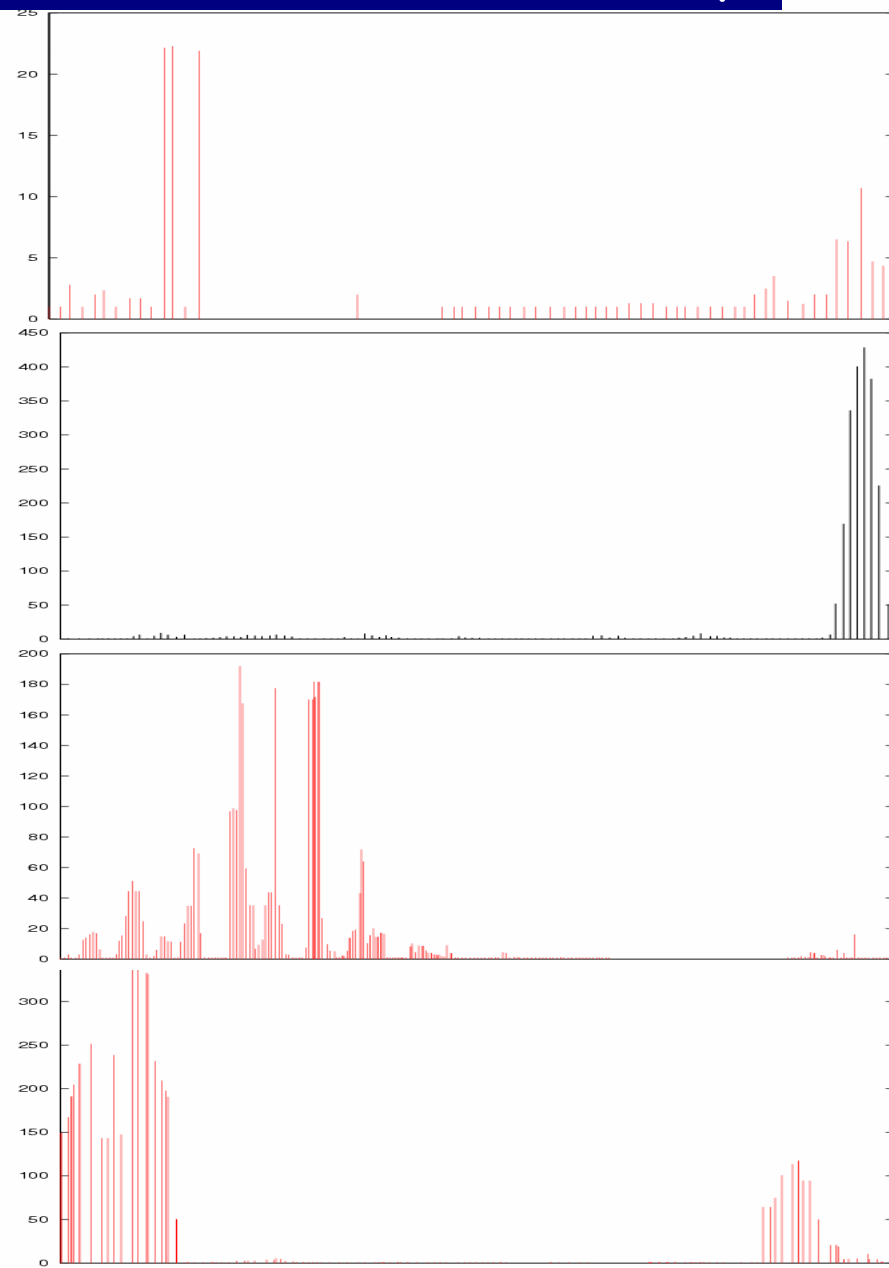


When pseudogenes and parent genes are within ENCODE regions:
 1 -- pseudogenes transcribed, but not RACEFrag from the parent genes.
 7 -- parent genes transcribed, but not RACEFrag from the pseudogenes.
 9 -- both pseudogenes and their parents are transcribed.

