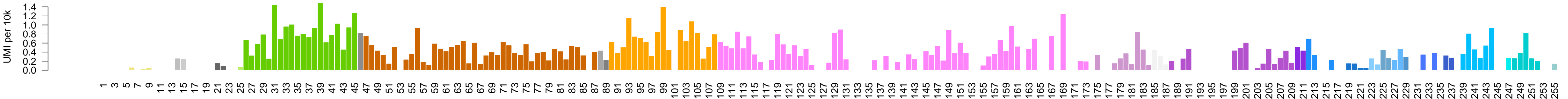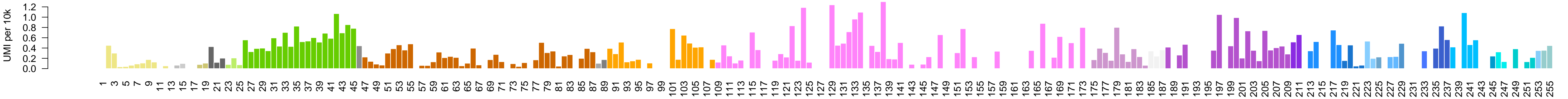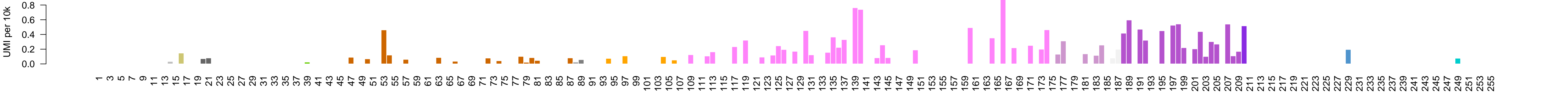Aa_trans.HG1.0:like:SLC32A1/SLC36A1/SLC36A2/SLC36A3/SLC36A4/SLC38A1/SLC38A2/SLC38A3/SLC38A4/SLC38A5/SLC38A6/SLC38A7/SLC38A8/SLC38A9/SLC38A10/SLC38A11/TMEM104
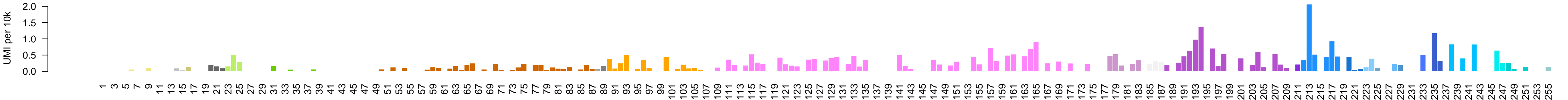
Hhon_g00642.t1

Aa_trans.HG1.11:like:SLC36A1/SLC36A2/SLC36A3/SLC36A4
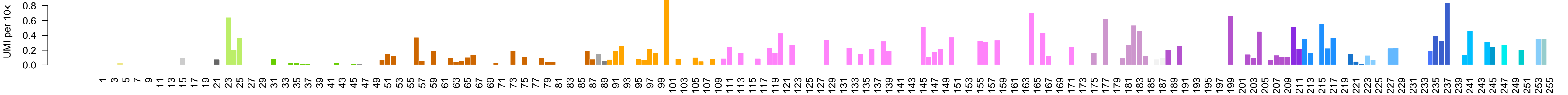**Hhon_g11331.t1**

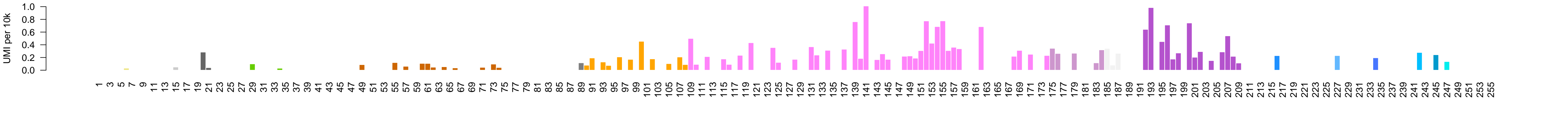Aa_trans.HG1.12:SLC36A1/SLC36A2/SLC36A3/SLC36A4
Hhon_g05835.t1

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

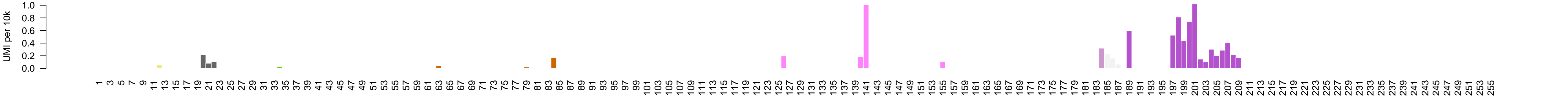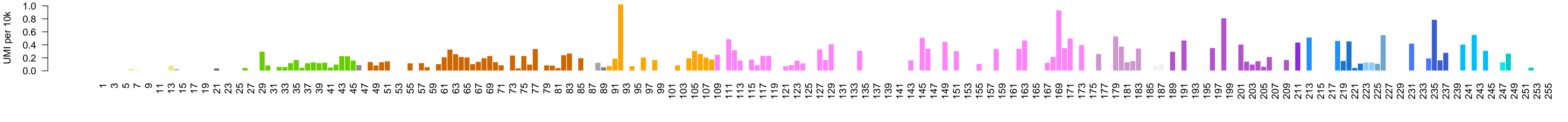Aa_trans.HG1.12:SLC36A1/SLC36A2/SLC36A3/SLC36A4
Hhon_g10104.t1

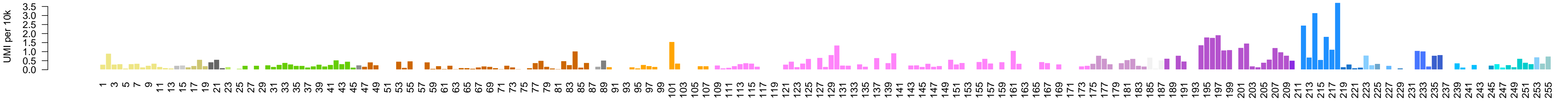Aa_trans.HG1.12:SLC36A1/SLC36A2/SLC36A3/SLC36A4
Hhon_g10105.t1

Aa_trans.HG1.12:SLC36A1/SLC36A2/SLC36A3/SLC36A4
Hhon_g10106.t1

Aa_trans.HG1.13:TMEM104
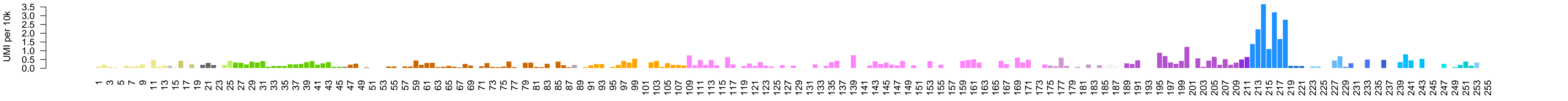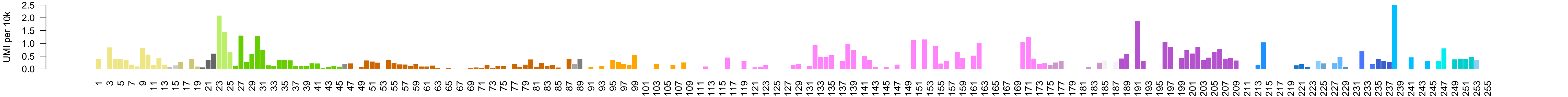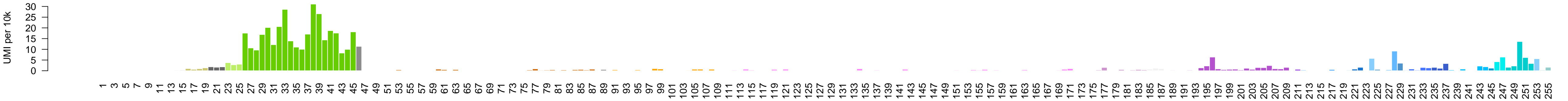Hhon_g00311.t1

Aa_trans.HG1.14:SLC38A10
Hhon_g03836.t1

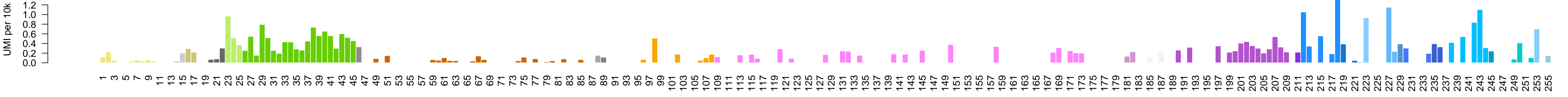**Aa_trans.HG1.16:like:SLC36A1/SLC36A2/SLC36A3/SLC36A4**
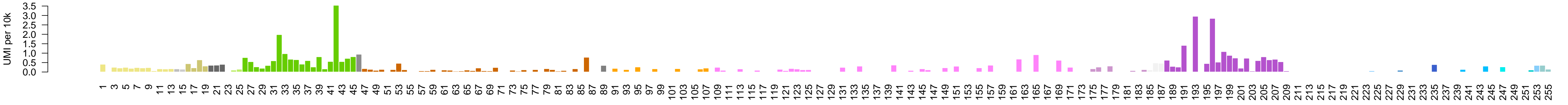**Hhon_g03002.t1**

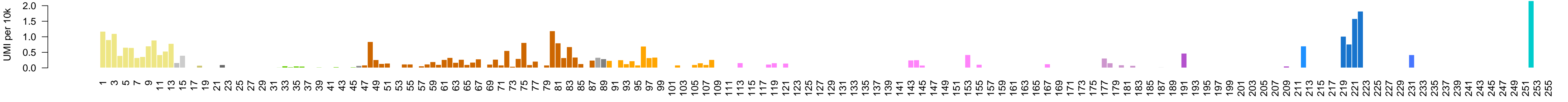**Aa_trans.HG1.2:SLC38A9**
Hhon_g00766.t1

Aa_trans.HG1.2:SLC38A9
Hhon_g00767.t1

Aa_trans.HG1.2:SLC38A9
Hhon_g07504.t1

Aa_trans.HG1.2:SLC38A9
Hhon_g07509.t1

Aa_trans.HG1.4:SLC38A11
Hhon_g07130.t1
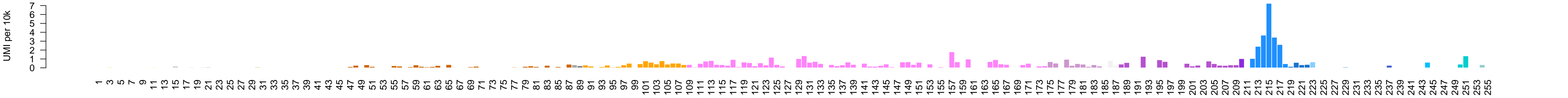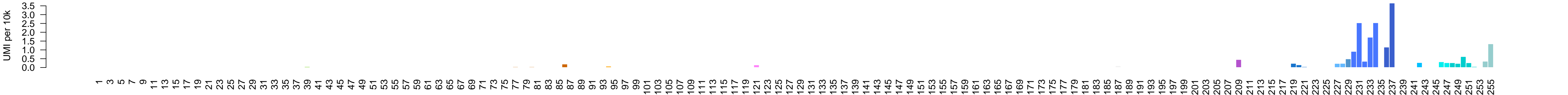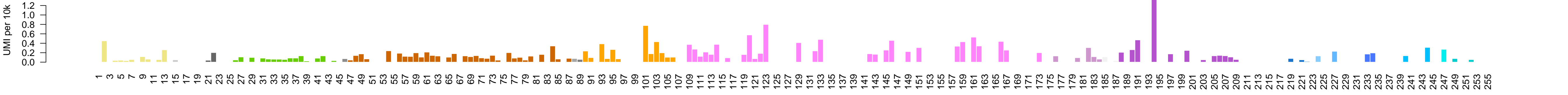
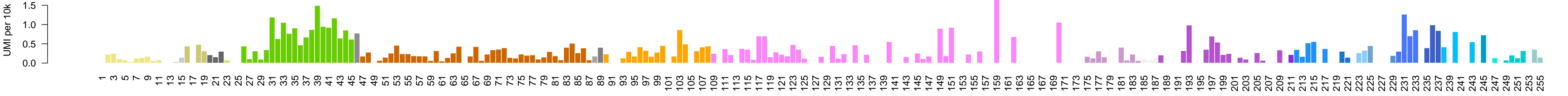Aa_trans.HG1.4:SLC38A11
Hhon_g07132.t1

Aa_trans.HG1.4:SLC38A11
Hhon_g07133.t1

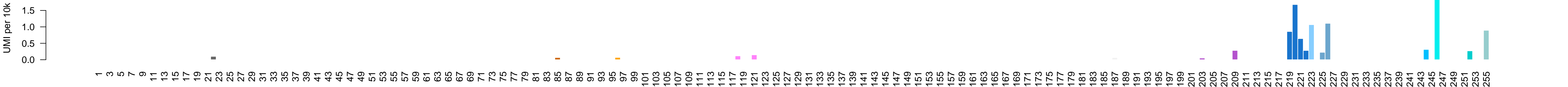Aa_trans.HG1.4:SLC38A11
Hhon_g11482.t1

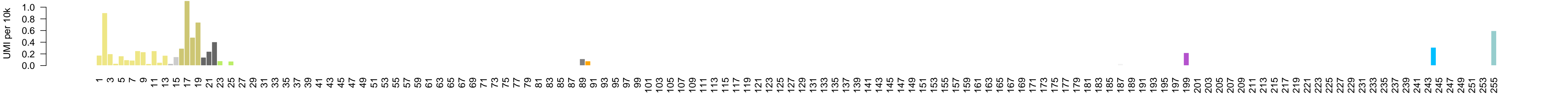Aa_trans.HG1.6:like:TMEM104
Hhon_g00158.t1

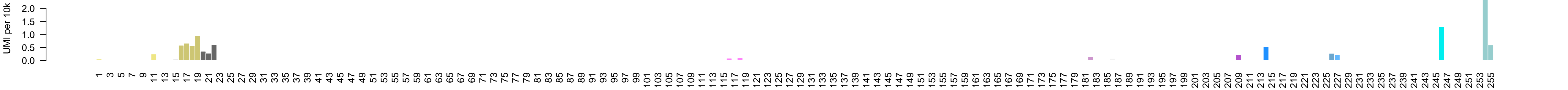ANF_receptor.HG1.18:like:GRM1/GRM2/GRM3/GRM4/GRM5/GRM6/GRM7/GRM8
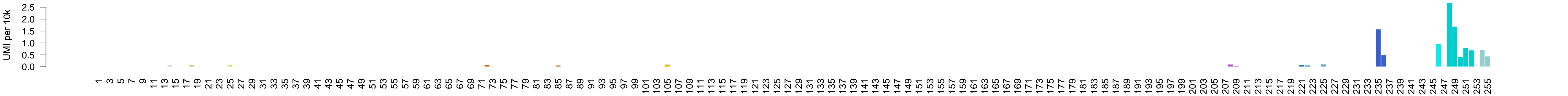Hhon_g05852.t1

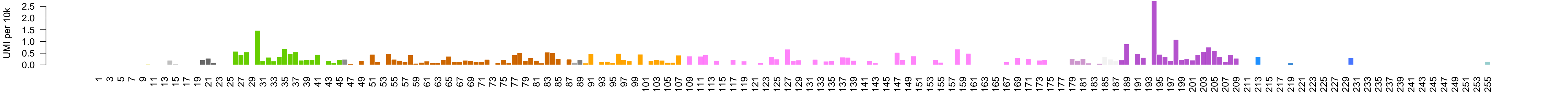**ANF_receptor.HG1.2:like:CASR/GPRC6A/TAS1R1/TAS1R2/TAS1R3**
Hhon_g05225.t1

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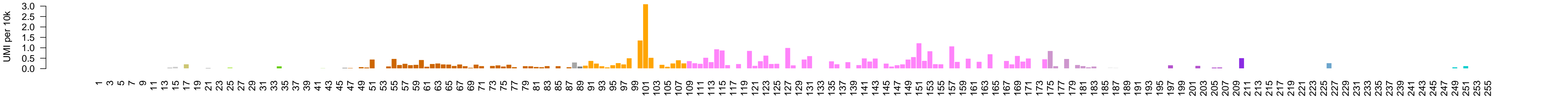**Hhon_g05228.t1**

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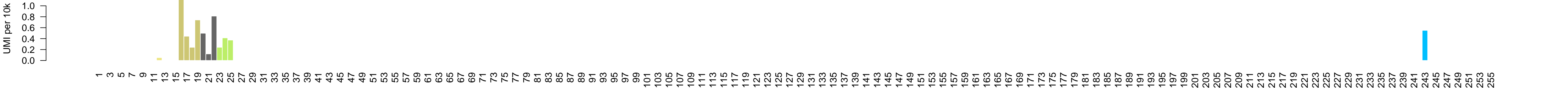**Hhon_g05229.t1**

ANF_receptor.HG1.2:like:CASR/GPRC6A/TAS1R1/TAS1R2/TAS1R3
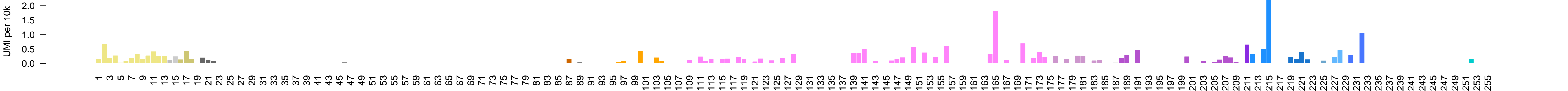**Hhon_g05230.t1**

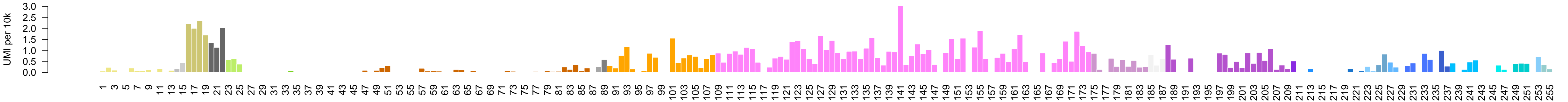ANF_receptor.HG1.21:like:CASR/GPRC6A/TAS1R1/TAS1R2/TAS1R3
Hhon_g00024.t1

ANF_receptor.HG1.38:like:CASR/GPRC6A/TAS1R1/TAS1R2/TAS1R3
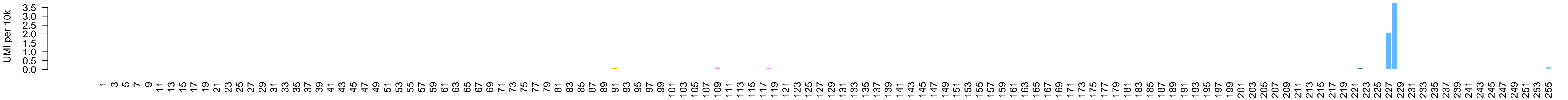**Hhon_g07940.t1**

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

ANF_receptor.HG1.43:like:CASR/GPRC6A/TAS1R1/TAS1R2/TAS1R3
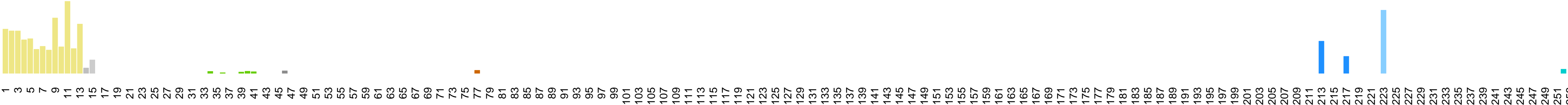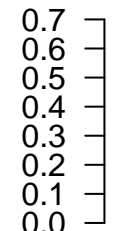Hhon_g00171.t1

ANF_receptor.HG1.48:like:CASR/GPRC6A/TAS1R1/TAS1R2/TAS1R3
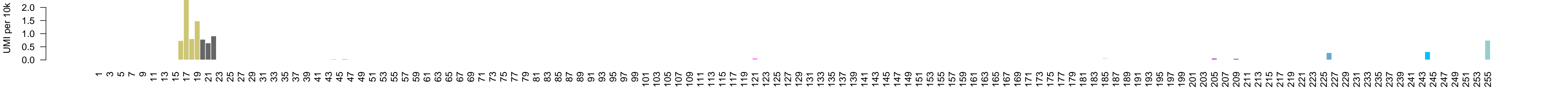**Hhon_g05664.t1**

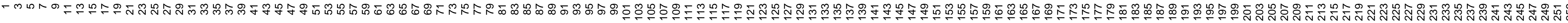**ANF_receptor.HG1.50:like:CASR/GPRC6A/TAS1R1/TAS1R2/TAS1R3**
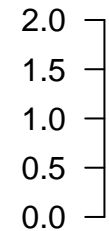**Hhon_g10147.t1**

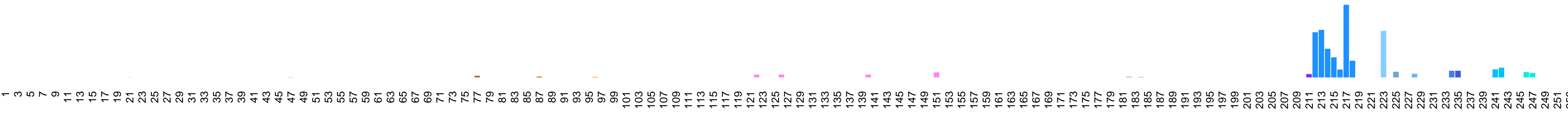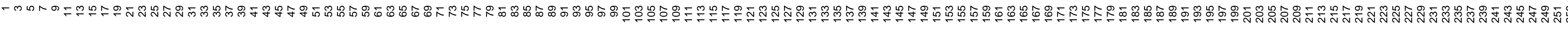ANF_receptor.HG1.51:like:CASR/GPRC6A/TAS1R1/TAS1R2/TAS1R3
Hhon_g10145.t1

