

Supplementary information 1: A non-redundant list of orthologous genes in *Staphylococcus aureus* genomes. The row and column denote the row and column in figure 2 and figure 3A in main text. There are 72 rows and 86 columns representing a total of 6122 open reading frames in *S. aureus* pan-genome.

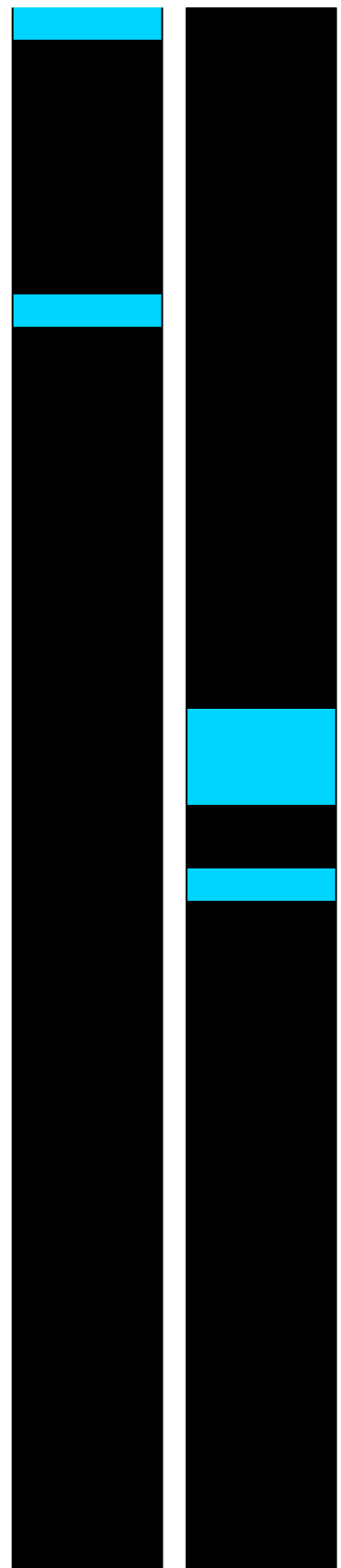
The NRID was assigned in this study as method of referring to the genes

The accession numbers are those assigned by genbank to the respective gene

The color codes for ORFs match those used in the figures. Blue represents the common minimal genome, red the