

AP-2.HG1.2:TFAP2A/TFAP2B/TFAP2C/TFAP2D/TFAP2E  
HoiH23\_PIH23\_003808

UMI per 10k

15  
10  
5  
0



13

15

7

8

20

16

17

14

1

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3

5

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18

19

11

12

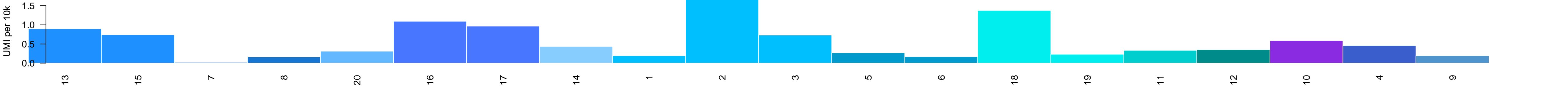
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4

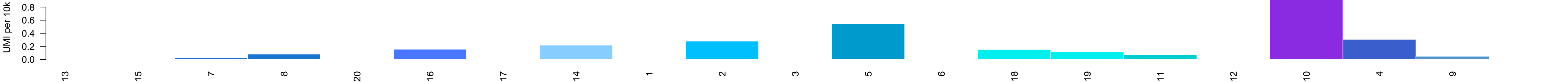
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ARID\_BRIGHT.HG1.6:ARID5A/ARID5B

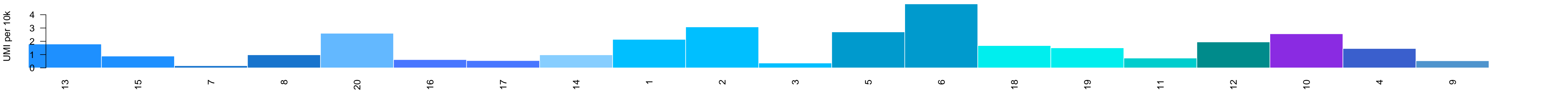
HoiH23\_PIH23\_003769



ARID\_BRIGHT.HG1.7:JARID2  
HoiH23\_PIH23\_003334

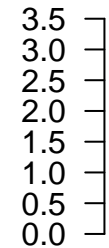


ARID\_BRIGHT.HG1.8:KDM5A/KDM5B/KDM5C/KDM5D  
HoiH23\_PIH23\_004228

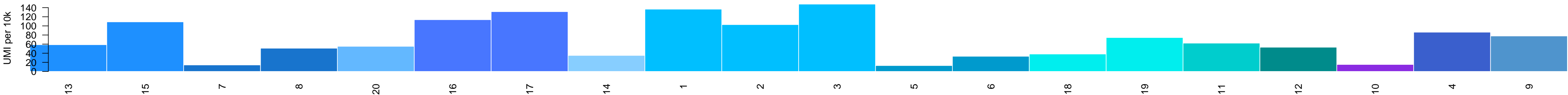


Brinker.HG1.3:like:POGK  
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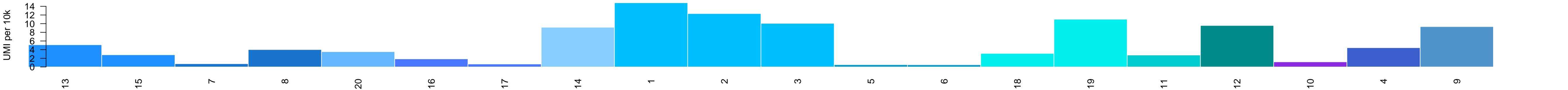
UMI per 10k



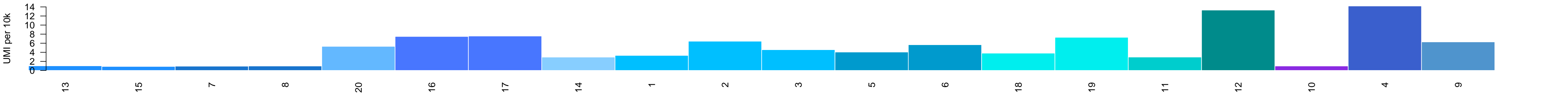
bZIP.HG1.12:FOS/FOSB/FOSL1/FOSL2  
HoiH23\_PIH23\_006937



bZIP.HG1.12:FOS/FOSB/FOSL1/FOSL2  
HoiH23\_PIH23\_006938

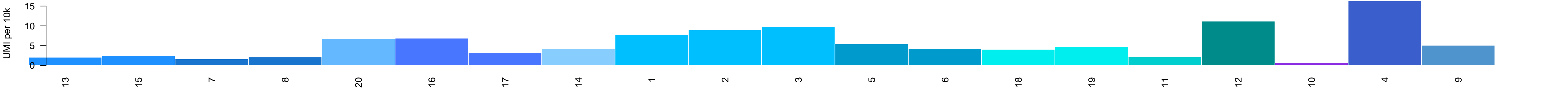


bZIP.HG1.3:MAF/MAFA/MAFB/MAFF/MAFG/MAFK/NRL  
HoiH23\_PIH23\_000708

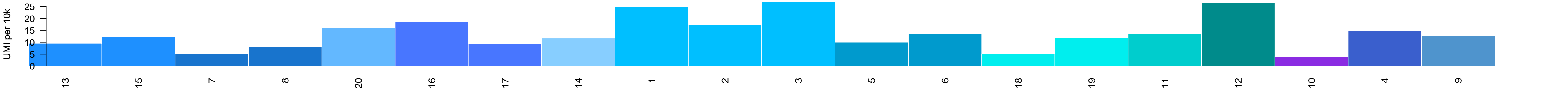




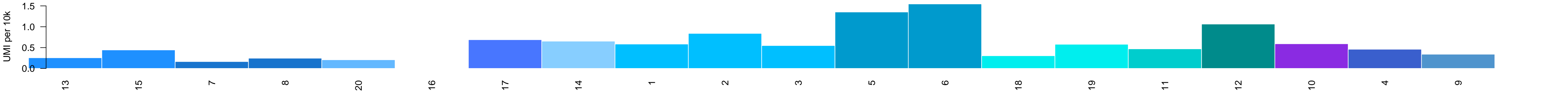
bZIP.HG1.3:MAF/MAFA/MAFB/MAFF/MAFG/MAFK/NRL  
HoiH23\_PIH23\_000709



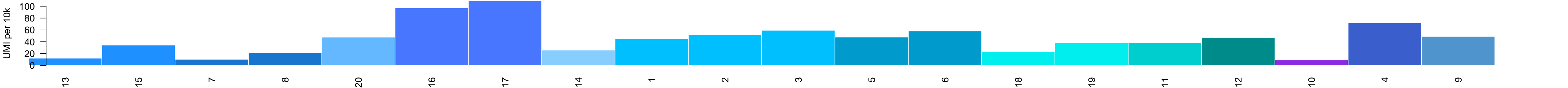
**bZIP.HG1.6:ATF4/ATF5**  
**HoiH23\_PIH23\_009547**



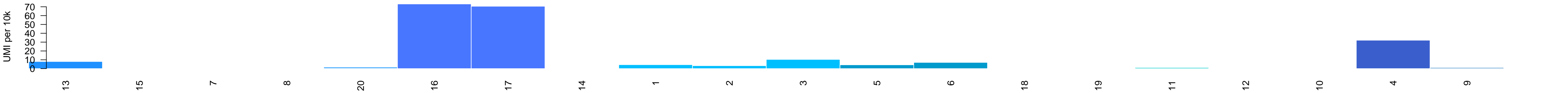
**bZIP.HG1.7:ATF2/ATF7/ATF7-NPFF/CREB5**  
**HoiH23\_PIH23\_005856**



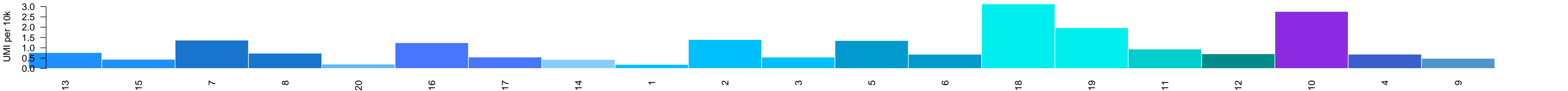
**bZIP.HG1.9:JUN/JUNB/JUND**  
**HoiH23\_PIH23\_002814**



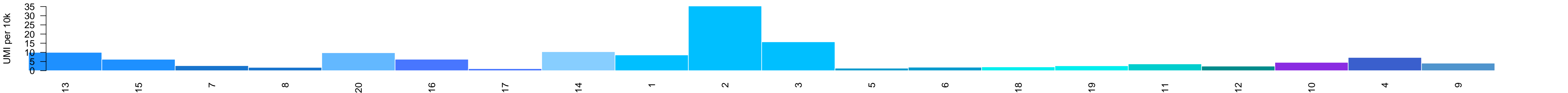
**bZIP.HG2.0:CREBL2**  
**HoiH23\_PIH23\_005117**



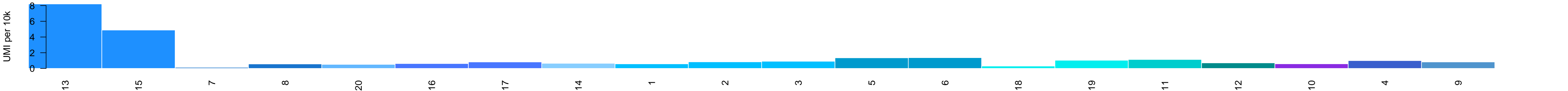
**bZIP.HG2.1:ATF6/ATF6B**  
**HoiH23\_PIH23\_008321**



**bZIP.HG2.5:XBP1**  
**HoiH23\_PIH23\_000692**

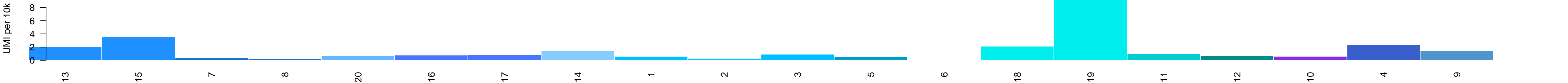


bZIP.HG2.9:CREB3L1/CREB3L2  
HoiH23\_PIH23\_002144

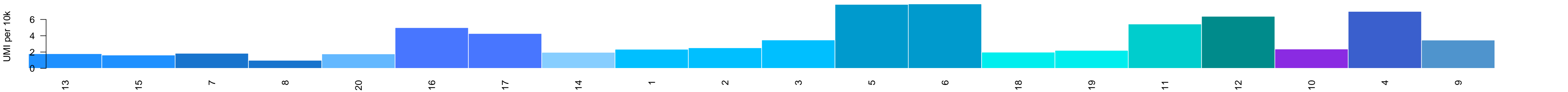




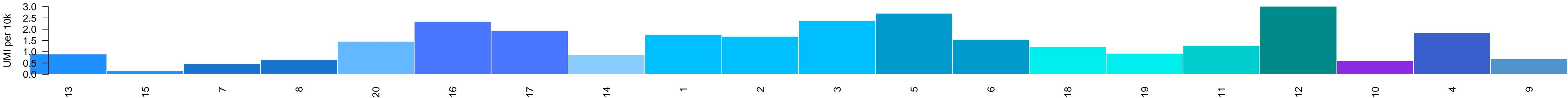
**bZIP.HG3.19:like:CEBPG**  
**HoiH23\_PIH23\_001405**



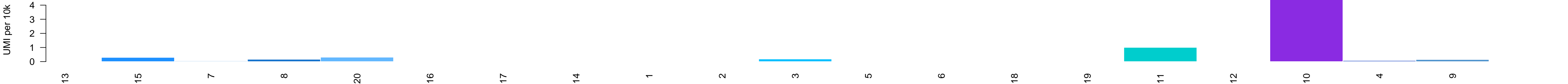
**bZIP.HG3.4:like:DBP/HLF/NFIL3/NFILZ/TEF**  
**HoiH23\_PIH23\_002891**



**bZIP.HG3.4:like:DBP/HLF/NFIL3/NFILZ/TEF**  
**HoiH23\_PIH23\_006478**



**bZIP.HG3.5:DBP/HLF/TEF**  
**HoiH23\_PIH23\_006175**



bZIP.HG3.8:like:NFIL3/NFILZ  
HoiH23\_PIH23\_001813

UMI per 10k

2.0  
1.5  
1.0  
0.5  
0.0



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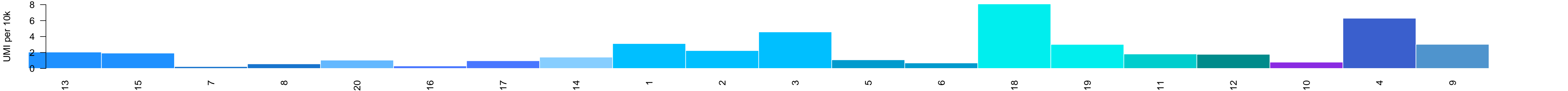
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9

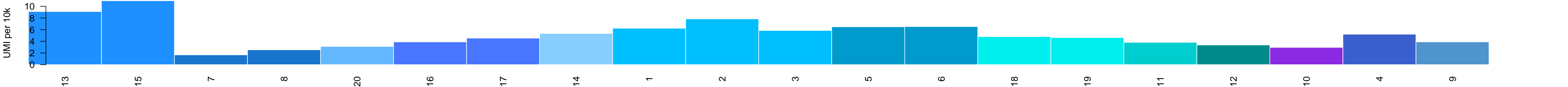
**bZIP.HG4.0:NA**  
**HoiH23\_PIH23\_004203**



CSD.HG1.4:CARHSP1/CSDC2  
HoiH23\_PIH23\_000175

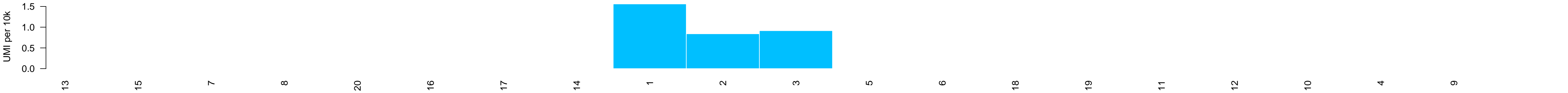


CSD.HG1.6:YBX1/YBX2/YBX3  
HoiH23\_PIH23\_006840





Doublesex\_DM.HG1.14:like:DMRTA1/DMRTA2  
HoiH23\_PIH23\_011933



Doublesex\_DM.HG1.15:like:DMRTA1/DMRTA2  
HoiH23\_PIH23\_009668

UMI per 10k

1.2  
1.0  
0.8  
0.6  
0.4  
0.2  
0.0

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15

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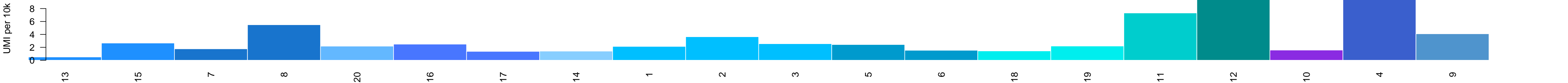
9



Ets.HG1.1:ETS1/ETS2/ETV2  
HoiH23\_PIH23\_009661



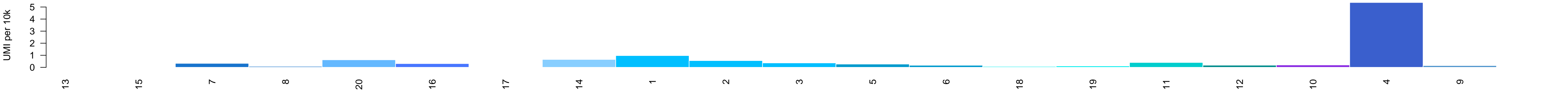
Ets.HG1.14:like:AC020909.1/EHF/ELF1/ELF2/ELF3/ELF4/ELF5/ETV6/ETV7/SPDEF/SPI1/SPIB/SPIC  
HoiH23\_PIH23\_005363



Ets.HG1.15:ETV6/ETV7  
HoiH23\_PIH23\_007262



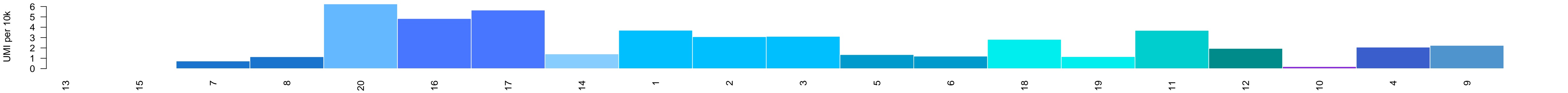
Ets.HG1.16:AC020909.1/EHF/ELF1/ELF2/ELF3/ELF4/ELF5/SPDEF/SPI1/SPIB/SPIC  
HoiH23\_PIH23\_005362



Ets.HG1.3:GABPA  
HoiH23\_PIH23\_009665

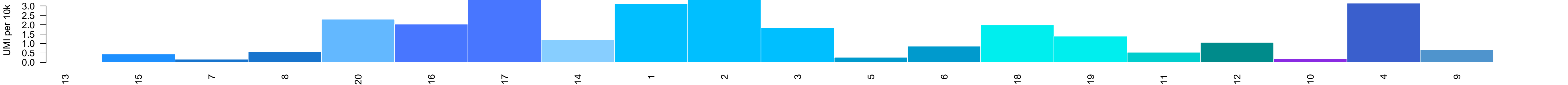


Ets.HG1.4:ERF/ERFL/ERG/ETV3/ETV3L/FEV/FLI1  
HoiH23\_PIH23\_009667





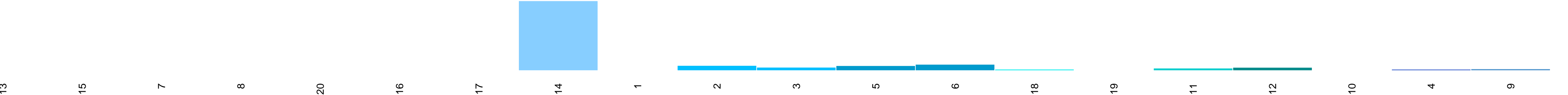
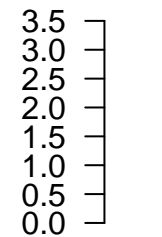
Ets.HG1.9:ETV1/ETV4/ETV5  
HoiH23\_PIH23\_001793



FOXB1/FOXB2/FOXC1/FOXC2/FOXD1/FOXD2/FOXD3/FOXD4/FOXD4L1/FOXD4L3/FOXD4L4/FOXD4L5/FOXD4L6/FOXE1/FOXE3/FOXF1/FOXF2/FOXG1/FOXH1/FOXI1/FOXI2/FOXI3/FOXJ1/FOXJ2/FOXJ3/FO XK1/FOXK2/FOXL1/FOXL2/FOXL3/FOXM1/FOXN1/FOXN2/FOXN3/FOXN4/FOXO1/FOXO3/FOXO3B/FOXO4/FOX

HoiH23\_PIH23\_007770

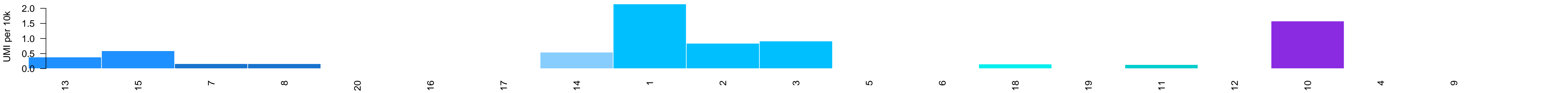
UMI per 10k



Forkhead.HG1.14:FOXA1/FOXA2/FOXA3/FOXB1/FOXB2/FOXD1/FOXD2/FOXD3/FOXD4/FOXD4L1/FOXD4L3/FOXD4L4/FOXD4L5/FOXD4L6/FOXE1/FOXE3  
HoiH23\_PIH23\_000554



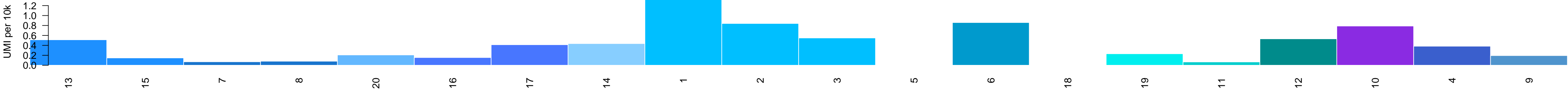
Forkhead.HG1.14:FOXA1/FOXA2/FOXA3/FOXB1/FOXB2/FOXD1/FOXD2/FOXD3/FOXD4/FOXD4L1/FOXD4L3/FOXD4L4/FOXD4L5/FOXD4L6/FOXE1/FOXE3  
HoiH23\_PIH23\_003776



Forkhead.HG1.14:FOXA1/FOXA2/FOXA3/FOXB1/FOXB2/FOXD1/FOXD2/FOXD3/FOXD4/FOXD4L1/FOXD4L3/FOXD4L4/FOXD4L5/FOXD4L6/FOXE1/FOXE3  
HoiH23\_PIH23\_005233



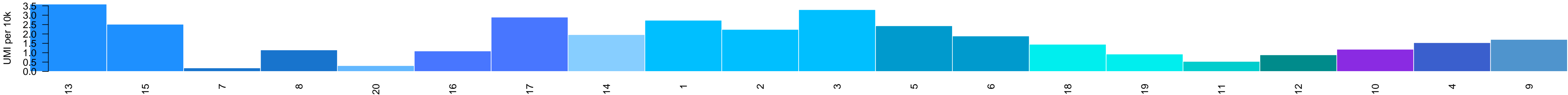
Forkhead.HG1.21:FOXQ1  
HoiH23\_PIH23\_009380



Forkhead.HG1.24:FOXN1/FOXN4/FOXR1/FOXR2  
HoiH23\_PIH23\_009830

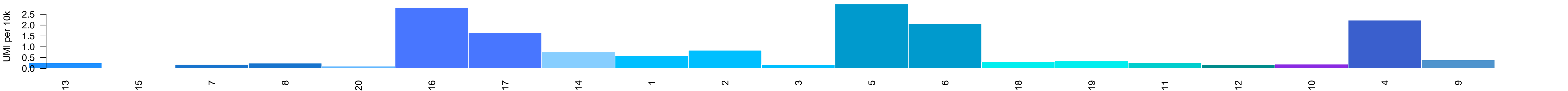


Forkhead.HG1.30:FOXN2/FOXN3  
HoiH23\_PIH23\_002310





Forkhead.HG1.31:AC097634.4/FOXP1/FOXP2/FOXP3/FOXP4  
HoiH23\_PIH23\_002591



Forkhead.HG1.5:FOXJ1  
HoiH23\_PIH23\_000096

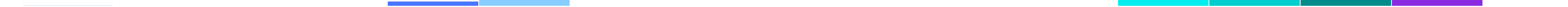


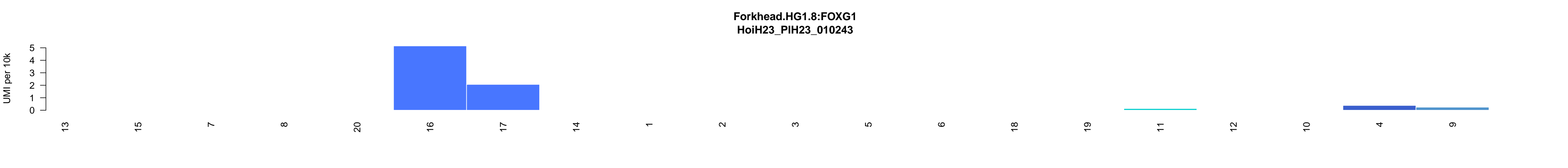
Forkhead.HG1.8:FOXG1  
HoiH23\_PIH23\_004570

UMI per 10k

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1.5  
1.0  
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0.0

13 15 7 8 20 16 17 14 1 2 3 5 6 18 19 11 12 10 4 9



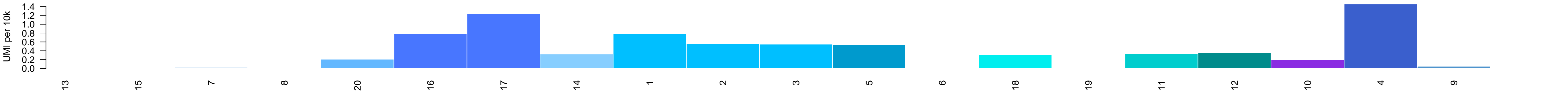


**GATA.HG1.14:GATA4/GATA5/GATA6**  
**HoiH23\_PIH23\_000356**



HLH.HG1.0:ARNT/ARNT2/ARNTL/ARNTL2

HoiH23\_PIH23\_000541



HLH.HG1.11:BHLHE40/BHLHE41/HELT  
HoiH23\_PIH23\_005930

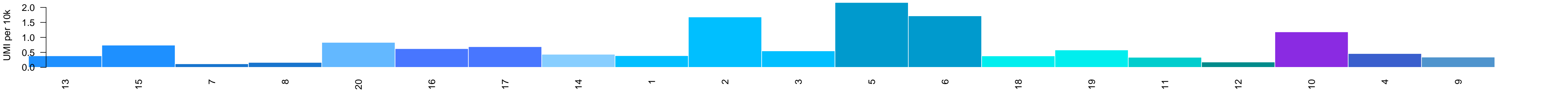


HLH.HG1.12:HEY1/HEY2/HEYL  
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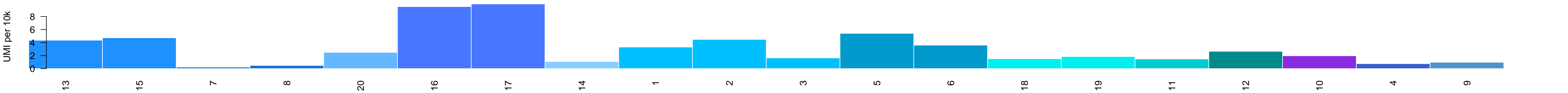




HLH.HG1.23:USF1/USF2  
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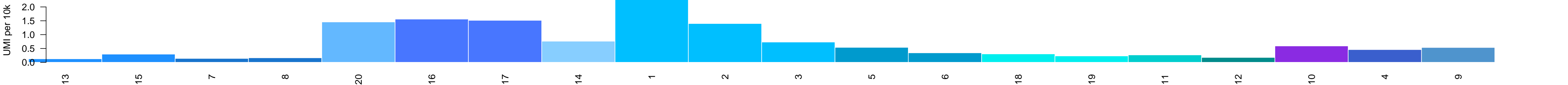
HLH.HG1.36:MXD1/MXD3/MXD4/MXI1  
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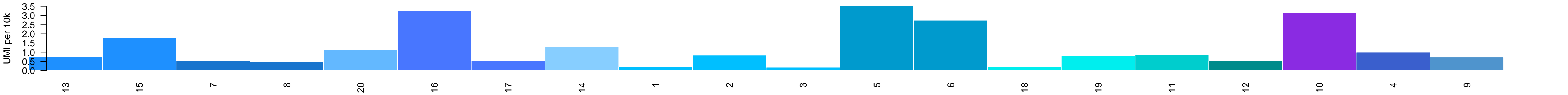
HLH.HG1.45:AC019117.3/AHR/AHRR  
HoiH23\_PIH23\_000286



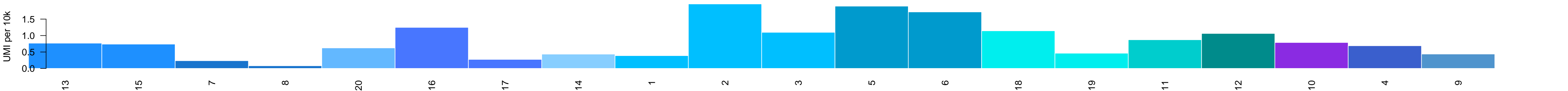
HLH.HG1.6:SREBF1/SREBF2  
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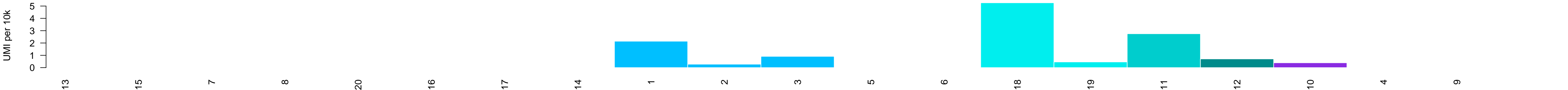
HLH.HG2.20:TCF3/TCF4/TCF12  
HoiH23\_PIH23\_009657



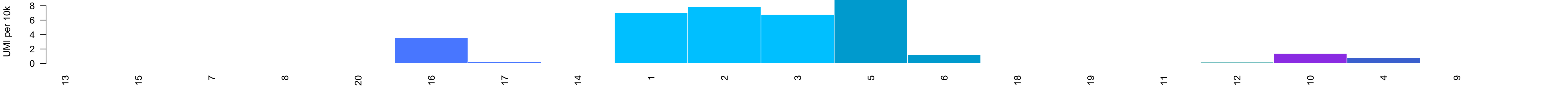
HLH.HG2.26:like:ATOH1/ATOH7/ATOH8/BHLHA9/BHLHA15/BHLHE22/BHLHE23/NEUROD1/NEUROD2/NEUROD4/NEUROD6/NEUROG1/NEUROG2/NEUROG3/OLIG1/OLIG2/OLIG3  
HoiH23\_PIH23\_005488



HLH.HG2.31:like:ASCL1/ASCL2/ASCL3/ASCL4/ASCL5  
HoiH23\_PIH23\_000958



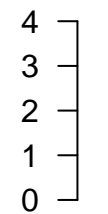
HLH.HG2.31:like:ASCL1/ASCL2/ASCL3/ASCL4/ASCL5  
HoiH23\_PIH23\_000959





HLH.HG2.33:PTF1A  
HoiH23\_PIH23\_002456

UMI per 10k

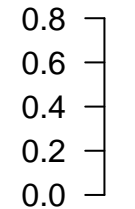


HLH.HG2.35:like:ASCL3/ASCL4/ASCL5  
HoiH23\_PIH23\_000960



HLH.HG2.36:ASCL3/ASCL4/ASCL5  
HoiH23\_PIH23\_000957

UMI per 10k



HLH.HG2.38:FERD3L  
HoiH23\_PIH23\_010483



HLH.HG2.57:like:ATOH8/BHLHA9/NEUROD1/NEUROD2/NEUROD4/NEUROD6  
HoiH23\_PIH23\_000401



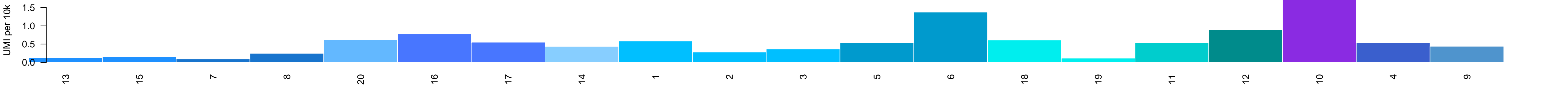
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UMI per 10k

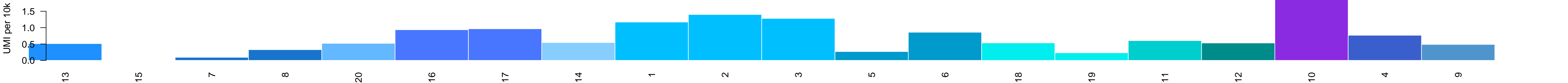
1.5  
1.0  
0.5  
0.0



HMGbox\_Sox.HG1.12:like:SMARCE1  
HoiH23\_PIH23\_002896

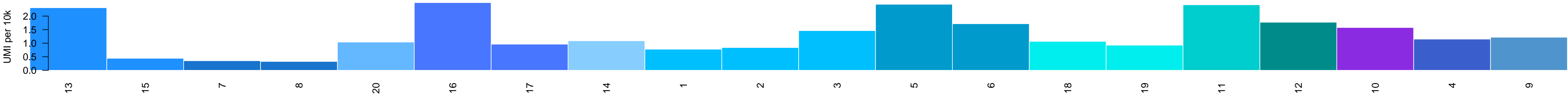


HMGbox\_Sox.HG1.13:SMARCE1  
HoiH23\_PIH23\_001010

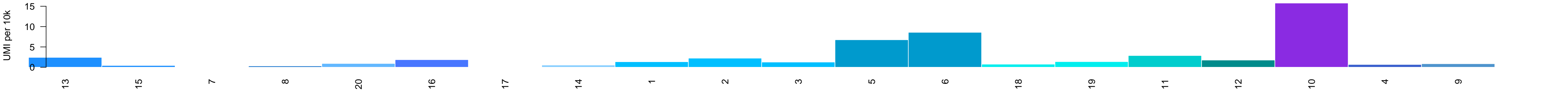




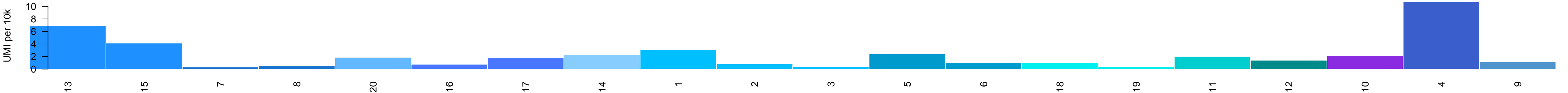
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HoiH23\_PIH23\_007590



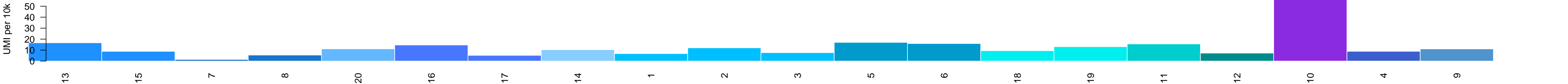
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HoiH23\_PIH23\_006133



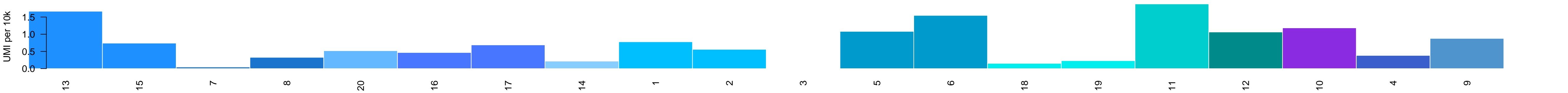
HMGbox\_Sox.HG1.23:AC105001.2/SOX4/SOX7/SOX8/SOX9/SOX10/SOX11/SOX12/SOX17/SOX18  
HoiH23\_PIH23\_010696



HMGbox\_Sox.HG1.39:like:HMGB1/HMGB2/HMGB3/HMGB4  
HoiH23\_PIH23\_000249



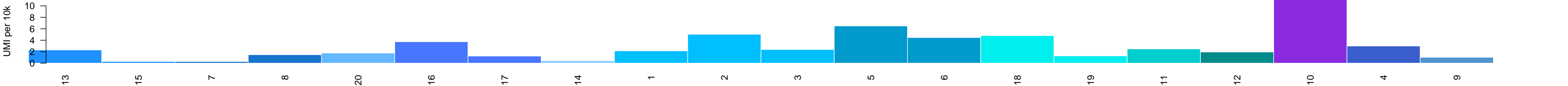
HMGbox\_Sox.HG1.46:SOX14/SOX21  
HoiH23\_PIH23\_002366



HMGbox\_Sox.HG1.47:like:SOX1/SOX2/SOX3  
HoiH23\_PIH23\_007440



HMGbox\_Sox.HG1.48:SOX1/SOX2/SOX3  
HoiH23\_PIH23\_011060



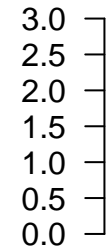
Homeodomains.HG1.27:DLX1/DLX2/DLX3/DLX4/DLX5/DLX6  
HoiH23\_PIH23\_008099



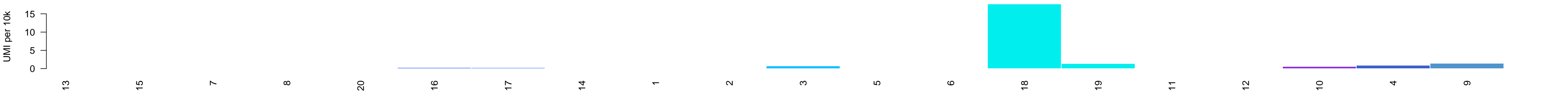


Homeodomains.HG1.29:MSX1/MSX2  
HoiH23\_PIH23\_010045

UMI per 10k



Homeodomains.HG1.34:HMX1/HMX2/HMX3  
HoiH23\_PIH23\_010989



Homeodomains.HG1.39:NKX2-1/NKX2-2/NKX2-3/NKX2-4/NKX2-5/NKX2-6/NKX2-8  
HoiH23\_PIH23\_010042



Homeodomains.HG1.39:NKX2-1/NKX2-2/NKX2-3/NKX2-4/NKX2-5/NKX2-6/NKX2-8  
HoiH23\_PIH23\_010043

UMI per 10k

2.5  
2.0  
1.5  
1.0  
0.5  
0.0

13

15

7

8

20

16

17

14

1

2

3

5

6

18

19

11

12

10

4

9



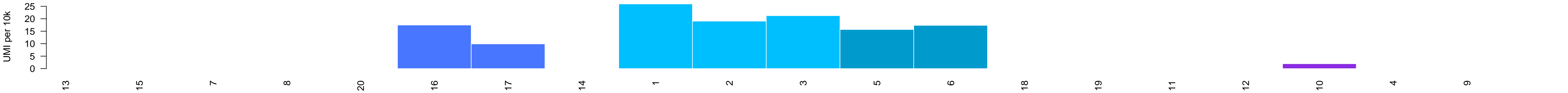
Homeodomains.HG1.39:NKX2-1/NKX2-2/NKX2-3/NKX2-4/NKX2-5/NKX2-6/NKX2-8  
HoiH23\_PIH23\_010044



Homeodomains.HG1.4:DBX1/DBX2/HLX  
HoiH23\_PIH23\_004726



Homeodomains.HG1.45:MNX1  
HoiH23\_PIH23\_004506



Homeodomains.HG1.59:like:GSX1/GSX2  
HoiH23\_PIH23\_010988

UMI per 10k

4  
3  
2  
1  
0

13

15

7

8

20

16

17

14

1

2

3

5

6

18

19

11

12

10

4

9





Homeodomains.HG1.60:GSX1/GSX2  
HoiH23\_PIH23\_009446

UMI per 10k

30  
25  
20  
15  
10  
5  
0

13 15 7 8 20 16 17 14 1 2 3 5 6 18 19 11 12 10 4 9



Homeodomains.HG2.25:like:SHOX/SHOX2  
HoiH23\_PIH23\_000637



Homeodomains.HG2.31:like:AC025287.4/CPHXL/ESX1/ISX/NOBOX/PROP1/SEBOX/VSX1/VSX2  
HoiH23\_PIH23\_002938



Homeodomains.HG2.34:OTP/PITX1/PITX2/PITX3/RAX/RAX2  
HoiH23\_PIH23\_004900



Homeodomains.HG2.34:OTP/PITX1/PITX2/PITX3/RAX/RAX2  
HoiH23\_PIH23\_007654



Homeodomains.HG2.62:like:ARX  
HoiH23\_PIH23\_010816

UMI per 10k

4  
3  
2  
1  
0

13

15

7

8

20

16

17

14

1

2

3

5

6

18

19

11

12

10

4

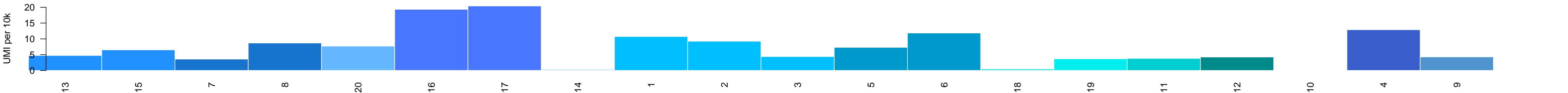
9



Homeodomains.HG2.63:ARX  
HoiH23\_PIH23\_010820



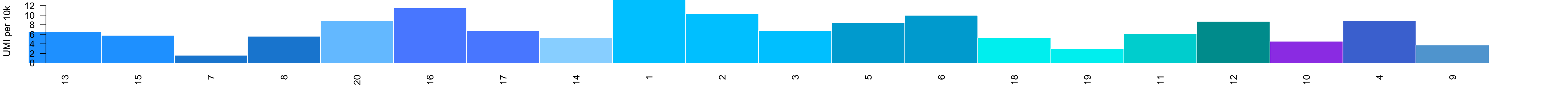
Homeodomains.HG2.9:PAX2/PAX4/PAX5/PAX6/PAX8  
HoiH23\_PIH23\_005936





Homeodomains.HG4.1:IRX1/IRX2/IRX3/IRX4/IRX5/IRX6/MKX

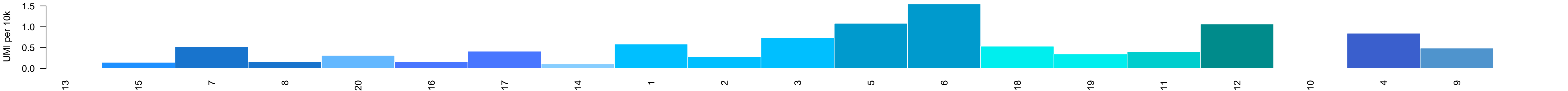
HoiH23\_PIH23\_001639

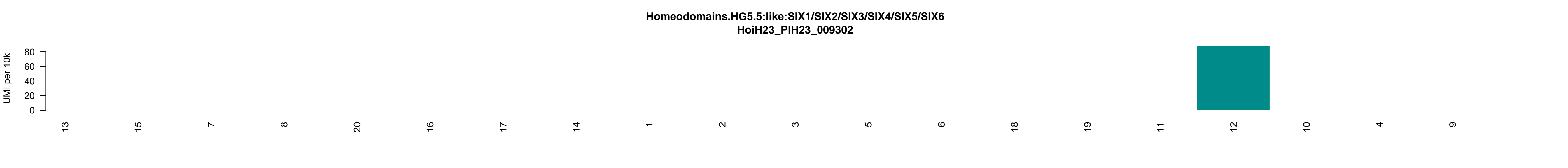


Homeodomains.HG4.19:like:MEIS1/MEIS2/MEIS3  
HoiH23\_PIH23\_009723



Homeodomains.HG4.6:PBX1/PBX2/PBX3/PBX4  
HoiH23\_PIH23\_008320

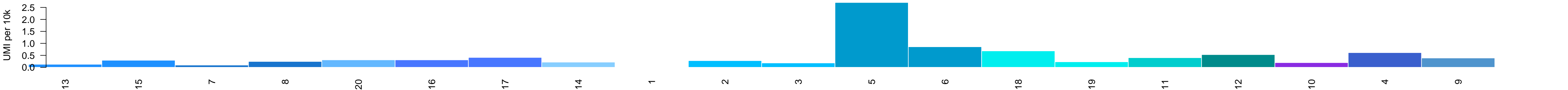




Homeodomains.HG5.7:SIX3/SIX6  
HoiH23\_PIH23\_009303



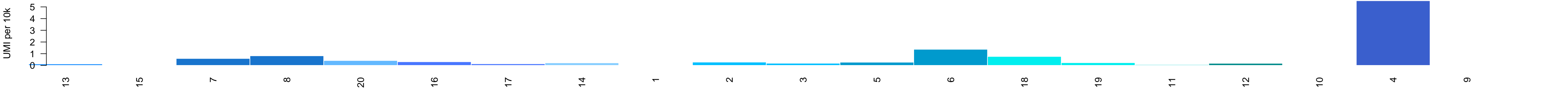
Homeodomains.HG6.11:POU3F1/POU3F2/POU3F3/POU3F4  
HoiH23\_PIH23\_002679



Homeodomains.HG6.7:POU4F1/POU4F2/POU4F3  
HoiH23\_PIH23\_003125

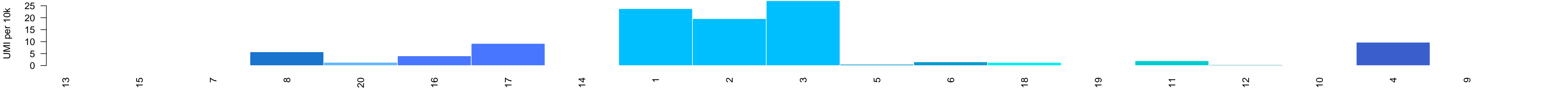


Homeodomains.Unclassified  
HoiH23\_PIH23\_006561

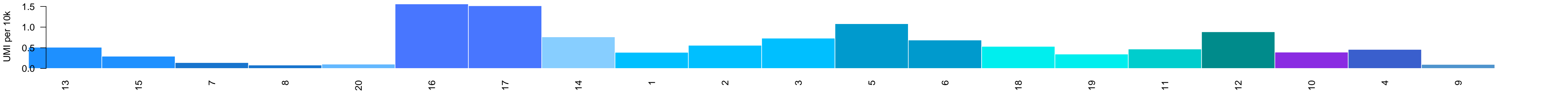




Homeodomains.Unclassified  
HoiH23\_PIH23\_008308



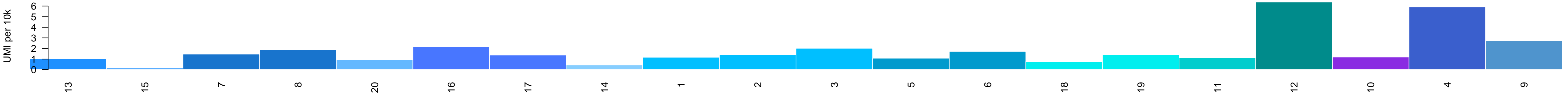
HSF.HG1.1:HSF1/HSF2/HSF4  
HoiH23\_PIH23\_001744



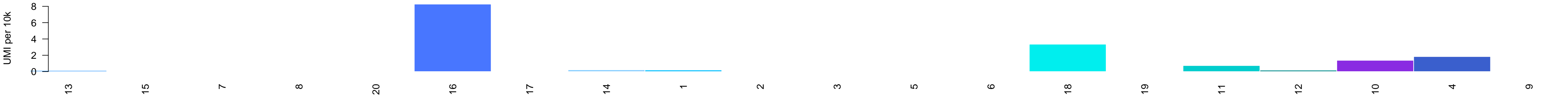
IRF.HG1.7:IRF1/IRF2  
HoiH23\_PIH23\_008602



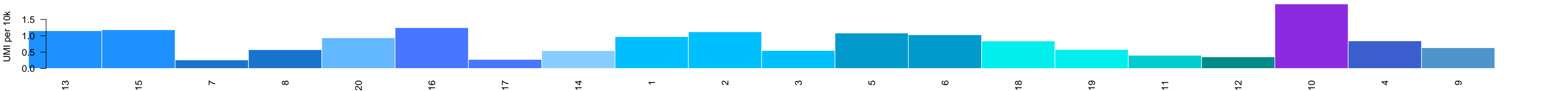
IRF.HG1.7:IRF1/IRF2  
HoiH23\_PIH23\_010547



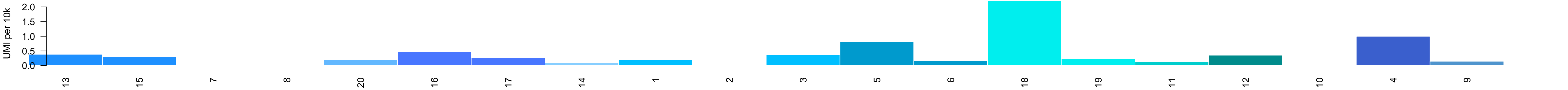
LAG1\_CSL.HG1.0:RBPJ/RBPJL  
HoiH23\_PIH23\_001259



MADS-box\_SRF.HG1.1:BORCS8-MEF2B/MEF2A/MEF2B/MEF2C/MEF2D  
HoiH23\_PIH23\_010027



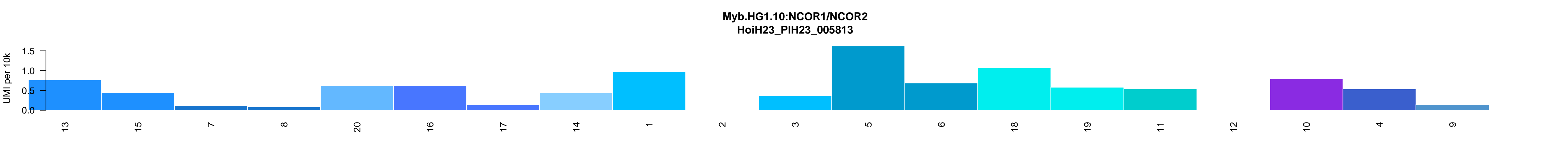
MADS-box\_SRF.HG1.2:SRF  
HoiH23\_PIH23\_000452



Myb.HG1.1:DNAJC1/DNAJC2  
HoiH23\_PIH23\_002451



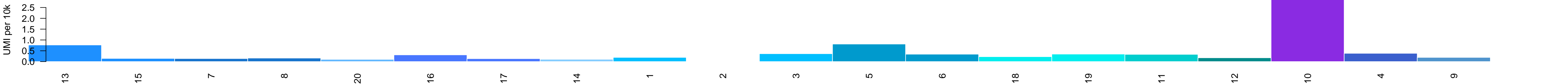




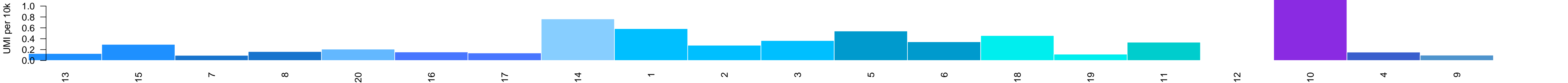
Myb.HG1.14:DMTF1/TTF1  
HoiH23\_PIH23\_010545



Myb.HG1.16:RCOR1/RCOR2/RCOR3  
HoiH23\_PIH23\_004866



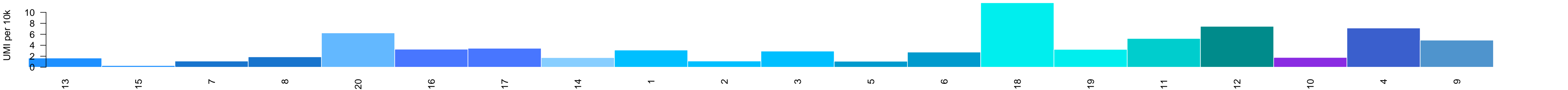
Myb.HG1.3:SMARCC1/SMARCC2  
HoiH23\_PIH23\_009583



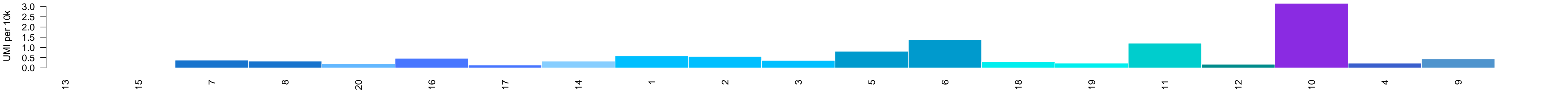
Myb.HG1.6:TADA2B  
HoiH23\_PIH23\_005515



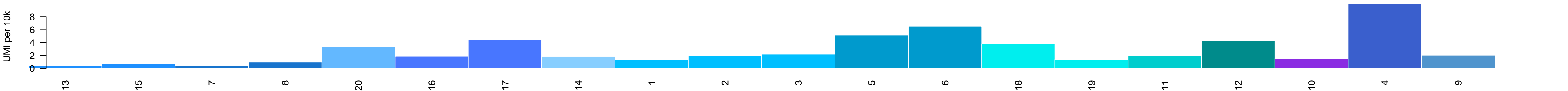
NFYB\_NFYC.HG1.1:CU639417.1/H2BC1/H2BC3/H2BC4/H2BC5/H2BC6/H2BC7/H2BC8/H2BC9/H2BC10/H2BC11/H2BC12/H2BC13/H2BC14/H2BC15/H2BC17/H2BC18/H2BC21/H2BE1/H2BS1/H2BU1/H2BW2  
HoiH23\_PIH23\_003155



NFYB\_NFYC.HG2.0:like:H2AC1/H2AC4/H2AC6/H2AC7/H2AC8/H2AC11/H2AC12/H2AC13/H2AC14/H2AC15/H2AC16/H2AC17/H2AC18/H2AC19/H2AC20/H2AC21/H2AJ/H2AW/H2AX  
HoiH23\_PIH23\_001615

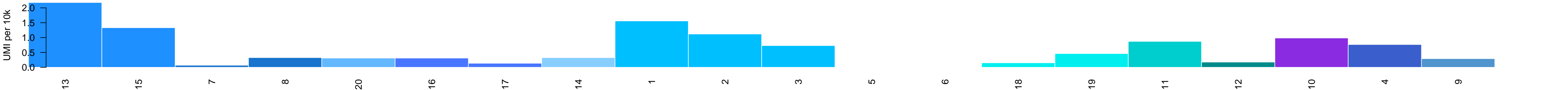


NFYB\_NFYC.HG2.3:H2AC1/H2AC4/H2AC6/H2AC7/H2AC8/H2AC11/H2AC12/H2AC13/H2AC14/H2AC15/H2AC16/H2AC17/H2AC18/H2AC19/H2AC20/H2AC21/H2AJ/H2AW/H2AX  
HoiH23\_PIH23\_007728

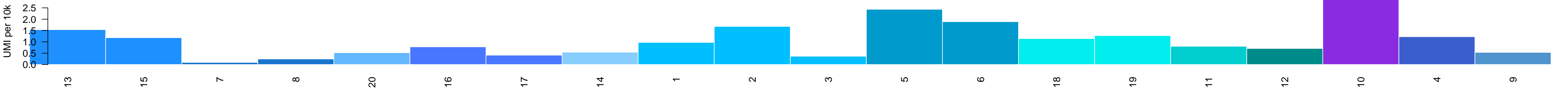




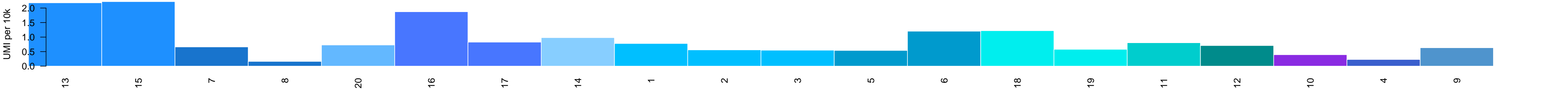
NFYB\_NFYC.HG3.2:DRAP1  
HoiH23\_PIH23\_010470