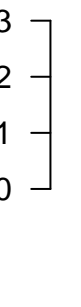**ANF_receptor.HG1.51:like:CASR/GPRC6A/TAS1R1/TAS1R2/TAS1R3**
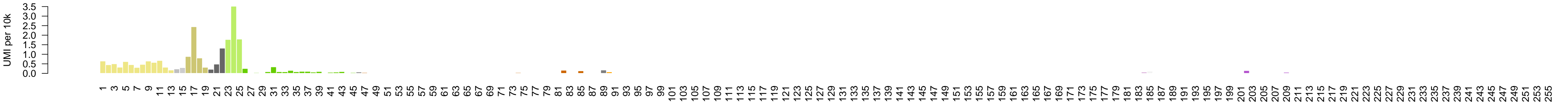**Hhon_g10146.t1**

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

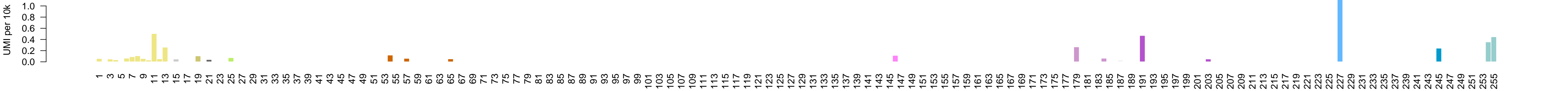**ANF_receptor.HG1.53:like:CASR/GPRC6A/TAS1R1/TAS1R2/TAS1R3**
Hhon_g00663.t1

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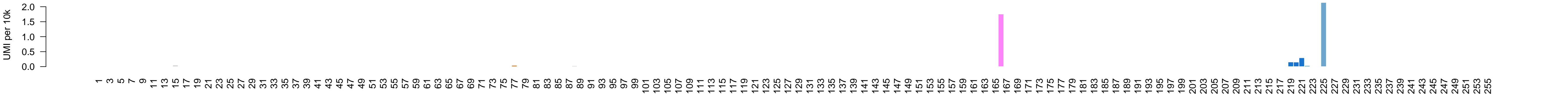Hhon_g10198.t1

ANF_receptor.HG1.55:like:CASR/GPRC6A/TAS1R1/TAS1R2/TAS1R3
Hhon_g10144.t1

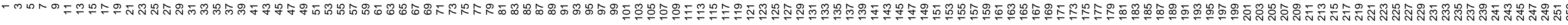ANF_receptor.HG1.58:like:CASR/GPRC6A/TAS1R1/TAS1R2/TAS1R3
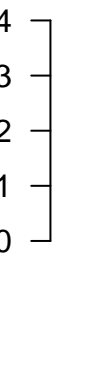Hhon_g10141.t1

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

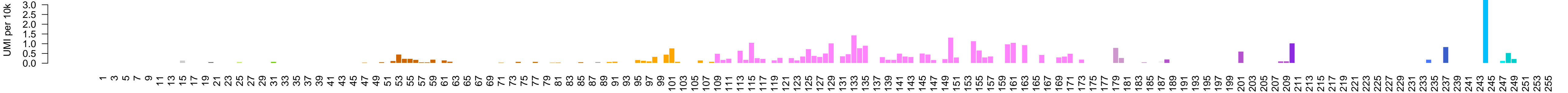**ANF_receptor.HG1.63:like:CASR/GPRC6A/TAS1R1/TAS1R2/TAS1R3**
Hhon_g03031.t1

ANF_receptor.HG1.66:like:CASR/GPRC6A/TAS1R1/TAS1R2/TAS1R3
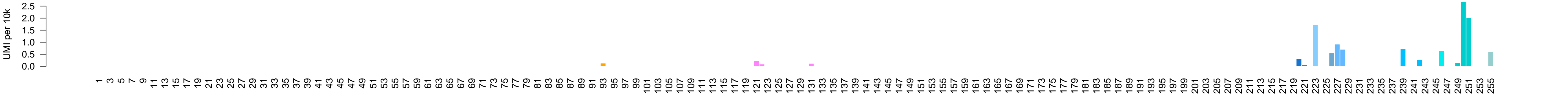**Hhon_g11146.t1**

ANF_receptor.HG2.10:like:GABBR1/GABBR2
Hhon_g04628.t1

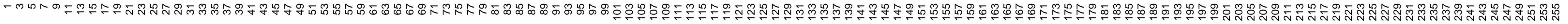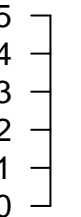ANF_receptor.HG2.10:like:GABBR1/GABBR2
Hhon_g04629.t1

ANF_receptor.HG2.10:like:GABBR1/GABBR2
Hhon_g05486.t1

ANF_receptor.HG2.10:like:GABBR1/GABBR2
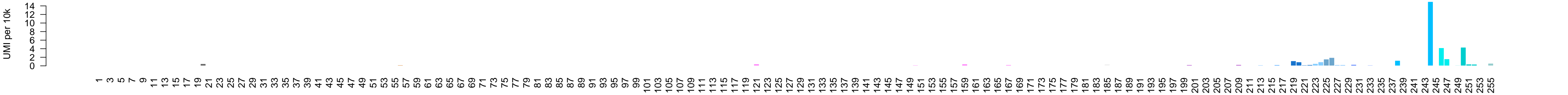Hhon_g11350.t1

ANF_receptor.HG2.11:like:GABBR1/GABBR2
Hhon_g07928.t1
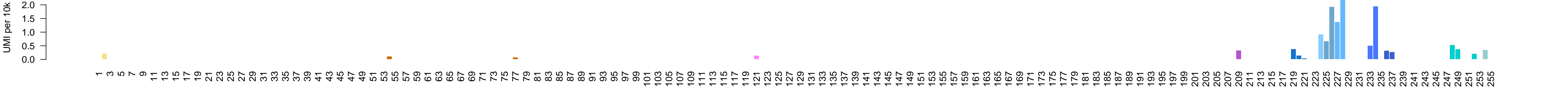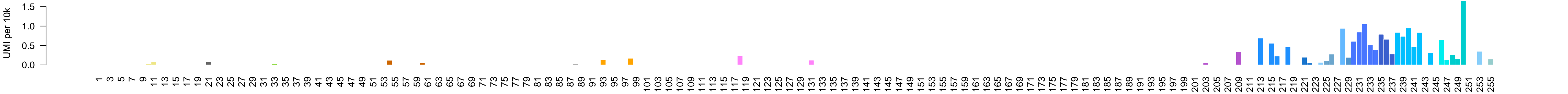
ANF_receptor.HG2.12:like:GABBR1/GABBR2
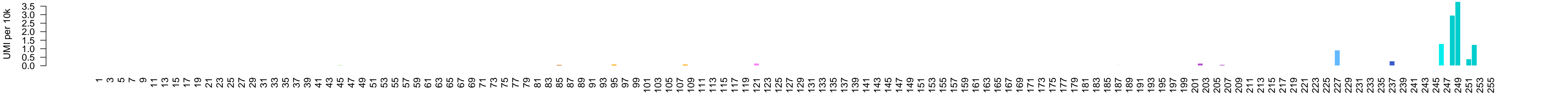Hhon_g07295.t1

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

ANF_receptor.HG2.14:like:GABBR1/GABBR2
Hhon_g05112.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
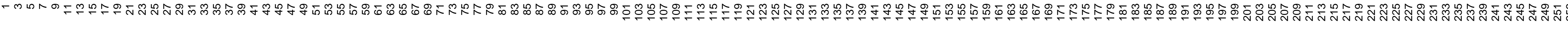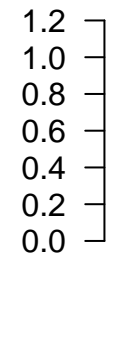
ANF_receptor.HG2.20:like:GABBR1/GABBR2
Hhon_g07966.t1

ANF_receptor.HG2.21:like:GABBR1/GABBR2
Hhon_g01249.t1
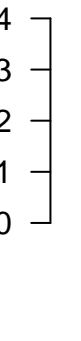
ANF_receptor.HG2.22:like:GABBR1/GABBR2
Hhon_g01250.t1

ANF_receptor.HG2.23:like:GABBR1/GABBR2
Hhon_g11450.t1
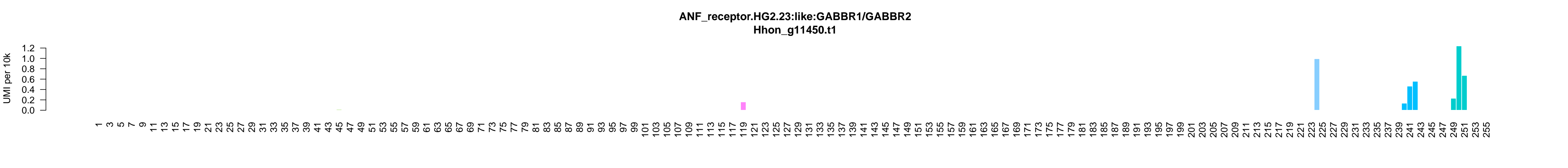
ANF_receptor.HG2.23:like:GABBR1/GABBR2
Hhon_g11851.t1
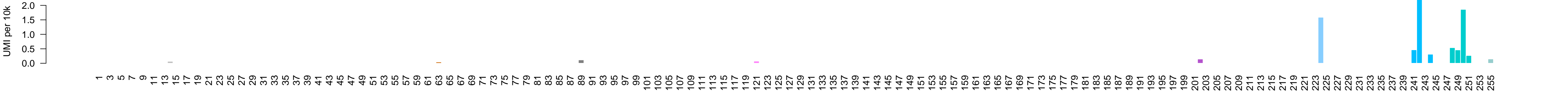
ANF_receptor.HG2.24:like:GABBR1/GABBR2
Hhon_g11451.t1

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_g10005.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.HG2.30:GABBR2
Hhon_g06259.t1

ANF_receptor.HG2.31:like:GABBR1/GABBR2
Hhon_g07965.t1
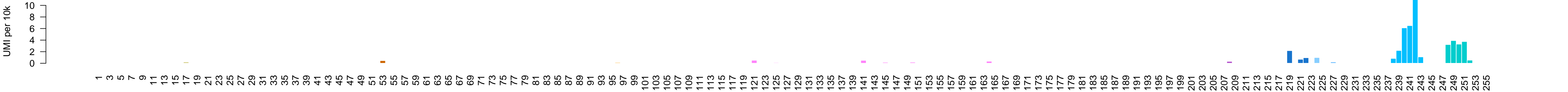
ANF_receptor.HG2.32:like:GABBR1/GABBR2
Hhon_g07690.t1

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

ANF_receptor.HG2.4:like:GABBR1/GABBR2
Hhon_g09349.t1

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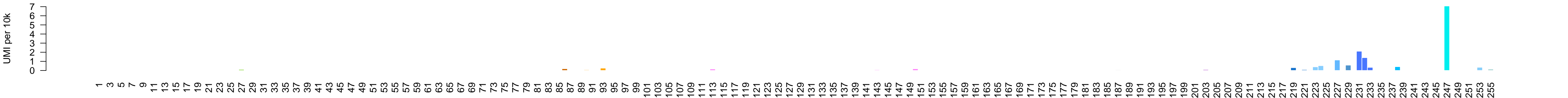
ANF_receptor.HG2.4:like:GABBR1/GABBR2
Hhon_g09351.t1

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
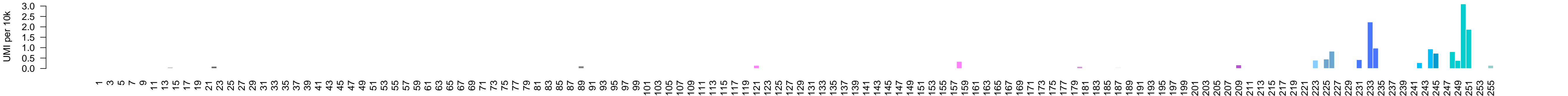
ANF_receptor.HG2.5:like:GABBR1/GABBR2
Hhon_g05295.t1
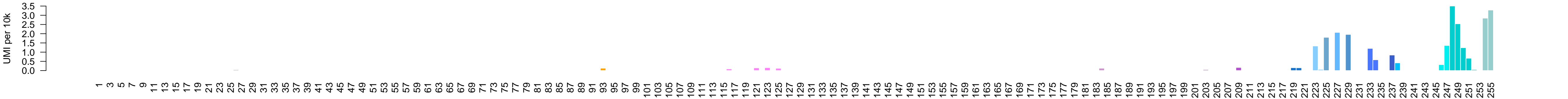
ANF_receptor.HG2.5:like:GABBR1/GABBR2
Hhon_g05296.t1

ANF_receptor.HG2.5:like:GABBR1/GABBR2
Hhon_g05297.t1

ANF_receptor.HG2.5:like:GABBR1/GABBR2
Hhon_g05298.t1

ANF_receptor.HG2.5:like:GABBR1/GABBR2
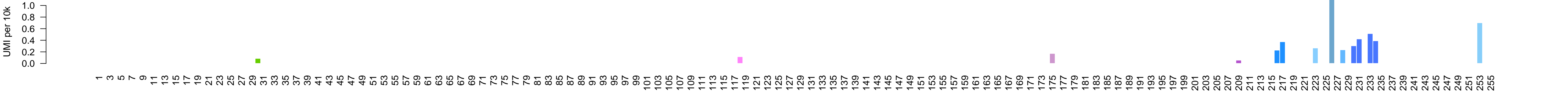**Hhon_g05728.t1**

ANF_receptor.HG2.5:like:GABBR1/GABBR2
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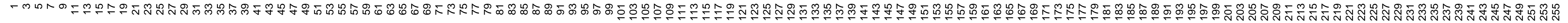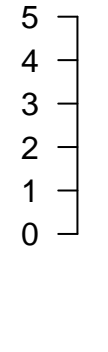
ANF_receptor.HG2.51:like:GABBR1/GABBR2
Hhon_g01975.t1

ANF_receptor.HG2.52:like:GABBR1/GABBR2
Hhon_g01976.t1
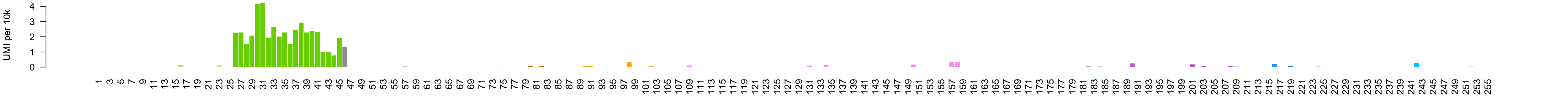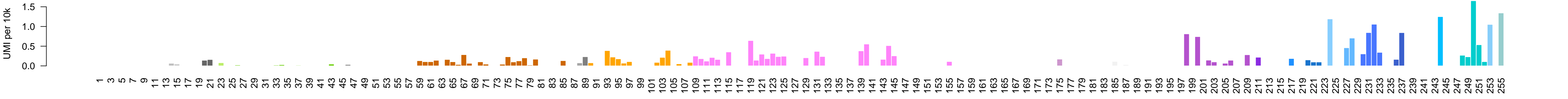
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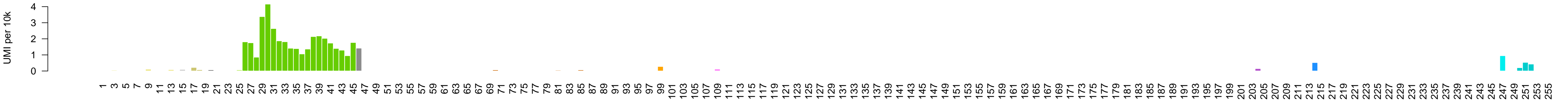
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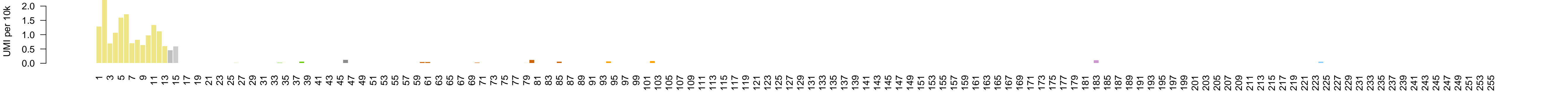
ANF_receptor.HG3.4:like:GRIA1/GRIA2/GRIA3/GRIA4/GRIK1/GRIK2/GRIK3/GRIK4/GRIK5
Hhon_g02946.t1
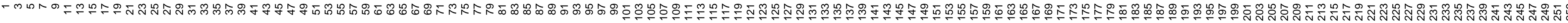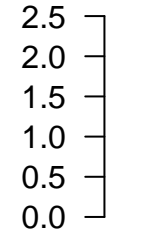
ANF_receptor.HG3.4:like:GRIA1/GRIA2/GRIA3/GRIA4/GRIK1/GRIK2/GRIK3/GRIK4/GRIK5
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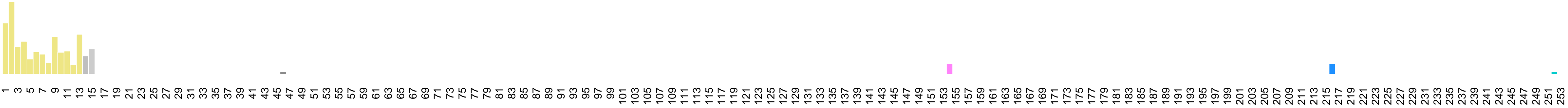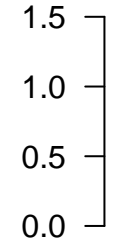
ANF_receptor.HG3.4:like:GRIA1/GRIA2/GRIA3/GRIA4/GRIK1/GRIK2/GRIK3/GRIK4/GRIK5
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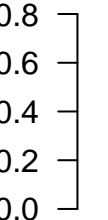
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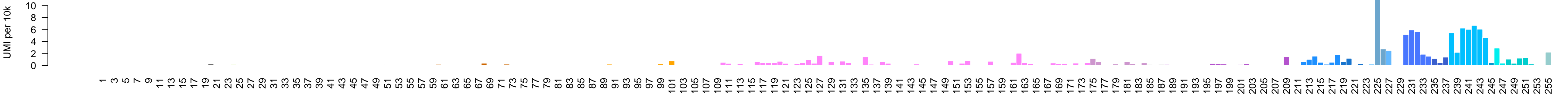
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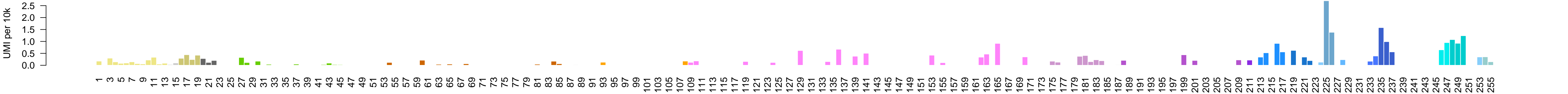
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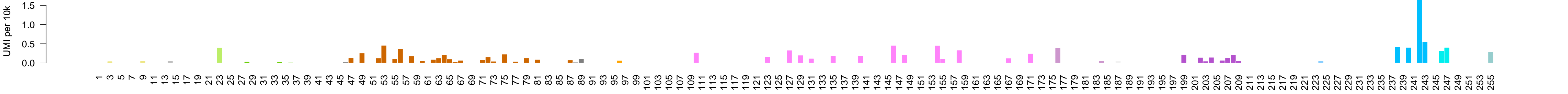
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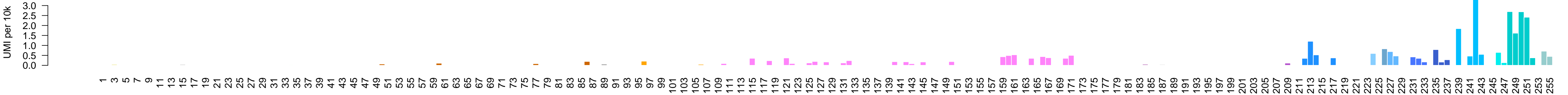
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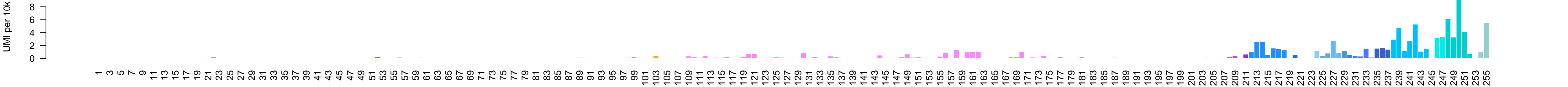
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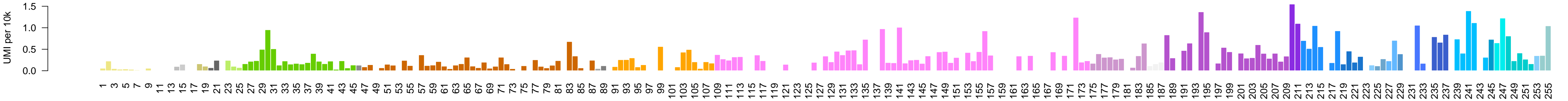
Caps.HG1.1:UNC13A/UNC13B/UNC13C;Synaptotagmin.HG1.66:UNC13A/UNC13C;Unc13.HG1.1:UNC13A/UNC13B/UNC13C
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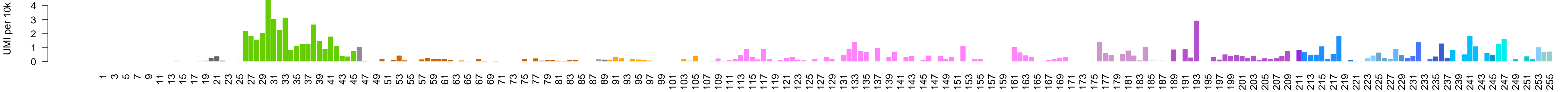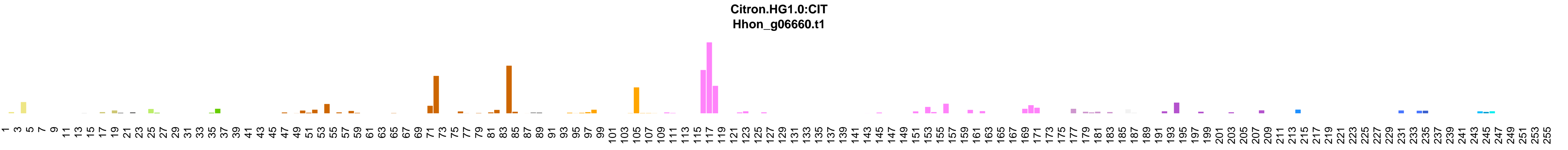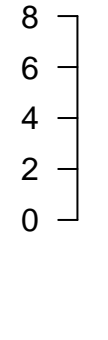
Citron.HG1.0:CIT
Hhon_g06660.t1

