

Association of deletion strains by co-clustering

page 2 - 48: **Mapping the rapamycin- and cycloheximide-induced amino acid profile with that of the knock out collection**

hierarchical-clustering of all deletion strains with wt samples treated with 50 nM rapamycin or 890 nM cycloheximide

distance matrix: pairwise Mahalanobis distance

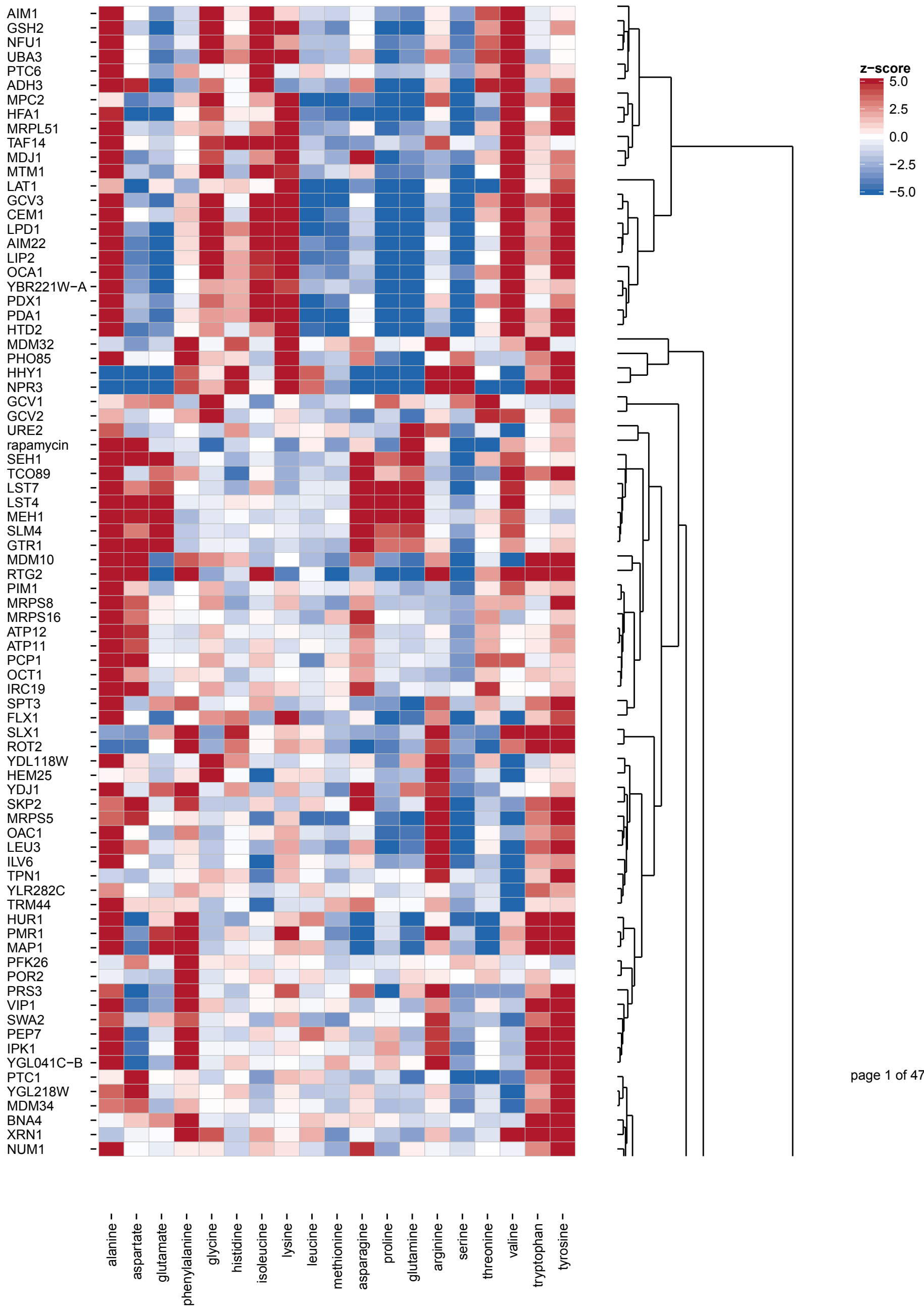
agglomeration method: Ward's method

page 49 - 95: **280 similarity clusters informative of gene function**

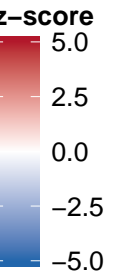
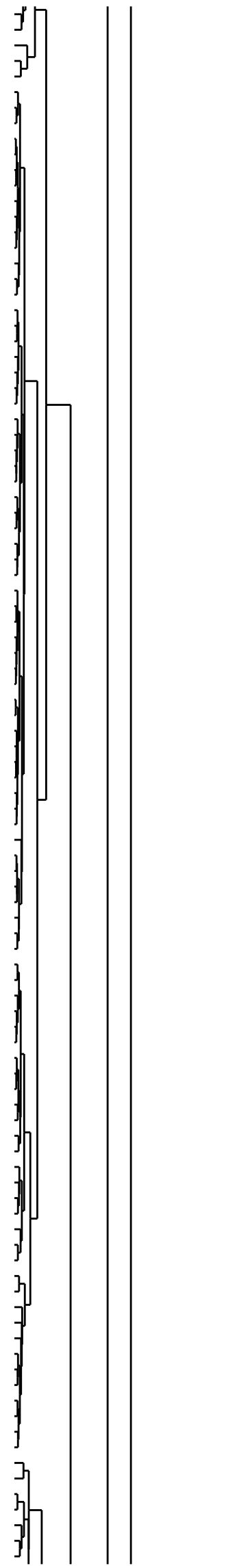
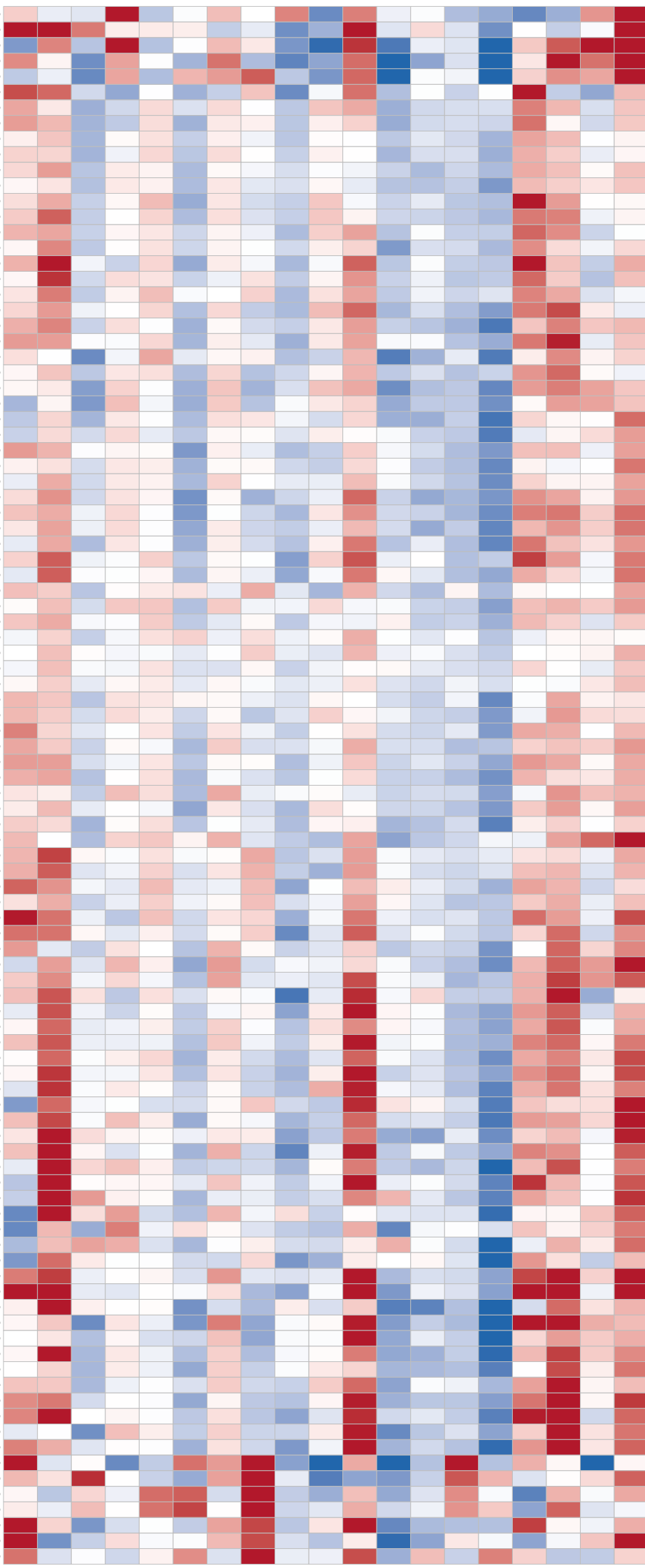
consensus-clustering of all deletion strains

optimal number of 280 clusters were identified using the adaptive branch pruning algorithm in the dynamicTreeCut package in R.

Mapping the rapamycin- and cycloheximide-induced amino acid profile with that of the knock out collection

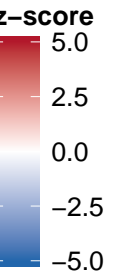
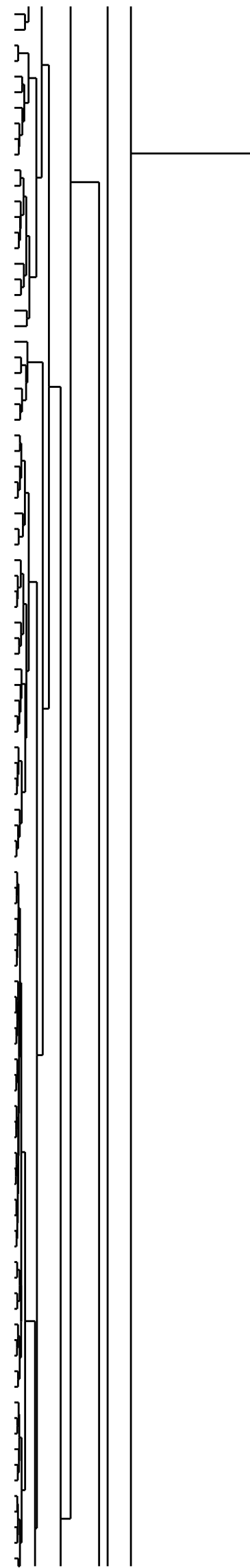
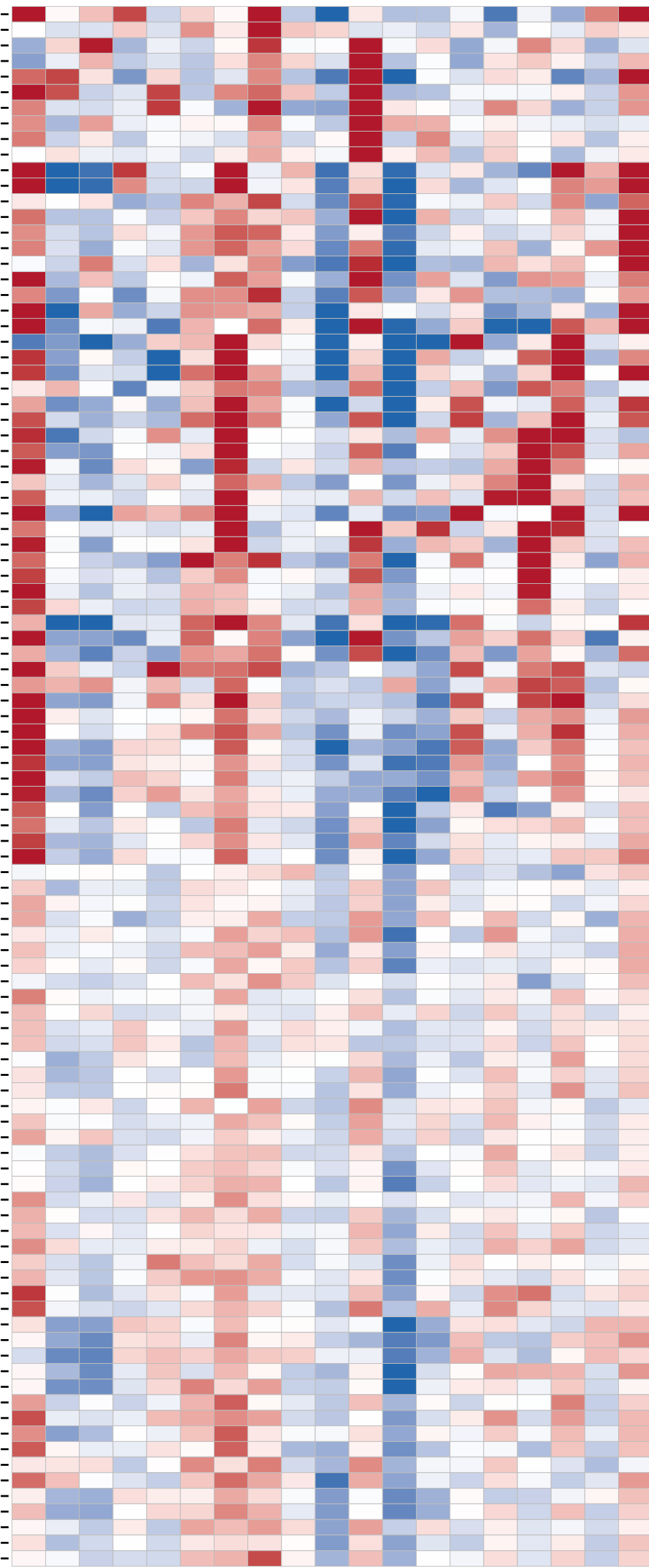


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 RNR1
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 SHU2
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 PPA2
 MSM1
 HER2
 MTF1
 SLT2
 MRPL33
 MRPL17
 FZO1
 UBC5
 RSM22
 MTG2
 ROX3
 GEP5
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 RPH1
 RRG9
 VPS33
 AEP1
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 ATP4
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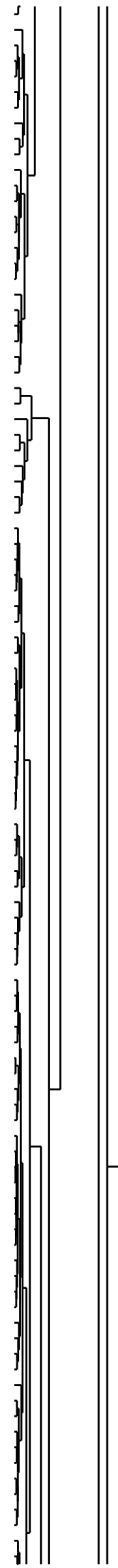
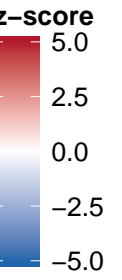
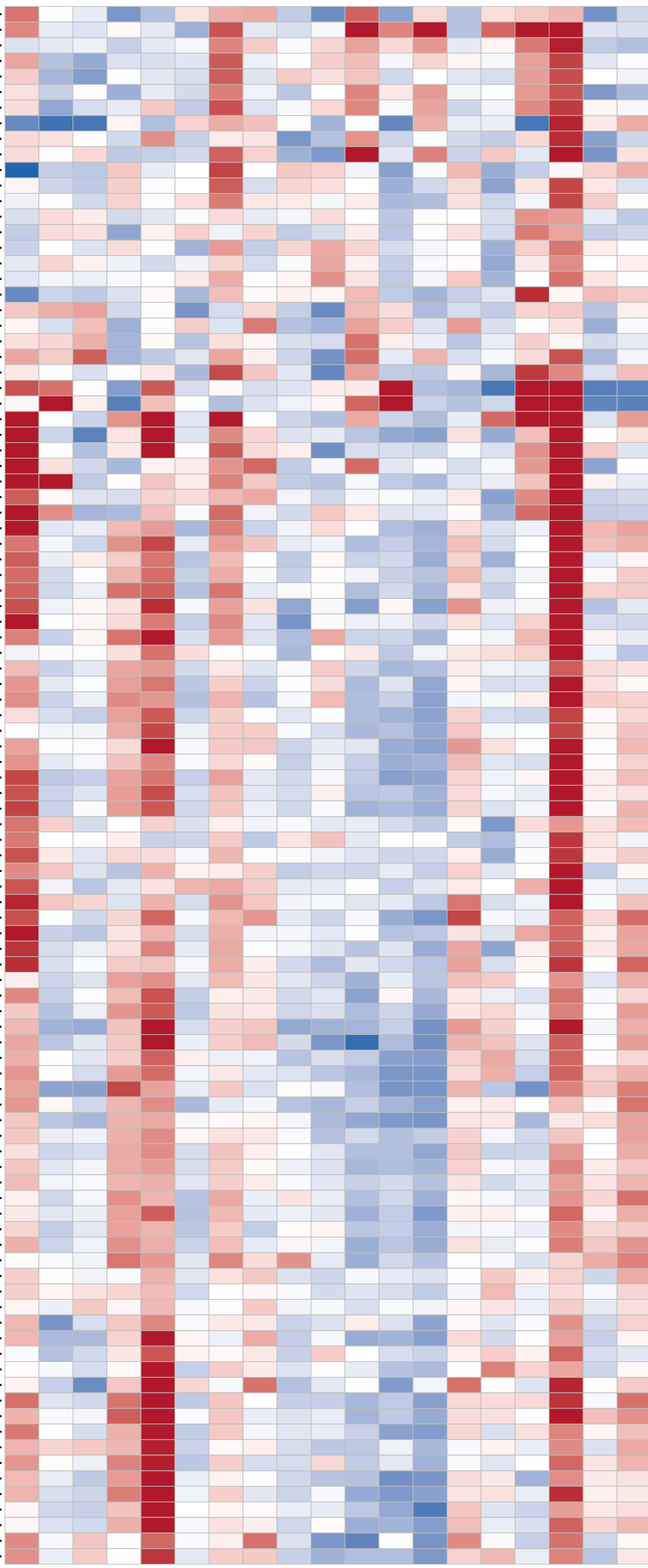
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 glutamine -
 arginine -
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 valine -
 tryptophan -
 tyrosine -

RPP1A
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 SFA1
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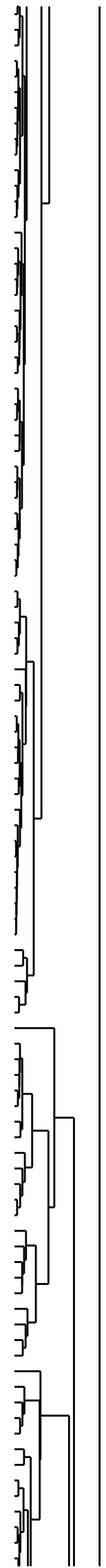
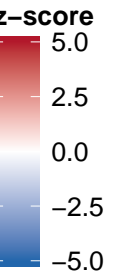
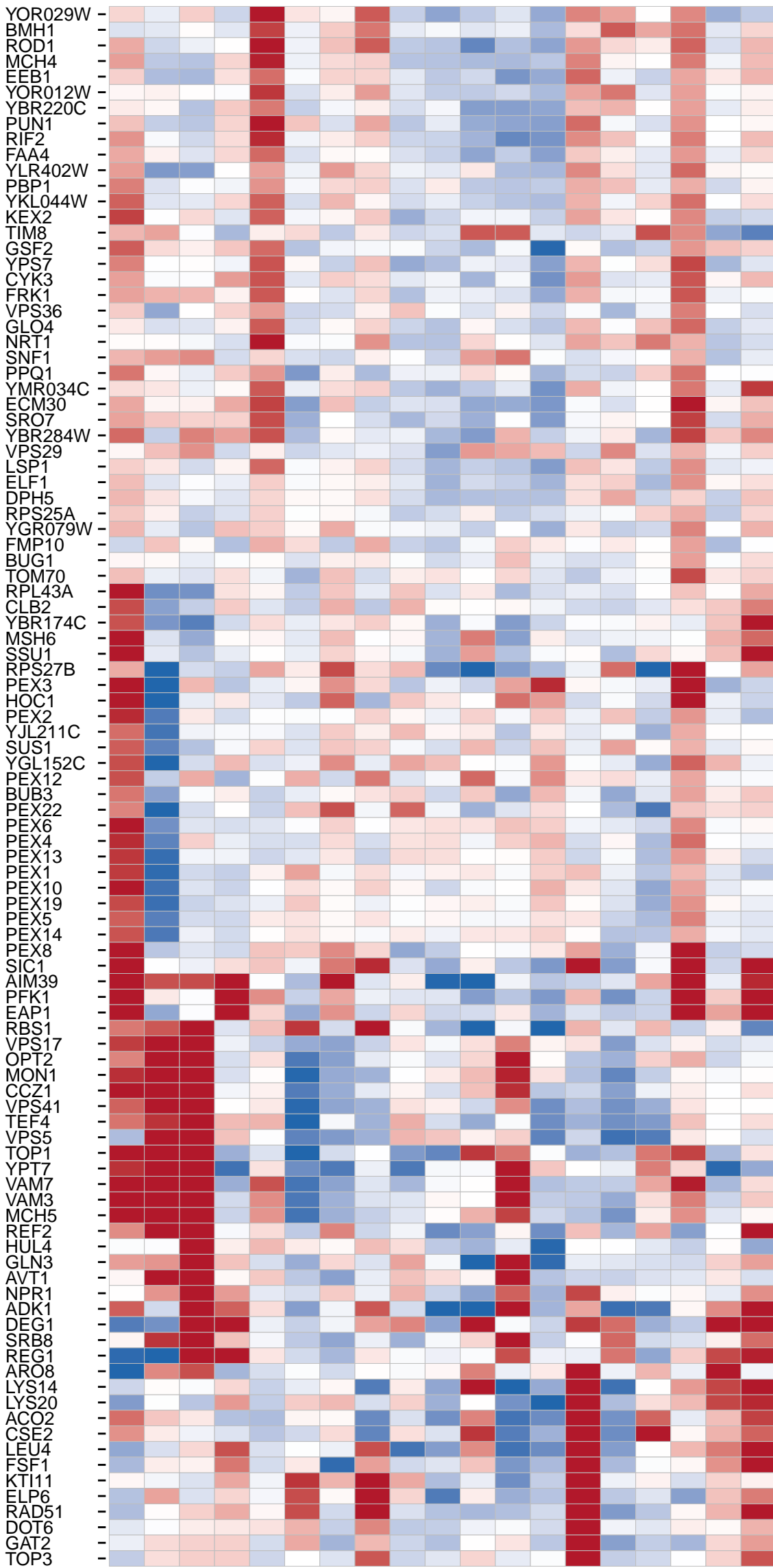


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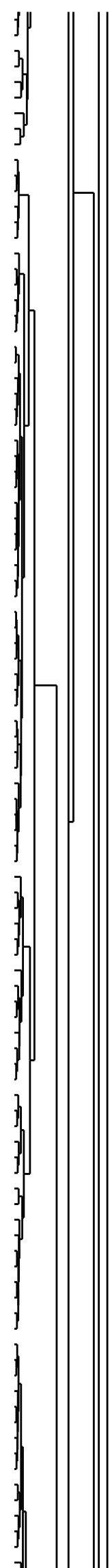
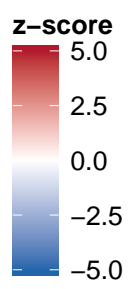
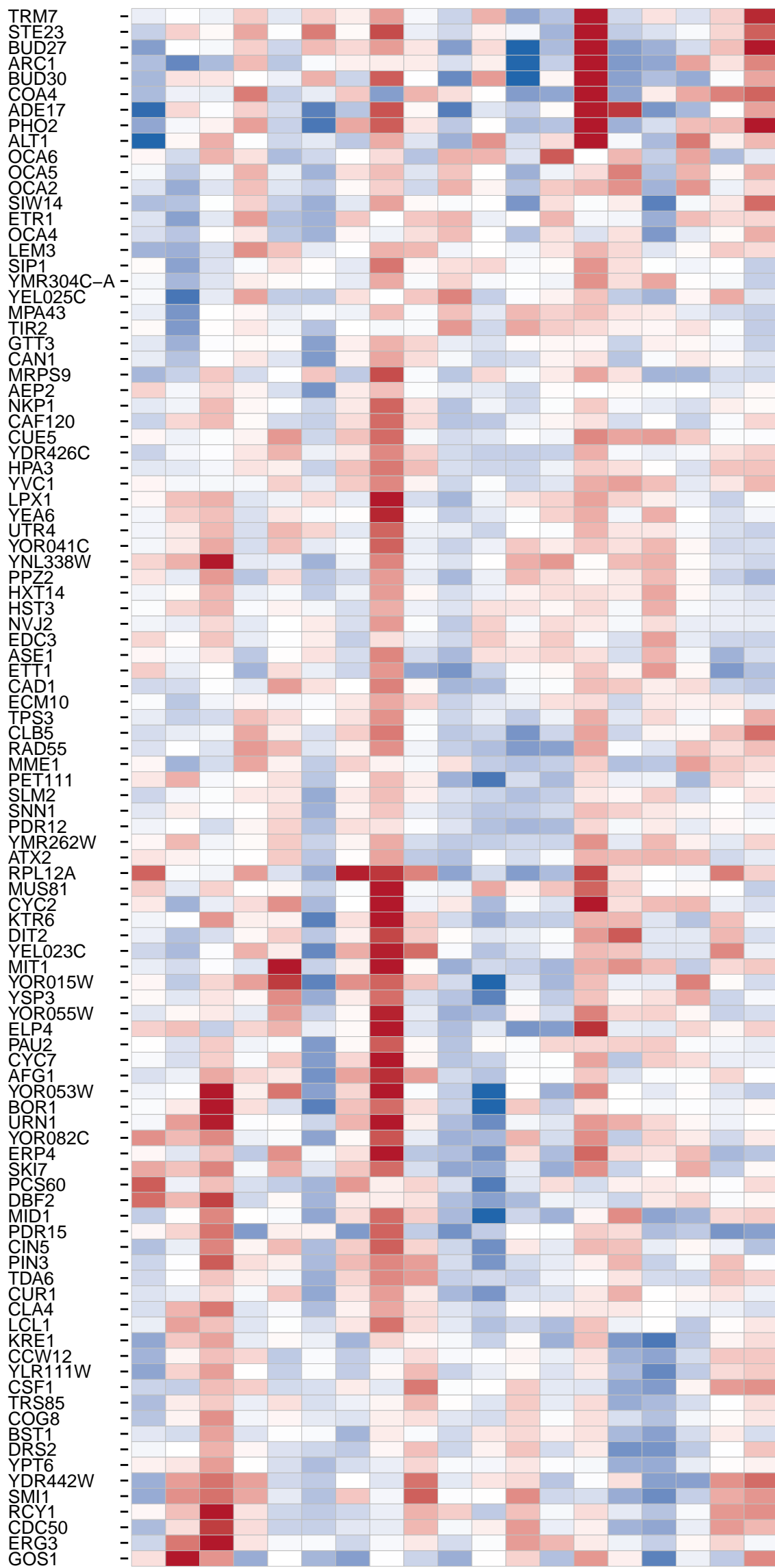
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SET2
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SIF2
HOS2
SET3
CDC73
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NUP120
LOA1
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YDR524C-B
TSR3
HSP12
TMA23
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RAD23
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UBP13
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SHU1
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GEA1
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GIM4
MAD3
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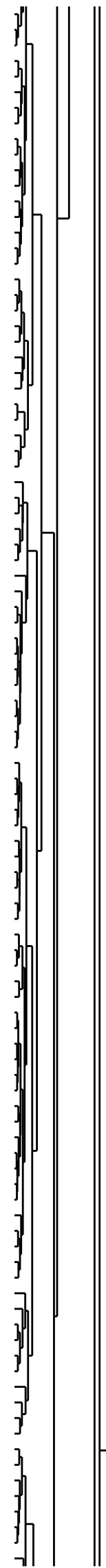
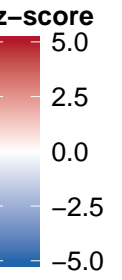
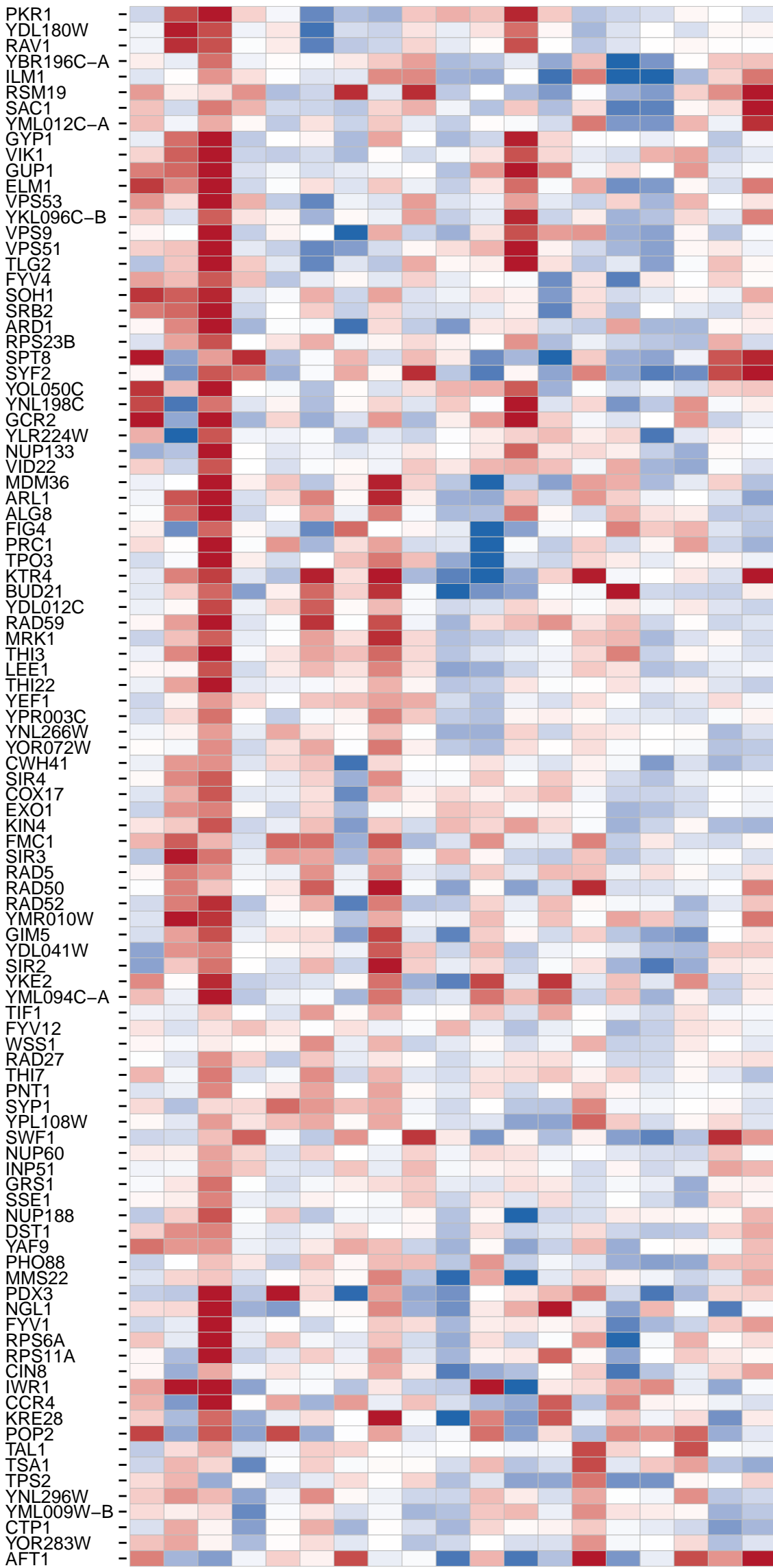
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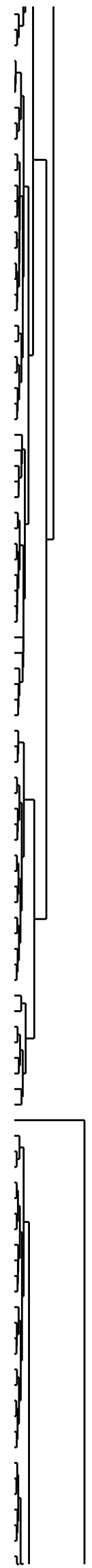
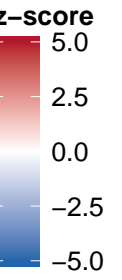
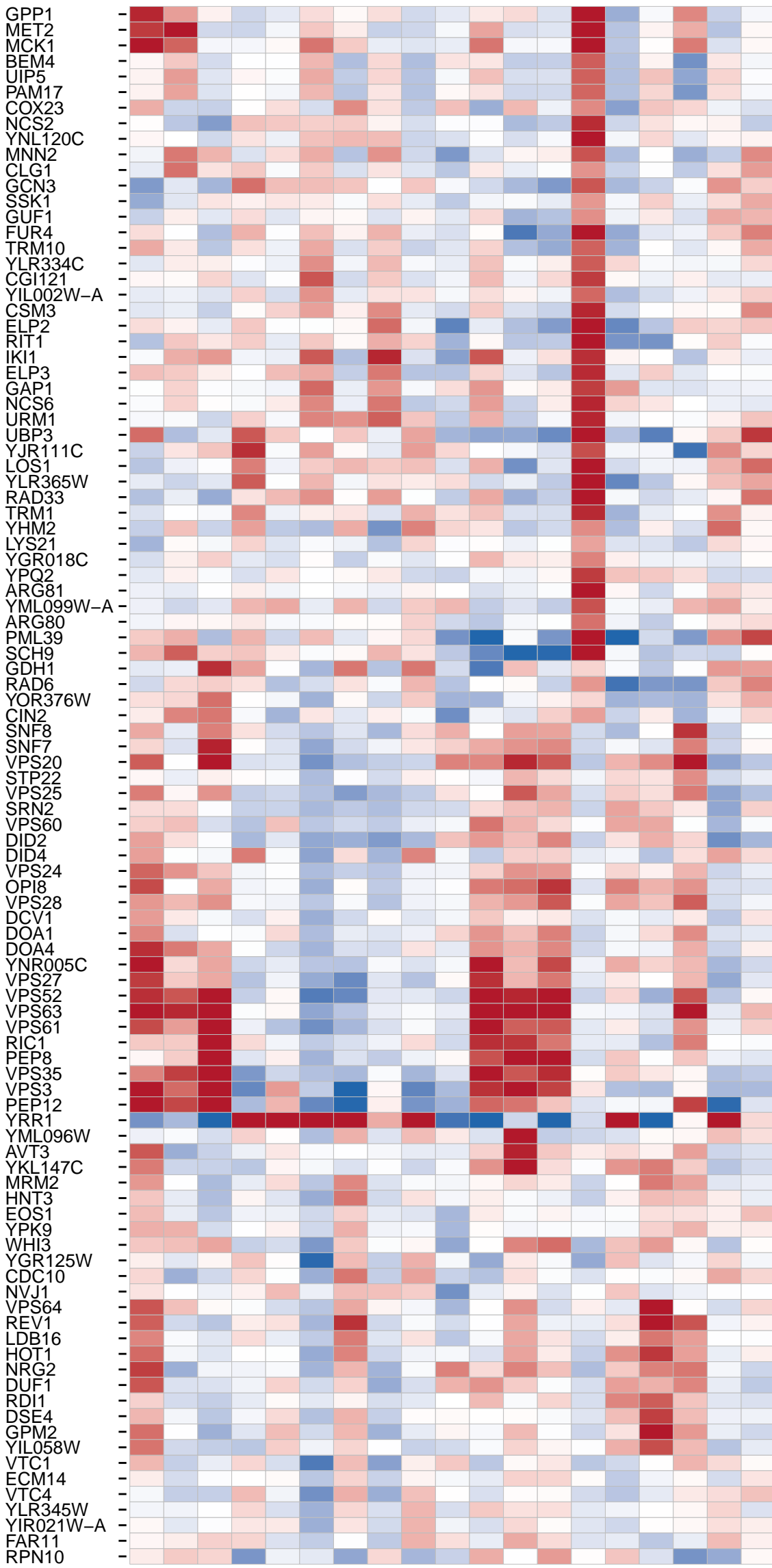
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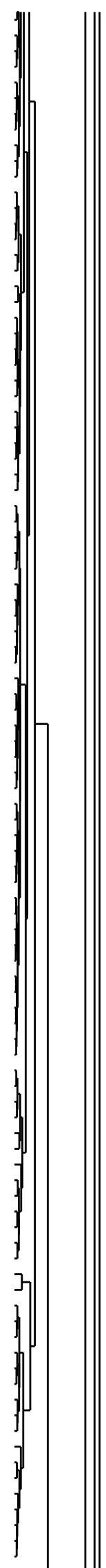
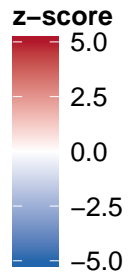
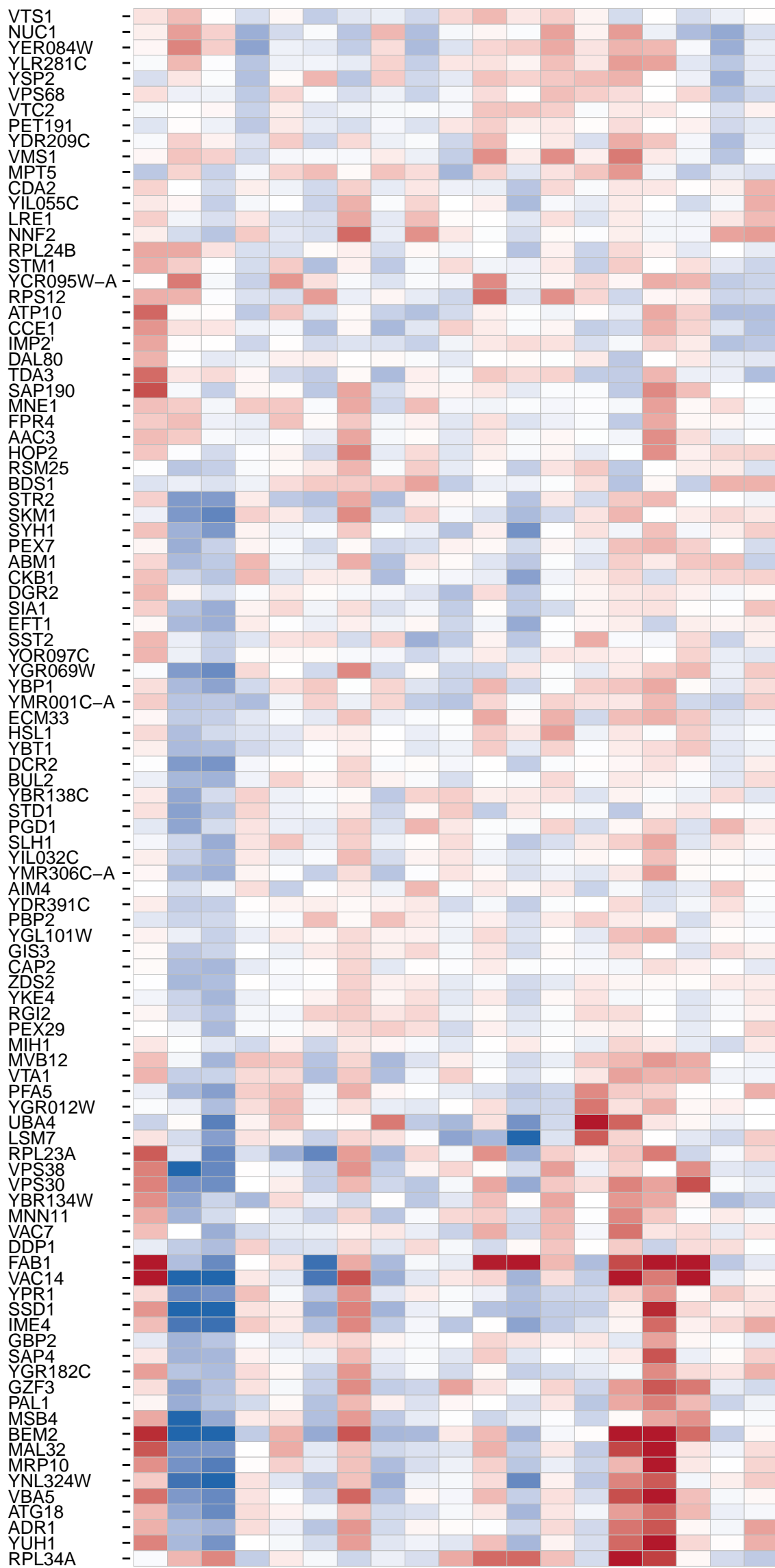
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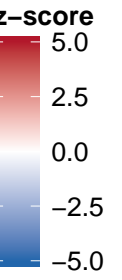
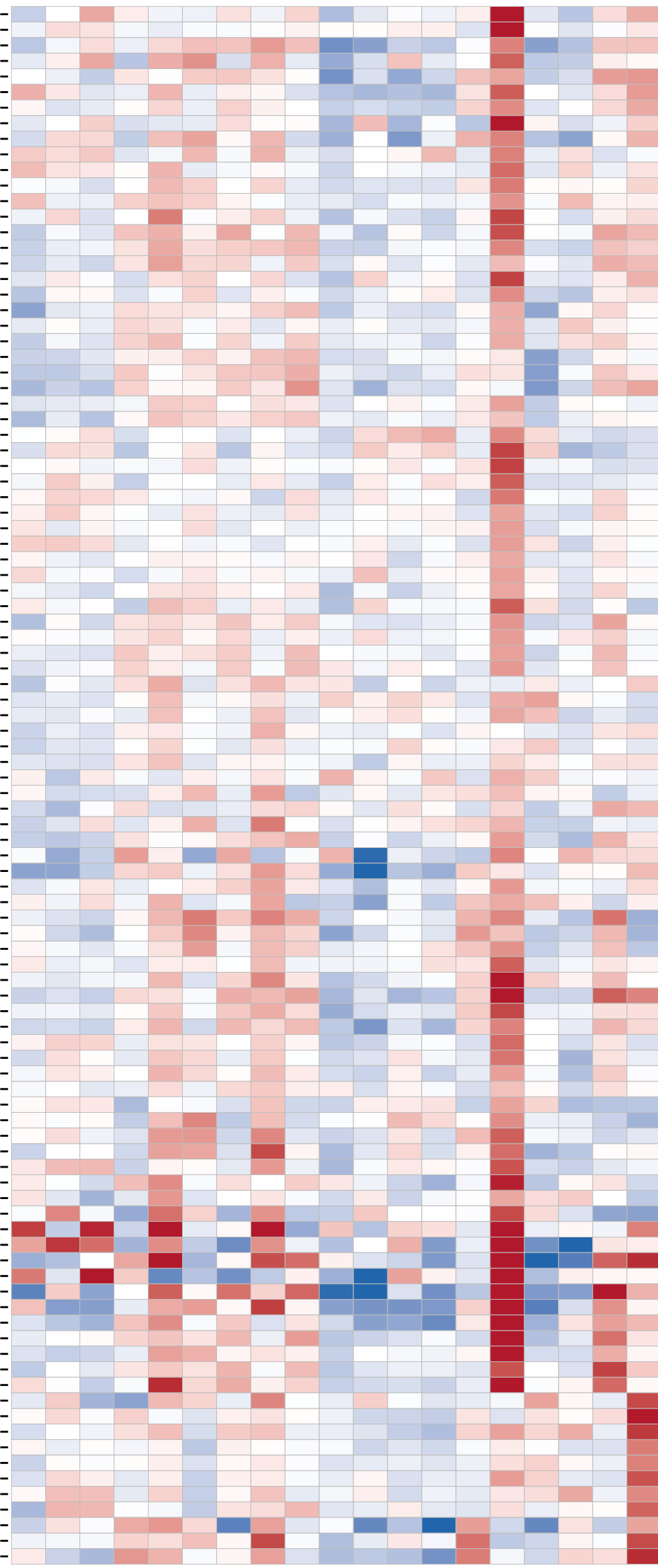