shared variable genes, light blue the unique gene and black represents genes that are absent.

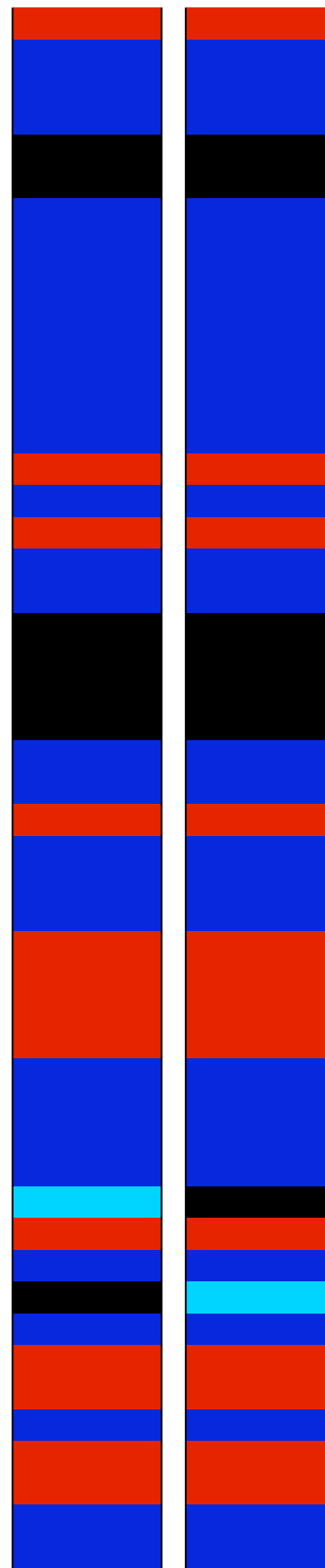
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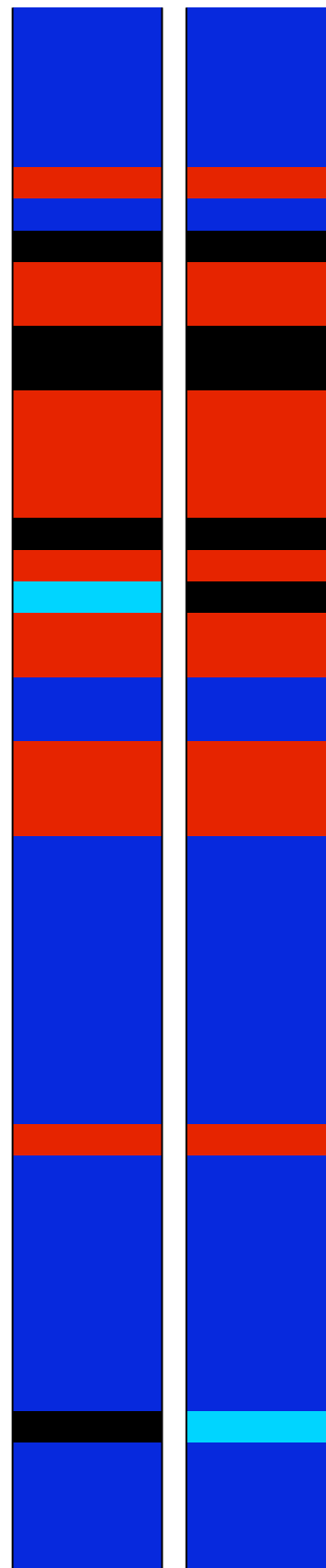
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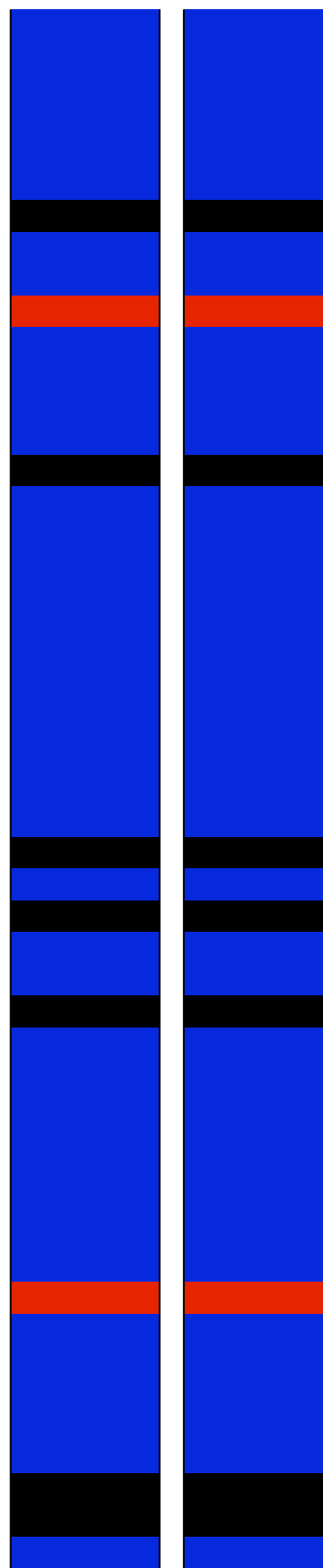


