

Figure S1: Avian ancestor chromosome visualizations on the Evolution Highway comparative chromosome browser. Blue and pink blocks define syntenic fragments, in “+” and “-” orientation against the Avian ancestor chromosomes, respectively. Number within blocks depict chromosome numbers in each of the reconstructed ancestors, and chromosome or scaffold number in each extant descendant and outgroup species.

AVI1

Avian:Ancestor:CHRS

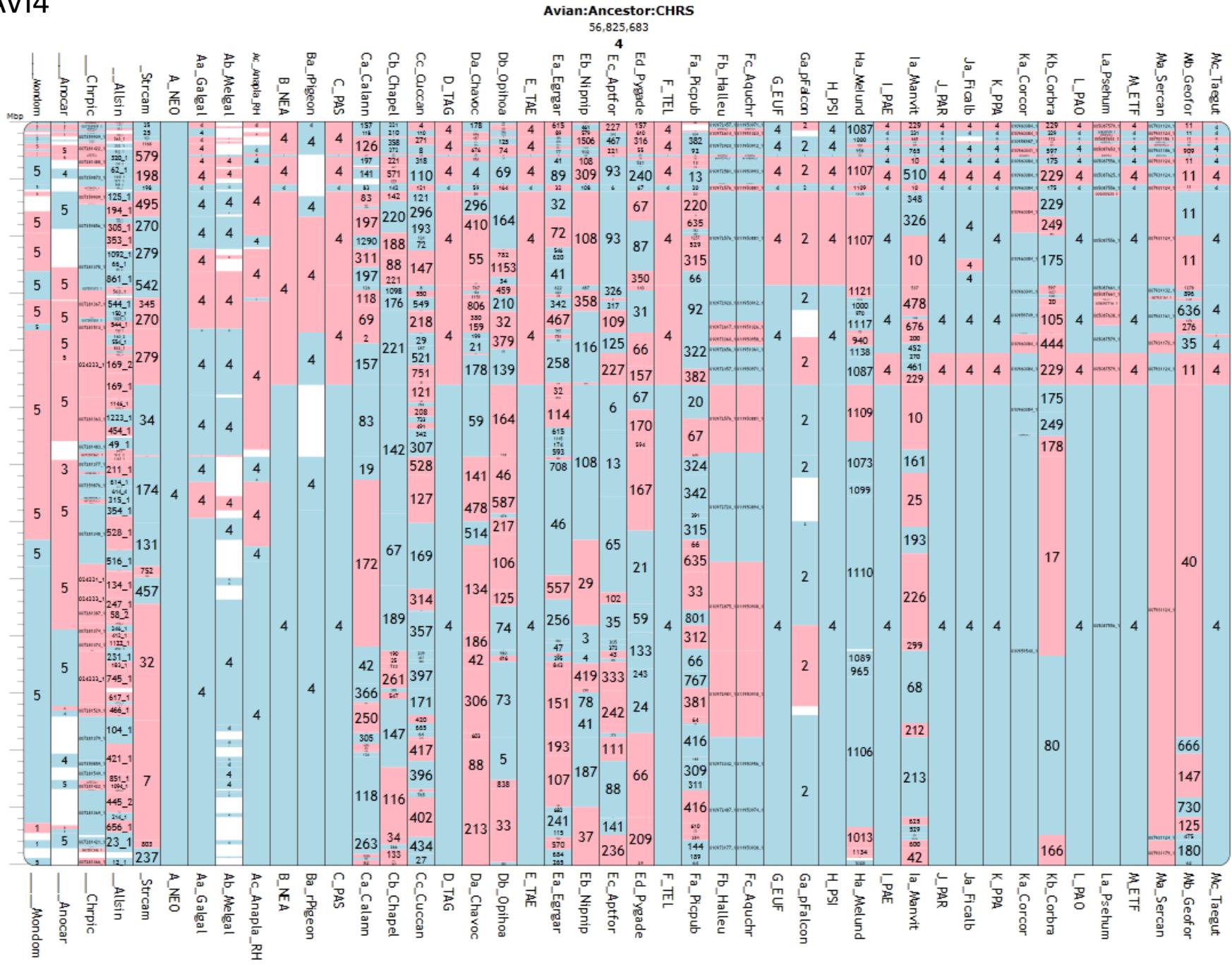
151,054,039

AVI2

Map	Species	M. Tagout		M. Geofor	
		Abundance	Relative Abundance	Abundance	Relative Abundance
Ma_Sercan	La_Psehum	182	24	282	24
M_ETF	L_PAQ	270	24	75	138
La_Psehum	K_PPQ	95	2	231	2
Ma_Sercan	K_Corcor	18	2	142	2
M_ETF	Ja_Ficalb	52	2	167	2
La_Psehum	I_PAR	167	2	84	2
Ma_Sercan	Ha_Melund	142	2	53	2
M_ETF	I_PAE	220	2	94	2
La_Psehum	H_PSI	1006	2	220	2
Ma_Sercan	G_EUF	1126	2	1126	2
M_ETF	Fa_Pfalcon	94	2	1006	2
La_Psehum	Fb_Halleu	89	2	1126	2
Ma_Sercan	Fa_Prepub	233	2	1006	2
M_ETF	F_E_TEL	266	2	1126	2
La_Psehum	Ed_Pygaede	78	2	220	2
Ma_Sercan	E_C_Aptfor	112	2	94	2
M_ETF	E_B_Nipnip	117	2	142	2
La_Psehum	Ea_Eggar	553	2	84	2
Ma_Sercan	Ea_TAE	665	2	53	2
M_ETF	Db_Ophioha	117	2	94	2
La_Psehum	Da_Chavoc	159	2	142	2
Ma_Sercan	D_TAG	80	2	84	2
M_ETF	Cc_Guccan	332	2	282	2
La_Psehum	Cb_Chapel	202	2	281	2
Ma_Sercan	Ca_Calann	174	2	281	2
M_ETF	C_PAS	103	2	281	2
La_Psehum	B_NEA	135	2	281	2
Ma_Sercan	Aa_Gagal	60	2	281	2
M_ETF	Ab_Megal	135	2	281	2
La_Psehum	Ac_Anapla_RH	135	2	281	2
Ma_Sercan	Alisn	135	2	281	2
M_ETF	Chptic	135	2	281	2
La_Psehum	Nondom	135	2	281	2
Ma_Sercan	Anocar	135	2	281	2
M_ETF	Amocar	135	2	281	2
La_Psehum	Map	135	2	281	2

