

Schematic alignment of retrocopies encoded by the reference genomes.

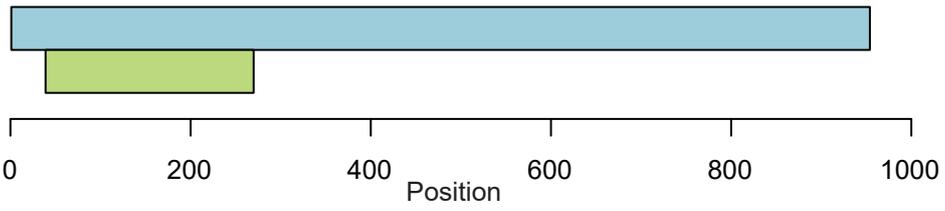
The size and relative location of parental and child copies are drawn to scale. The parental genes and retrocopies were marked in blue and green, respectively. We translated retrocopies by aligning parental proteins against retrocopies with exonerate (Slater and Birney 2005). Frame-shifting indels and premature termination codons were marked as “F” and “*”, respectively. Some retrocopies (e.g., *ENSMUSG00000084064*) do not have such mutations. Finally, the remaining longest continuous coding regions were highlighted in light red. For each gene pair except *retro-Kmt2d*, one panel is presented. In the case of *retro-Kmt2d*, since the retroposed region is tiny relative to the parental locus, one additional enlarged version is also shown. In the case of “*Super*” which involves four parental genes, we do not show a figure given its complex structure. Notably, two parental gene derived sequences already accumulated one premature termination codon, while the other two sequences do not harbor any loss-of-function mutations.

<i>ENSANGG00000011308</i>	<i>ENSGALG0000000312_r</i>	<i>ENSMUSG00000083549</i>
<i>ENSDARG0000002400_r</i>	<i>ENSGALG00000011896_r</i>	<i>retro-Rplp0</i>
<i>ENSDARG00000032849_r</i>	<i>ENSGALG0000001041_r</i>	<i>retro-Eef1g</i>
<i>ENSDARG00000011511_r</i>	<i>ENSMUSG00000024866_r</i>	<i>ENSG00000218772</i>
<i>ENSDARG00000076317_r</i>	<i>retro-Kmt2d</i>	<i>ENSG00000254722</i>
<i>ENSDARG00000091935</i>	<i>ENSMUSG00000084064</i>	<i>ENSG00000230535</i>
<i>ENSGALG0000006009_r</i>	<i>ENSMUSG00000083892</i>	

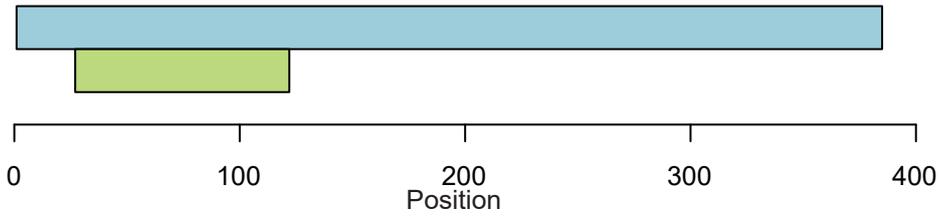
Color code

- Parental gene
- Child gene
- Longest continuous sequence
- F Frame shift
- * Stop codon