Citron.HG1.1:CDC42BPA/CDC42BPB/CDC42BPG
Hhon_g06582.t1

Citron.HG1.6:VPS39
Hhon_g06574.t1
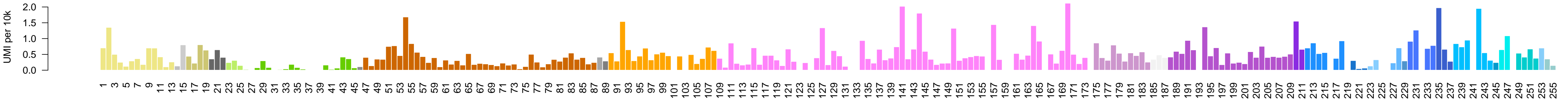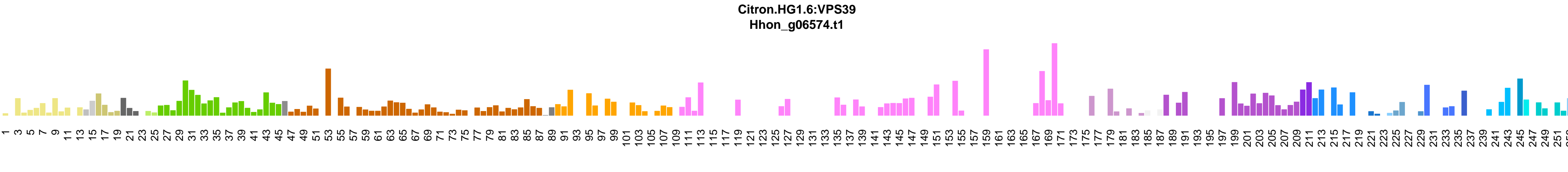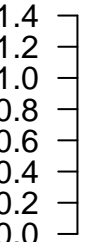
COesterase.HG1.1:like:AADAC/AADACL2/ACHE/BCHE/CEL/CES1/CES2/CES3/CES4A/CES5A/NLGN1/NLGN2/NLGN3/NLGN4X/NLGN4Y/TG

Hhon_g09097.t1
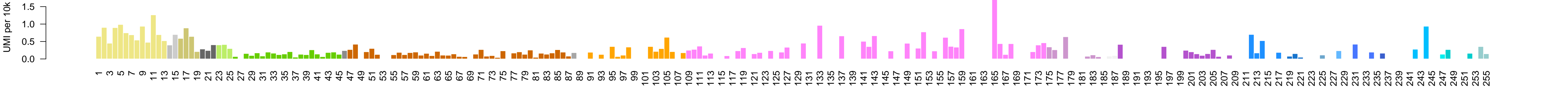
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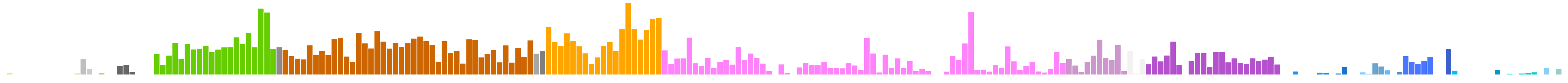
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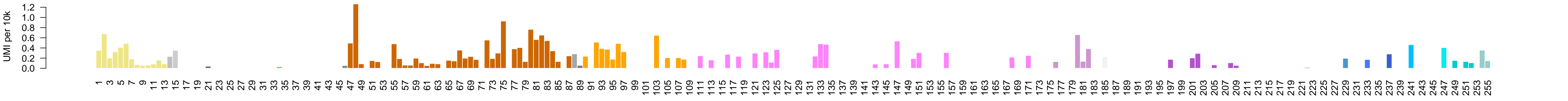
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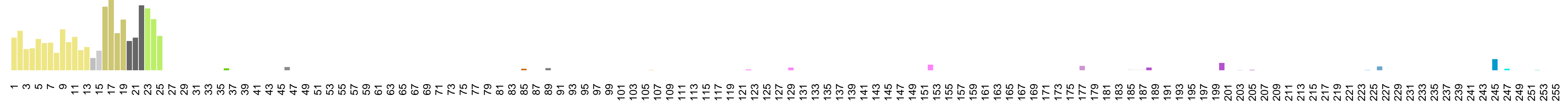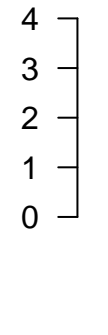
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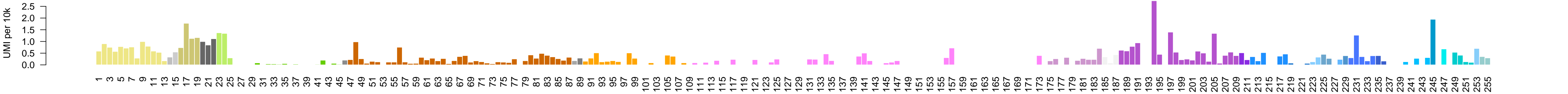
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Hhon_g01147.t1

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Hhon_g01148.t1

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

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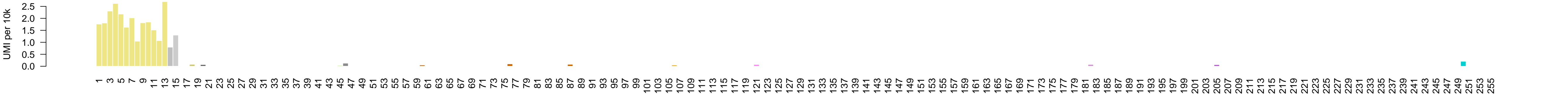
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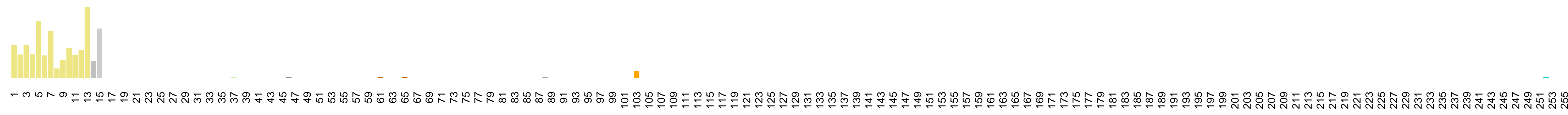
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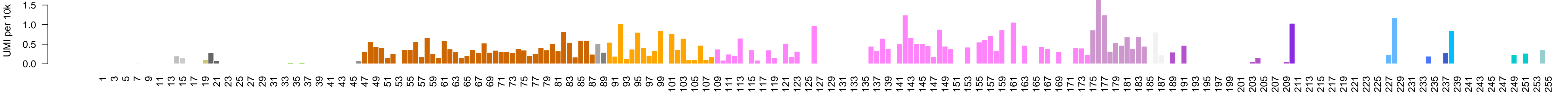
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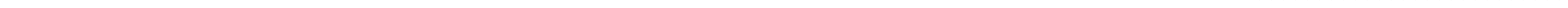
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COesterase.HG1.16:like:ACHE/BCHE/CEL/CES1/CES2/CES3/CES4A/CES5A/TG

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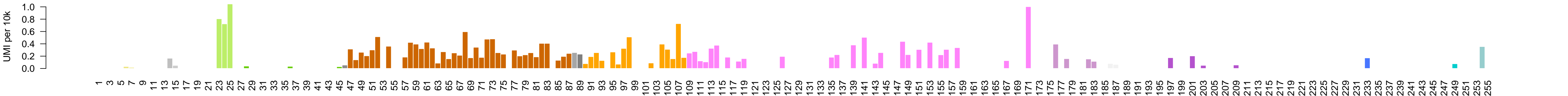
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Hhon_g01159.t1

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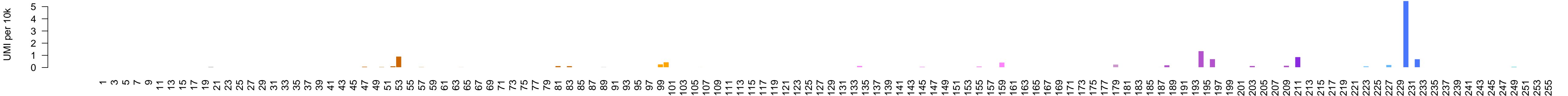
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Hhon_g01161.t1

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Hhon_g01162.t1

COesterase.HG1.16:like:ACHE/BCHE/CEL/CES1/CES2/CES3/CES4A/CES5A/TG
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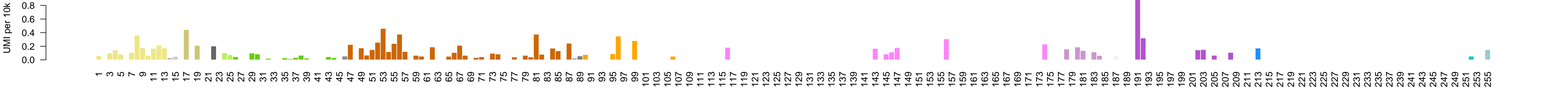
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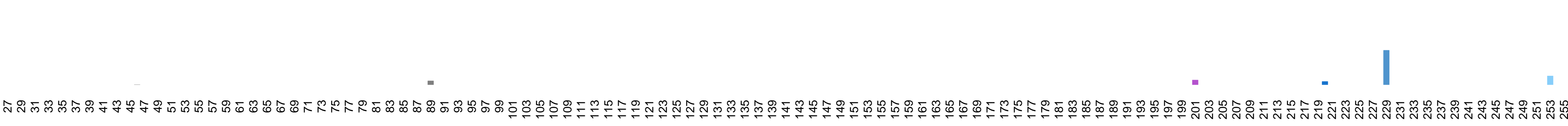
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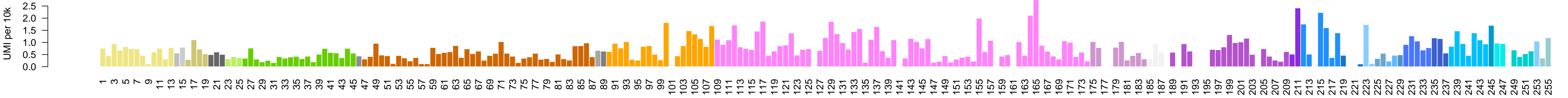
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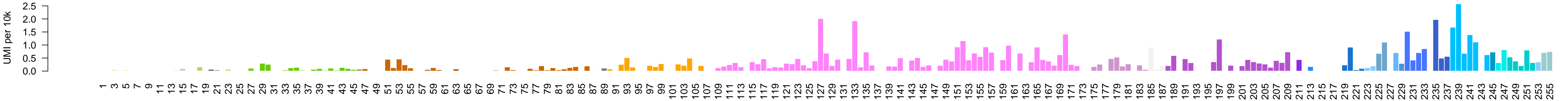
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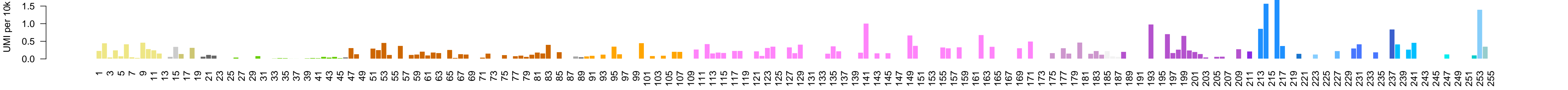
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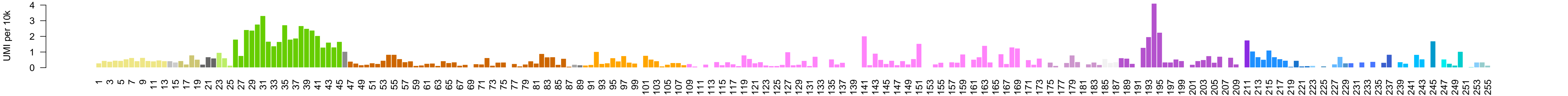
FERM_M.HG1.22:PTPN14/PTPN21;Y_phosphatase.HG1.37:PTPN14/PTPN21
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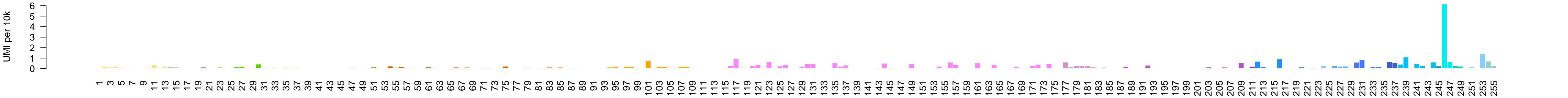
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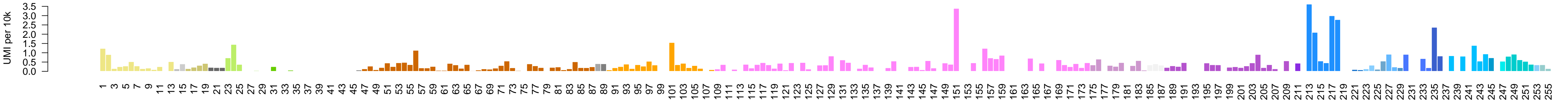
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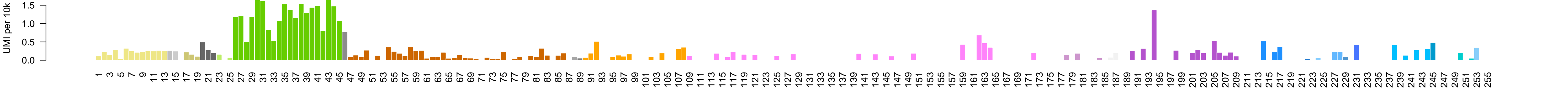
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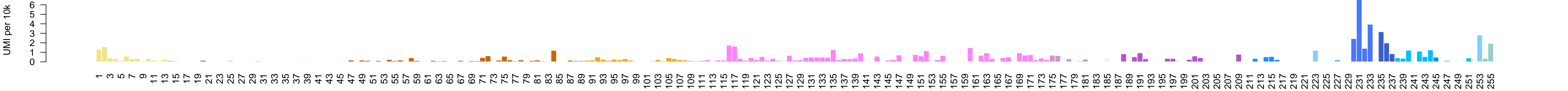
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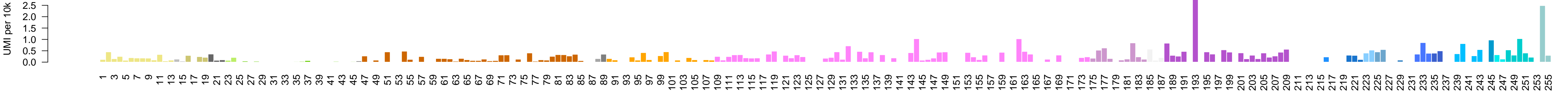
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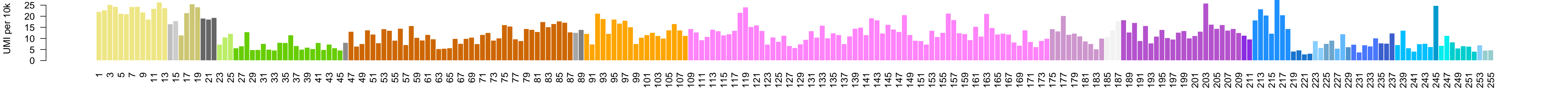
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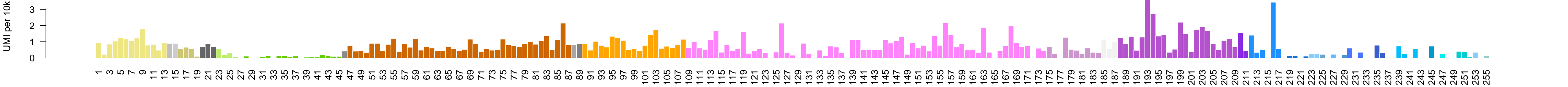
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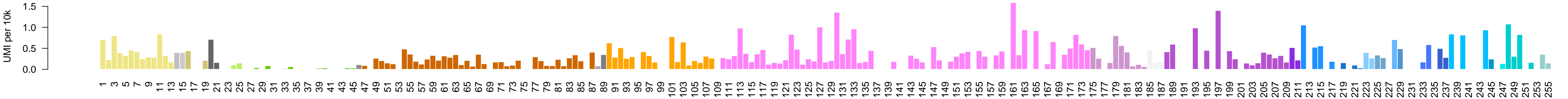
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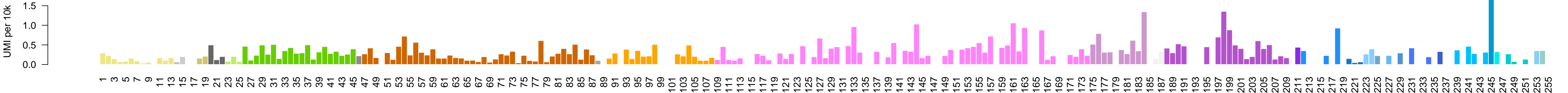
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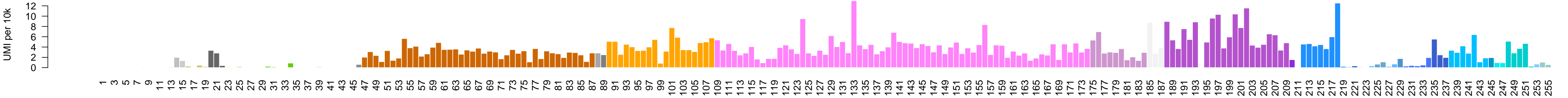
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FERM_M.HG1.40:EZR/MSN/RDX
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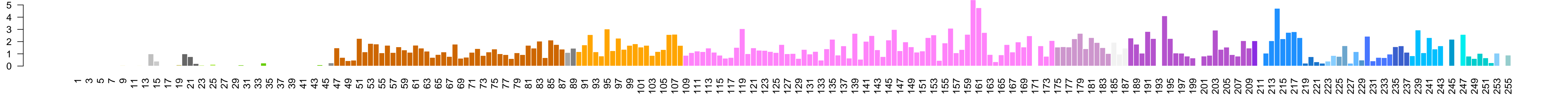
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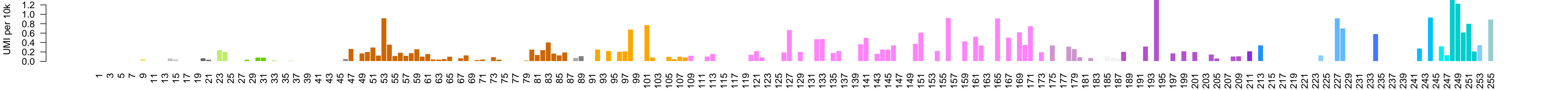
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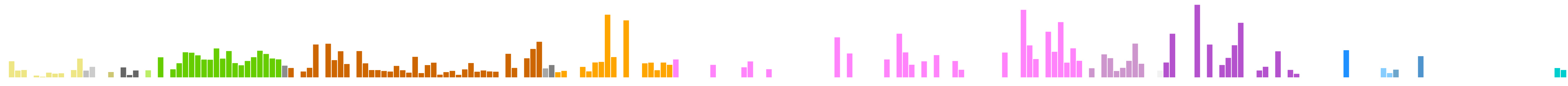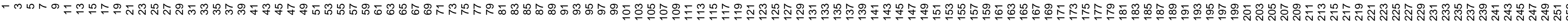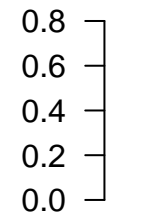
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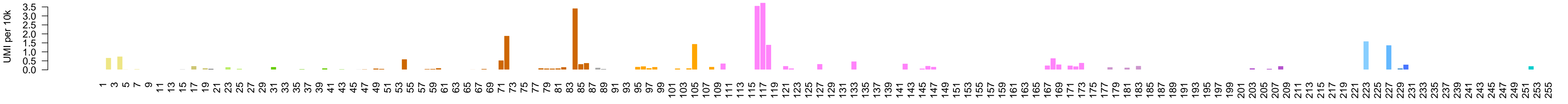
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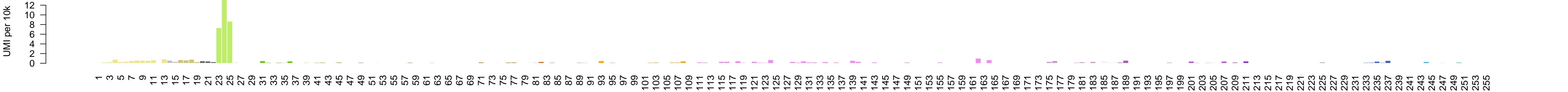
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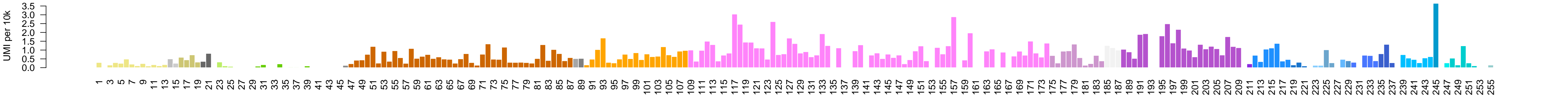
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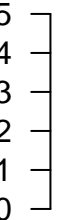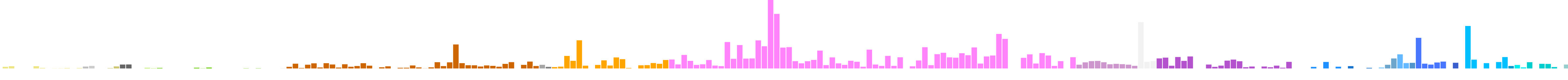
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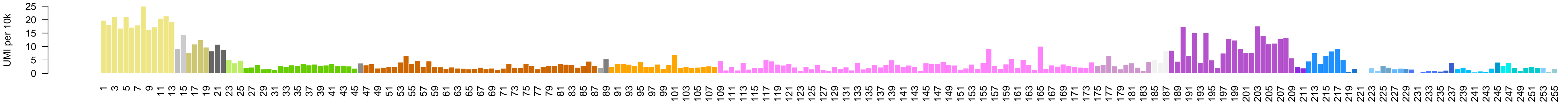
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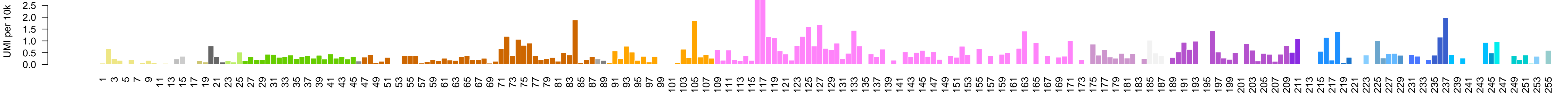
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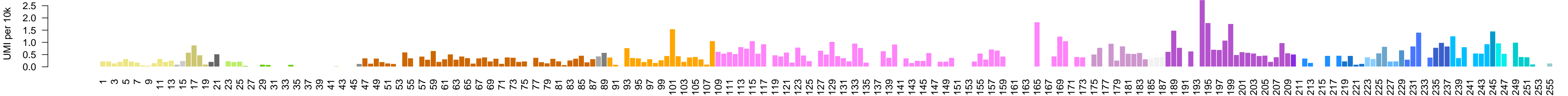
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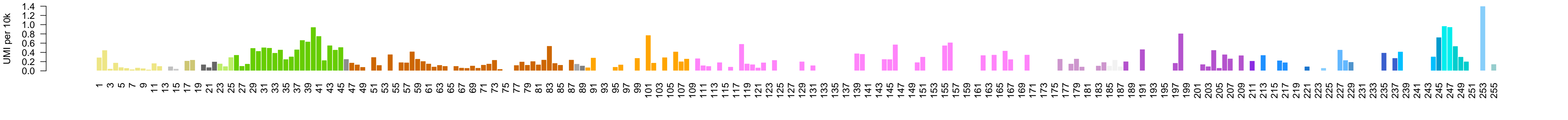
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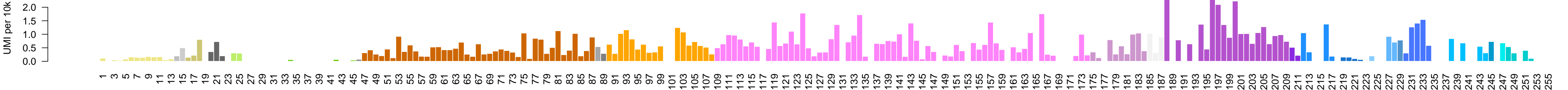
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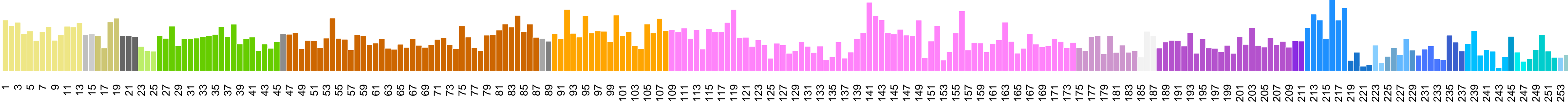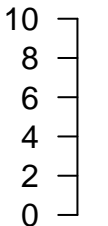
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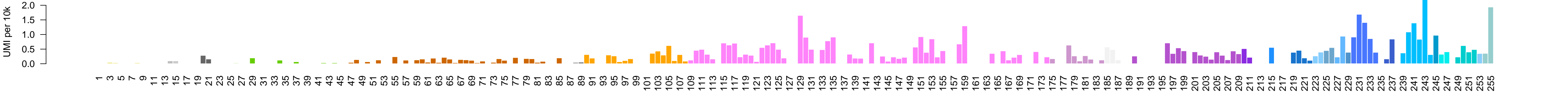
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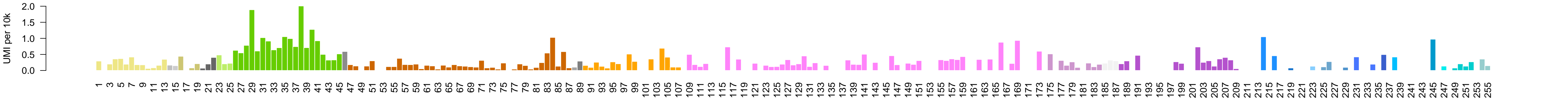
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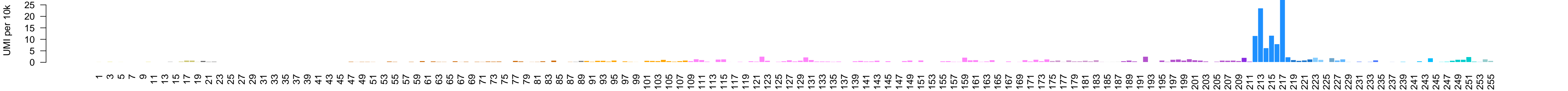
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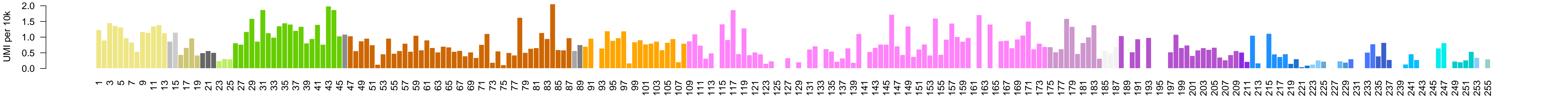
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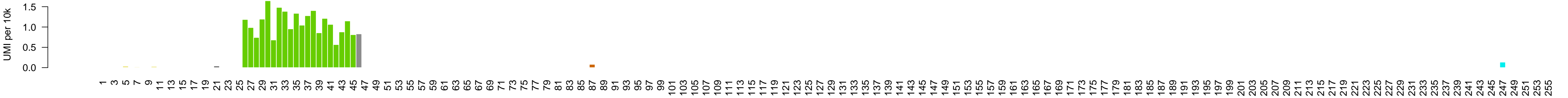
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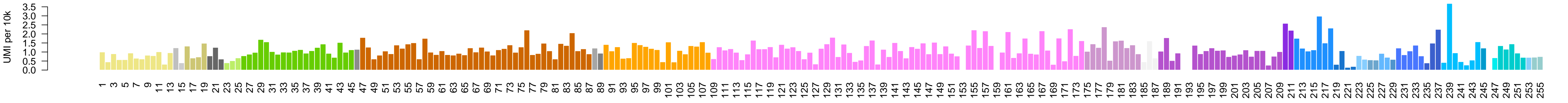
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Hhon_g02578.t1

MARVEL.HG1.8:like:OCLN/SYNPR/SYP/SYPL1/SYPL2
Hhon_g02580.t1

MARVEL.HG2.0:SYNGR1/SYNGR2/SYNGR4
Hhon_g01440.t1

MARVEL.HG2.0:SYNGR1/SYNGR2/SYNGR4
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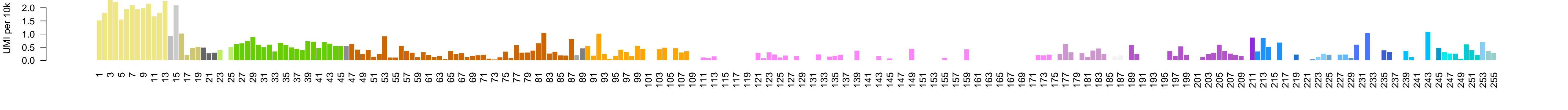
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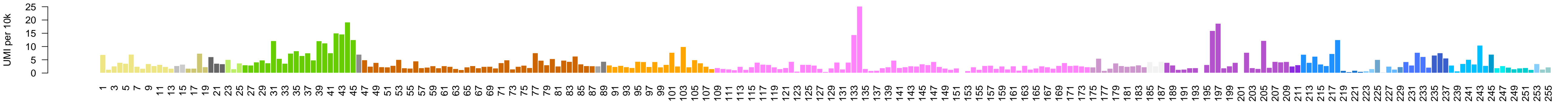
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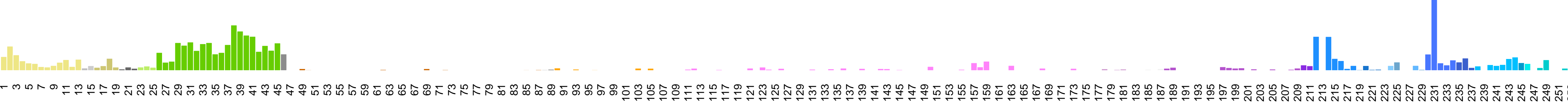
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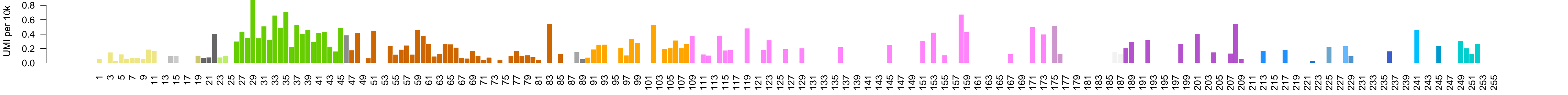
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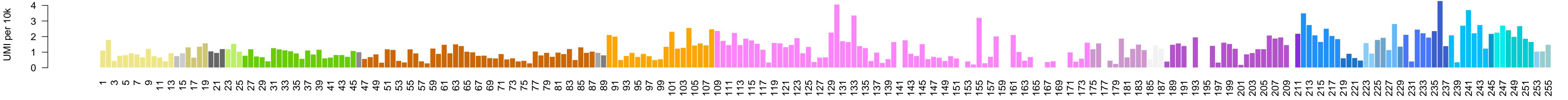
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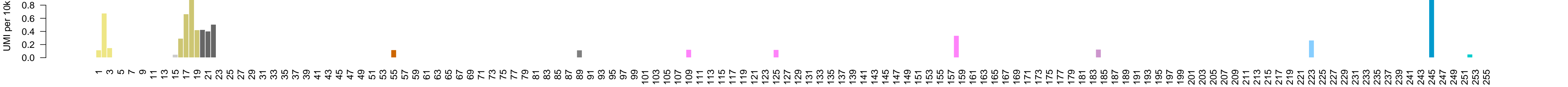
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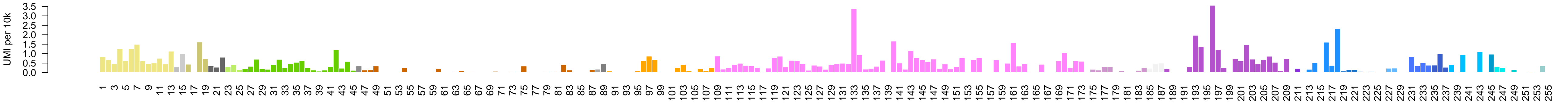
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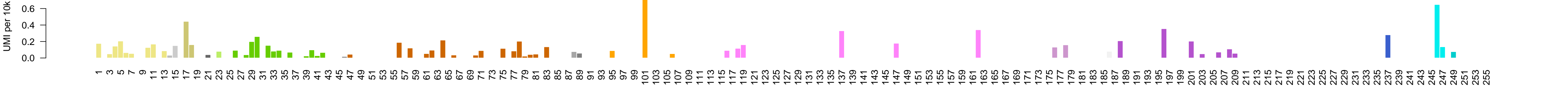
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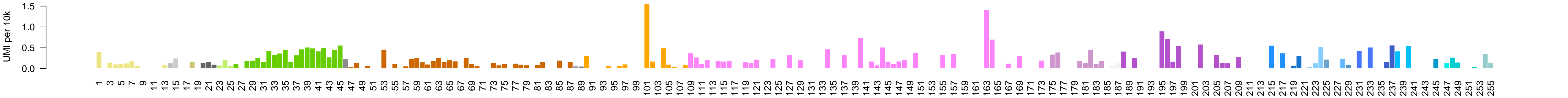
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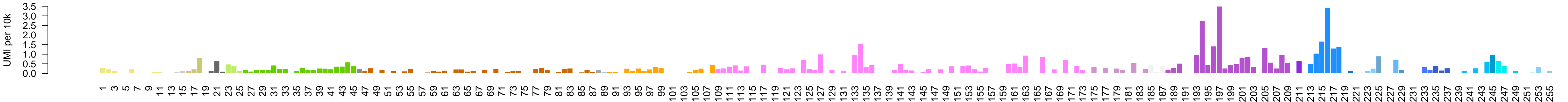
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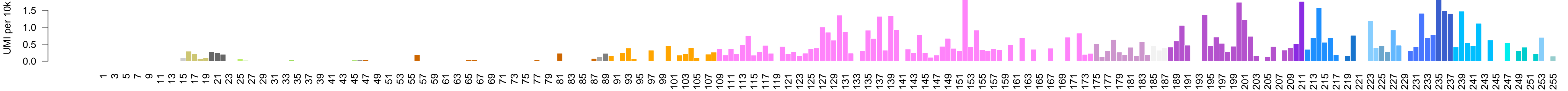
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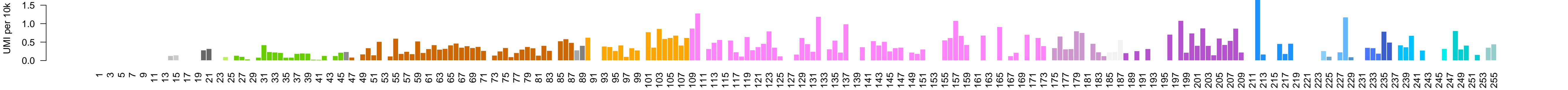
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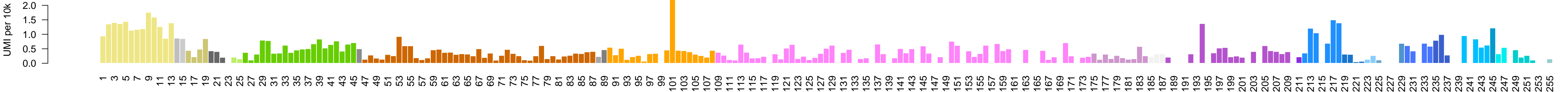
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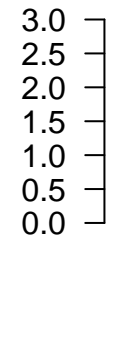
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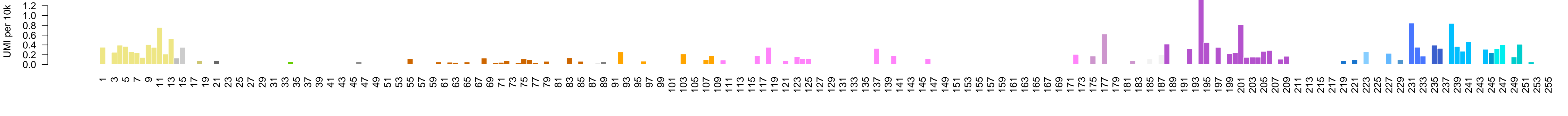
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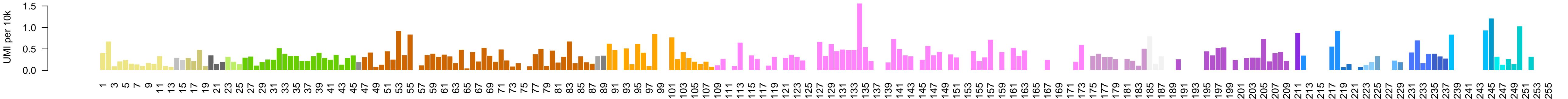
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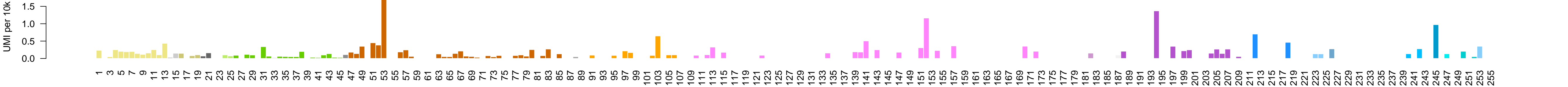
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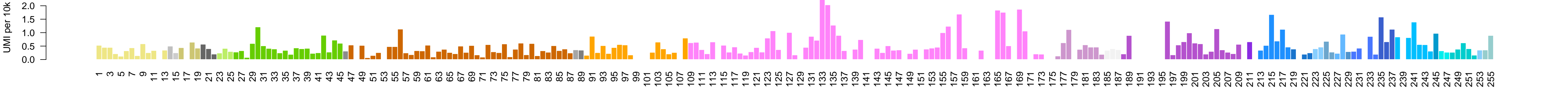
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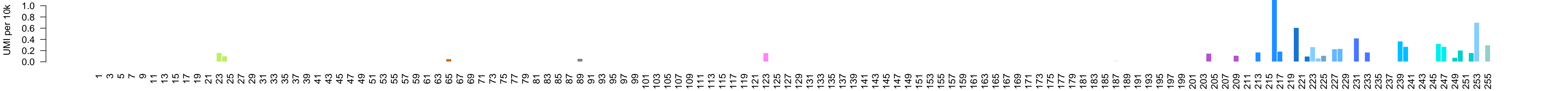
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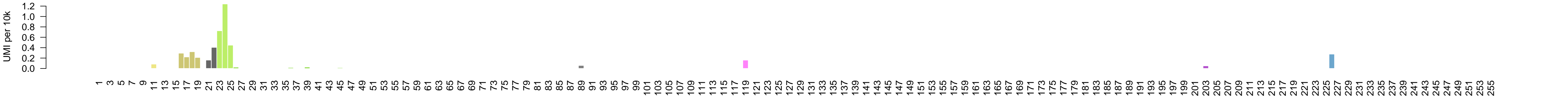
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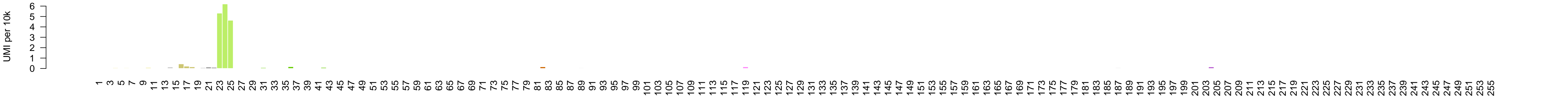
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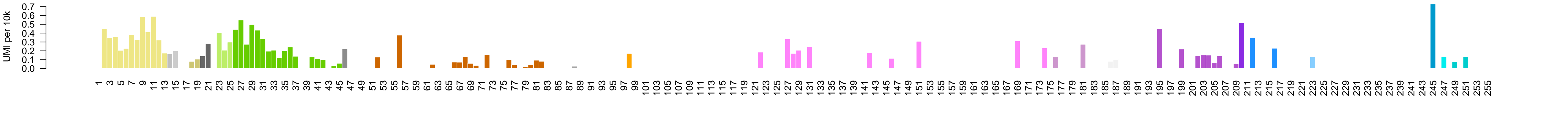
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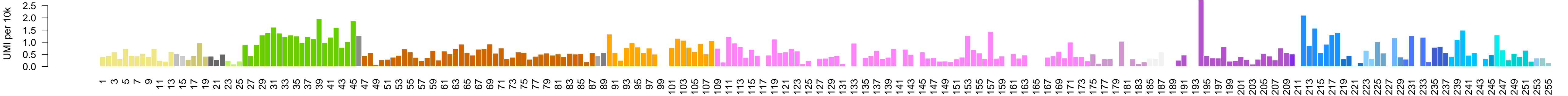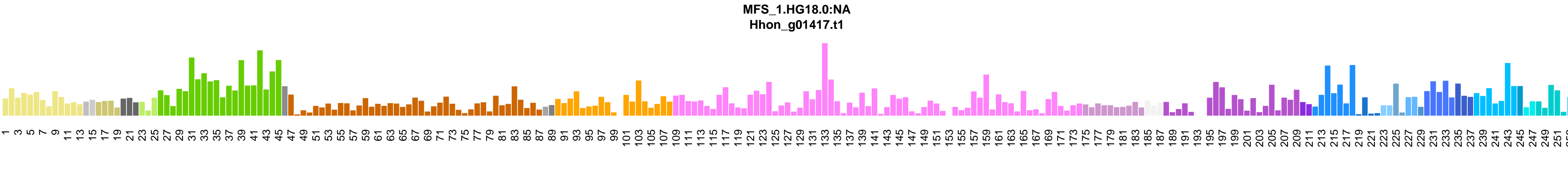
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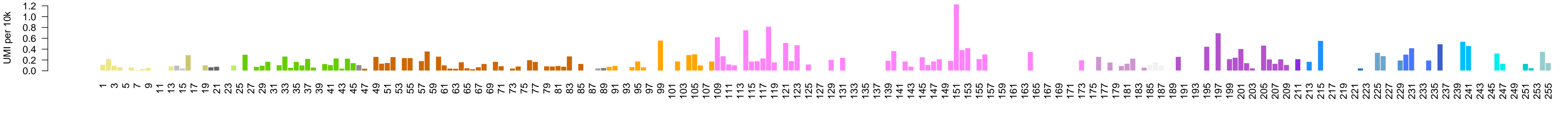
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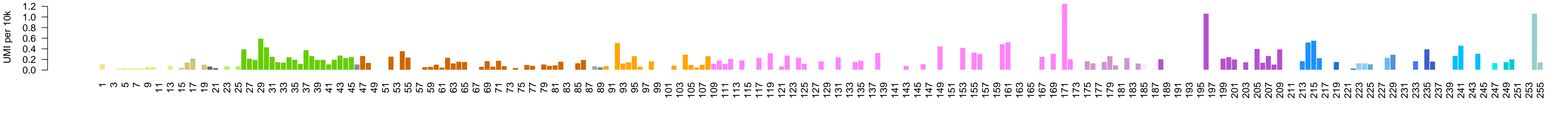
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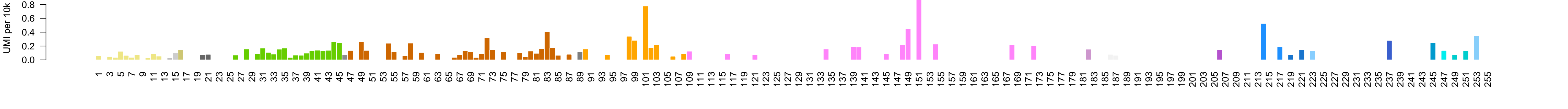
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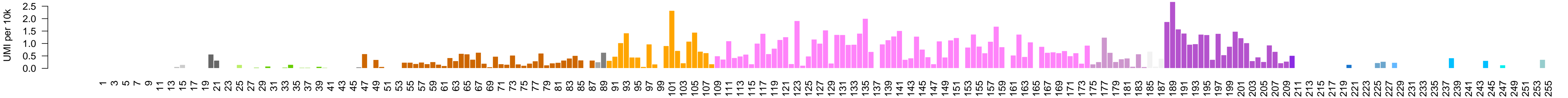
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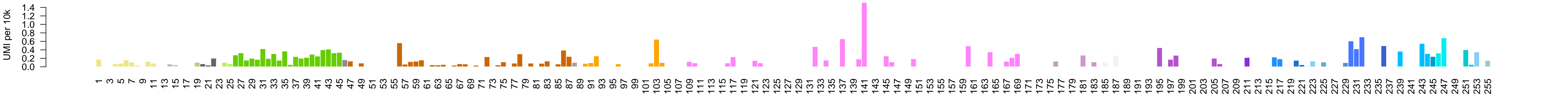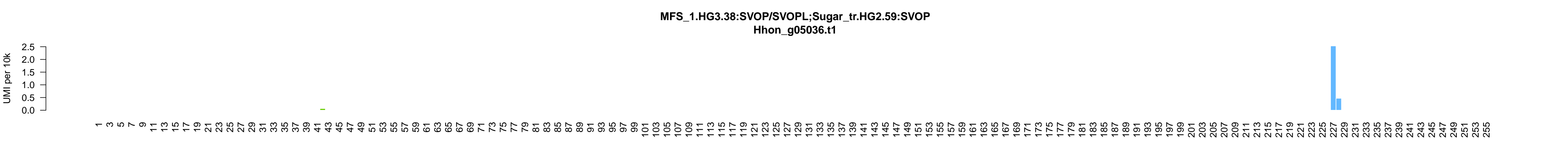
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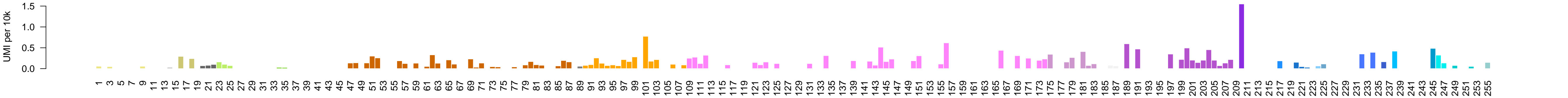
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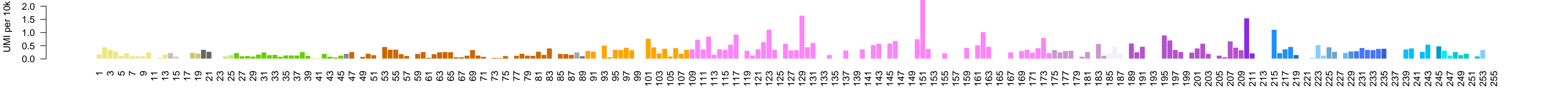
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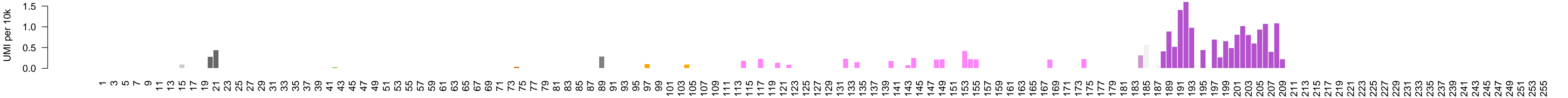
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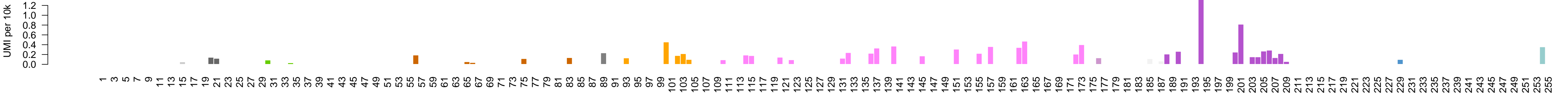
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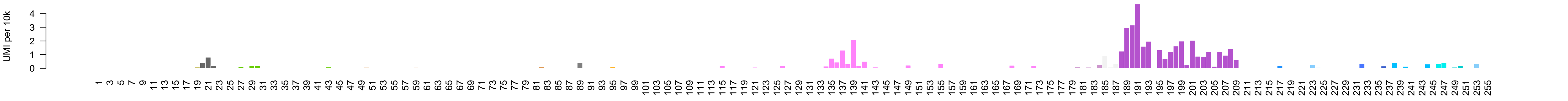
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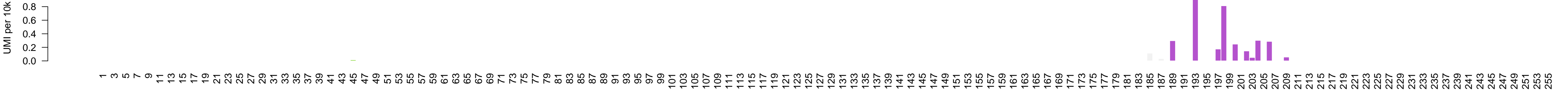
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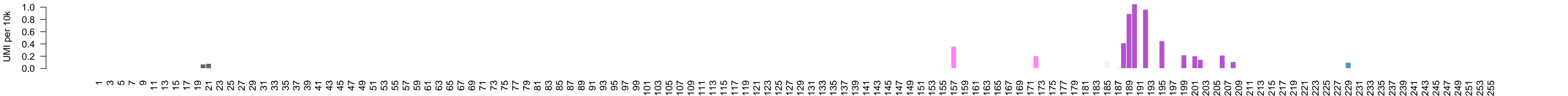
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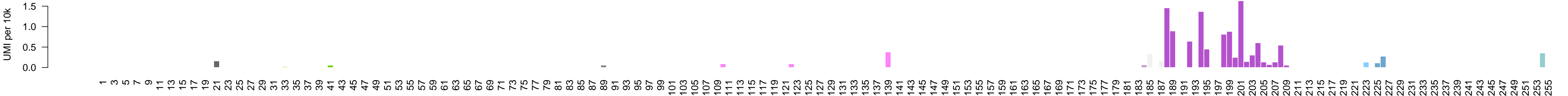
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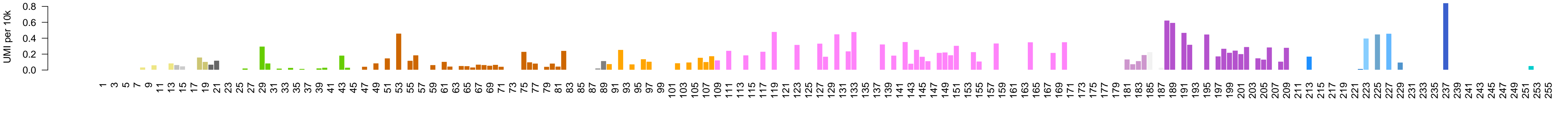
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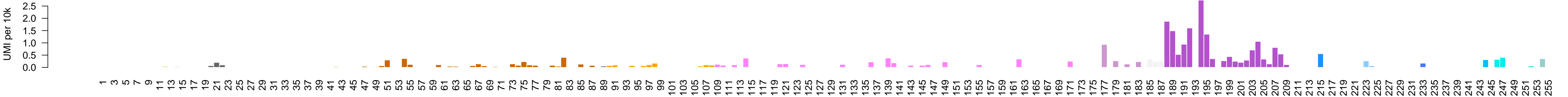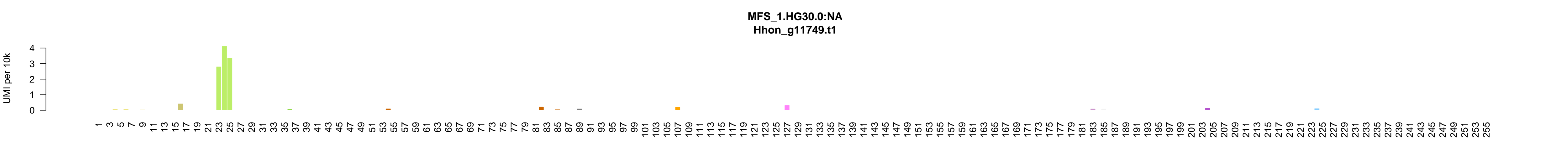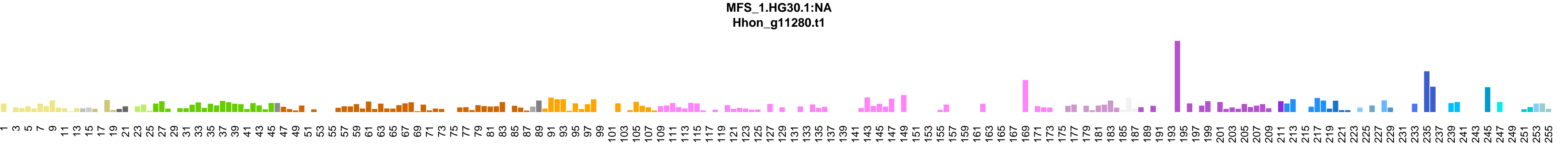
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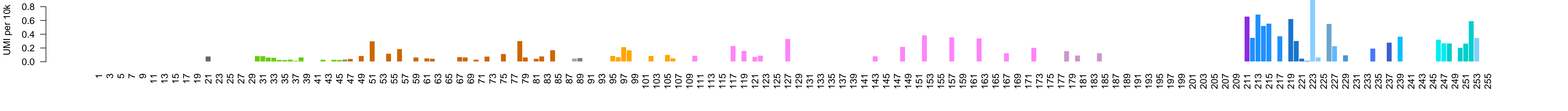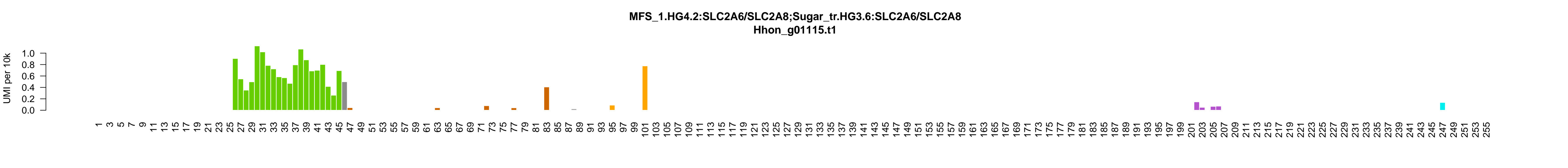
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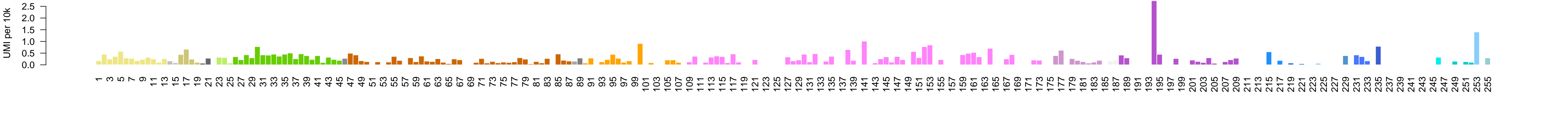
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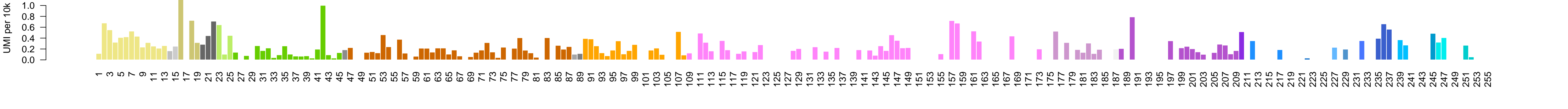
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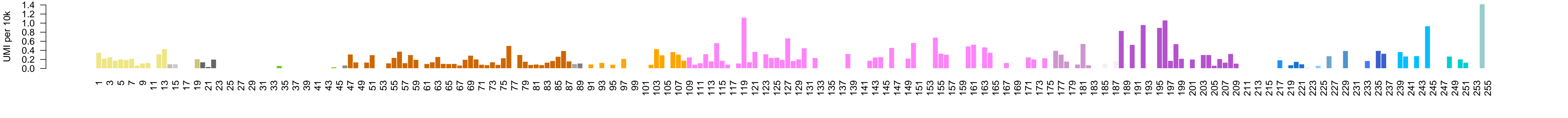
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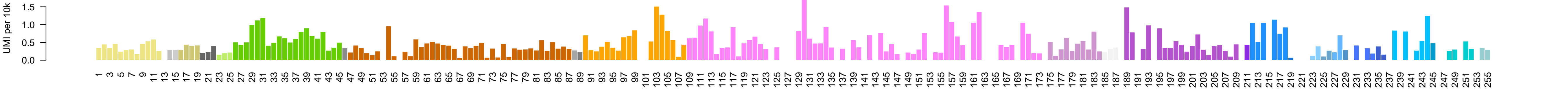
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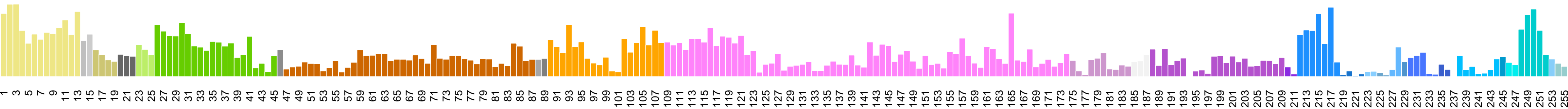
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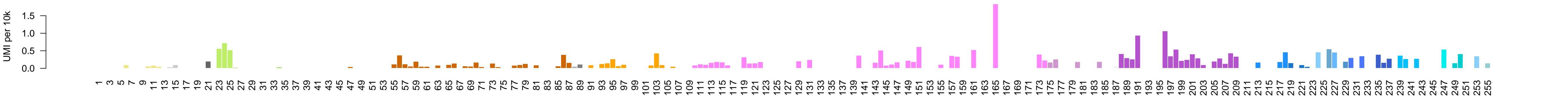
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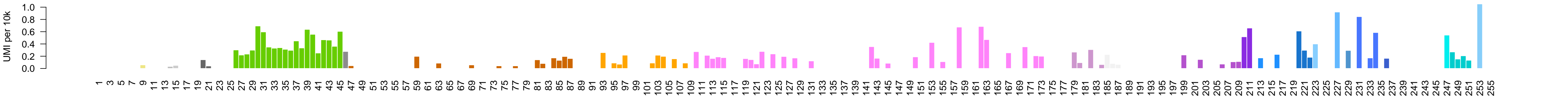
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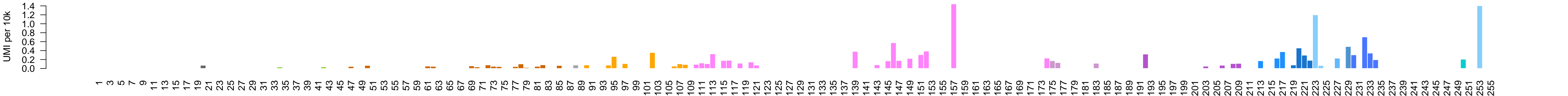
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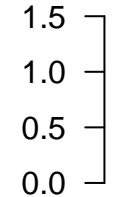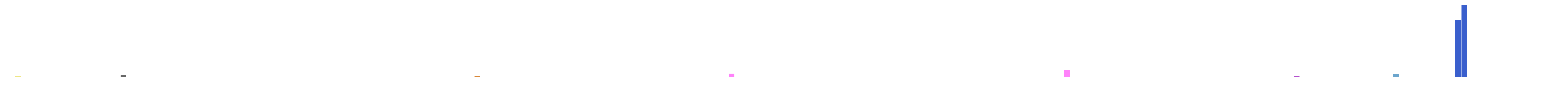
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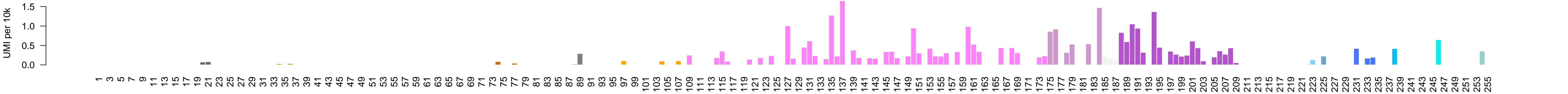
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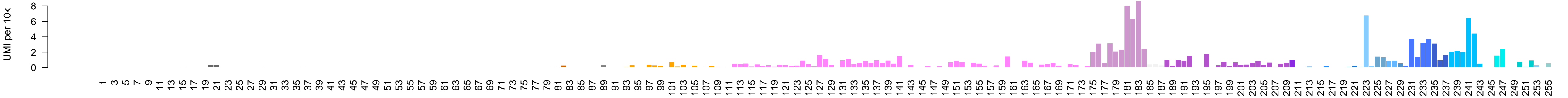
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Hhon_g03315.t1

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

Hhon_g05032.t1

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Hhon_g05033.t1

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Hhon_g05175.t1

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Hhon_g06187.t1

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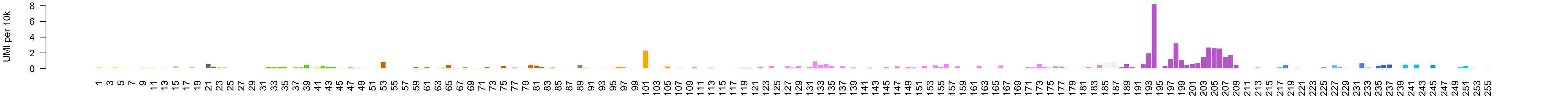
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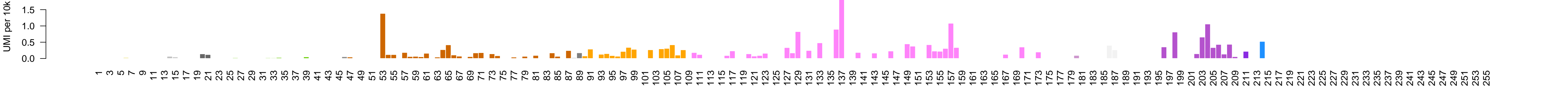
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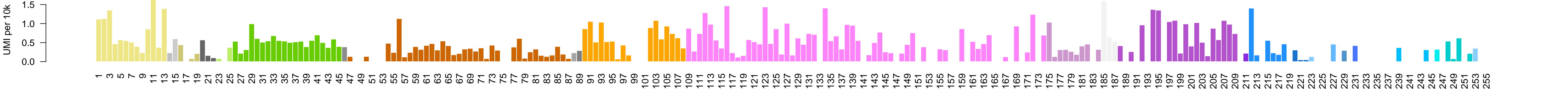
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Hhon_g06196.t1

