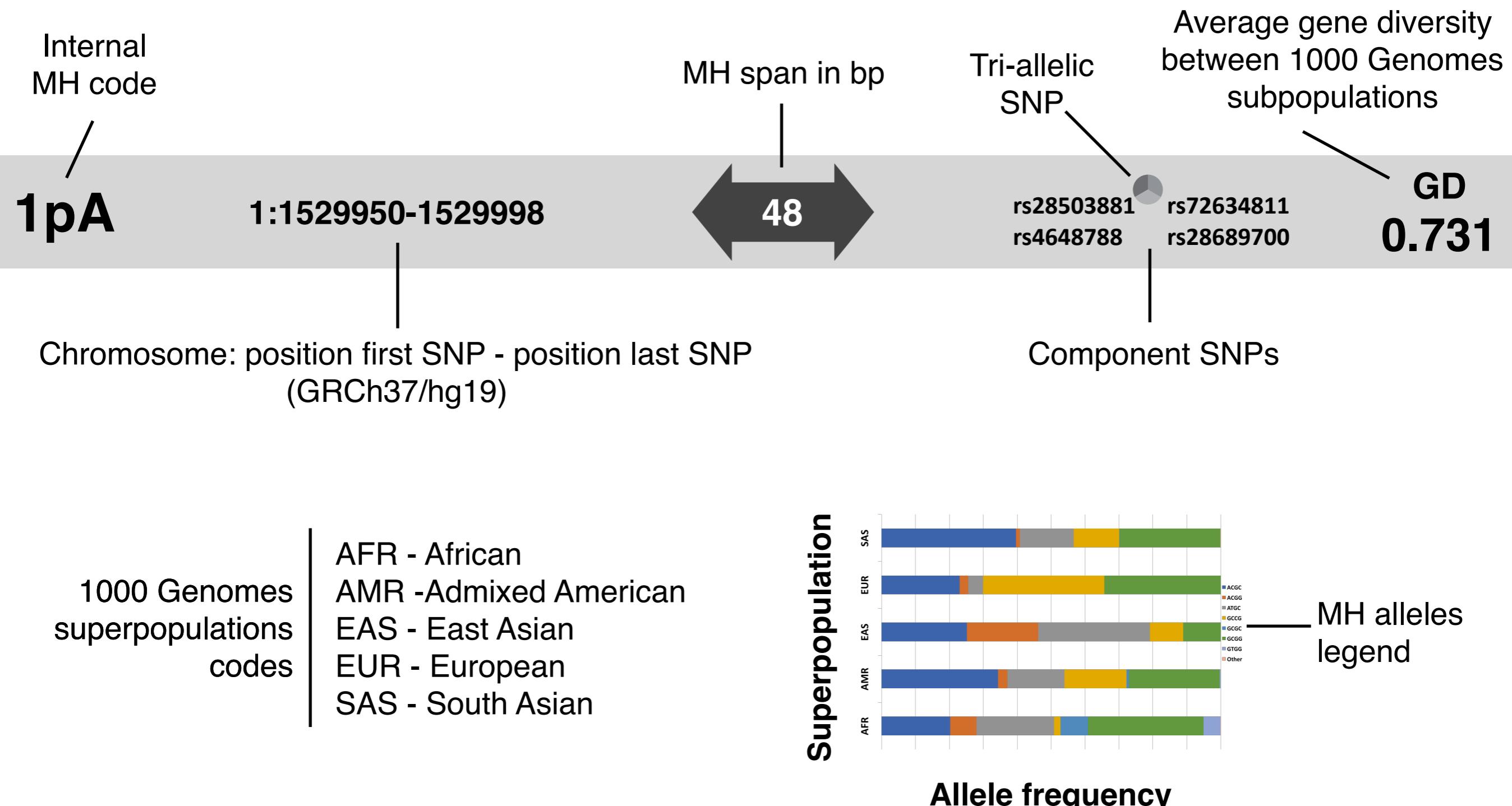


Supplementary File S1

Bar charts showing MH allele frequency data for the five population groups of 1000 Genomes