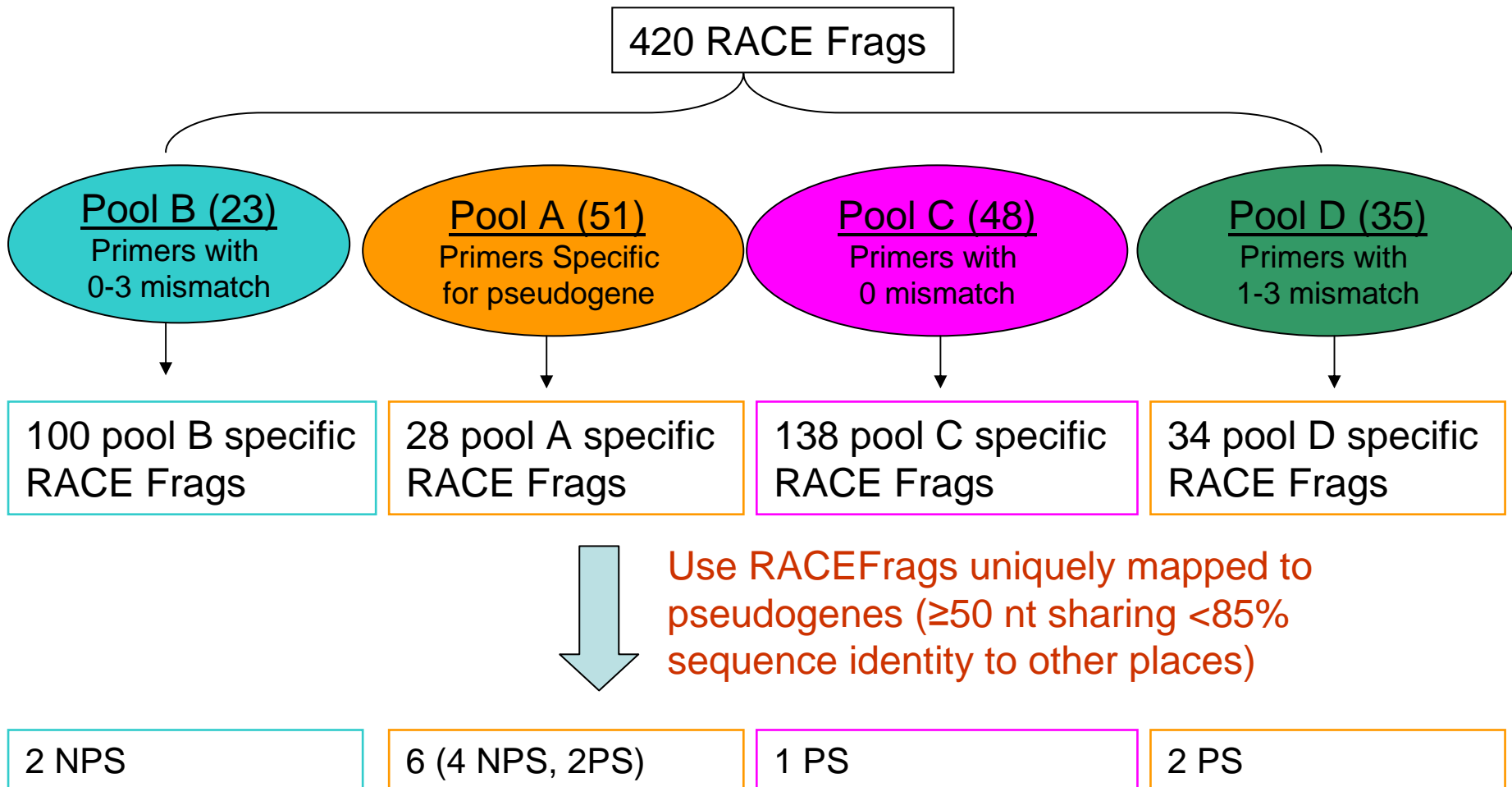
Examples of Probe Intensities from RACE-Chip



