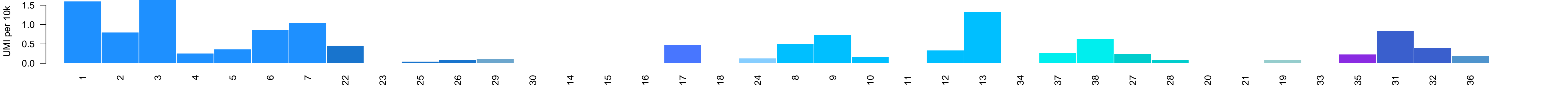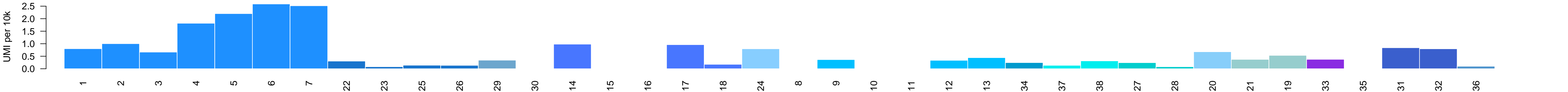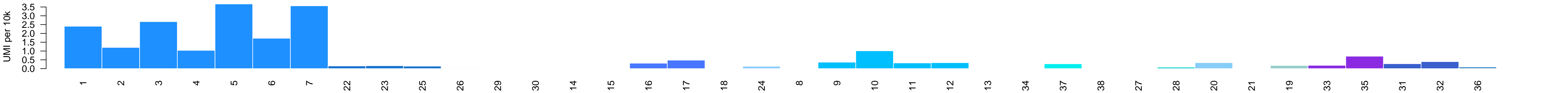**Aa_trans.HG1.12:SLC36A1/SLC36A2/SLC36A3/SLC36A4**
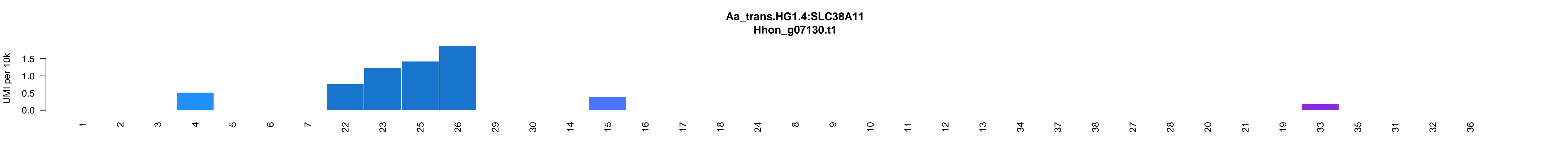**Hhon_g05836.t1**

Aa_trans.HG1.14:SLC38A10
Hhon_g03836.t1

Aa_trans.HG1.16:like:SLC36A1/SLC36A2/SLC36A3/SLC36A4
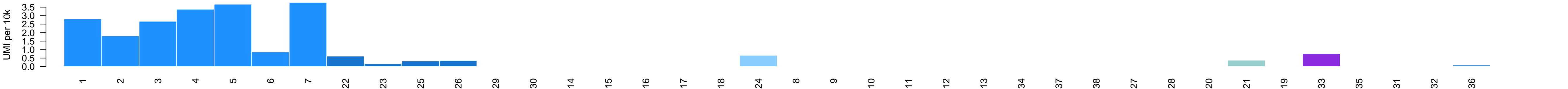**Hhon_g03002.t1**
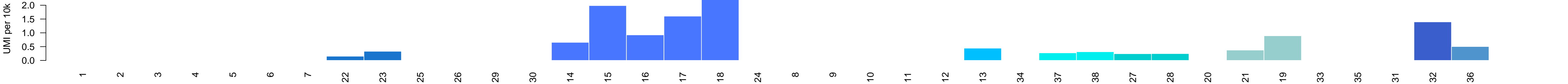
Aa_trans.HG1.2:SLC38A9
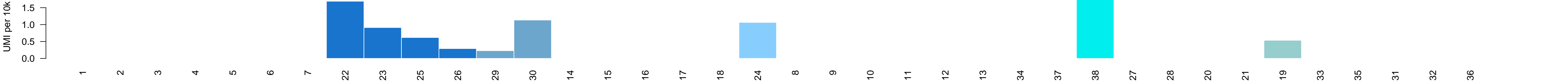Hhon_g00767.t1

Aa_trans.HG1.4:SLC38A11
Hhon_g07130.t1

Aa_trans.HG1.4:SLC38A11
Hhon_g07132.t1

Aa_trans.HG1.4:SLC38A11
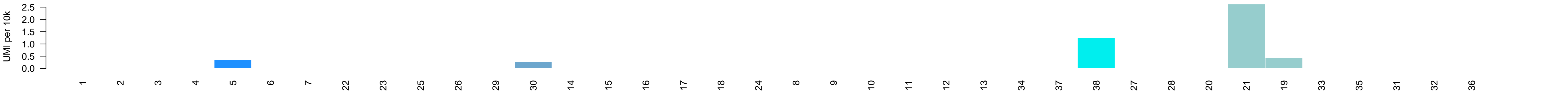**Hhon_g07133.t1**

ANF_receptor.HG1.18:like:GRM1/GRM2/GRM3/GRM4/GRM5/GRM6/GRM7/GRM8
Hhon_g05852.t1

ANF_receptor.HG1.2:like:CASR/GPRC6A/TAS1R1/TAS1R2/TAS1R3
Hhon_g05228.t1

ANF_receptor.HG1.2:like:CASR/GPRC6A/TAS1R1/TAS1R2/TAS1R3
Hhon_g05229.t1

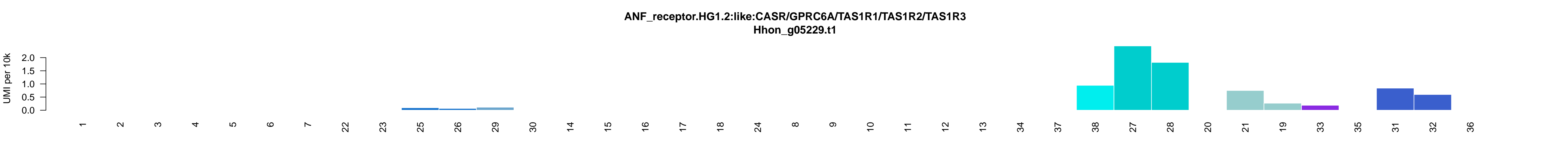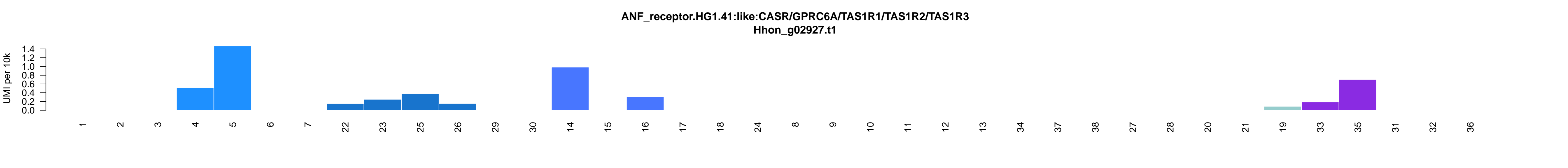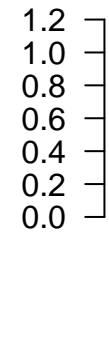**ANF_receptor.HG1.41:like:CASR/GPRC6A/TAS1R1/TAS1R2/TAS1R3**
Hhon_g02927.t1

ANF_receptor.HG1.51:like:CASR/GPRC6A/TAS1R1/TAS1R2/TAS1R3
Hhon_g10146.t1

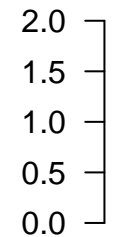ANF_receptor.HG1.52:like:CASR/GPRC6A/TAS1R1/TAS1R2/TAS1R3
Hhon_g08398.t1

ANF_receptor.HG1.54:like:CASR/GPRC6A/TAS1R1/TAS1R2/TAS1R3
Hhon_g10198.t1

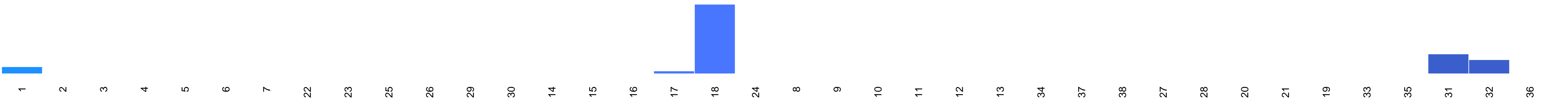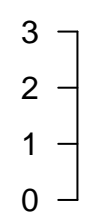ANF_receptor.HG1.61:like:CASR/GPRC6A/TAS1R1/TAS1R2/TAS1R3
Hhon_g03029.t1

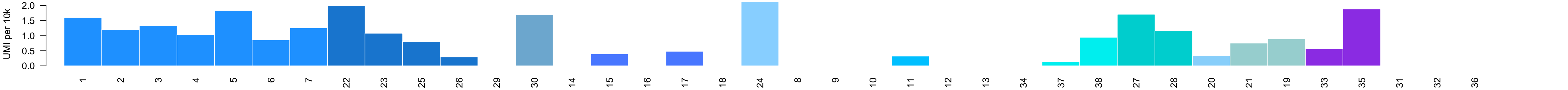**ANF_receptor.HG1.63:like:CASR/GPRC6A/TAS1R1/TAS1R2/TAS1R3**
Hhon_g03031.t1

ANF_receptor.HG1.66:like:CASR/GPRC6A/TAS1R1/TAS1R2/TAS1R3
Hhon_g11146.t1
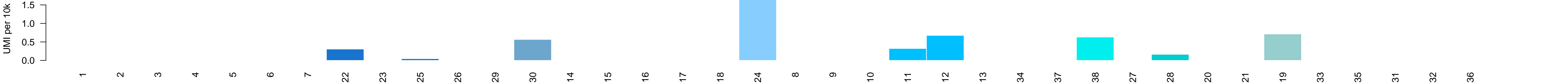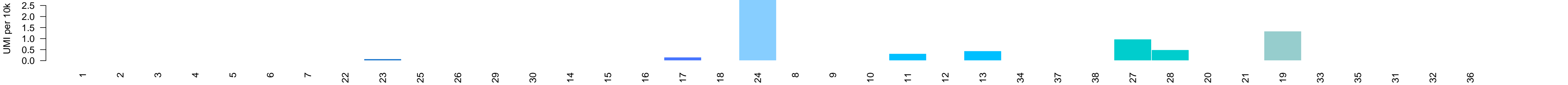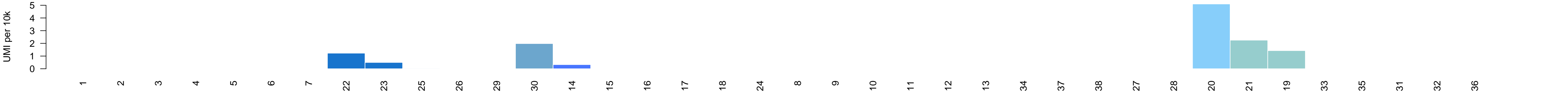
ANF_receptor.HG2.10:like:GABBR1/GABBR2
Hhon_g04629.t1
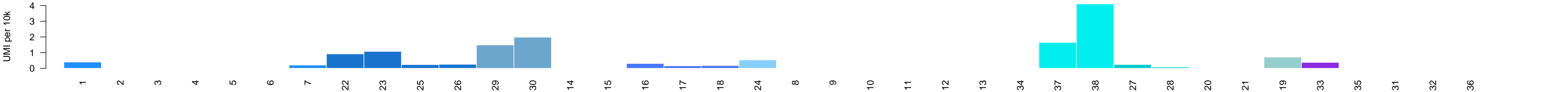
ANF_receptor.HG2.10:like:GABBR1/GABBR2
Hhon_g05486.t1
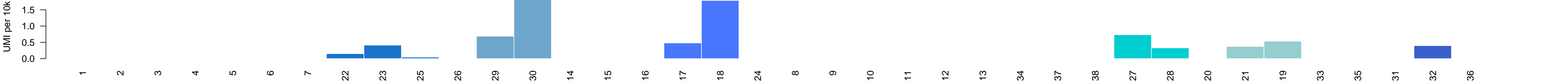
ANF_receptor.HG2.10:like:GABBR1/GABBR2
Hhon_g11350.t1

ANF_receptor.HG2.11:like:GABBR1/GABBR2
Hhon_g07928.t1

ANF_receptor.HG2.12:like:GABBR1/GABBR2
Hhon_g07295.t1

ANF_receptor.HG2.13:like:GABBR1/GABBR2
Hhon_g09726.t1

ANF_receptor.HG2.16:like:GABBR1/GABBR2
Hhon_g02705.t1

ANF_receptor.HG2.17:like:GABBR1/GABBR2
Hhon_g02704.t1

ANF_receptor.HG2.18:like:GABBR1/GABBR2
Hhon_g02706.t1

**ANF_receptor.HG2.19:like:GABBR1/GABBR2
Hhon_g02707.t1**

ANF_receptor.HG2.20:like:GABBR1/GABBR2
Hhon_g07966.t1

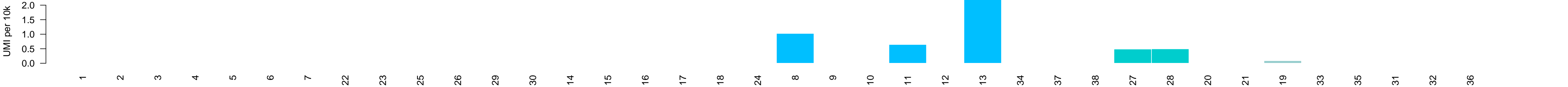**ANF_receptor.HG2.21:like:GABBR1/GABBR2**
Hhon_g01249.t1