1 pA

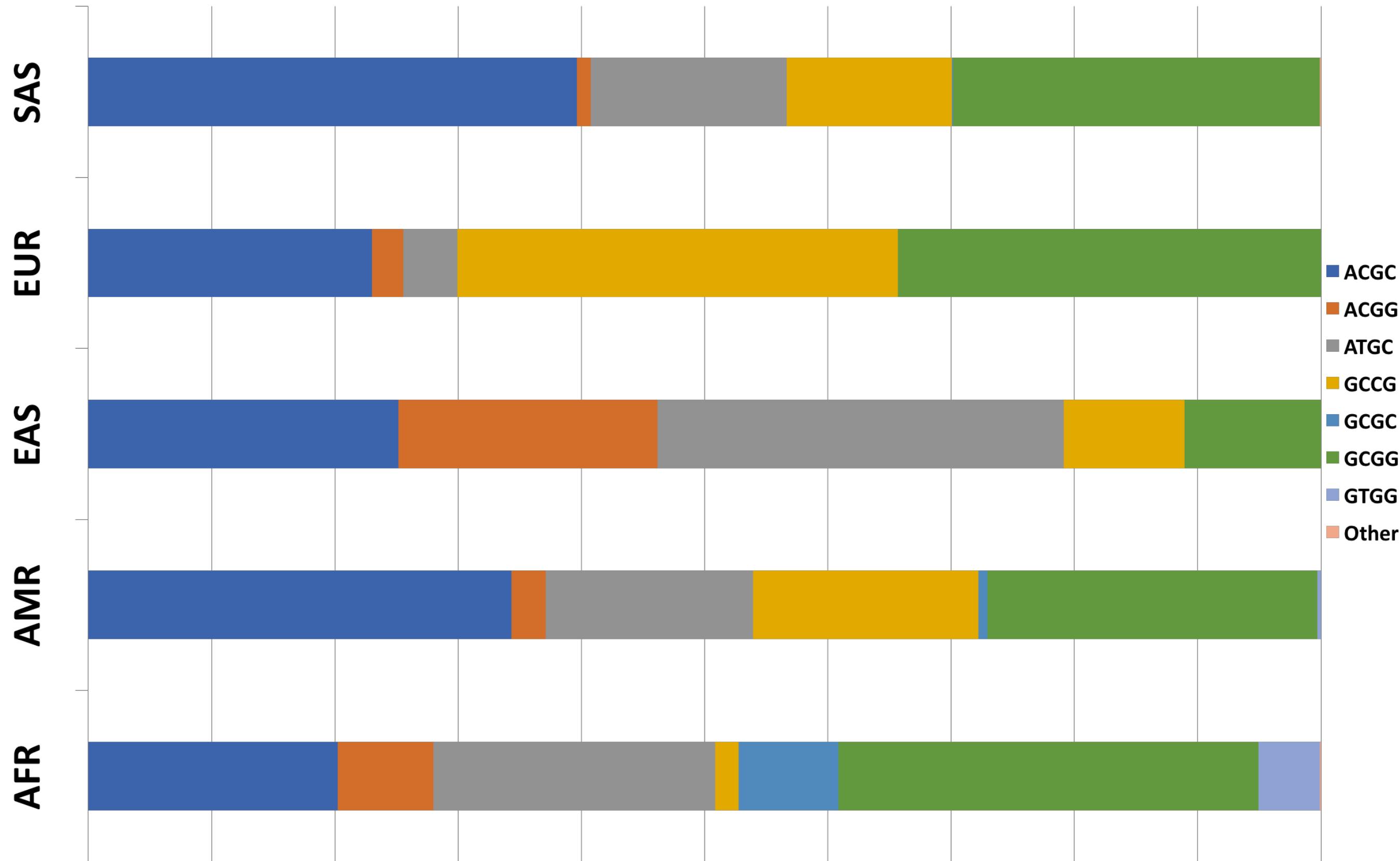
1:1529950-1529998

48

rs28503881
rs4648788

rs72634811
rs28689700

GD
0.731



1 pB

1:53582306-53582325

19

**rs3766785
rs1679910
rs1679911**

**GD
0.654**

SAS

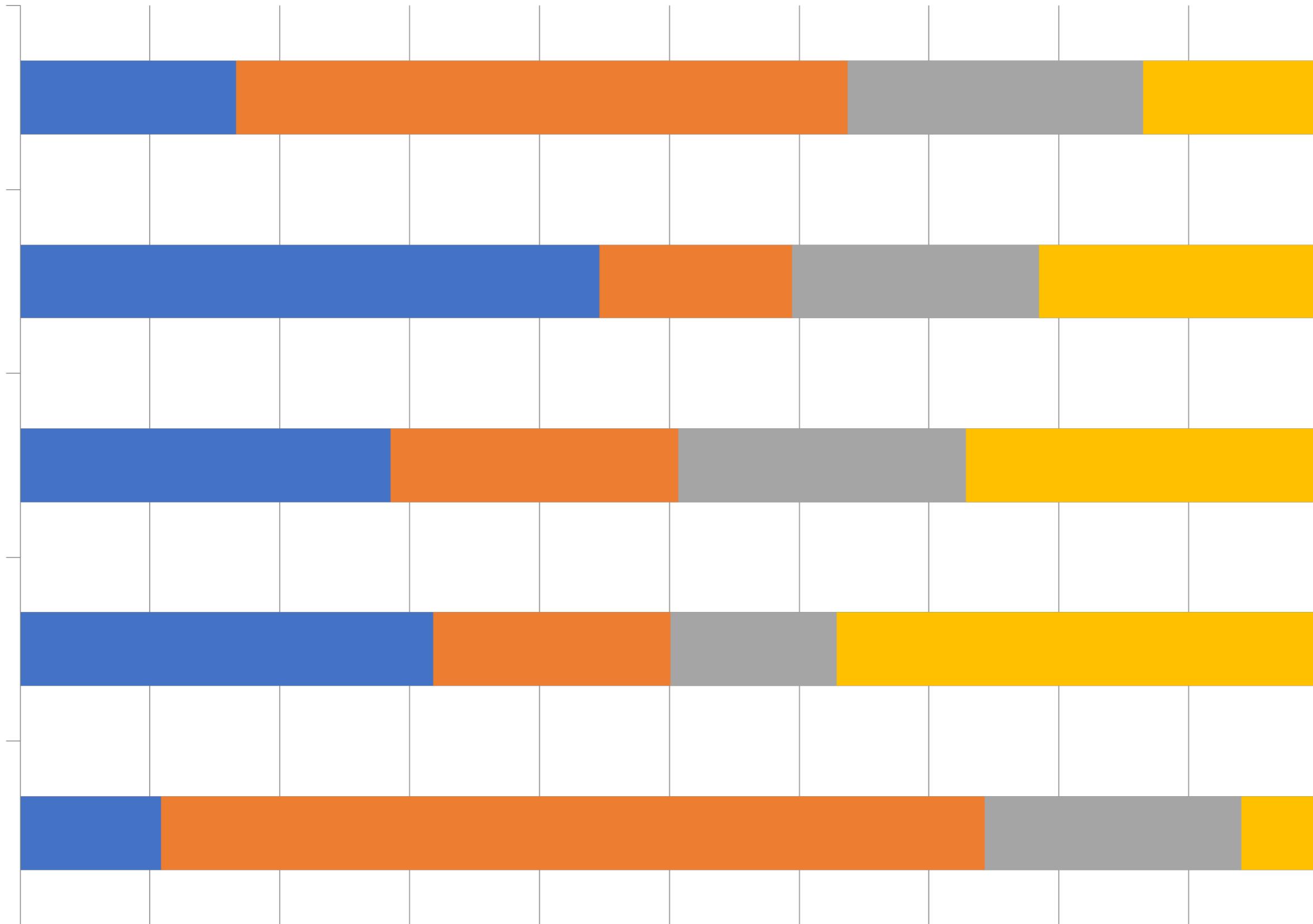
EUR

EAS

AMR

AFR

AAC
AGA
AGC
TGA
Other



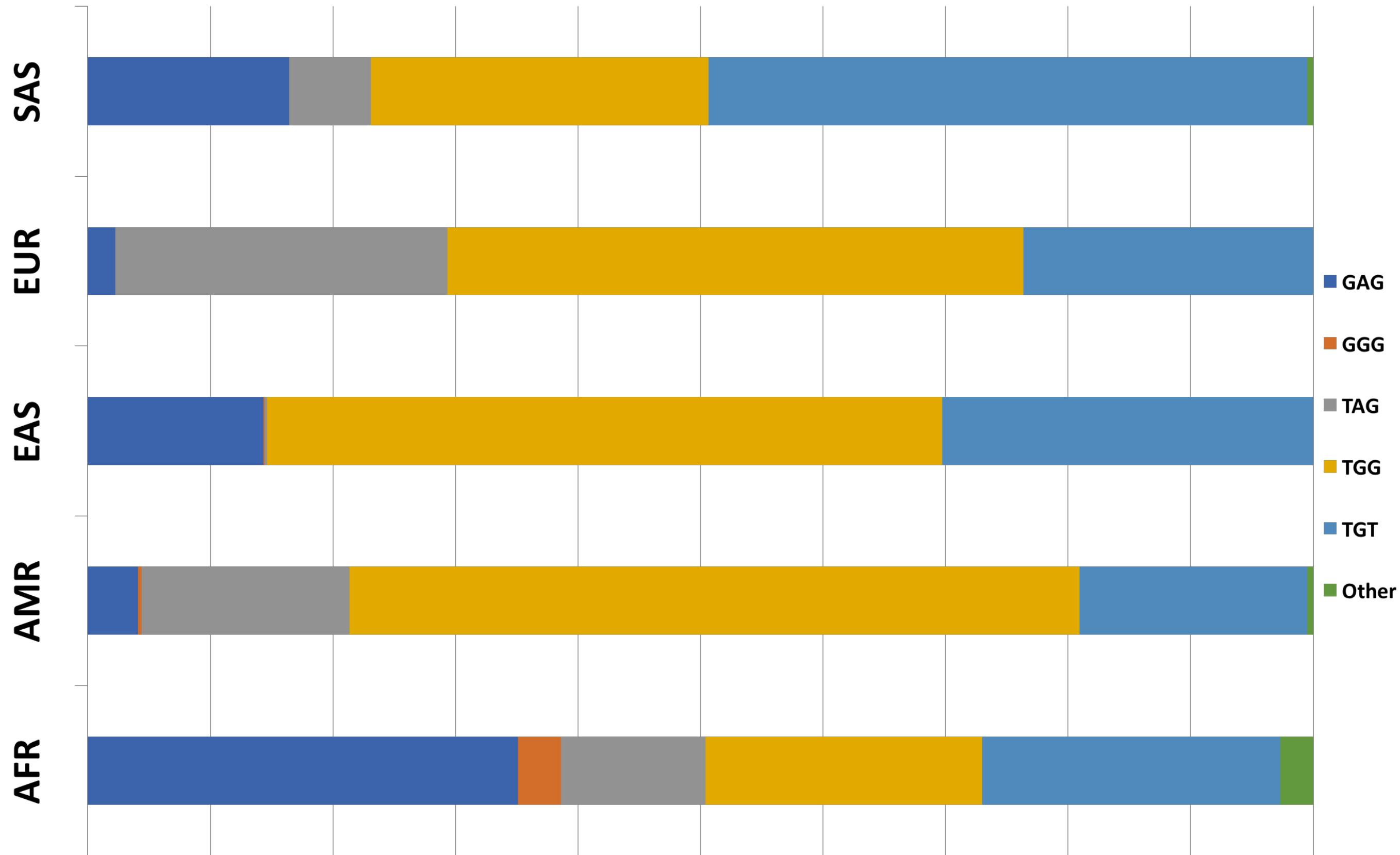
1pC

1:80702046-80702127

81

**rs4472717
rs1776320
rs2211434**

**GD
0.647**



1pD

1:106770076-106770110

34

**rs6702428
rs12031966
rs6687440**

**GD
0.655**

SAS

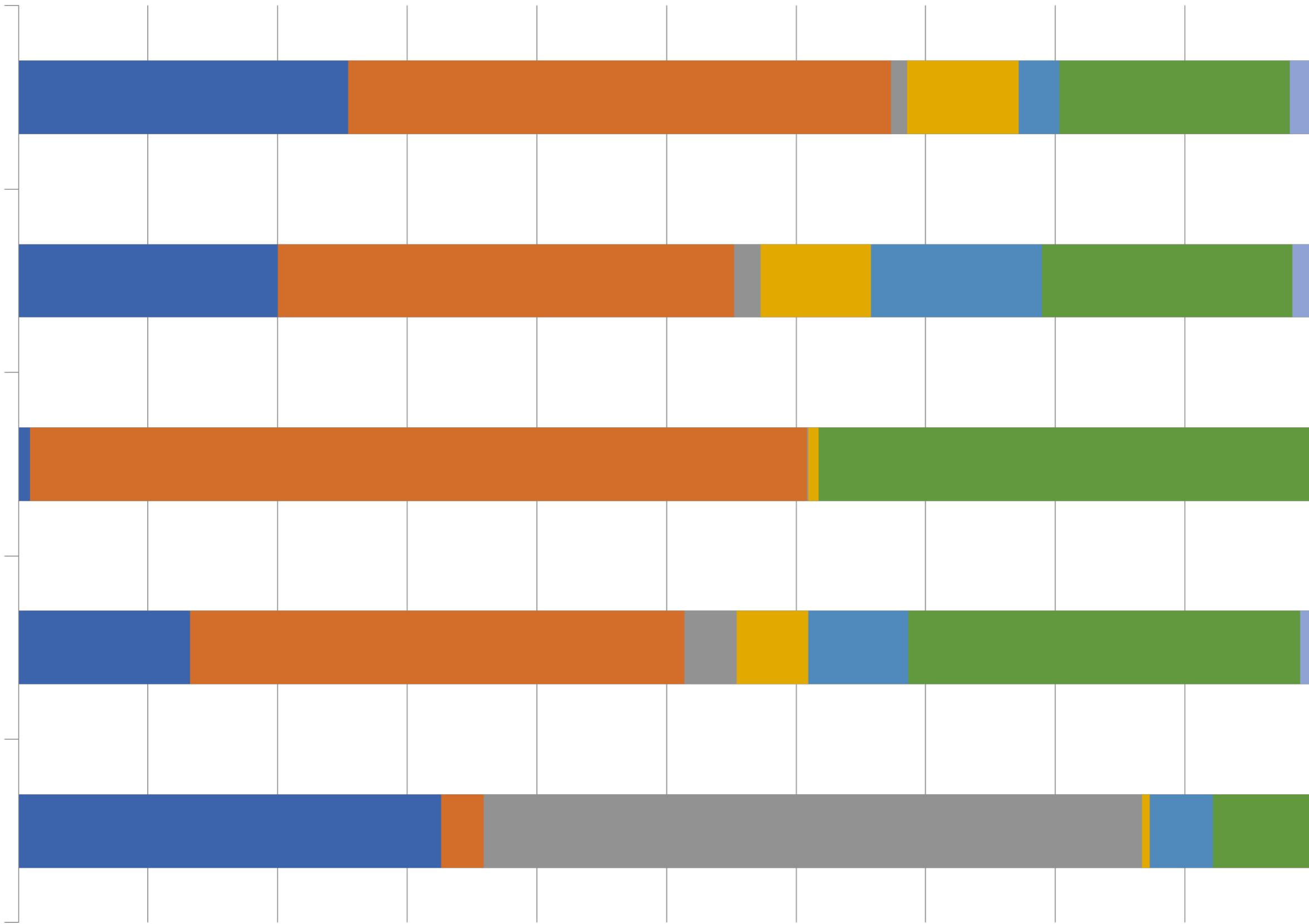
EUR

EAS

AMR

AFR

- █ CCA
- █ CCC
- █ CTA
- █ CTC
- █ TTA
- █ TTC
- █ Other



1qA

1:167126968-167126987

19

rs870880
rs870879

GD
0.596

SAS

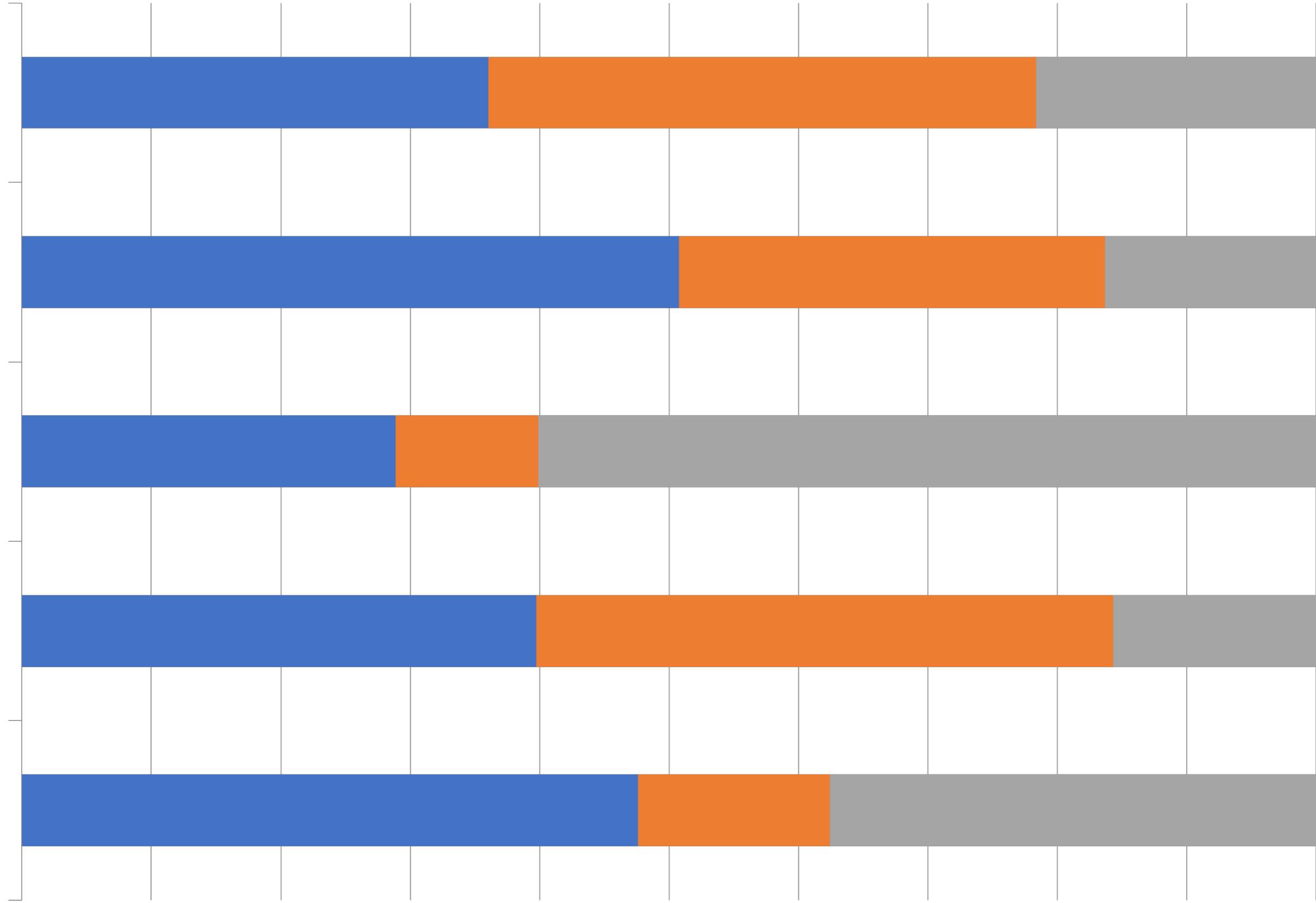
EUR

EAS

AMR

AFR

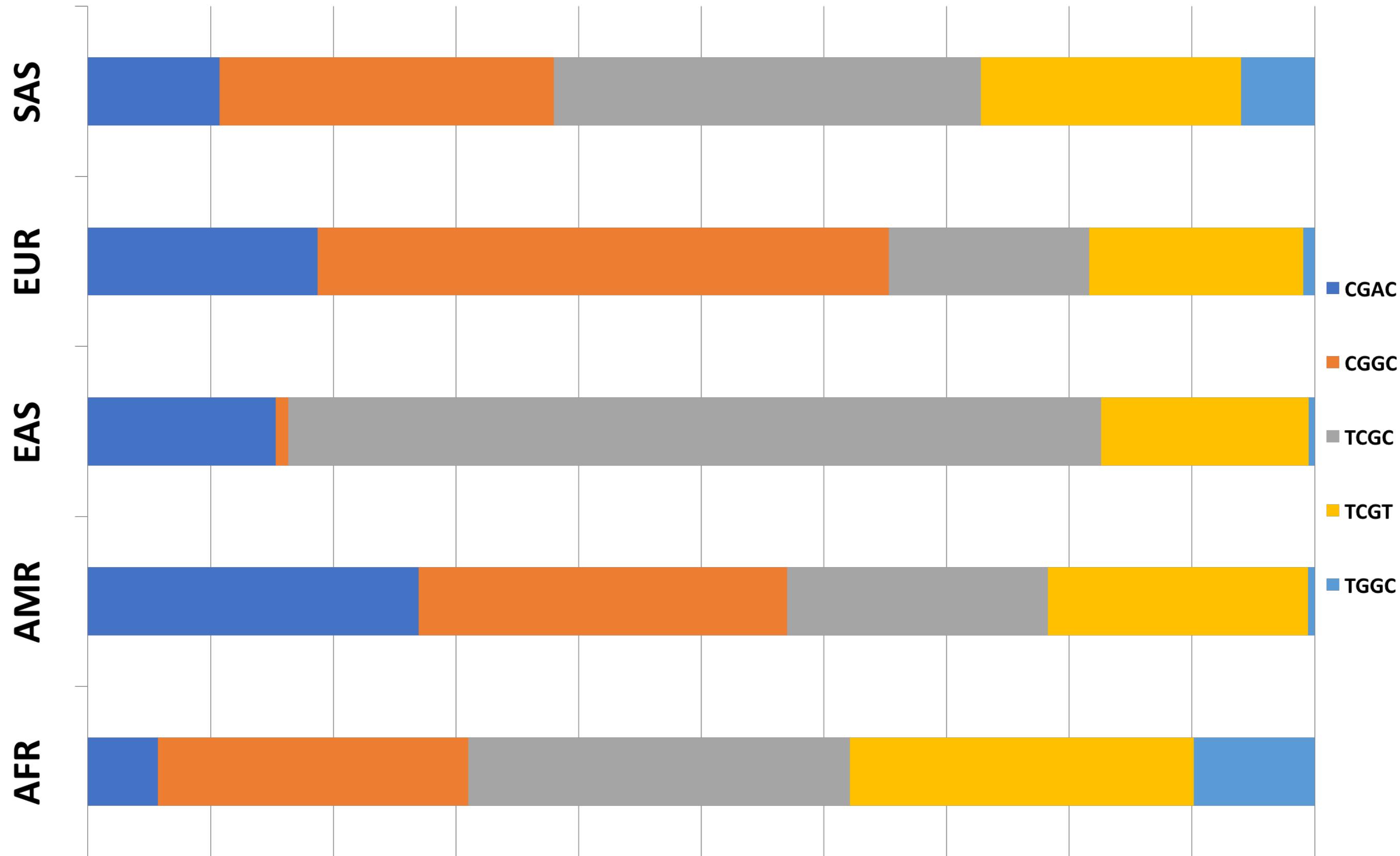
AG
GA
GG



1qB

1:187622410-187622480

70

rs4512600
rs10753020 rs4344286
rs34715816GD
0.681

1qC

1:201954768-201954807

39

rs6702229
rs117262471
rs6665072GD
0.734

SAS

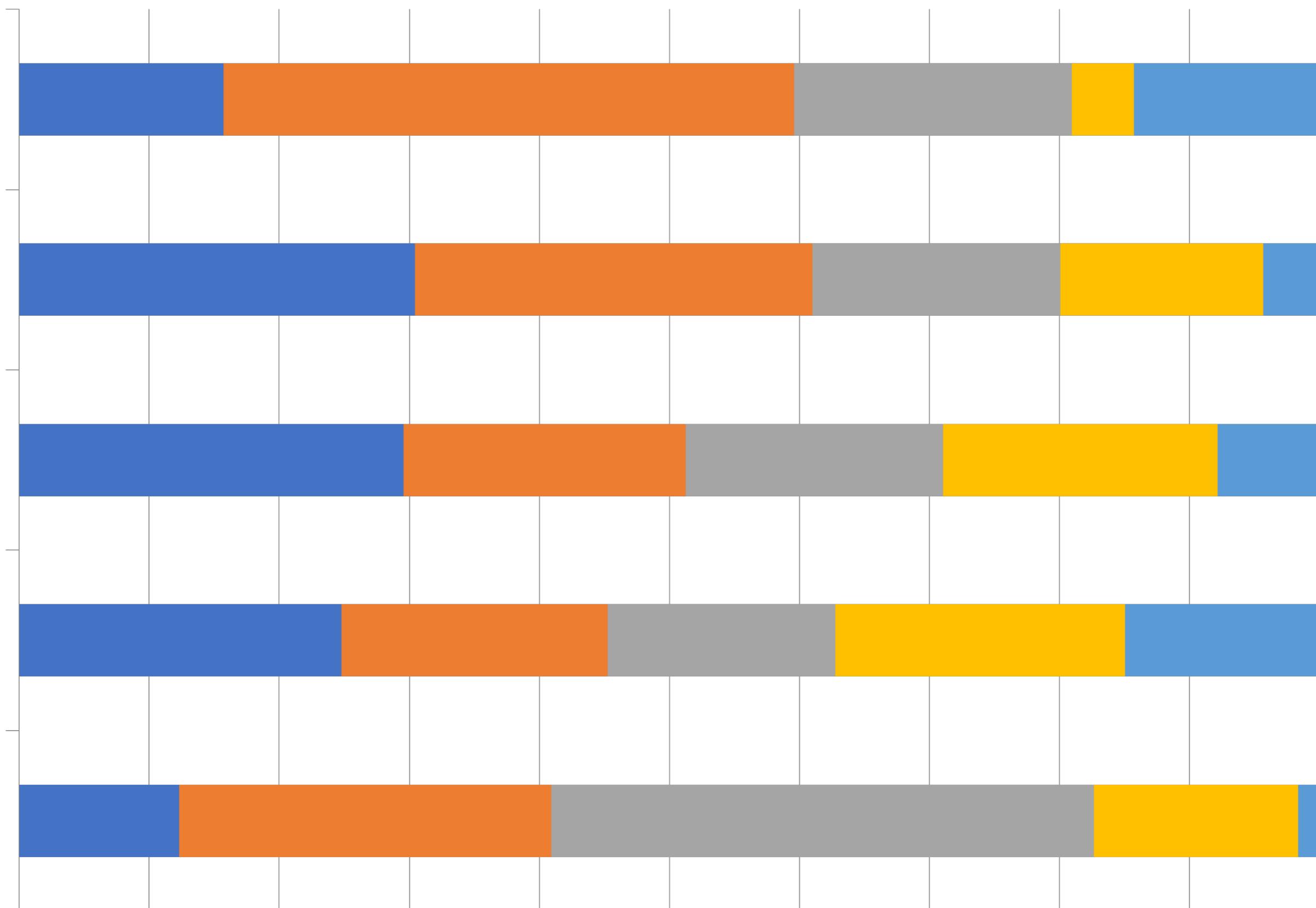
EUR

EAS

AMR

AFR

- █ AAC
- █ GAC
- █ TAA
- █ TAC
- █ TGA



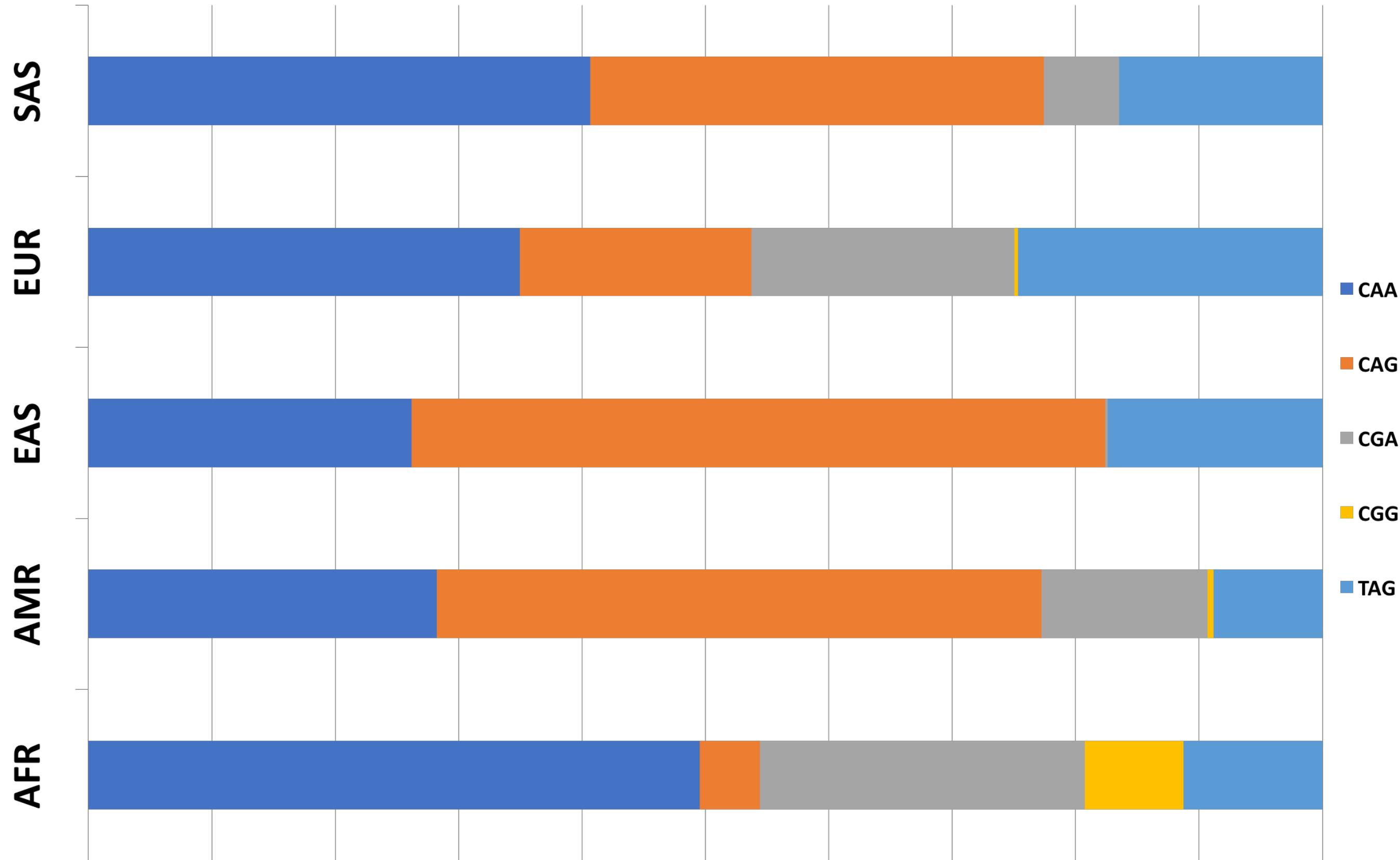
1qD

1:235766960-235766976

16

rs12141154
rs74148721
rs56274766

GD
0.650



2pA

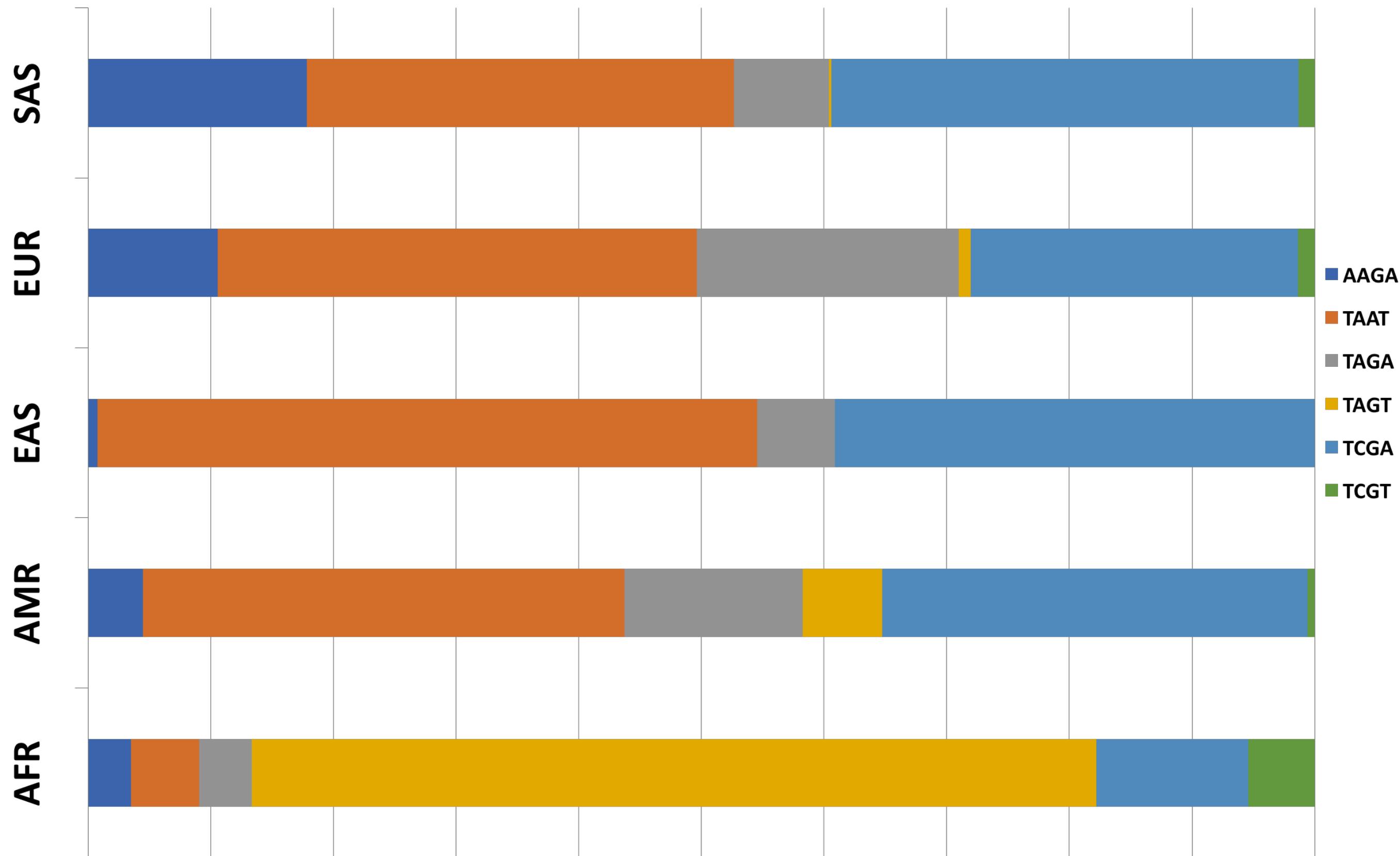
2:10951118-10951196

78

rs76708321
rs1686420

rs1686419
rs1686418

GD
0.615



2pB

2:45463469-45463537

68

rs1559479
rs1559480
rs1559481

GD
0.687

SAS

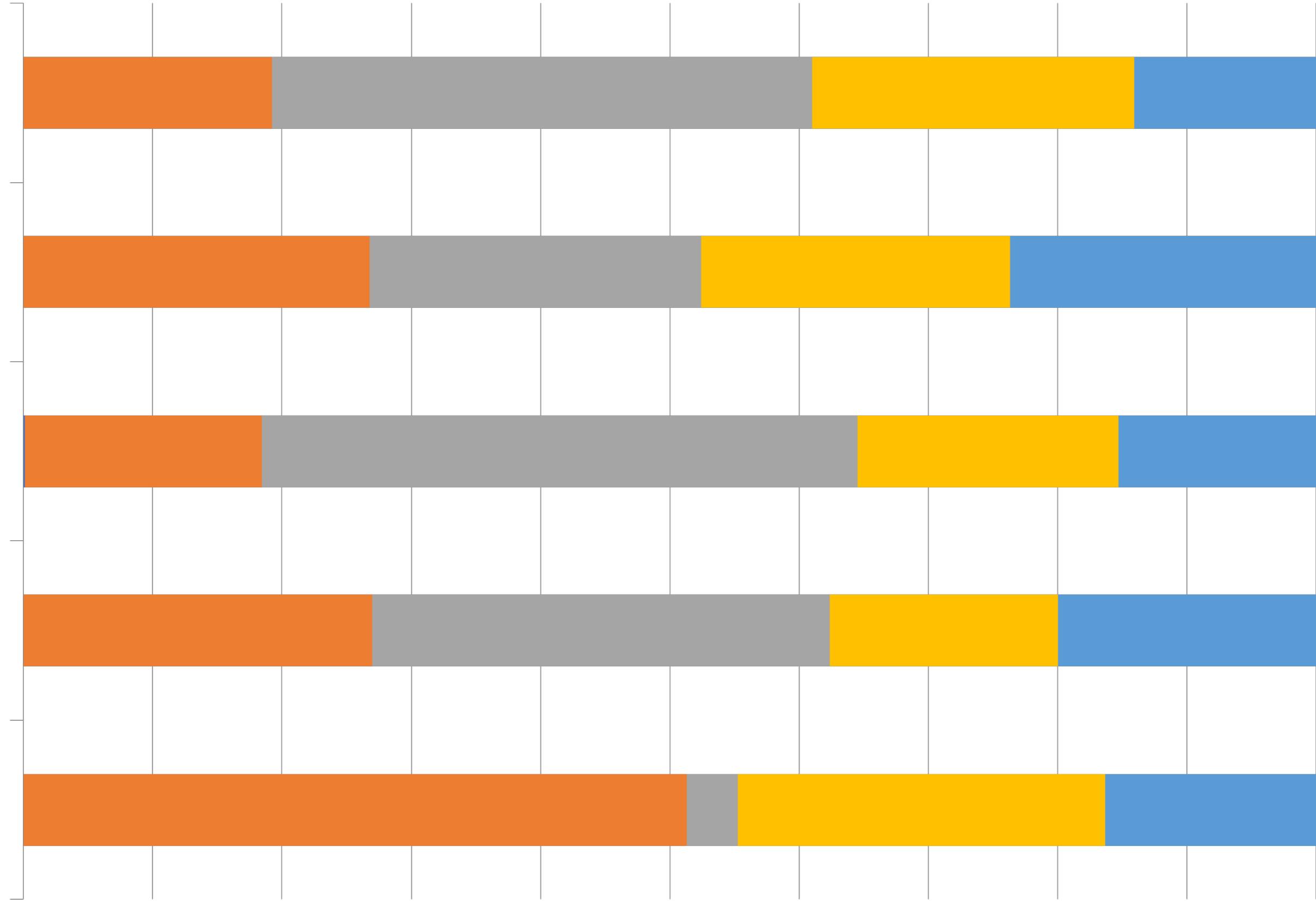
EUR

EAS

AMR

AFR

- AAA
- ACA
- GAA
- GCA
- GCC



2pC

2:79252950-79253029

79

rs369221
rs10171097

rs3816371
rs385742

GD
0.743

SAS

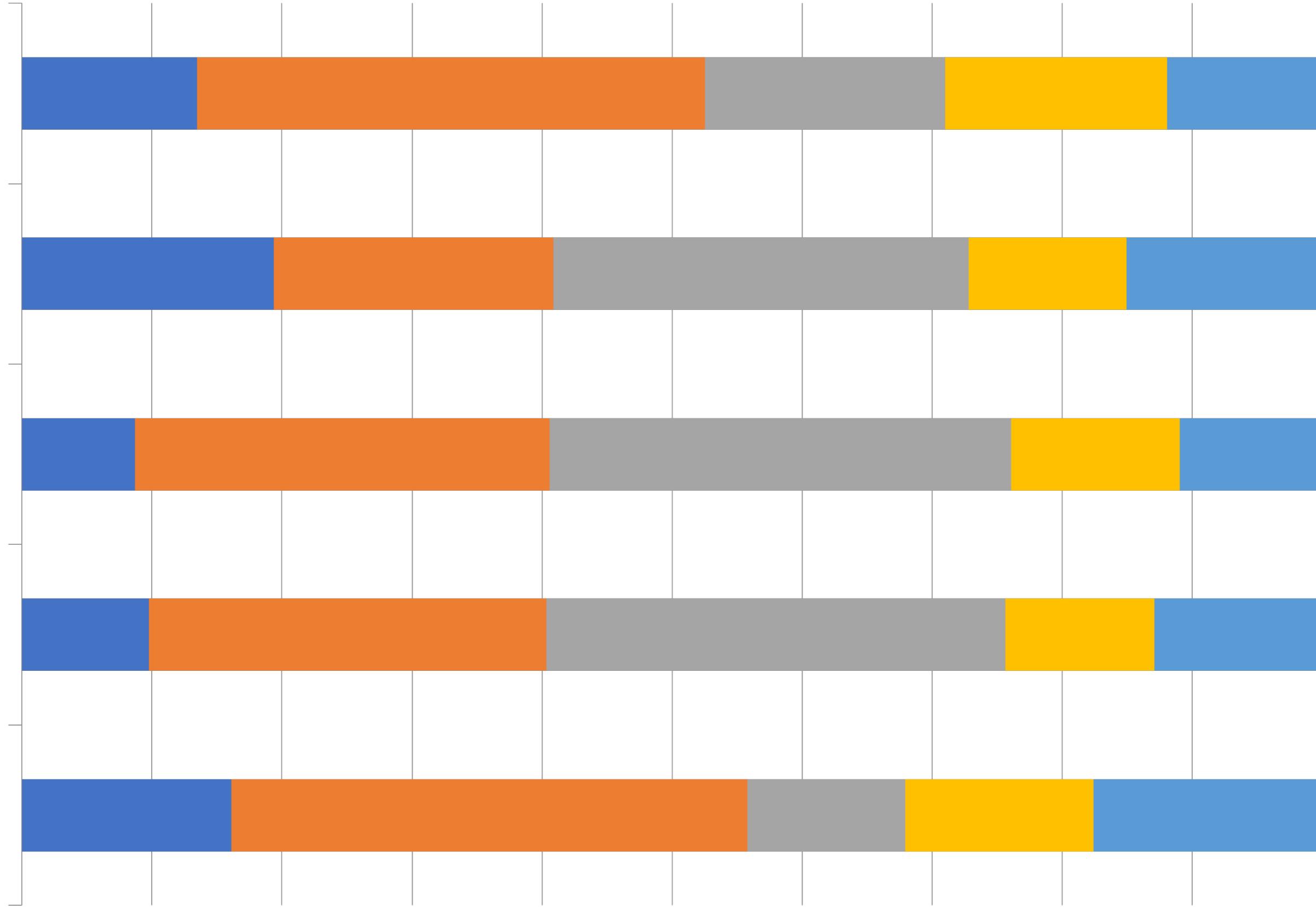
EUR

EAS

AMR

AFR

- ACGT
- GCGG
- GCGT
- GCTT
- GTGT



2qA

2:103092503-103092584

81

rs1468789
rs1468788

rs6543144
rs35181686

GD
0.687

SAS

EUR

EAS

AMR

AFR

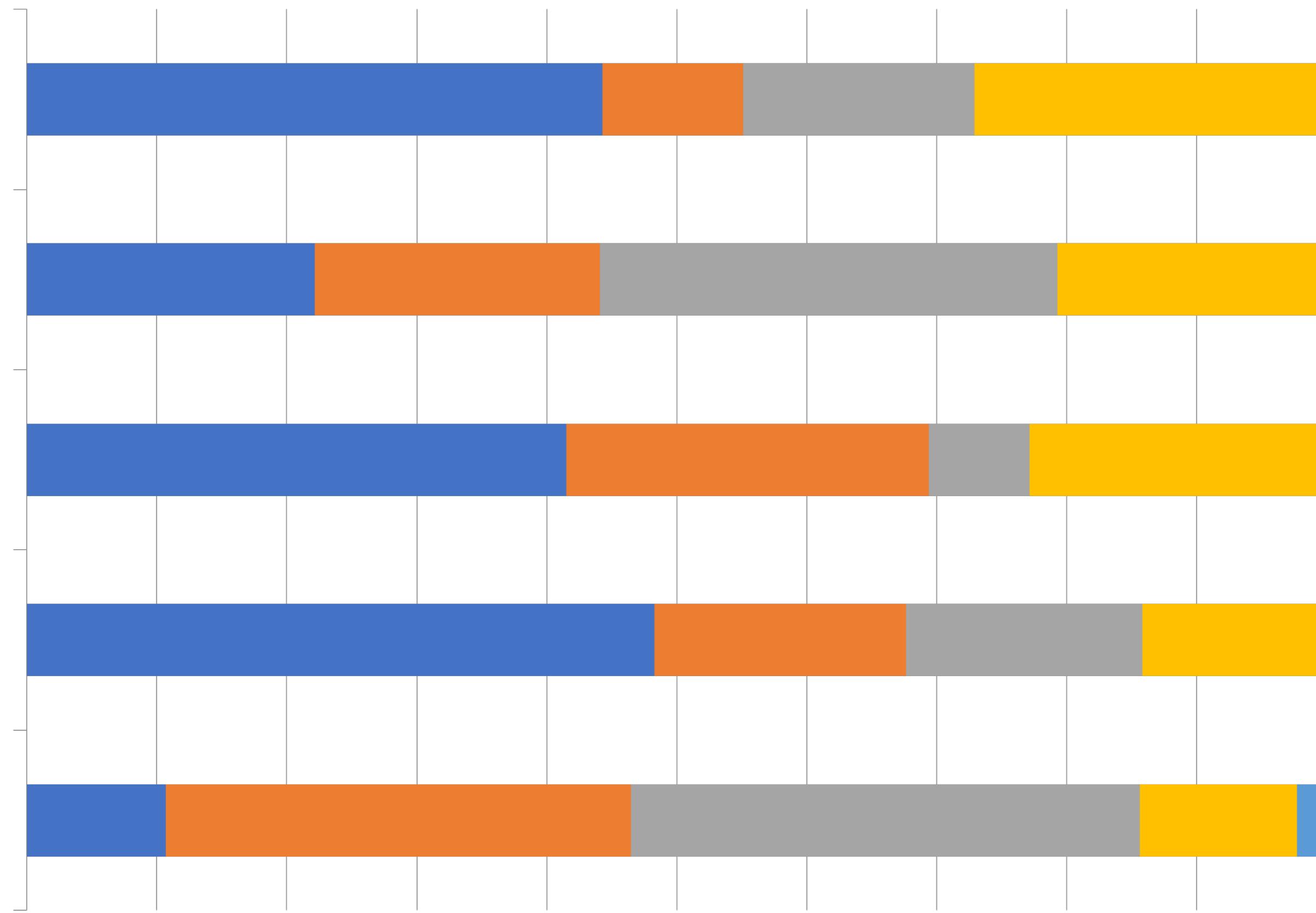
CCAC

CCAG

CTGC

TTAC

Other



2qB

2:138603324-138603357

33

rs1378757
rs4954545
rs960064

GD
0.647

SAS

EUR

EAS

AMR

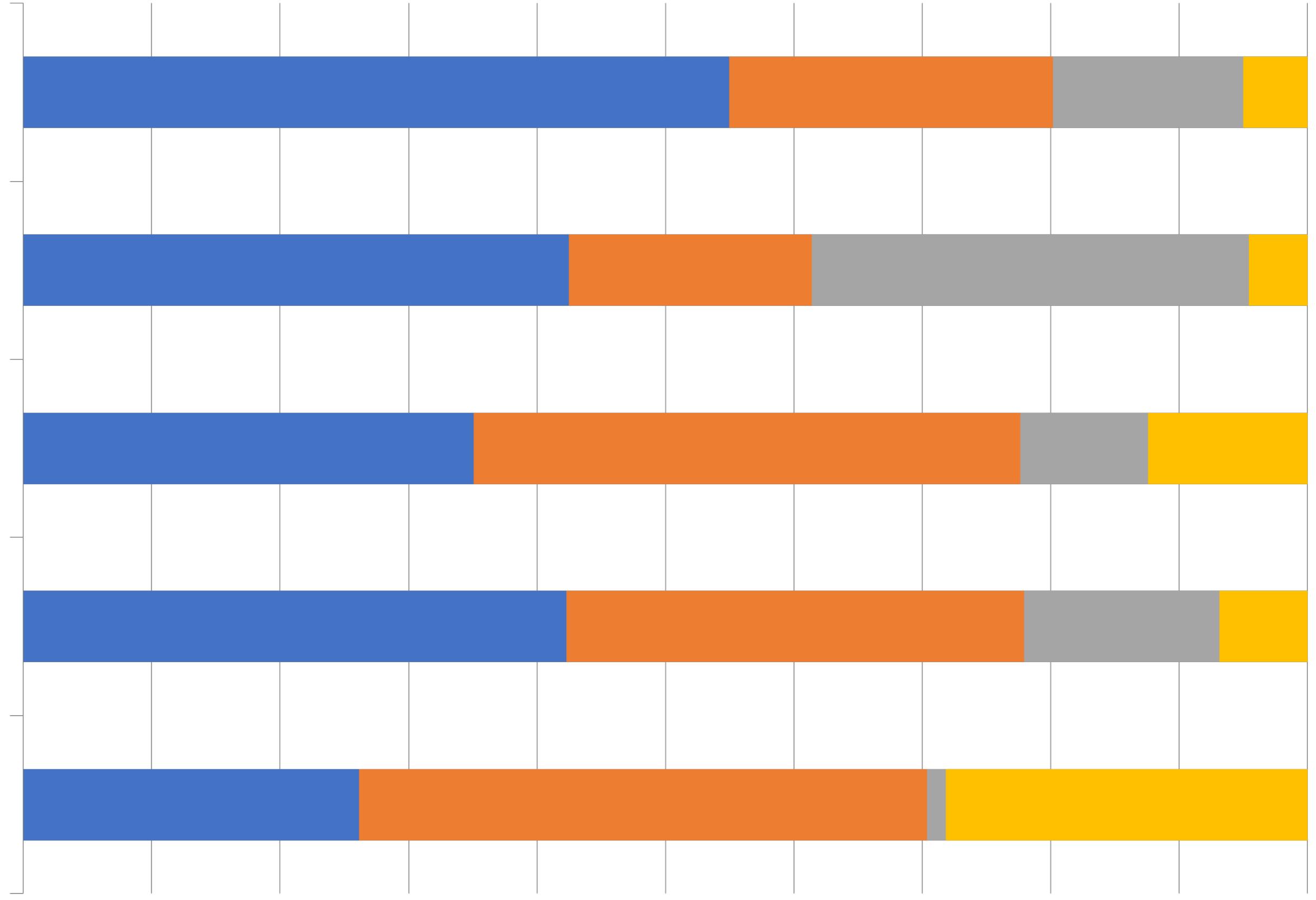
AFR

AAA

AAG

ATA

GAG



2qC

2:169017369-169017436

67

rs16854955
rs10930308
rs77278474

GD
0.699

SAS

EUR

EAS

AMR

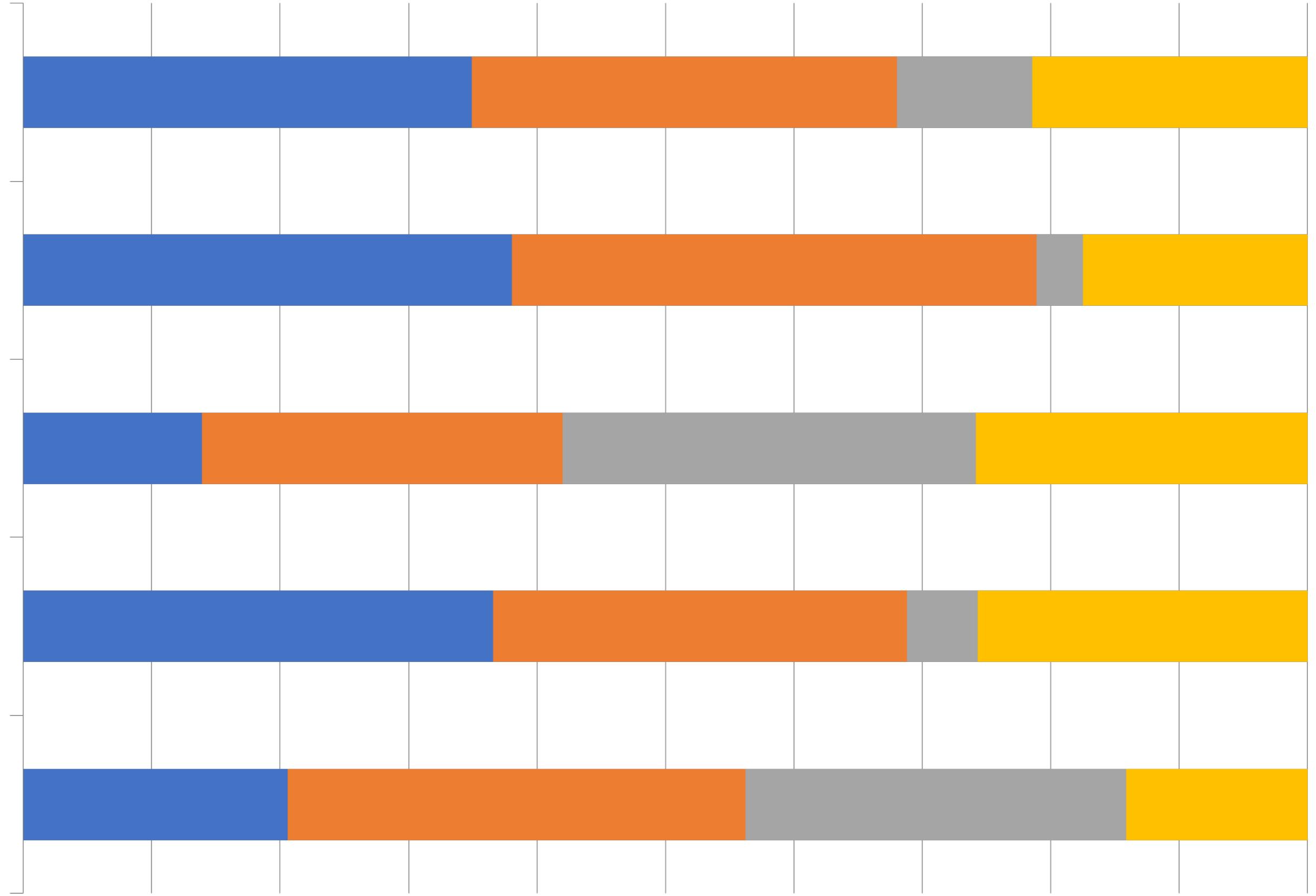
AFR

ACA

ACG

AGG

TGG



2qD

2:206822620-206822640



rs10179987
rs10179825
rs12615620

GD
0.683

SAS



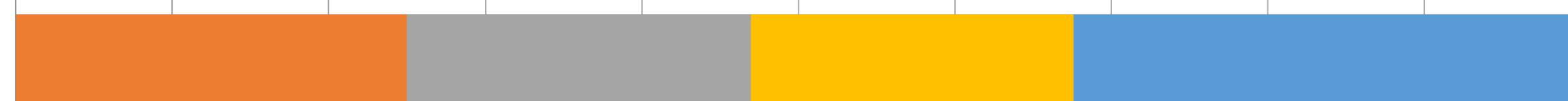
EUR



EAS



AMR



AFR



■ ACG
■ AGG
■ GCA
■ GCG
■ GGG

2qE

2:241541892-241541915

23

rs10933619
rs4676418
rs4676417

GD
0.659

SAS

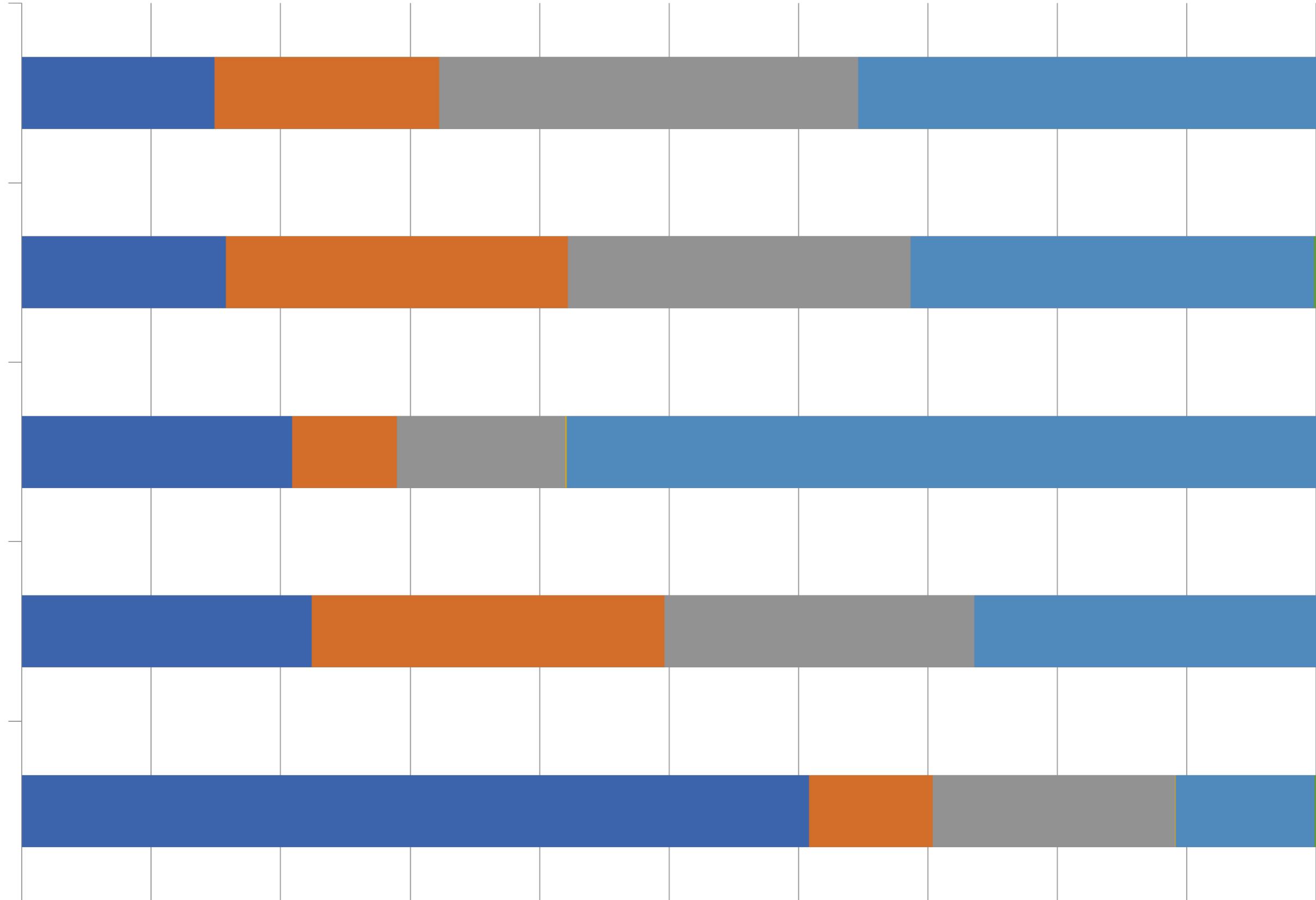
EUR

EAS

AMR

AFR

- CAG
- CAT
- CGG
- CGT
- GAG
- GGG



3pA

3:5534417-5534485

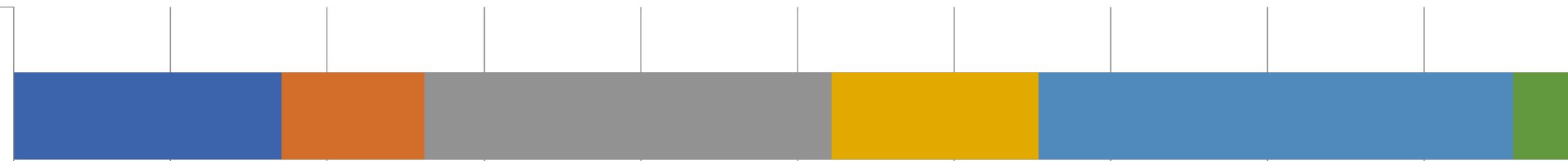
68

rs11710159
rs9853649

rs9849667
rs1991577

GD
0.724

SAS



EUR



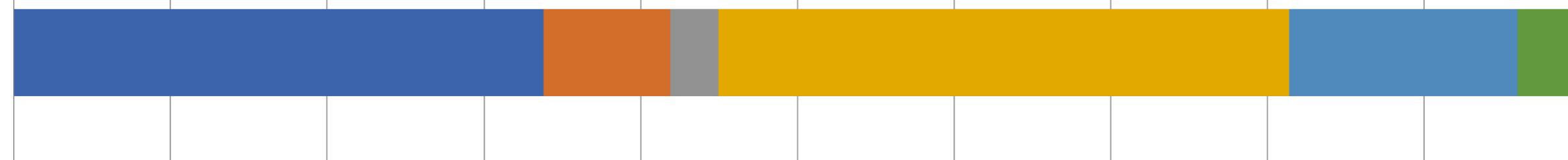
EAS



AMR



AFR



- ACGT
- ATGT
- CCGT
- CTAC
- CTAT
- CTGC
- Other

3pB

3:42924625-42924691

66

rs11129981
rs11129982
rs75361533

rs11129983
rs1896565

GD
0.691

SAS

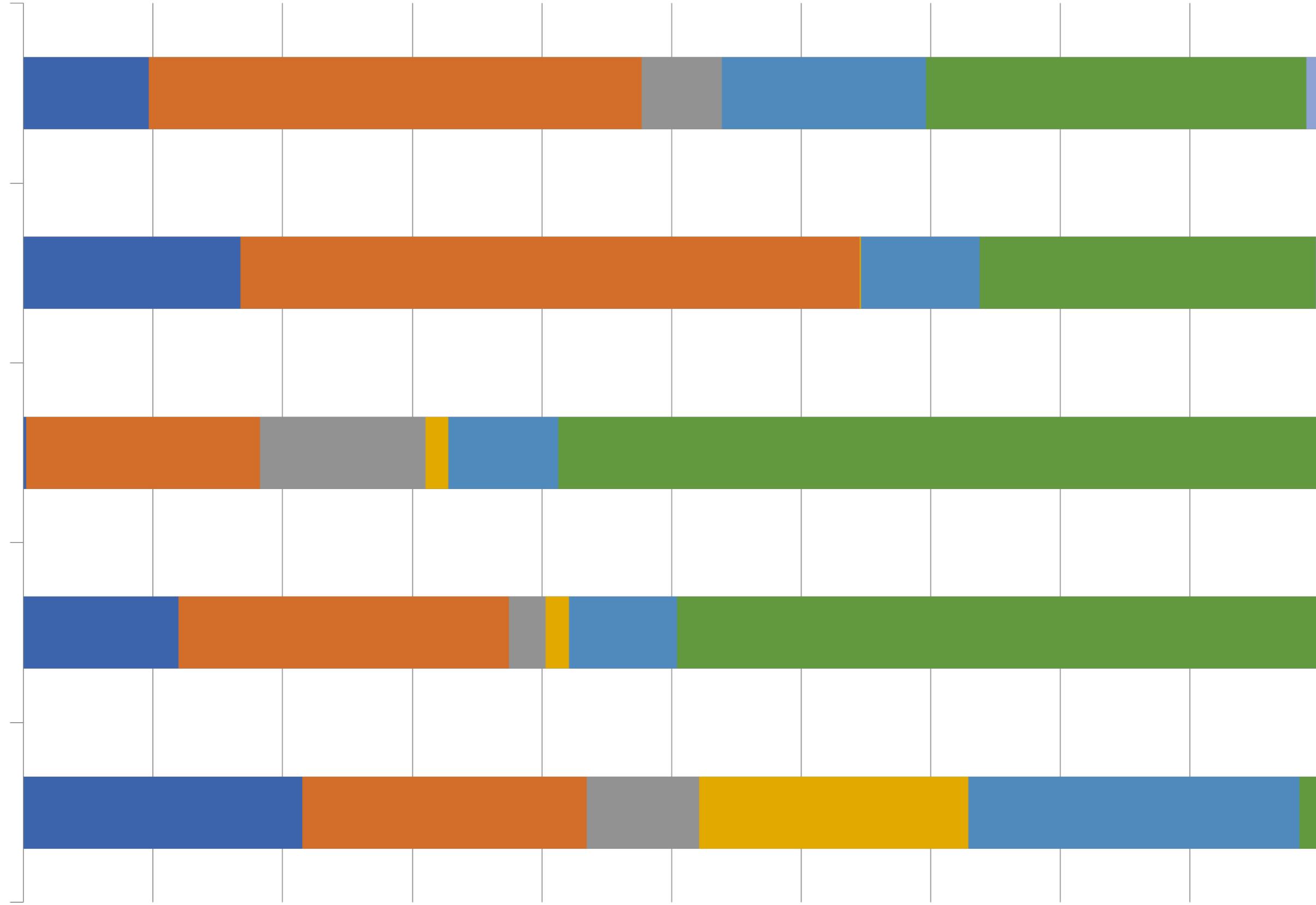
EUR

EAS

AMR

AFR

- AACCA
- AACCG
- AATCA
- AGCCA
- CGCCA
- CGCGA
- Other



3pC

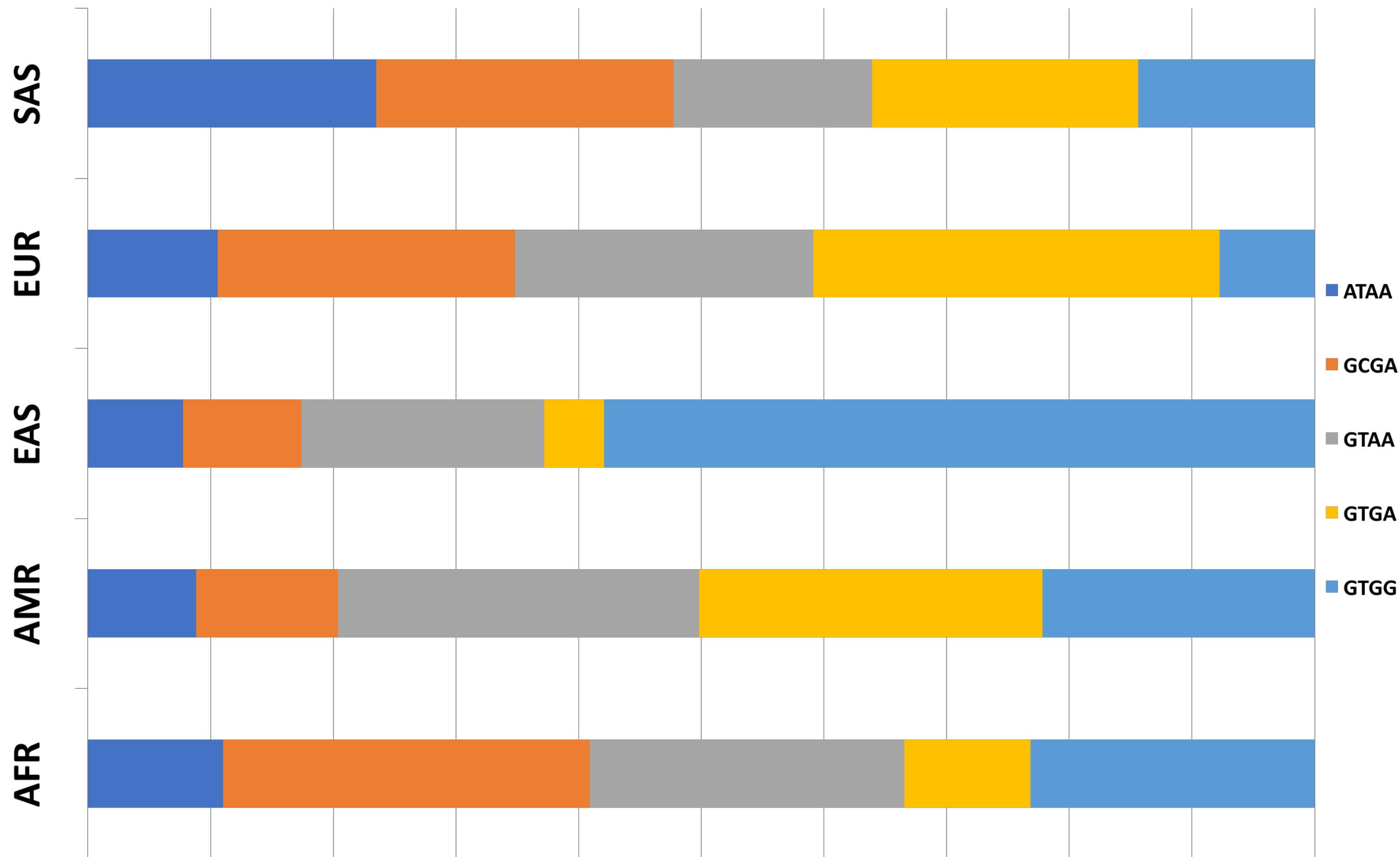
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92

rs72887867
rs9870526

rs1557913
rs1557912

GD
0.732



3qA

3:97939948-97940024

76

rs16839424 rs62267188
rs16839427 rs2047390

GD
0.635

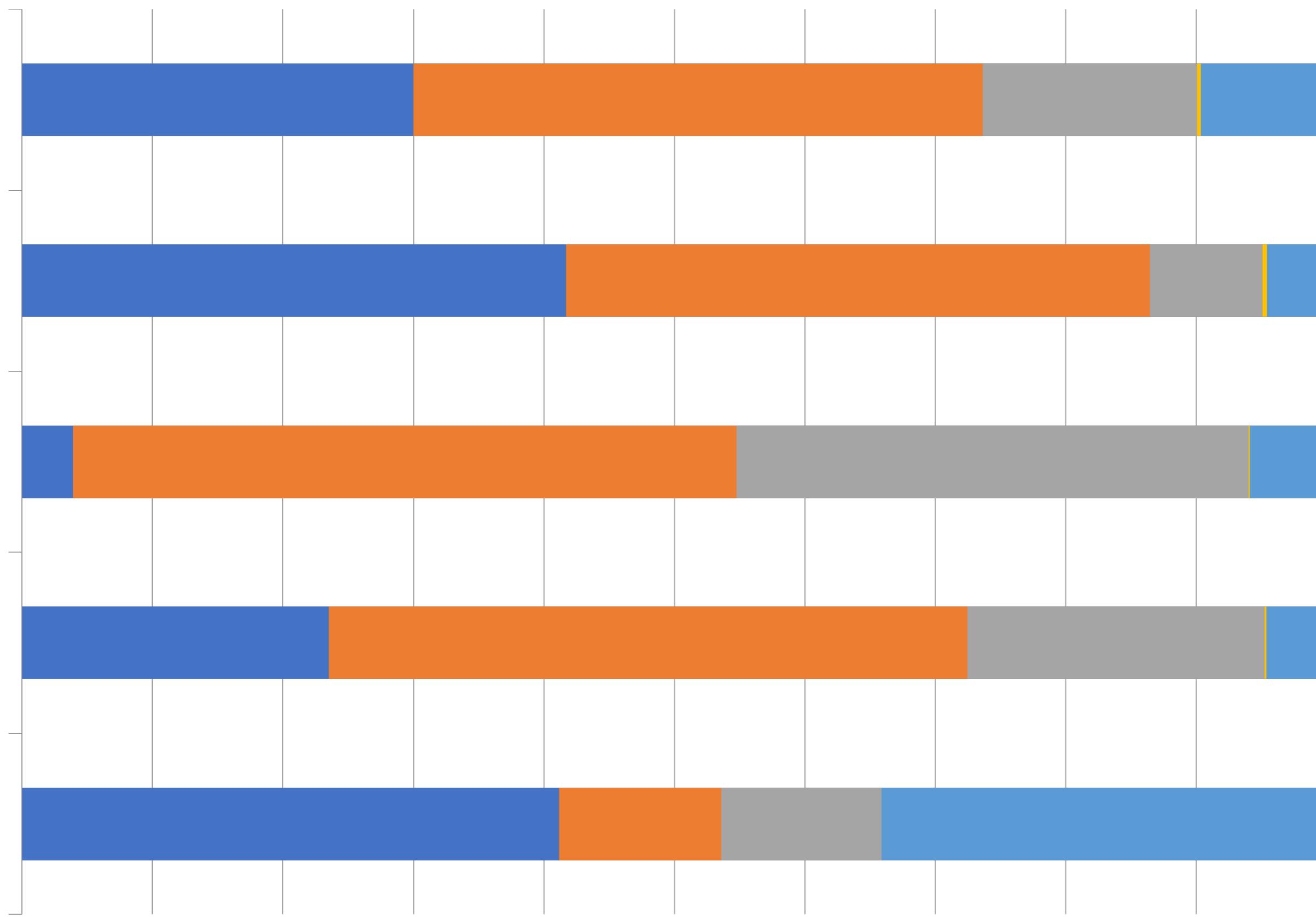
SAS

EUR

EAS

AMR

AFR



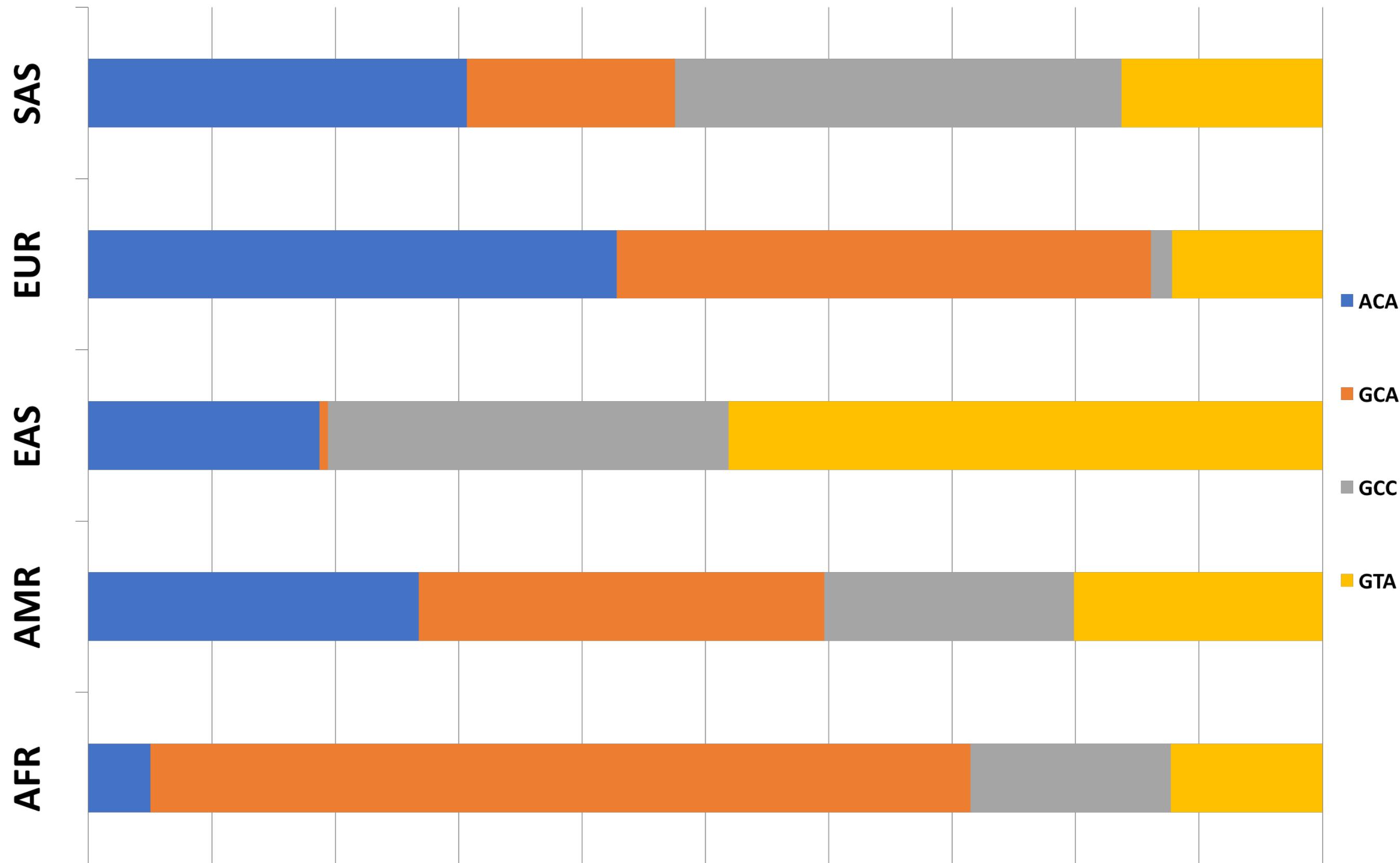
3qB

3:133892833-133892872

39

rs35775034
rs6776502
rs10804627

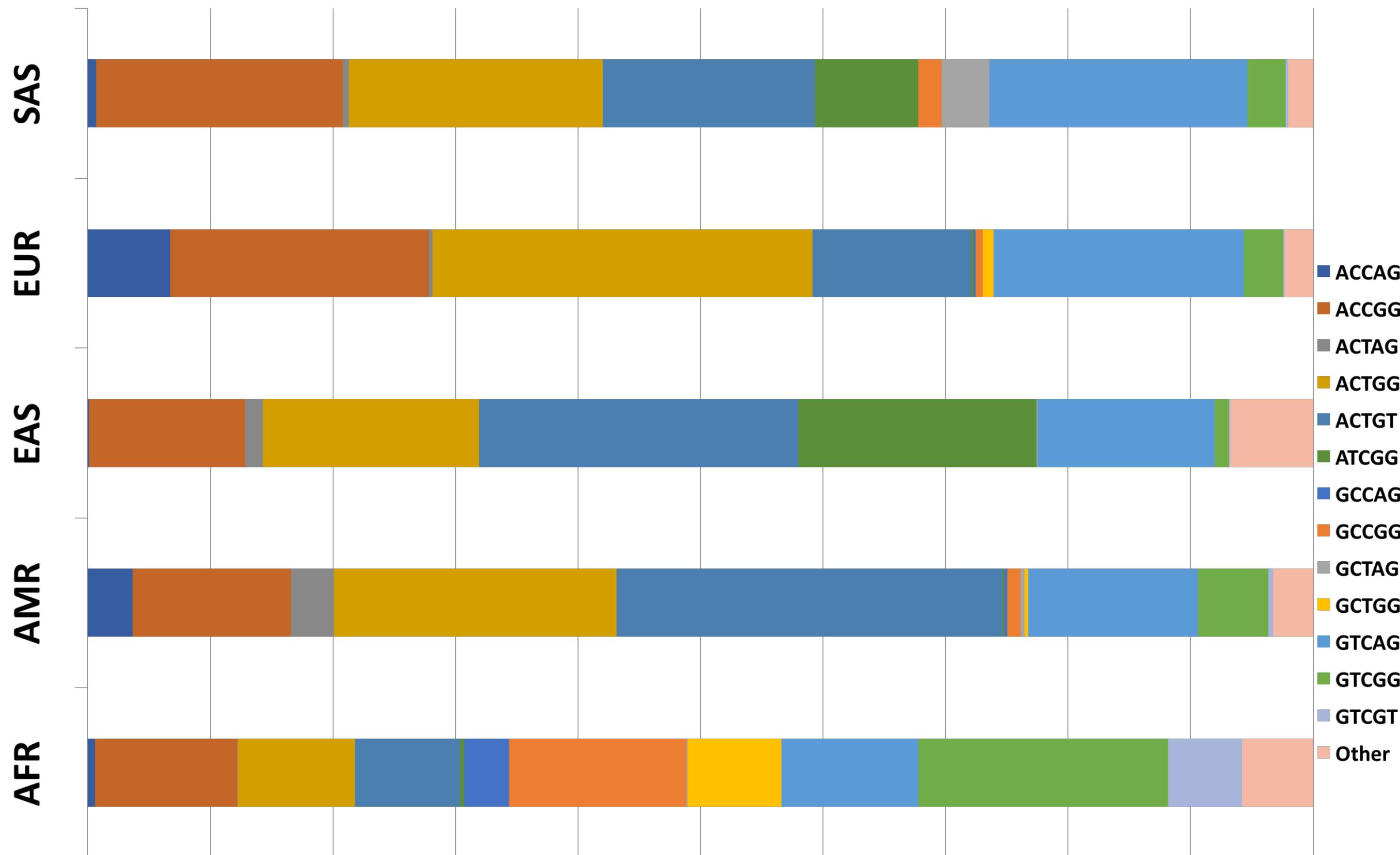
GD
0.622



3qC

3:196379897-196379993

96

rs6583335
rs9848767
rs843520rs9833841
rs965140GD
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4pA