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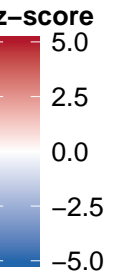
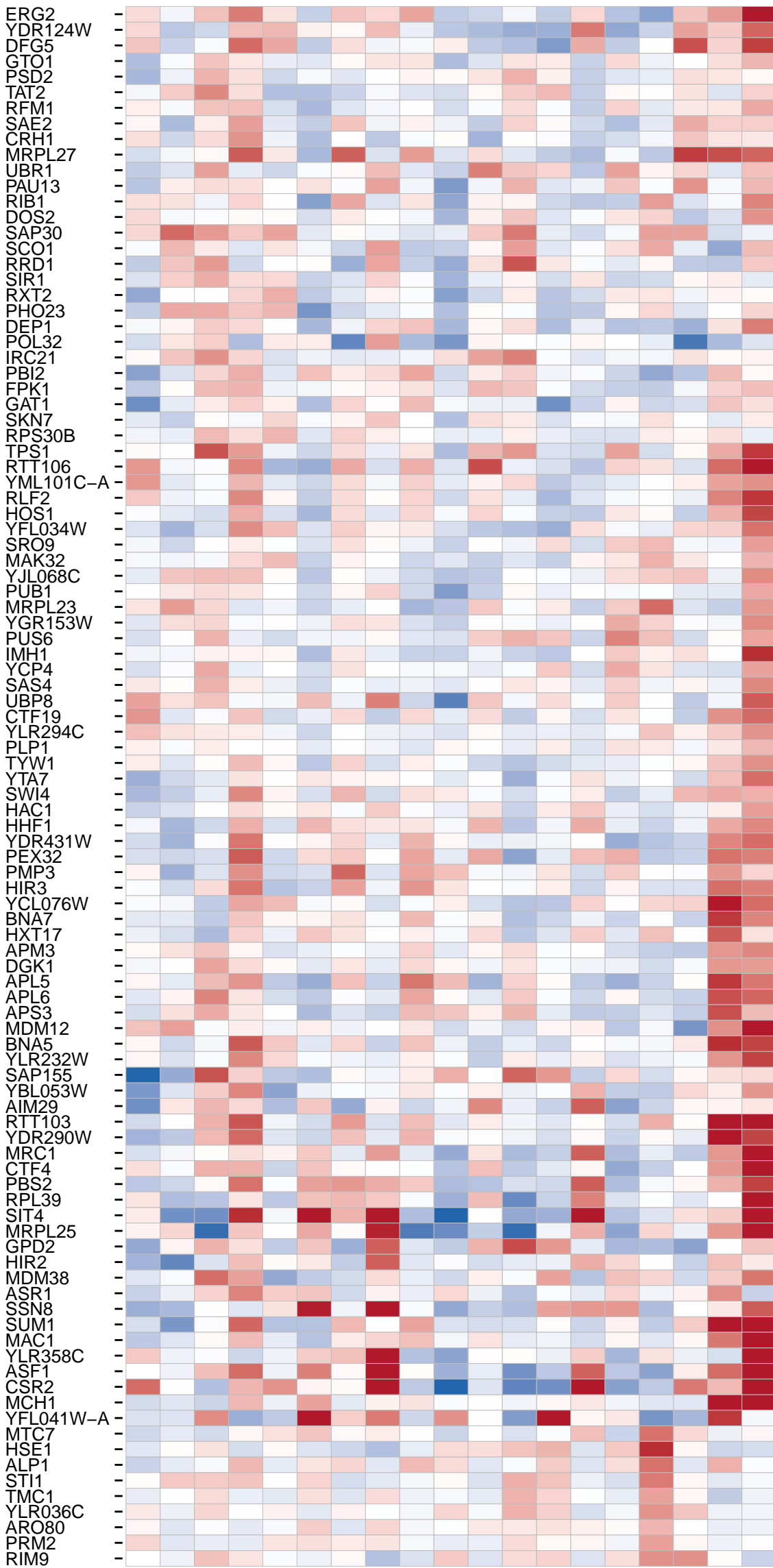


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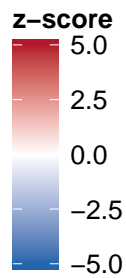
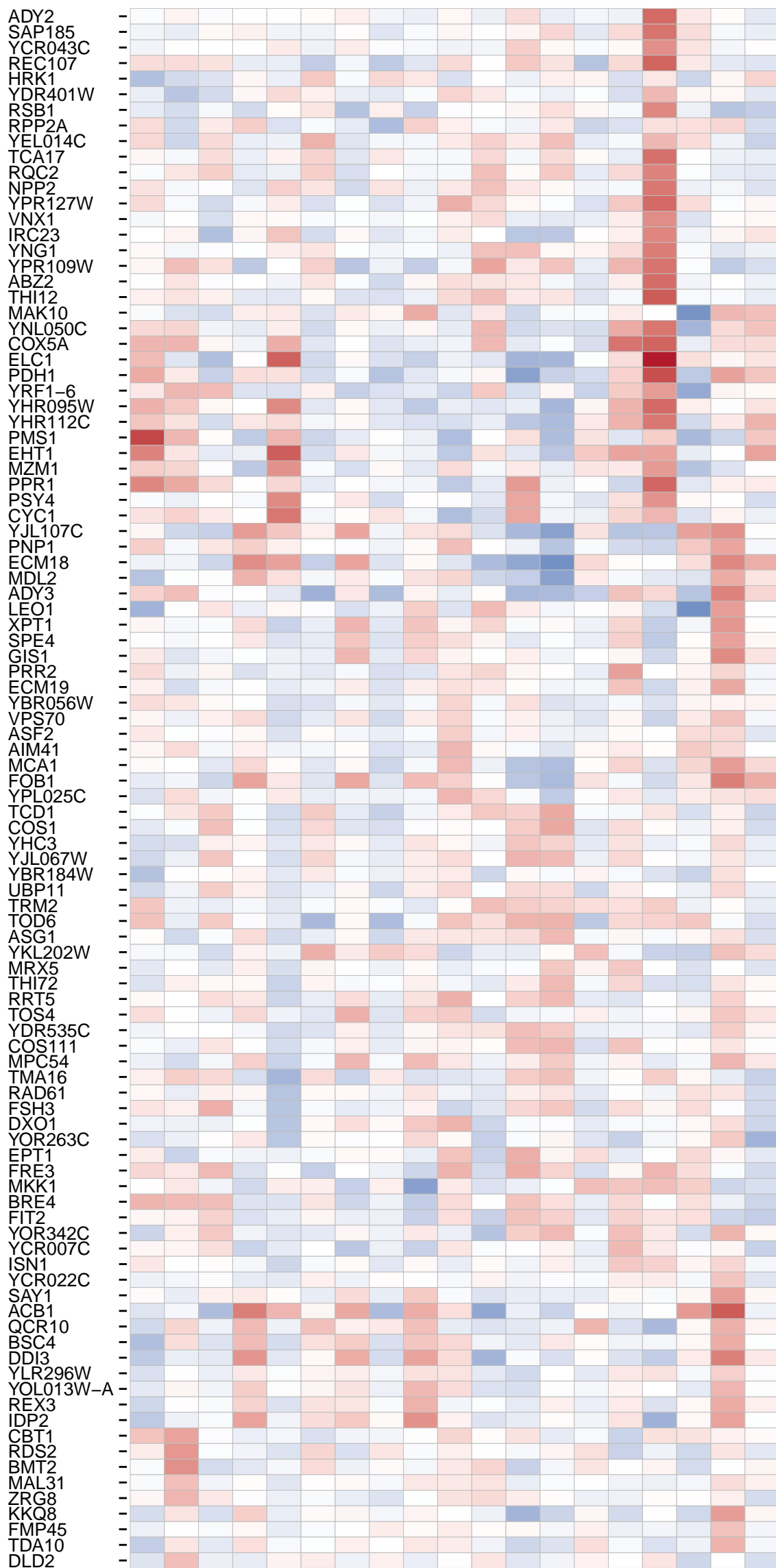
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 UPS2
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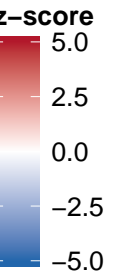
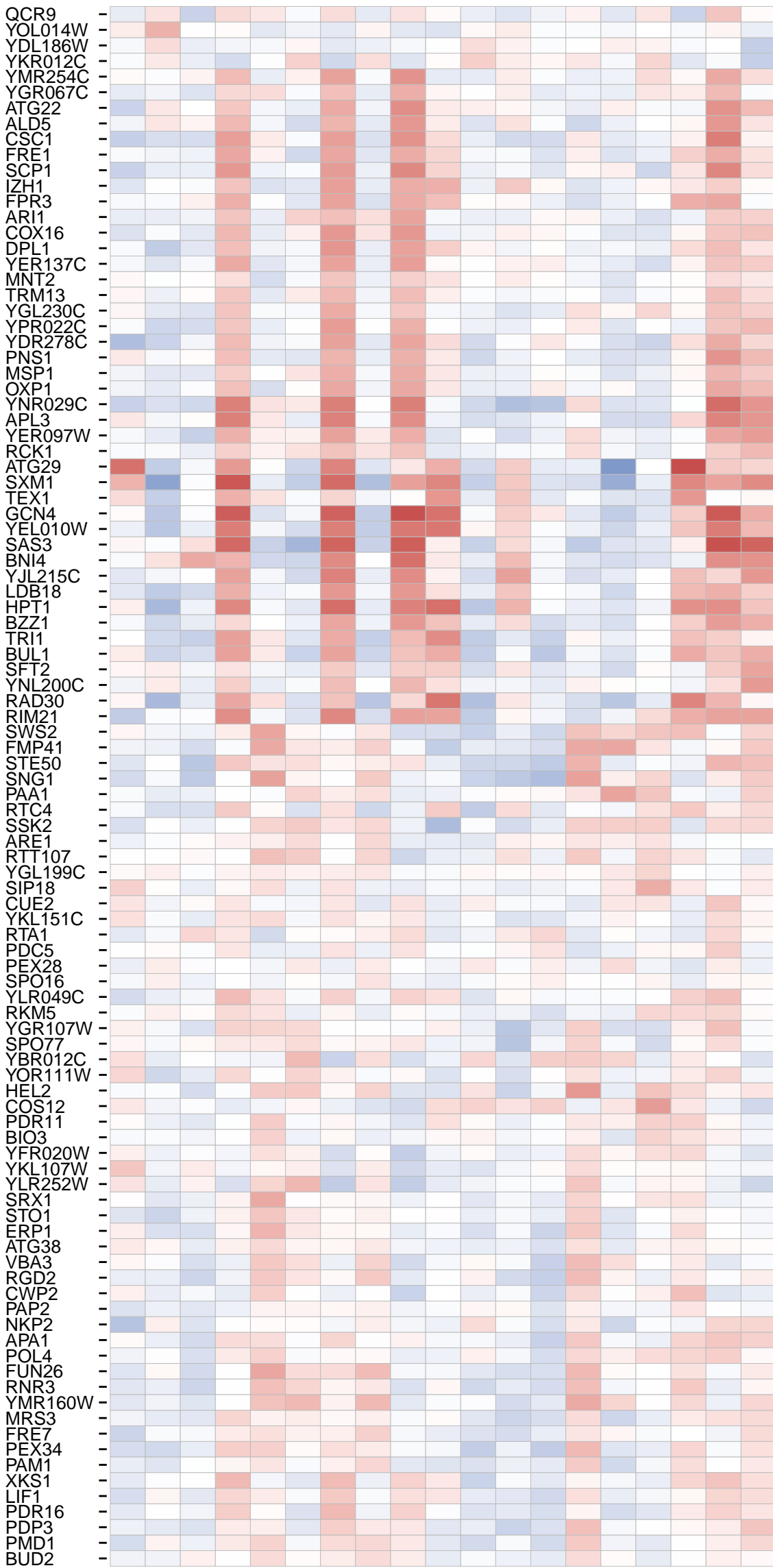
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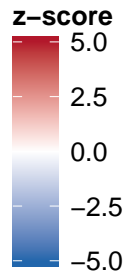
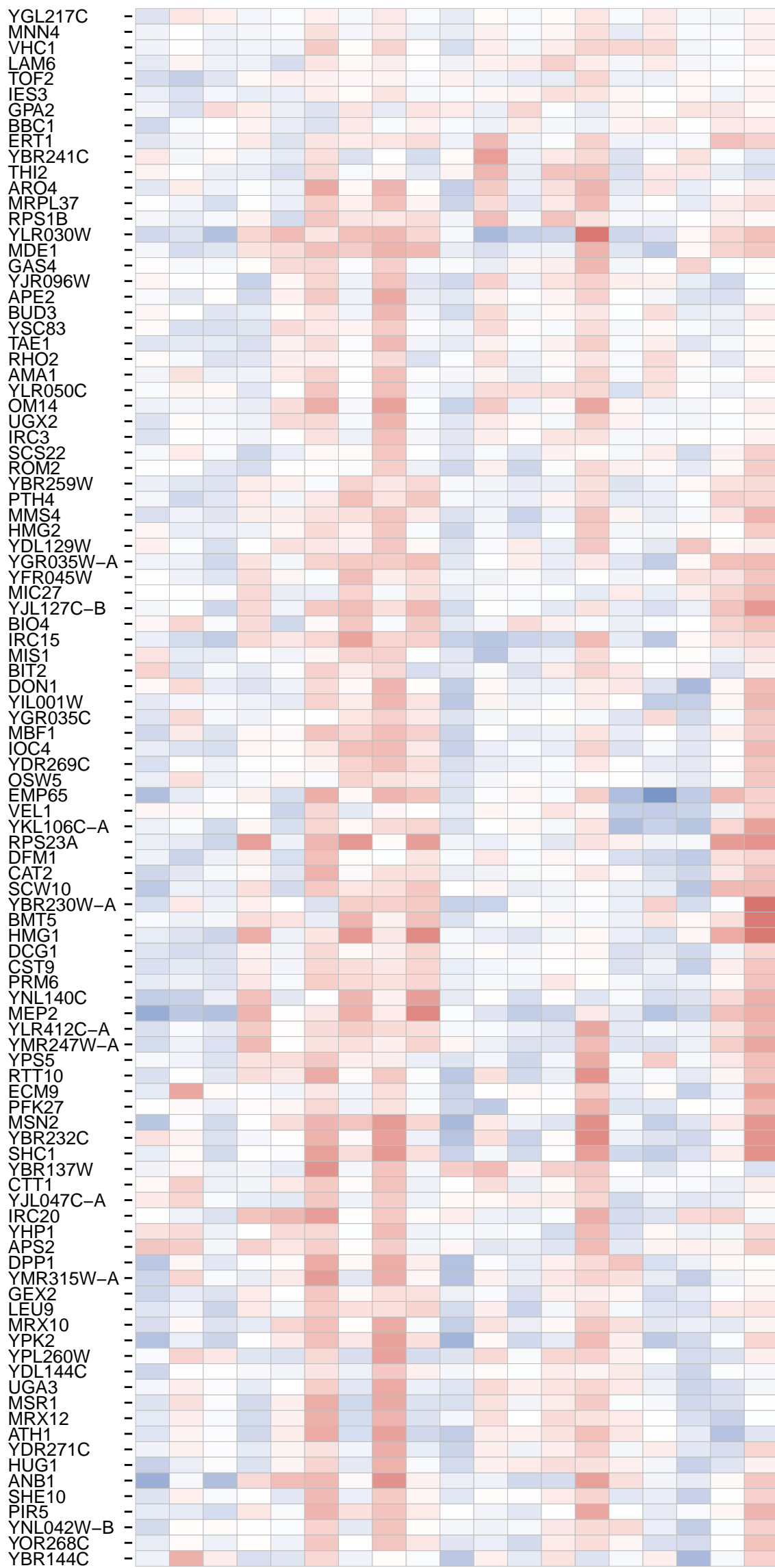
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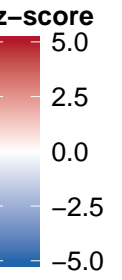
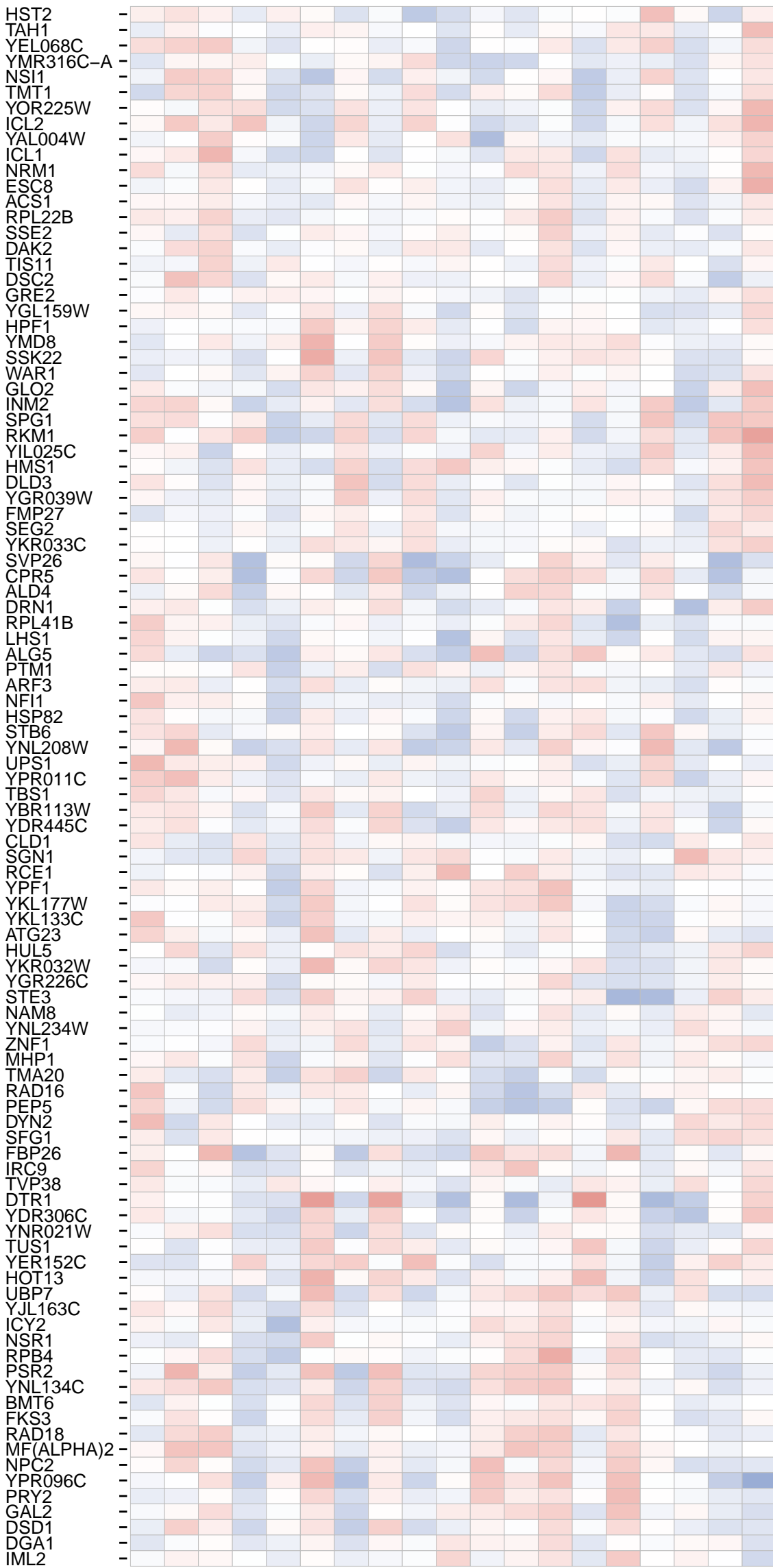
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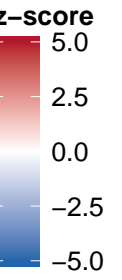
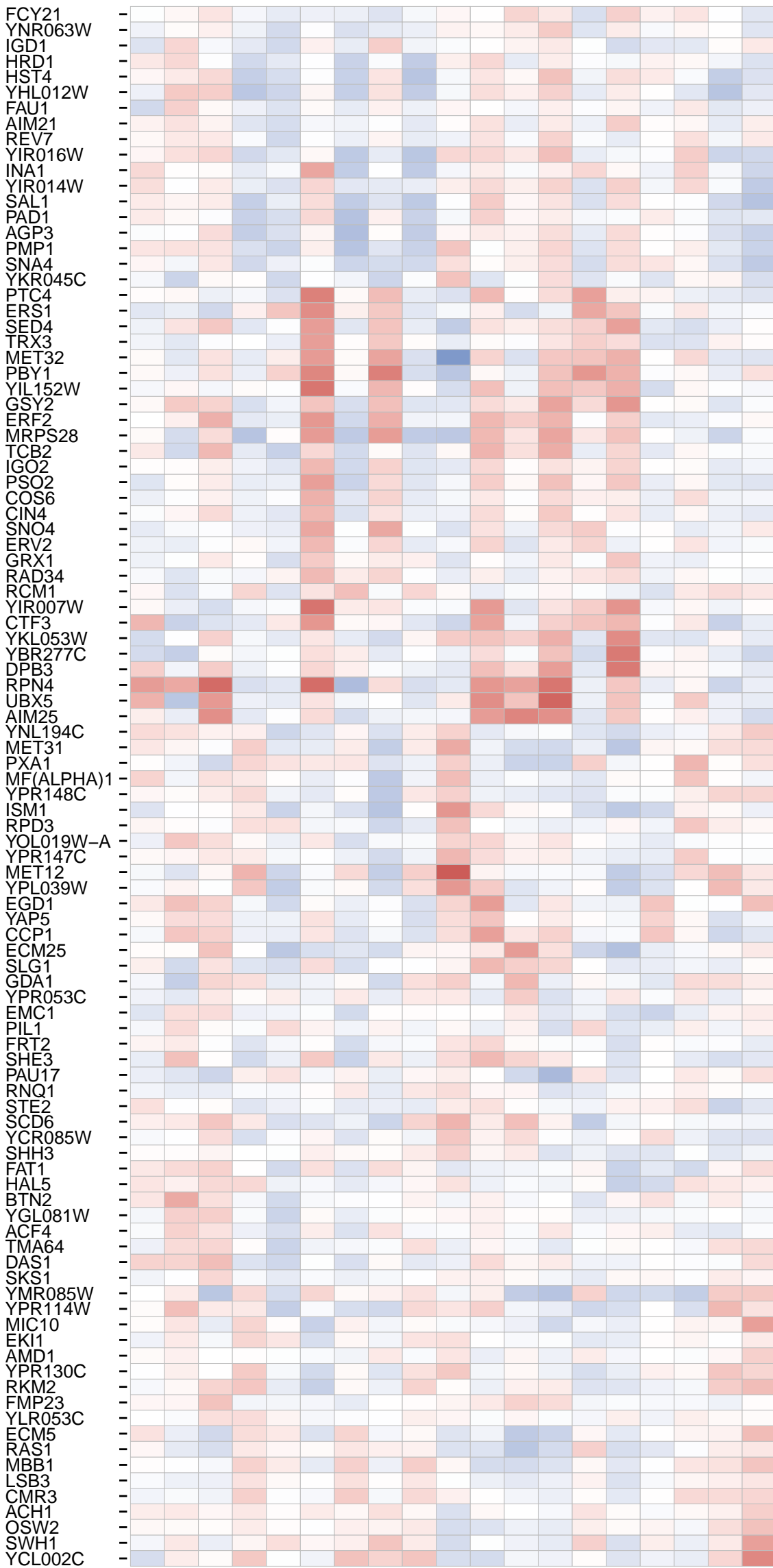
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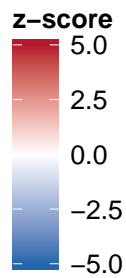
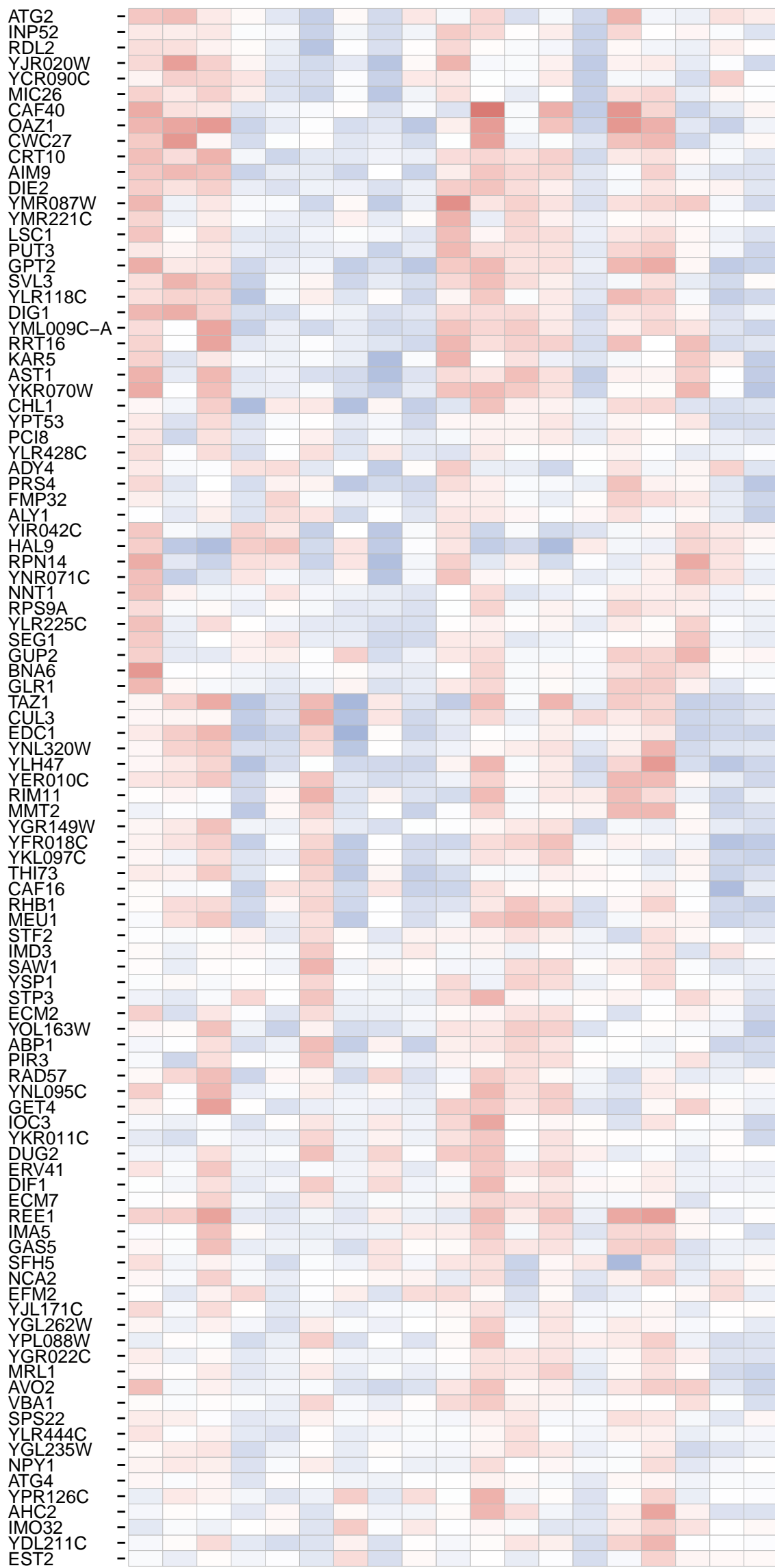
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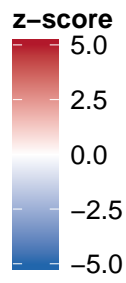
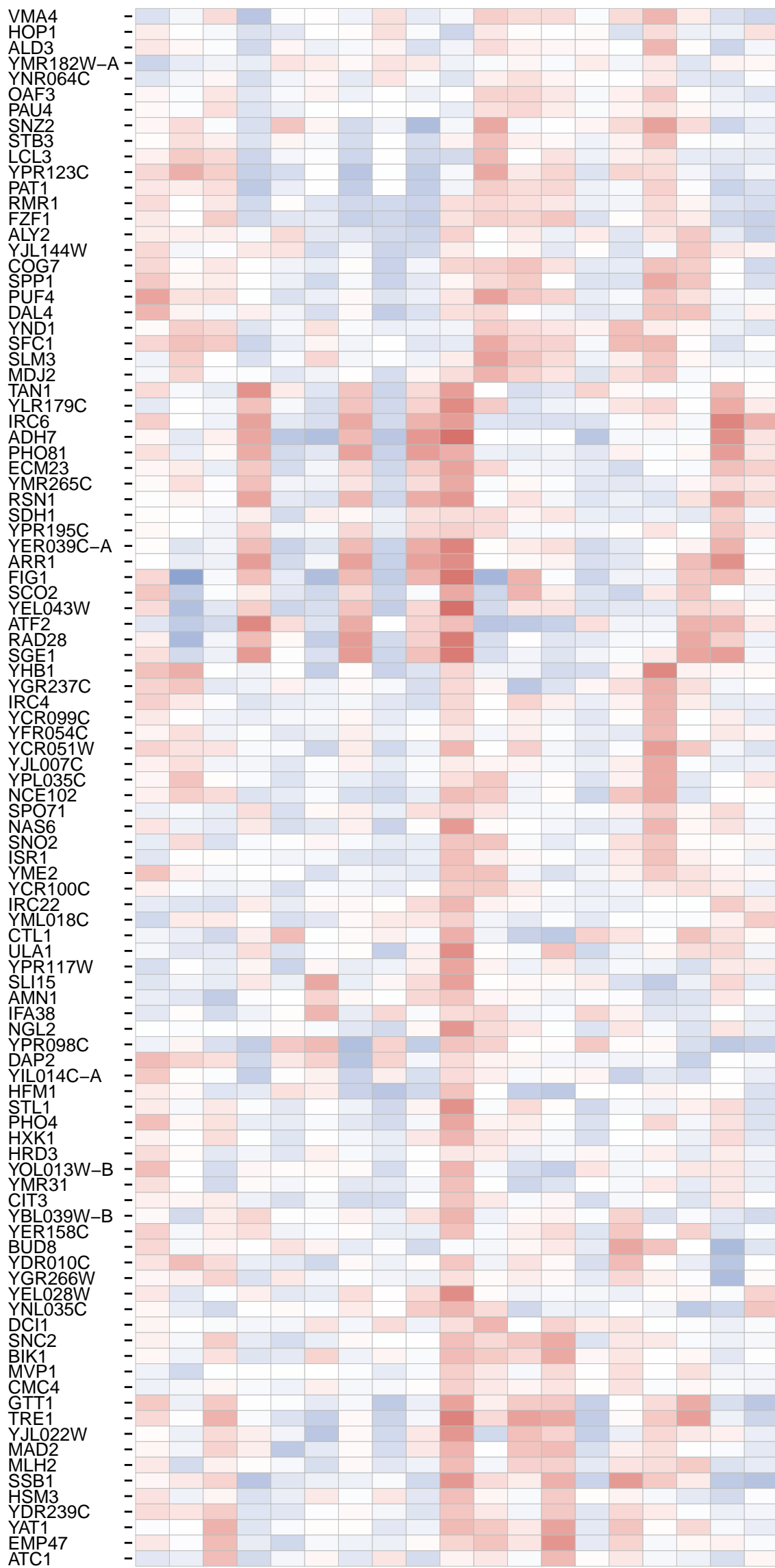
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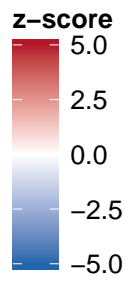
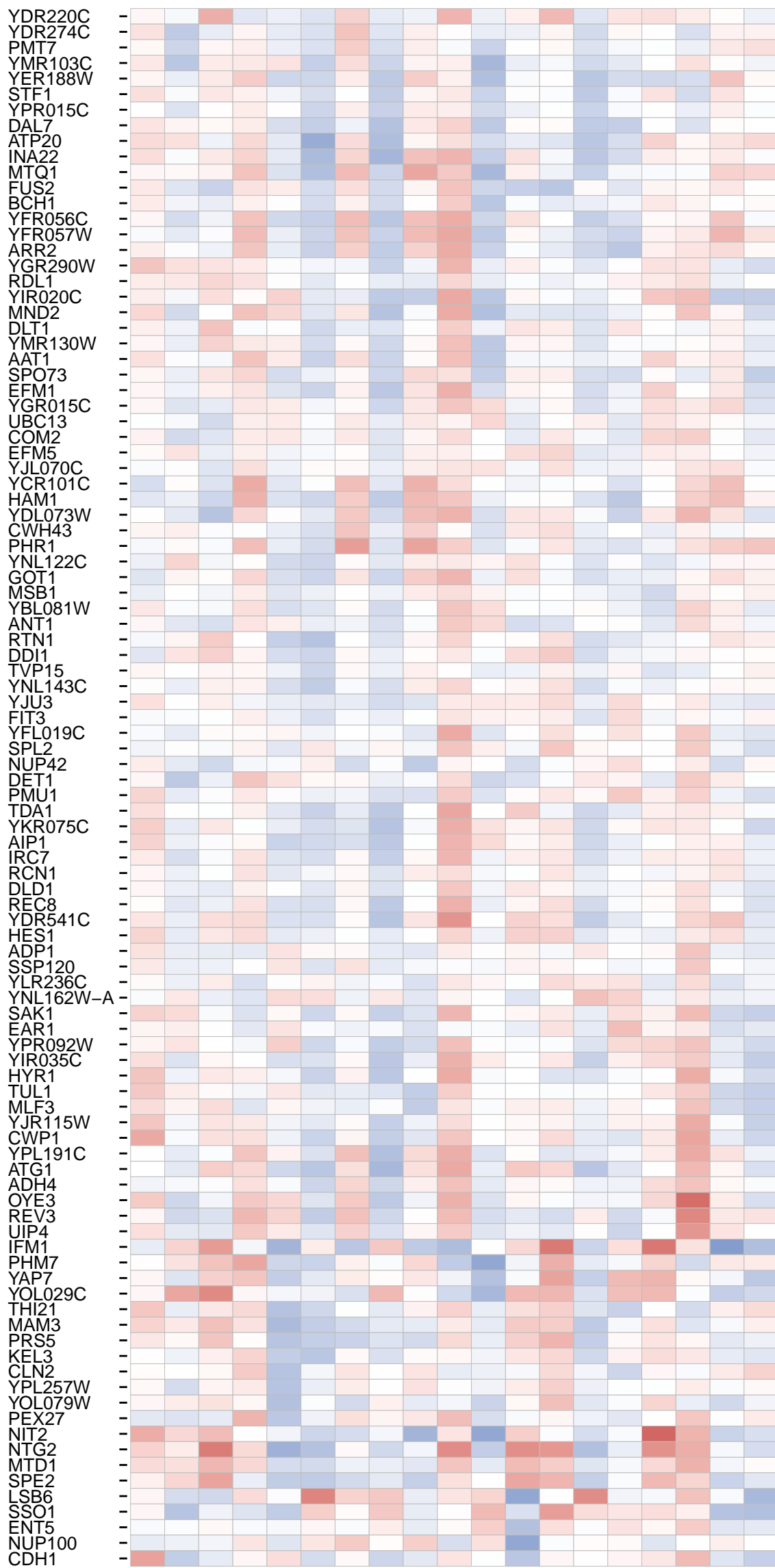
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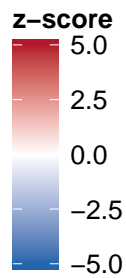
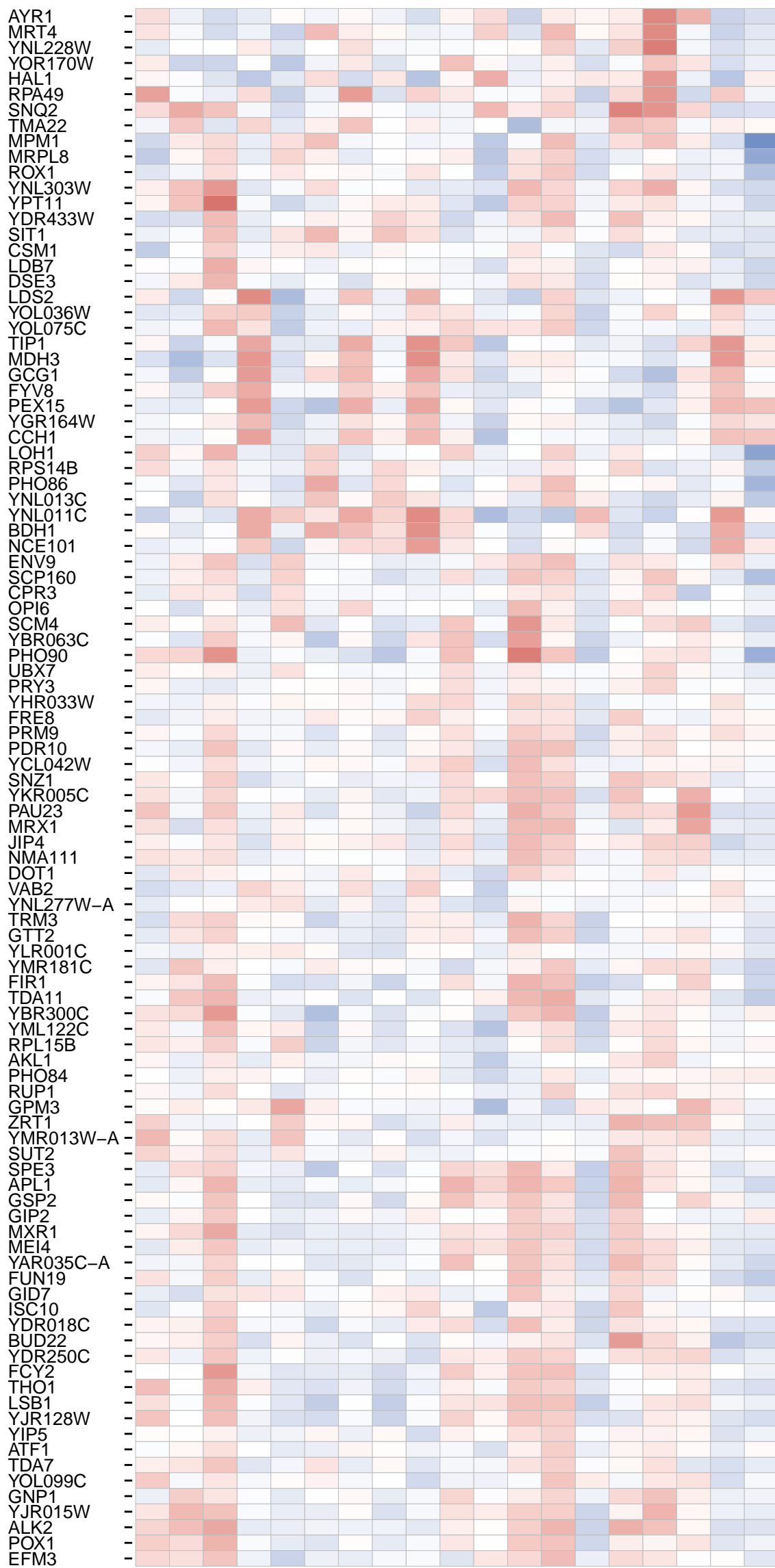
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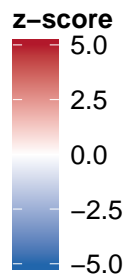
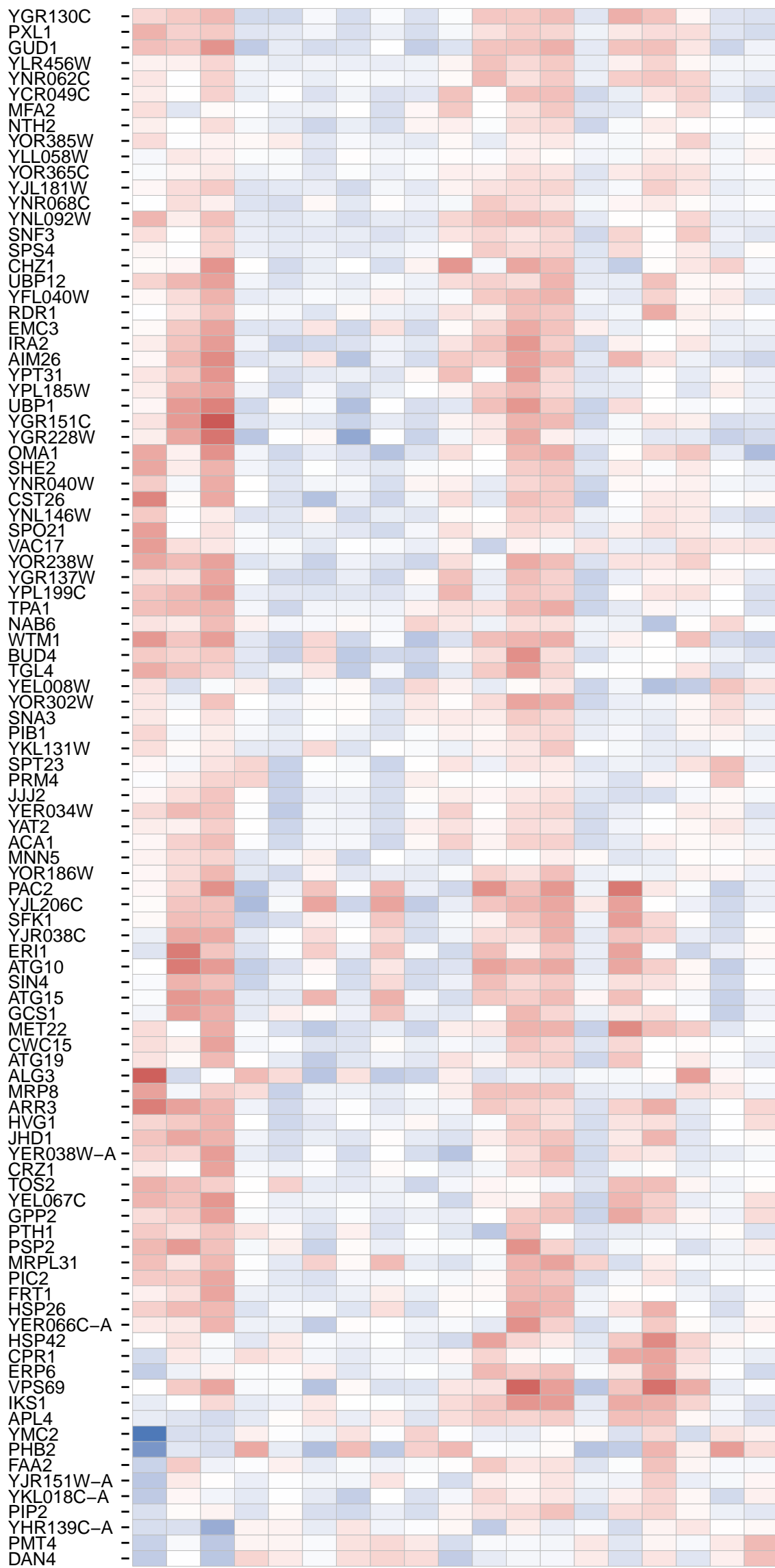
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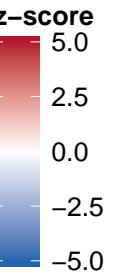
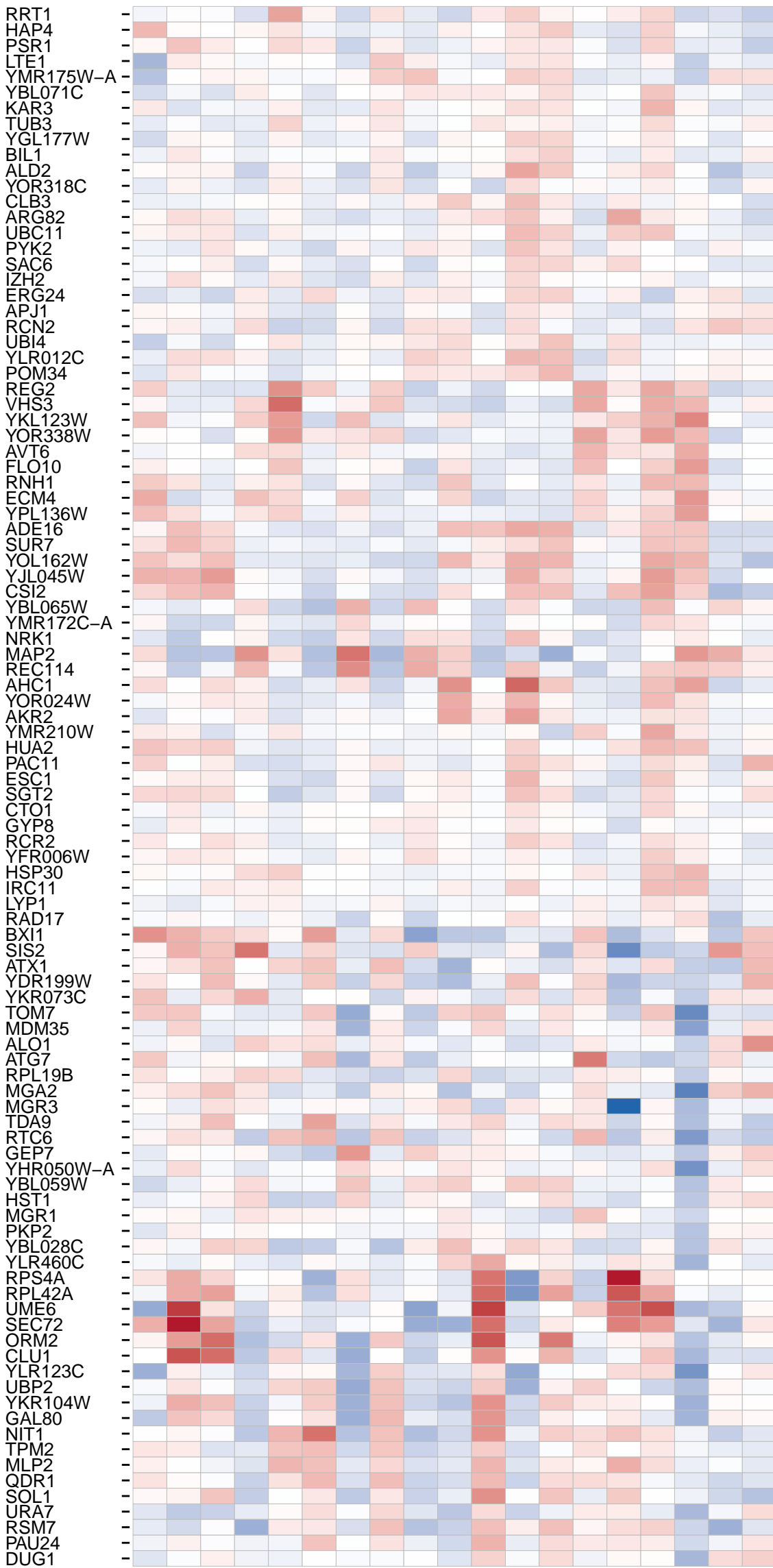
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glutamate -
phenylalanine -
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histidine -
isoleucine -
lysine -
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glutamine -
arginine -
serine -
threonine -
valine -
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tyrosine -