AVI3

AVI4



AVI4A

Avian:Ancestor:CHRS

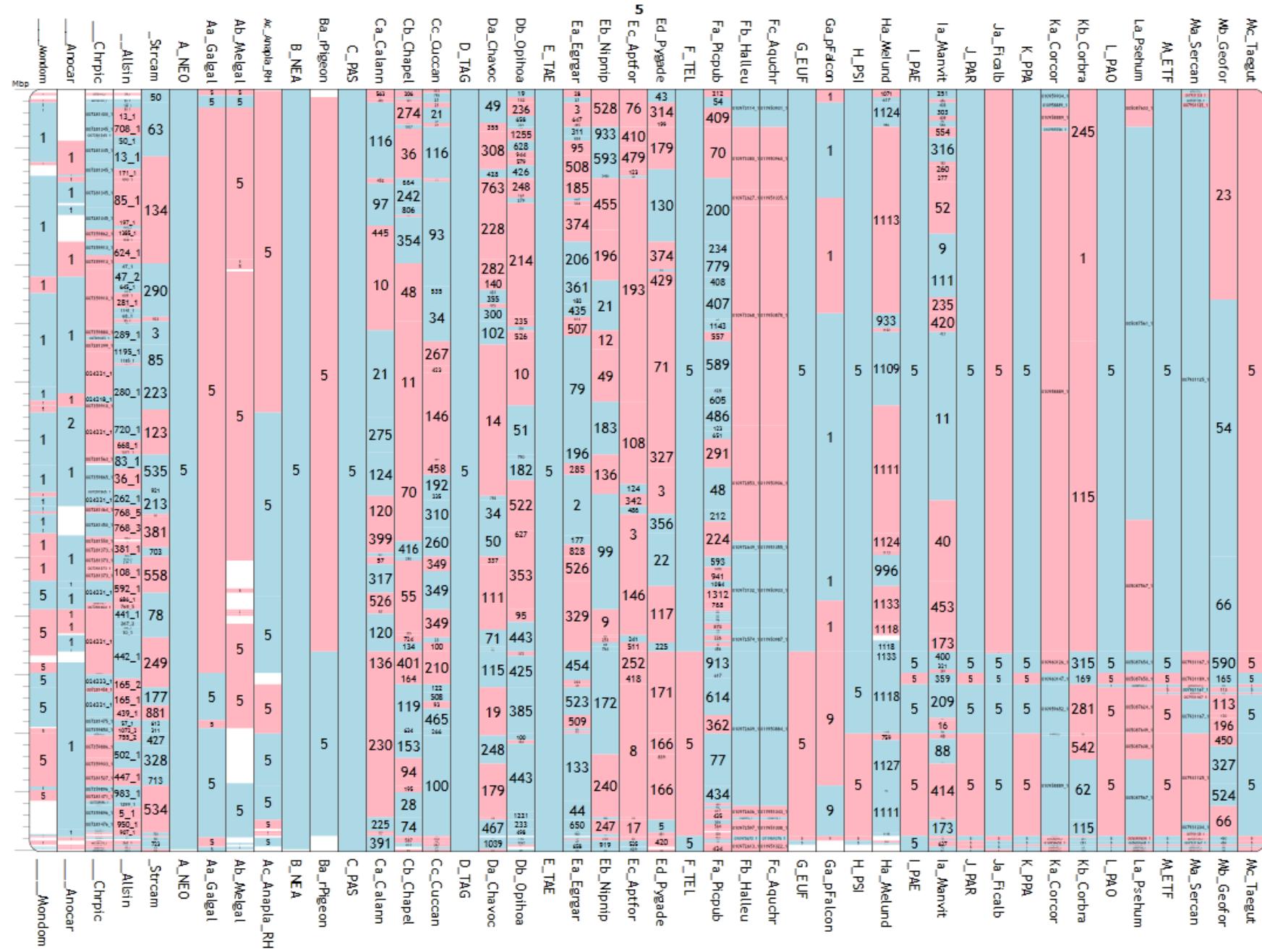
16,170,713

4A

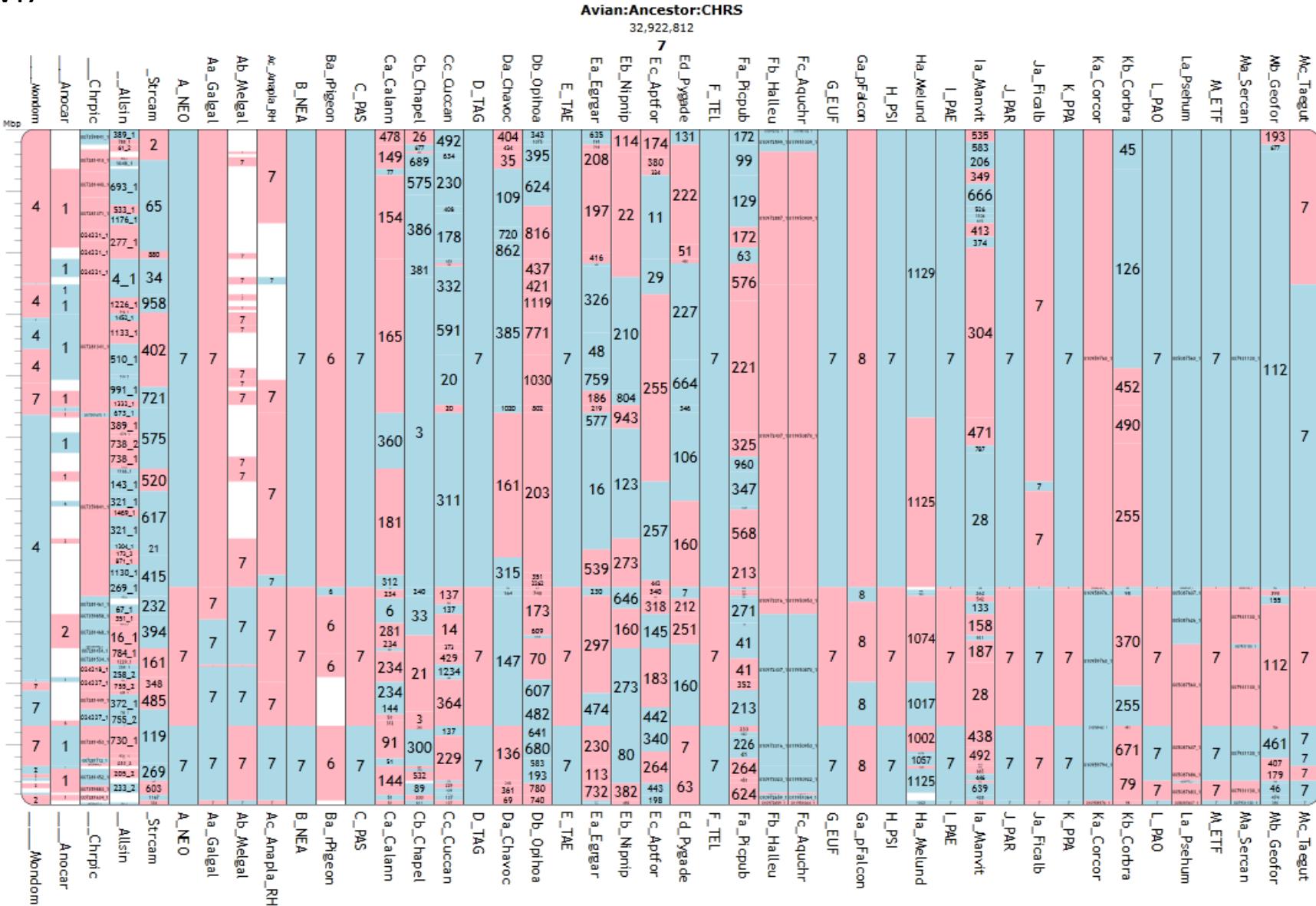
AVI5

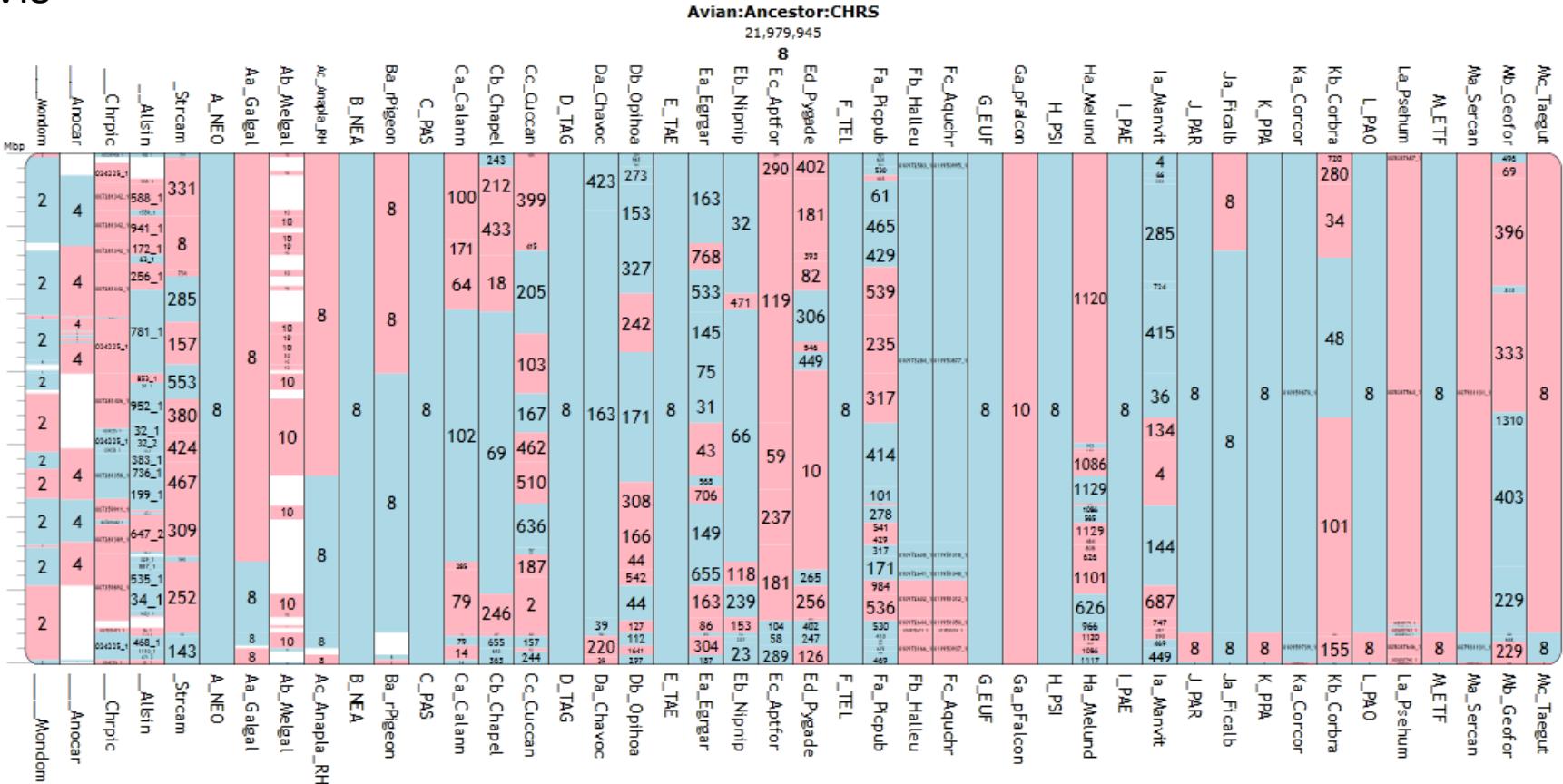
Avian:Ancestor:CHRS

51,045,109



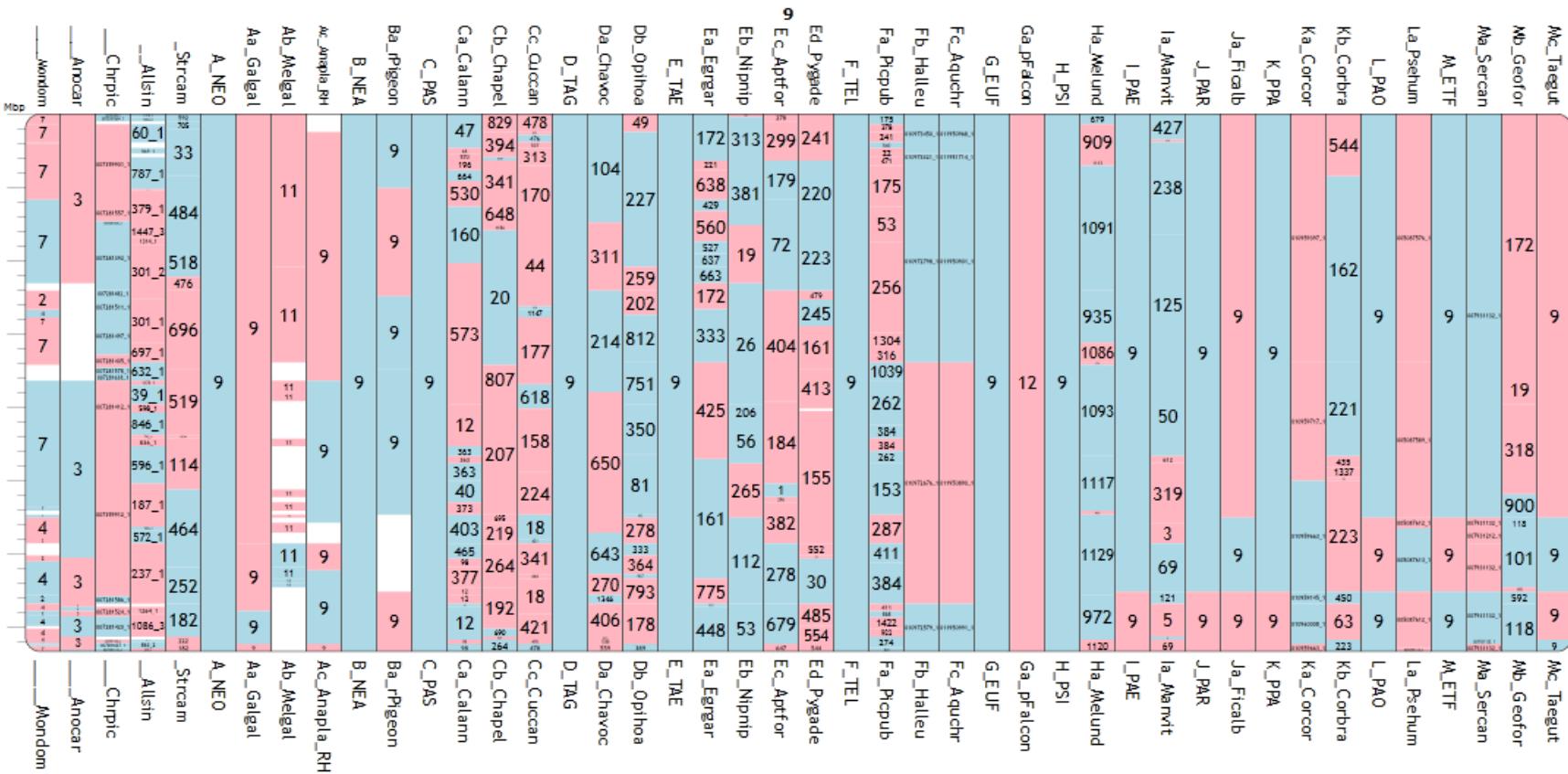


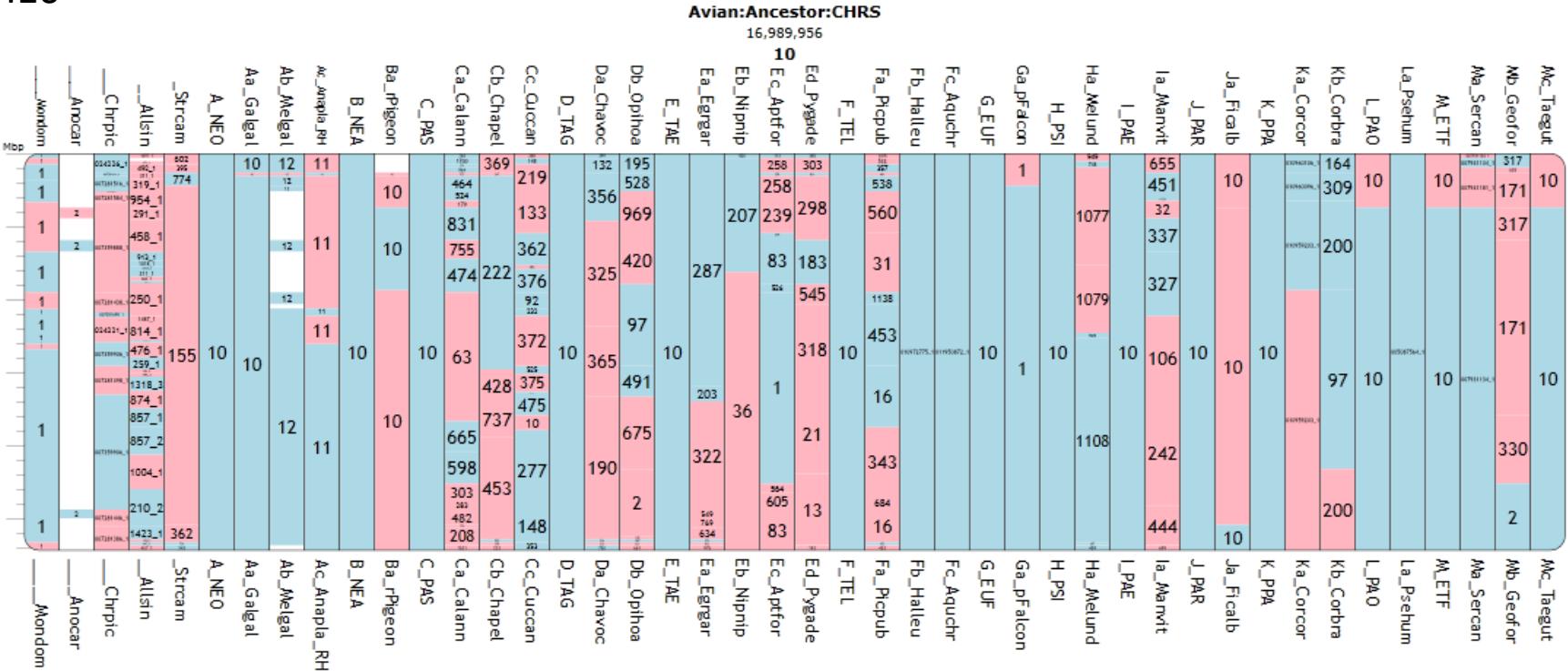




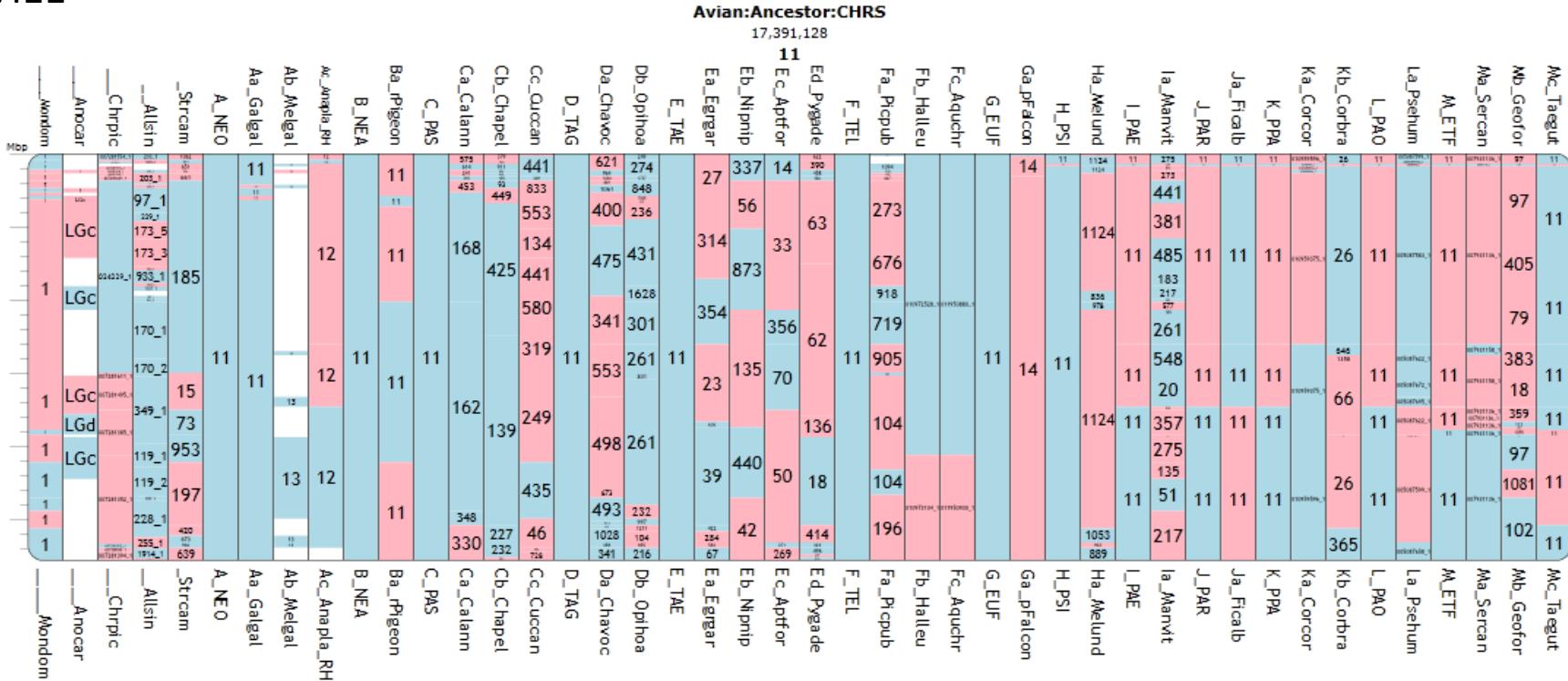
Avian:Ancestor:CHRS

22,929,486

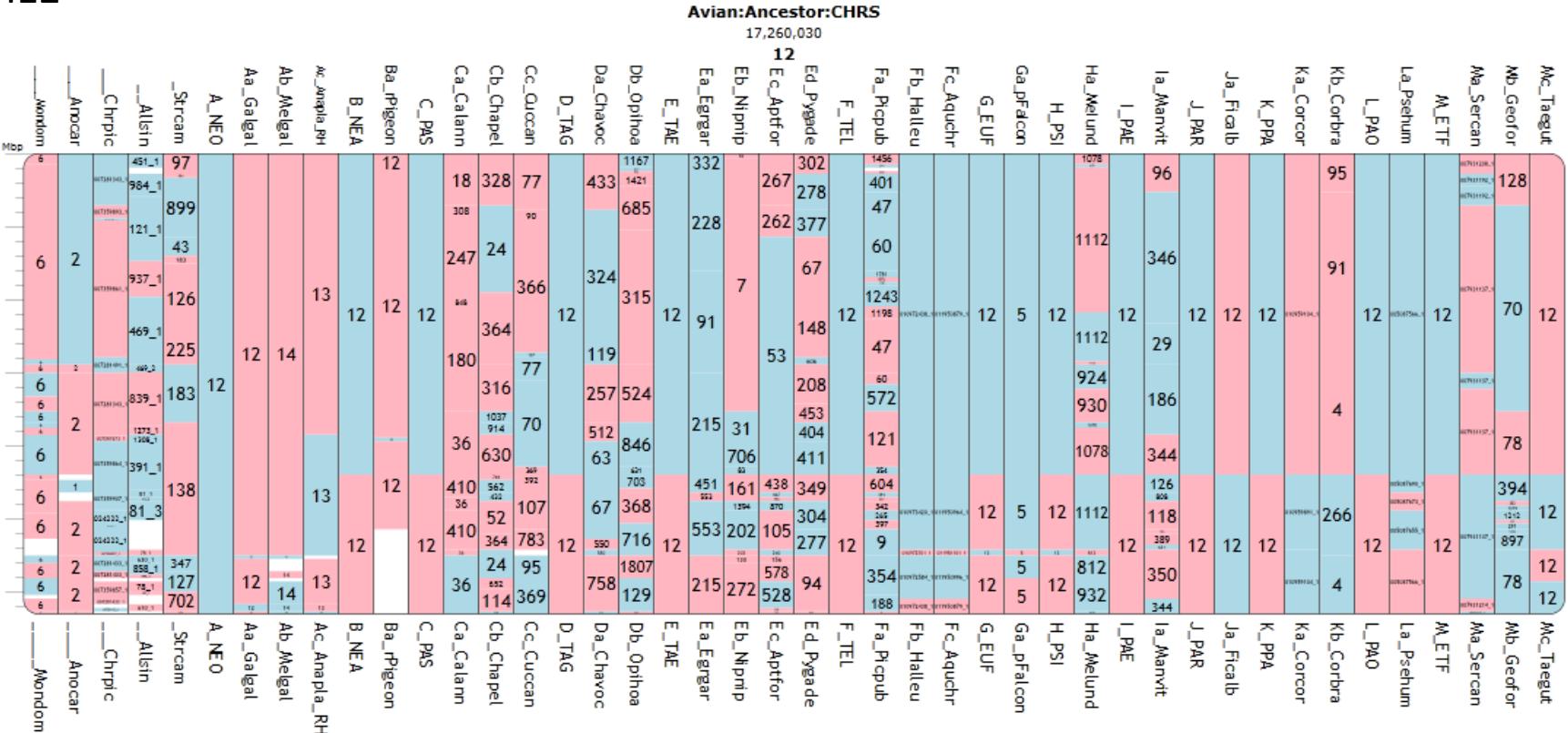




AVI11

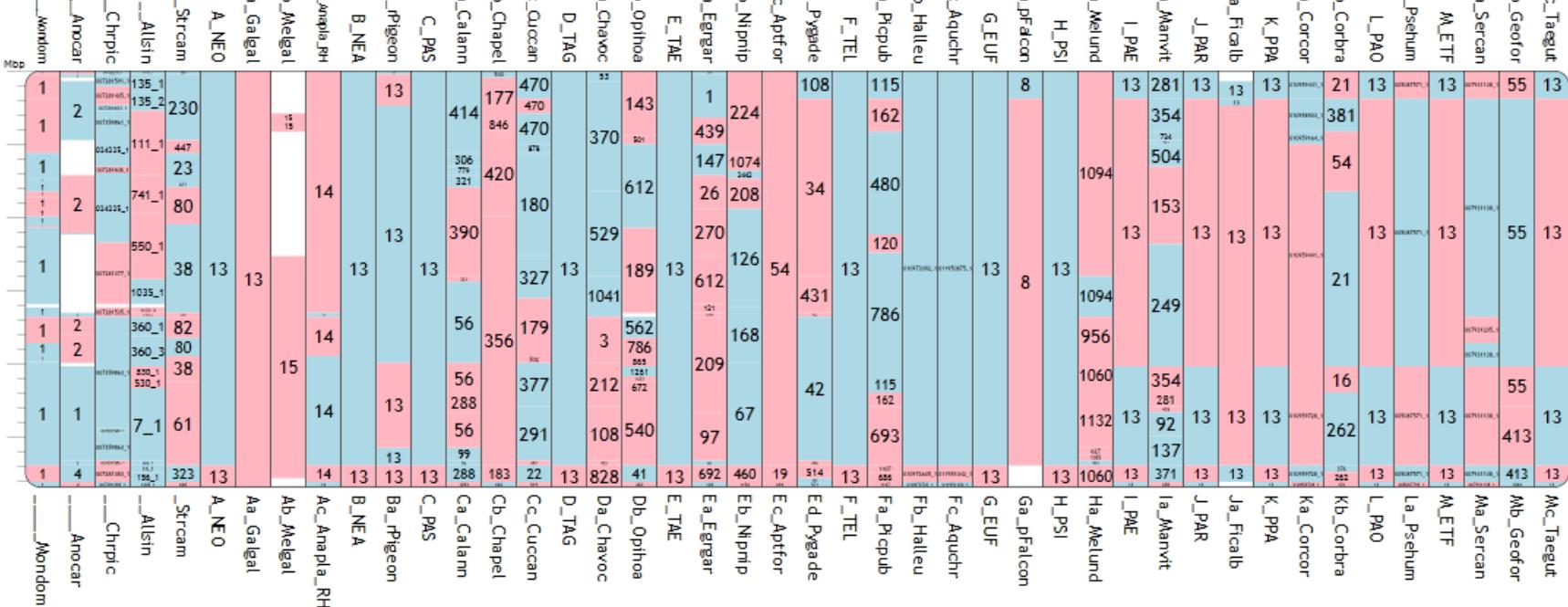


AVI12

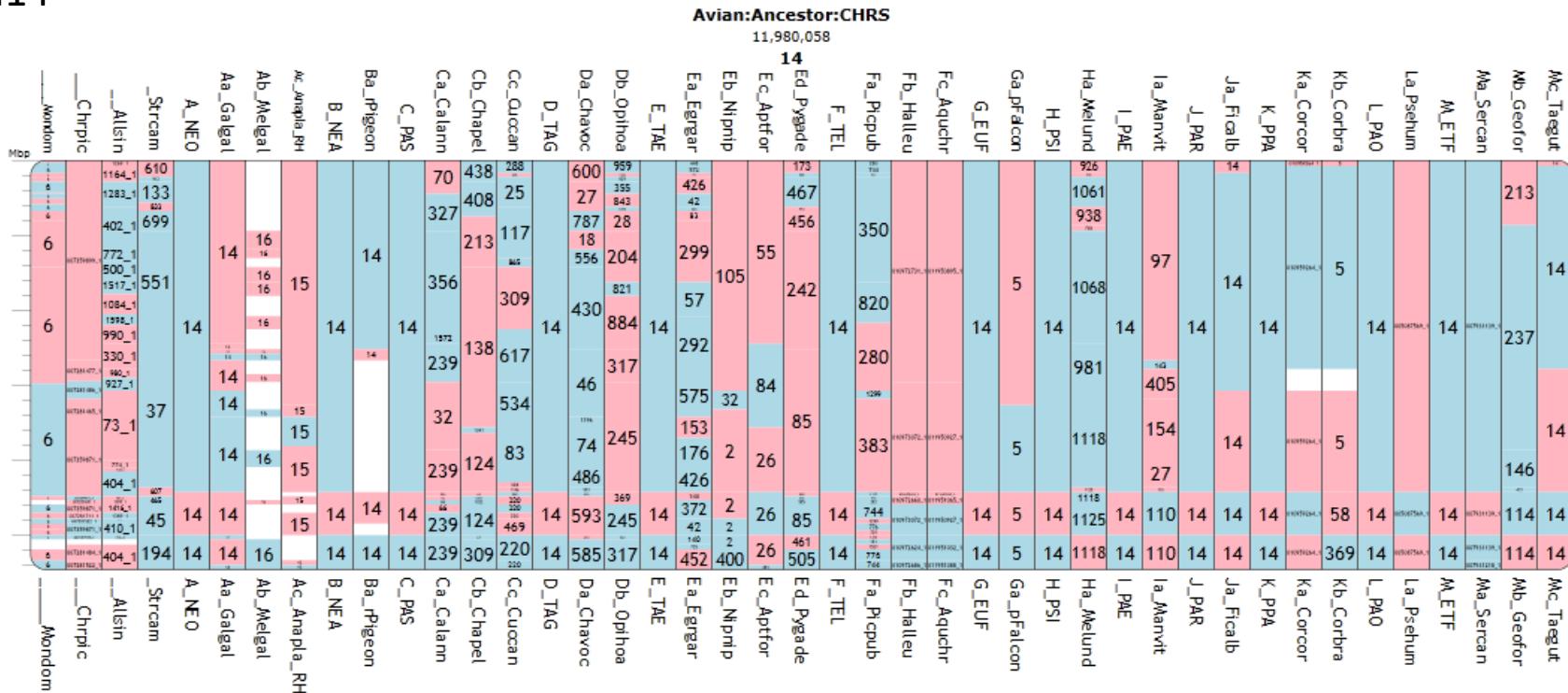


Avian:Ancestor:CHRS

