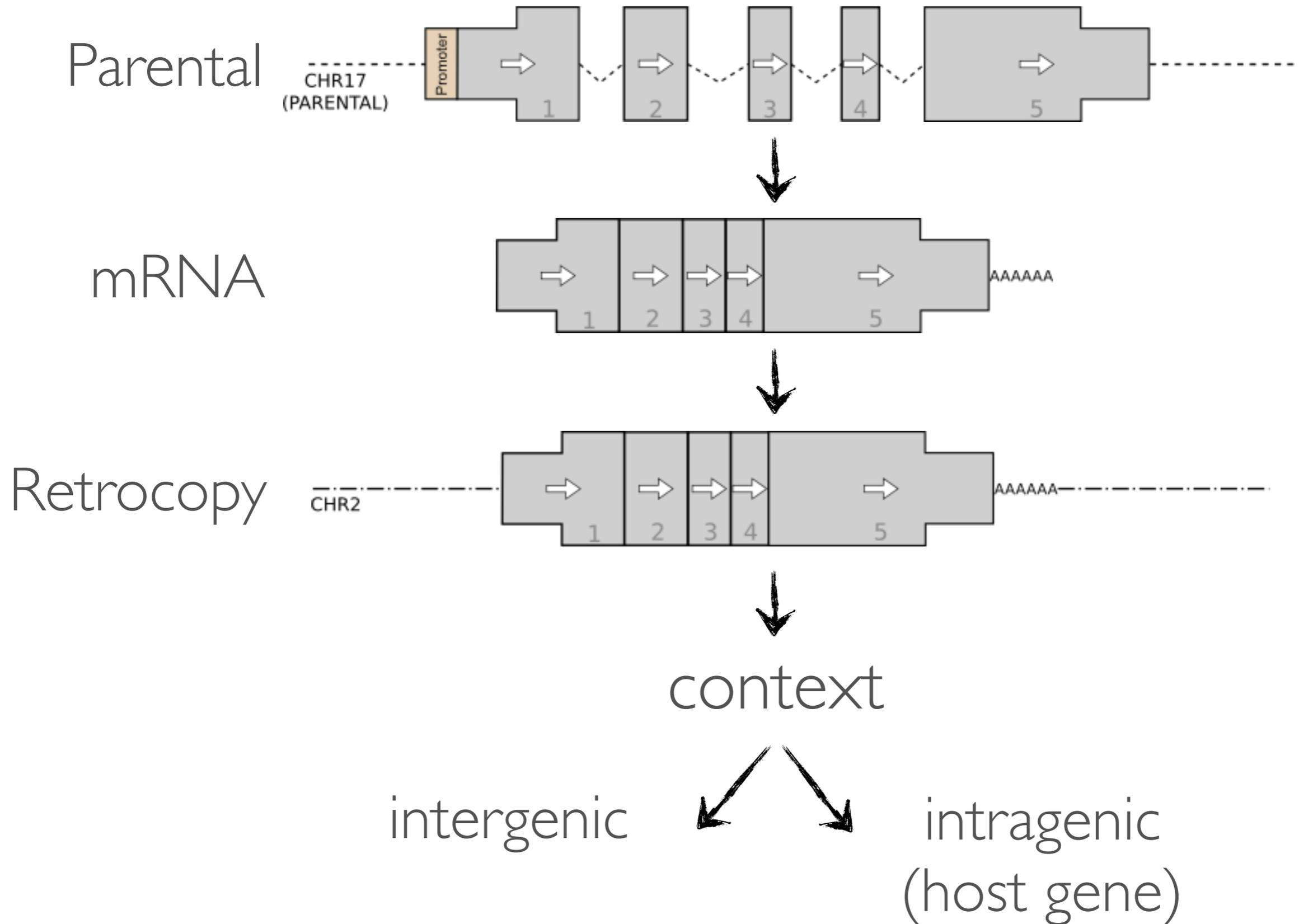


retroCNVs

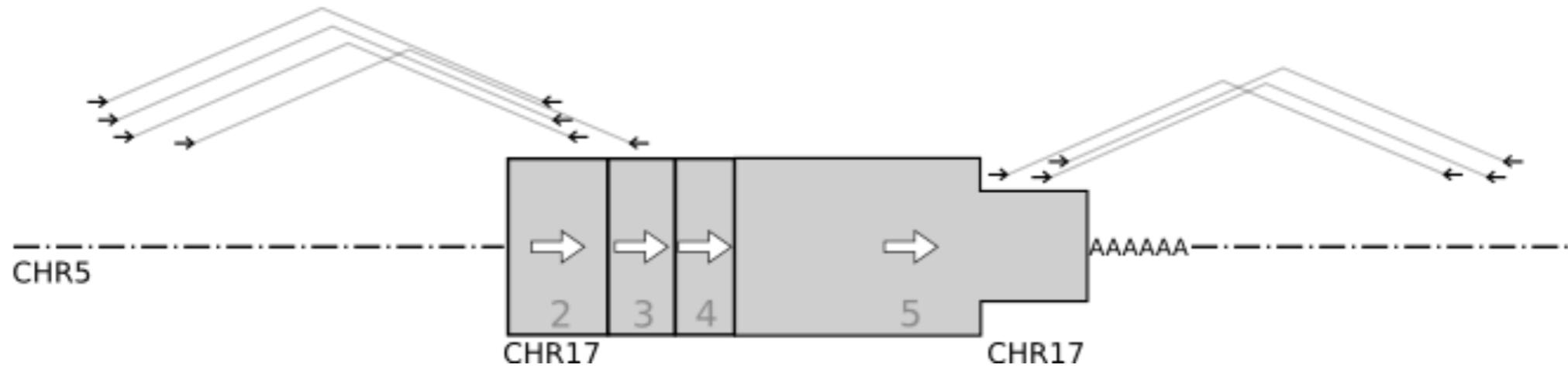