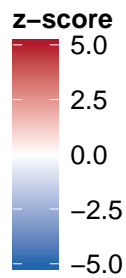
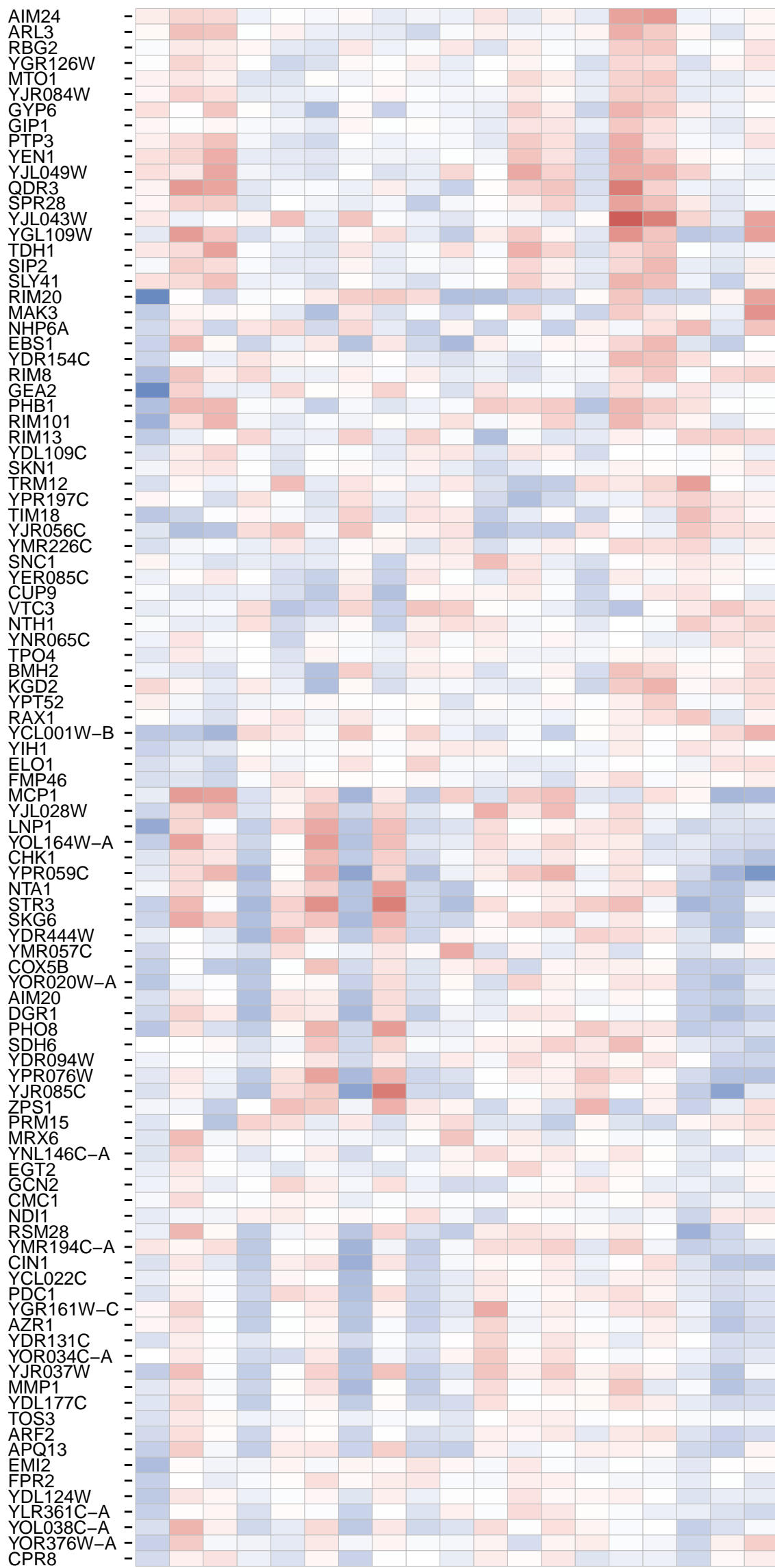
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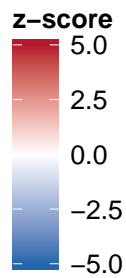
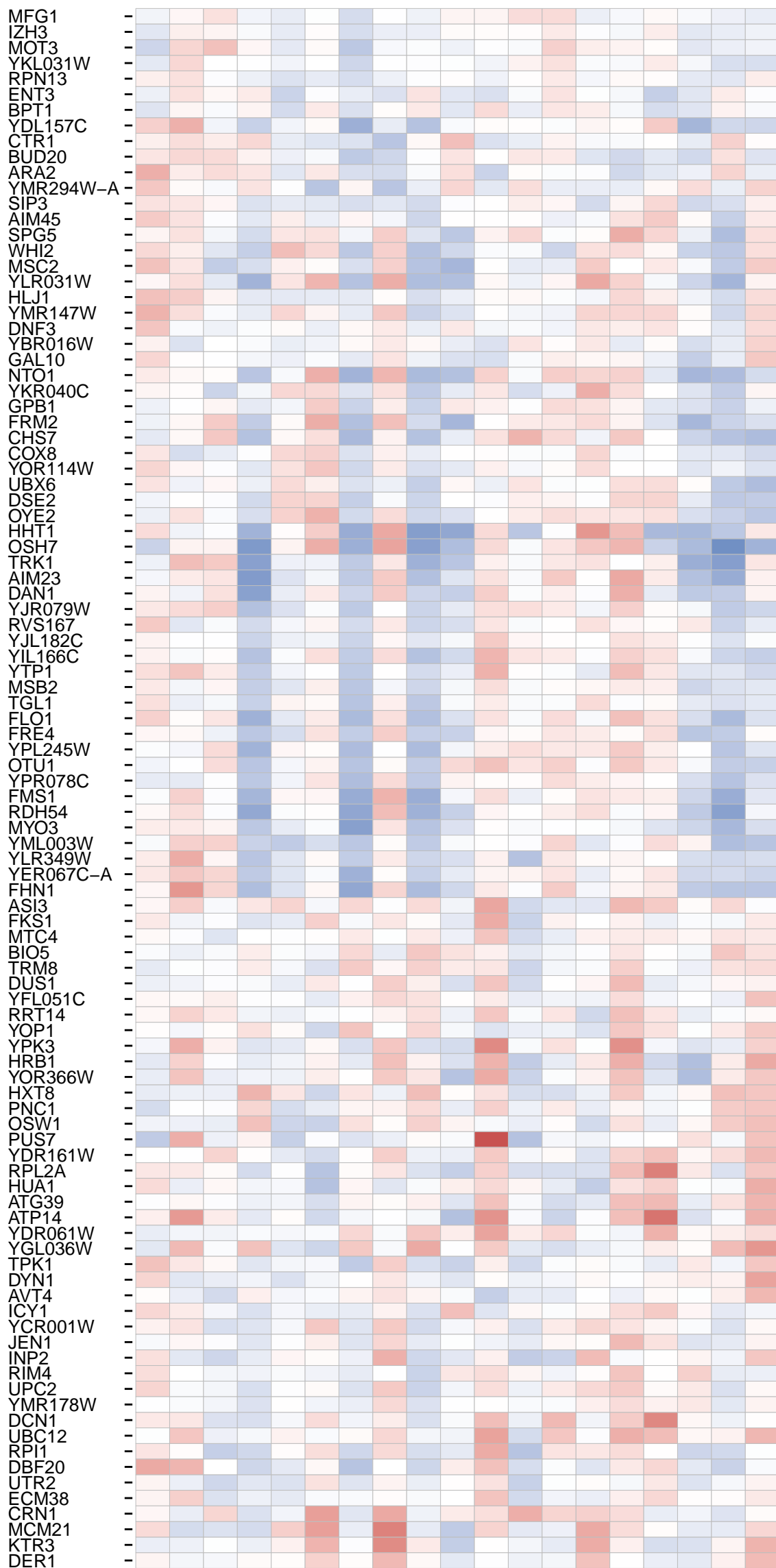
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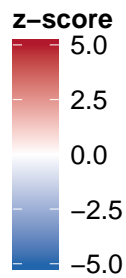
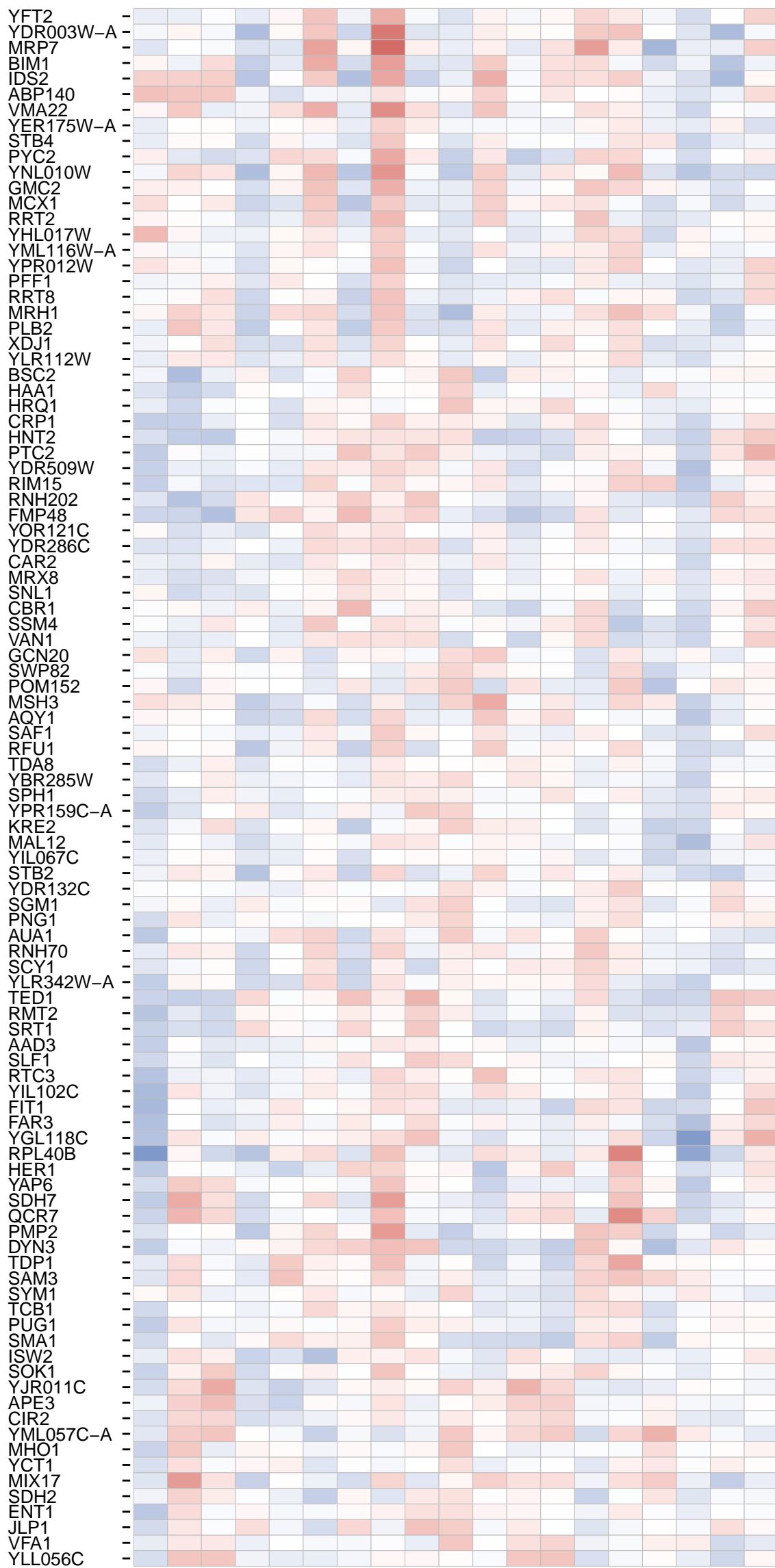
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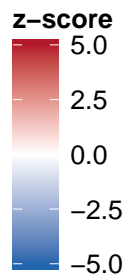
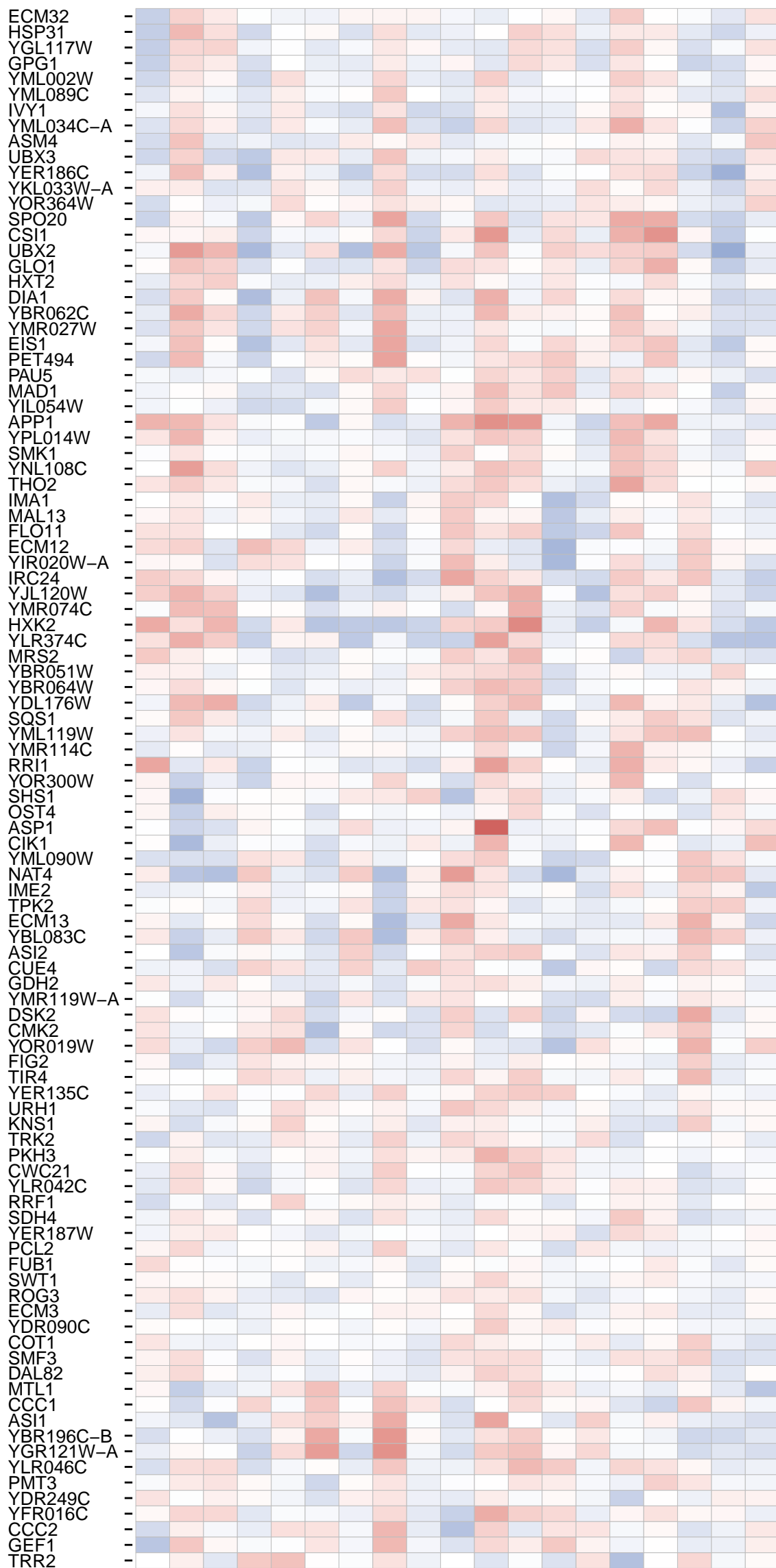
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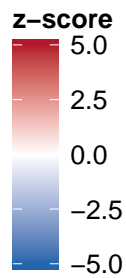
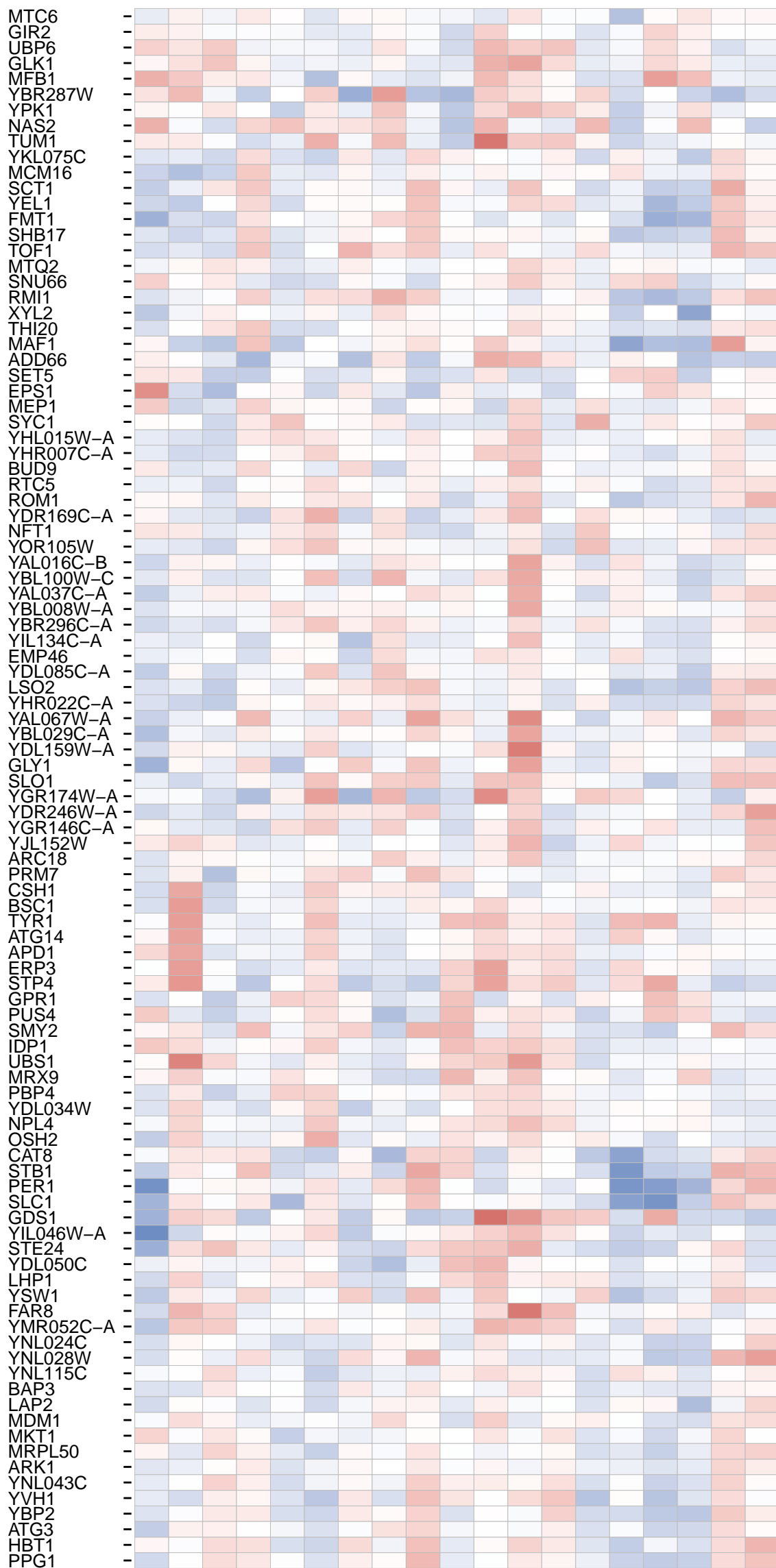
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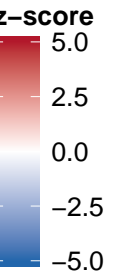
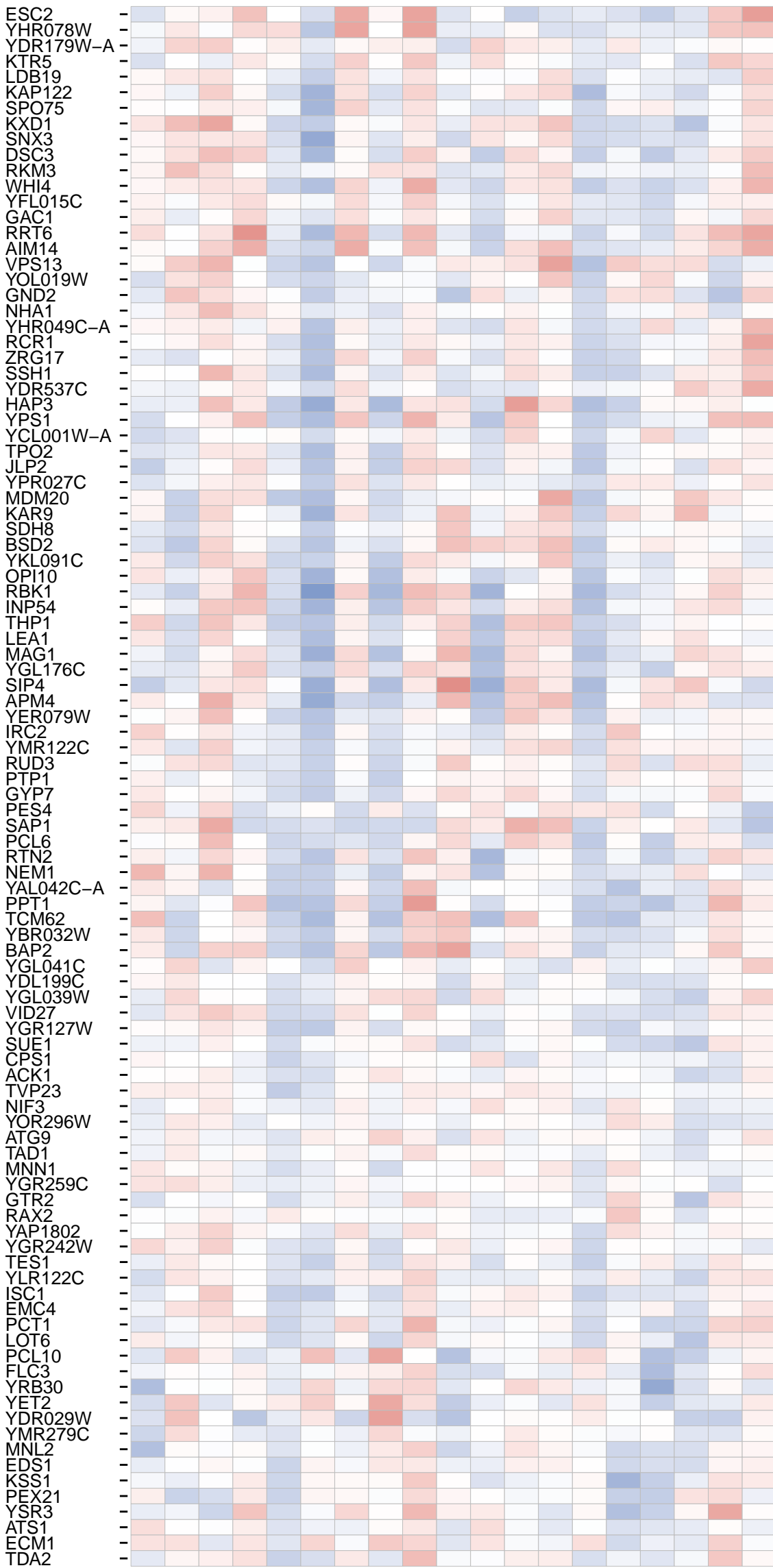
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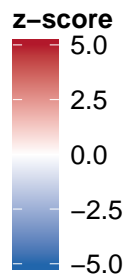
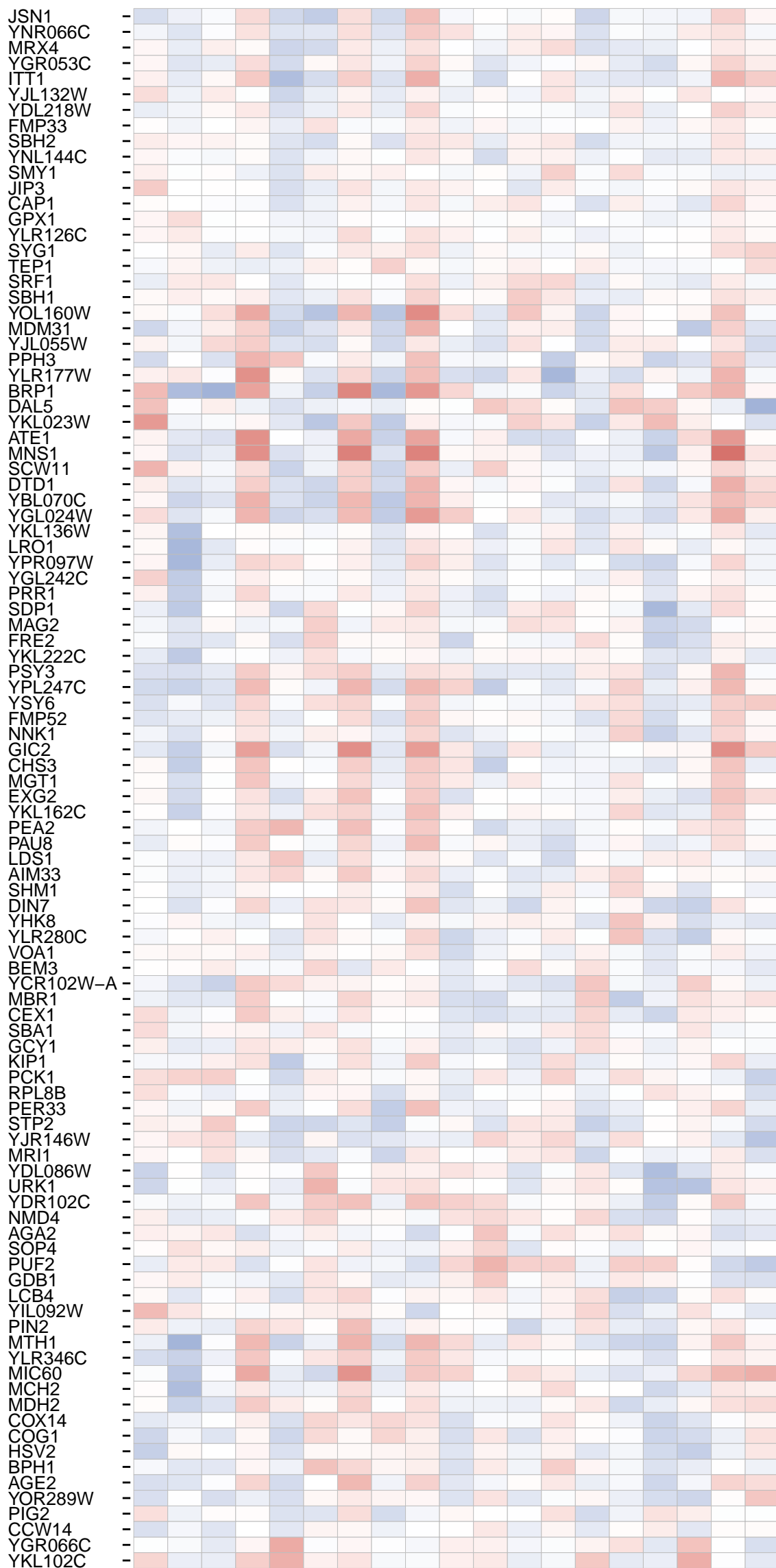
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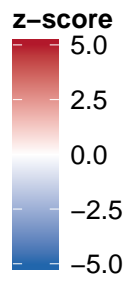
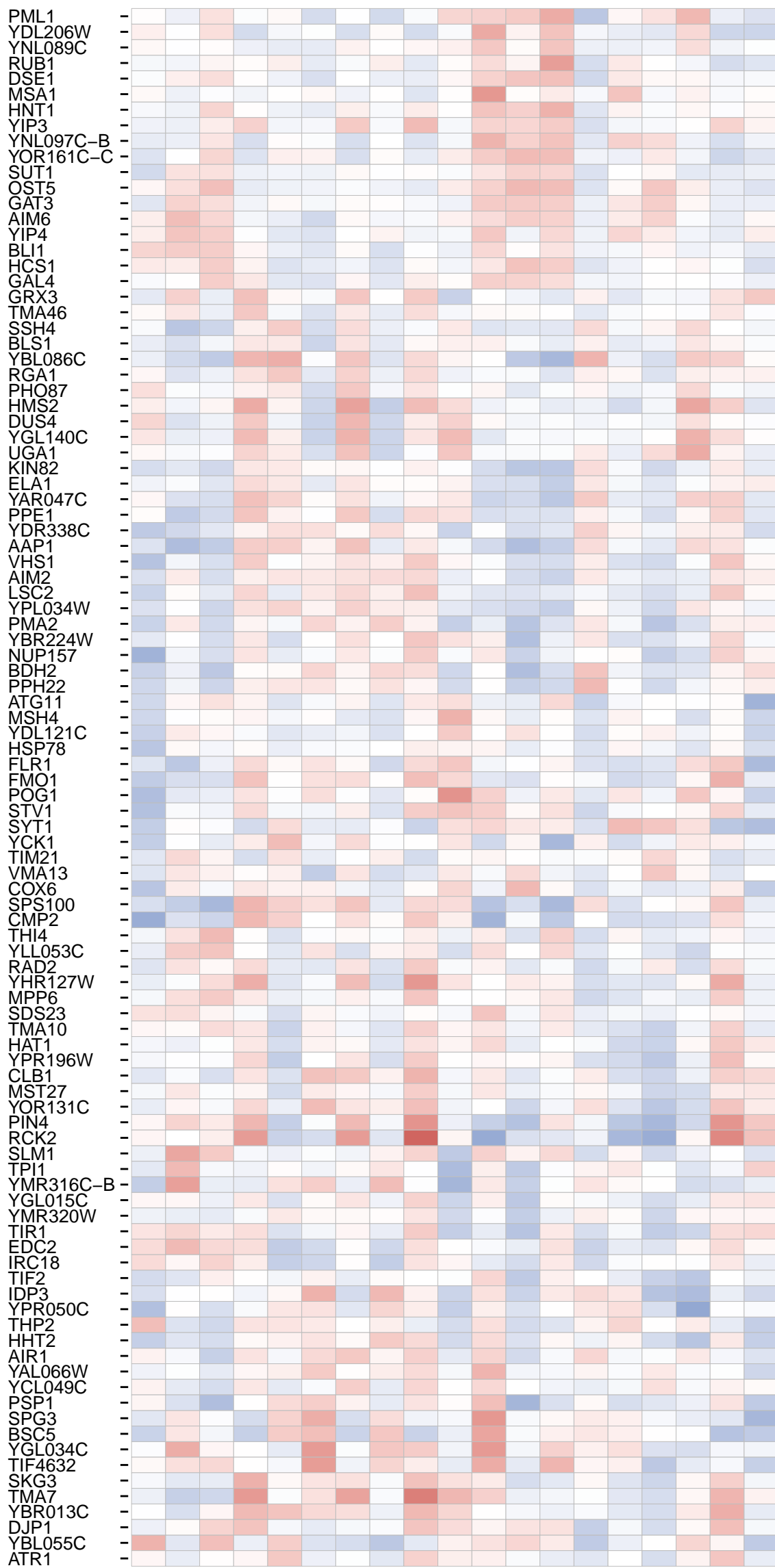
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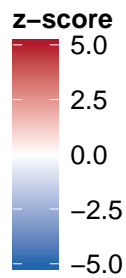
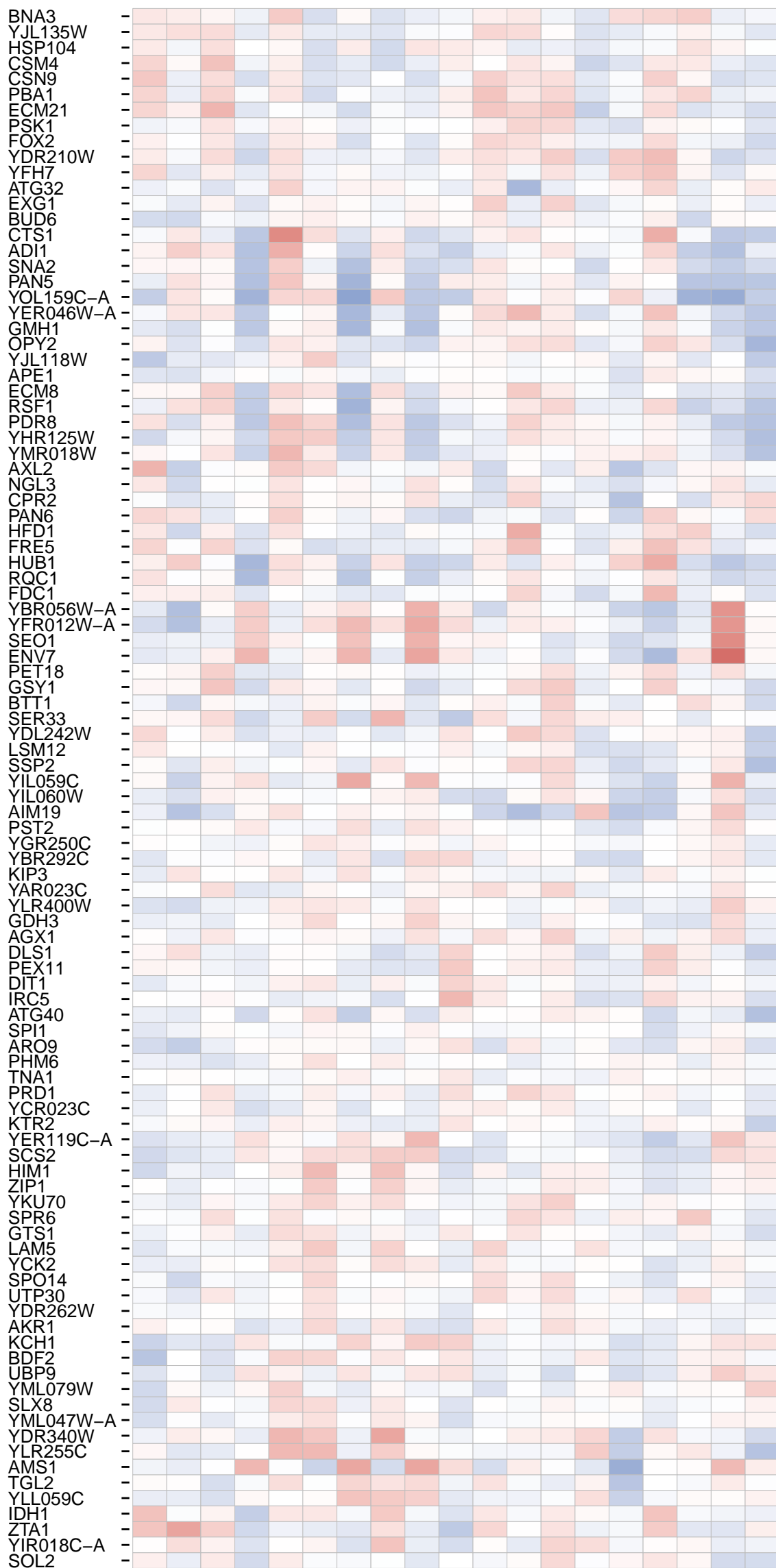
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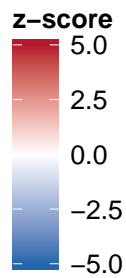
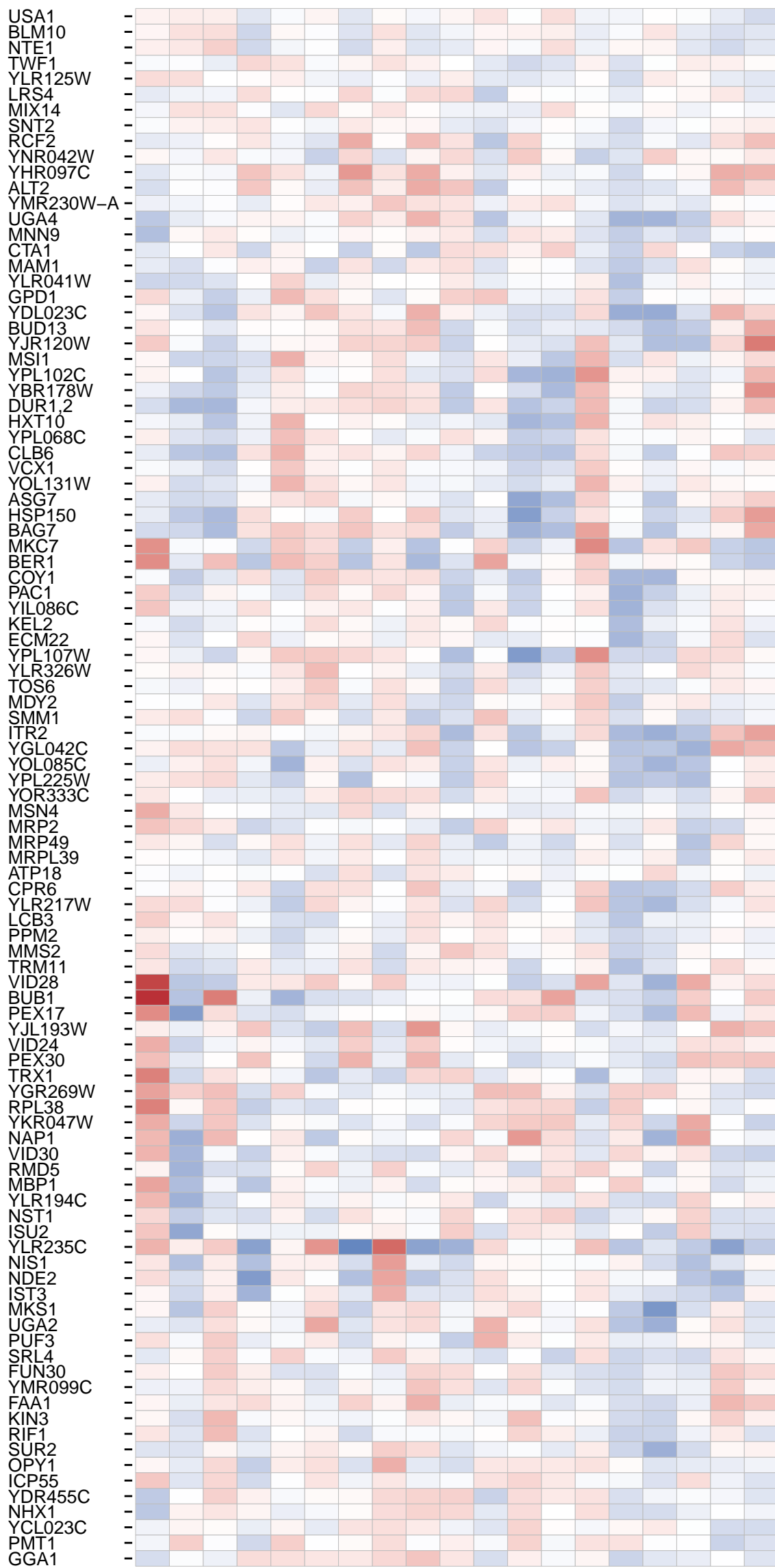
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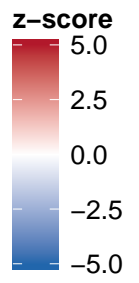
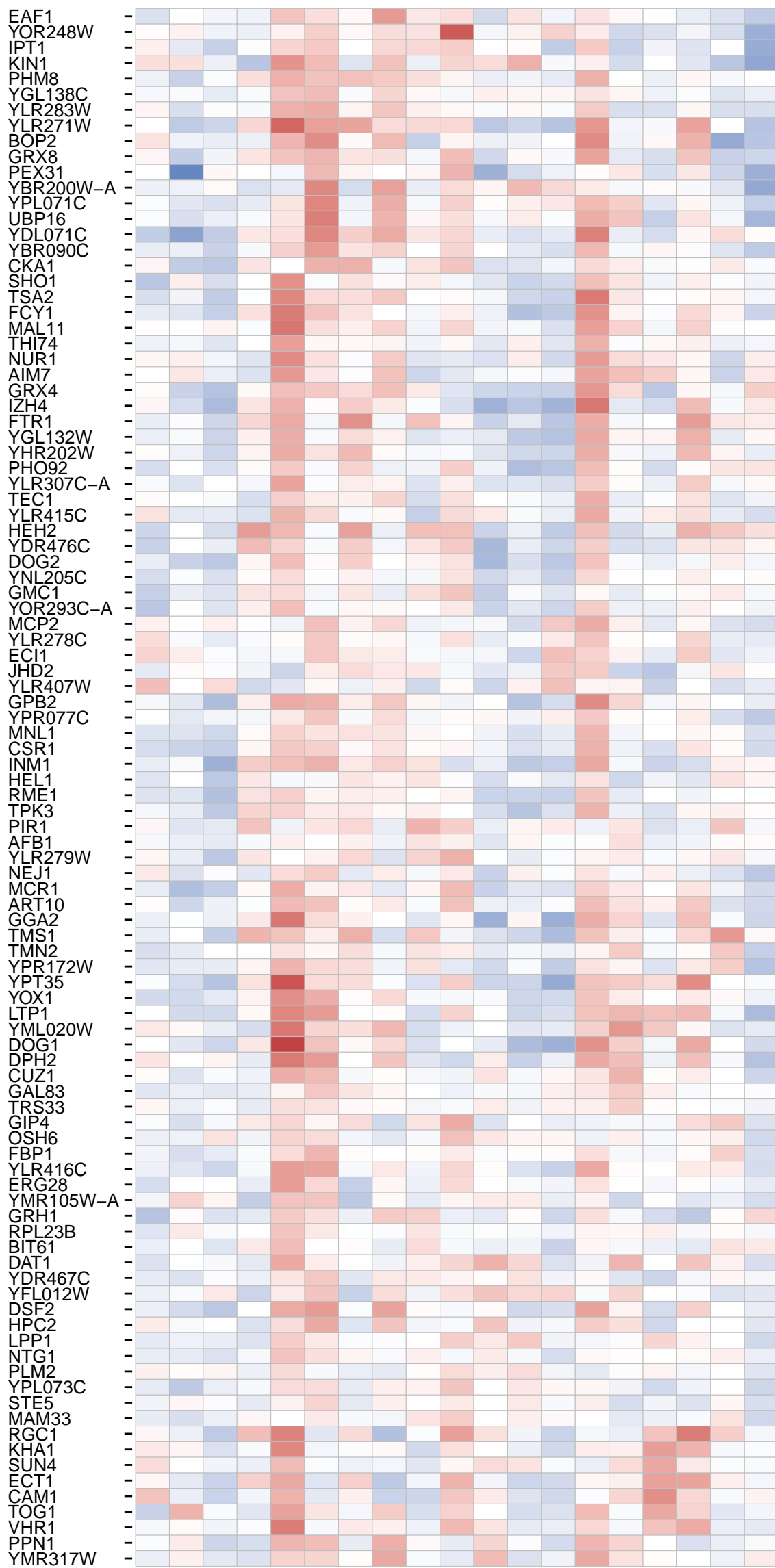
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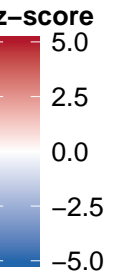
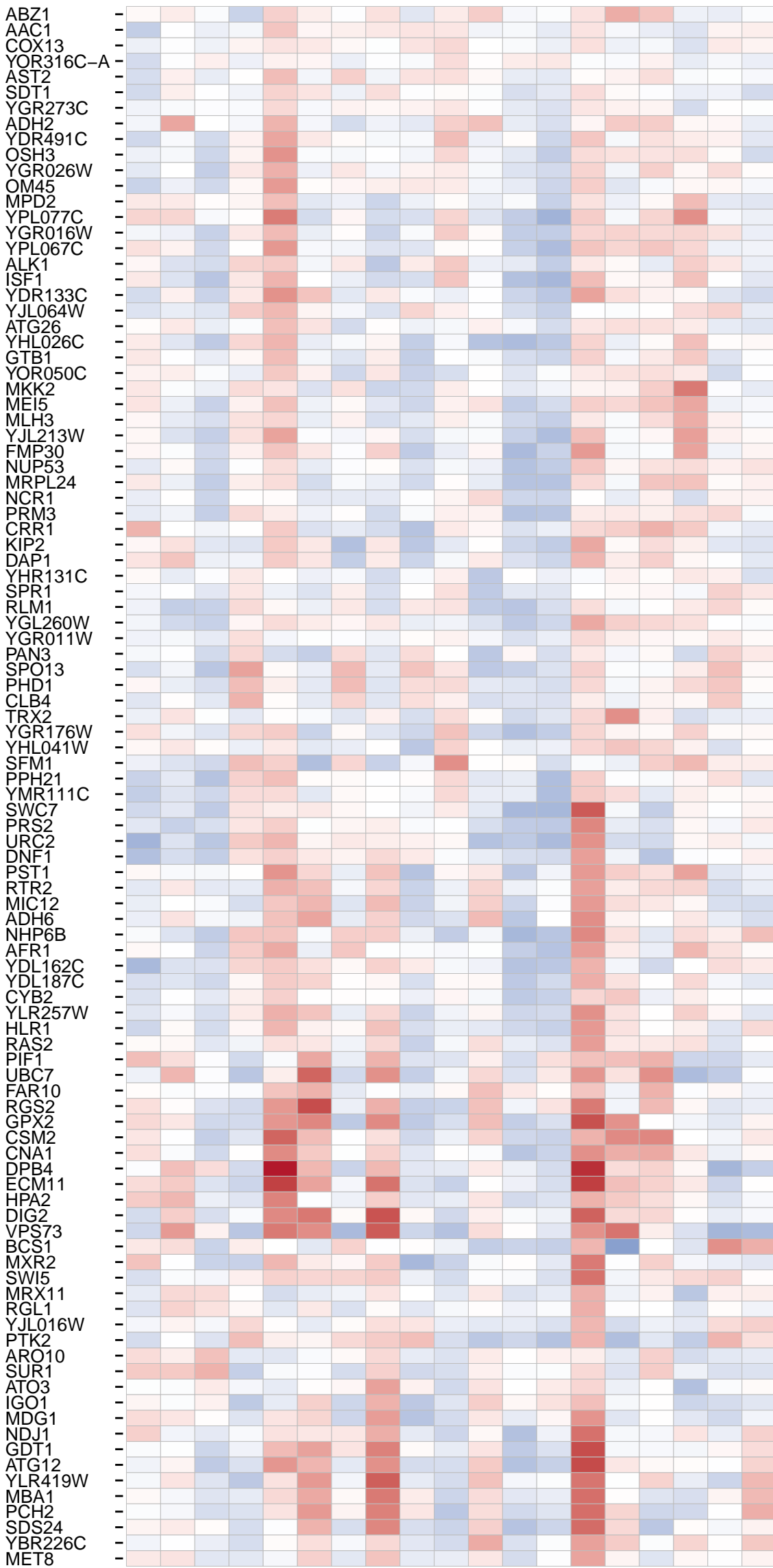
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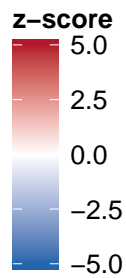
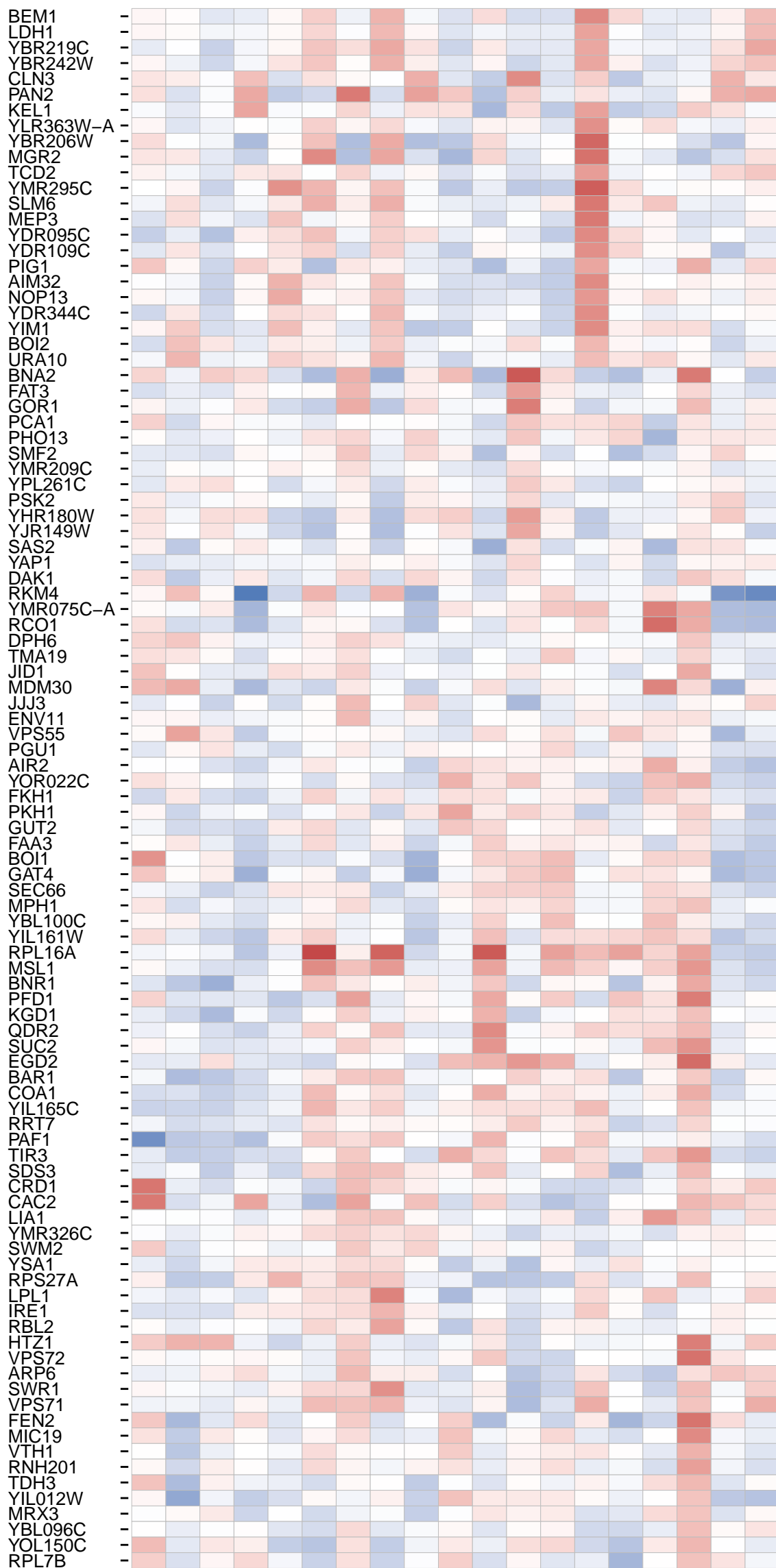
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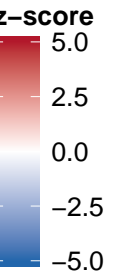
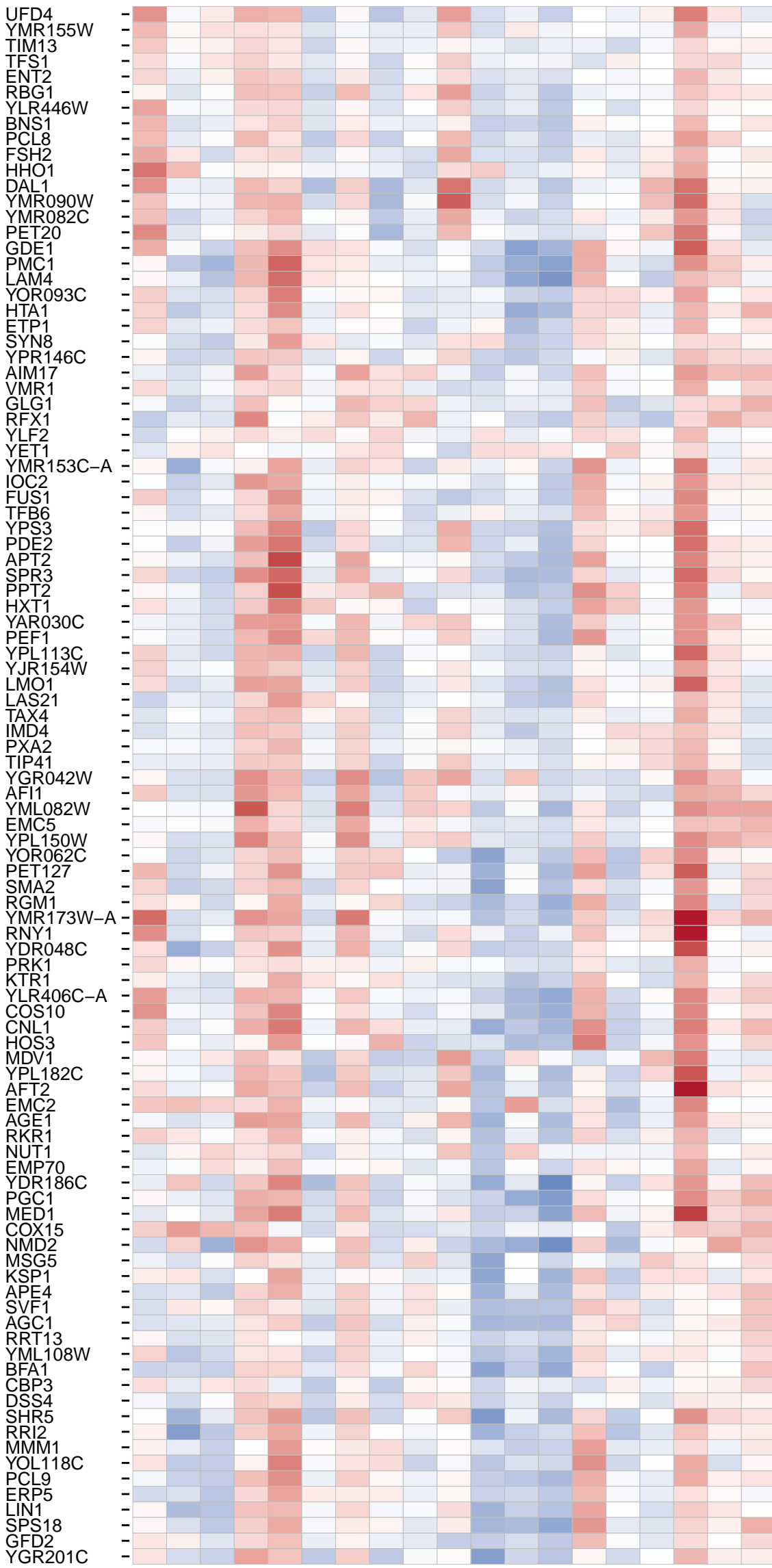
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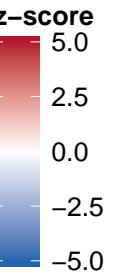
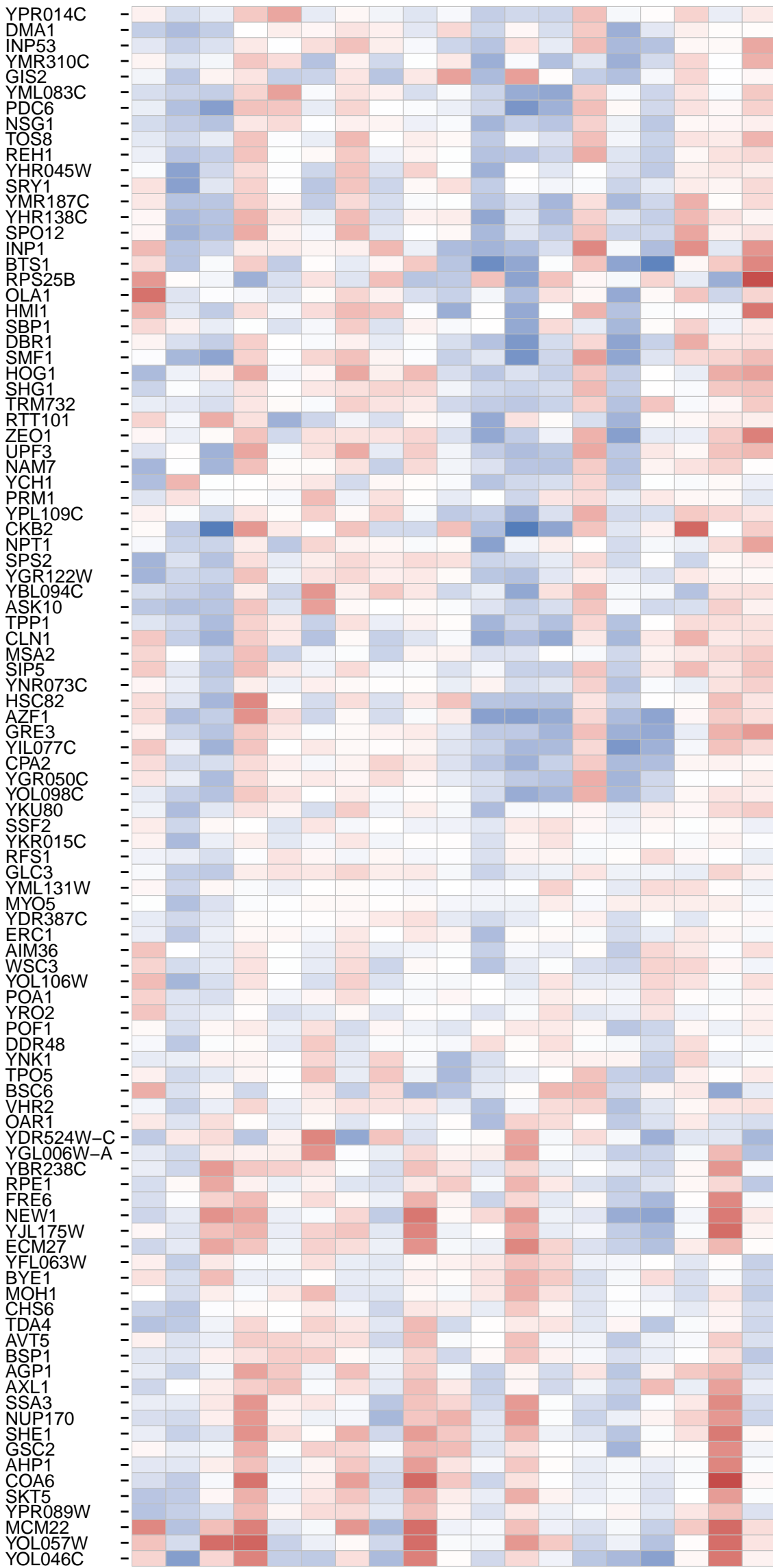
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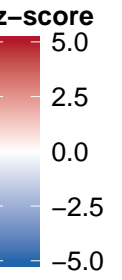
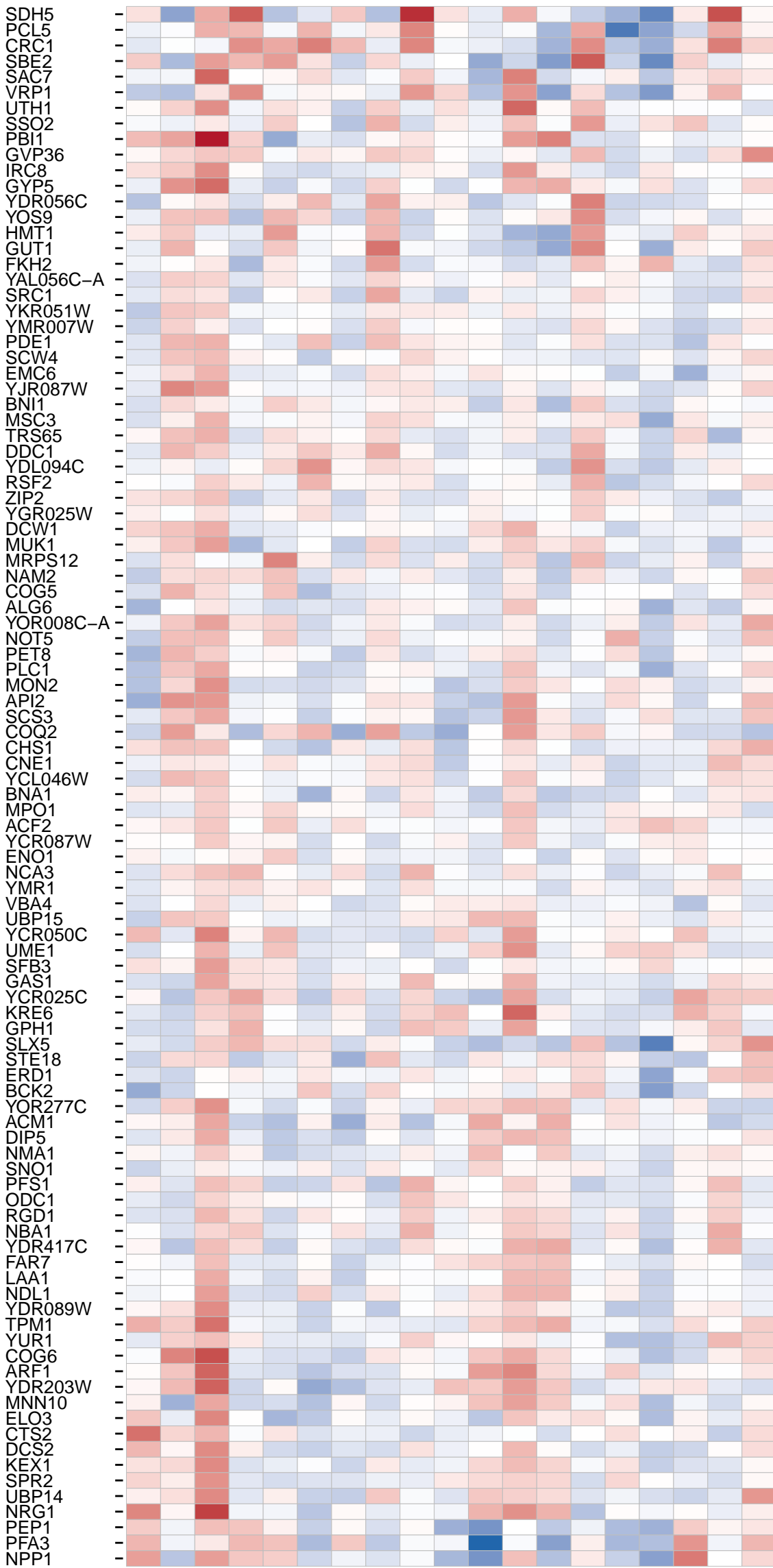
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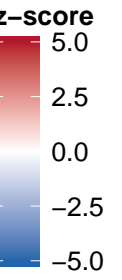
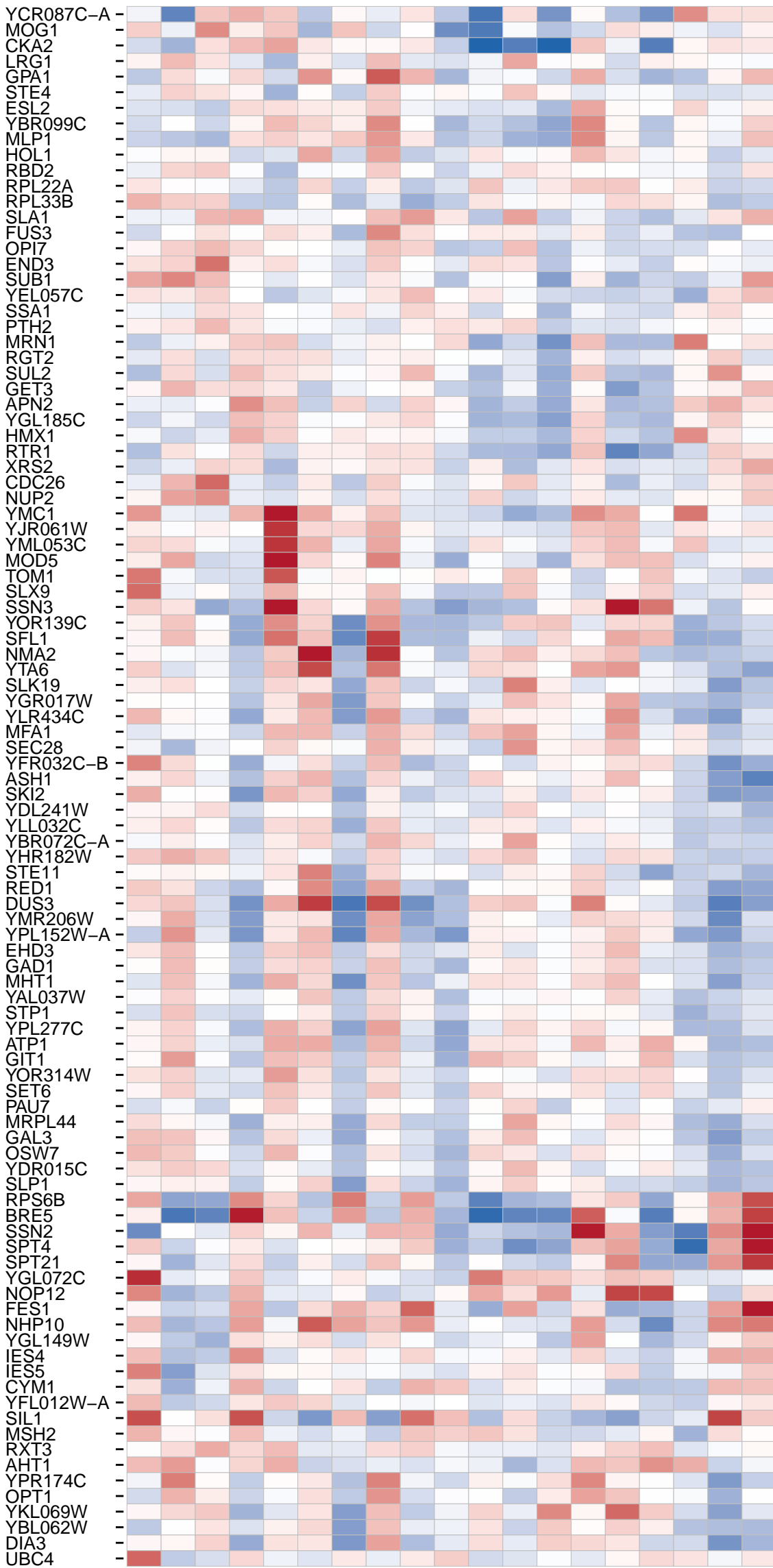
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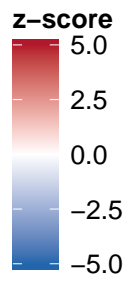
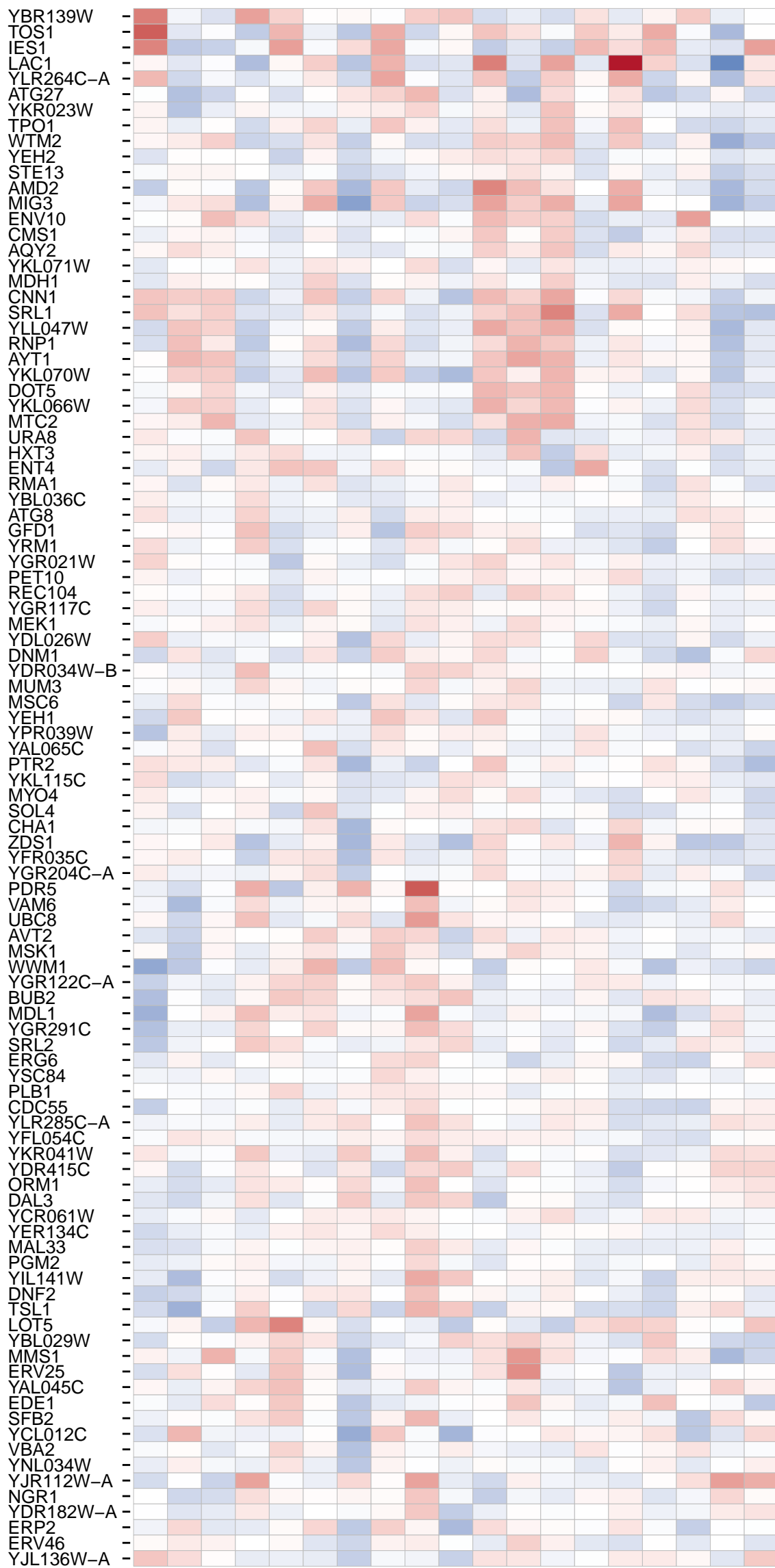
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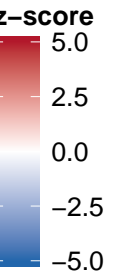
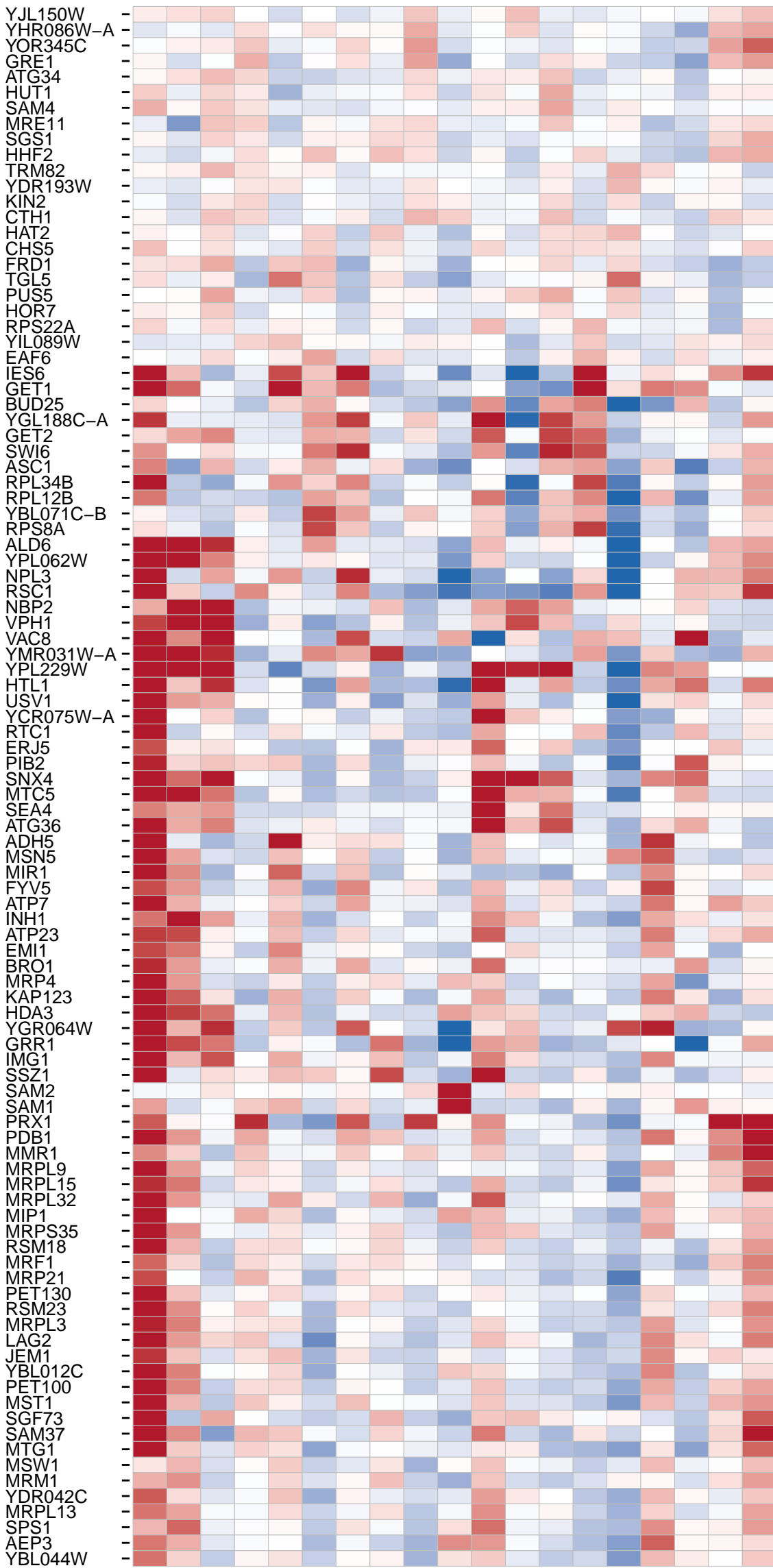
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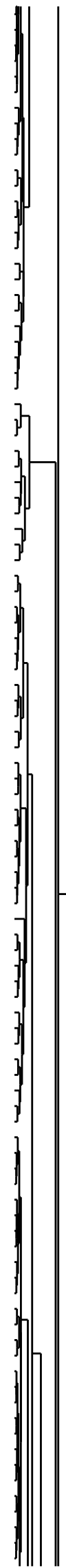
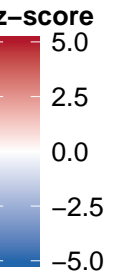
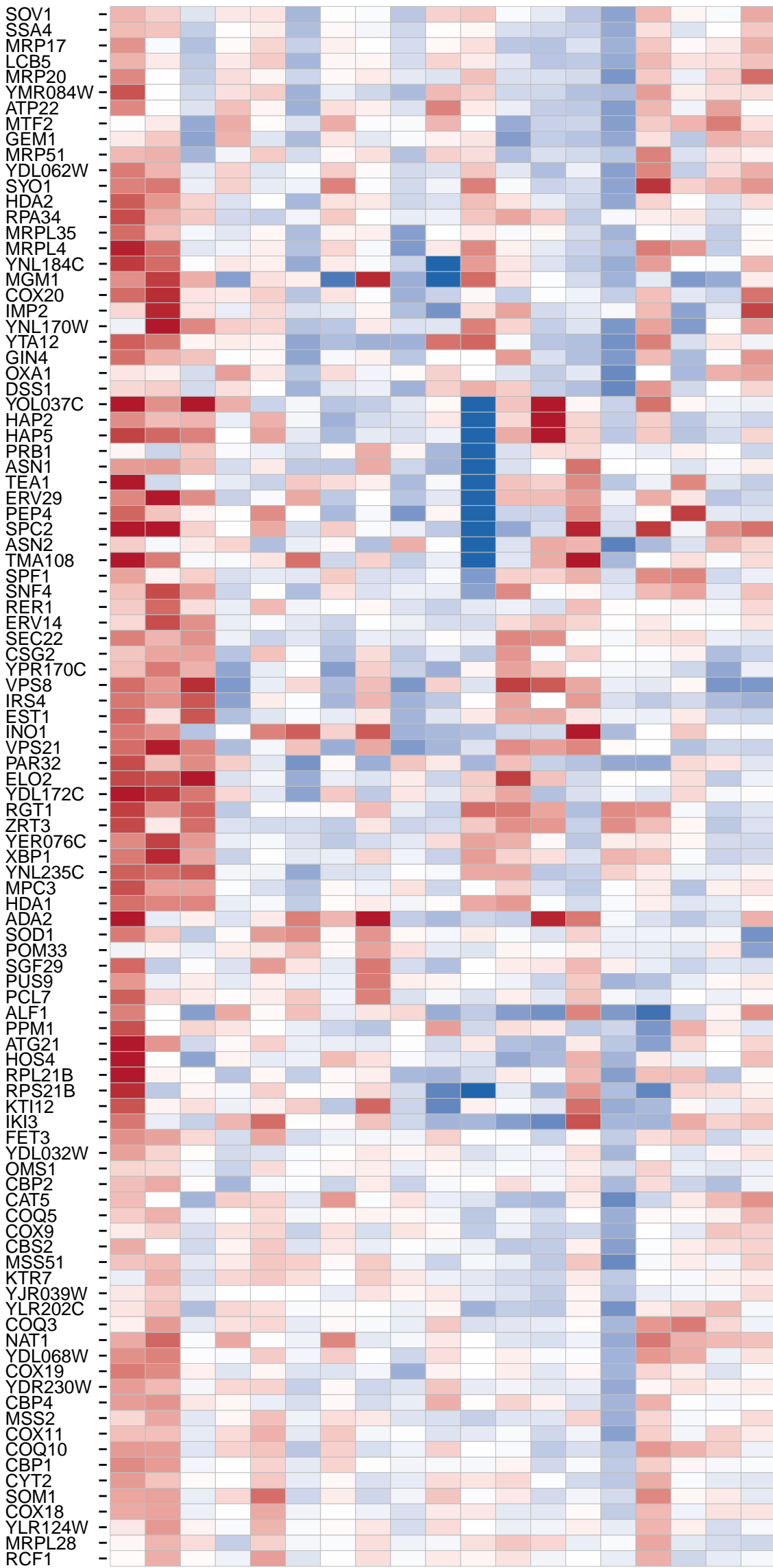
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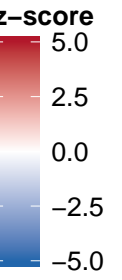
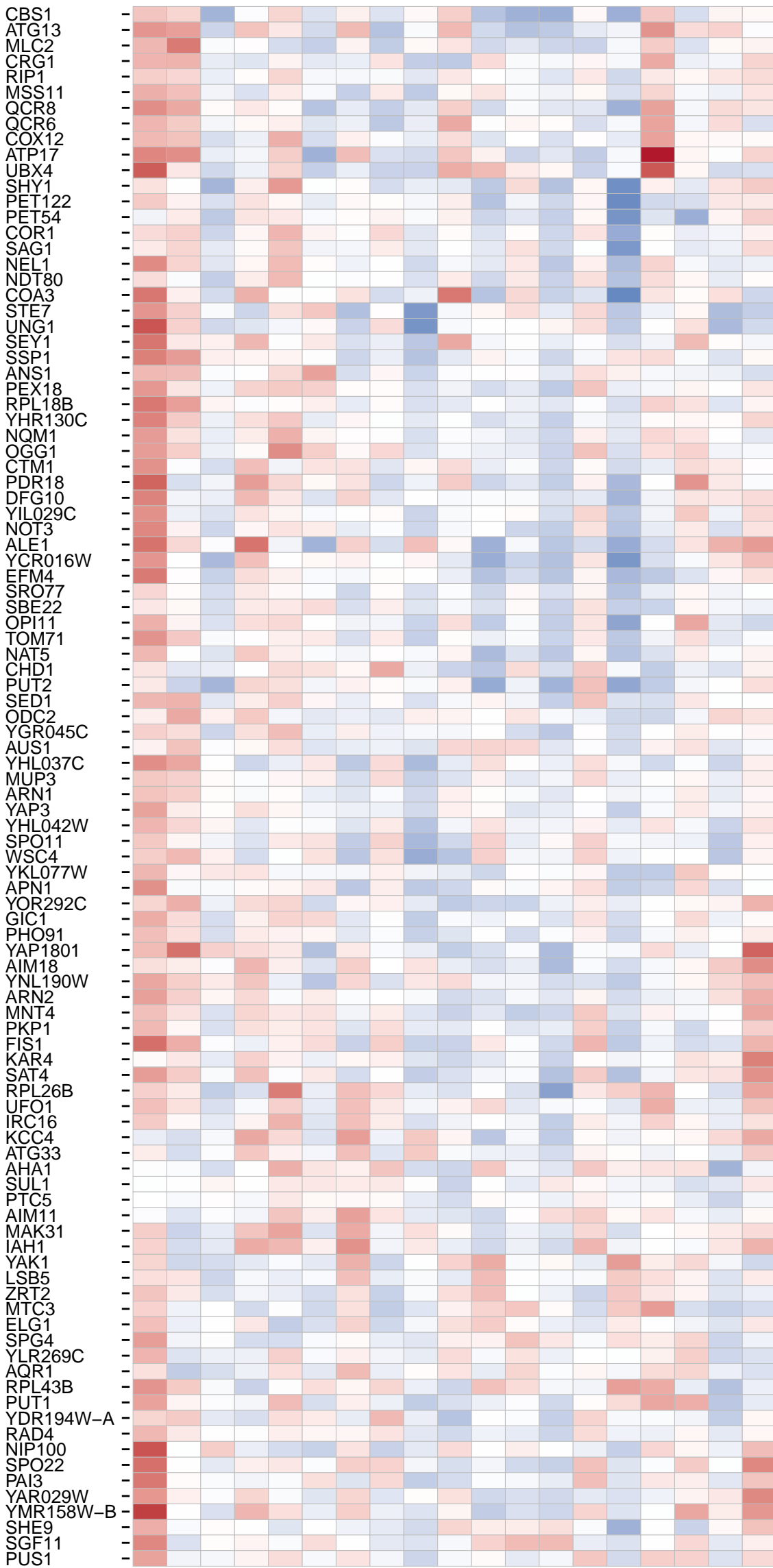
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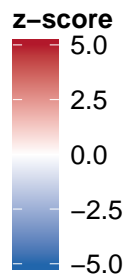
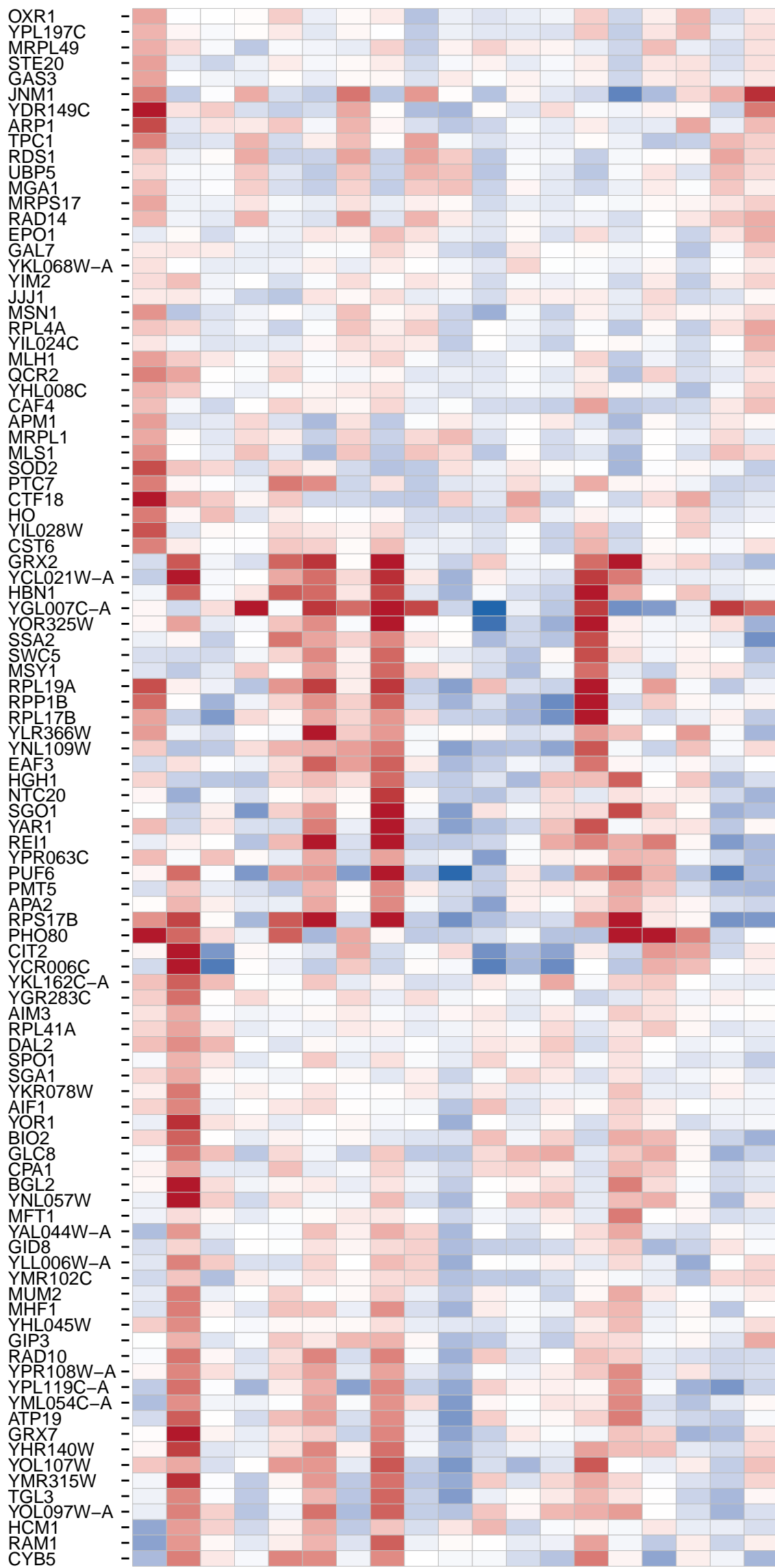
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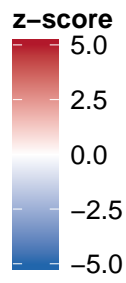
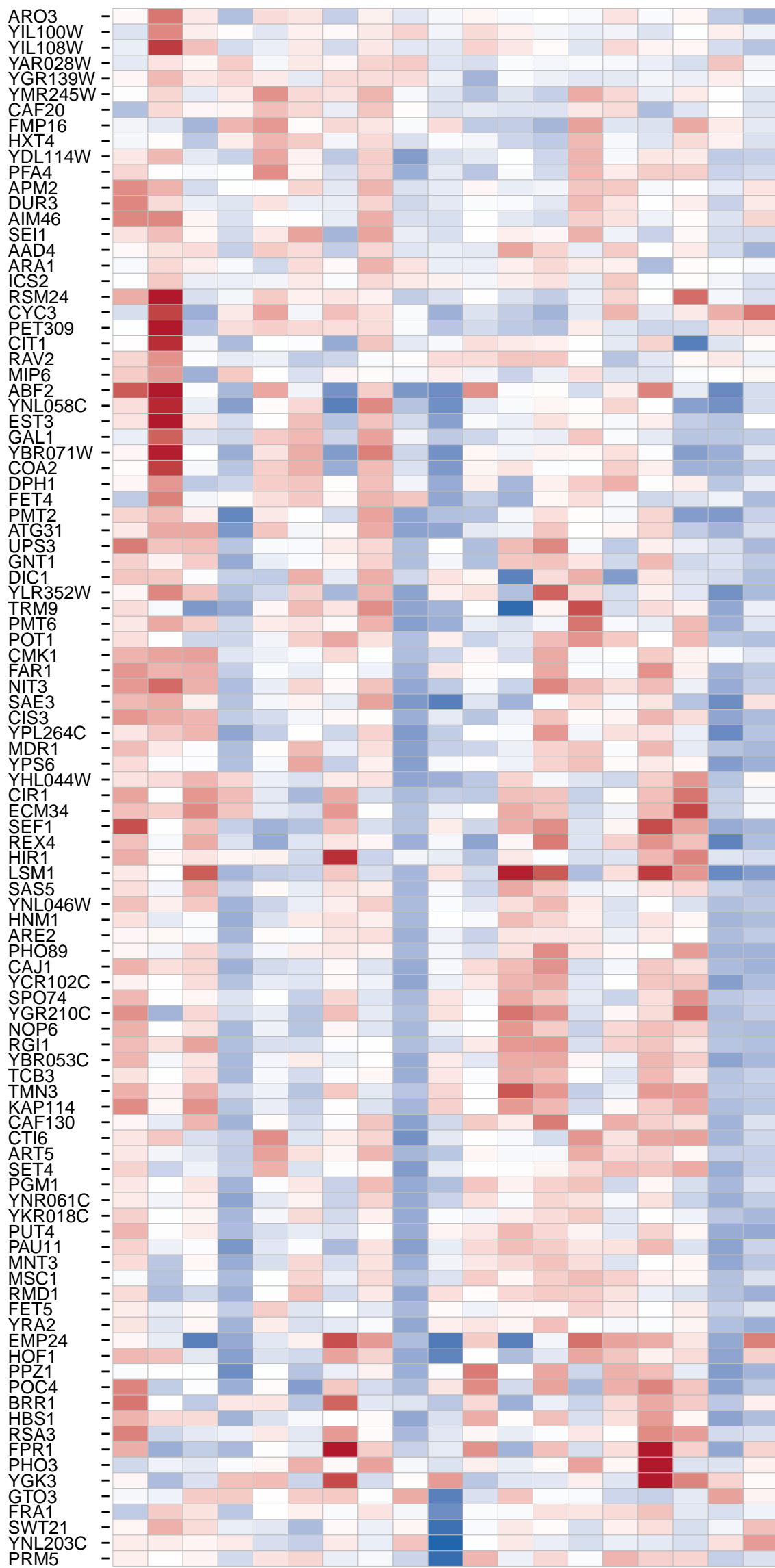
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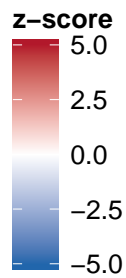
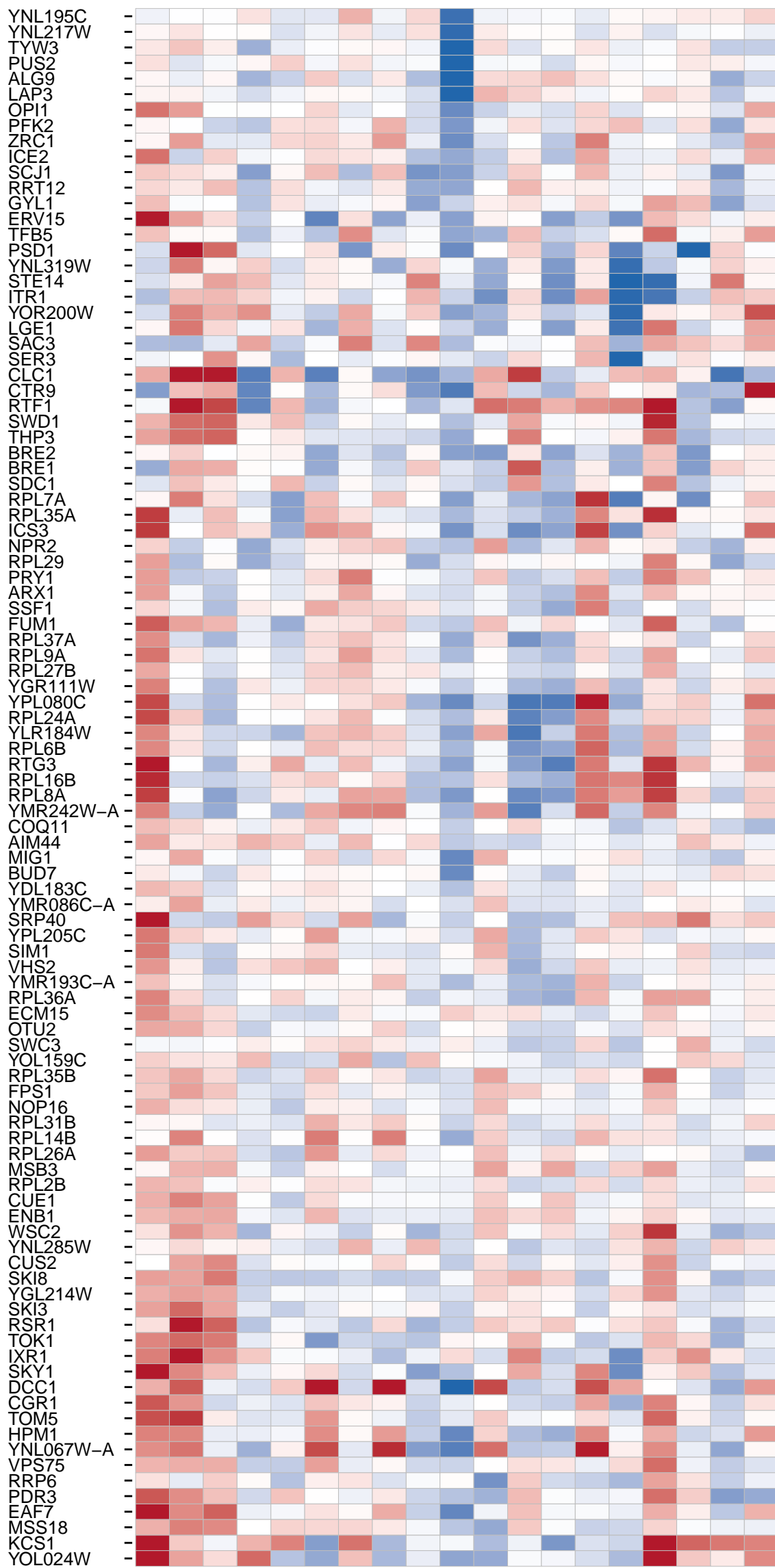
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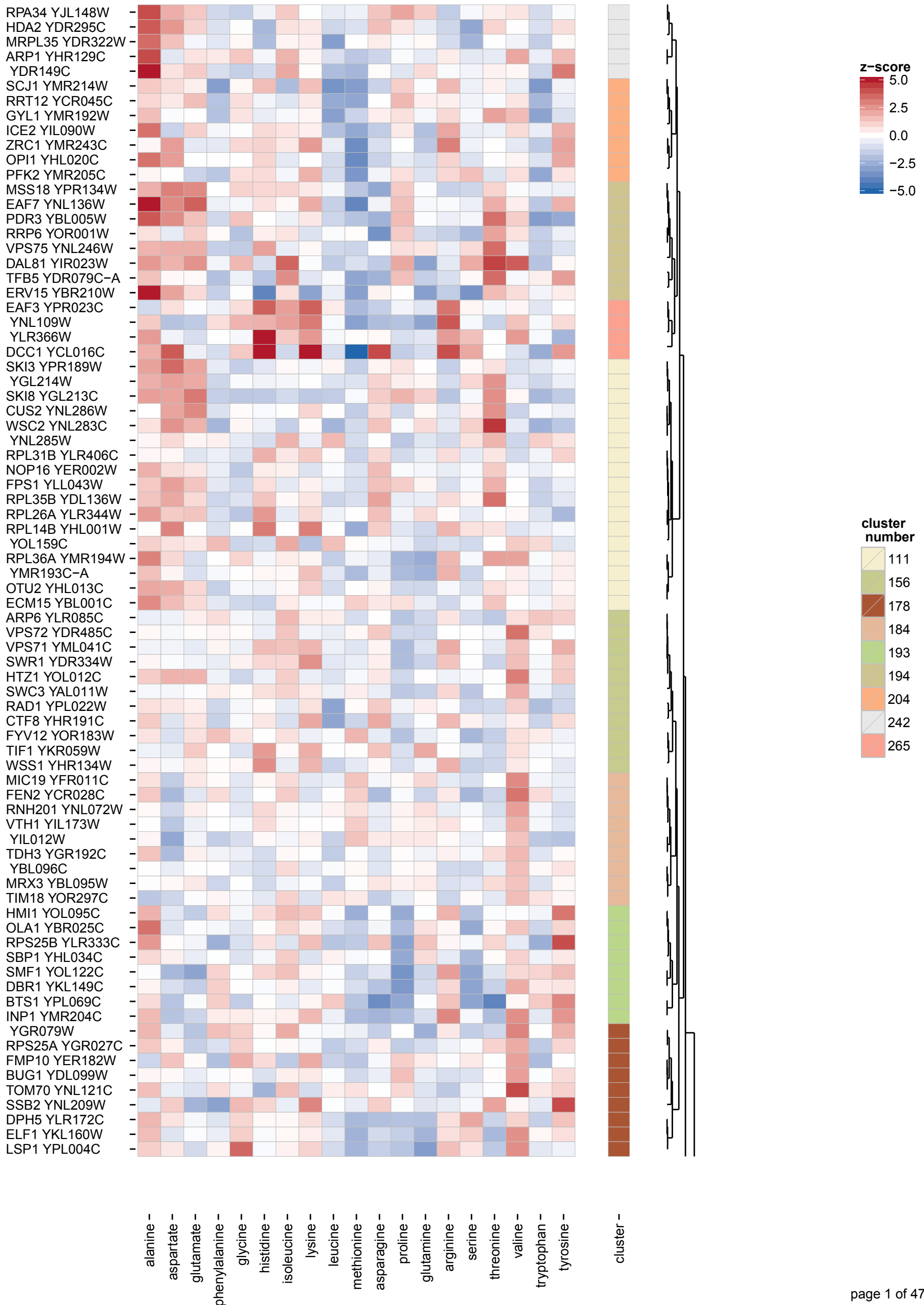