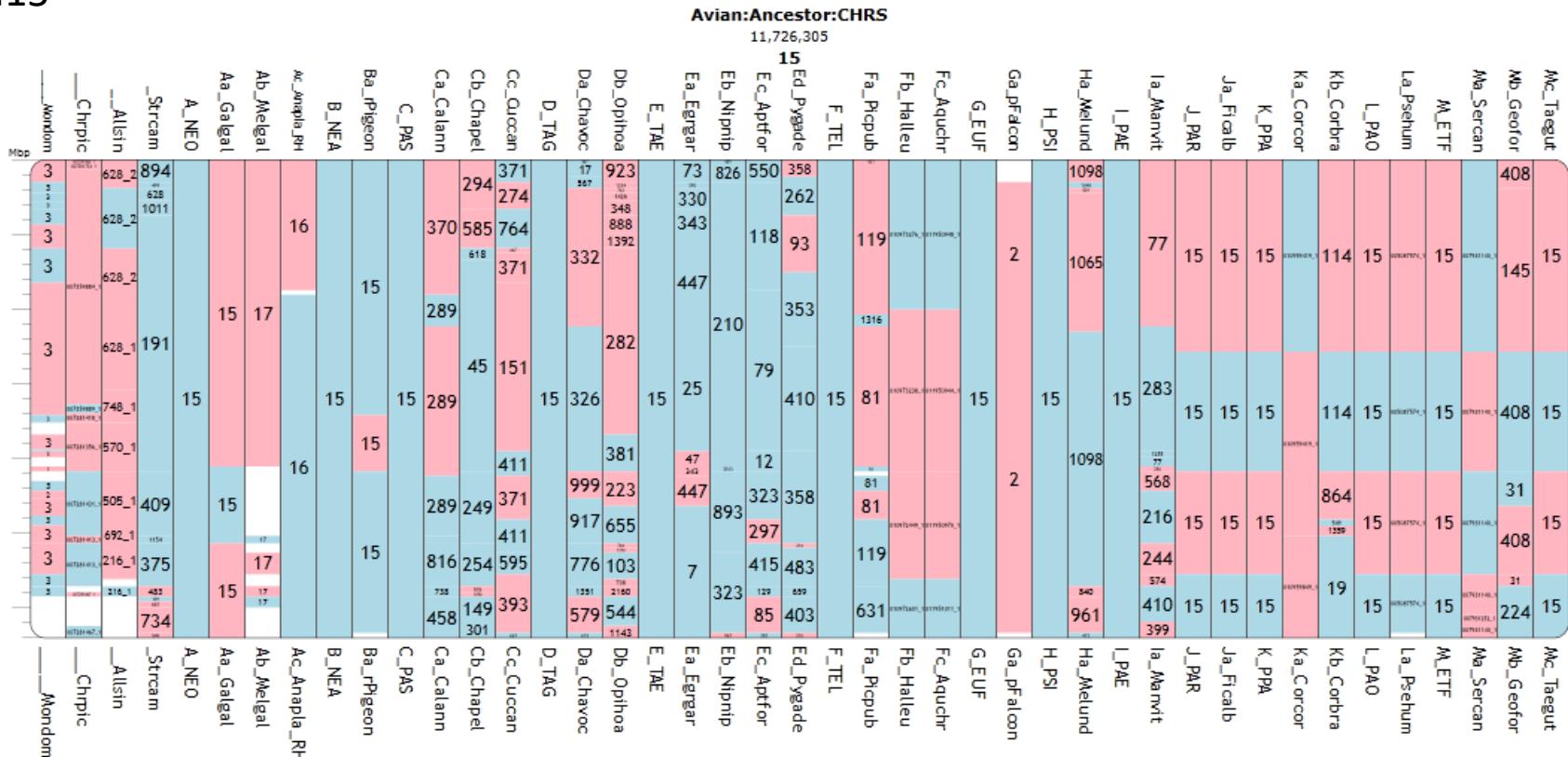
13,843,47

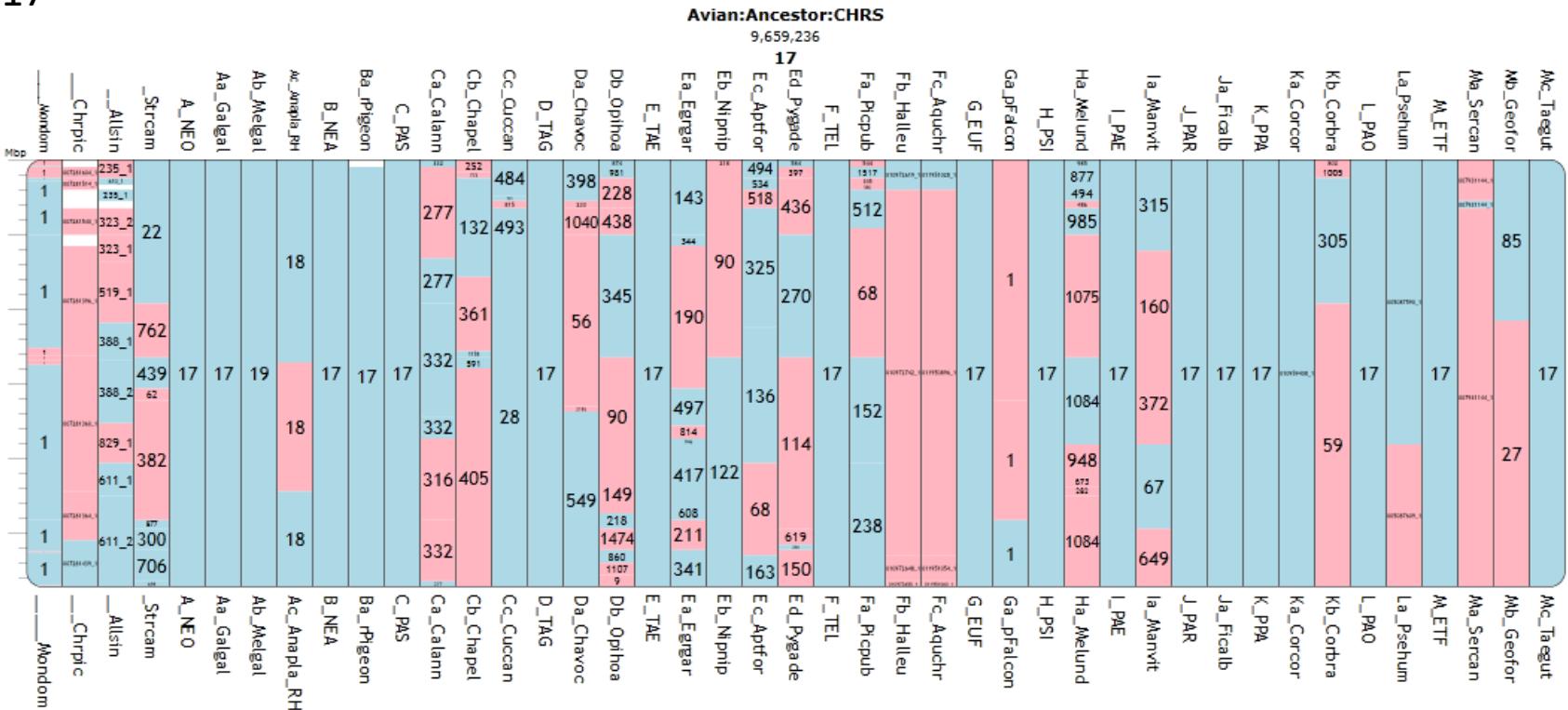


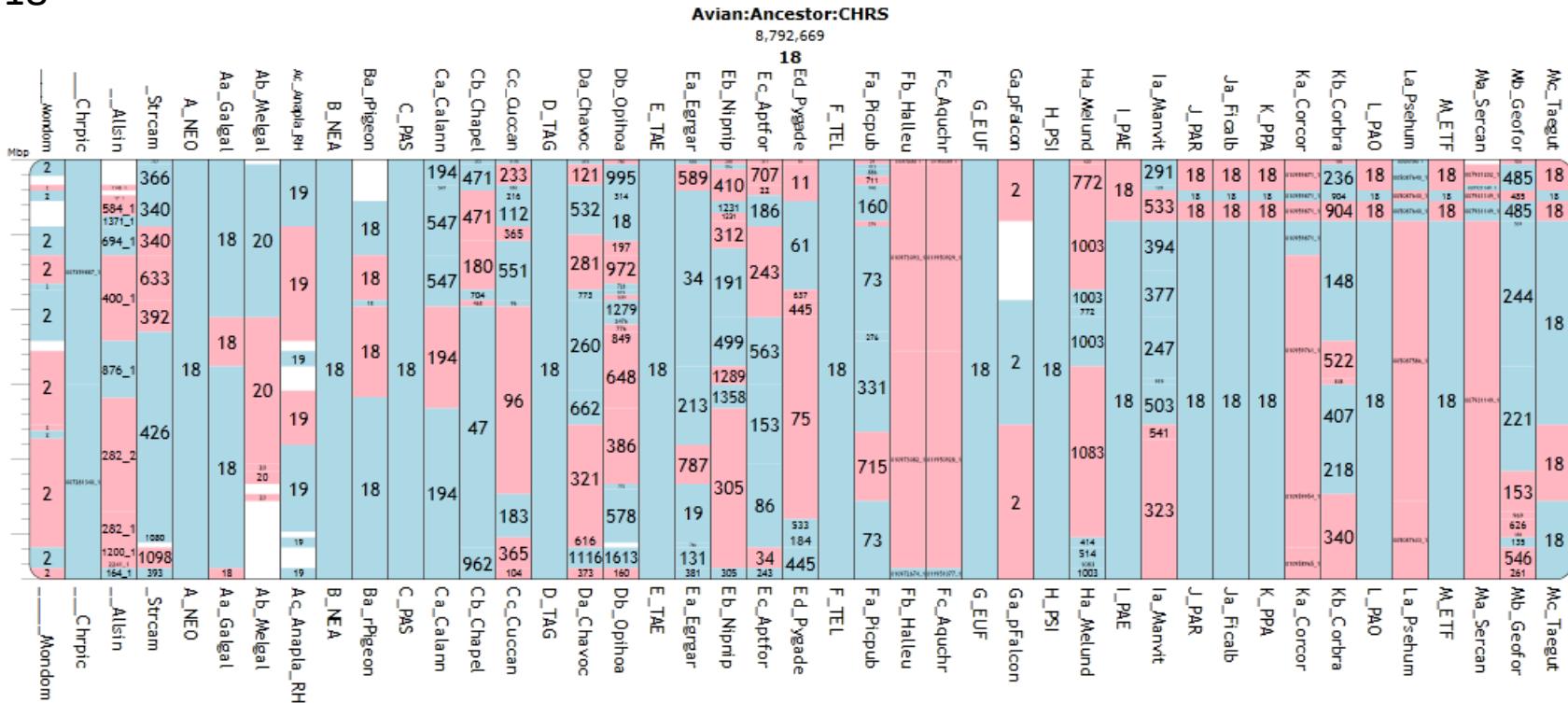
AVI14



AVI15



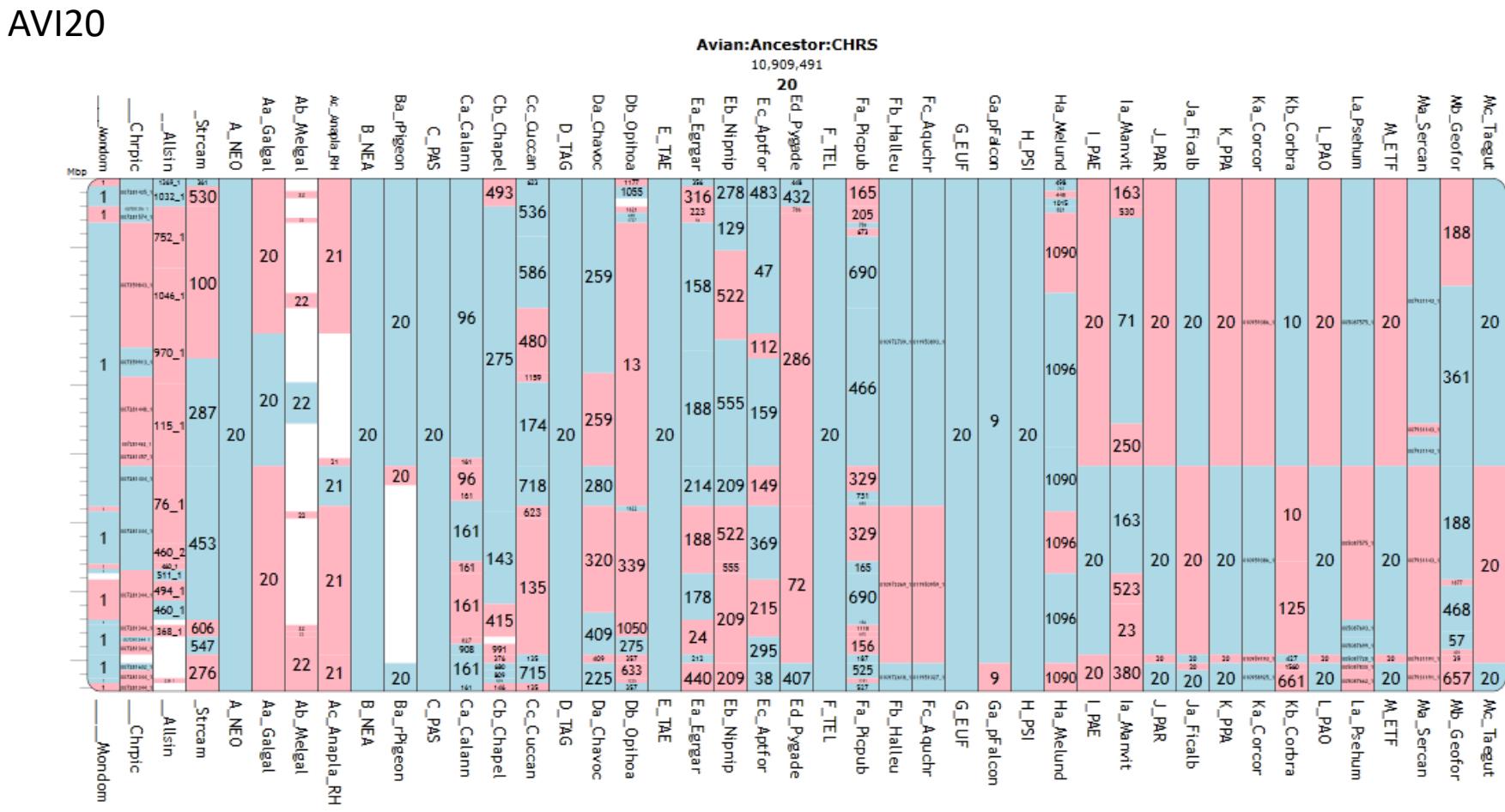




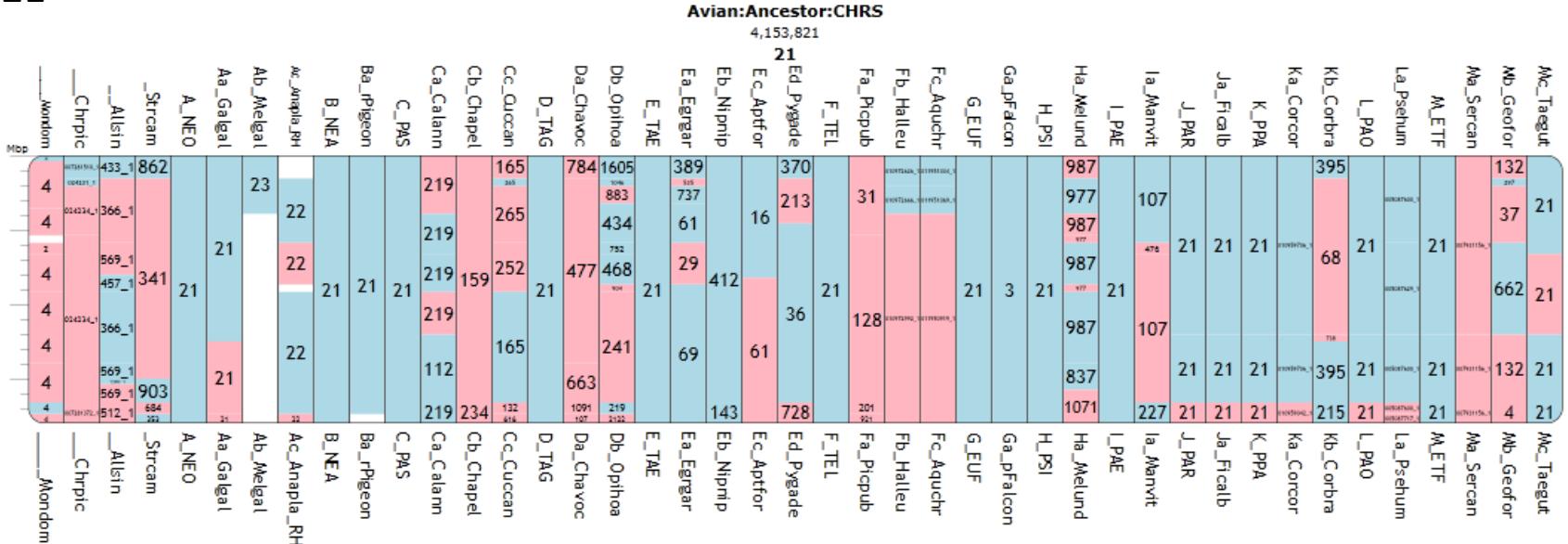
AVI19

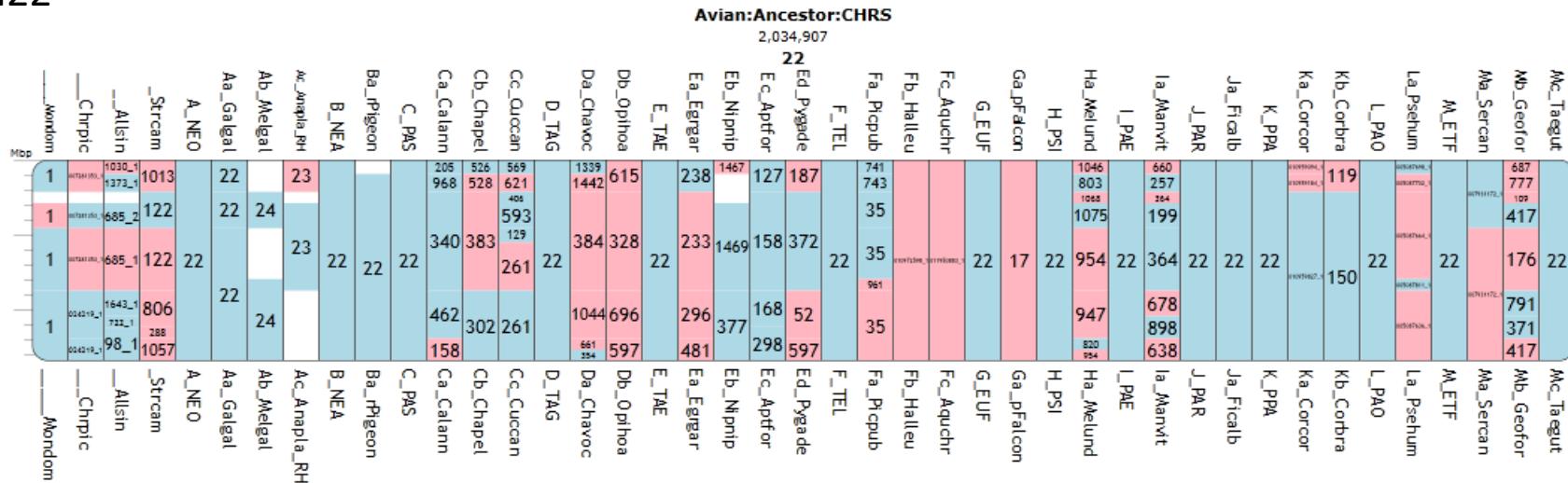
Avian:Ancestor:CHRS

8,896,88

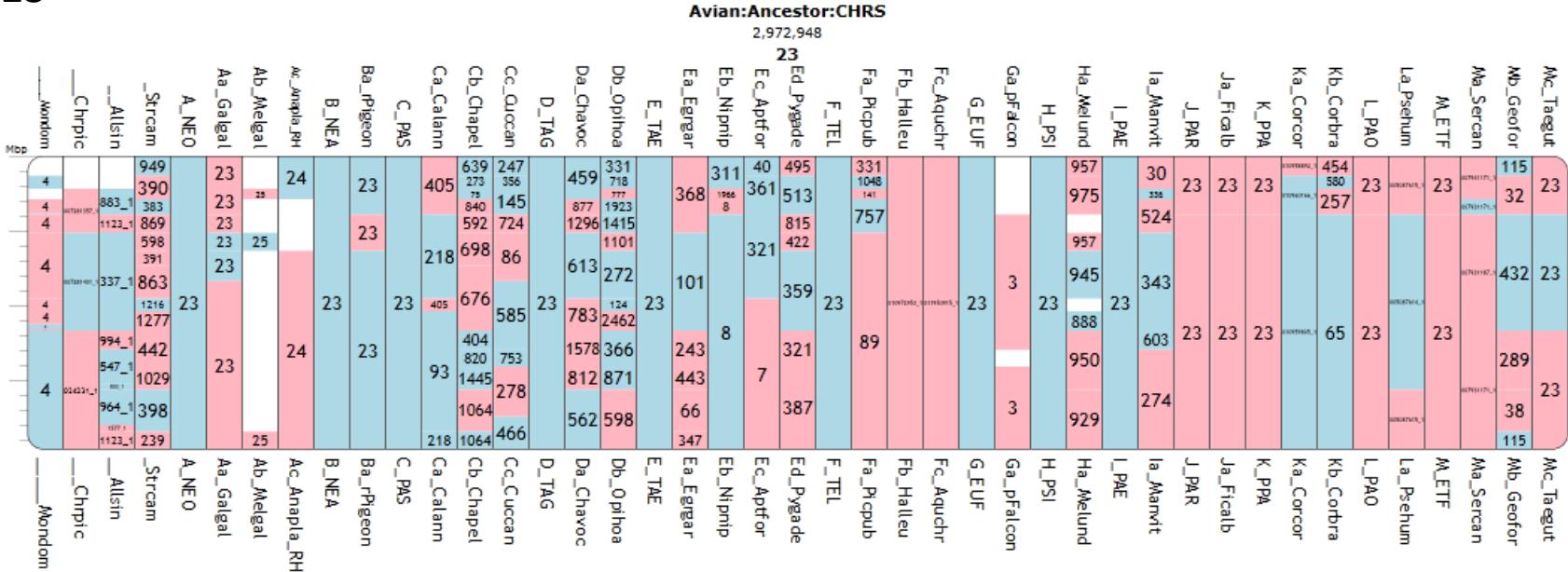


AVI21

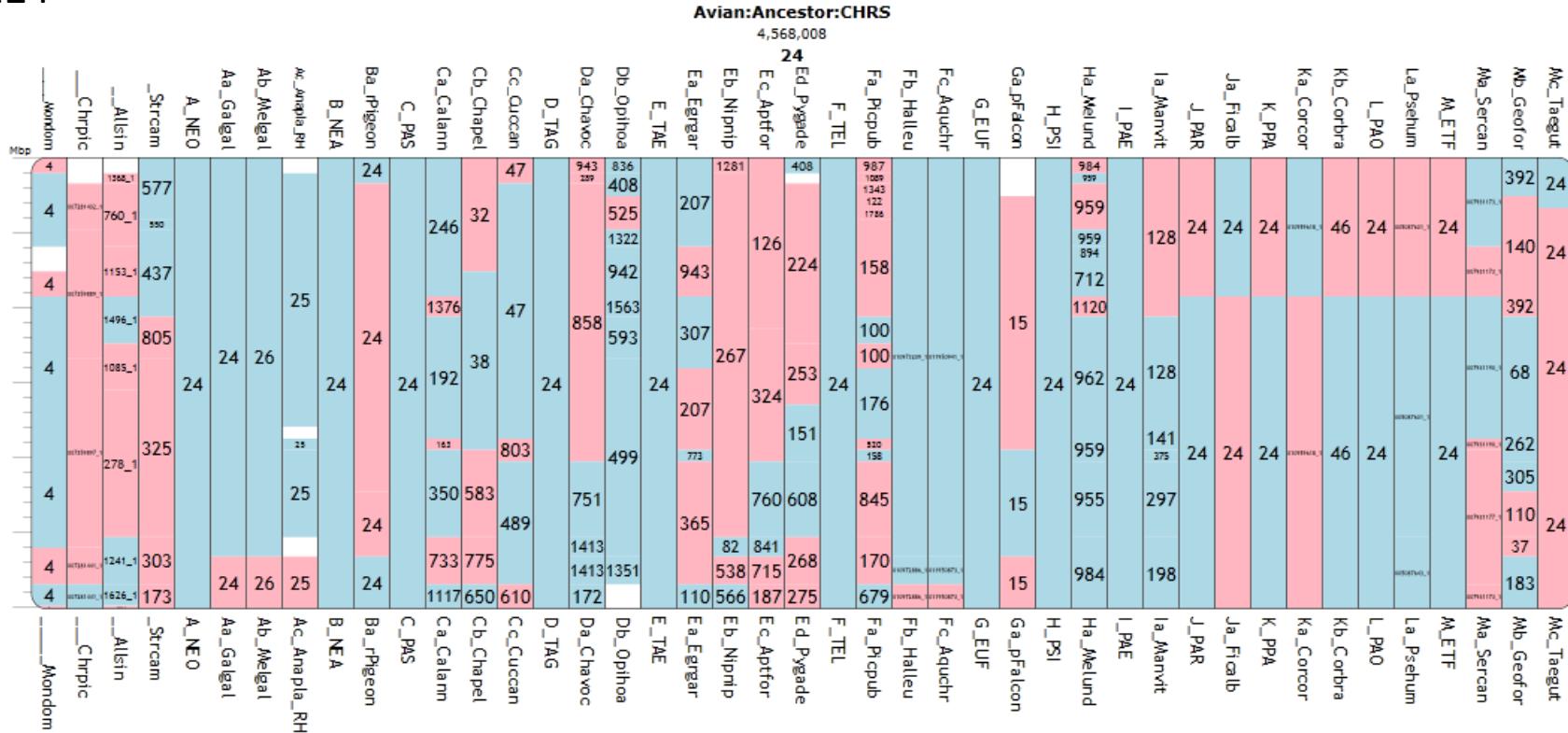


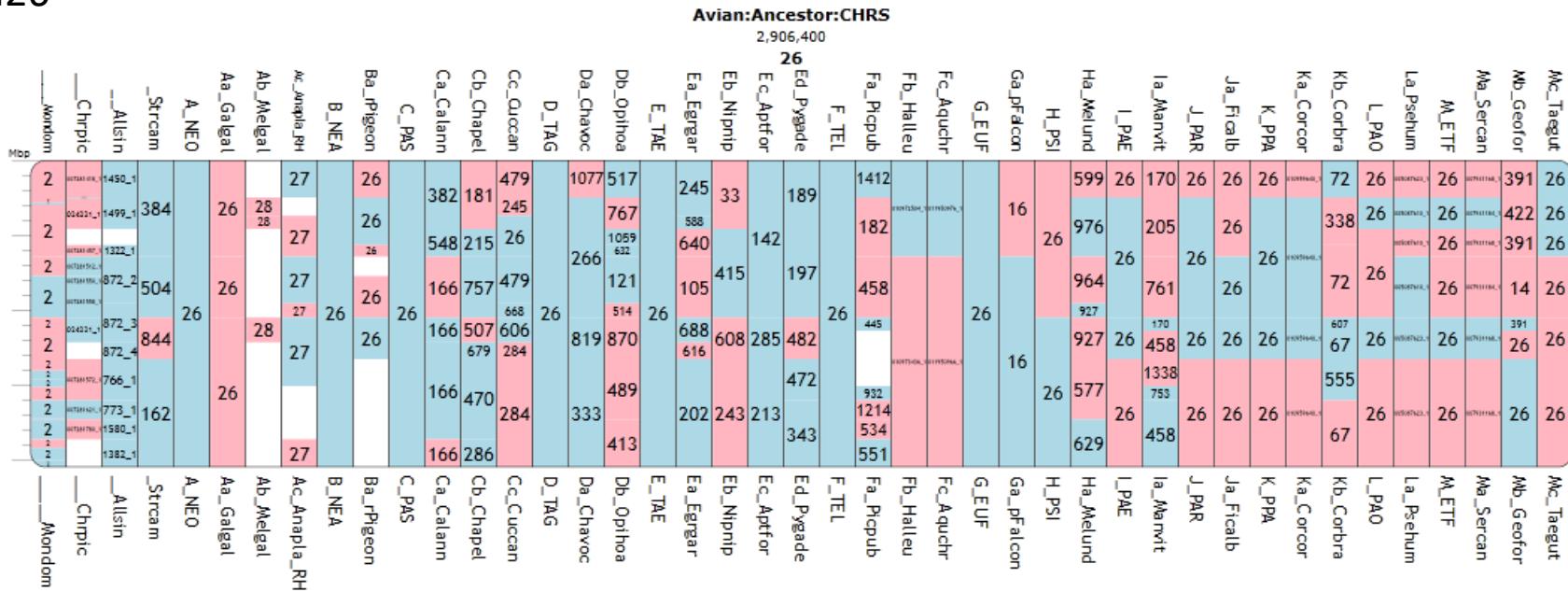


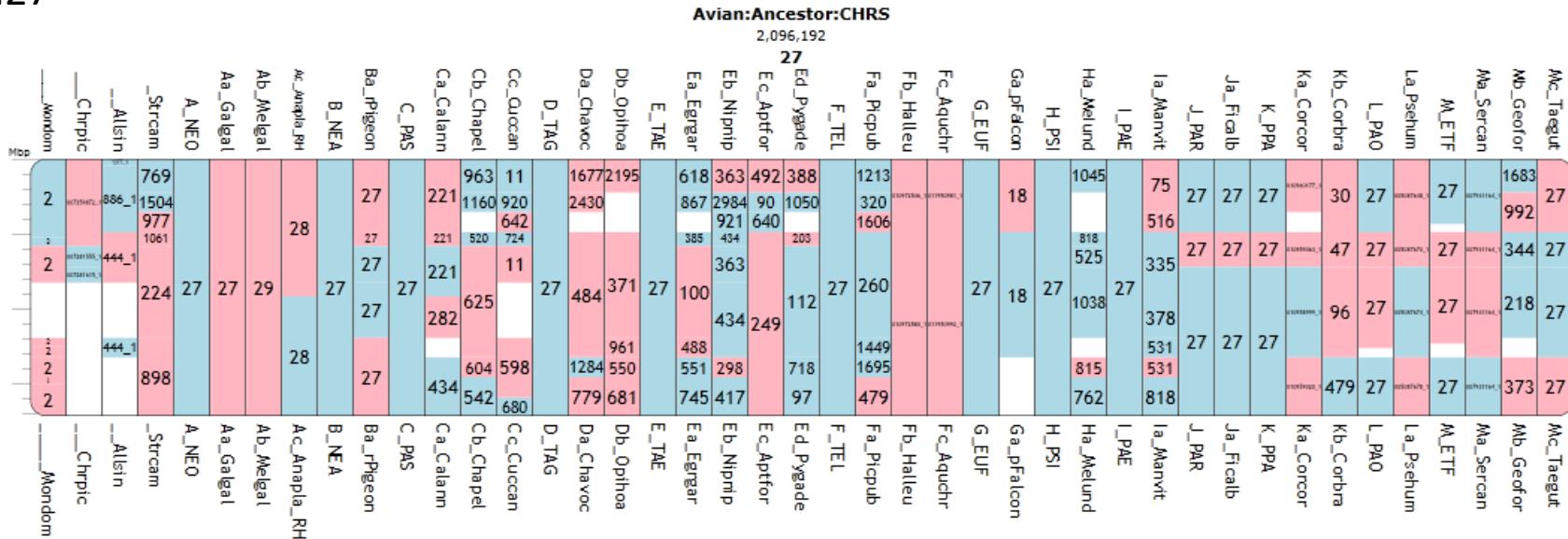
AVI23



AVI24

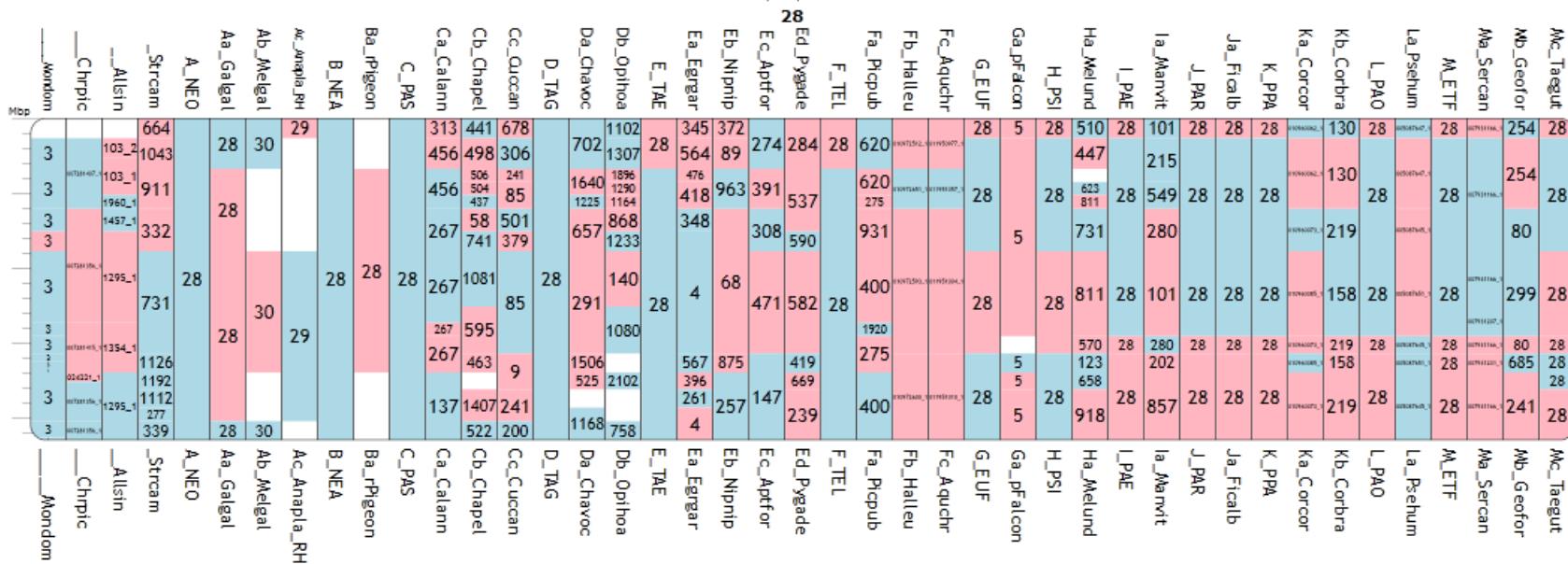






