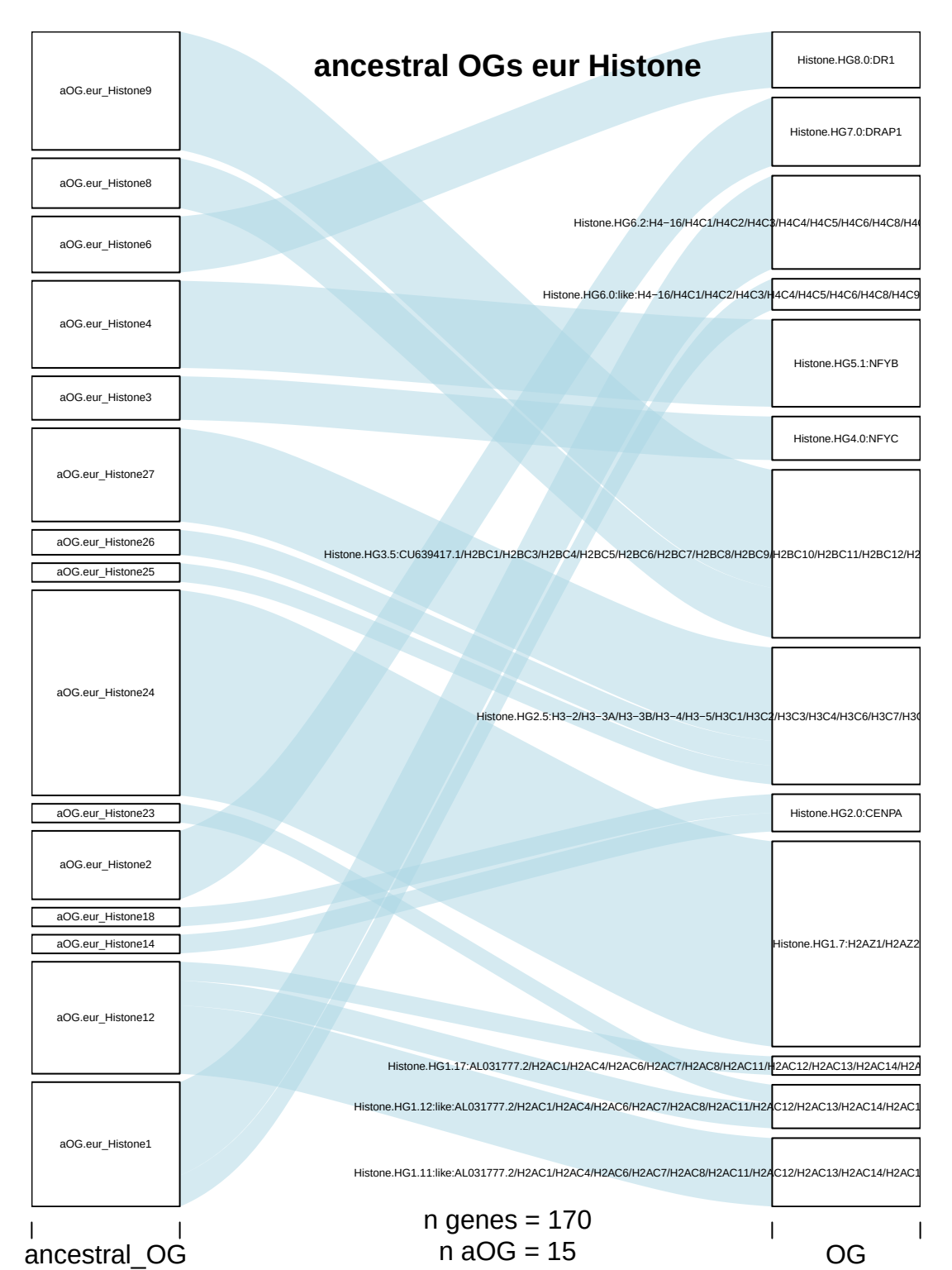
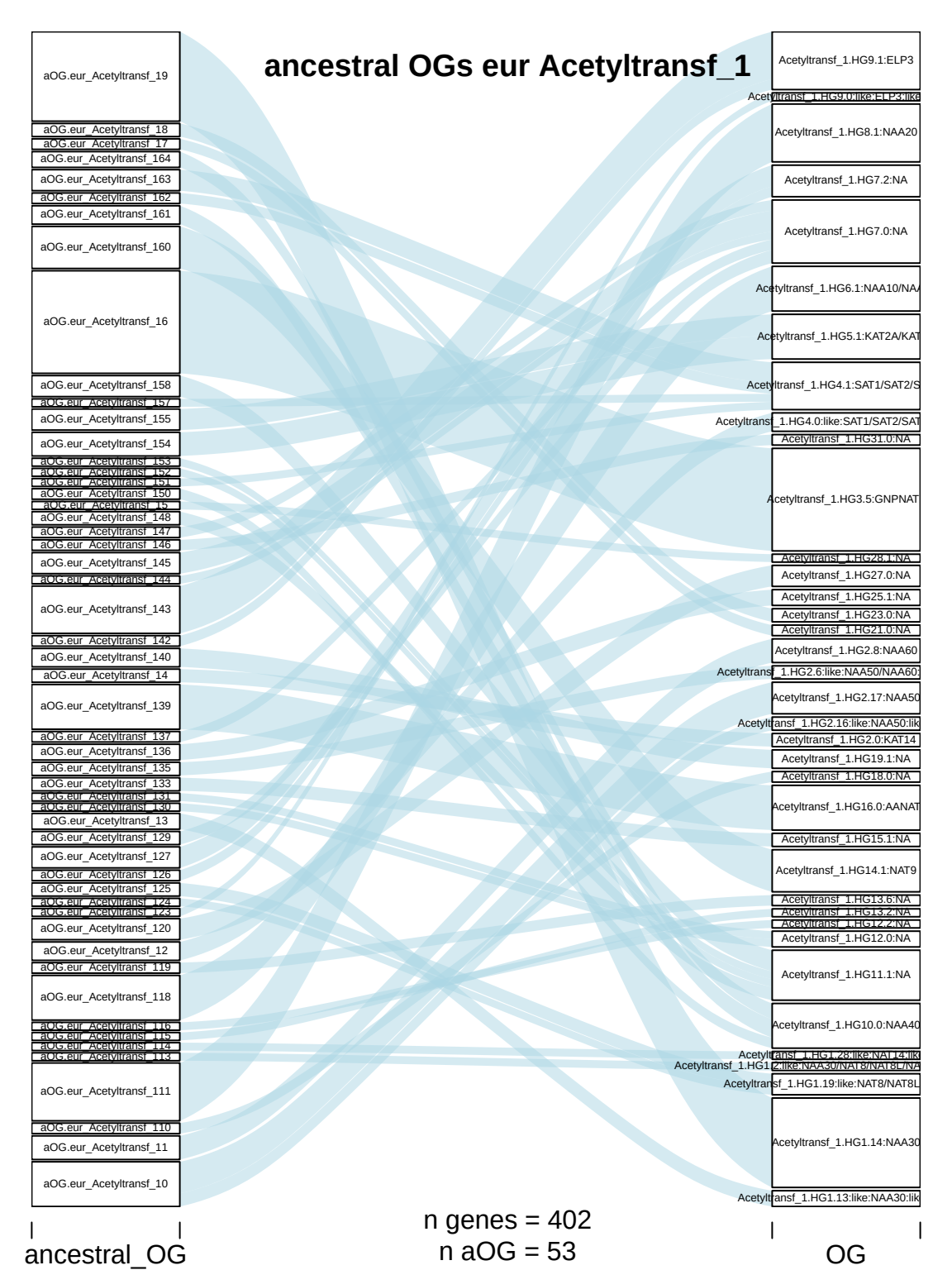

ancestral OGs eur Histone
aOG.eur_Histone9
aOG.eur_Histone8
aOG.eur_Histone6
aOG.eur_Histone4
aOG.eur_Histone3
aOG.eur_Histone27
aOG.eur_Histone26
aOG.eur_Histone25
aOG.eur_Histone24
aOG.eur_Histone23
aOG.eur_Histone2
aOG.eur_Histone18
aOG.eur_Histone14
aOG.eur_Histone12
aOG.eur_Histone1
Histone.HG8.0:DR1
Histone.HG7.0:DRAP1
Histone.HG6.2:H4−16/H4C1/H4C2/H4C3/H4C4/H4C5/H4C6/H4C8/H4
Histone.HG6.0:like:H4−16/H4C1/H4C2/H4C3/H4C4/H4C5/H4C6/H4C8/H4C9
Histone.HG5.1:NFYB
Histone.HG4.0:NFYC
Histone.HG3.5:CU639417.1/H2BC1/H2BC3/H2BC4/H2BC5/H2BC6/H2BC7/H2BC8/H2BC9/H2BC10/H2BC11/H2BC12/H2
Histone.HG2.5:H3−2/H3−3A/H3−3B/H3−4/H3−5/H3C1/H3C2/H3C3/H3C4/H3C6/H3C7/H3
Histone.HG2.0:CENPA
Histone.HG1.7:H2AZ1/H2AZ2
Histone.HG1.17:AL031777.2/H2AC1/H2AC4/H2AC6/H2AC7/H2AC8/H2AC11/H2AC12/H2AC13/H2AC14/H2A
Histone.HG1.12:like:AL031777.2/H2AC1/H2AC4/H2AC6/H2AC7/H2AC8/H2AC11/H2AC12/H2AC13/H2AC14/H2AC1
Histone.HG1.11:like:AL031777.2/H2AC1/H2AC4/H2AC6/H2AC7/H2AC8/H2AC11/H2AC12/H2AC13/H2AC14/H2AC1
n genes = 170
n aOG = 15
ancestral_OG
OG

ancestral OGs eur LinkerHistone

=
n genes =


ancestral OGs eur Acetyltransf_1
aOG.eur_Acetyltransf_19
aOG.eur_Acetyltransf_18
aOG.eur_Acetyltransf_17
aOG.eur_Acetyltransf_164
aOG.eur_Acetyltransf_163
aOG.eur_Acetyltransf_162
aOG.eur_Acetyltransf_161
aOG.eur_Acetyltransf_160
aOG.eur_Acetyltransf_16
aOG.eur_Acetyltransf_158
aOG.eur_Acetyltransf_157
aOG.eur_Acetyltransf_155
aOG.eur_Acetyltransf_154
aOG.eur_Acetyltransf_153
aOG.eur_Acetyltransf_152
aOG.eur_Acetyltransf_151
aOG.eur_Acetyltransf_150
aOG.eur_Acetyltransf_15
aOG.eur_Acetyltransf_148
aOG.eur_Acetyltransf_147
aOG.eur_Acetyltransf_146
aOG.eur_Acetyltransf_145
aOG.eur_Acetyltransf_144
aOG.eur_Acetyltransf_143
aOG.eur_Acetyltransf_142
aOG.eur_Acetyltransf_140
aOG.eur_Acetyltransf_14
aOG.eur_Acetyltransf_139
aOG.eur_Acetyltransf_137
aOG.eur_Acetyltransf_136
aOG.eur_Acetyltransf_135
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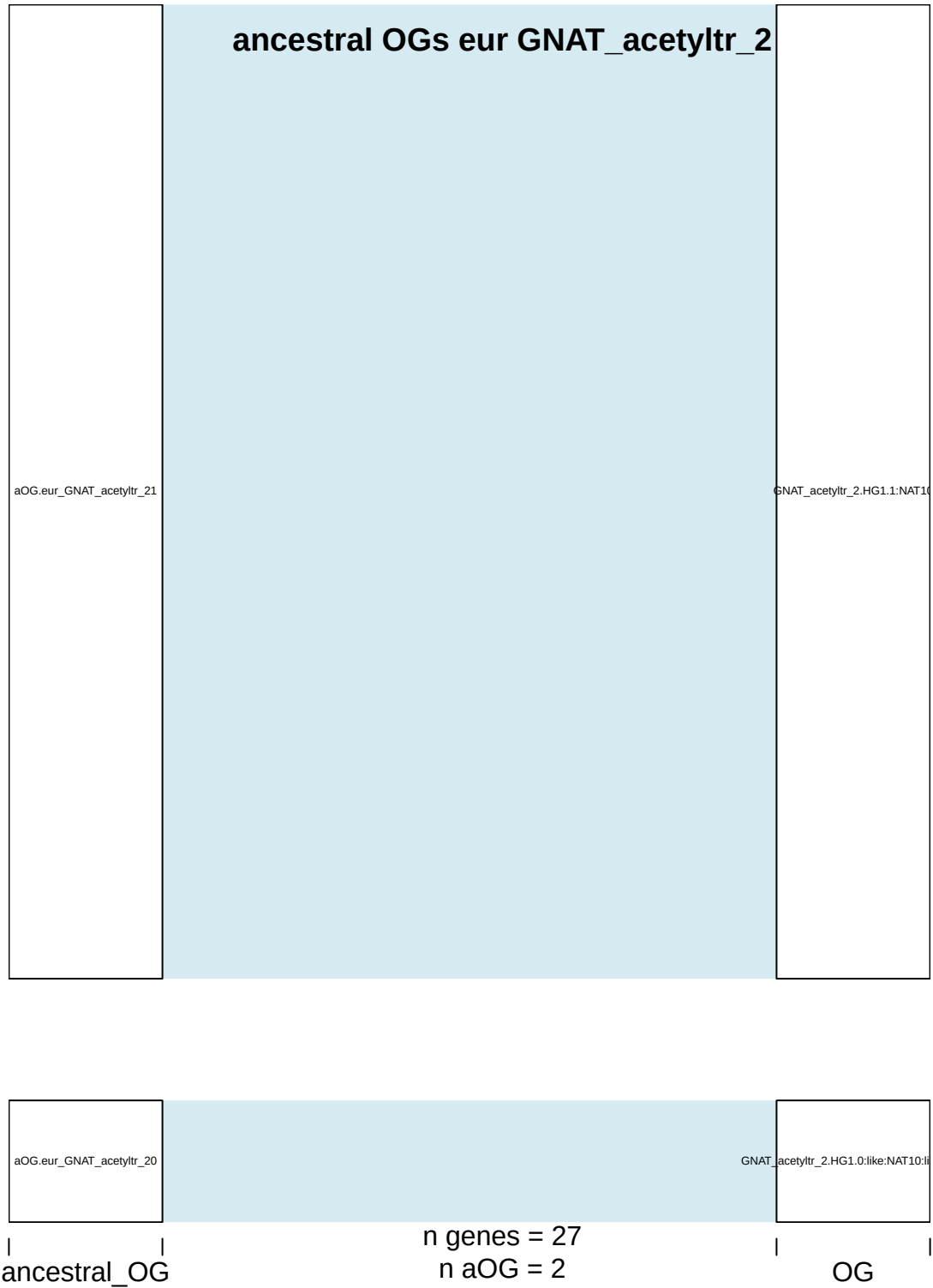
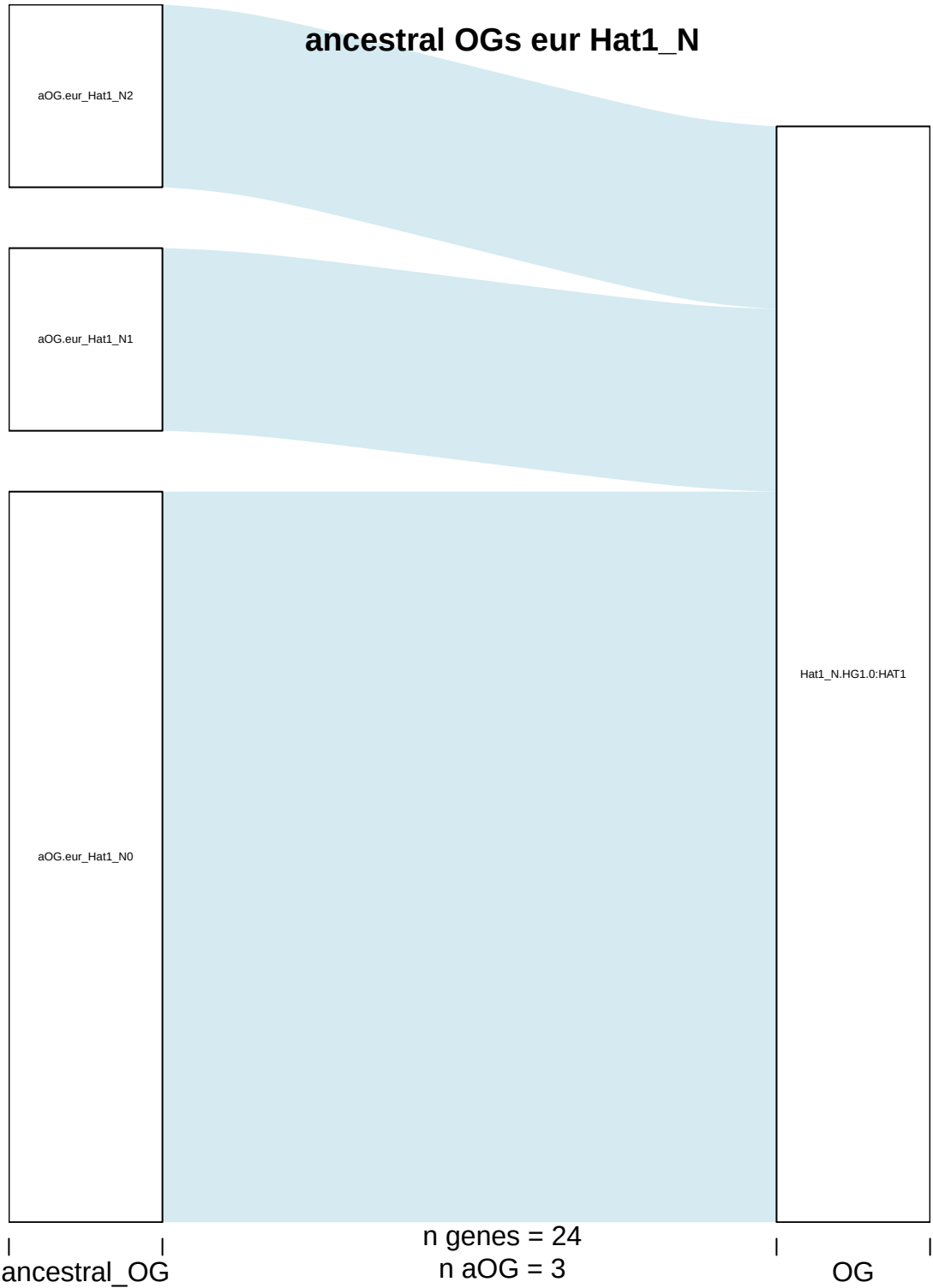
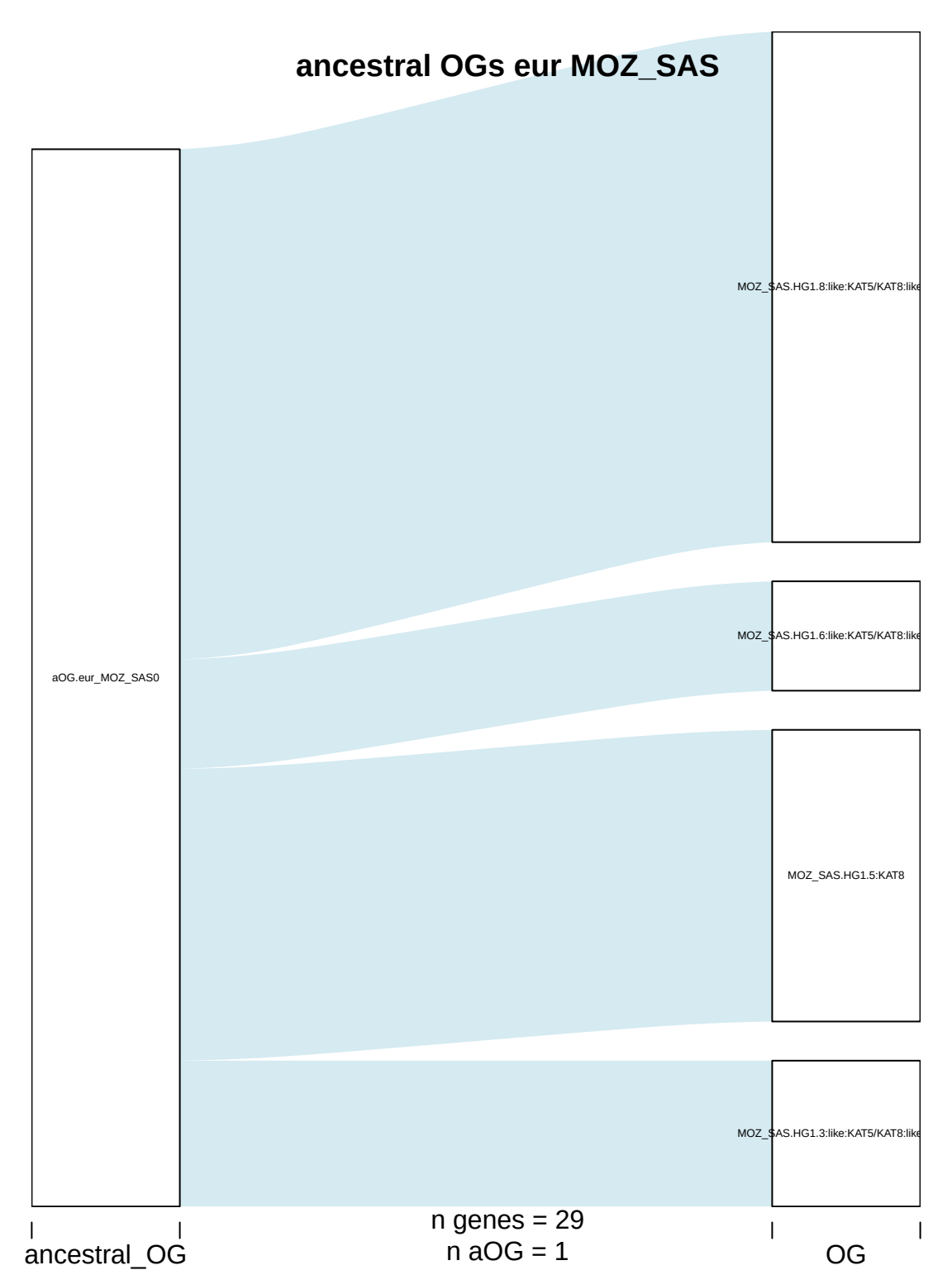
aOG.eur_Acetyltransf_125
aOG.eur_Acetyltransf_124
aOG.eur_Acetyltransf_123
aOG.eur_Acetyltransf_120
aOG.eur_Acetyltransf_12
aOG.eur_Acetyltransf_119
aOG.eur_Acetyltransf_118
aOG.eur_Acetyltransf_116
aOG.eur_Acetyltransf_115
aOG.eur_Acetyltransf_114
aOG.eur_Acetyltransf_113
aOG.eur_Acetyltransf_111
aOG.eur_Acetyltransf_110
aOG.eur_Acetyltransf_11
aOG.eur_Acetyltransf_10
Acetyltransf_1.HG9.1:ELP3
Acetyltransf_1.HG9.0:like:ELP3:like
Acetyltransf_1.HG8.1:NAA20
Acetyltransf_1.HG7.2:NA
Acetyltransf_1.HG7.0:NA
Acetyltransf_1.HG6.1:NAA10/NA
Acetyltransf_1.HG5.1:KAT2A/KAT
Acetyltransf_1.HG4.1:SAT1/SAT2/S
Acetyltransf_1.HG4.0:like:SAT1/SAT2/SAT
Acetyltransf_1.HG31.0:NA
Acetyltransf_1.HG3.5:GNPNAT
Acetyltransf_1.HG28.1:NA
Acetyltransf_1.HG27.0:NA
Acetyltransf_1.HG25.1:NA
Acetyltransf_1.HG23.0:NA
Acetyltransf_1.HG21.0:NA
Acetyltransf_1.HG2.8:NAA60
Acetyltransf_1.HG2.6:like:NAA50/NAA60:
Acetyltransf_1.HG2.17:NAA50
Acetyltransf_1.HG2.16:like:NAA50:lik
Acetyltransf_1.HG2.0:KAT14
Acetyltransf_1.HG19.1:NA
Acetyltransf_1.HG18.0:NA
Acetyltransf_1.HG16.0:AANAT
Acetyltransf_1.HG15.1:NA
Acetyltransf_1.HG14.1:NAT9
Acetyltransf_1.HG13.6:NA
Acetyltransf_1.HG13.2:NA
Acetyltransf_1.HG12.2:NA
Acetyltransf_1.HG12.0:NA
Acetyltransf_1.HG11.1:NA
Acetyltransf_1.HG10.0:NAA40
Acetyltransf_1.HG1.28:like:NAT14:lik
Acetyltransf_1.HG1.2:like:NAA30/NAT8/NAT8L/NA
Acetyltransf_1.HG1.19:like:NAT8/NAT8L
Acetyltransf_1.HG1.14:NAA30
Acetyltransf_1.HG1.13:like:NAA30:lik
n genes = 402
n aOG = 53
ancestral_OG
OG

