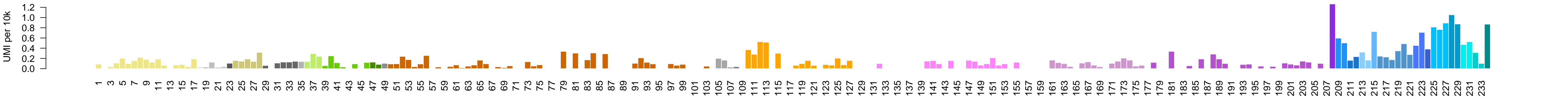
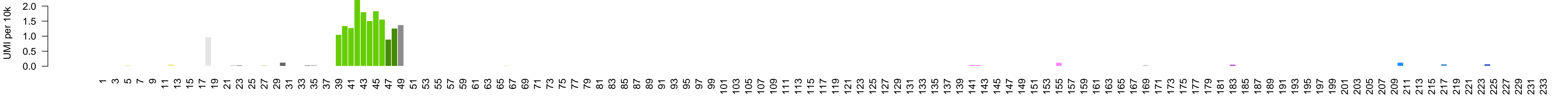


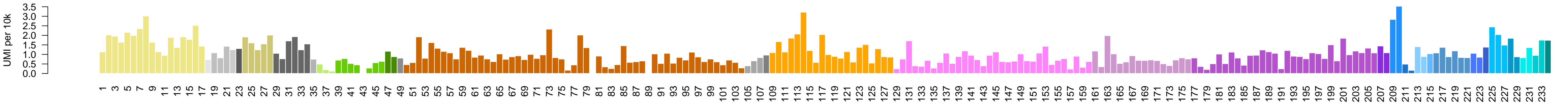
Pkinase.HG42.5:ARAF/BRAF/RAF1  
HoiH23\_hyp\_clust4260



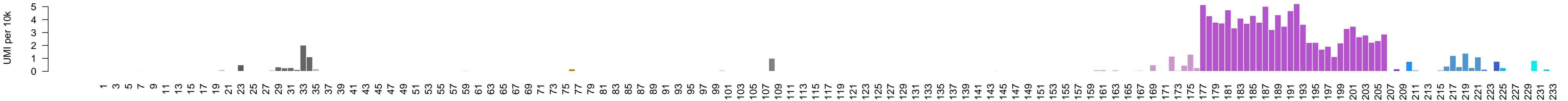
Pkinase.HG3.21:PTK6/SRMS  
HoiH23\_hyp\_clust5206b



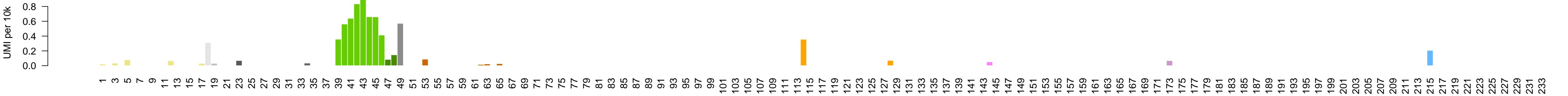
Pkinase.HG33.7:MAP2K4  
HoiH23\_PIH23\_000170



Pkinase.HG34.12:like:IRAK1/IRAK2/IRAK3/IRAK4  
HoiH23\_PIH23\_000240

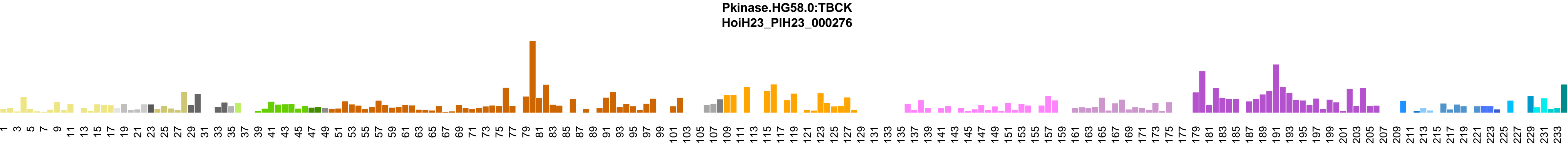


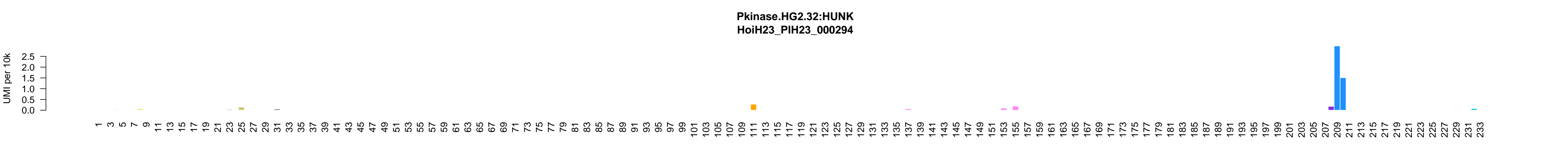
Pkinase.HG31.13:DSTYK  
HoiH23\_PIH23\_000250



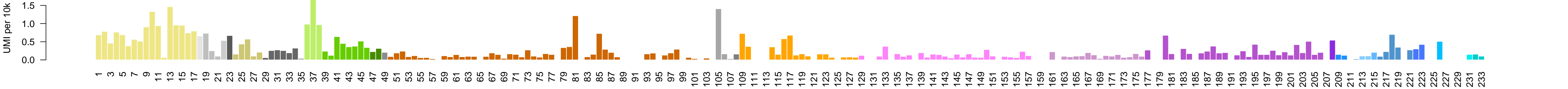
UMI per 10k

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1.0  
0.8  
0.6  
0.4  
0.2  
0.0



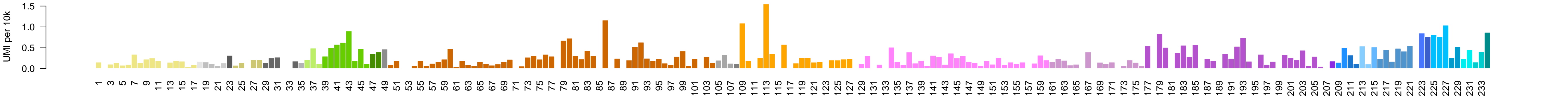


Pkinase.HG42.3:KSR1/KSR2  
HoiH23\_PIH23\_000357



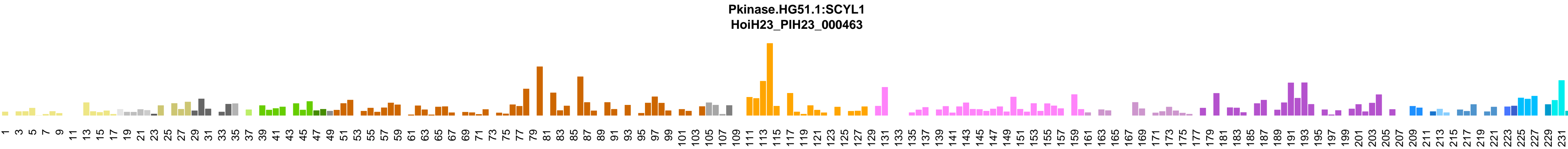


Pkinase.HG10.6:TAOK1/TAOK2/TAOK3  
HoiH23\_PIH23\_000369

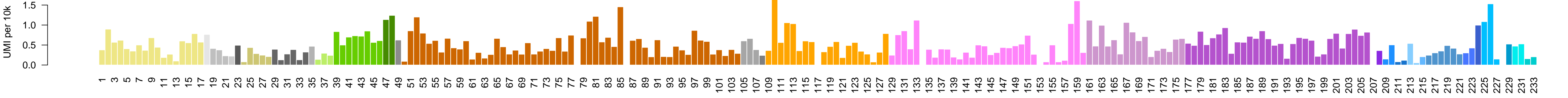


UMI per 10k

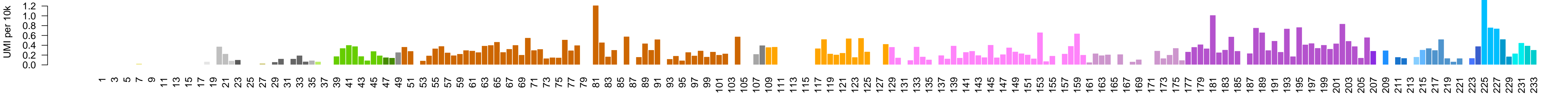
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0.2  
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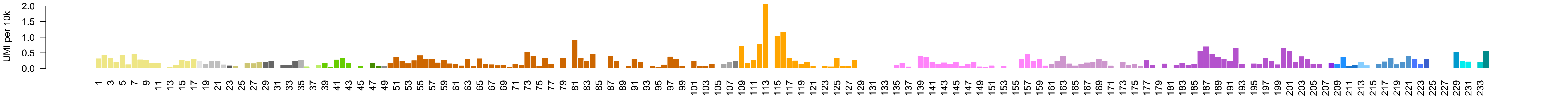


Pkinase.HG3.6:CSK/MATK  
HoiH23\_PIH23\_000481

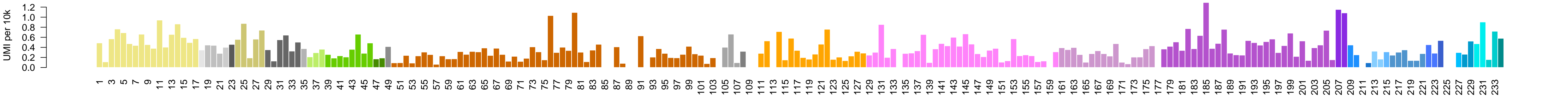


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HoiH23\_PIH23\_000482

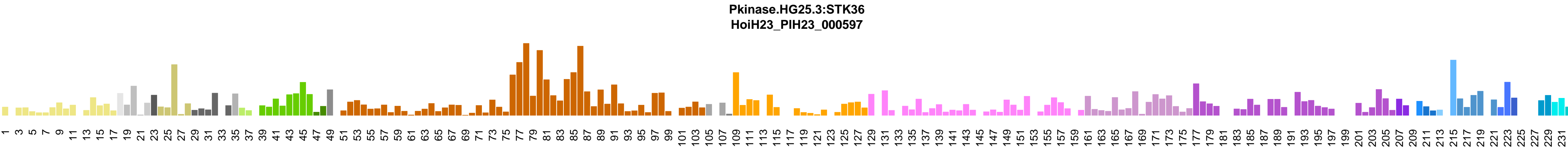
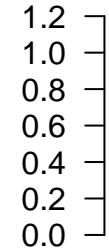




Pkinase.HG33.4:AC011005.1/MAP2K1/MAP2K2  
HoiH23\_PIH23\_000533



UMI per 10k

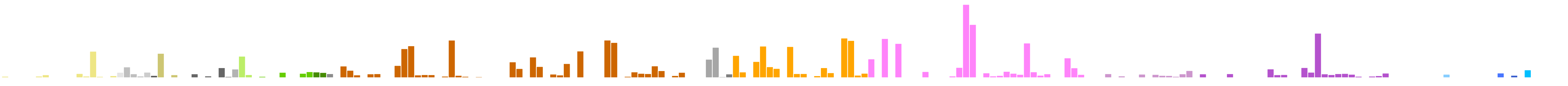


UMI per 10k

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0.0

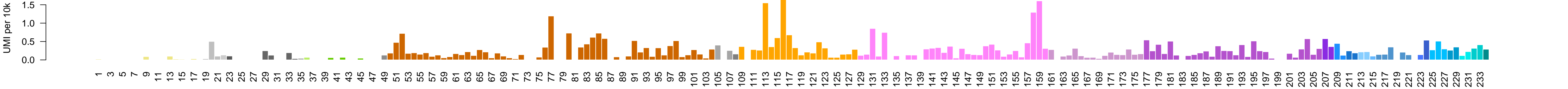
Pkinase.HG57.0:BUB1  
HoiH23\_PIH23\_000676

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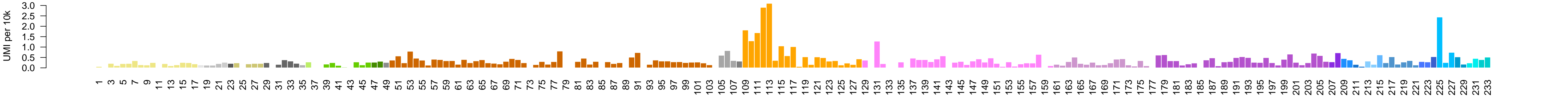




Pkinase.HG25.7:ULK4  
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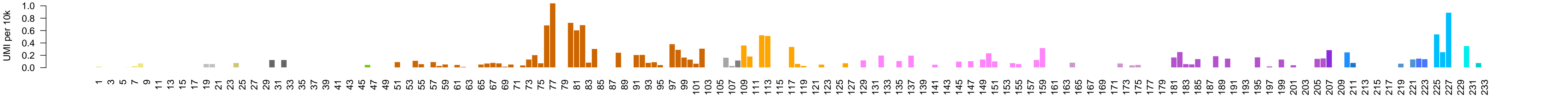


Pkinase.HG10.4:STRADA/STRADB  
HoiH23\_PIH23\_000997

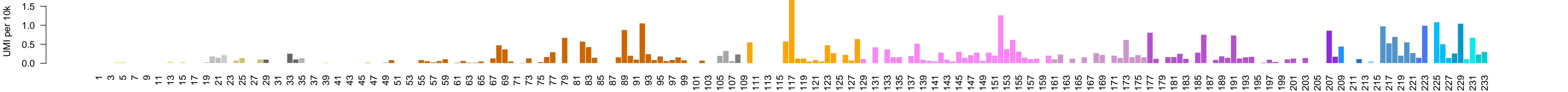


Pkinase.HG13.14:like:GUCY2C/GUCY2D/GUCY2F/NPR1/NPR2

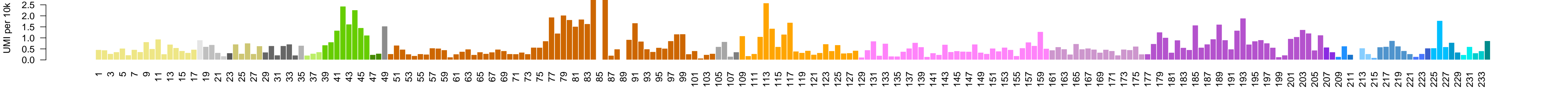
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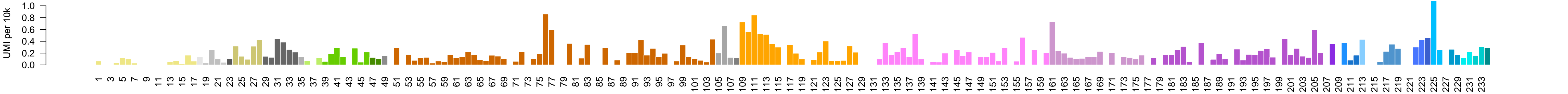
Pkinase.HG6.4:DCLK1/DCLK2/DCLK3  
HoiH23\_PIH23\_001042

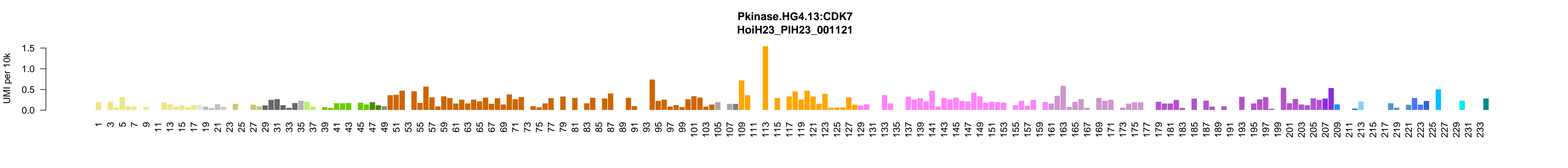


Pkinase.HG16.6:ROCK1/ROCK2  
HoiH23\_PIH23\_001066



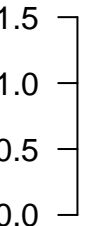
Pkinase.HG45.0:NRBP1/NRBP2  
HoiH23\_PIH23\_001102