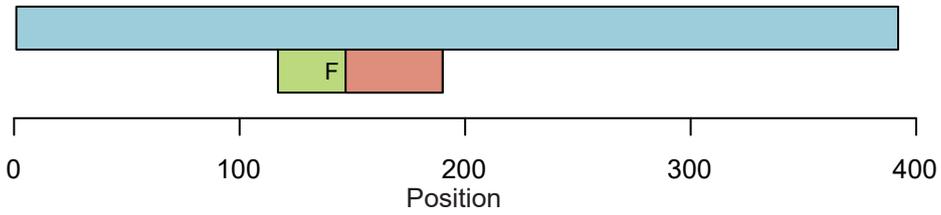
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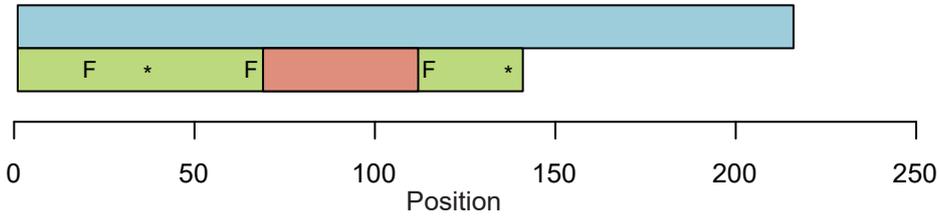
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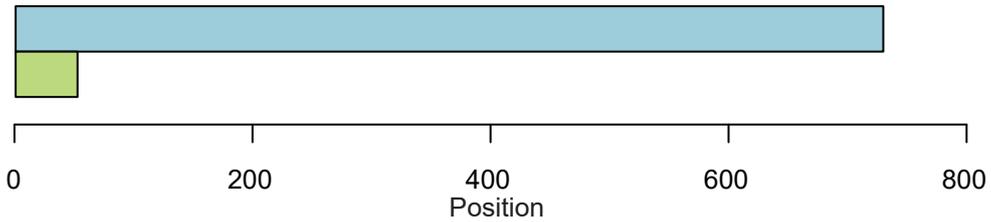
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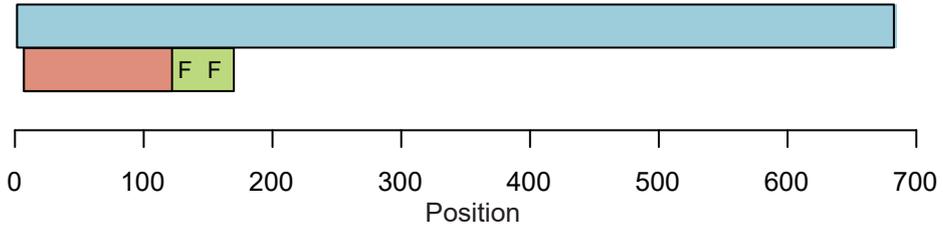
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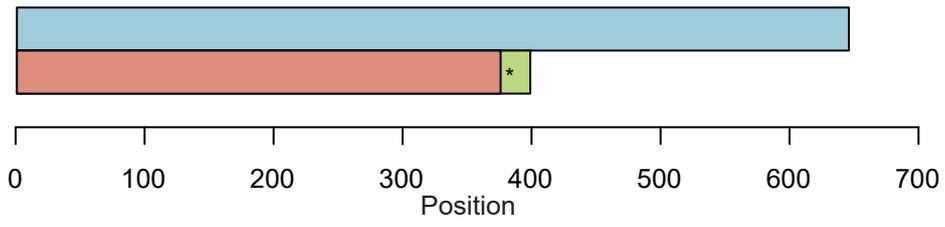
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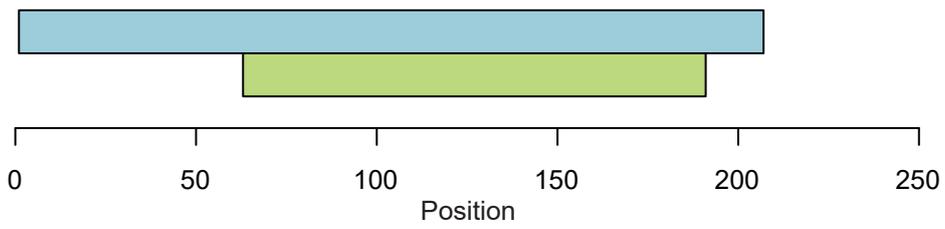
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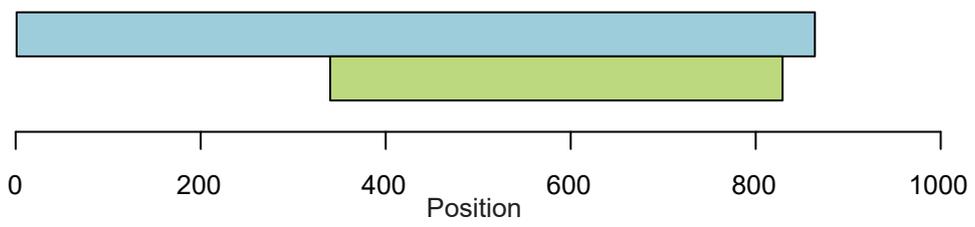