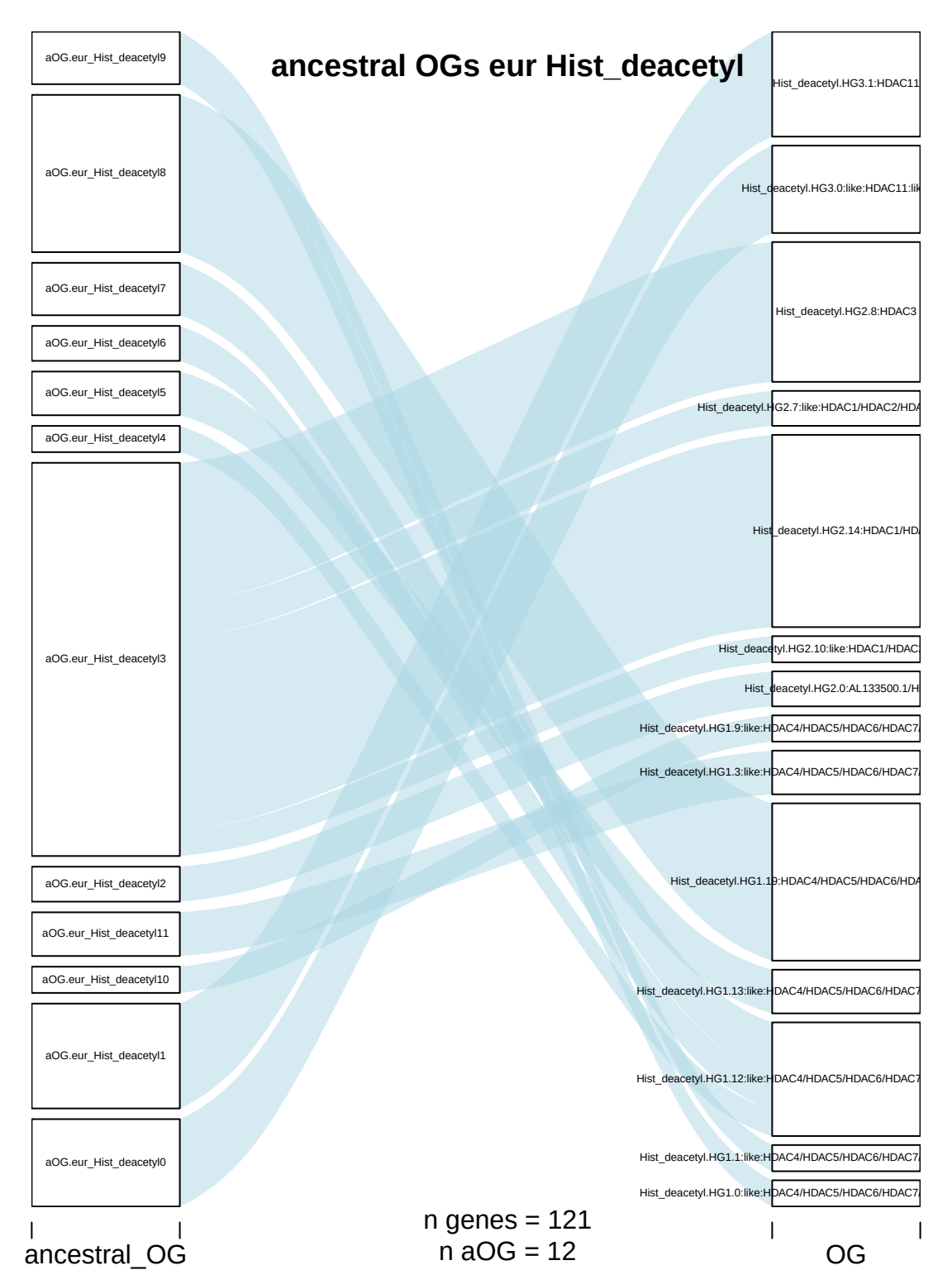

ancestral OGs eur GNAT_acetyltr_2
aOG.eur_GNAT_acetyltr_21
GNAT_acetyltr_2.HG1.1:NAT1
aOG.eur_GNAT_acetyltr_20
GNAT_acetyltr_2.HG1.0:like:NAT10:li
n genes = 27
n aOG = 2
ancestral_OG
OG


ancestral OGs eur Hat1_N
aOG.eur_Hat1_N2
aOG.eur_Hat1_N1
aOG.eur_Hat1_N0
Hat1_N.HG1.0:HAT1
n genes = 24
n aOG = 3
ancestral_OG
OG

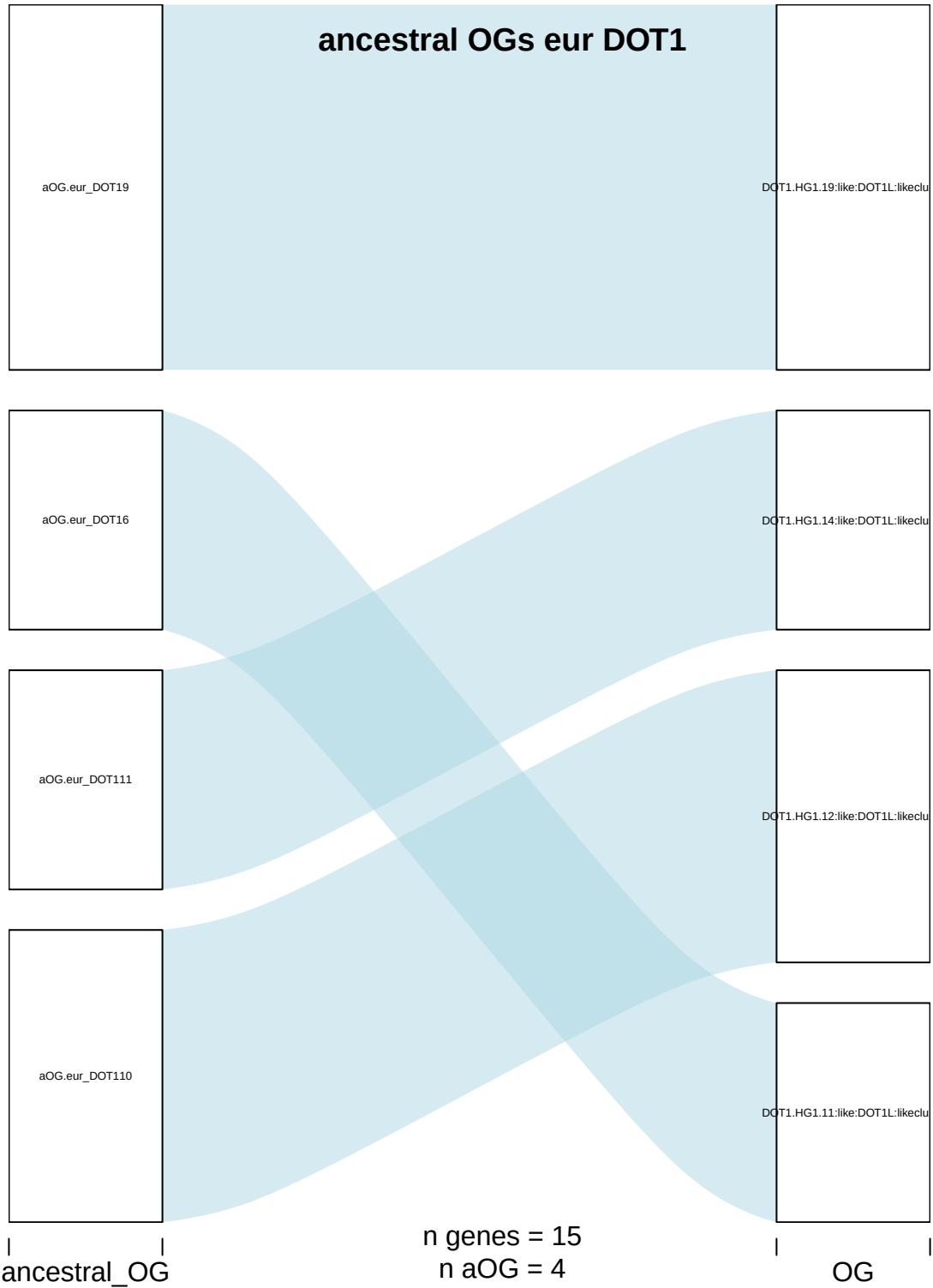
ancestral OGs eur KAT11

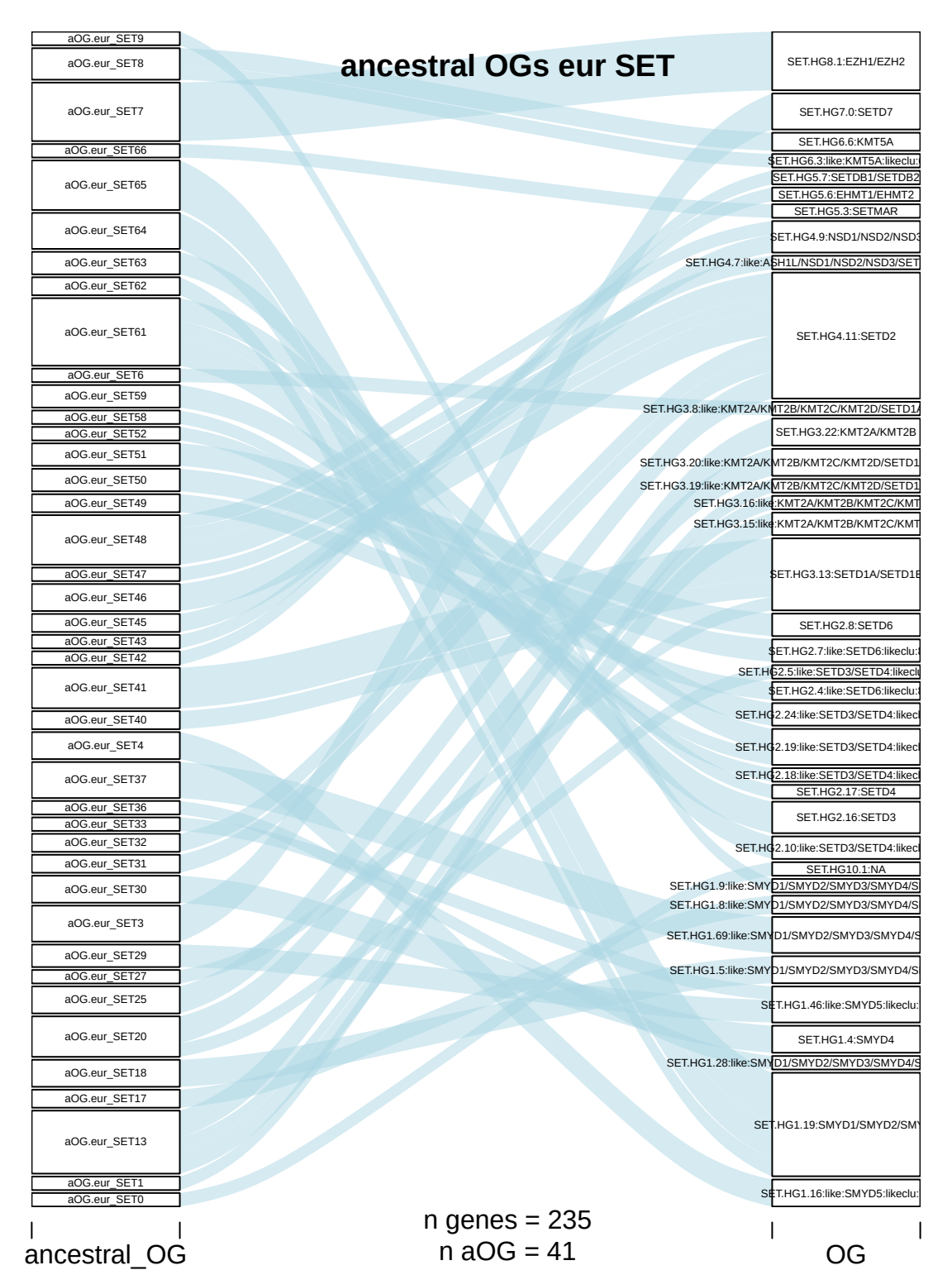
aOG.eur_KAT110 = KAT11.HG1.1:CREBBP/EP300
n genes = 6

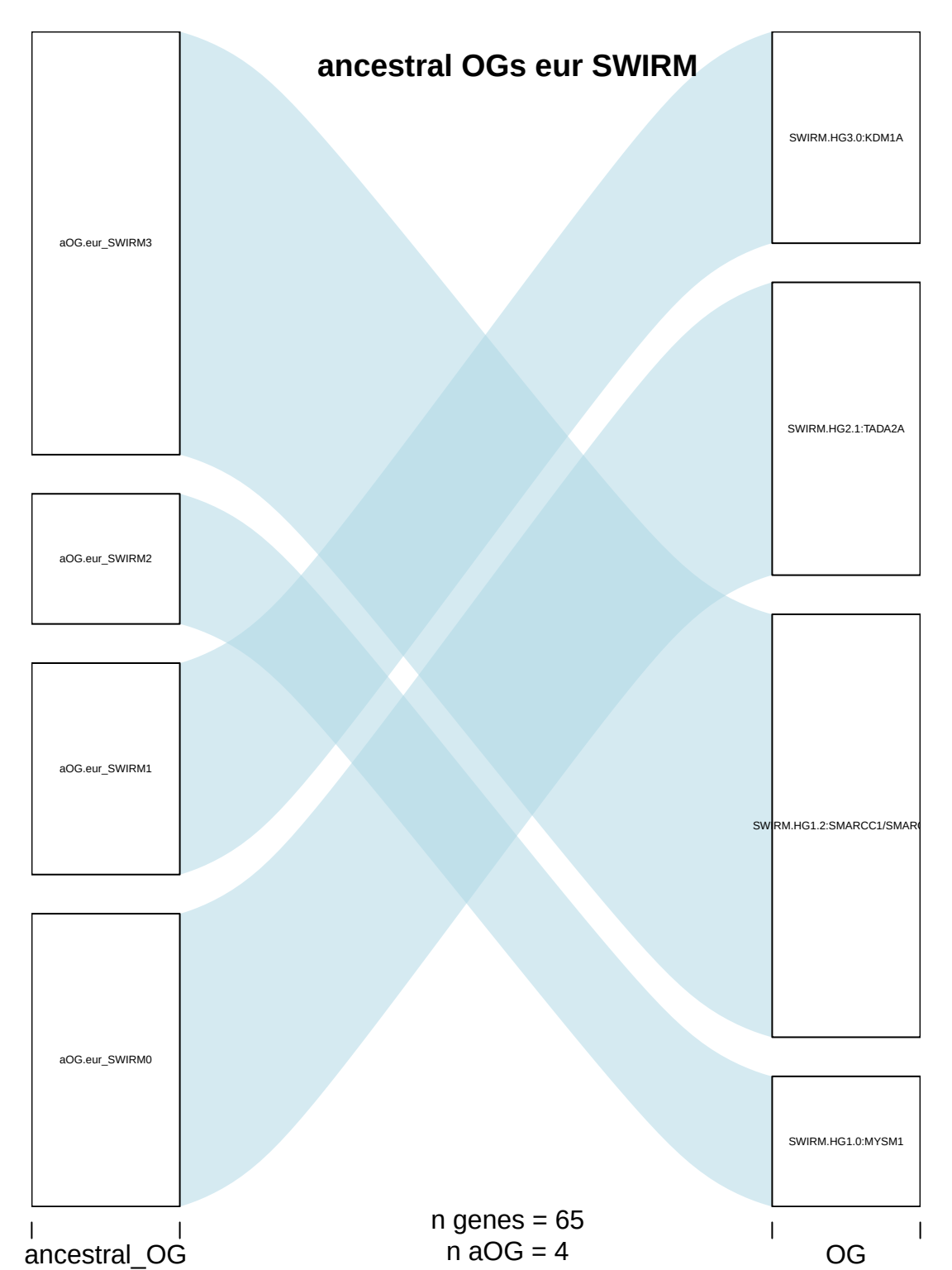

ancestral OGs eur MOZ_SAS
aOG.eur_MOZ_SAS0
MOZ_SAS.HG1.8:like:KAT5/KAT8:like
MOZ_SAS.HG1.6:like:KAT5/KAT8:like
MOZ_SAS.HG1.5:KAT8
MOZ_SAS.HG1.3:like:KAT5/KAT8:like
n genes = 29
n aOG = 1
ancestral_OG
OG