4:8122461-8122537

76

rs13152013
rs11936149

rs10938693
rs12498797

GD
0.786

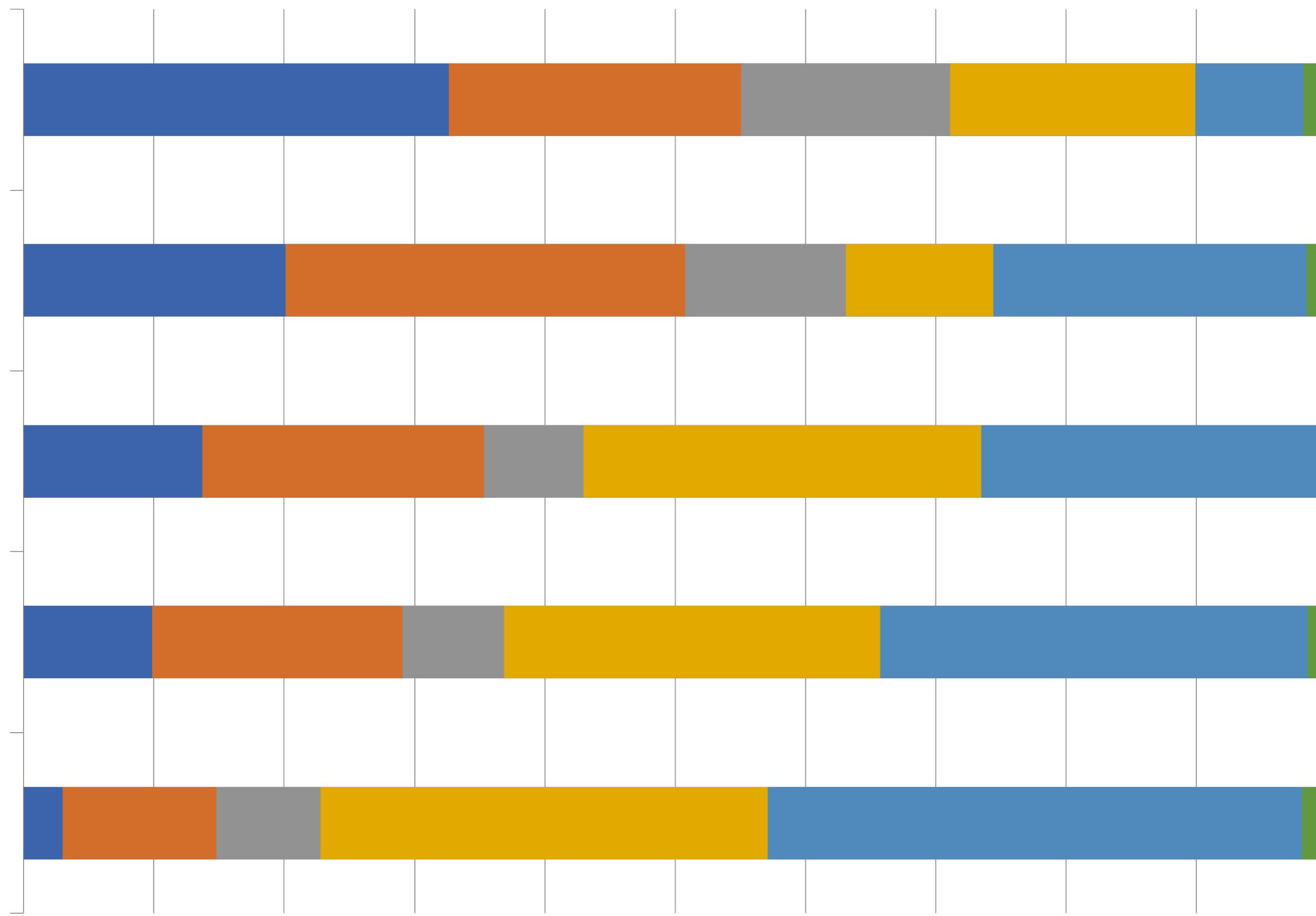
SAS

EUR

EAS

AMR

AFR



4pB

4:36639760-36639801

41

rs16992511
rs16992516
rs10015011

GD
0.675

SAS

EUR

EAS

AMR

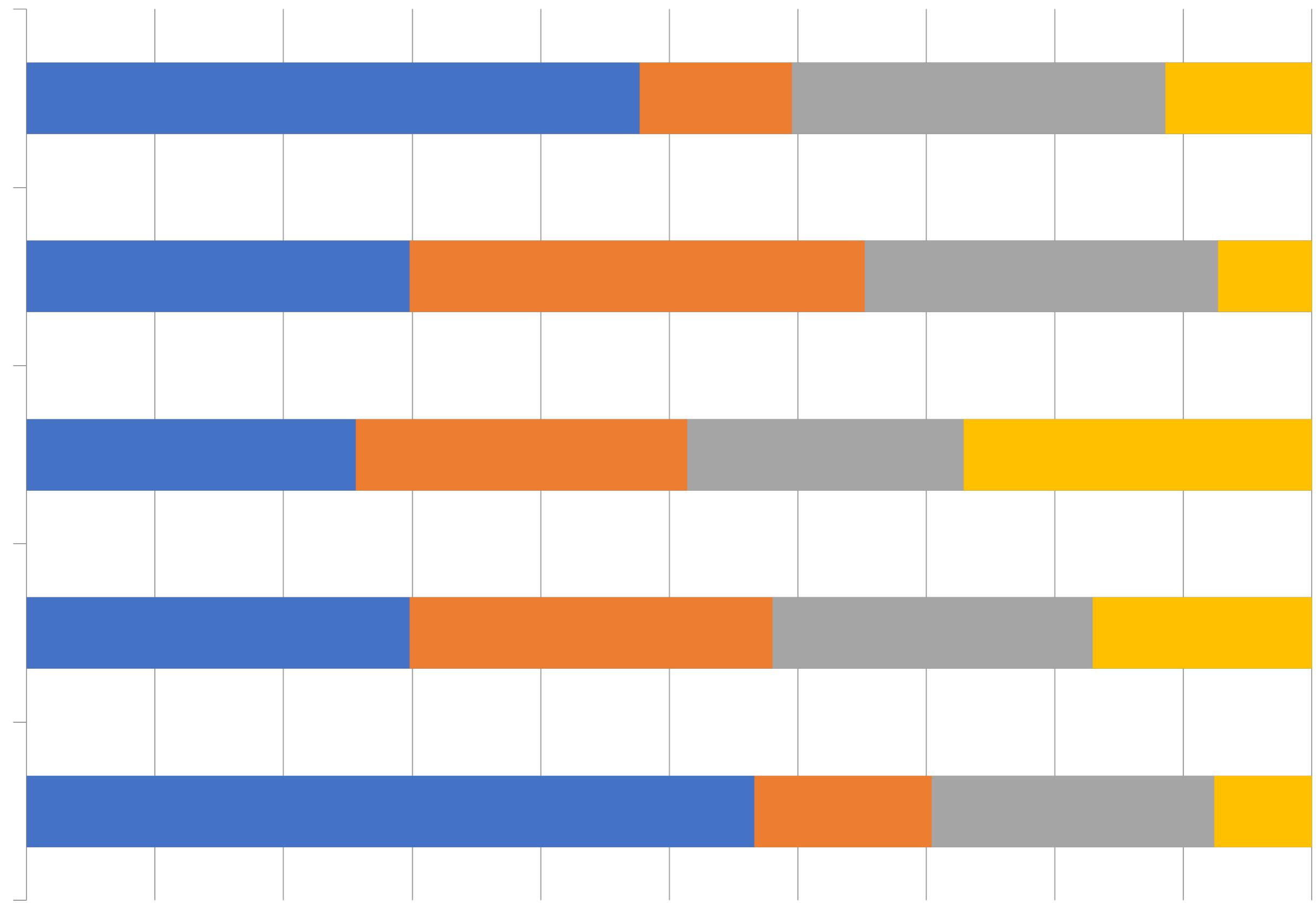
AFR

CAC

CAG

CGC

TGC



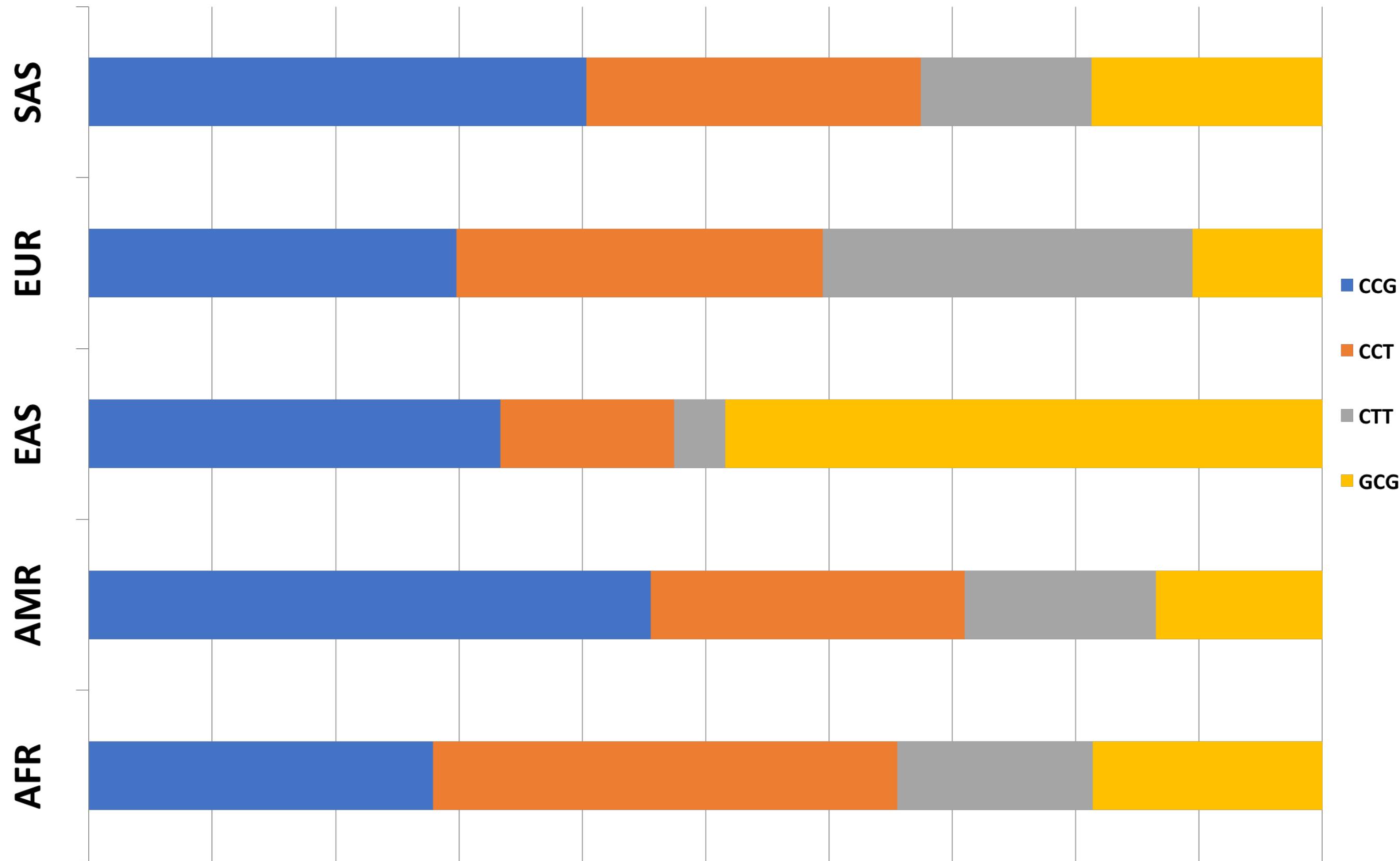
4qA

4:59436074-59436101

27

rs13115268
rs9996466
rs2642174

GD
0.691



4qB

4:100042236-100042262

23

rs60652198
rs6532796
rs3828541

GD
0.589

SAS

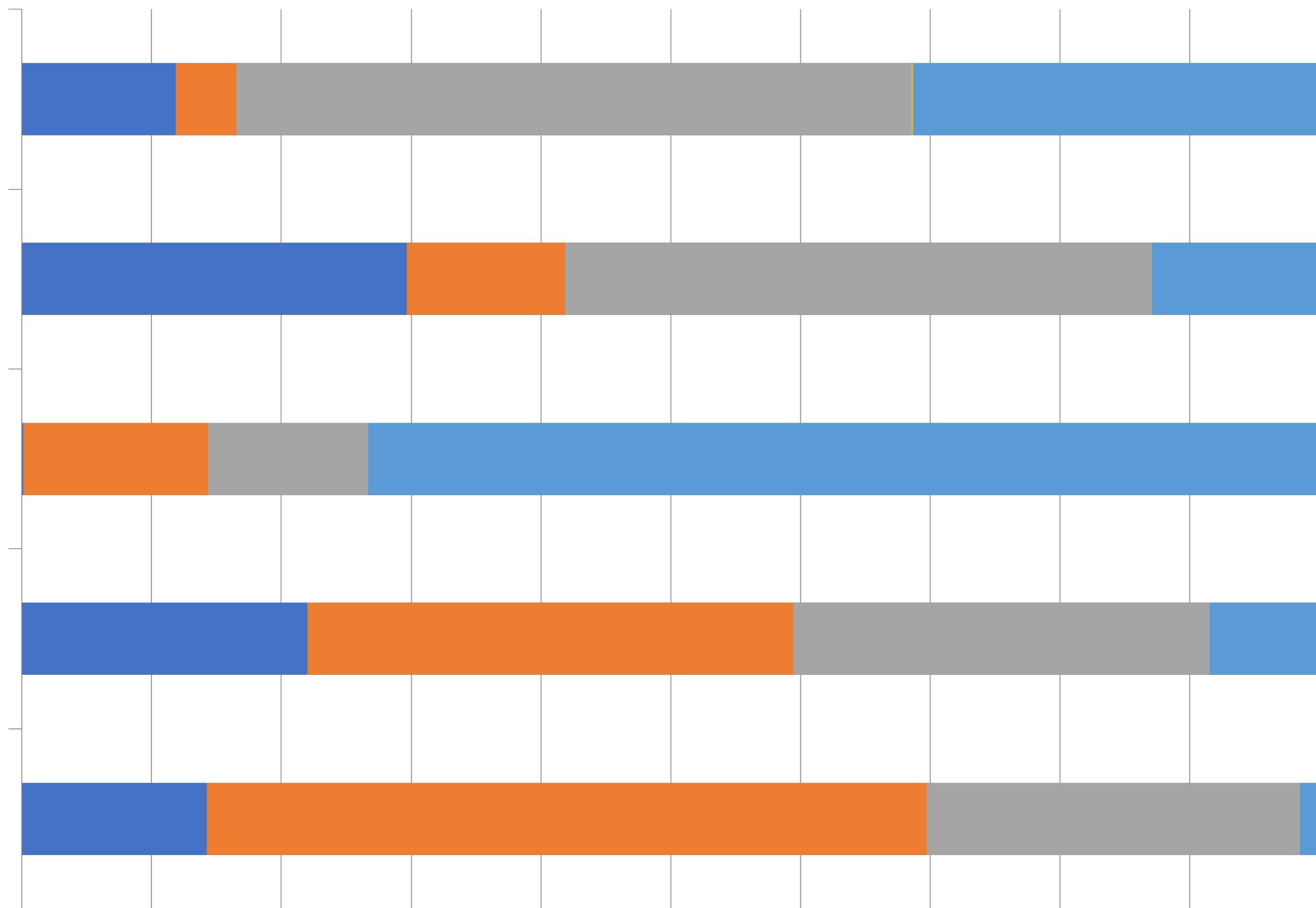
EUR

EAS

AMR

AFR

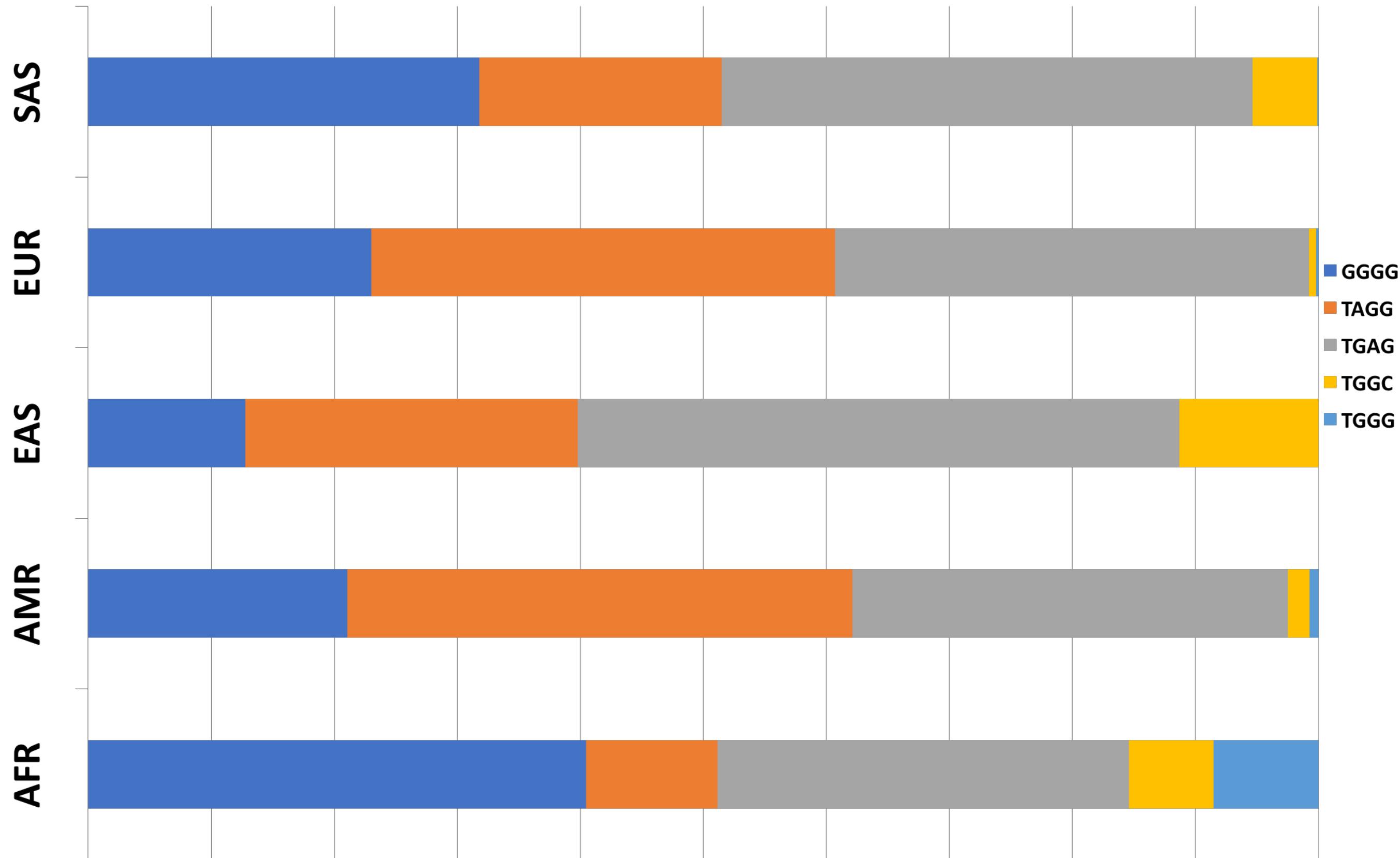
- CAA
- CGA
- CGG
- TAA
- TGA



4qC

4:155794591-155794641

50

rs6813070
rs9684324 rs10028045
rs72617471GD
0.667

4qD

4:182795889-182795939

50

rs34521178 rs4450974
rs4533811 rs61132367

GD
0.698

SAS

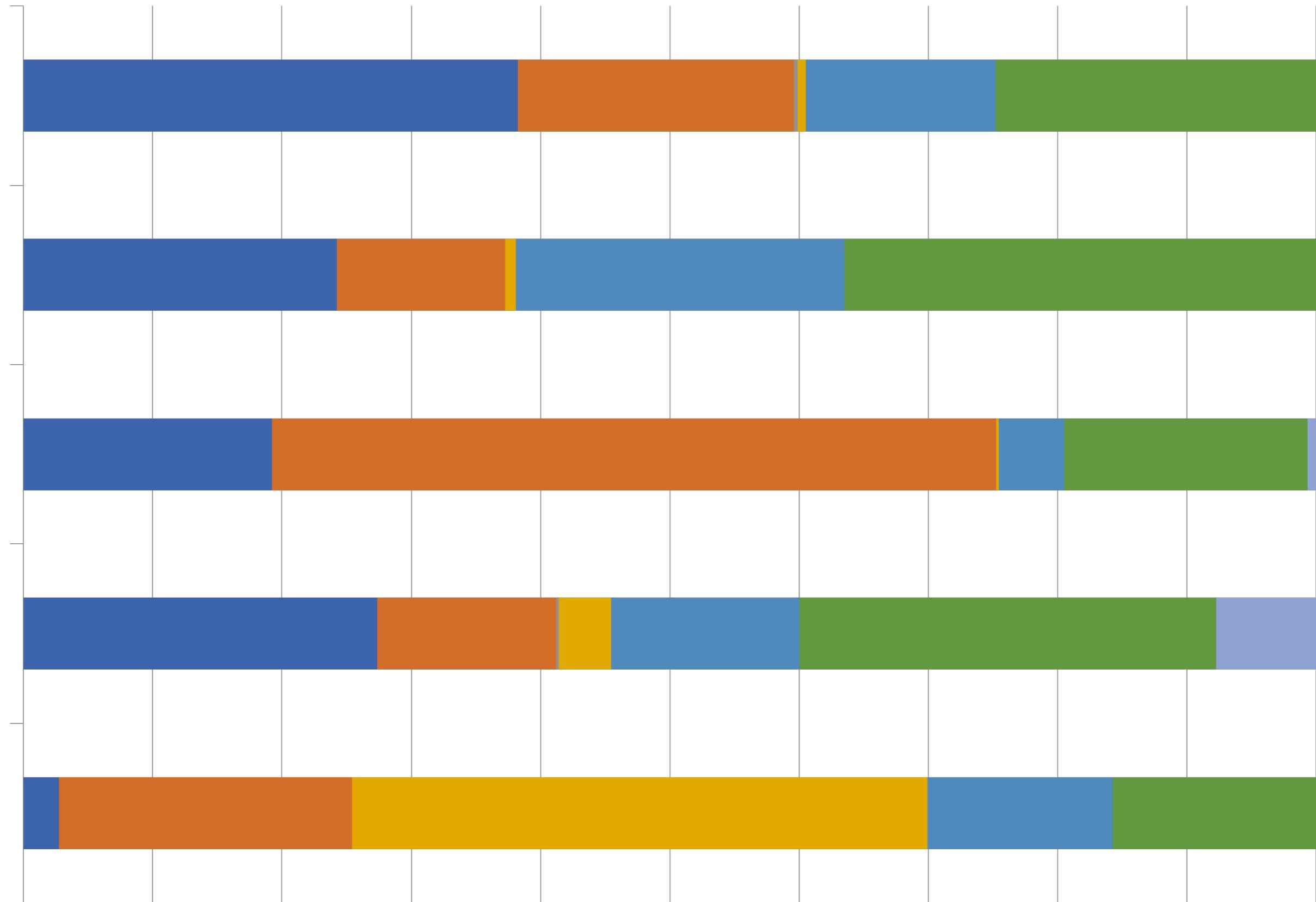
EUR

EAS

AMR

AFR

- AACC
- AACT
- AGCC
- GACC
- GGCC
- GGTC
- GGTT



5pA

5:11046129-11046193

64

rs2973486
rs1393134rs1697905
rs2907091GD
0.743

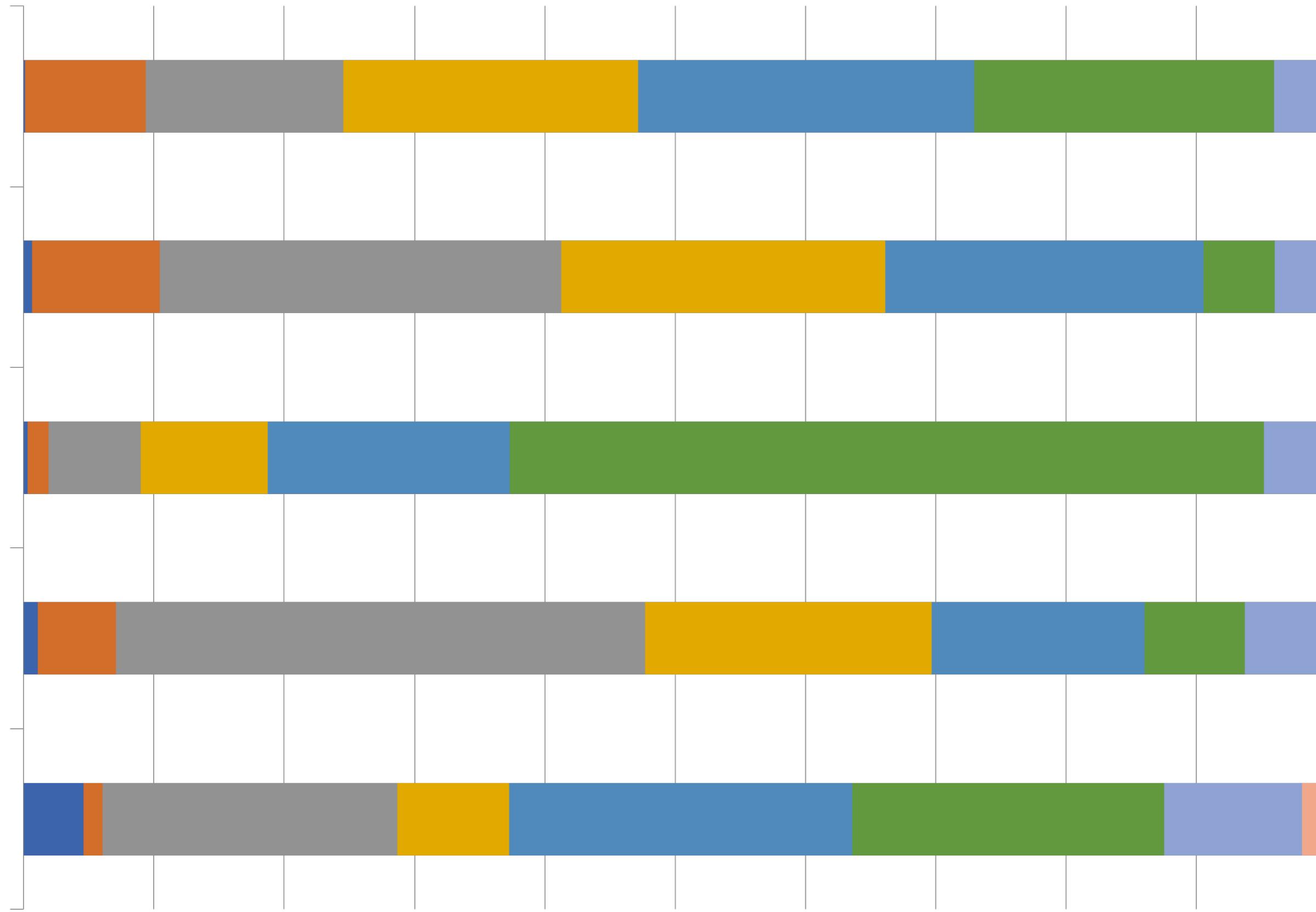
SAS

EUR

EAS

AMR

AFR



5pB

5:44554781-44554797

16

rs6897963
rs35656601

GD
0.584

SAS

EUR

EAS

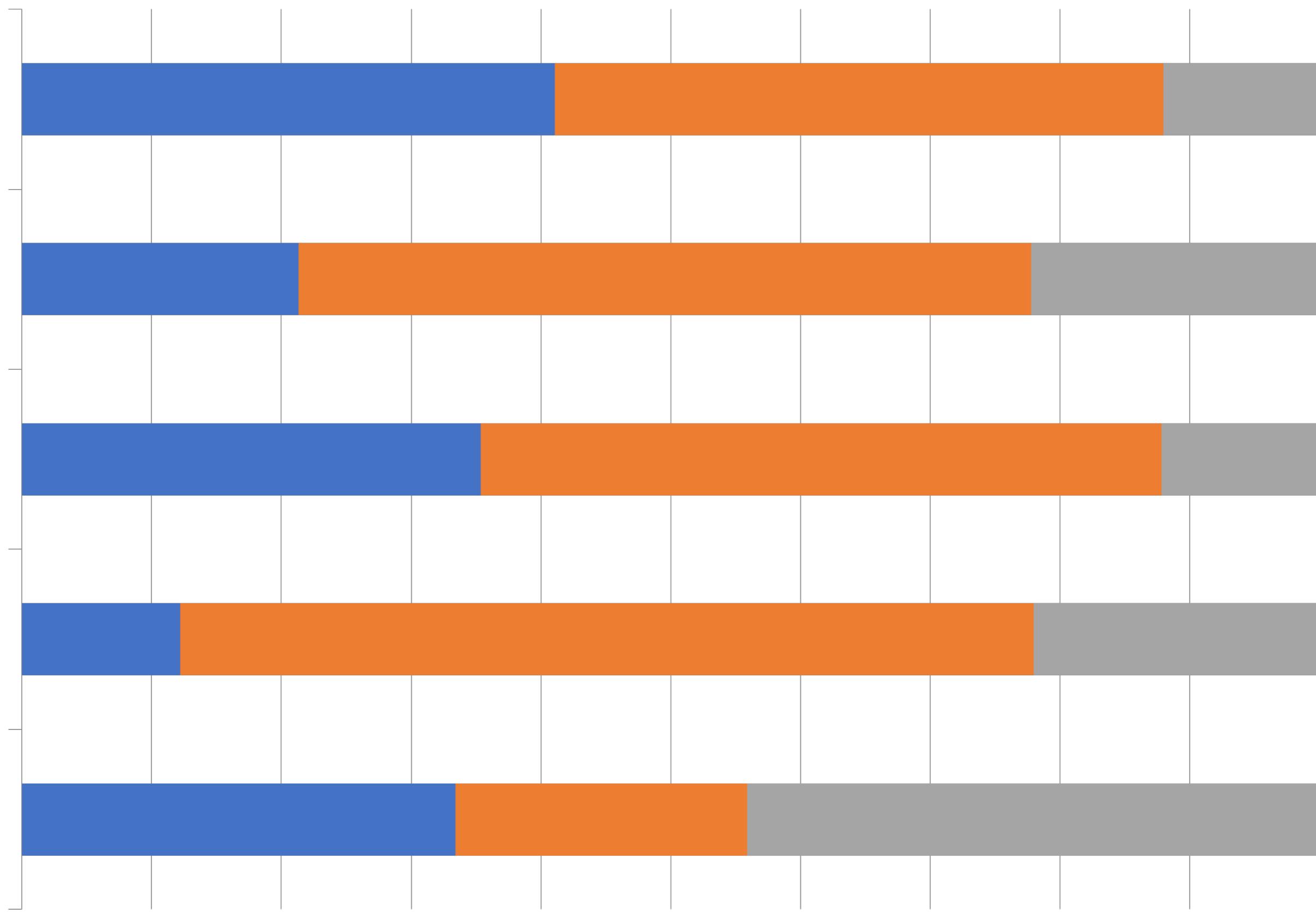
AMR

AFR

AA

CA

CC



5qA

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93

rs71624133
rs16885510

rs421215
rs400452

GD
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SAS

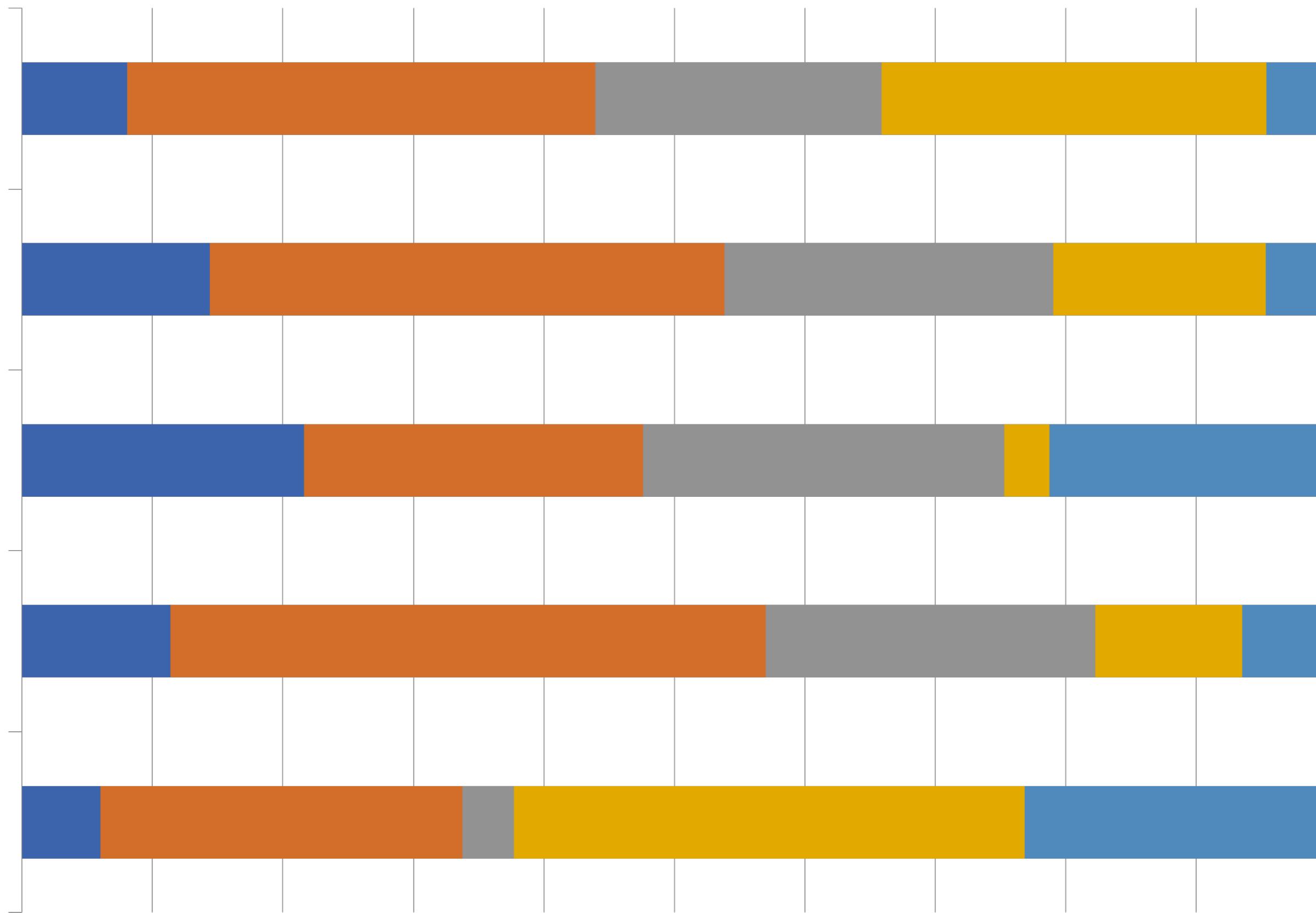
EUR

EAS

AMR

AFR

CCTT
TCGT
TCTA
TCTT
TTTT
Other



5qB

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41

rs4264928
rs4489045

rs56997890
rs4308467

GD
0.671

SAS

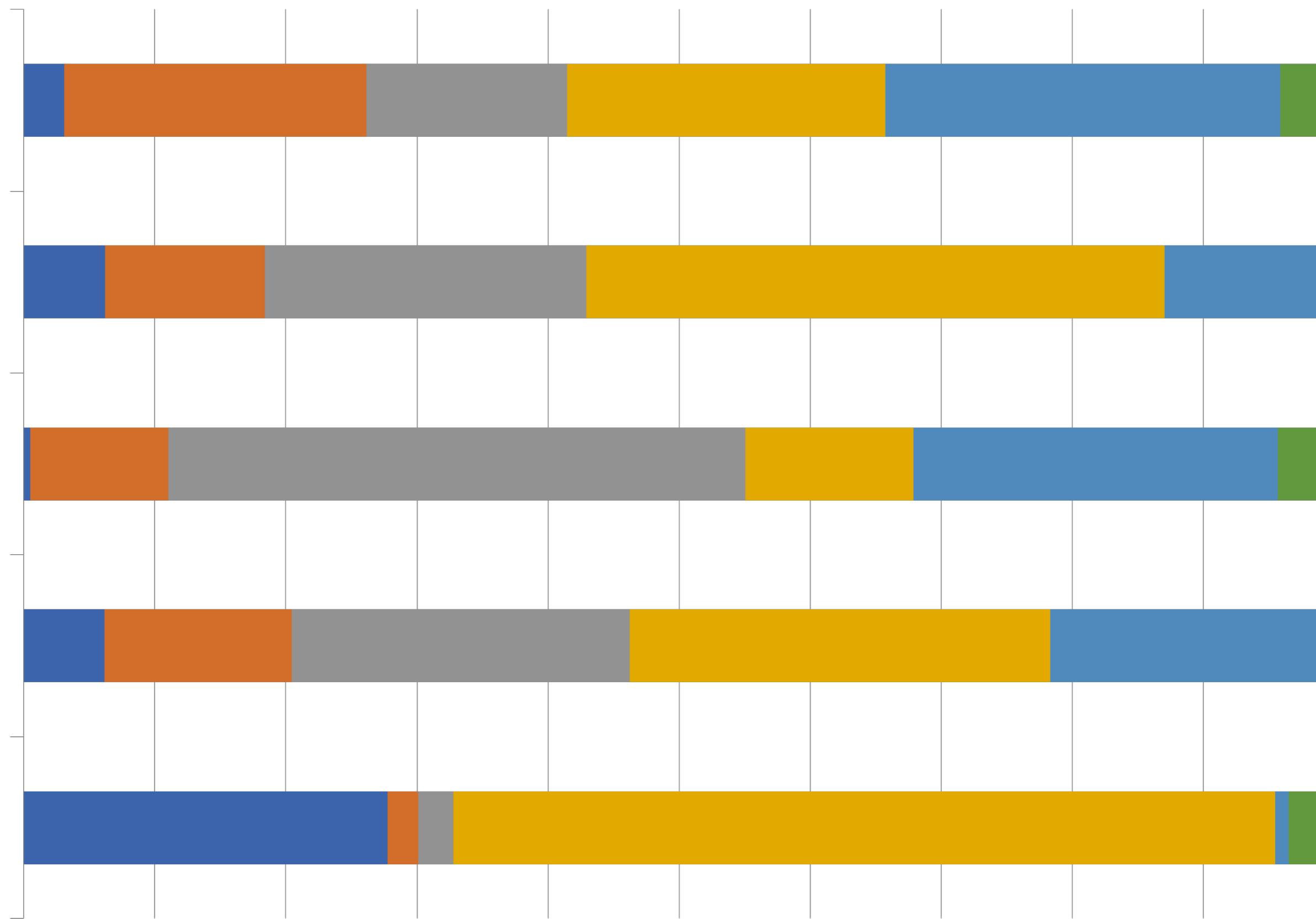
EUR

EAS

AMR

AFR

- CAAC
- CCAC
- CCAT
- TTAC
- TTGC
- Other



5qC

5:132916359-132916408

49

rs10491291
rs256256
rs256257

GD
0.699

SAS

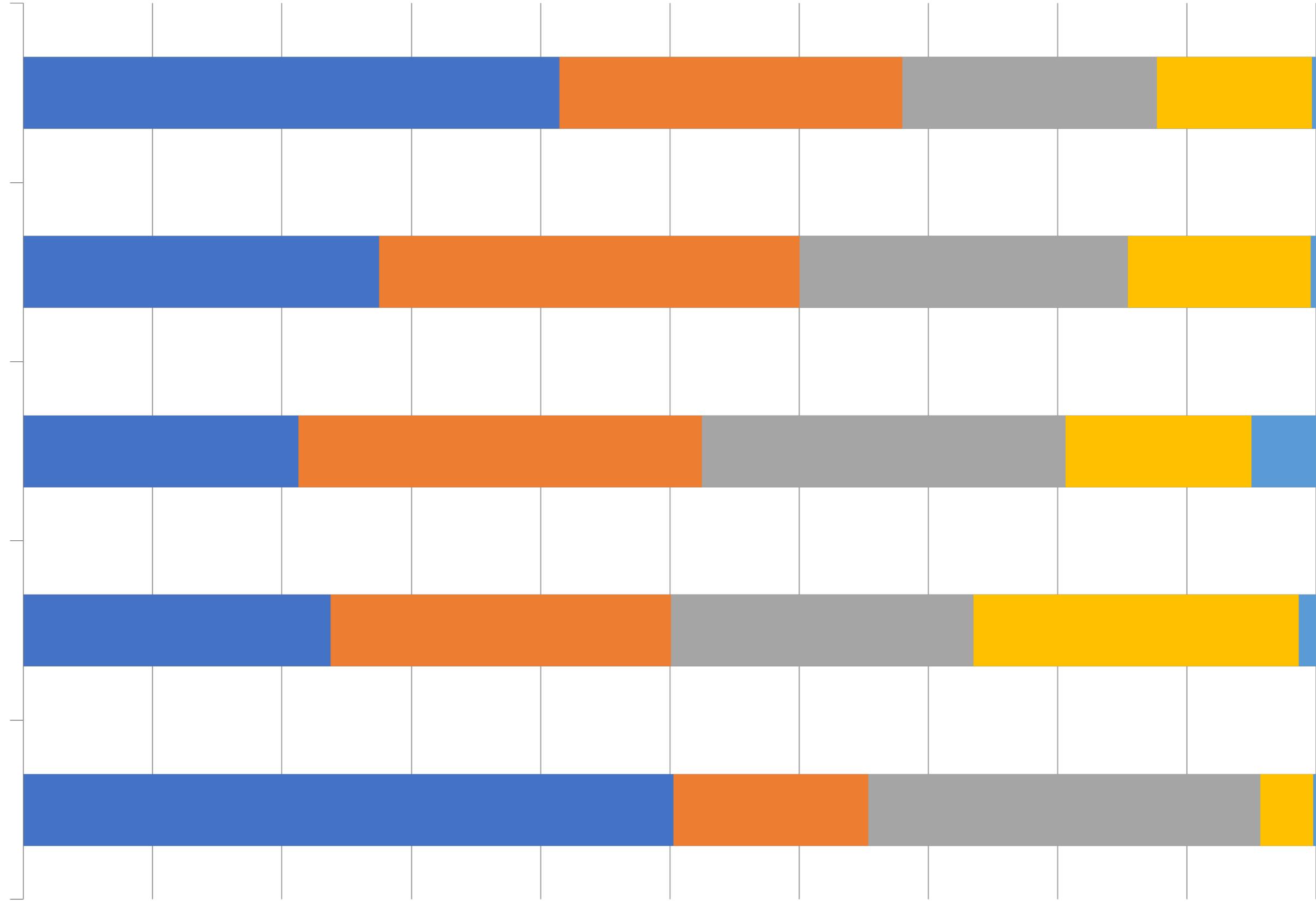
EUR

EAS

AMR

AFR

CAC
CGC
CGT
TGT
Other



5qD

5:178267369-178267415

46

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rs28397824
rs4700820

GD
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SAS

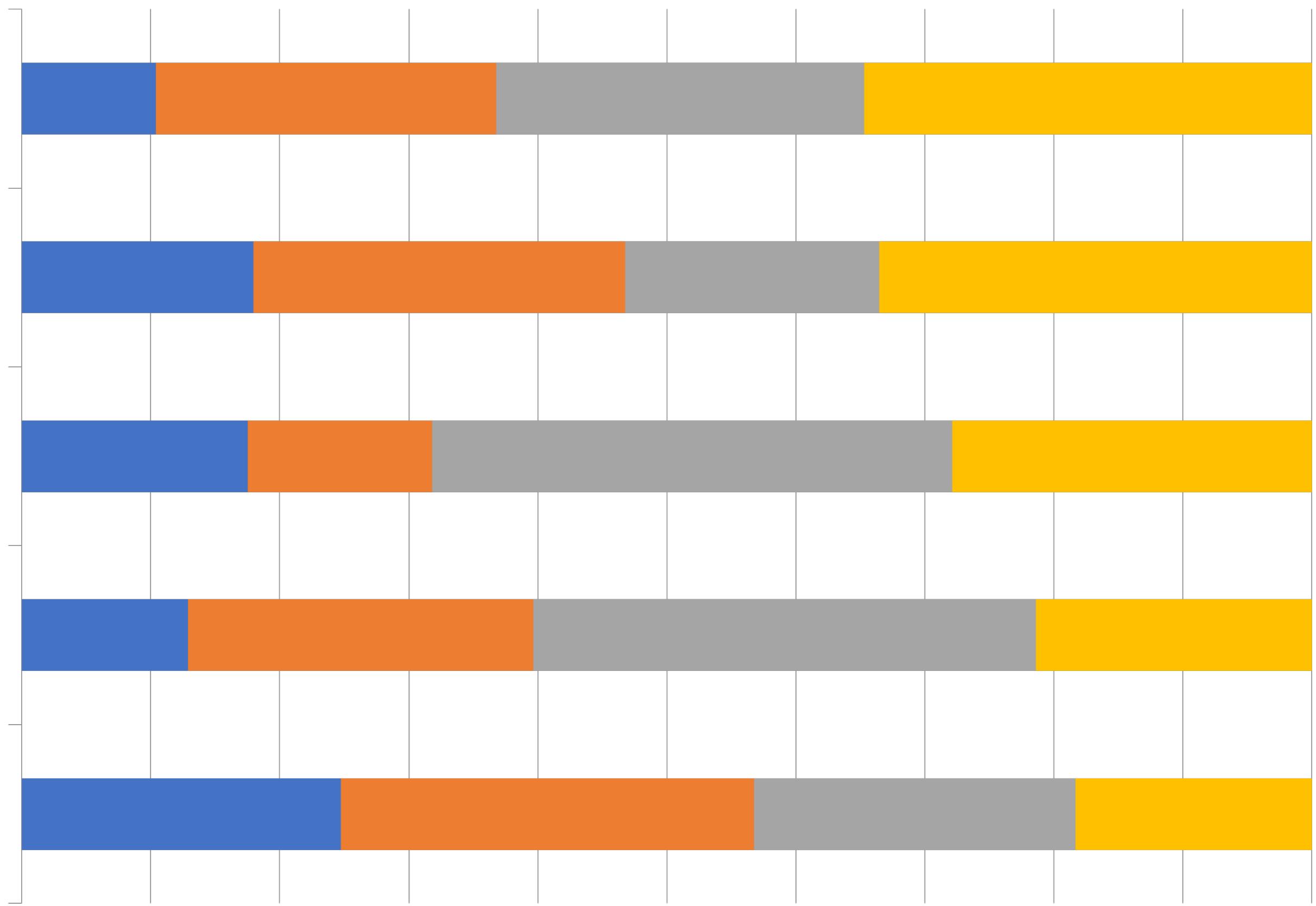
EUR

EAS

AMR

AFR

AAG
GAA
GAG
GGG



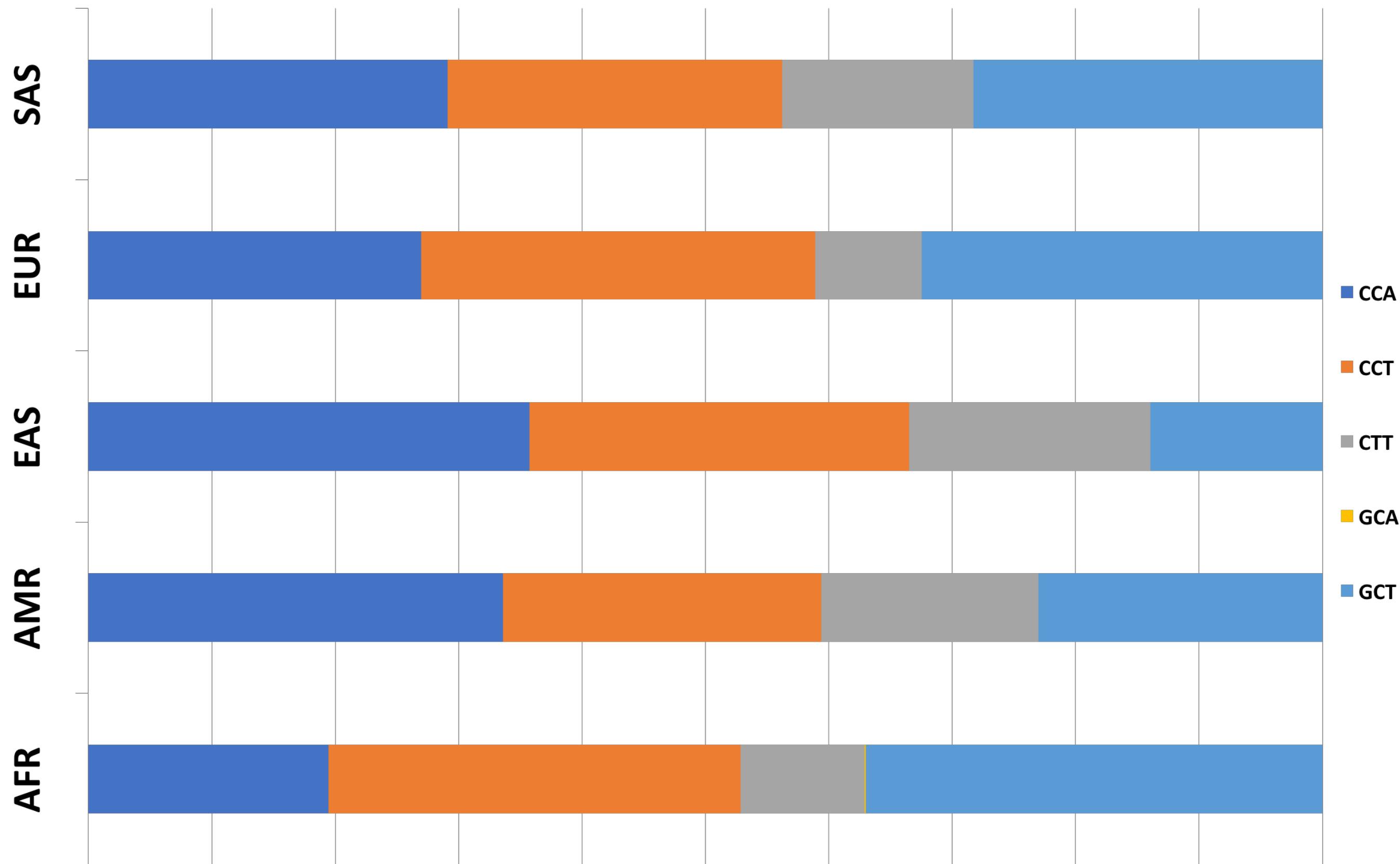
6pA

6:23765331-23765372

41

rs6931626
rs16888137
rs9379570

GD
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6pB

6:53700961-53701080

11

rs4645423
rs3001008
rs6903399

GD
0.673

SAS

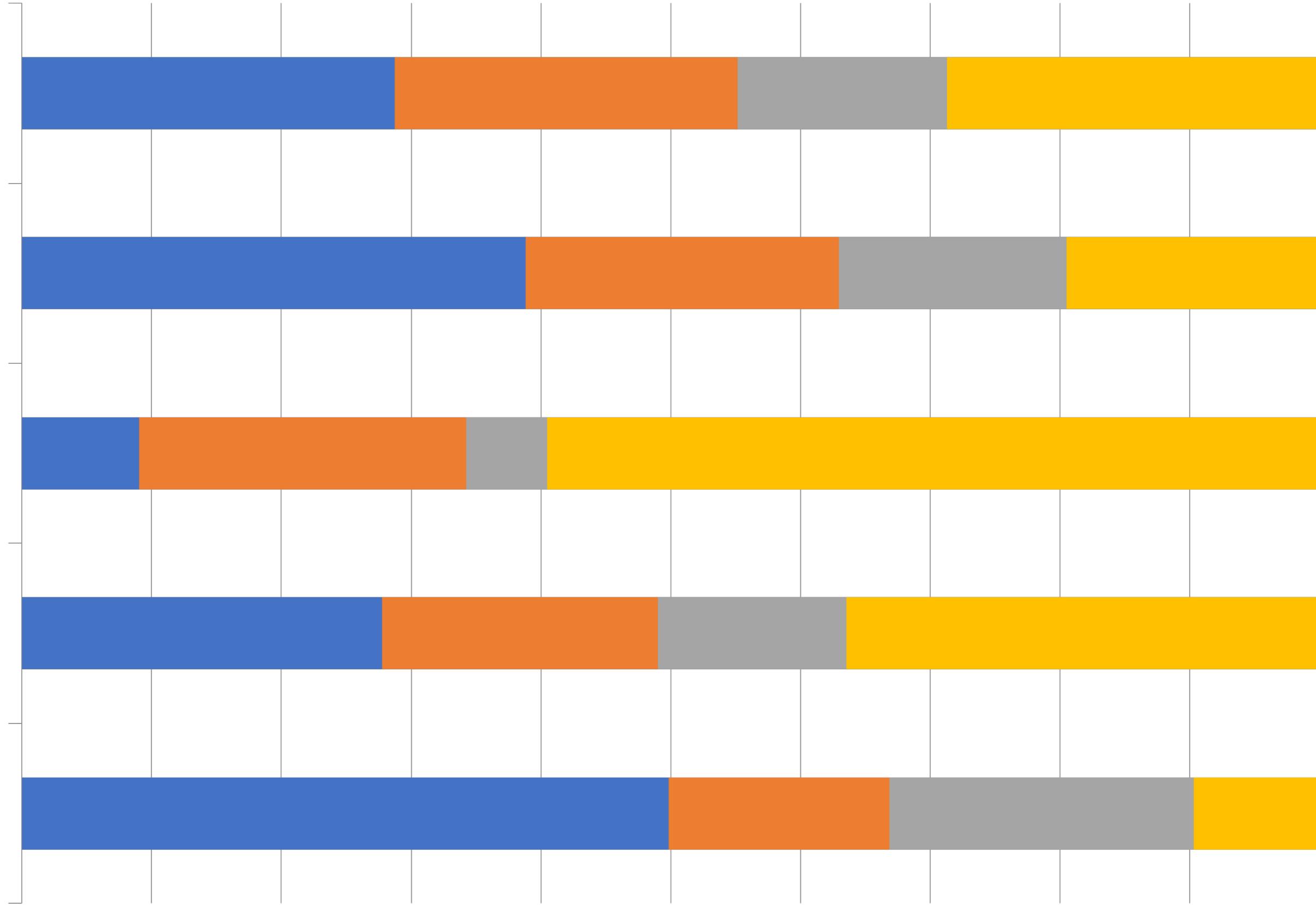
EUR

EAS

AMR

AFR

CAA
CGA
TAA
TAG



6qA

6:77943041-77943057

16

rs11756056
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GD
0.667

SAS

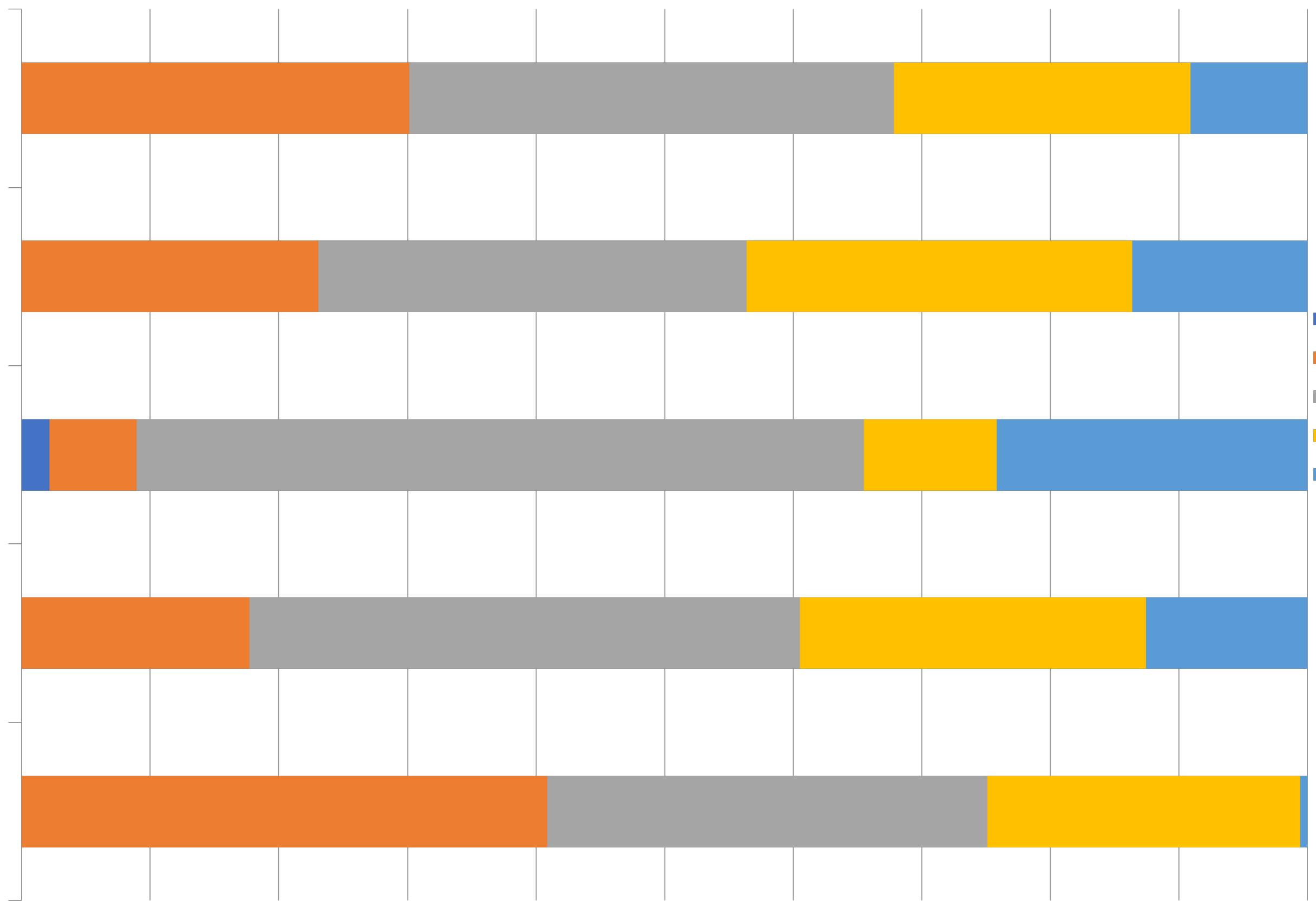
EUR

EAS

AMR

AFR

- CCC
- CCT
- GCC
- GCT
- GTT



6qB

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33

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rs1932879 rs685476
rs513485GD
0.688

SAS

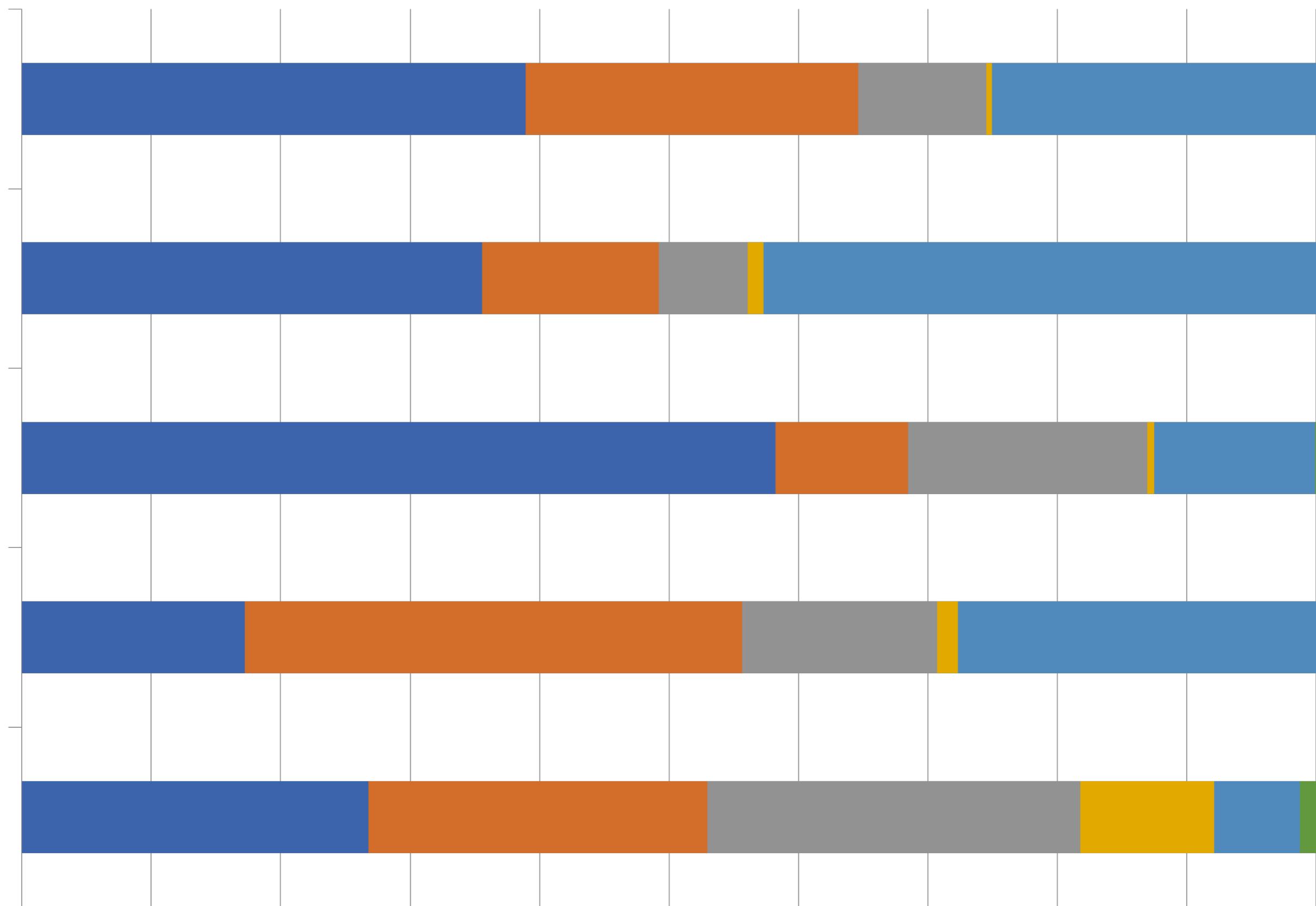
EUR

EAS

AMR

AFR

- ACAG
- GCGG
- GCAC
- GCAG
- GTGG
- GCGC



6qC

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47

rs7753659
rs9398528
rs9489814

GD
0.669

SAS

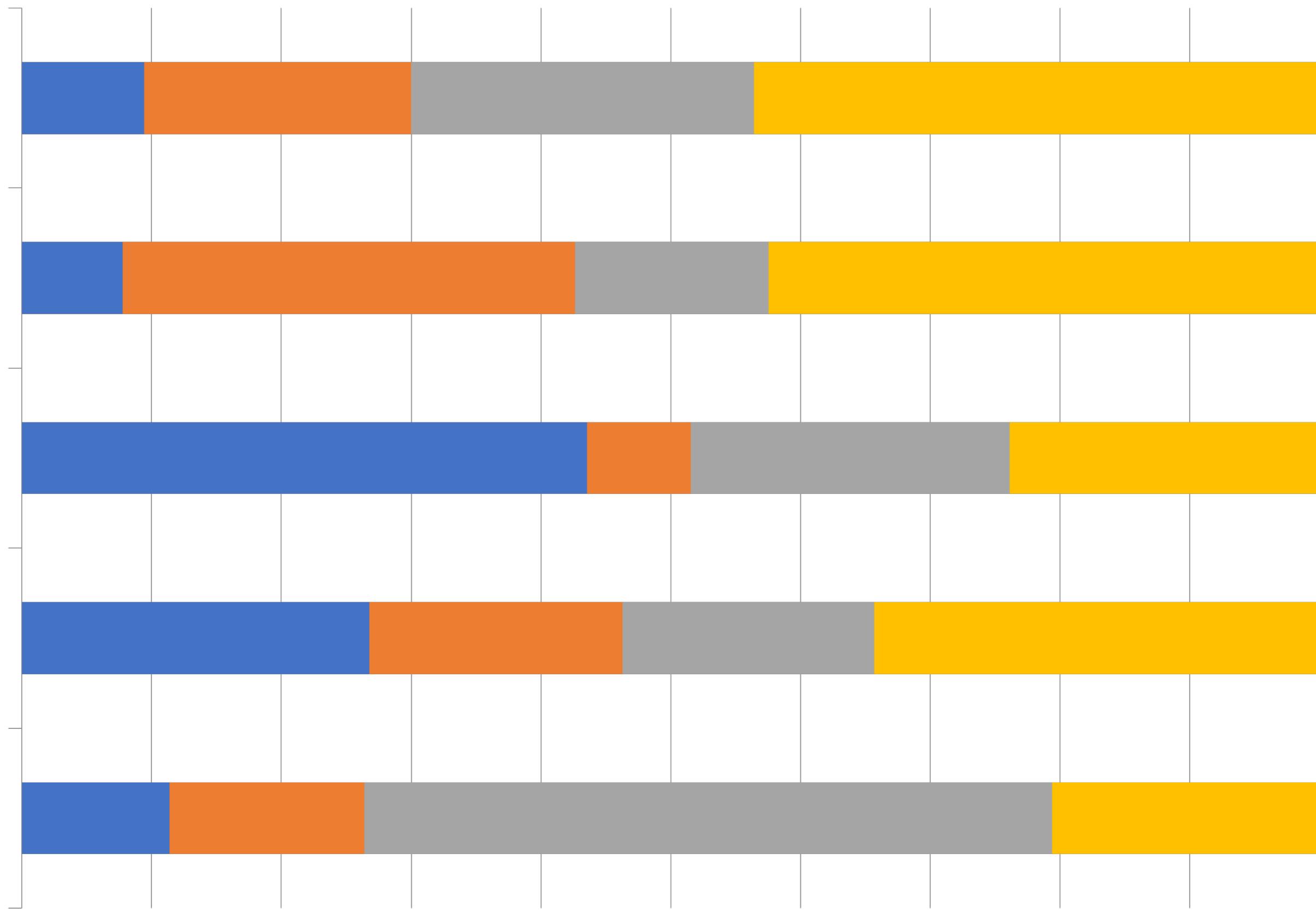
EUR

EAS

AMR

AFR

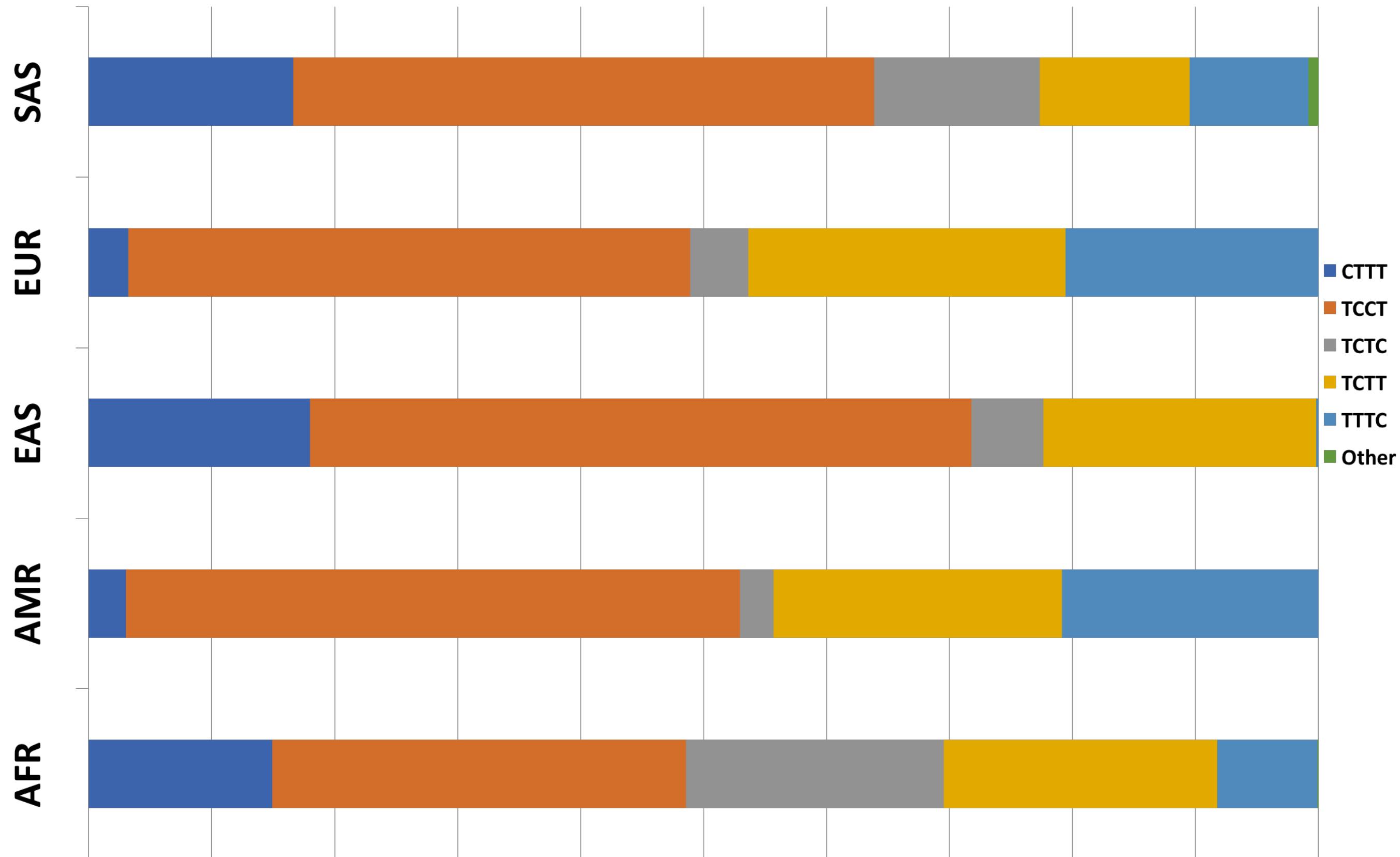
ACC
ATC
ATT
CTC



6qD

6:164027663-164027758

95

rs17592412
rs36050623
rs9365583
rs9365584GD
0.684

7pA

7:11613136-11613179

43

rs12699242
rs11769538

rs69
rs11769542

GD
0.718

SAS

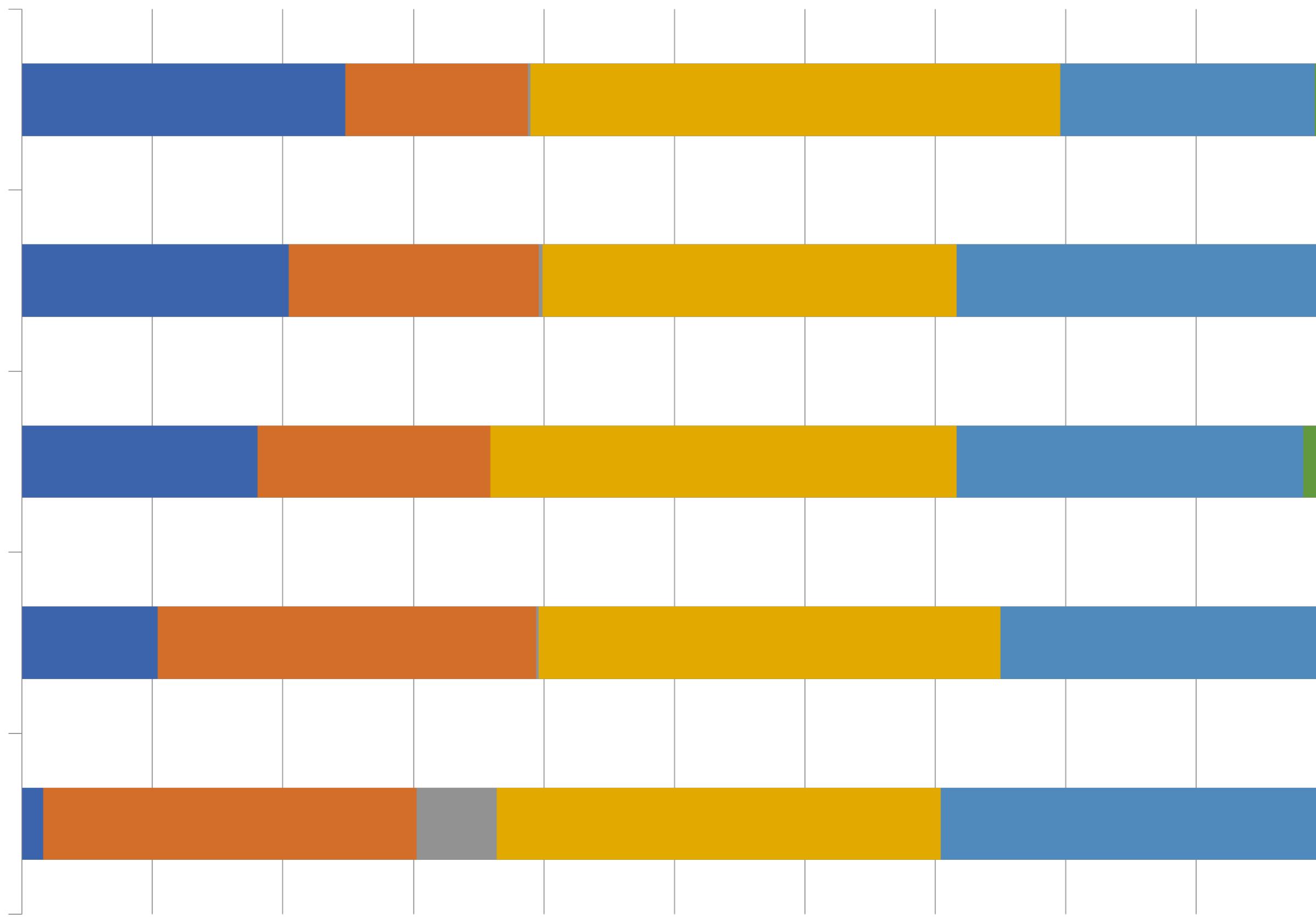
EUR

EAS

AMR

AFR

- AAGA
- AATA
- AATC
- AGTC
- TATC
- Other



7pB

7:25447589-25447640

51

rs6951954
rs6969555

rs2158900
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GD
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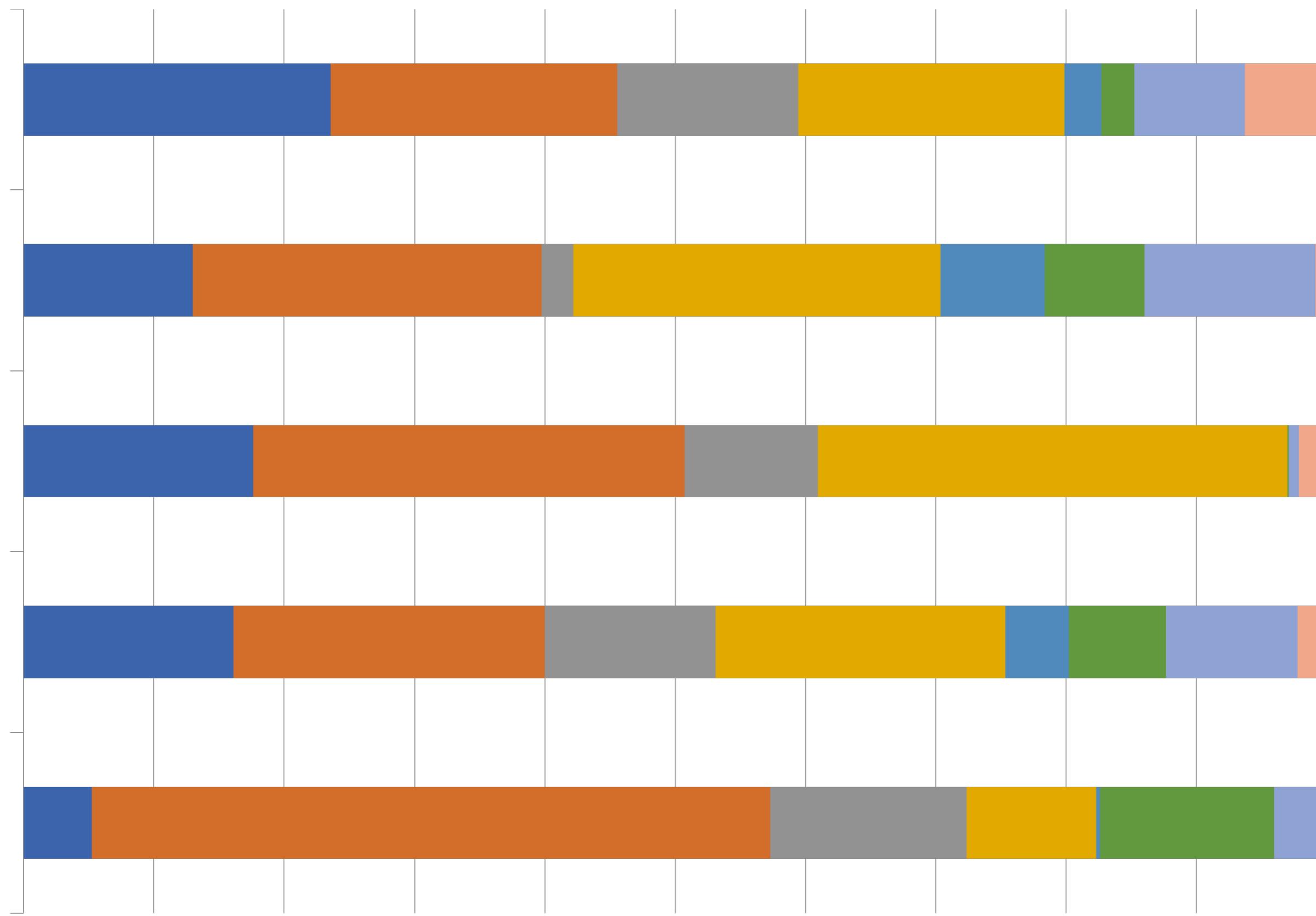
SAS