CZ; MS; NA12878

FN - Tech

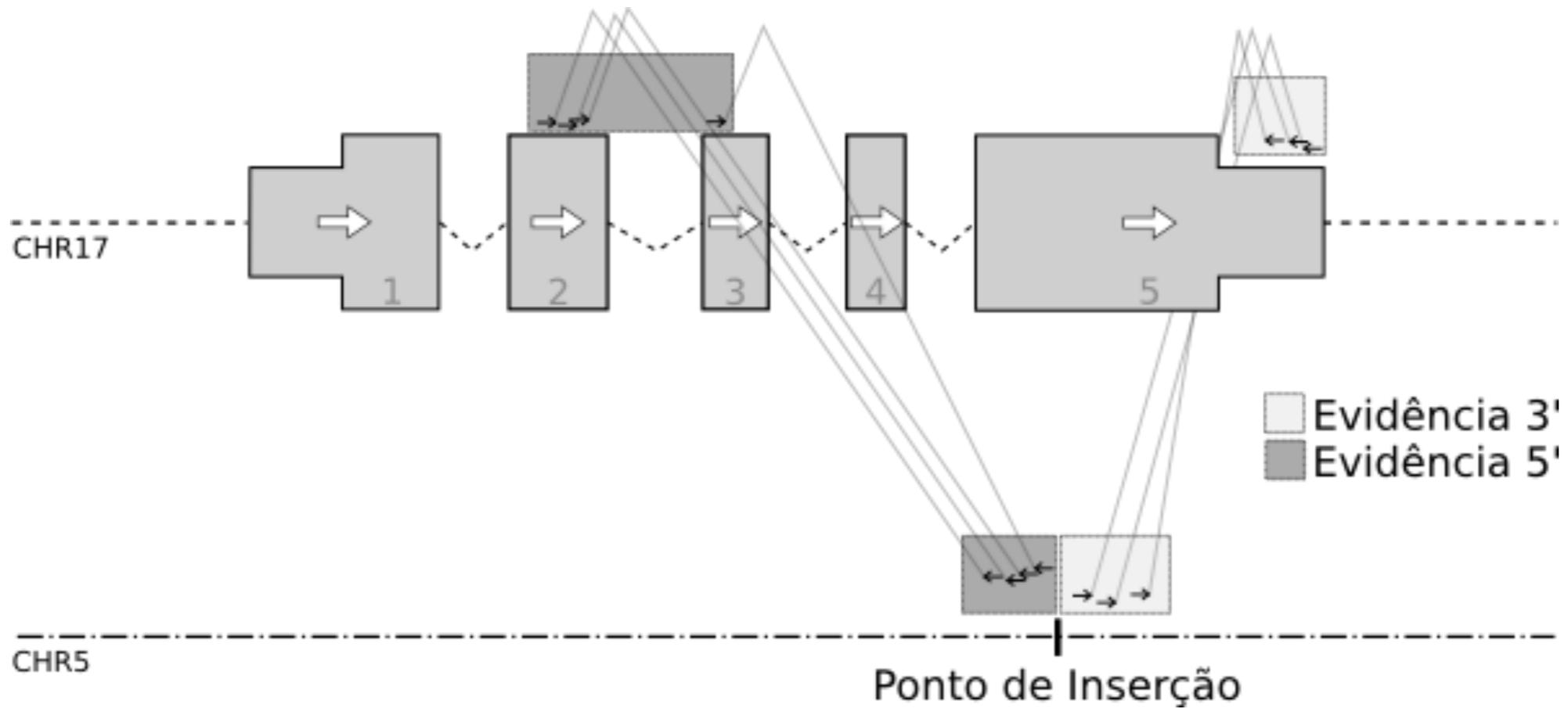
Involved sequences



“New retrocopies”