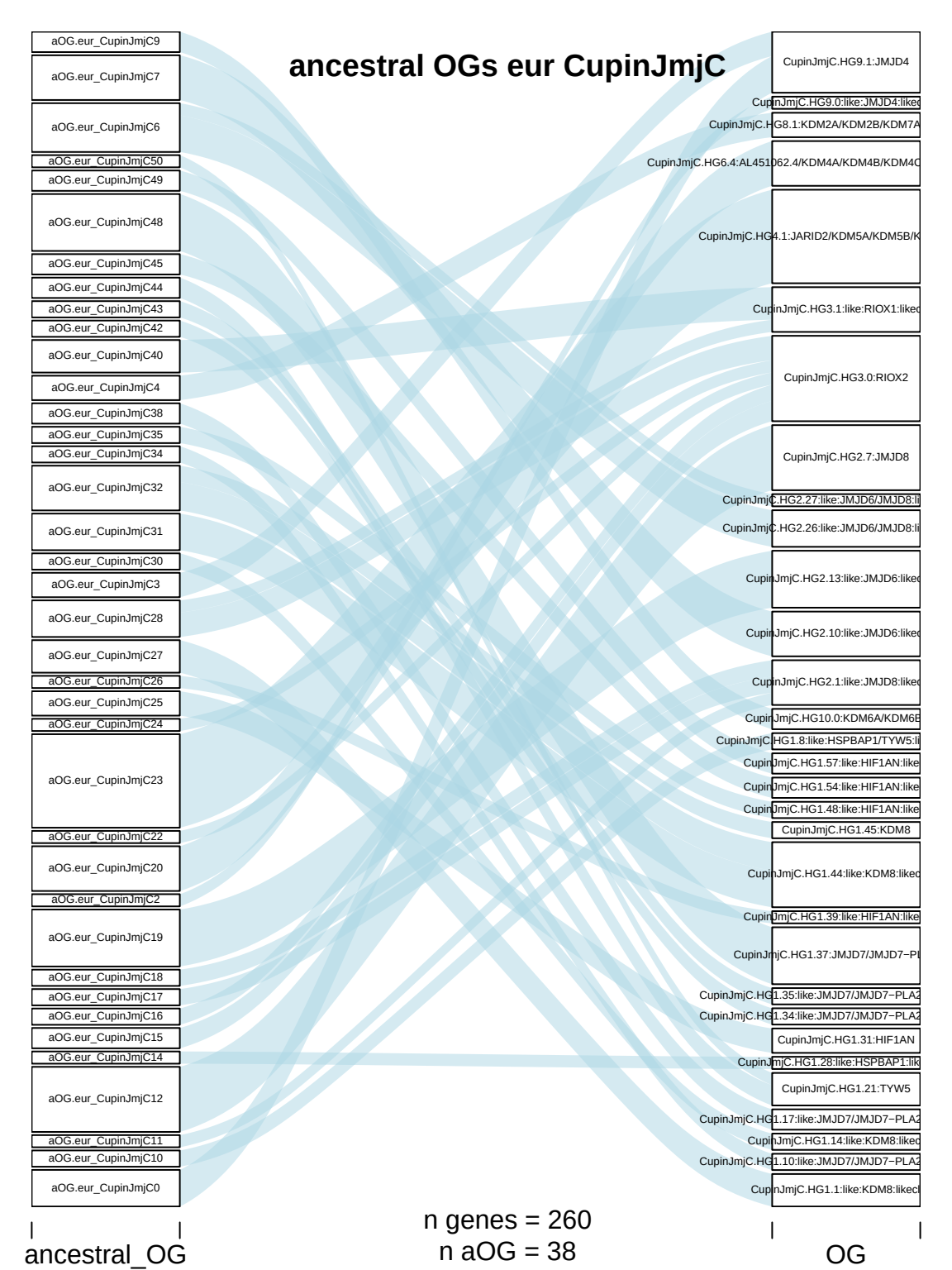

ancestral OGs eur Hist_deacetyl
aOG.eur_Hist_deacetyl9
aOG.eur_Hist_deacetyl8
aOG.eur_Hist_deacetyl7
aOG.eur_Hist_deacetyl6
aOG.eur_Hist_deacetyl5
aOG.eur_Hist_deacetyl4
aOG.eur_Hist_deacetyl3
aOG.eur_Hist_deacetyl2
aOG.eur_Hist_deacetyl11
aOG.eur_Hist_deacetyl10
aOG.eur_Hist_deacetyl1
aOG.eur_Hist_deacetyl0
Hist_deacetyl.HG3.1:HDAC11
Hist_deacetyl.HG3.0:like:HDAC11:lik
Hist_deacetyl.HG2.8:HDAC3
Hist_deacetyl.HG2.7:like:HDAC1/HDAC2/HDA
Hist_deacetyl.HG2.14:HDAC1/HDA
Hist_deacetyl.HG2.10:like:HDAC1/HDAC
Hist_deacetyl.HG2.0:AL133500.1/H
Hist_deacetyl.HG1.9:like:HDAC4/HDAC5/HDAC6/HDAC7
Hist_deacetyl.HG1.3:like:HDAC4/HDAC5/HDAC6/HDAC7
Hist_deacetyl.HG1.19:HDAC4/HDAC5/HDAC6/HDA
Hist_deacetyl.HG1.13:like:HDAC4/HDAC5/HDAC6/HDAC7
Hist_deacetyl.HG1.12:like:HDAC4/HDAC5/HDAC6/HDAC7
Hist_deacetyl.HG1.1:like:HDAC4/HDAC5/HDAC6/HDAC7
Hist_deacetyl.HG1.0:like:HDAC4/HDAC5/HDAC6/HDAC7
n genes = 121
n aOG = 12
ancestral_OG
OG


ancestral OGs eur SIR2
aOG.eur_SIR29
aOG.eur_SIR28
aOG.eur_SIR26
aOG.eur_SIR25
aOG.eur_SIR229
aOG.eur_SIR227
aOG.eur_SIR226
aOG.eur_SIR224
aOG.eur_SIR222
aOG.eur_SIR221
aOG.eur_SIR22
aOG.eur_SIR219
aOG.eur_SIR218
aOG.eur_SIR217
aOG.eur_SIR216
aOG.eur_SIR215
aOG.eur_SIR214
aOG.eur_SIR213
aOG.eur_SIR212
aOG.eur_SIR211
aOG.eur_SIR210
aOG.eur_SIR21
aOG.eur_SIR20
SIR2.HG3.9:like:SIRT6:likeclu:1
SIR2.HG3.8:like:SIRT6:likeclu:1
SIR2.HG3.6:like:SIRT6:likeclu:1
SIR2.HG3.2:like:SIRT6:likeclu:1
SIR2.HG3.14:like:SIRT6:likeclu:
SIR2.HG3.12:like:SIRT6:likeclu:
SIR2.HG3.10:like:SIRT6:likeclu:
SIR2.HG3.1:SIRT6
SIR2.HG2.1:SIRT4/SIRT5
SIR2.HG2.0:like:SIRT4/SIRT5:like
SIR2.HG1.7:like:SIRT2/SIRT3:likeclu
SIR2.HG1.4:like:SIRT2/SIRT3:likeclu
SIR2.HG1.3:SIRT1
SIR2.HG1.16:like:SIRT2/SIRT3:likecl
SIR2.HG1.14:SIRT2
SIR2.HG1.10:like:SIRT2/SIRT3:likecl
n genes = 169
n aOG = 23
ancestral_OG
OG


ancestral OGs eur DOT1
aOG.eur_DOT19
aOG.eur_DOT16
aOG.eur_DOT111
aOG.eur_DOT110
DOT1.HG1.19:like:DOT1L:likeclu
DOT1.HG1.14:like:DOT1L:likeclu
DOT1.HG1.12:like:DOT1L:likeclu
DOT1.HG1.11:like:DOT1L:likeclu
n genes = 15
n aOG = 4
ancestral_OG
OG

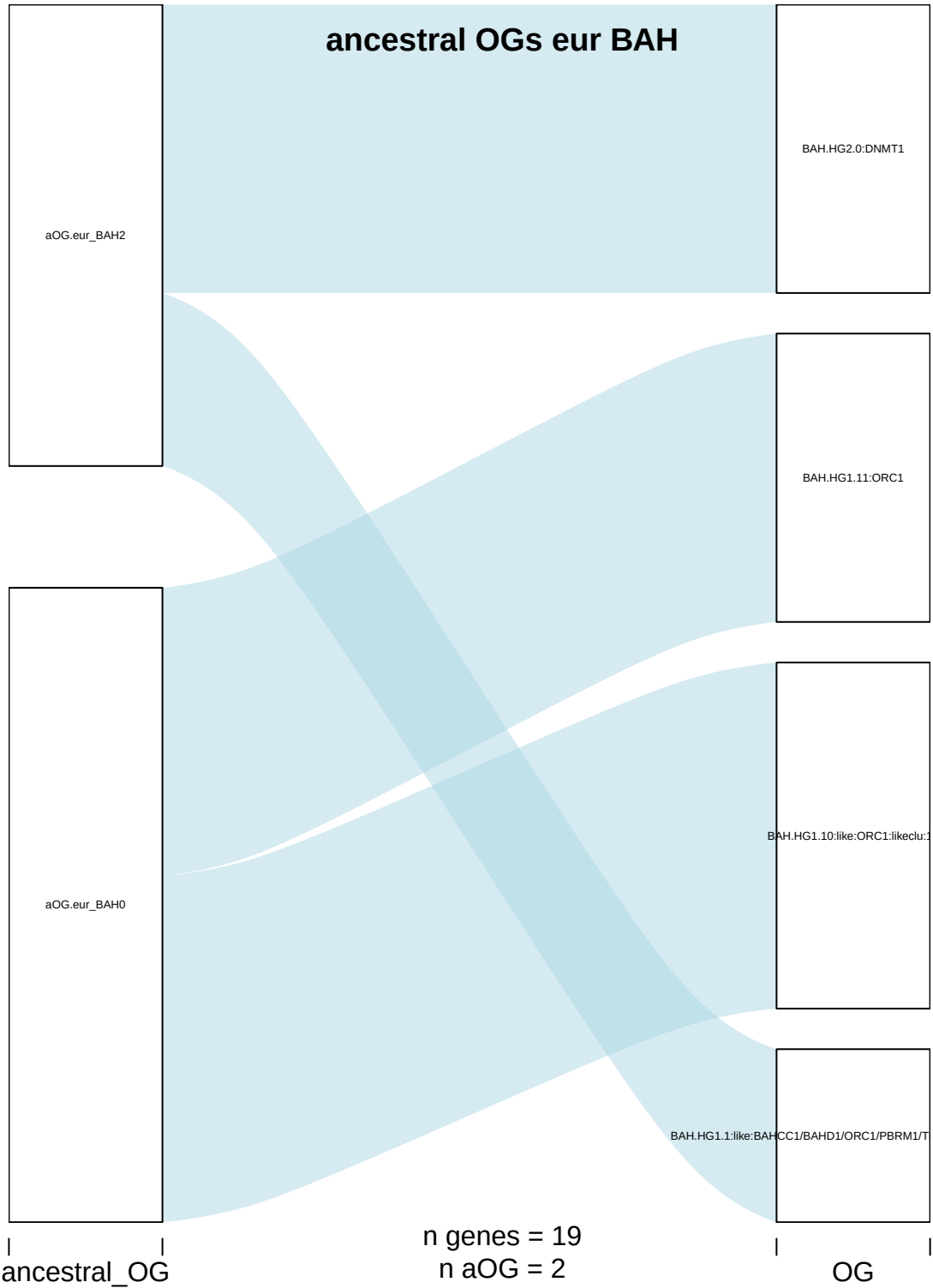

ancestral OGs eur SET
aOG.eur_SET9
aOG.eur_SET8
aOG.eur_SET7
aOG.eur_SET66
aOG.eur_SET65
aOG.eur_SET64
aOG.eur_SET63
aOG.eur_SET62
aOG.eur_SET61
aOG.eur_SET6
aOG.eur_SET59
aOG.eur_SET58
aOG.eur_SET52
aOG.eur_SET51
aOG.eur_SET50
aOG.eur_SET49
aOG.eur_SET48
aOG.eur_SET47
aOG.eur_SET46
aOG.eur_SET45
aOG.eur_SET43
aOG.eur_SET42
aOG.eur_SET41
aOG.eur_SET40
aOG.eur_SET4
aOG.eur_SET37
aOG.eur_SET36
aOG.eur_SET33
aOG.eur_SET32
aOG.eur_SET31
aOG.eur_SET30
aOG.eur_SET3
aOG.eur_SET29
aOG.eur_SET27
aOG.eur_SET25
aOG.eur_SET20
aOG.eur_SET18
aOG.eur_SET17
aOG.eur_SET13
aOG.eur_SET1
aOG.eur_SET0
SET.HG8.1:EZH1/EZH2
SET.HG7.0:SETD7
SET.HG6.6:KMT5A
SET.HG6.3:like:KMT5A:likeclu
SET.HG5.7:SETDB1/SETDB2
SET.HG5.6:EHMT1/EHMT2
SET.HG5.3:SETMAR
SET.HG4.9:NSD1/NSD2/NSD
SET.HG4.7:like:ASH1L/NSD1/NSD2/NSD3/SET
SET.HG4.11:SETD2
SET.HG3.8:like:KMT2A/KMT2B/KMT2C/KMT2D/SETD1
SET.HG3.22:KMT2A/KMT2B
SET.HG3.20:like:KMT2A/KMT2B/KMT2C/KMT2D/SETD1
SET.HG3.19:like:KMT2A/KMT2B/KMT2C/KMT2D/SETD1
SET.HG3.16:like:KMT2A/KMT2B/KMT2C/KMT
SET.HG3.15:like:KMT2A/KMT2B/KMT2C/KMT
SET.HG3.13:SETD1A/SETD1B
SET.HG2.8:SETD6
SET.HG2.7:like:SETD6:likeclu
SET.HG2.5:like:SETD3/SETD4:likecl
SET.HG2.4:like:SETD6:likeclu
SET.HG2.24:like:SETD3/SETD4:likecl
SET.HG2.19:like:SETD3/SETD4:likecl
SET.HG2.18:like:SETD3/SETD4:likecl
SET.HG2.17:SETD4
SET.HG2.16:SETD3
SET.HG2.10:like:SETD3/SETD4:likecl
SET.HG10.1:NA
SET.HG1.9:like:SMYD1/SMYD2/SMYD3/SMYD4/S
SET.HG1.8:like:SMYD1/SMYD2/SMYD3/SMYD4/S
SET.HG1.69:like:SMYD1/SMYD2/SMYD3/SMYD4/S
SET.HG1.5:like:SMYD1/SMYD2/SMYD3/SMYD4/S
SET.HG1.46:like:SMYD5:likeclu
SET.HG1.4:SMYD4
SET.HG1.28:like:SMYD1/SMYD2/SMYD3/SMYD4/S
SET.HG1.19:SMYD1/SMYD2/SM
SET.HG1.16:like:SMYD5:likeclu
n genes = 235
n aOG = 41
ancestral_OG
OG


ancestral OGs eur SWIRM
aOG.eur_SWIRM3
aOG.eur_SWIRM2
aOG.eur_SWIRM1
aOG.eur_SWIRM0
SWIRM.HG3.0:KDM1A
SWIRM.HG2.1:TADA2A
SWIRM.HG1.2:SMARCC1/SMAR
SWIRM.HG1.0:MYSM1
n genes = 65
n aOG = 4
ancestral_OG
OG