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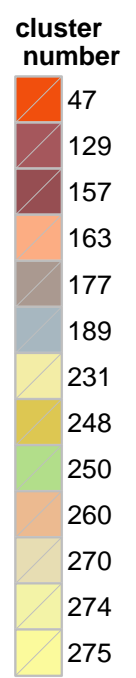
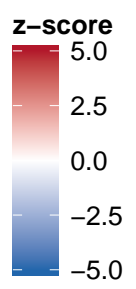
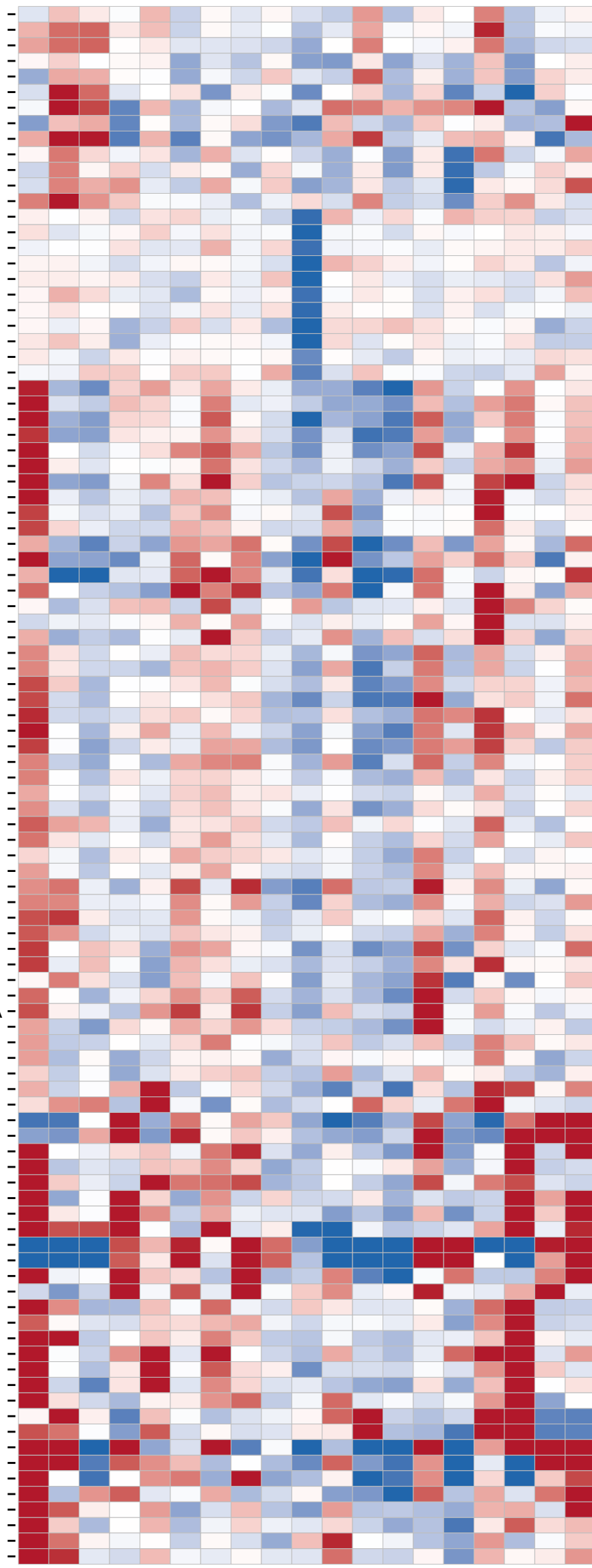