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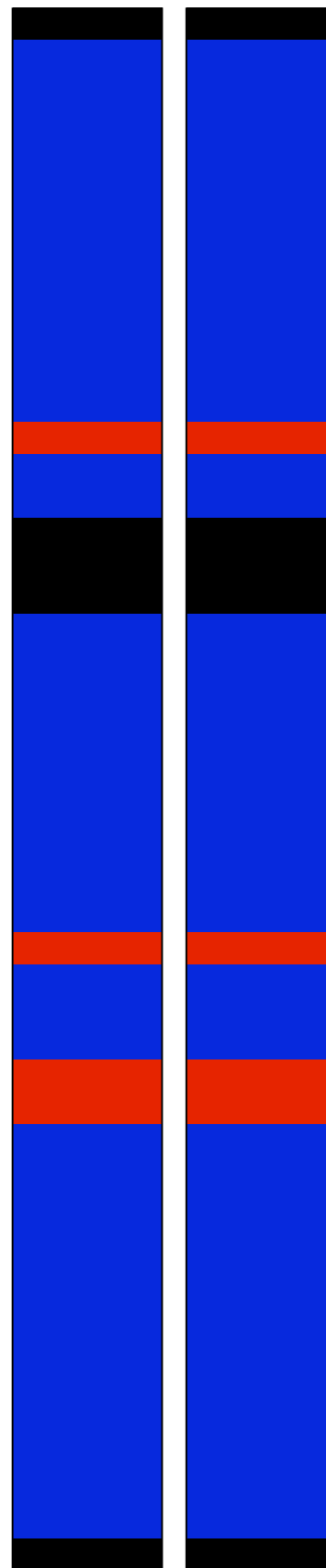
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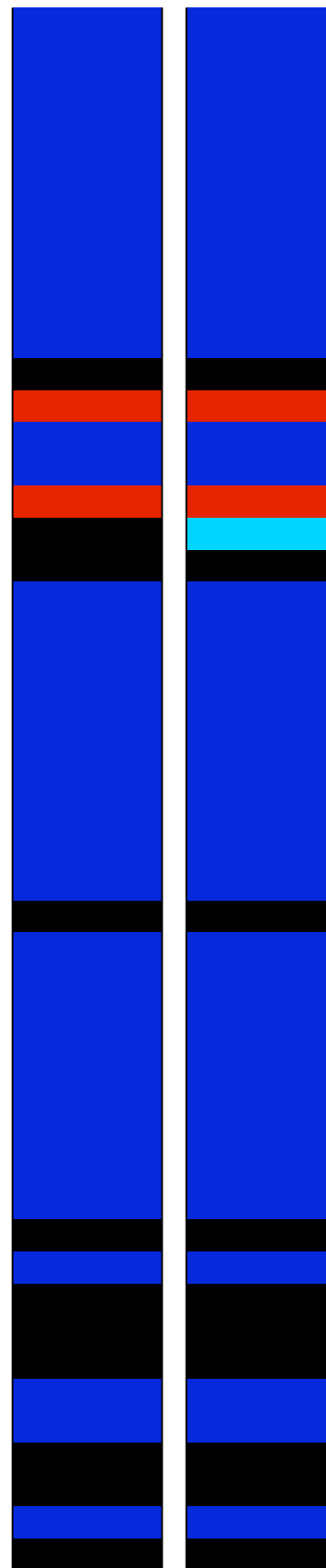


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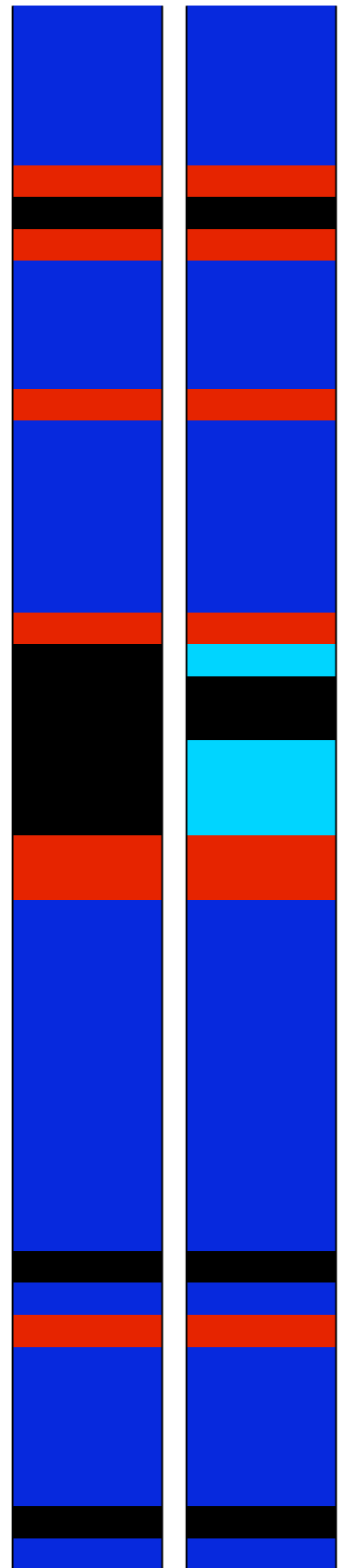