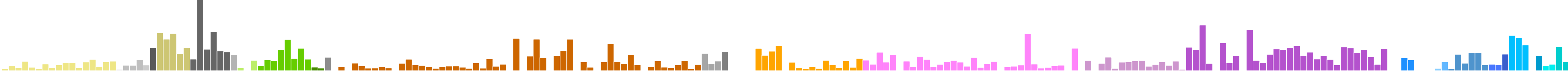


Pkinase.HG19.1:MAP3K2/MAP3K3  
HoiH23\_PIH23\_001162

UMI per 10k



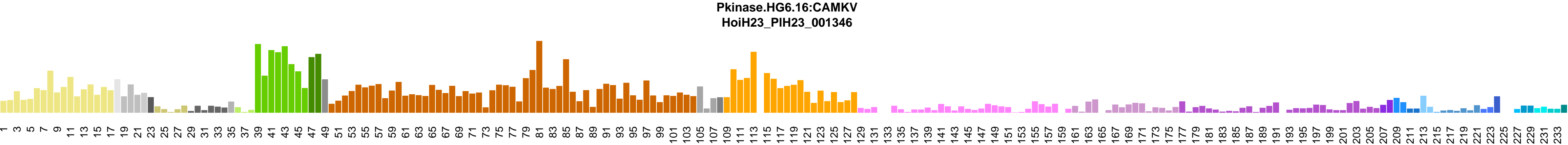
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UMI per 10k

4  
3  
2  
1  
0



UMI per 10k

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1.2  
1.0  
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0.6  
0.4  
0.2  
0.0

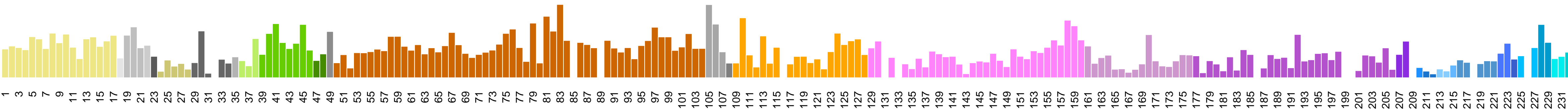
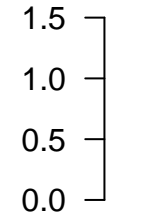


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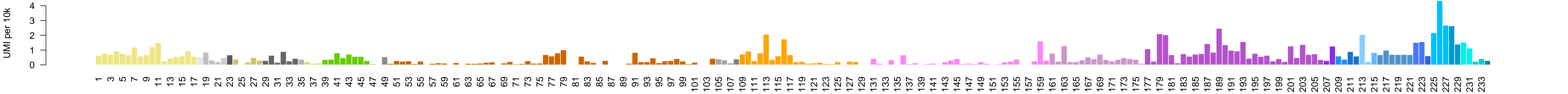
Pkinase.HG38.1:GAK  
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Pkinase.HG2.25:PRKAA1/PRKAA2  
HoiH23\_PIH23\_001535

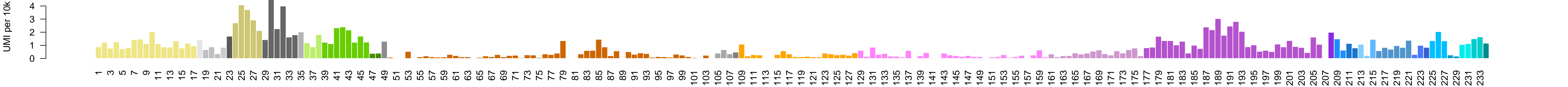
UMI per 10k



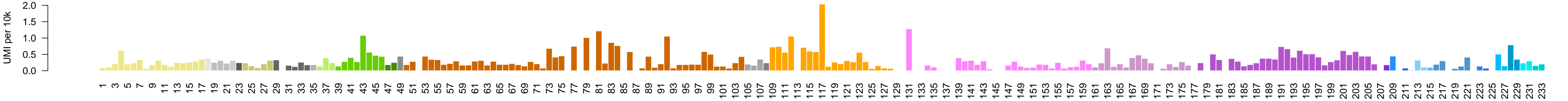
Pkinase.HG16.2:MAST1/MAST2/MAST3/MAST4  
HoiH23\_PIH23\_001541



Pkinase.HG12.11:PRKCA/PRKCB/PRKCG  
HoiH23\_PIH23\_001595

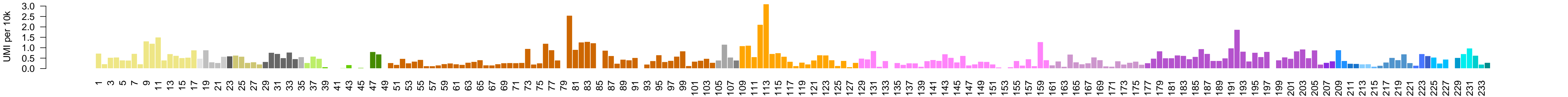


Pkinase.HG27.7:ERN1/ERN2  
HoiH23\_PIH23\_001601

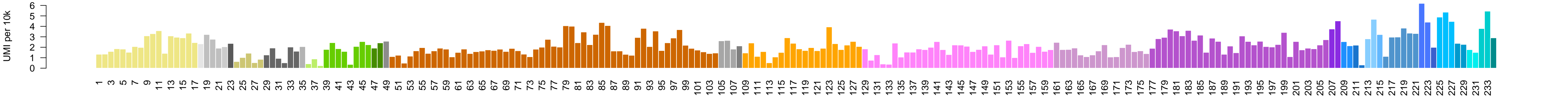


Pkinase.HG16.8: CDC42BPA/CDC42BPB/CDC42BPG/DMPK

HoiH23\_PIH23\_001823



Pkinase.HG12.1:AKT1/AKT2/AKT3  
HoiH23\_PIH23\_001833

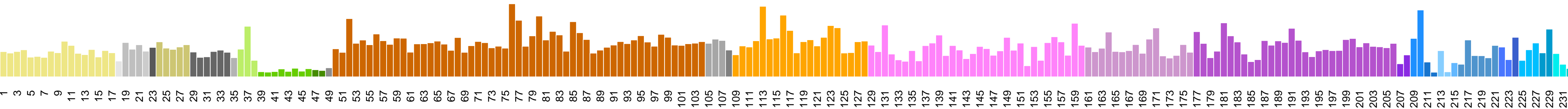




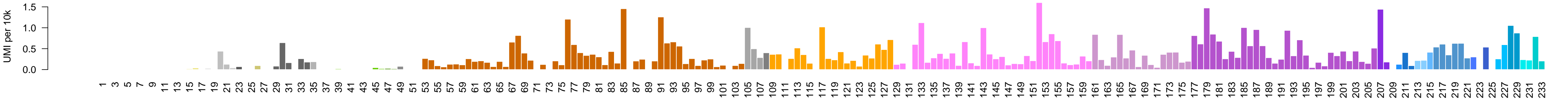
Pkinase.HG6.18:CAMK1/CAMK1D/CAMK1G/PNCK  
HoiH23\_PIH23\_001913

UMI per 10k

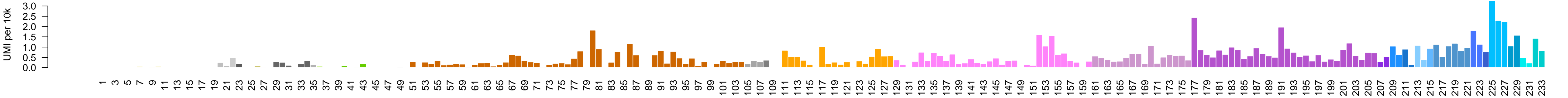
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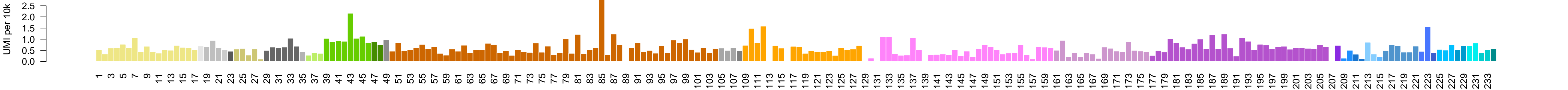
Pkinase.HG15.10:DYRK2/DYRK3  
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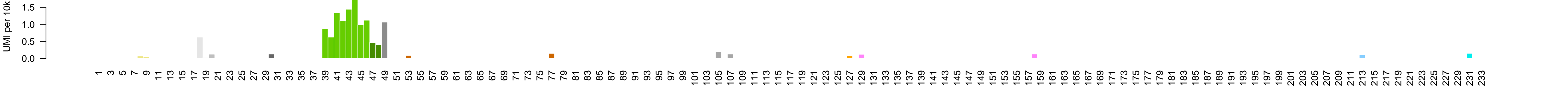
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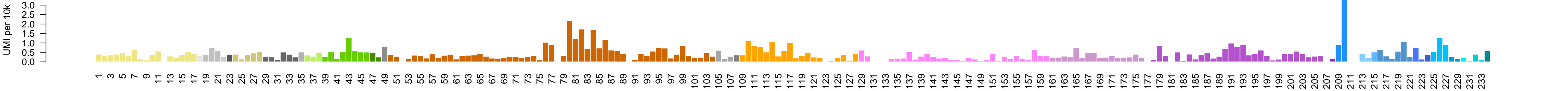
Pkinase.HG22.9:CSNK1D/CSNK1E/TPTEP2-CSNK1E  
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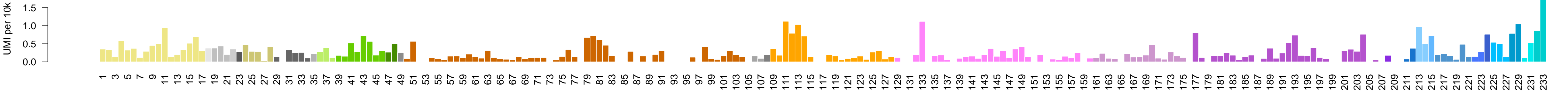
Pkinase.HG1.13:like:STYK1  
HoiH23\_PIH23\_002085



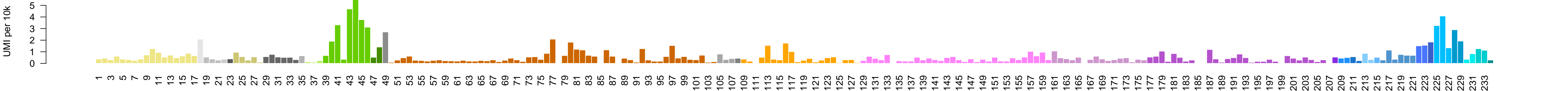
Pkinase.HG36.5:EIF2AK4  
HoiH23\_PIH23\_002109



Pkinase.HG8.16:AATK/IGF1R/INSR/INSRR/LMTK2/LMTK3  
HoiH23\_PIH23\_002157



Pkinase.HG8.16:AATK/IGF1R/INSR/INSRR/LMTK2/LMTK3  
HoiH23\_PIH23\_002158



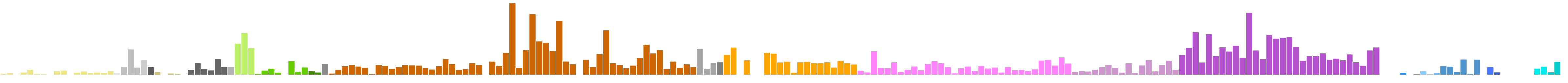


Pkinase.HG23.13:MYLK/MYLK2/MYLK3/MYLK4/TTN  
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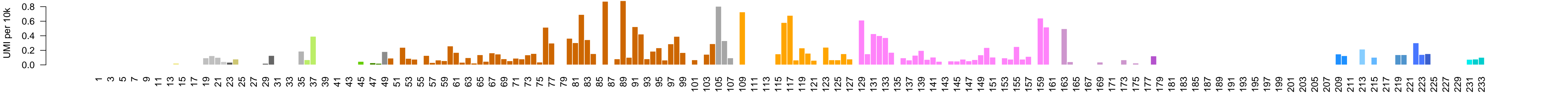
UMI per 10k

3  
2  
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1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83 85 87 89 91 93 95 97 99 101 103 105 107 109 111 113 115 117 119 121 123 125 127 129 131 133 135 137 139 141 143 145 147 149 151 153 155 157 159 161 163 165 167 169 171 173 175 177 179 181 183 185 187 189 191 193 195 197 199 201 203 205 207 209 211 213 215 217 219 221 223 225 227 229 231 233

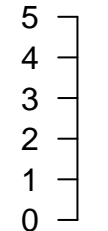


Pkinase.HG24.6:NA  
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Pkinase.HG23.0:KALRN/TRIO  
HoiH23\_PIH23\_002206

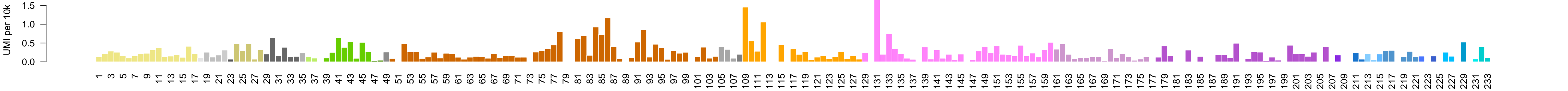
UMI per 10k



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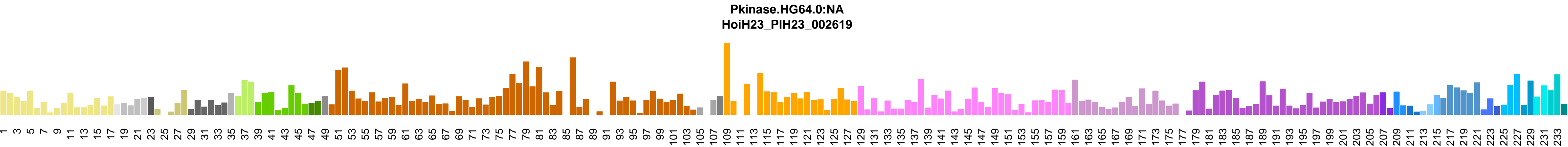


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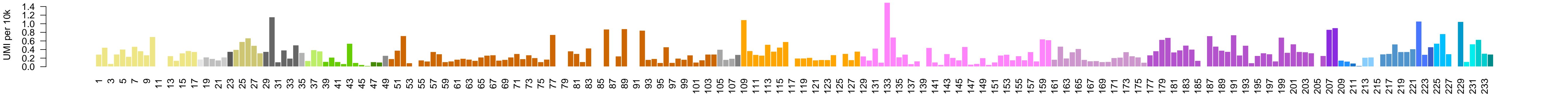


UMI per 10k

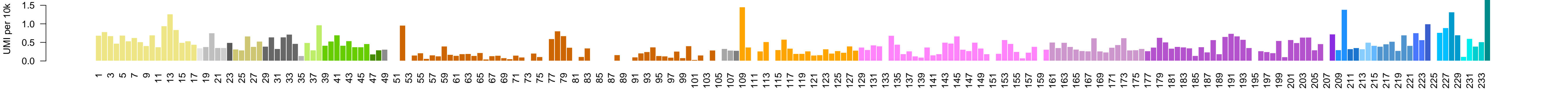
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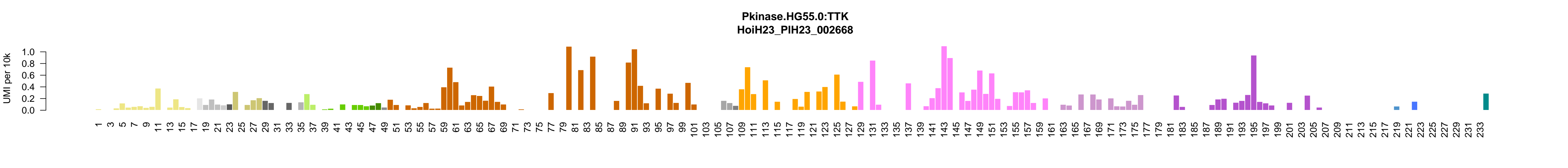


Pkinase.HG4.18:CDK16/CDK17/CDK18  
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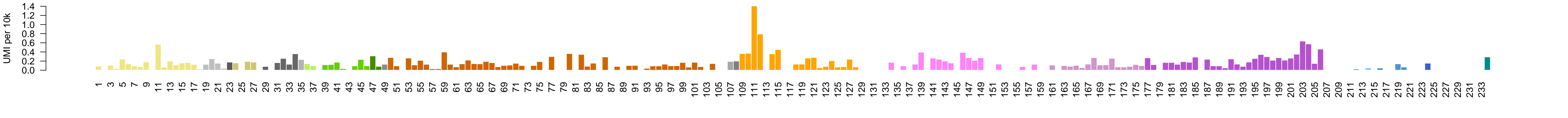
Pkinase.HG7.5:PDIK1L/STK35  
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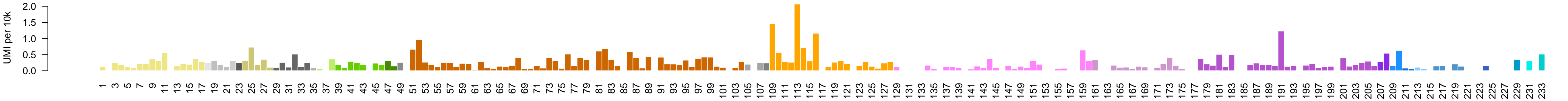




Pkinase.HG54.0:TLK1/TLK2  
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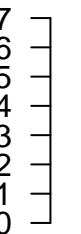


Pkinase.HG38.2:AAK1/BMP2K  
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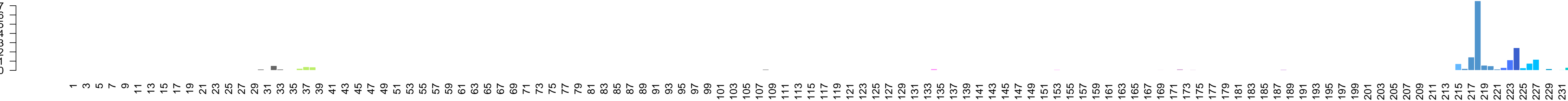


Pkinase.HG7.12:like:NEK6/NEK7  
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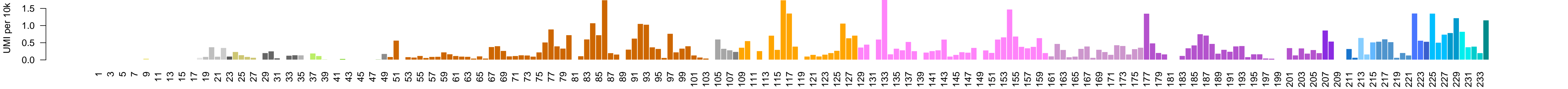
UMI per 10k



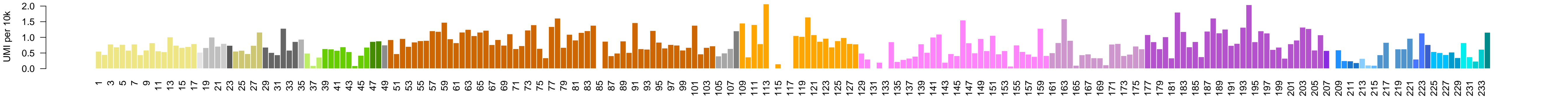
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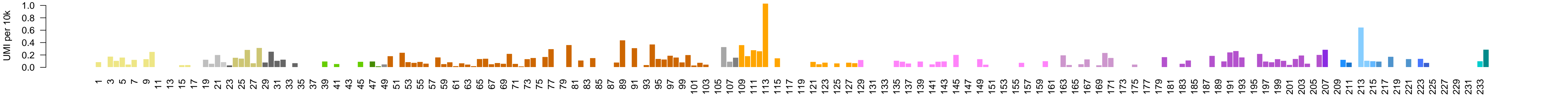
Pkinase.HG37.2:CILK1/MAK  
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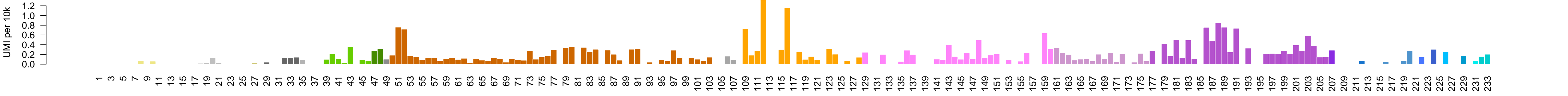
Pkinase.HG33.6:MAP2K3/MAP2K6  
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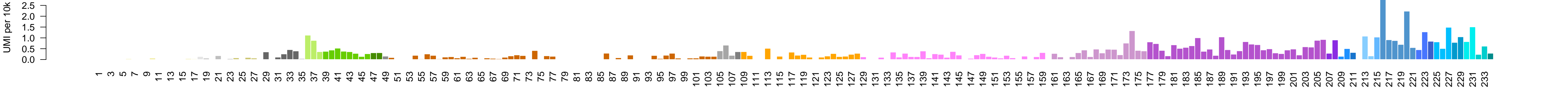
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HoiH23\_PIH23\_003031



Pkinase.HG10.11:MYO3A/MYO3B  
HoiH23\_PIH23\_003060

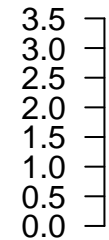


Pkinase.HG4.17:CDK14/CDK15  
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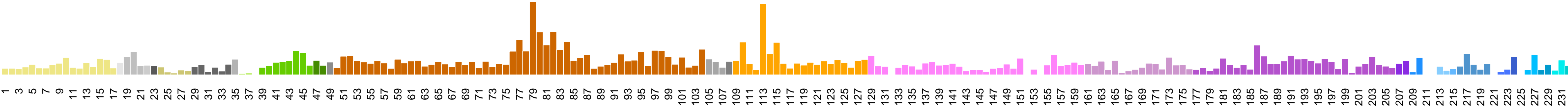




UMI per 10k

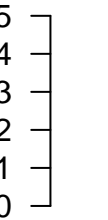


Pkinase.HG29.17:PRKG1  
HoiH23\_PIH23\_003088



Pkinase.HG29.15:like:PRKG1  
HoiH23\_PIH23\_003099

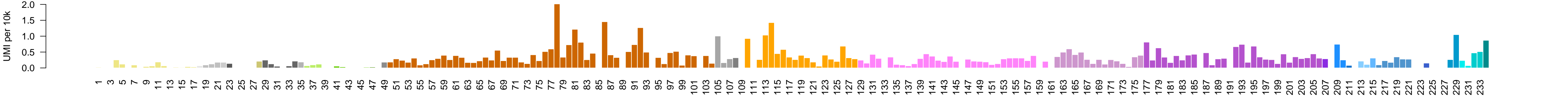
UMI per 10k



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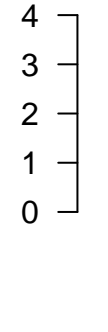


Pkinase.HG3.27:FRK  
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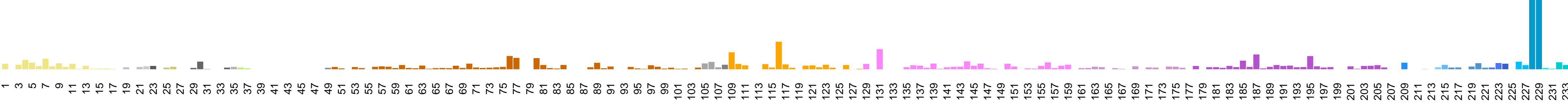


Pkinase.HG3.27:FRK  
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UMI per 10k

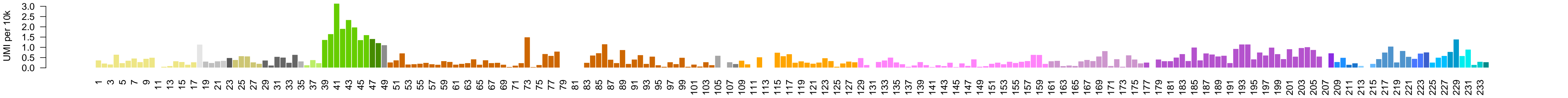


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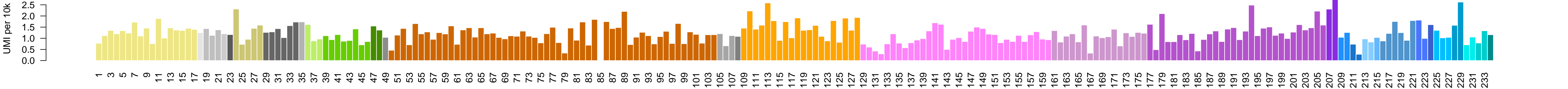


Pkinase.HG3.33:like:BLK/FGR/FYN/HCK/LCK/LYN/SRC/YES1

HoiH23\_PIH23\_003195



Pkinase.HG47.1:CSNK2A1/CSNK2A2/CSNK2A3  
HoiH23\_PIH23\_003298

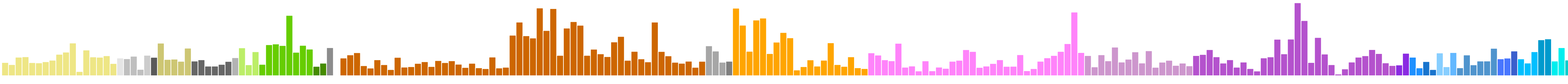


UMI per 10k

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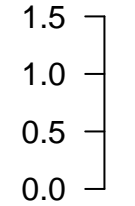
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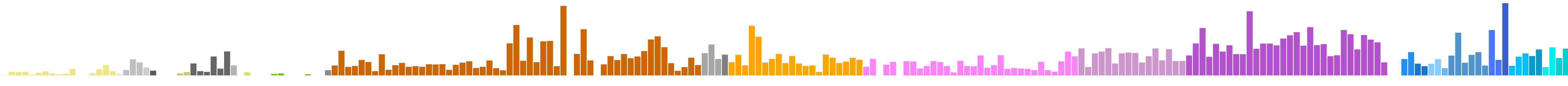


Pkinase.HG10.7:SLK/STK10  
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UMI per 10k

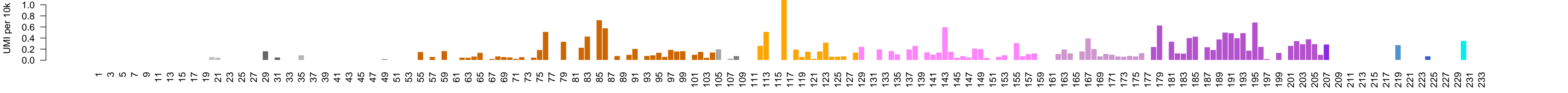


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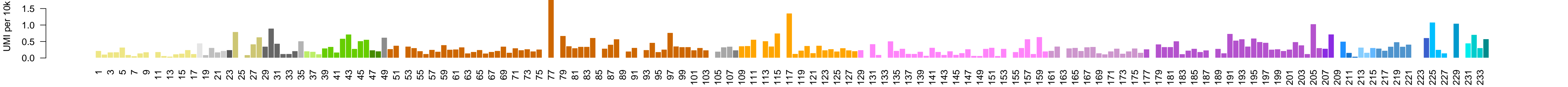




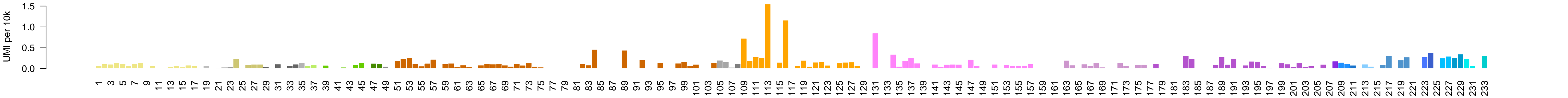
Pkinase.HG18.2:like:RYK  
HoiH23\_PIH23\_003503



Pkinase.HG10.3:OXSR1/STK39  
HoiH23\_PIH23\_003637



Pkinase.HG15.1:CLK1/CLK2/CLK3/CLK4  
HoiH23\_PIH23\_003644

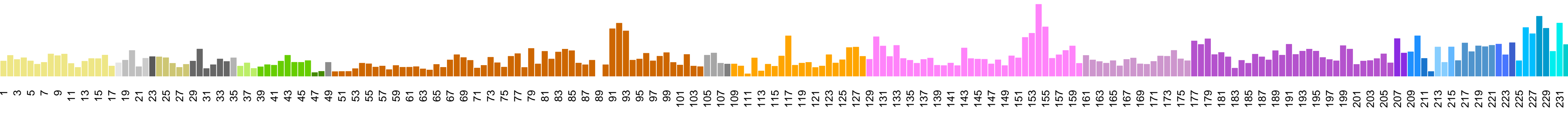


Pkinase.HG22.8:CSNK1A1/CSNK1A1L  
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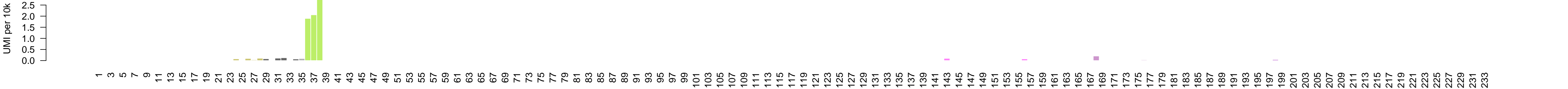
UMI per 10k

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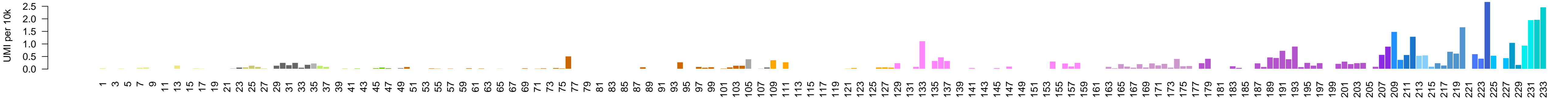
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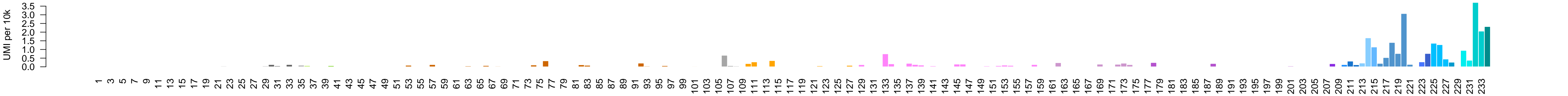
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HoiH23\_PIH23\_003732



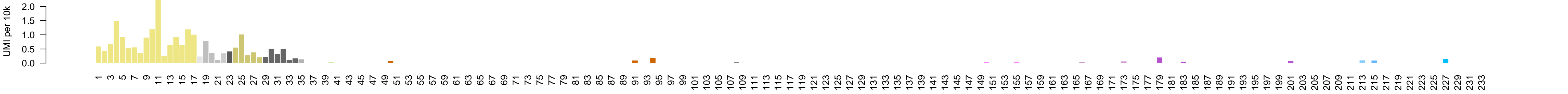
Pkinase.HG13.15:GUCY2D/GUCY2F  
HoiH23\_PIH23\_003833



Pkinase.HG13.5:like:GUCY2C/GUCY2D/GUCY2F/NPR1/NPR2  
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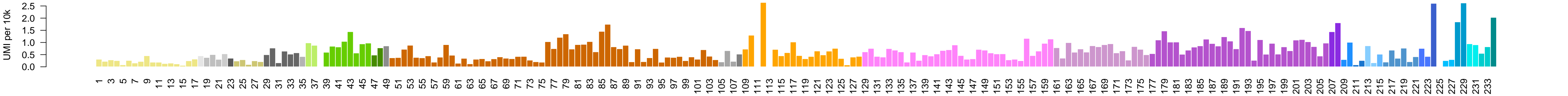


Pkinase.HG32.14:like:LRRK2  
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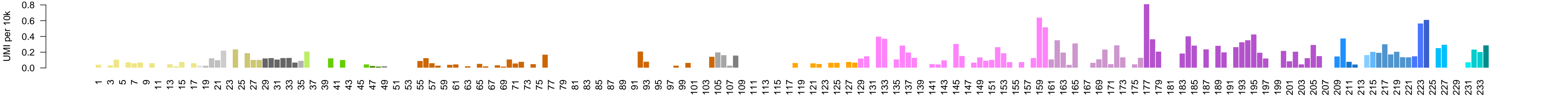