Avian:Ancestor:CHRS

2,625,243



AVIZ

Avian:Ancestor:CHRS

42,674,804

Map	Nb_Geofor		Nb_Taegeut	
	La_Psehum	Ma_Sercan	La_Psehum	Ma_Sercan
La_Psehum	279	Z	279	Z
Ma_Sercan	43	Z	43	Z
M ETF				
Kb_Corbra	22	Zb	Zb	Zb
L_PAO	213	Z	Z	Z
K_PPA	376	Za	Za	Za
I_PAЕ	144	Za	Za	Za
Ia_Manvit	8	Zc	Zc	Zc
Ja_Ficab	310	Zd	Zd	Zd
J_PAR	324	Z	Z	Z
K_PPA	443	Zd	Zd	Zd
Ha_Melund	163	Z	Z	Z
H_PSI	174	Z	Z	Z
Ga_pfalcon	140	Z	Z	Z
G_EUF	139	Z	Z	Z
Fc_Aquchr	132	Z	Z	Z
Fb_Halleu	130	Z	Z	Z
Fa_Pcpub	129	Z	Z	Z
F_TEL	128	Z	Z	Z
Ed_Pygade	127	Z	Z	Z
E_C_Aptfor	126	Z	Z	Z
Eb_Nipnlp	125	Z	Z	Z
Ea_Eggar	124	Z	Z	Z
E_TAE	123	Z	Z	Z
Db_Ophioha	122	Z	Z	Z
D_TAG	121	Z	Z	Z
Cb_Chapel	120	Z	Z	Z
Cc_Cuccan	119	Z	Z	Z
Ca_Calann	118	Z	Z	Z
C_PAS	117	Z	Z	Z
Ba_ipigeon	116	Z	Z	Z
B_NEA	115	Z	Z	Z
Ac_Anapola_RH	114	Z	Z	Z
A_NEO	113	Z	Z	Z
Aa_Melgal	112	Z	Z	Z
Sercam	111	Z	Z	Z
Altisin	110	Z	Z	Z
Chpic	109	Z	Z	Z
Mondom	108	Z	Z	Z
Arncar	107	Z	Z	Z
Mondom	106	Z	Z	Z
Arncar	105	Z	Z	Z
Chpic	104	Z	Z	Z
Altisin	103	Z	Z	Z
Sercam	102	Z	Z	Z
A_NEO	101	Z	Z	Z
Aa_Melgal	100	Z	Z	Z
Ac_Anapola_RH	99	Z	Z	Z
B_NEA	98	Z	Z	Z
Ba_ipigeon	97	Z	Z	Z
Ca_Calann	96	Z	Z	Z