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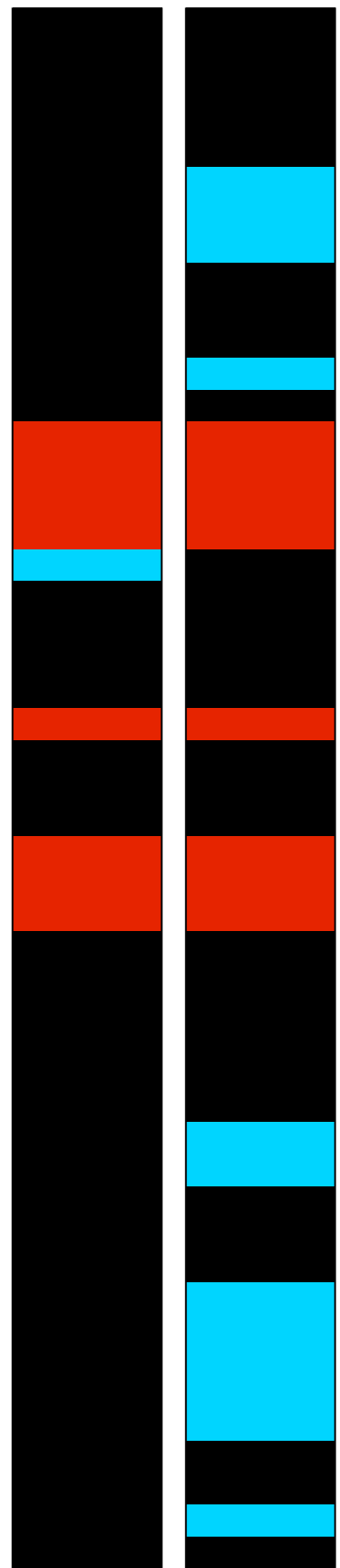
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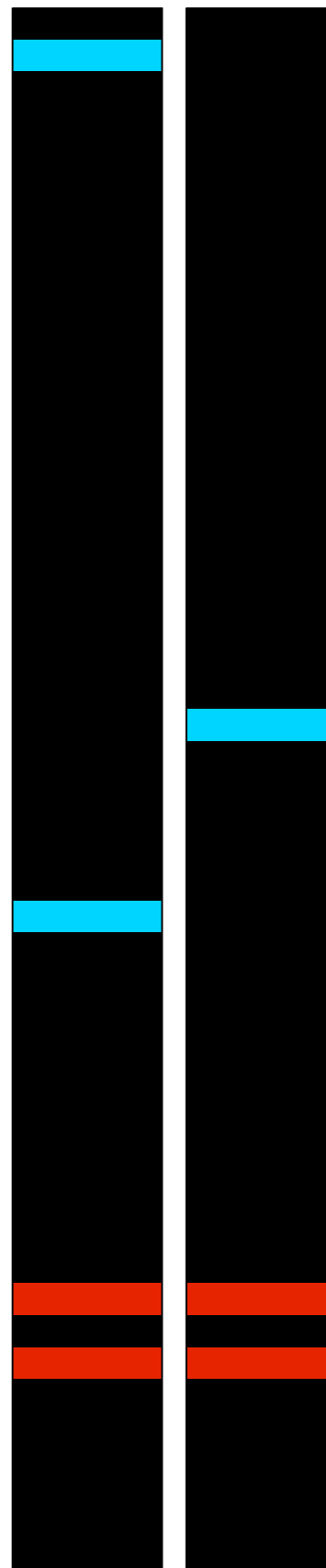
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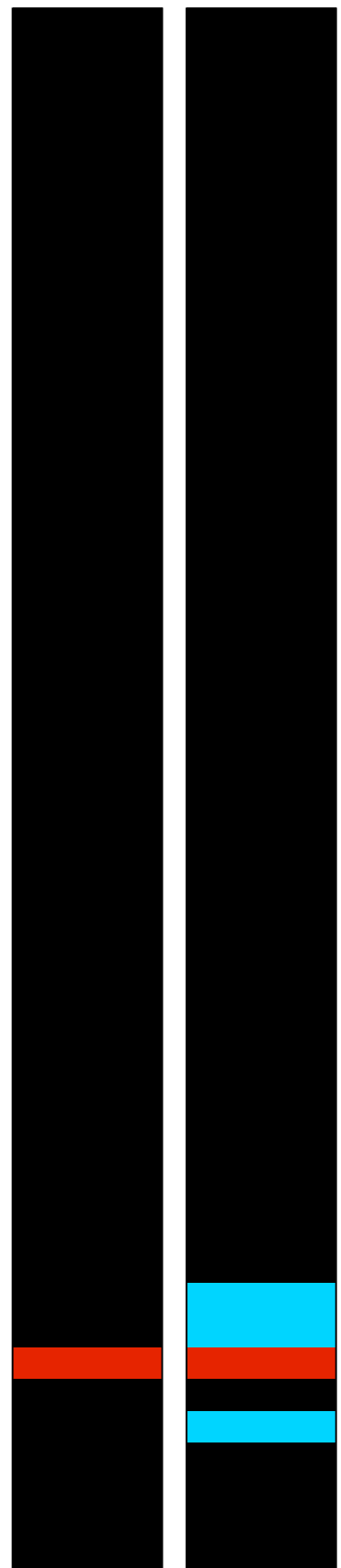