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HoiH23\_PIH23\_004028

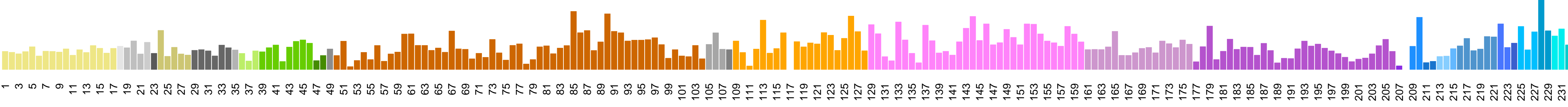
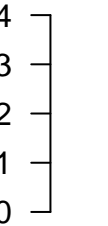


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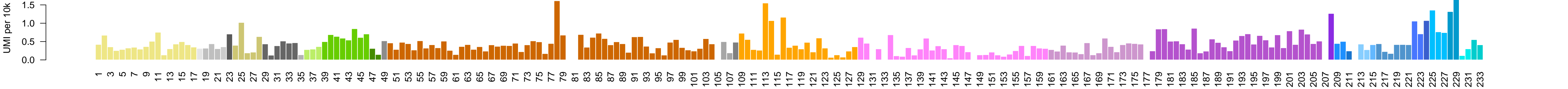


Pkinase.HG29.5:PRKACA/PRKACB/PRKACG  
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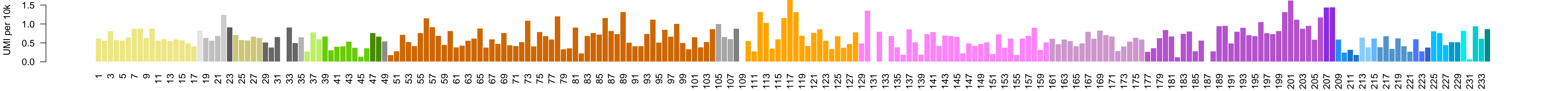
UMI per 10k



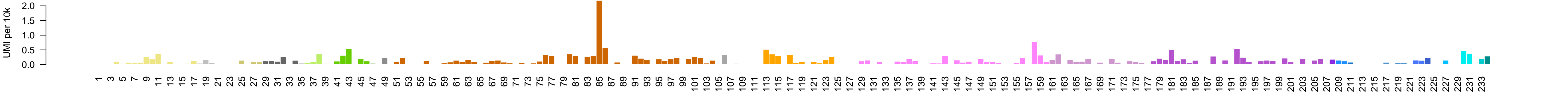
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Pkinase.HG4.7:CDK9  
HoiH23\_PIH23\_004175

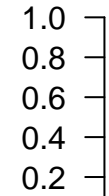


Pkinase.HG14.10:RPS6KA4/RPS6KA5  
HoiH23\_PIH23\_004258

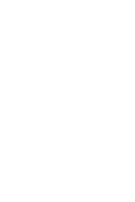
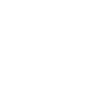


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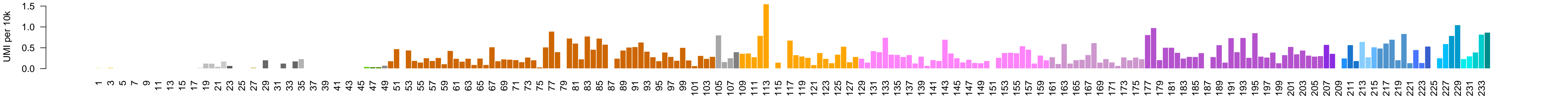
UMI per 10k



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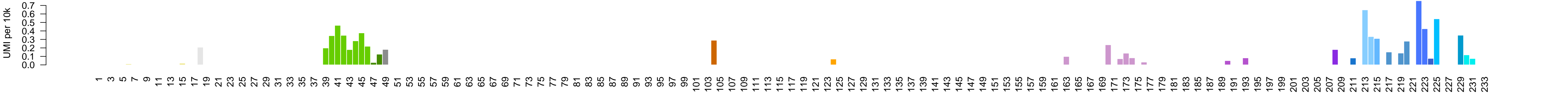


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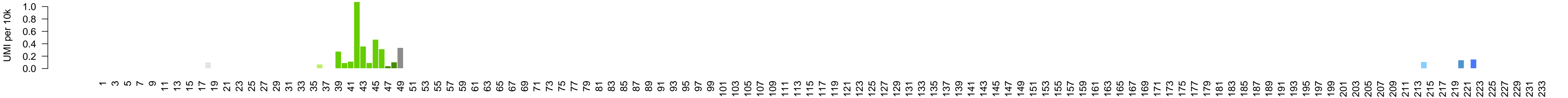




Pkinase.HG31.0:like:DSTYK  
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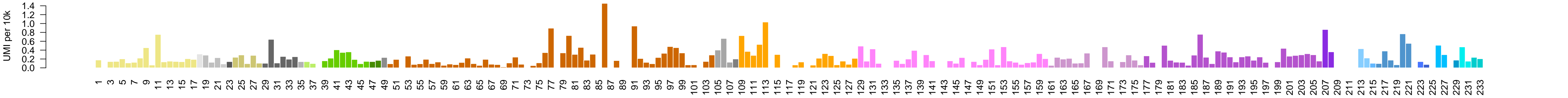


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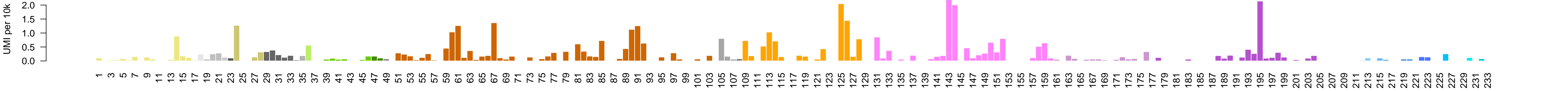


Pkinase.HG5.13:MAP3K9/MAP3K10/MAP3K11/MAP3K21

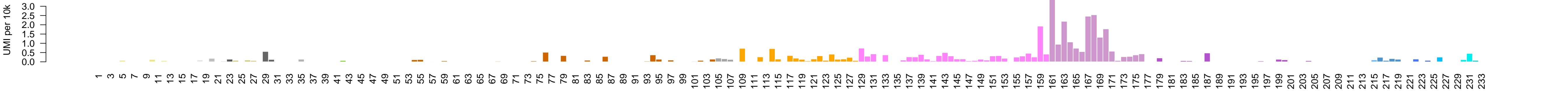
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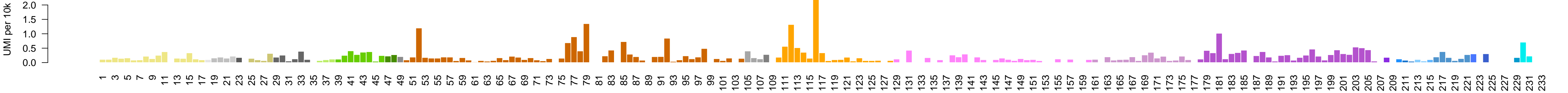
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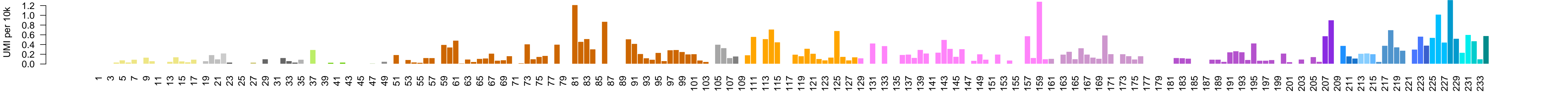
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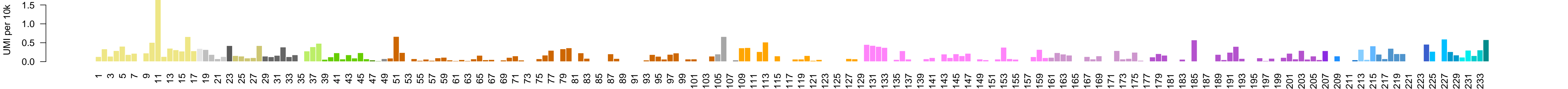
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Pkinase.HG2.3:PASK  
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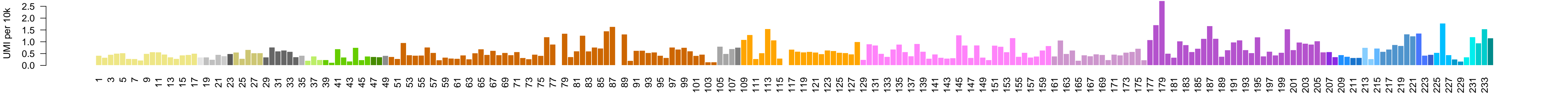


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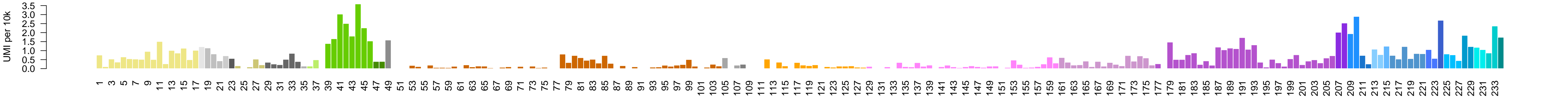




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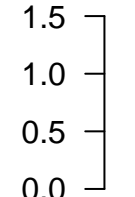


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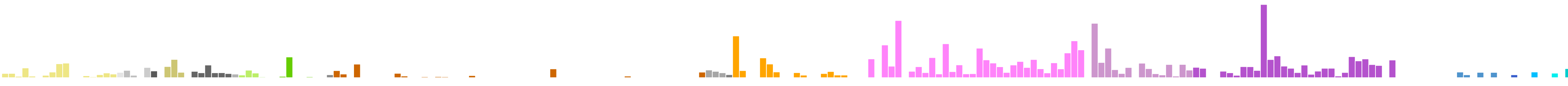


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UMI per 10k

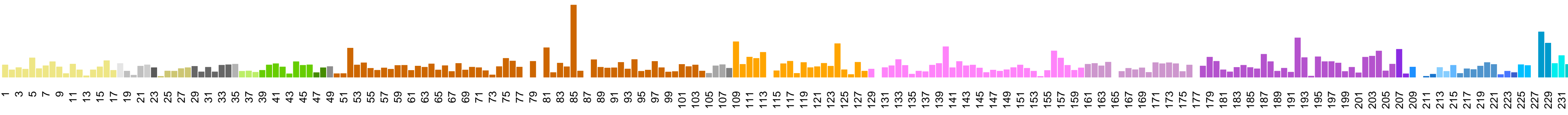


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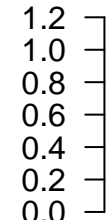


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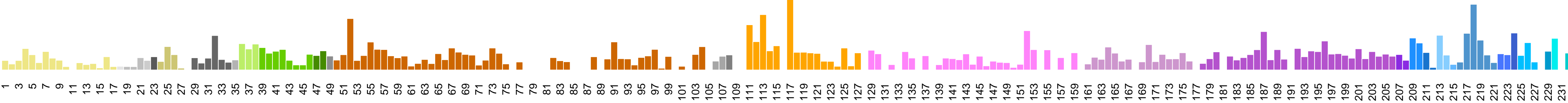
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UMI per 10k



Pkinase.HG2.14:STK40  
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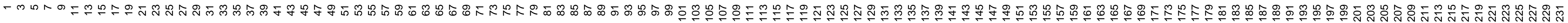


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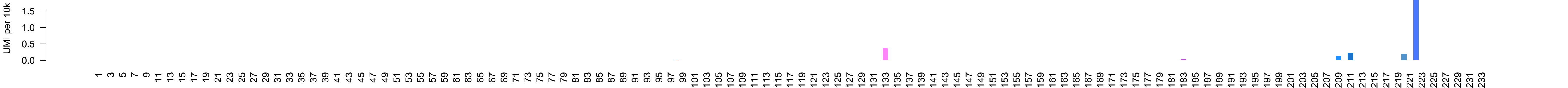
UMI per 10k

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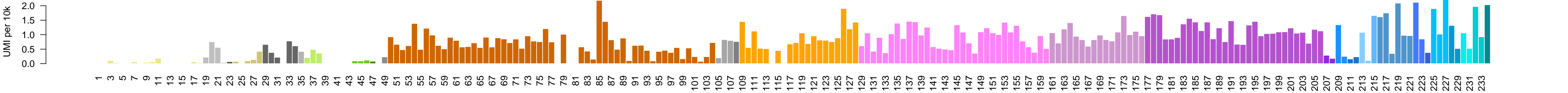
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Pkinase.HG7.8:NEK6/NEK7  
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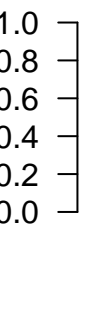


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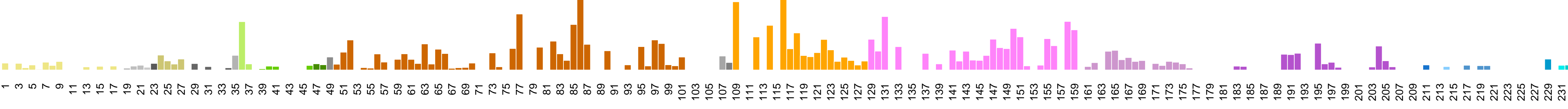
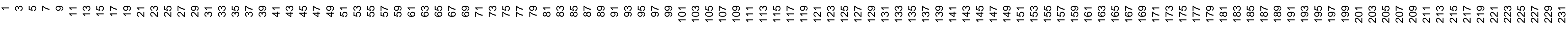




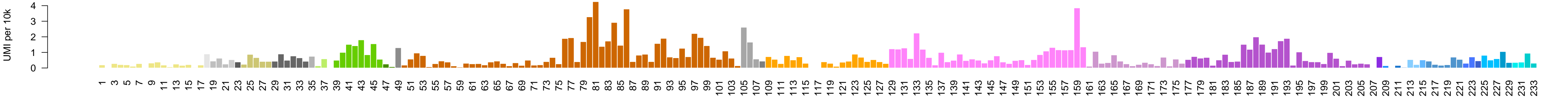
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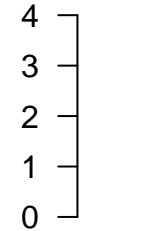


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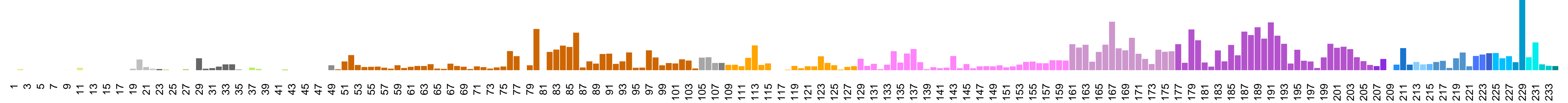


Pkinase.HG22.0:TTBK1/TTBK2  
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UMI per 10k

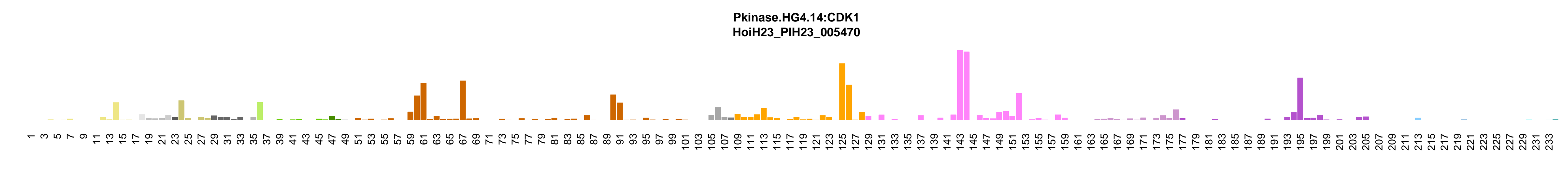


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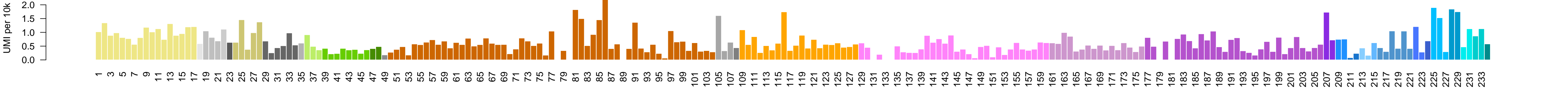