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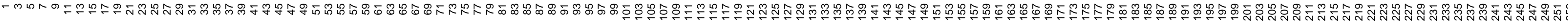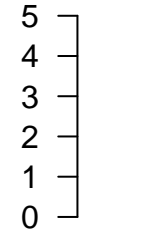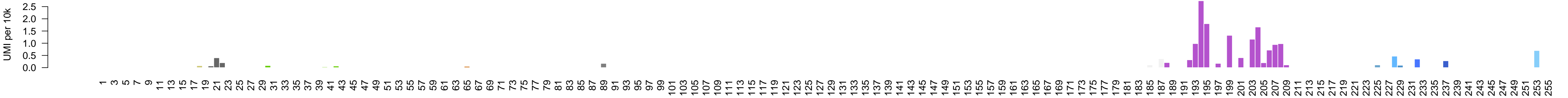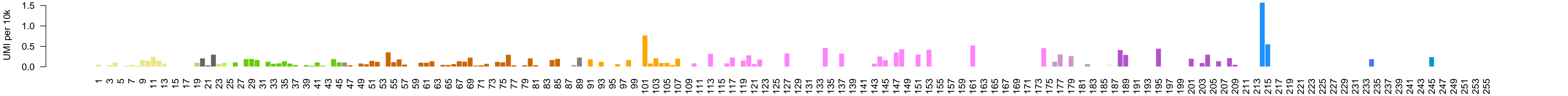
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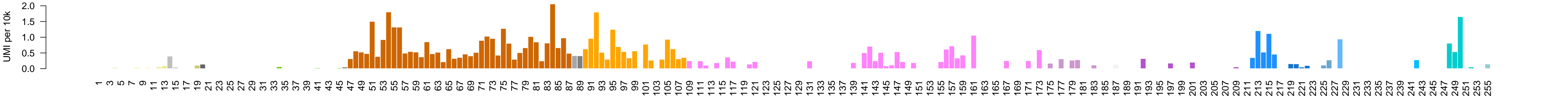
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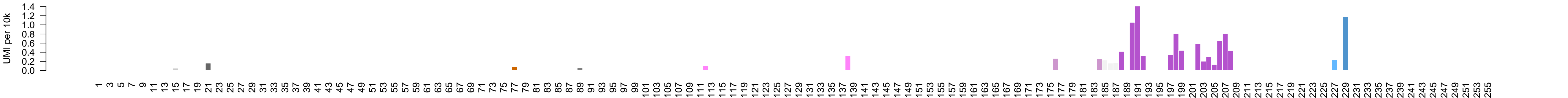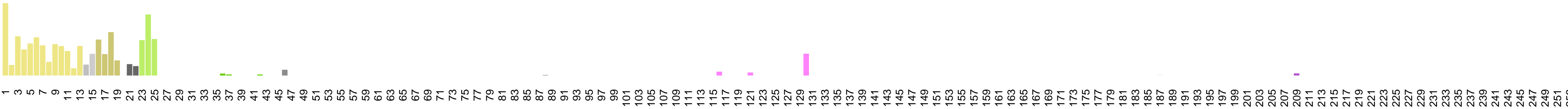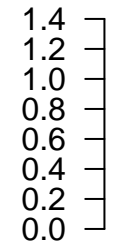
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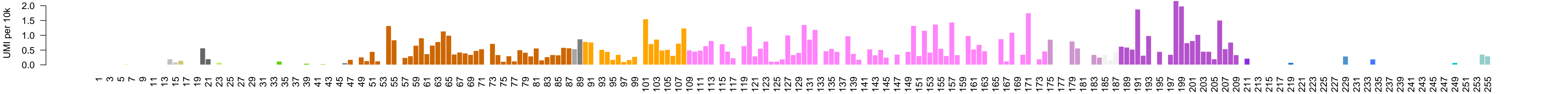
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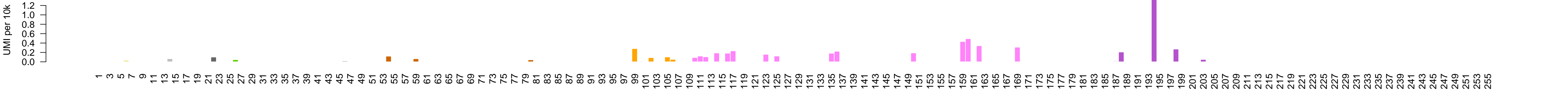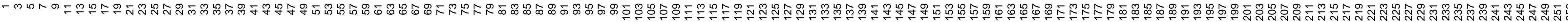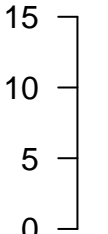
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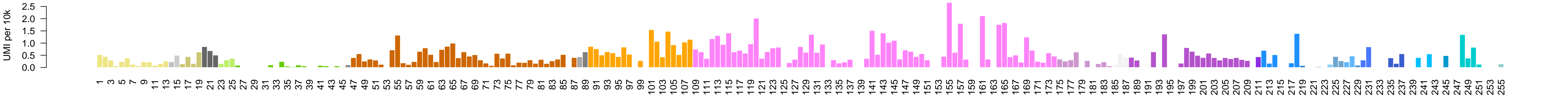
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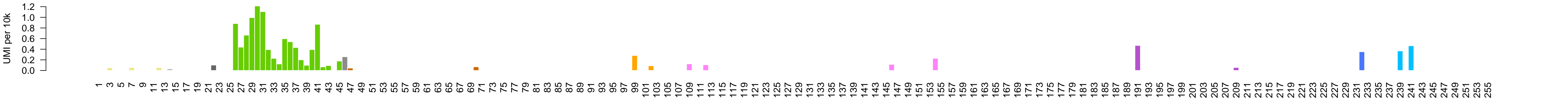
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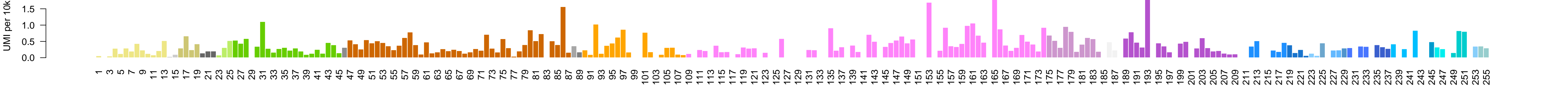
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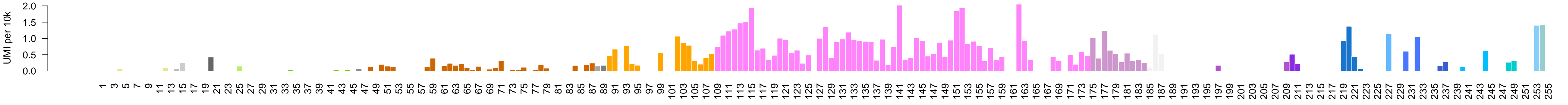
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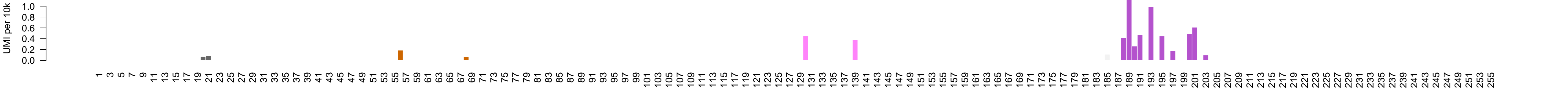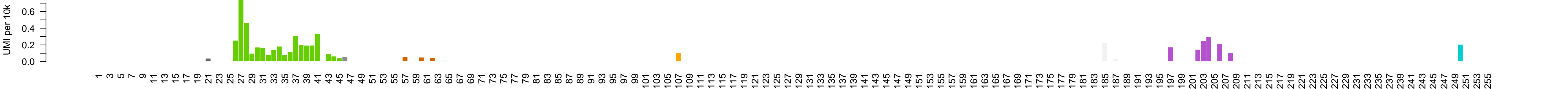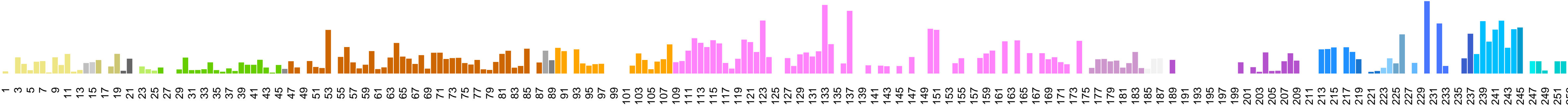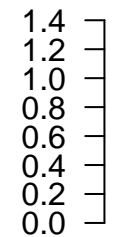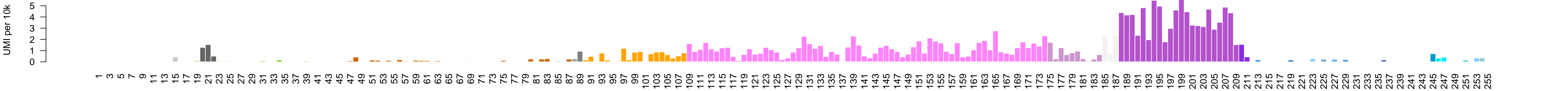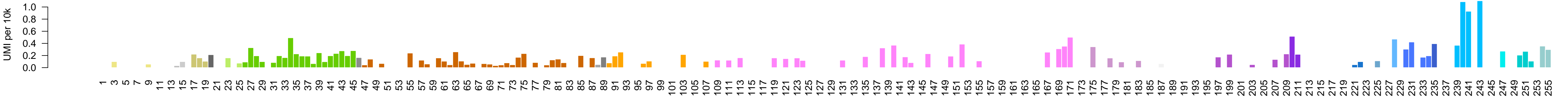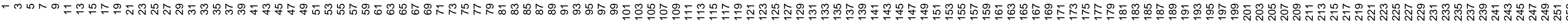MFS_1.HG7.0:SLC18A1/SLC18A2/SLC18A3/SLC18B1
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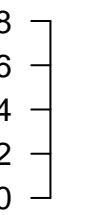
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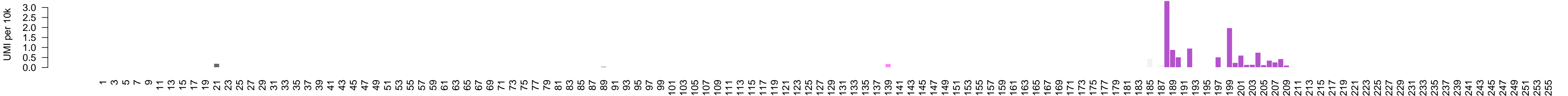
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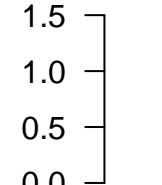
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NCam.HG1.0:like:NCAM1/NCAM2
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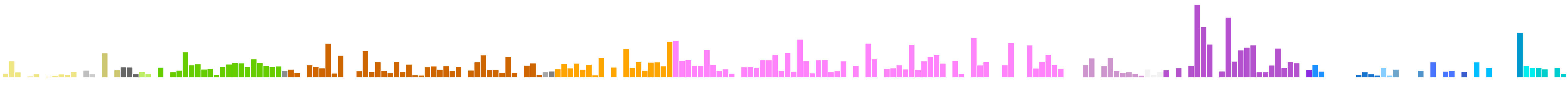
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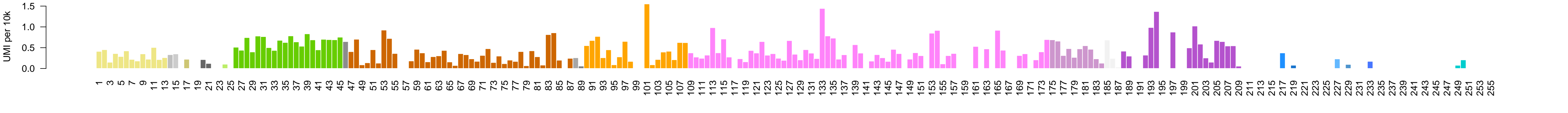
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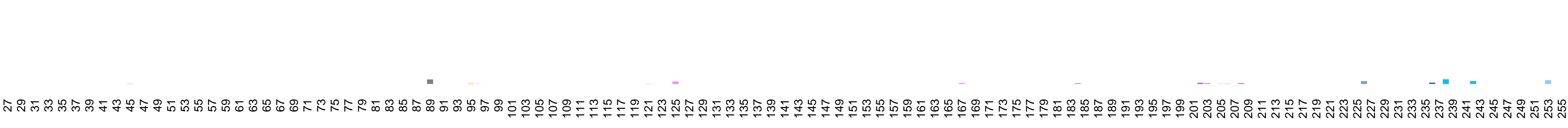
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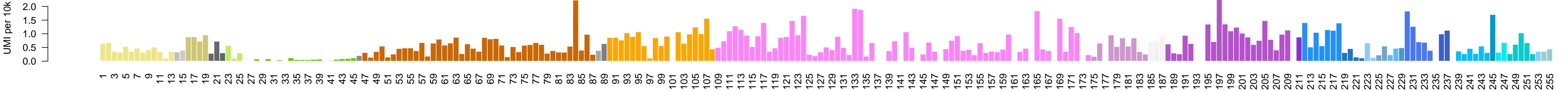
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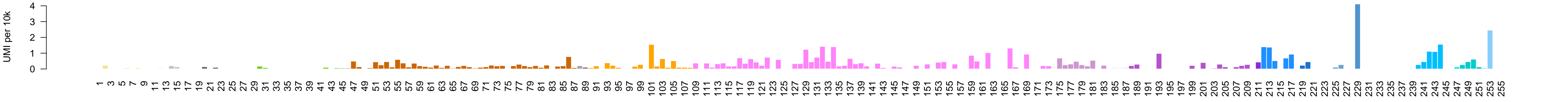
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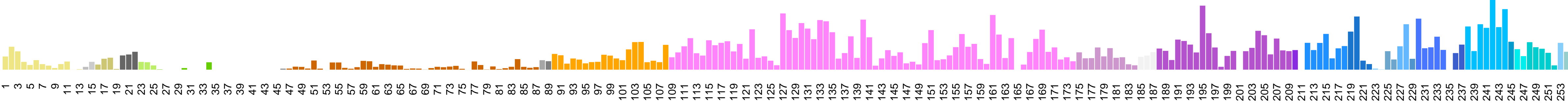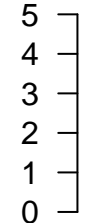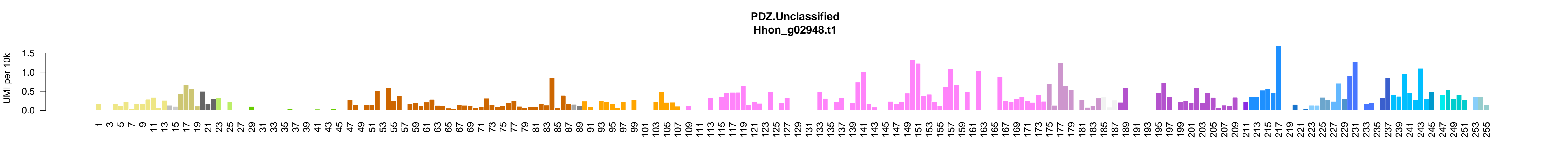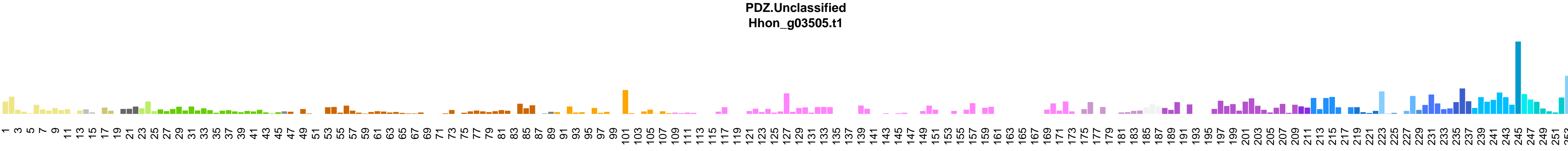
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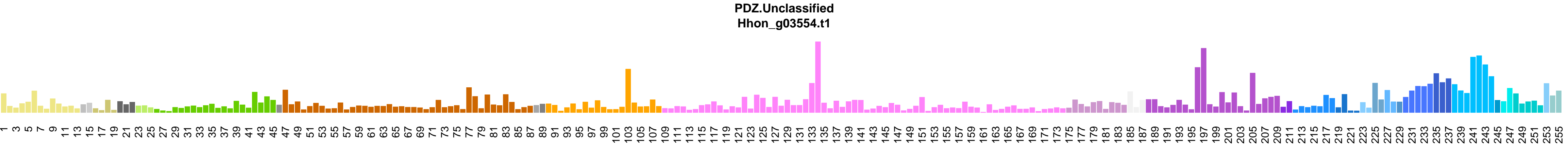
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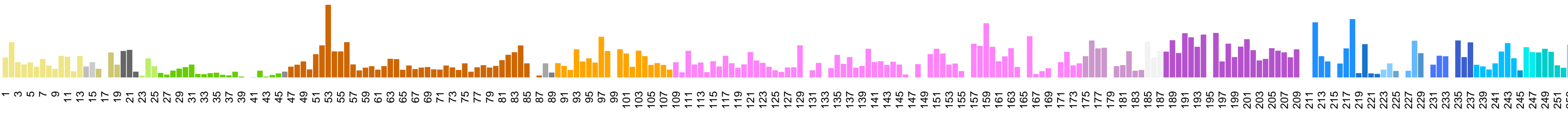
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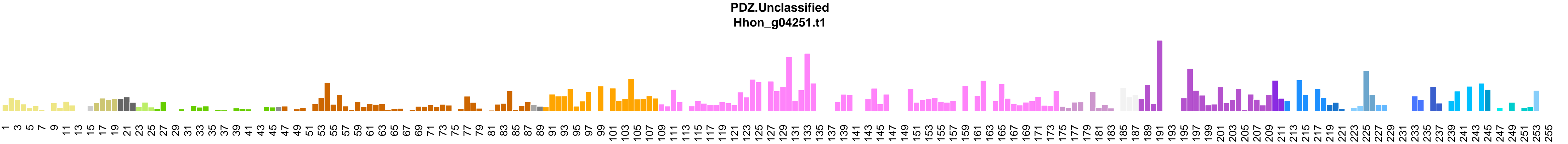
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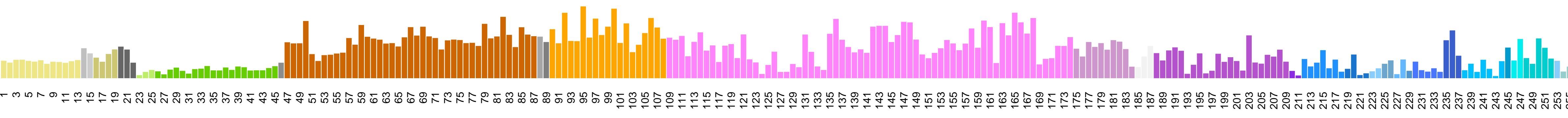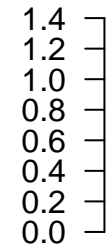