Pseudogenes

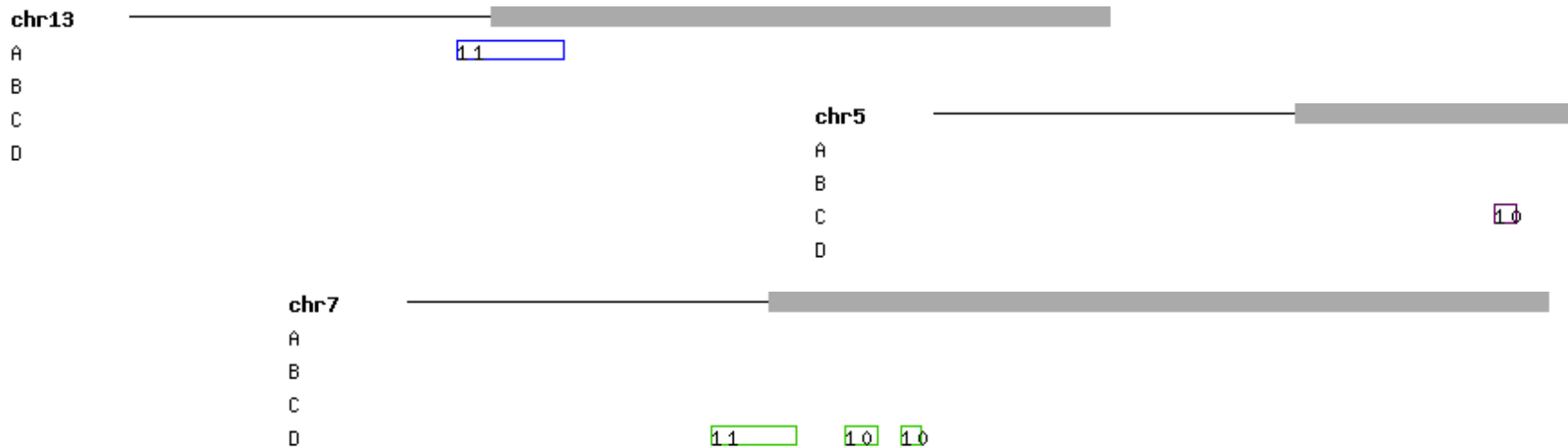
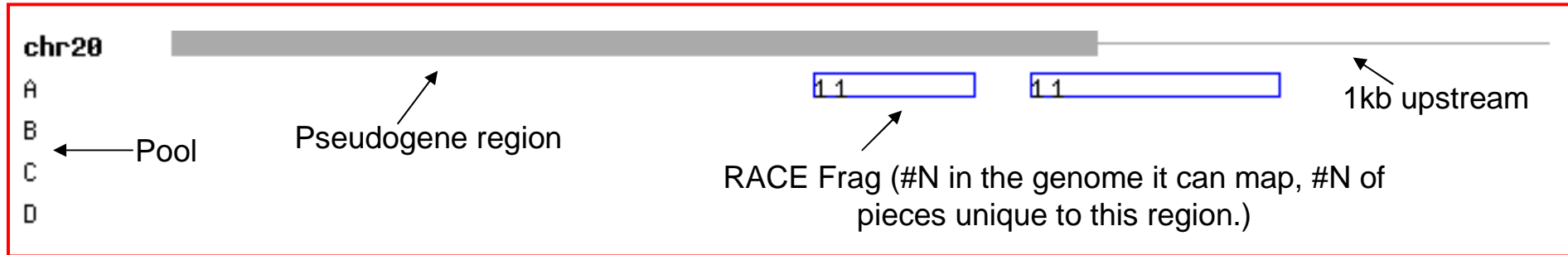
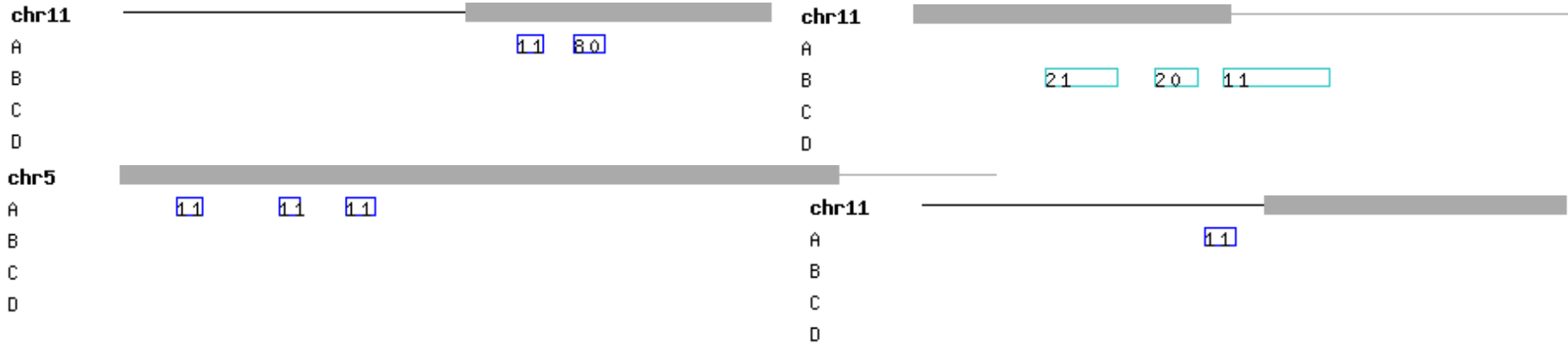


Parent genes



Conclusion:
 6 / 49 non-processed pseudogenes have RACEFrag;
 5 / 108 processed pseudogenes have RACEFrag.

Results in Cartoons



Pseudogenes and Transcription Evidence

	TAR / transfrag	CAGE	DiTag	racefrag	EST / mRNA
TAR / transfrag	105	14	2	2	14
CAGE		14	1	0	1
DiTag			2	0	0
racefrag				8	1
EST / mRNA					21

Methods for intersecting a pseudogene with the five data sets:

