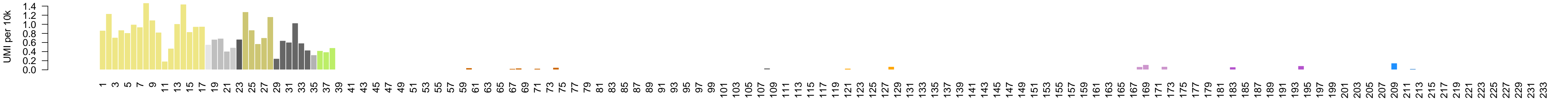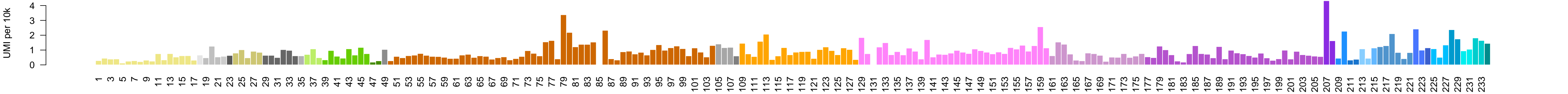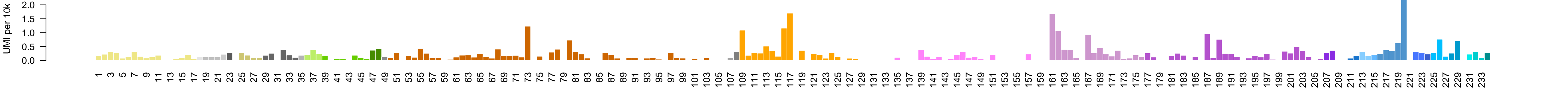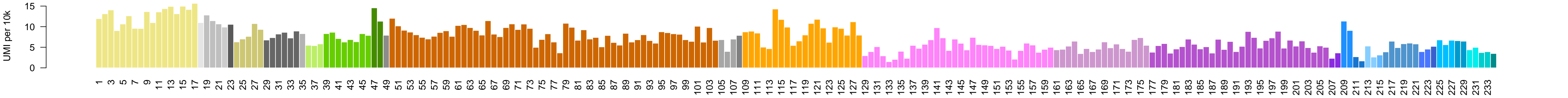**AXH.HG1.0:ATXN1/ATXN1L/HBP1**
HoiH23_PIH23_005722

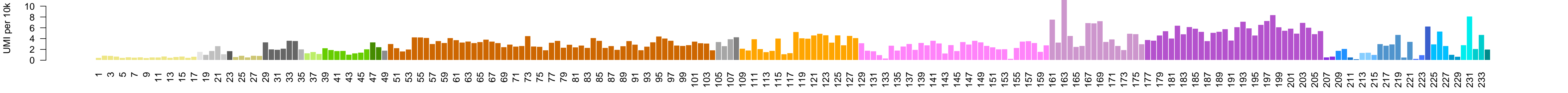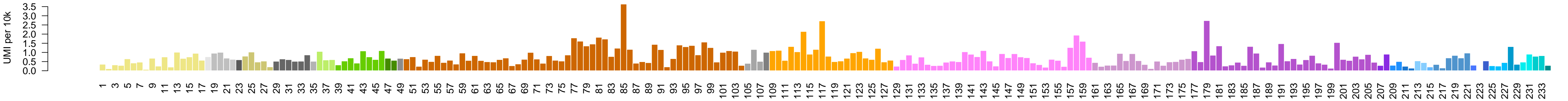AXH.HG1.0:ATXN1/ATXN1L/HBP1
HoiH23_PIH23_007590

CSD.HG1.0:CSDE1
HoiH23_PIH23_008576

CSD.HG1.3:YBX1/YBX2/YBX3
HoiH23_PIH23_006840

CSD.HG1.5:CARHSP1/CSDC2
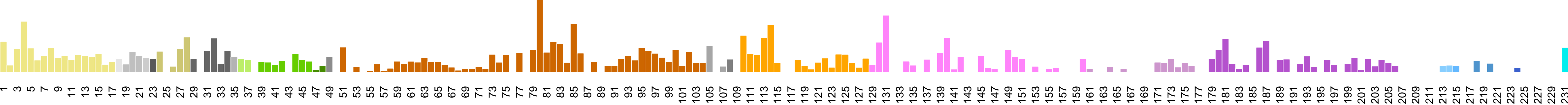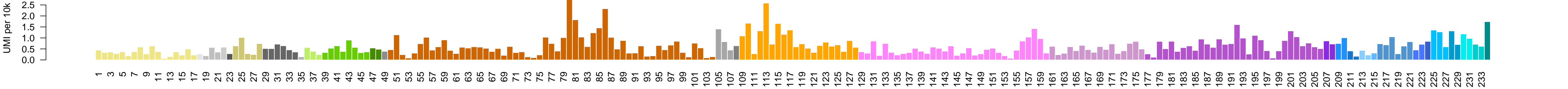HoiH23_PIH23_000175

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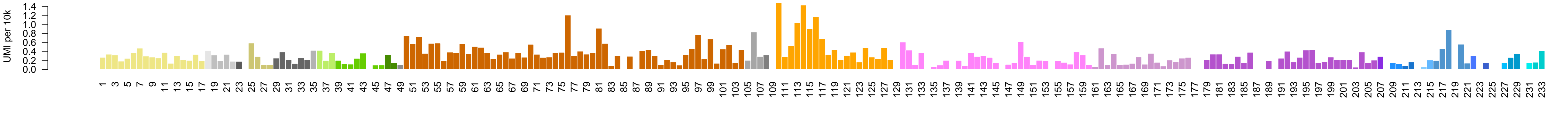HoiH23_PIH23_001329

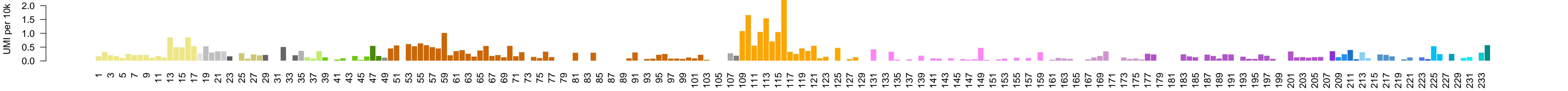DEAD.HG1.1:like:DDX41
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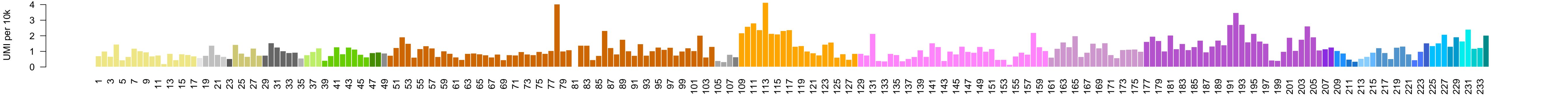**DEAD.HG1.10:DDX5/DDX17**
HoiH23_PIH23_000785

DEAD.HG1.16:DDX24
HoiH23_PIH23_002832

DEAD.HG1.18:like:DDX21/DDX50
HoiH23_PIH23_008066

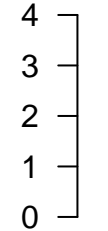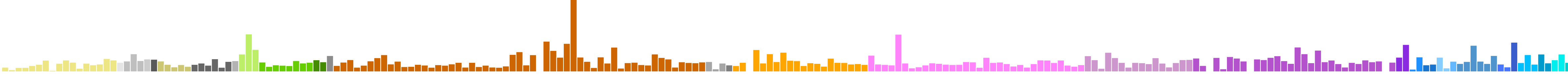DEAD.HG1.19:DDX21/DDX50
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DEAD.HG1.2:DDX41
HoiH23_PIH23_007954

DEAD.HG1.23:DDX3X/DDX3Y
HoiH23_PIH23_008425

DEAD.HG1.27:DDX28
HoiH23_PIH23_004567

DEAD.HG1.28:DDX56
HoiH23_PIH23_010839

DEAD.HG1.29:DDX54
HoiH23_PIH23_010163

DEAD.HG1.3:DDX59
HoiH23_PIH23_006199

DEAD.HG1.31:DDX31
HoiH23_PIH23_001062
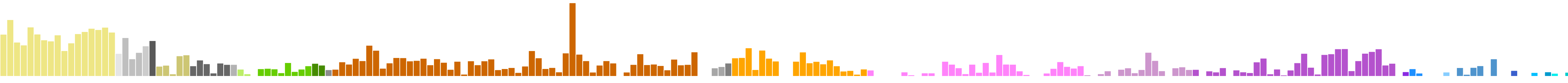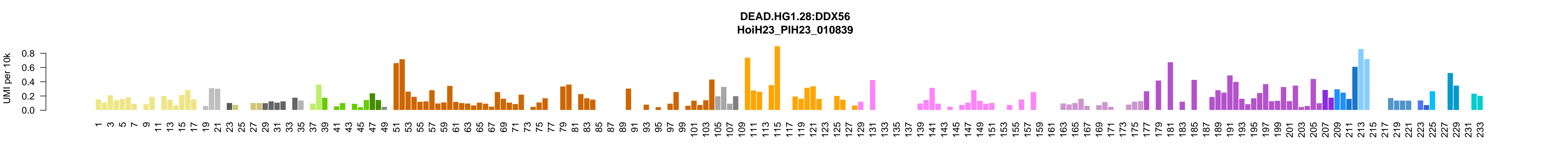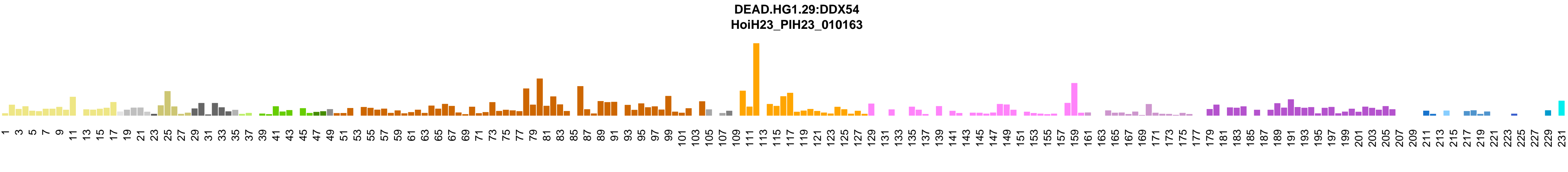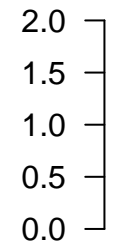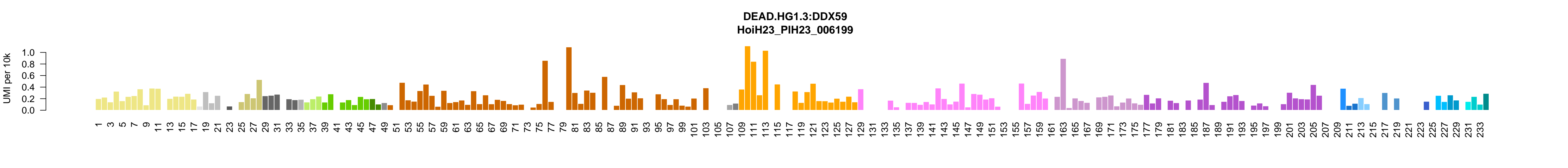
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DEAD.HG1.33:DDX55
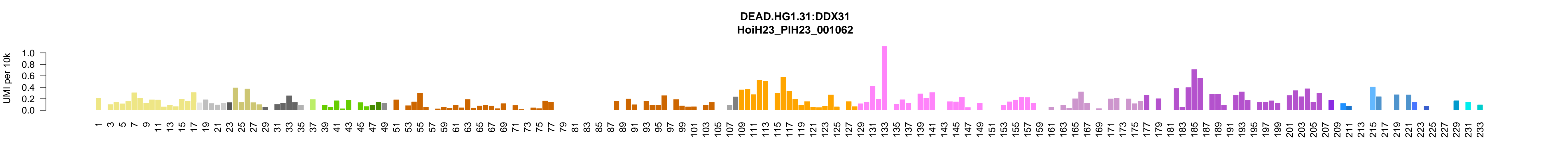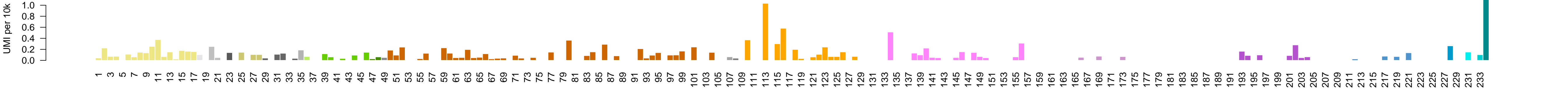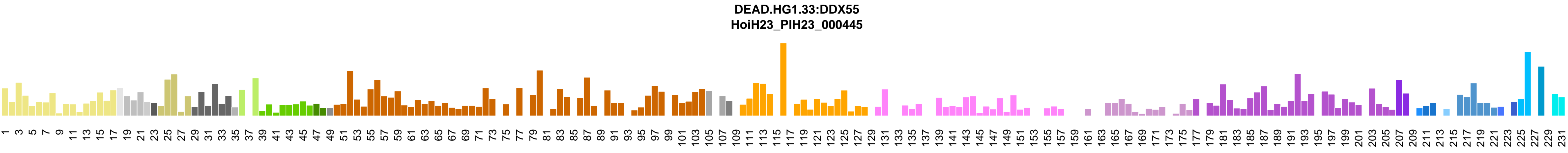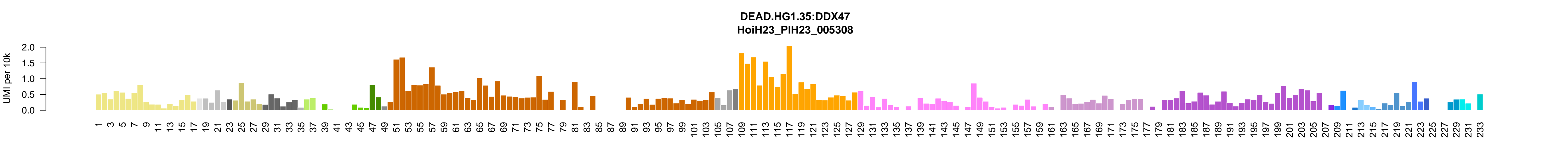HoiH23_PIH23_000445

DEAD.HG1.35:DDX47
HoiH23_PIH23_005308

DEAD.HG1.4:DDX46
HoiH23_PIH23_008350

DEAD.HG1.8:DDX52
HoiH23_PIH23_004624

DEAD.HG2.29:BLM
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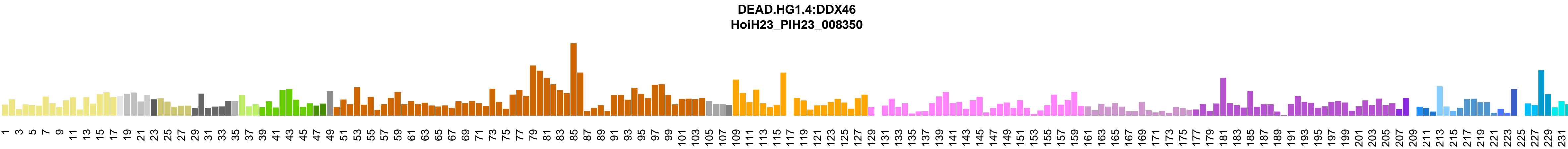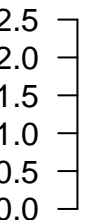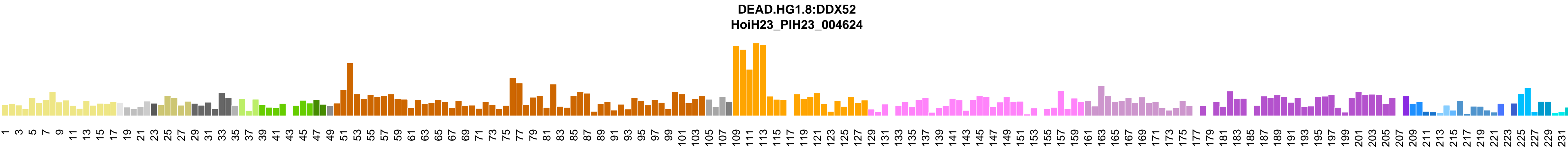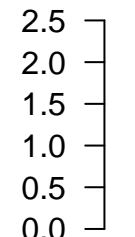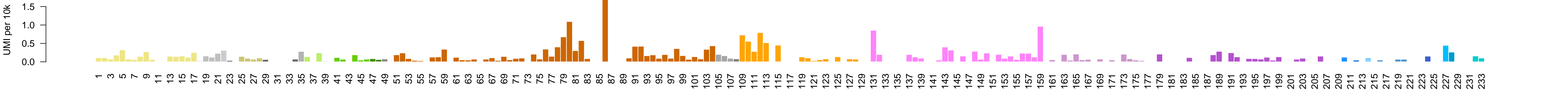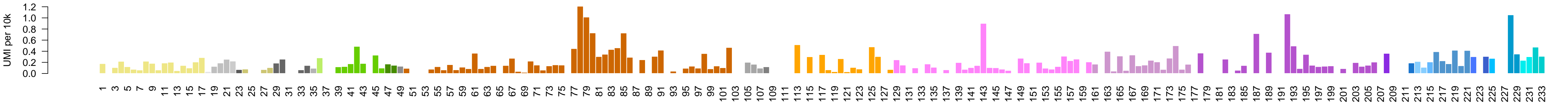
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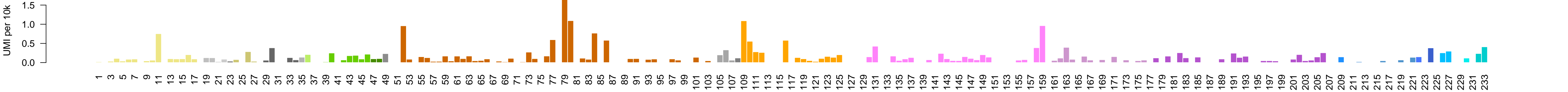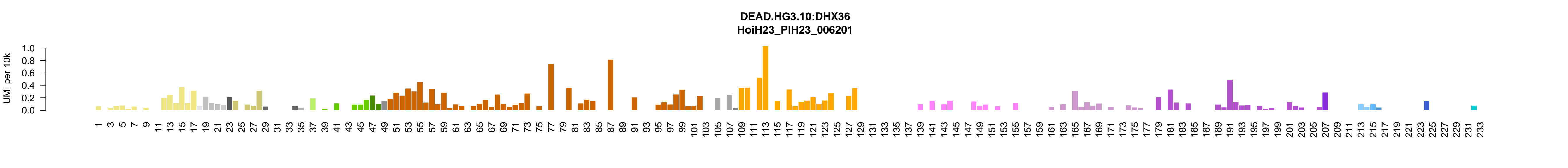
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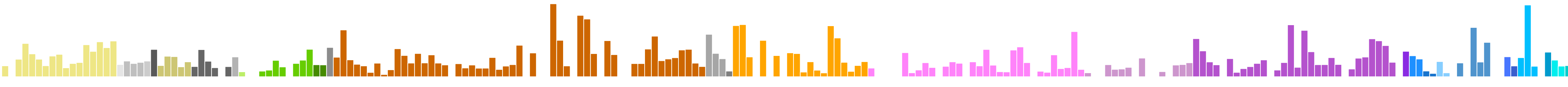DEAD.HG3.1:YTHDC2;YTH.HG1.2:YTHDC2
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DEAD.HG3.10:DHX36
HoiH23_PIH23_006201
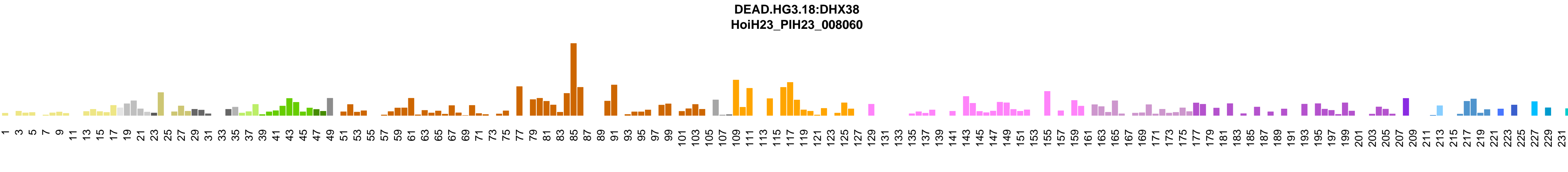
DEAD.HG3.17:DHX16
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DEAD.HG3.18:DHX38
HoiH23_PIH23_008060

DEAD.HG3.3:like:DHX15/DHX16/DHX33/DHX37/DHX38/DHX40
HoiH23_PIH23_009119

DEAD.HG3.5:DHX37
HoiH23_PIH23_004543
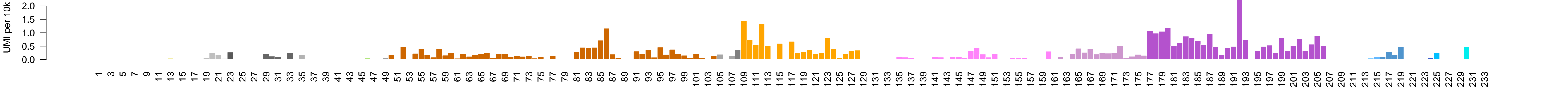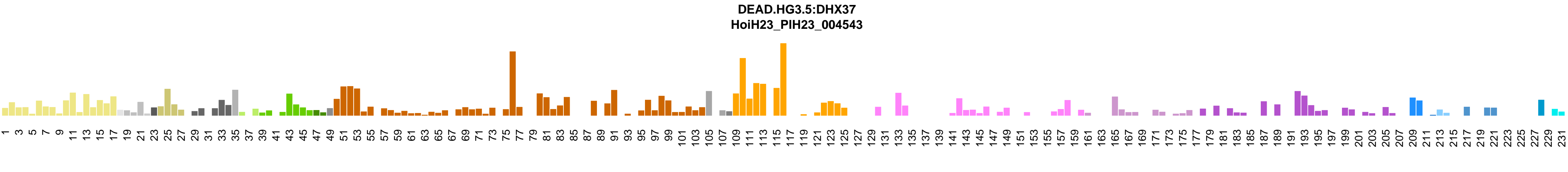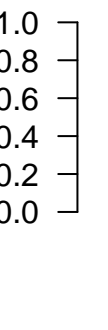
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DEAD.HG4.18:EIF4A3
HoiH23_PIH23_004591
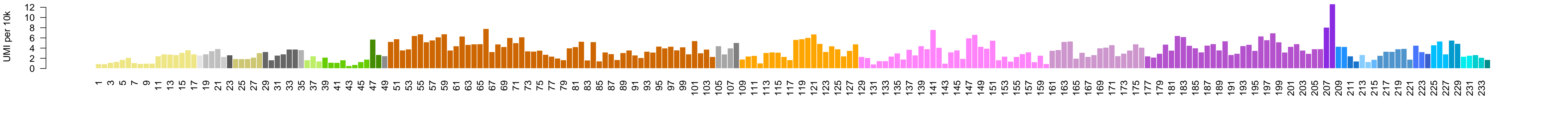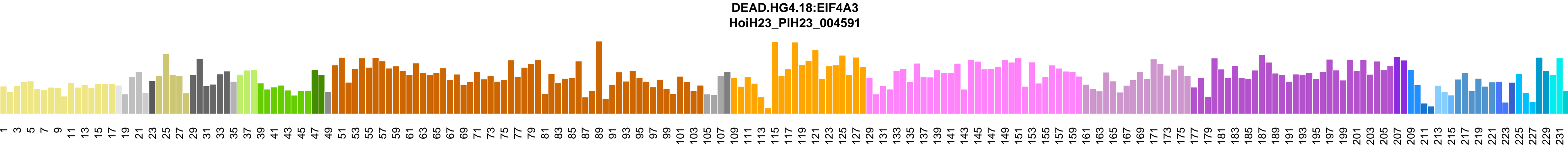
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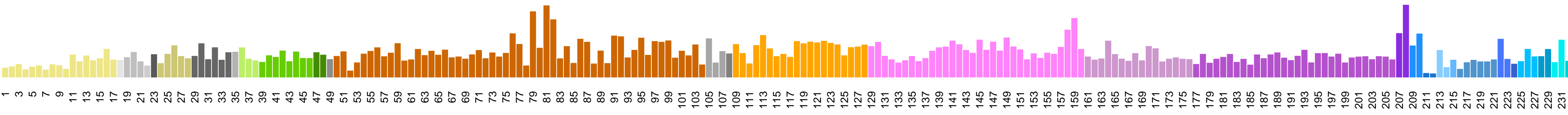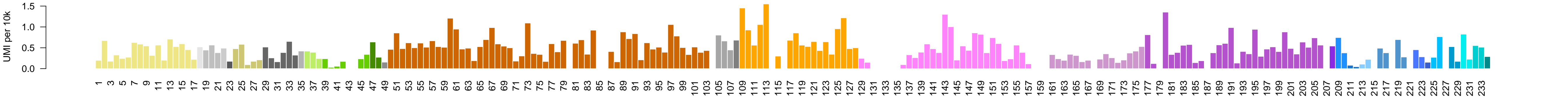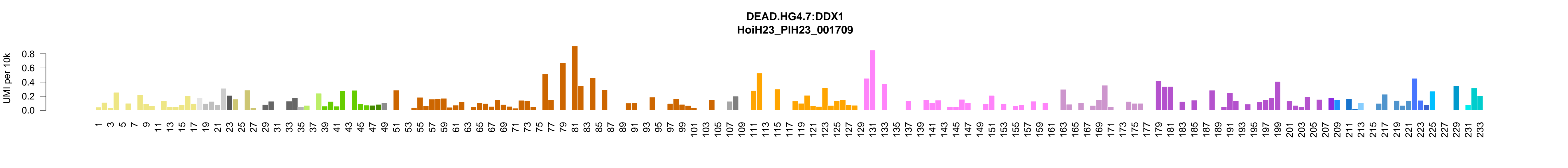
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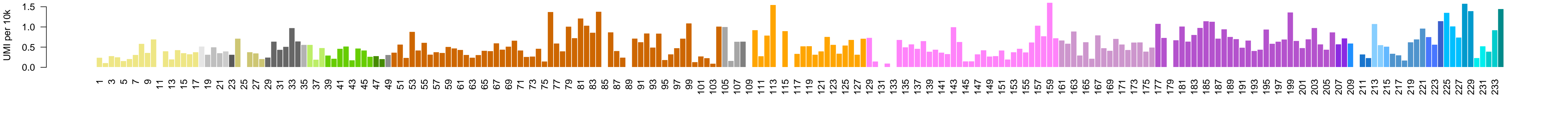
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DEAD.HG4.8:DDX6
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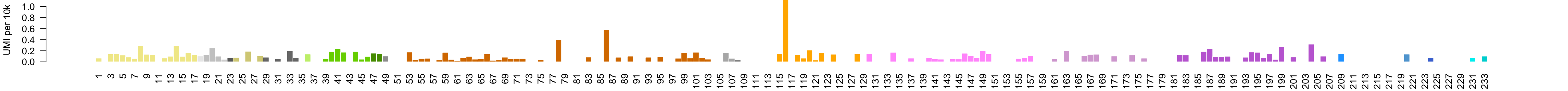DEAD.HG6.0:like:DDX58/DHX58/DICER1/FANCM/IFIH1
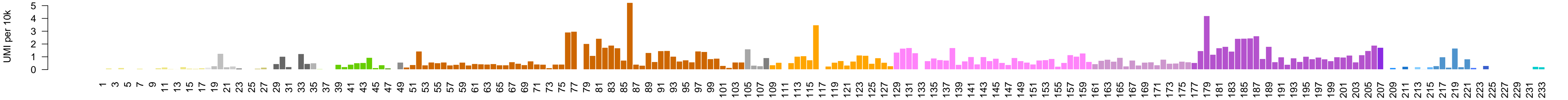HoiH23_PIH23_001281

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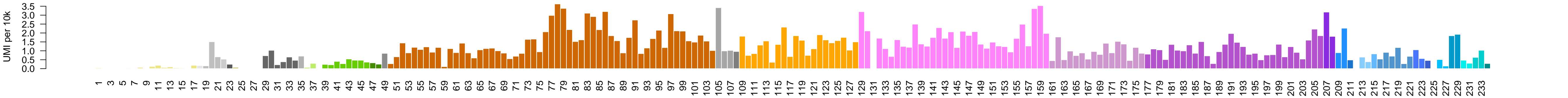HoiH23_PIH23_006795

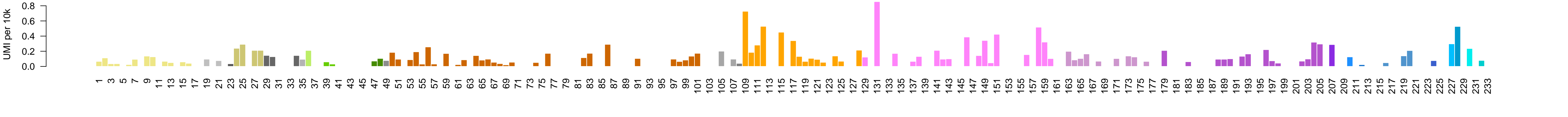**DEAD.HG6.2:FANCM**
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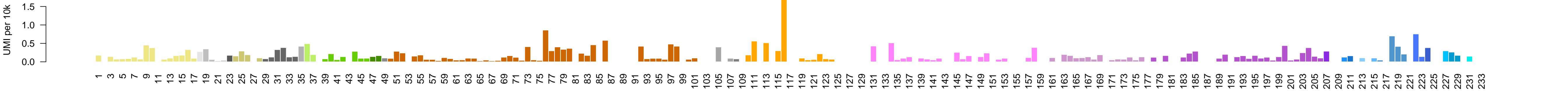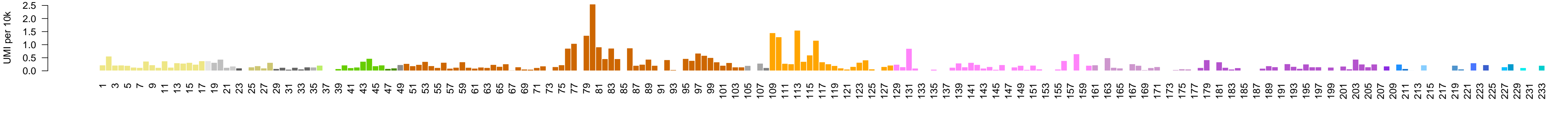
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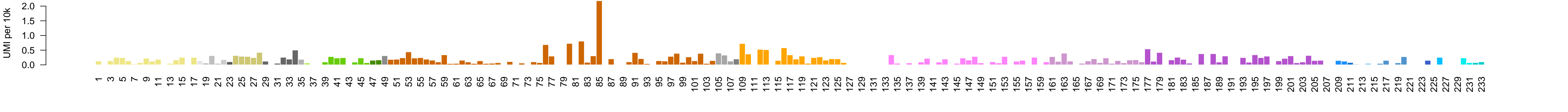
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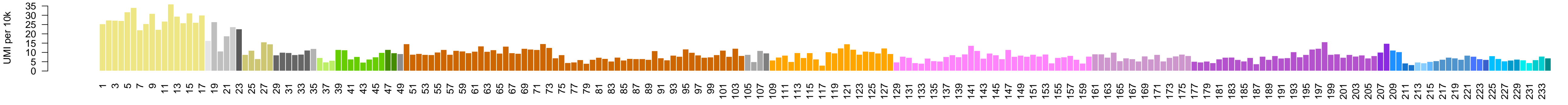
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DEAD.HG7.1:SMARCA1/SMARCA5
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DEAD.Unclassified
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DEAD.Unclassified
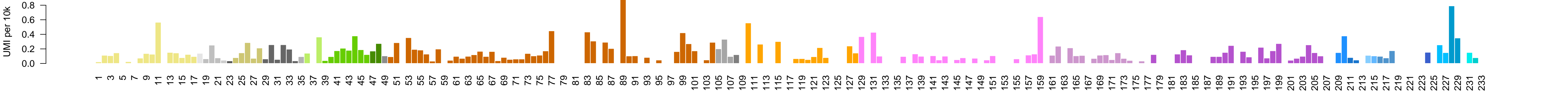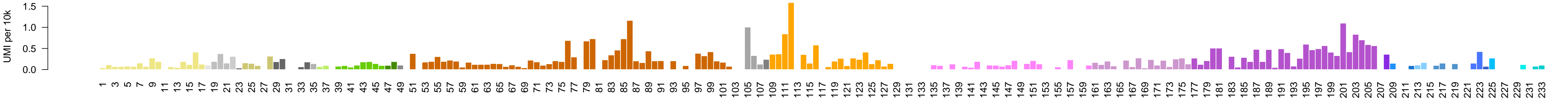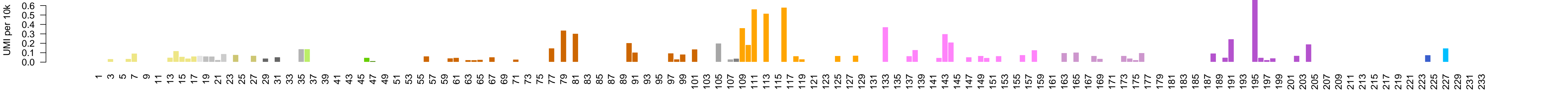**HoiH23_PIH23_003766**

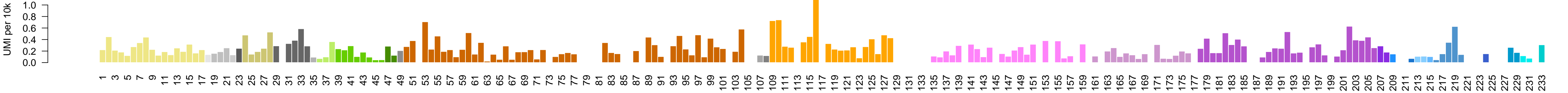DEAD.Unclassified
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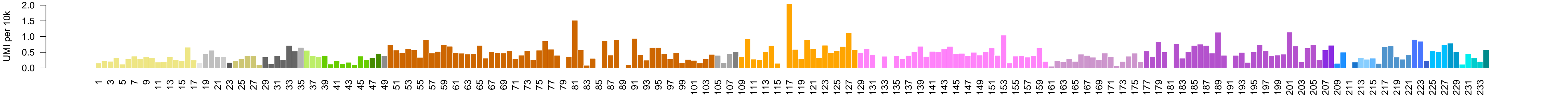HoiH23_PIH23_004670

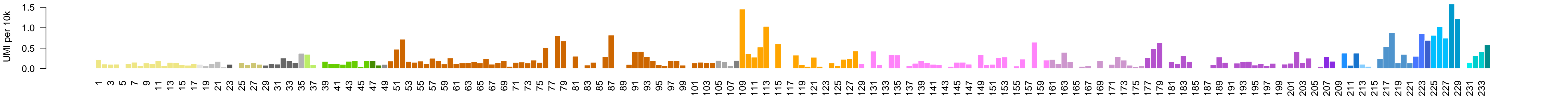DEAD.Unclassified
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Exosome.HG1.0:EXOSC1
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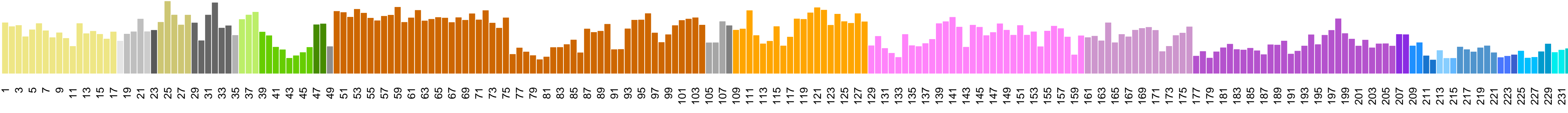KH.HG2.0:SF1
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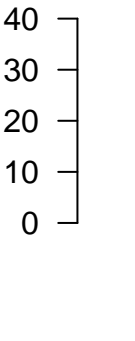
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KH.HG3.0:RPS3
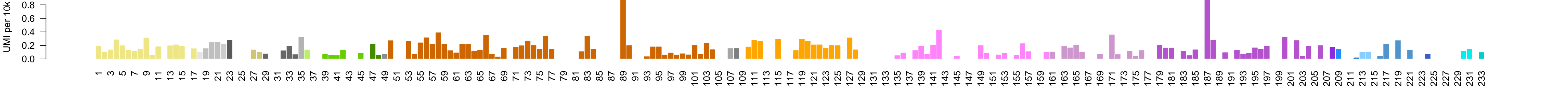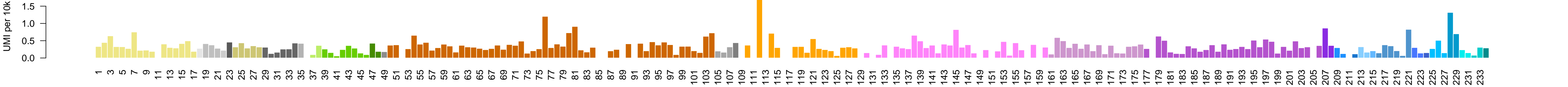HoiH23_PIH23_009145

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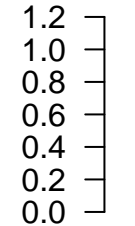HoiH23_PIH23_004148

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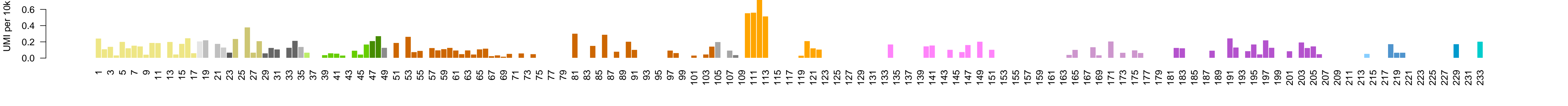HoiH23_PIH23_002352

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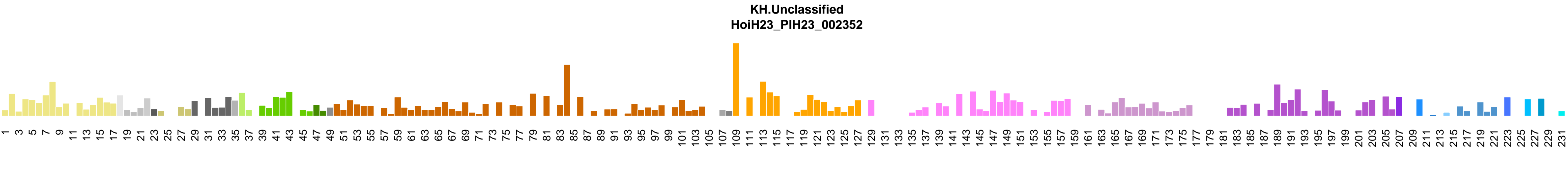
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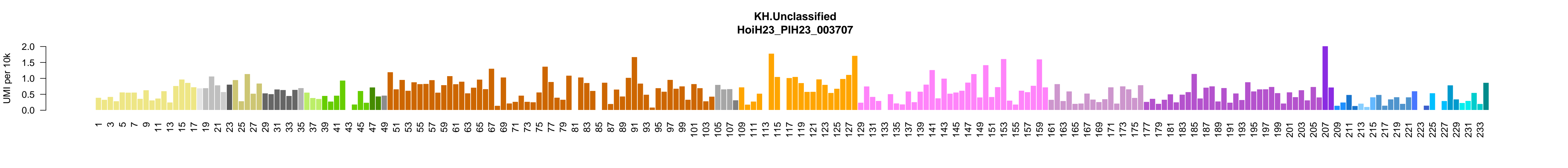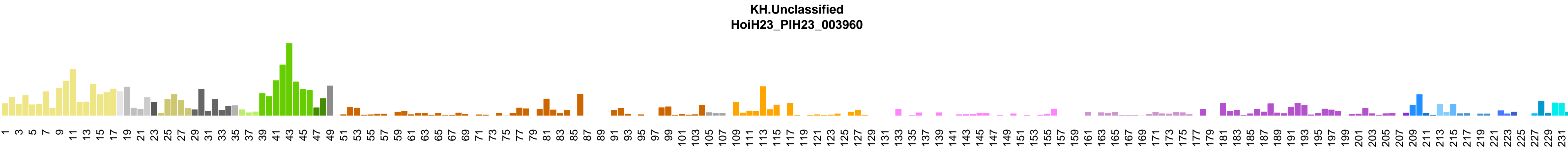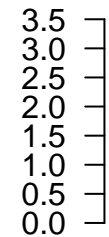
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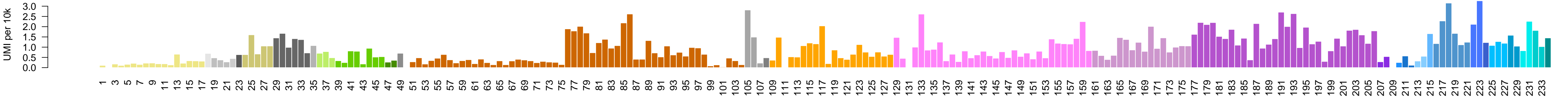
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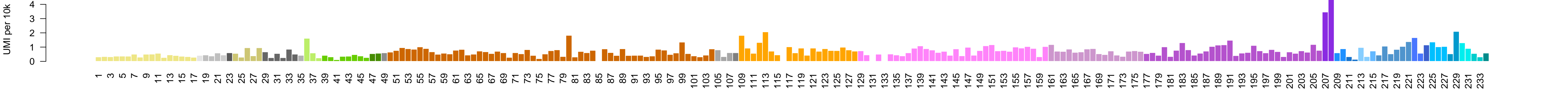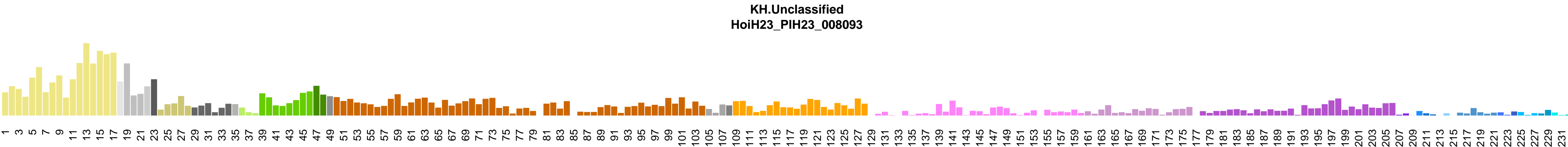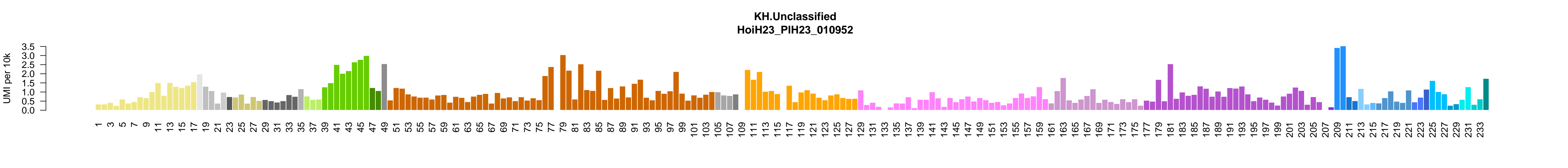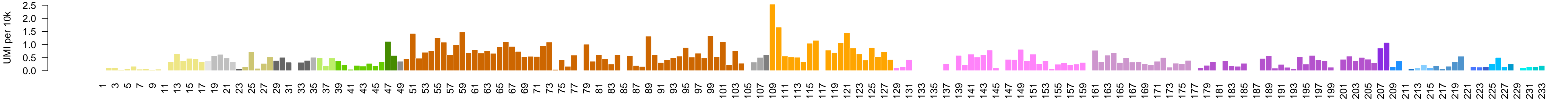
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KH.Unclassified
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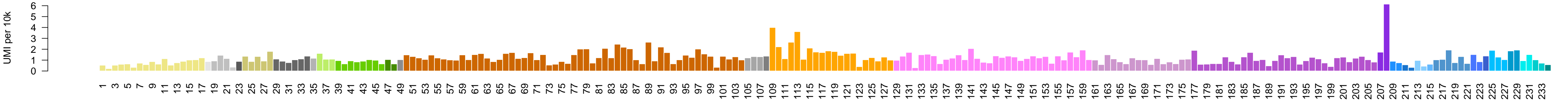
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La.HG1.3:LARP6
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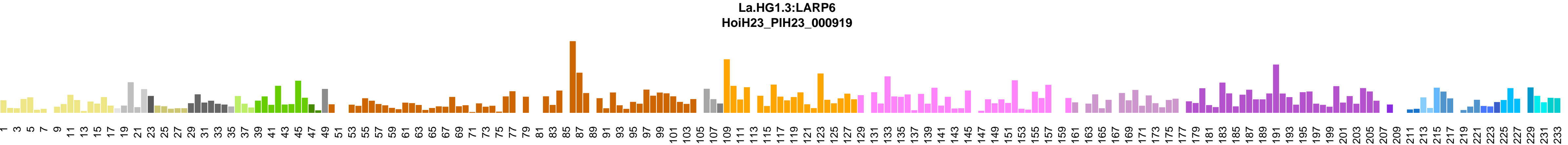
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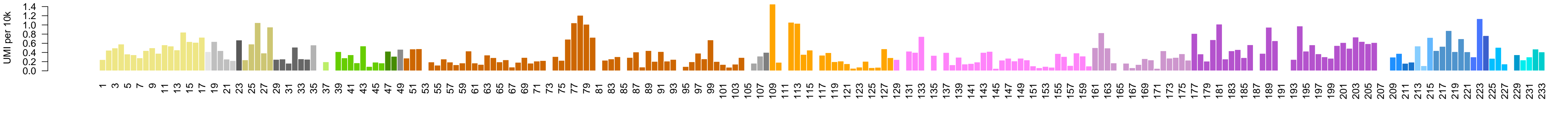
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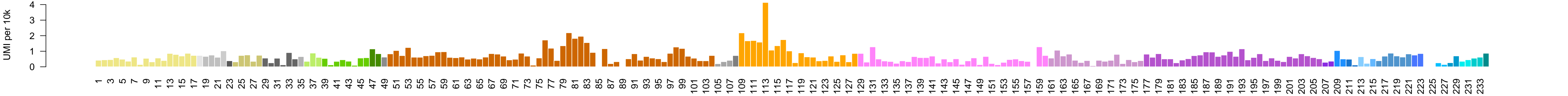
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LSM.HG1.10:SNRPD2
HoiH23_PIH23_004986

LSM.HG1.11:SNRPF
HoiH23_PIH23_006674

LSM.HG1.12:LSM6
HoiH23_PIH23_008924

LSM.HG1.13:LSM4
HoiH23_PIH23_003977
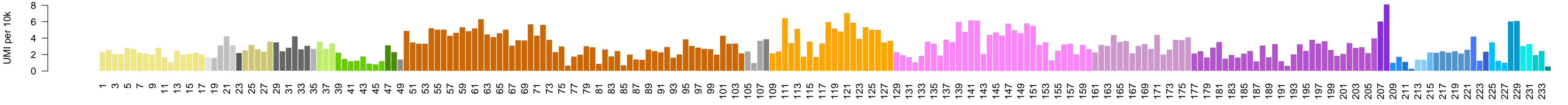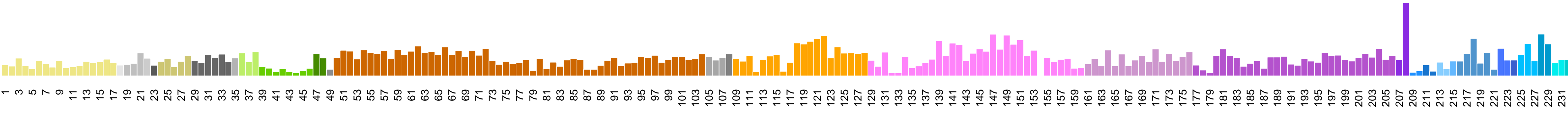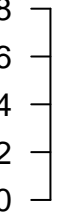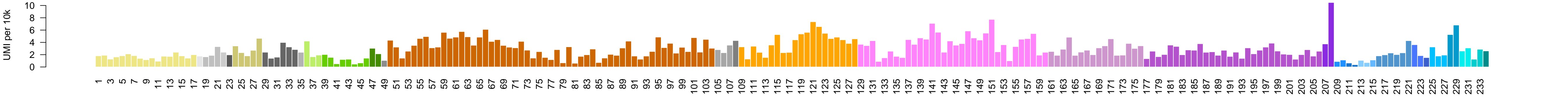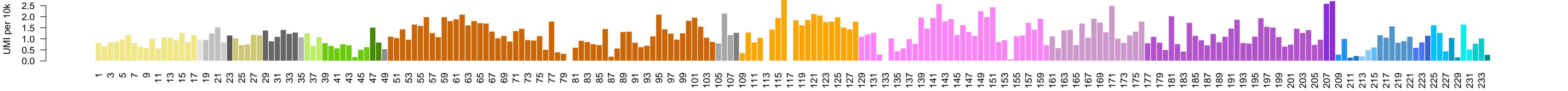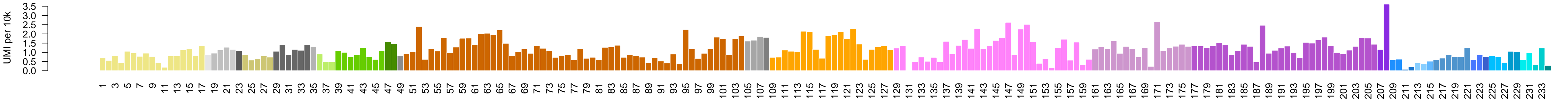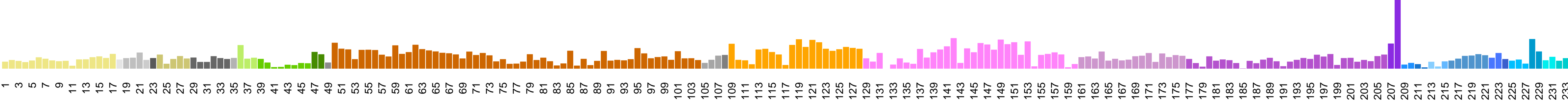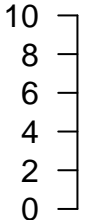
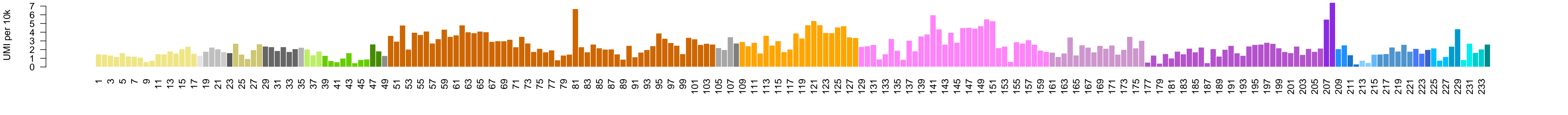LSM.HG1.14:AP000356.5/SNRPD3
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LSM.HG1.15:SNRPD1
HoiH23_PIH23_008502

LSM.HG1.3:SNRPE
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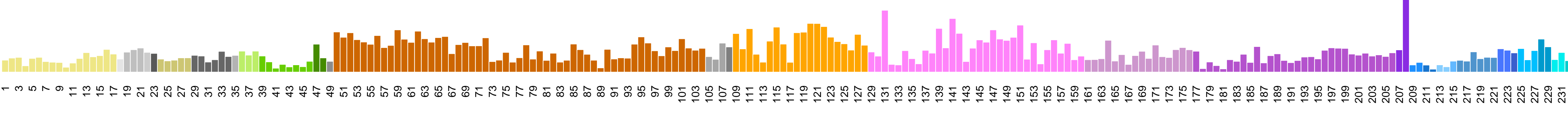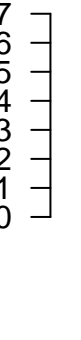
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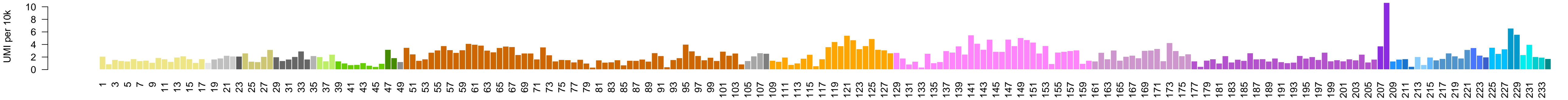
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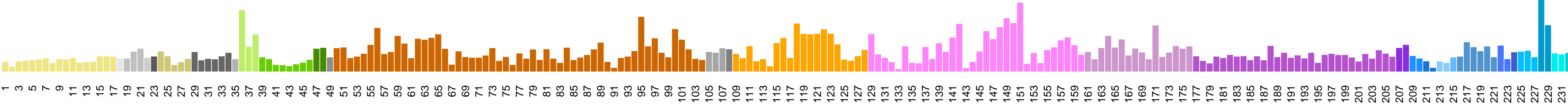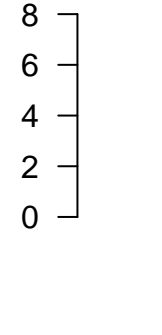
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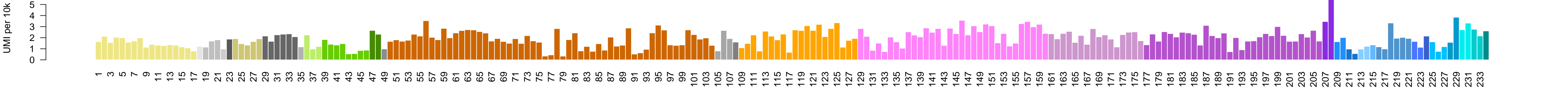
LSM.HG1.7:LSM1
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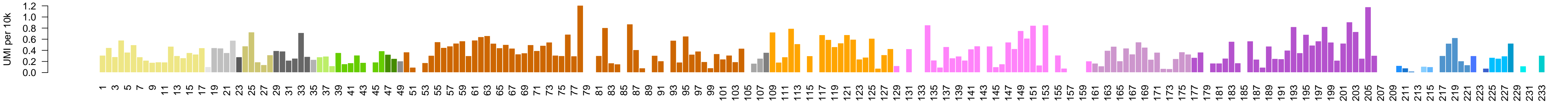
LSM.HG1.9:LSM3
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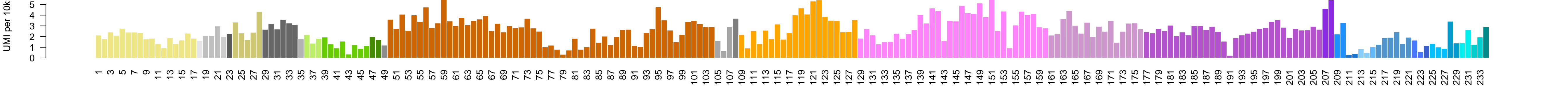
LSM.HG2.0:LSM14A/LSM14B
HoiH23_PIH23_005209
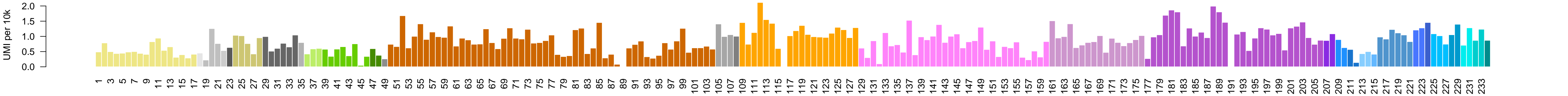
Piwi.HG1.1:AGO1/AGO2/AGO3/AGO4
HoiH23_PIH23_003379
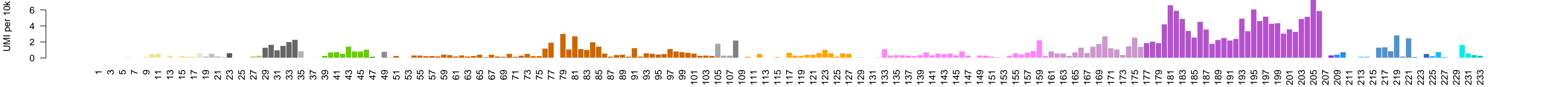
PUA.HG1.0:PAPSS1/PAPSS2
HoiH23_PIH23_003035

PUA.HG2.0:DKC1
HoiH23_PIH23_006872
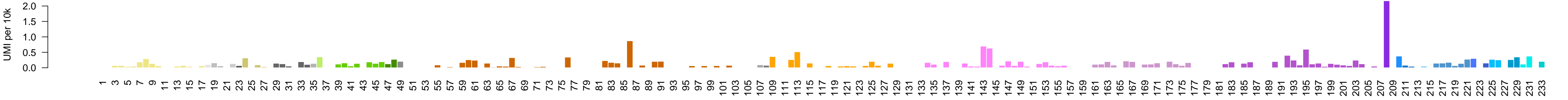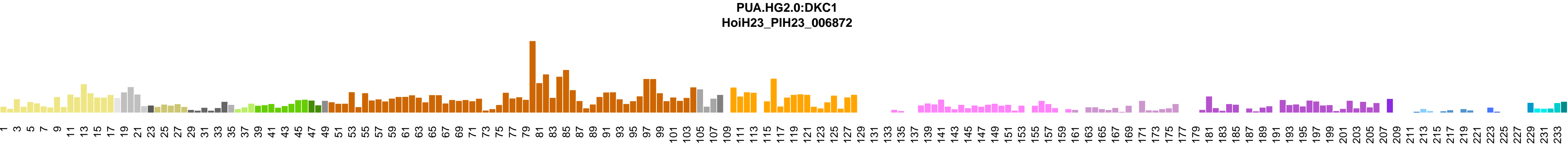
PUA.HG3.1:MCTS1/MCTS2P
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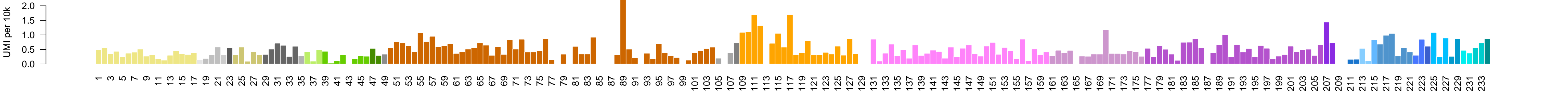
PUA.HG4.0:NA
HoiH23_PIH23_007526
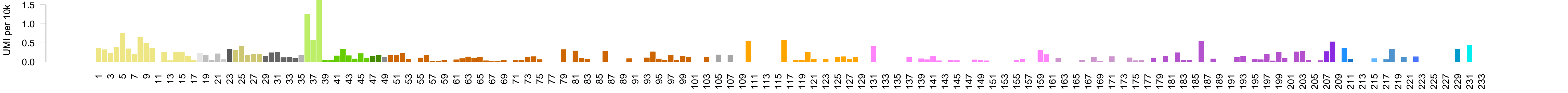
Pumilio.HG1.0:like:PUM1/PUM2