ANF_receptor.HG2.22:like:GABBR1/GABBR2
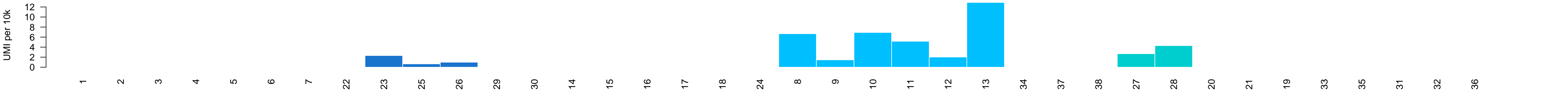Hhon_g01250.t1
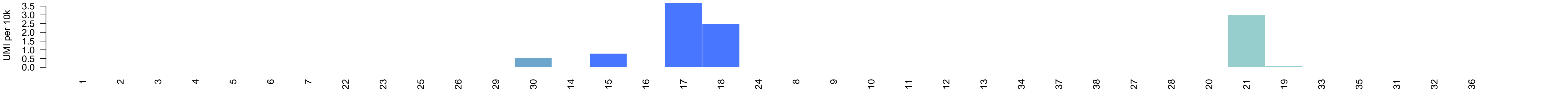
ANF_receptor.HG2.23:like:GABBR1/GABBR2
Hhon_g11851.t1

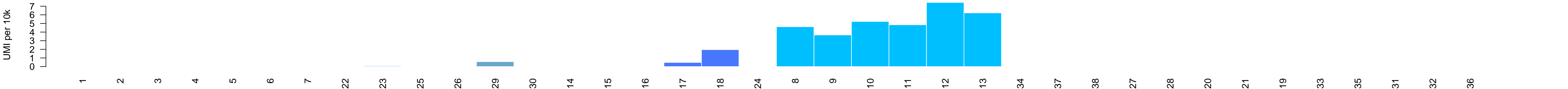ANF_receptor.HG2.24:like:GABBR1/GABBR2
Hhon_g11451.t1

ANF_receptor.HG2.3:like:GABBR1/GABBR2
Hhon_g07557.t1
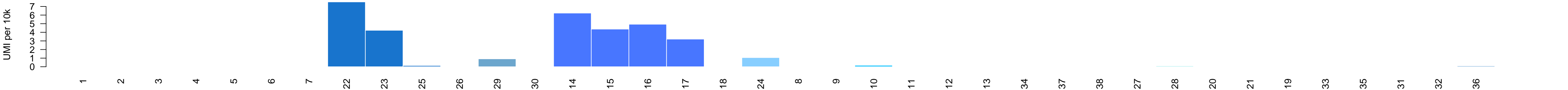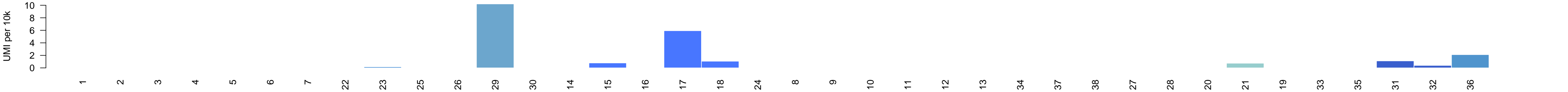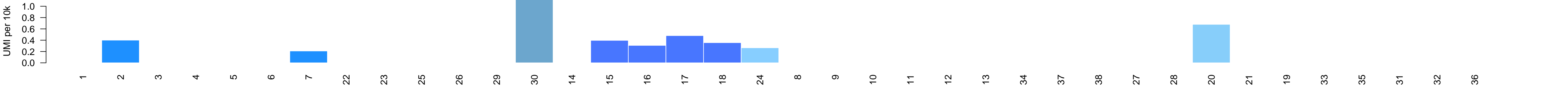
ANF_receptor.HG2.3:like:GABBR1/GABBR2
Hhon_g08692.t1

ANF_receptor.HG2.3:like:GABBR1/GABBR2
Hhon_g08729.t1

ANF_receptor.HG2.3:like:GABBR1/GABBR2
Hhon_g10188.t1
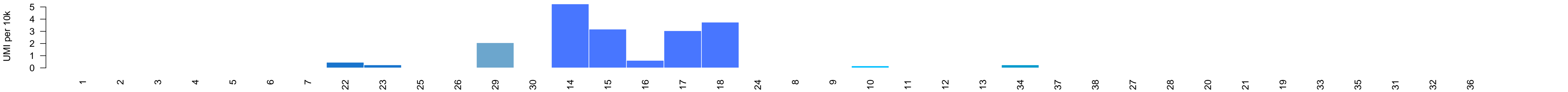
ANF_receptor.HG2.3:like:GABBR1/GABBR2
Hhon_g10508.t1

ANF_receptor.HG2.3:like:GABBR1/GABBR2
Hhon_g10739.t1

ANF_receptor.HG2.3:like:GABBR1/GABBR2
Hhon_g10740.t1

ANF_receptor.HG2.31:like:GABBR1/GABBR2
Hhon_g07965.t1

ANF_receptor.HG2.32:like:GABBR1/GABBR2
Hhon_g07690.t1

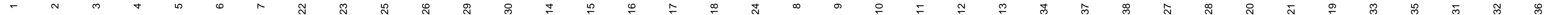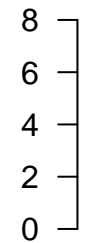ANF_receptor.HG2.32:like:GABBR1/GABBR2
Hhon_g07967.t1

ANF_receptor.HG2.4:like:GABBR1/GABBR2
Hhon_g09350.t1
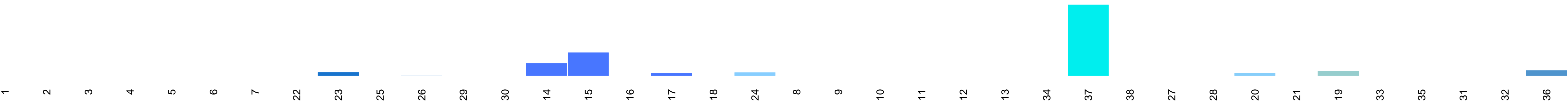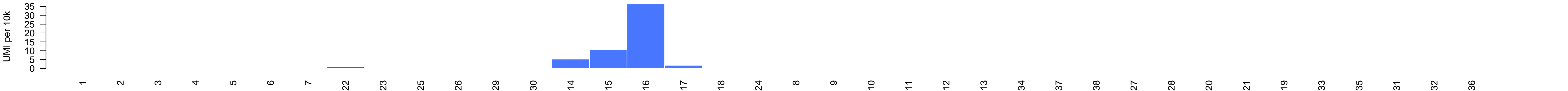
ANF_receptor.HG2.4:like:GABBR1/GABBR2
Hhon_g09351.t1

ANF_receptor.HG2.4:like:GABBR1/GABBR2
Hhon_g09352.t1
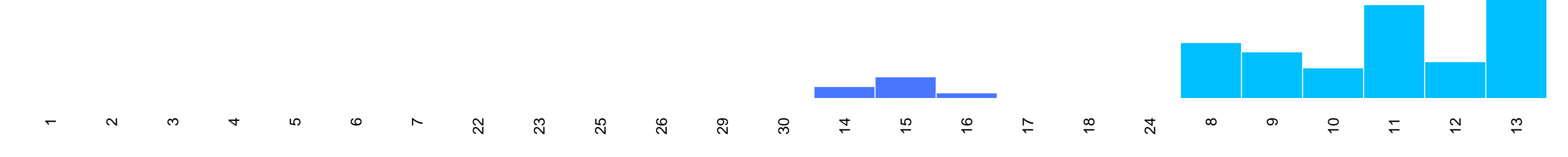
ANF_receptor.HG2.46:like:GABBR1/GABBR2
Hhon_g07333.t1

ANF_receptor.HG2.47:like:GABBR1/GABBR2
Hhon_g01977.t1
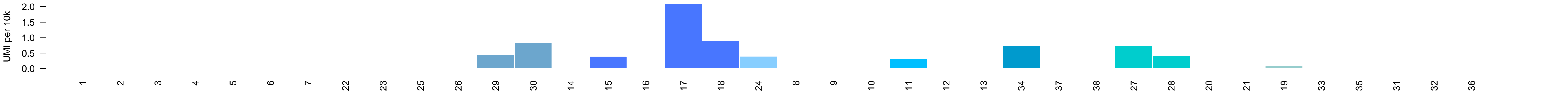
ANF_receptor.HG2.5:like:GABBR1/GABBR2
Hhon_g05295.t1
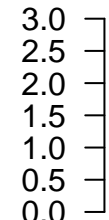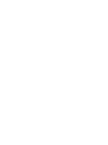
ANF_receptor.HG2.5:like:GABBR1/GABBR2
Hhon_g05296.t1
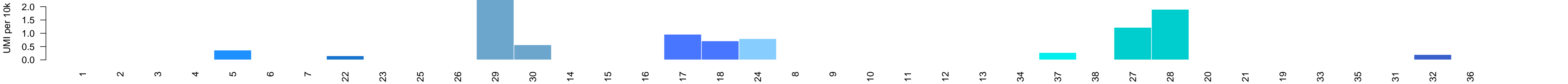
ANF_receptor.HG2.5:like:GABBR1/GABBR2
Hhon_g05297.t1
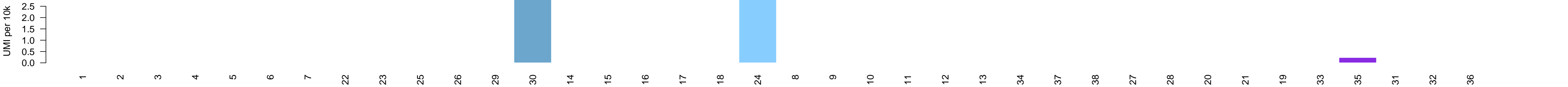
ANF_receptor.HG2.5:like:GABBR1/GABBR2
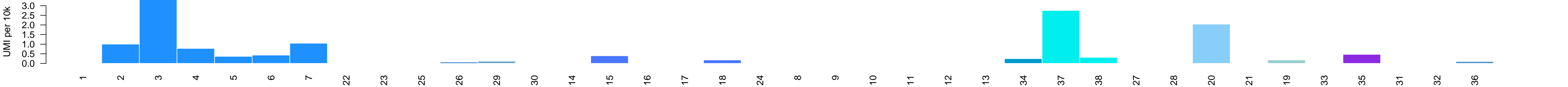**Hhon_g05728.t1**
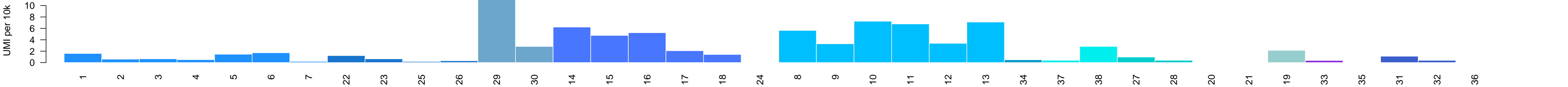
ANF_receptor.HG2.5:like:GABBR1/GABBR2
Hhon_g08349.t1
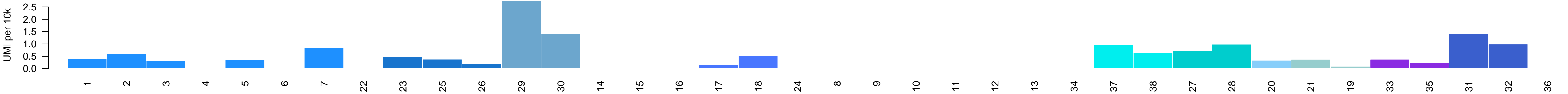
ANF_receptor.HG2.52:like:GABBR1/GABBR2
Hhon_g01976.t1

ANF_receptor.HG3.4:like:GRIA1/GRIA2/GRIA3/GRIA4/GRIK1/GRIK2/GRIK3/GRIK4/GRIK5

Hhon_g02946.t1

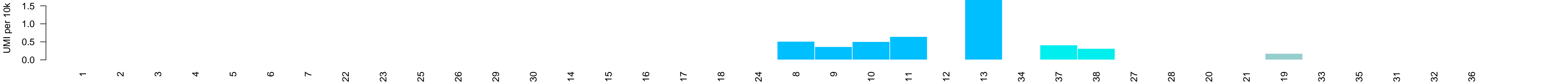ANF_receptor.HG4.6:like:GUCY2D/GUCY2F/NPR1/NPR2/NPR3
Hhon_g00715.t1

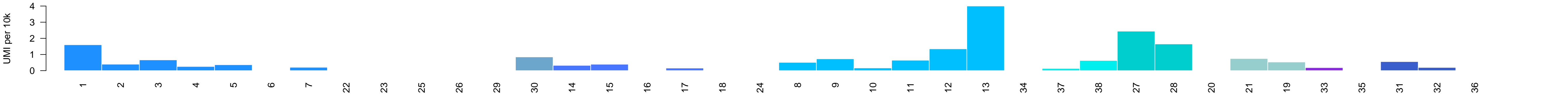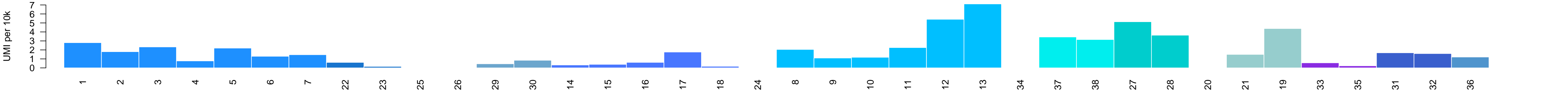ANF_receptor.HG4.6:like:GUCY2D/GUCY2F/NPR1/NPR2/NPR3
Hhon_g07696.t1