EUR

EAS

AMR

AFR



7pC

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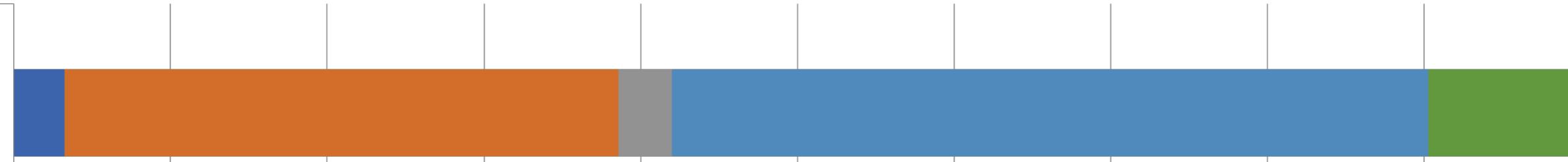


rs7800246
rs7811722
rs13238865

rs13228137
rs7811740

GD
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SAS



EUR



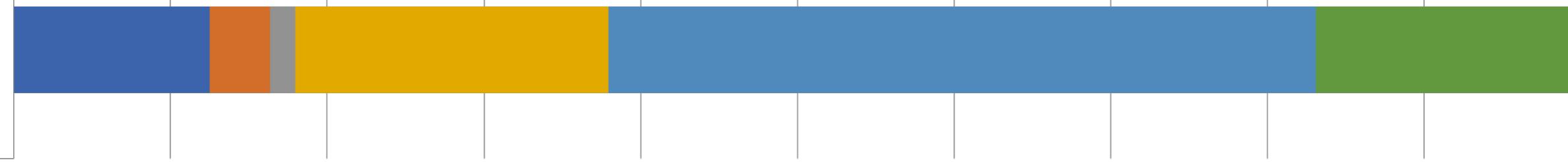
EAS



AMR



AFR



CCCGC
CCTAC
CCTGC
CTCGC
CTCGT
TCCGC
Other

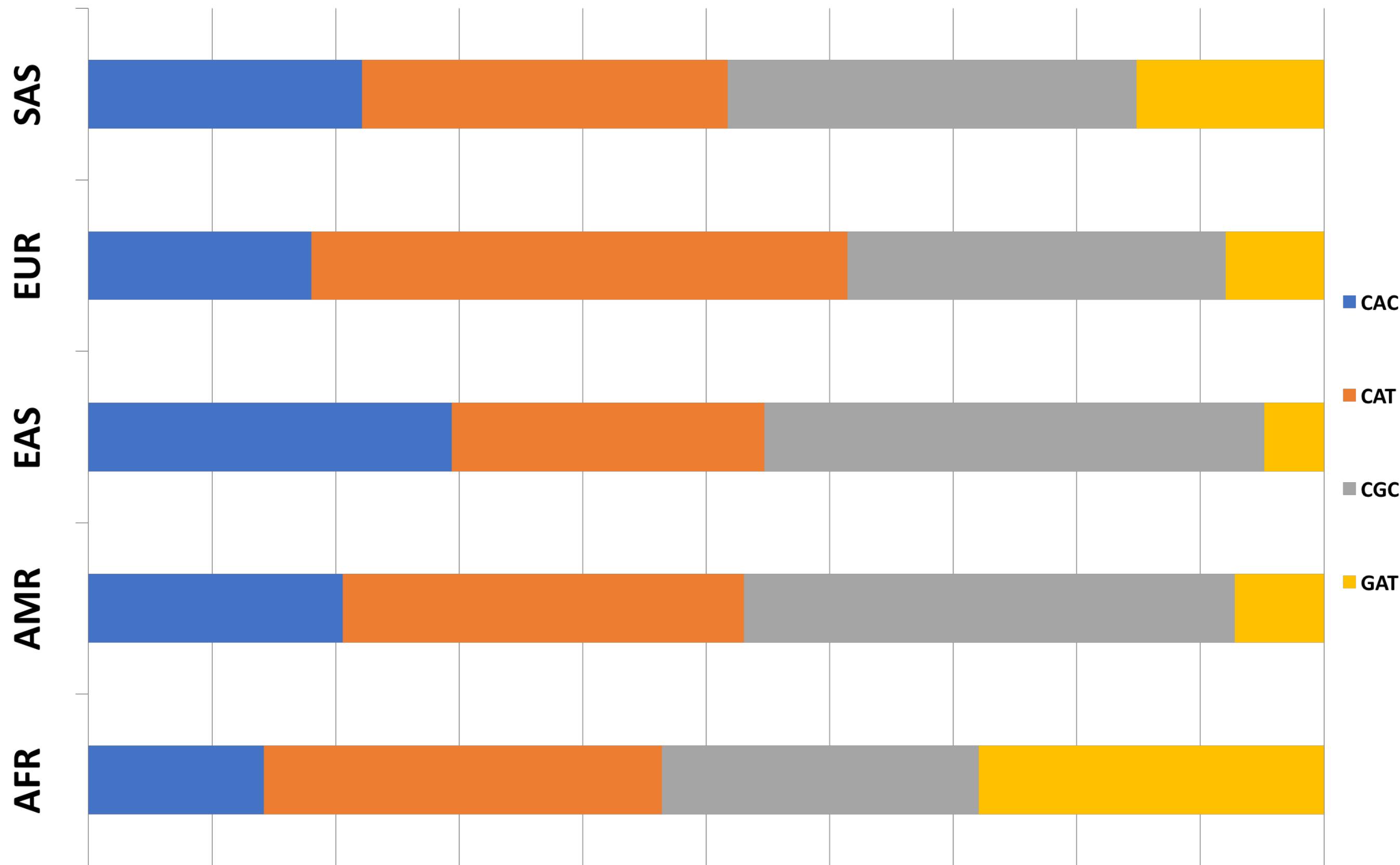
7qA

7:68052881-68052934

53

rs10257650
rs7800426
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GD
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7qB

7:114672680-114672720



rs4483078
rs2396784
rs7791565

GD
0.656

SAS

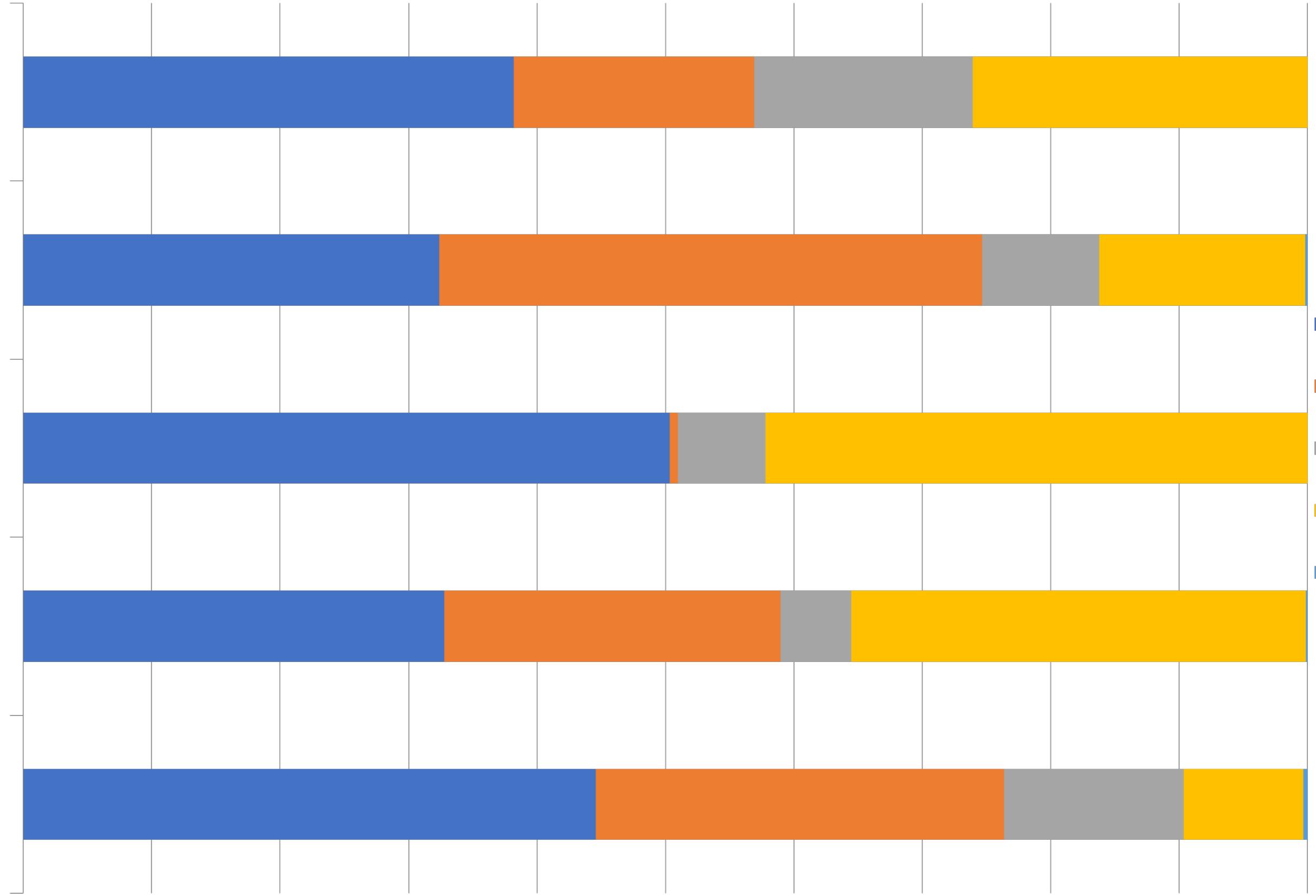
EUR

EAS

AMR

AFR

- CAA
- CAG
- CCA
- TCA
- Other



7qC

7:151518750-151518818

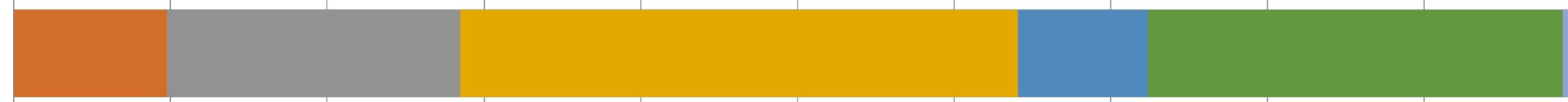
↔ 68 ↔

rs11769593
rs1528976
rs12532553rs10952319
rs12532554GD
0.743

SAS



EUR



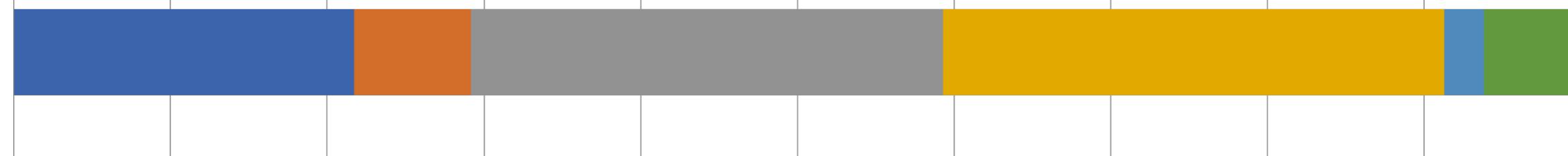
EAS



AMR



AFR



- AACAC
- AACGC
- AGCAC
- AGTGC
- AGTGT
- TACGC
- Other

8pA

8:3306430-3306458

28

rs10097211
rs80063668

rs73660014
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GD
0.729

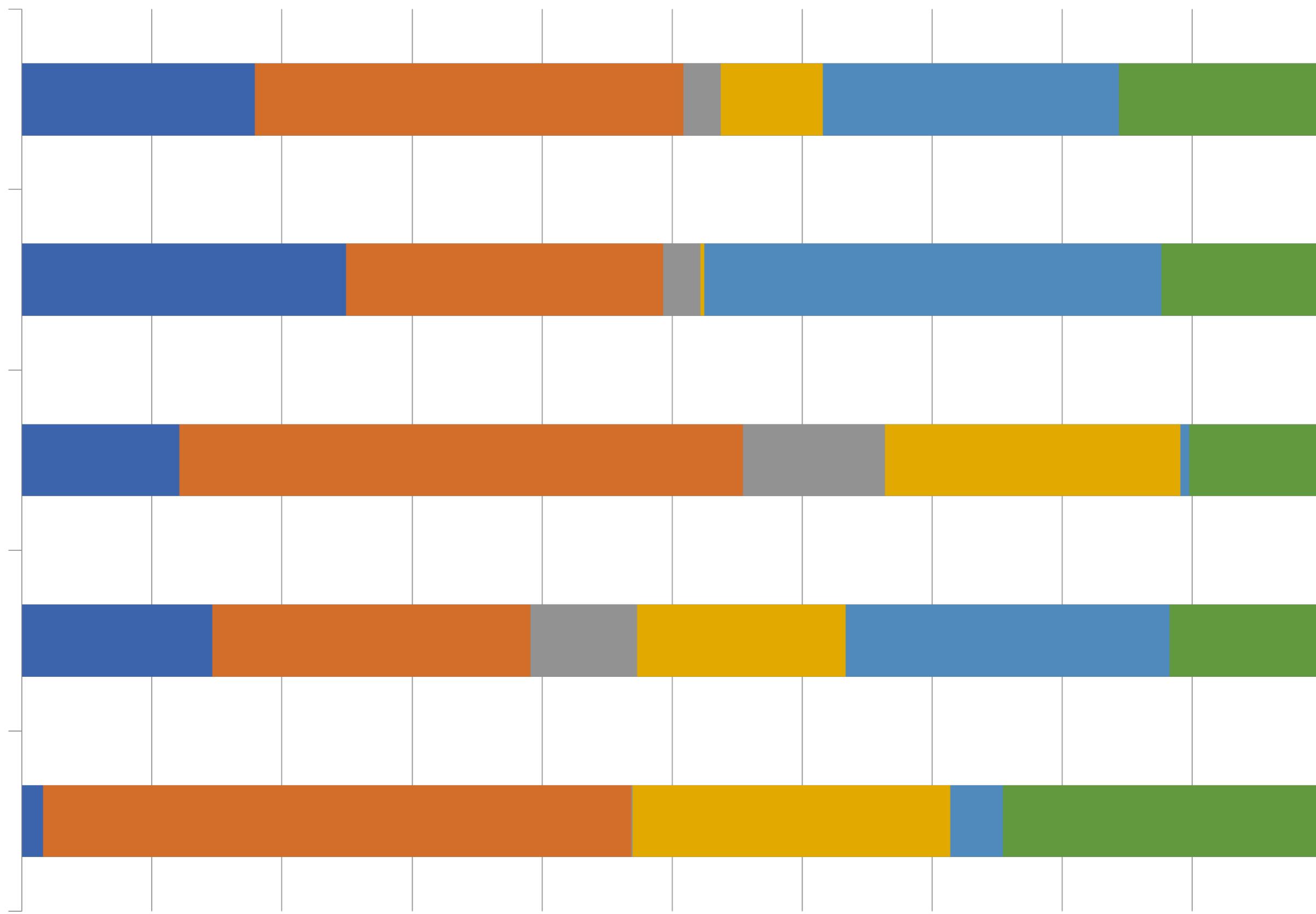
SAS

EUR

EAS

AMR

AFR



8pB

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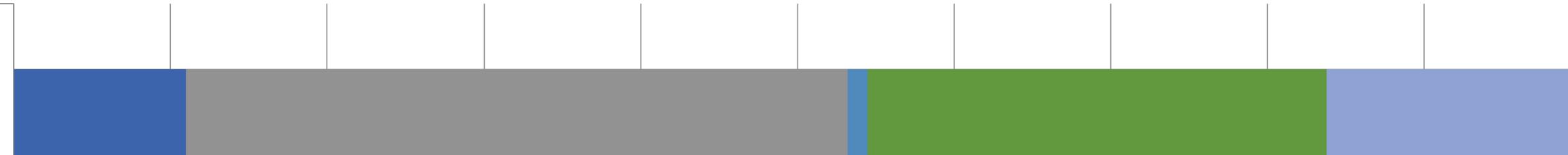
49

rs34821009
rs7822905
rs7836134

rs7822909
rs6474278

GD
0.694

SAS



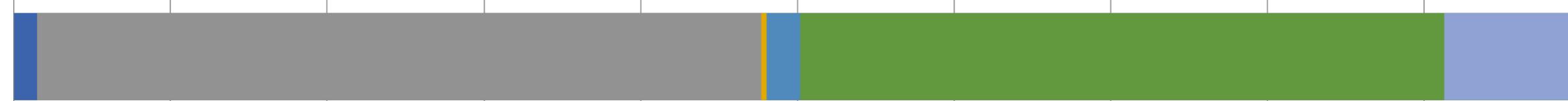
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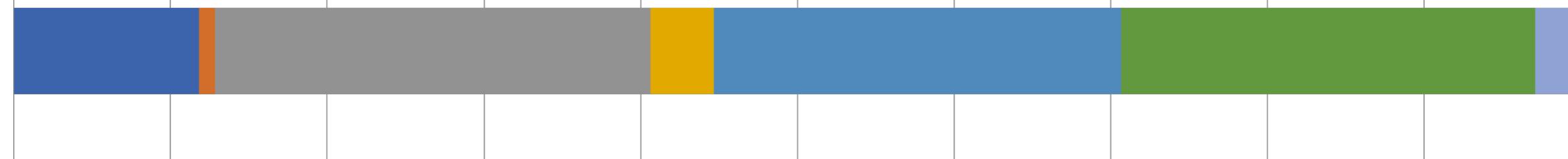
EAS



AMR



AFR



- CACCA
- CACTA
- CATCA
- CTCCA
- CTCTA
- CTCTG
- TTCTA
- Other

8qA

8:62944955-62945023

68

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rs344201

GD
0.646

SAS

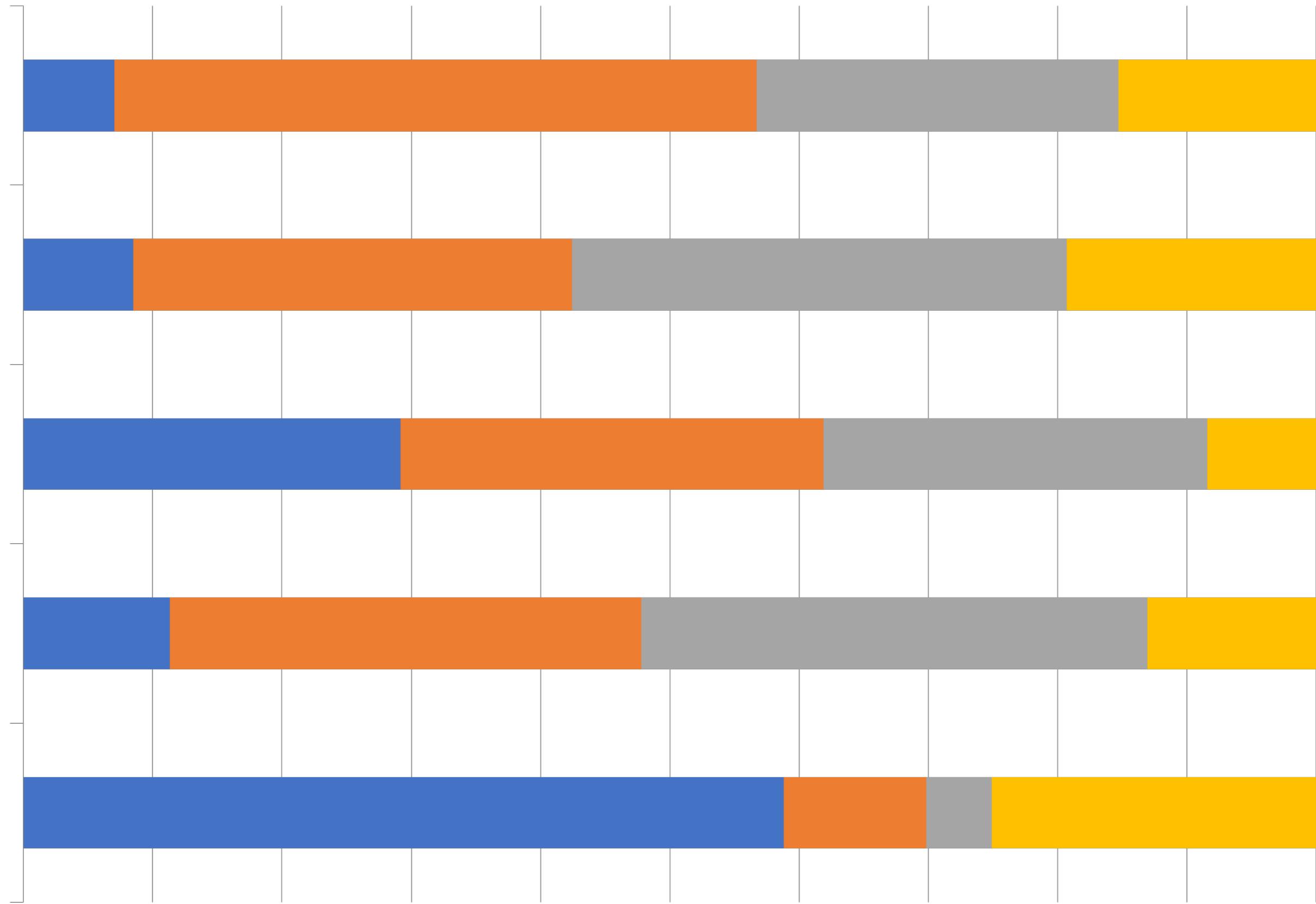
EUR

EAS

AMR

AFR

AAC
AAT
AGT
CAC



8qB

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38

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GD
0.658

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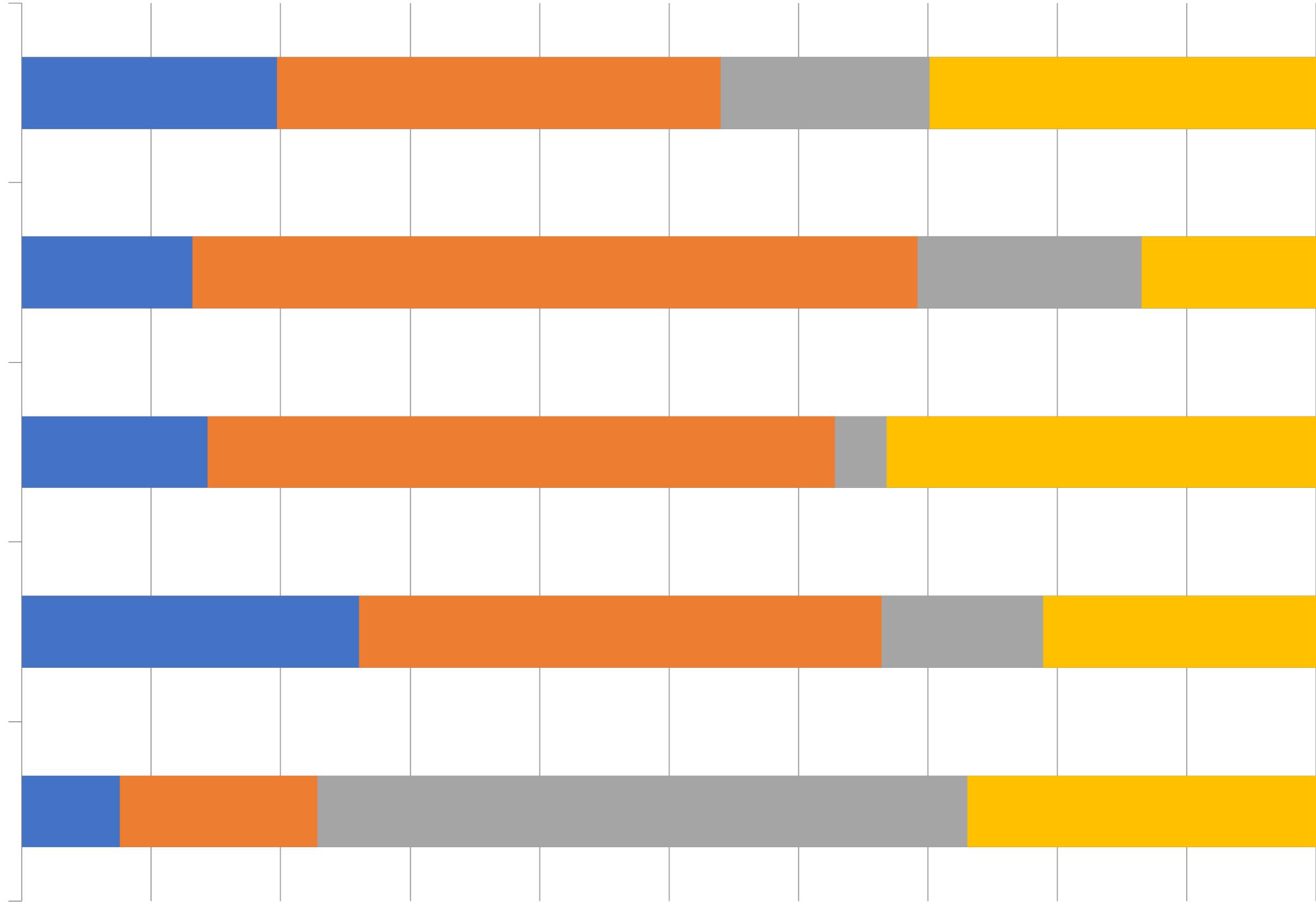
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EAS

AMR

AFR

ATT
GCT
GTC
GTT



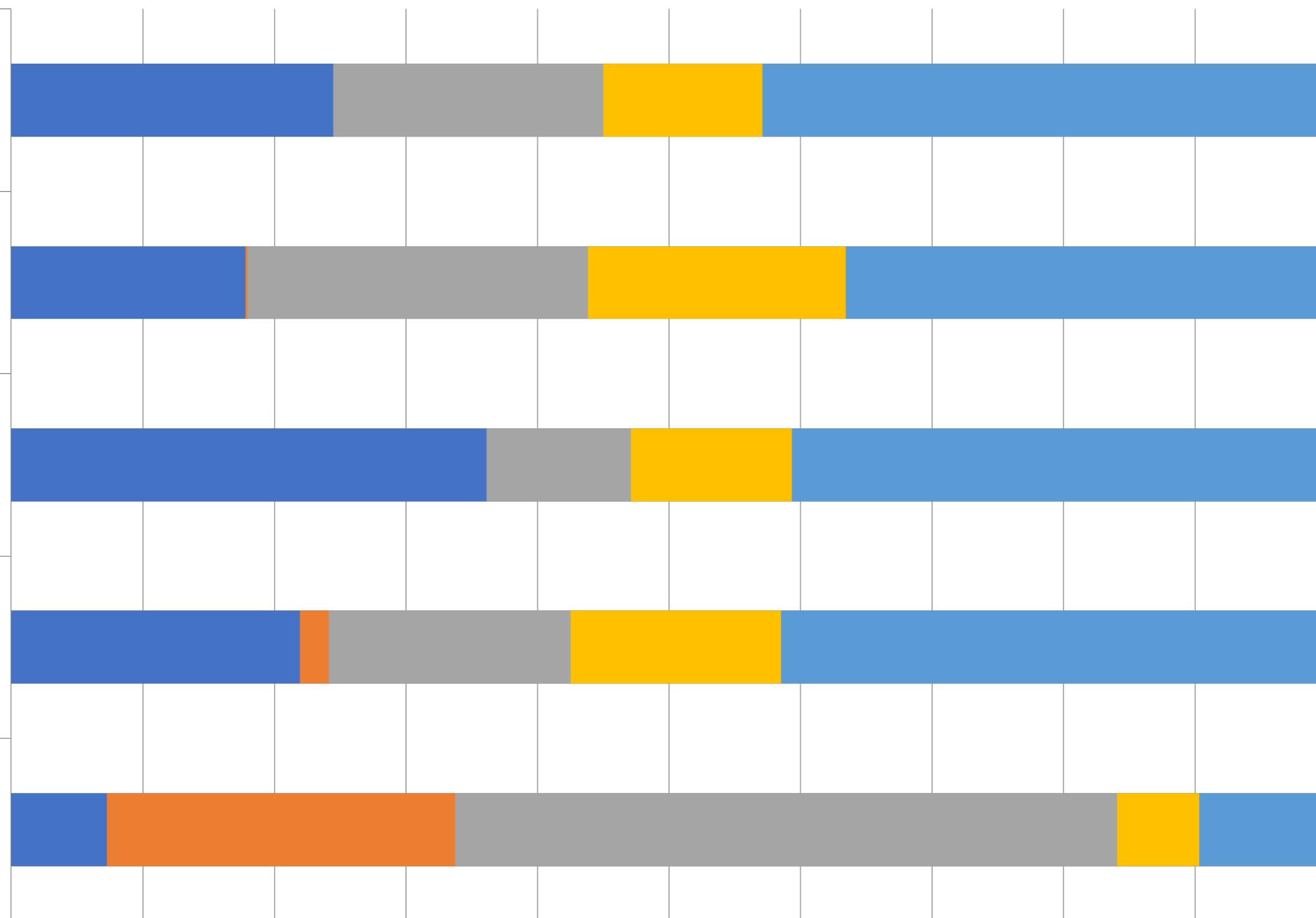
8qC

8:138040682-138040764

82

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rs16906685rs9324441
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0.685**SAS****EUR****EAS****AMR****AFR**

- █ AAAC
- █ CAAC
- █ CAGC
- █ CCGA
- █ CCGC



9pA

9:2288647 -2288718

71

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rs12555748rs1535838
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0.746

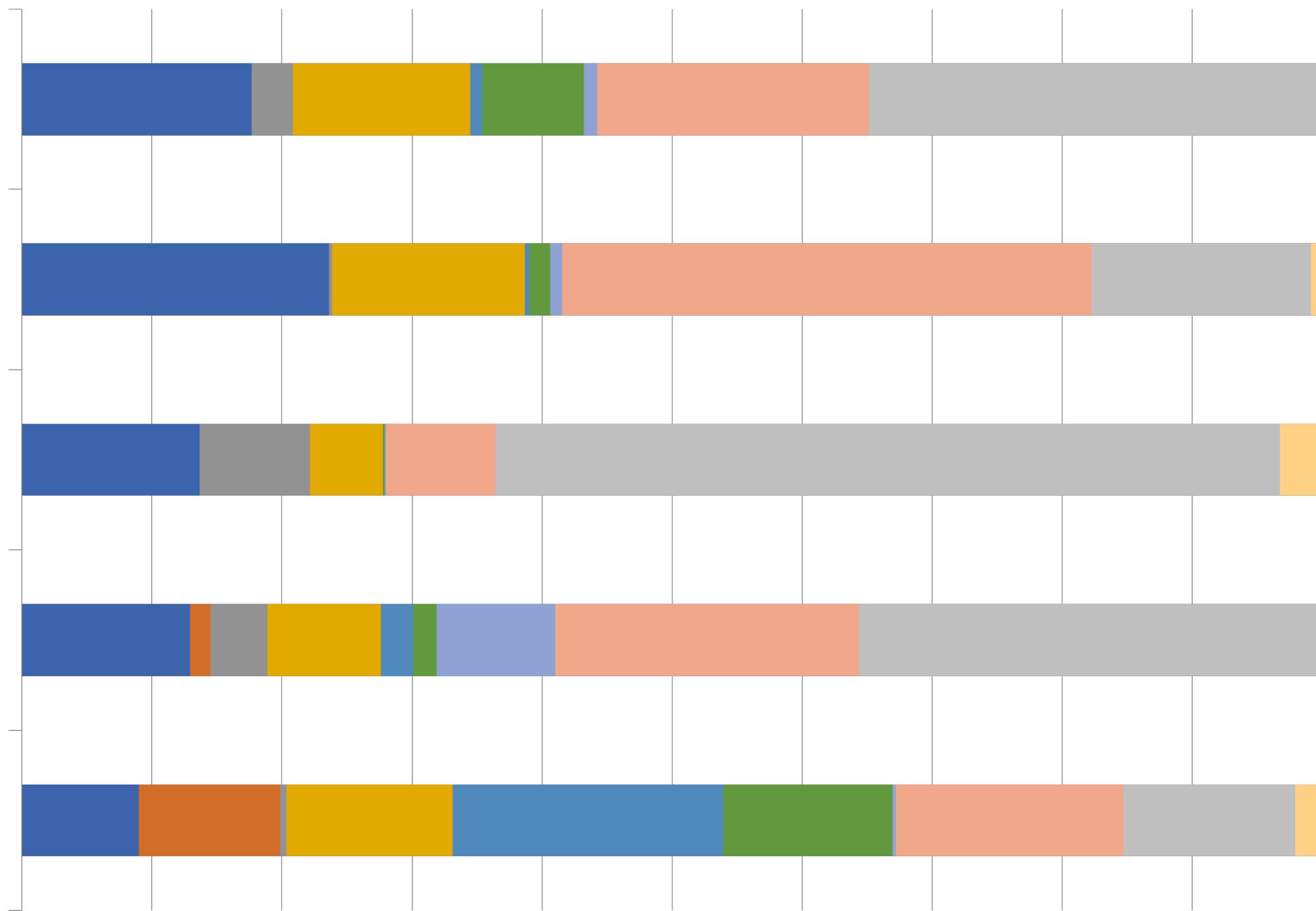
SAS

EUR

EAS

AMR

AFR



9pB

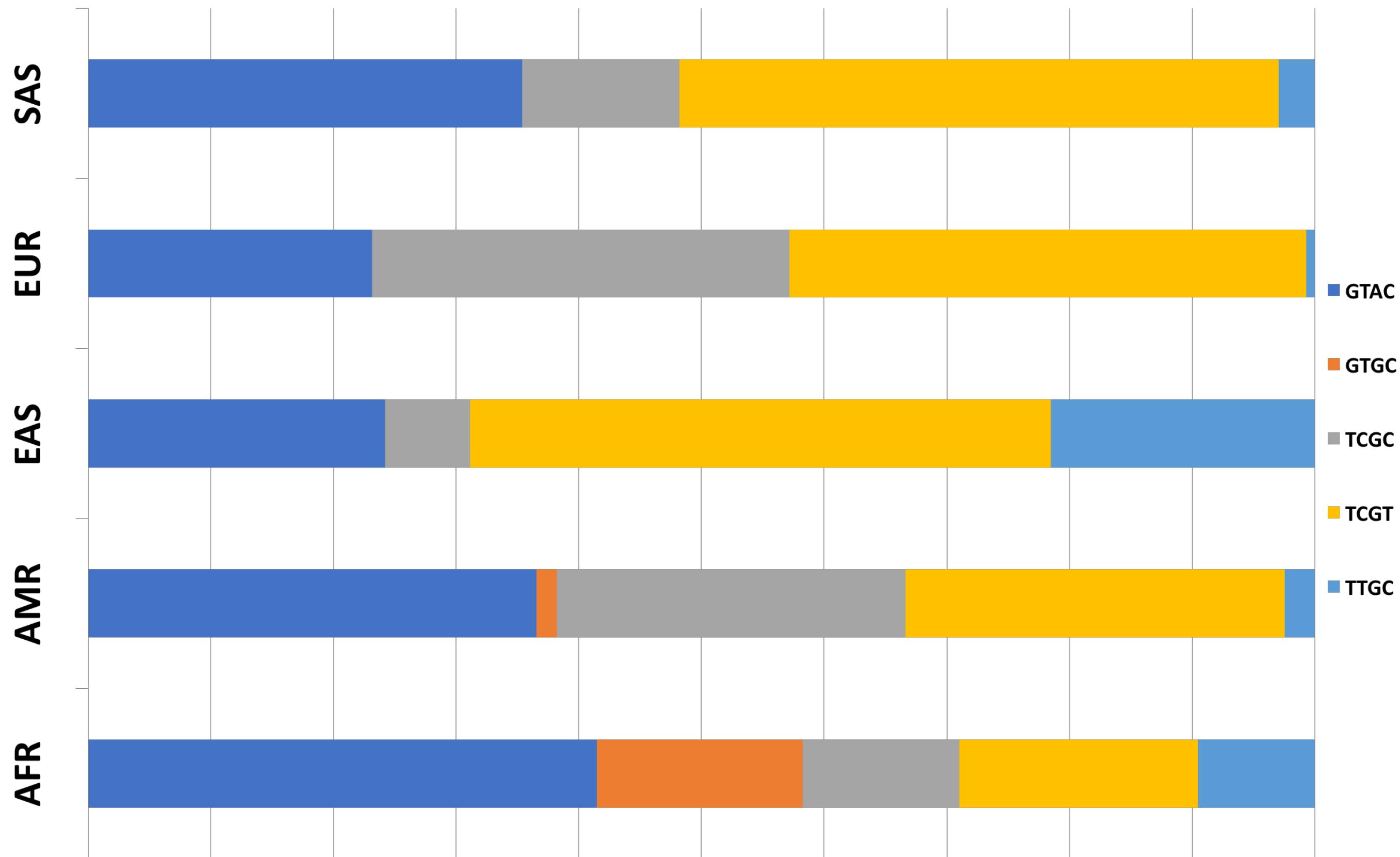
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rs7855880**

**rs7869450
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**GD
0.670**



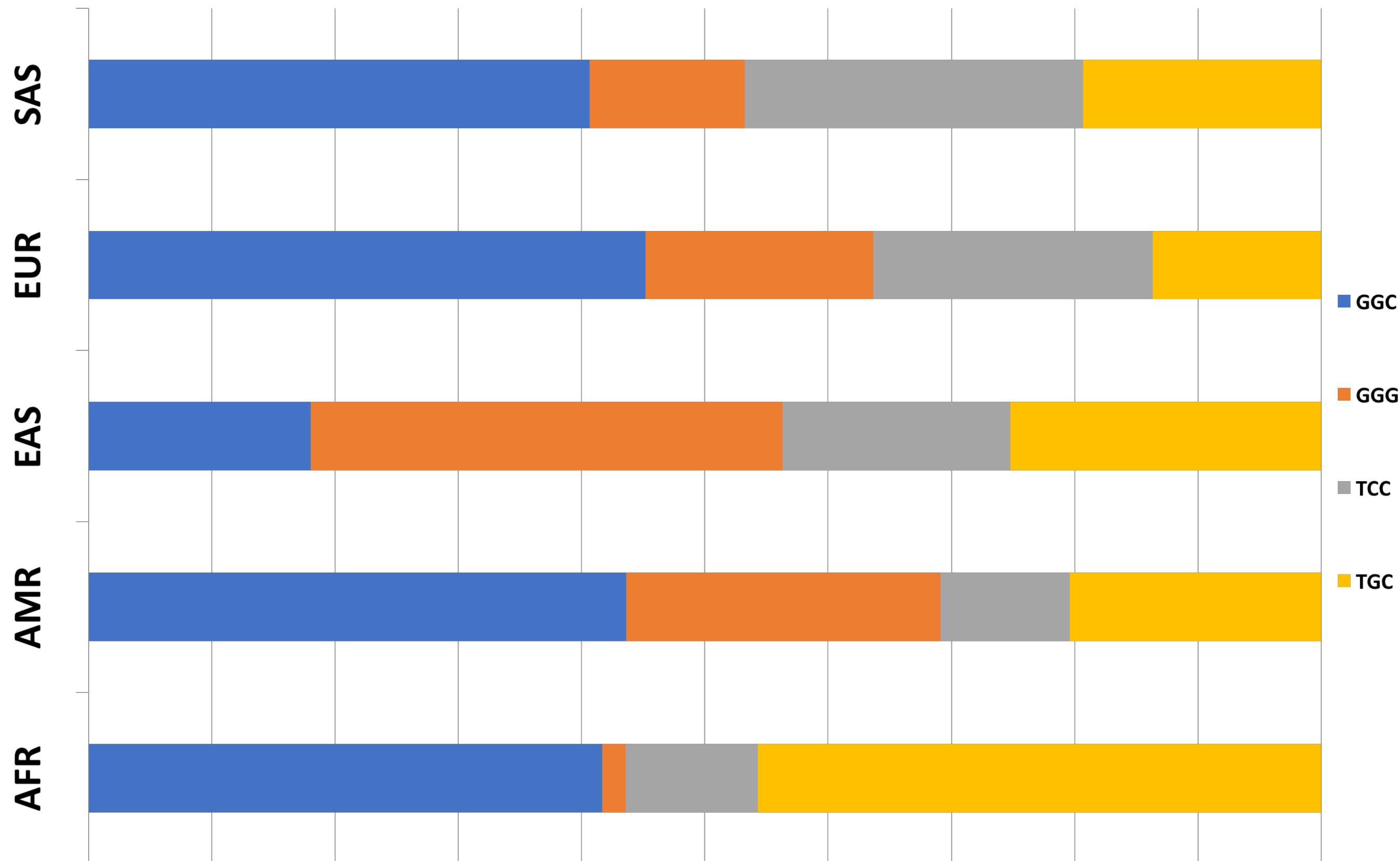
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59

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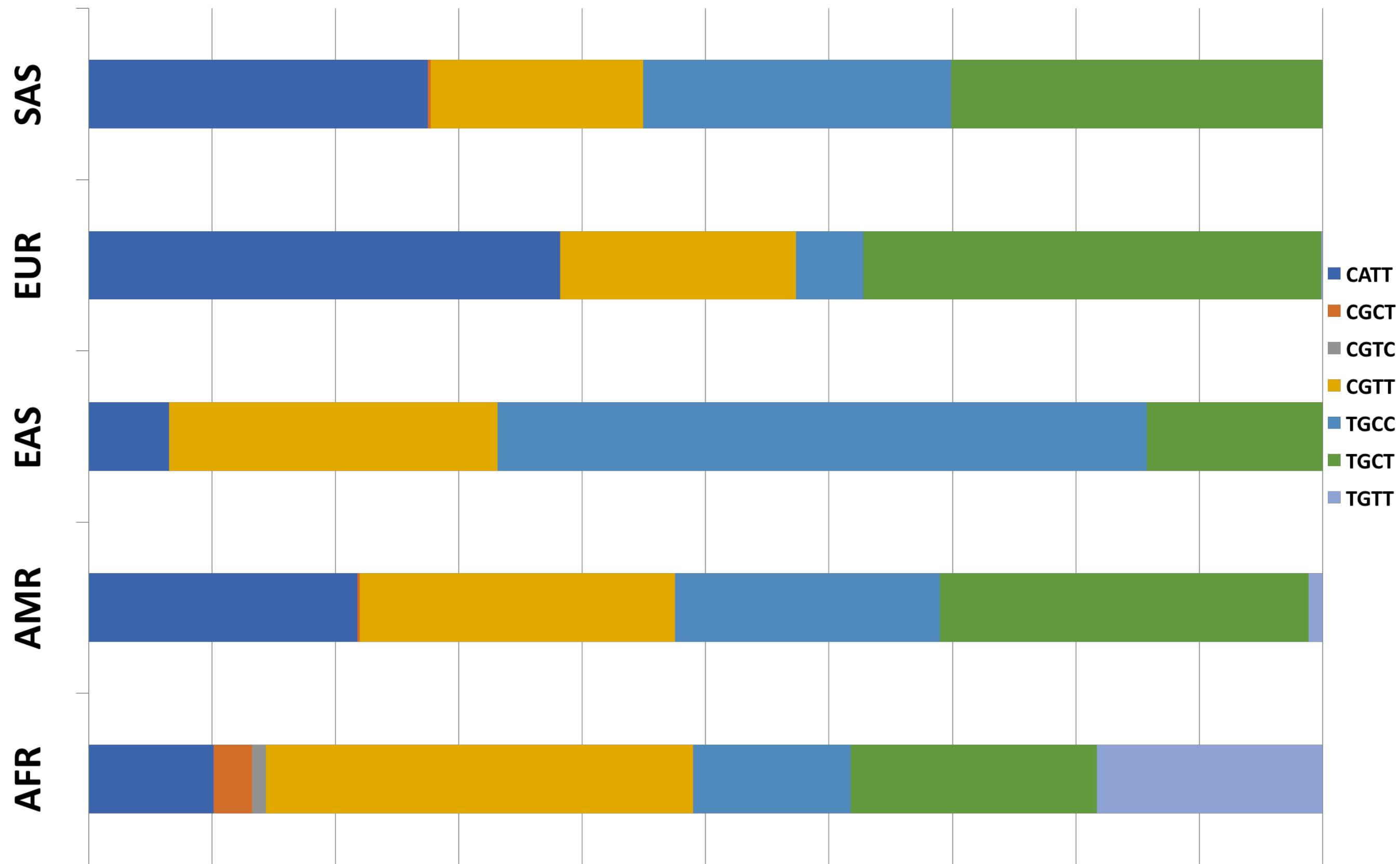
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9qB

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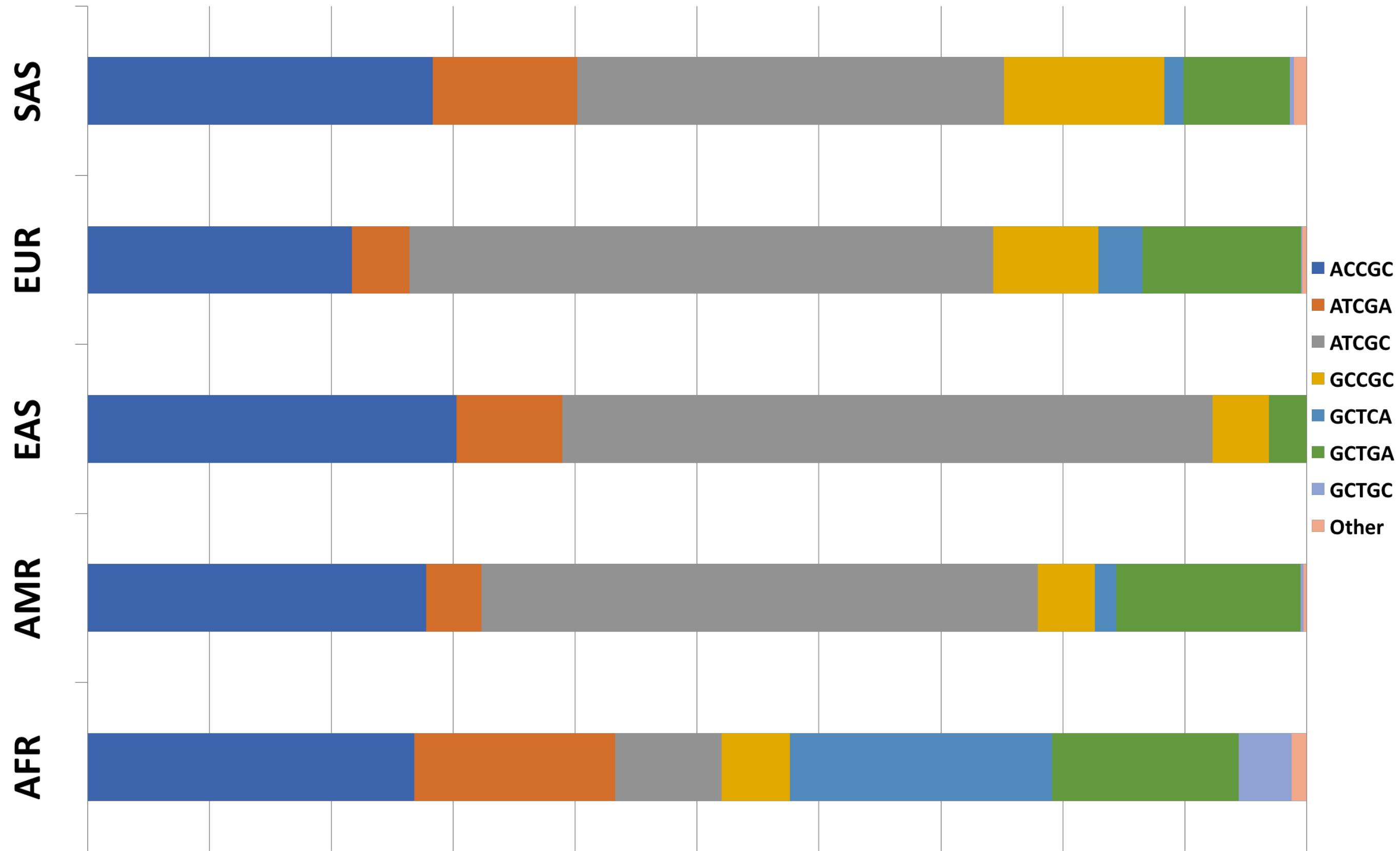
36

rs689244
rs7020766 rs689230
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9qC

9:136768837-136768914

77

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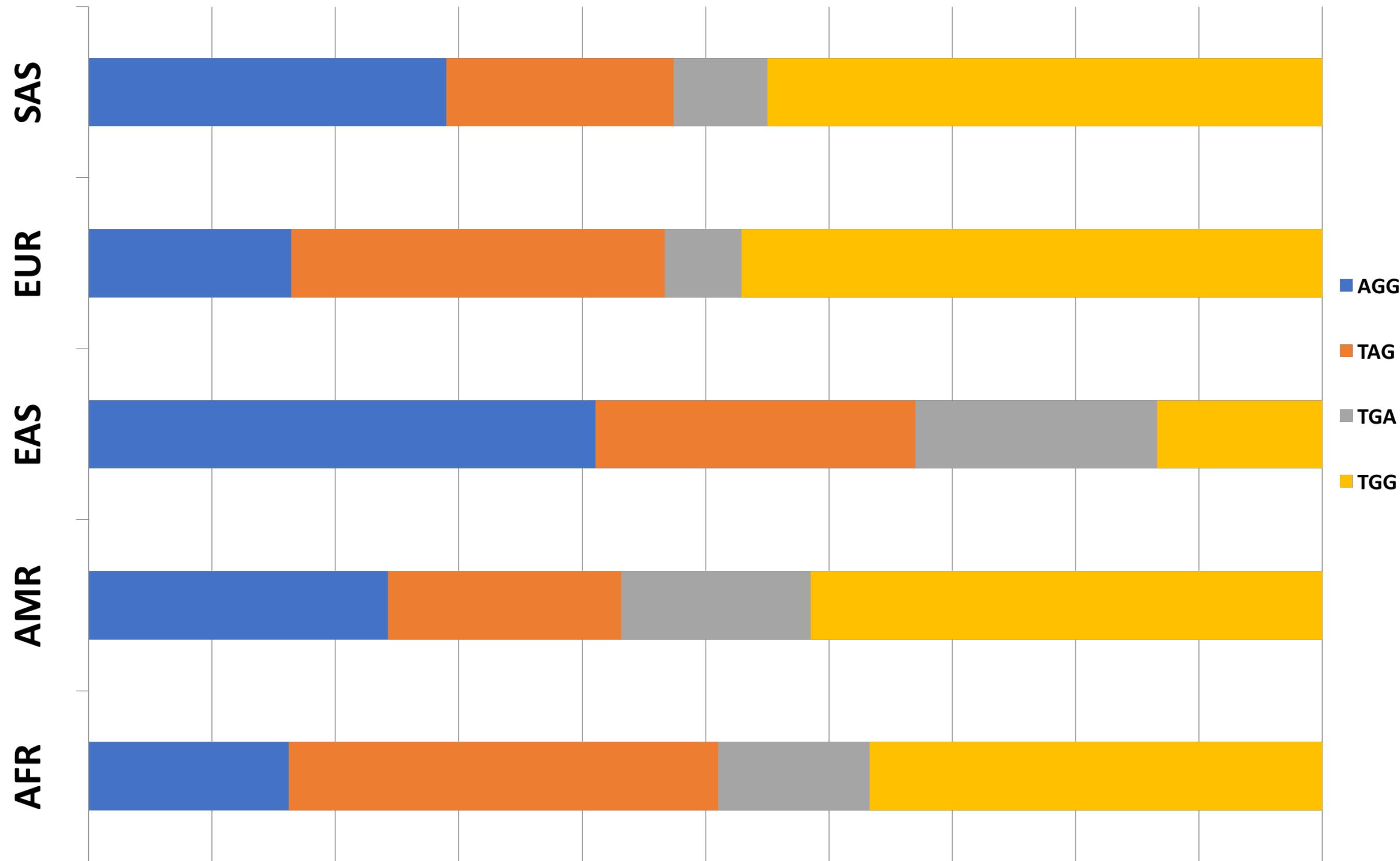
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26

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GD
0.682



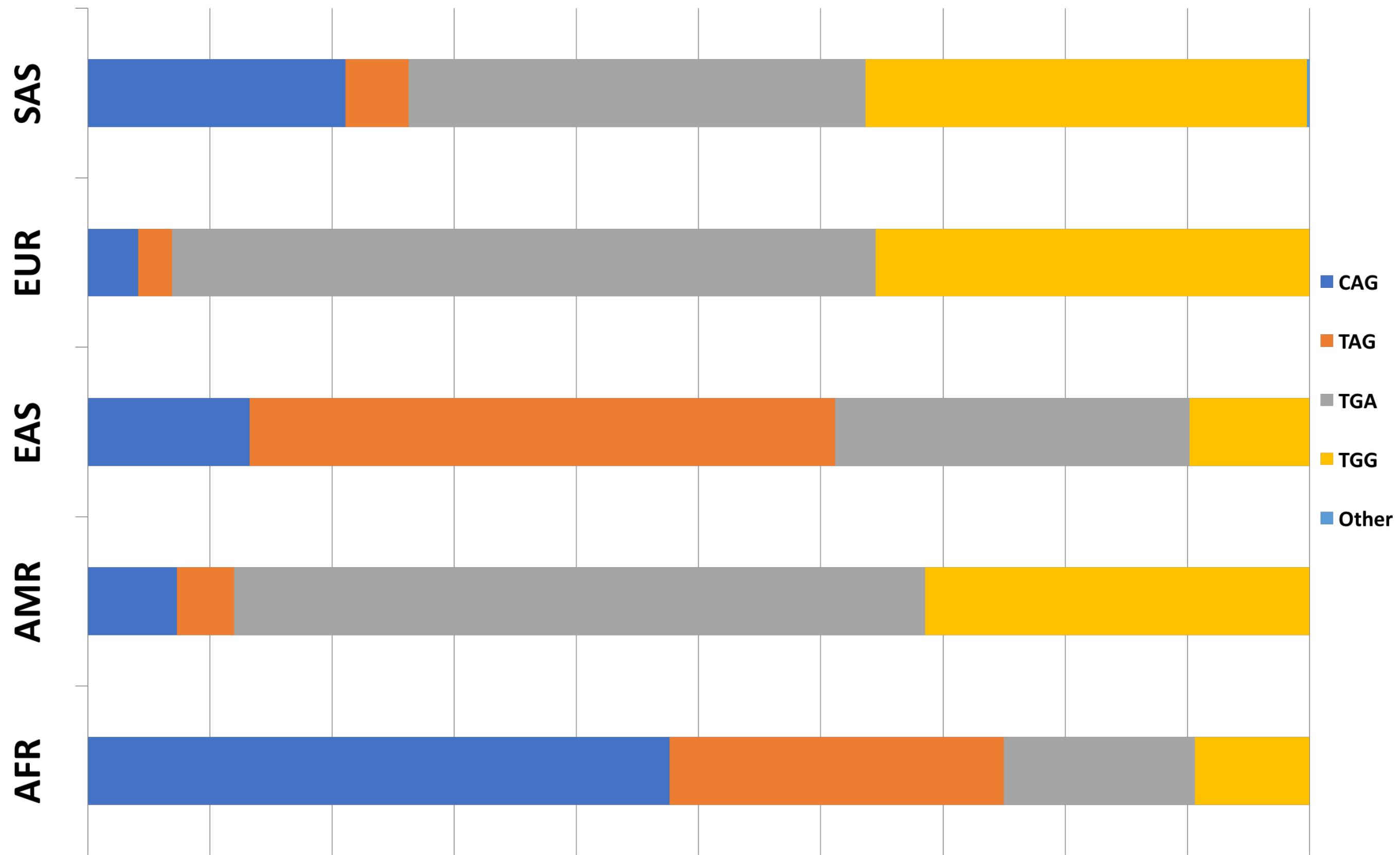
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52