UMI per 10k

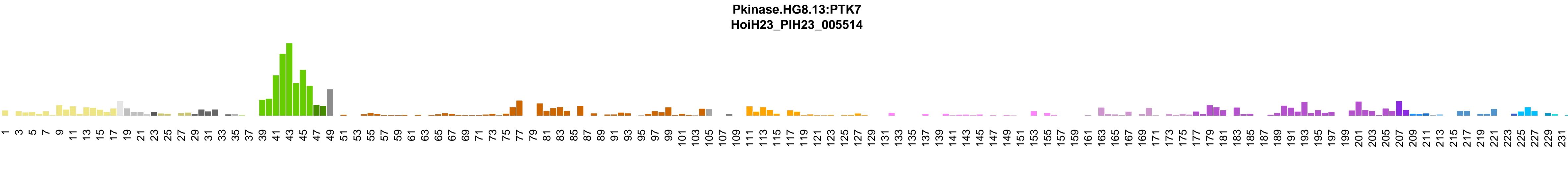
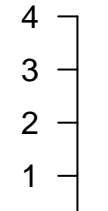
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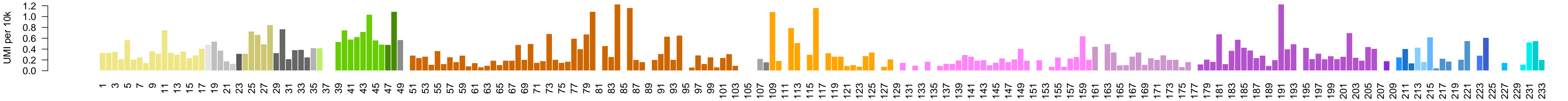


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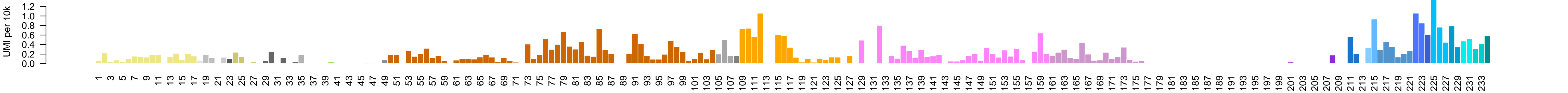


Pkinase.HG8.13:PTK7  
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Pkinase.HG44.5:AL451136.1/TESK1/TESK2  
HoiH23\_PIH23\_005552

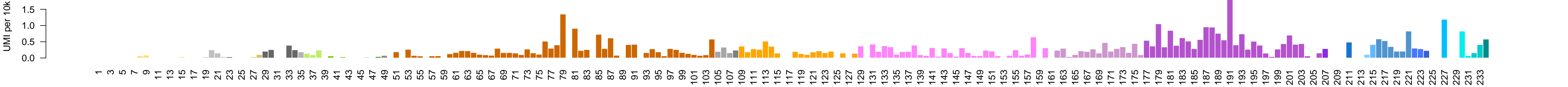


Pkinase.HG19.8:MAP3K1  
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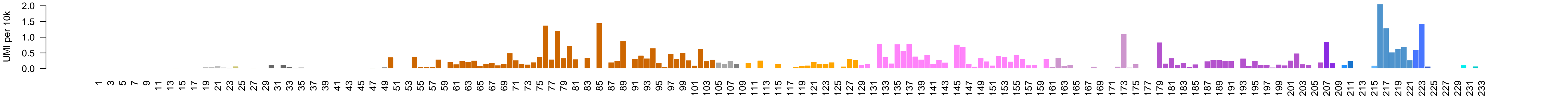




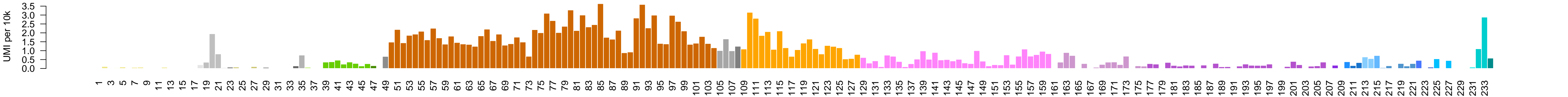
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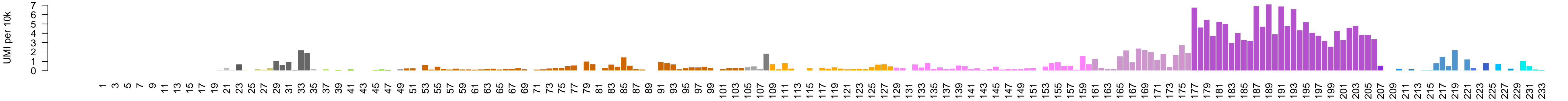
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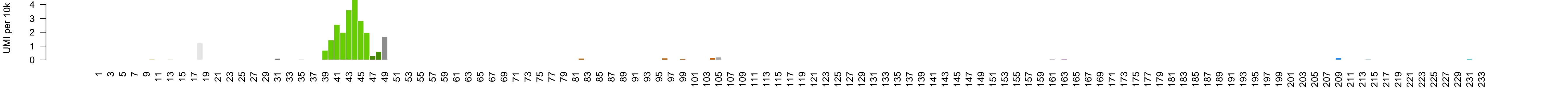
Pkinase.HG12.0:C8orf44-SGK3/SGK1/SGK2/SGK3  
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Pkinase.HG7.14:STKLD1  
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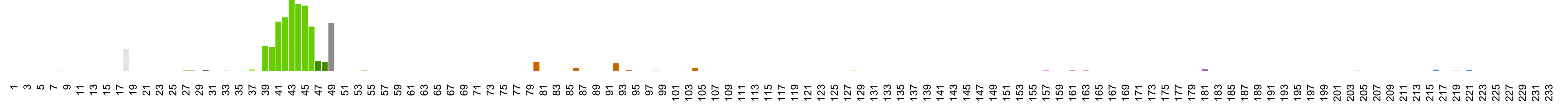
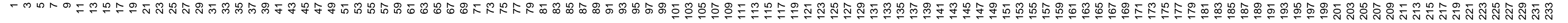
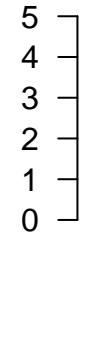


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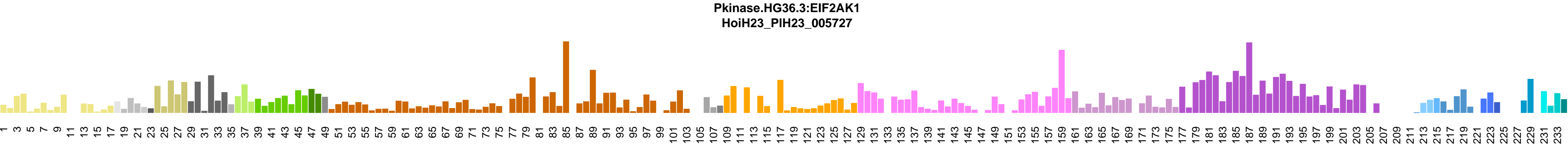
Pkinase.HG8.5:DDR1/DDR2  
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UMI per 10k



UMI per 10k

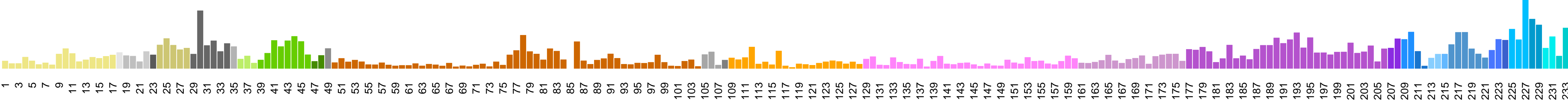
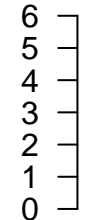
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0.8  
0.6  
0.4  
0.2  
0.0



Pkinase.HG40.4:like:GRK1/GRK2/GRK3/GRK4/GRK5/GRK6/GRK7;RGS.HG2.0:GRK1/GRK4/GRK5/GRK6/GRK7

HoiH23\_PIH23\_005750

UMI per 10k



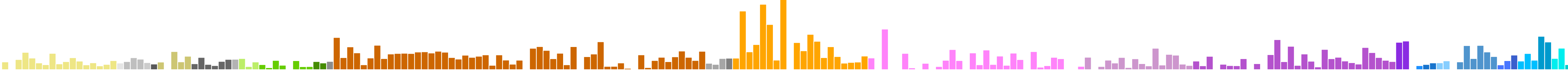


UMI per 10k

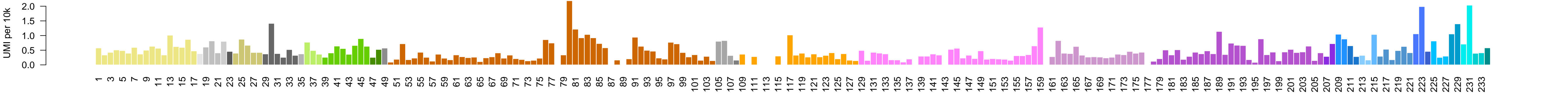
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Pkinase.HG6.5:CHEK2  
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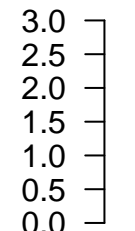
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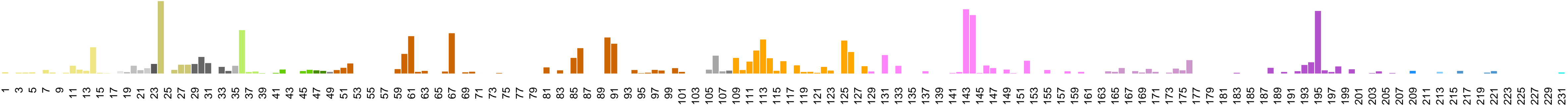
Pkinase.HG17.1:MAPK1/MAPK3  
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UMI per 10k

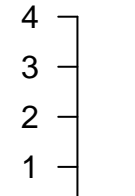


Pkinase.HG2.20:MELK  
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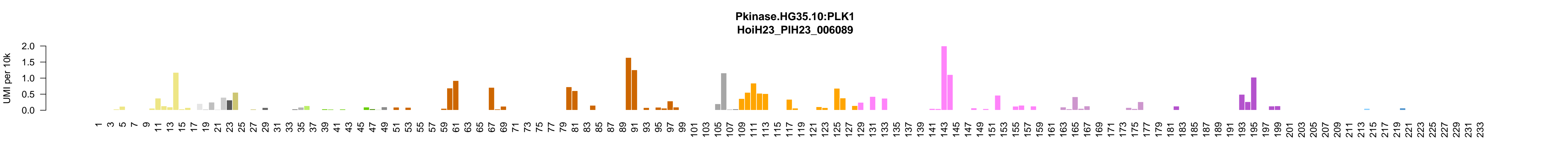
Pkinase.HG35.10:PLK1  
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UMI per 10k

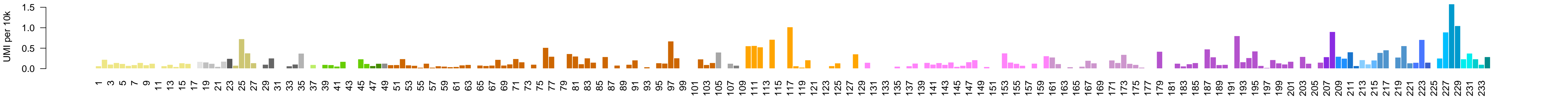


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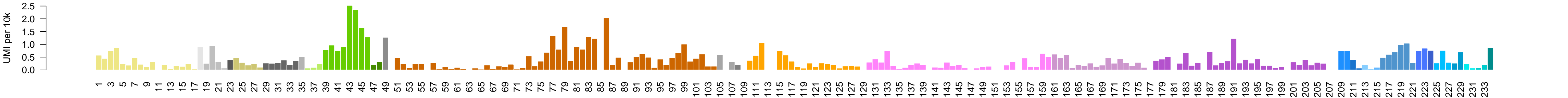


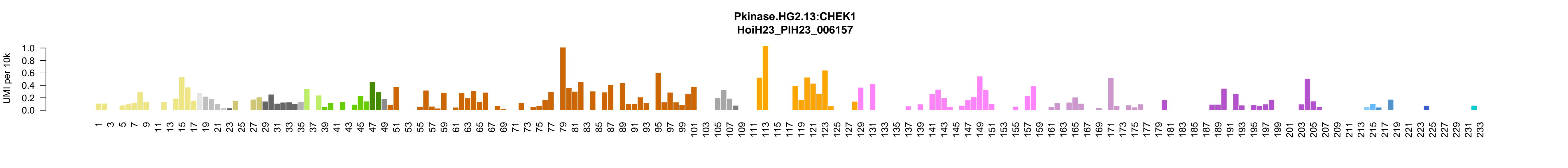


Pkinase.HG2.37:SIK1/SIK1B/SIK2/SIK3  
HoiH23\_PIH23\_006141



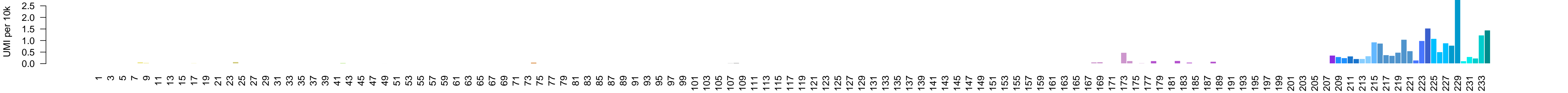
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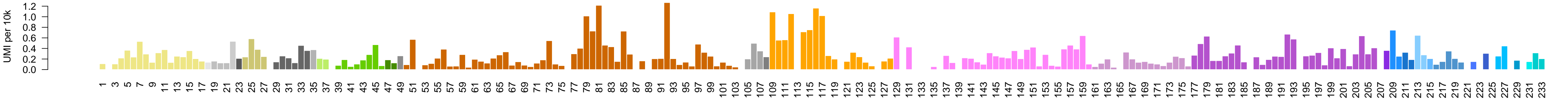




Pkinase.HG42.1:like:ARAF/BRAF/KSR1/KSR2/RAF1  
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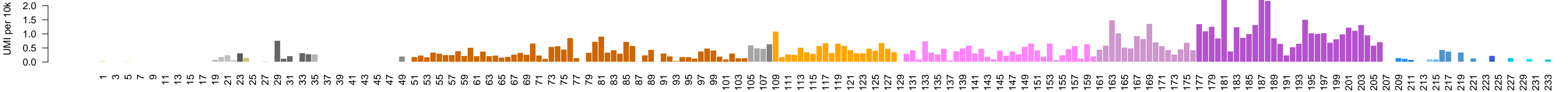


Pkinase.HG15.5:DYRK1A/DYRK1B  
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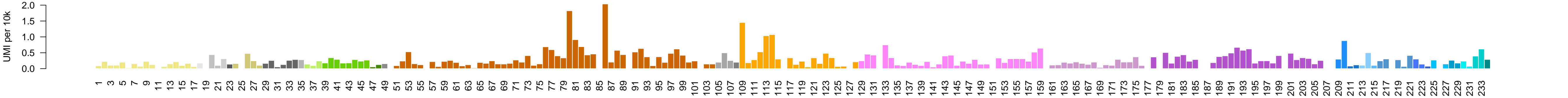


Pkinase.HG21.4:like:EGFR/ERBB2/ERBB3/ERBB4/PTK2/PTK2B/SYK/TNK1/TNK2/ZAP70

HoiH23\_PIH23\_006507

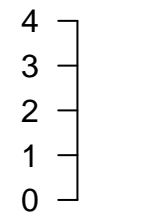


Pkinase.HG12.2:PKN1/PKN2/PKN3  
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Pkinase.HG15.8:AC005832.4/DYRK4  
HoiH23\_PIH23\_006602