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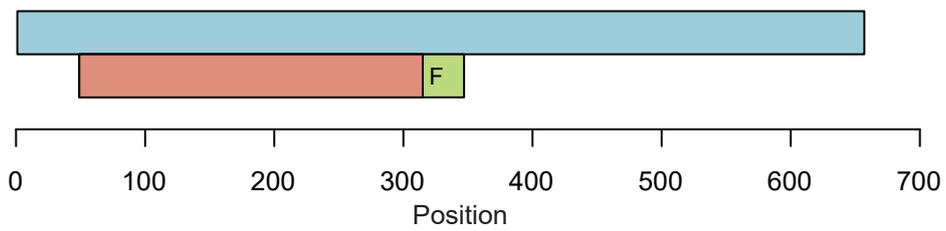
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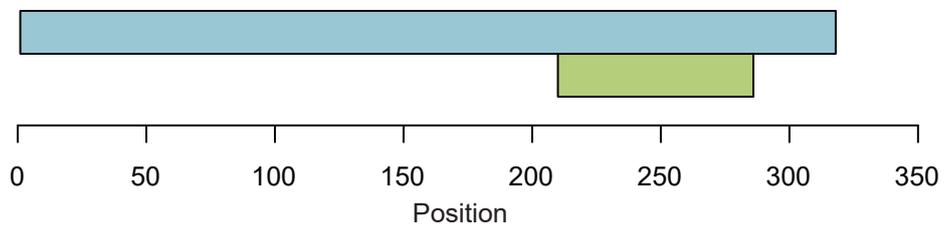
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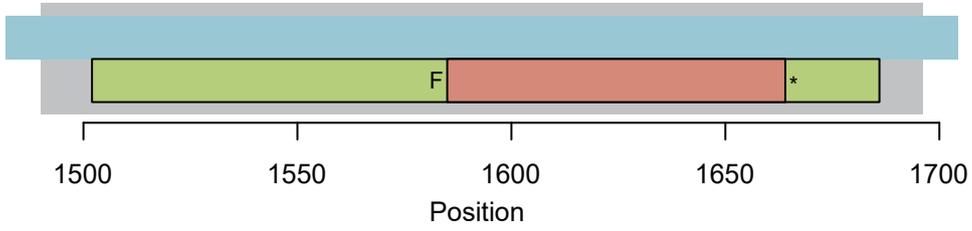
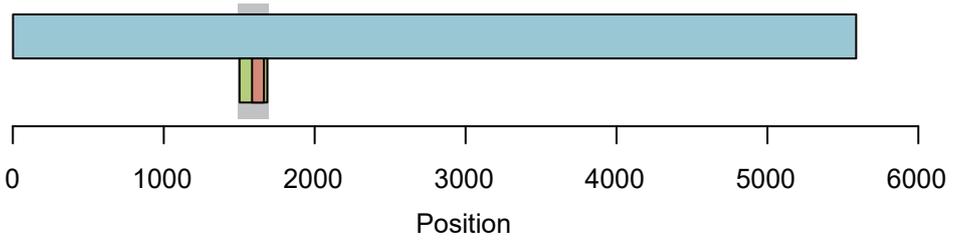
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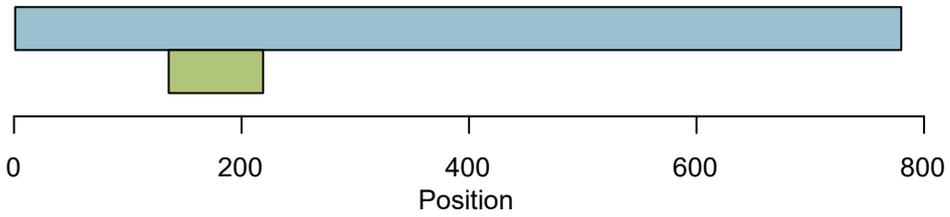
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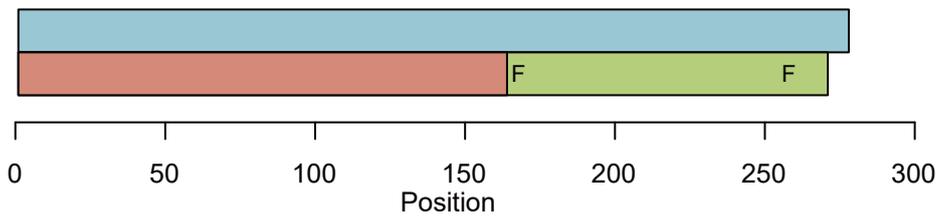
retro-Kmt2d