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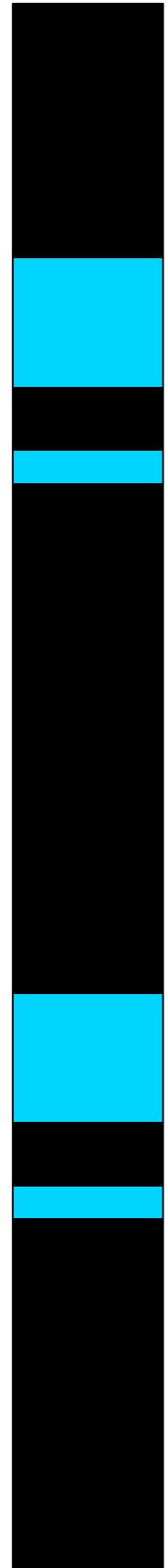
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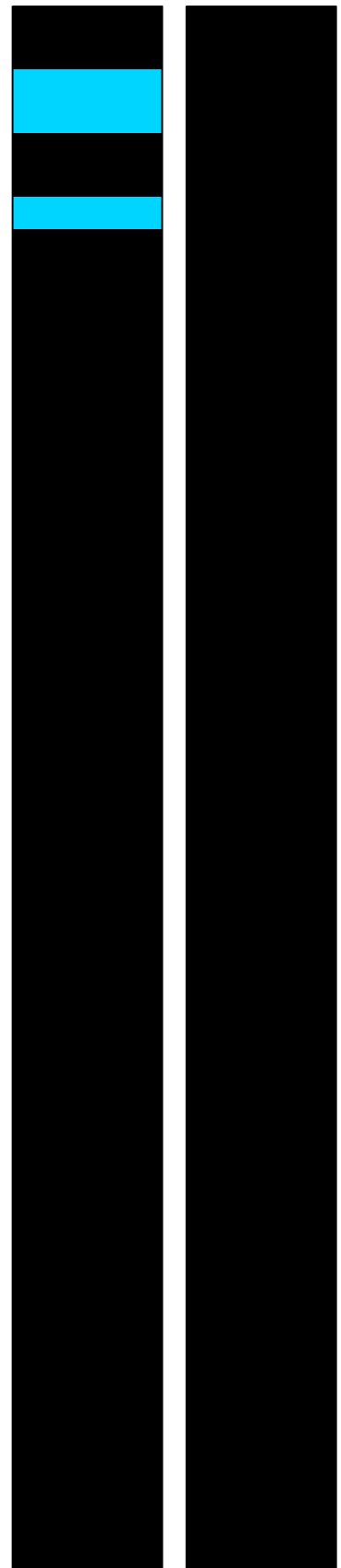
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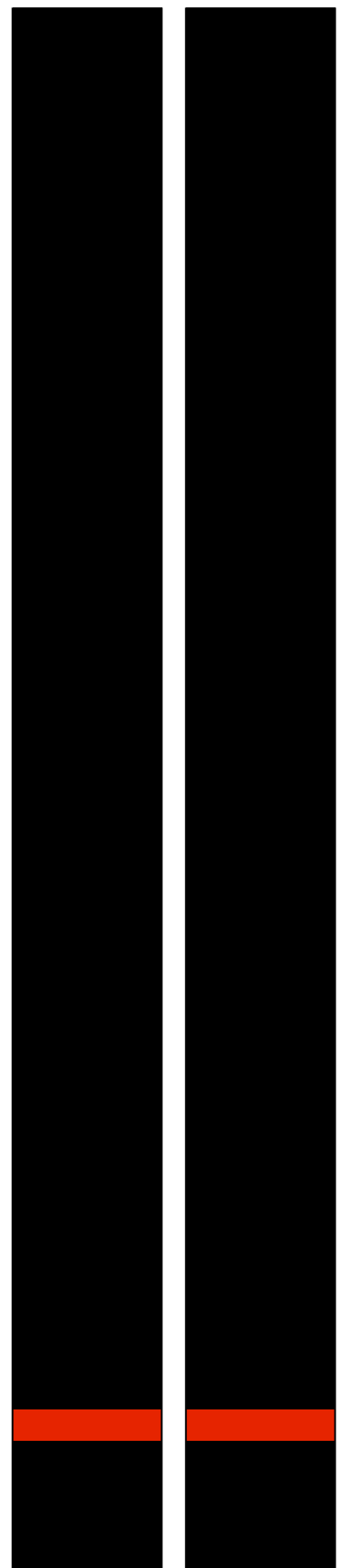