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280 similarity clusters informative of gene function

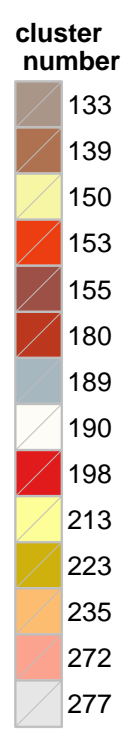
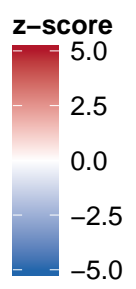
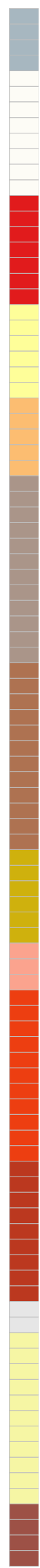
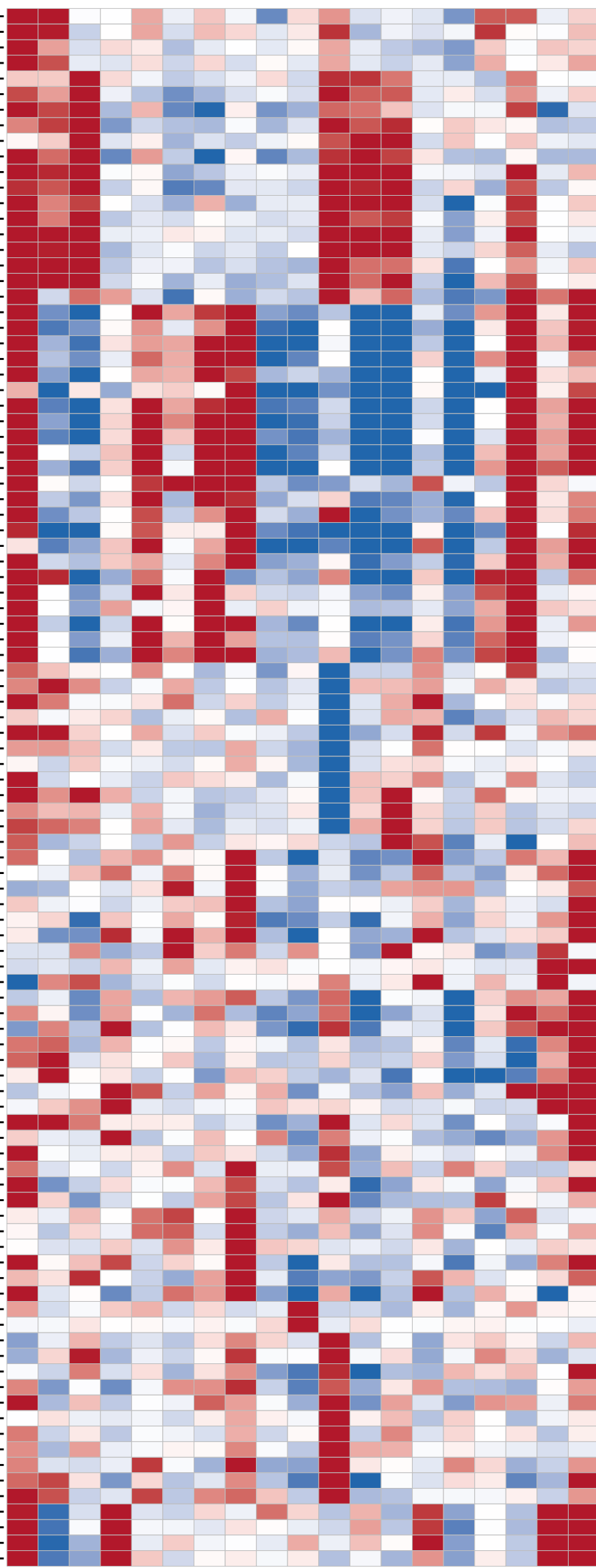


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 THP3 YPR045C
 BRE2 YLR015W
 BRE1 YDL074C
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 CLC1 YGR167W
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 IXR1 YKL032C
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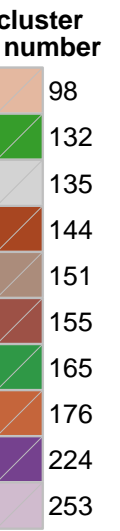
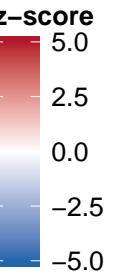
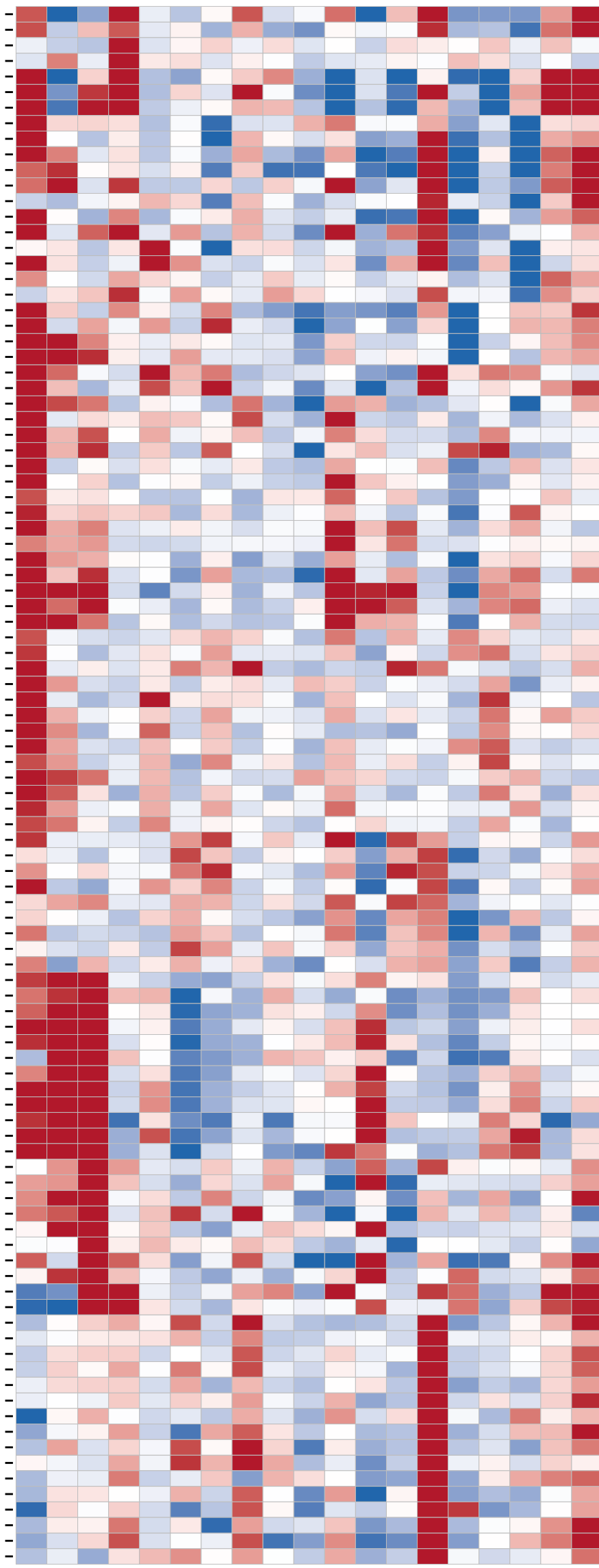
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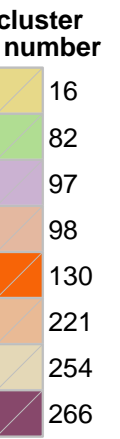
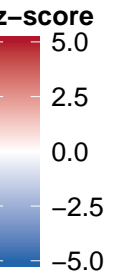
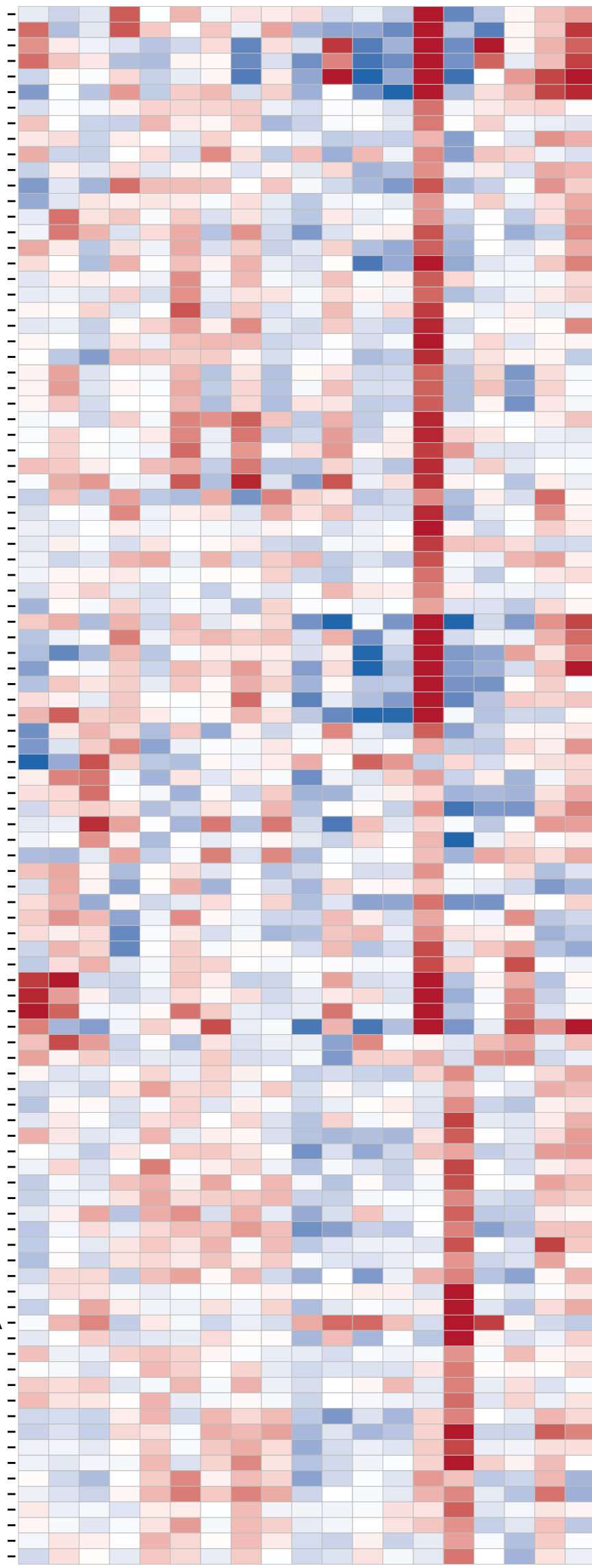
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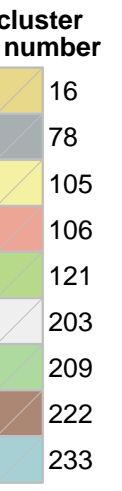
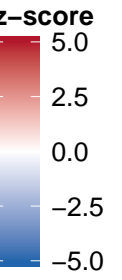
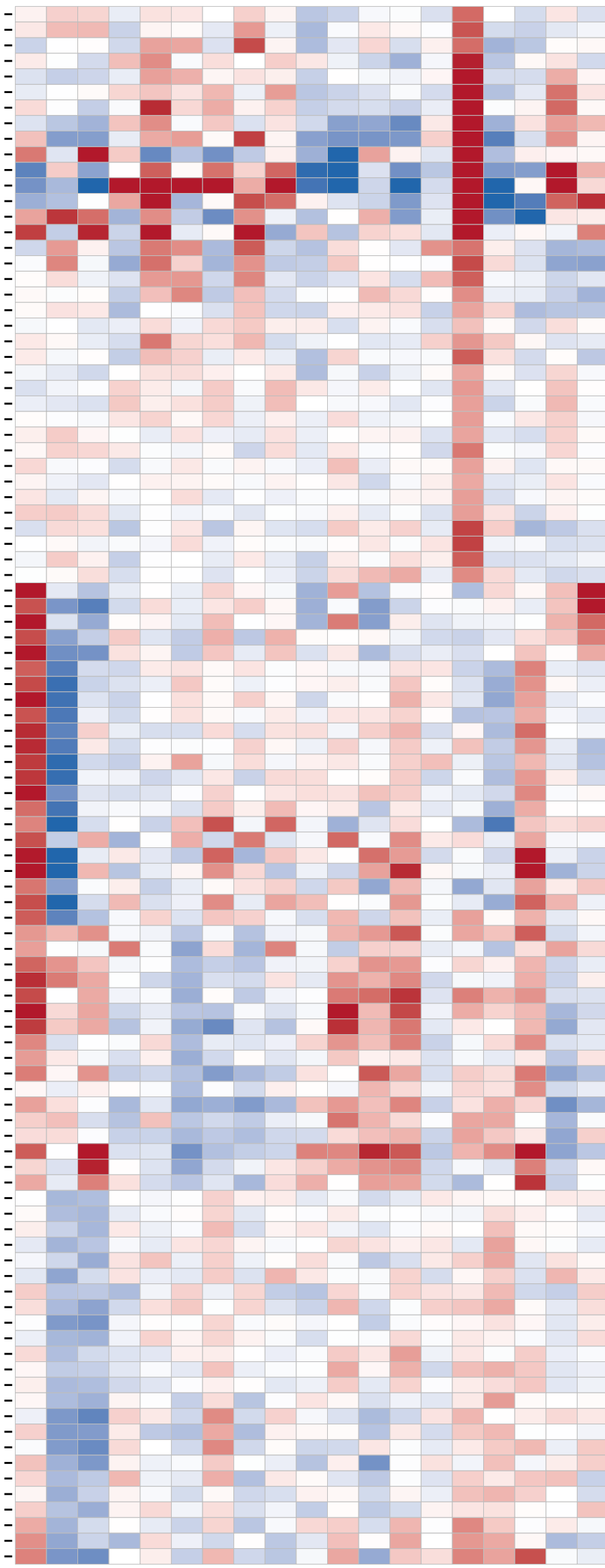
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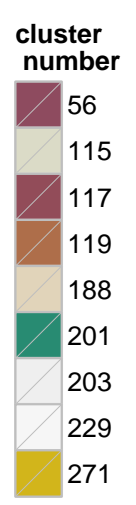
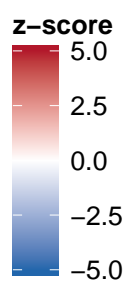
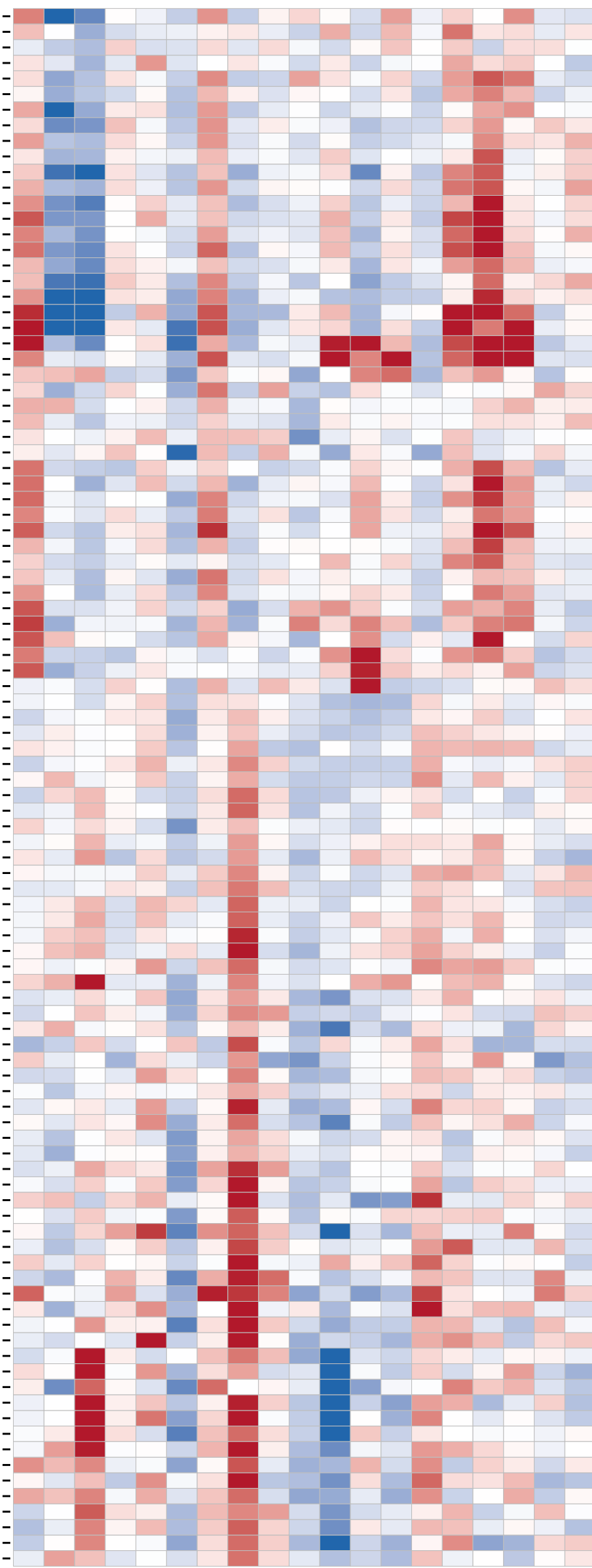
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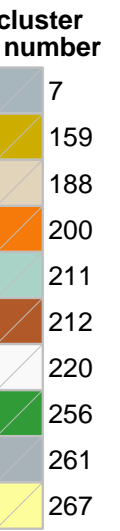
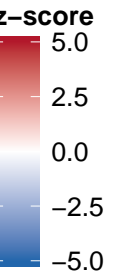
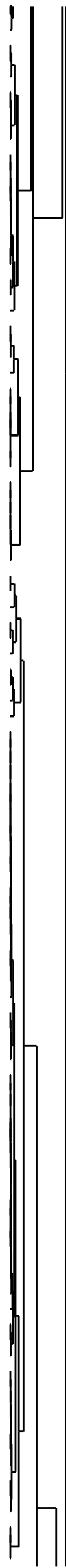
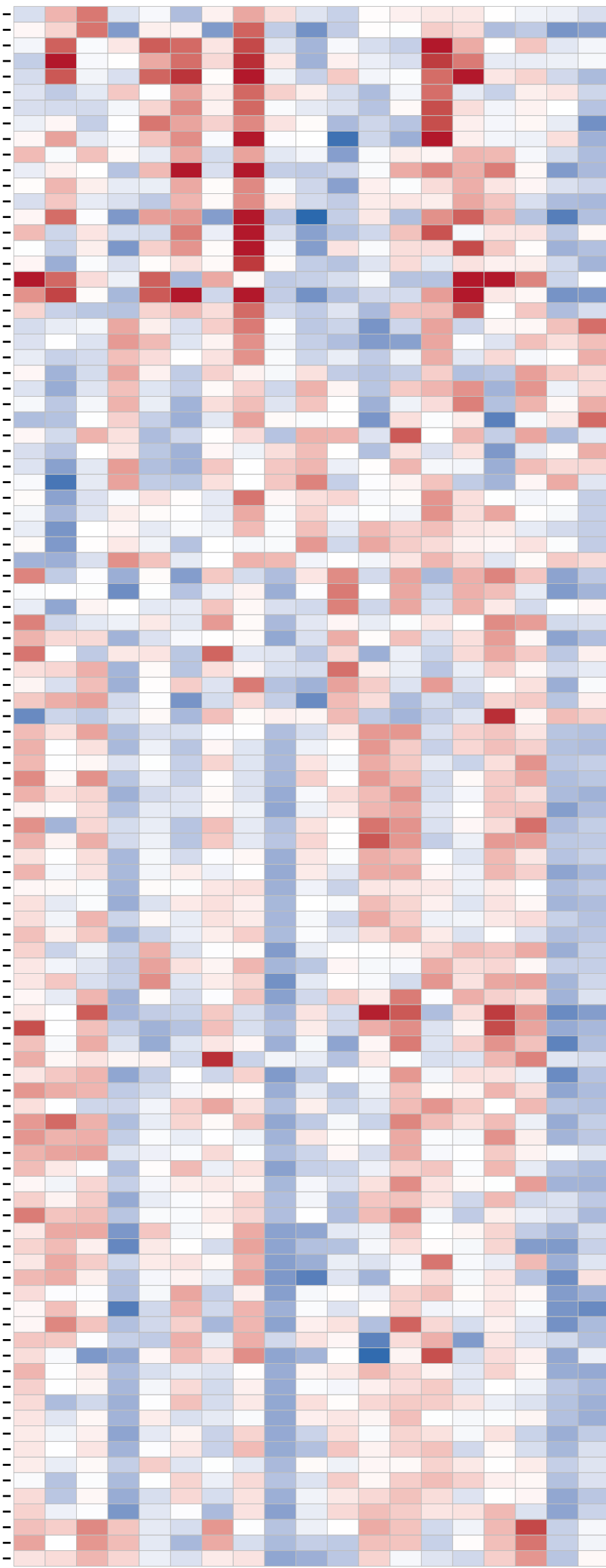
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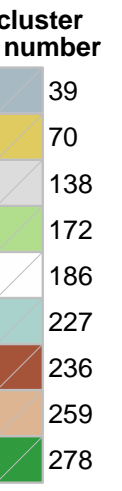
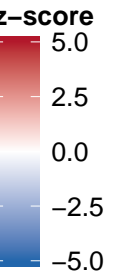
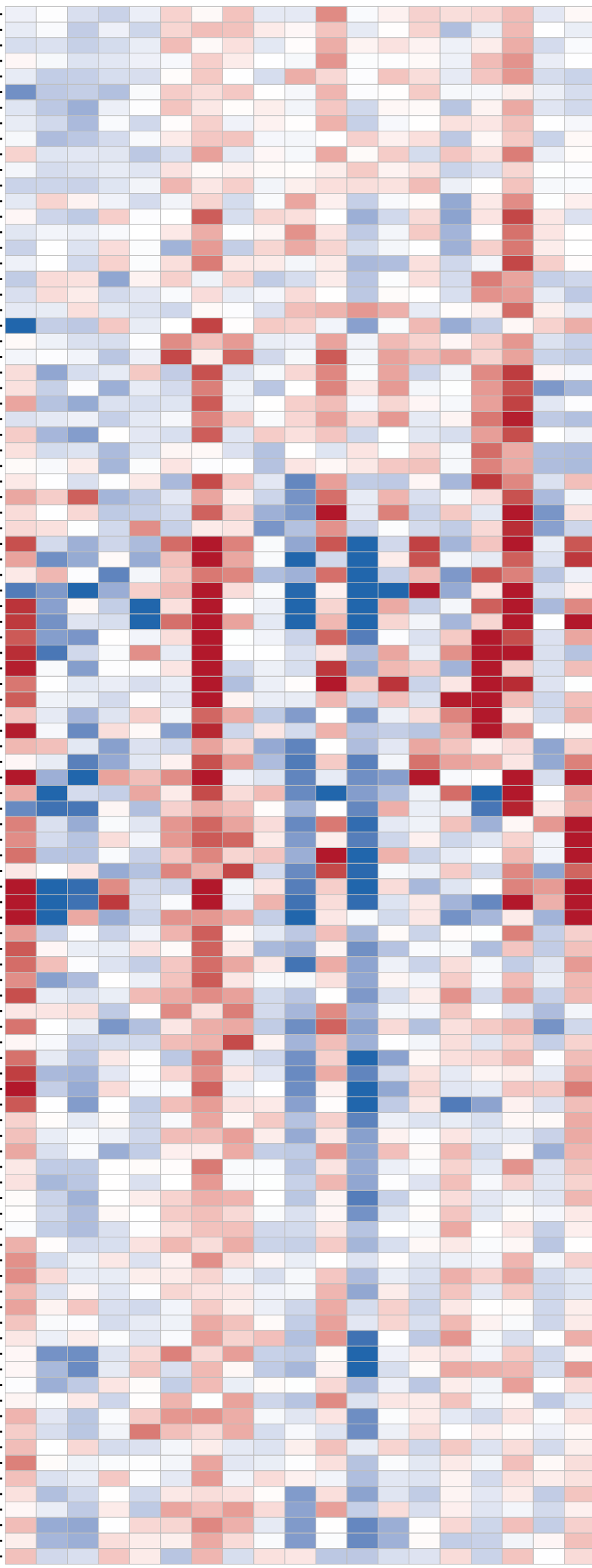
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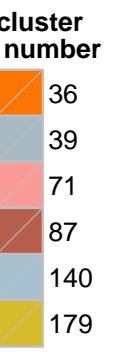
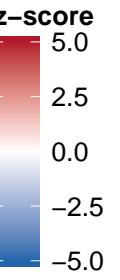
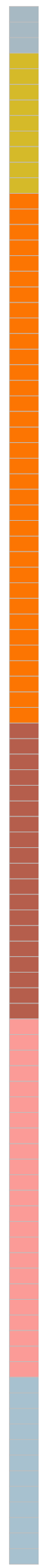
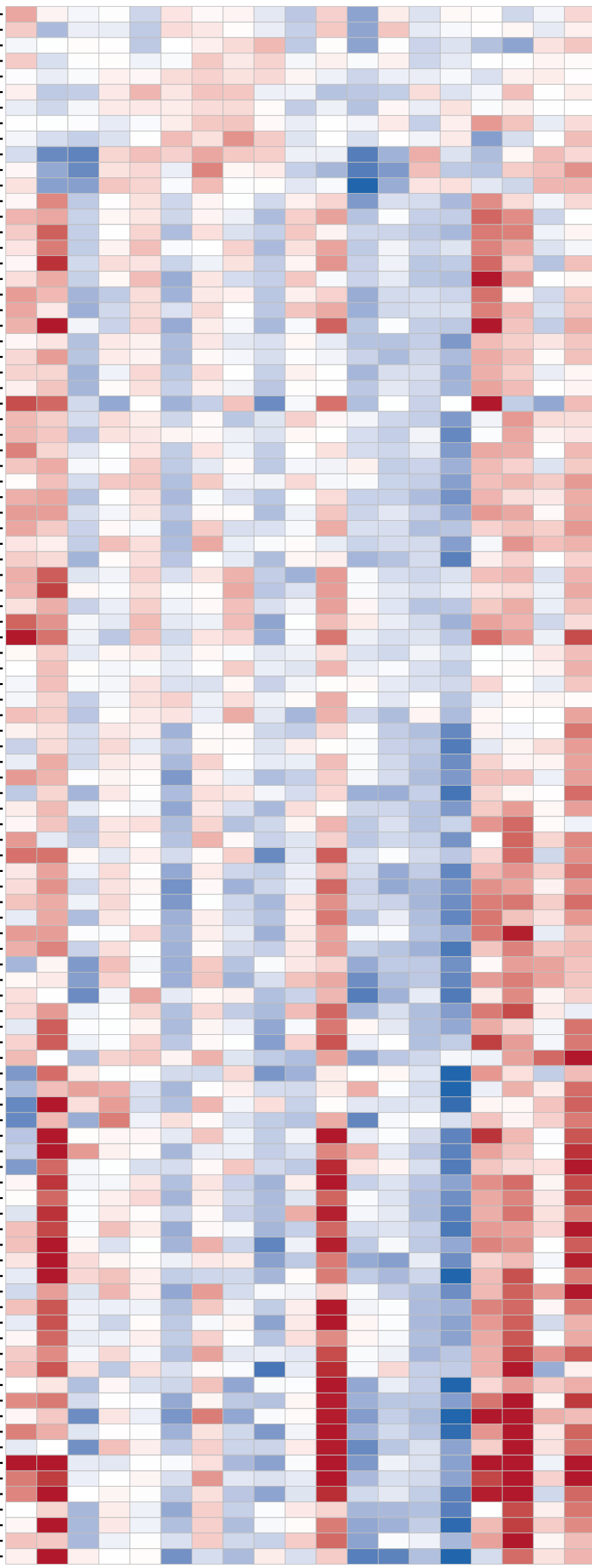
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 tyrosine -
 cluster -