HoiH23_PIH23_005212
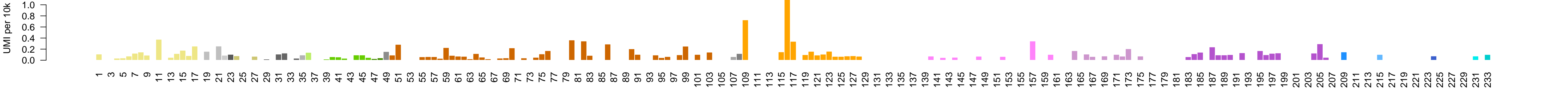
Pumilio.HG1.2:PUM1/PUM2
HoiH23_PIH23_003573
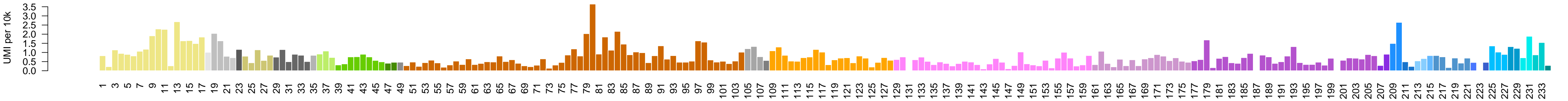
PWI.HG1.3:RBM25;RRM.HG5.3:RBM25
HoiH23_PIH23_005457
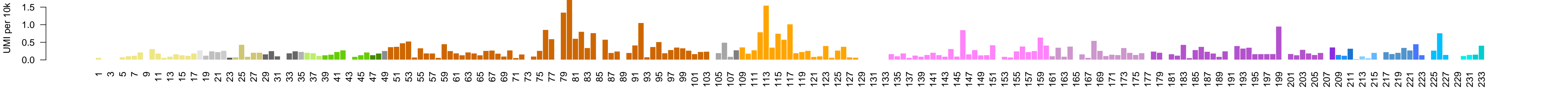
PWI.HG1.4:SRRM1
HoiH23_PIH23_008007
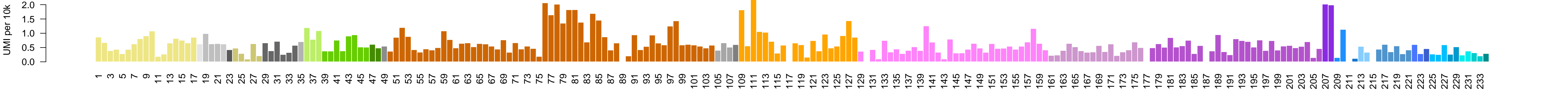
PWI.HG1.5:like:AC091959.1/RBM26/RBM27;zf−CCCH.HG6.0:ZC3H14
HoiH23_PIH23_008738

PWI.HG1.6:AC091959.1/RBM26/RBM27;zf−CCCH.HG2.7:AC091959.1/RBM27
HoiH23_PIH23_007097
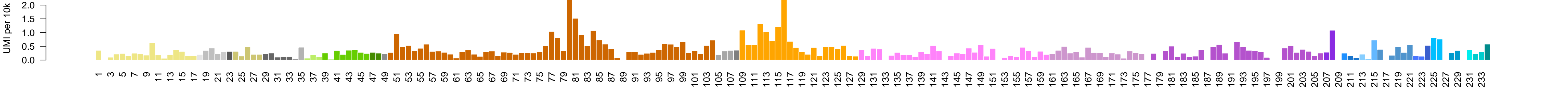
RRM.HG1.11:RBMX/RBMXL1/RBMXL2
HoiH23_PIH23_002371

RRM.HG1.16:AP002373.1/RBM7/RBM11
HoiH23_PIH23_003963

RRM.HG1.19:SF3B4
HoiH23_PIH23_006785

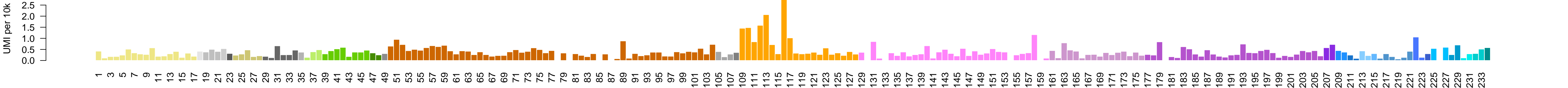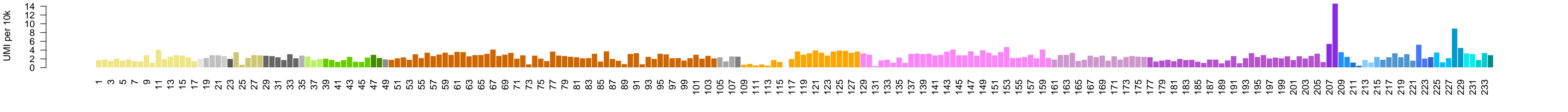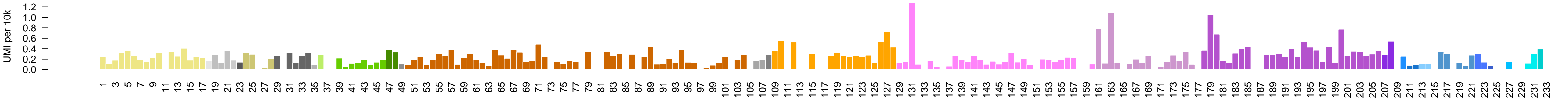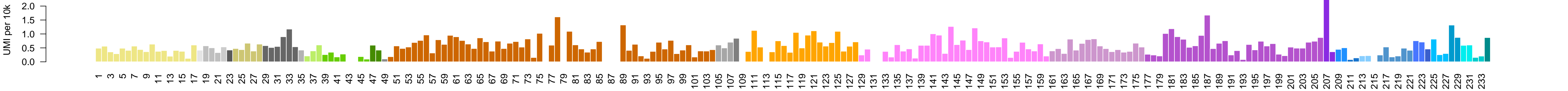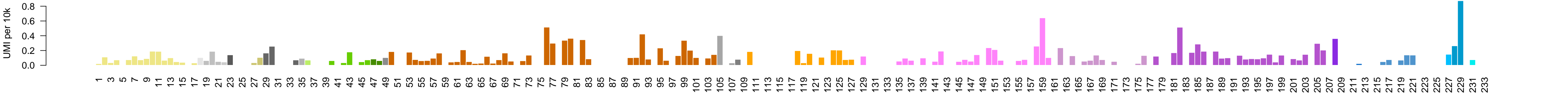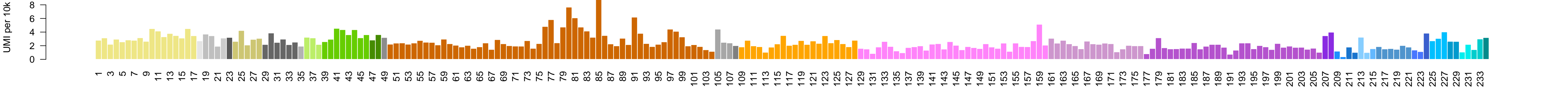**RRM.HG1.24:PABPC1/PABPC1L/PABPC1L2A/PABPC1L2B/PABPC3/PABPC4/PABPC4L/PABPC5**
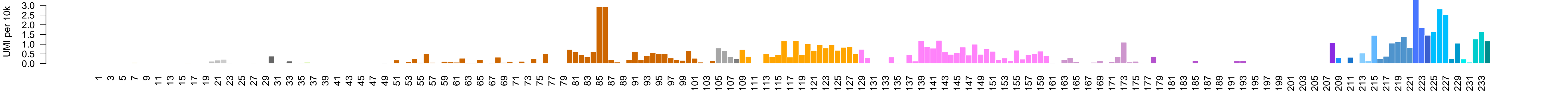**HoiH23_PIH23_003023**

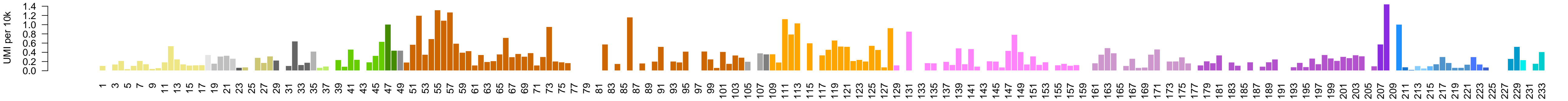RRM.HG1.24:PABPC1/PABPC1L/PABPC1L2A/PABPC1L2B/PABPC3/PABPC4/PABPC4L/PABPC5

HoiH23_PIH23_005226

RRM.HG1.26:TIA1/TIAL1
HoiH23_PIH23_003281
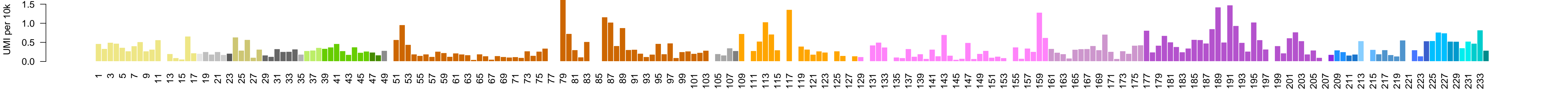
RRM.HG1.27:TRNAU1AP
HoiH23_PIH23_006126

RRM.HG1.28:NELFE
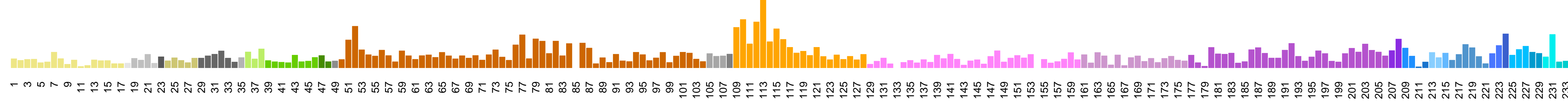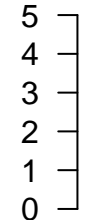**HoiH23_PIH23_007249**

RRM.HG1.29:like:NELFE/PPIE/PUF60/RBM23/RBM39/REXO5/SF3B4/TIA1/TIAL1/TRNAU1AP/U2SURP
HoiH23_PIH23_006715
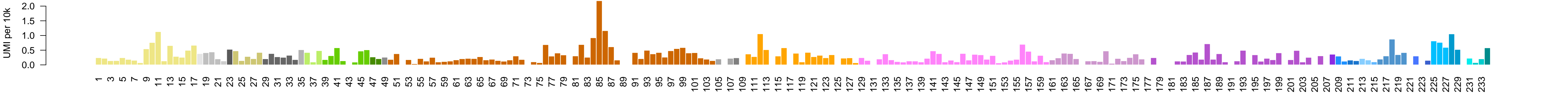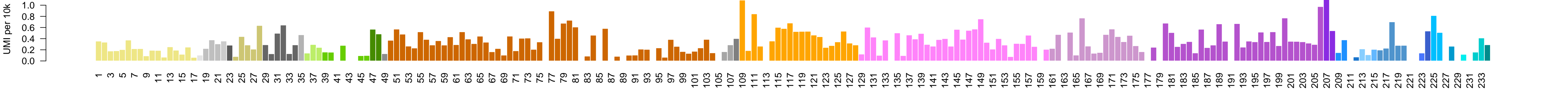
RRM.HG1.33:RBM23/RBM39
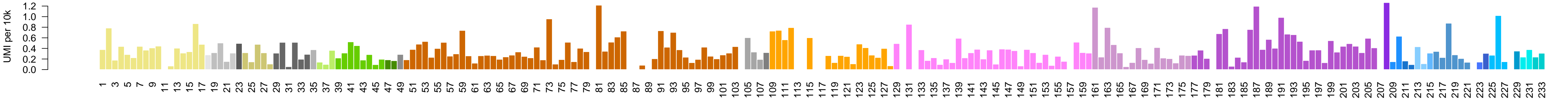HoiH23_PIH23_000715

RRM.HG1.36:U2SURP;SURP.HG1.0:U2SURP
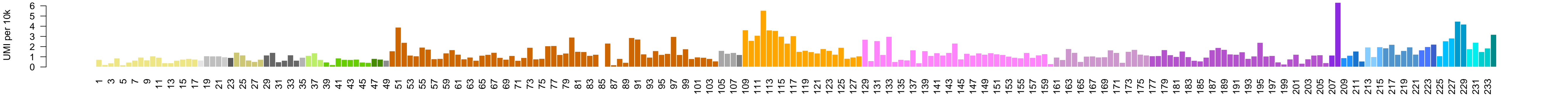HoiH23_PIH23_009634
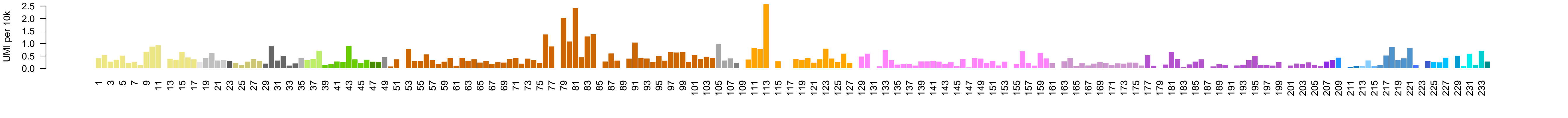
RRM.HG1.37:PPIE
HoiH23_PIH23_001076

RRM.HG1.39:PUF60
HoiH23_PIH23_007404

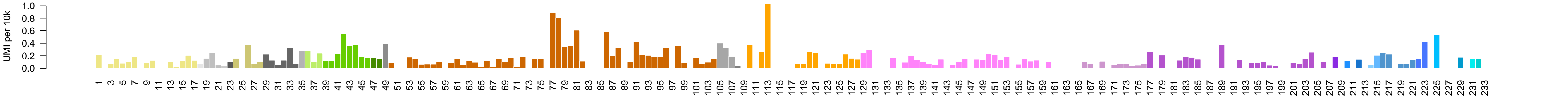**RRM.HG1.4:NONO/PSPC1/SFPQ**
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RRM.HG1.7:like:AP002373.1/HNRNPM/MYEF2/RBM7/RBM11
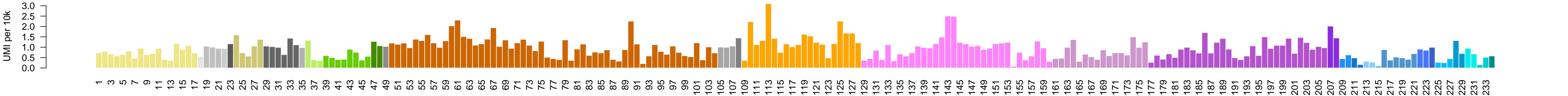**HoiH23_PIH23_009581**

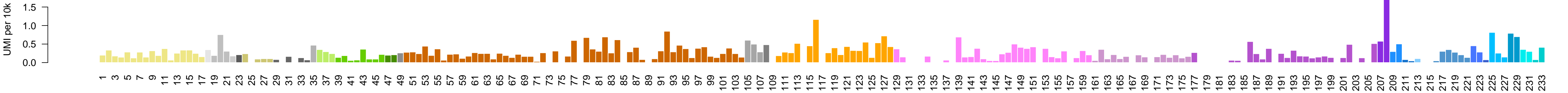RRM.HG1.9:like:PABPC1/PABPC1L/PABPC1L2A/PABPC1L2B/PABPC3/PABPC4/PABPC4L/PABPC5
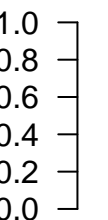
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RRM.HG10.0:BCL2L2−PABPN1/PABPN1/PABPN1L
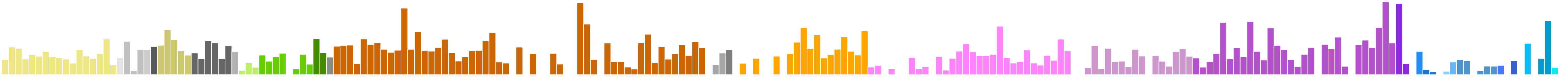HoiH23_PIH23_008035
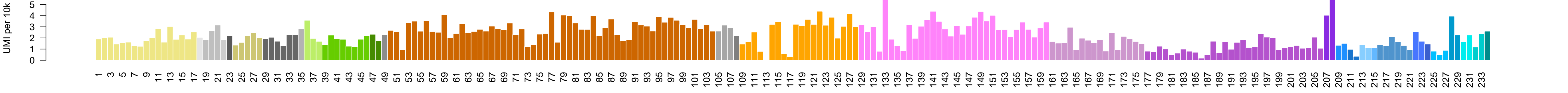
RRM.HG10.1:SREK1/SRSF11
HoiH23_PIH23_008851