ANF_receptor.HG4.9:like:GUCY2D/GUCY2F/NPR1/NPR2/NPR3
Hhon_g01654.t1

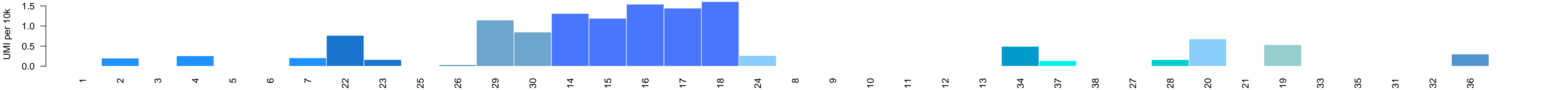**ANF_receptor.HG4.9:like:GUCY2D/GUCY2F/NPR1/NPR2/NPR3**
Hhon_g04947.t1

ANF_receptor.HG4.9:like:GUCY2D/GUCY2F/NPR1/NPR2/NPR3
Hhon_g04948.t1

COesterase.HG1.16:like:ACHE/BCHE/CEL/CES1/CES2/CES3/CES4A/CES5A/TG
Hhon_g01143.t1

COesterase.HG1.16:like:ACHE/BCHE/CEL/CES1/CES2/CES3/CES4A/CES5A/TG
Hhon_g01146.t1
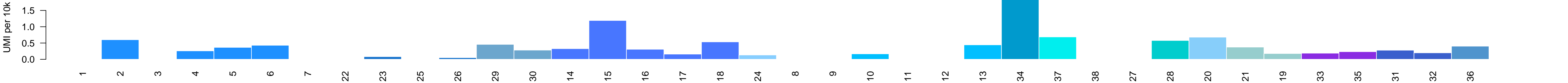
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Hhon_g01153.t1

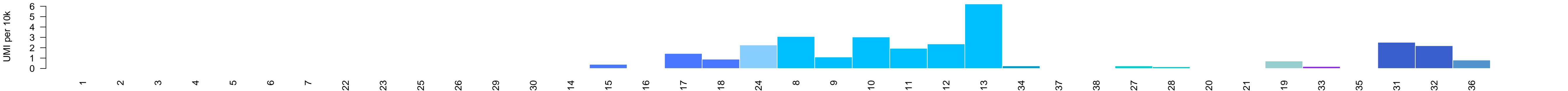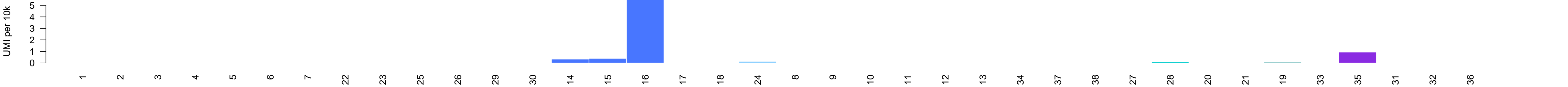COesterase.HG1.16:like:ACHE/BCHE/CEL/CES1/CES2/CES3/CES4A/CES5A/TG
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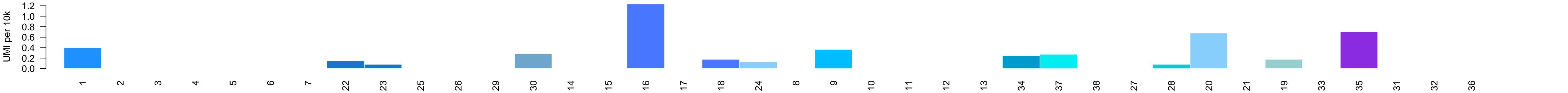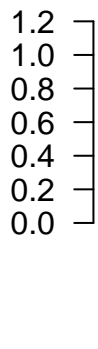
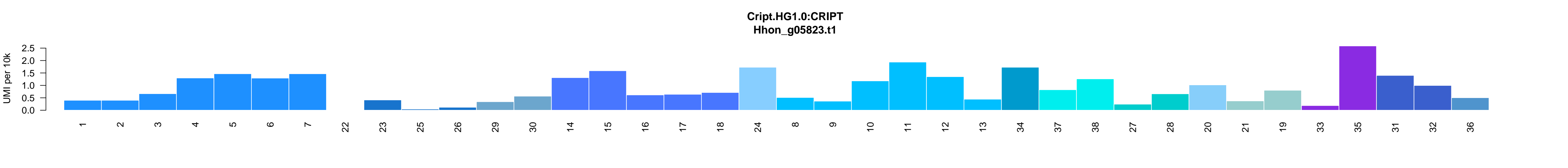COesterase.HG1.16:like:ACHE/BCHE/CEL/CES1/CES2/CES3/CES4A/CES5A/TG
Hhon_g01161.t1

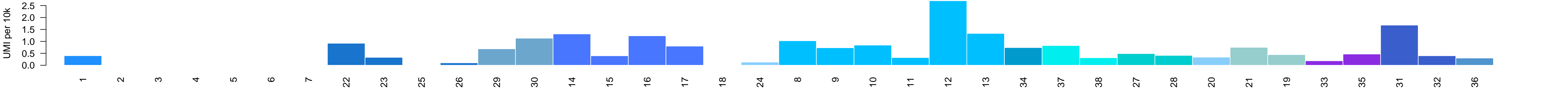COesterase.HG1.16:like:ACHE/BCHE/CEL/CES1/CES2/CES3/CES4A/CES5A/TG

Hhon_g09790.t1

Cript.HG1.0:CRIPT
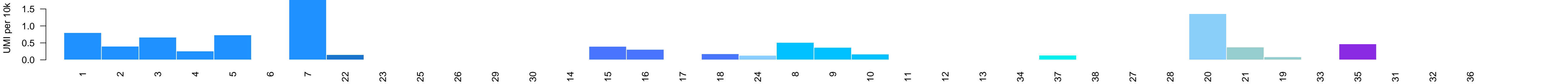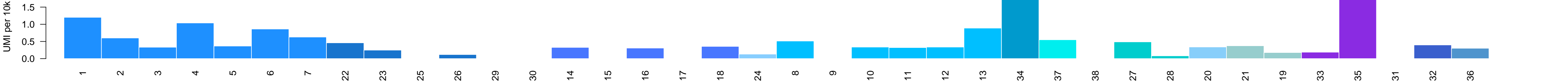**Hhon_g05823.t1**

FERM_M.HG1.1:like:MYO10/PLEKHH1/PLEKHH2/PLEKHH3
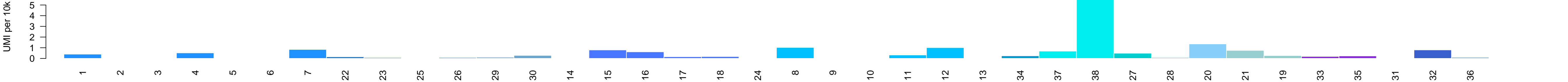**Hhon_g09383.t1**

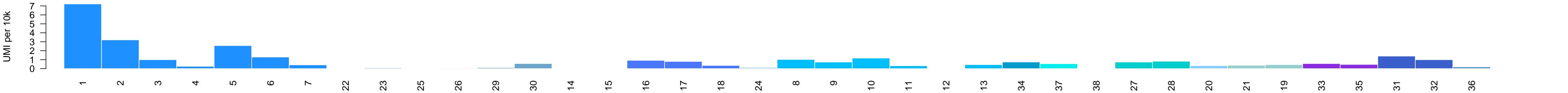FERM_M.HG1.14:like:MYO7A/MYO7B
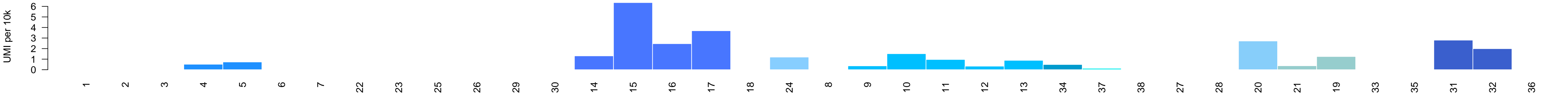Hhon_g04928.t1

FERM_M.HG1.18:TLN1/TLN2
Hhon_g04057.t1

FERM_M.HG1.22:PTPN14/PTPN21;Y_phosphatase.HG1.37:PTPN14/PTPN21
Hhon_g10875.t1
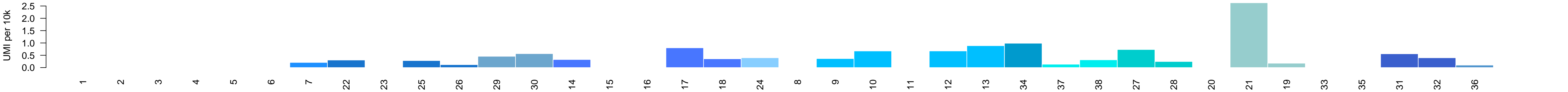
FERM_M.HG1.24:FRMD1/FRMD6/FRMPD2/PTPN13
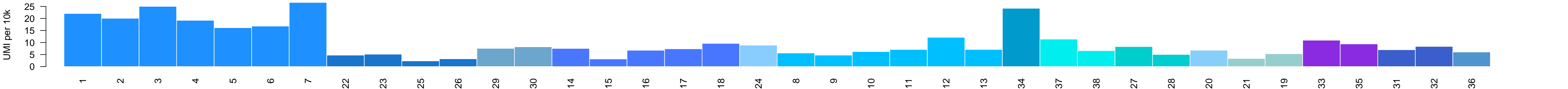Hhon_g03085.t1

FERM_M.HG1.3:PLEKHH1/PLEKHH2
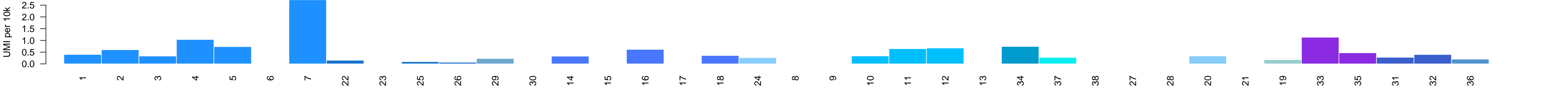Hhon_g09776.t1

FERM_M.HG1.30:FRMD4A/FRMD4B
Hhon_g05657.t1

FERM_M.HG1.32:EPB41/EPB41L1/EPB41L2/EPB41L3/EPB41L4A/EPB41L4B/EPB41L5/FARP1/FARP2/FRMD3/FRMD5/FRMD7/PTPN3/PTPN4
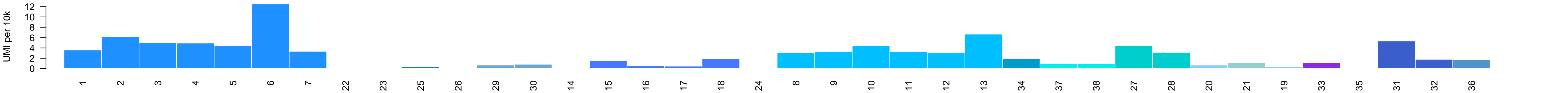Hhon_g00260.t1

FERM_M.HG1.32:EPB41/EPB41L1/EPB41L2/EPB41L3/EPB41L4A/EPB41L4B/EPB41L5/FARP1/FARP2/FRMD3/FRMD5/FRMD7/PTPN3/PTPN4
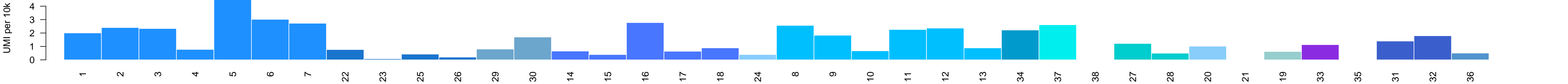
Hhon_g06296.t1

FERM_M.HG1.32:EPB41/EPB41L1/EPB41L2/EPB41L3/EPB41L4A/EPB41L4B/EPB41L5/FARP1/FARP2/FRMD3/FRMD5/FRMD7/PTPN3/PTPN4;Y_phosphatase.HG1.38:PTPN3/PTPN4
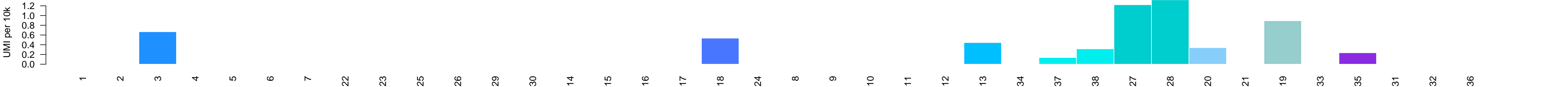
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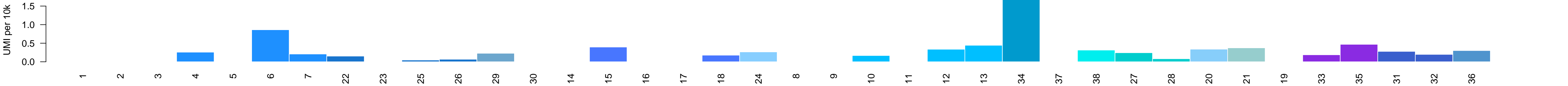
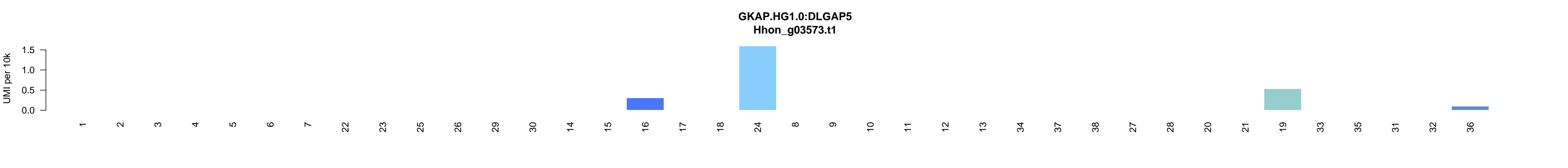**FERM_M.HG1.33:like:EZR/MSN/NF2/RDX**
Hhon_g00802.t1
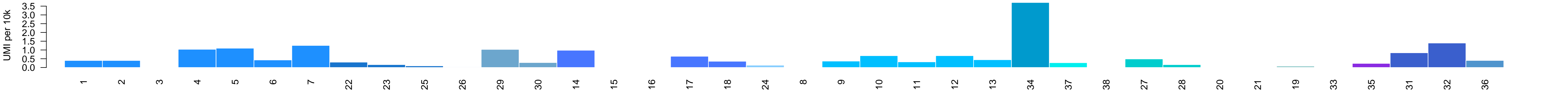
FERM_M.HG1.40:EZR/MSN/RDX
Hhon_g05421.t1

FERM_M.HG1.7:like:FERMT1/FERMT2/FERMT3/TLN1/TLN2
Hhon_g08184.t1
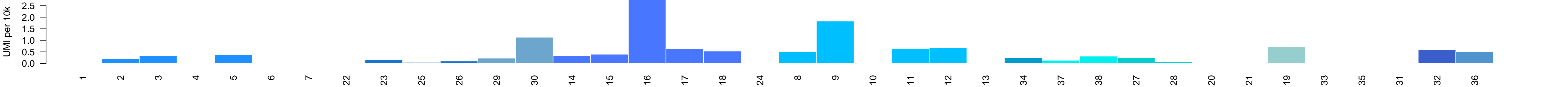
GKAP.HG1.0:DLGAP5
Hhon_g03573.t1

Guanylate_kin.HG1.0:MAGI1/MAGI2/MAGI3
Hhon_g05213.t1
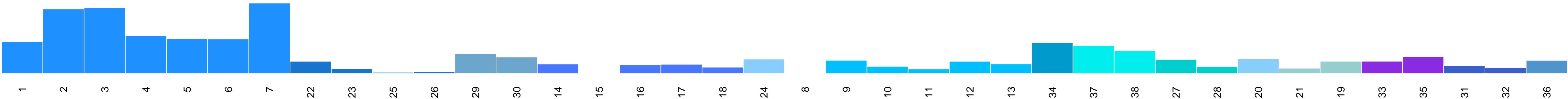
Guanylate_kin.HG1.12:LRGUK
Hhon_g06532.t1
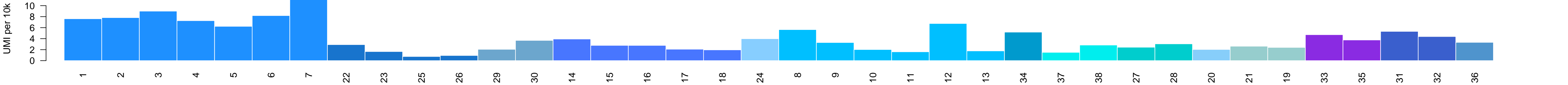
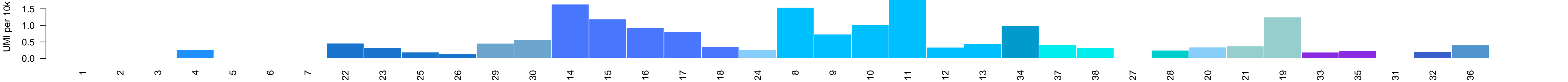**Guanylate_kin.HG1.14:DLG1/DLG2/DLG3/DLG4**
Hhon_g03162.t1

Guanylate_kin.HG1.20:CASK/MPP1;PDZ.HG2.8:CASK
Hhon_g05233.t1

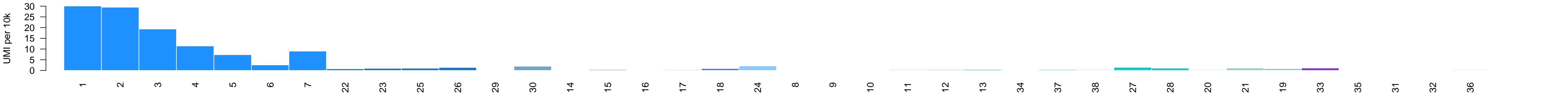Guanylate_kin.HG1.9:like:CASK/MPP1/MPP2/MPP6;PDZ.HG2.5:MPP2/MPP6
Hhon_g02440.t1

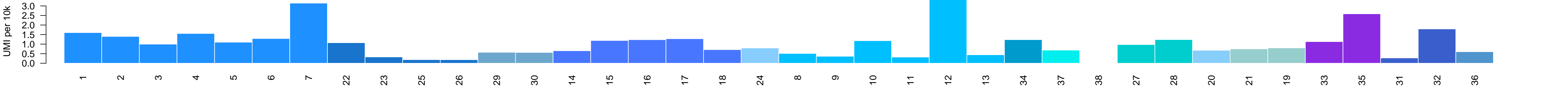Guanylate_kin.HG2.0:CACNB1/CACNB2/CACNB3/CACNB4
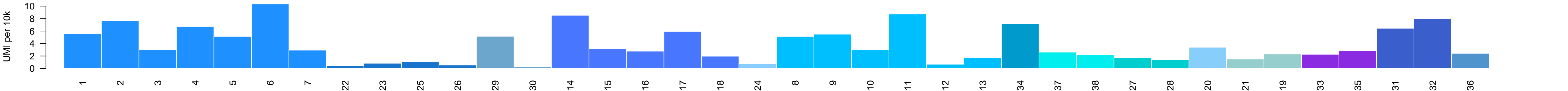Hhon_g00617.t1

Homer.HG1.2:HOMER1/HOMER2/HOMER3
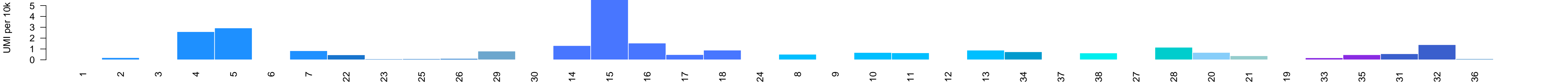Hhon_g05897.t1

MARVEL.HG1.13:SYNPR/SYP/SYPL1/SYPL2
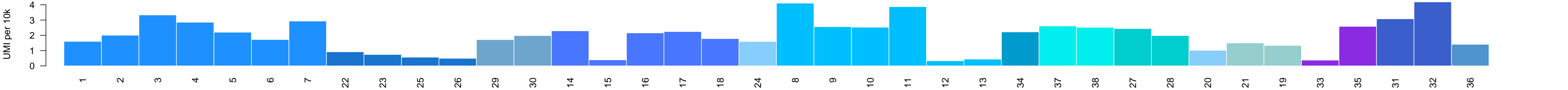Hhon_g06148.t1

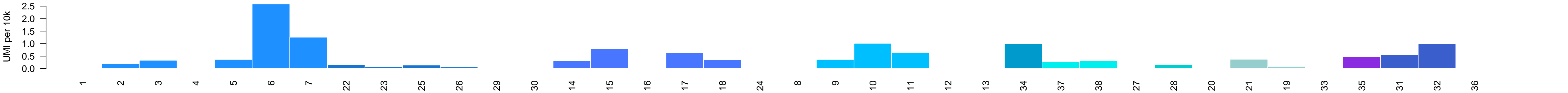MARVEL.HG2.0:SYNGR1/SYNGR2/SYNGR4
Hhon_g01441.t1

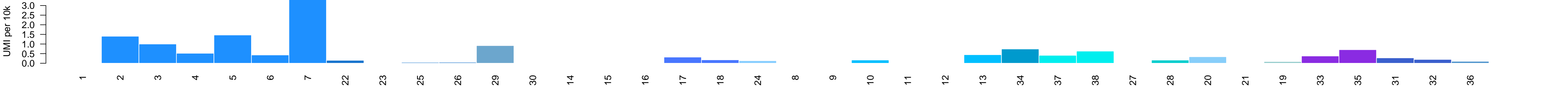**MFS_1.HG1.16:SLC16A2/SLC16A10**
Hhon_g02900.t1

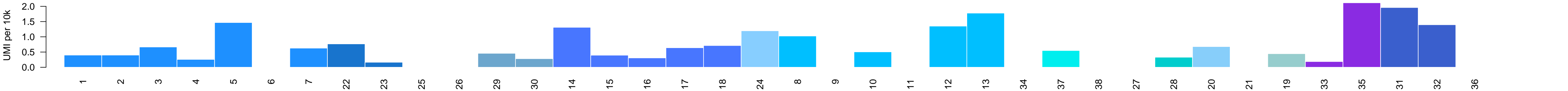MFS_1.HG10.1:SLC49A3
Hhon_g03338.t1
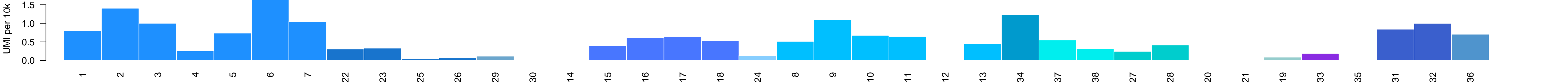
MFS_1.HG10.3:like:SLC49A3
Hhon_g10089.t1

MFS_1.HG11.3:like:SLC37A1/SLC37A2/SLC37A3
Hhon_g08325.t1

MFS_1.HG11.7:SLC37A1/SLC37A2
Hhon_g06342.t1

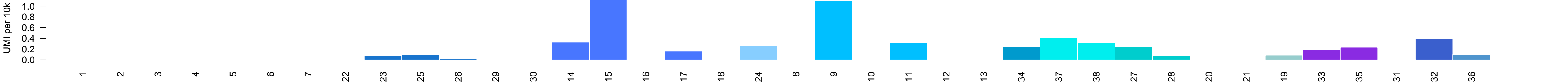MFS_1.HG11.7:SLC37A1/SLC37A2;Sugar_tr.HG6.2:like:SPNS1/SPNS2/SPNS3
Hhon_g06341.t1
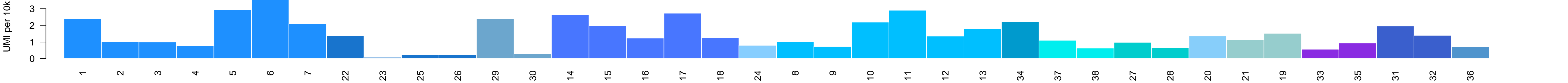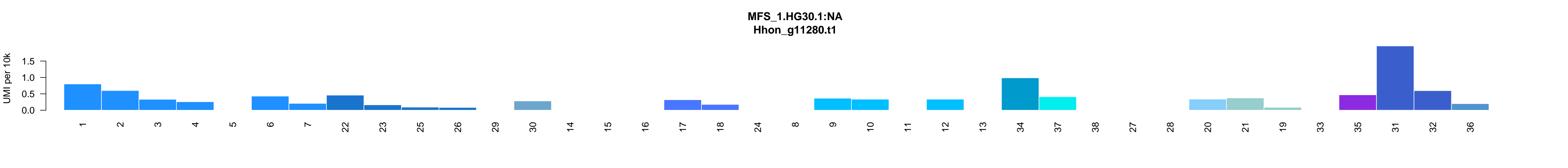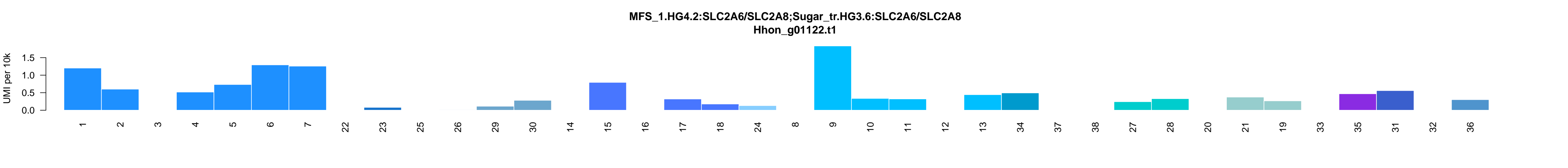
MFS_1.HG12.2:like:MFSD6
Hhon_g11761.t1

MFS_1.HG12.3:MFSD6
Hhon_g11623.t1

MFS_1.HG18.0:NA
Hhon_g01417.t1

MFS_1.HG30.1:NA
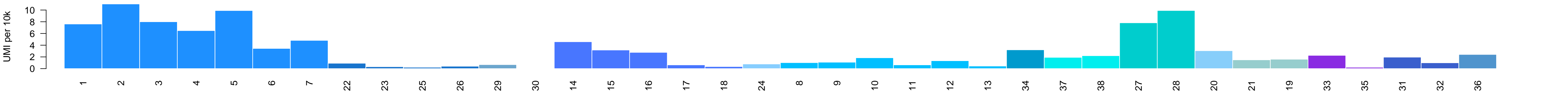Hhon_g11280.t1

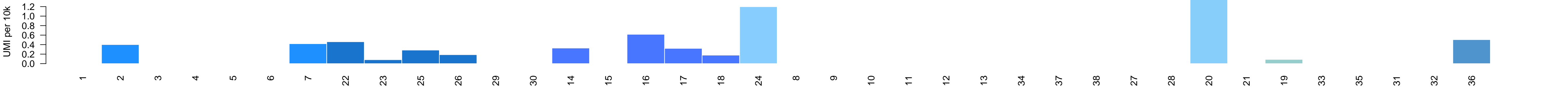MFS_1.HG4.2:SLC2A6/SLC2A8;Sugar_tr.HG3.6:SLC2A6/SLC2A8
Hhon_g01122.t1

MFS_1.HG4.3:like:SLC2A10/SLC2A12;Sugar_tr.HG3.4:like:SLC2A10/SLC2A12/SLC2A13
Hhon_g08440.t1
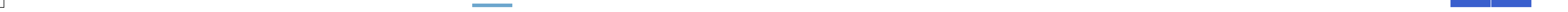
MFS_1.HG5.21:SLC17A6/SLC17A7/SLC17A8
Hhon_g11731.t1

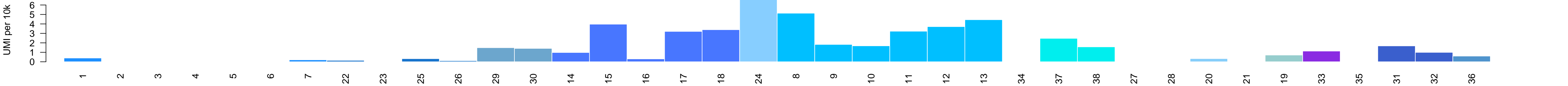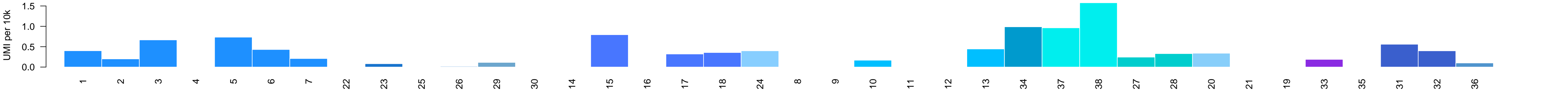**MFS_1.HG5.22:like:SLC17A6/SLC17A7/SLC17A8**
Hhon_g05533.t1

MFS_1.HG5.8:SLC17A9
Hhon_g07338.t1

MFS_1.HG6.1:like:SLCO1A2/SLCO1B1/SLCO1B3/SLCO1B3−SLCO1B7/SLCO1C1/SLCO2A1/SLCO2B1/SLCO3A1/SLCO4A1/SLCO4C1/SLCO5A1/SLCO6A1

Hhon_g03315.t1

MFS_1.HG6.1:like:SLCO1A2/SLCO1B1/SLCO1B3/SLCO1B3−SLCO1B7/SLCO1C1/SLCO2A1/SLCO2B1/SLCO3A1/SLCO4A1/SLCO4C1/SLCO5A1/SLCO6A1
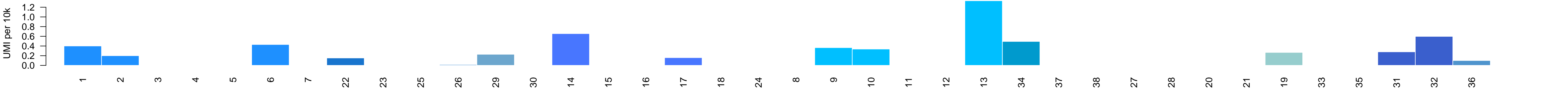
Hhon_g05175.t1

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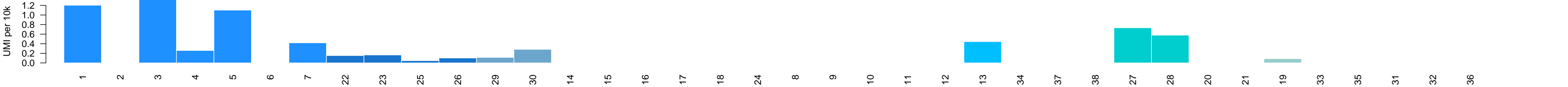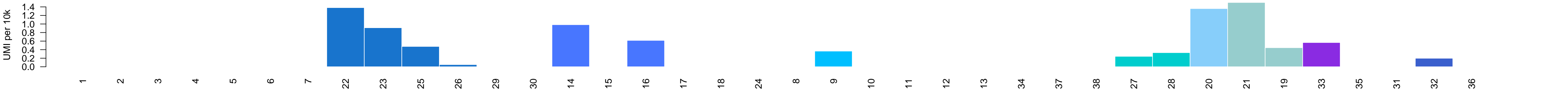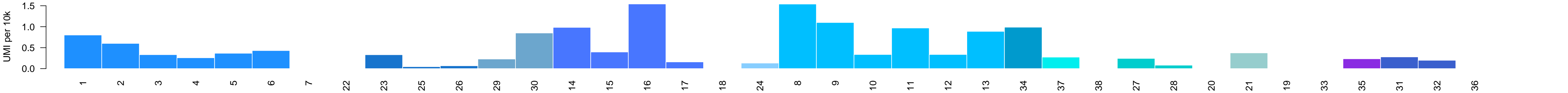
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MFS_1.HG6.1:like:SLCO1A2/SLCO1B1/SLCO1B3/SLCO1B3−SLCO1B7/SLCO1C1/SLCO2A1/SLCO2B1/SLCO3A1/SLCO4A1/SLCO4C1/SLCO5A1/SLCO6A1
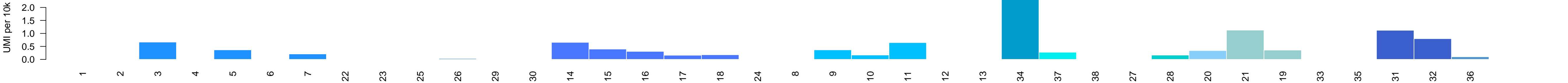
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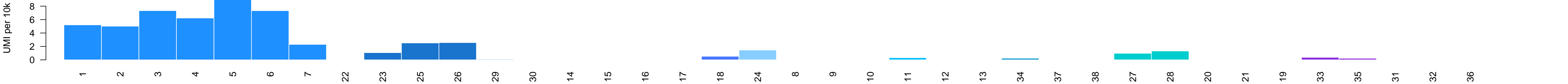**MFS_1.HG7.0:SLC18A1/SLC18A2/SLC18A3/SLC18B1**
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MFS_1.HG7.0:SLC18A1/SLC18A2/SLC18A3/SLC18B1
Hhon_g07944.t1

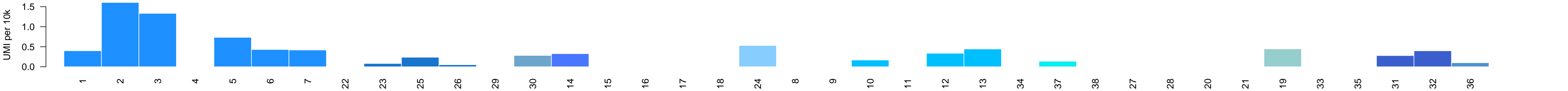MFS_1.HG7.0:SLC18A1/SLC18A2/SLC18A3/SLC18B1
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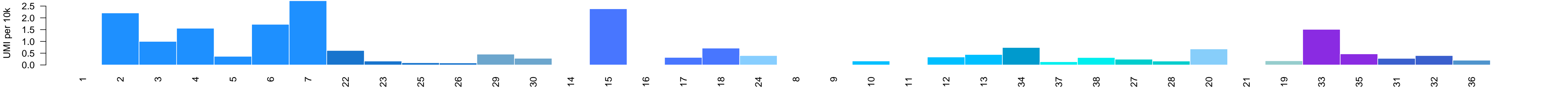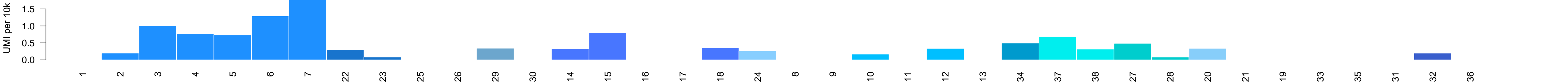**MFS_1.HG7.0:SLC18A1/SLC18A2/SLC18A3/SLC18B1**
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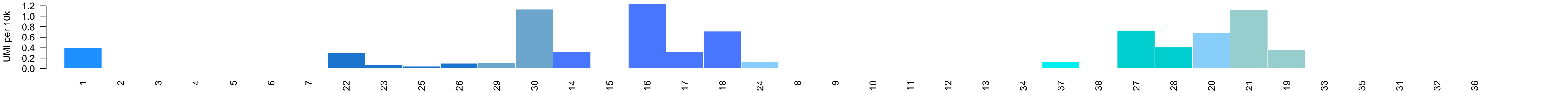MFS_1.HG7.0:SLC18A1/SLC18A2/SLC18A3/SLC18B1
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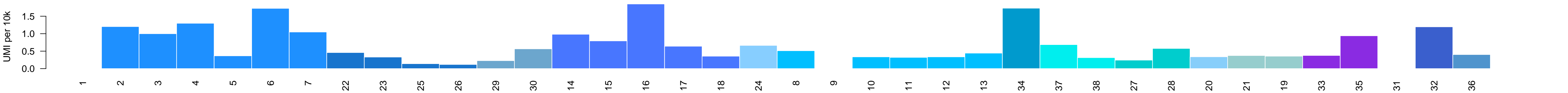
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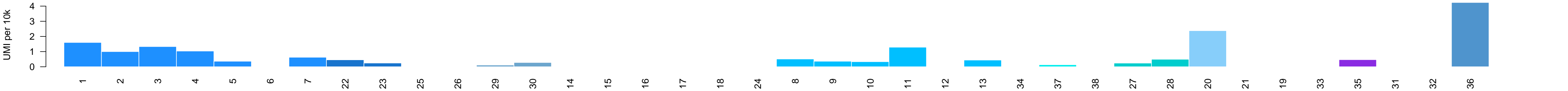
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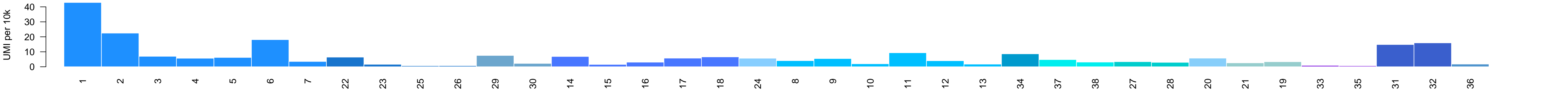
NCam.HG1.0:like:NCAM1/NCAM2
Hhon_g10924.t1

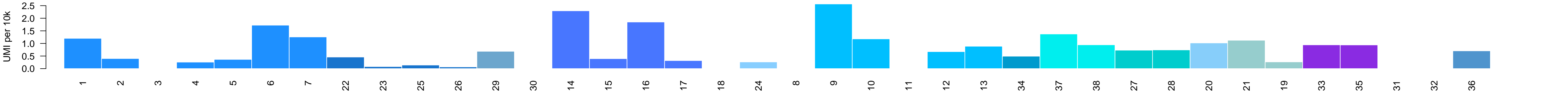PDZ.HG2.1:PARD6A/PARD6B/PARD6G
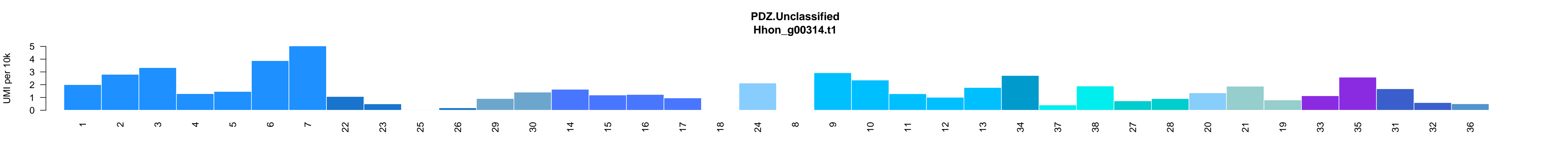Hhon_g06050.t1

PDZ.HG2.2:like:PARD6A/PARD6B/PARD6G
Hhon_g00193.t1

PDZ.HG3.14:SHROOM2/SHROOM3/SHROOM4/SYNPO2/SYNPO2L
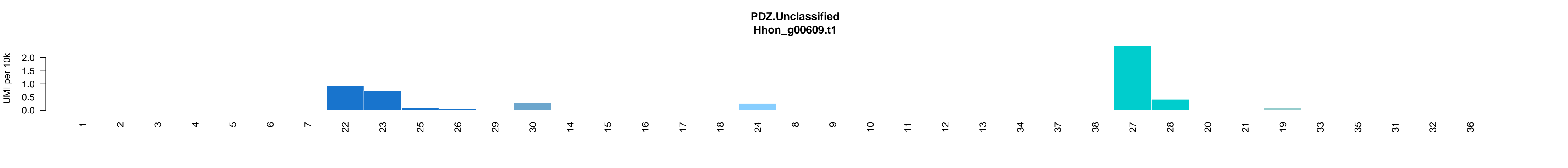**Hhon_g03284.t1**

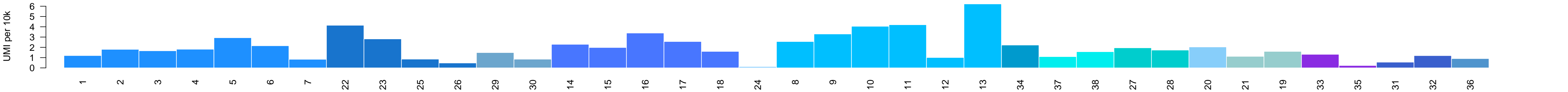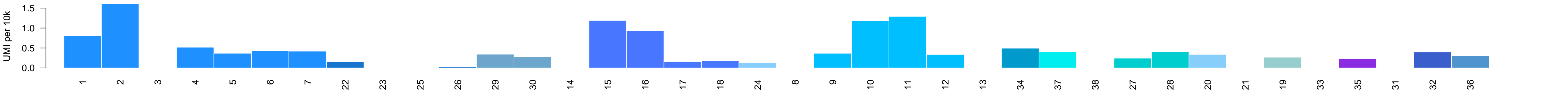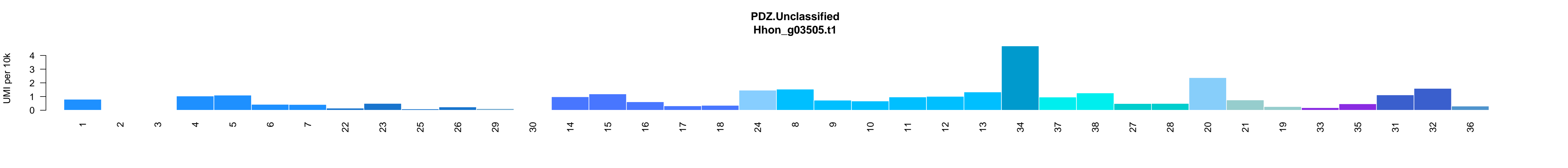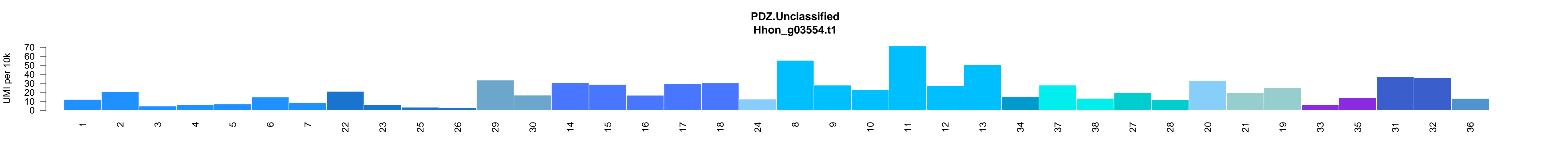**PDZ.HG3.7:like:SHROOM2/SHROOM3/SHROOM4/SYNPO2/SYNPO2L**
Hhon_g05029.t1

PDZ.Unclassified
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PDZ.Unclassified
Hhon_g00609.t1

PDZ.Unclassified
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PDZ.Unclassified
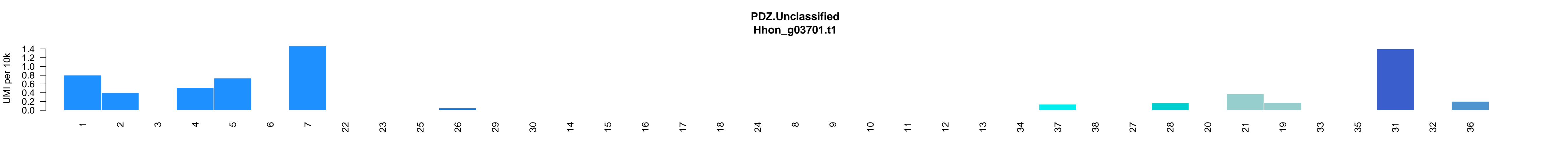**Hhon_g03701.t1**

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PDZ.Unclassified
Hhon_g04152.t1
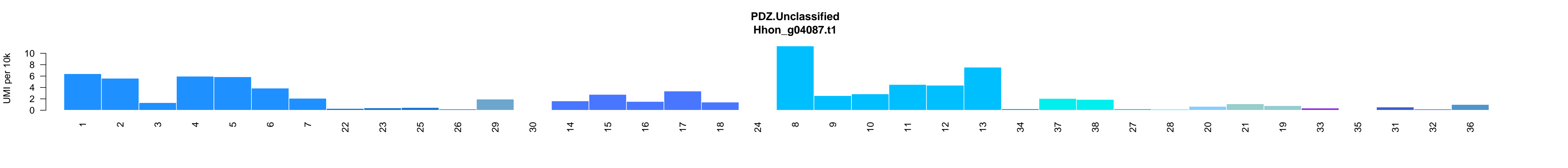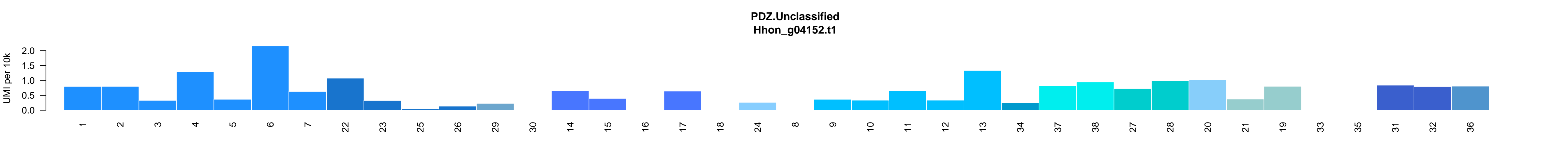
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Hhon_g07923.t1

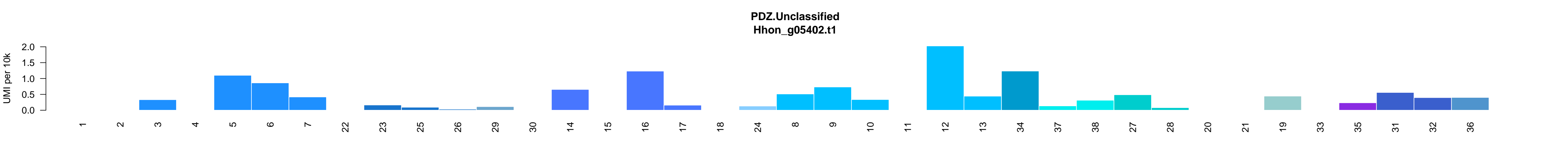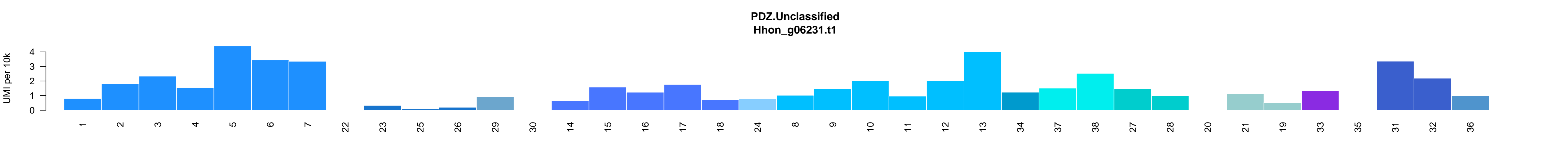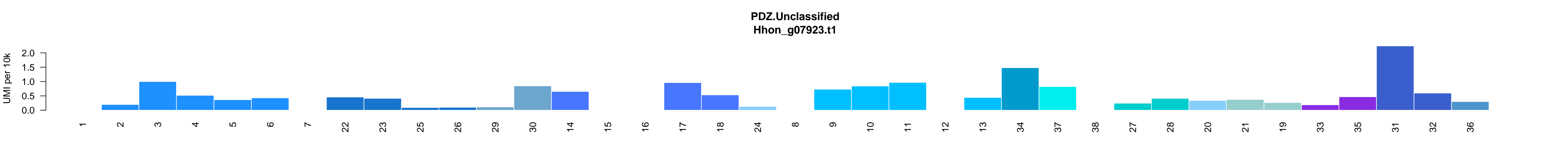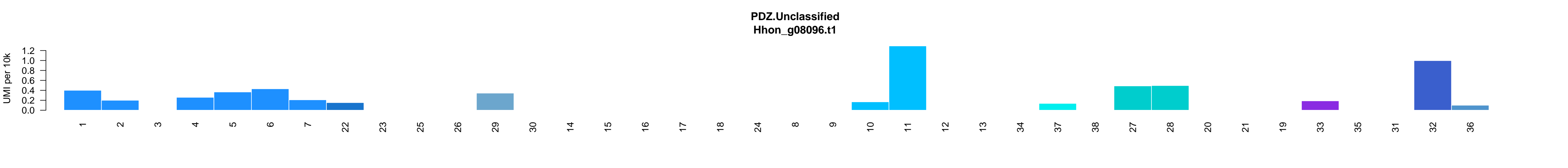**PDZ.Unclassified**
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PDZ.Unclassified
Hhon_g09054.t1

PDZ.Unclassified
Hhon_g09582.t1

PDZ.Unclassified
Hhon_g09763.t1

PDZ.Unclassified
Hhon_g09872.t1

PDZ.Unclassified
Hhon_g09898.t1

PDZ.Unclassified
Hhon_g11210.t1

PID.HG1.1:TBC1D1/TBC1D4
Hhon_g02956.t1

PID.HG1.12:SHC1/SHC2/SHC3/SHC4
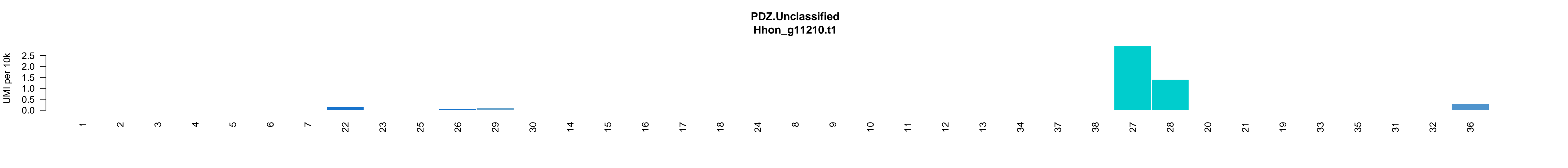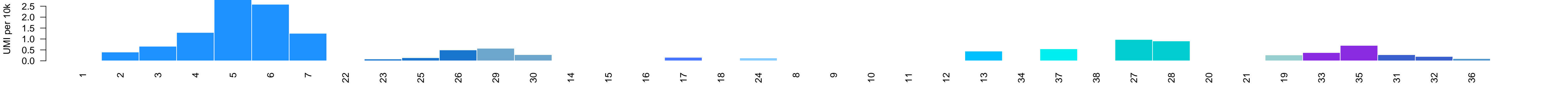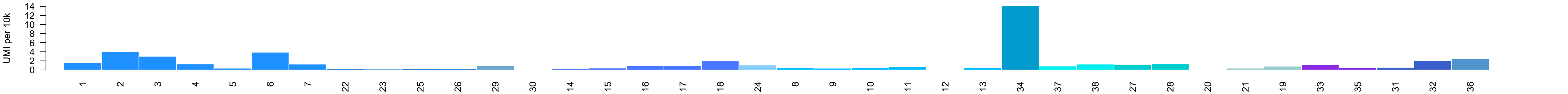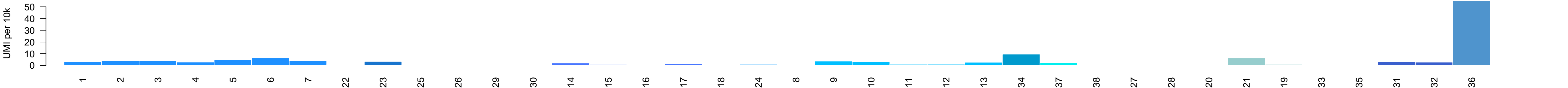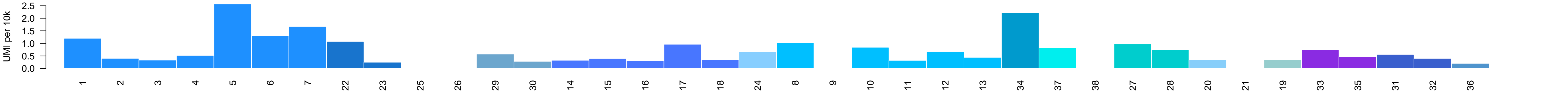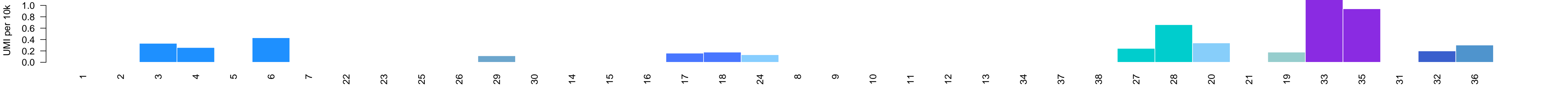Hhon_g08332.t1

PID.HG1.14:NUMB/NUMBL
Hhon_g05164.t1

PID.HG1.19:APBA1/APBA2/APBA3
Hhon_g08341.t1

PID.HG1.8:like:LDLRAP1/PID1
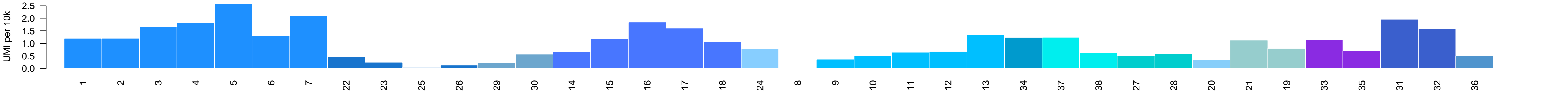Hhon_g03550.t1

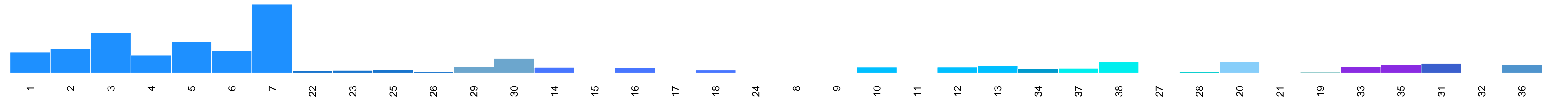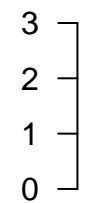**PMCA.HG1.2:ATP2C1/ATP2C2**
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PMCA.HG1.5:AC010616.1/ATP1A1/ATP1A2/ATP1A3/ATP1A4/ATP4A/ATP12A
Hhon_g07340.t1

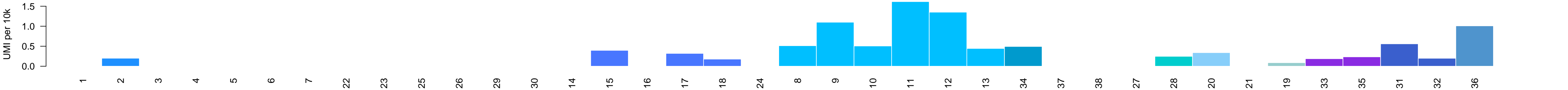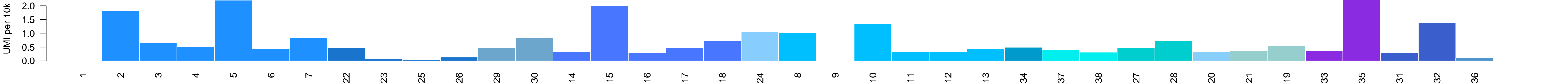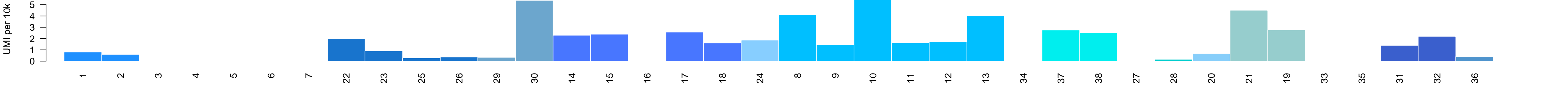**Pyridoxal_deC.HG1.2:PDXDC1**
Hhon_g01516.t1

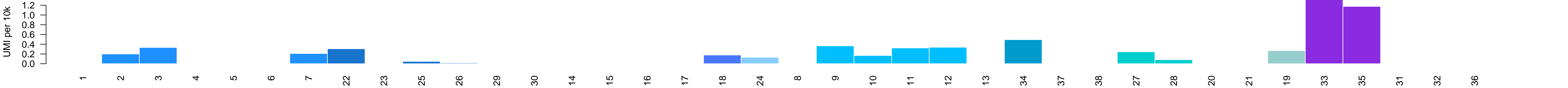Pyridoxal_deC.HG1.4:CSAD/GAD1/GAD2/GADL1
Hhon_g07003.t1

Pyridoxal_deC.HG1.7:SGPL1
Hhon_g09901.t1

RabphilinRIM.HG1.2:like:RIMS1/RIMS2/RPH3A/RPH3AL;Synaptotagmin.HG1.45:like:SYTL1/SYTL2/SYTL3/SYTL4/SYTL5
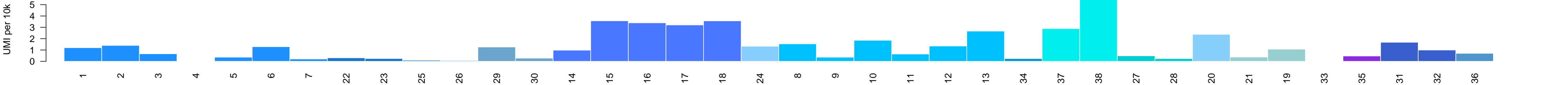Hhon_g05394.t1

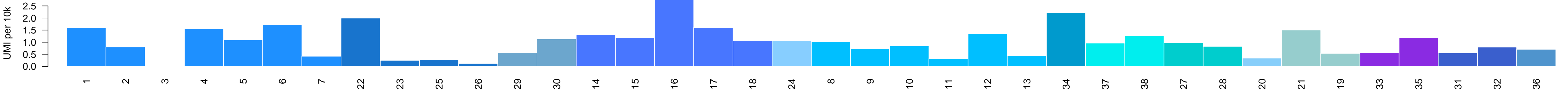**RabphilinRIM.HG1.3:RIMS1/RIMS2**
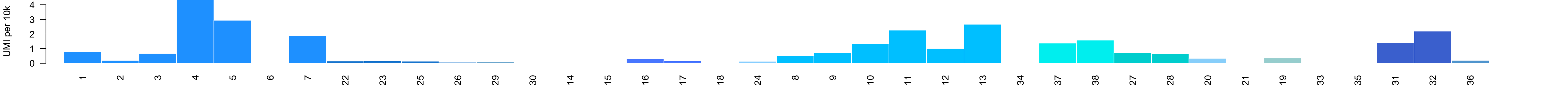**Hhon_g00150.t1**

RabphilinRIM.HG1.3:RIMS1/RIMS2;Synaptotagmin.HG1.38:RIMS1/RIMS2/RIMS3/RIMS4
Hhon_g00025.t1

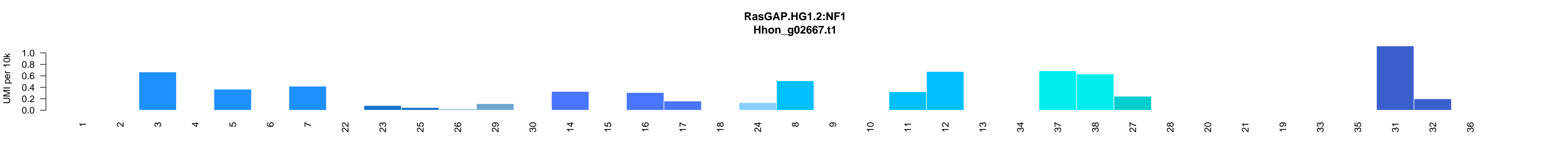RabphilinRIM.HG1.4:RPH3A/RPH3AL;Synaptotagmin.HG1.40:DOC2A/DOC2B/RPH3A
Hhon_g05981.t1

RasGAP.HG1.1:like:IQGAP1/IQGAP2/IQGAP3
Hhon_g05243.t1
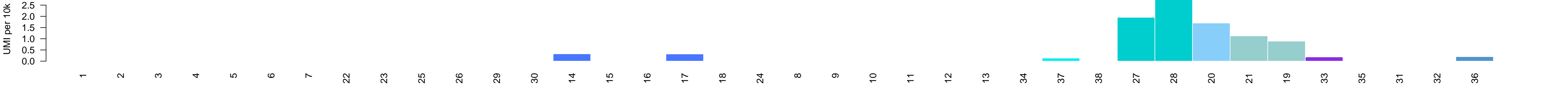
RasGAP.HG1.2:NF1
Hhon_g02667.t1
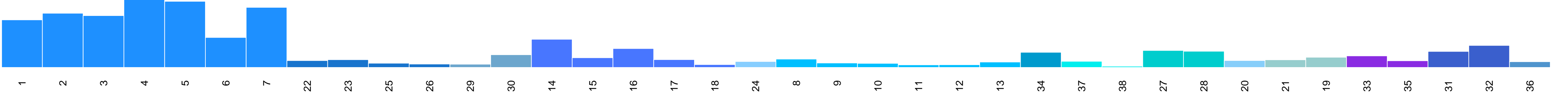
RasGAP.HG1.4:IQGAP1/IQGAP2
Hhon_g02774.t1
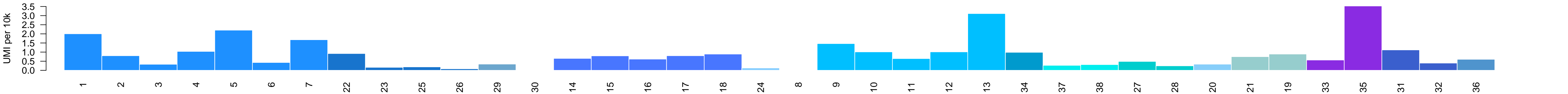
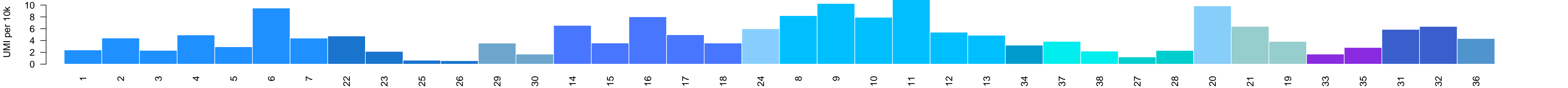RasGAP.HG1.5:DAB2IP/RASAL2/RASAL3/SYNGAP1;SynGAP.HG1.2:like:DAB2IP/RASAL2/SYNGAP1
Hhon_g01252.t1

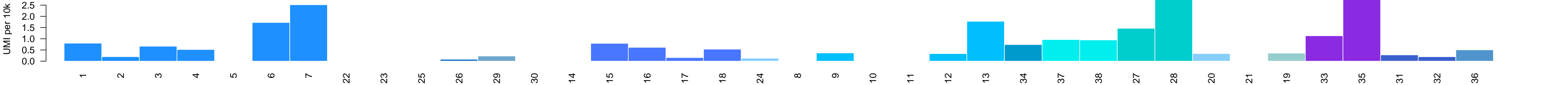SDF.HG1.1:SLC1A1/SLC1A2/SLC1A3/SLC1A4/SLC1A5/SLC1A6/SLC1A7
Hhon_g07519.t1

SNAP−25.HG1.2:SNAP25
Hhon_g03735.t1

SNF.HG1.1:like:AC136616.1/SLC6A1/SLC6A2/SLC6A3/SLC6A4/SLC6A5/SLC6A6/SLC6A7/SLC6A8/SLC6A9/SLC6A11/SLC6A12/SLC6A13/SLC6A14/SLC6A15/SLC6A16/SLC6A17/SLC6A18/SLC6A19/SLC6A20

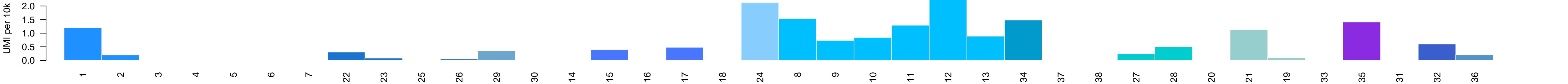Hhon_g06517.t1

SNF.HG1.2:like:AC136616.1/SLC6A1/SLC6A2/SLC6A3/SLC6A4/SLC6A5/SLC6A6/SLC6A7/SLC6A8/SLC6A9/SLC6A11/SLC6A12/SLC6A13/SLC6A14/SLC6A15/SLC6A16/SLC6A17/SLC6A18/SLC6A19/SLC6A20

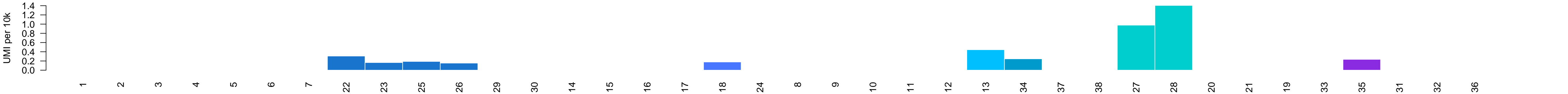Hhon_g09021.t1

SNF.HG1.2:like:AC136616.1/SLC6A1/SLC6A2/SLC6A3/SLC6A4/SLC6A5/SLC6A6/SLC6A7/SLC6A8/SLC6A9/SLC6A11/SLC6A12/SLC6A13/SLC6A14/SLC6A15/SLC6A16/SLC6A17/SLC6A18/SLC6A19/SLC6A20

Hhon_g09268.t1

SNF.HG1.2:like:AC136616.1/SLC6A1/SLC6A2/SLC6A3/SLC6A4/SLC6A5/SLC6A6/SLC6A7/SLC6A8/SLC6A9/SLC6A11/SLC6A12/SLC6A13/SLC6A14/SLC6A15/SLC6A16/SLC6A17/SLC6A18/SLC6A19/SLC6A20

Hhon_g09269.t1
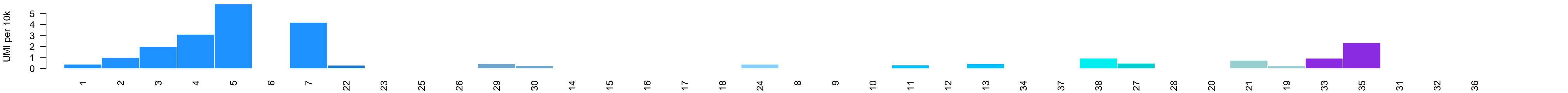
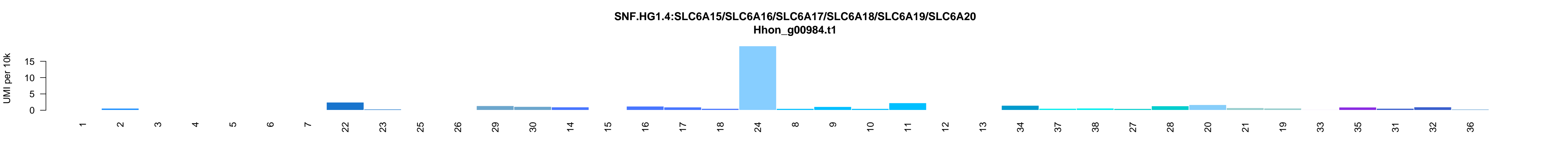**SNF.HG1.30:like:SLC6A5/SLC6A7/SLC6A9/SLC6A14**
Hhon_g10087.t1
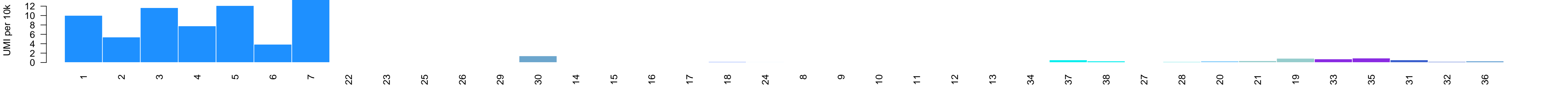
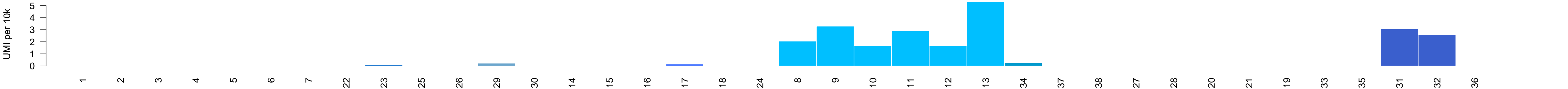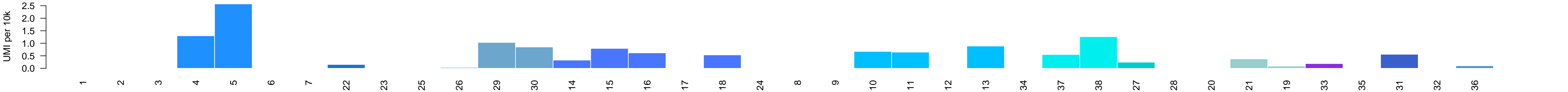SNF.HG1.4:SLC6A15/SLC6A16/SLC6A17/SLC6A18/SLC6A19/SLC6A20
Hhon_g00984.t1