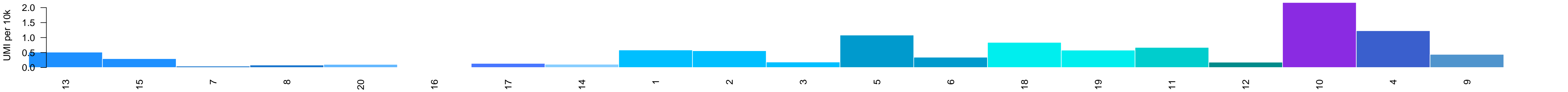
NFYB\_NFYC.HG4.1:like:DR1/NFYB/POLE3  
HoiH23\_PIH23\_001179



NFYB\_NFYC.HG4.5:NFYB  
HoiH23\_PIH23\_003580



NFYB\_NFYC.HG4.6:POLE3  
HoiH23\_PIH23\_003612



RFX.HG1.3:RFX1/RFX2/RFX3  
HoiH23\_PIH23\_004136



RFX.HG1.7:RFX4/RFX6  
HoiH23\_PIH23\_001264



Runt\_Runx.HG1.0:RUNX1/RUNX2/RUNX3

HoiH23\_PIH23\_002676

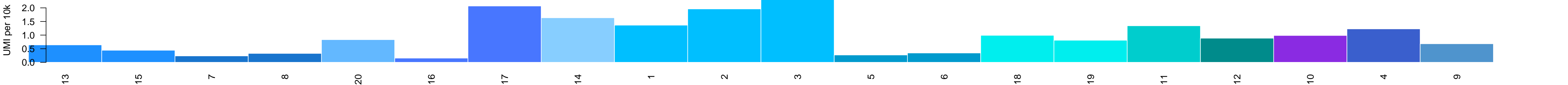
UMI per 10k

1.5  
1.0  
0.5  
0.0

13 15 7 8 20 16 17 14 1 2 3 5 6 18 19 11 12 10 4 9

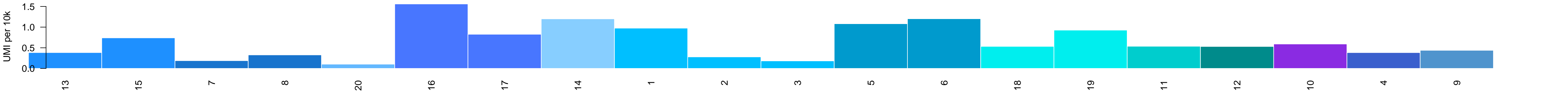


SMAD\_MH1.HG1.6:like:SMAD1/SMAD2/SMAD3/SMAD4/SMAD5/SMAD9  
HoiH23\_PIH23\_000268

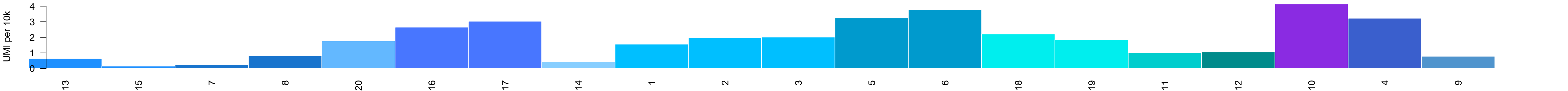




SMAD\_MH1.HG1.9:SMAD2/SMAD3  
HoiH23\_PIH23\_002604



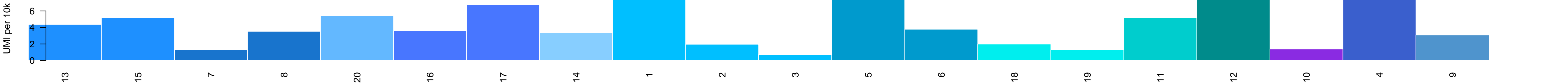
STAT.HG1.0:like:STAT1/STAT2/STAT3/STAT4/STAT5A/STAT5B/STAT6  
HoiH23\_PIH23\_003715



T-box.HG1.1:TBX19/TBXT  
HoiH23\_PIH23\_003143



T-box.HG1.14:TBX2/TBX3  
HoiH23\_PIH23\_000389



T-box.HG1.9:TBX4/TBX5  
HoiH23\_PIH23\_000390

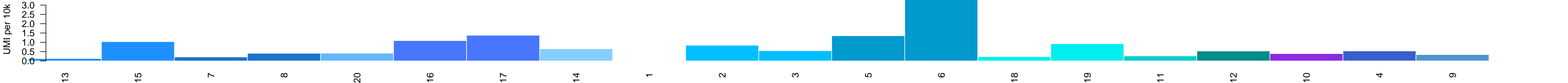
UMI per 10k

1.5  
1.0  
0.5  
0.0

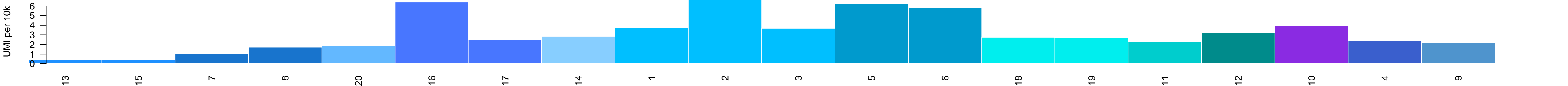
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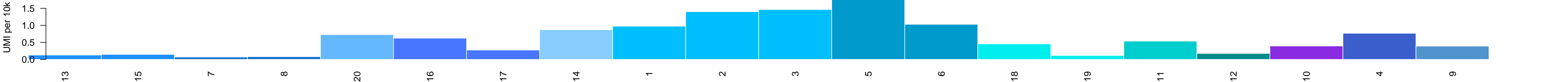
TEA.HG1.1:TEAD1/TEAD2/TEAD3/TEAD4  
HoiH23\_PIH23\_006058



Tub.HG1.4:TUB/TULP3  
HoiH23\_PIH23\_007135



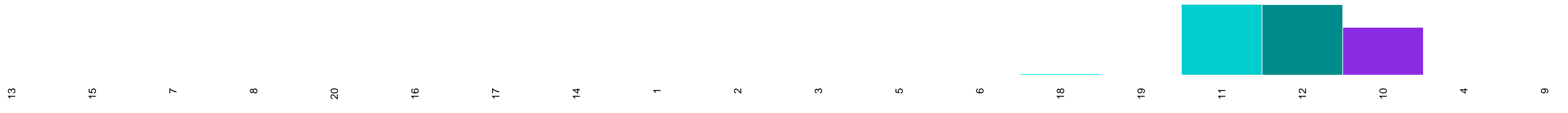
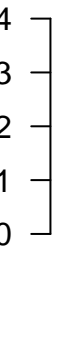
zf-BED.HG4.0:NA  
HoiH23\_PIH23\_003431

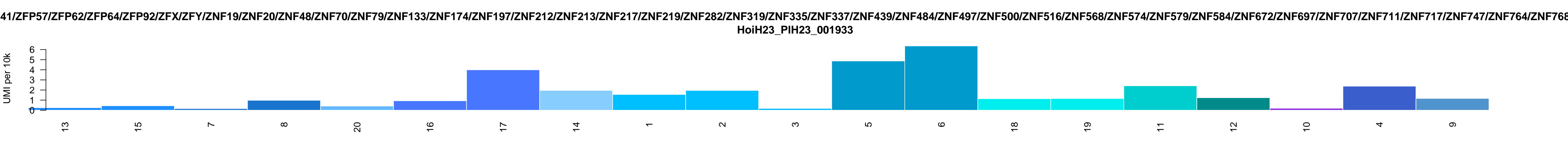




zf-C2H2.HG1.107:GFI1/GFI1B;zf-met.HG1.75:like:GFI1/MAZ/PATZ1/SALL1/SALL2/SALL3/SALL4/ZBTB14/ZBTB49/ZNF236/ZNF384/ZNF426/ZNF524/ZNF559-ZNF177/ZNF628/ZNF883  
HoiH23\_PIH23\_002514

UMI per 10k





zf-C2H2.HG10.4:ZNF148/ZNF740  
HoiH23\_PIH23\_006716

UMI per 10k

5  
4  
3  
2  
1  
0

13

15

7

8

20

16

17

14

1

2

3

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6

18

19

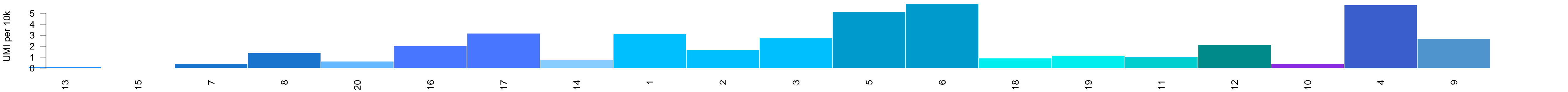
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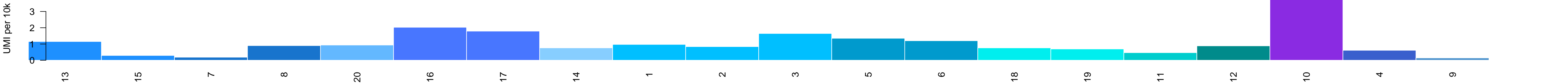
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4