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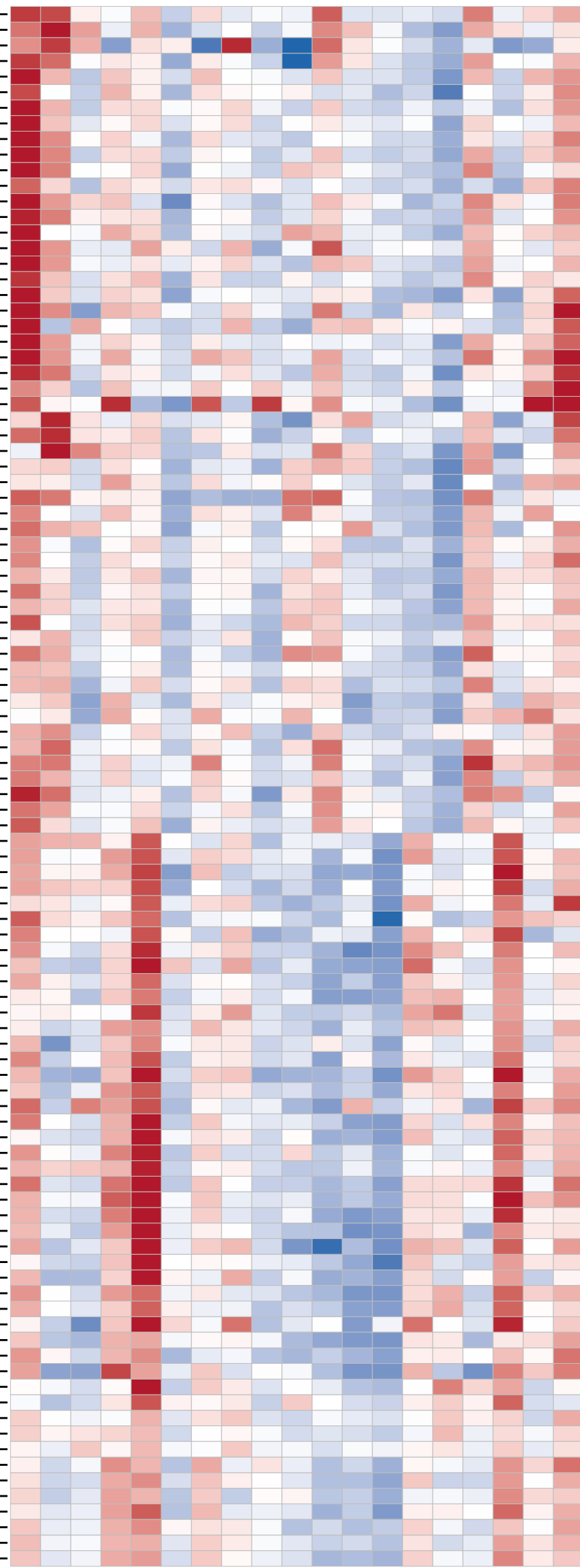
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alanine -
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 glutamate -
 phenylalanine -
 glycine -
 histidine -
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 lysine -
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 valine -
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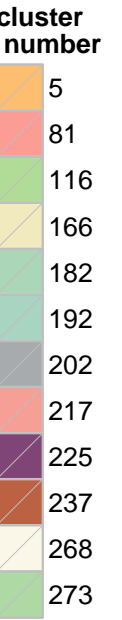
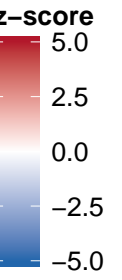
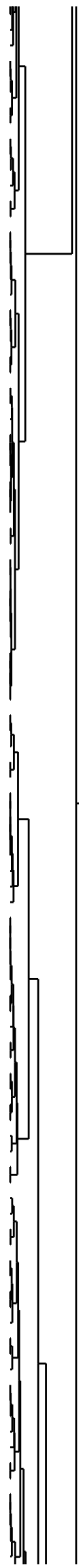
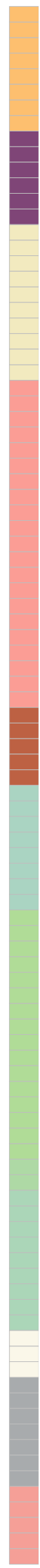
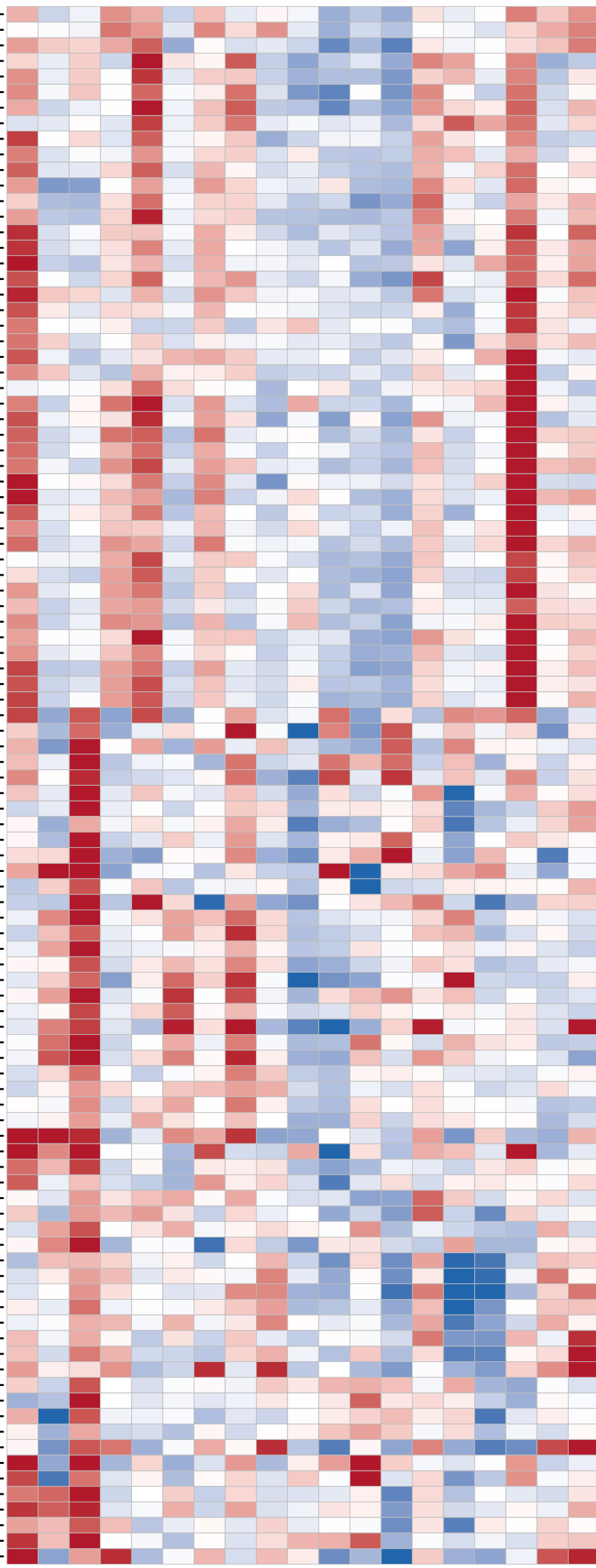


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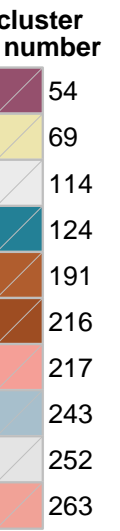
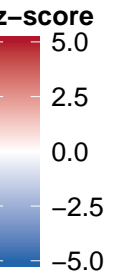
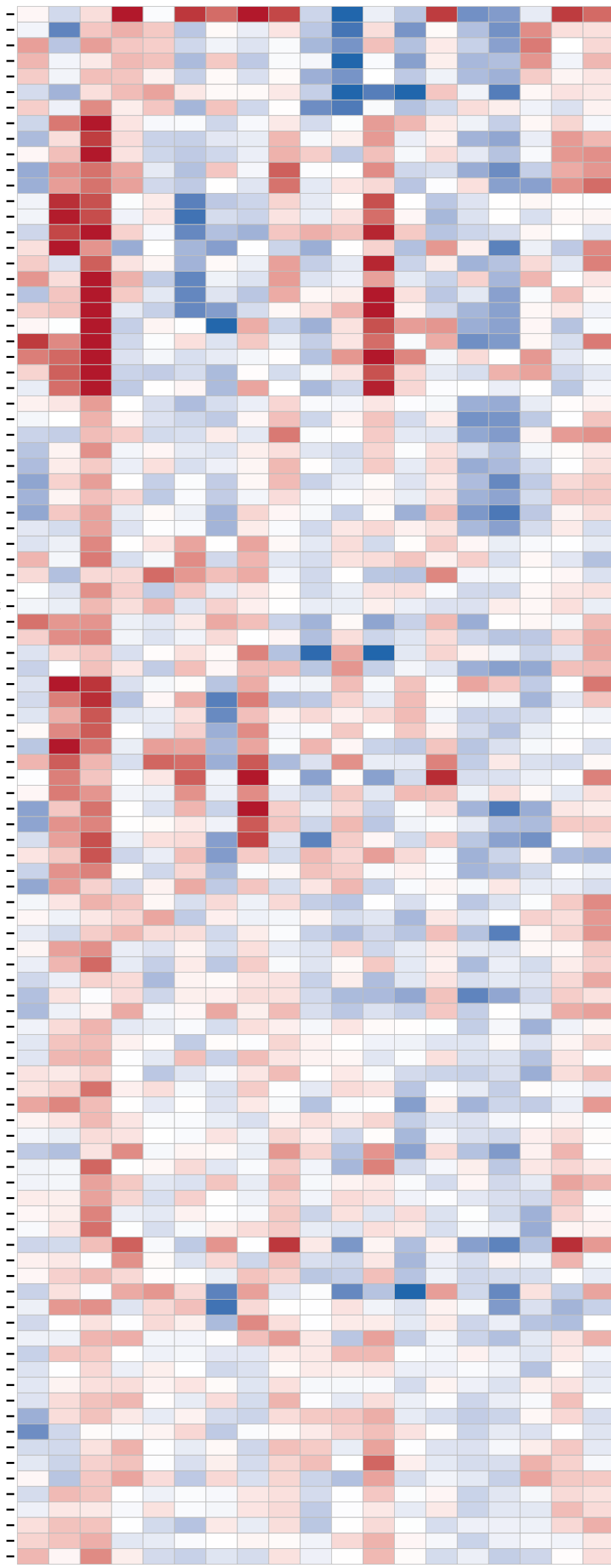
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 cluster -