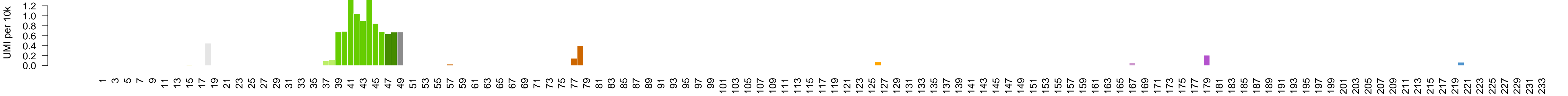
UMI per 10k



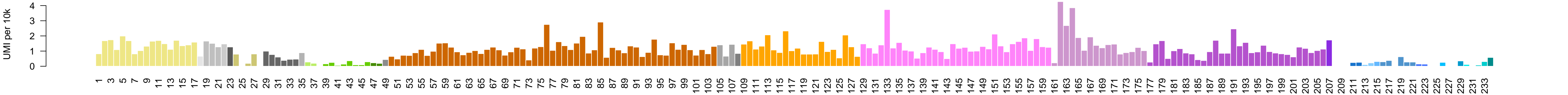
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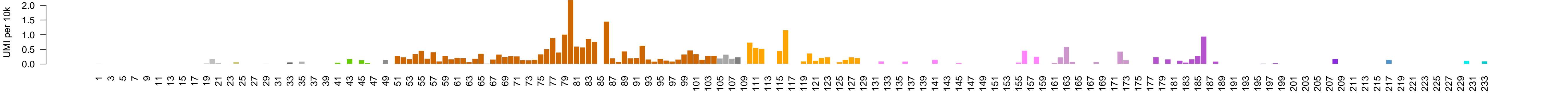
Pkinase.HG48.0:PEAK1/PRAG1  
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Pkinase.HG34.12:like:IRAK1/IRAK2/IRAK3/IRAK4  
HoiH23\_PIH23\_006644

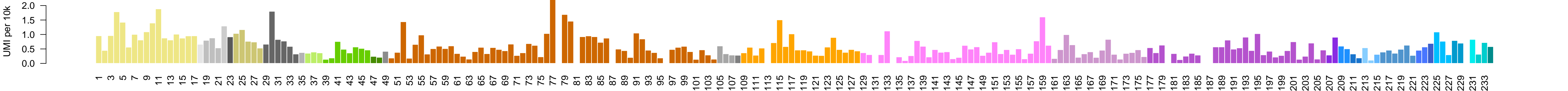


Pkinase.HG3.14:BMX/BTK/ITK/TEC/TXK  
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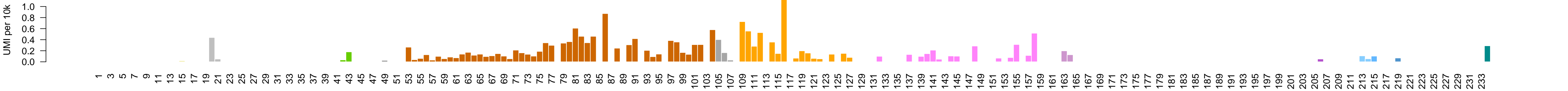




Pkinase.HG2.39:MARK1/MARK2/MARK3/MARK4  
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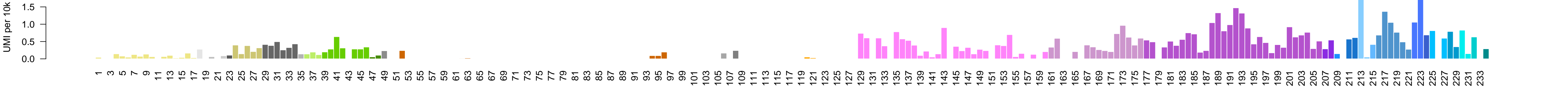


Pkinase.HG22.0:TTBK1/TTBK2  
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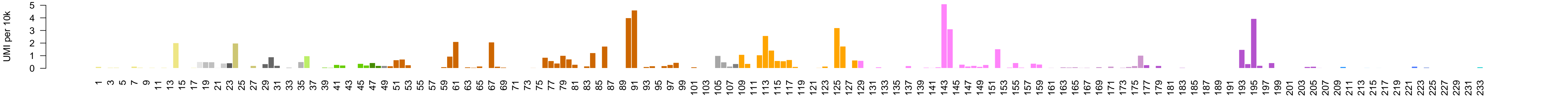


Pkinase.HG28.18:ACVR1/ACVRL1/BMPR1A/BMPR1B

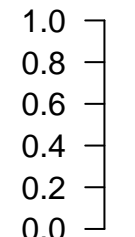
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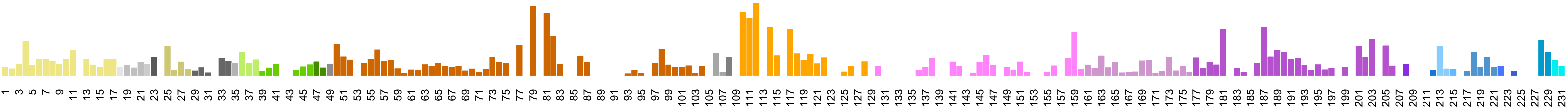
Pkinase.HG16.7:CIT  
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UMI per 10k

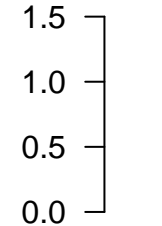


Pkinase.HG60.0:PIK3R4  
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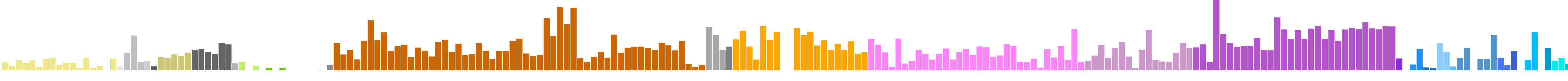


Pkinase.HG12.6:PRKCI/PRKCZ  
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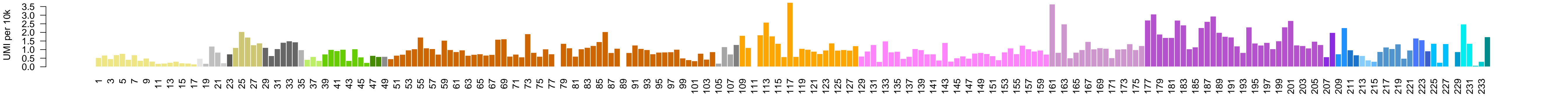
UMI per 10k



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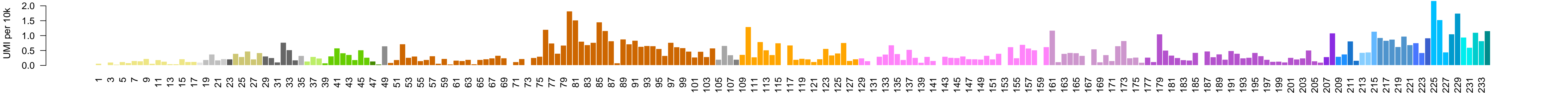


Pkinase.HG17.3:NLK  
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Pkinase.HG40.10:GRK2/GRK3;RGS.HG2.2:GRK2/GRK3

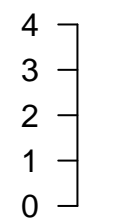
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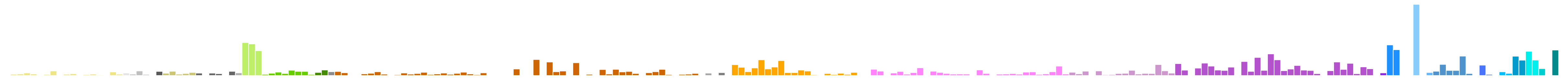


Pkinase.HG2.23:CAMKK1/CAMKK2  
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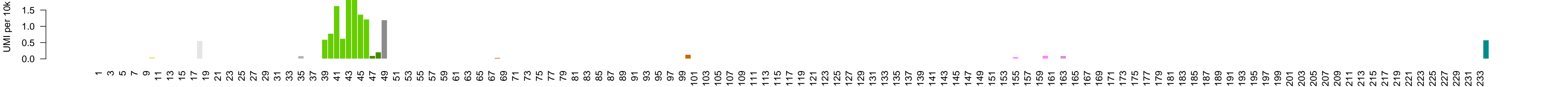
UMI per 10k



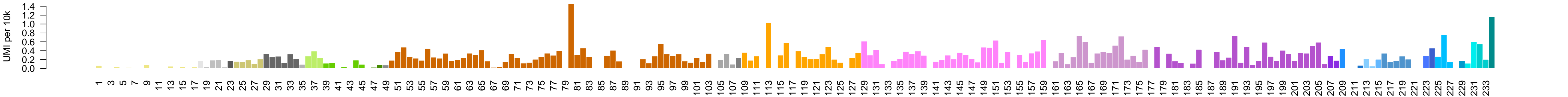
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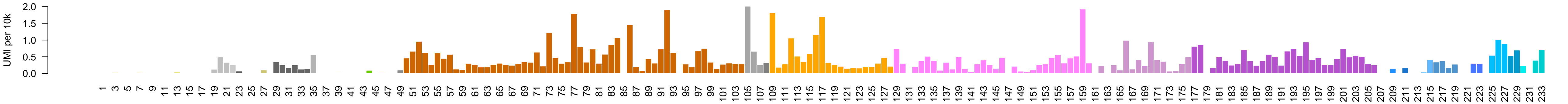
Pkinase.HG1.8:like:AC058822.1/CSF1R/FGFR1/FGFR2/FGFR3/FGFR4/FLT1/FLT3/FLT4/KDR/KIT/PDGFRB/RET  
HoiH23\_PIH23\_007099



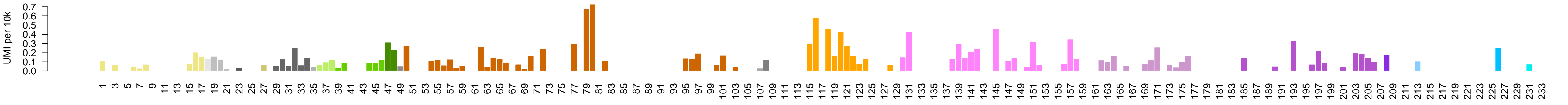
Pkinase.HG7.17:like:NEK1/NEK3/NEK5/NEK8/NEK9  
HoiH23\_PIH23\_007324



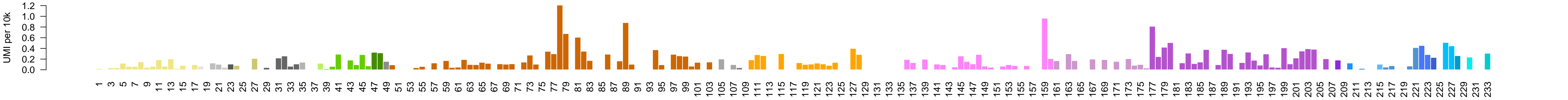
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Pkinase.HG4.15:CDK2/CDK3  
HoiH23\_PIH23\_007389

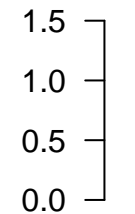


Pkinase.HG28.3:ACVR2A/ACVR2B  
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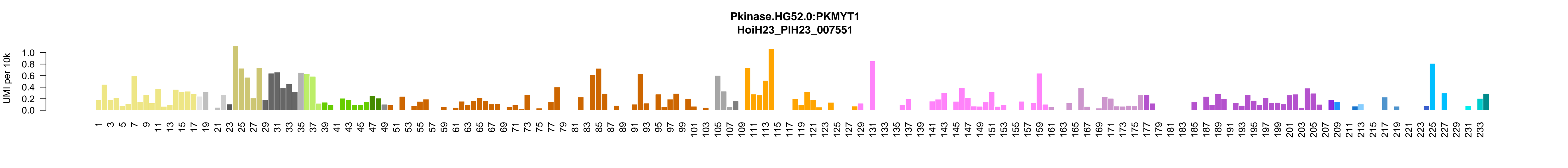
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UMI per 10k



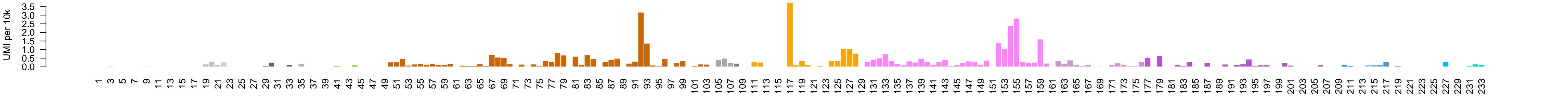
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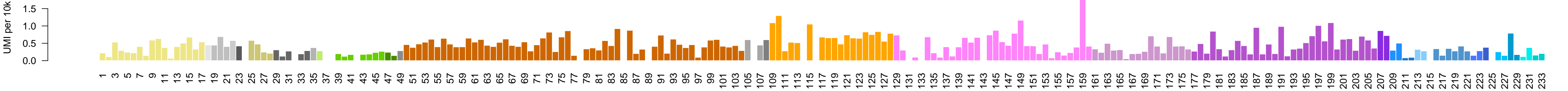




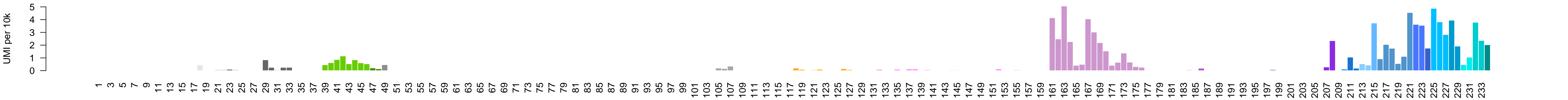
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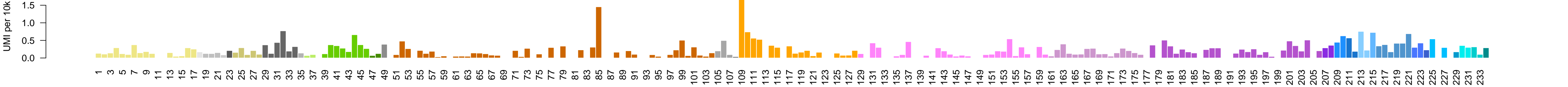
Pkinase.HG17.12:MAPK11/MAPK12/MAPK13/MAPK14  
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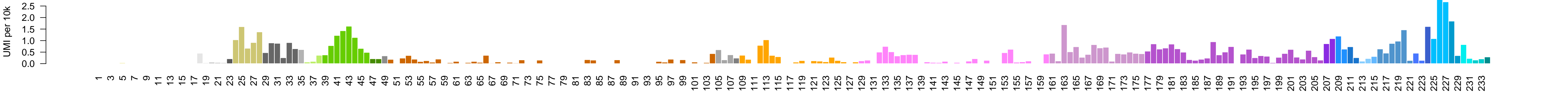
Pkinase.HG14.3:STK32A/STK32B/STK32C  
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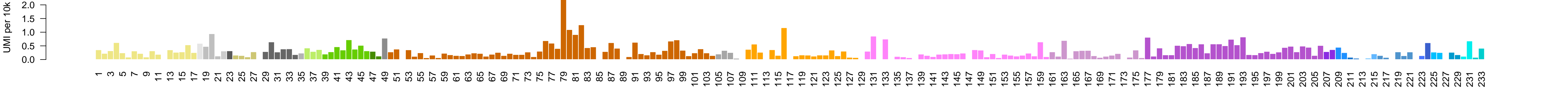
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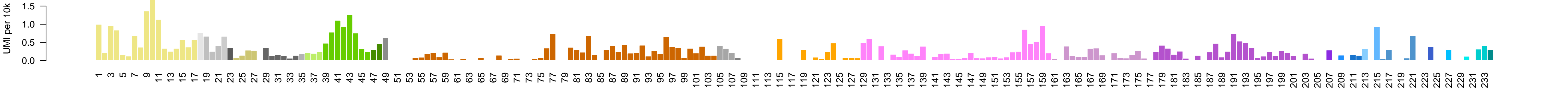
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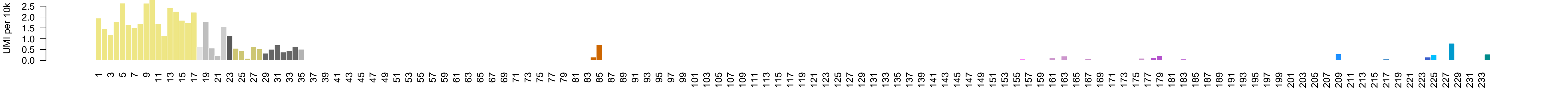
Pkinase.HG36.2:EIF2AK3  
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Pkinase.HG34.12:like:IRAK1/IRAK2/IRAK3/IRAK4  
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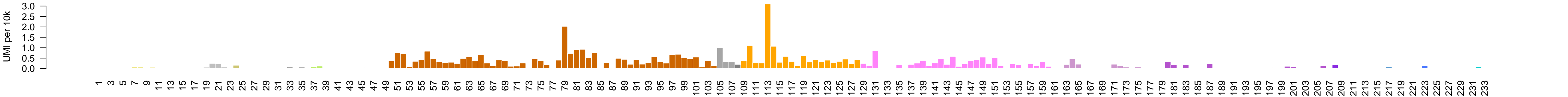