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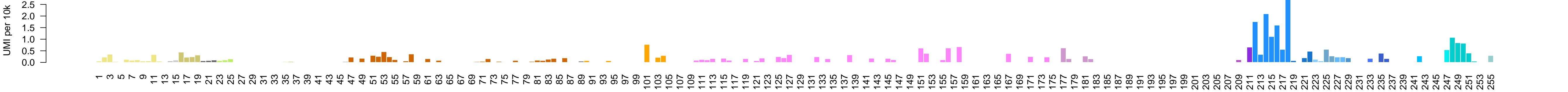
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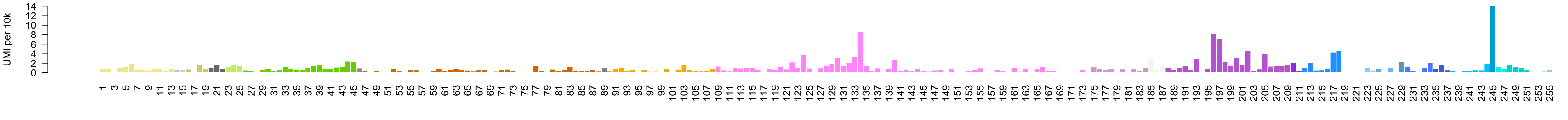
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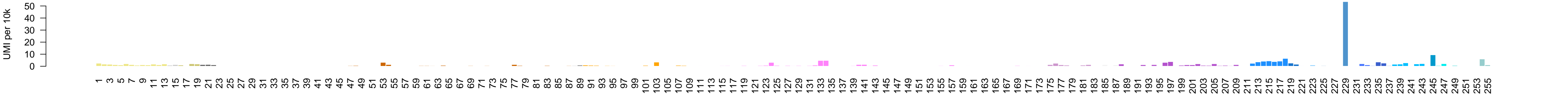
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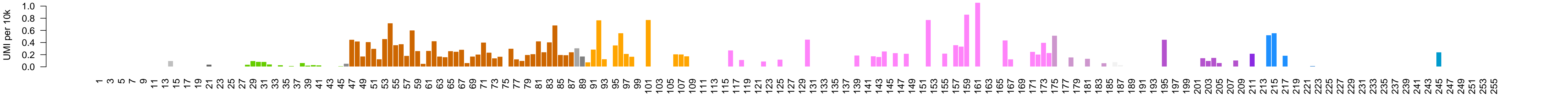
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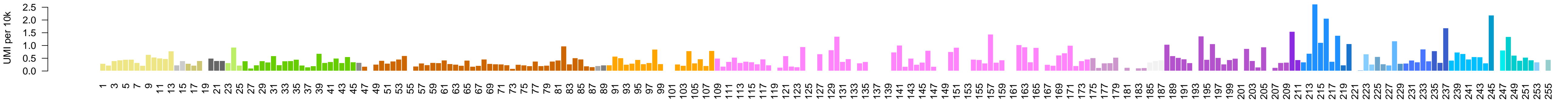
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PID.HG1.8:like:LDLRAP1/PID1
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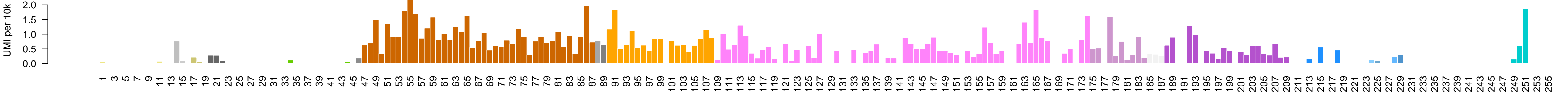
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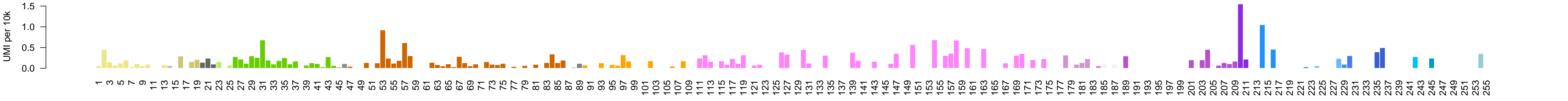
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PMCA.HG1.3:ATP2B1/ATP2B2/ATP2B3/ATP2B4
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PMCA.HG1.5:AC010616.1/ATP1A1/ATP1A2/ATP1A3/ATP1A4/ATP4A/ATP12A
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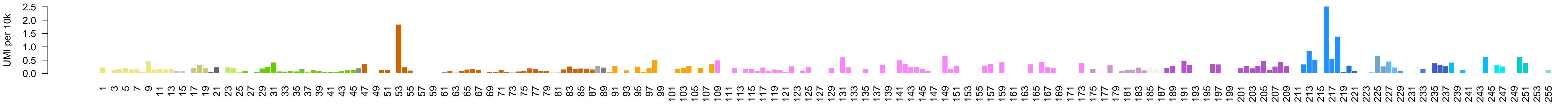
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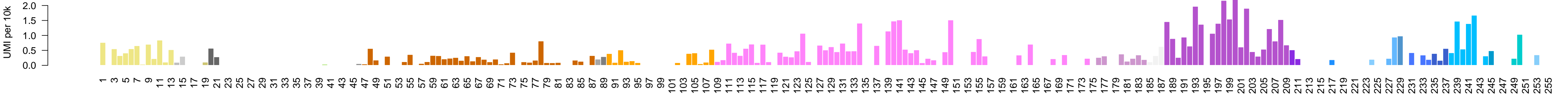
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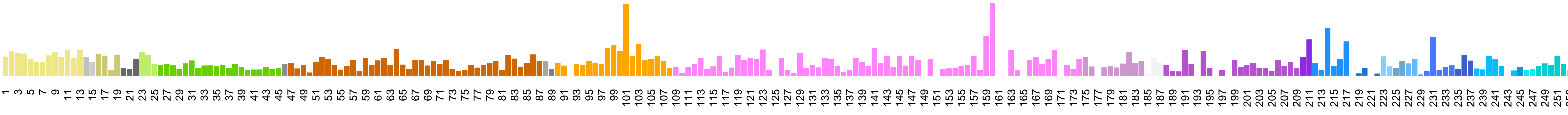
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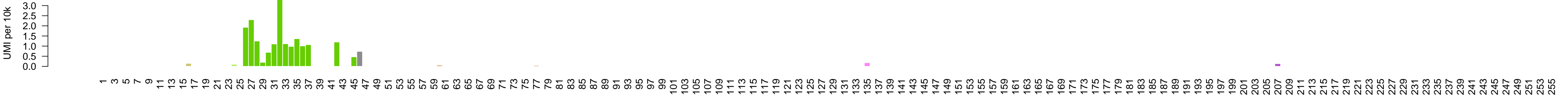
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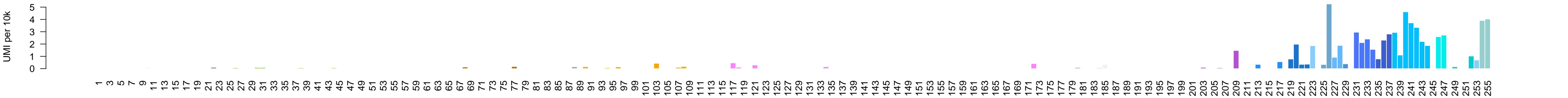
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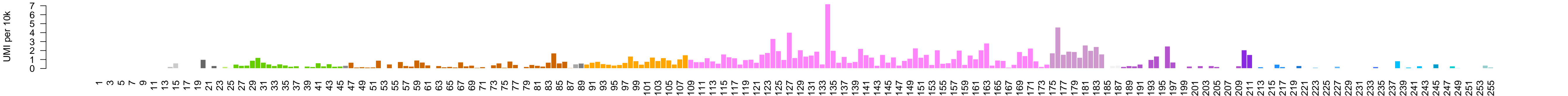
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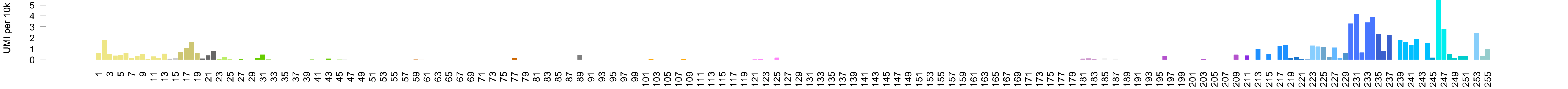
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RasGAP.HG1.0:GAPVD1
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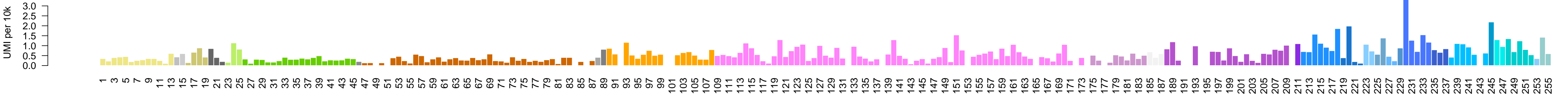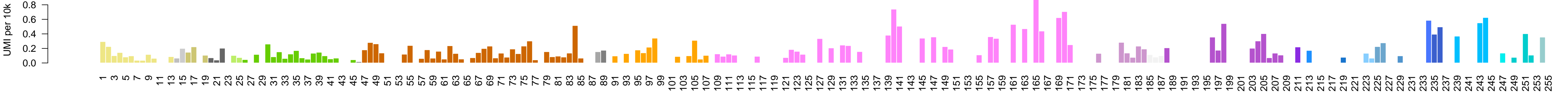
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RasGAP.HG1.2:NF1
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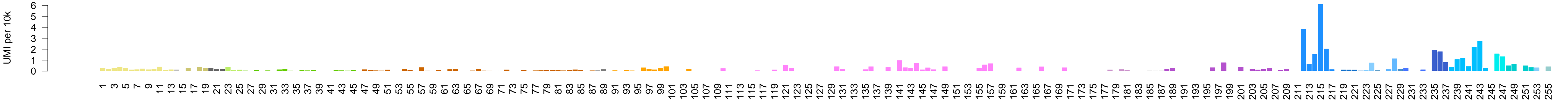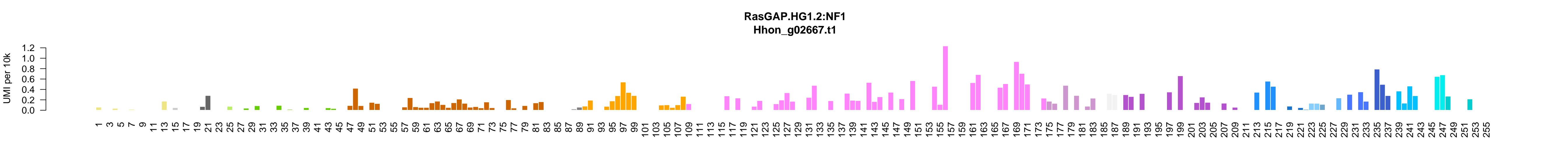
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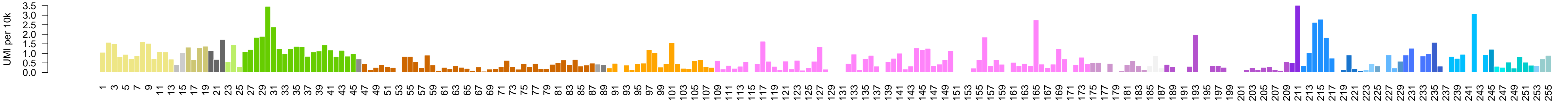
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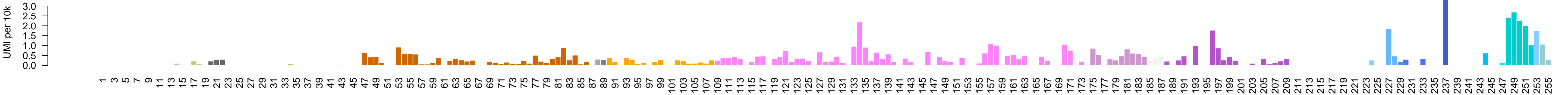
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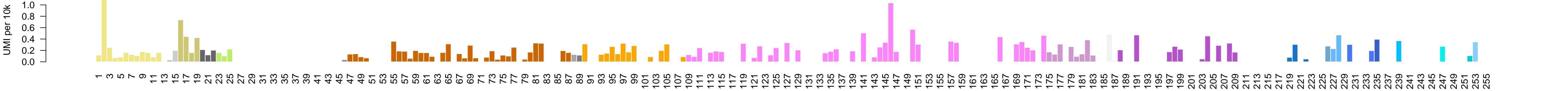
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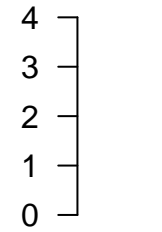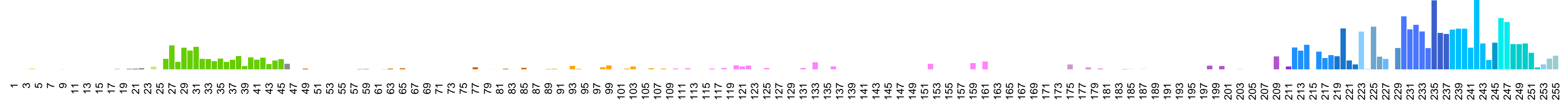
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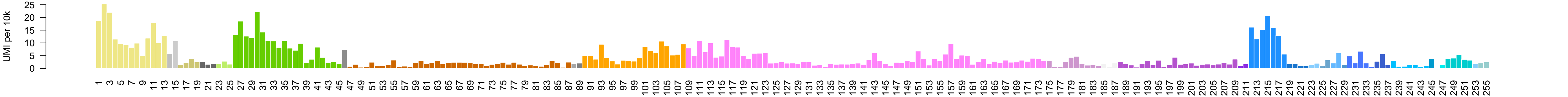
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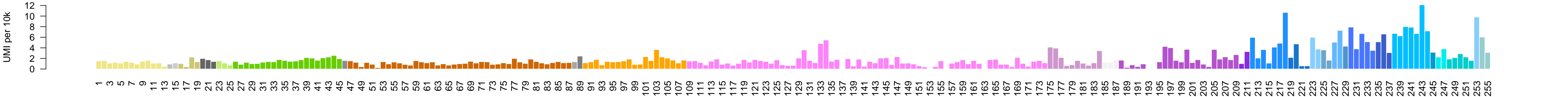
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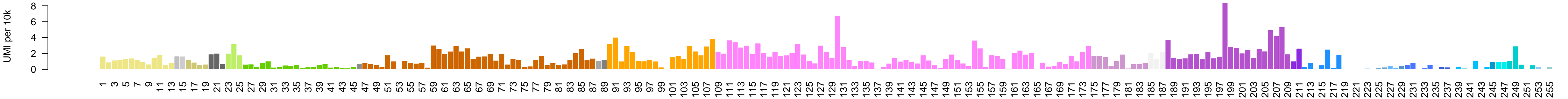
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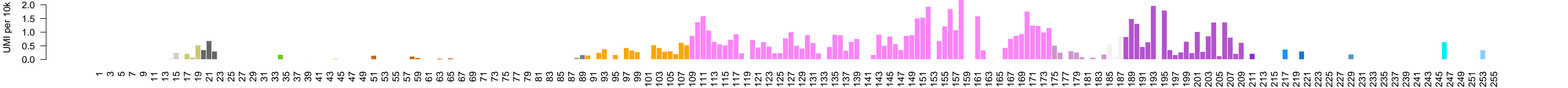
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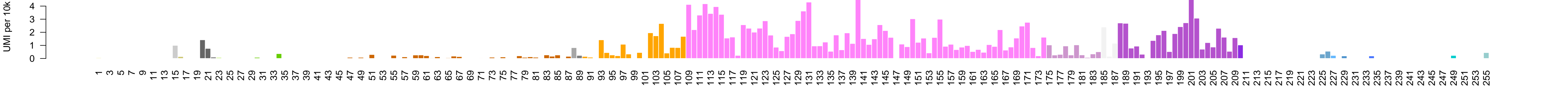Hhon_g09269.t1