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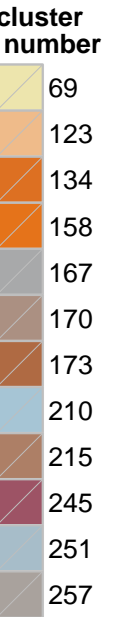
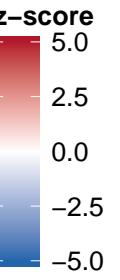
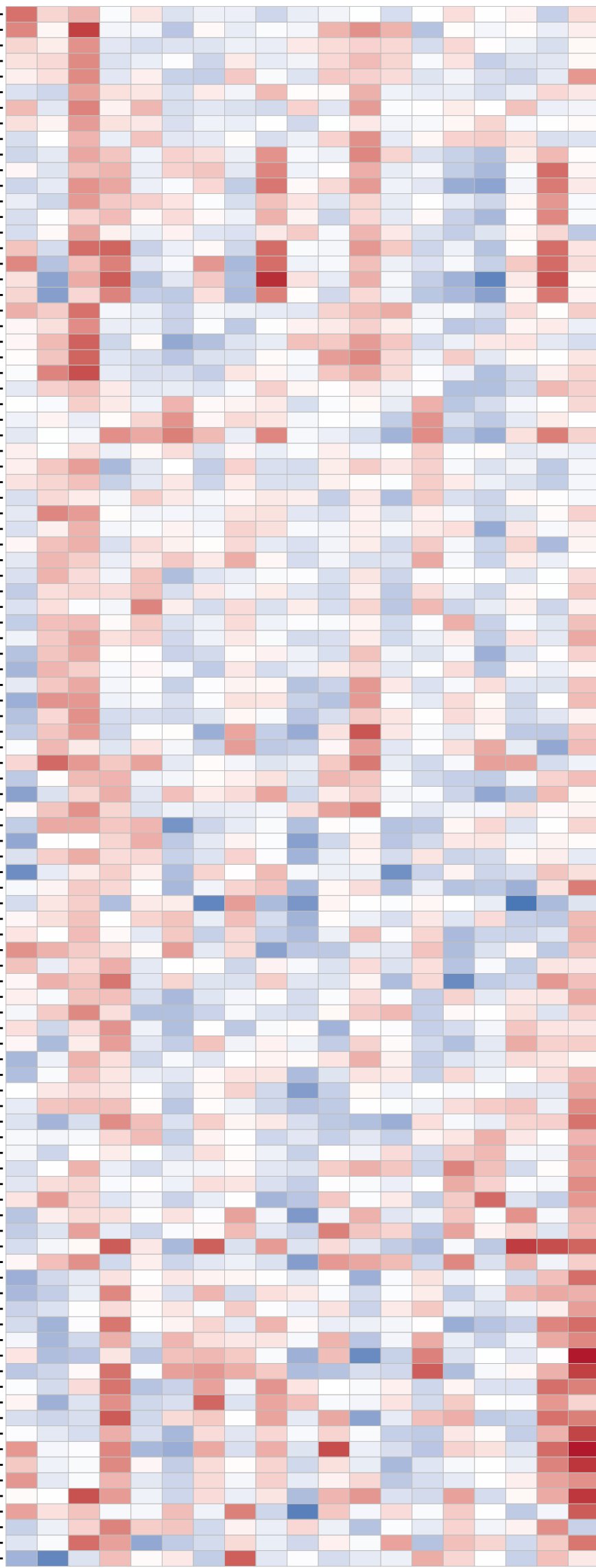
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 GOS1 YHL031C
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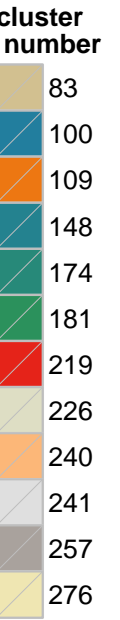
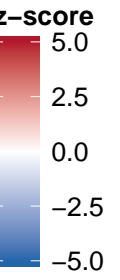
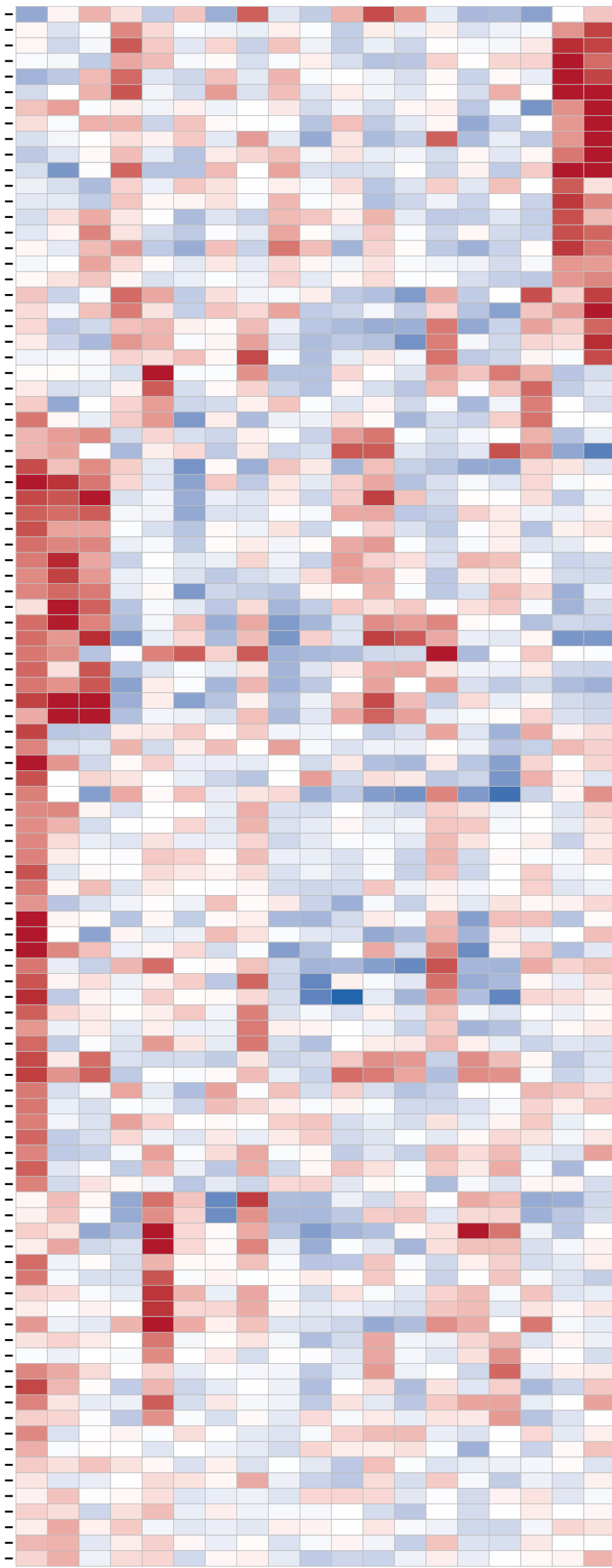
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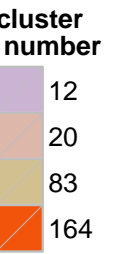
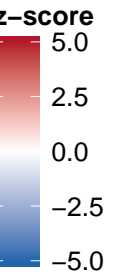
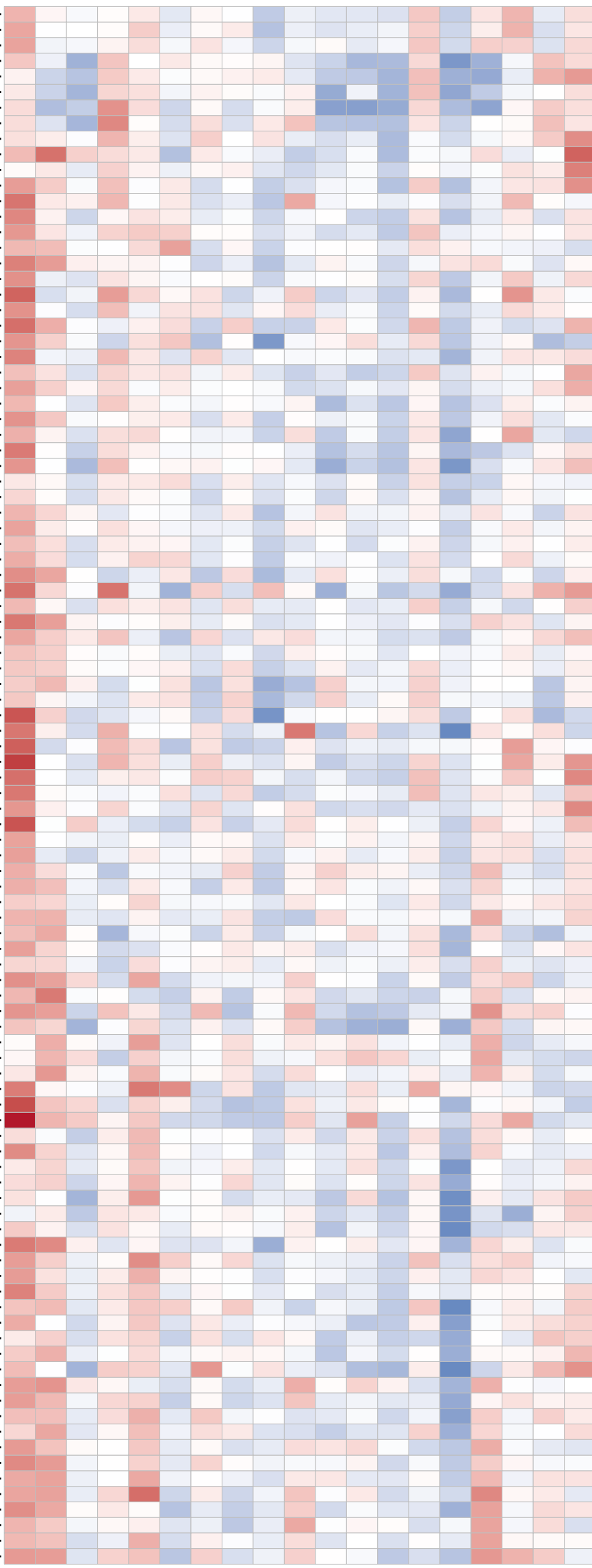
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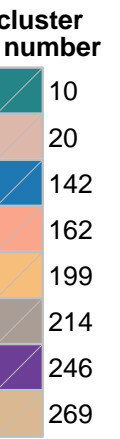
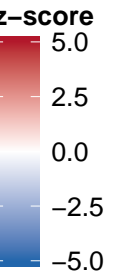
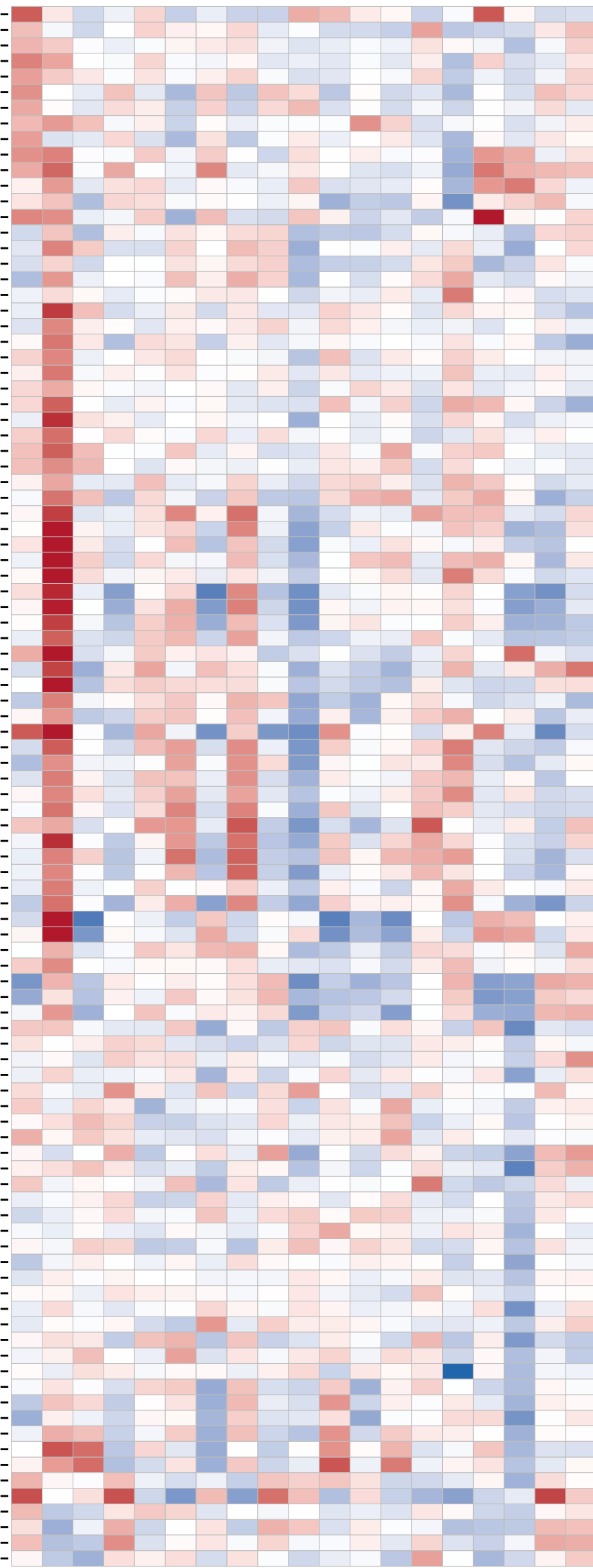
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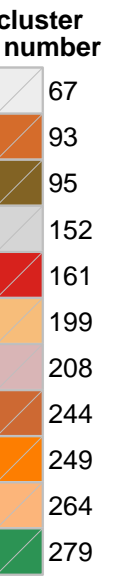
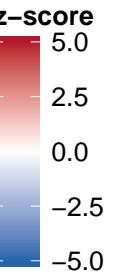
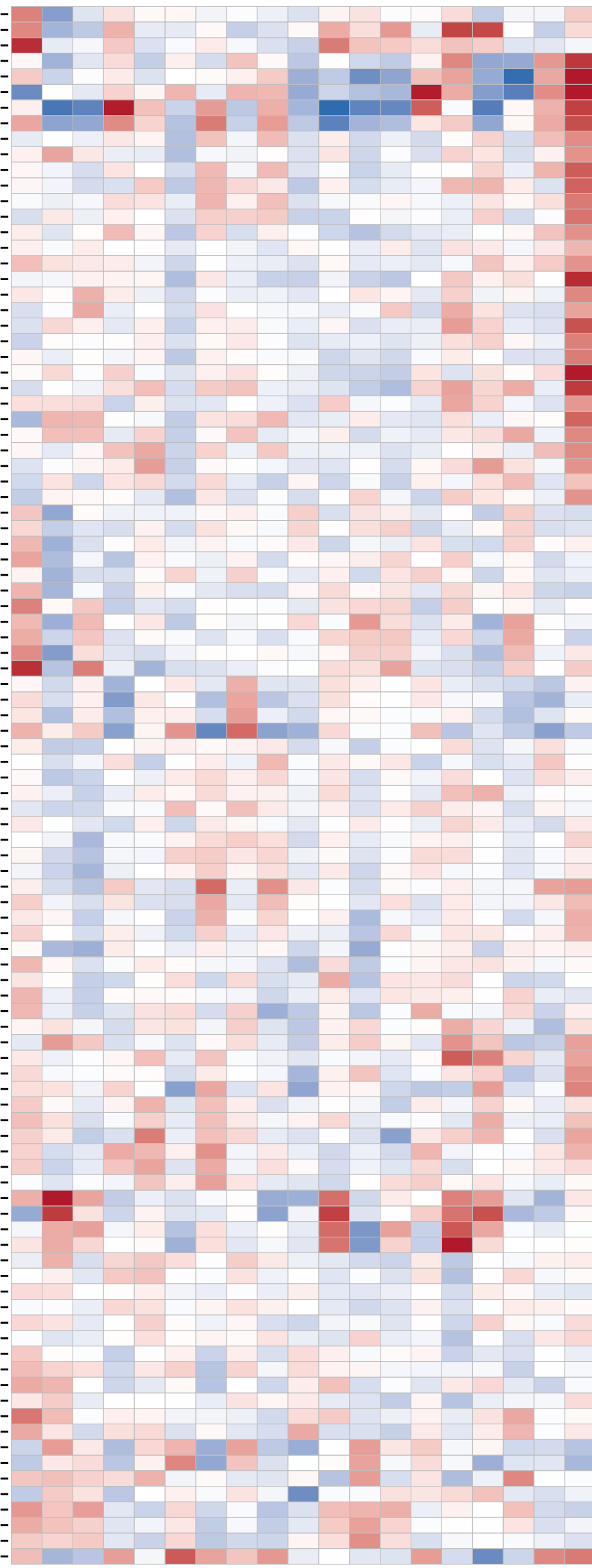
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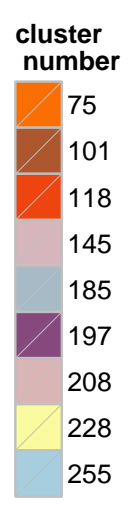
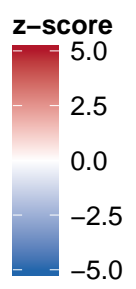
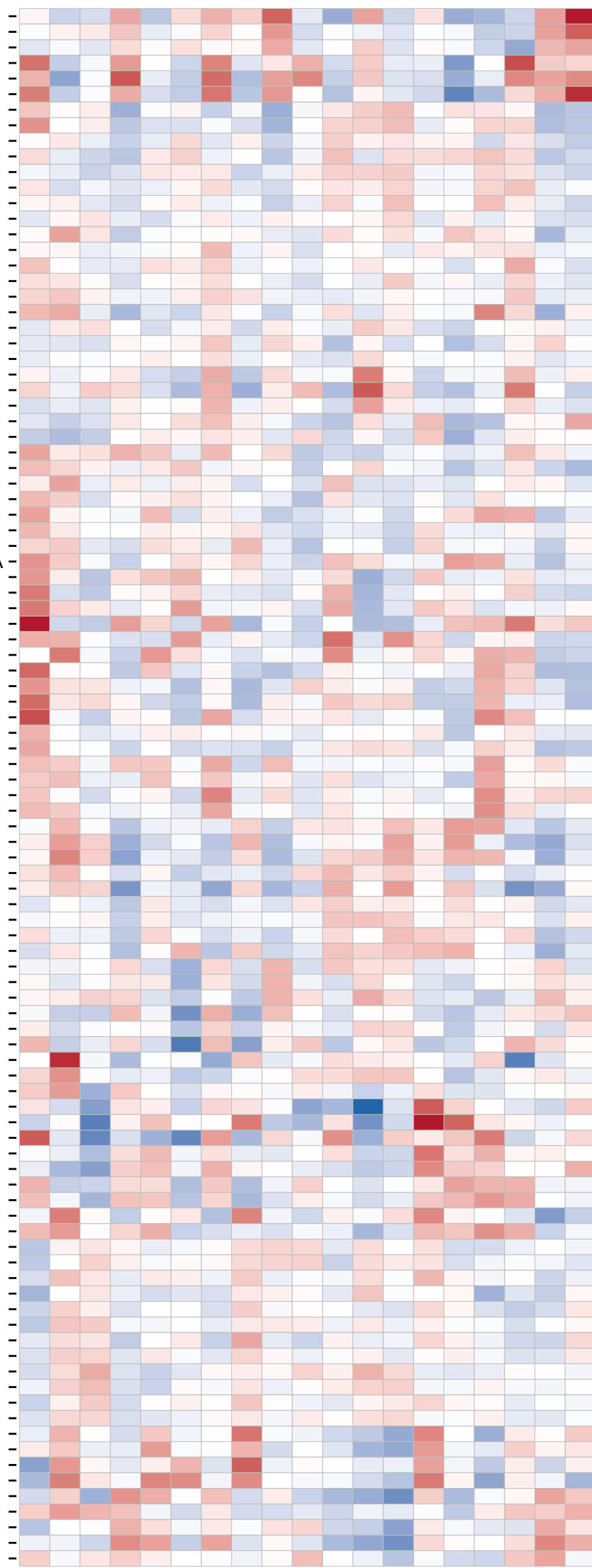
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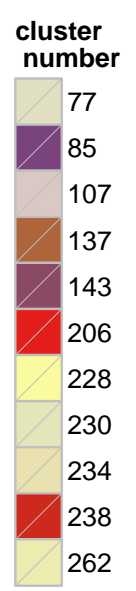
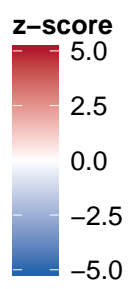
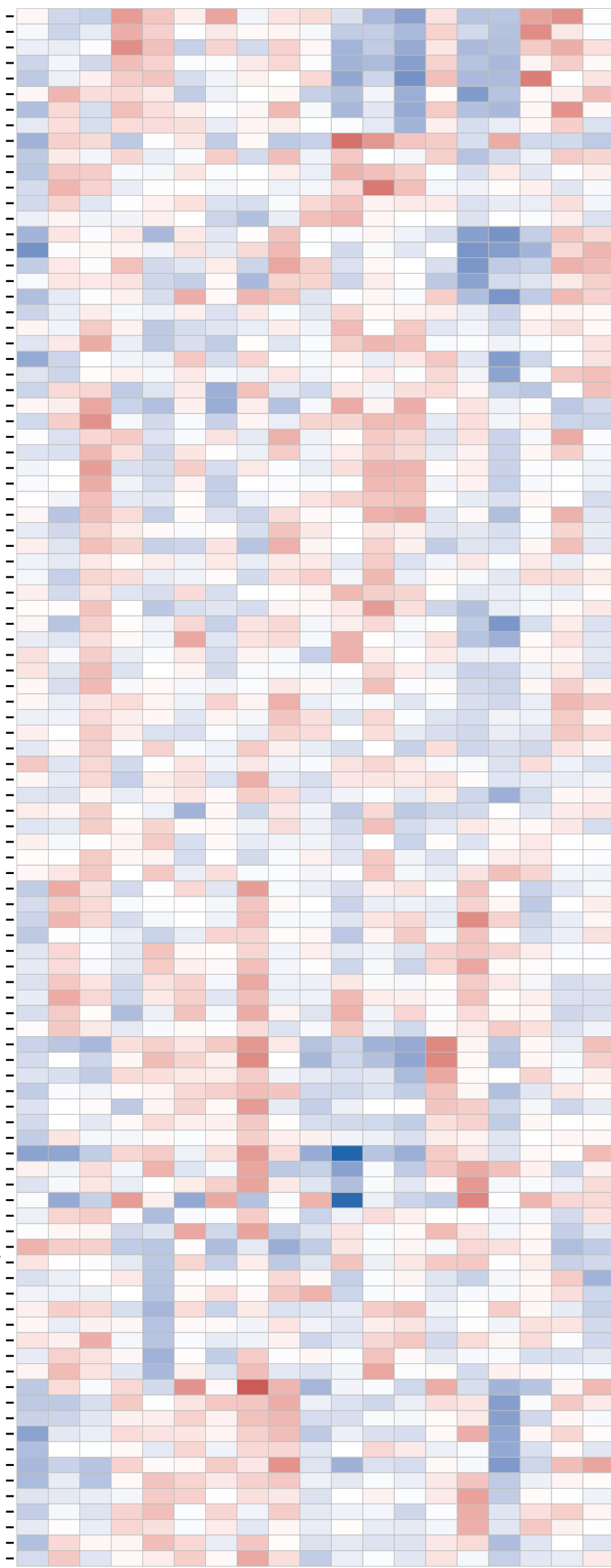
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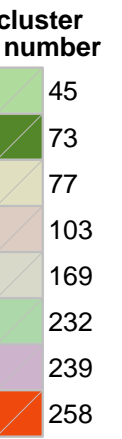
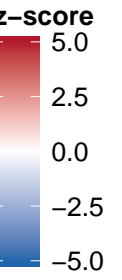
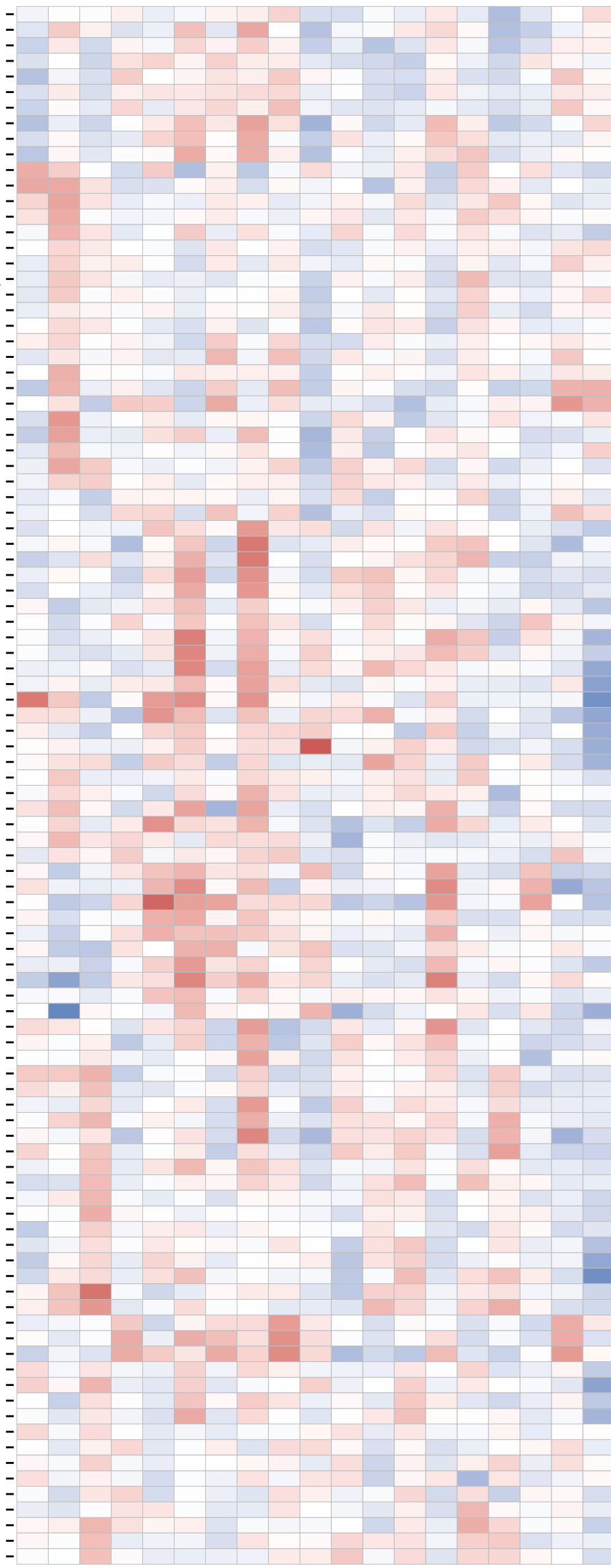
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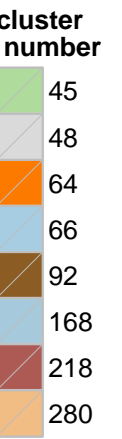
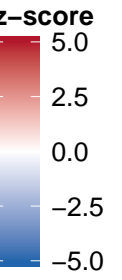
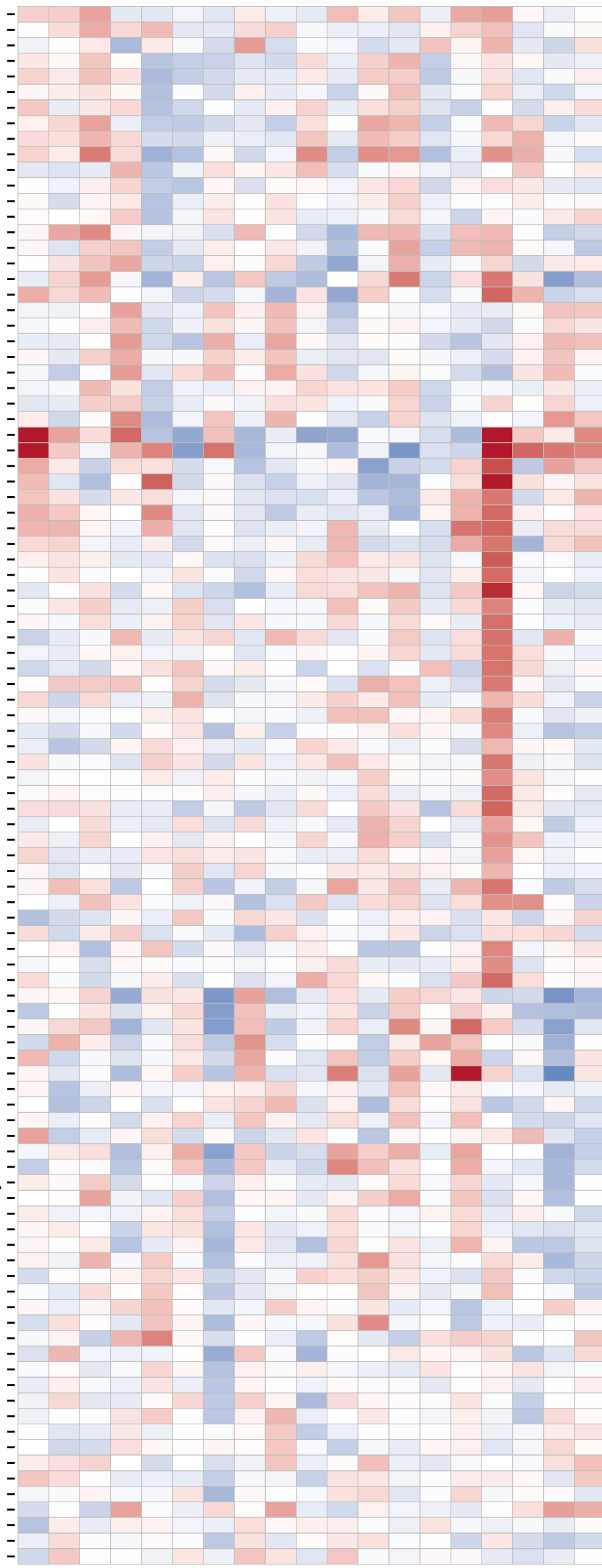
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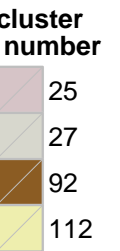
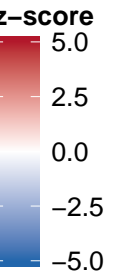
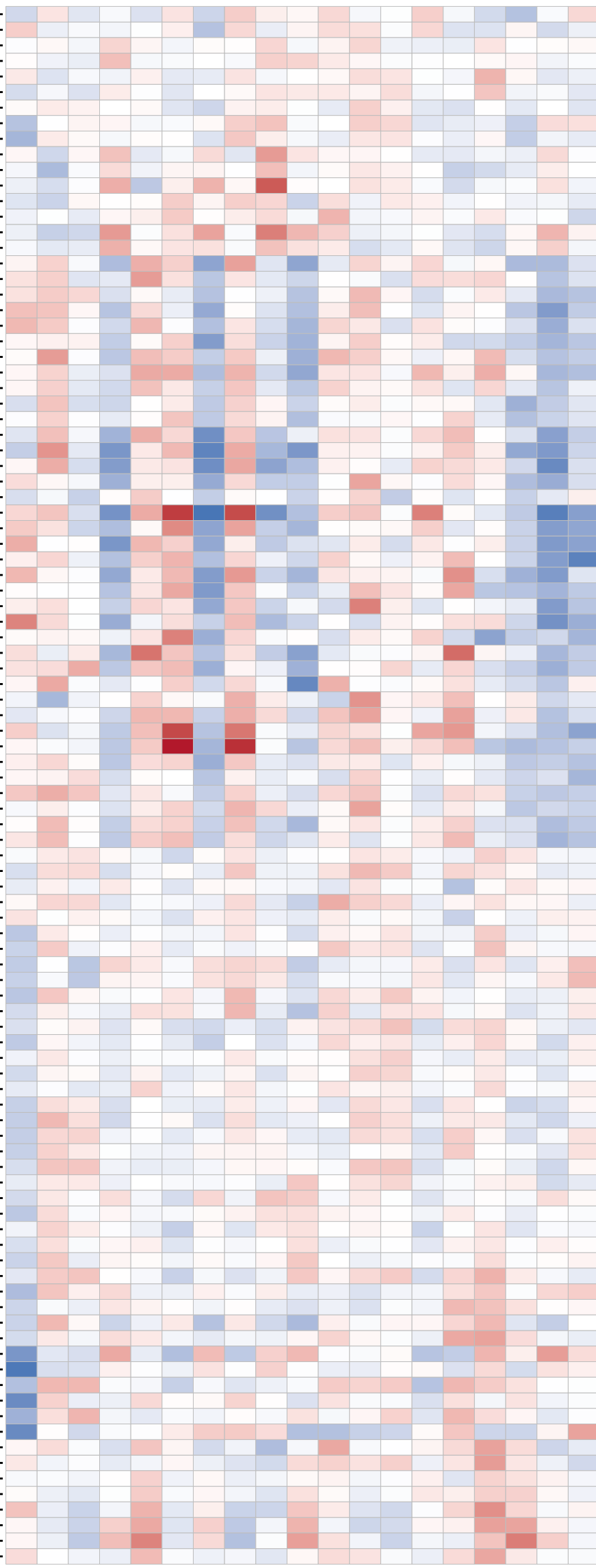
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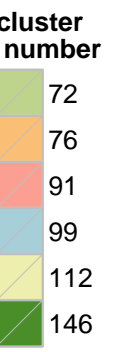
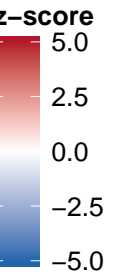
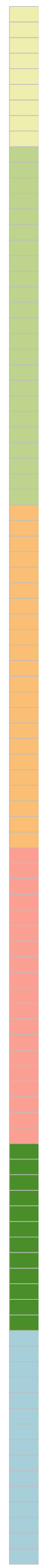
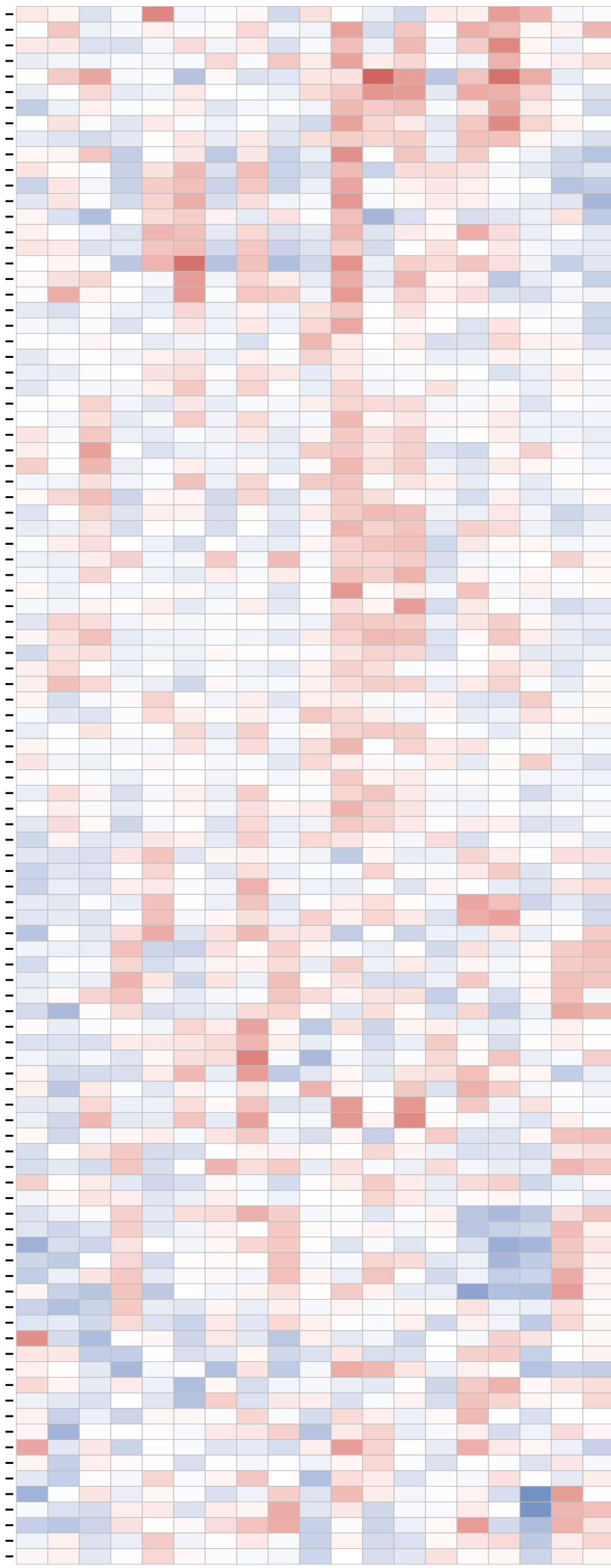
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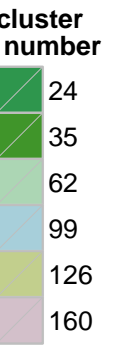
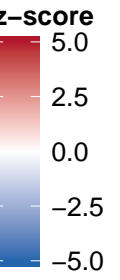
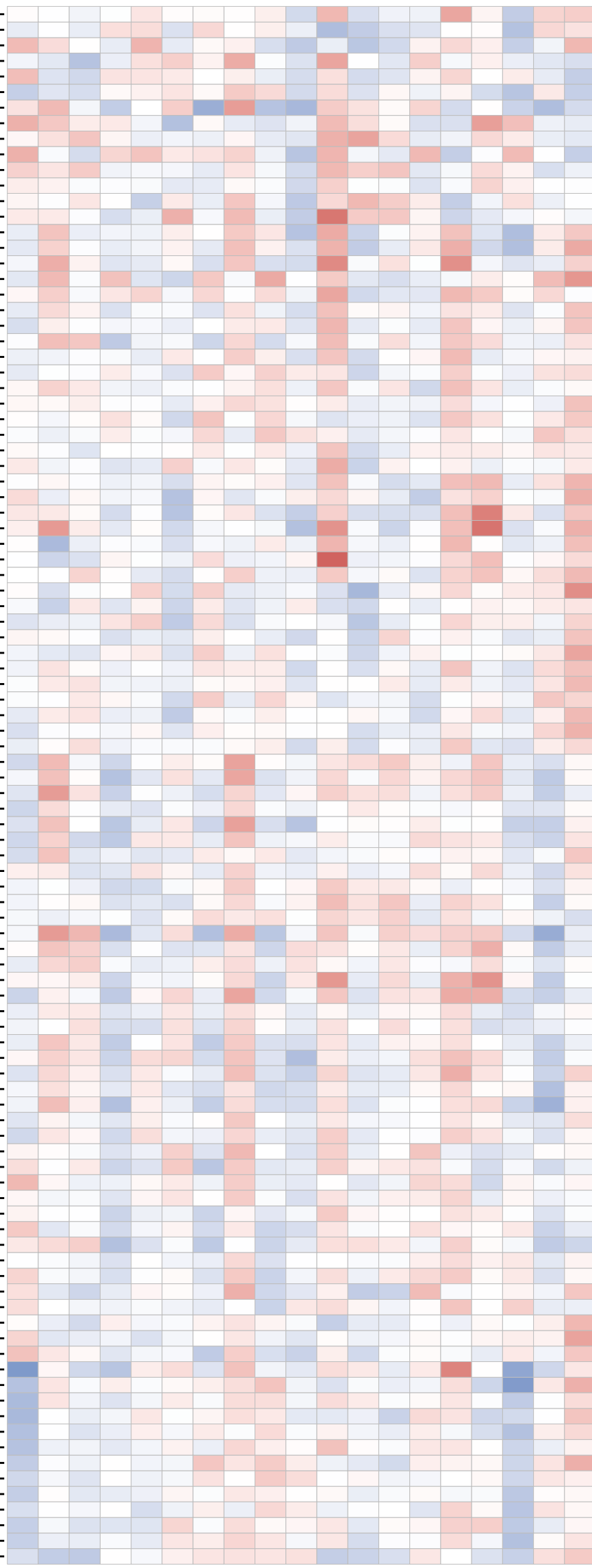
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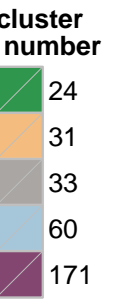
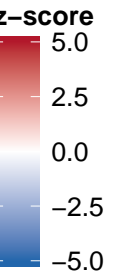
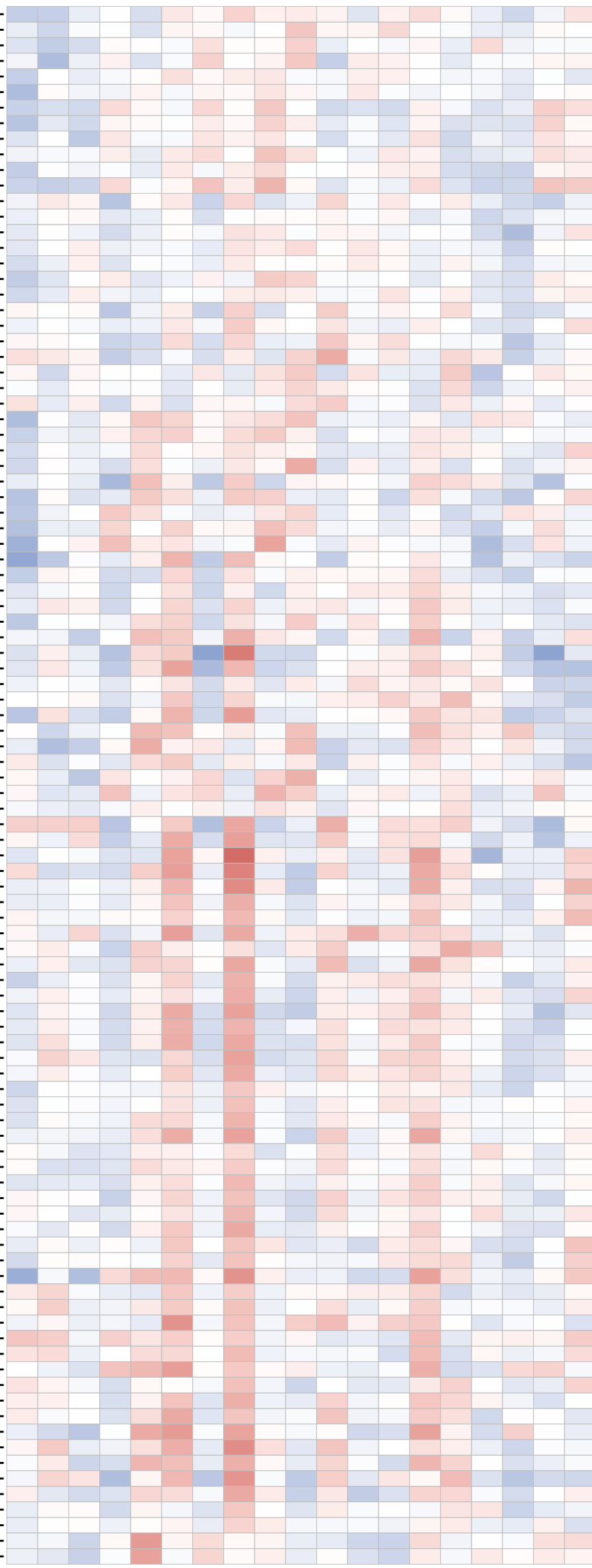
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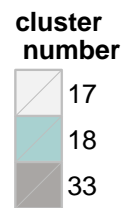
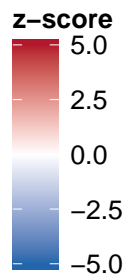
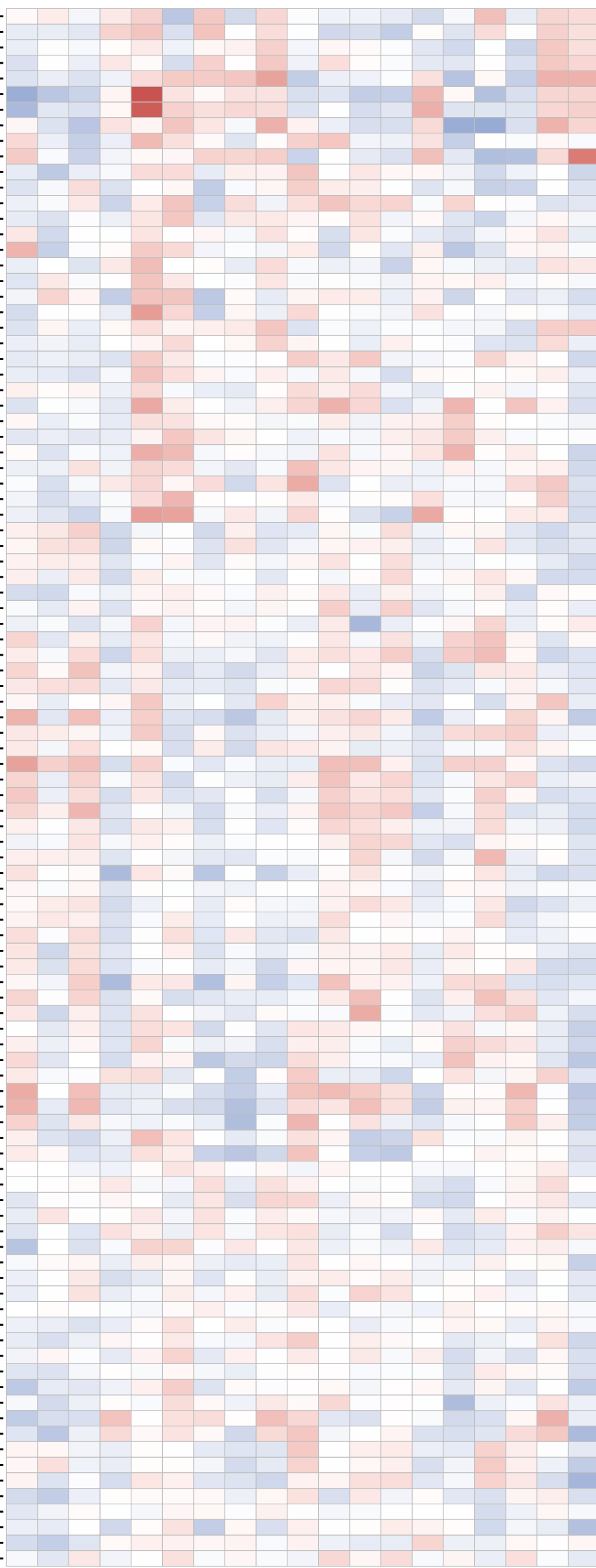
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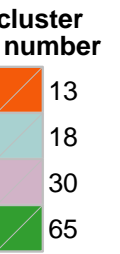
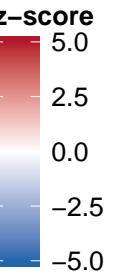
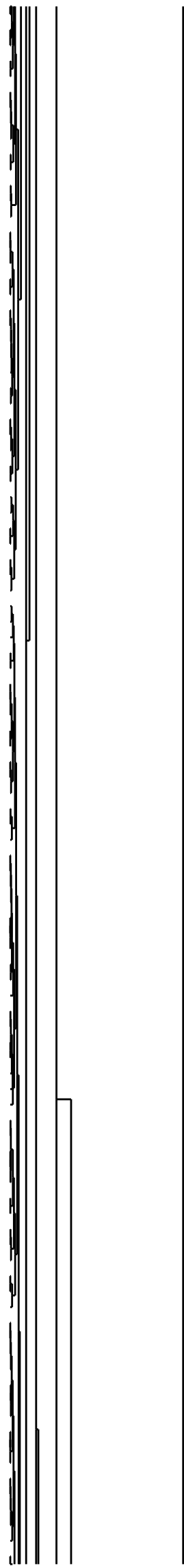
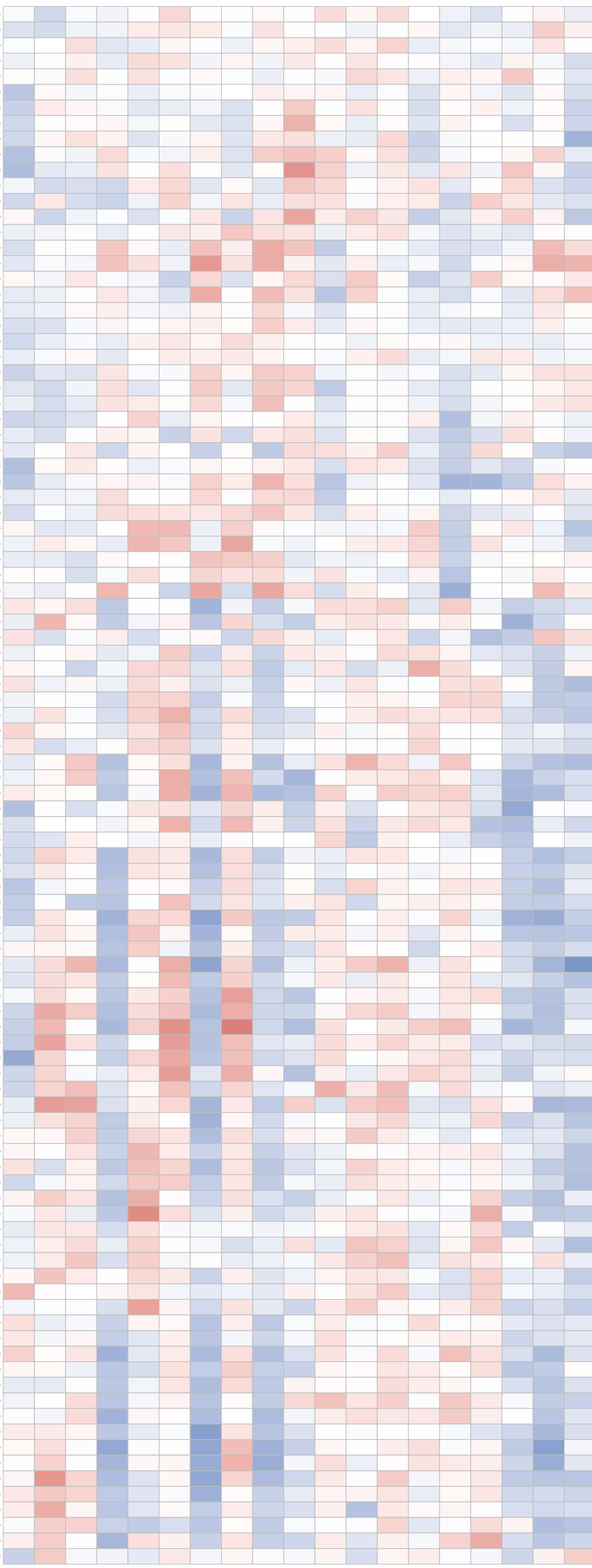
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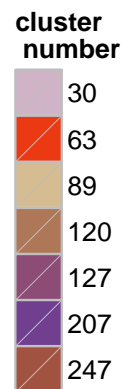
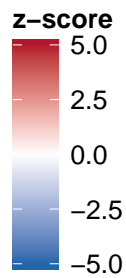
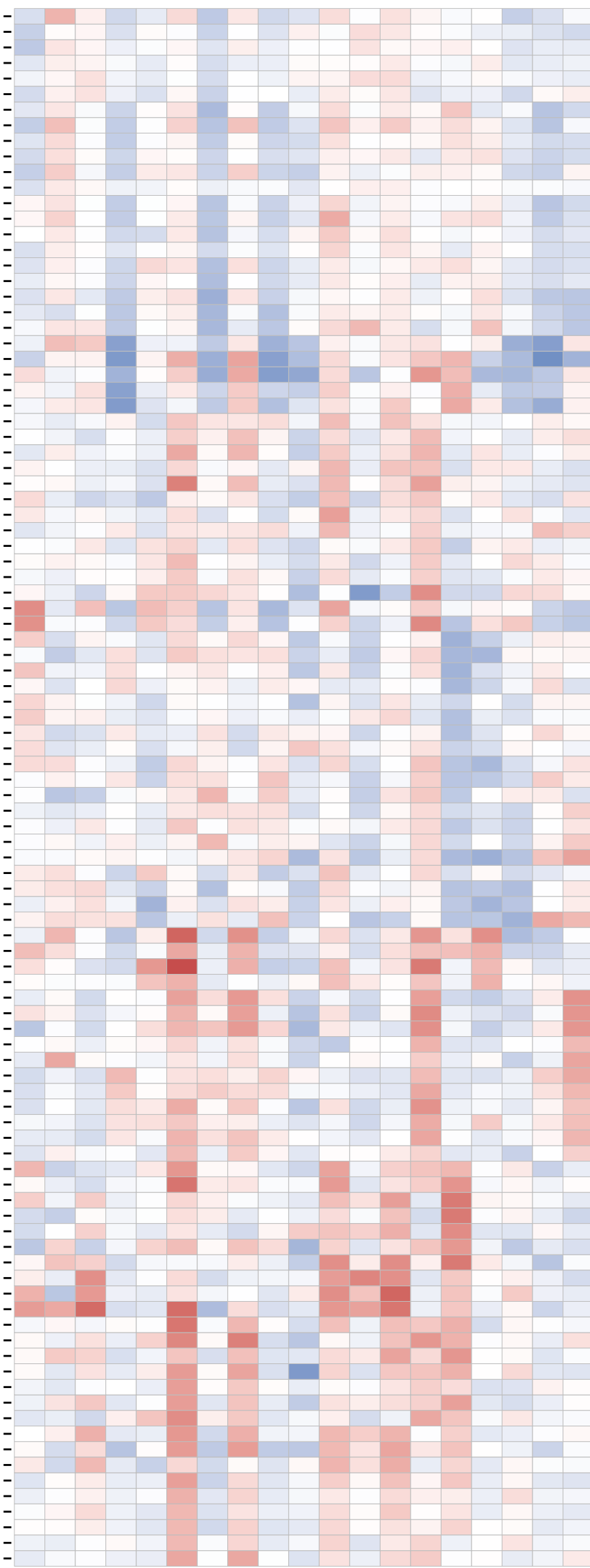
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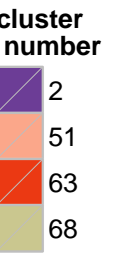
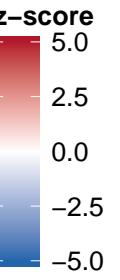
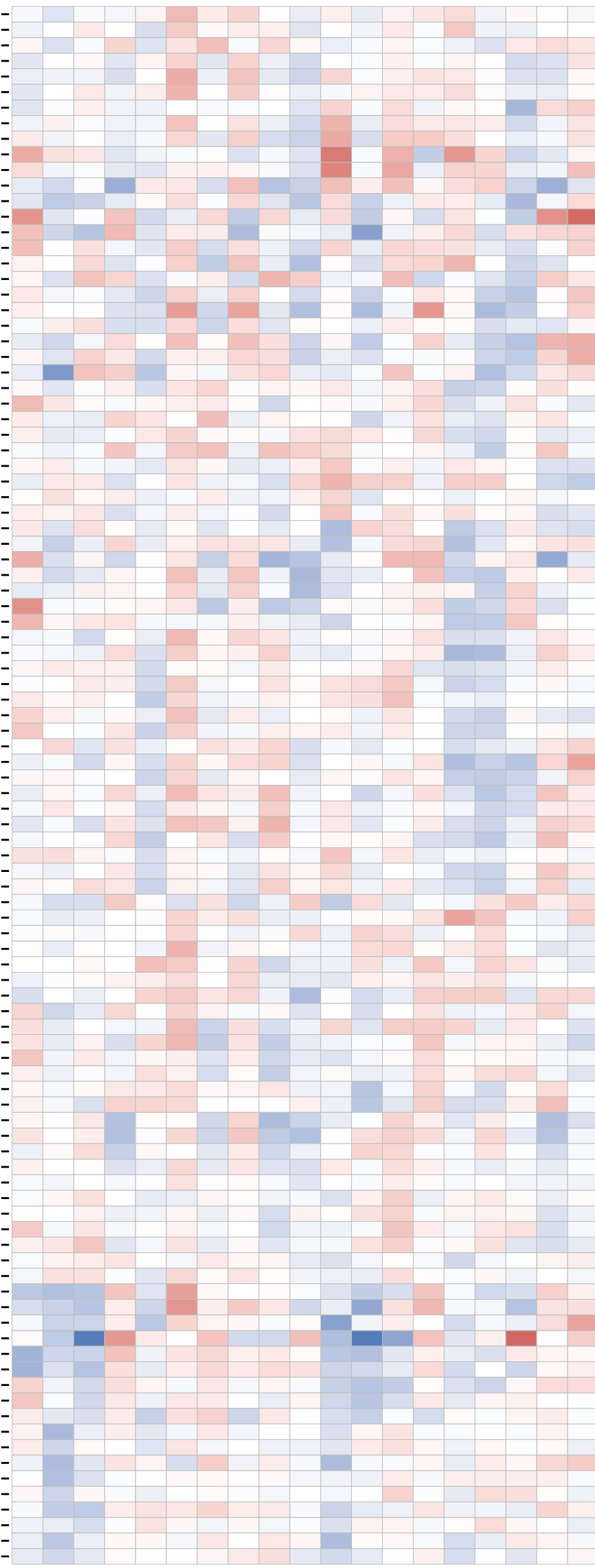
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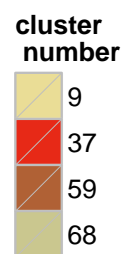
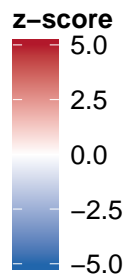
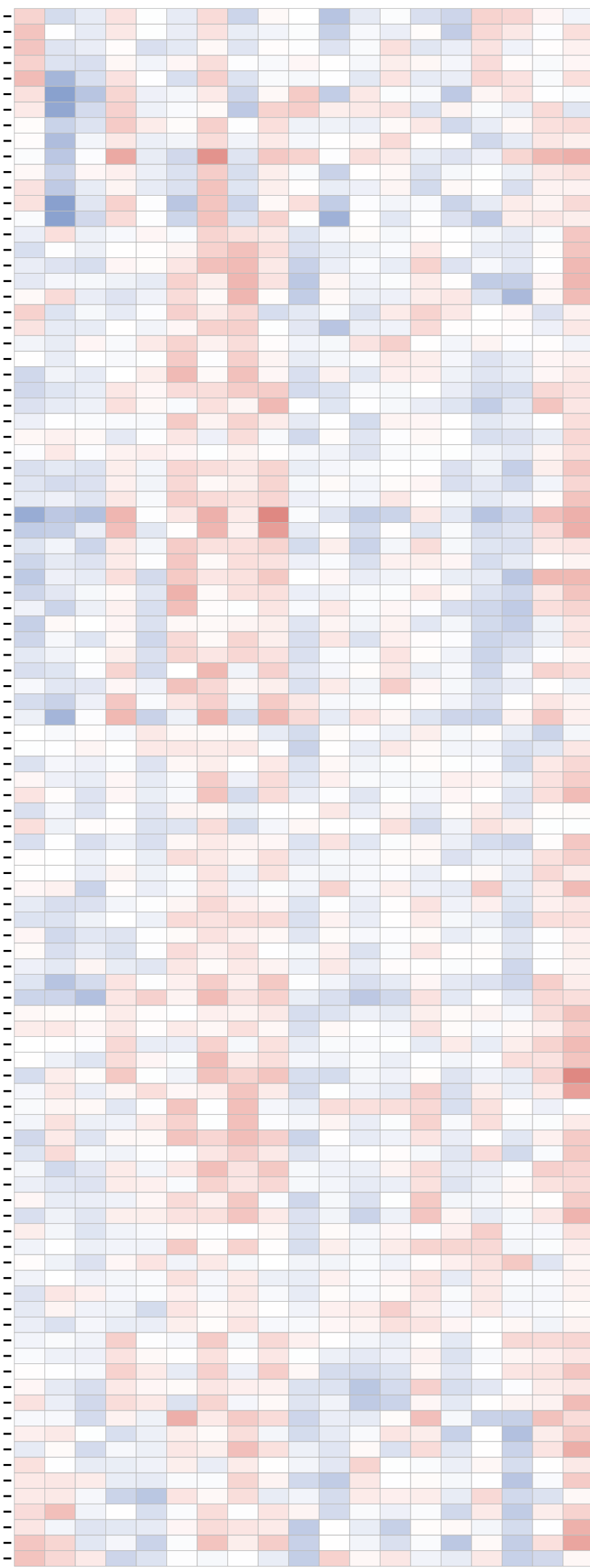
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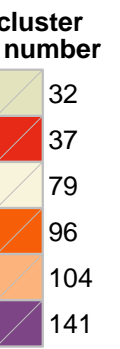
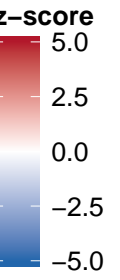
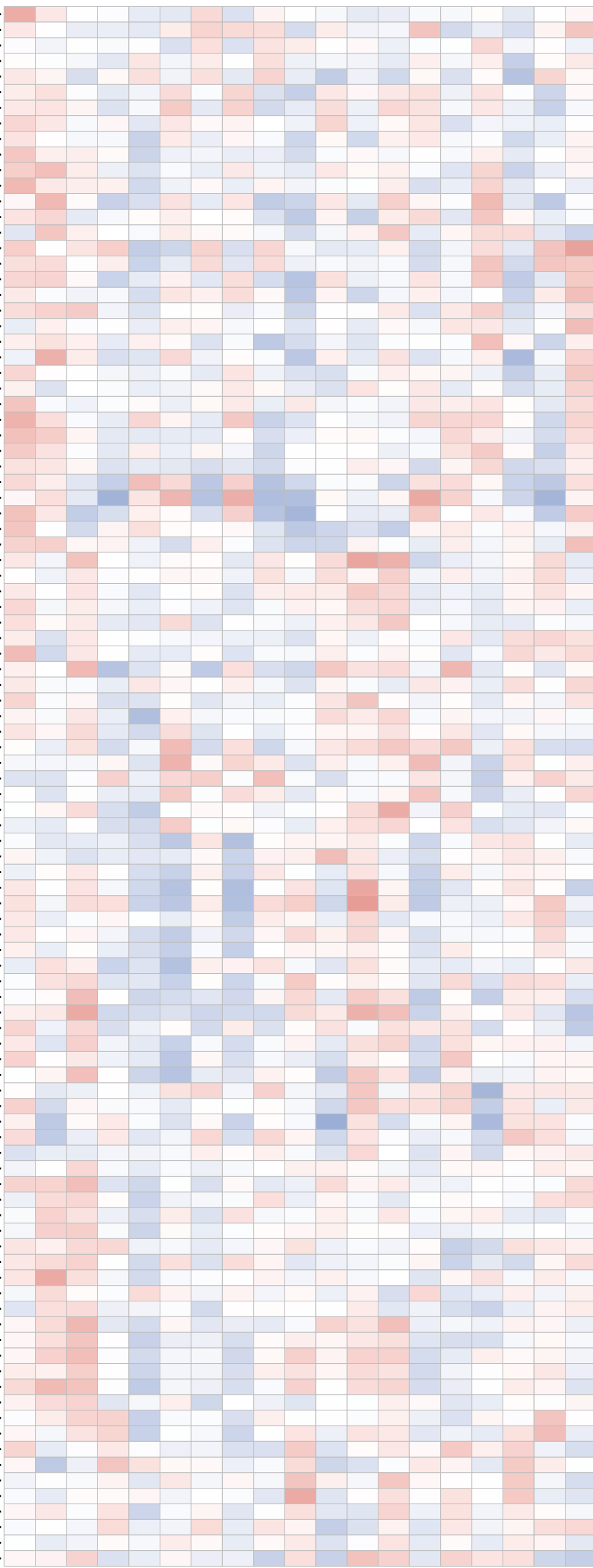
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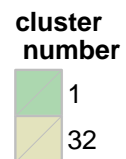
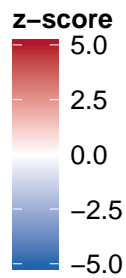
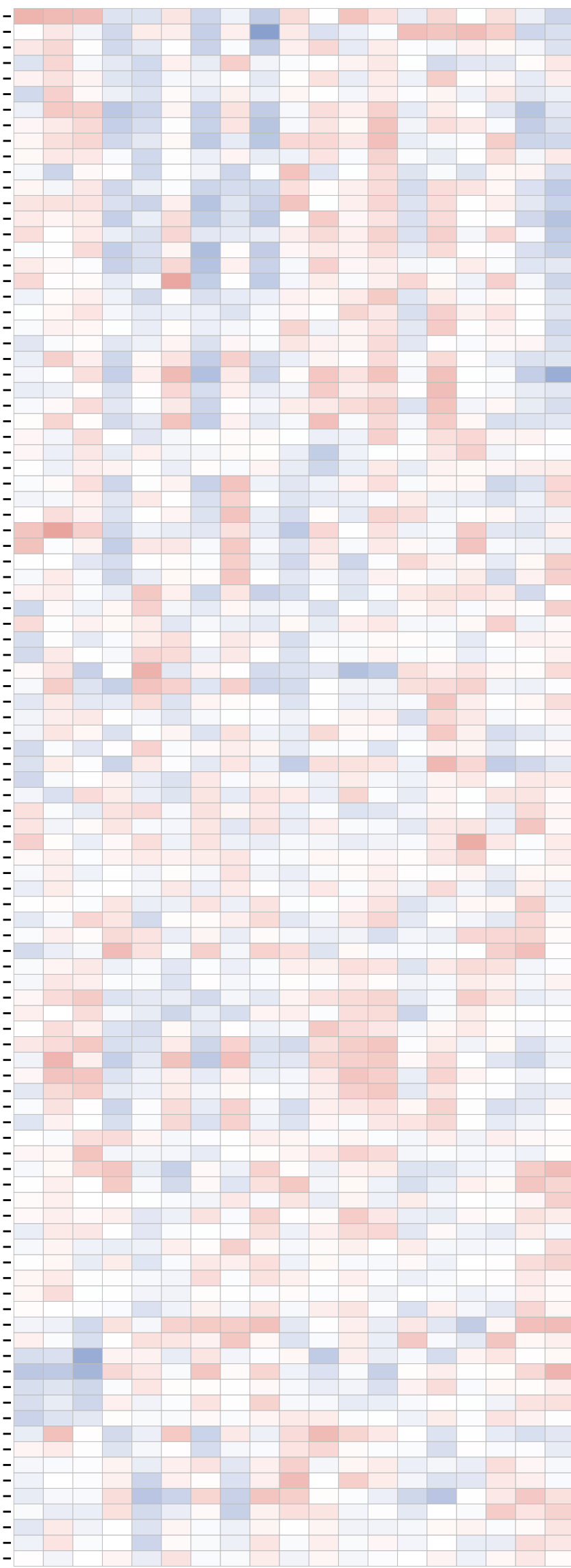
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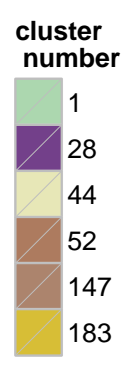
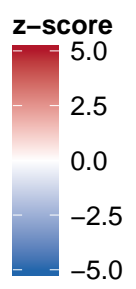
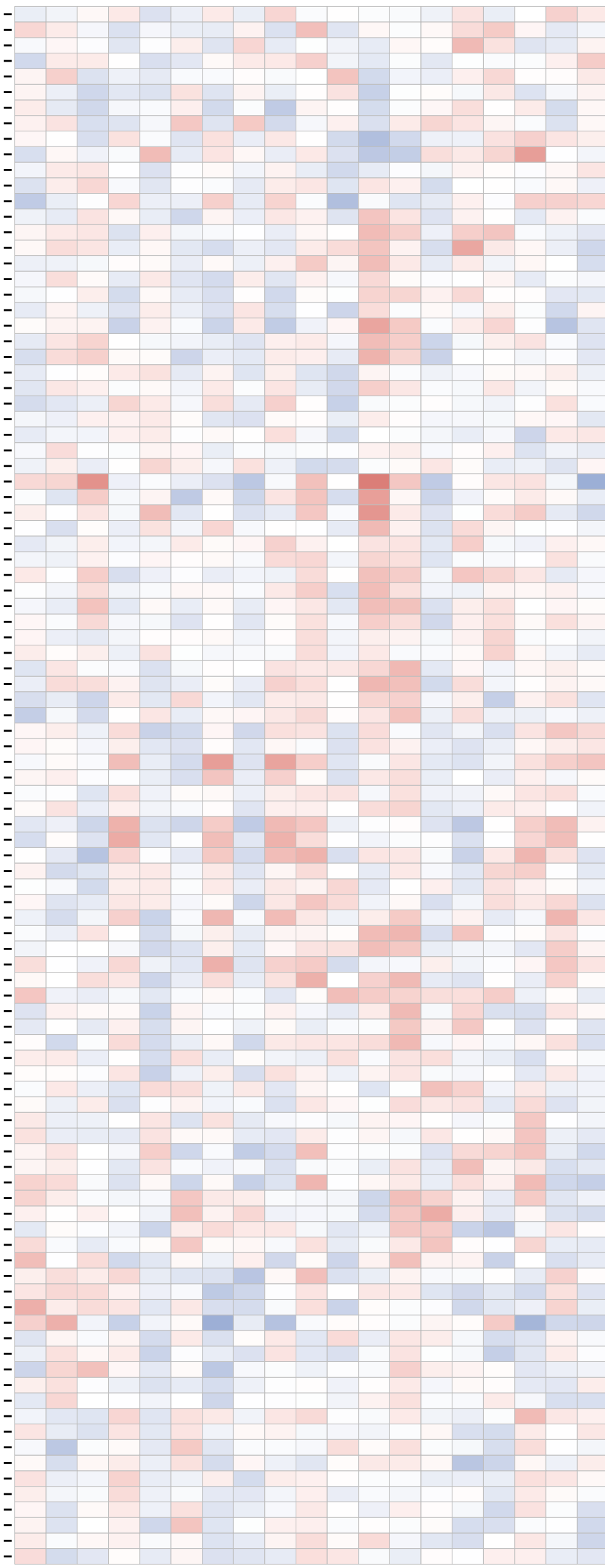
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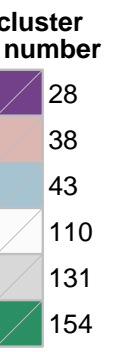
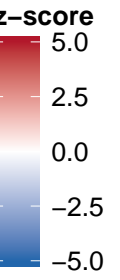
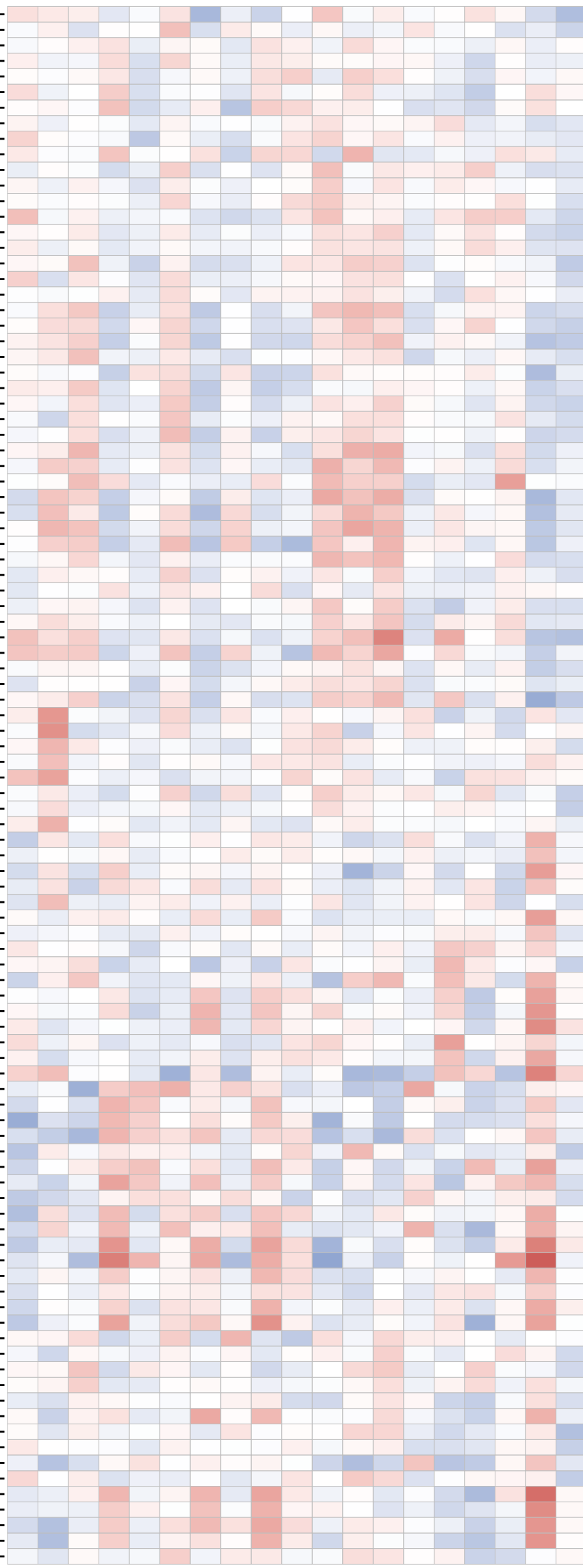
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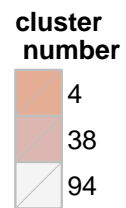
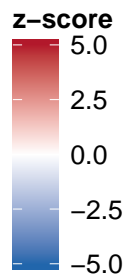
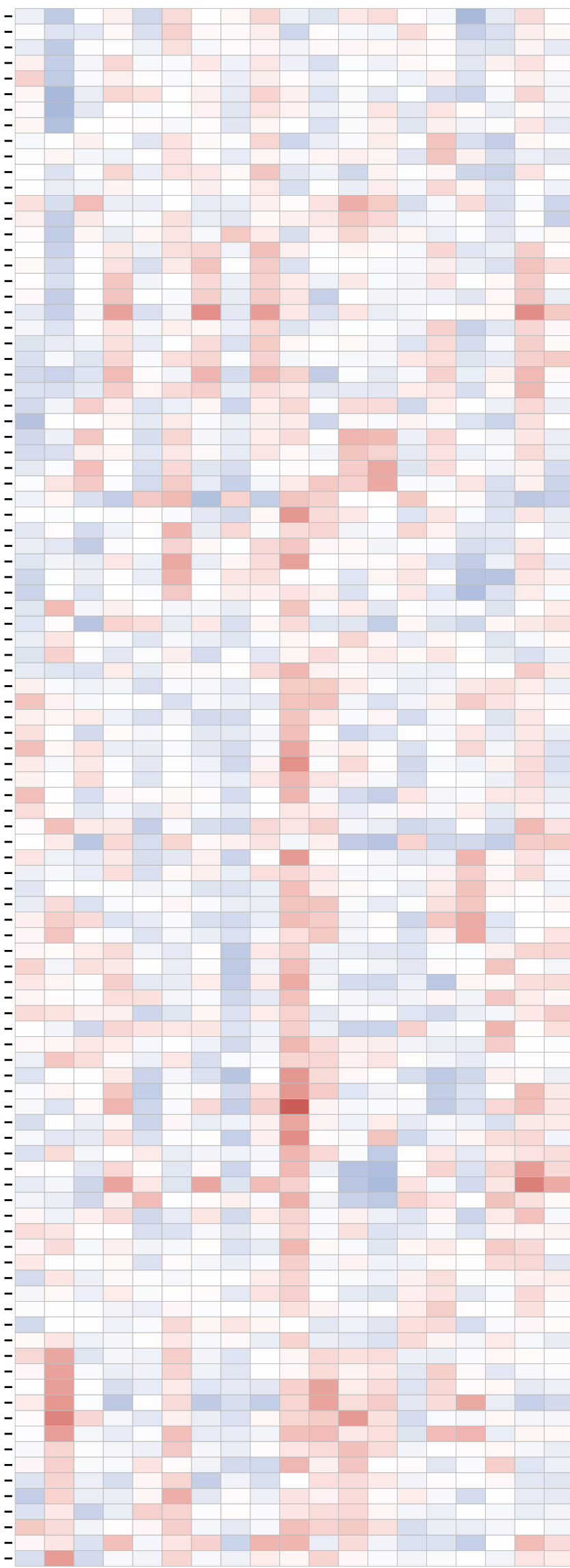
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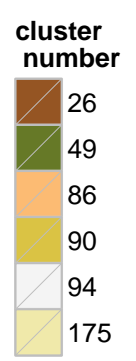
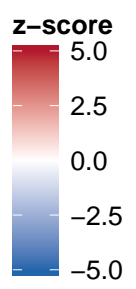
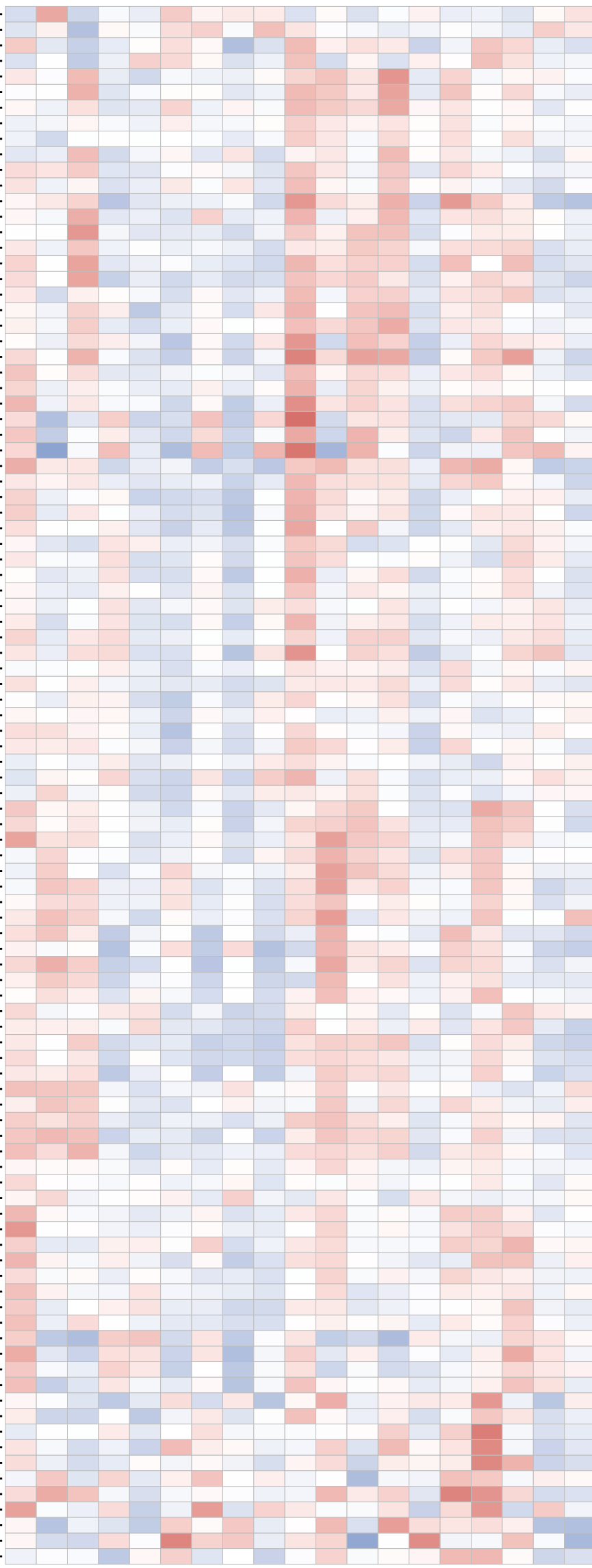
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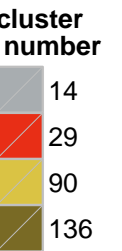
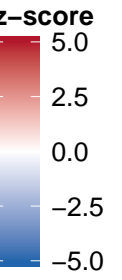
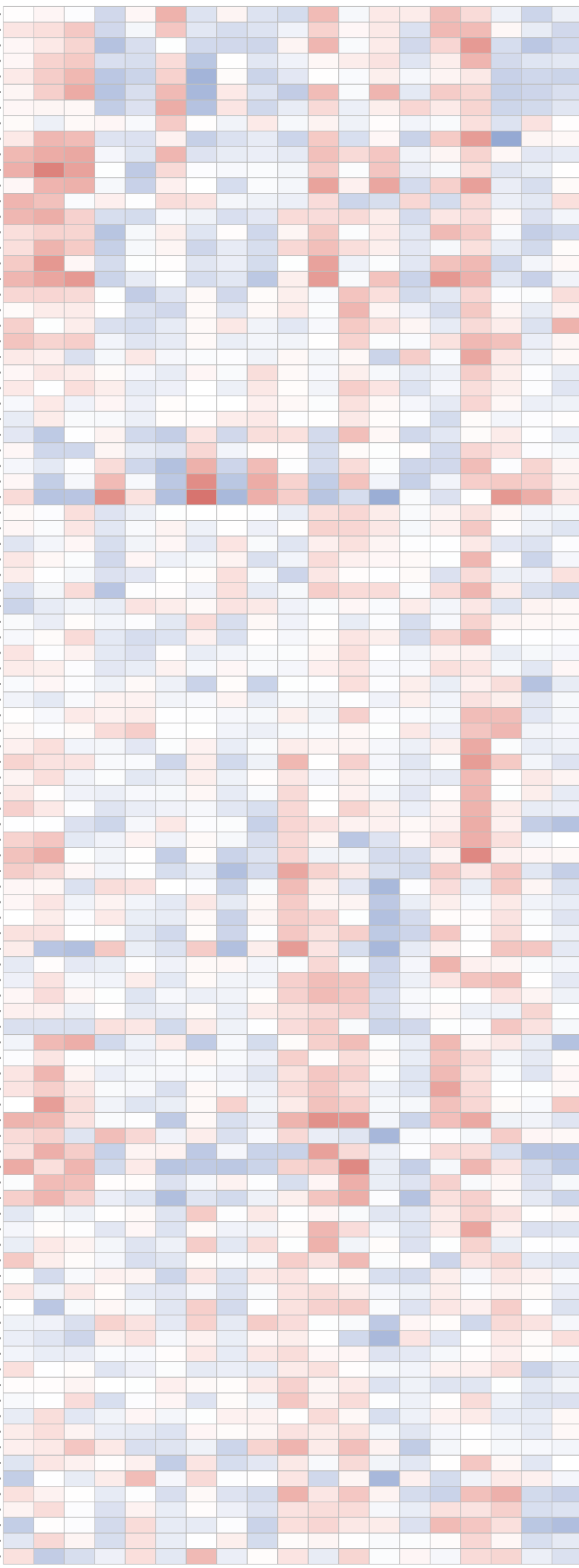
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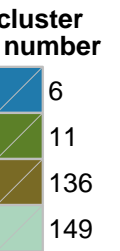
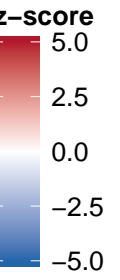
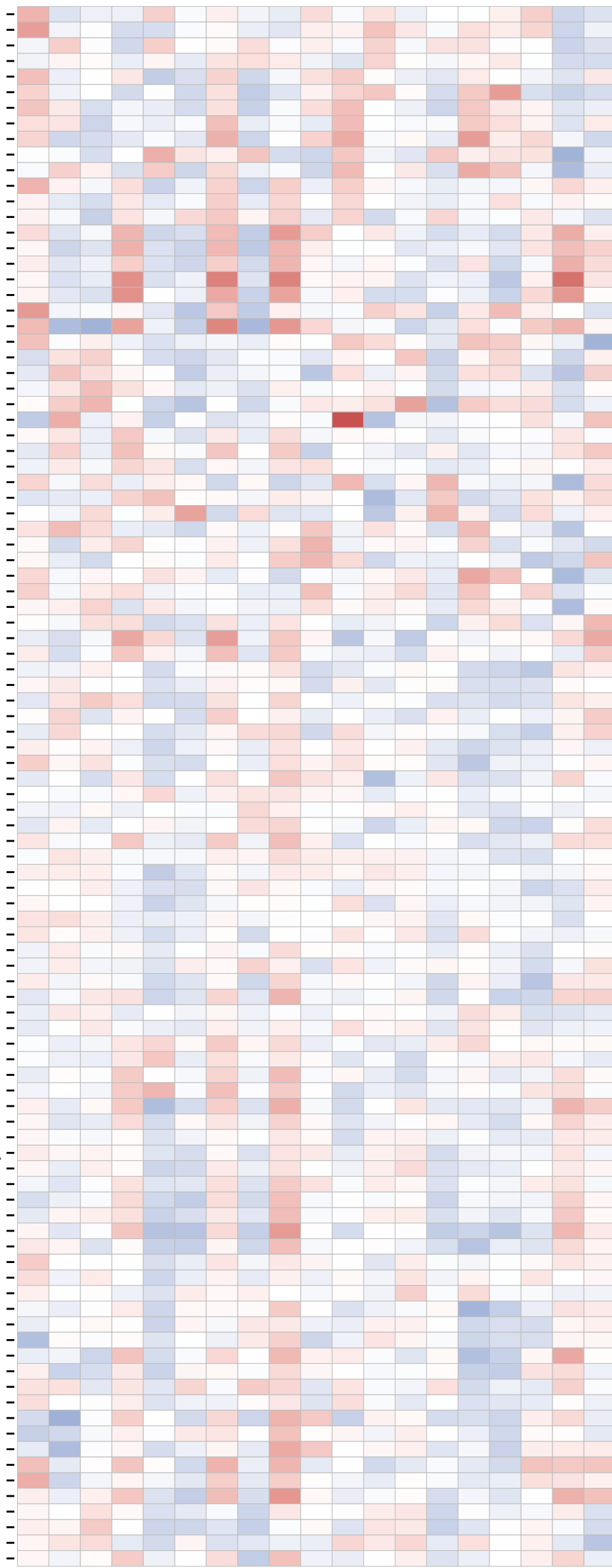
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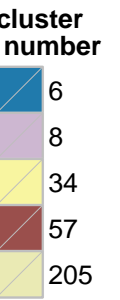
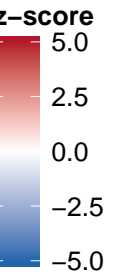
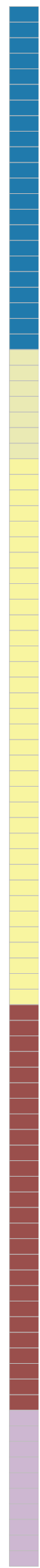
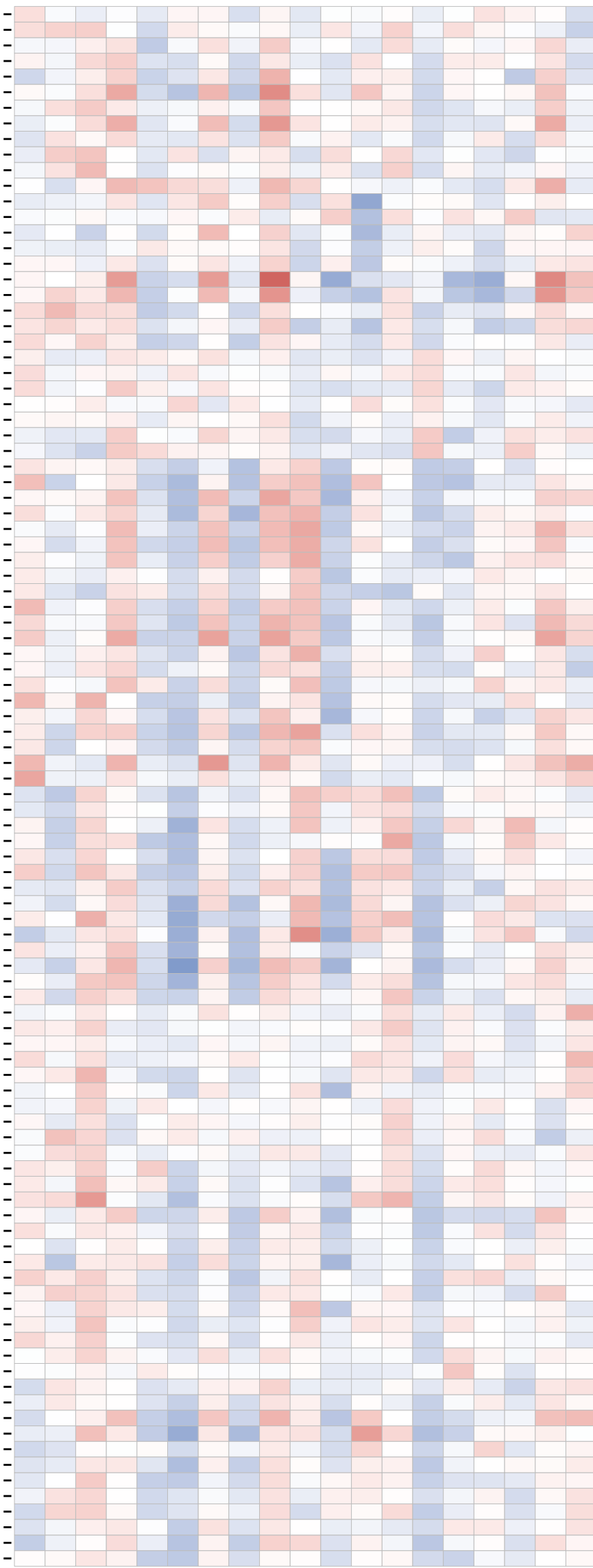
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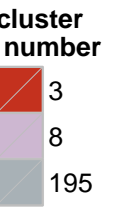
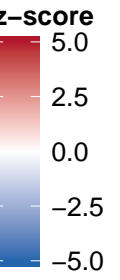
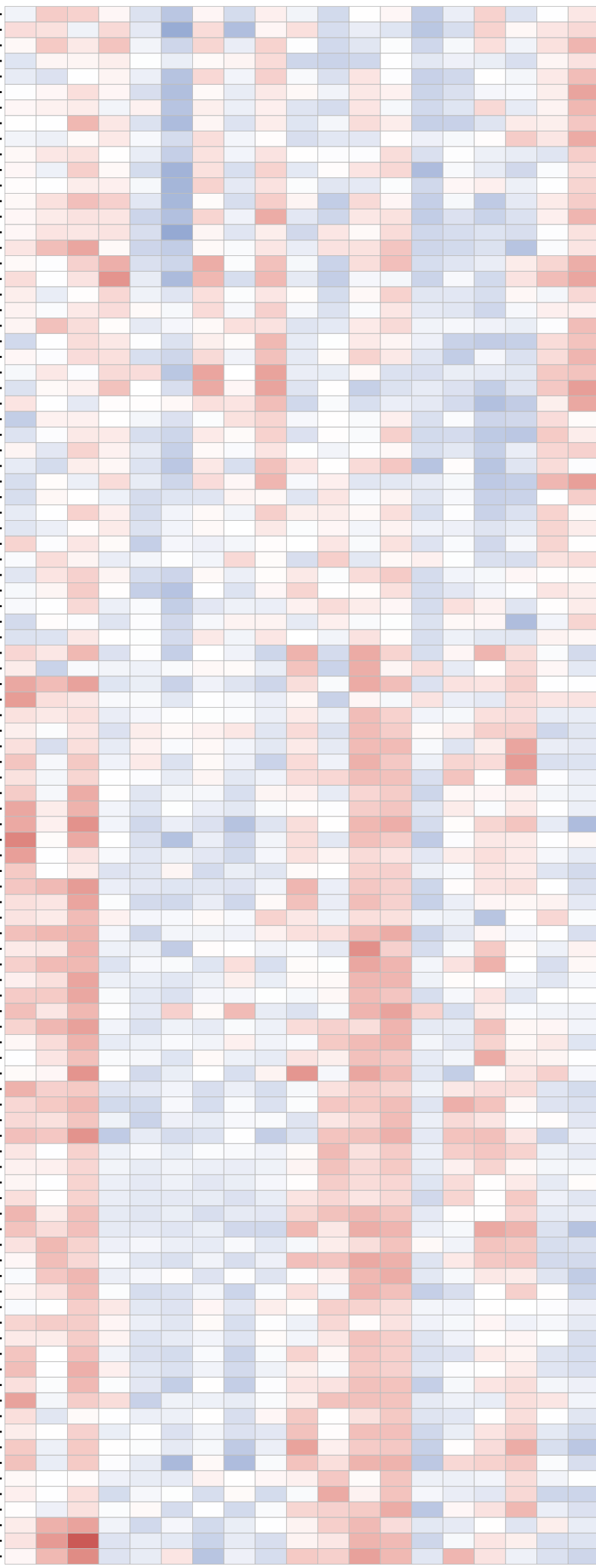
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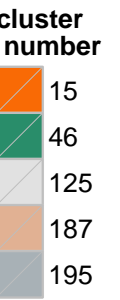
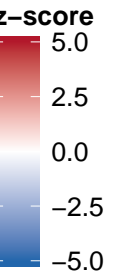
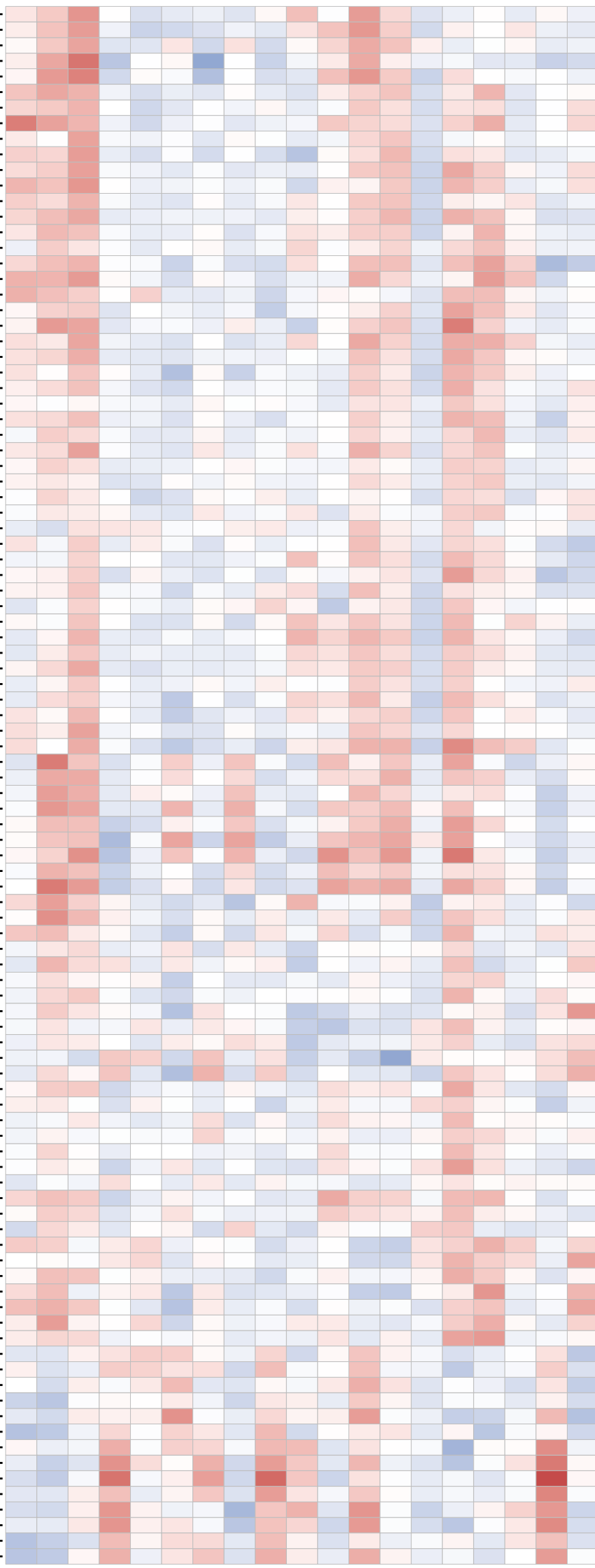
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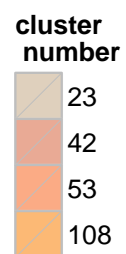
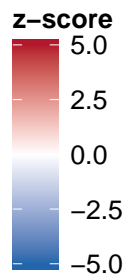
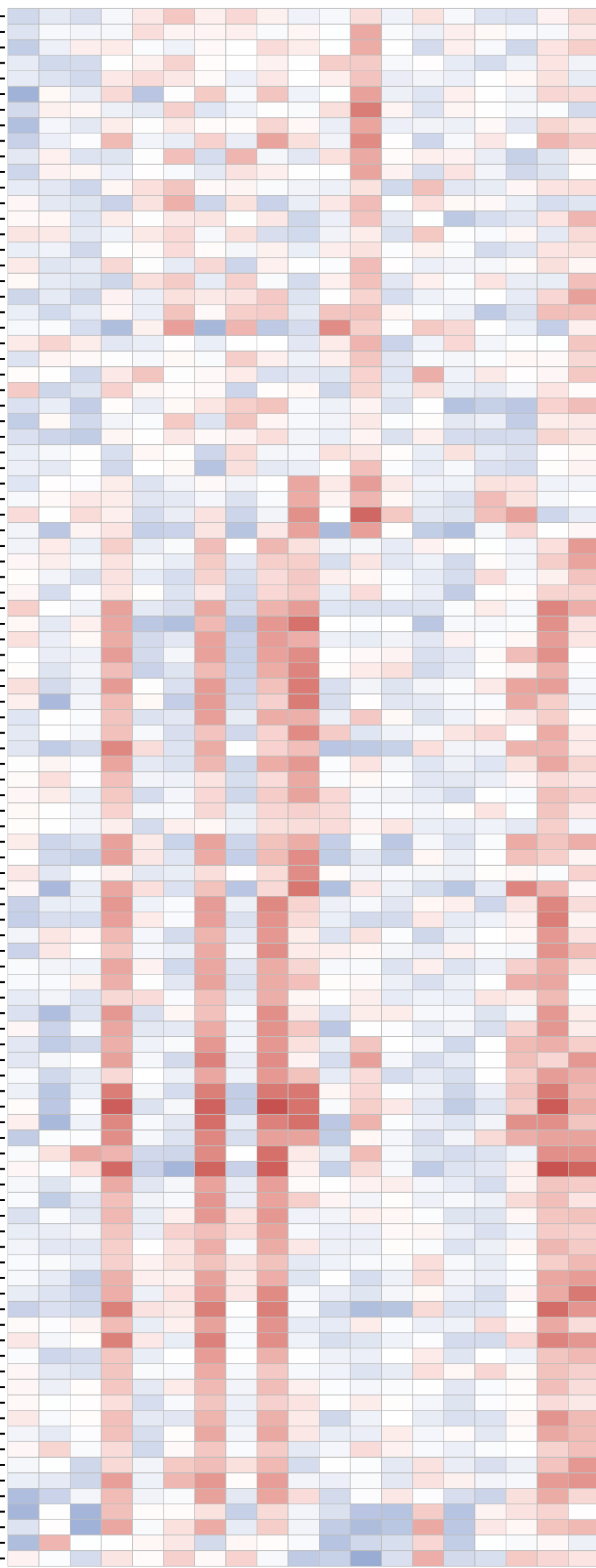
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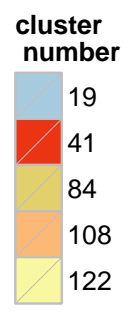
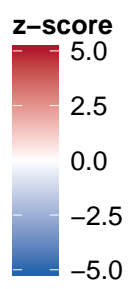
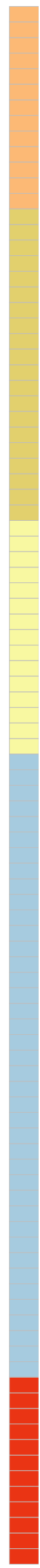
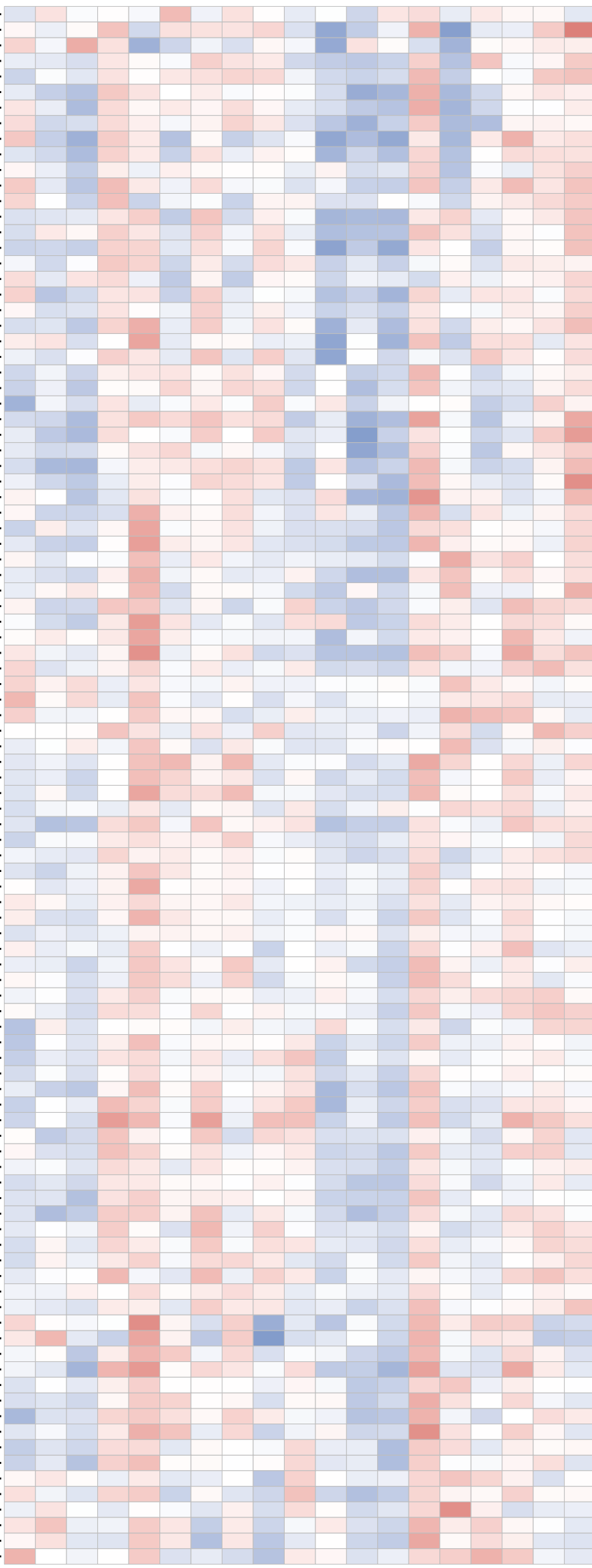
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 histidine -
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 tyrosine -
 cluster -