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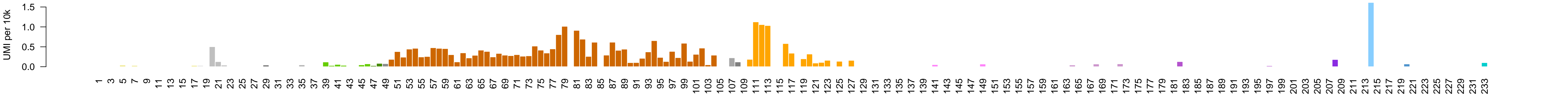




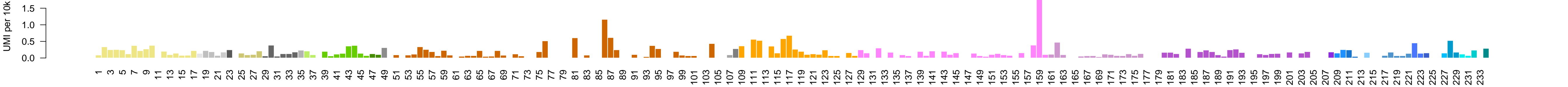
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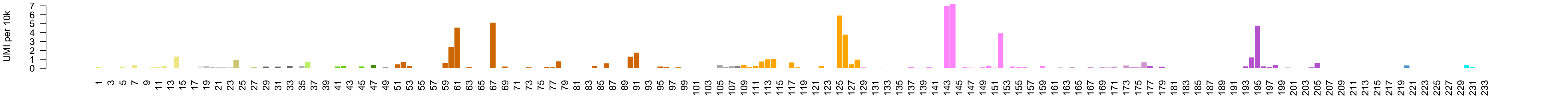
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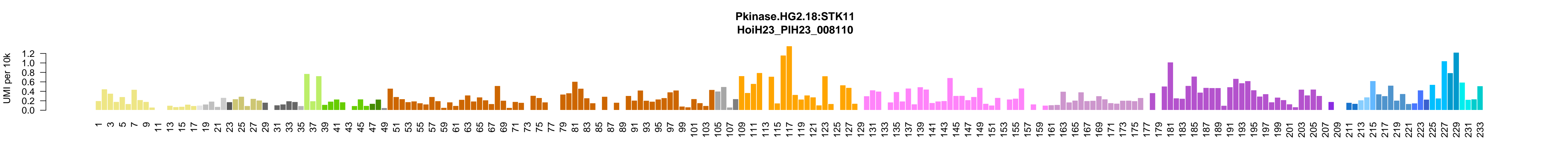


Pkinase.HG16.0:RNASEL  
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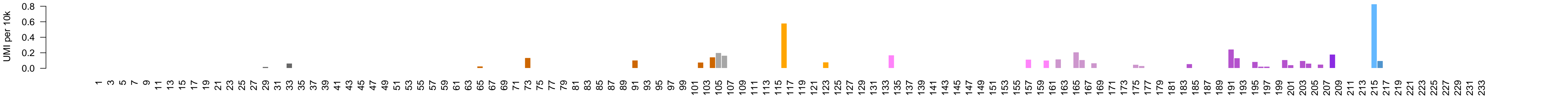


Pkinase.HG35.5:AURKA/AURKB/AURKC  
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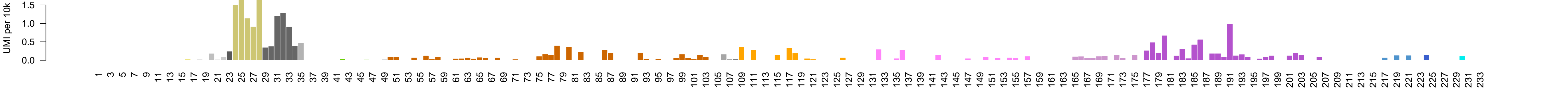




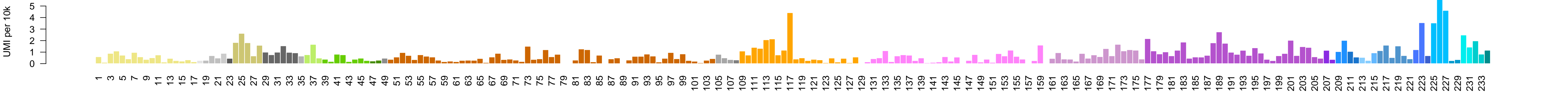
Pkinase.HG1.7:like:STYK1  
HoiH23\_PIH23\_008146



Pkinase.HG1.7:like:STYK1  
HoiH23\_PIH23\_008147

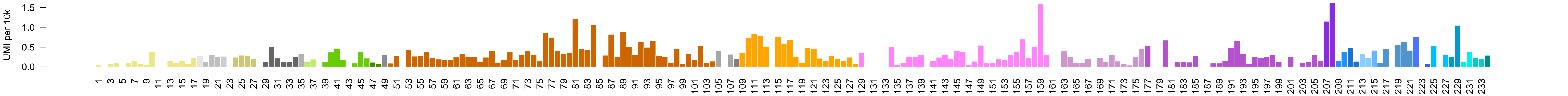


Pkinase.HG2.15:TRIB1/TRIB2/TRIB3  
HoiH23\_PIH23\_008188

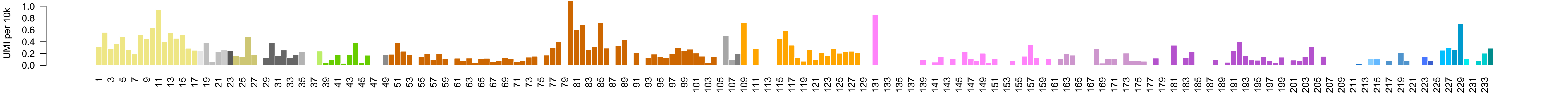




Pkinase.HG4.8:CDK8/CDK19  
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Pkinase.HG19.4:MAP3K5/MAP3K6/MAP3K15  
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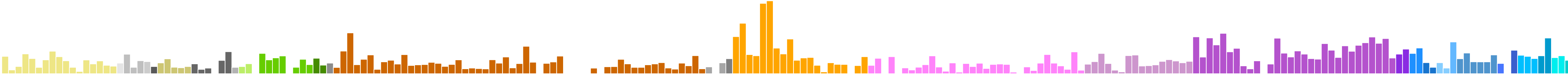


UMI per 10k

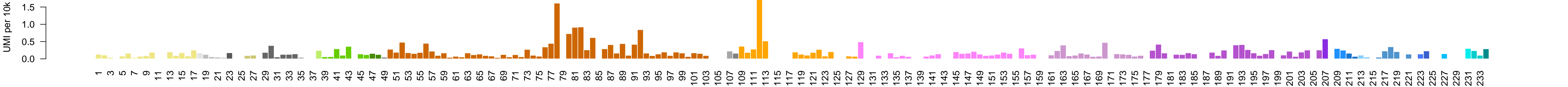
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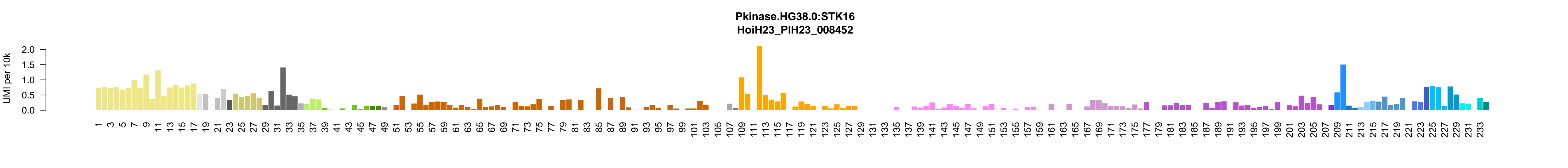
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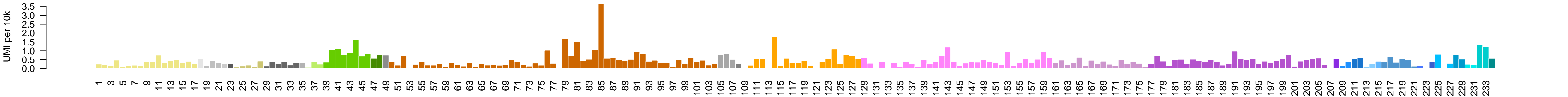


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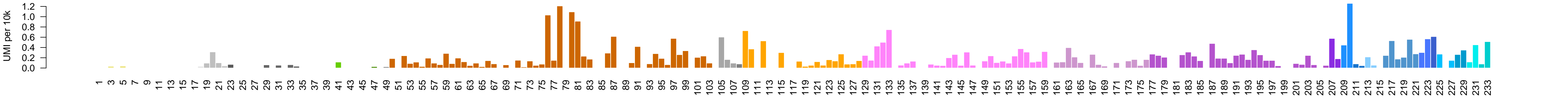




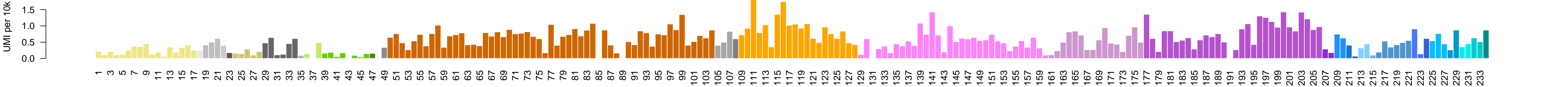
Pkinase.HG12.4:like:C8orf44-SGK3/SGK1/SGK2/SGK3  
HoiH23\_PIH23\_008482



Pkinase.HG7.21:like:NEK8  
HoiH23\_PIH23\_008578

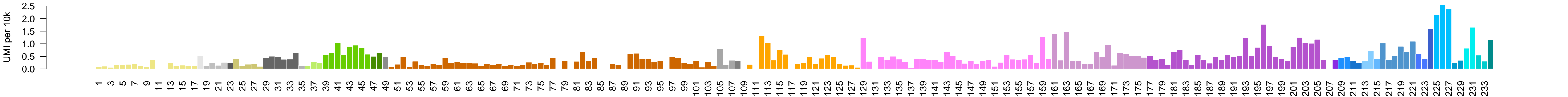


Pkinase.HG14.4:MAPKAPK2/MAPKAPK3  
HoiH23\_PIH23\_008716

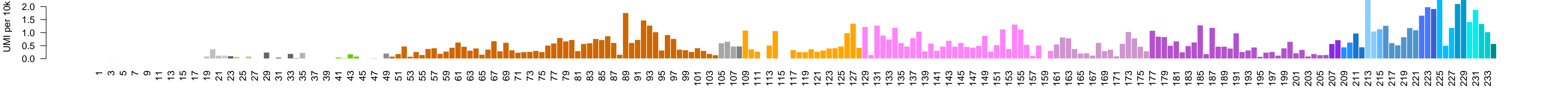




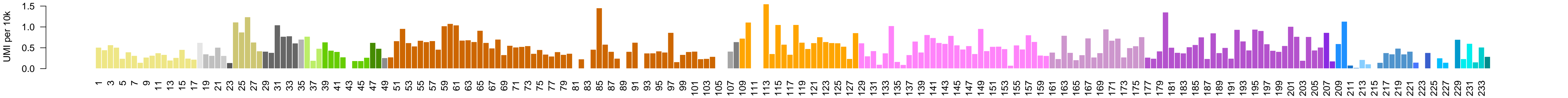
Pkinase.HG53.1:SRPK1/SRPK2/SRPK3  
HoiH23\_PIH23\_008988



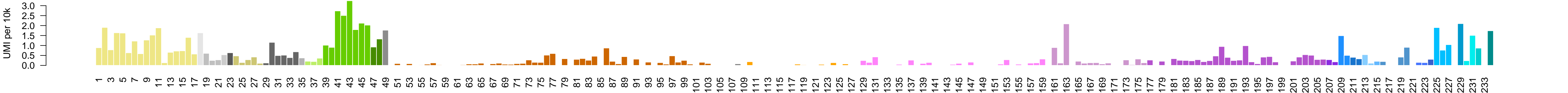
Pkinase.HG39.5:CDKL1/CDKL4  
HoiH23\_PIH23\_009088



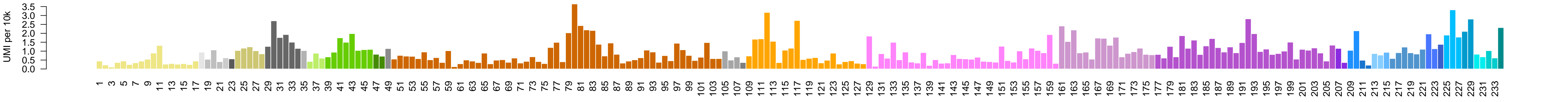
Pkinase.HG4.8:CDK8/CDK19  
HoiH23\_PIH23\_009191



Pkinase.HG30.2:EPHA1/EPHA2/EPHA3/EPHA4/EPHA5/EPHA6/EPHA7/EPHA8/EPHA10/EPHB1/EPHB2/EPHB3/EPHB4/EPHB6  
HoiH23\_PIH23\_009212



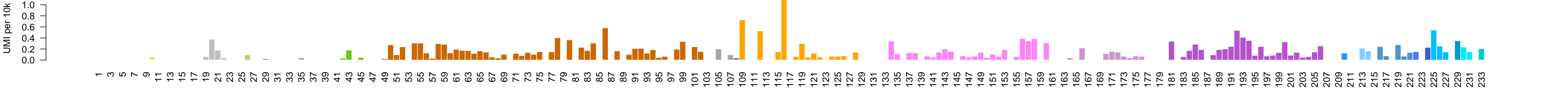
Pkinase.HG45.1:WNK1/WNK2/WNK3/WNK4  
HoiH23\_PIH23\_009337



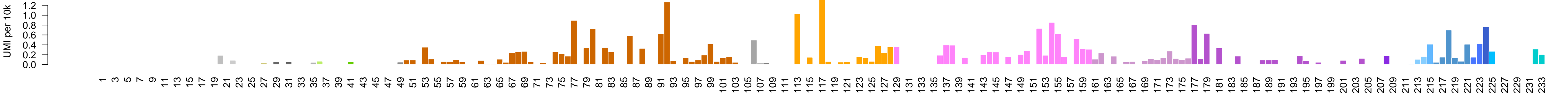
Pkinase.HG25.1:CHUK/IKBKB  
HoiH23\_PIH23\_009338