C_PAS	95	Z	Z	Z
Da_Chavoc	94	Z	Z	Z
D_TAG	93	Z	Z	Z
Cb_Chapel	92	Z	Z	Z
Cc_Cuccan	91	Z	Z	Z
Ca_Calann	90	Z	Z	Z
C_PAS	89	Z	Z	Z
Ba_ipigeon	88	Z	Z	Z
B_NEA	87	Z	Z	Z
Ac_Anapola_RH	86	Z	Z	Z
A_NEO	85	Z	Z	Z
Aa_Melgal	84	Z	Z	Z
Sercam	83	Z	Z	Z
Altisin	82	Z	Z	Z
Chpic	81	Z	Z	Z
Mondom	80	Z	Z	Z
Arncar	79	Z	Z	Z
Chpic	78	Z	Z	Z
Altisin	77	Z	Z	Z
Sercam	76	Z	Z	Z
A_NEO	75	Z	Z	Z
Aa_Melgal	74	Z	Z	Z
Ac_Anapola_RH	73	Z	Z	Z
B_NEA	72	Z	Z	Z
Ba_ipigeon	71	Z	Z	Z
Ca_Calann	70	Z	Z	Z
C_PAS	69	Z	Z	Z
Da_Chavoc	68	Z	Z	Z
D_TAG	67	Z	Z	Z
Cb_Chapel	66	Z	Z	Z
Cc_Cuccan	65	Z	Z	Z
Ca_Calann	64	Z	Z	Z