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GD
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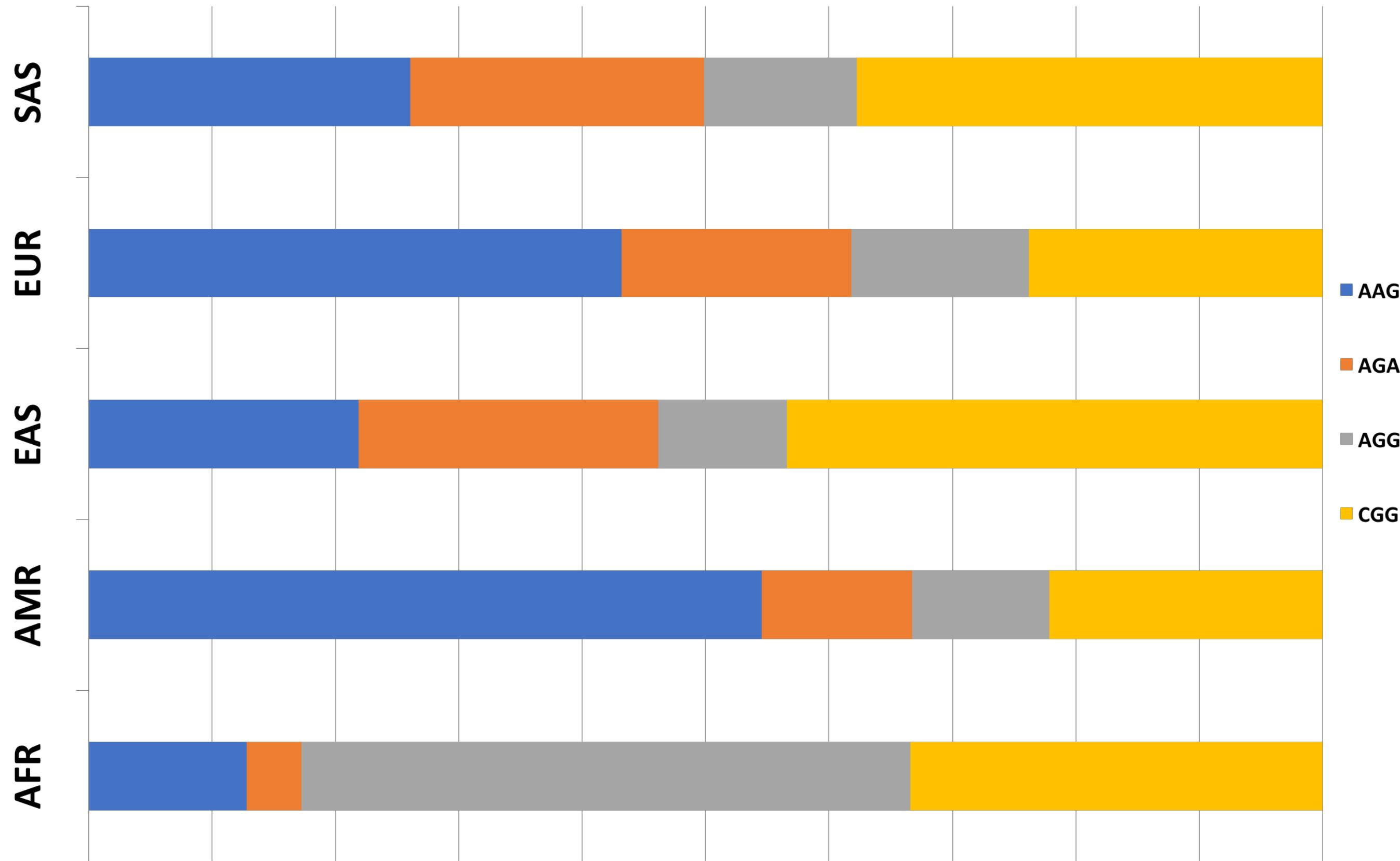
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27

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GD
0.664



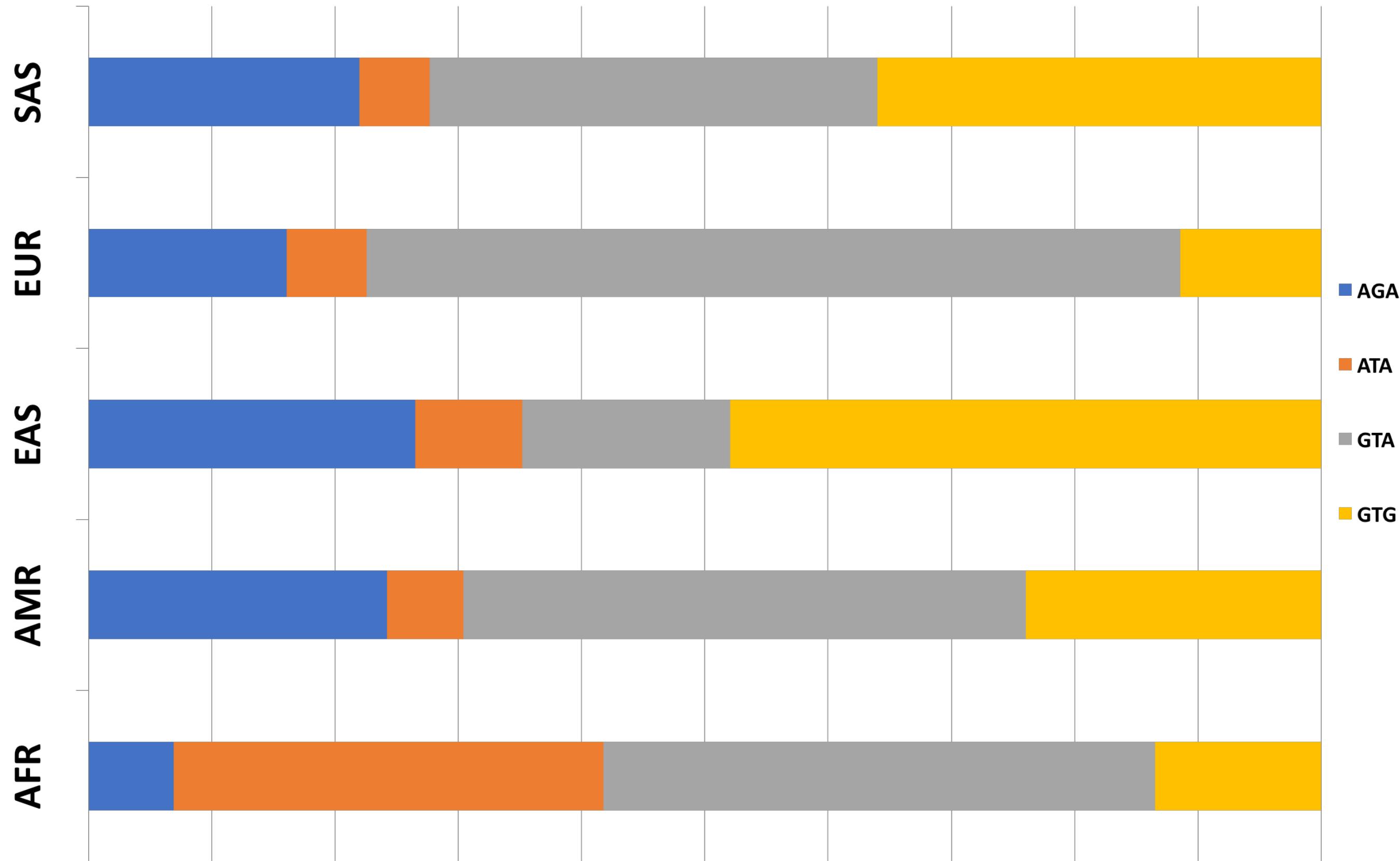
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16

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GD
0.631



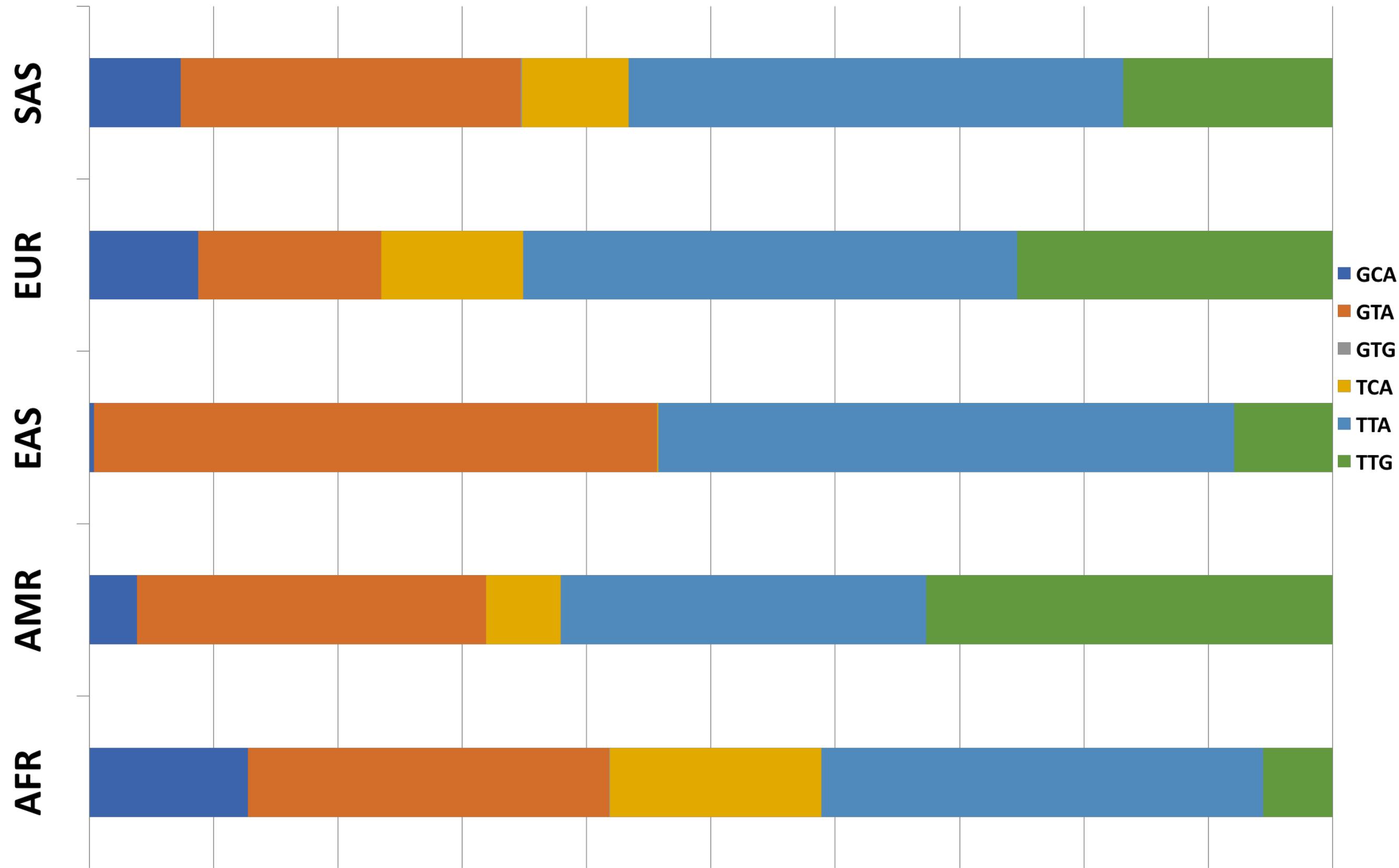
10qC

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90

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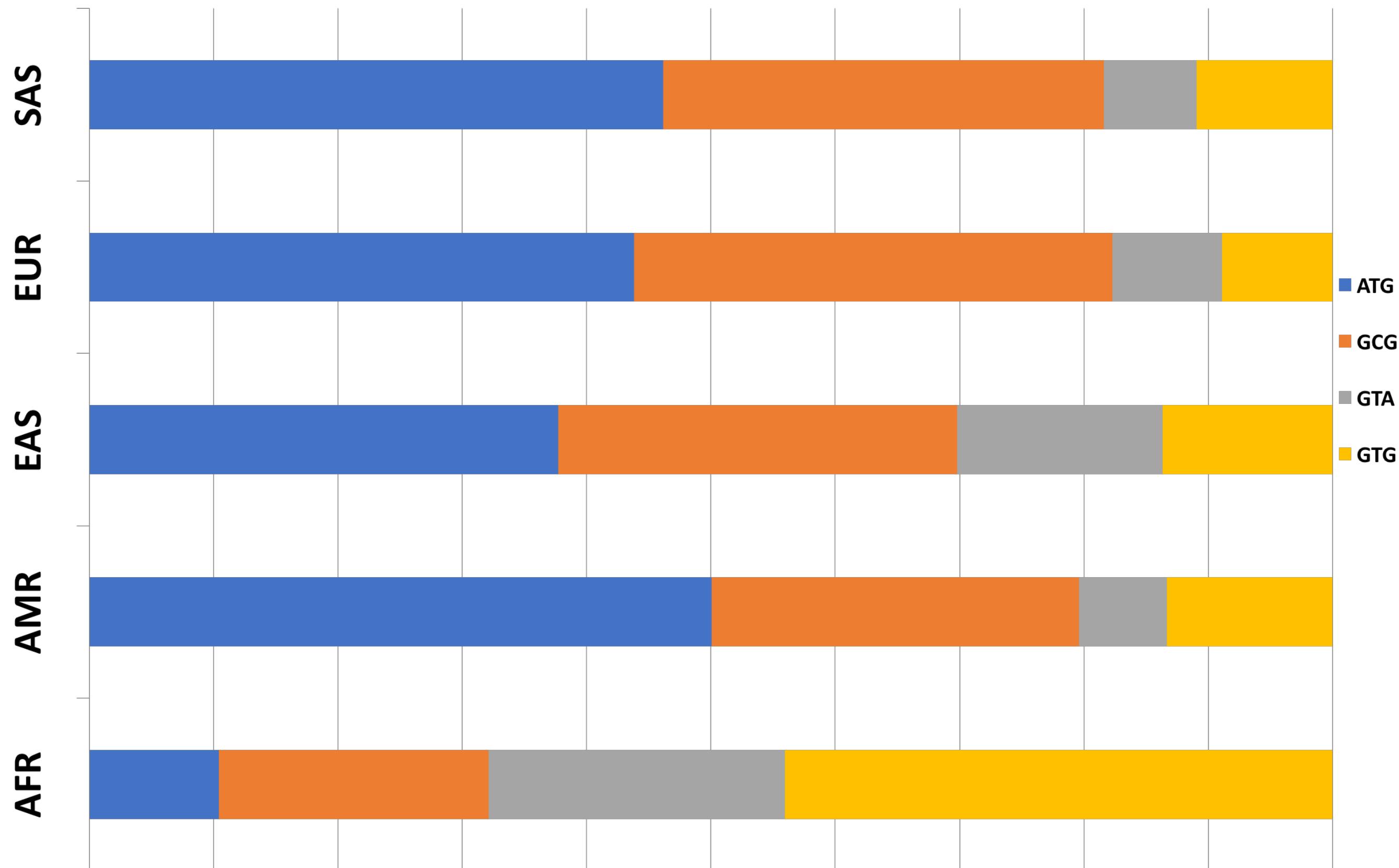
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73

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rs12577507

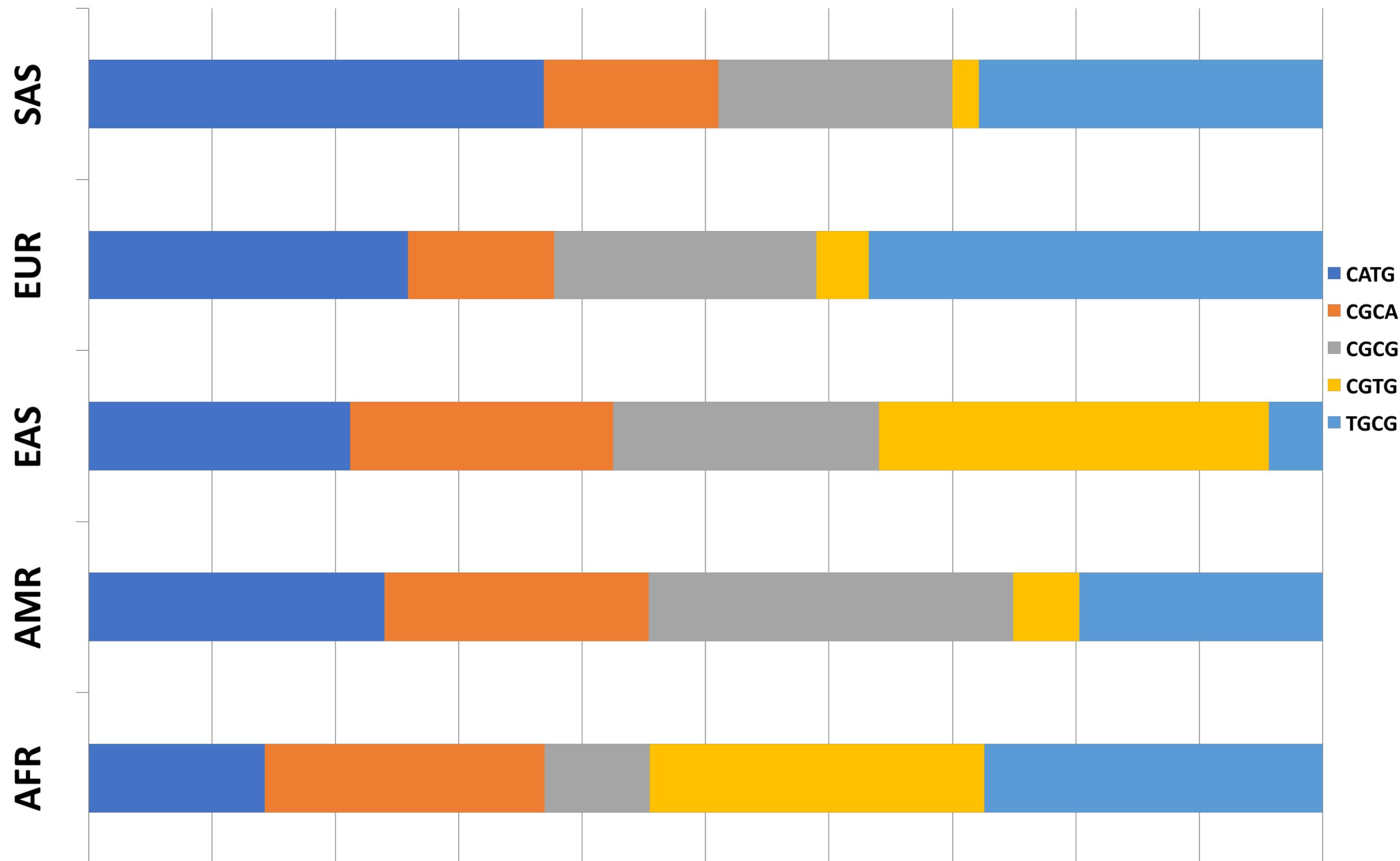
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11pB

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20

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0.747

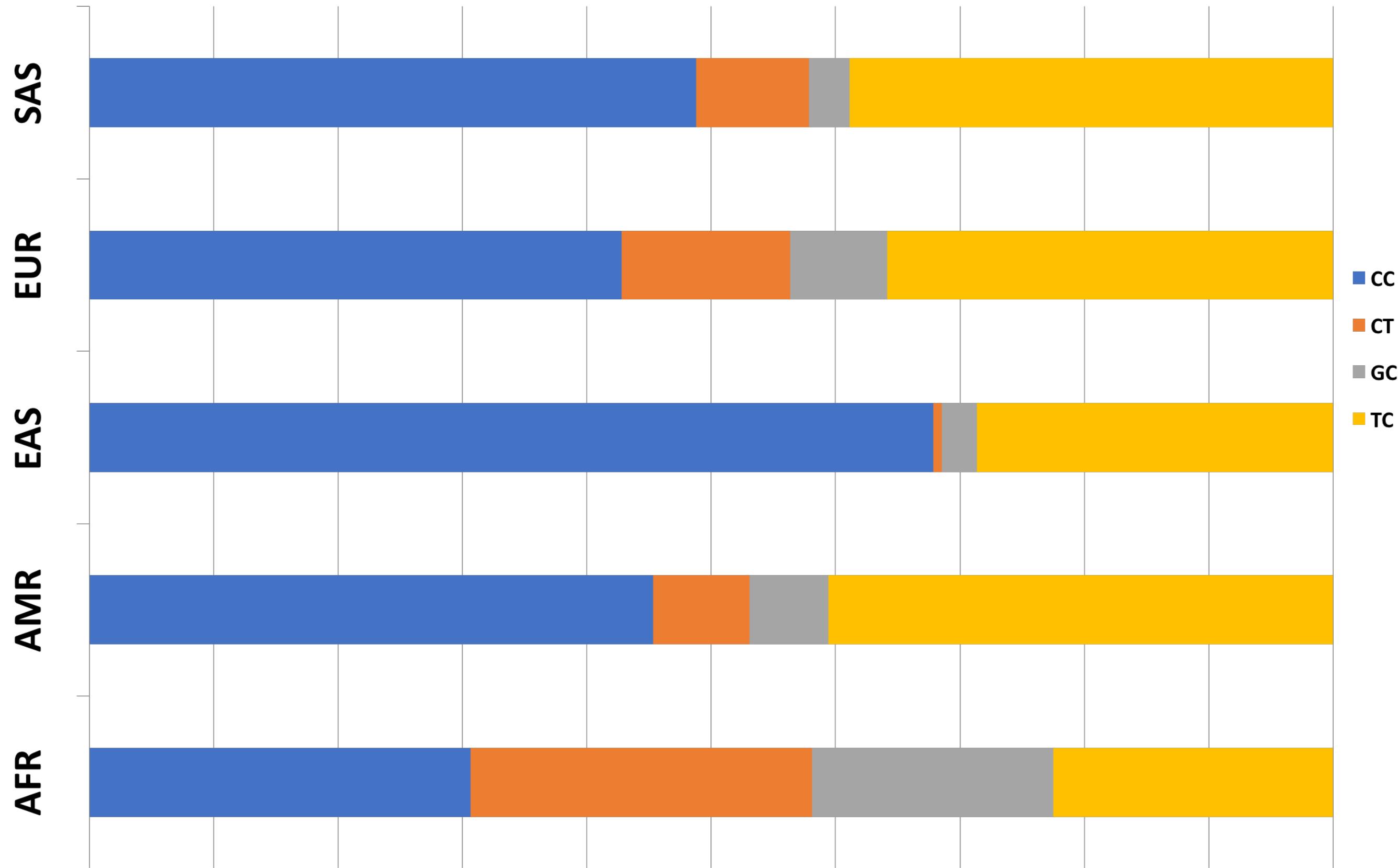
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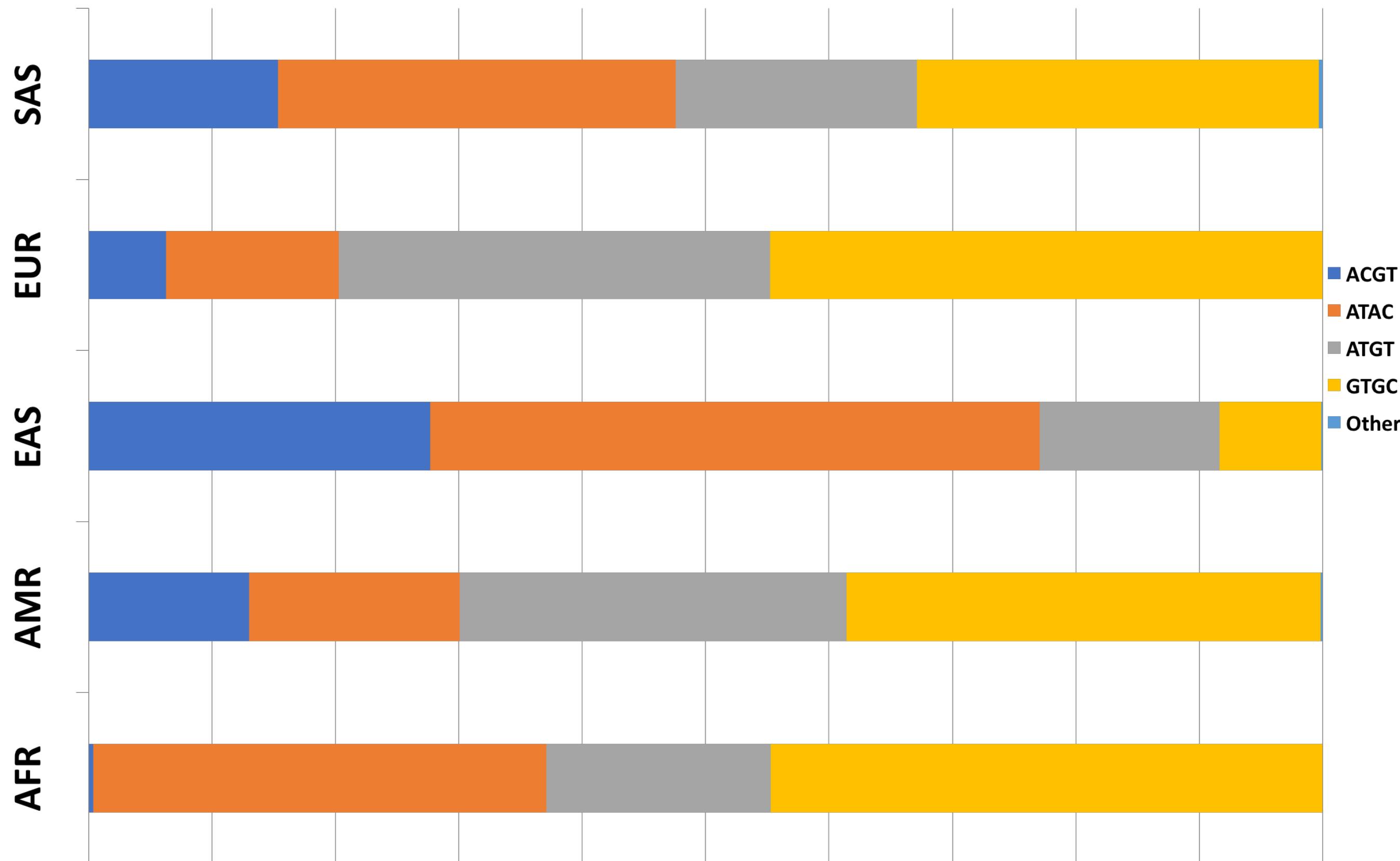
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11qB

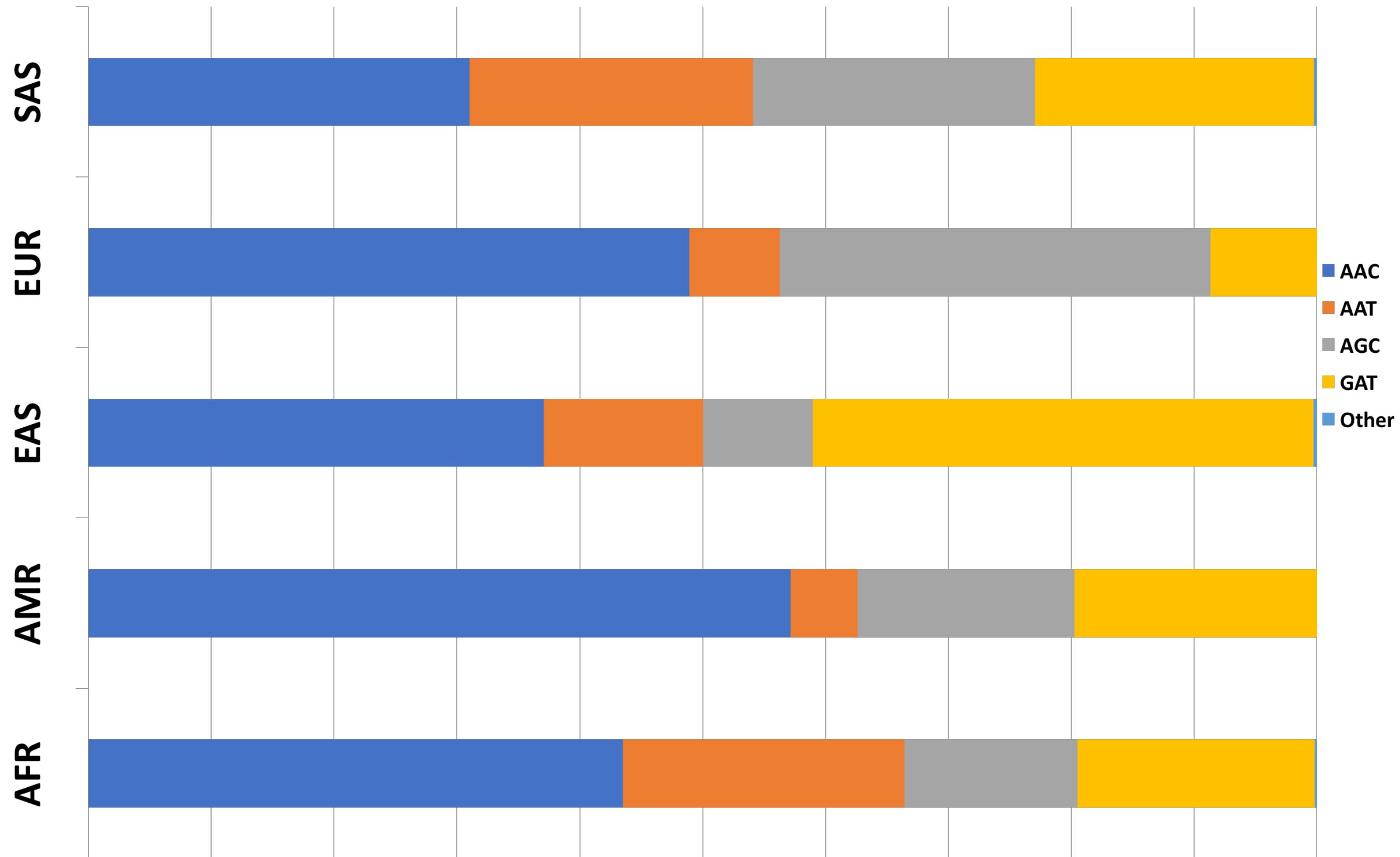
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80

rs7943404
rs3758860
rs3758861
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11qC

11:129277278-129277314

36rs9787807
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0.665

12pA

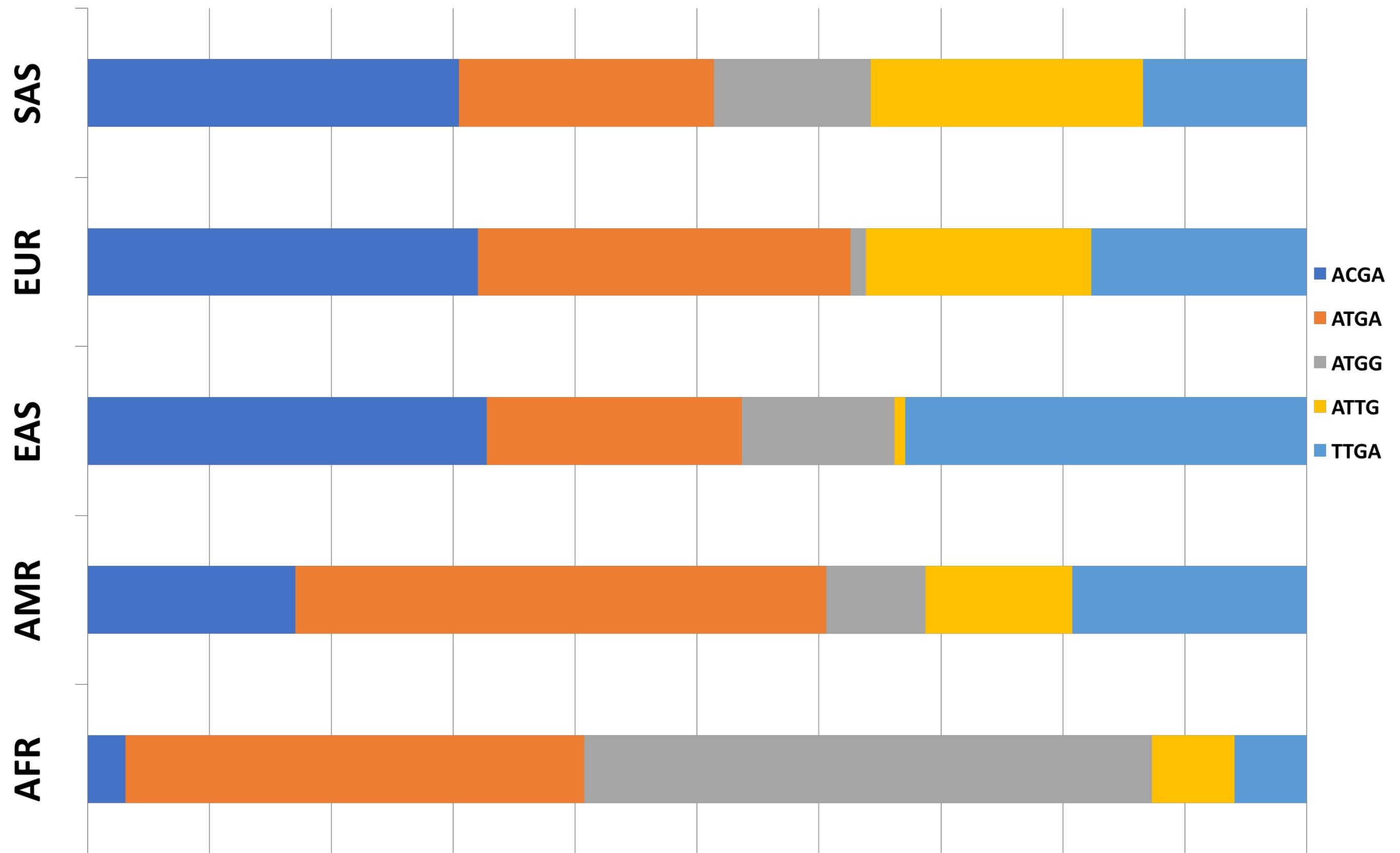
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86

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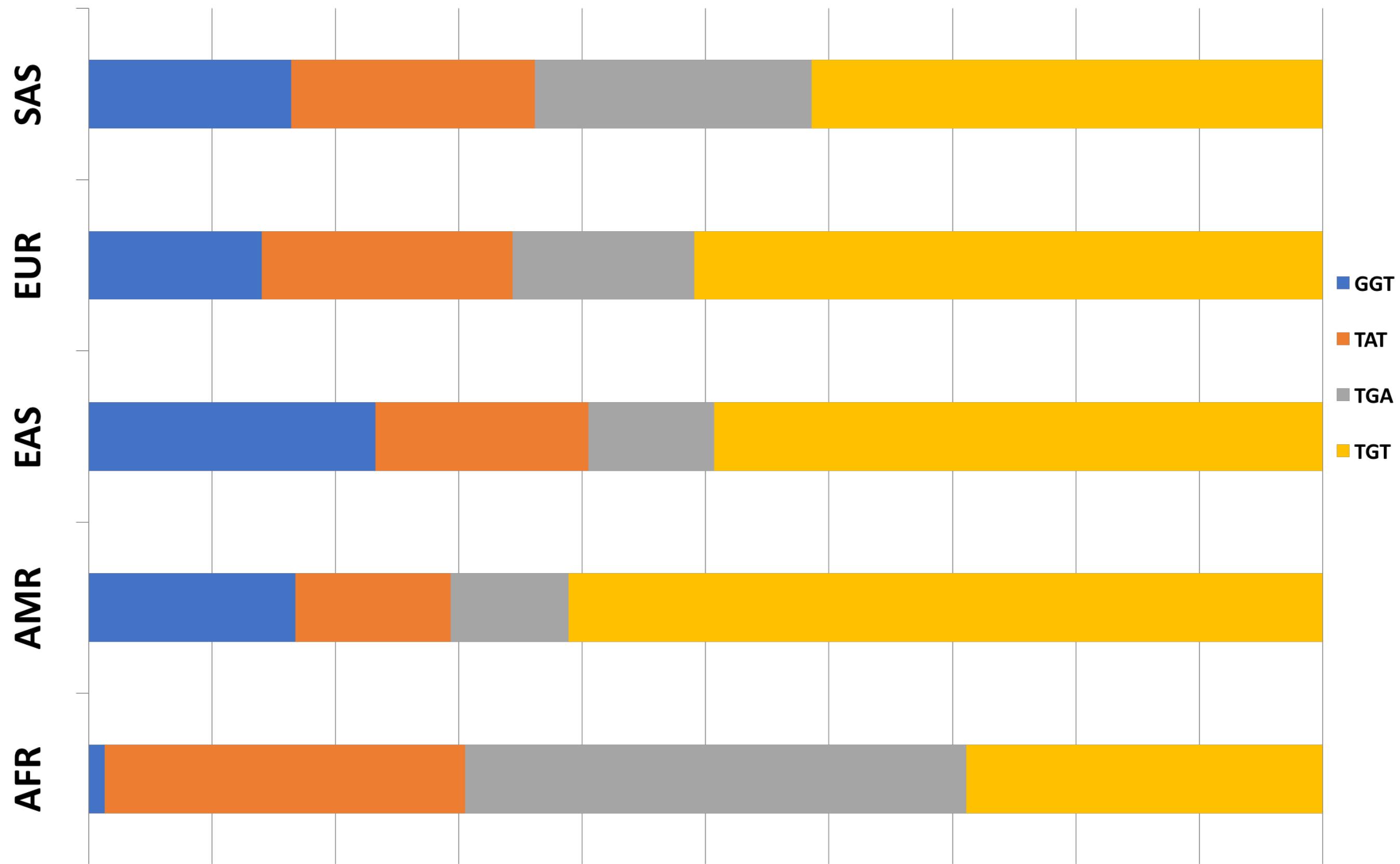
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25

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GD
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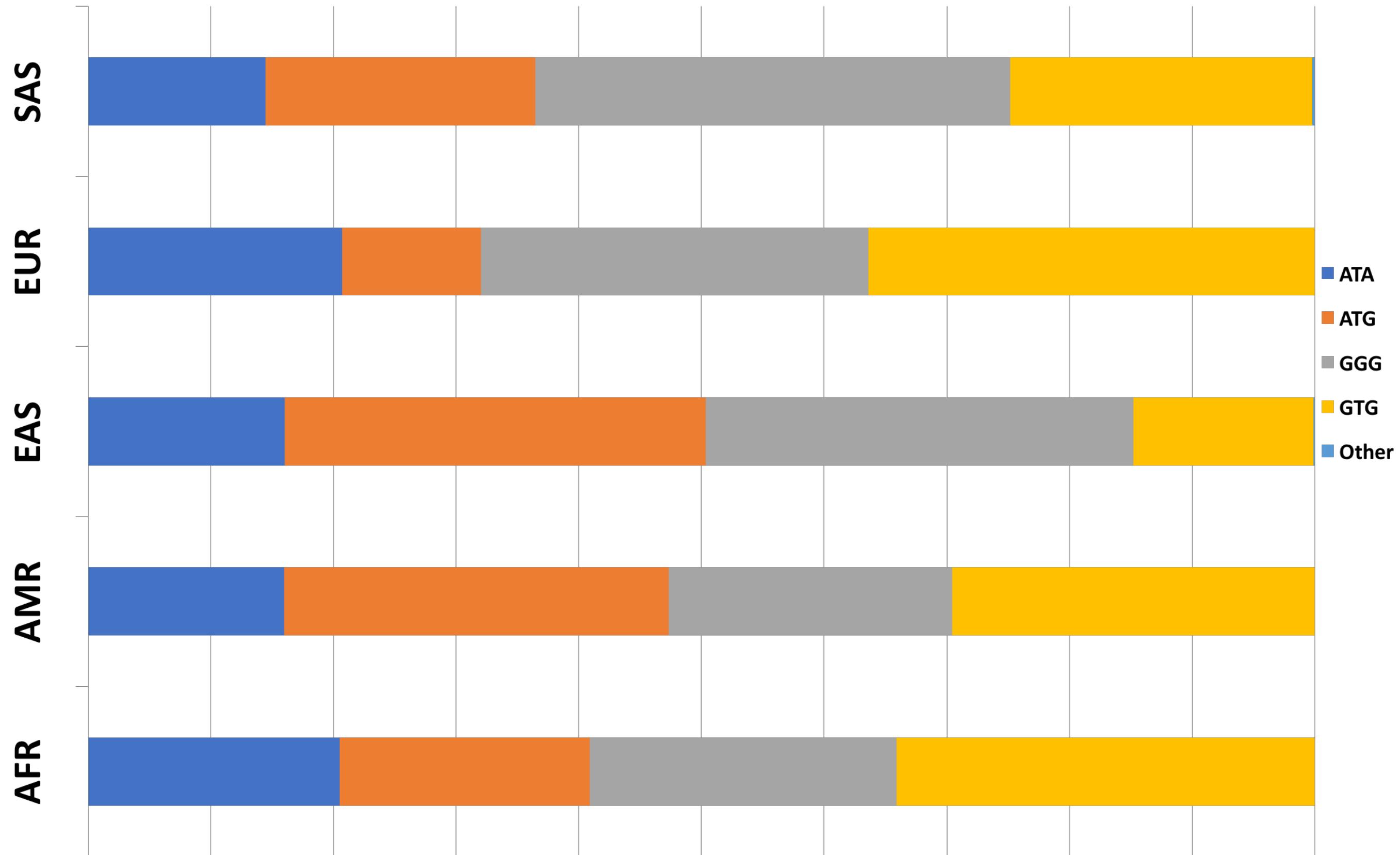
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33

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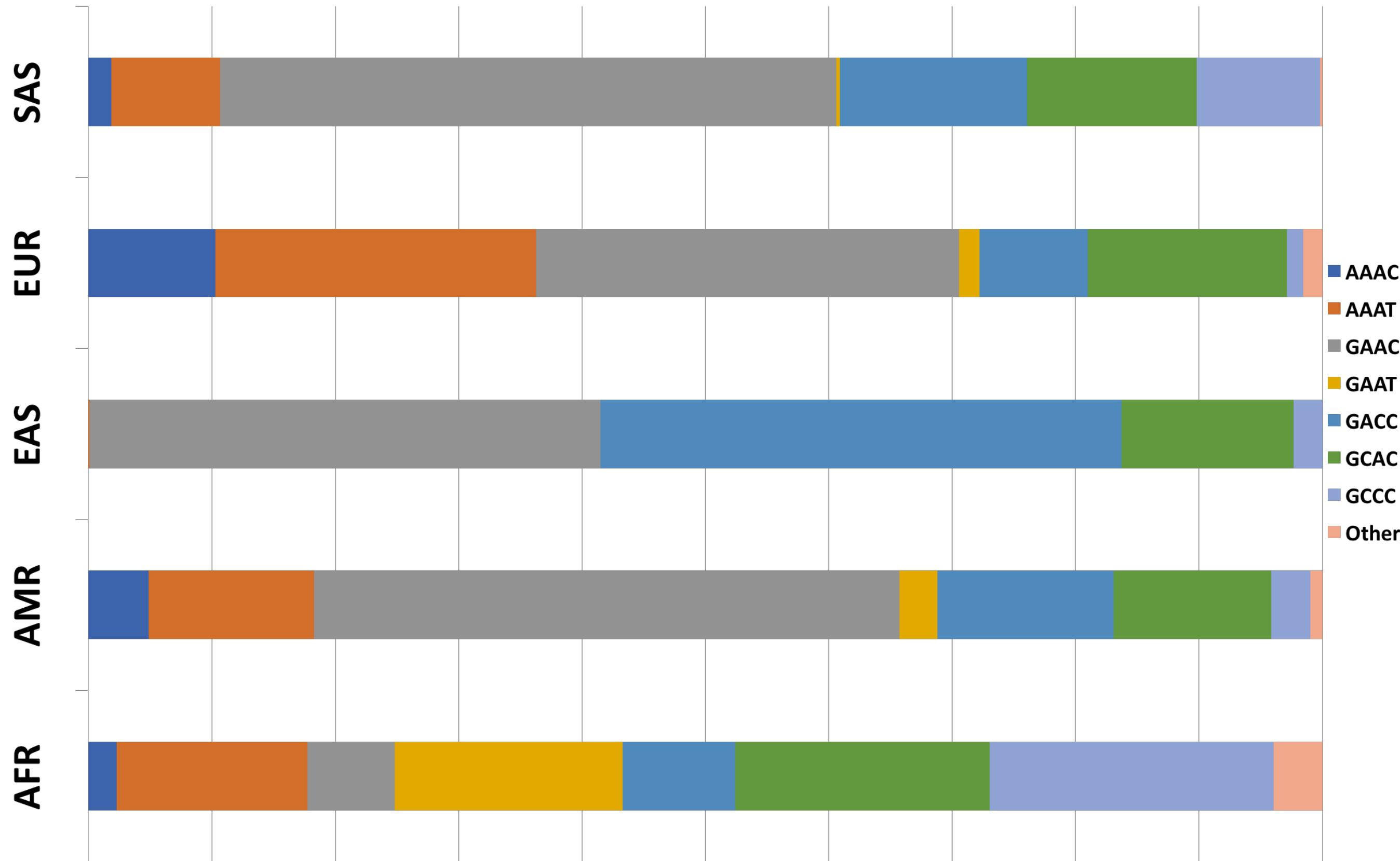
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12qB

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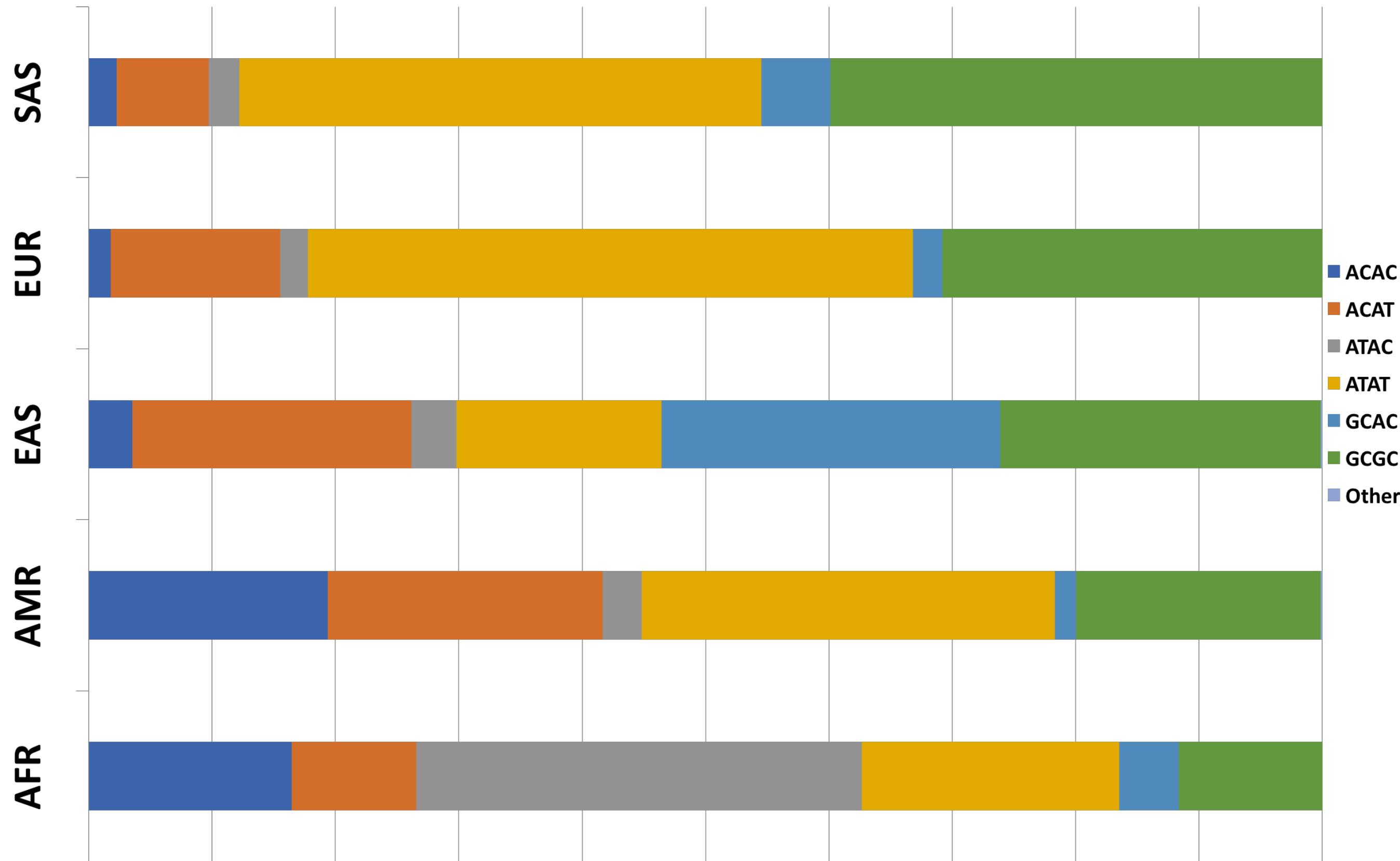
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12qC

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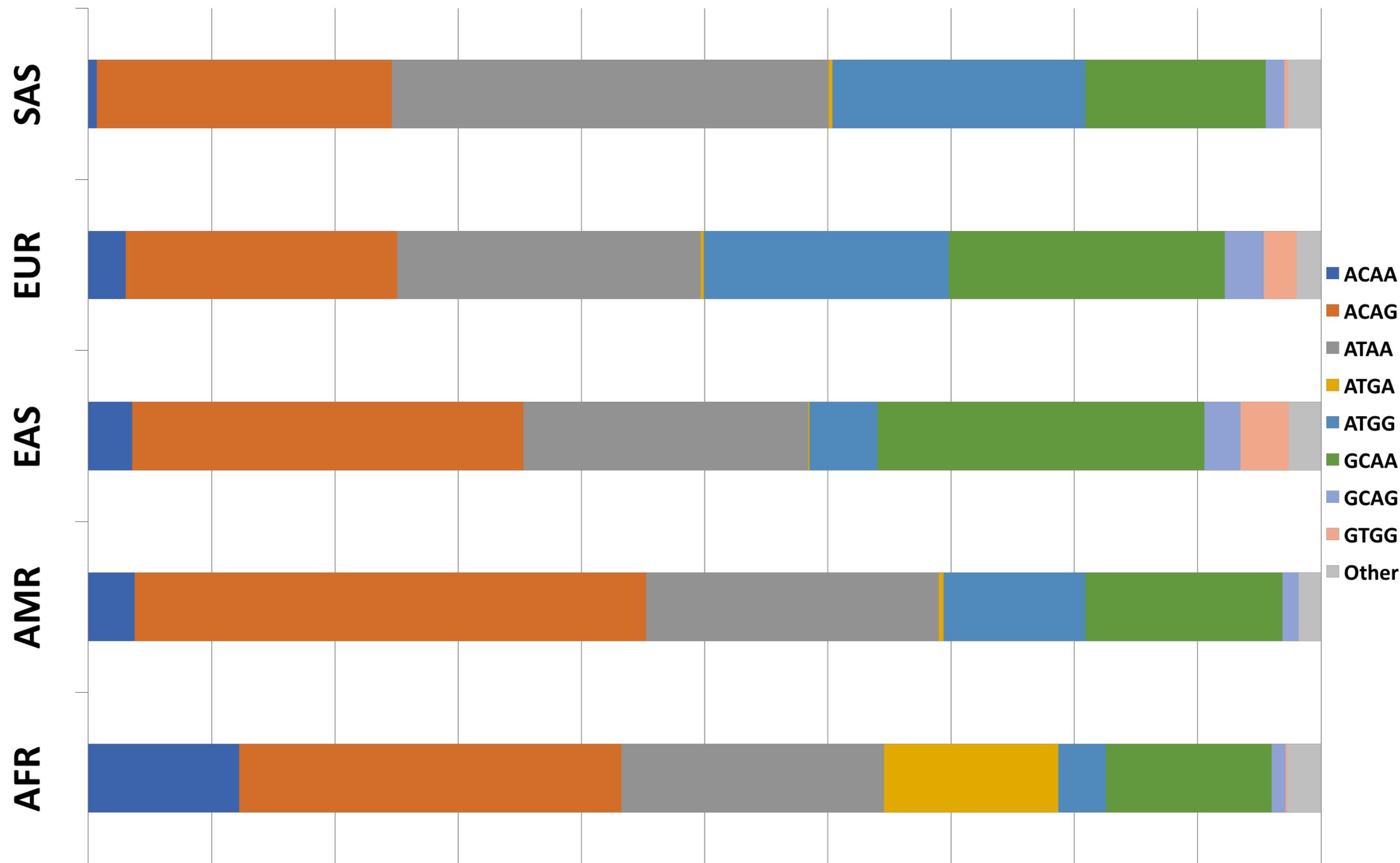
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13qA

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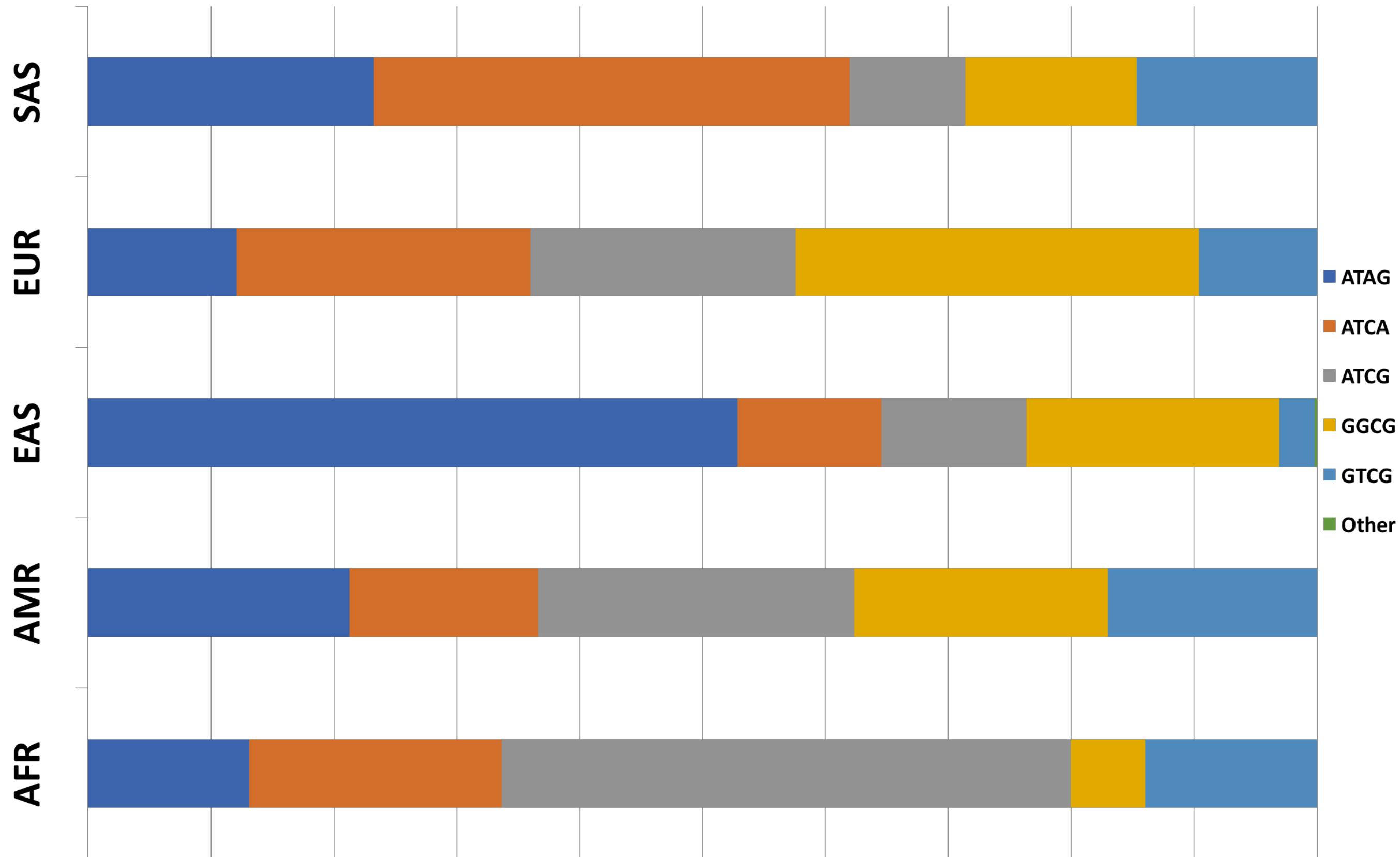
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13qB