RRM.HG10.3:like:RBM34
HoiH23_PIH23_009764

RRM.HG11.1:TRA2A/TRA2B
HoiH23_PIH23_003005

RRM.HG11.2:PPIL4
HoiH23_PIH23_007397
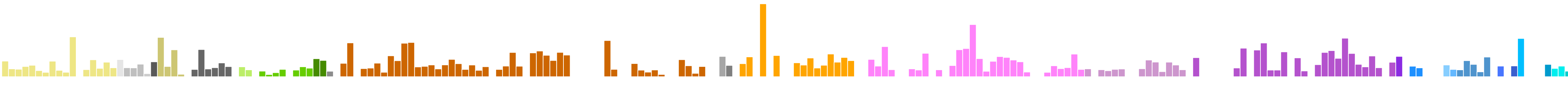
RRM.HG11.4:SNRNP70
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RRM.HG12.0:EIF4H
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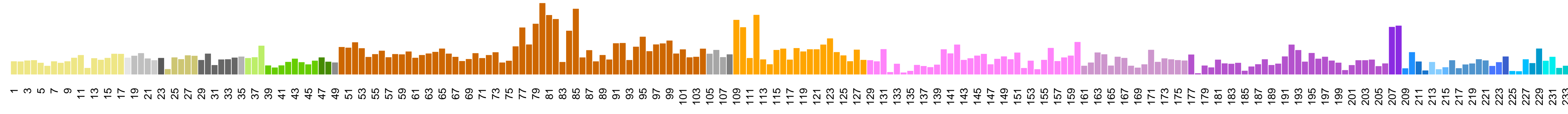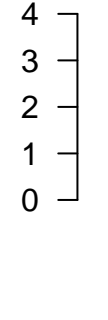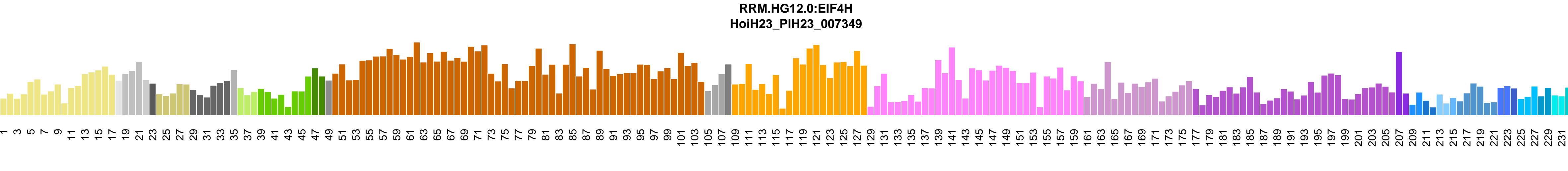
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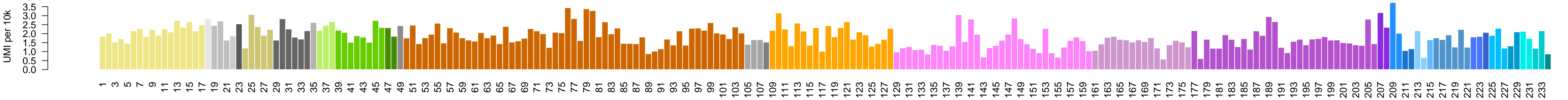
RRM.HG12.6:like:EIF4B
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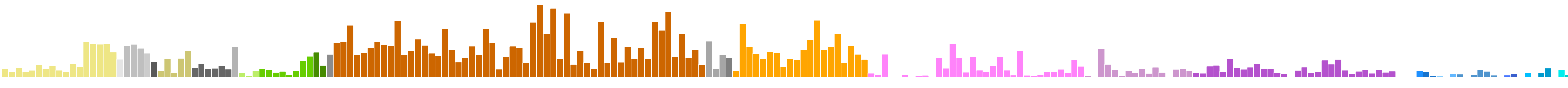
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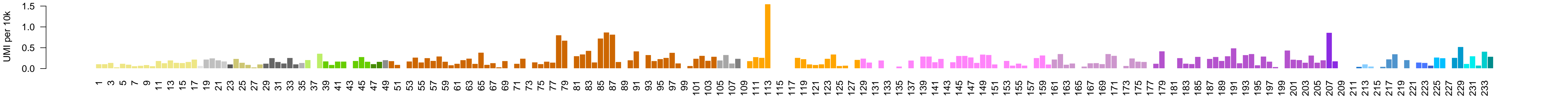
RRM.HG15.4:like:SCAF4/SCAF8
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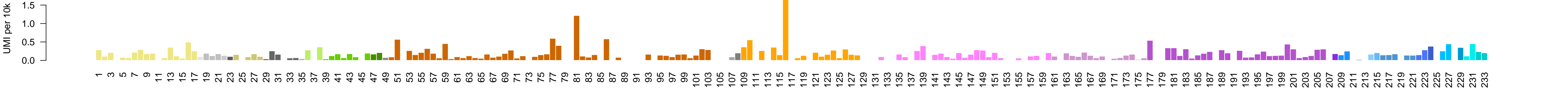
RRM.HG16.4:CPEB2/CPEB3/CPEB4
HoiH23_PIH23_003481

RRM.HG18.2:like:SPEN
HoiH23_PIH23_006841

RRM.HG19.4:like:A1CF/DND1/HNRNPR/RBM46/RBM47/SYNCRIP
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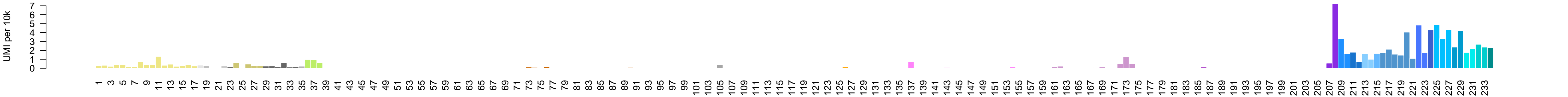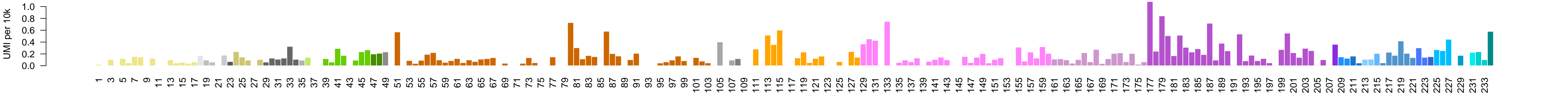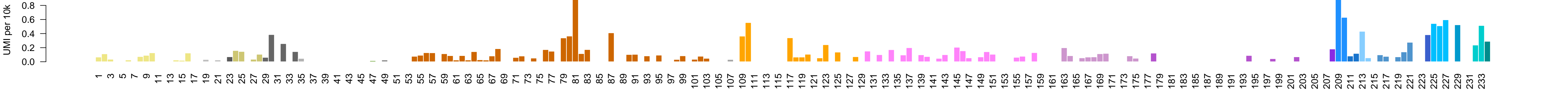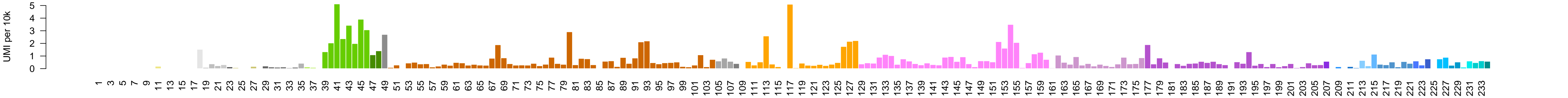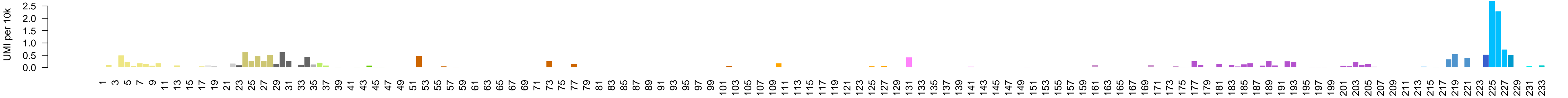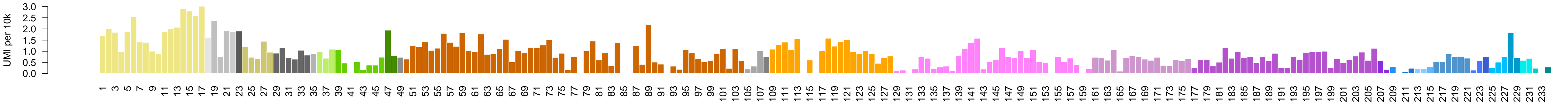
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HoiH23_PIH23_008395

RRM.HG2.0:RBM24/RBM38
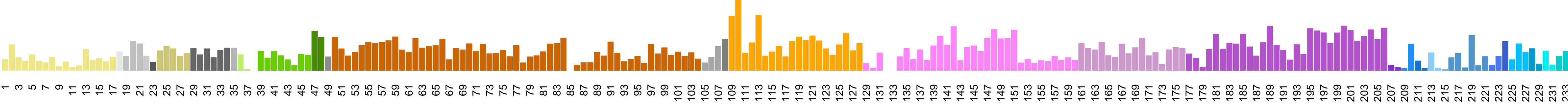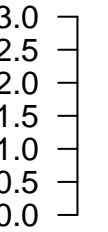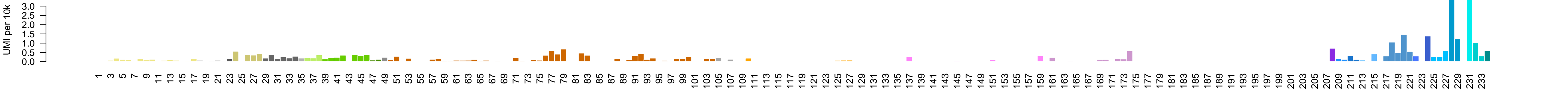**HoiH23_PIH23_005221**

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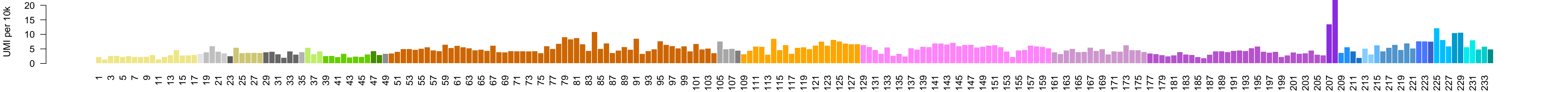
RRM.HG2.14:G3BP1/G3BP2
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RRM.HG2.21:like:DAZAP1/HNRNPAB/HNRNPD/HNRNPDL/MSI1/MSI2
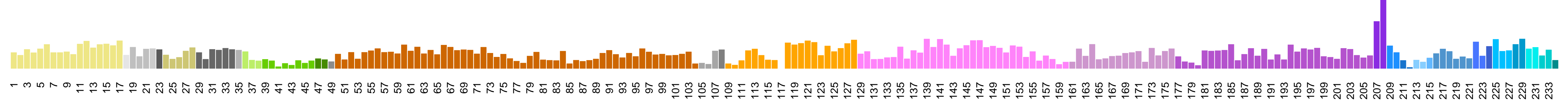HoiH23_PIH23_006584
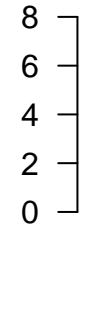
RRM.HG2.22:like:DAZAP1/HNRNPAB/HNRNPD/HNRNPDL/MSI1/MSI2
HoiH23_PIH23_009089

RRM.HG2.23:HNRNPAB/HNRNPD/HNRNPDL
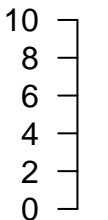HoiH23_PIH23_001616

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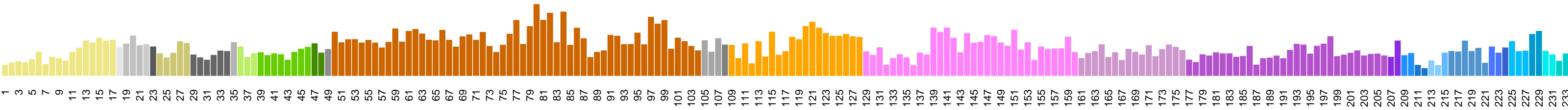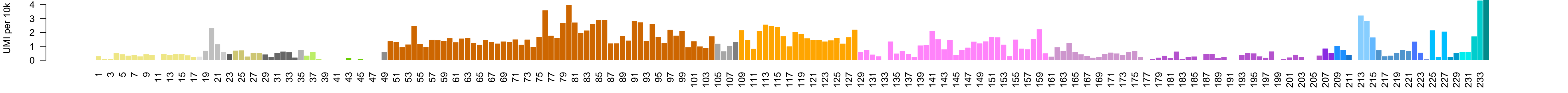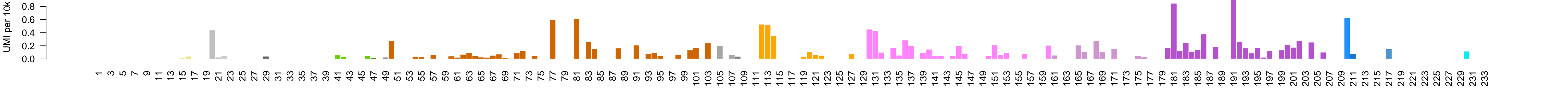HoiH23_PIH23_001141

RRM.HG2.25:MSI1/MSI2
HoiH23_PIH23_000647

RRM.HG2.3:like:G3BP1/G3BP2/NOL8
HoiH23_PIH23_006125

RRM.HG2.9:like:RBM3
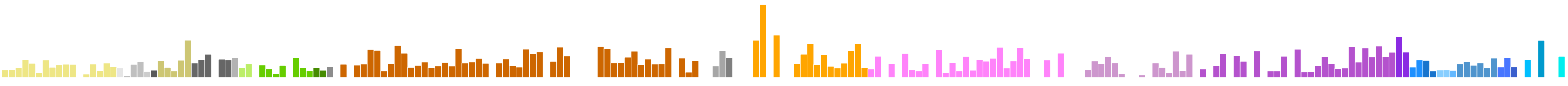HoiH23_PIH23_002334
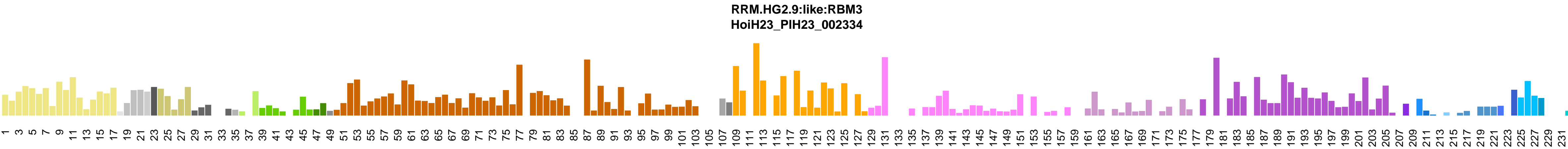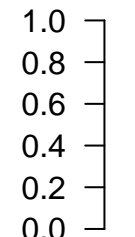
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RRM.HG20.1:ALYREF
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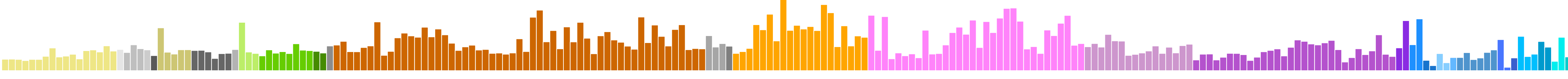
RRM.HG21.1:HTATSF1
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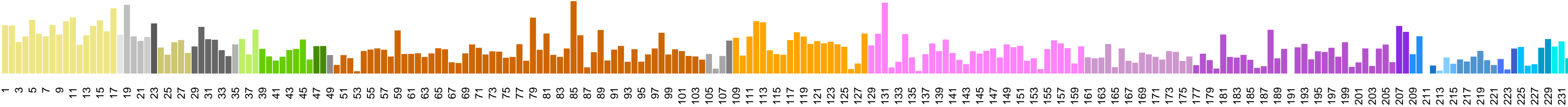
RRM.HG22.0:ZRSR2;zf−CCCH.HG3.1:AD000671.2/U2AF1/U2AF1L4/U2AF1L5/ZRSR2
HoiH23_PIH23_006403
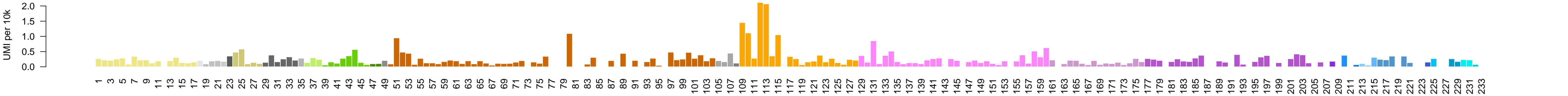
RRM.HG22.2:U2AF1/U2AF1L4/U2AF1L5;zf−CCCH.HG3.1:AD000671.2/U2AF1/U2AF1L4/U2AF1L5/ZRSR2
HoiH23_PIH23_008429

RRM.HG23.0:EIF3B
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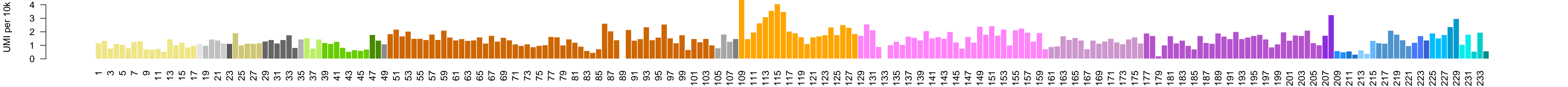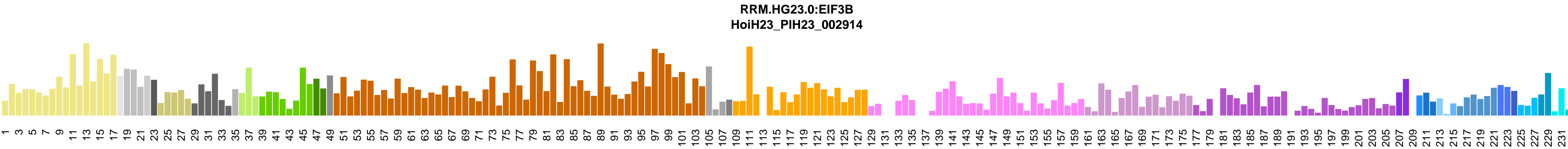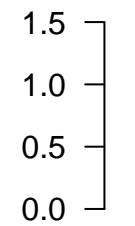
RRM.HG24.0:PRPF8
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RRM.HG26.0:RBM5/RBM10
HoiH23_PIH23_004223
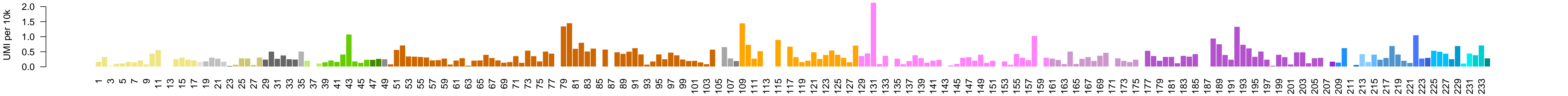
RRM.HG27.0:BRAP
HoiH23_PIH23_010232