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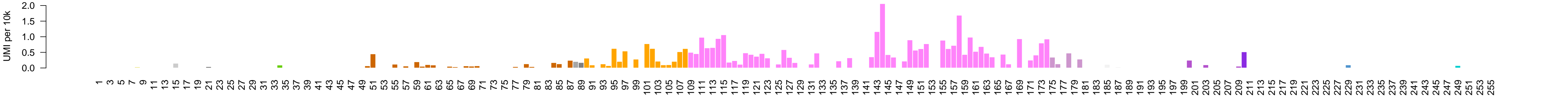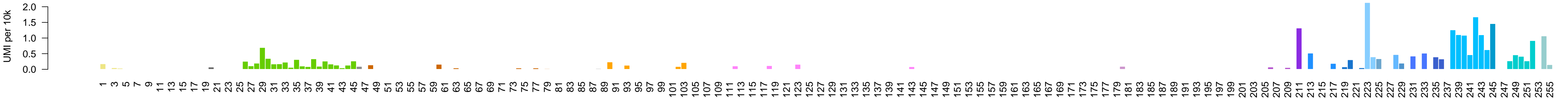
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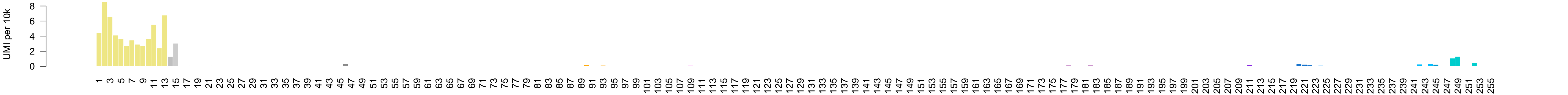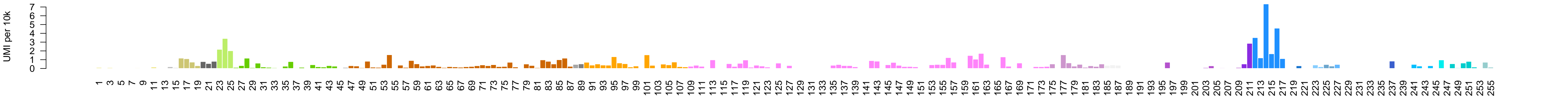
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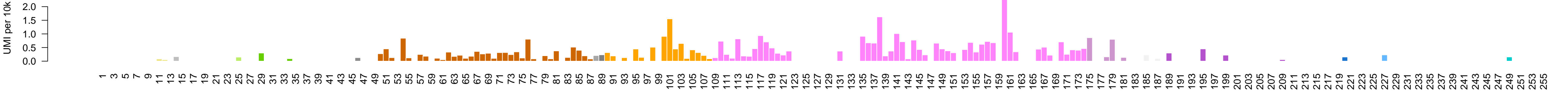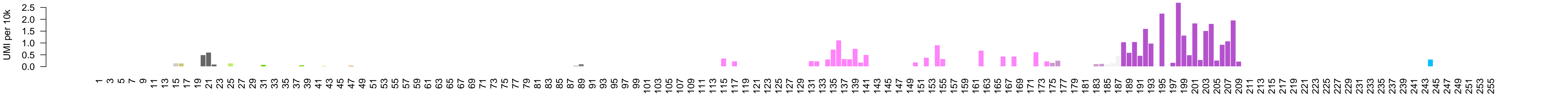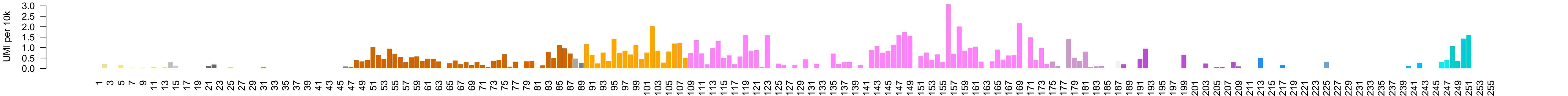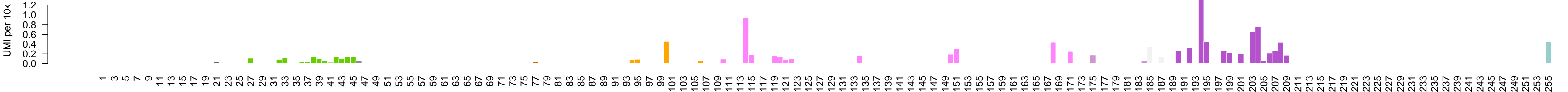
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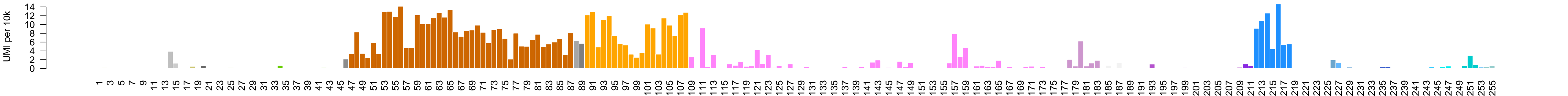
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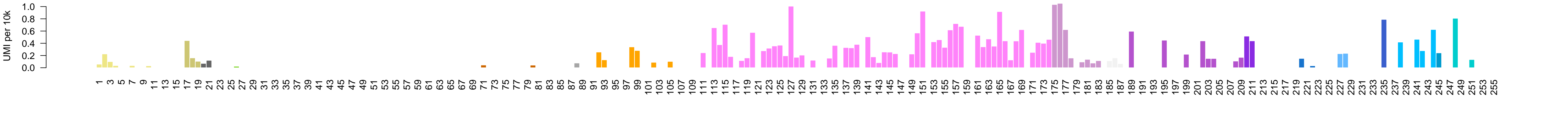
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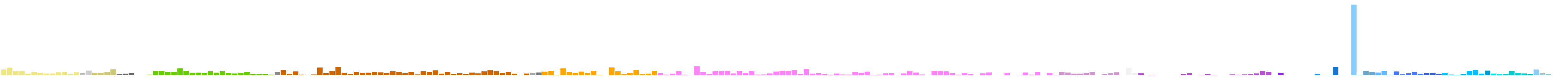SNF.HG1.31:like:SLC6A5/SLC6A7/SLC6A9/SLC6A14
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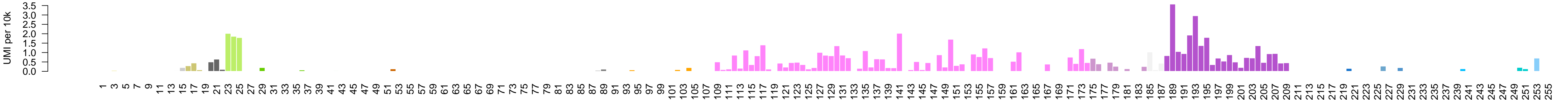**SNF.HG1.4:SLC6A15/SLC6A16/SLC6A17/SLC6A18/SLC6A19/SLC6A20**
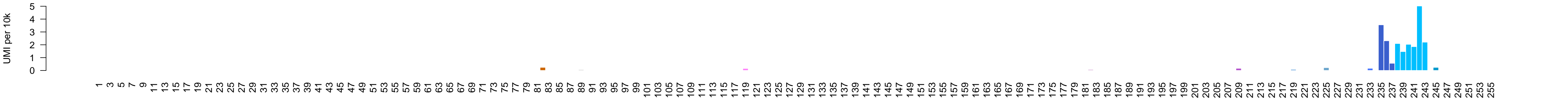**Hhon_g00985.t1**

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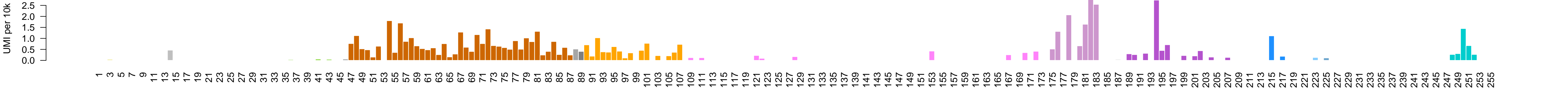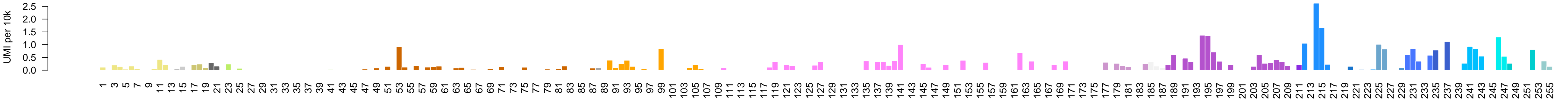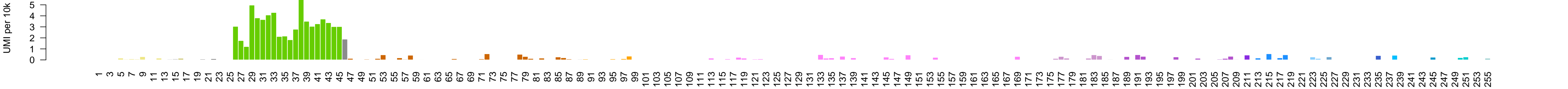**SNF.HG1.46:like:SLC6A5/SLC6A7/SLC6A9/SLC6A14**
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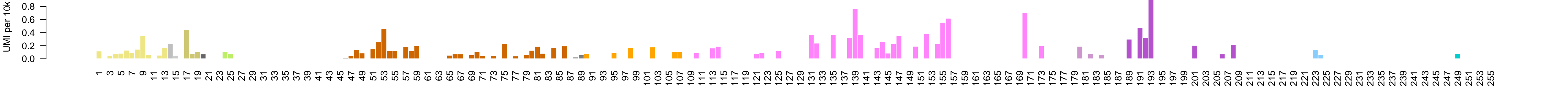SNF.HG1.46:like:SLC6A5/SLC6A7/SLC6A9/SLC6A14
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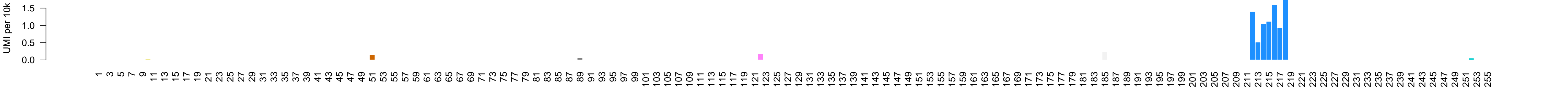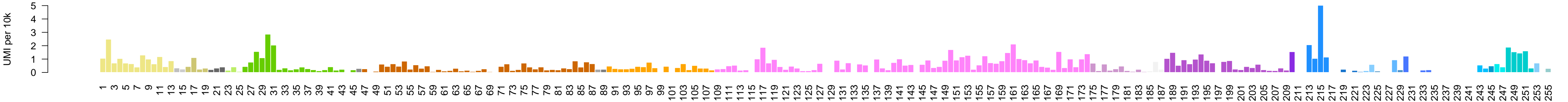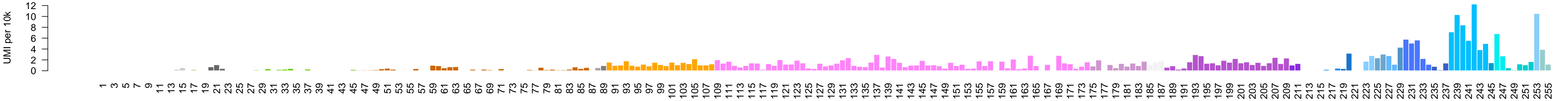
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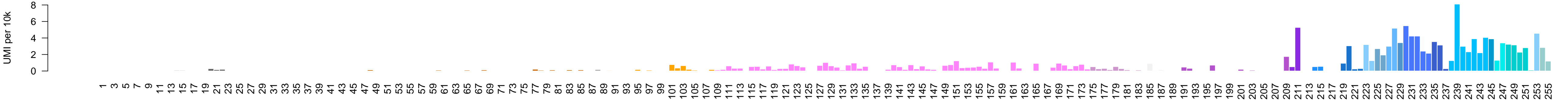**Stargazin.HG1.15:GSG1L/GSG1L2**
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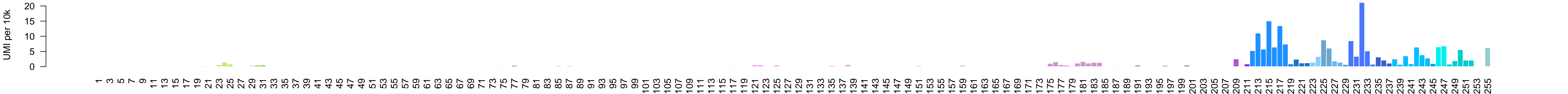# Sugar_tr.HG3.4:like:SLC2A10/SLC2A12/SLC2A13
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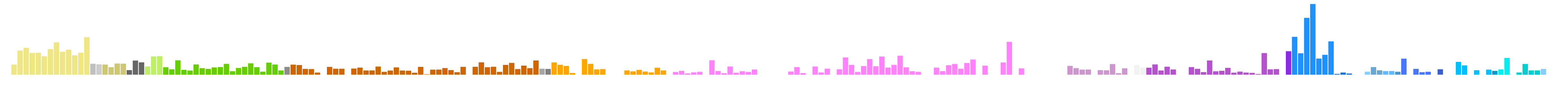Synaphin.HG2.0:NA
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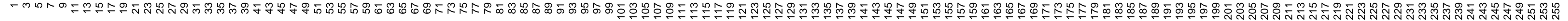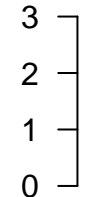**Synaptotagmin.HG1.0:SYT7**
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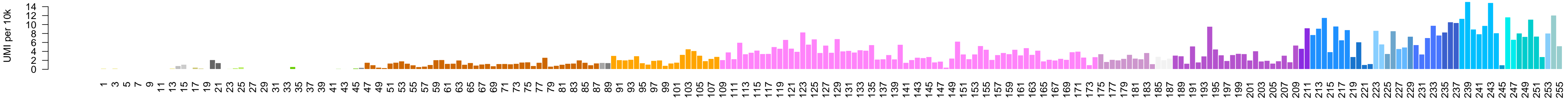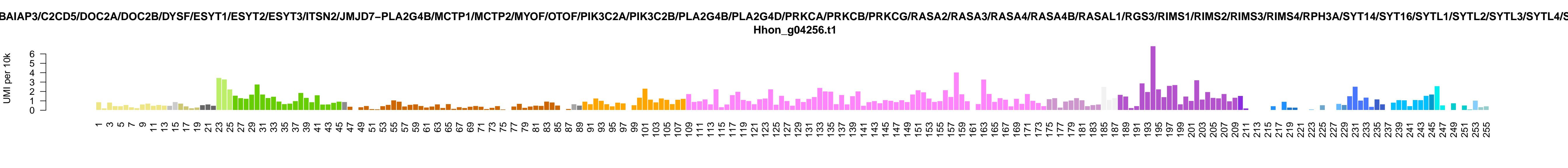
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Synaptotagmin.HG1.2:SYT1/SYT2/SYT5/SYT8
Hhon_g03362.t1