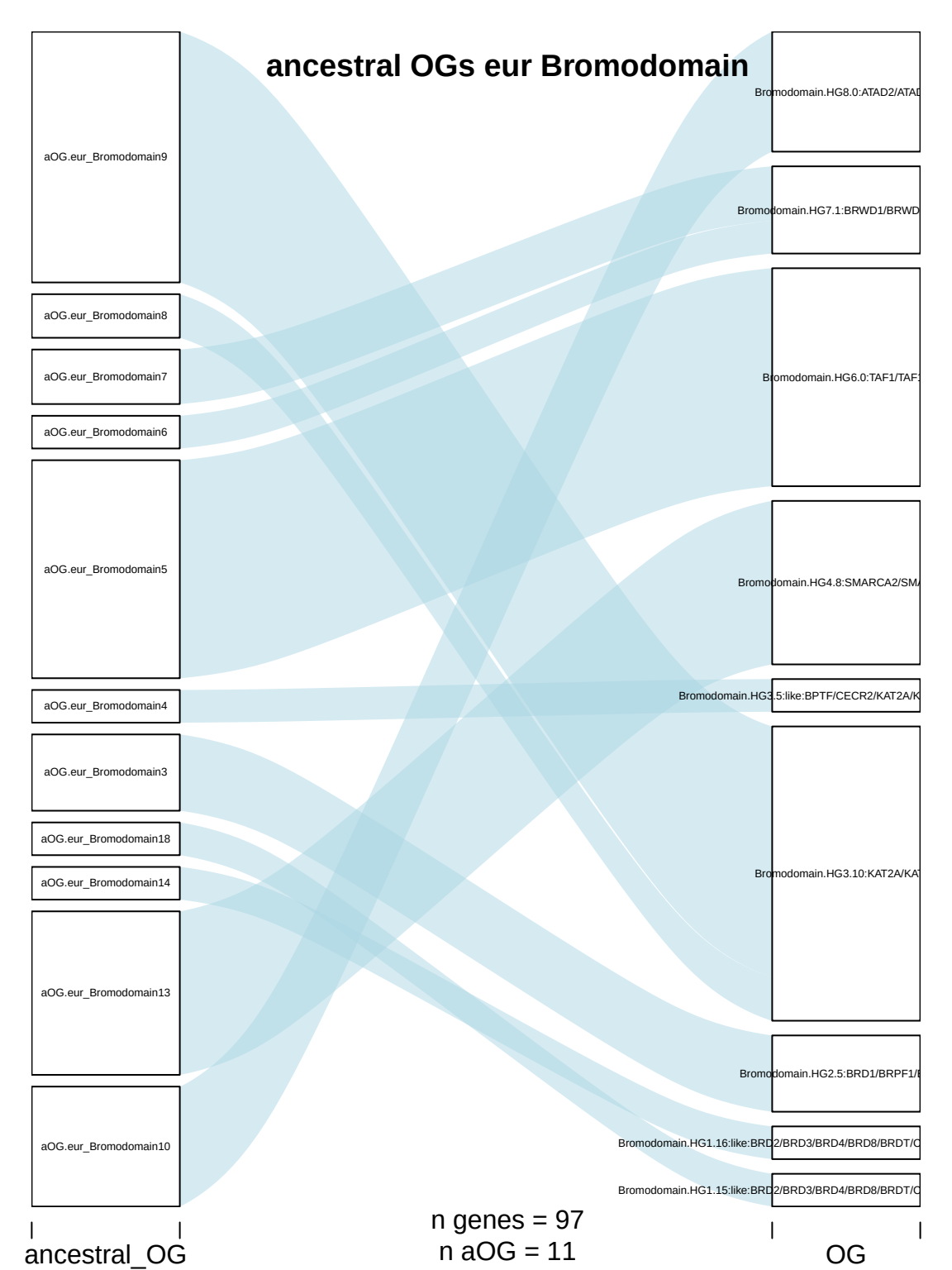

ancestral OGs eur CupinJmjC
aOG.eur_CupinJmjC9
aOG.eur_CupinJmjC7
aOG.eur_CupinJmjC6
aOG.eur_CupinJmjC50
aOG.eur_CupinJmjC49
aOG.eur_CupinJmjC48
aOG.eur_CupinJmjC45
aOG.eur_CupinJmjC44
aOG.eur_CupinJmjC43
aOG.eur_CupinJmjC42
aOG.eur_CupinJmjC40
aOG.eur_CupinJmjC4
aOG.eur_CupinJmjC38
aOG.eur_CupinJmjC35
aOG.eur_CupinJmjC34
aOG.eur_CupinJmjC32
aOG.eur_CupinJmjC31
aOG.eur_CupinJmjC30
aOG.eur_CupinJmjC3
aOG.eur_CupinJmjC28
aOG.eur_CupinJmjC27
aOG.eur_CupinJmjC26
aOG.eur_CupinJmjC25
aOG.eur_CupinJmjC24
aOG.eur_CupinJmjC23
aOG.eur_CupinJmjC22
aOG.eur_CupinJmjC20
aOG.eur_CupinJmjC2
aOG.eur_CupinJmjC19
aOG.eur_CupinJmjC18
aOG.eur_CupinJmjC17
aOG.eur_CupinJmjC16
aOG.eur_CupinJmjC15
aOG.eur_CupinJmjC14
aOG.eur_CupinJmjC12
aOG.eur_CupinJmjC11
aOG.eur_CupinJmjC10
aOG.eur_CupinJmjC0
CupinJmjC.HG9.1:JMJD4
CupinJmjC.HG9.0:like:JMJD4:like
CupinJmjC.HG8.1:KDM2A/KDM2B/KDM7A
CupinJmjC.HG6.4:AL451062.4/KDM4A/KDM4B/KDM4C
CupinJmjC.HG4.1:JARID2/KDM5A/KDM5B/K
CupinJmjC.HG3.1:like:RIOX1:like
CupinJmjC.HG3.0:RIOX2
CupinJmjC.HG2.7:JMJD8
CupinJmjC.HG2.27:like:JMJD6/JMJD8:li
CupinJmjC.HG2.26:like:JMJD6/JMJD8:li
CupinJmjC.HG2.13:like:JMJD6:like
CupinJmjC.HG2.10:like:JMJD6:like
CupinJmjC.HG2.1:like:JMJD8:like
CupinJmjC.HG10.0:KDM6A/KDM6B
CupinJmjC.HG1.8:like:HSPBAP1/TYW5:li
CupinJmjC.HG1.57:like:HIF1AN:like
CupinJmjC.HG1.54:like:HIF1AN:like
CupinJmjC.HG1.48:like:HIF1AN:like
CupinJmjC.HG1.45:KDM8
CupinJmjC.HG1.44:like:KDM8:like
CupinJmjC.HG1.39:like:HIF1AN:like
CupinJmjC.HG1.37:JMJD7/JMJD7−PL
CupinJmjC.HG1.35:like:JMJD7/JMJD7−PLA2
CupinJmjC.HG1.34:like:JMJD7/JMJD7−PLA2
CupinJmjC.HG1.31:HIF1AN
CupinJmjC.HG1.28:like:HSPBAP1:lik
CupinJmjC.HG1.21:TYW5
CupinJmjC.HG1.17:like:JMJD7/JMJD7−PLA2
CupinJmjC.HG1.14:like:KDM8:like
CupinJmjC.HG1.10:like:JMJD7/JMJD7−PLA2
CupinJmjC.HG1.1:like:KDM8:like
n genes = 260
n aOG = 38
ancestral_OG
OG

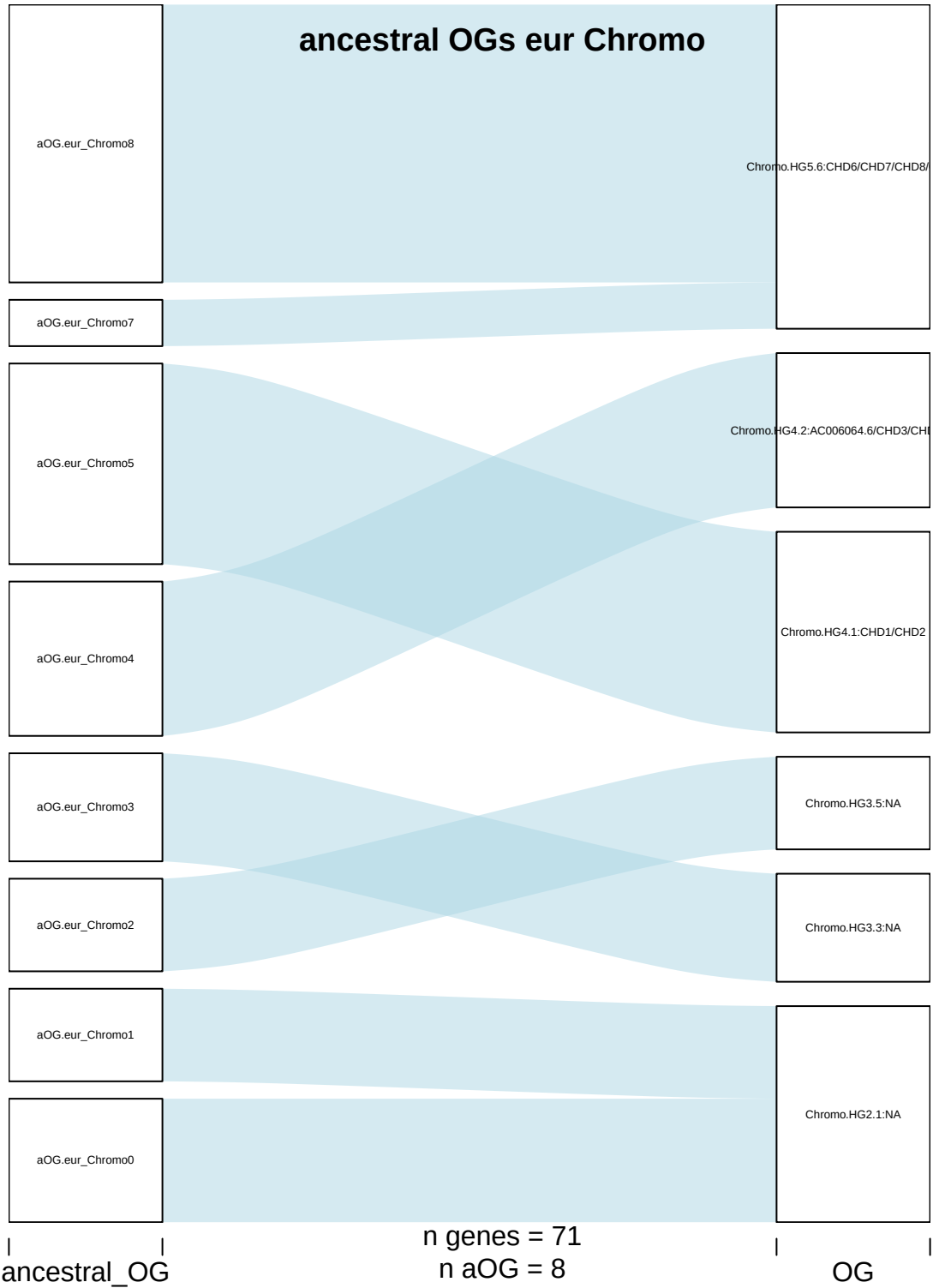
ancestral OGs eur ADD_ATRX

aOG.eur_ADD_ATRX0 = ADD_ATRX.HG1.0:ATRX
n genes = 3


ancestral OGs eur BAH
aOG.eur_BAH2
aOG.eur_BAH0
BAH.HG2.0:DNMT1
BAH.HG1.11:ORC1
BAH.HG1.10:like:ORC1:likeclu:1
BAH.HG1.1:like:BAHCC1/BAHD1/ORC1/PBRM1/T
n genes = 19
n aOG = 2
ancestral_OG
OG

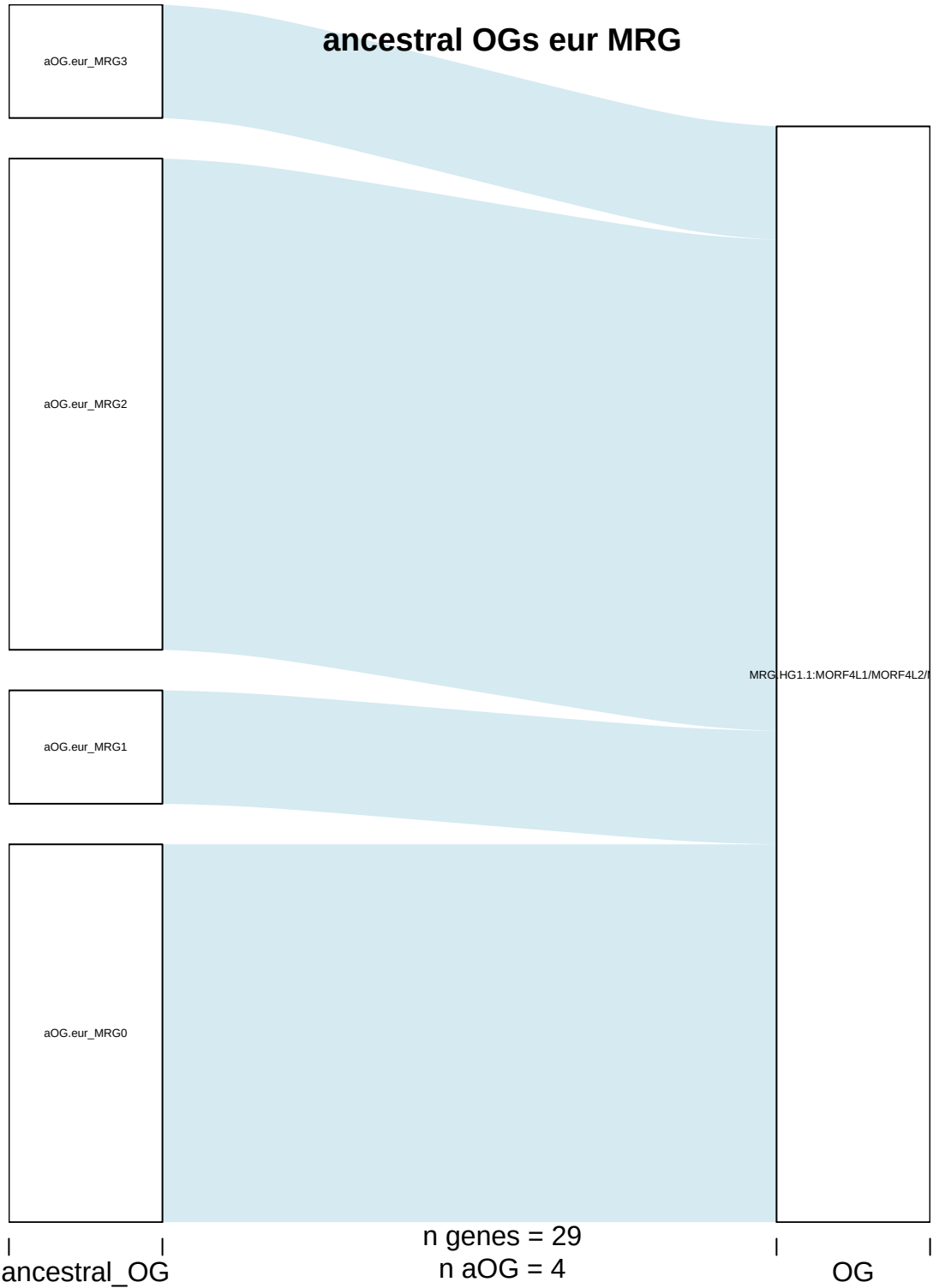
ancestral OGs eur BIR

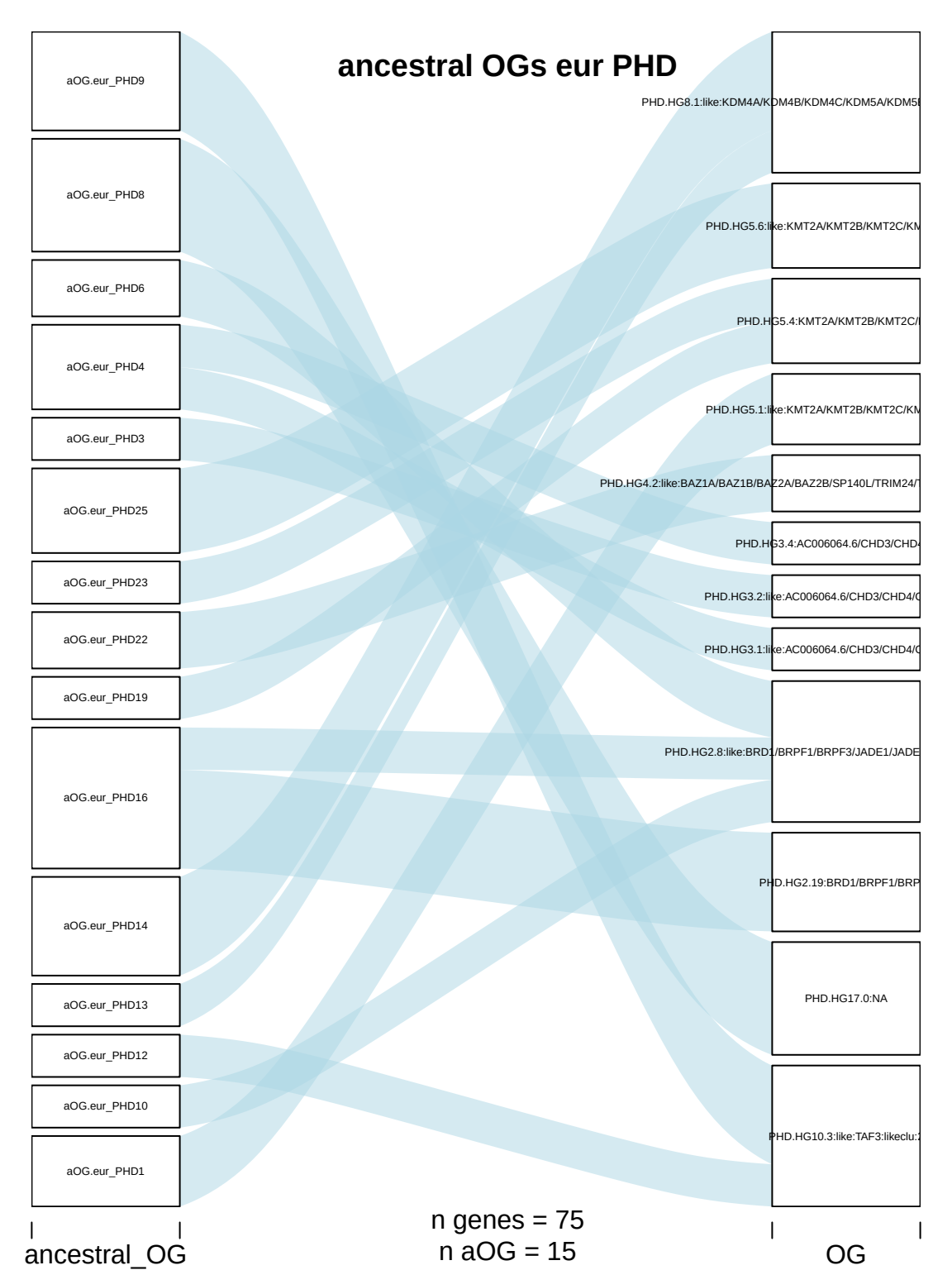

ancestral OGs eur Bromodomain
aOG.eur_Bromodomain9
aOG.eur_Bromodomain8
aOG.eur_Bromodomain7
aOG.eur_Bromodomain6
aOG.eur_Bromodomain5
aOG.eur_Bromodomain4
aOG.eur_Bromodomain3
aOG.eur_Bromodomain18
aOG.eur_Bromodomain14
aOG.eur_Bromodomain13
aOG.eur_Bromodomain10
Bromodomain.HG8.0:ATAD2/ATAD
Bromodomain.HG7.1:BRWD1/BRWD
Bromodomain.HG6.0:TAF1/TAF
Bromodomain.HG4.8:SMARCA2/SMA
Bromodomain.HG3.5:like:BPTF/CECR2/KAT2A/K
Bromodomain.HG3.10:KAT2A/KA
Bromodomain.HG2.5:BRD1/BRPF1/
Bromodomain.HG1.16:like:BRD2/BRD3/BRD4/BRD8/BRDT/C
Bromodomain.HG1.15:like:BRD2/BRD3/BRD4/BRD8/BRDT/C
n genes = 97
n aOG = 11
ancestral_OG
OG

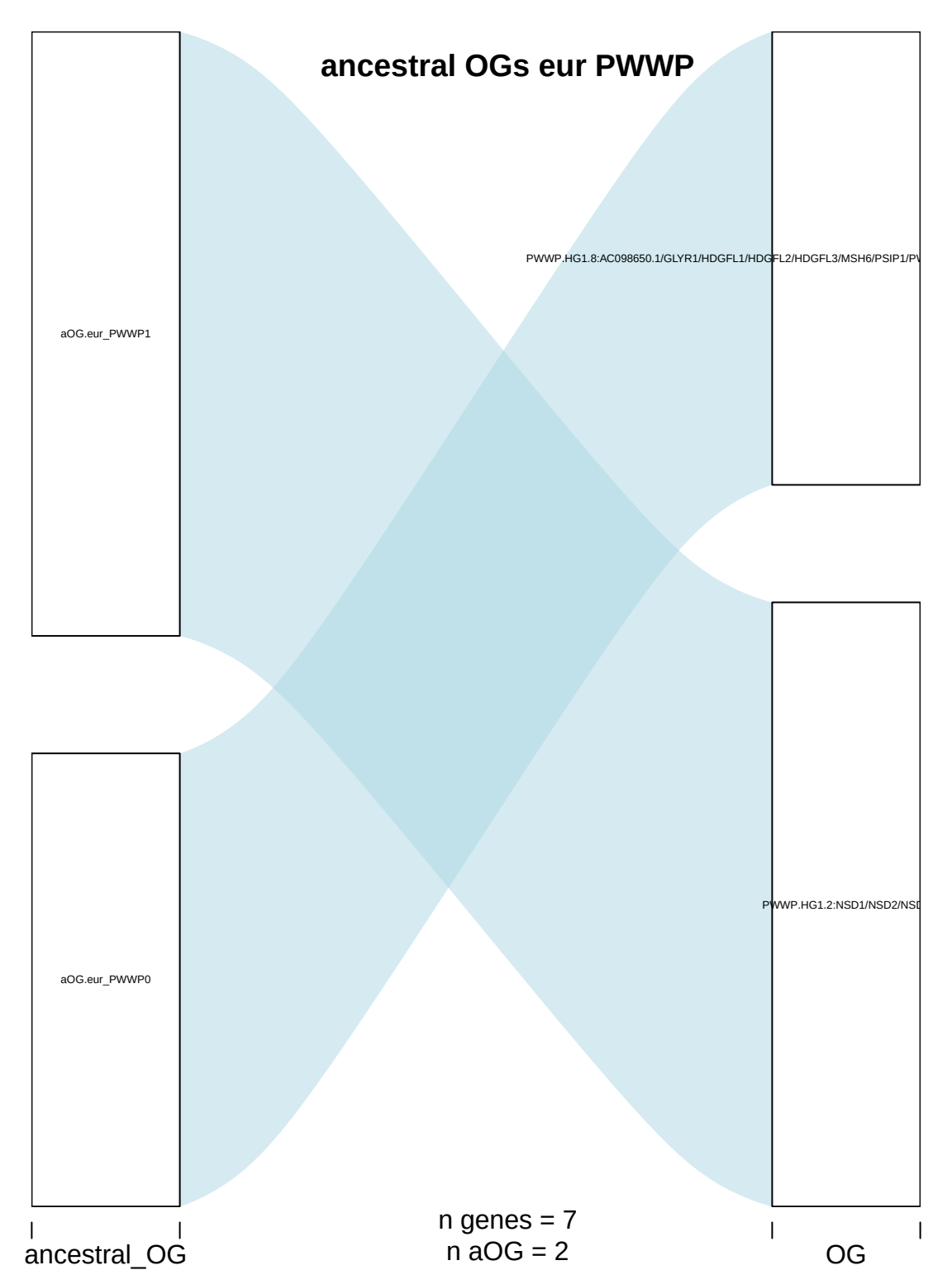

ancestral OGs eur Chromo
aOG.eur_Chromo8
aOG.eur_Chromo7
aOG.eur_Chromo5
aOG.eur_Chromo4
aOG.eur_Chromo3
aOG.eur_Chromo2
aOG.eur_Chromo1
aOG.eur_Chromo0
Chromo.HG5.6:CHD6/CHD7/CHD8/
Chromo.HG4.2:AC006064.6/CHD3/CH
Chromo.HG4.1:CHD1/CHD2
Chromo.HG3.5:NA
Chromo.HG3.3:NA
Chromo.HG2.1:NA
n genes = 71
n aOG = 8
ancestral_OG
OG

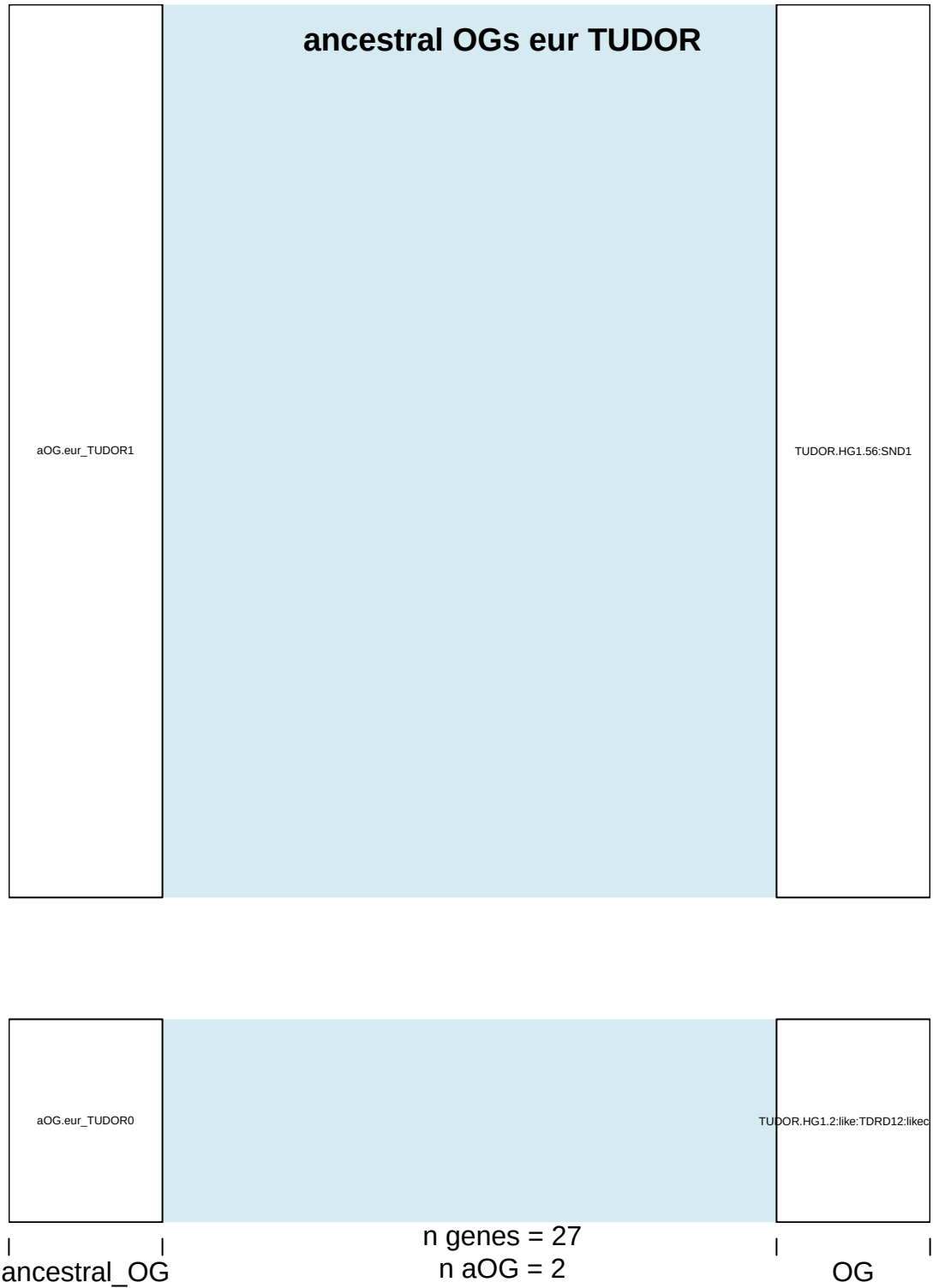
ancestral OGs eur ING

aOG.eur_ING0 = ING.HG1.2:ING1/ING2/ING4/ING5
n genes = 26

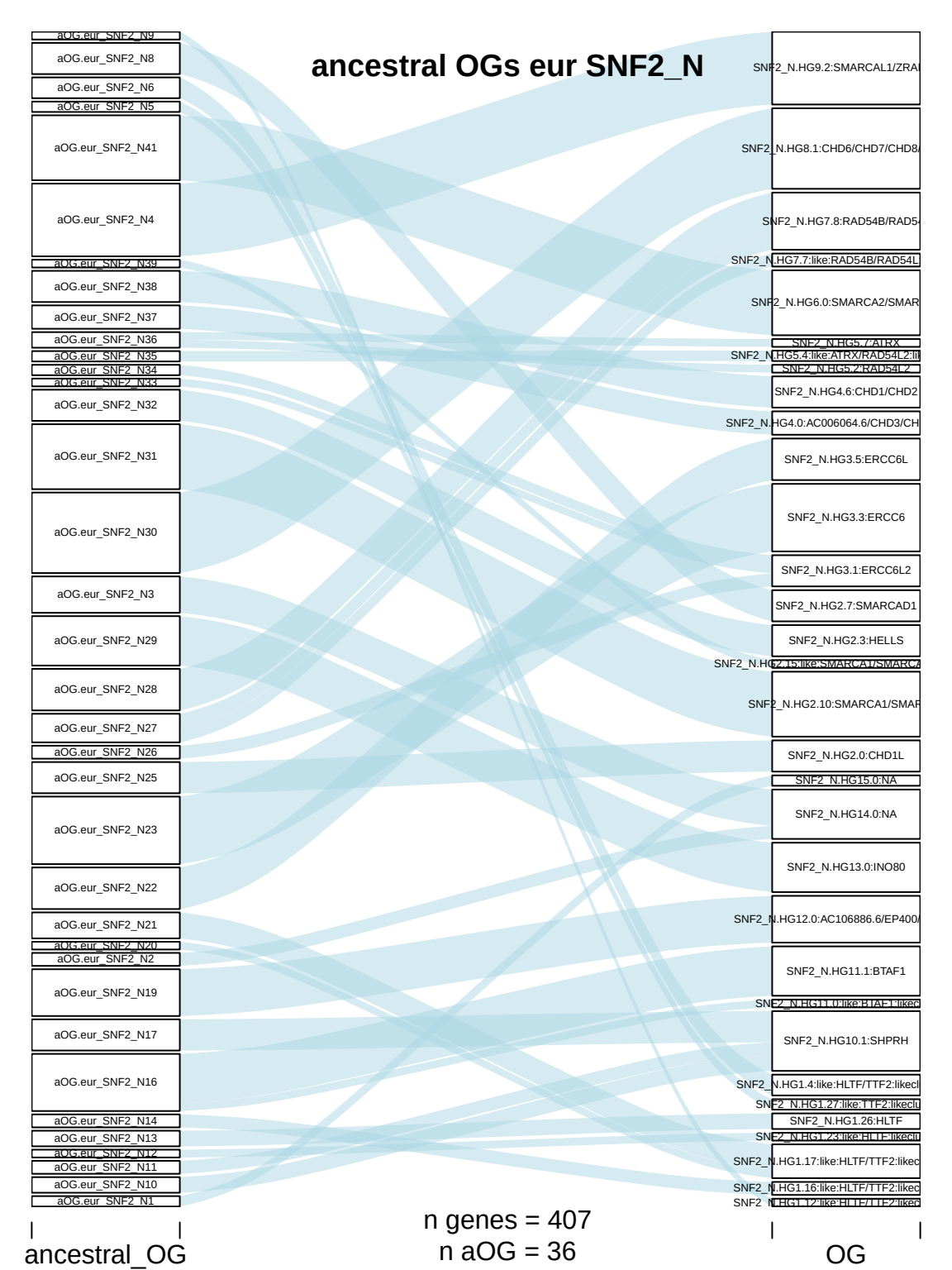

ancestral OGs eur MRG
aOG.eur_MRG3
aOG.eur_MRG2
aOG.eur_MRG1
aOG.eur_MRG0
MRG.HG1.1:MORF4L1/MORF4L2/
n genes = 29
n aOG = 4
ancestral_OG
OG

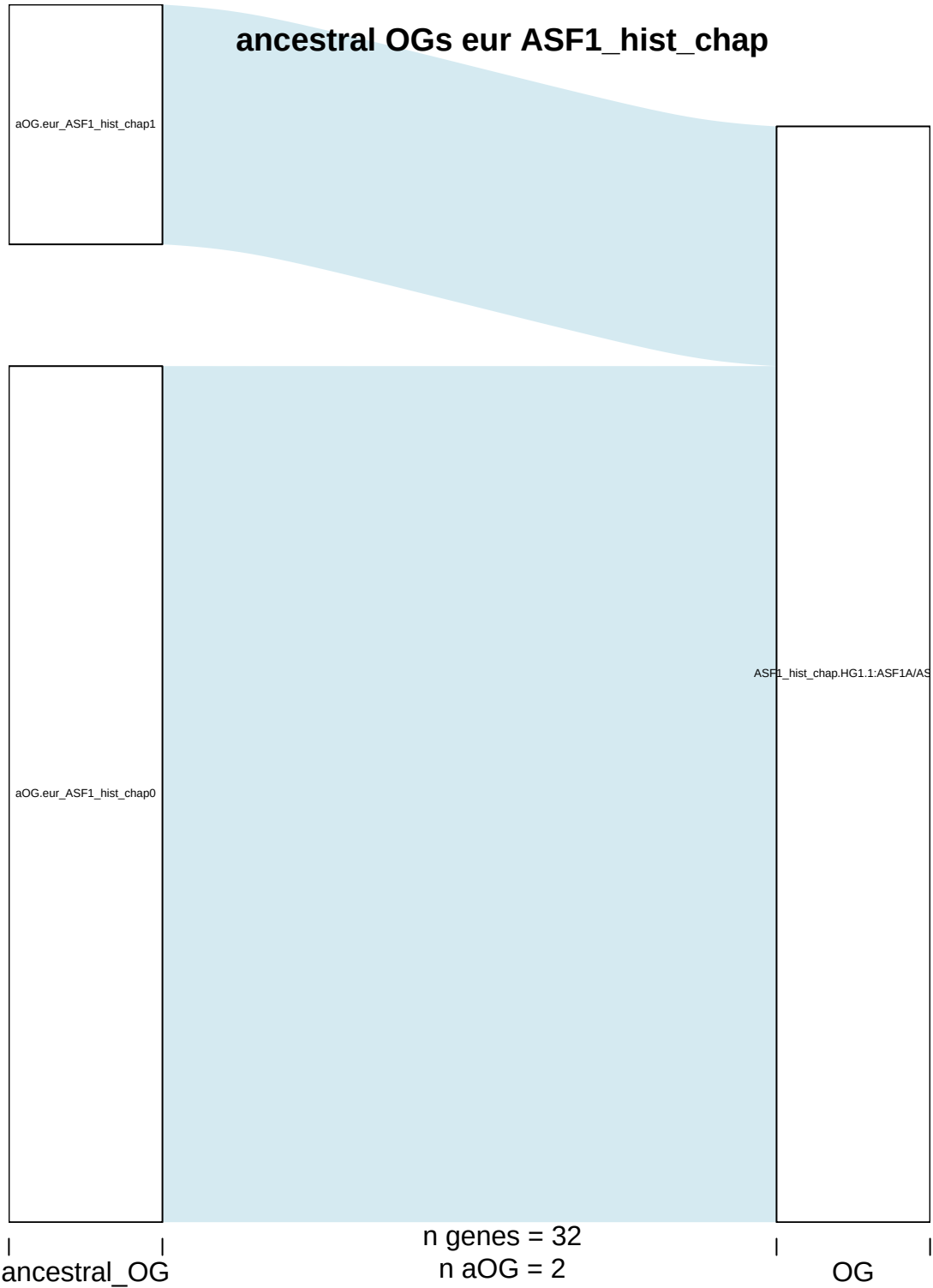

ancestral OGs eur PHD
aOG.eur_PHD9
aOG.eur_PHD8
aOG.eur_PHD6
aOG.eur_PHD4
aOG.eur_PHD3
aOG.eur_PHD25
aOG.eur_PHD23
aOG.eur_PHD22
aOG.eur_PHD19
aOG.eur_PHD16
aOG.eur_PHD14
aOG.eur_PHD13
aOG.eur_PHD12
aOG.eur_PHD10
aOG.eur_PHD1
PHD.HG8.1:like:KDM4A/KDM4B/KDM4C/KDM5A/KDM5
PHD.HG5.6:like:KMT2A/KMT2B/KMT2C/KM
PHD.HG5.4:KMT2A/KMT2B/KMT2C/
PHD.HG5.1:like:KMT2A/KMT2B/KMT2C/KM
PHD.HG4.2:like:BAZ1A/BAZ1B/BAZ2A/BAZ2B/SP140L/TRIM24/
PHD.HG3.4:AC006064.6/CHD3/CHD
PHD.HG3.2:like:AC006064.6/CHD3/CHD4/
PHD.HG3.1:like:AC006064.6/CHD3/CHD4/
PHD.HG2.8:like:BRD1/BRPF1/BRPF3/JADE1/JADE
PHD.HG2.19:BRD1/BRPF1/BRP
PHD.HG17.0:NA
PHD.HG10.3:like:TAF3:likeclu:
n genes = 75
n aOG = 15
ancestral_OG
OG


ancestral OGs eur PWWP
aOG.eur_PWWP1
aOG.eur_PWWP0
PWWP.HG1.8:AC098650.1/GLYR1/HDGFL1/HDGFL2/HDGFL3/MSH6/PSIP1/PW
PWWP.HG1.2:NSD1/NSD2/NSD
n genes = 7
n aOG = 2
ancestral_OG
OG


ancestral OGs eur TUDOR
aOG.eur_TUDOR1
TUDOR.HG1.56:SND1
aOG.eur_TUDOR0
TUDOR.HG1.2:like:TDRD12:likec
n genes = 27
n aOG = 2
ancestral_OG
OG