RRM.HG28.0:NUP35
HoiH23_PIH23_002097

RRM.HG29.0:RBPMS/RBPMS2
HoiH23_PIH23_006631

RRM.HG3.12:GRSF1/HNRNPF/HNRNPH1/HNRNPH2/HNRNPH3
HoiH23_PIH23_005931

RRM.HG3.4:RBM28
HoiH23_PIH23_007426
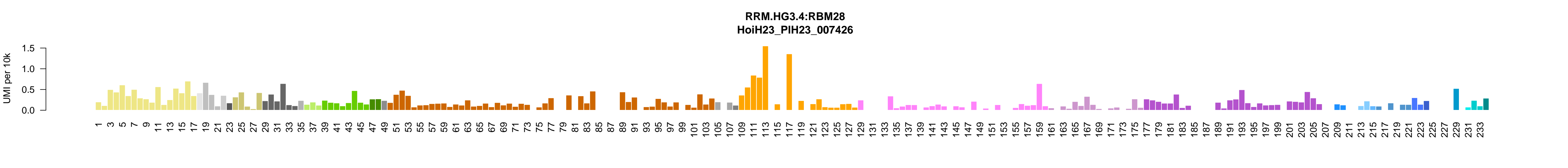
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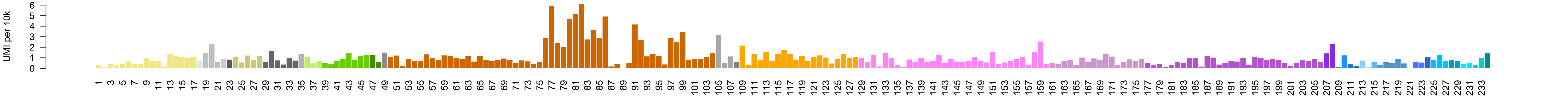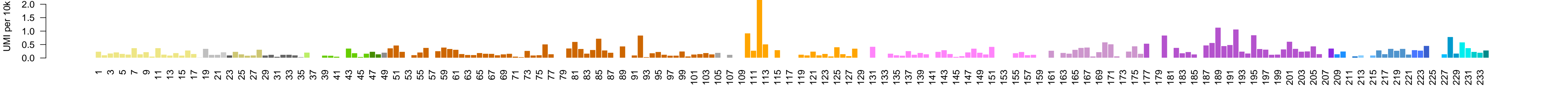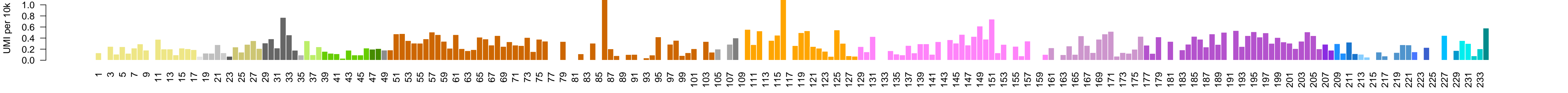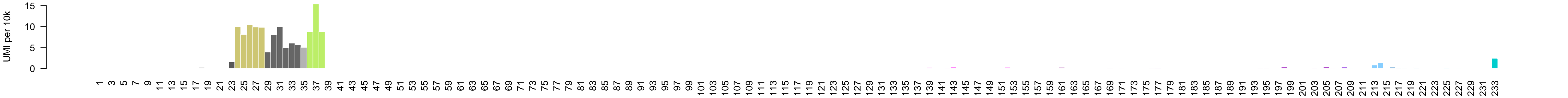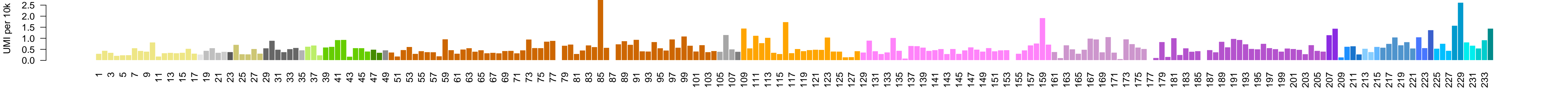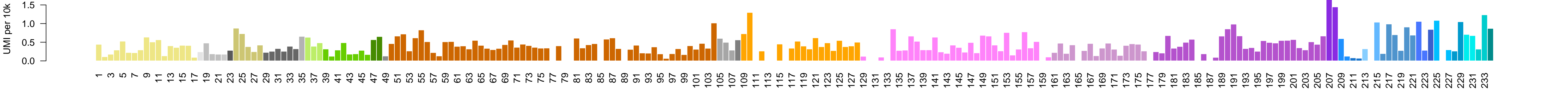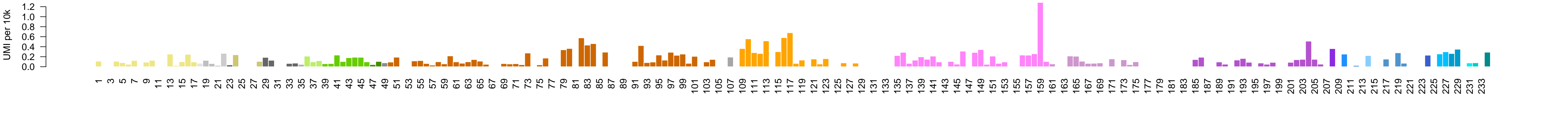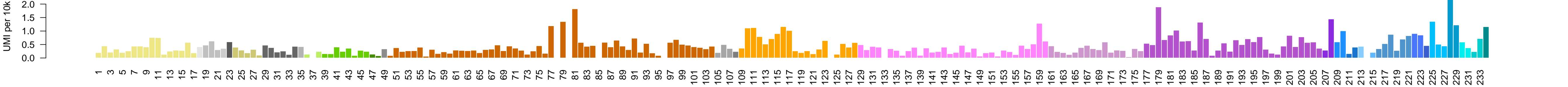HoiH23_PIH23_003085
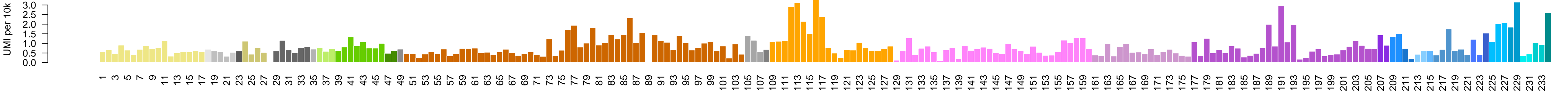
RRM.HG3.8:RBFOX1/RBFOX2/RBFOX3
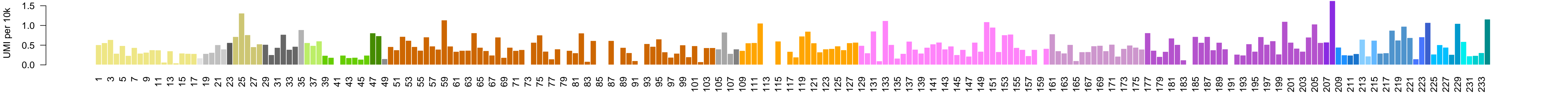**HoiH23_PIH23_002908**

RRM.HG30.0:SETD1A/SETD1B
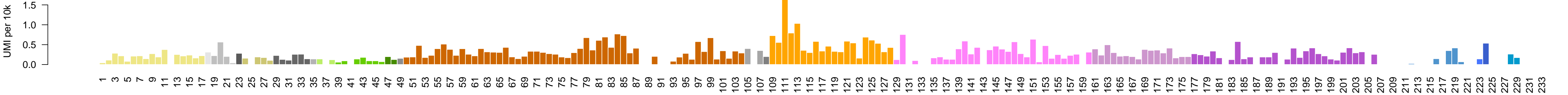**HoiH23_PIH23_005803**

RRM.HG31.0:CNOT4
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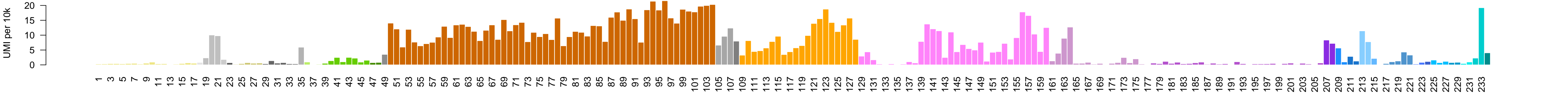
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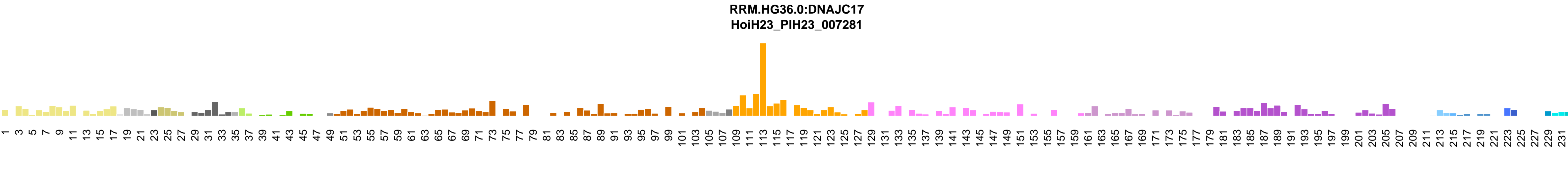
RRM.HG33.0:PARN
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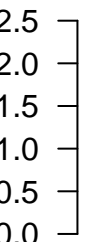**RRM.HG35.0:RRP7A**
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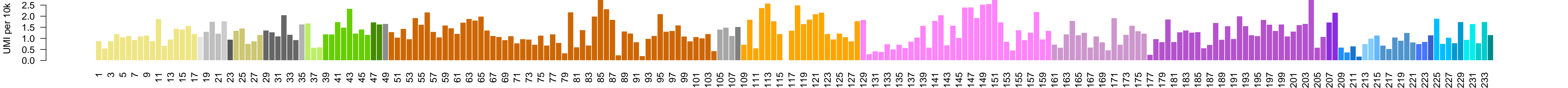
RRM.HG36.0:DNAJC17
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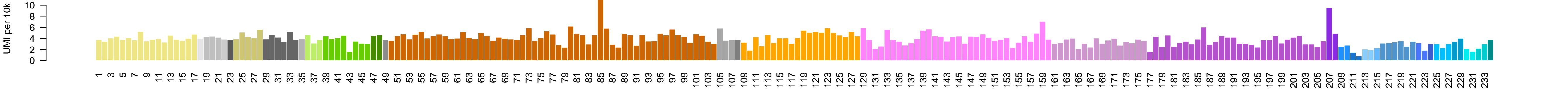
RRM.HG4.5:AC015813.2/SRSF1/SRSF9
HoiH23_PIH23_007912

RRM.HG4.8:AL031681.2/SRSF4/SRSF5/SRSF6
HoiH23_PIH23_003229

RRM.HG4.8:AL031681.2/SRSF4/SRSF5/SRSF6
HoiH23_PIH23_008789

RRM.HG42.0:NA
HoiH23_PIH23_005083

RRM.HG48.0:RDM1
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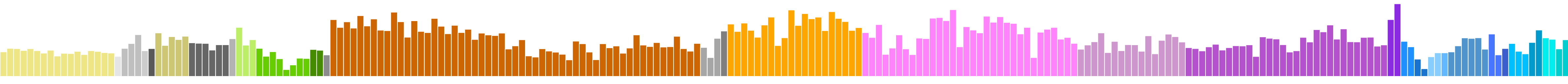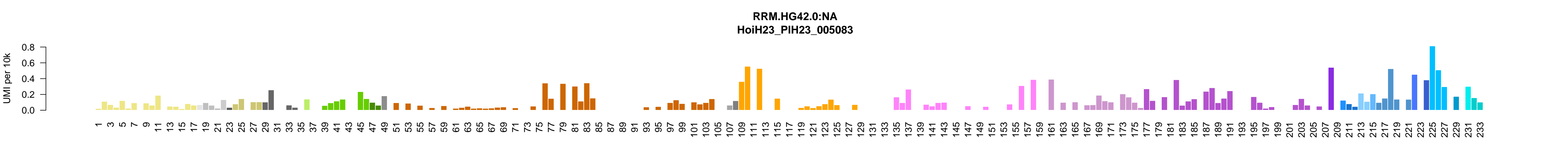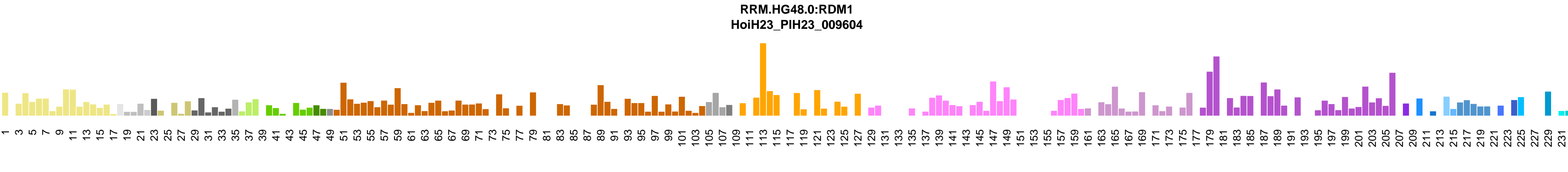
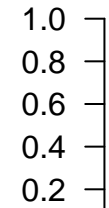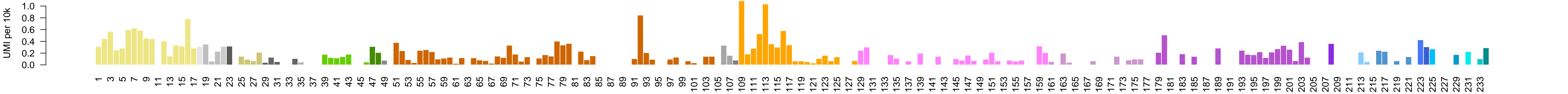RRM.HG49.0:NA
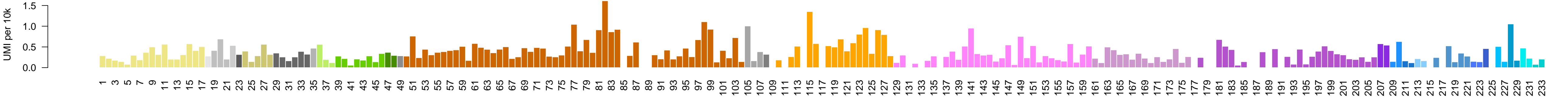HoiH23_PIH23_002993

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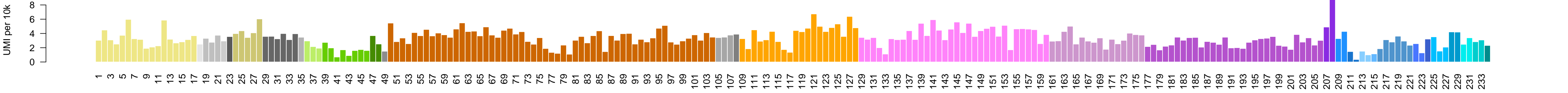
RRM.HG5.11:U2AF2
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RRM.HG5.4:CSTF2/CSTF2T
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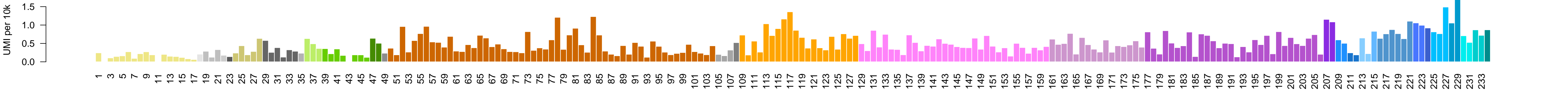
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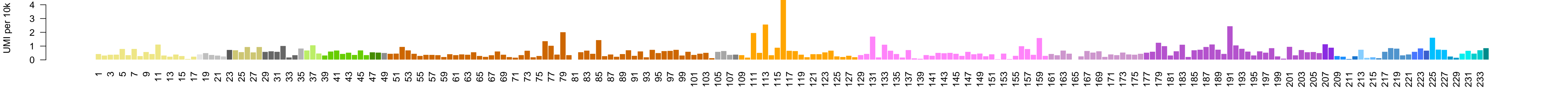
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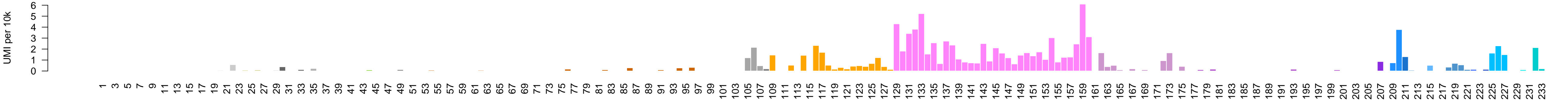
RRM.HG6.6:RBMS1/RBMS2/RBMS3
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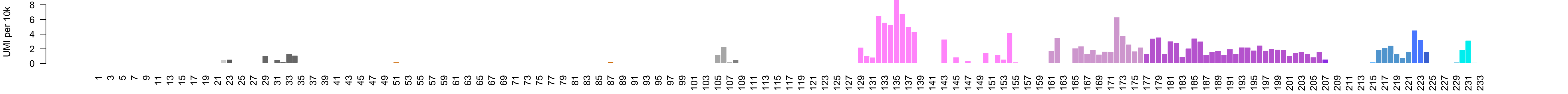
RRM.HG6.9:ELAVL1/ELAVL2/ELAVL3/ELAVL4
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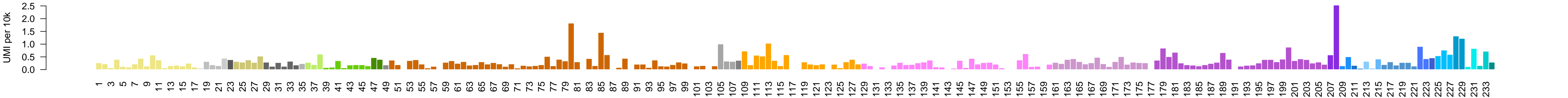
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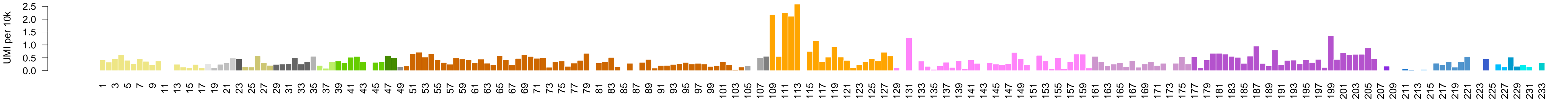
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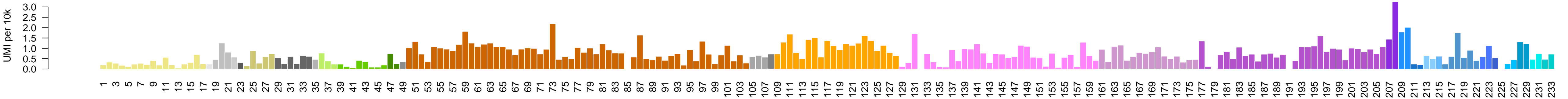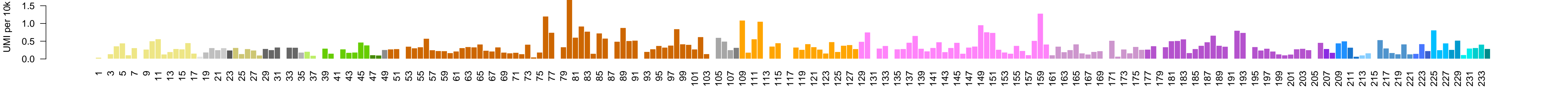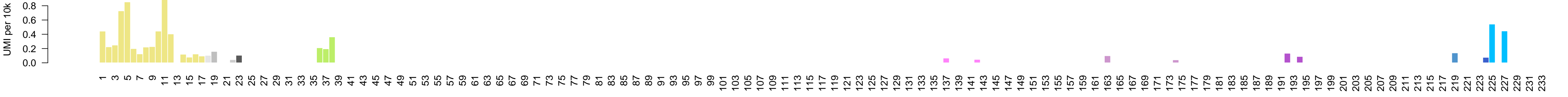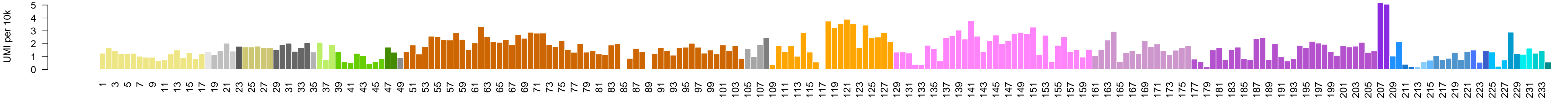HoiH23_PIH23_010589