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
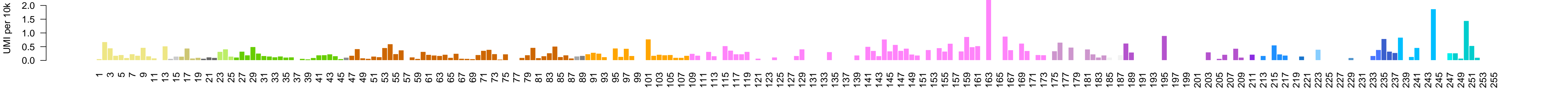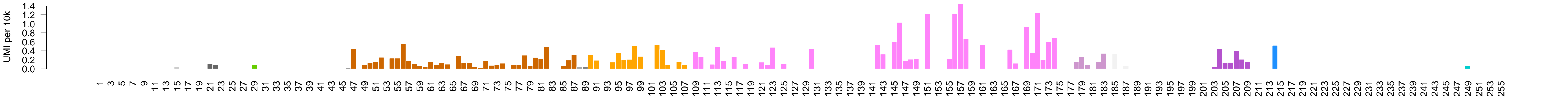
Hhon_g04256.t1

Synaptotagmin.HG1.29:SYT14/SYT16
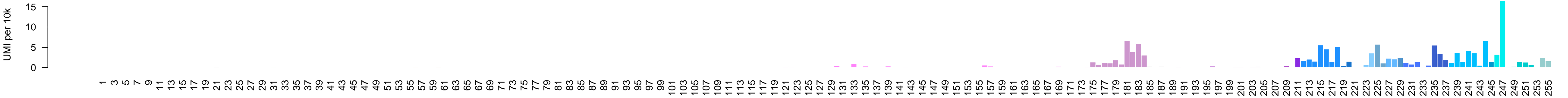**Hhon_g07466.t1**

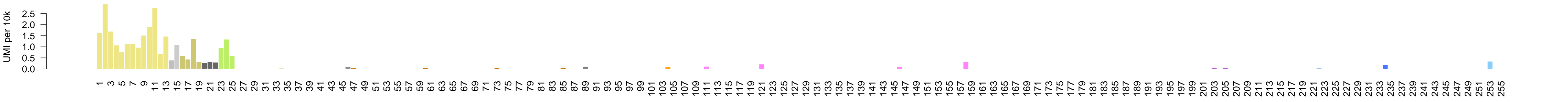**Synaptotagmin.HG1.30:like:BAIAP3/UNC13D**
Hhon_g08515.t1

Synaptotagmin.HG1.32:BAIAP3/UNC13D
Hhon_g03866.t1

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

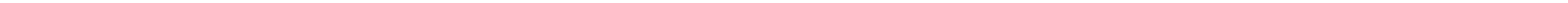Synaptotagmin.HG1.34:like:DYSF/MYOF
Hhon_g02267.t1
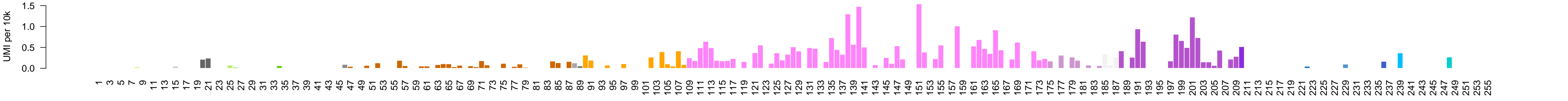
Synaptotagmin.HG1.35:DYSF/MYOF
Hhon_g02268.t1

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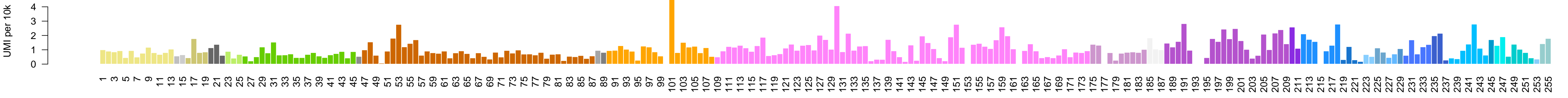Hhon_g10206.t1

Synaptotagmin.HG1.49:ESYT1/ESYT2/ESYT3
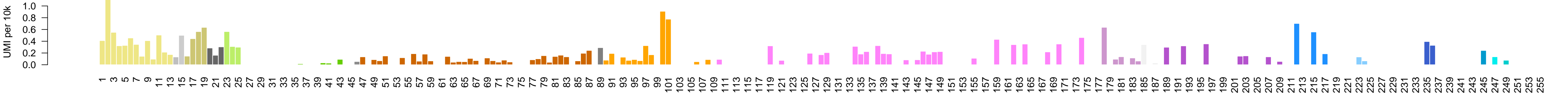**Hhon_g05559.t1**

Synaptotagmin.HG1.5:like:FO681492.1/SYT12/SYT13/SYT15
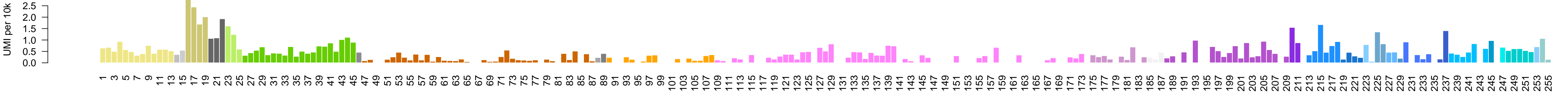Hhon_g01247.t1

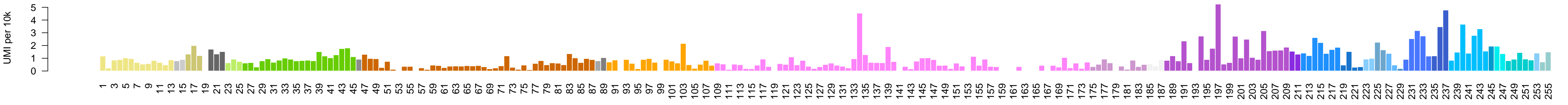Synaptotagmin.HG1.59:like:ITSN2/UNC13A/UNC13C
Hhon_g02376.t1

Synaptotagmin.HG1.60:like:ITSN2/UNC13A/UNC13C
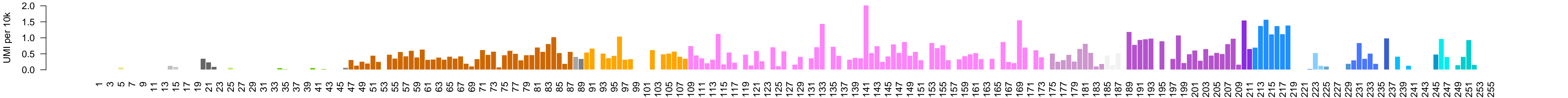Hhon_g05727.t1

Synaptotagmin.HG1.62:PRKCA/PRKCB/PRKCG
Hhon_g04801.t1

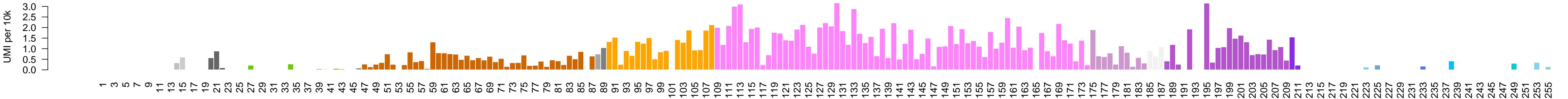**Syntaxin.HG1.2:STX7/STX12**
Hhon_g00160.t1

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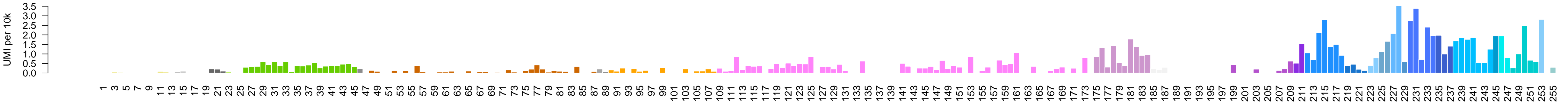Hhon_g06927.t1

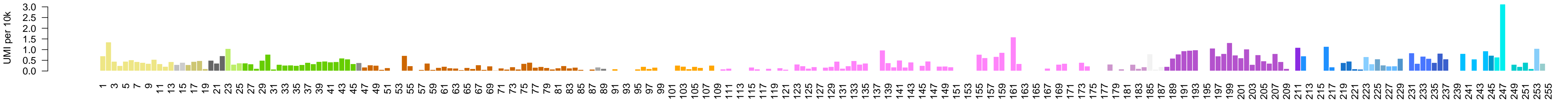Syntaxin.HG1.4:STX1A/STX1B/STX2/STX3/STX4
Hhon_g07818.t1

Syntaxin.HG1.4:STX1A/STX1B/STX2/STX3/STX4
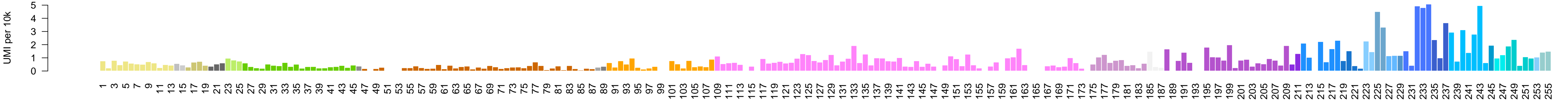**Hhon_g07819.t1**

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
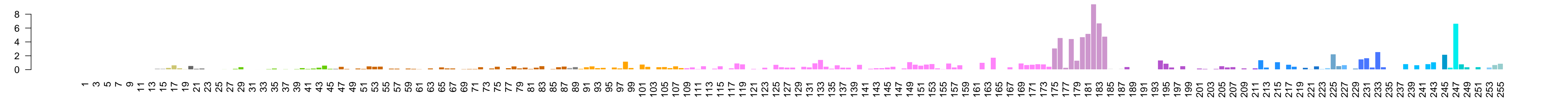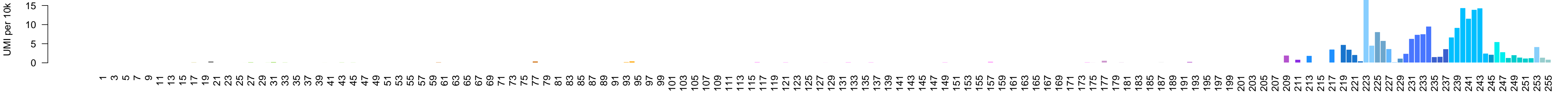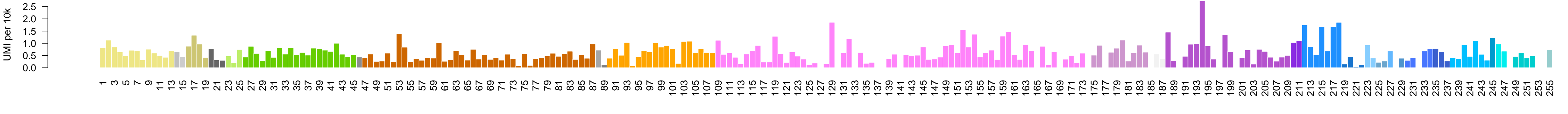Hhon_g02885.t1

Y_phosphatase.HG1.20:PTPN23
Hhon_g11002.t1

Y_phosphatase.HG1.26:like:PTPN9
Hhon_g00545.t1

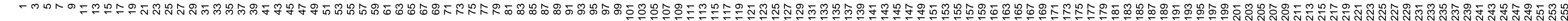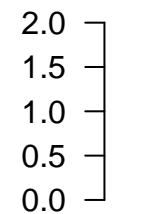**Y_phosphatase.HG1.29:PTPRN/PTPRN2**
Hhon_g09428.t1

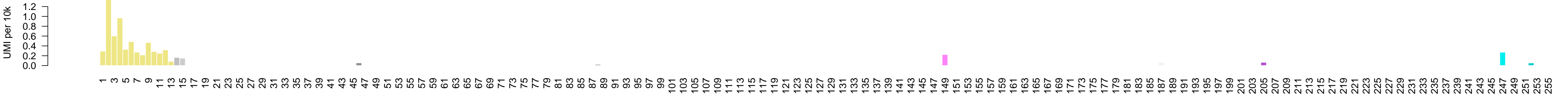**Y_phosphatase.HG1.30:PTPN1/PTPN2**
Hhon_g06178.t1

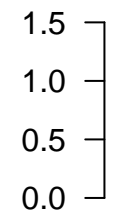**Y_phosphatase.HG1.38:PTPN3/PTPN4**
Hhon_g06297.t1

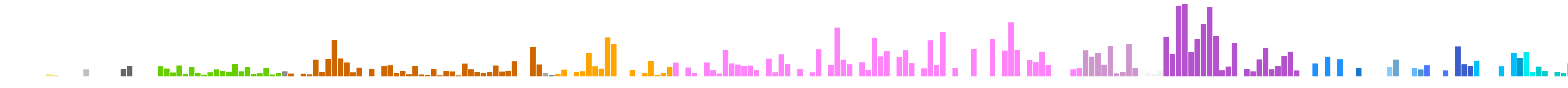**Y_phosphatase.HG1.41:like:PTPN5/PTPN7/PTPRR**
Hhon_g03898.t1

UMI per 10k

Y_phosphatase.HG1.45:like:PTPRA/PTPRC/PTPRD/PTPRE/PTPRF/PTPRG/PTPRS/PTPRZ1
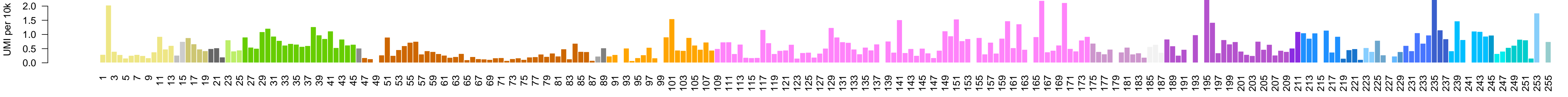Hhon_g02082.t1

phosphatase.HG1.5:like:PTPN1/PTPN2/PTPN3/PTPN4/PTPN5/PTPN6/PTPN7/PTPN9/PTPN11/PTPN12/PTPN13/PTPN14/PTPN18/PTPN20/PTPN21/PTPN22/PTPN23/PTPRA/PTPRB/PTPRC/PTPRD/PTPRE/PTPRF/PTPRG/PTPRH/PTPRJ/PTPRK/PTPRM/PTPRN/PTPRN2/PTPRO/PTPRQ/PTPRR/PTPRS/PTPRT/PTPRU
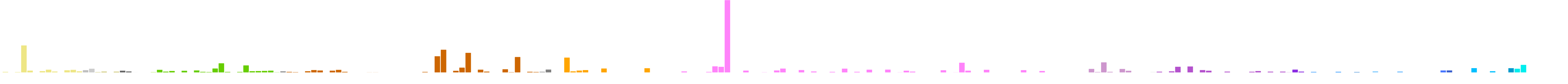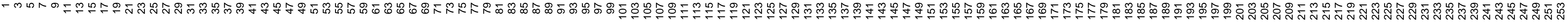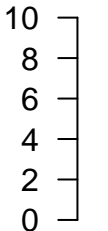
Hhon_g05092.t1
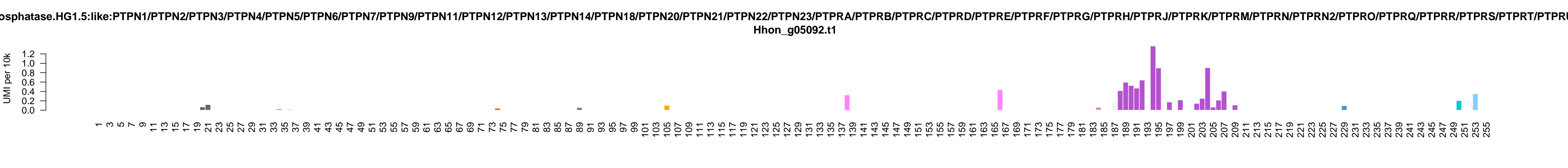
Y_phosphatase.HG1.52:PTPRG/PTPRZ1
Hhon_g06137.t1
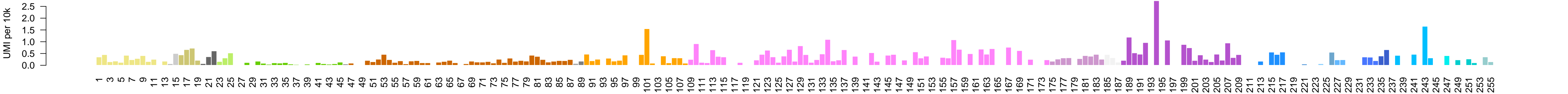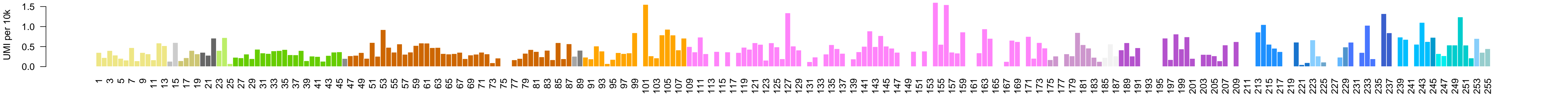
Y_phosphatase.HG2.0:CDKN3
Hhon_g07485.t1

Y_phosphatase.HG2.3:like:CDC14A/CDC14B/CDC14C/DUSP23/PTP4A1/PTP4A2/PTP4A3/PTPDC1
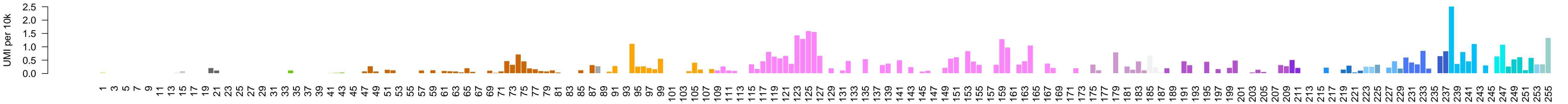Hhon_g09584.t1

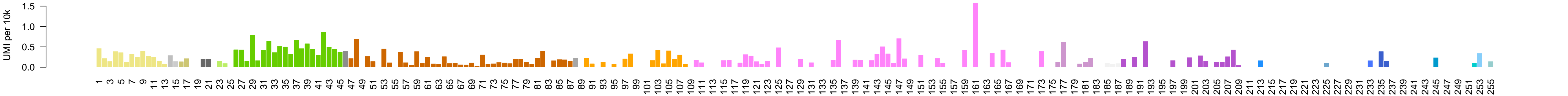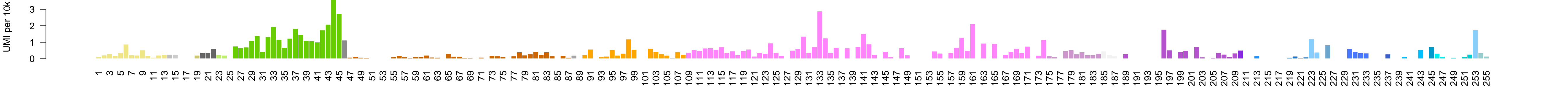Y_phosphatase.HG2.5:like:CDC14A/CDC14B/CDC14C/DUSP23/PTP4A1/PTP4A2/PTP4A3/PTPDC1
Hhon_g09897.t1

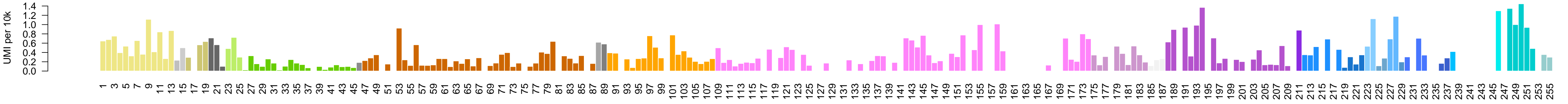**Y_phosphatase.HG2.6:PTPDC1**
Hhon_g05675.t1

Y_phosphatase.HG3.1:like:DUSP1/DUSP4/DUSP5
Hhon_g07988.t1

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

Y_phosphatase.HG3.4:like:DUSP1/DUSP4/DUSP5
Hhon_g07846.t1

Y_phosphatase.HG6.0:NA
Hhon_g06487.t1