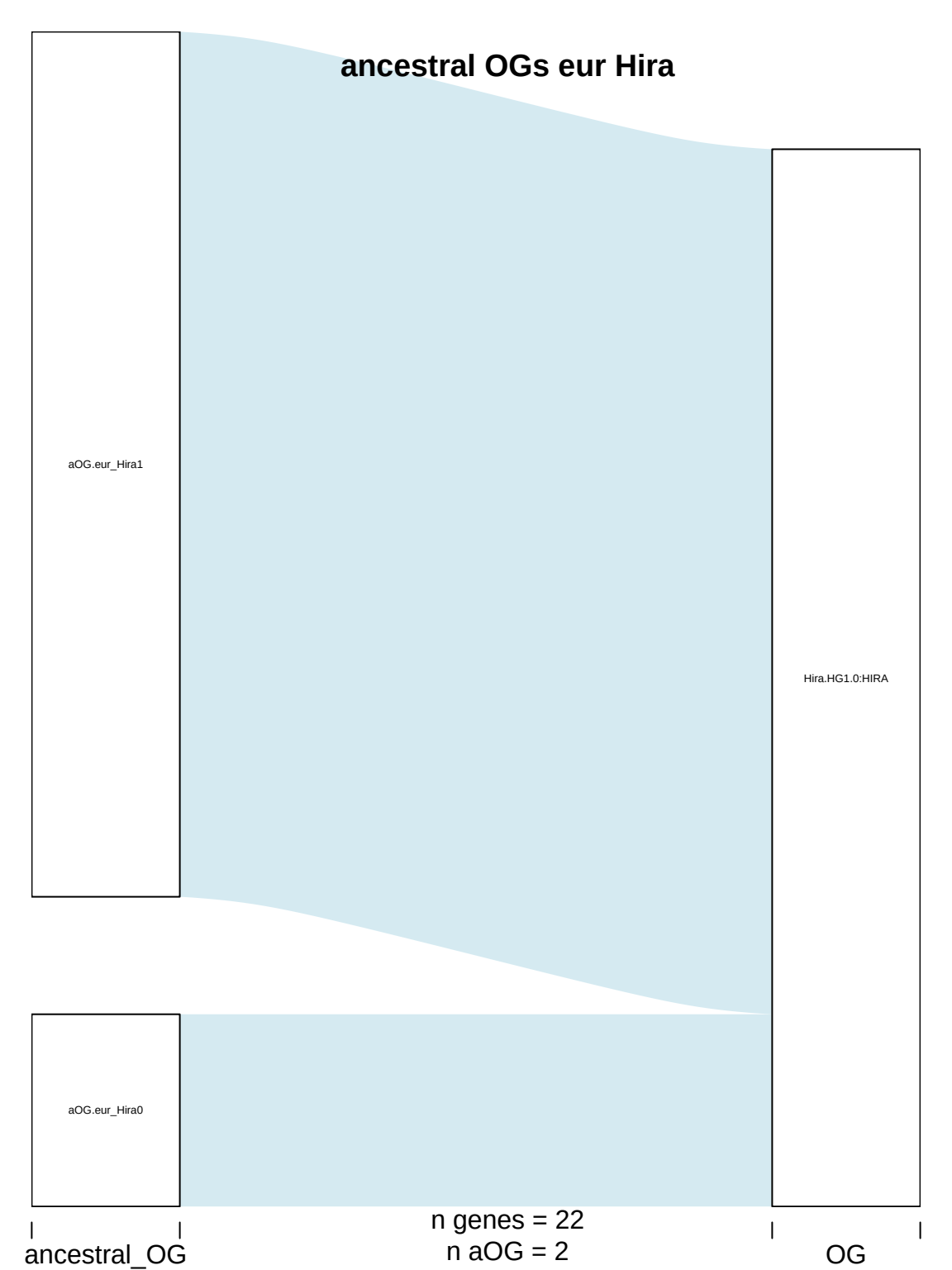

ancestral OGs eur zf−CW
=
n genes =

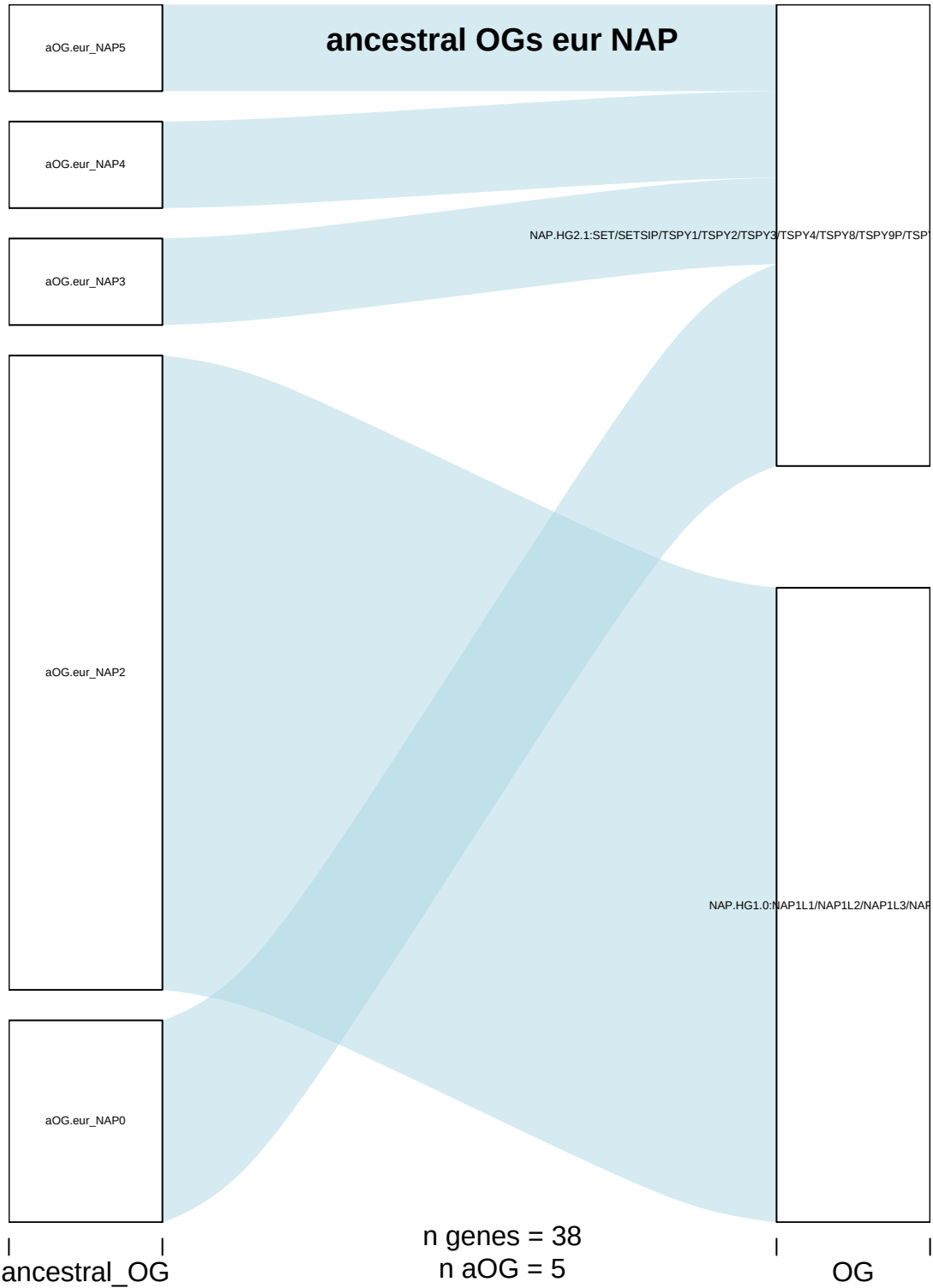

ancestral OGs eur SNF2_N
aOG.eur_SNF2_N9
aOG.eur_SNF2_N8
aOG.eur_SNF2_N6
aOG.eur_SNF2_N5
aOG.eur_SNF2_N41
aOG.eur_SNF2_N4
aOG.eur_SNF2_N39
aOG.eur_SNF2_N38
aOG.eur_SNF2_N37
aOG.eur_SNF2_N36
aOG.eur_SNF2_N35
aOG.eur_SNF2_N34
aOG.eur_SNF2_N33
aOG.eur_SNF2_N32
aOG.eur_SNF2_N31
aOG.eur_SNF2_N30
aOG.eur_SNF2_N3
aOG.eur_SNF2_N29
aOG.eur_SNF2_N28
aOG.eur_SNF2_N27
aOG.eur_SNF2_N26
aOG.eur_SNF2_N25
aOG.eur_SNF2_N23
aOG.eur_SNF2_N22
aOG.eur_SNF2_N21
aOG.eur_SNF2_N20
aOG.eur_SNF2_N2
aOG.eur_SNF2_N19
aOG.eur_SNF2_N17
aOG.eur_SNF2_N16
aOG.eur_SNF2_N14
aOG.eur_SNF2_N13
aOG.eur_SNF2_N12
aOG.eur_SNF2_N11
aOG.eur_SNF2_N10
aOG.eur_SNF2_N1
SNF2_N.HG9.2:SMARCAL1/ZRA
SNF2_N.HG8.1:CHD6/CHD7/CHD8
SNF2_N.HG7.8:RAD54B/RAD5
SNF2_N.HG7.7:like:RAD54B/RAD54L
SNF2_N.HG6.0:SMARCA2/SMAR
SNF2_N.HG5.7:ATRX
SNF2_N.HG5.4:like:ATRX/RAD54L2:li
SNF2_N.HG5.2:RAD54L2
SNF2_N.HG4.6:CHD1/CHD2
SNF2_N.HG4.0:AC006064.6/CHD3/CH
SNF2_N.HG3.5:ERCC6L
SNF2_N.HG3.3:ERCC6
SNF2_N.HG3.1:ERCC6L2
SNF2_N.HG2.7:SMARCAD1
SNF2_N.HG2.3:HELLS
SNF2_N.HG2.15:like:SMARCA1/SMARCA
SNF2_N.HG2.10:SMARCA1/SMAF
SNF2_N.HG2.0:CHD1L
SNF2_N.HG15.0:NA
SNF2_N.HG14.0:NA
SNF2_N.HG13.0:INO80
SNF2_N.HG12.0:AC106886.6/EP400/
SNF2_N.HG11.1:BTAF1
SNF2_N.HG11.0:like:BTAF1:likec
SNF2_N.HG10.1:SHPRH
SNF2_N.HG1.4:like:HLTF/TTF2:likecl
SNF2_N.HG1.27:like:TTF2:likecl
SNF2_N.HG1.26:HLTF
SNF2_N.HG1.23:like:HLTF:likecl
SNF2_N.HG1.17:like:HLTF/TTF2:likec
SNF2_N.HG1.16:like:HLTF/TTF2:likec
SNF2_N.HG1.12:like:HLTF/TTF2:likec
n genes = 407
n aOG = 36
ancestral_OG
OG

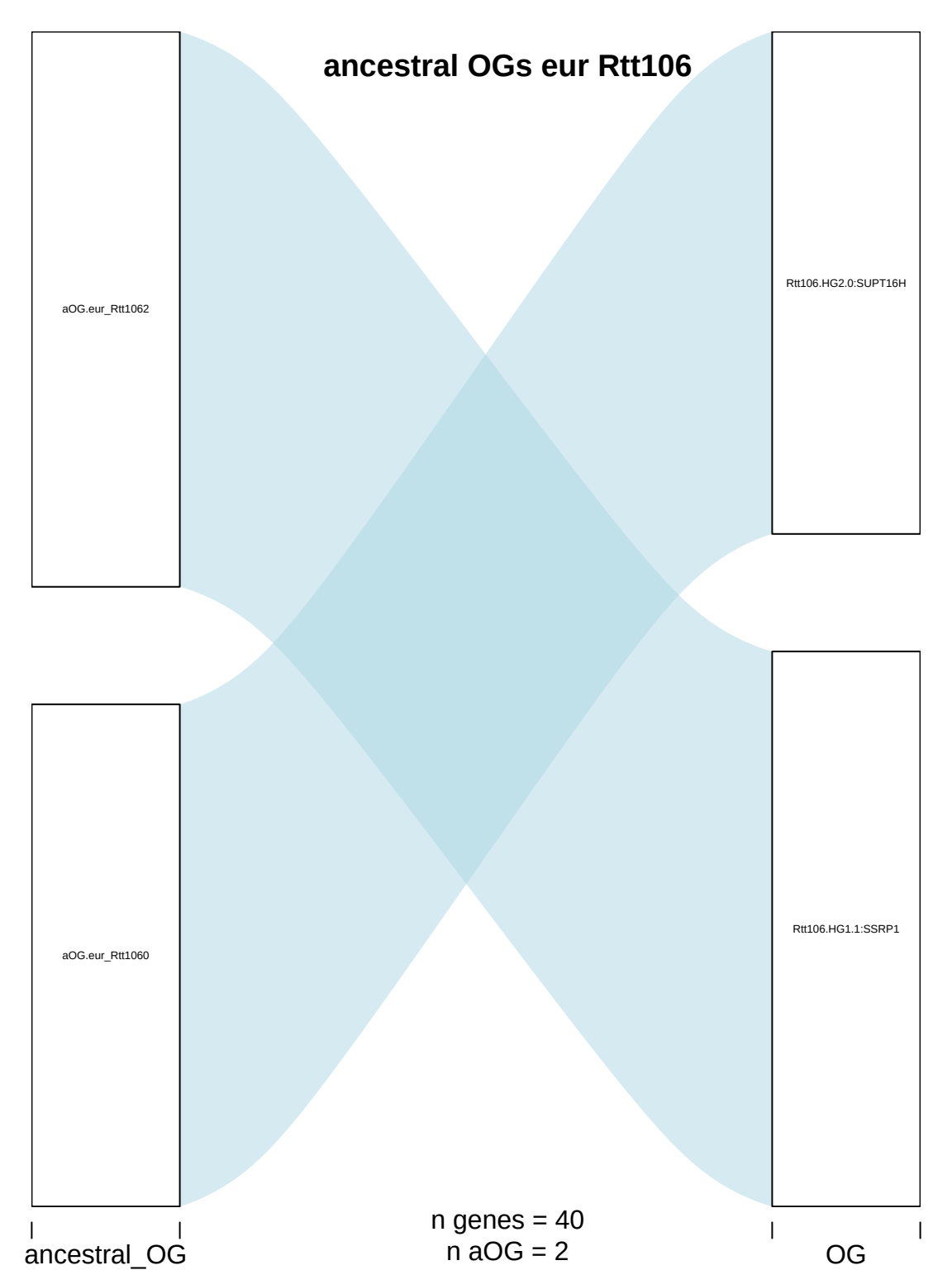

ancestral OGs eur ASF1_hist_chap
aOG.eur_ASF1_hist_chap1
aOG.eur_ASF1_hist_chap0
ASF1_hist_chap.HG1.1:ASF1A/AS
n genes = 32
n aOG = 2
ancestral_OG
OG

ancestral OGs eur CAF1A

aOG.eur_CAF1A0 = CAF1A.HG1.0:CHAF1A
n genes = 11

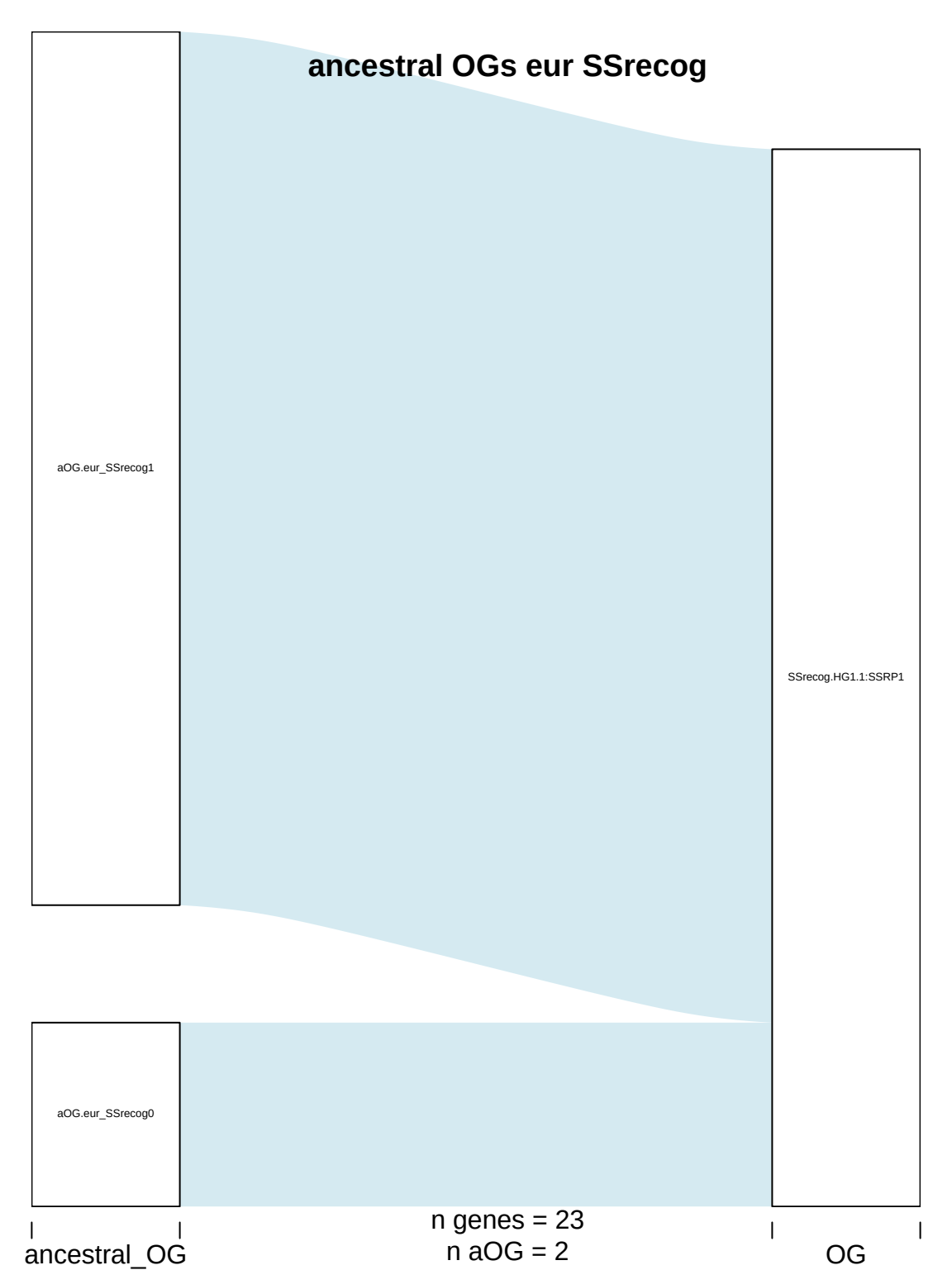

ancestral OGs eur Hira
aOG.eur_Hira1
aOG.eur_Hira0
Hira.HG1.0:HIRA
n genes = 22
n aOG = 2
ancestral_OG
OG

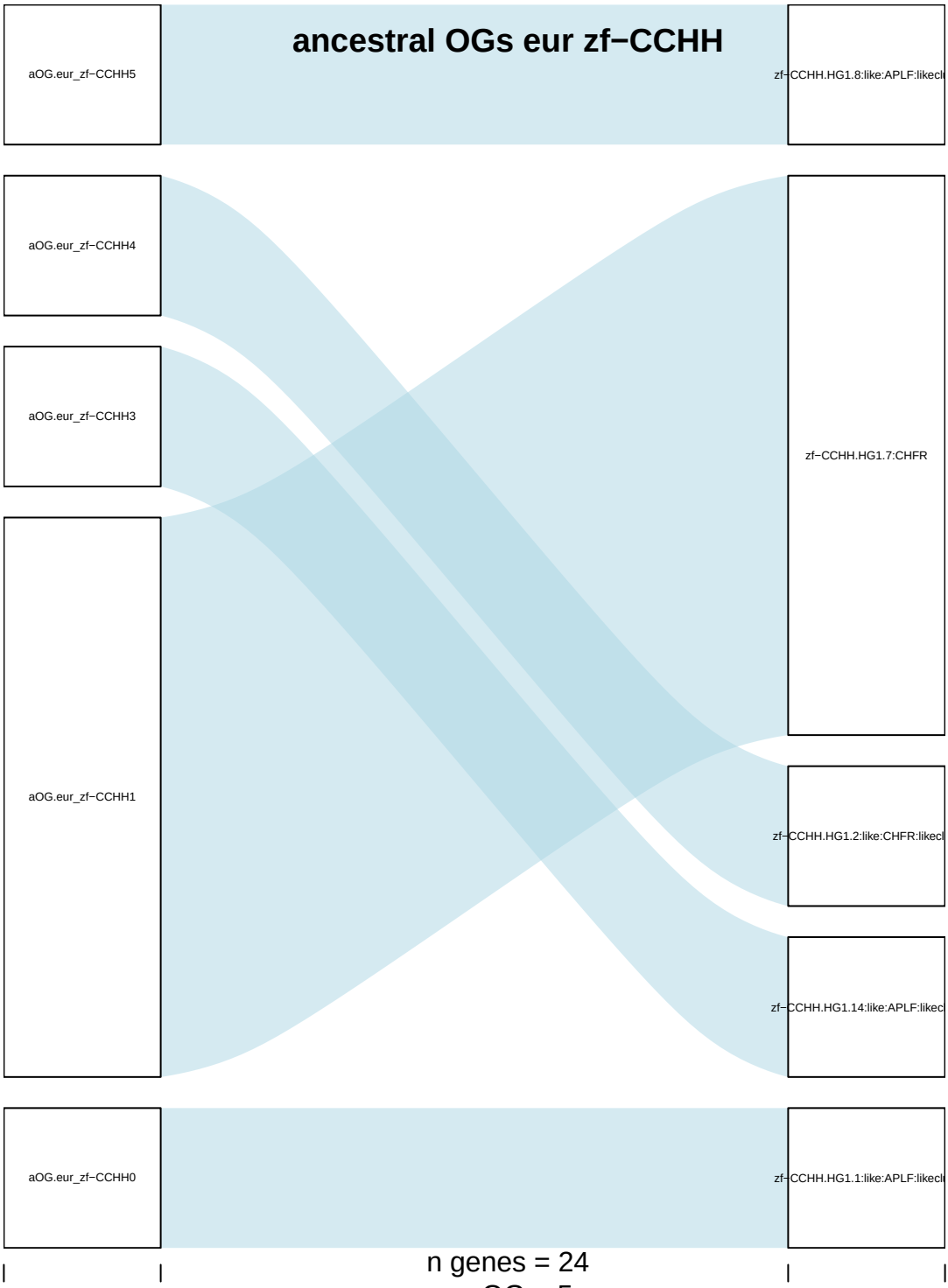

ancestral OGs eur NAP
aOG.eur_NAP5
aOG.eur_NAP4
aOG.eur_NAP3
aOG.eur_NAP2
aOG.eur_NAP0
NAP.HG2.1:SET/SETSIP/TSPY1/TSPY2/TSPY3/TSPY4/TSPY8/TSPY9P/TSP
NAP.HG1.0:NAP1L1/NAP1L2/NAP1L3/NAP
n genes = 38
n aOG = 5
ancestral_OG
OG