RRM.HG7.4:SAFB/SAFB2/SLTM
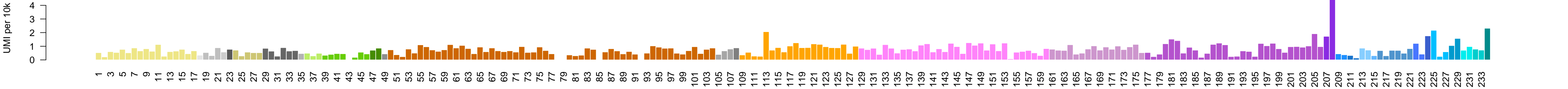HoiH23_PIH23_010624

RRM.HG7.5:RBM45
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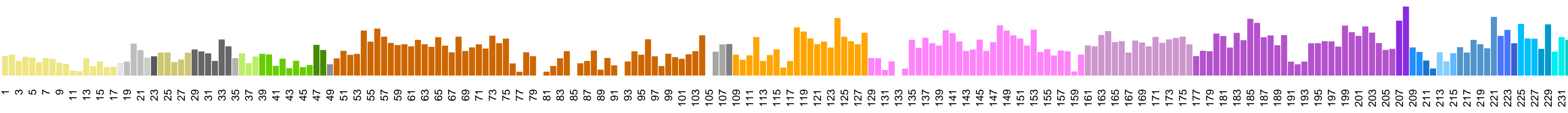
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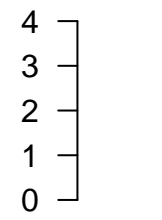
RRM.HG8.2:NCBP2/NCBP2L
HoiH23_PIH23_009477

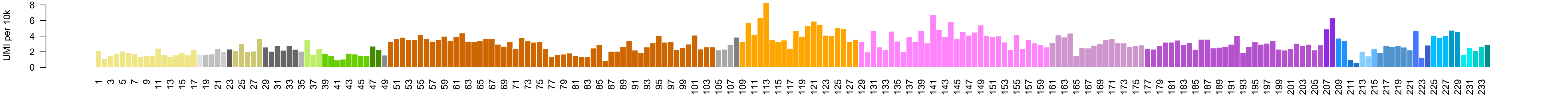**RRM.HG8.6:SF3B6**
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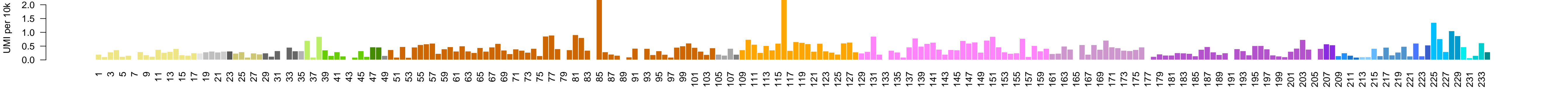
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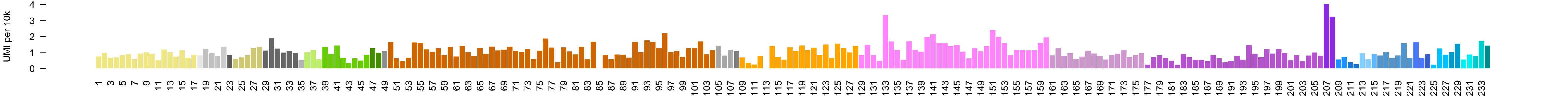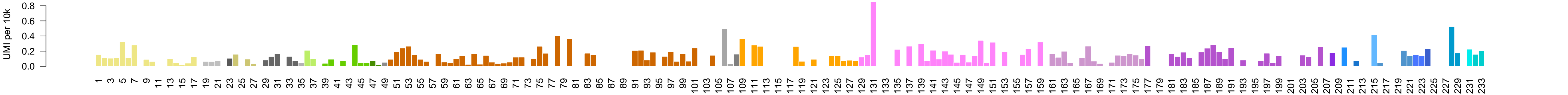
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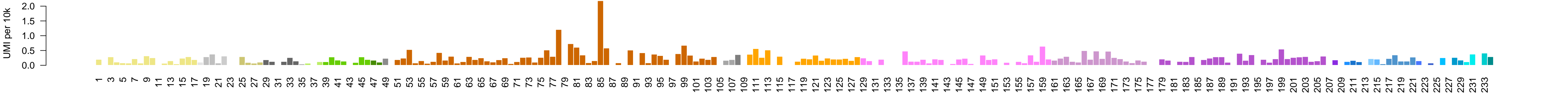
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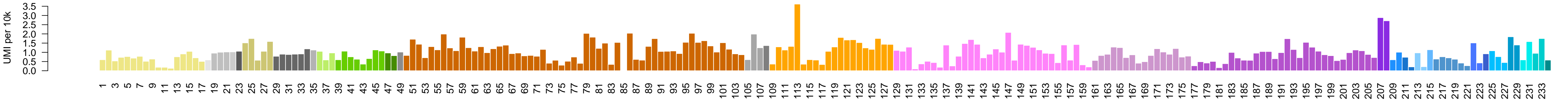
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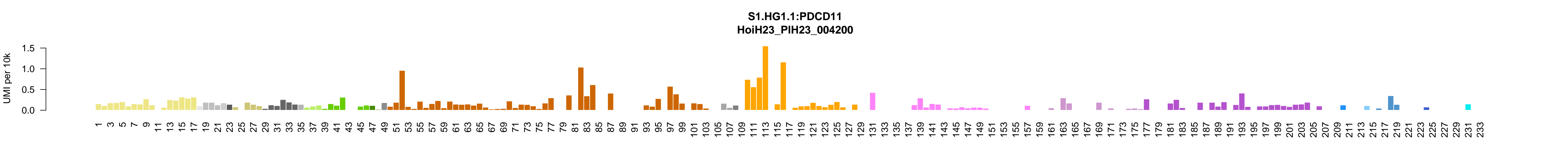
RRM.Unclassified
HoiH23_PIH23_006988

RRM.Unclassified
HoiH23_PIH23_007319

S1.HG1.1:PDCD11
HoiH23_PIH23_004200

S1.HG1.11:DHX8
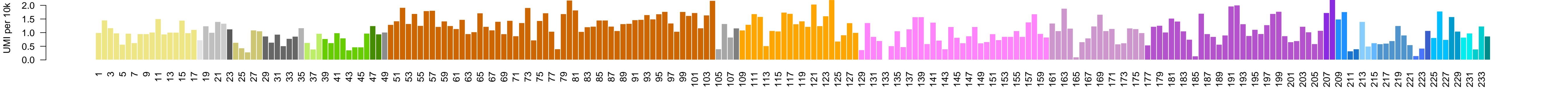**HoiH23_PIH23_010604**
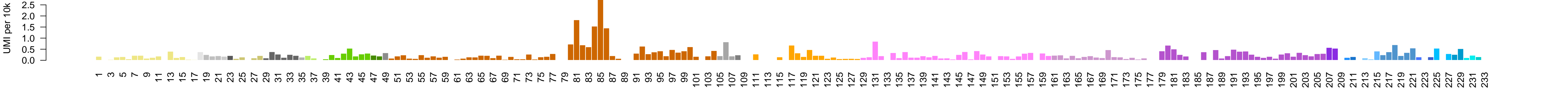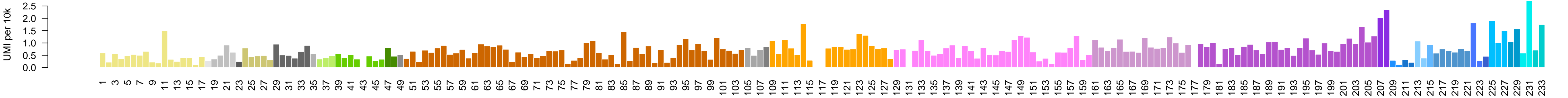
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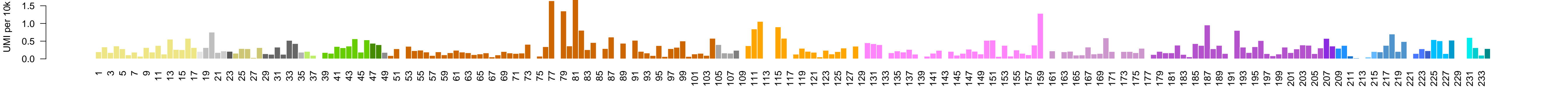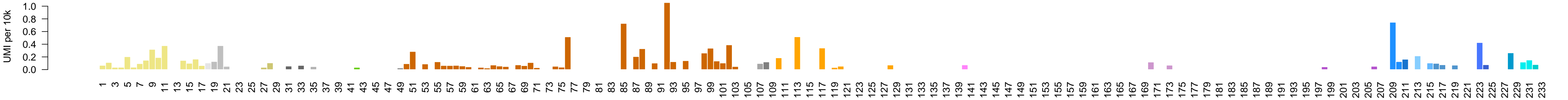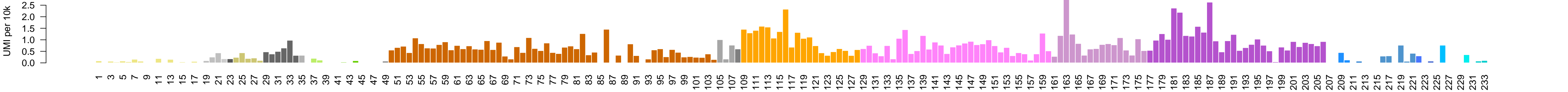
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S1.HG2.0:POLR2G
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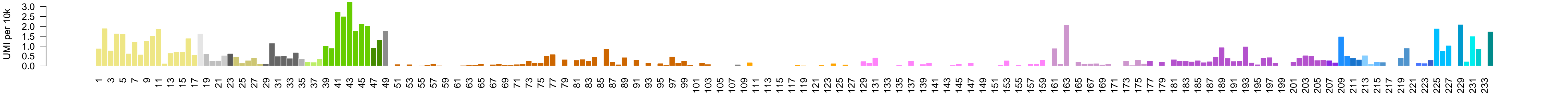
SAM.HG1.17:CASKIN1/CASKIN2
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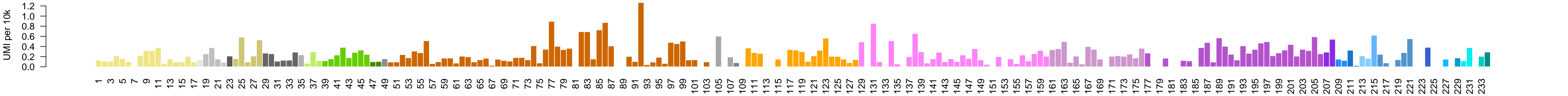
SAM.HG1.18:ANKS1A/ANKS1B
HoiH23_PIH23_001227

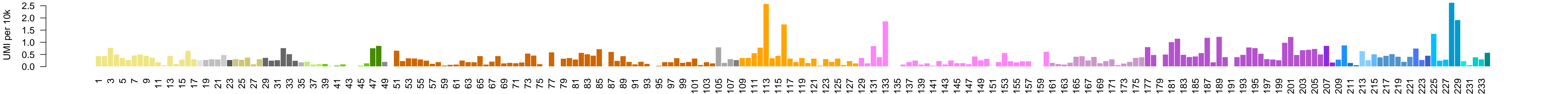SAM.HG1.6:like:EPHA1/EPHA2/EPHA3/EPHA4/EPHA5/EPHA6/EPHA7/EPHA8/EPHA10/EPHB1/EPHB2/EPHB3/EPHB4/EPHB6

HoiH23_PIH23_009212

SAM.HG12.1:STIM1/STIM2
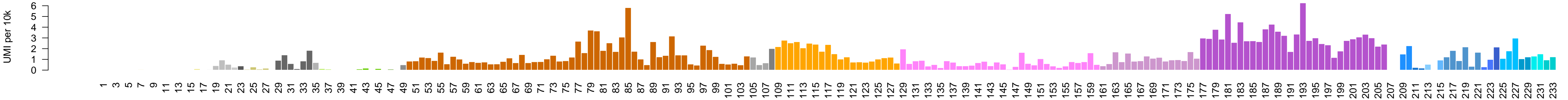HoiH23_PIH23_006720

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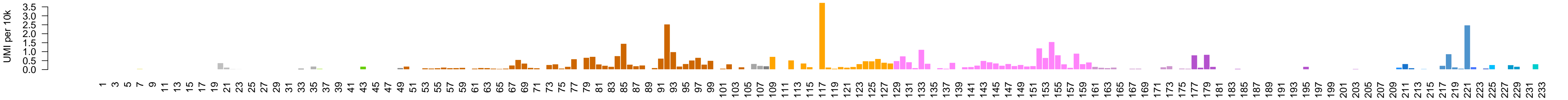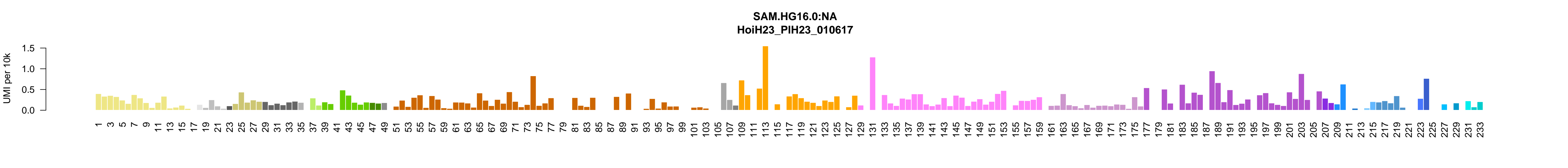HoiH23_PIH23_004580

SAM.HG14.1:EPS8/EPS8L1/EPS8L2/EPS8L3
HoiH23_PIH23_010755

SAM.HG15.0:like:SARM1
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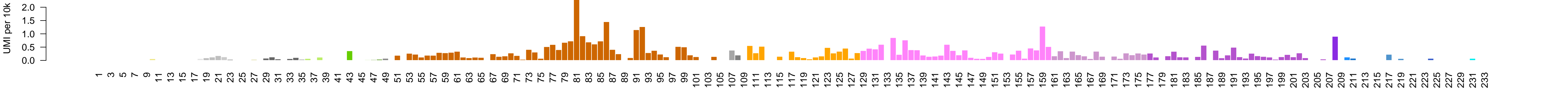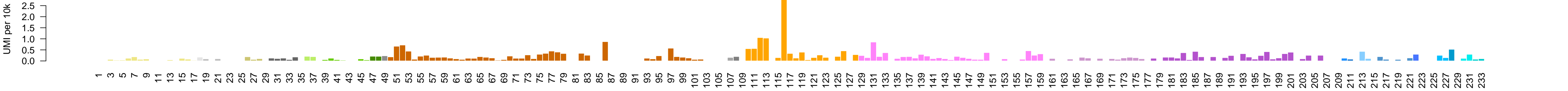
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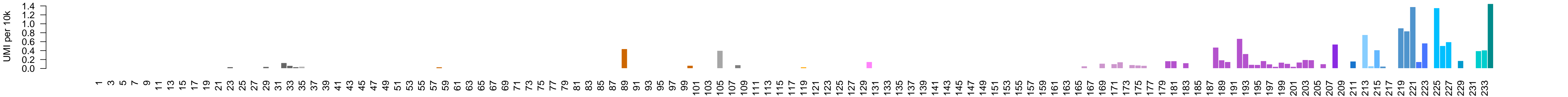
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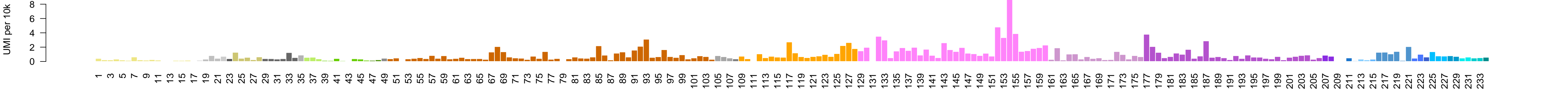
SAM.HG2.11:like:SAMD10/SAMD12/WDSUB1
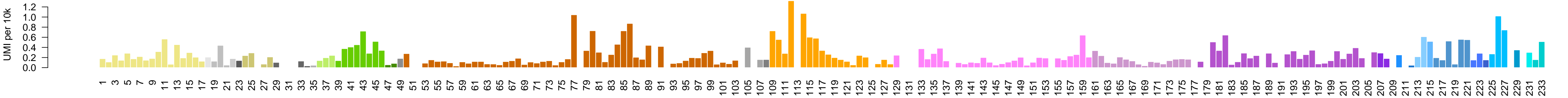HoiH23_PIH23_000367

SAM.HG2.15:like:WDSUB1
HoiH23_PIH23_001036

SAM.HG2.16:like:SAMD10/SAMD12
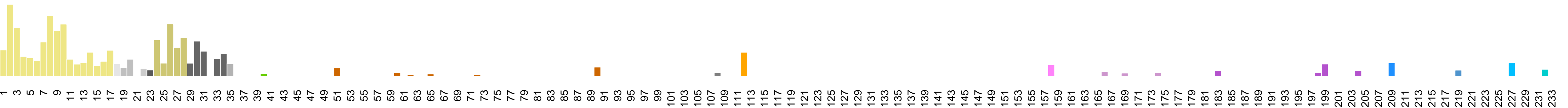HoiH23_PIH23_006784

SAM.HG2.19:like:SAMD10/SAMD12
HoiH23_PIH23_010320

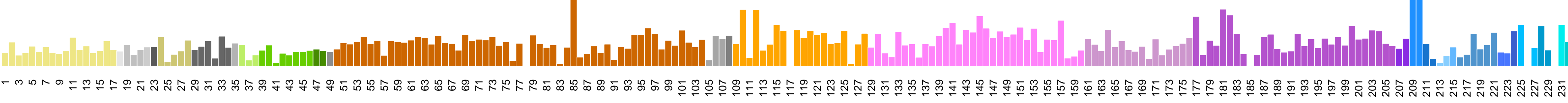**SAM.HG2.21:like:SAMD10/SAMD12**
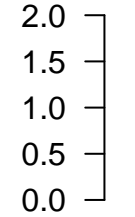**HoiH23_PIH23_000013**

SAM.HG22.0:NA
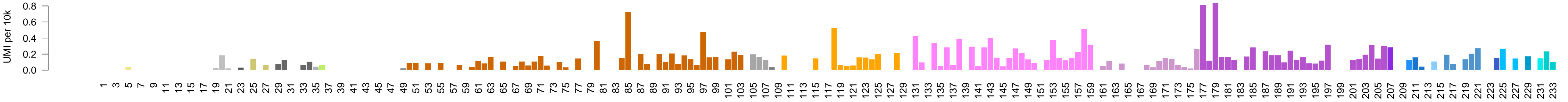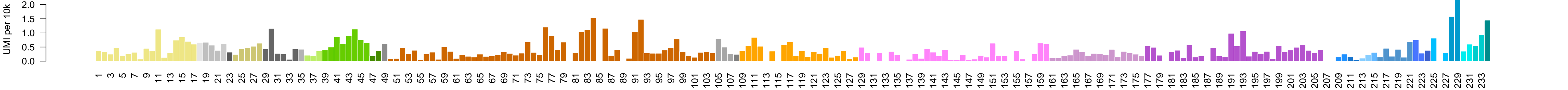HoiH23_PIH23_010575