C_PAS	63	Z	Z	Z
Ba_ipigeon	62	Z	Z	Z
B_NEA	61	Z	Z	Z
Ac_Anapola_RH	60	Z	Z	Z
A_NEO	59	Z	Z	Z
Aa_Melgal	58	Z	Z	Z
Sercam	57	Z	Z	Z
Altisin	56	Z	Z	Z
Chpic	55	Z	Z	Z
Mondom	54	Z	Z	Z
Arncar	53	Z	Z	Z
Chpic	52	Z	Z	Z
Altisin	51	Z	Z	Z
Sercam	50	Z	Z	Z
A_NEO	49	Z	Z	Z
Aa_Melgal	48	Z	Z	Z
Ac_Anapola_RH	47	Z	Z	Z
B_NEA	46	Z	Z	Z
Ba_ipigeon	45	Z	Z	Z
Ca_Calann	44	Z	Z	Z
C_PAS	43	Z	Z	Z
Da_Chavoc	42	Z	Z	Z
D_TAG	41	Z	Z	Z
Cb_Chapel	40	Z	Z	Z
Cc_Cuccan	39	Z	Z	Z
Ca_Calann	38	Z	Z	Z
C_PAS	37	Z	Z	Z
Ba_ipigeon	36	Z	Z	Z
B_NEA	35	Z	Z	Z
Ac_Anapola_RH	34	Z	Z	Z
A_NEO	33	Z	Z	Z
Aa_Melgal	32	Z	Z	Z
Sercam	31	Z	Z	Z
Altisin	30	Z	Z	Z
Chpic	29	Z	Z	Z
Mondom	28	Z	Z	Z
Arncar	27	Z	Z	Z
Chpic	26	Z	Z	Z
Altisin	25	Z	Z	Z
Sercam	24	Z	Z	Z
A_NEO	23	Z	Z	Z
Aa_Melgal	22	Z	Z	Z
Ac_Anapola_RH	21	Z	Z	Z
B_NEA	20	Z	Z	Z
Ba_ipigeon	19	Z	Z	Z
Ca_Calann	18	Z	Z	Z
C_PAS	17	Z	Z	Z
Da_Chavoc	16	Z	Z	Z
D_TAG	15	Z	Z	Z
Cb_Chapel	14	Z	Z	Z
Cc_Cuccan	13	Z	Z	Z
Ca_Calann	12	Z	Z	Z
C_PAS	11	Z	Z	Z
Ba_ipigeon	10	Z	Z	Z
B_NEA	9	Z	Z	Z
Ac_Anapola_RH	8	Z	Z	Z
A_NEO	7	Z	Z	Z
Aa_Melgal	6	Z	Z	Z
Sercam	5	Z	Z	Z
Altisin	4	Z	Z	Z
Chpic	3	Z	Z	Z
Mondom	2	Z	Z	Z
Arncar	1	Z	Z	Z
Chpic	0	Z	Z	Z