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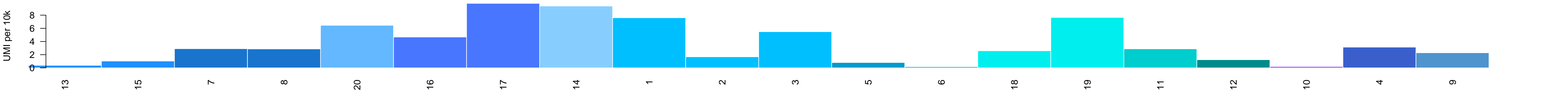


zf-C2H2.HG12.1:SCRT1/SCRT2/SNAI1/SNAI2/SNAI3/ZNF526;zf-met.HG1.40:PRDM5/SNAI1/SNAI2/SNAI3  
HoiH23\_PIH23\_000744

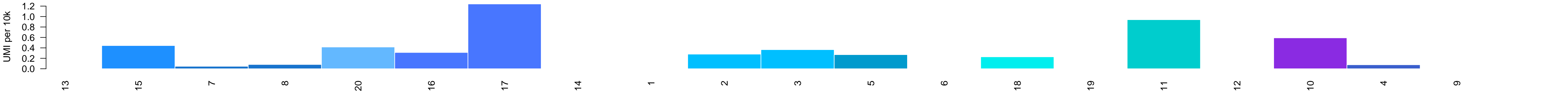


zf-C2H2.HG13.4:EGR1/EGR2/EGR3/EGR4

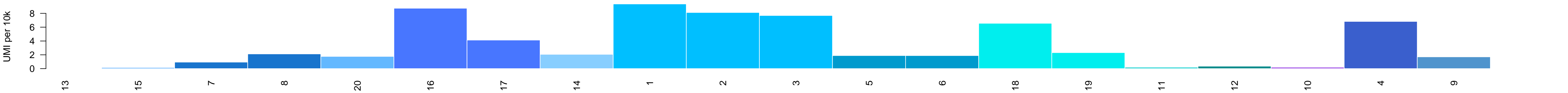
HoiH23\_PIH23\_003745



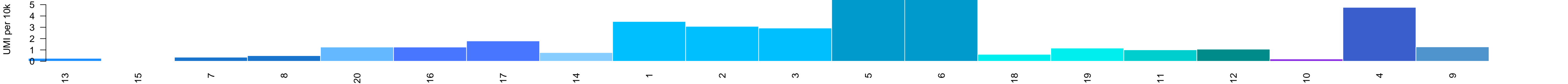
zf-C2H2.HG133.1:ZNF304  
HoiH23\_PIH23\_001937



zf-C2H2.HG19.0:INSM1/INSM2  
HoiH23\_PIH23\_005435

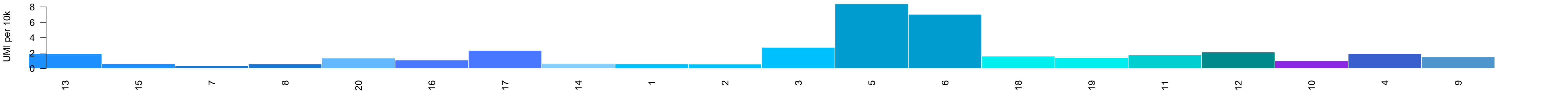


zf-C2H2.HG22.2:FEZF1/FEZF2;zf-met.HG1.53:like:PRDM12  
HoiH23\_PIH23\_010906

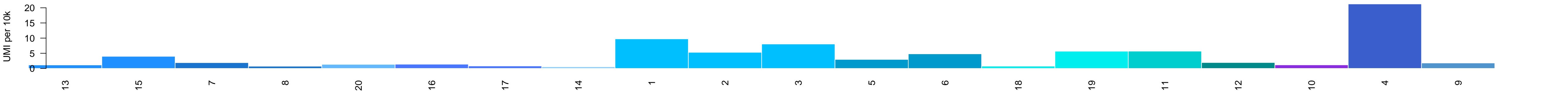




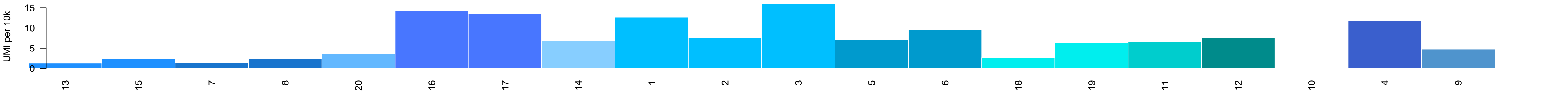
zf-C2H2.HG3.11:KLF10/KLF11  
HoiH23\_PIH23\_005981



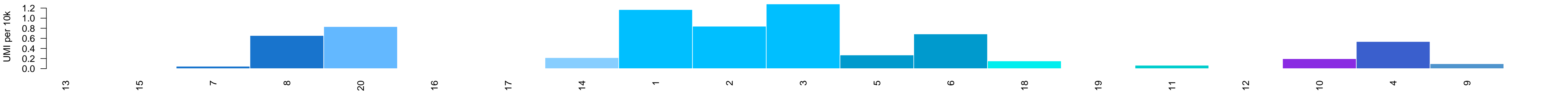
zf-C2H2.HG3.16:KLF1/KLF2/KLF3/KLF4/KLF5/KLF6/KLF7/KLF8/KLF12  
HoiH23\_PIH23\_010552



zf-C2H2.HG4.2:PLAGL1/ZNF367;zf-met.HG1.87:like:GFI1/MAZ/PATZ1/SALL1/SALL2/SALL3/SALL4/ZBTB14/ZBTB49/ZNF236/ZNF384/ZNF426/ZNF524/ZNF559-ZNF177/ZNF628/ZNF883  
HoiH23\_PIH23\_008115



zf-C2H2.HG6.15:ZEB1/ZEB2  
HoiH23\_PIH23\_001935



zf-C2H2.HG6.8:AC008770.2/ZNF260/ZNF320/ZNF551/ZNF555/ZNF658/ZNF732/ZNF763

HoiH23\_PIH23\_001423

UMI per 10k

6  
4  
2  
0

13

15

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8

20

16

17

14

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19

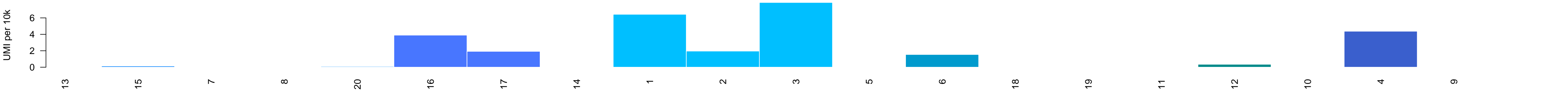
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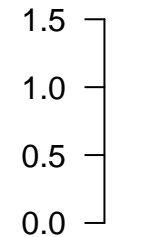


zf-C2H2.HG9.1:KLF13  
HoiH23\_PIH23\_003047

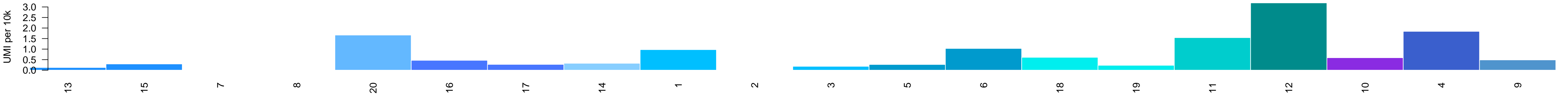


zf-C2H2.HG9.10:SP6/SP7/SP8/SP9  
HoiH23\_PIH23\_003415

UMI per 10k

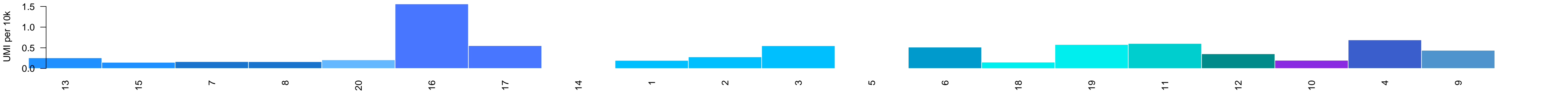


zf-C4\_Nuclear\_receptors.HG1.15:like:NR2E1/NR2E3/NR2F1/NR2F2/NR2F6  
HoiH23\_PIH23\_000088





zf-C4\_Nuclear\_receptors.HG1.24:HNF4A/HNF4G  
HoiH23\_PIH23\_005607



zf-C4\_Nuclear\_receptors.HG1.36:NR2E3  
HoiH23\_PIH23\_006228

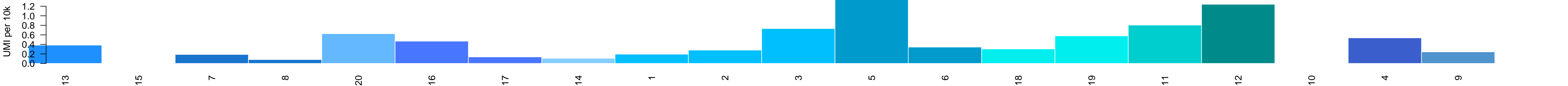
UMI per 10k

15  
10  
5  
0

13 15 7 8 20 16 17 14 1 2 3 5 6 18 19 11 12 10 4 9



zf-C4\_Nuclear\_receptors.HG1.9:RXRA/RXRB/RXRG  
HoiH23\_PIH23\_002491



zf-met.HG3.5:like:ZFR/ZFR2  
HoiH23\_PIH23\_007791