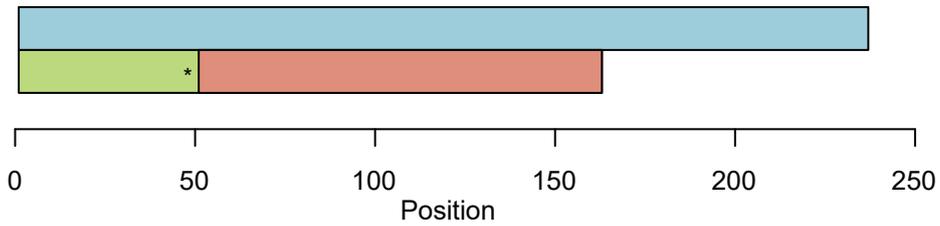
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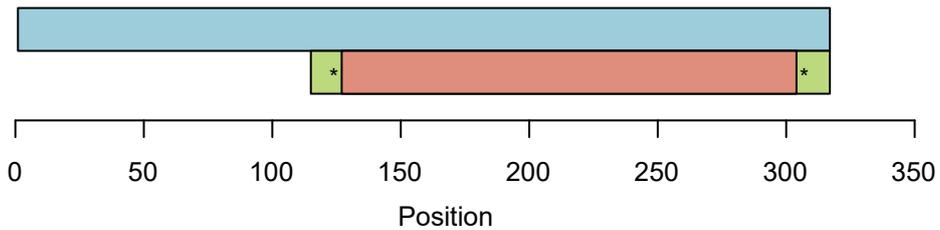
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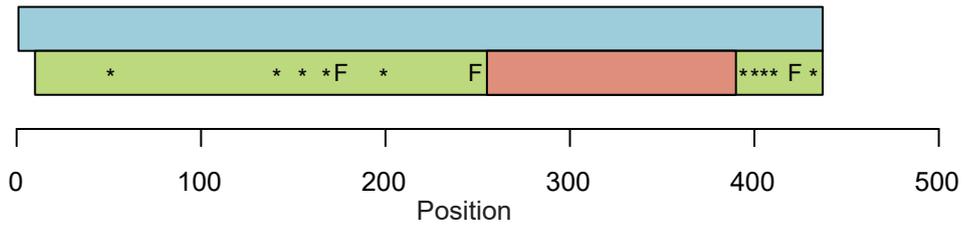
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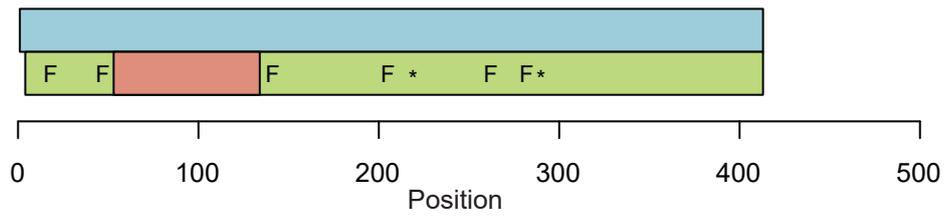
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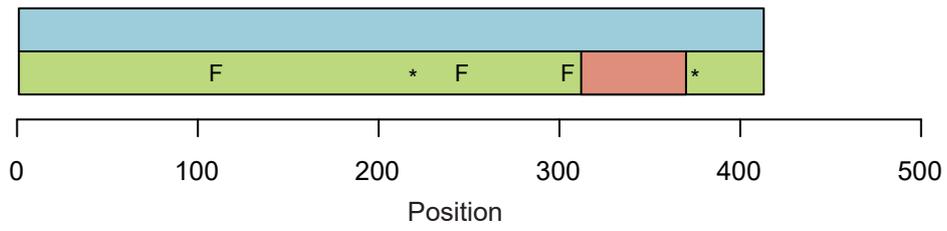
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ENSG00000254722



ENSG00000230535