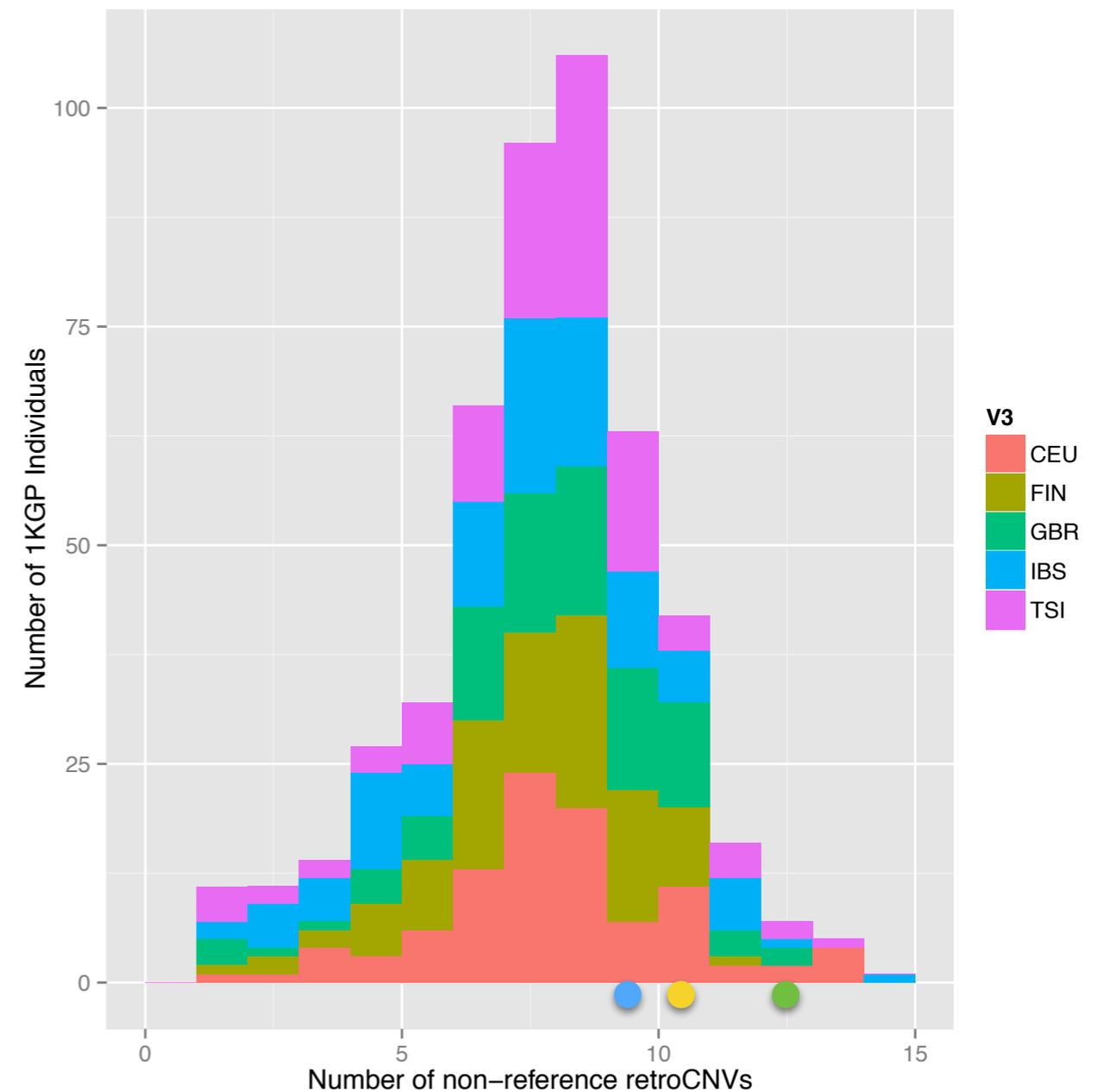


Alignment in the reference genome:



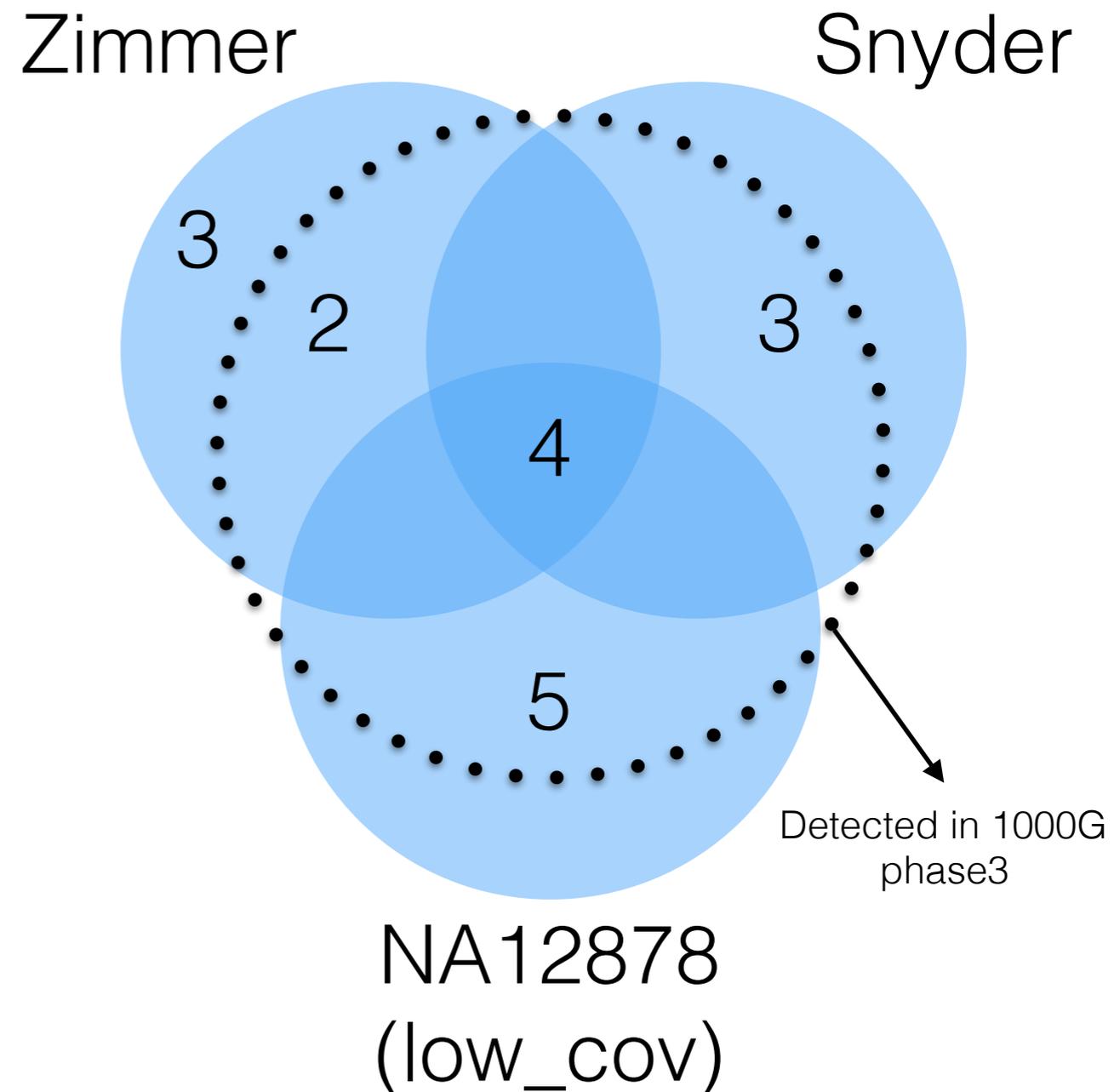
1000 Genomes retroCNVs

- C. Zimmer: 12 retroCNVs
- M. Snyder: 10 retroCNVs
- NA12878 (low-cov): 9 retroCNVs
- NA12878 (high-cov): X retroCNVs

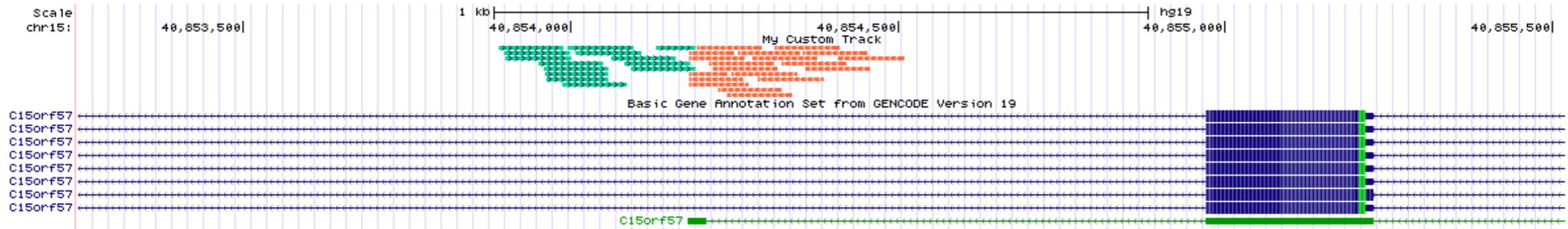


Shared and Specific retroCNVs

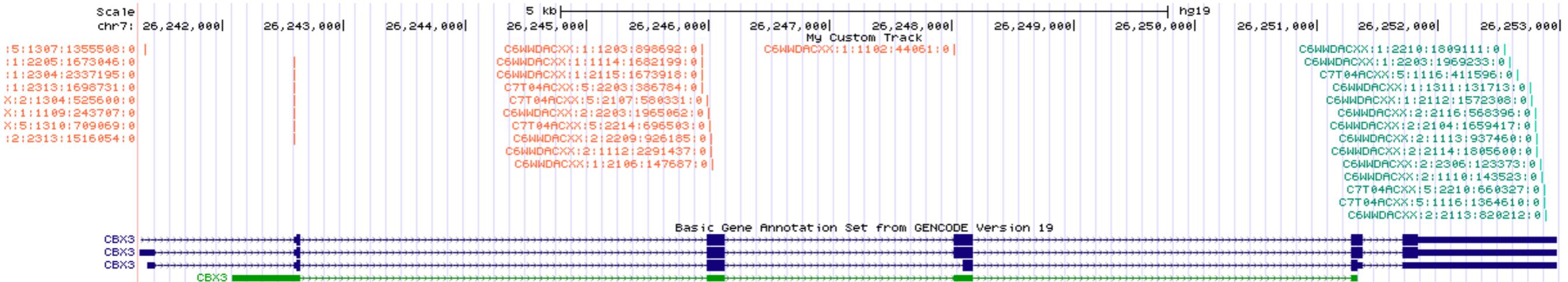
- Zimmer specific insertions:
 - MFF_chr15: freq. in AFR
 - FAM136A_chrA: rare variant
- Snyder specific insertions:
 - ANPEP_chr13: freq. in ASN
 - PPIA_chr4: freq. south EUR
 - PRKRA_chr3: freq. in ASN



CBX3: Insertion Point



CBX3: Parental



New retroCNVs

- TENM4
Small segment 3'UTR
Intergenic insertion close to ORs (3kb)
"neural development, regulating the establishment of proper connectivity within the nervous system"
- FAM230
Could be a huge deletion (only evidence from one extremity)
Intergenic - gene desert
unknown function
- ANKDR36
3'UTR (only evidence from one extremity)
Intragenic (NBPF25P)