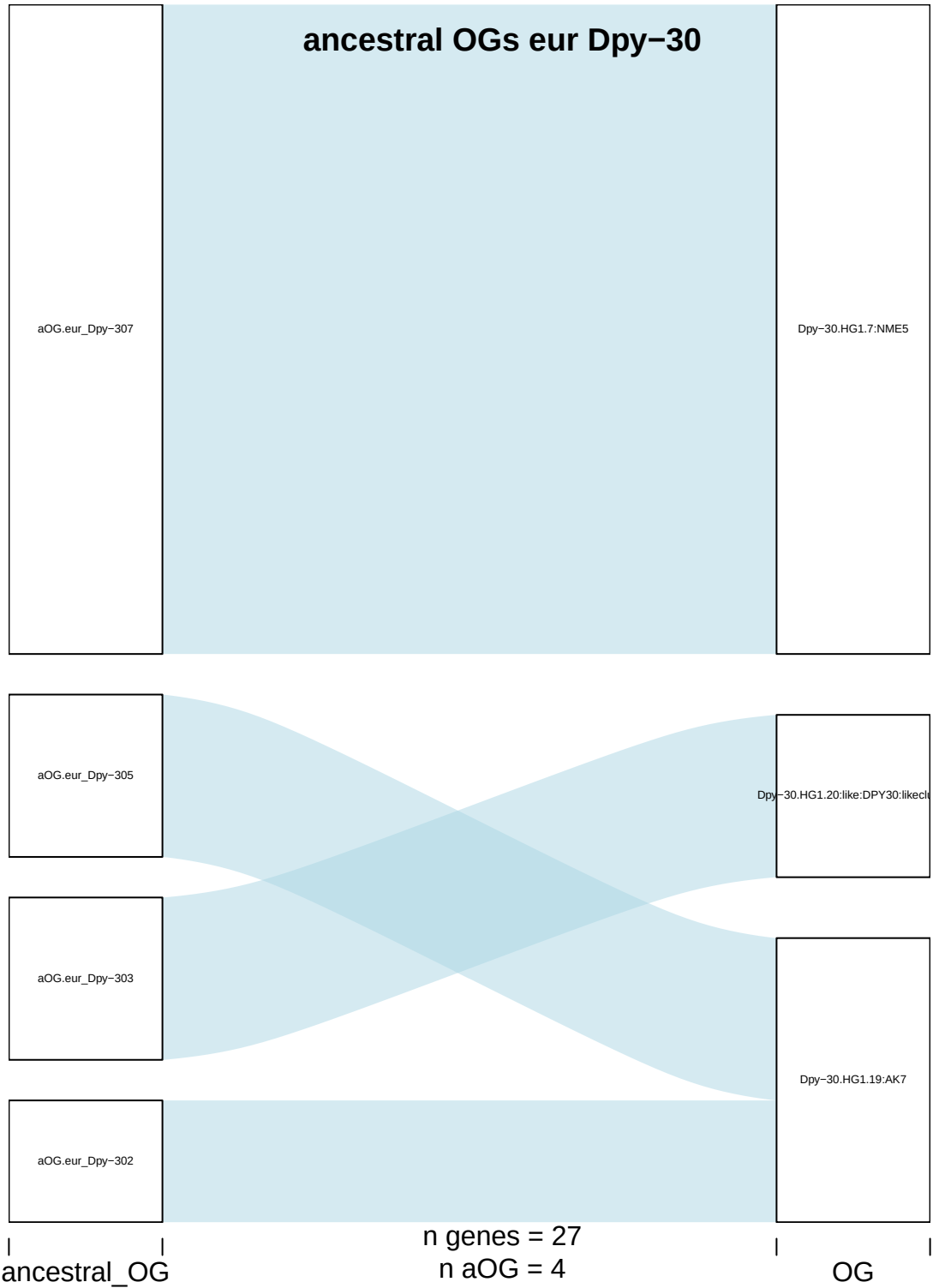

ancestral OGs eur Rtt106
aOG.eur_Rtt1062
aOG.eur_Rtt1060
Rtt106.HG2.0:SUPT16H
Rtt106.HG1.1:SSRP1
n genes = 40
n aOG = 2
ancestral_OG
OG

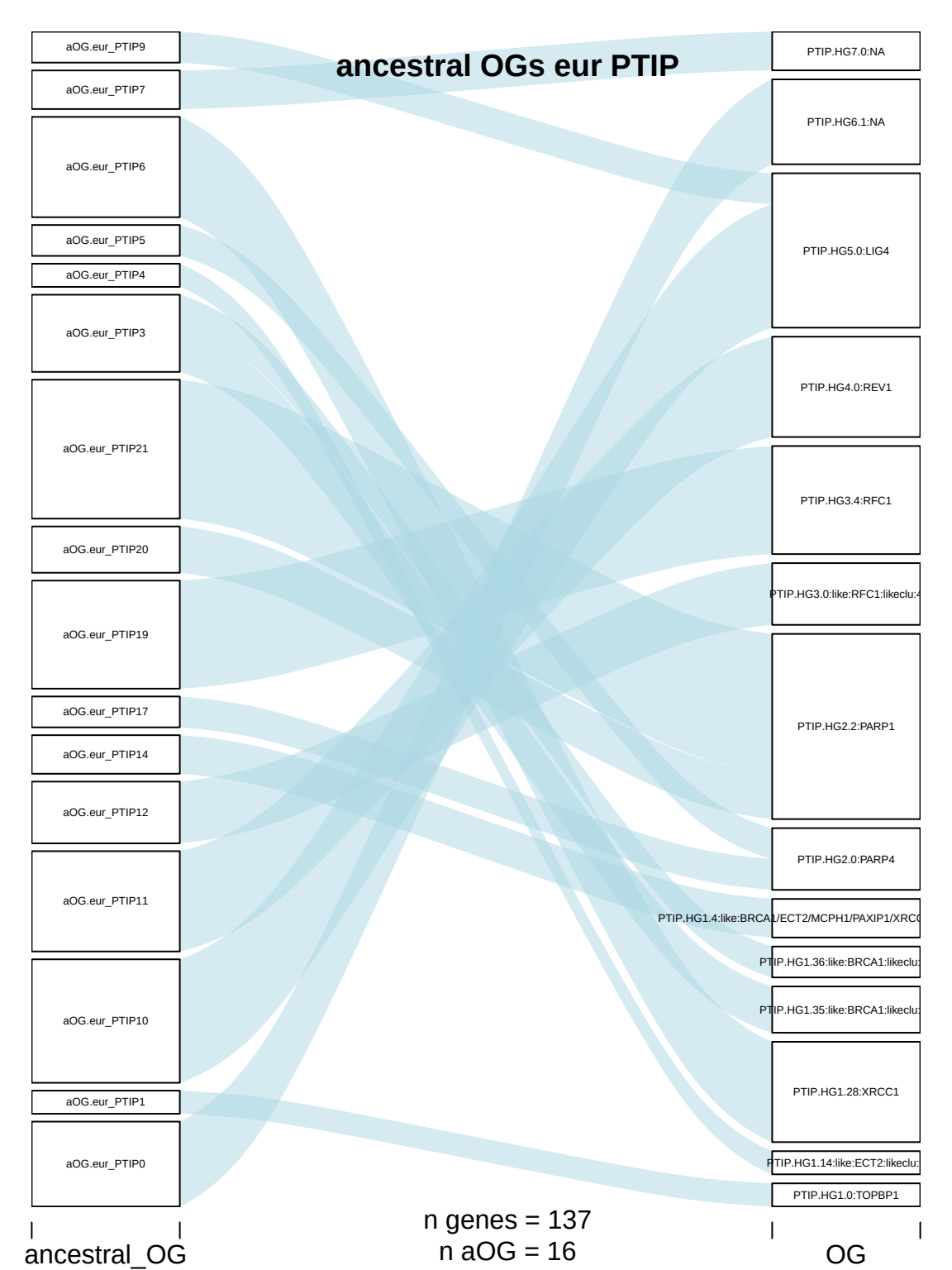
ancestral OGs eur SPT16

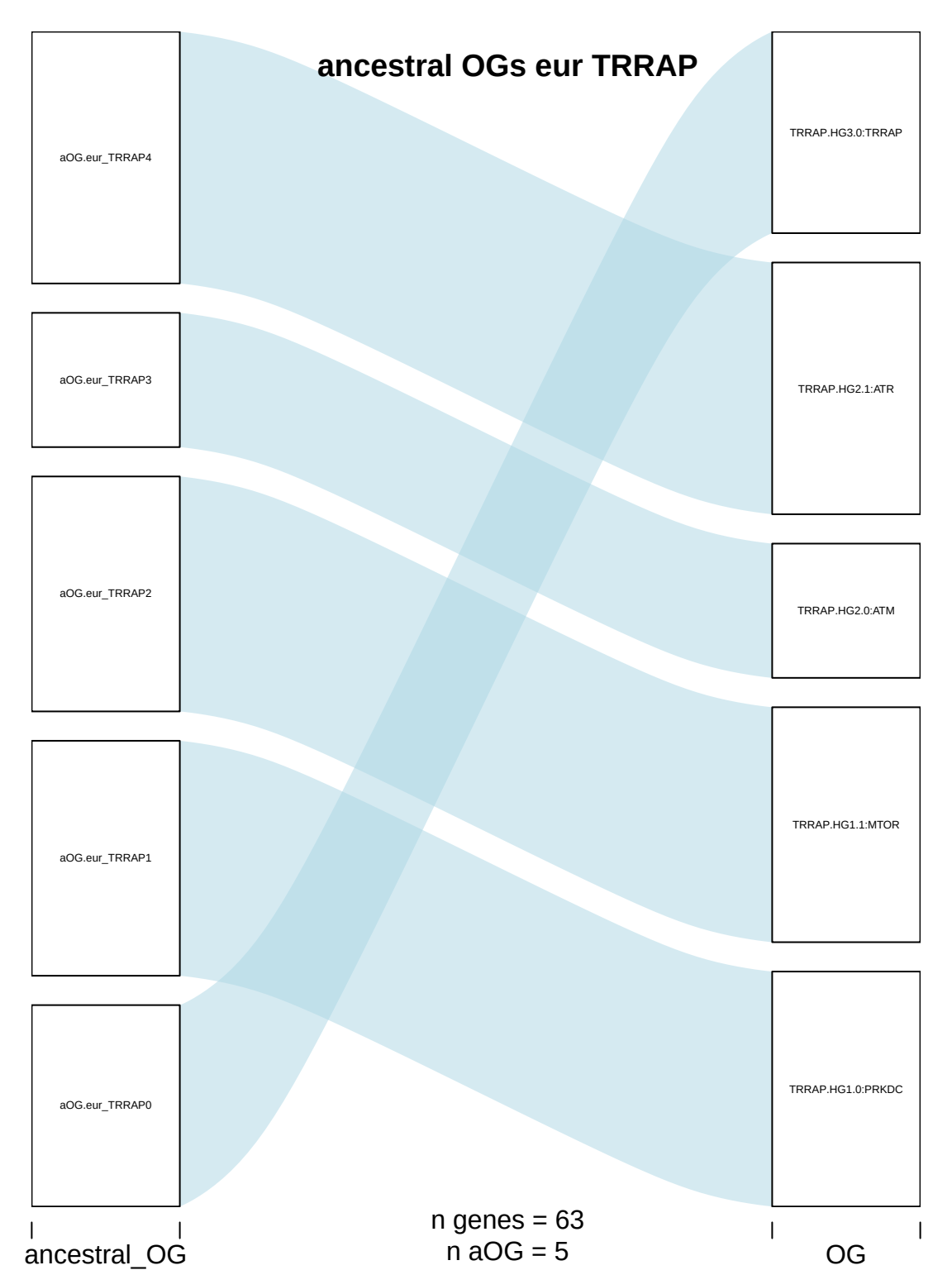
aOG.eur_SPT160 = SPT16.HG1.0:SUPT16H
n genes = 21

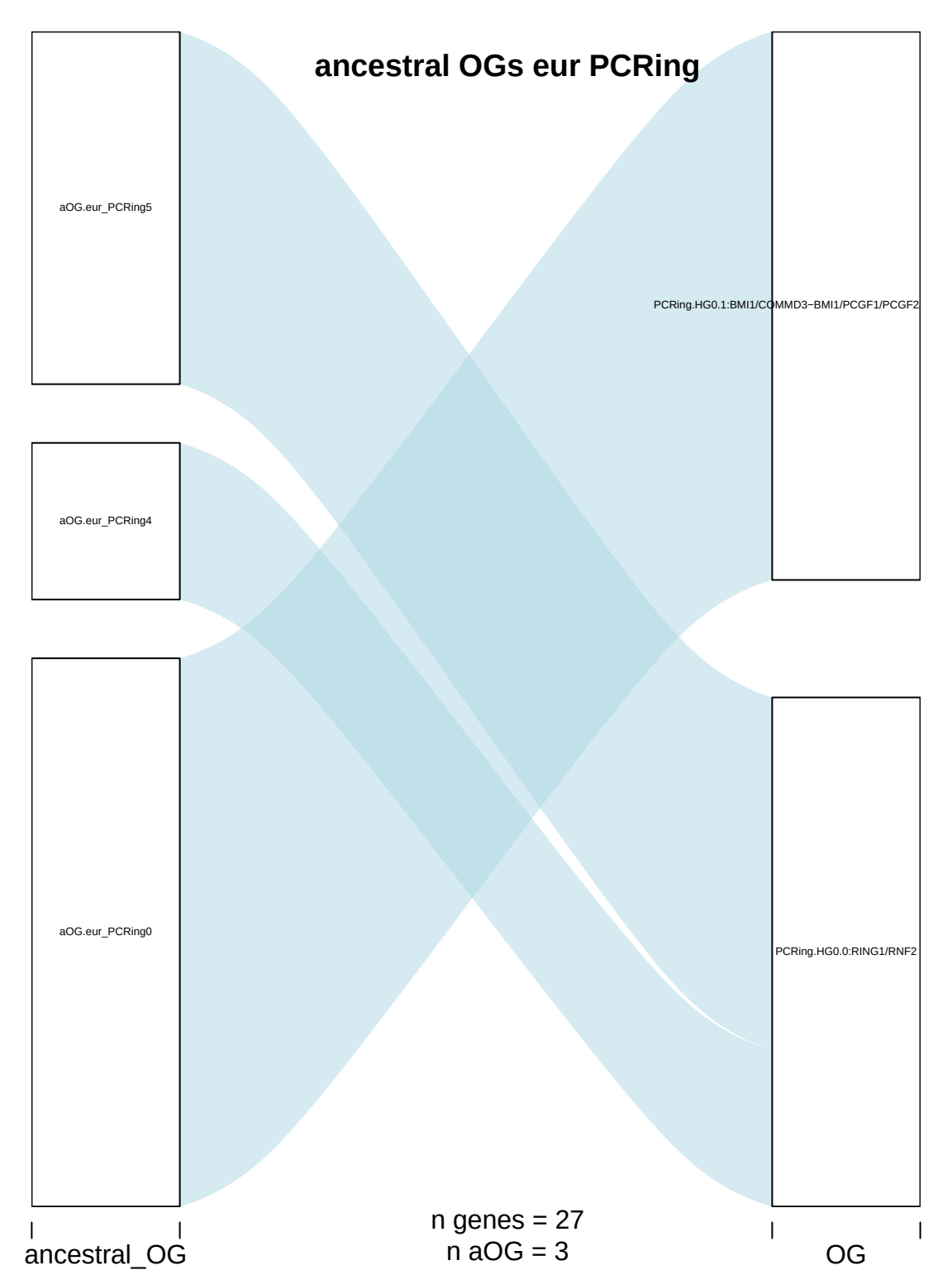

ancestral OGs eur SSrecog
aOG.eur_SSrecog1
aOG.eur_SSrecog0
SSrecog.HG1.1:SSRP1
n genes = 23
n aOG = 2
ancestral_OG
OG

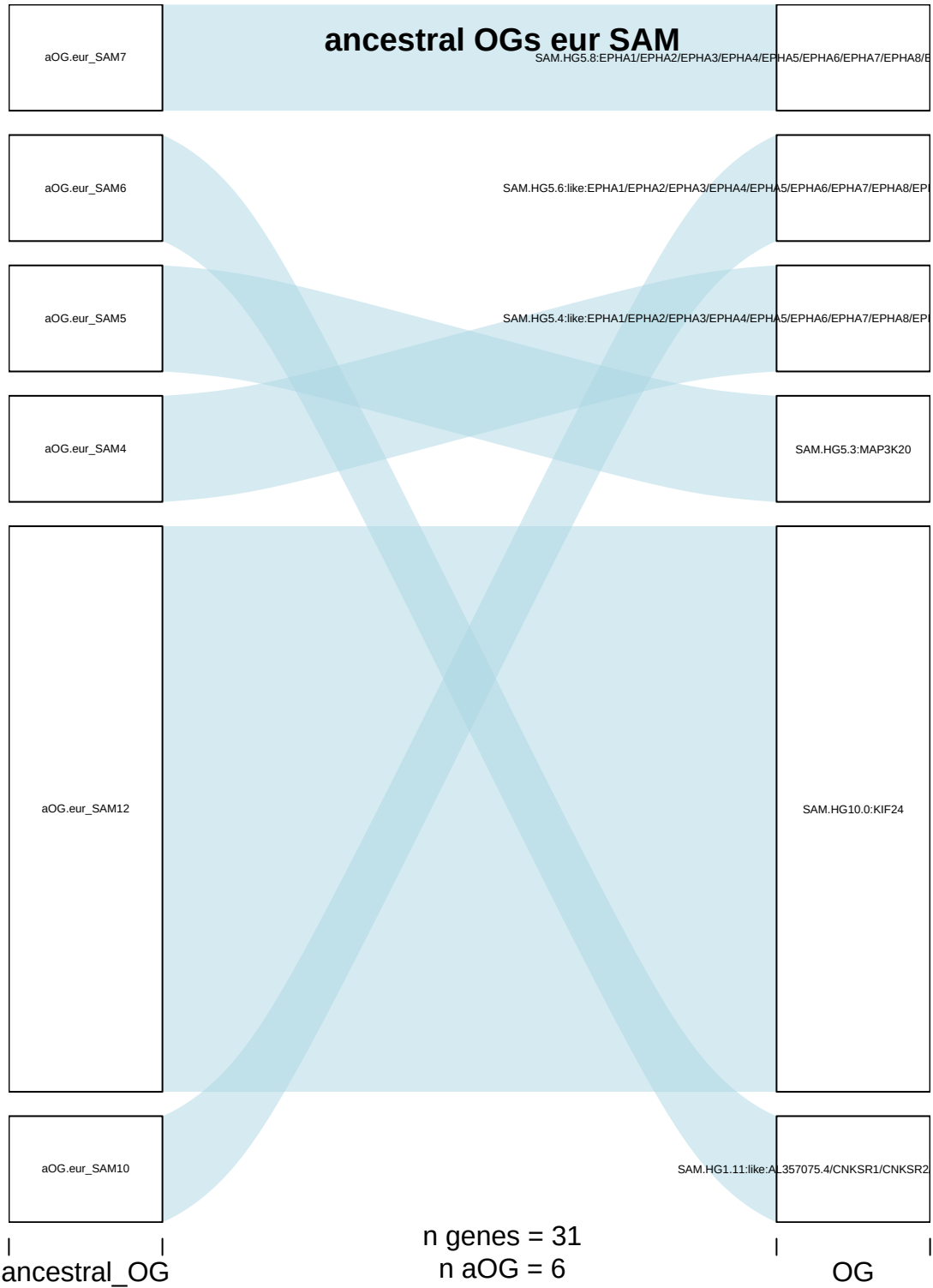

ancestral OGs eur zf−CCHH
aOG.eur_zf−CCHH5
aOG.eur_zf−CCHH4
aOG.eur_zf−CCHH3
aOG.eur_zf−CCHH1
aOG.eur_zf−CCHH0
zf−CCHH.HG1.8:like:APLF:likecl
zf−CCHH.HG1.7:CHFR
zf−CCHH.HG1.2:like:CHFR:likecl
zf−CCHH.HG1.14:like:APLF:likec
zf−CCHH.HG1.1:like:APLF:likecl
n genes = 24
n aOG = 5
ancestral_OG
OG