SNF.HG1.46:like:SLC6A5/SLC6A7/SLC6A9/SLC6A14
Hhon_g01169.t1

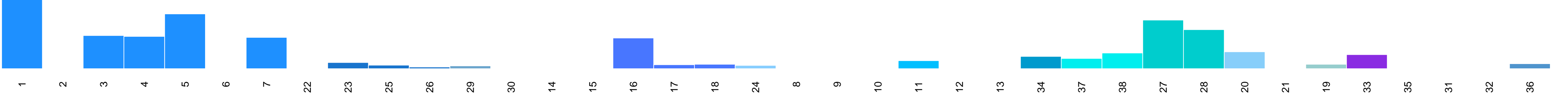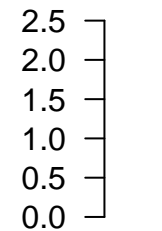**SNF.HG1.46:like:SLC6A5/SLC6A7/SLC6A9/SLC6A14**
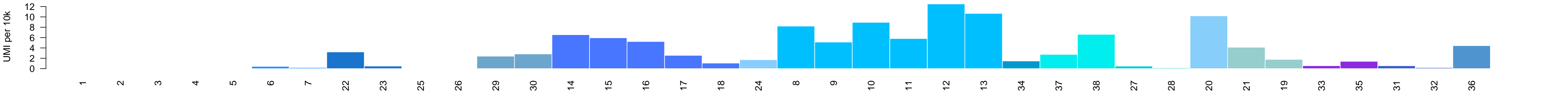**Hhon_g01174.t1**

Stargazin.HG1.15:GSG1L/GSG1L2
Hhon_g01887.t1

Sugar_tr.HG3.4:like:SLC2A10/SLC2A12/SLC2A13
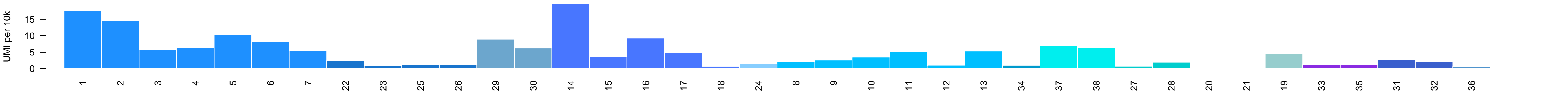Hhon_g08441.t1
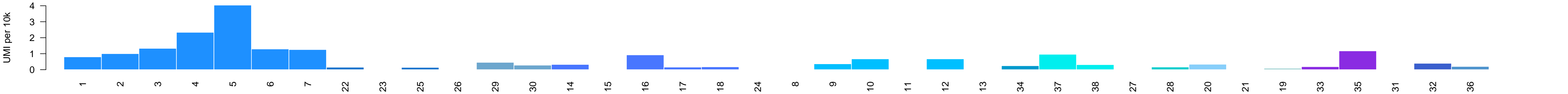
Synaphin.HG2.0:NA
Hhon_g07161.t1

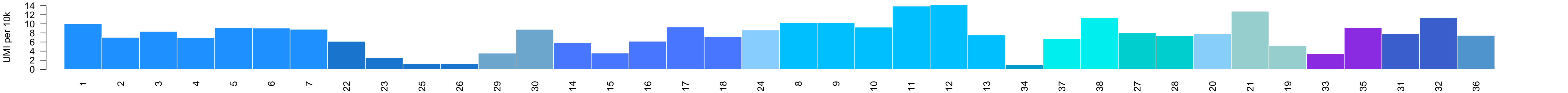**Synaptotagmin.HG1.0:SYT7**
Hhon_g03364.t1
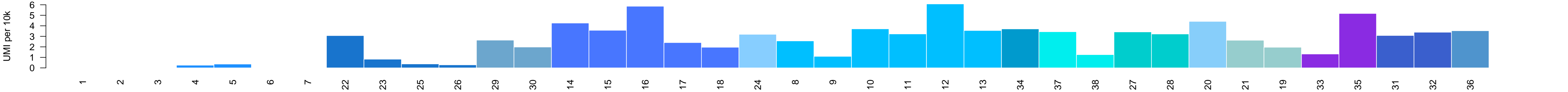
Synaptotagmin.HG1.18:FO681492.1/SYT15
Hhon_g07037.t1
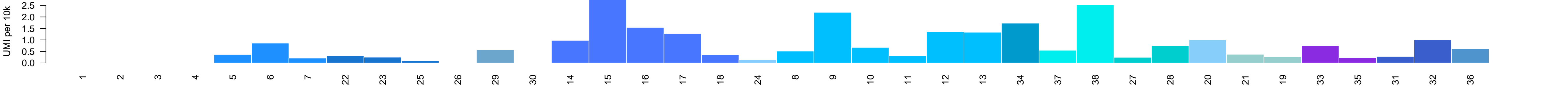
Synaptotagmin.HG1.19:like:TC2N
Hhon_g05915.t1

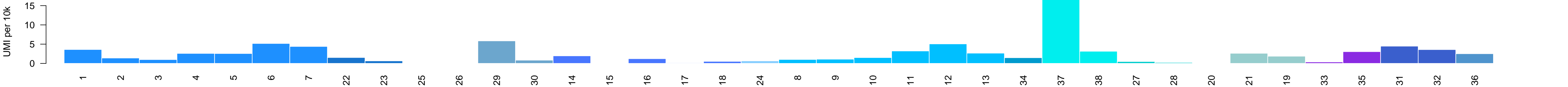Synaptotagmin.HG1.2:SYT1/SYT2/SYT5/SYT8
Hhon_g03362.t1

BAIAP3/C2CD5/DOC2A/DOC2B/DYSF/ESYT1/ESYT2/ESYT3/ITSN2/JMJD7−PLA2G4B/MCTP1/MCTP2/MYOF/OTOF/PIK3C2A/PIK3C2B/PLA2G4B/PLA2G4D/PRKCA/PRKCB/PRKCG/RASA2/RASA3/RASA4/RASA4B/RASAL1/RGS3/RIMS1/RIMS2/RIMS3/RIMS4/RPH3A/SYT14/SYT16/SYTL1/SYTL2/SYTL3/SYTL4/S
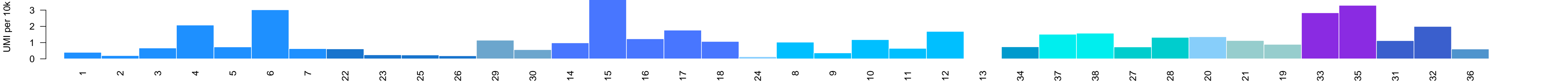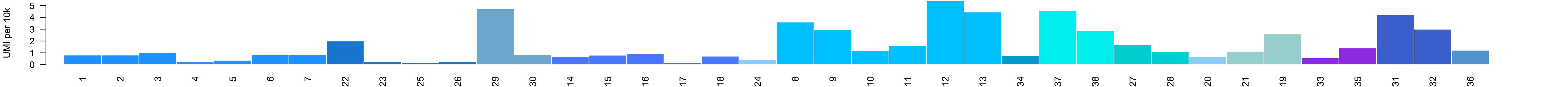
Hhon_g04256.t1

Synaptotagmin.HG1.32:BAIAP3/UNC13D
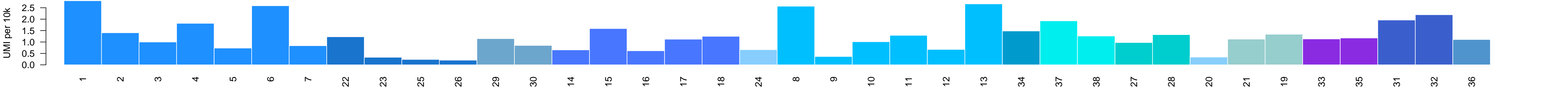**Hhon_g03867.t1**

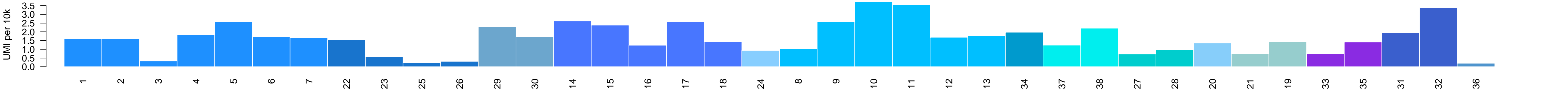**Synaptotagmin.HG1.43:like:ESYT1/ESYT2/ESYT3**
Hhon_g10206.t1

UMI per 10k
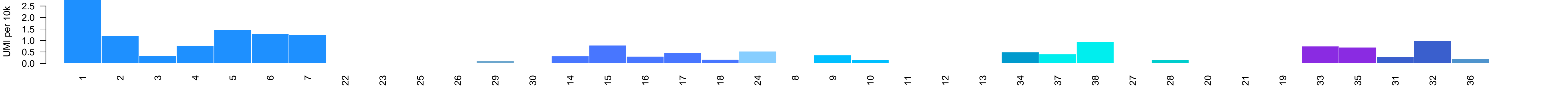
Synaptotagmin.HG1.49:ESYT1/ESYT2/ESYT3
Hhon_g05559.t1

Synaptotagmin.HG1.59:like:ITSN2/UNC13A/UNC13C
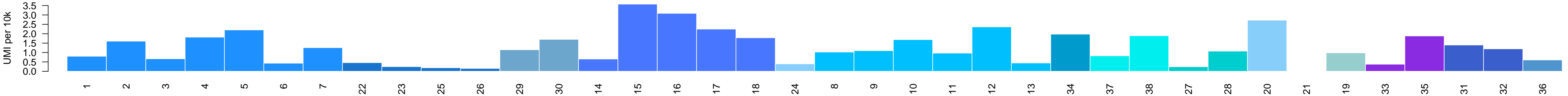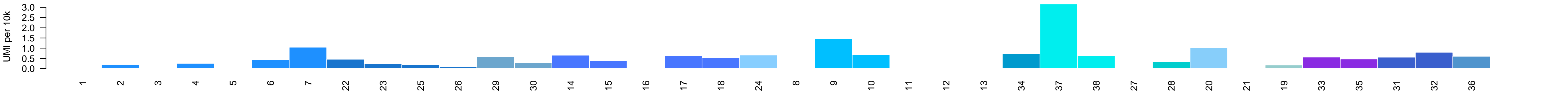Hhon_g02376.t1

Syntaxin.HG1.2:STX7/STX12
Hhon_g00160.t1

Syntaxin.HG1.4:STX1A/STX1B/STX2/STX3/STX4
Hhon_g06927.t1

Syntaxin.HG1.4:STX1A/STX1B/STX2/STX3/STX4
Hhon_g07820.t1

Y_phosphatase.HG1.13:PTPN6/PTPN11
Hhon_g10340.t1

Y_phosphatase.HG1.14:PTPN5/PTPN7/PTPRR
Hhon_g08135.t1

Y_phosphatase.HG1.16:like:PTPRK/PTPRM/PTPRT/PTPRU
Hhon_g02885.t1
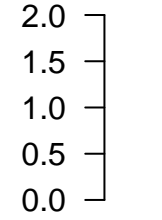
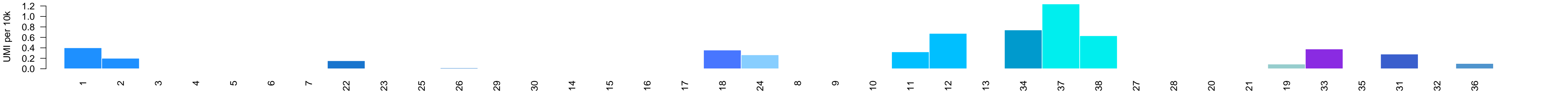Y_phosphatase.HG1.26:like:PTPN9
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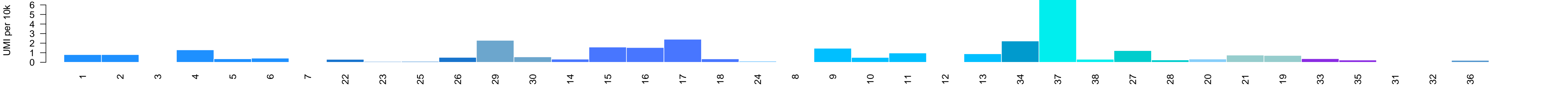
Y_phosphatase.HG1.29:PTPRN/PTPRN2
Hhon_g09428.t1
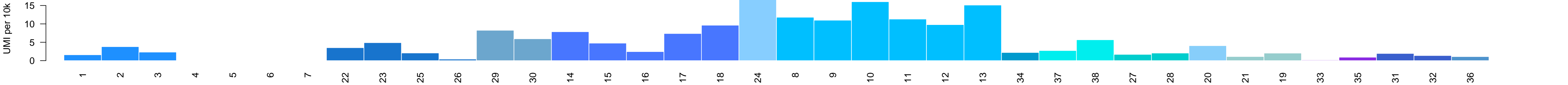
Y_phosphatase.HG2.0:CDKN3
Hhon_g07485.t1

Y_phosphatase.HG3.4:like:DUSP1/DUSP4/DUSP5
Hhon_g05020.t1