13:64009606-64009666

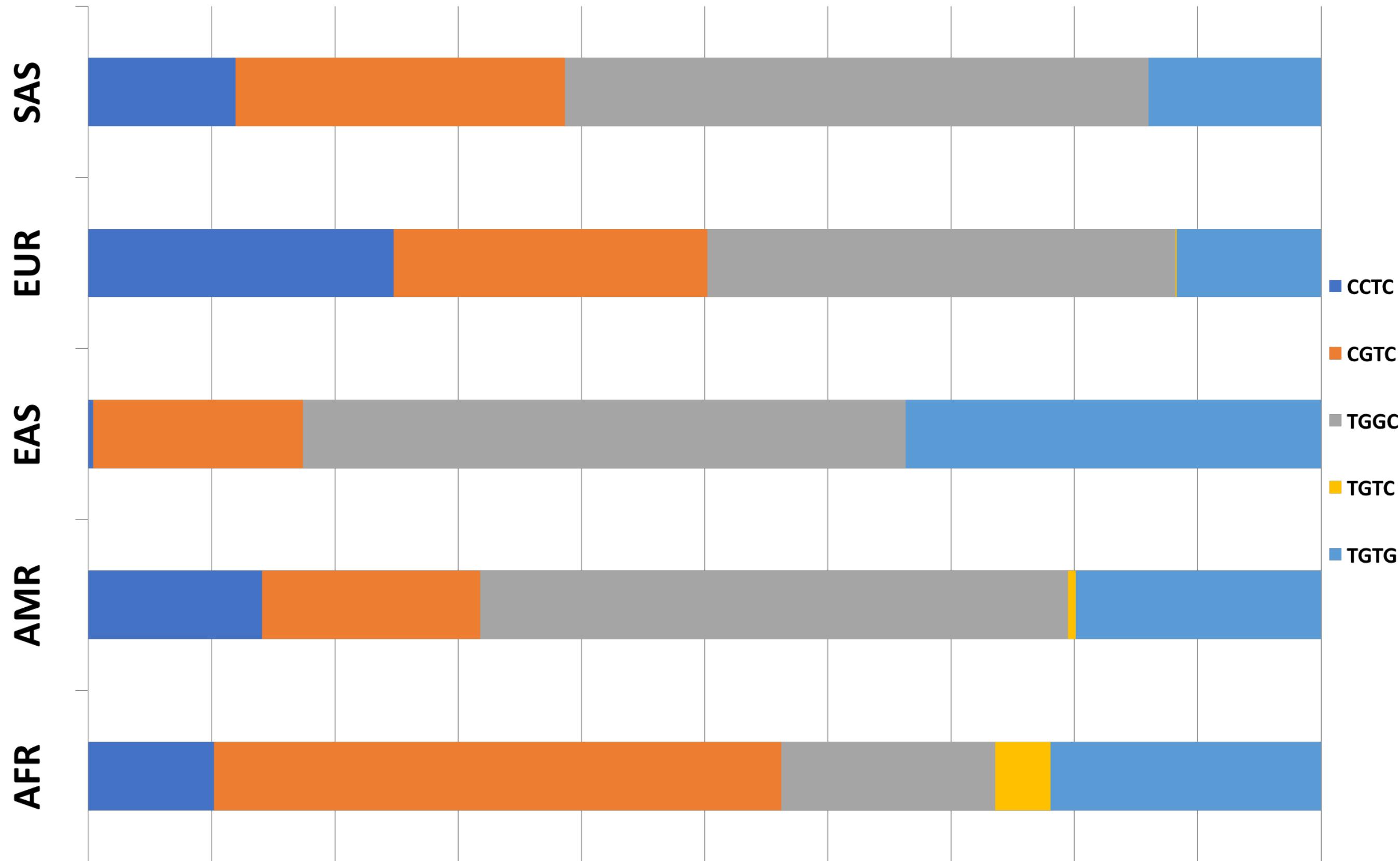
60

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13qC

13:85907662-85907680

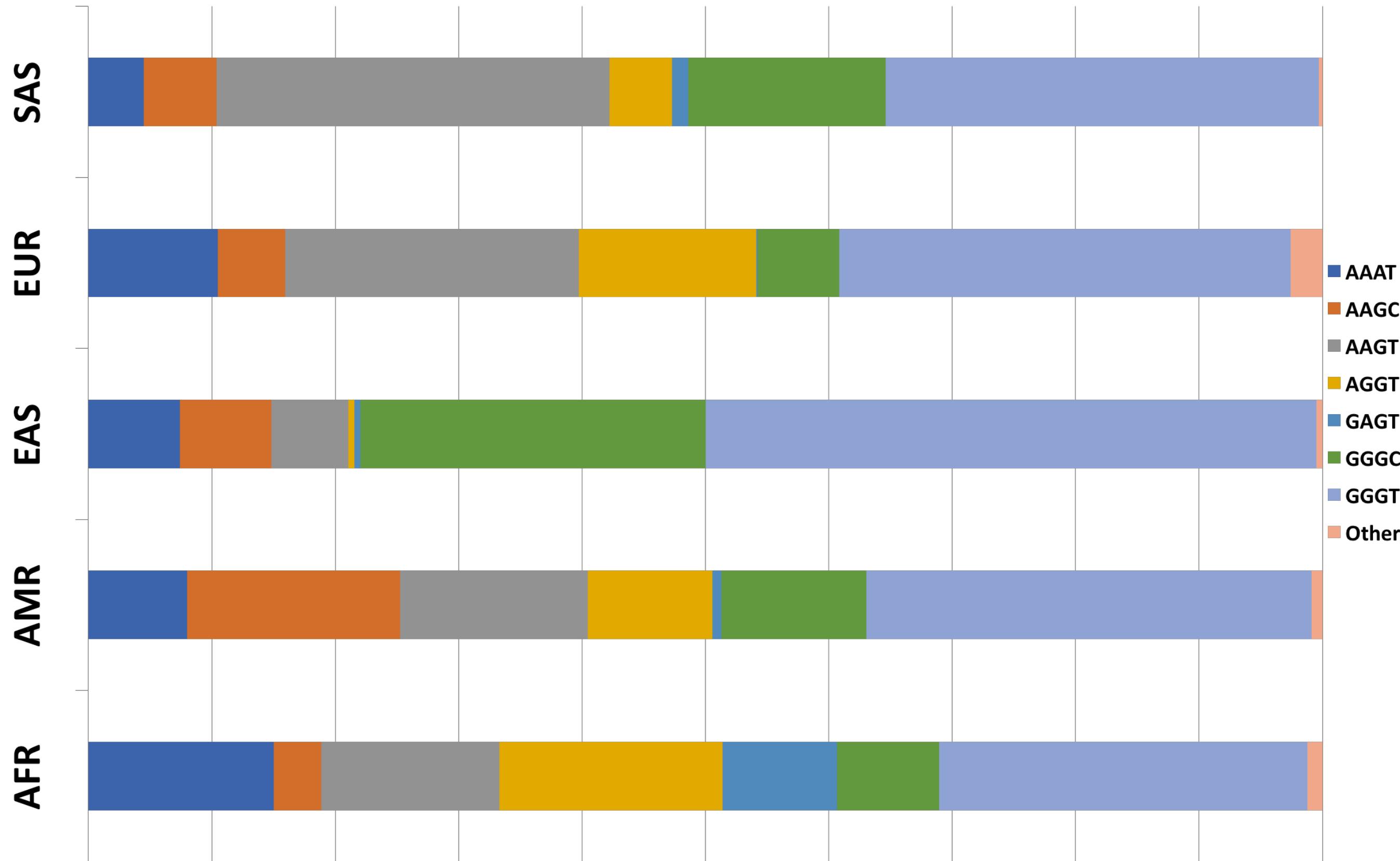
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13qD

13:112087953-112088020

67

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rs1163851rs2528755
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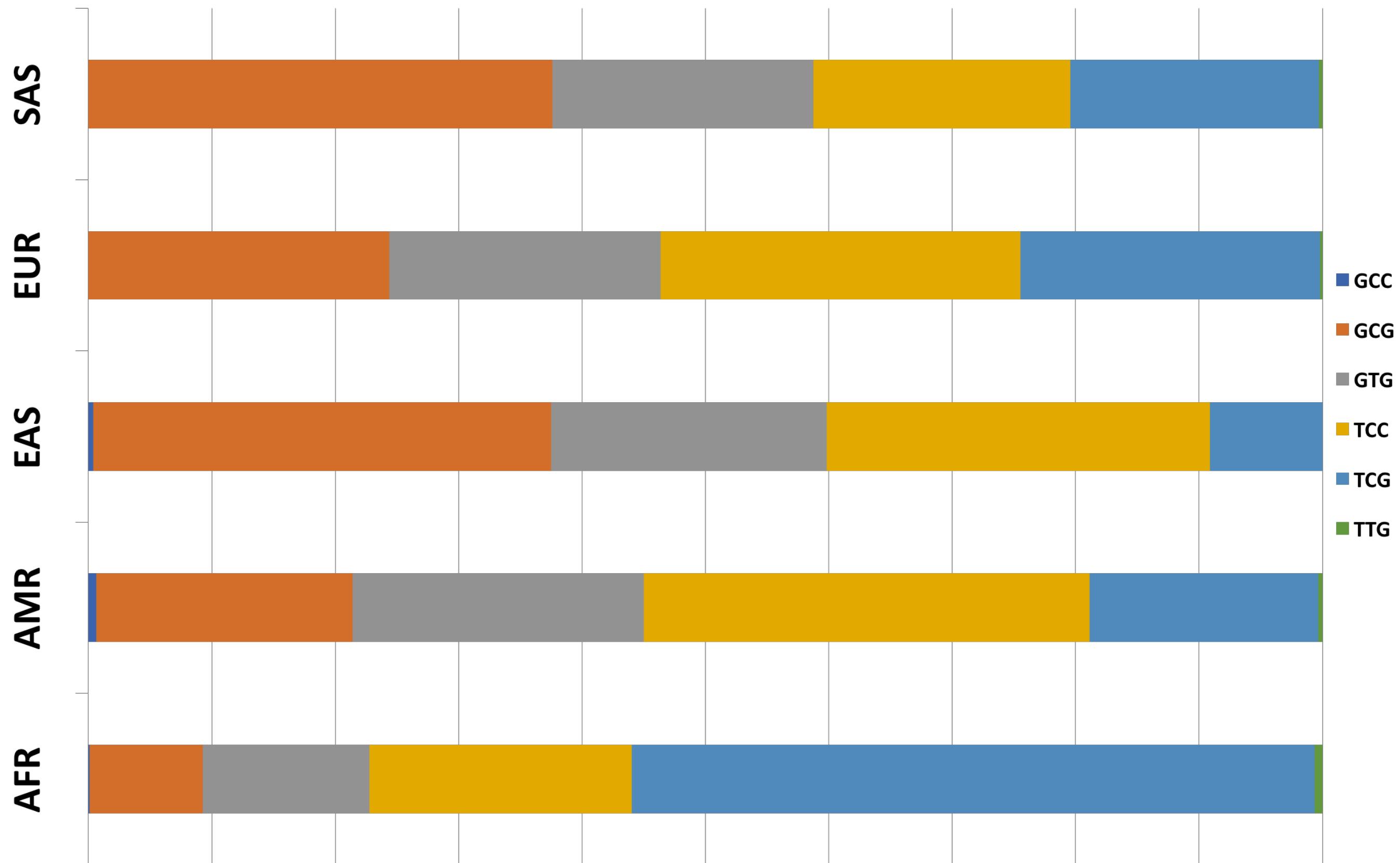
14qA

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26

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GD
0.695



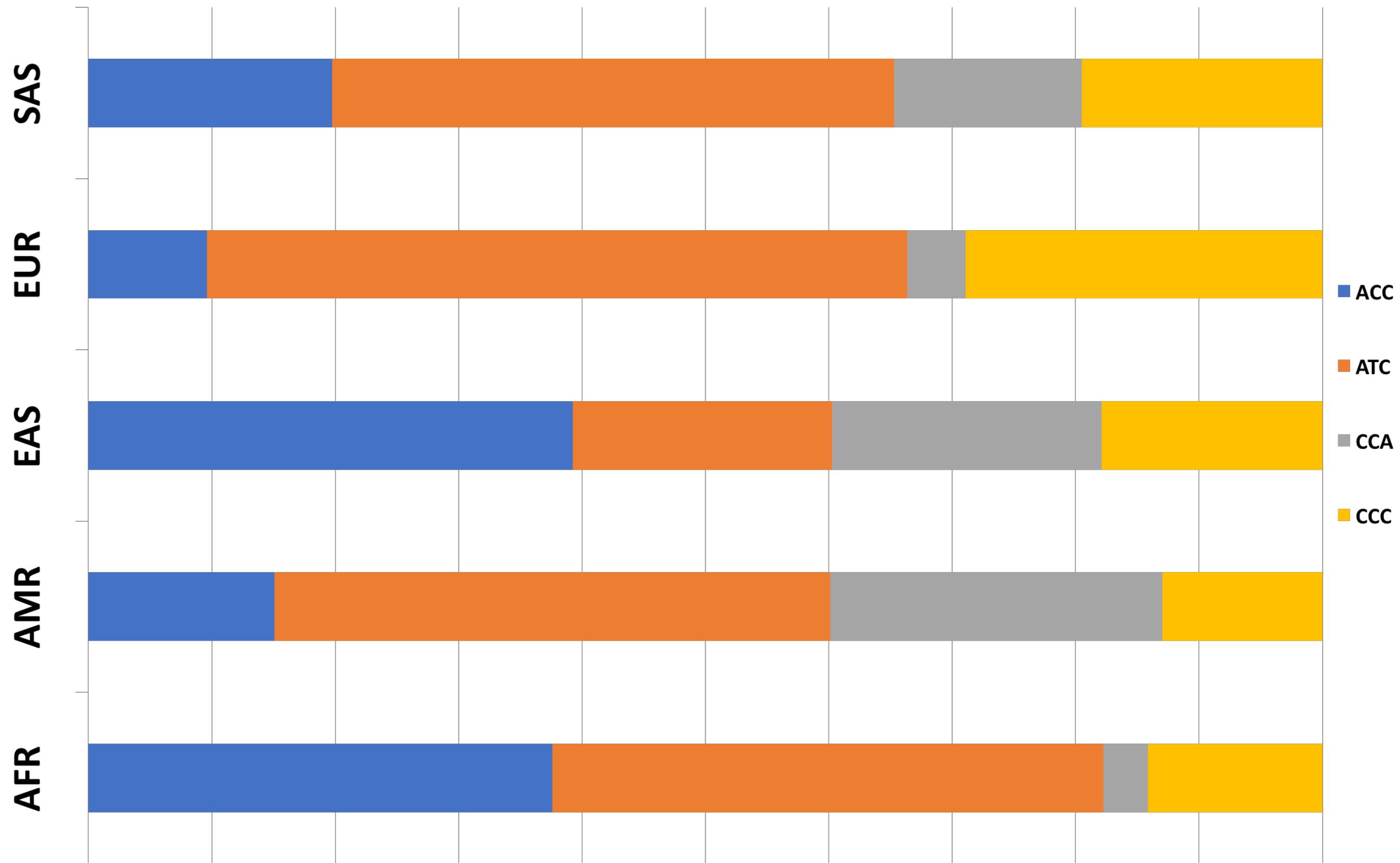
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77

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GD
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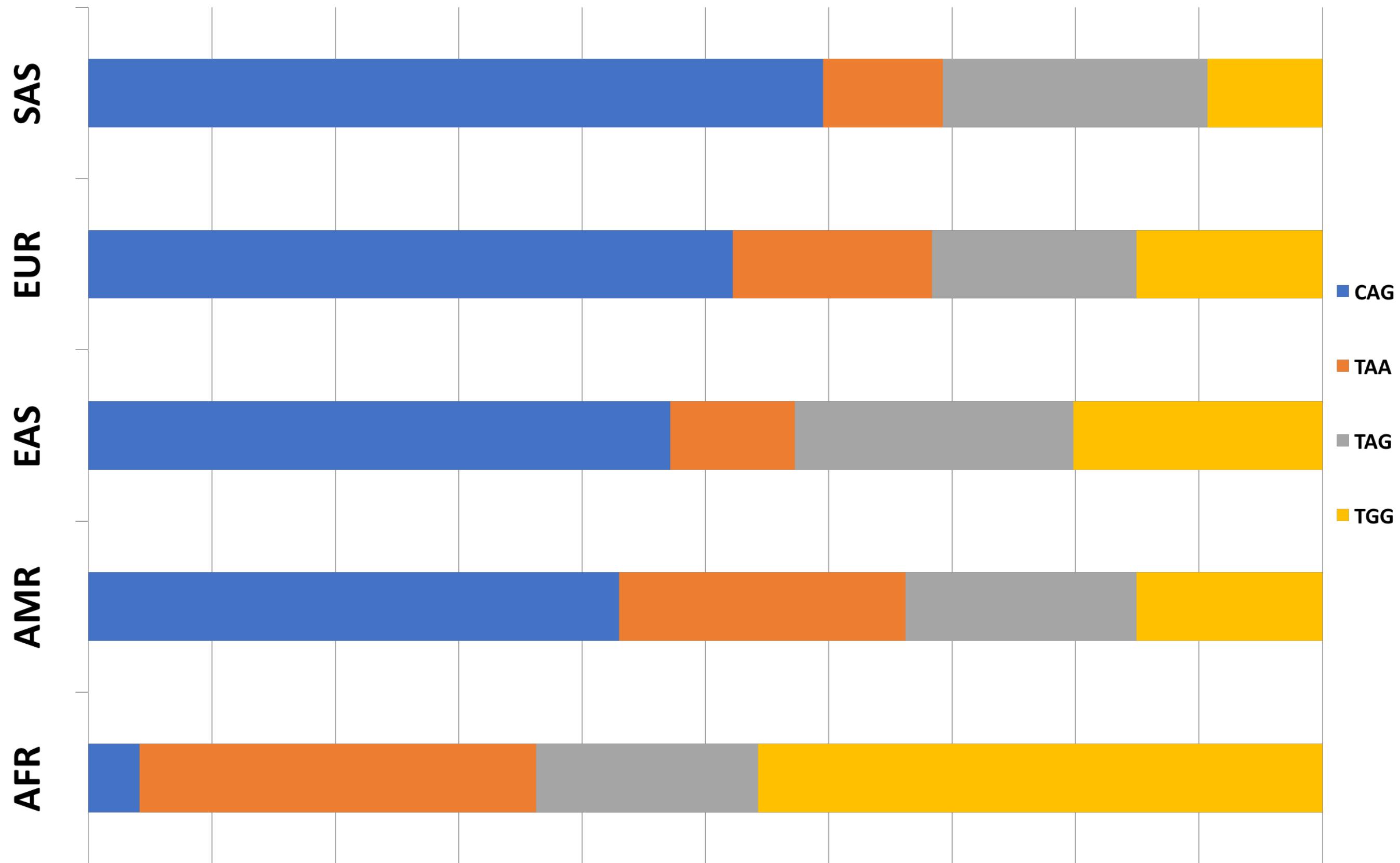
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54

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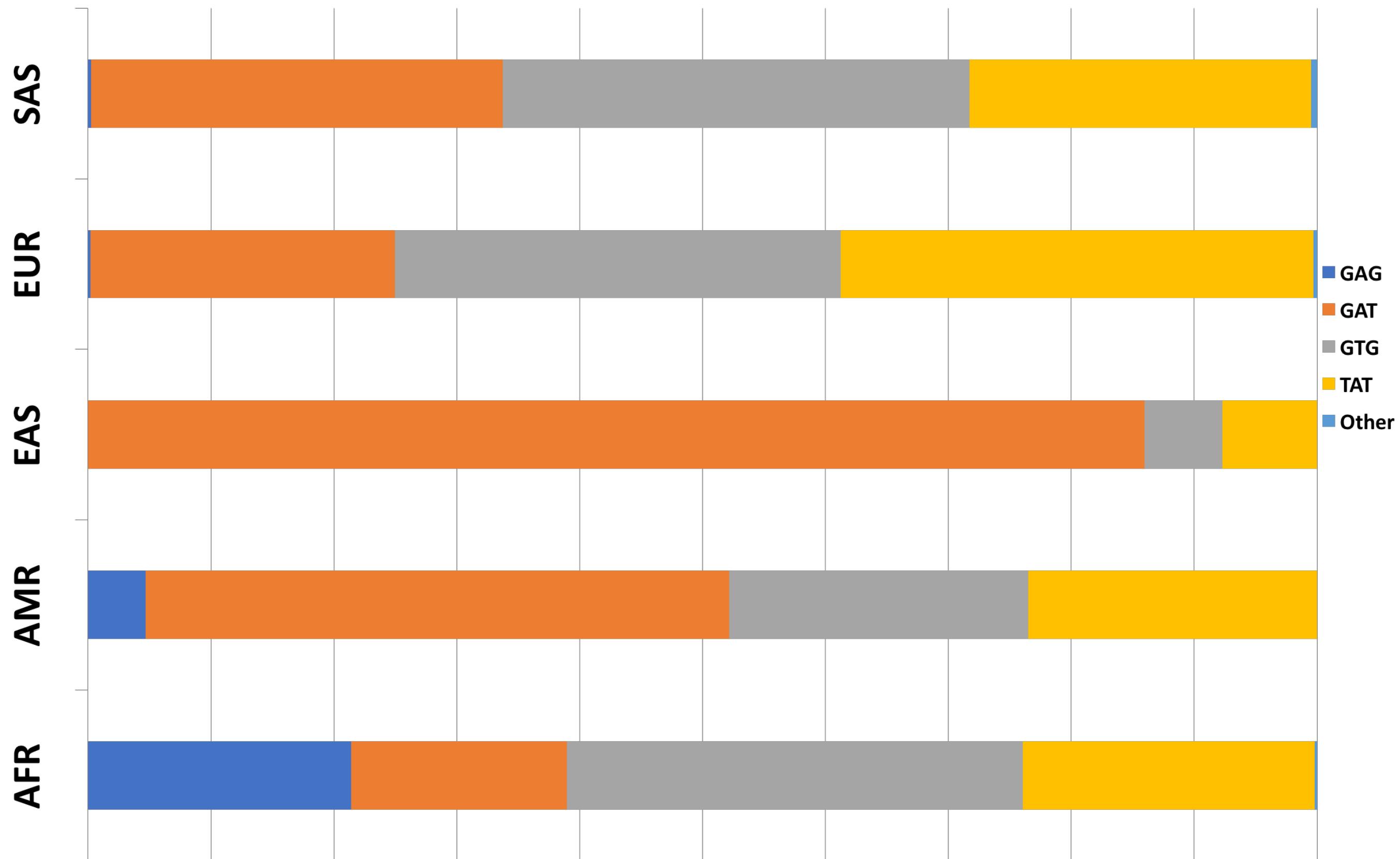
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14qD

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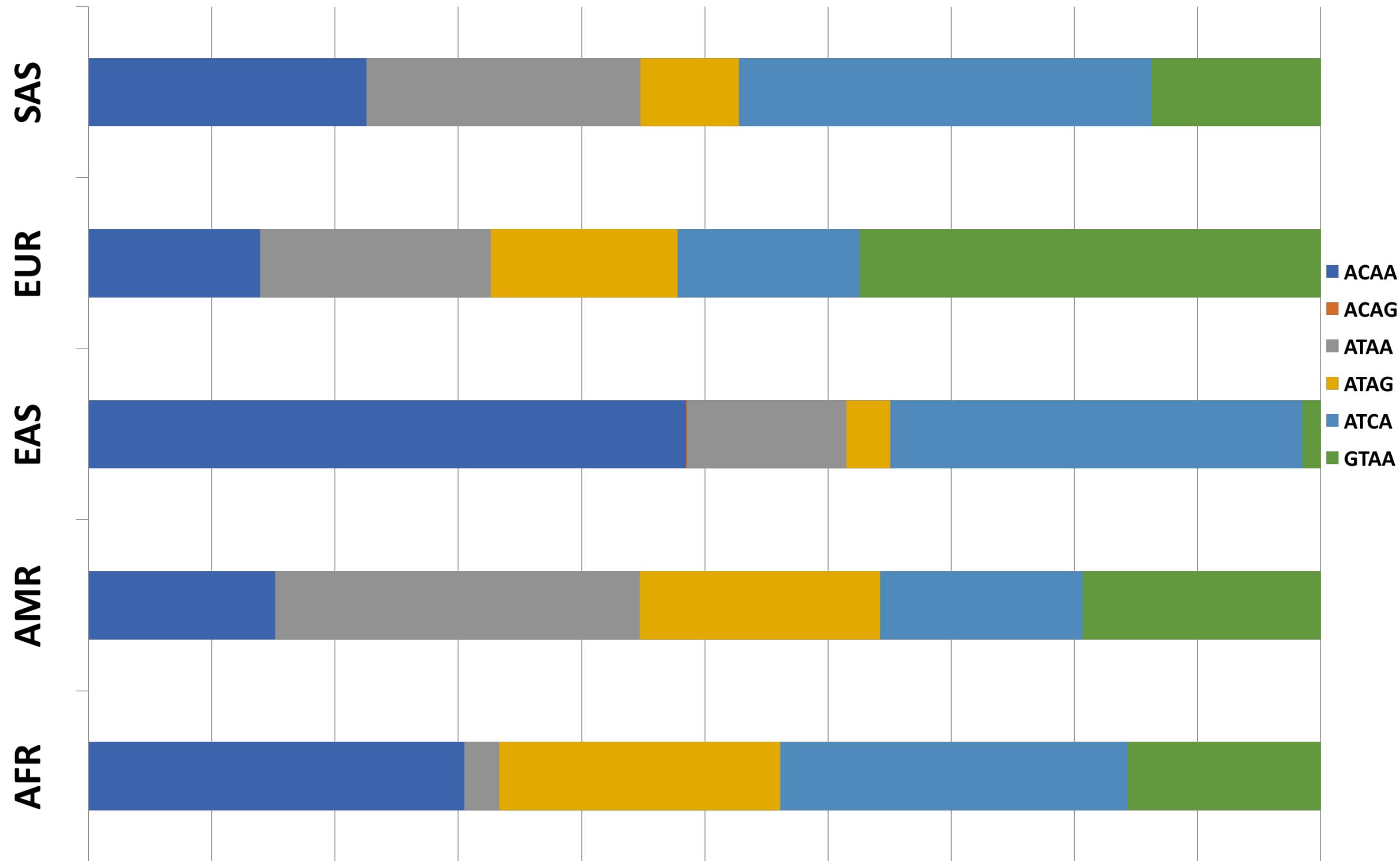
13

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15qA

15:33931230 -33931313

83

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0.731

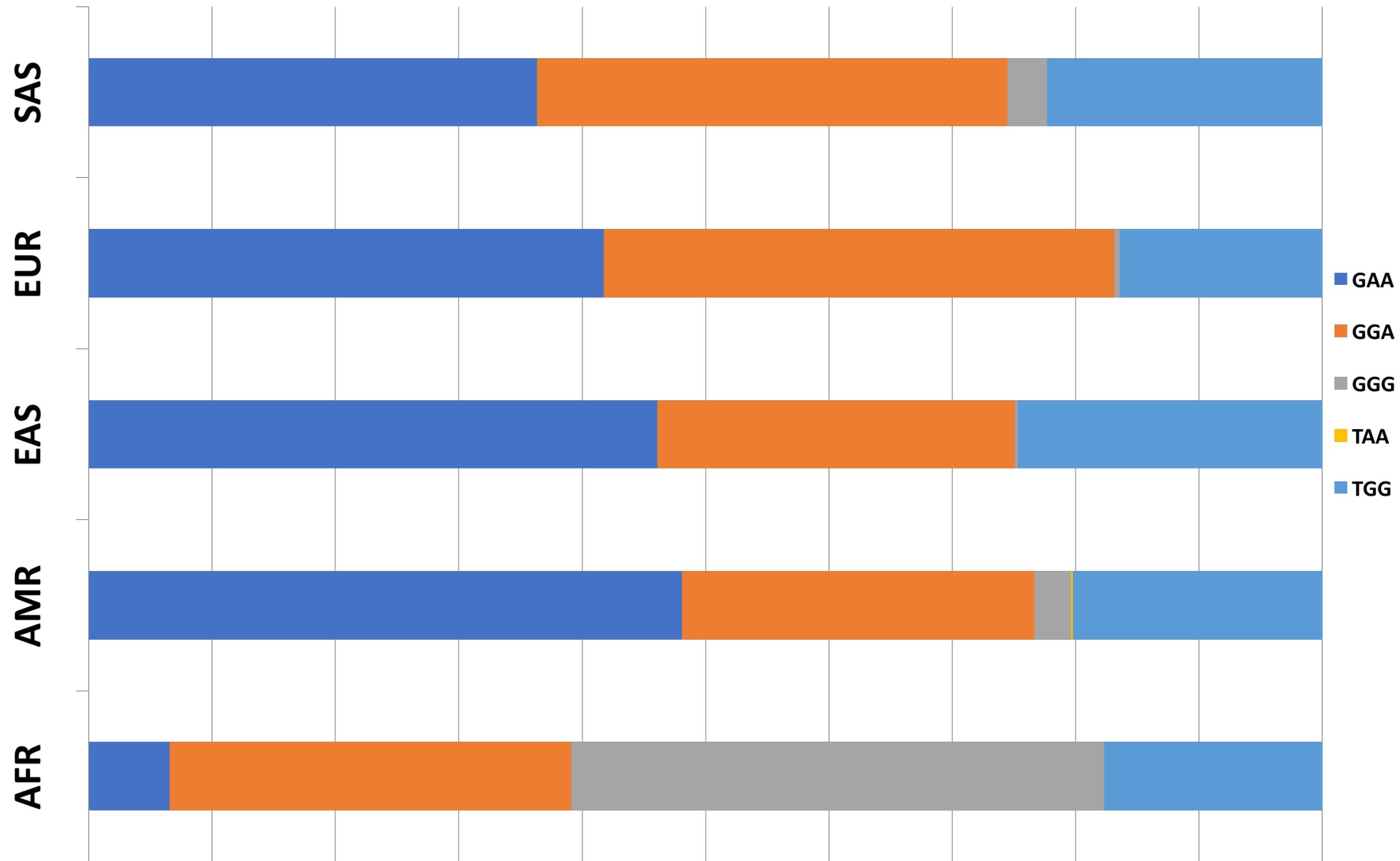
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58

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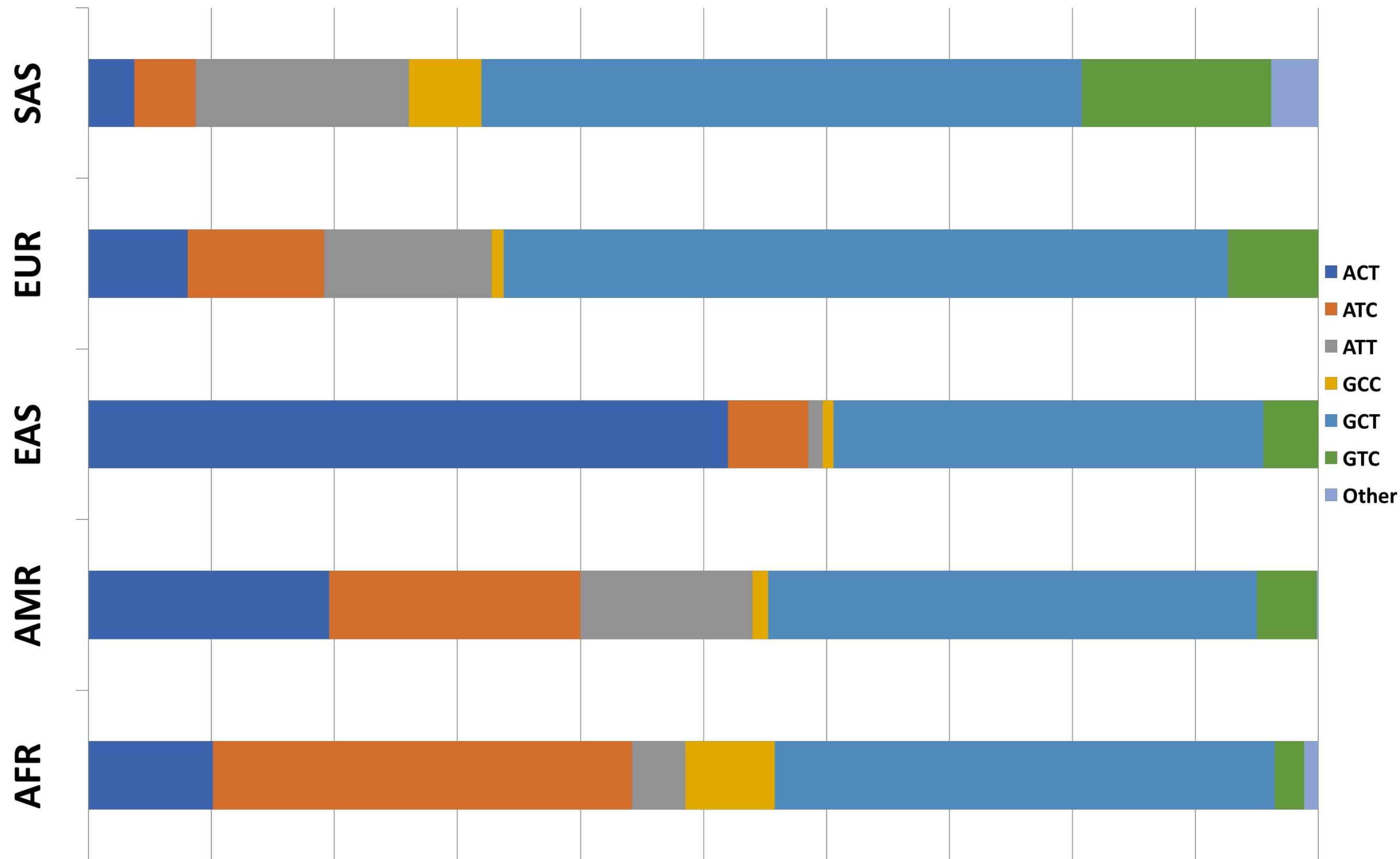
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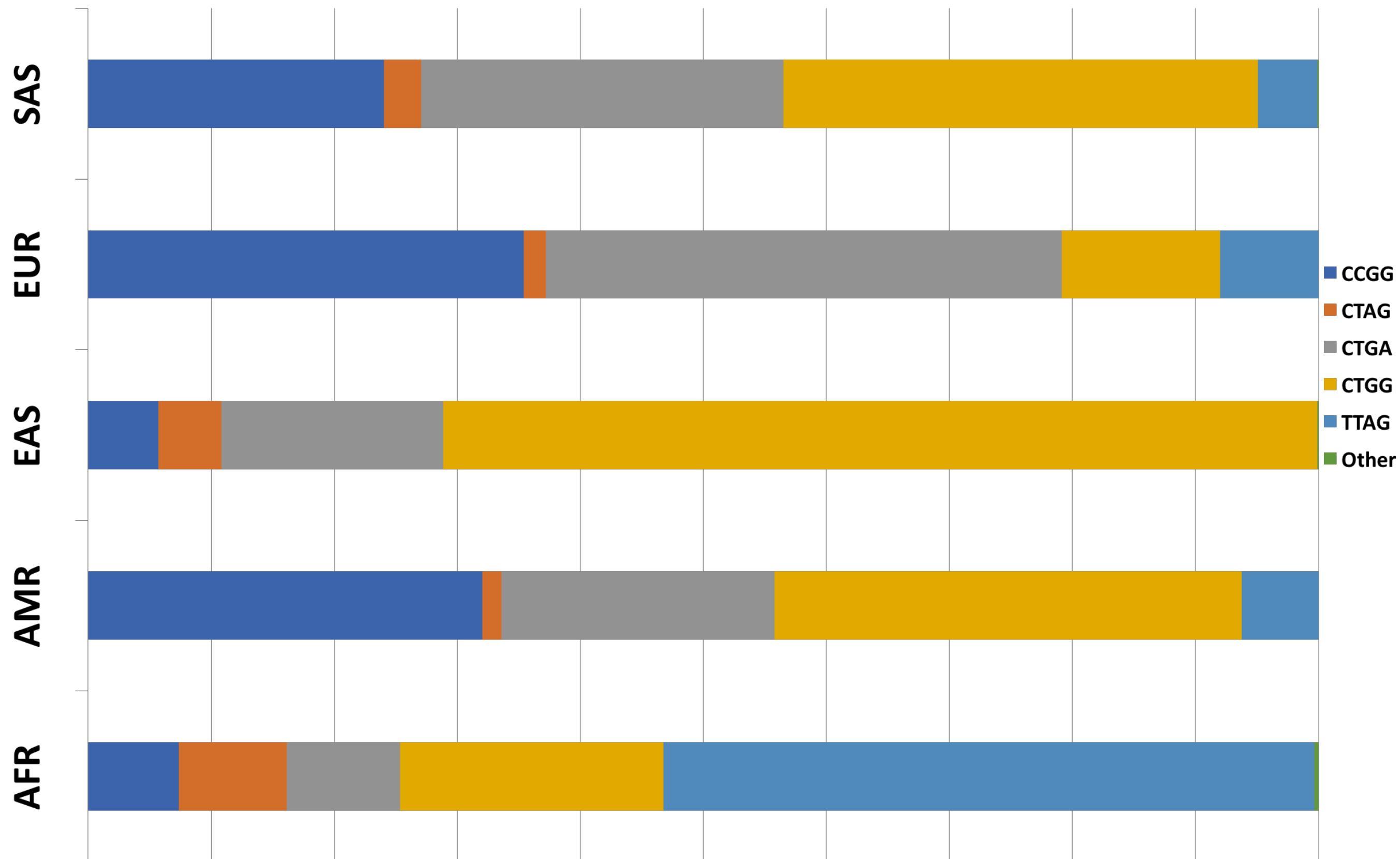
77

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rs2866603
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0.662

15qD

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50

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16pA

16:9675268-9675308



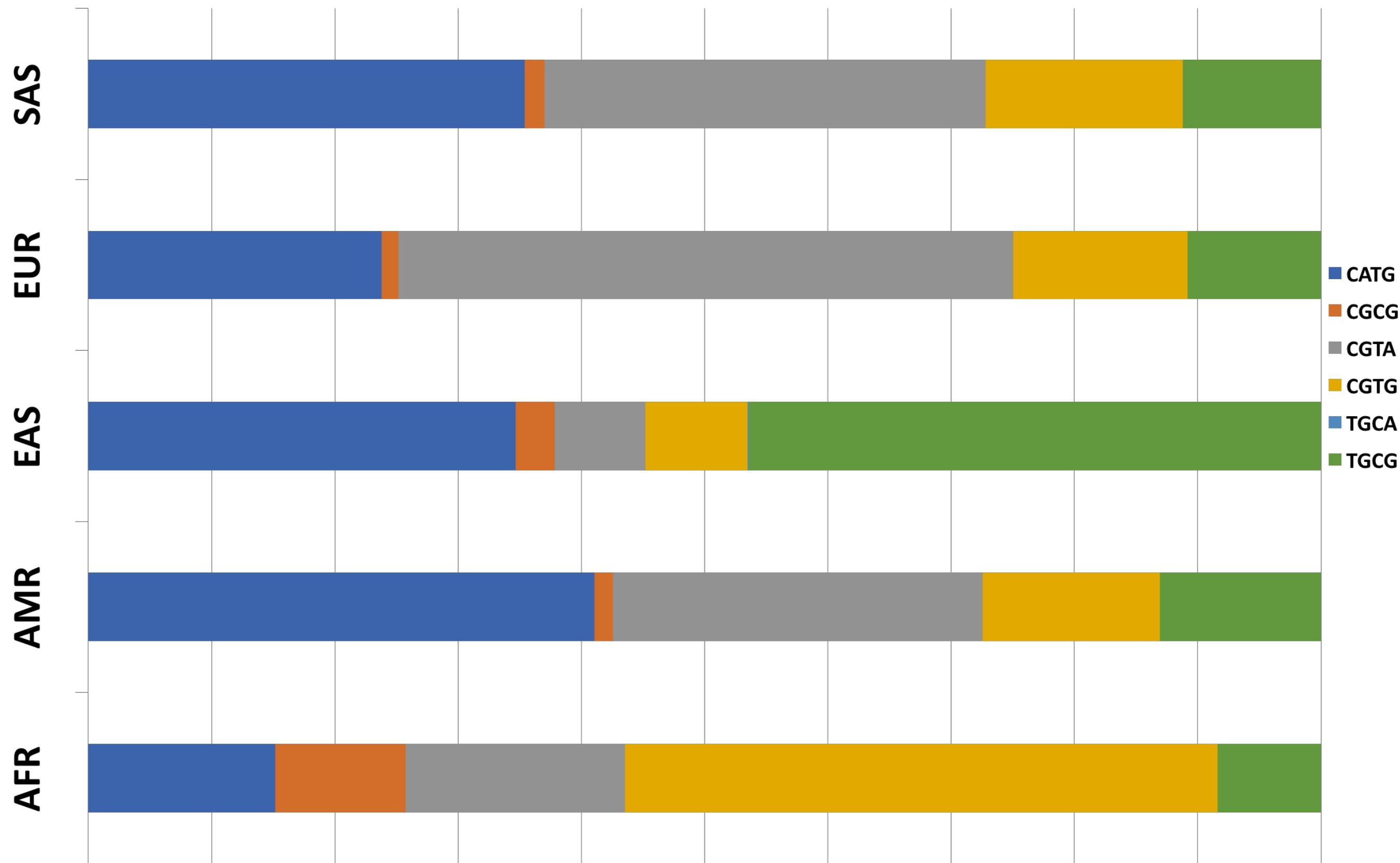
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**GD
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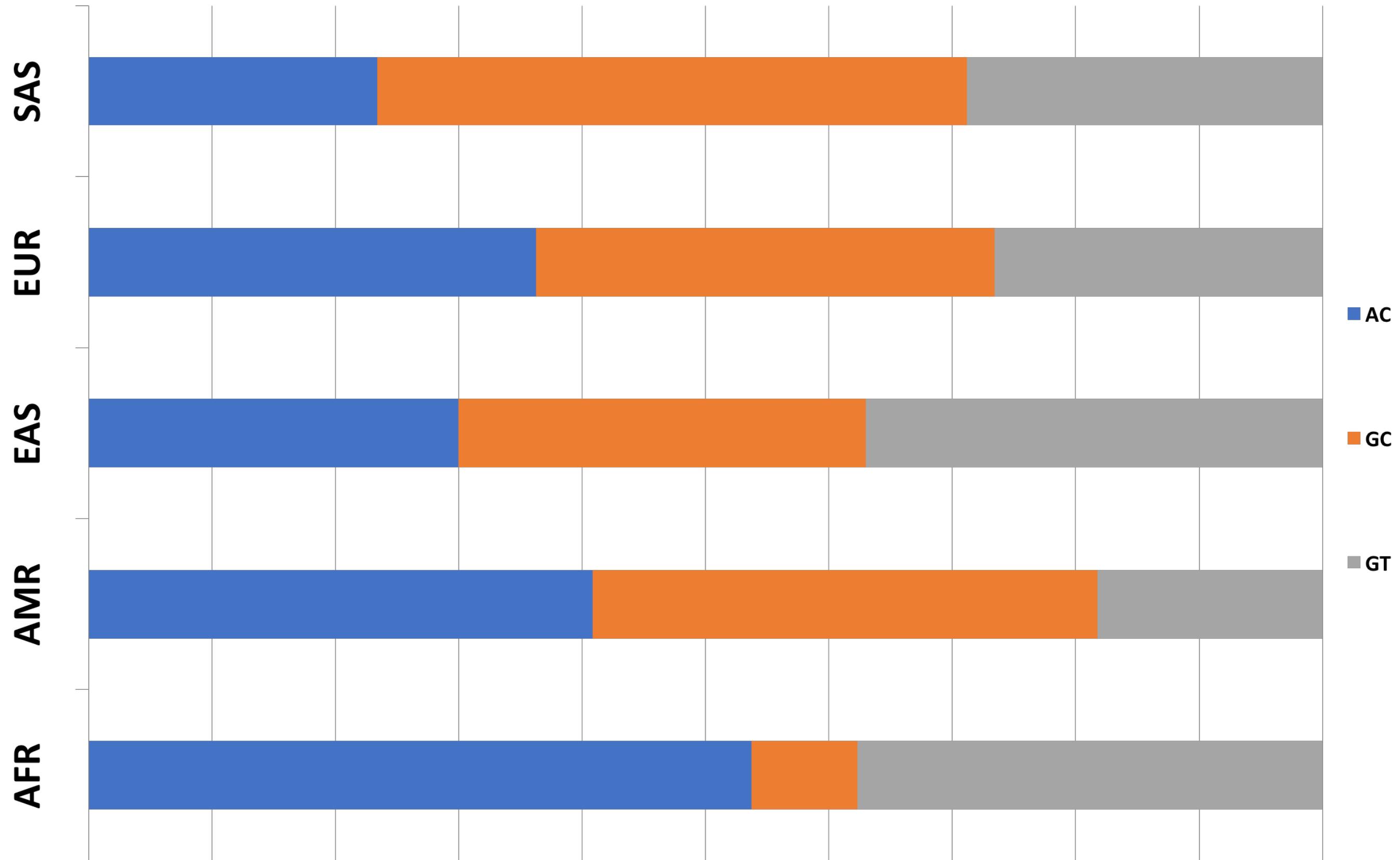
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GD
0.620



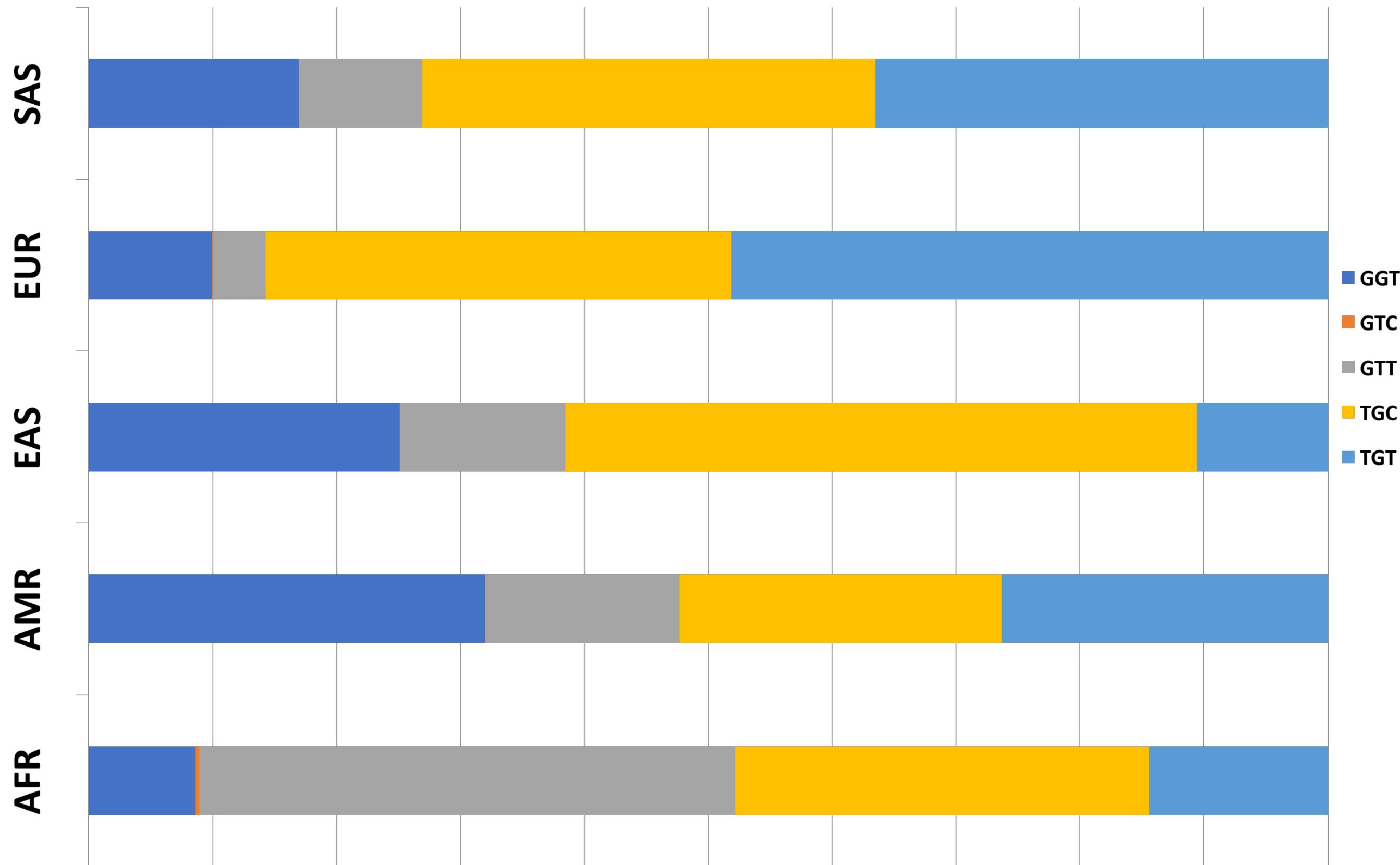
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16

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GD
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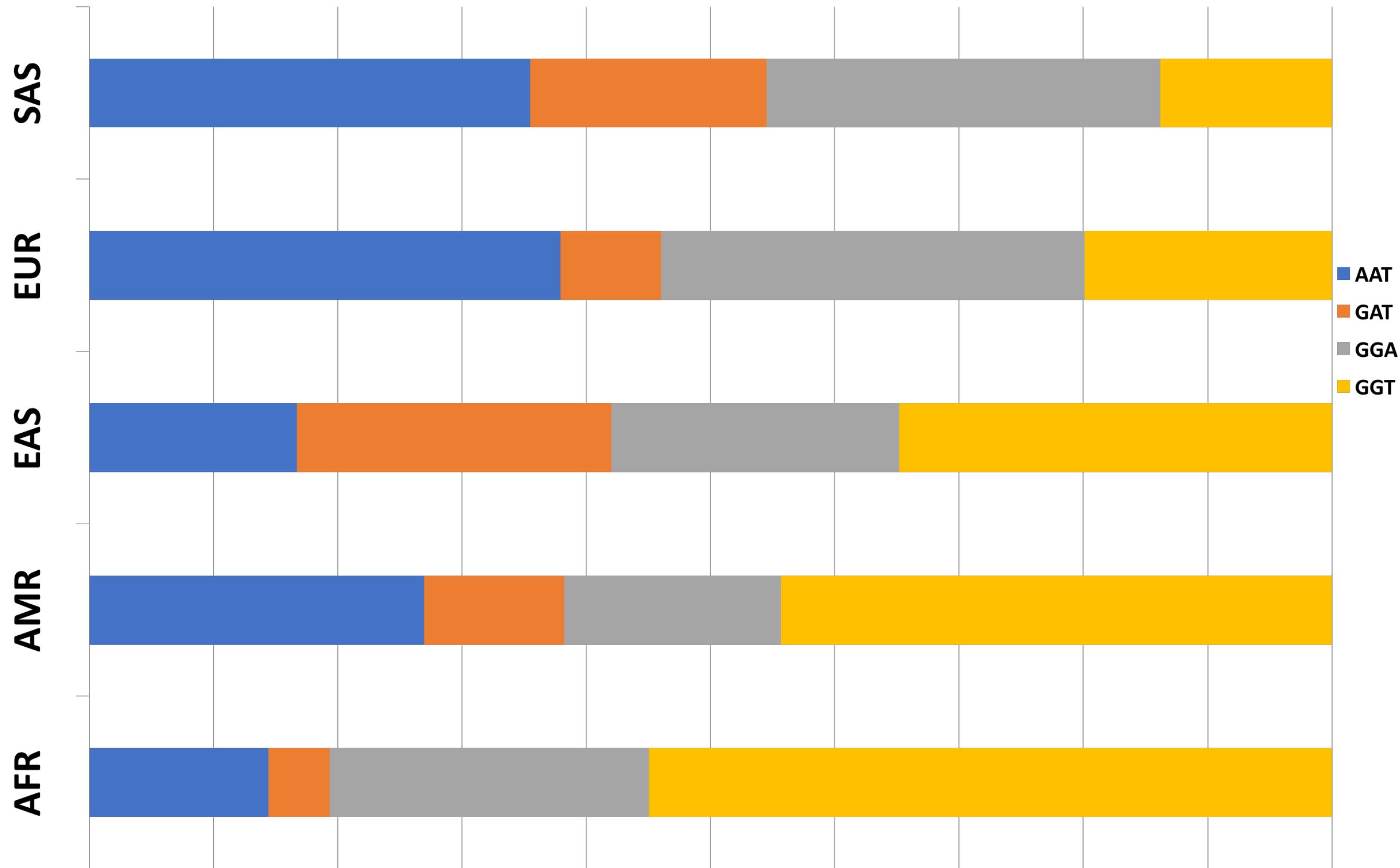
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88

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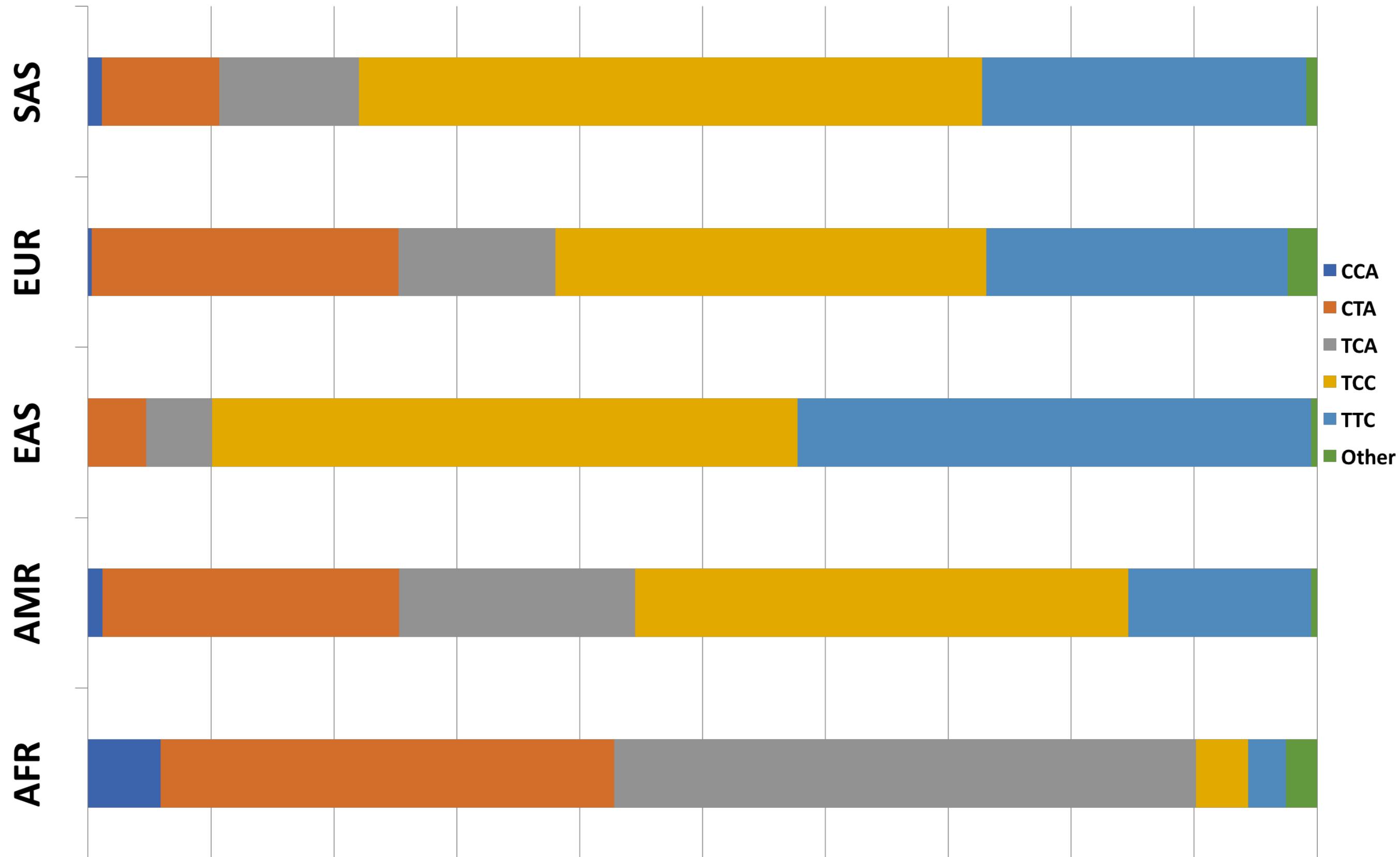
17pA