SAM.HG3.0:LRSAM1
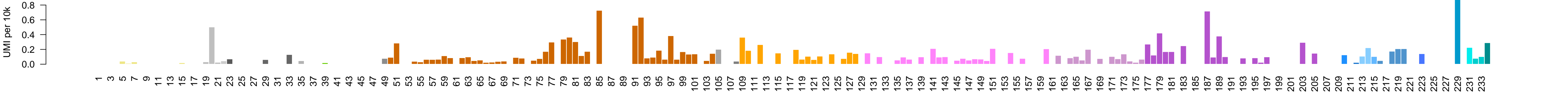**HoiH23_PIH23_003610**
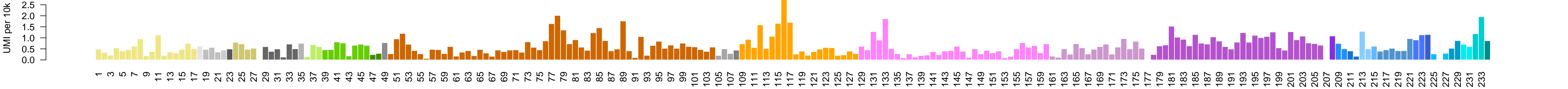
SAM.HG3.11:ANKS3
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SAM.HG3.12:BICC1
HoiH23_PIH23_007661

SAM.HG3.14:ANKS6
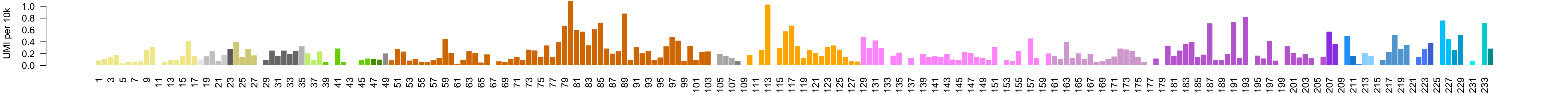**HoiH23_PIH23_005494**

SAM.HG3.5:SEC23IP
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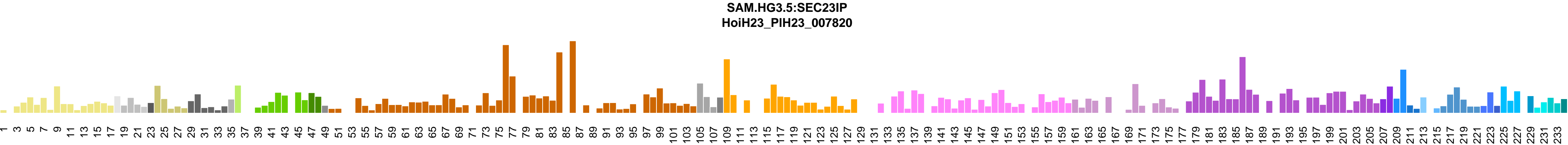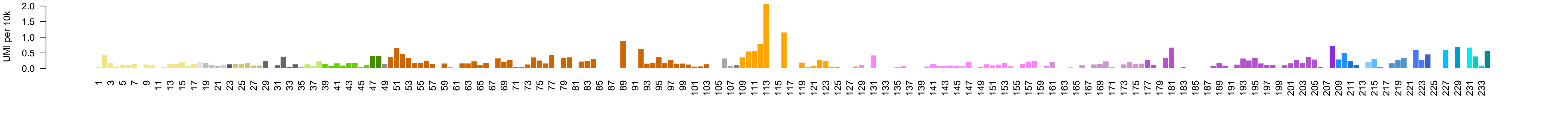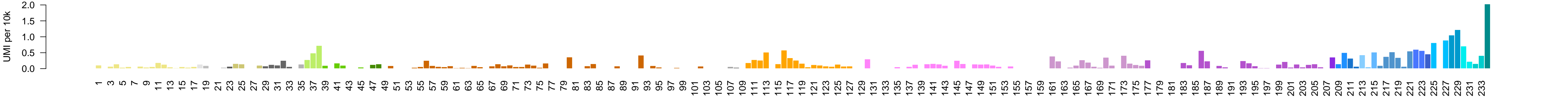
SAM.HG4.14:SCMH1/SCML1/SCML2/SCML4
HoiH23_PIH23_004348

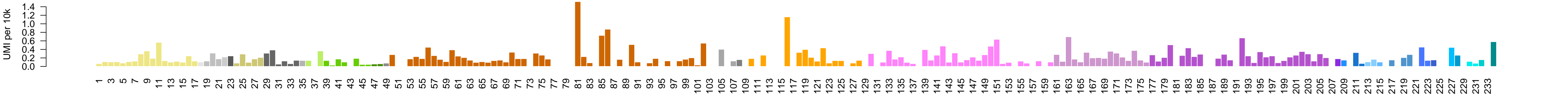SAM.HG4.3:SAMD1/SAMD13
HoiH23_PIH23_009958

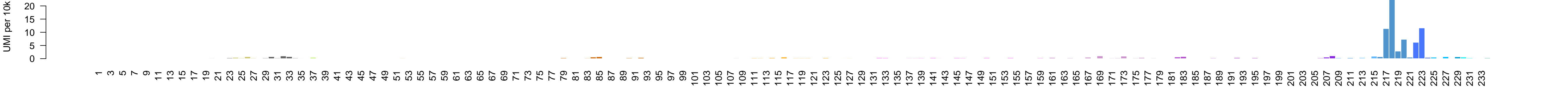SAM.HG4.4:L3MBTL3/L3MBTL4
HoiH23_PIH23_002845

SAM.HG4.7:like:L3MBTL3/L3MBTL4/PHC1/PHC2/PHC3/SAMD1/SAMD7/SAMD9/SAMD11/SAMD13/SCMH1/SCML1/SCML2/SCML4/SFMBT1/SFMBT2
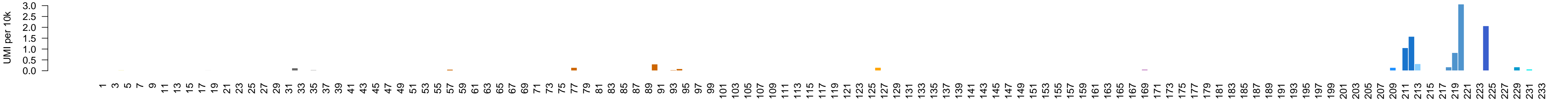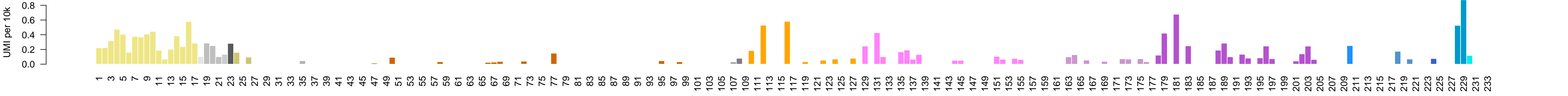
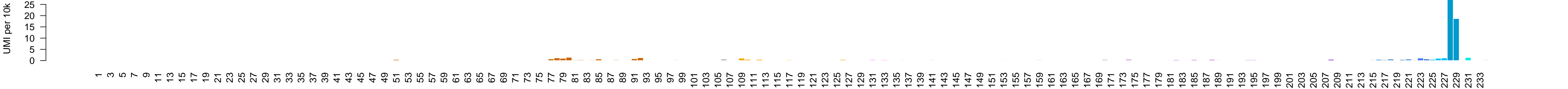HoiH23_PIH23_001338

SAM.HG6.5:GABPA
HoiH23_PIH23_009665

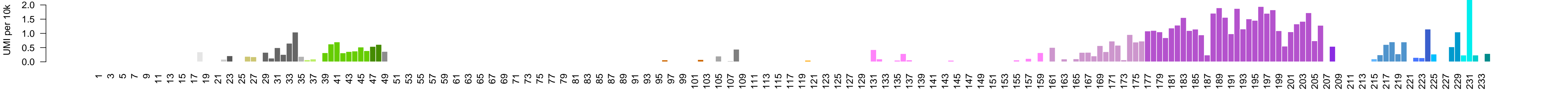**SAM.HG6.6:ETS1/ETS2**
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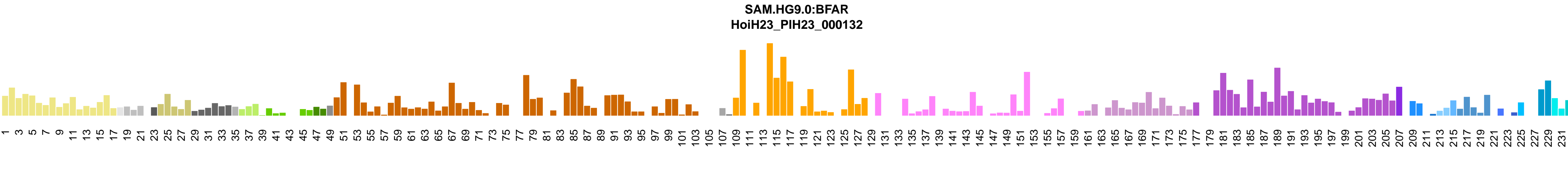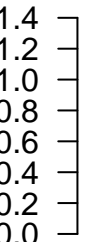
SAM.HG7.0:PPFIBP1/PPFIBP2
HoiH23_PIH23_005415

SAM.HG7.3:PPFIA1/PPFIA2/PPFIA3/PPFIA4
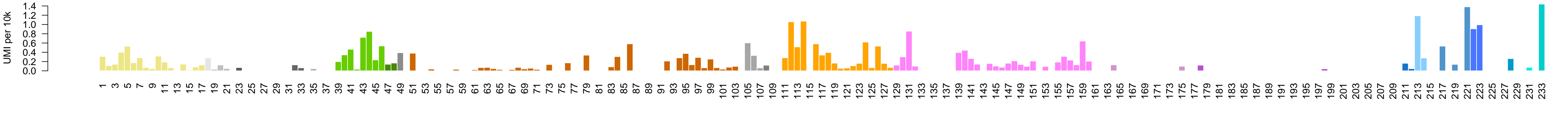HoiH23_PIH23_009857

SAM.HG8.2:SAMD5
HoiH23_PIH23_009745

SAM.HG9.0:BFAR
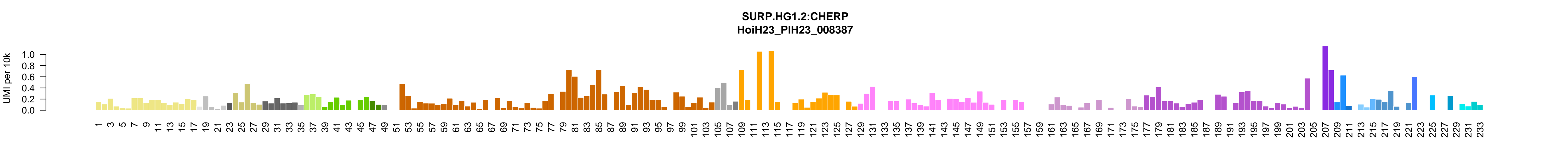HoiH23_PIH23_000132

SAM.HG9.2:SAMD8
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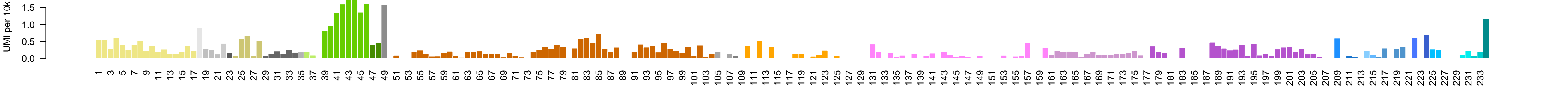
SAM.Unclassified
HoiH23_PIH23_003887

SAM.Unclassified
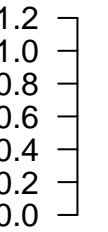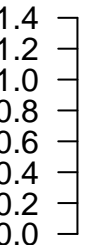**HoiH23_PIH23_005747**

SURP.HG1.2:CHERP
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SURP.HG1.4:SF3A1
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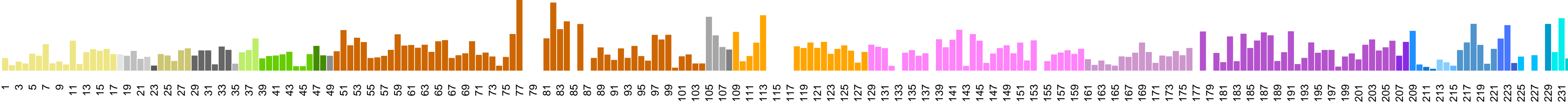
SURP.HG1.5:SFSWAP
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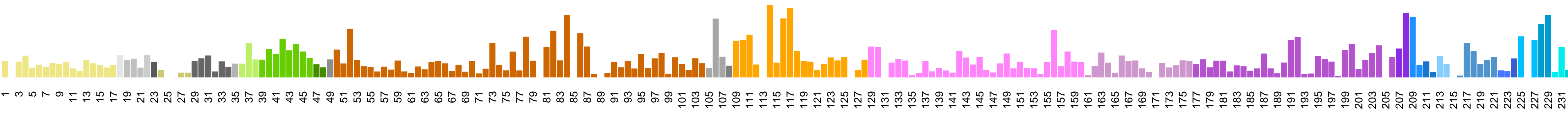
THUMP.HG1.0:THUMPD1
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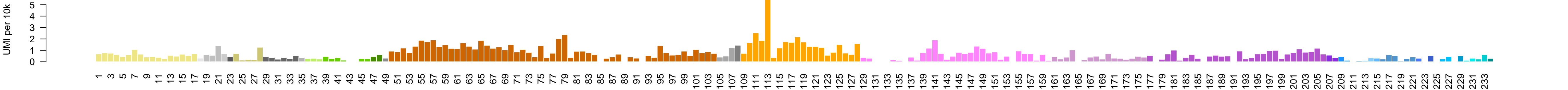
TROVE.HG2.1:like:TEP1
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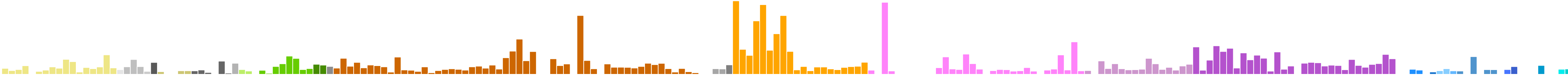
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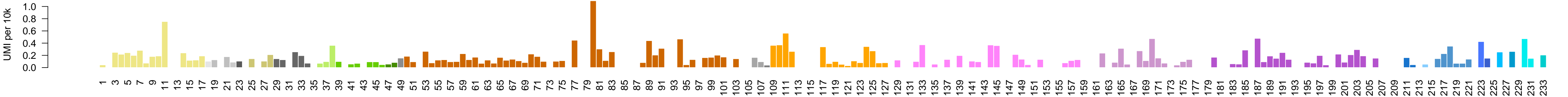
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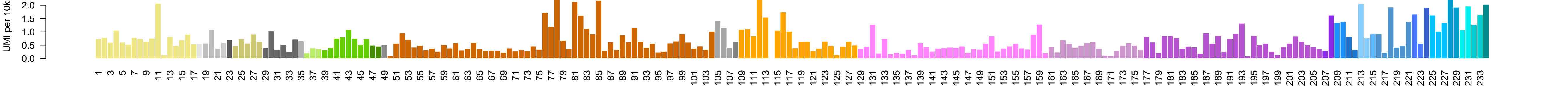
zf-CCCH.HG1.14:PPP1R10/PRR3
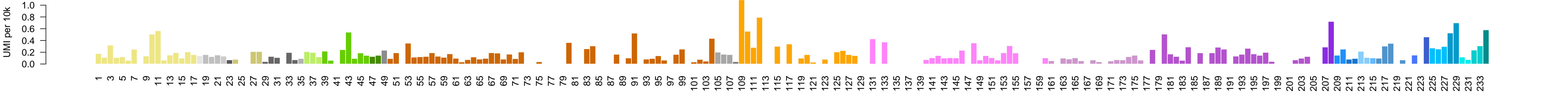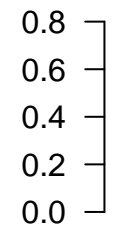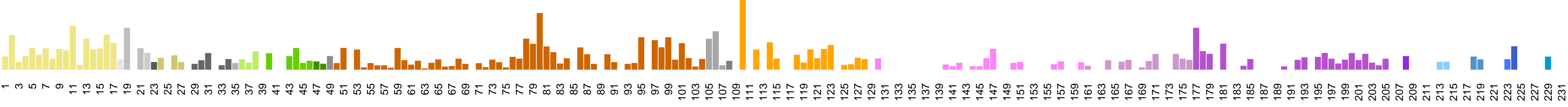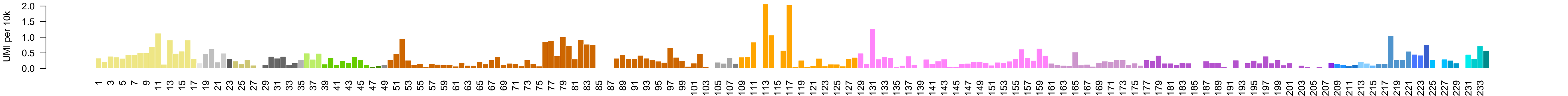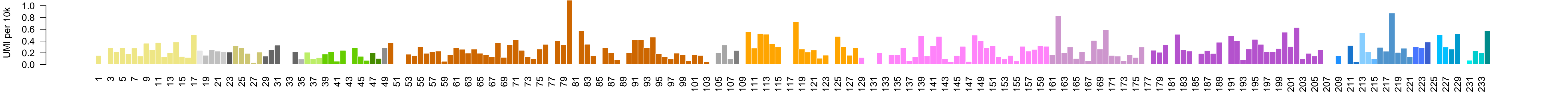HoiH23_PIH23_006560

zf−CCCH.HG1.7:DUS3L
HoiH23_PIH23_004031

zf−CCCH.HG2.0:like:AC091959.1/HELZ/RBM27/RC3H1/RC3H2/RNF113A/RNF113B/UNK/UNKL/ZC3H7A/ZC3H7B/ZC3H13/ZFP36/ZFP36L1/ZFP36L2/ZMAT5
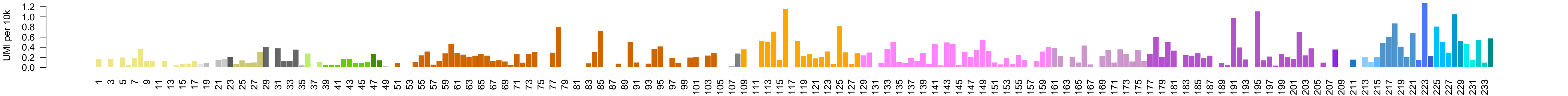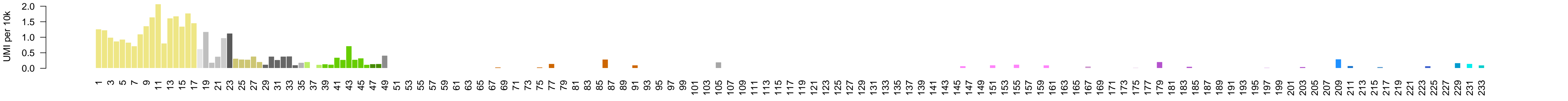
HoiH23_PIH23_003121

zf−CCCH.HG2.4:ZFP36/ZFP36L1/ZFP36L2
HoiH23_PIH23_009711

zf−CCCH.HG2.5:like:RNF113A/RNF113B
HoiH23_PIH23_003799

zf−CCCH.HG2.8:RNF113A/RNF113B
HoiH23_PIH23_011548

zf−CCCH.HG4.1:MBNL1/MBNL2/MBNL3
HoiH23_PIH23_002368

zf–nanos.HG1.1:NANOS1/NANOS2/NANOS3
HoiH23_PIH23_008261