Pkinase.HG7.10:NEK11  
HoiH23\_PIH23\_009383

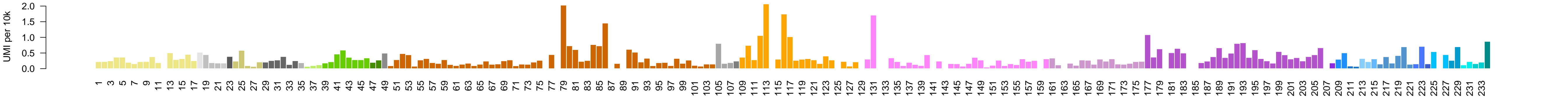


Pkinase.HG37.1:MOK  
HoiH23\_PIH23\_009422

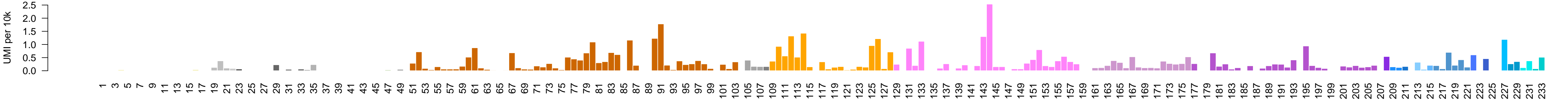




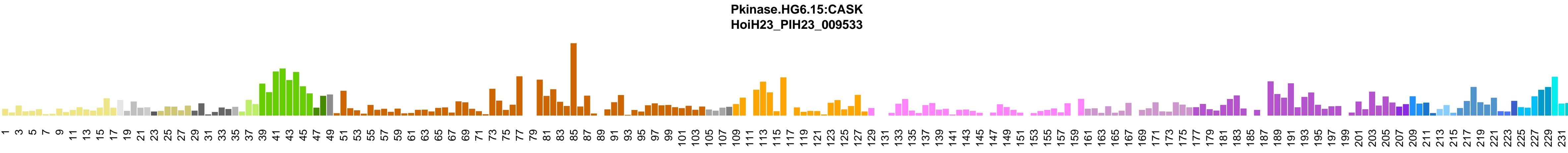
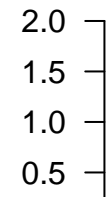
Pkinase.HG10.12:MAP4K4/MINK1/NRK/TNIK  
HoiH23\_PIH23\_009505



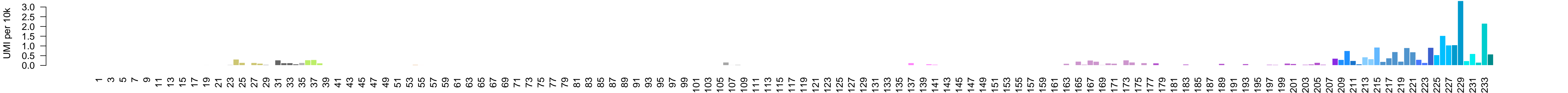
Pkinase.HG7.20:NEK1  
HoiH23\_PIH23\_009529



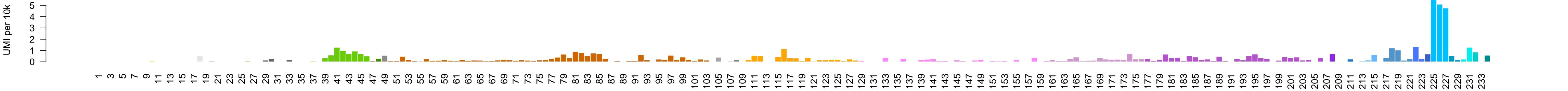
UMI per 10k



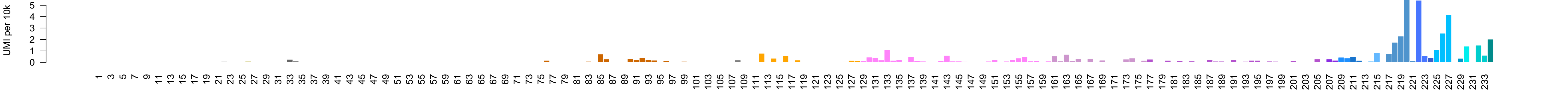
Pkinase.HG6.10:PRKD1/PRKD2/PRKD3  
HoiH23\_PIH23\_009713



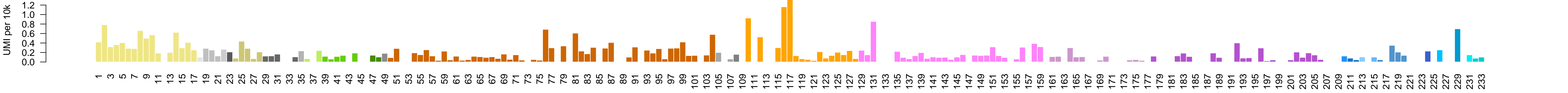
Pkinase.HG12.10:AL355916.3/PRKCE/PRKCH  
HoiH23\_PIH23\_009716



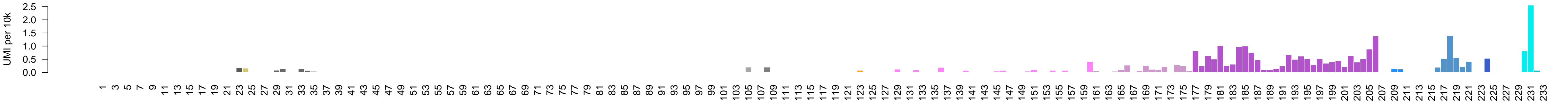
Pkinase.HG13.15:GUCY2D/GUCY2F  
HoiH23\_PIH23\_009783



Pkinase.HG51.0:like:SCYL1/SCYL2  
HoiH23\_PIH23\_009870

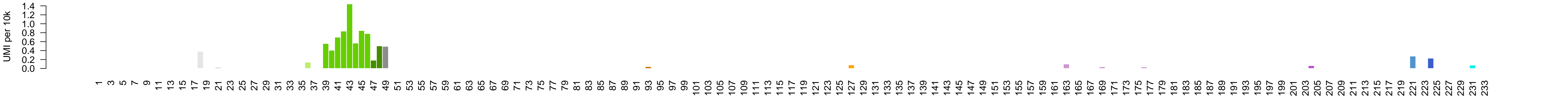


Pkinase.HG6.19:like:CAMK2A/CAMK2B/CAMK2D/CAMK2G  
HoiH23\_PIH23\_009894





Pkinase.HG34.12:like:IRAK1/IRAK2/IRAK3/IRAK4  
HoiH23\_PIH23\_010001



Pkinase.HG34.12:like:IRAK1/IRAK2/IRAK3/IRAK4  
HoiH23\_PIH23\_010002

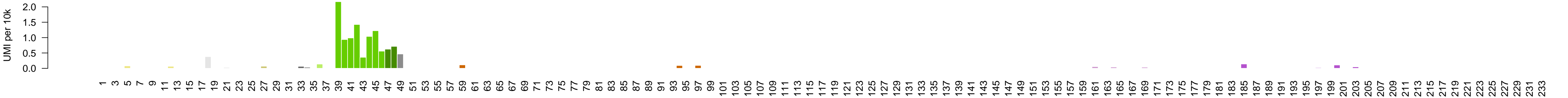
UMI per 10k

3  
2  
1  
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1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83 85 87 89 91 93 95 97 99 101 103 105 107 109 111 113 115 117 119 121 123 125 127 129 131 133 135 137 139 141 143 145 147 149 151 153 155 157 159 161 163 165 167 169 171 173 175 177 179 181 183 185 187 189 191 193 195 197 199 201 203 205 207 209 211 213 215 217 219 221 223 225 227 229 231 233

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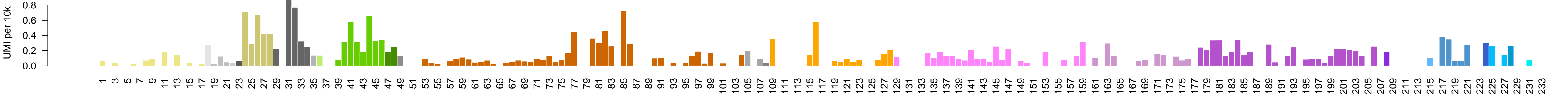
**Pkinase.HG34.12:like:IRAK1/IRAK2/IRAK3/IRAK4**  
**HoiH23\_PIH23\_010003**



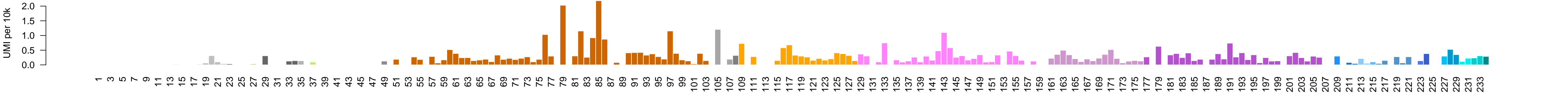
Pkinase.HG34.12:like:IRAK1/IRAK2/IRAK3/IRAK4  
HoiH23\_PIH23\_010004



Pkinase.HG3.20:like:FER/FES  
HoiH23\_PIH23\_010160

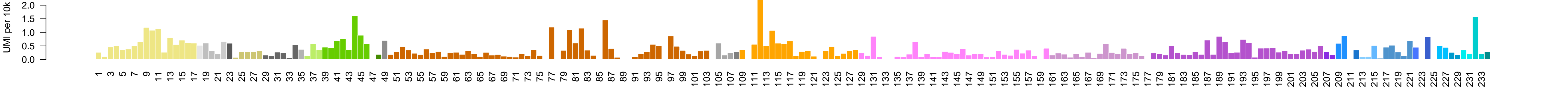


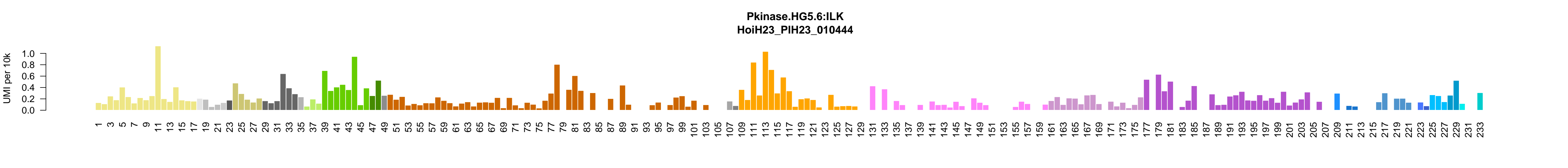
Pkinase.HG17.4:MAPK15  
HoiH23\_PIH23\_010184



Pkinase.HG14.12:RPS6KA1/RPS6KA2/RPS6KA3/RPS6KA6

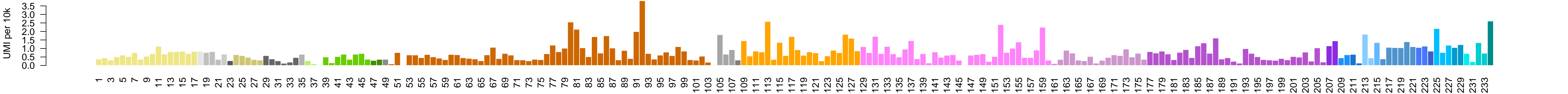
HoiH23\_PIH23\_010225



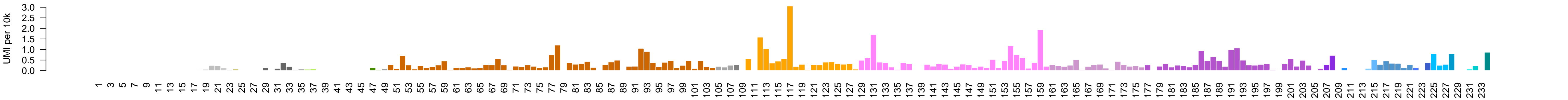




Pkinase.HG37.5:AC006486.1/GSK3A/GSK3B  
HoiH23\_PIH23\_010447



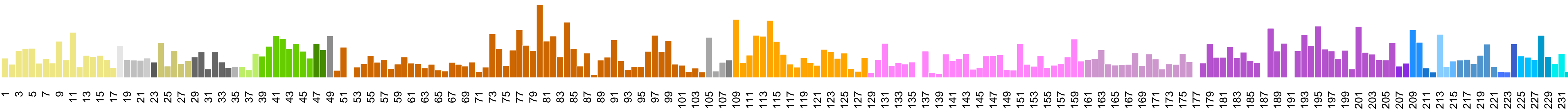
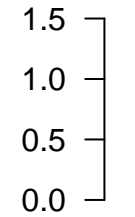
Pkinase.HG39.2:CDKL2/CDKL3  
HoiH23\_PIH23\_010517



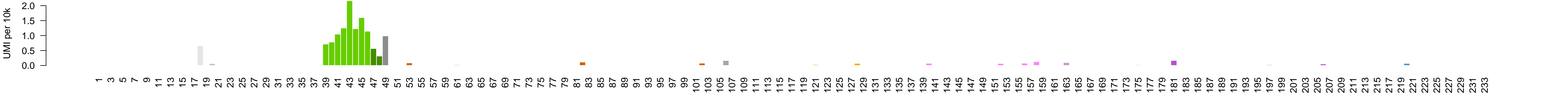


Pkinase.HG41.5:PAK1/PAK2/PAK3  
HoiH23\_PIH23\_010793

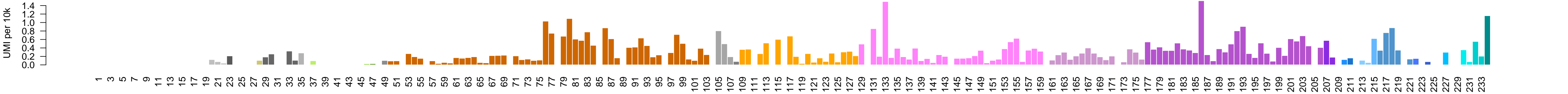
UMI per 10k



Pkinase.HG8.4:like:AATK/AL132671.2/ALK/DDR1/DDR2/IGF1R/INSR/INSRR/LMTK2/LMTK3/LTK/NTRK1/NTRK2/NTRK3/PTK7/ROS1  
HoiH23\_PIH23\_010892

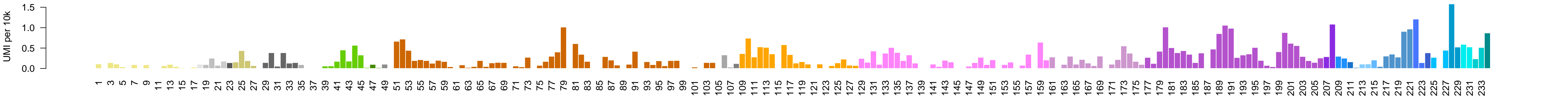


Pkinase.HG6.2:STK33  
HoiH23\_PIH23\_011055

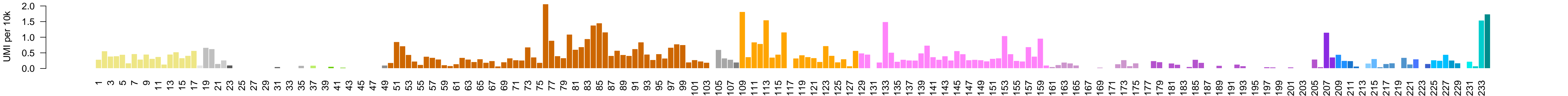


Pkinase.HG28.16:like:ACVR1/ACVR1B/ACVR1C/ACVRL1/BMPR1A/BMPR1B/TGFBR1

HoiH23\_PIH23\_011105

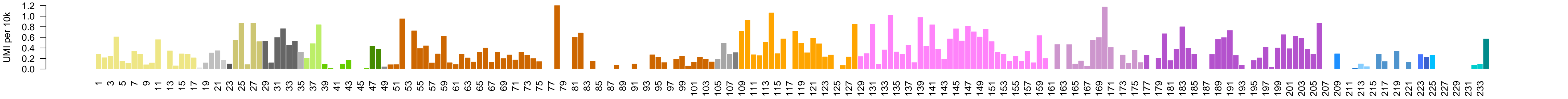


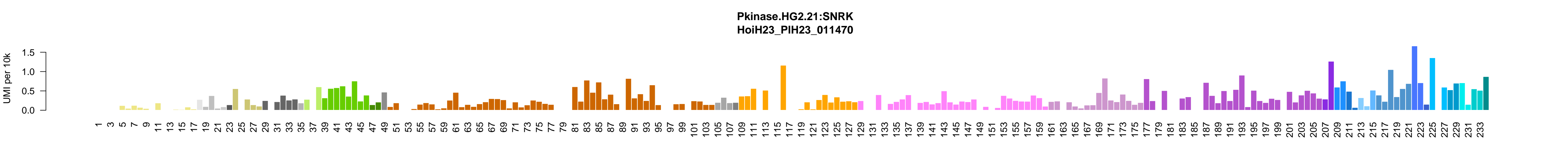
Pkinase.HG28.18:ACVR1/ACVRL1/BMPR1A/BMPR1B  
HoiH23\_PIH23\_011106





Pkinase.HG4.12:CDK4/CDK6  
HoiH23\_PIH23\_011314





Pkinase.HG2.34:NIM1K  
HoiH23\_PIH23\_011806