17:3821919-3821988

69

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GD
0.655



17qA

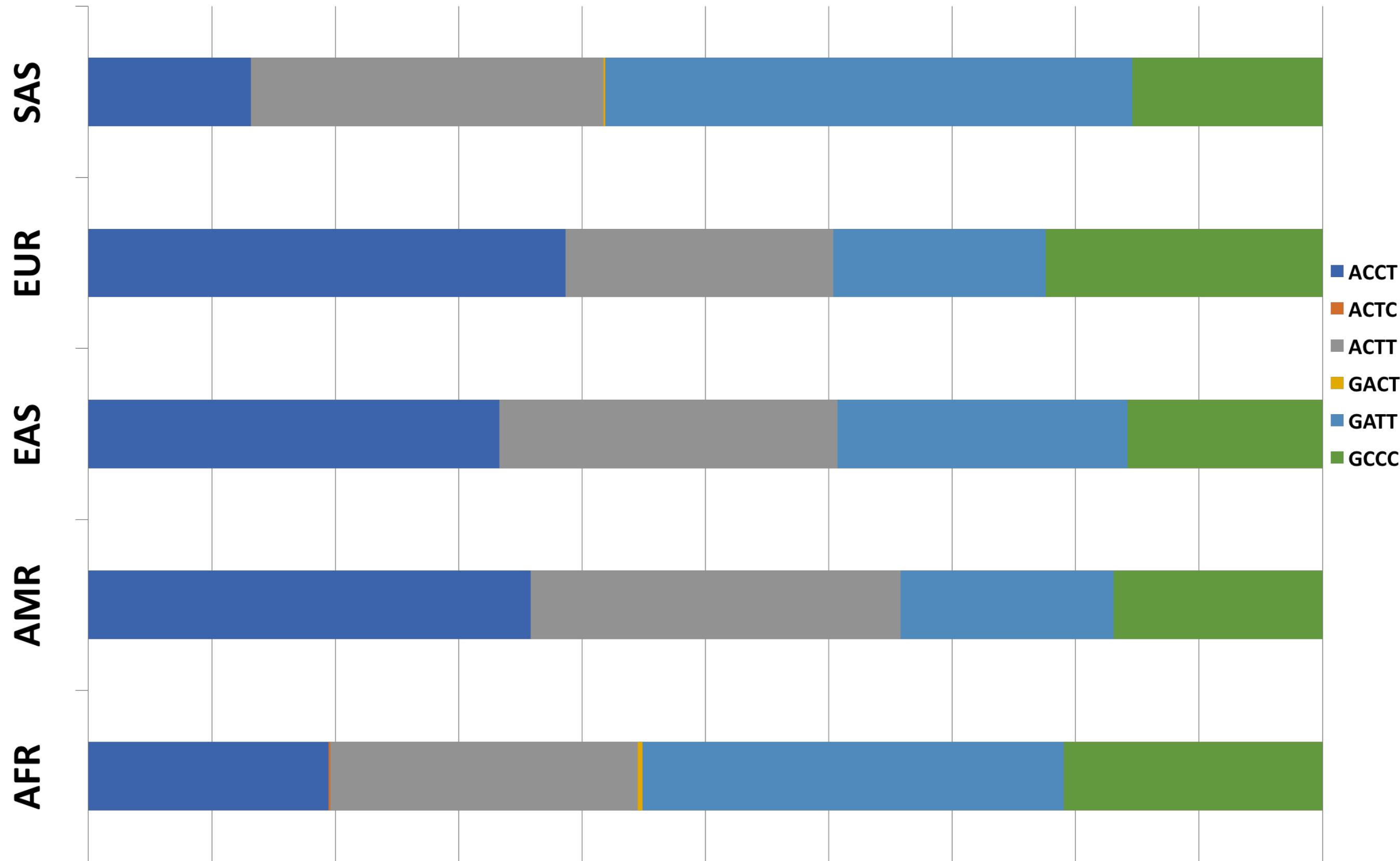
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87

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GD
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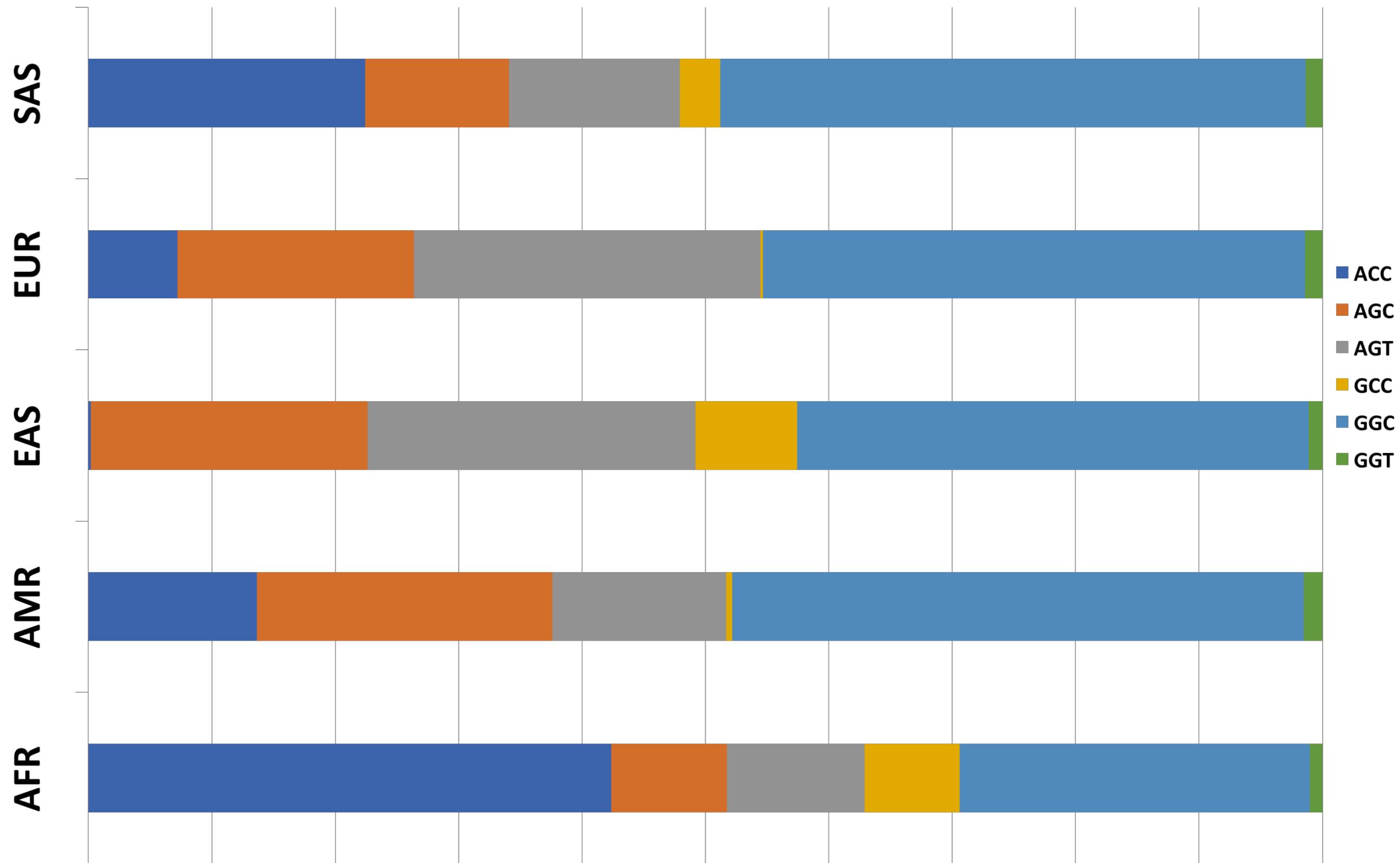
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47

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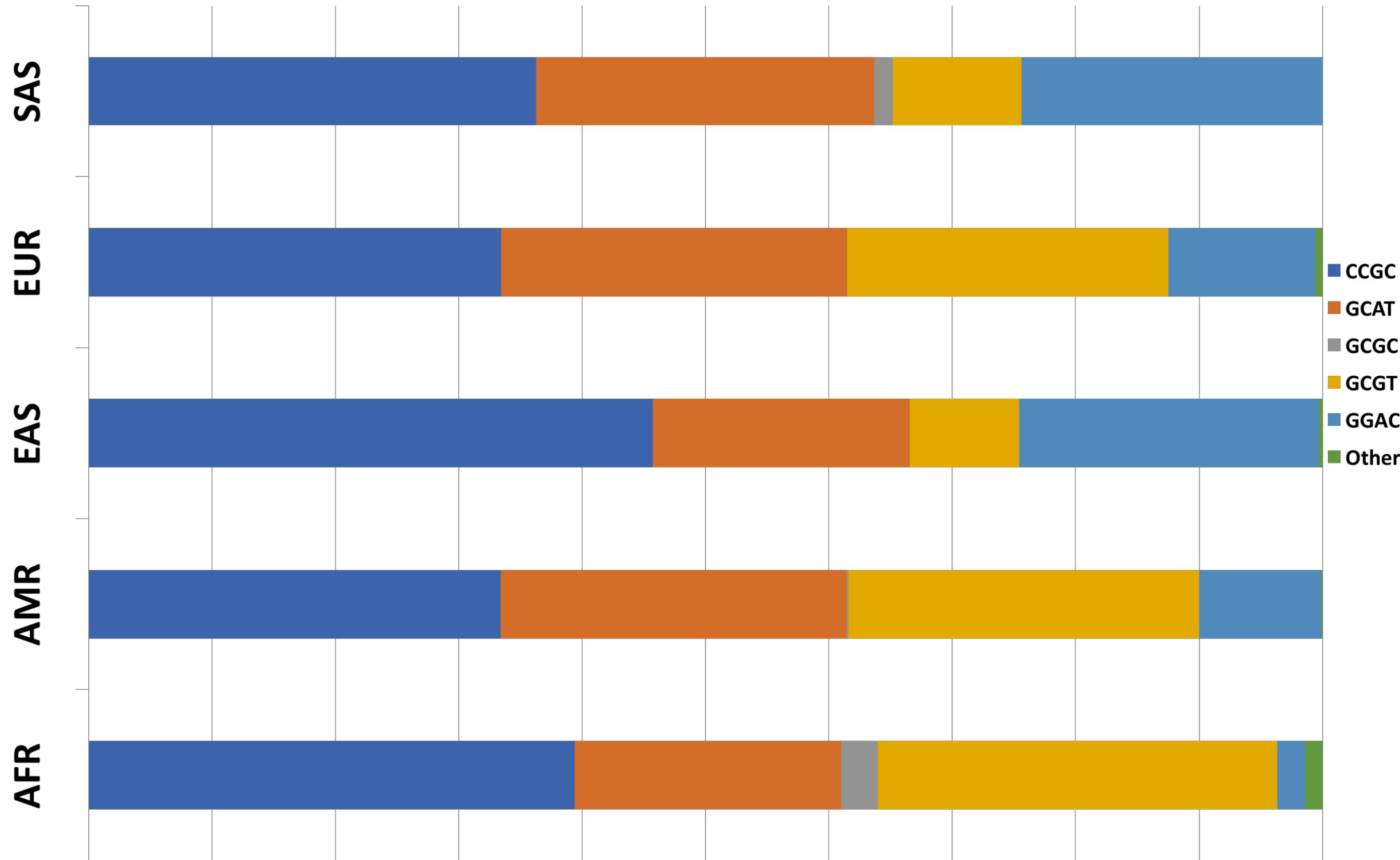
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17qC

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83

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18pA

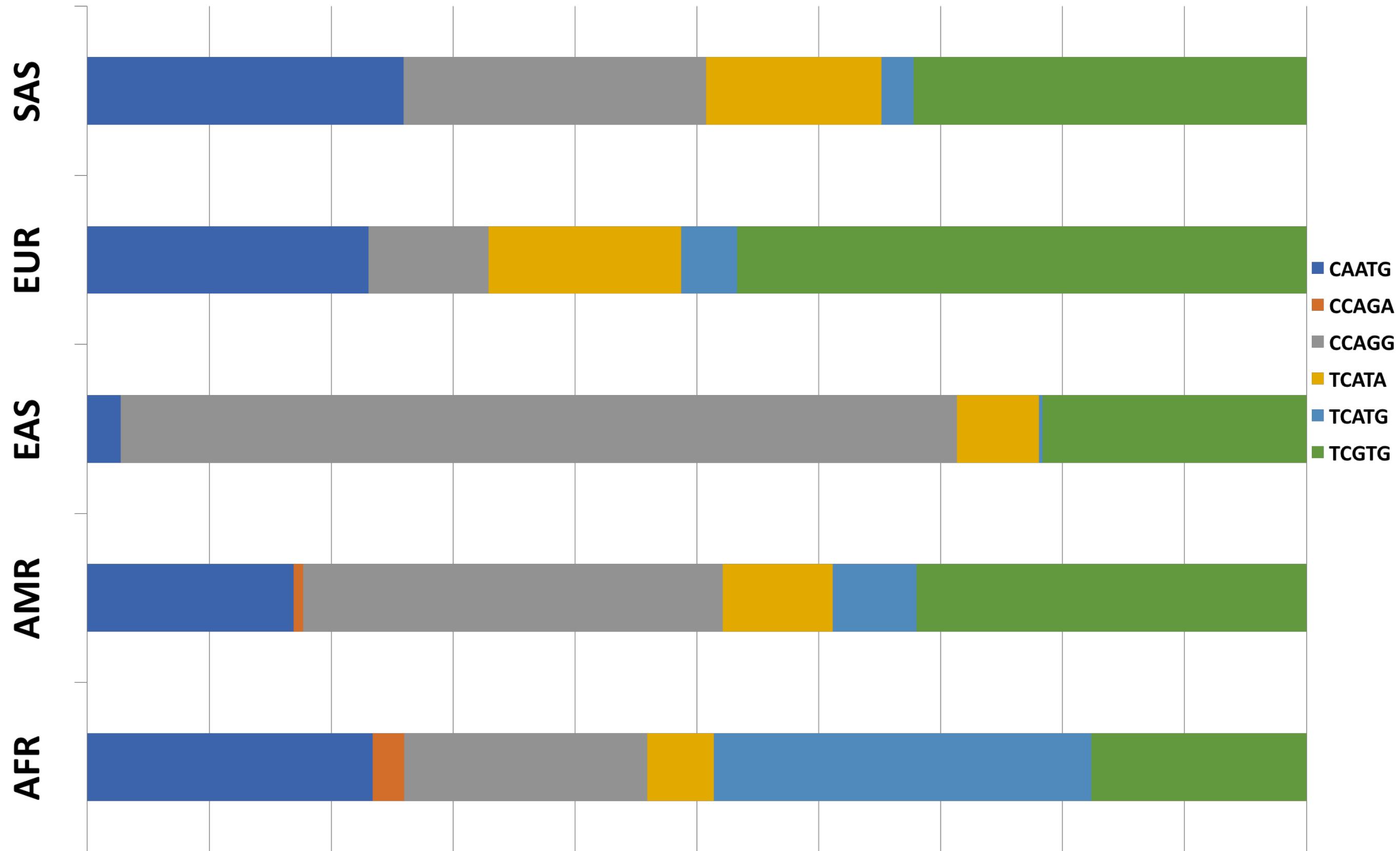
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76

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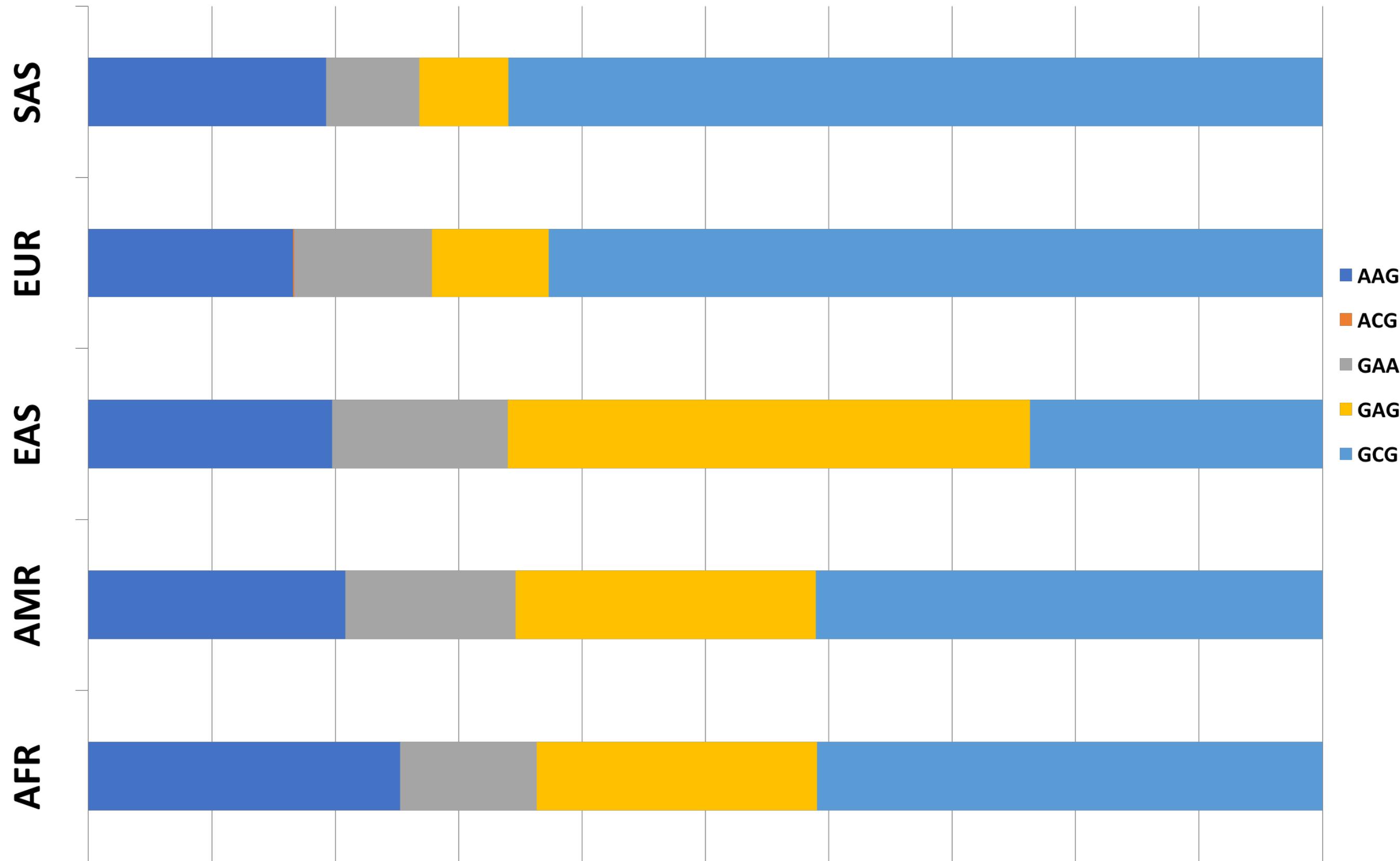
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17

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GD
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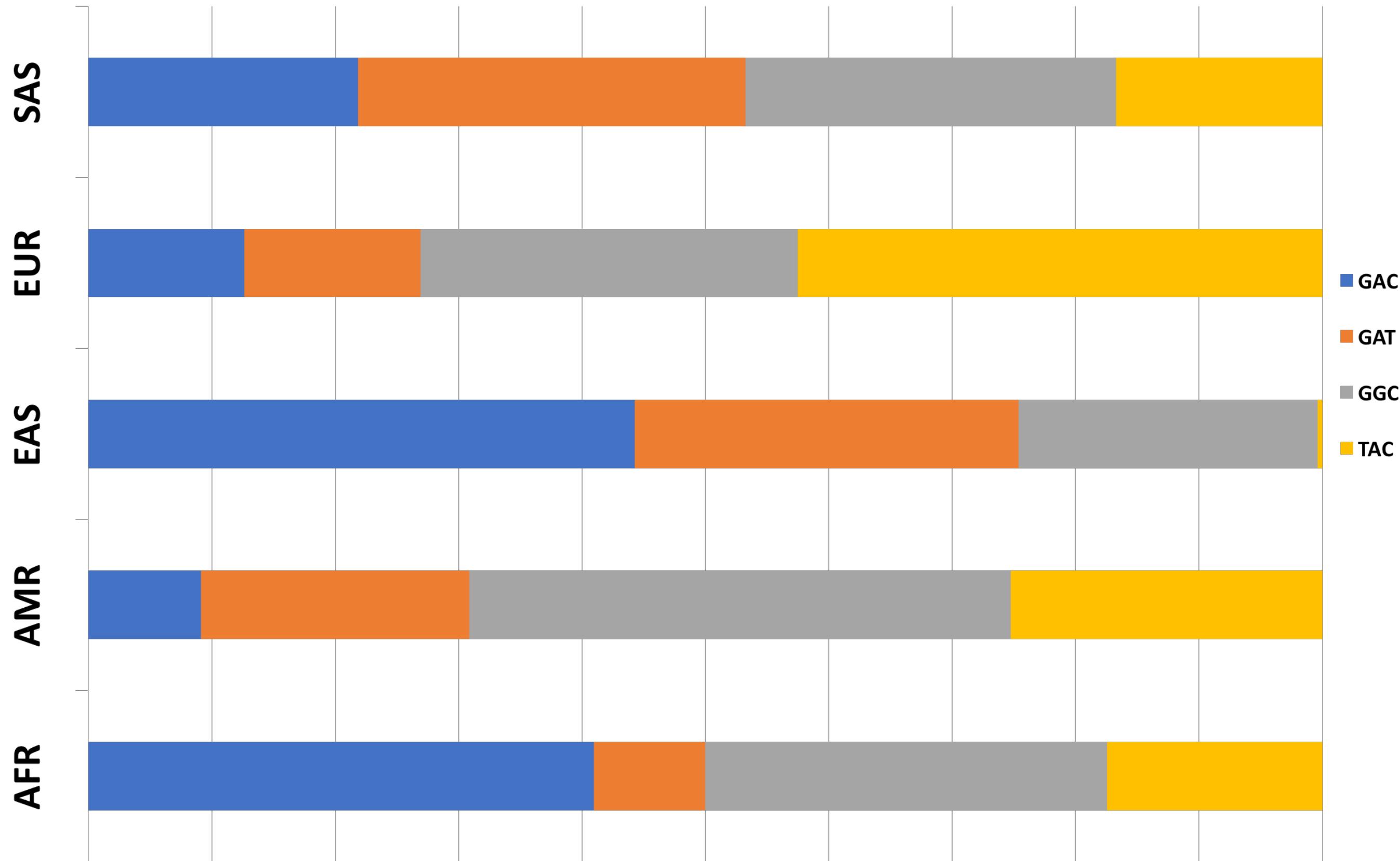
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42

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18qC

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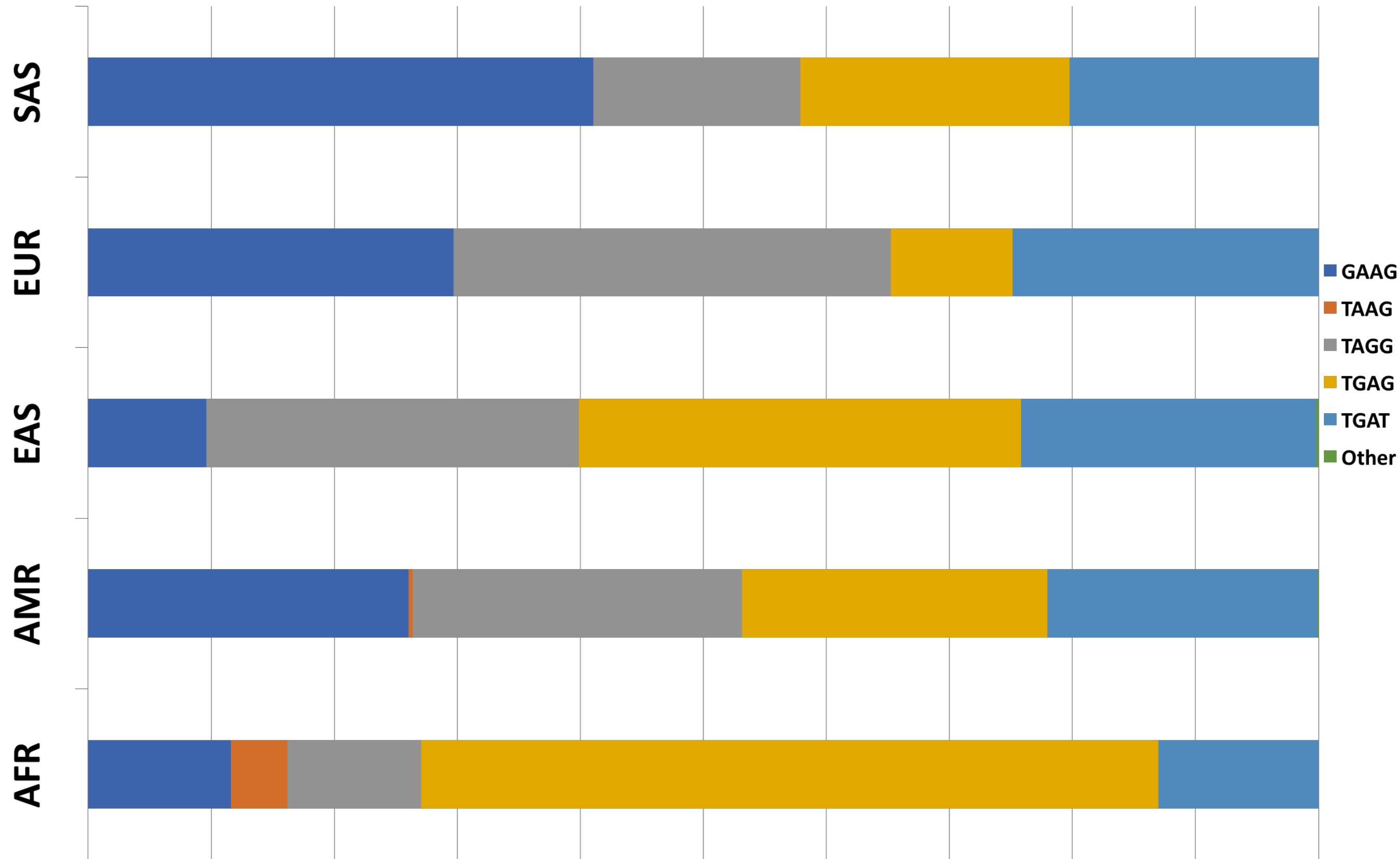
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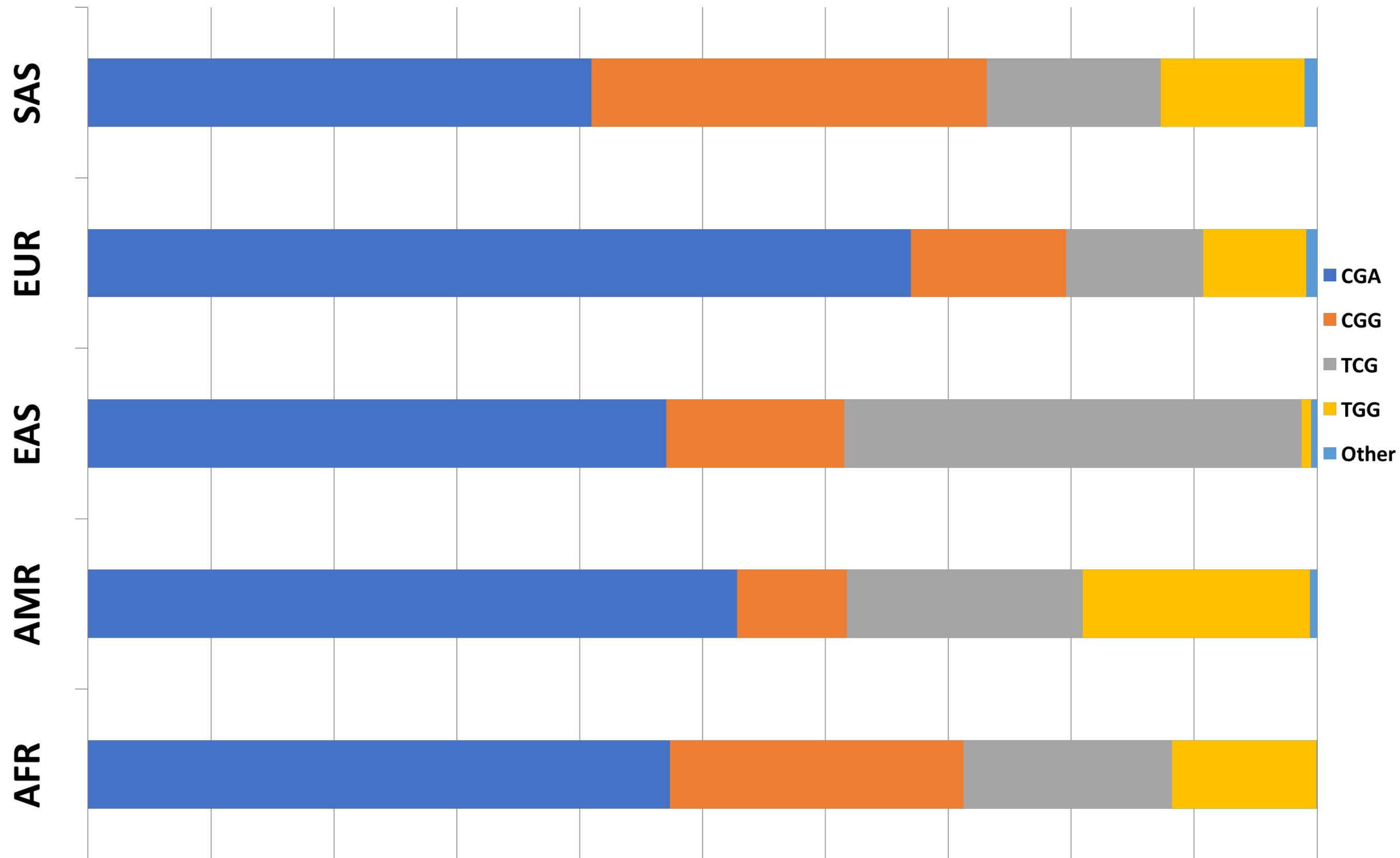
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37

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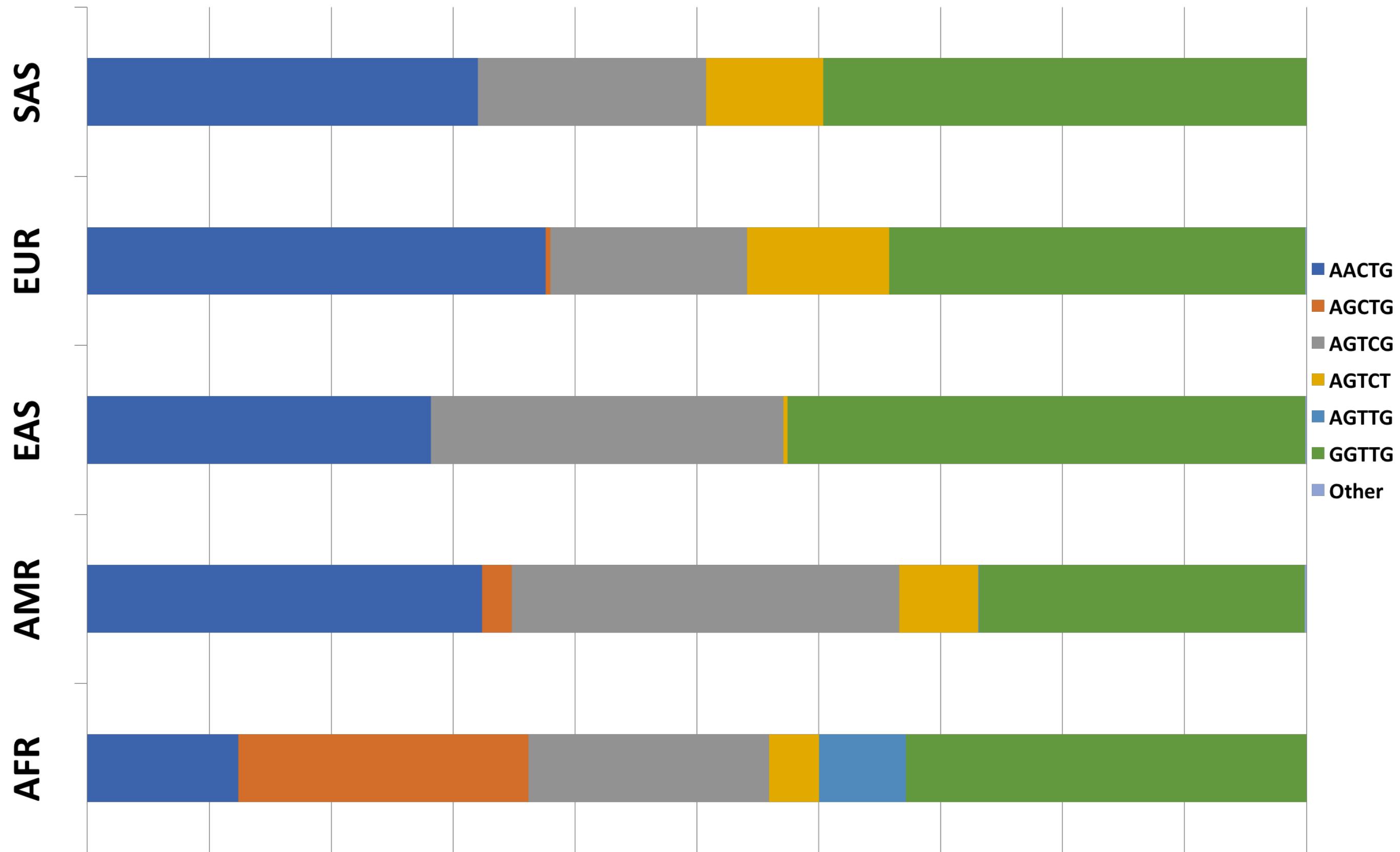
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19pB

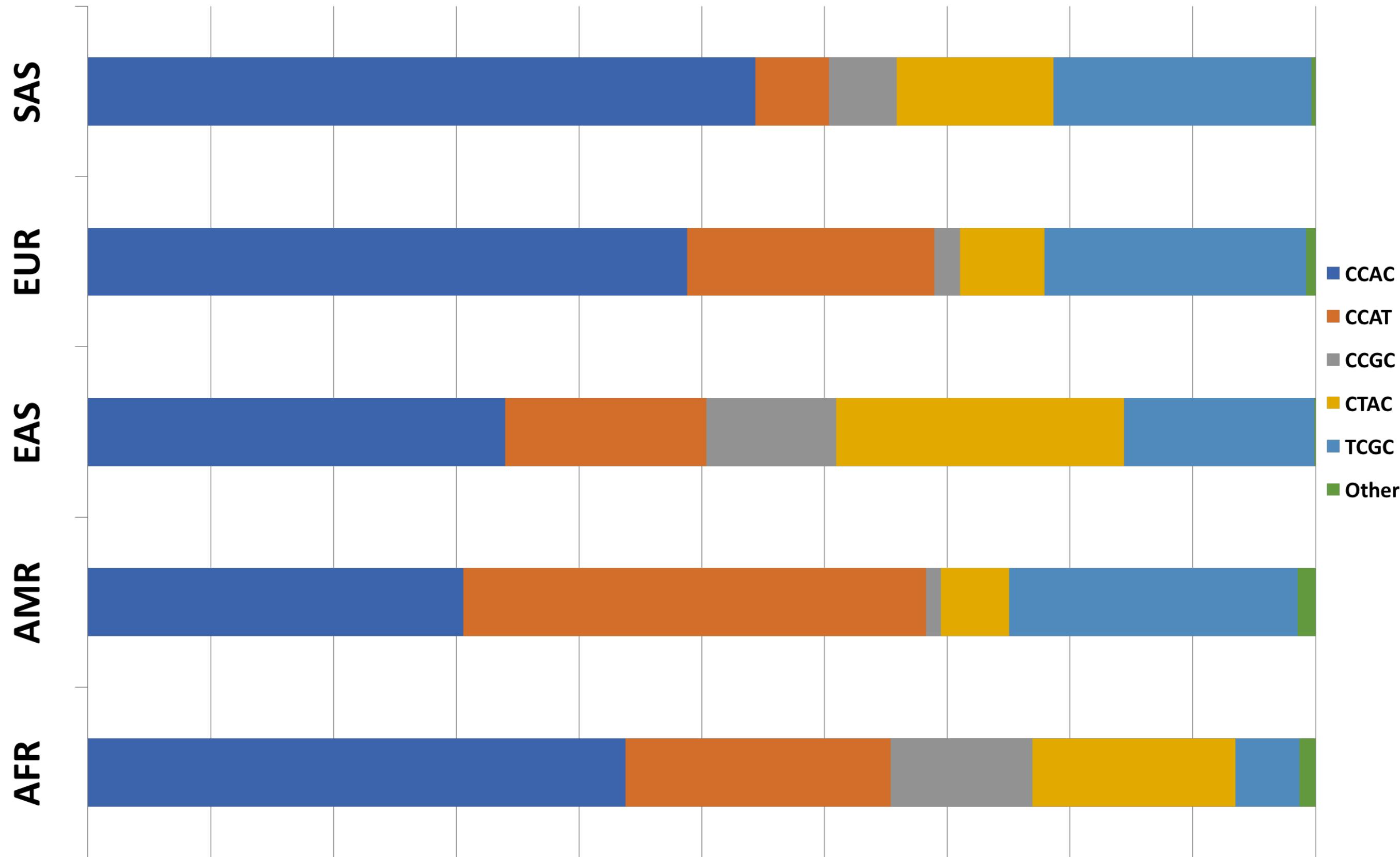
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65

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19qA

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0.691

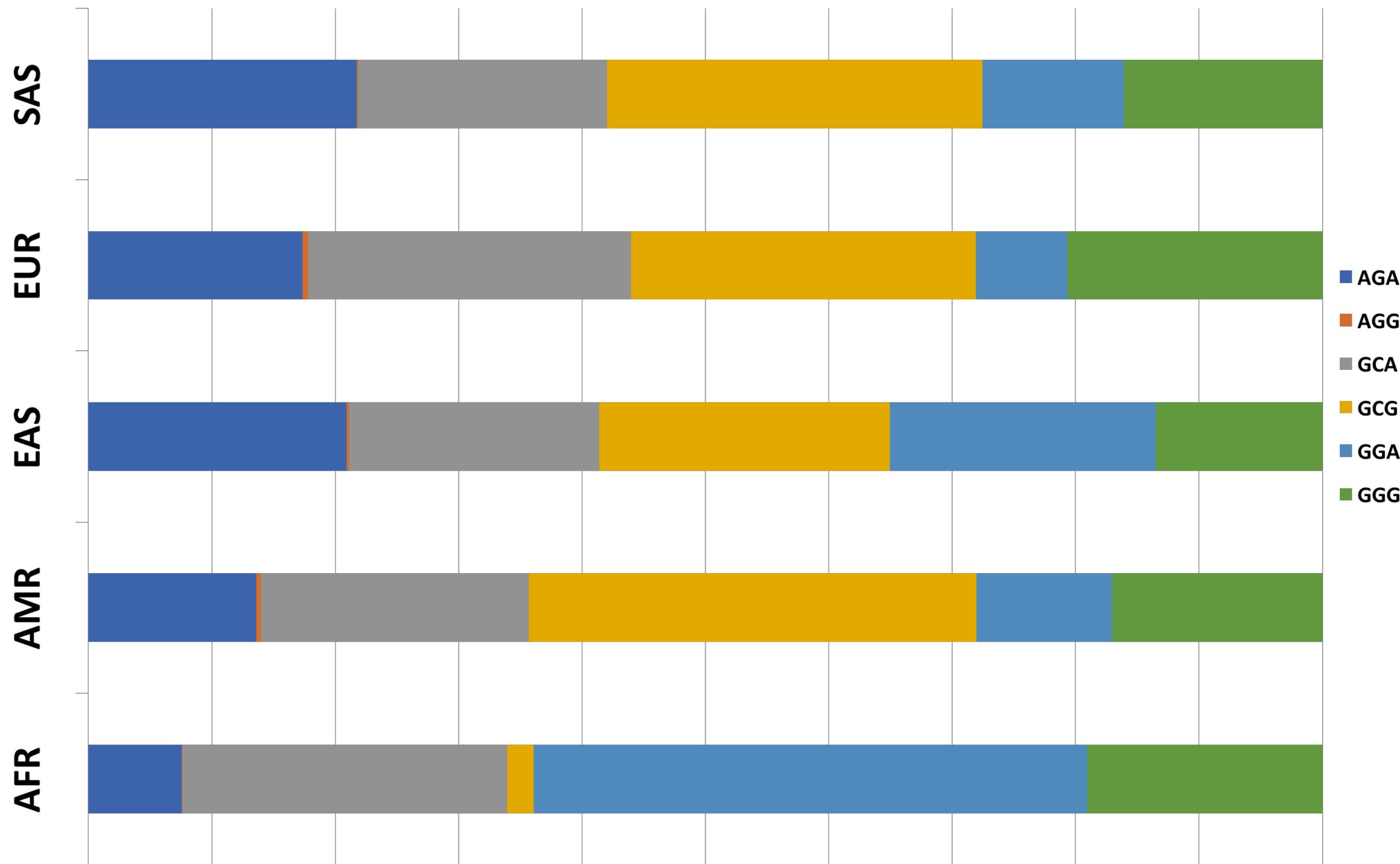
19qB

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20pA

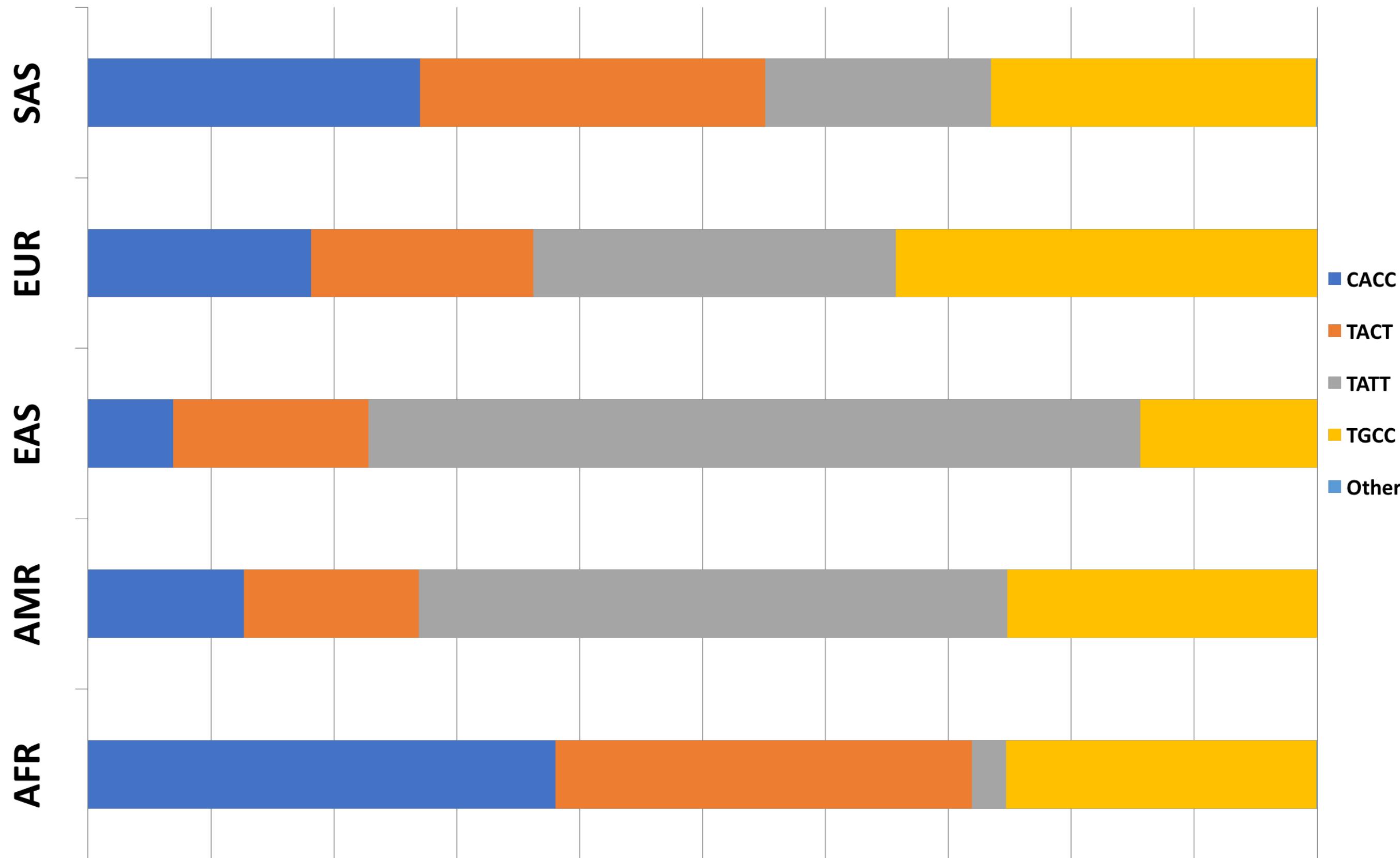
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74

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GD
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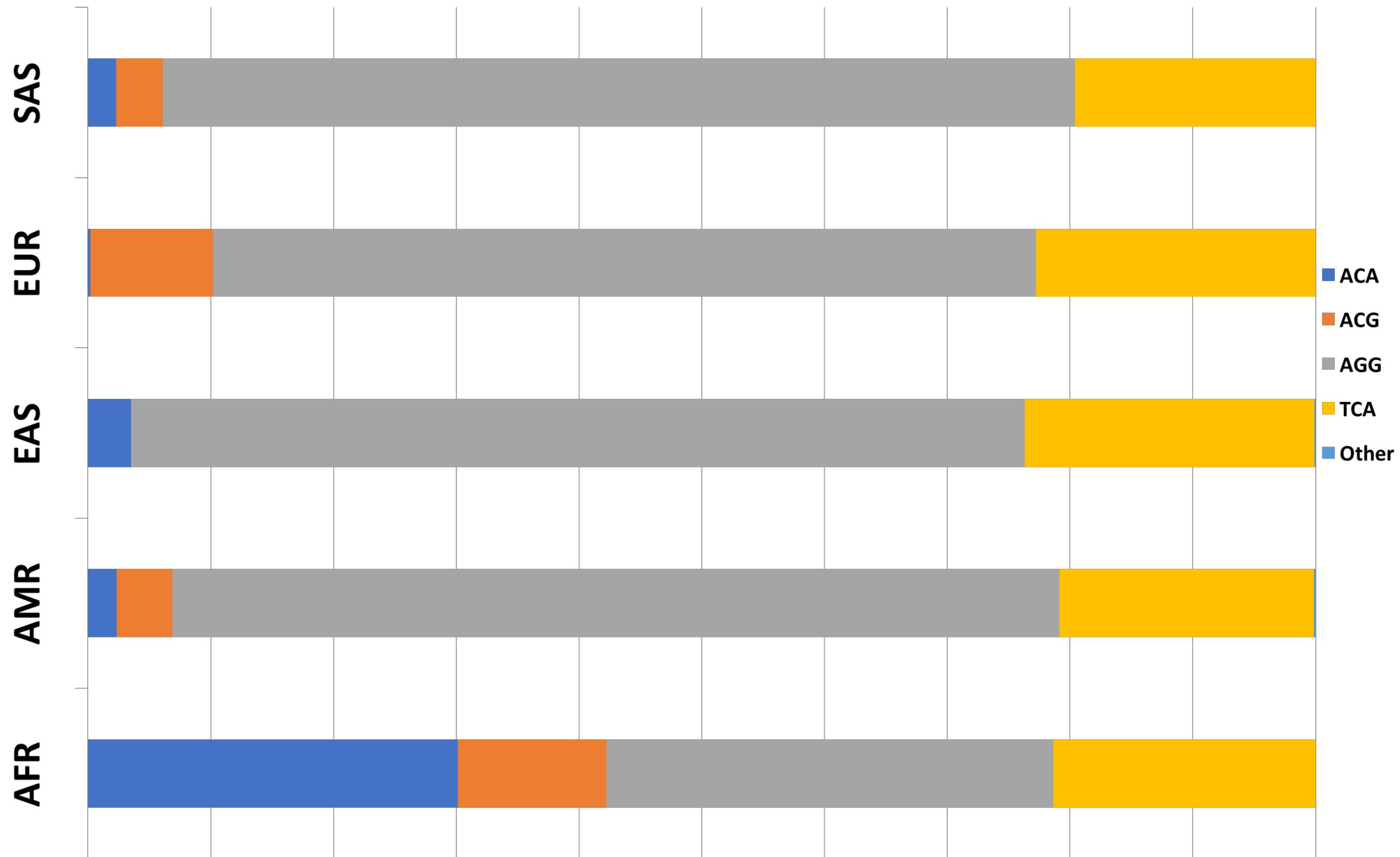
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58

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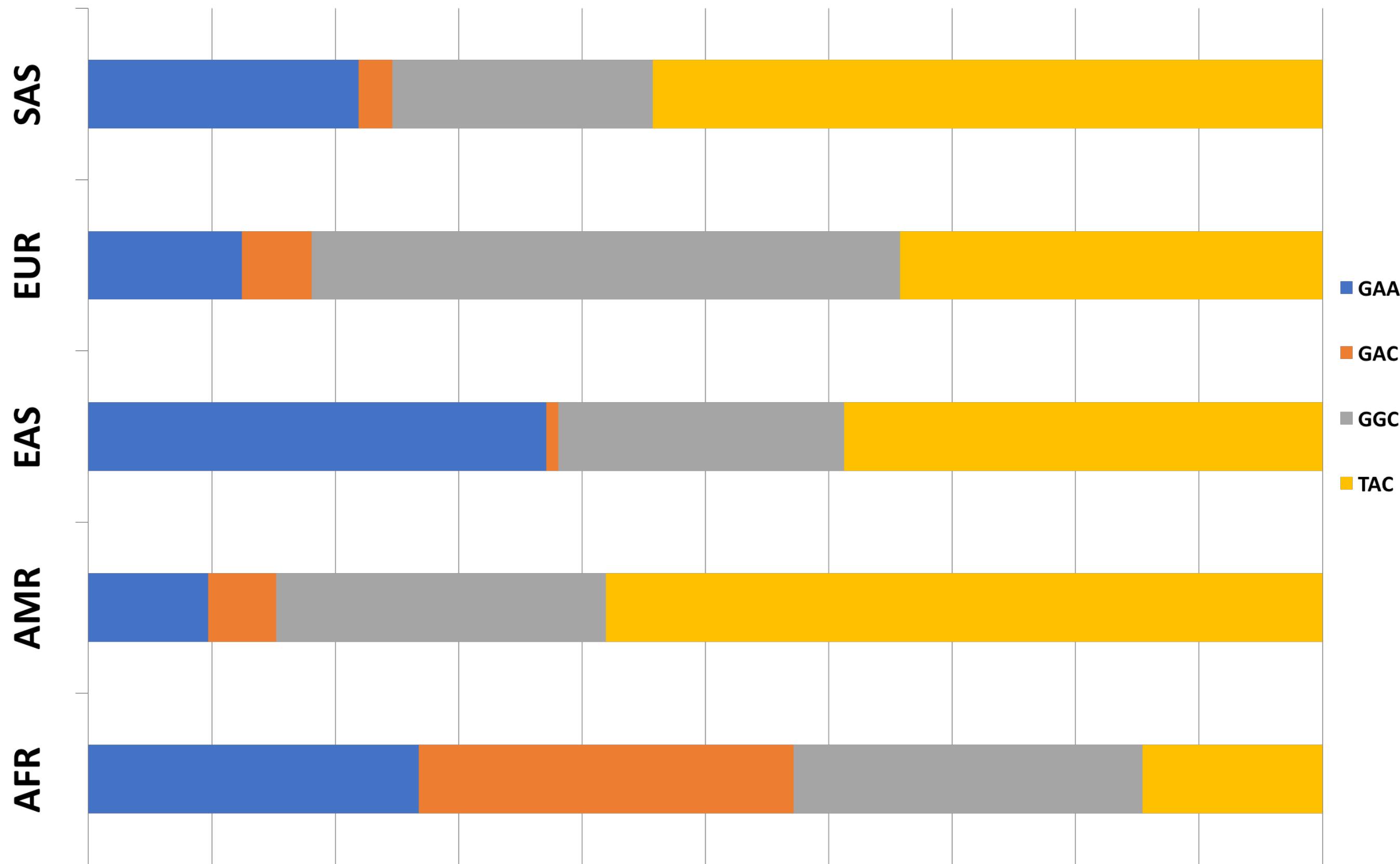
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20qB