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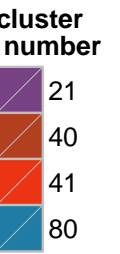
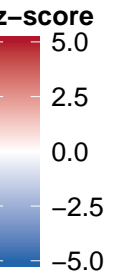
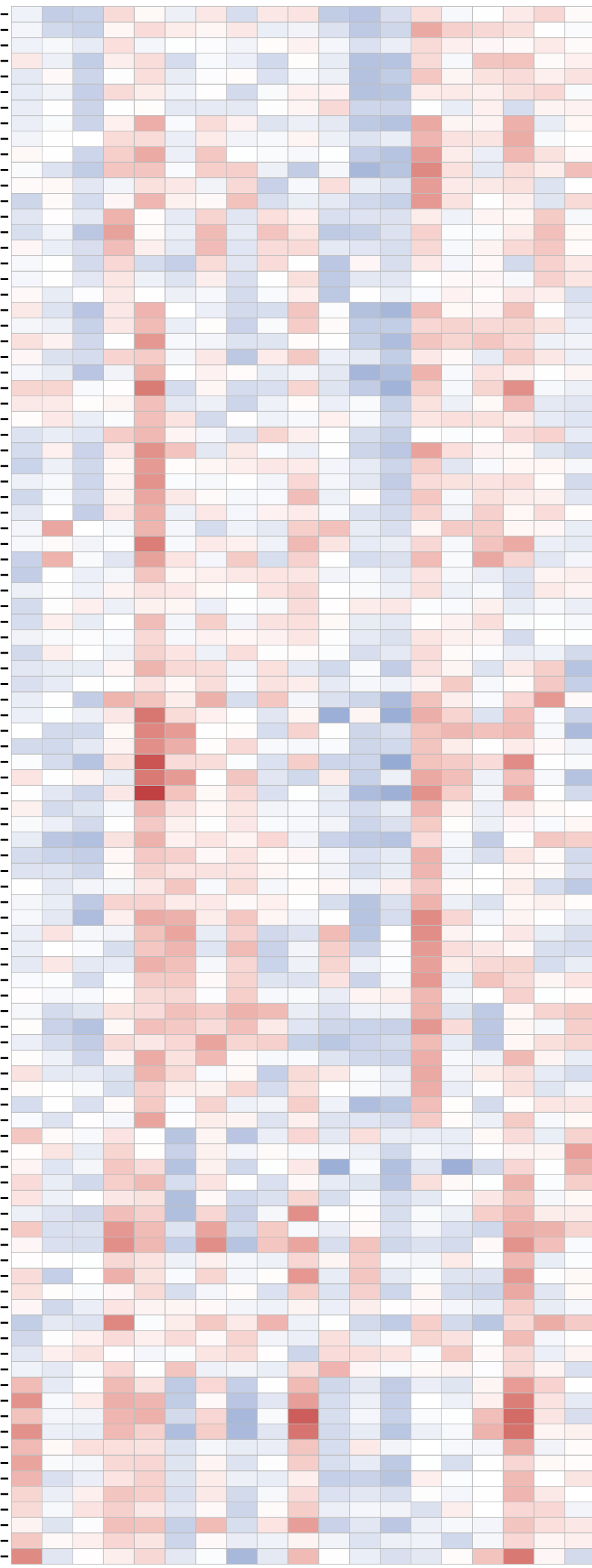
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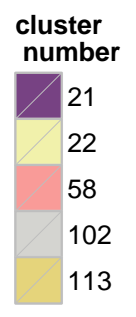
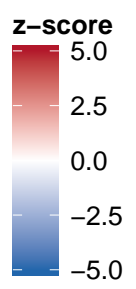
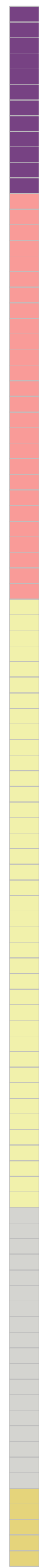
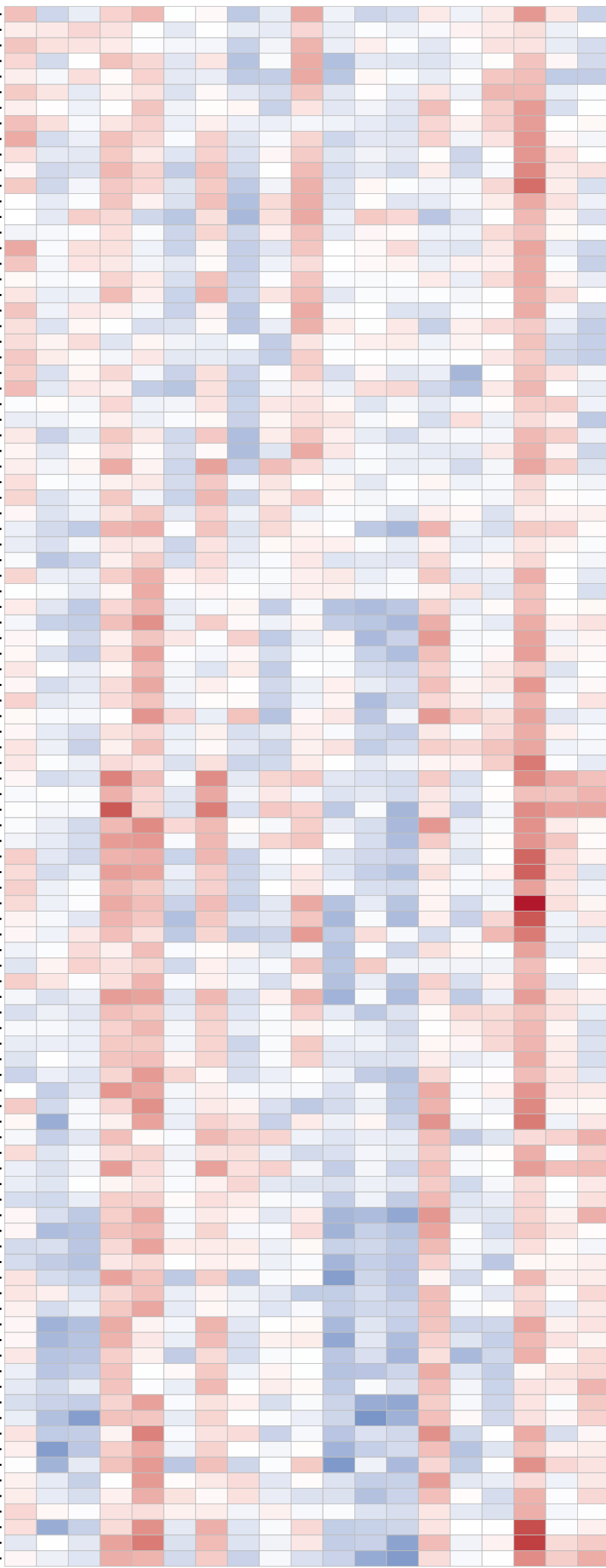
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 serine -
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 tryptophan -
 tyrosine -
 cluster -

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 NHP6B YBR089C-A
 RAS2 YNL098C
 HLR1 YDR528W
 CLB4 YLR210W
 SPO13 YHR014W
 PHD1 YKL043W
 PAN3 YKL025C
 SPR1 YOR190W
 YHR131C
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 YGR016W
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 ALK1 YGL021W
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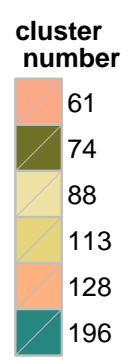
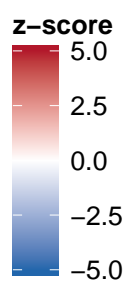
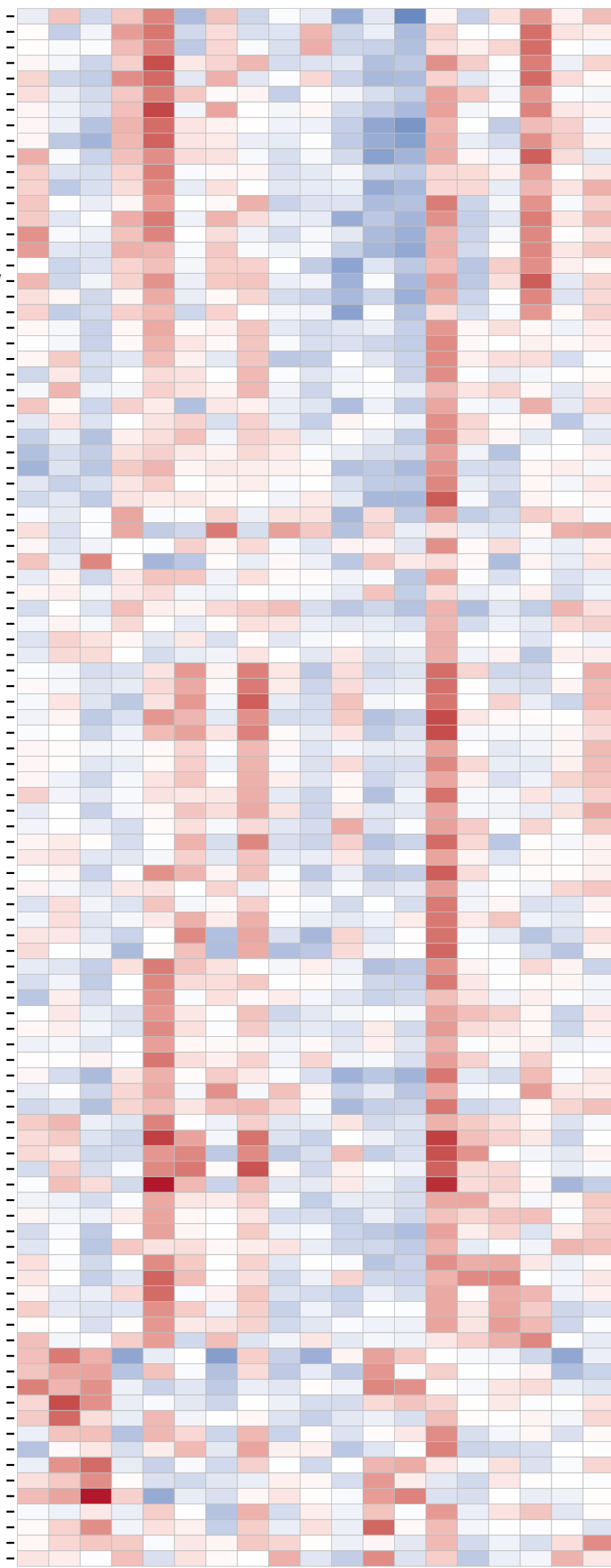
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 tryptophan -
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