ancestral OGs eur Dpy−30
aOG.eur_Dpy−307
aOG.eur_Dpy−305
aOG.eur_Dpy−303
aOG.eur_Dpy−302
Dpy−30.HG1.7:NME5
Dpy−30.HG1.20:like:DPY30:likecl
Dpy−30.HG1.19:AK7
n genes = 27
n aOG = 4
ancestral_OG
OG


ancestral OGs eur PTIP
aOG.eur_PTIP9
aOG.eur_PTIP7
aOG.eur_PTIP6
aOG.eur_PTIP5
aOG.eur_PTIP4
aOG.eur_PTIP3
aOG.eur_PTIP21
aOG.eur_PTIP20
aOG.eur_PTIP19
aOG.eur_PTIP17
aOG.eur_PTIP14
aOG.eur_PTIP12
aOG.eur_PTIP11
aOG.eur_PTIP10
aOG.eur_PTIP1
aOG.eur_PTIP0
PTIP.HG7.0:NA
PTIP.HG6.1:NA
PTIP.HG5.0:LIG4
PTIP.HG4.0:REV1
PTIP.HG3.4:RFC1
PTIP.HG3.0:like:RFC1:likeclu:4
PTIP.HG2.2:PARP1
PTIP.HG2.0:PARP4
PTIP.HG1.4:like:BRCA1/ECT2/MCPH1/PAXIP1/XRC
PTIP.HG1.36:like:BRCA1:likeclu:
PTIP.HG1.35:like:BRCA1:likeclu:
PTIP.HG1.28:XRCC1
PTIP.HG1.14:like:ECT2:likeclu:
PTIP.HG1.0:TOPBP1
n genes = 137
n aOG = 16
ancestral_OG
OG

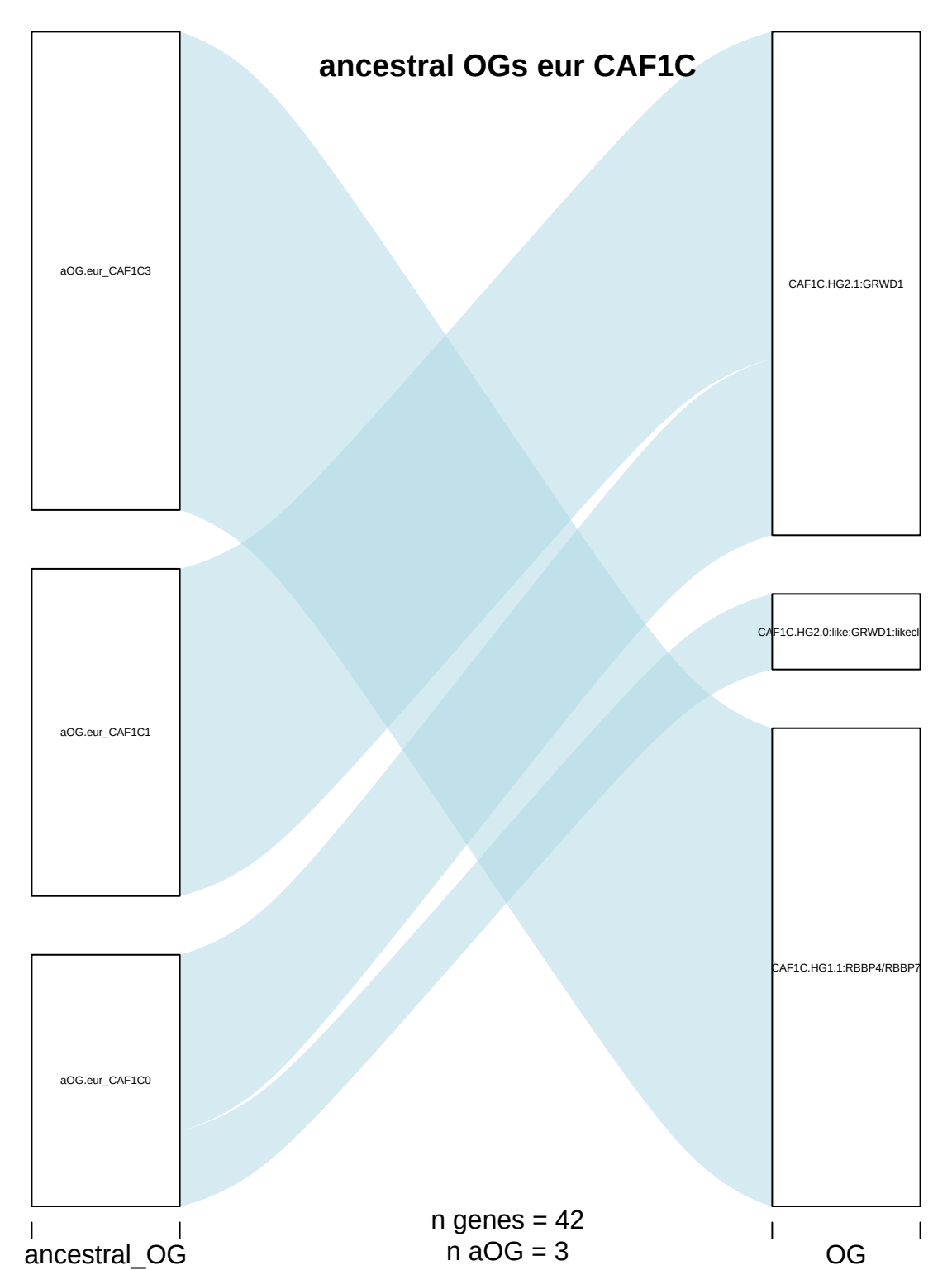

ancestral OGs eur TRRAP
aOG.eur_TRRAP4
aOG.eur_TRRAP3
aOG.eur_TRRAP2
aOG.eur_TRRAP1
aOG.eur_TRRAP0
TRRAP.HG3.0:TRRAP
TRRAP.HG2.1:ATR
TRRAP.HG2.0:ATM
TRRAP.HG1.1:MTOR
TRRAP.HG1.0:PRKDC
n genes = 63
n aOG = 5
ancestral_OG
OG

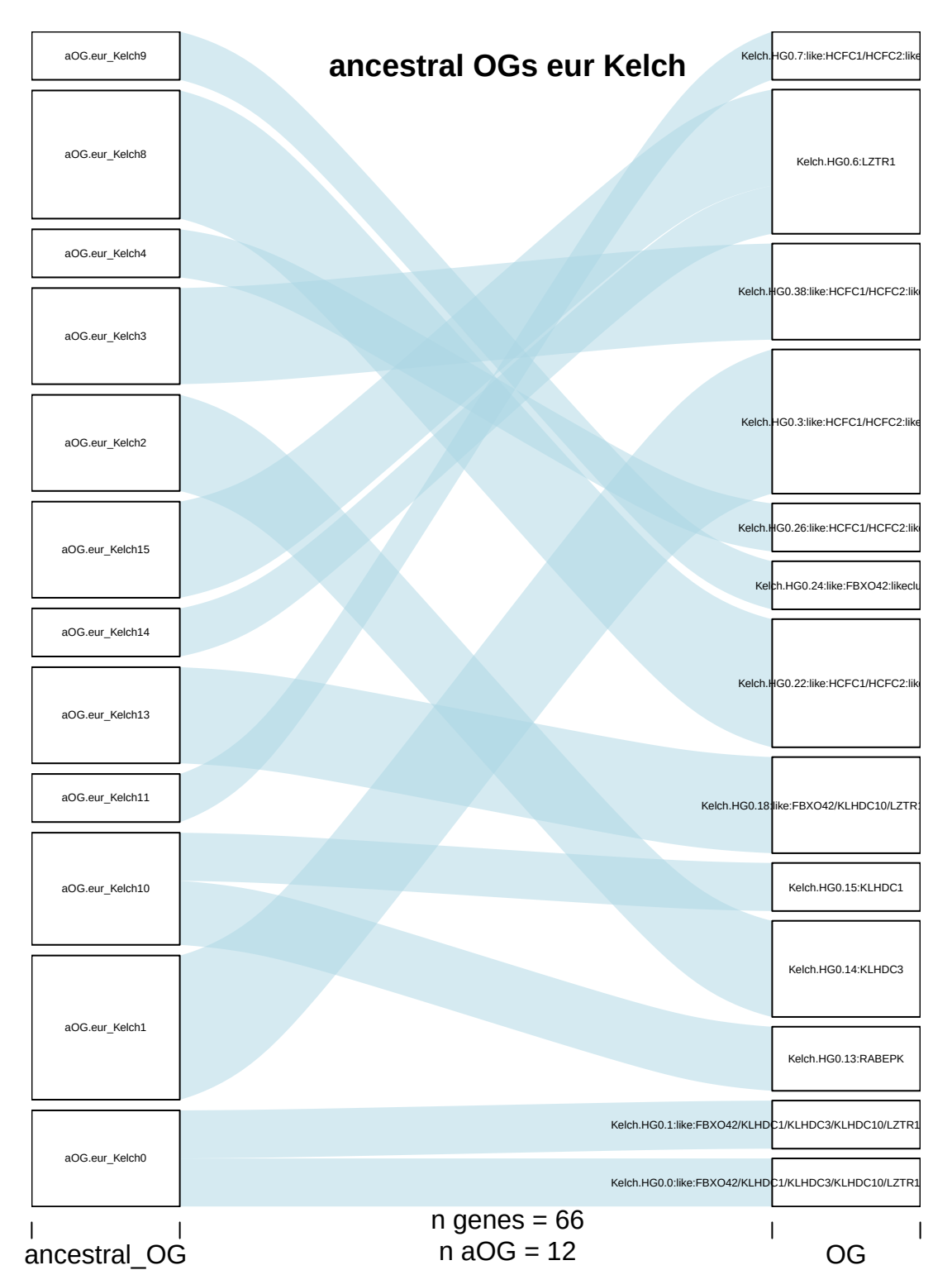

ancestral OGs eur PCRing
aOG.eur_PCRing5
aOG.eur_PCRing4
aOG.eur_PCRing0
PCRing.HG0.1:BMI1/COMMD3−BMI1/PCGF1/PCGF2
PCRing.HG0.0:RING1/RNF2
n genes = 27
n aOG = 3
ancestral_OG
OG

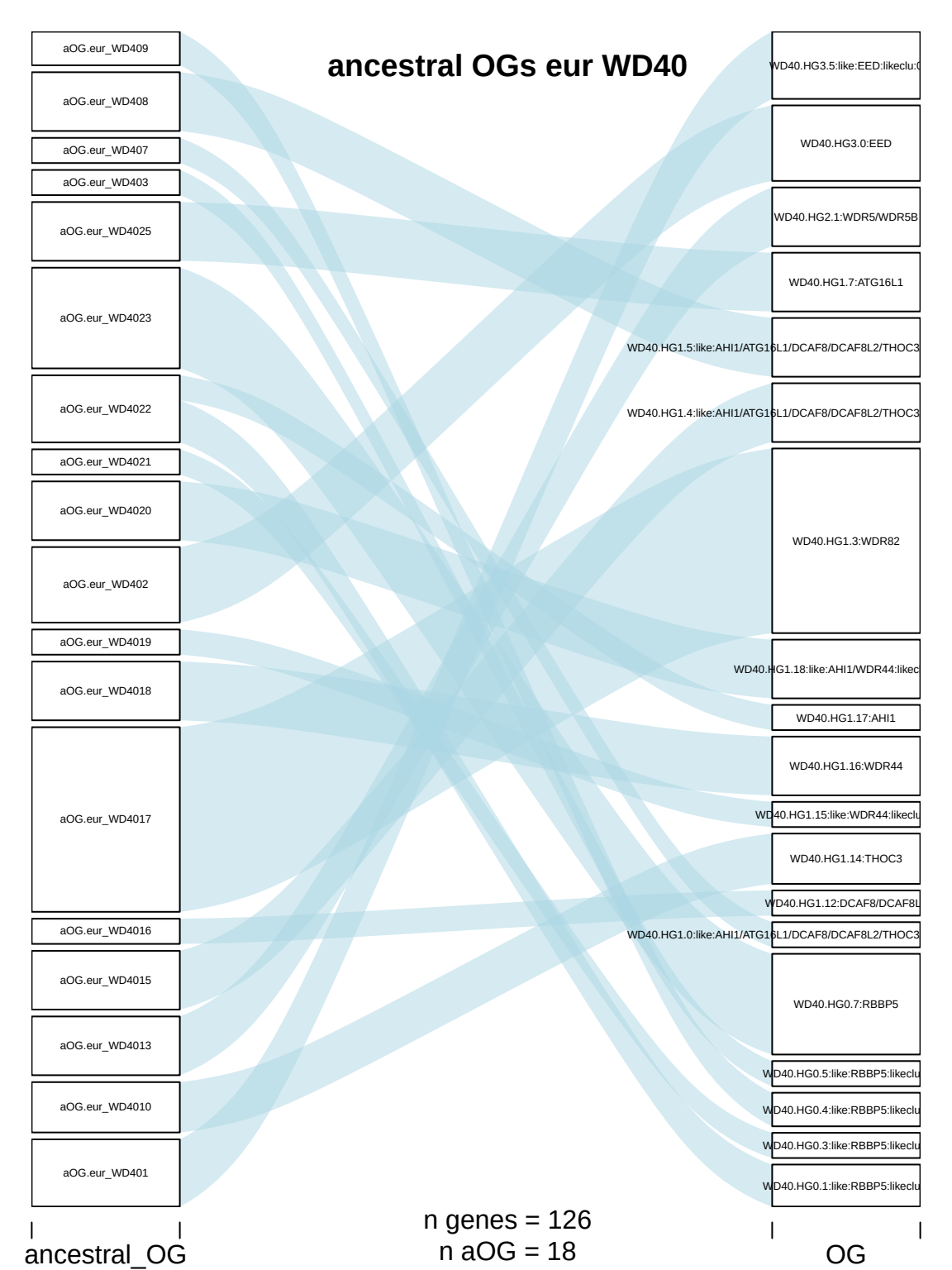

ancestral OGs eur SAM
aOG.eur_SAM7
aOG.eur_SAM6
aOG.eur_SAM5
aOG.eur_SAM4
aOG.eur_SAM12
aOG.eur_SAM10
SAM.HG5.8:EPHA1/EPHA2/EPHA3/EPHA4/EPHA5/EPHA6/EPHA7/EPHA8/E
SAM.HG5.6:like:EPHA1/EPHA2/EPHA3/EPHA4/EPHA5/EPHA6/EPHA7/EPHA8/EP
SAM.HG5.4:like:EPHA1/EPHA2/EPHA3/EPHA4/EPHA5/EPHA6/EPHA7/EPHA8/EP
SAM.HG5.3:MAP3K20
SAM.HG10.0:KIF24
SAM.HG1.11:like:AL357075.4/CNKSR1/CNKSR2
n genes = 31
n aOG = 6
ancestral_OG
OG

ancestral OGs eur Suz12

aOG.eur_Suz121 = Suz12.HG1.0:SUZ12
n genes = 4


ancestral OGs eur CAF1C
aOG.eur_CAF1C3
aOG.eur_CAF1C1
aOG.eur_CAF1C0
CAF1C.HG2.1:GRWD1
CAF1C.HG2.0:like:GRWD1:likecl
CAF1C.HG1.1:RBBP4/RBBP7
n genes = 42
n aOG = 3
ancestral_OG
OG


ancestral OGs eur Kelch
aOG.eur_Kelch9
aOG.eur_Kelch8
aOG.eur_Kelch4
aOG.eur_Kelch3
aOG.eur_Kelch2
aOG.eur_Kelch15
aOG.eur_Kelch14
aOG.eur_Kelch13
aOG.eur_Kelch11
aOG.eur_Kelch10
aOG.eur_Kelch1
aOG.eur_Kelch0
Kelch.HG0.7:like:HCFC1/HCFC2:like
Kelch.HG0.6:LZTR1
Kelch.HG0.38:like:HCFC1/HCFC2:lik
Kelch.HG0.3:like:HCFC1/HCFC2:like
Kelch.HG0.26:like:HCFC1/HCFC2:lik
Kelch.HG0.24:like:FBXO42:likeclu
Kelch.HG0.22:like:HCFC1/HCFC2:lik
Kelch.HG0.18:like:FBXO42/KLHDC10/LZTR
Kelch.HG0.15:KLHDC1
Kelch.HG0.14:KLHDC3
Kelch.HG0.13:RABEPK
Kelch.HG0.1:like:FBXO42/KLHDC1/KLHDC3/KLHDC10/LZTR1
Kelch.HG0.0:like:FBXO42/KLHDC1/KLHDC3/KLHDC10/LZTR1
n genes = 66
n aOG = 12
ancestral_OG
OG


ancestral OGs eur WD40
aOG.eur_WD409
aOG.eur_WD408
aOG.eur_WD407
aOG.eur_WD403
aOG.eur_WD4025
aOG.eur_WD4023
aOG.eur_WD4022
aOG.eur_WD4021
aOG.eur_WD4020
aOG.eur_WD402
aOG.eur_WD4019
aOG.eur_WD4018
aOG.eur_WD4017
aOG.eur_WD4016
aOG.eur_WD4015
aOG.eur_WD4013
aOG.eur_WD4010
aOG.eur_WD401
WD40.HG3.5:like:EED:likeclu:0
WD40.HG3.0:EED
WD40.HG2.1:WDR5/WDR5B
WD40.HG1.7:ATG16L1
WD40.HG1.5:like:AHI1/ATG16L1/DCAF8/DCAF8L2/THOC3
WD40.HG1.4:like:AHI1/ATG16L1/DCAF8/DCAF8L2/THOC3
WD40.HG1.3:WDR82
WD40.HG1.18:like:AHI1/WDR44:likec
WD40.HG1.17:AHI1
WD40.HG1.16:WDR44
WD40.HG1.15:like:WDR44:likeclu
WD40.HG1.14:THOC3
WD40.HG1.12:DCAF8/DCAF8L
WD40.HG1.0:like:AHI1/ATG16L1/DCAF8/DCAF8L2/THOC3
WD40.HG0.7:RBBP5
WD40.HG0.5:like:RBBP5:likeclu
WD40.HG0.4:like:RBBP5:likeclu
WD40.HG0.3:like:RBBP5:likeclu
WD40.HG0.1:like:RBBP5:likeclu
n genes = 126
n aOG = 18
ancestral_OG
OG