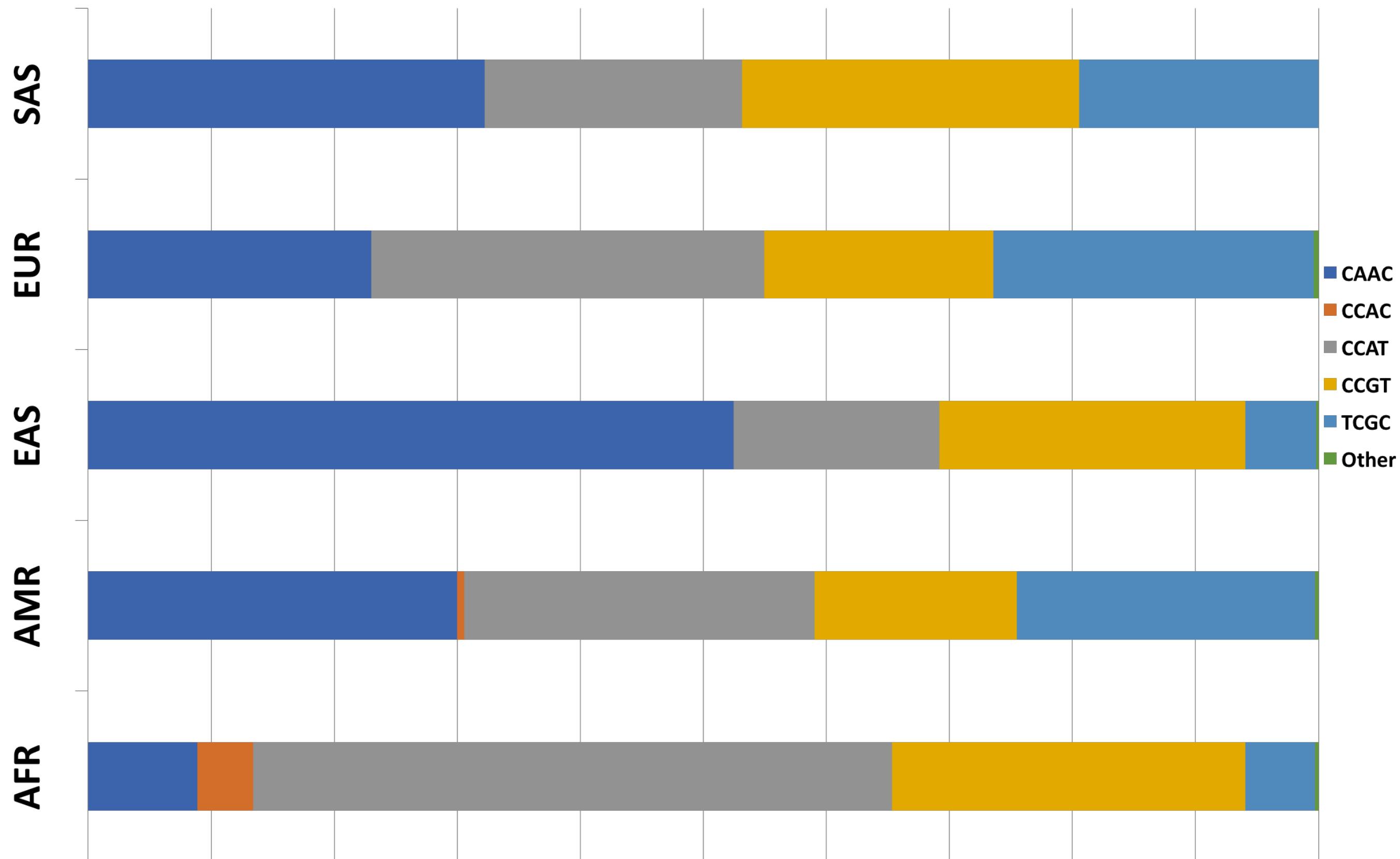
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21qA

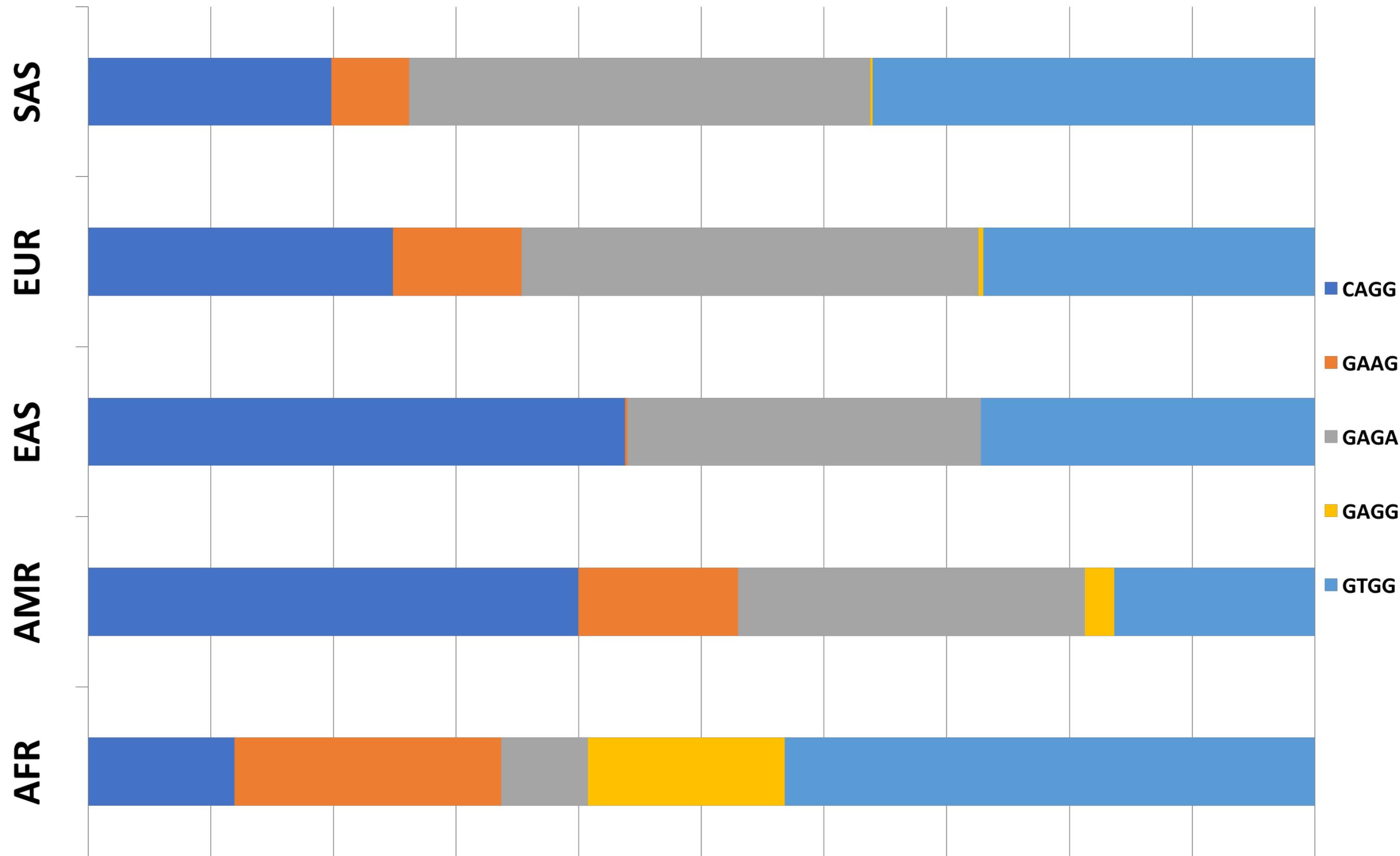
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GD
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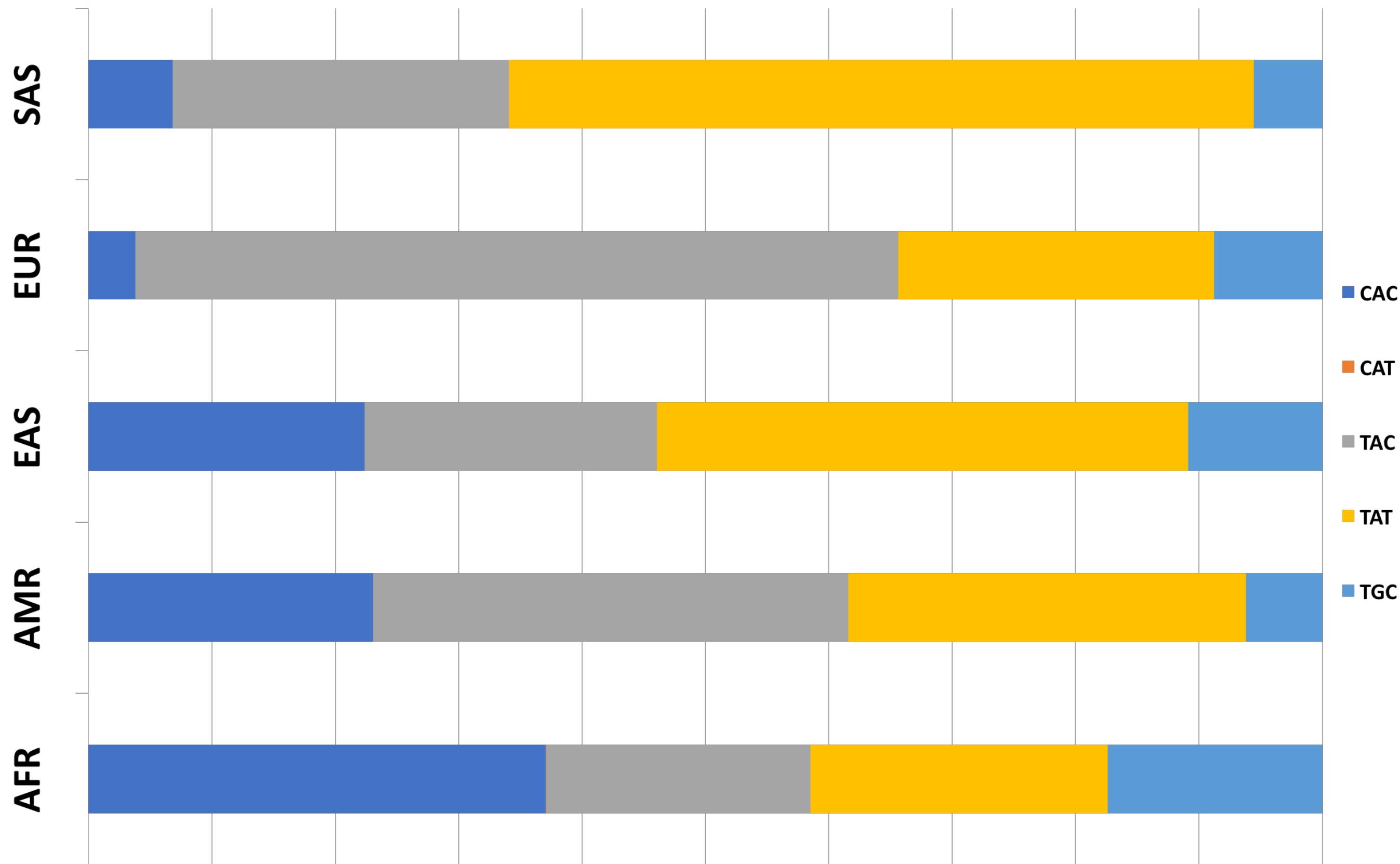
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21:40295064-40295090

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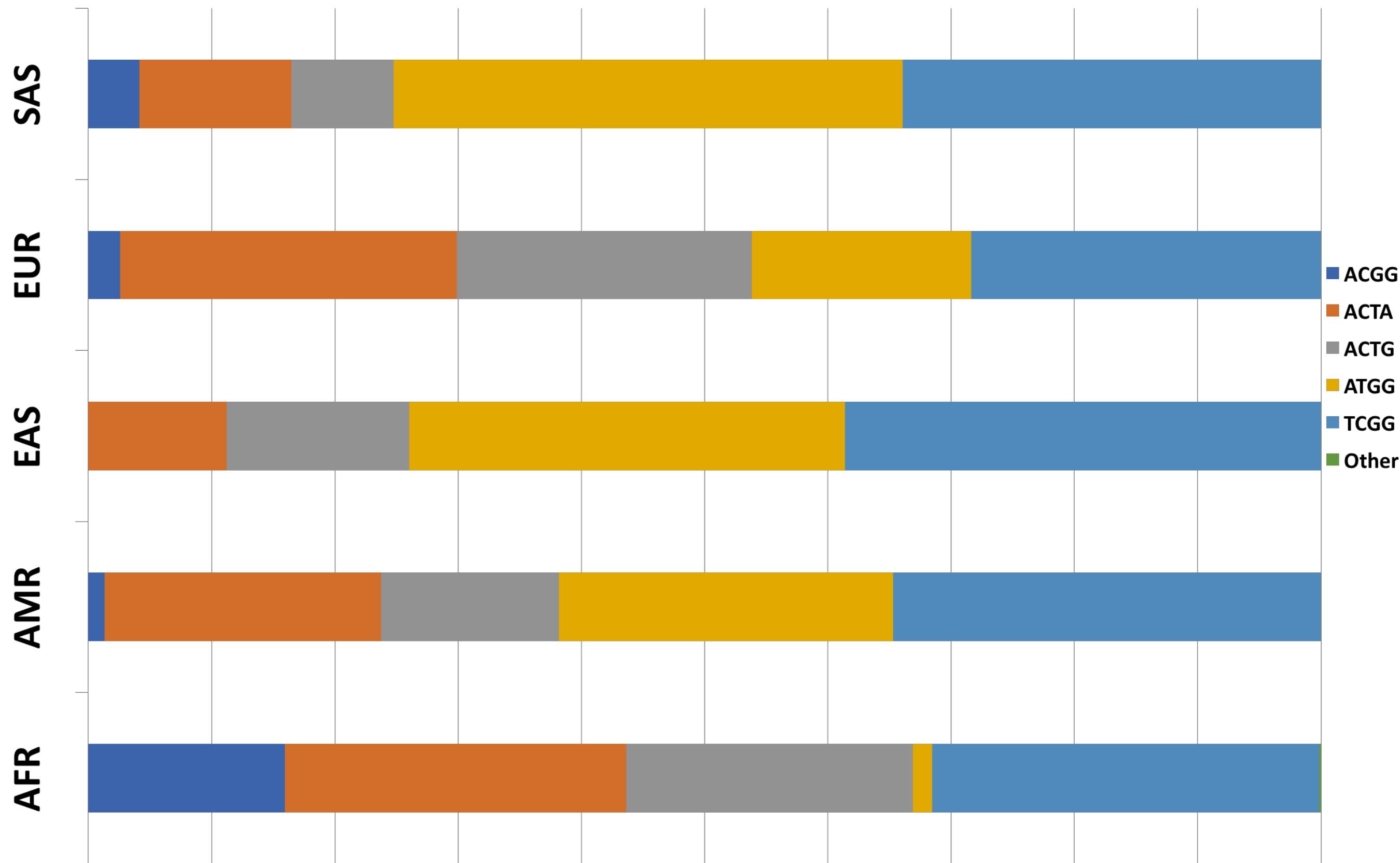
GD
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22qA

22:30800305-30800368

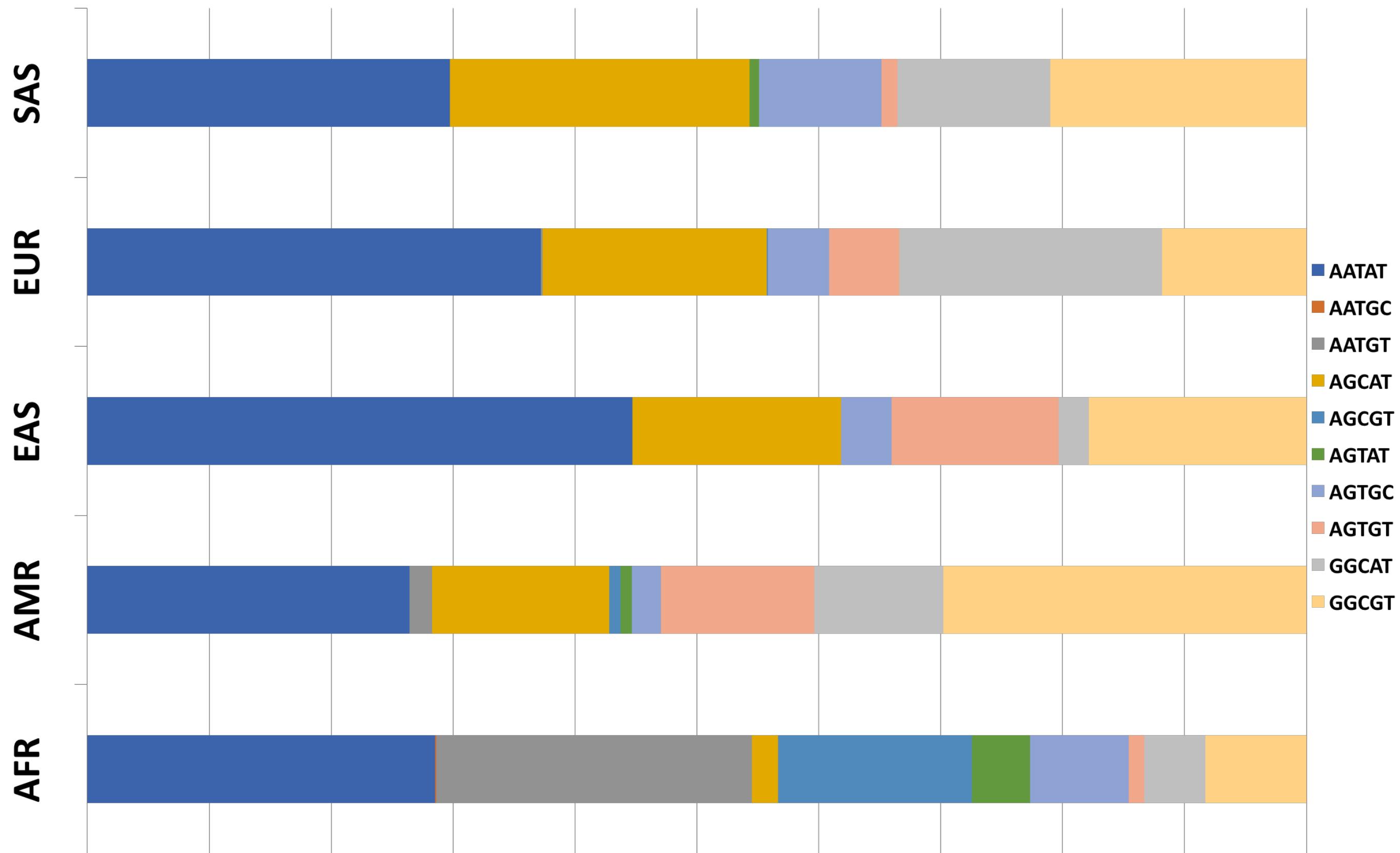
63

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52

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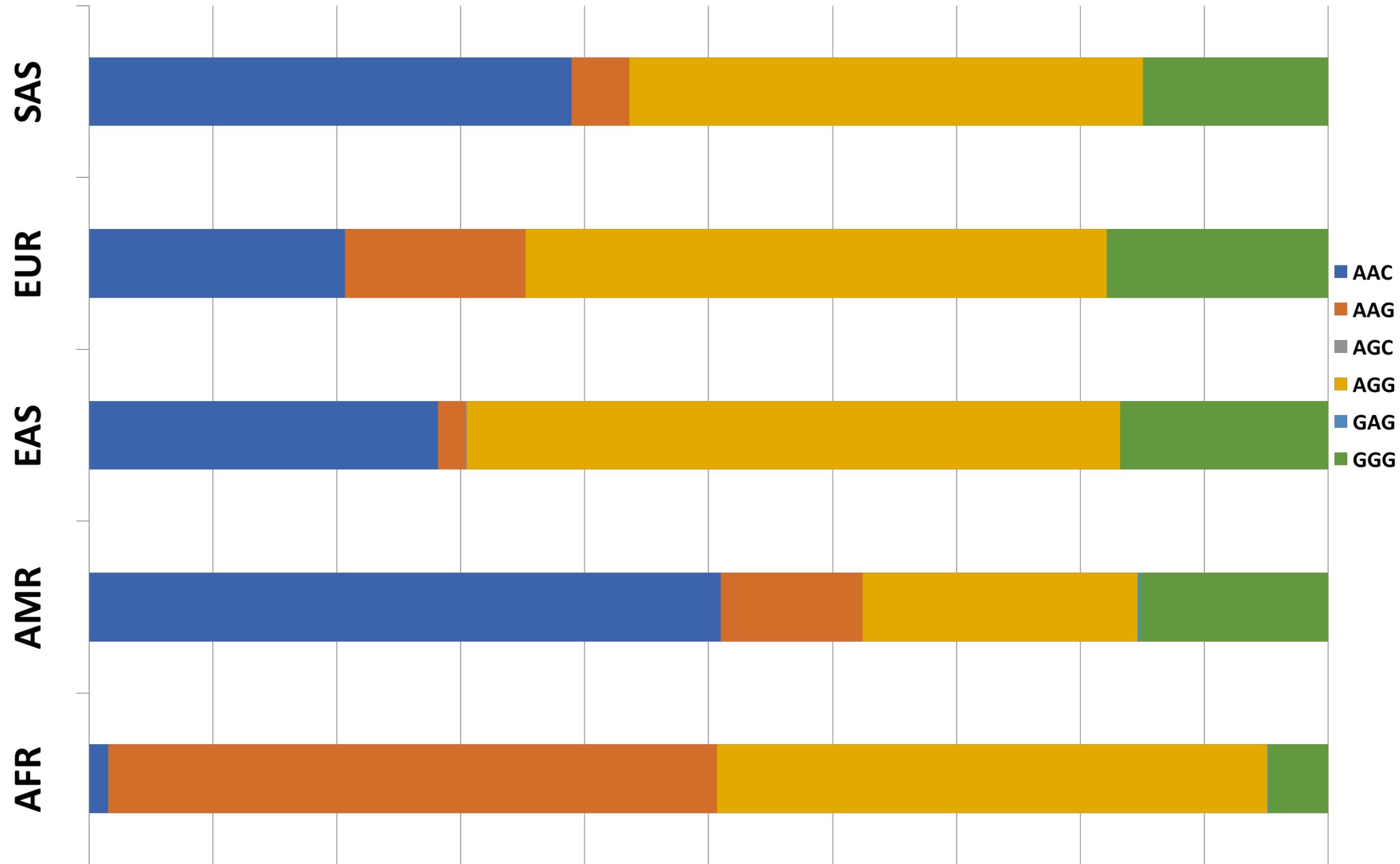
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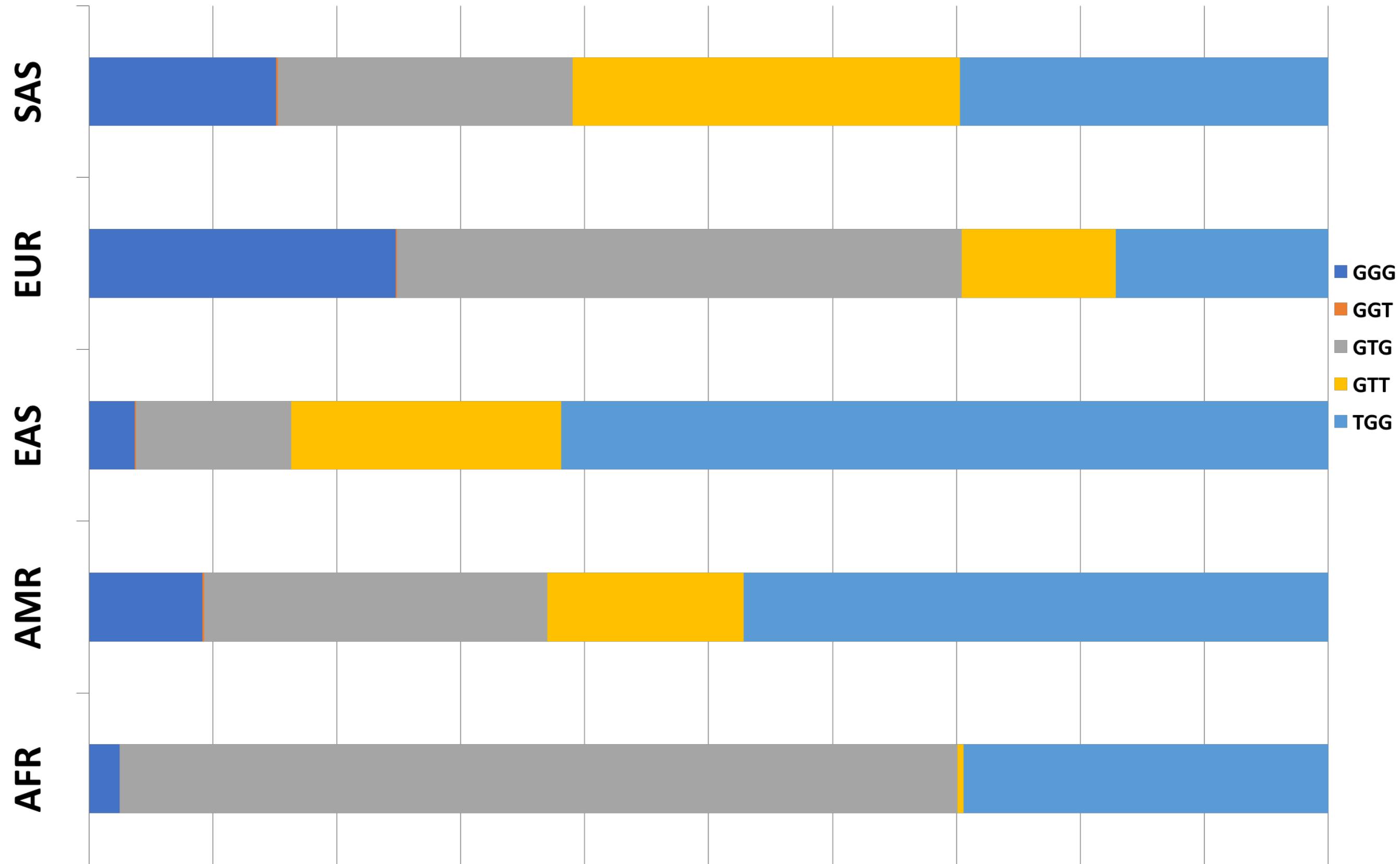
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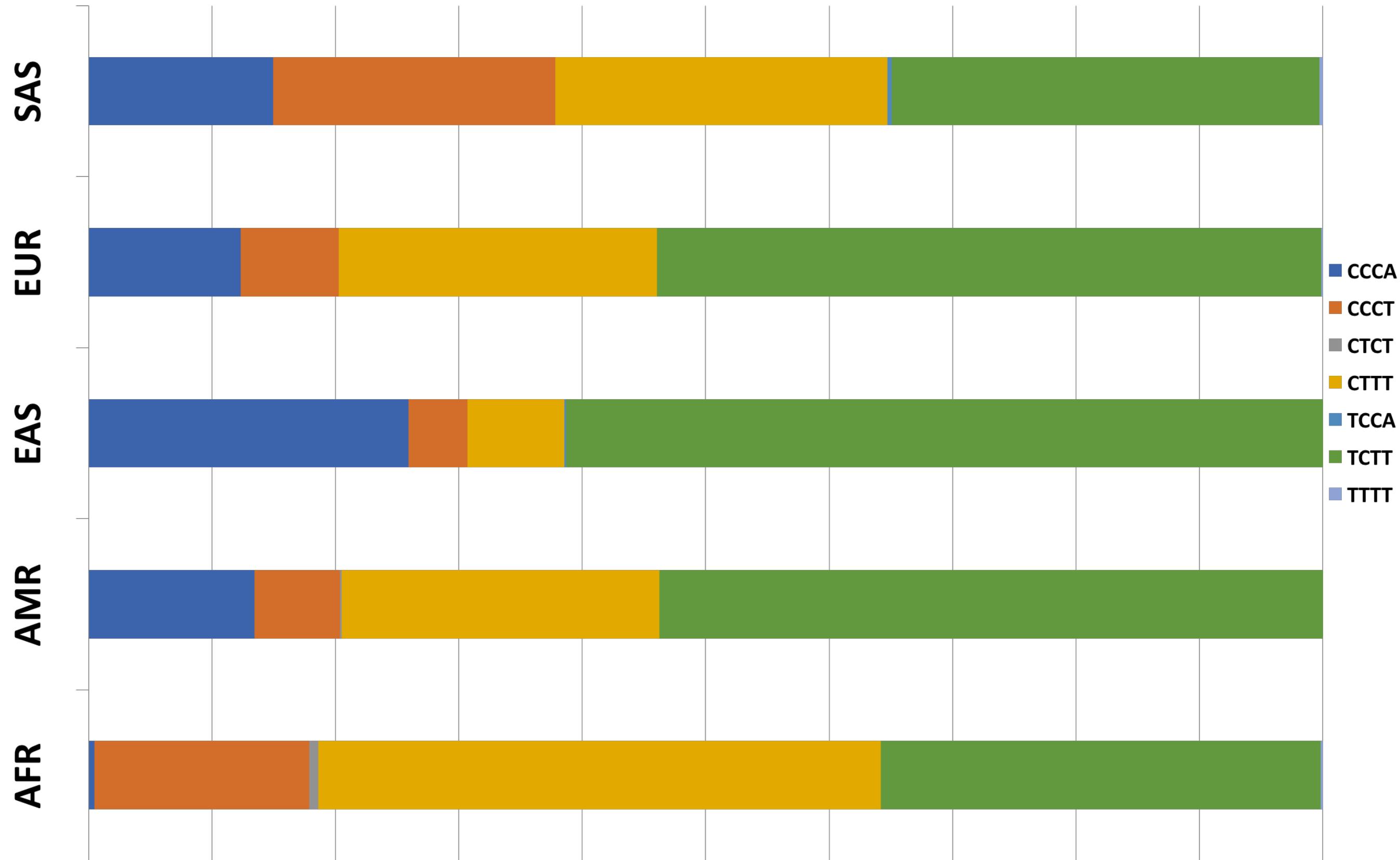
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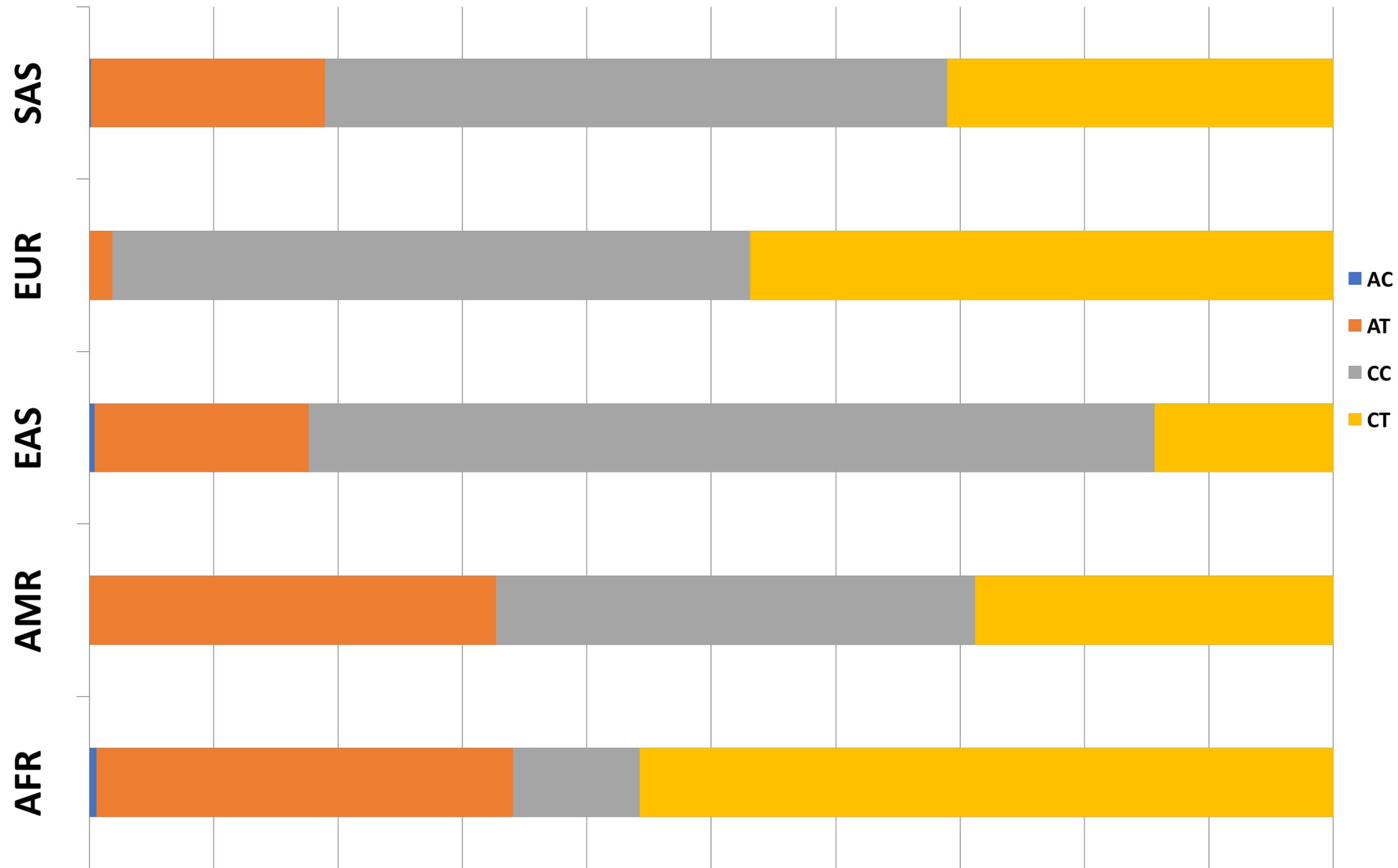
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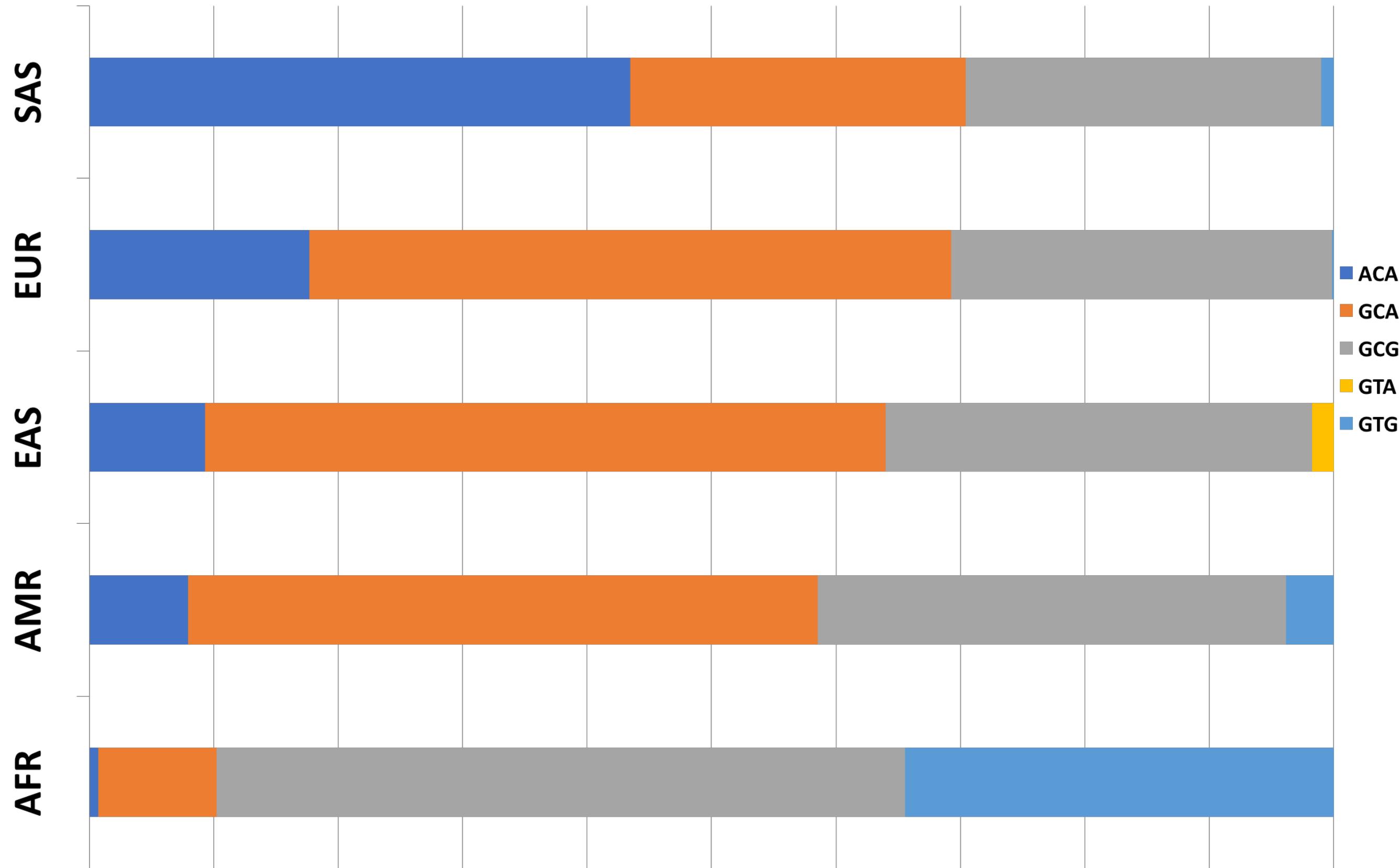
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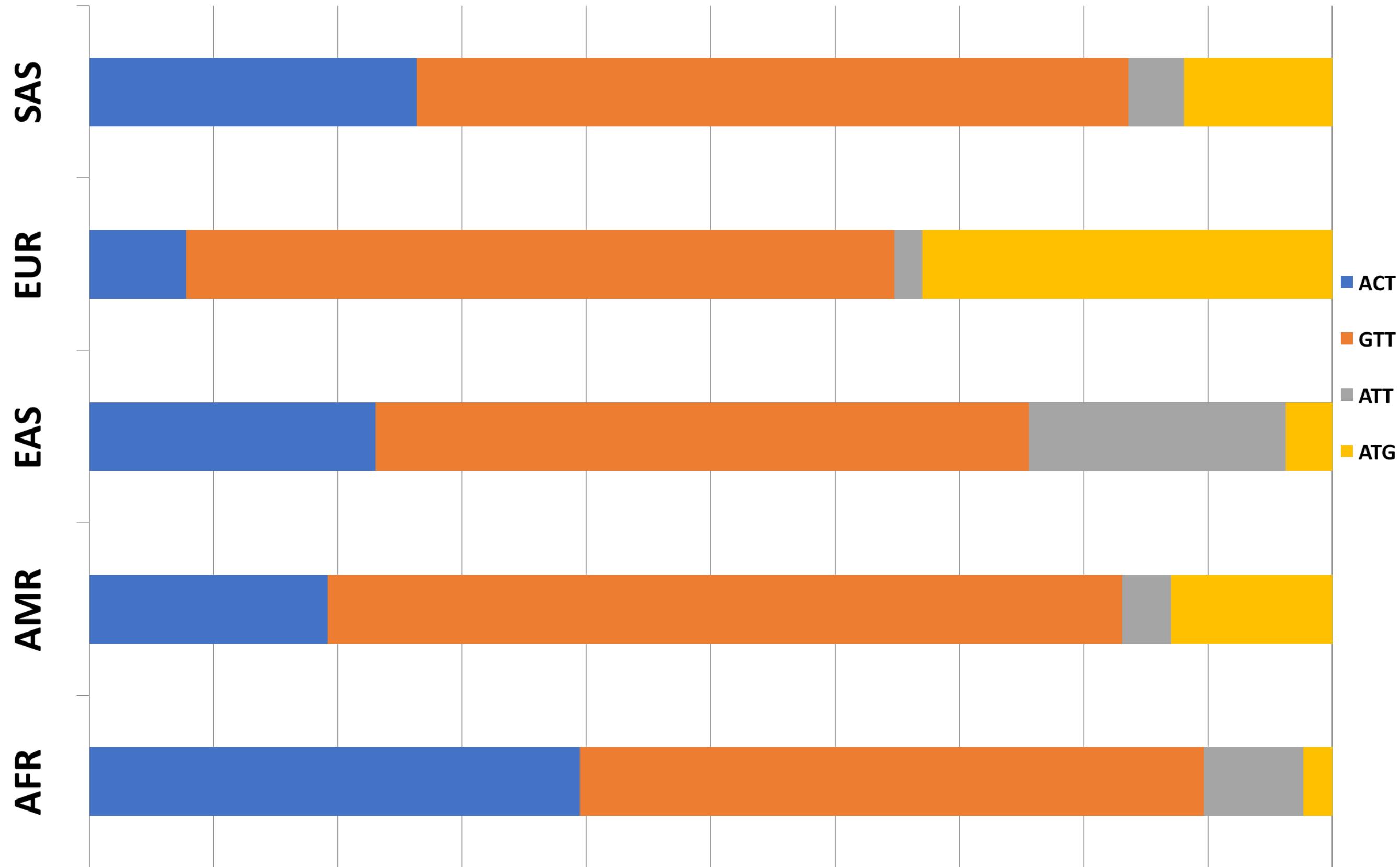
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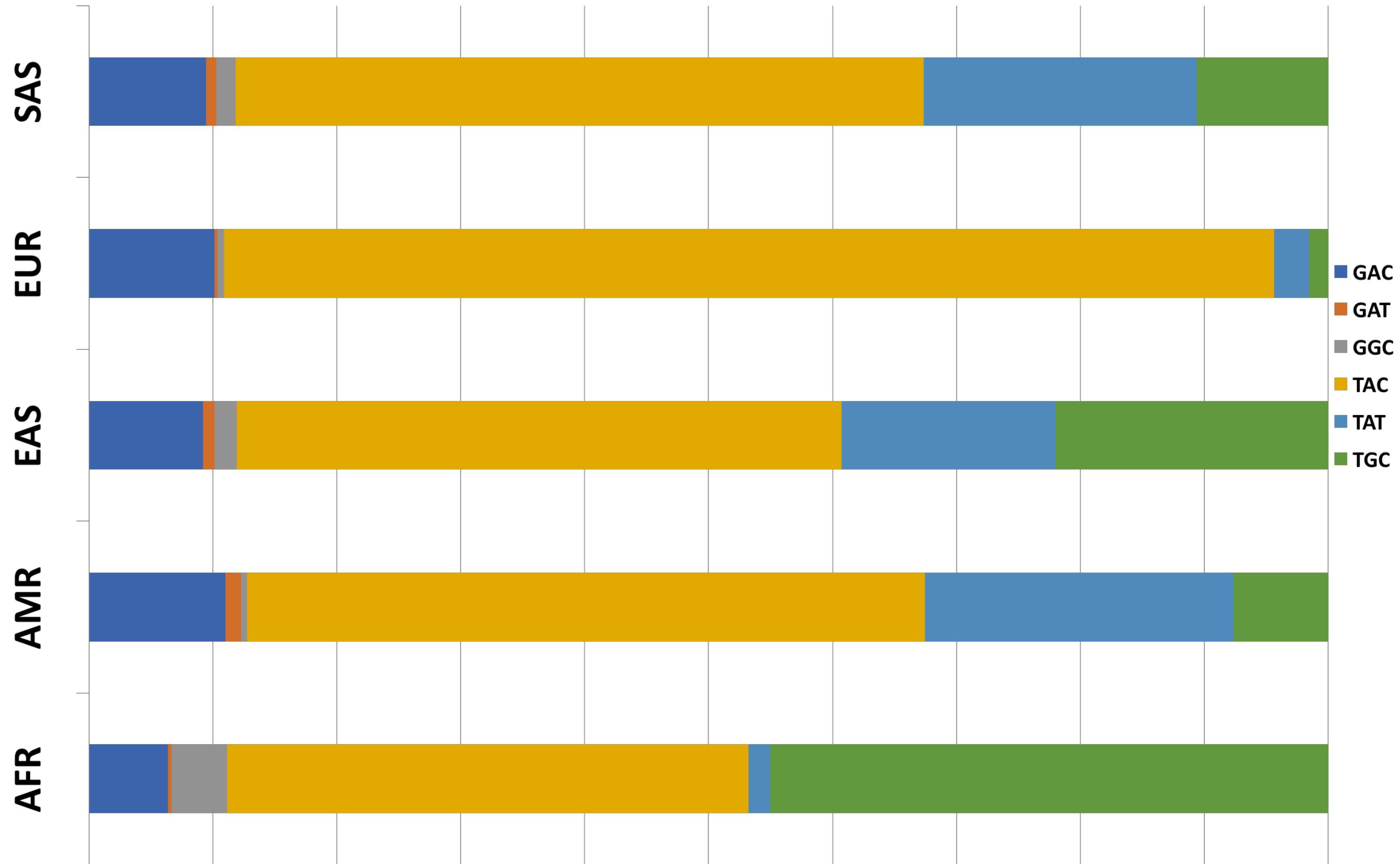
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61

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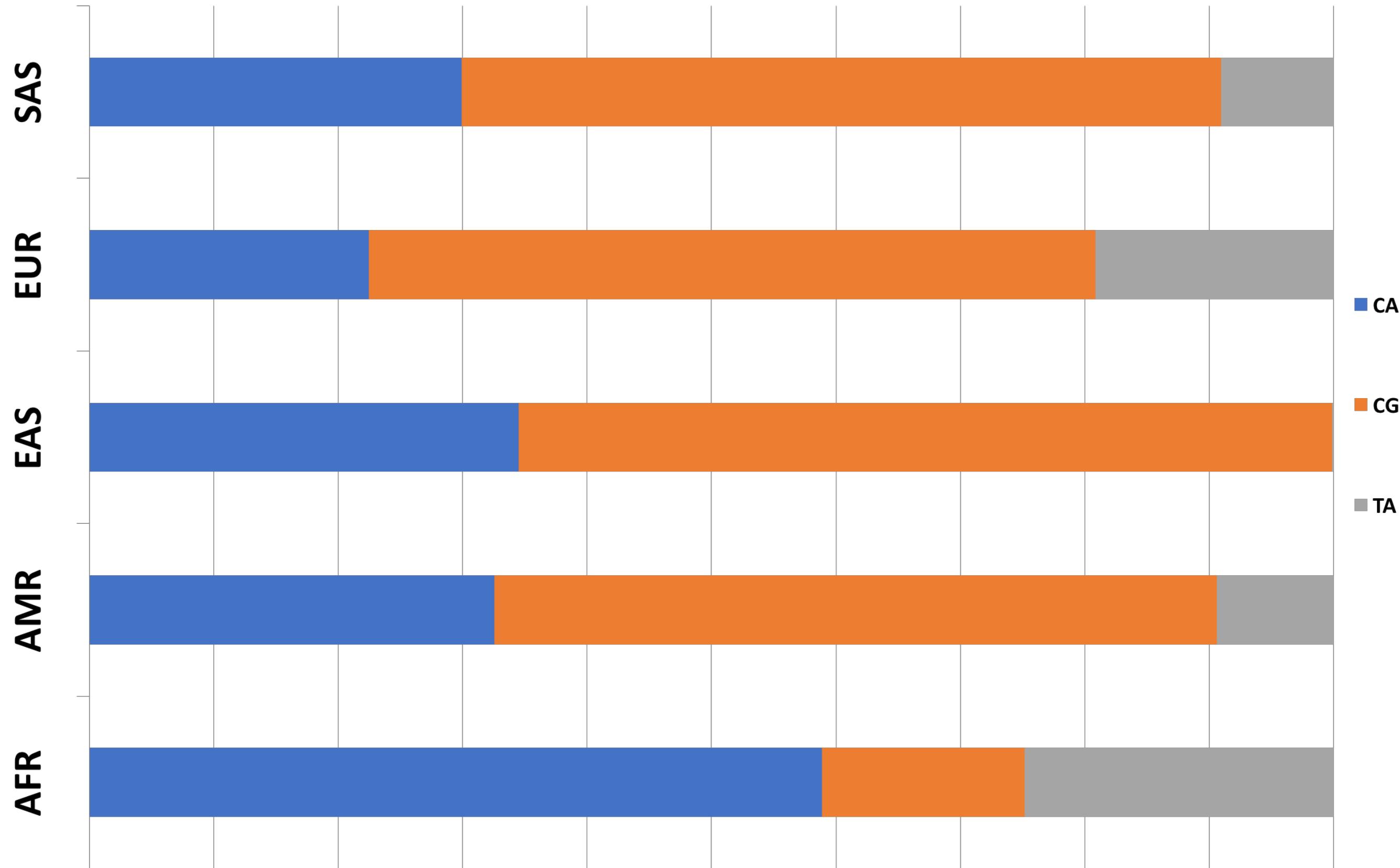
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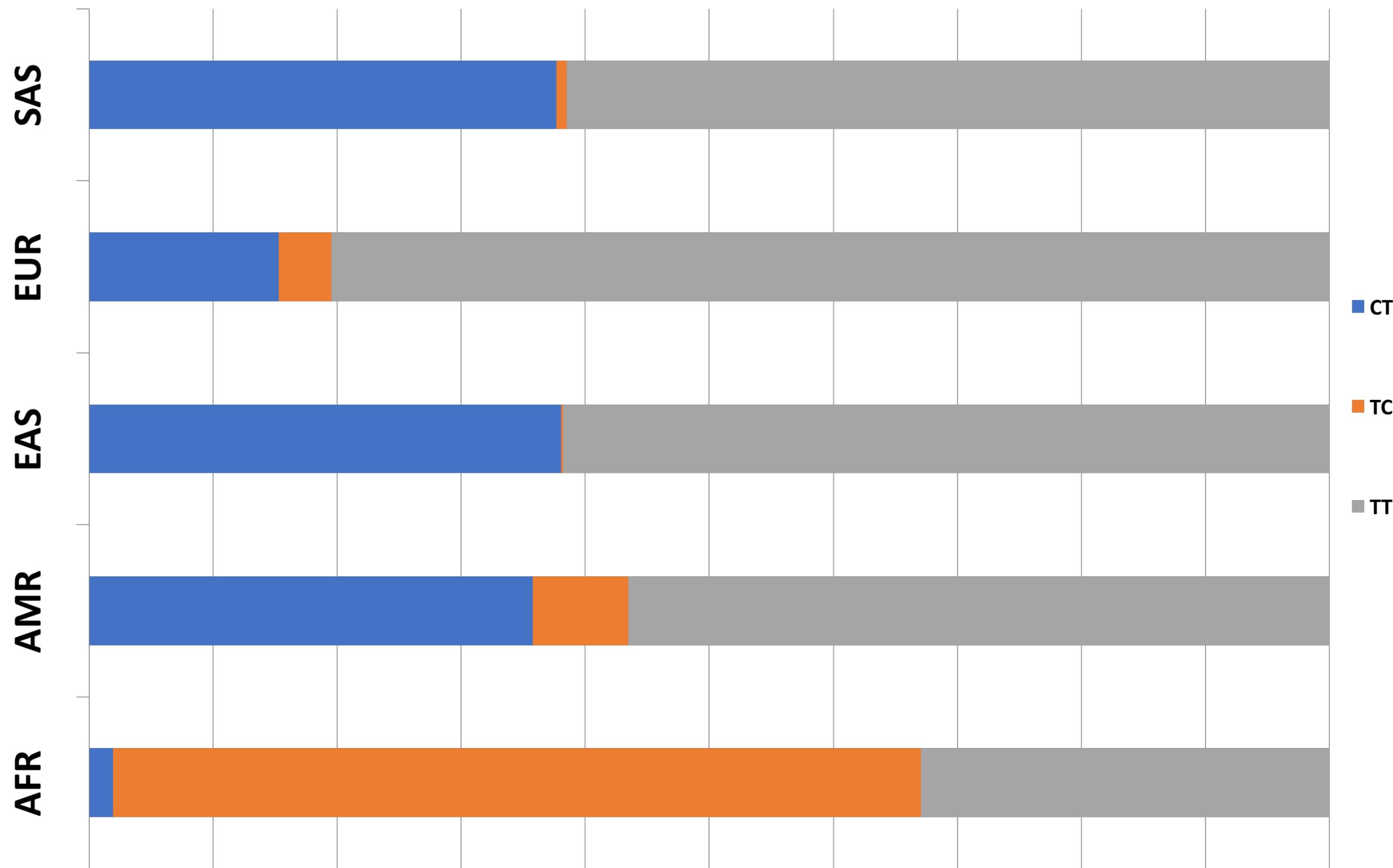
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GD
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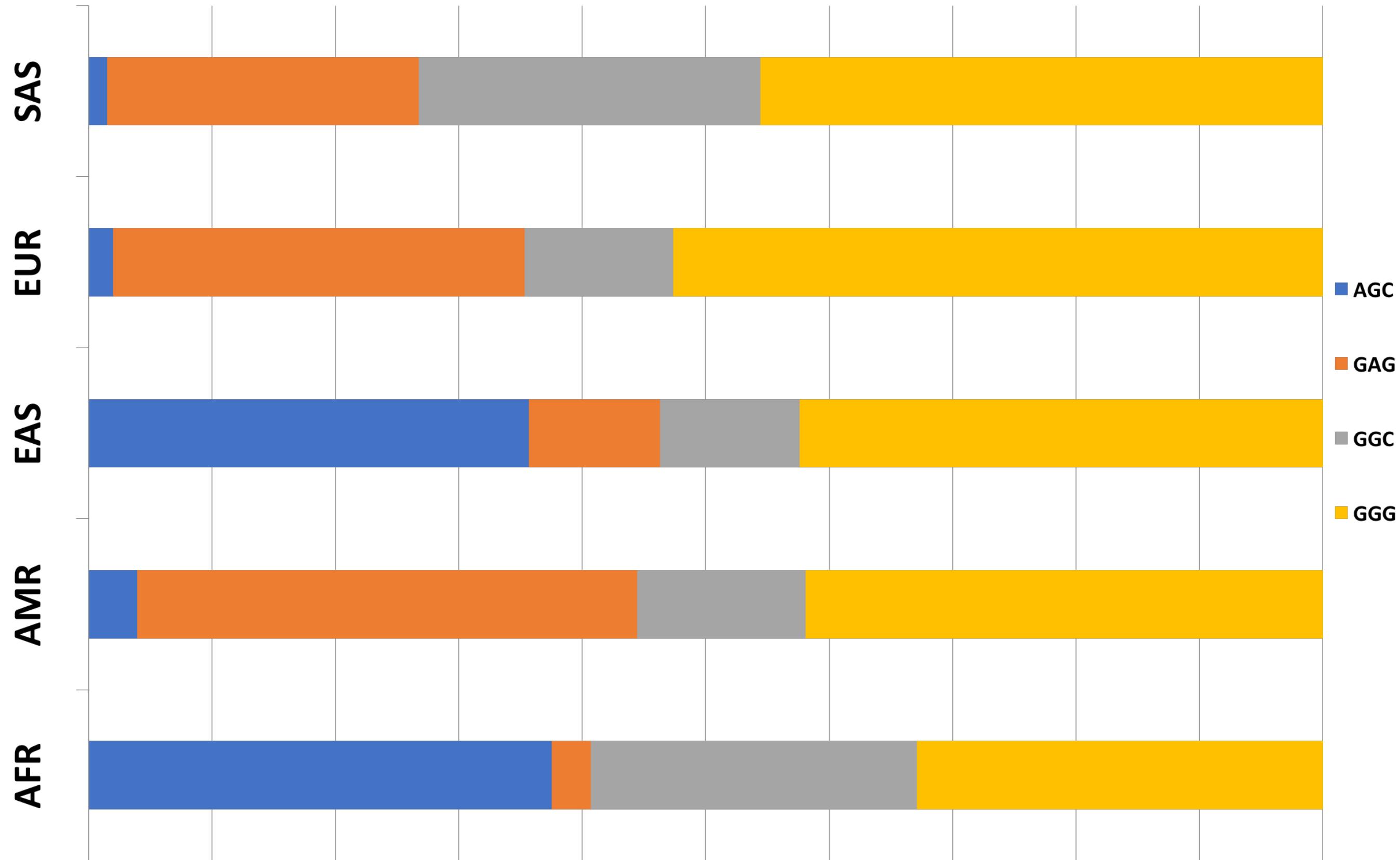
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XqH

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21

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GD
0.592