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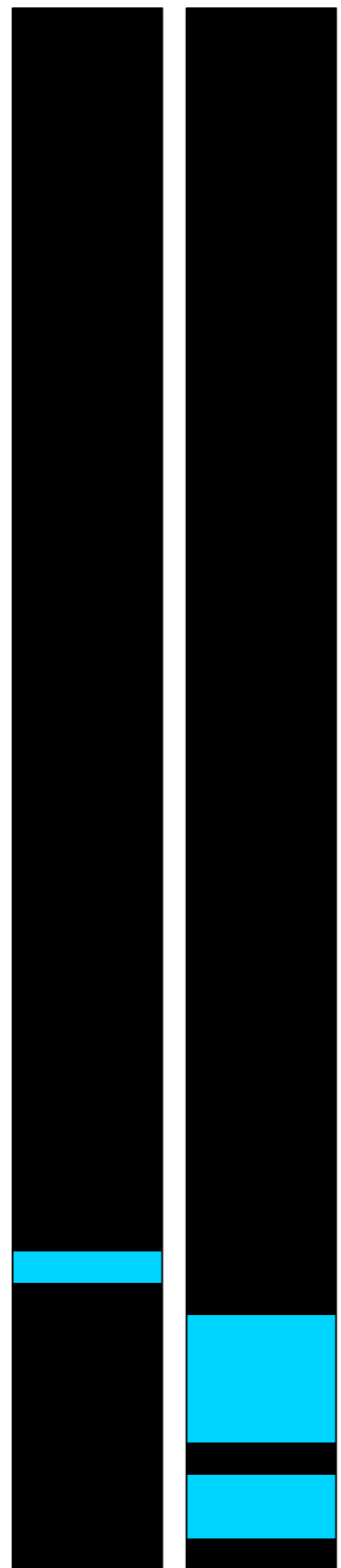
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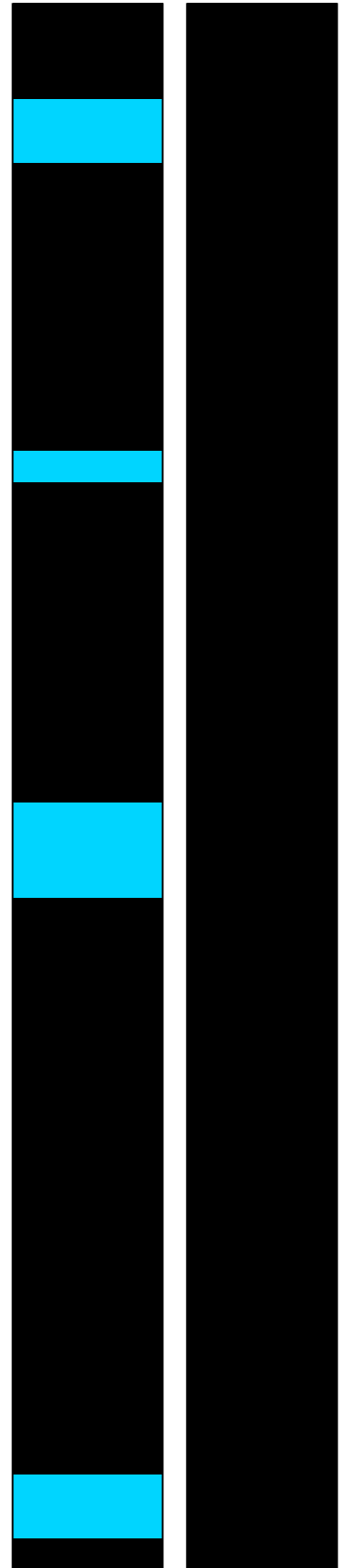
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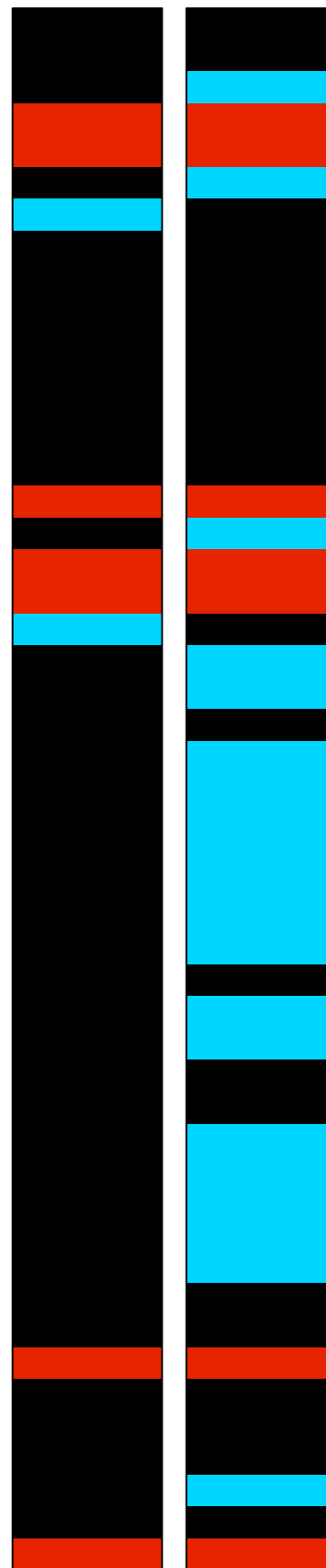
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