

Output results of CLIME (CLustering by Inferred Models of Evolution)

Dataset:

Num of genes in input gene set: 44
Total number of genes: 20834
Prediction LLR threshold: 0

The CLIME PDF output two sections:

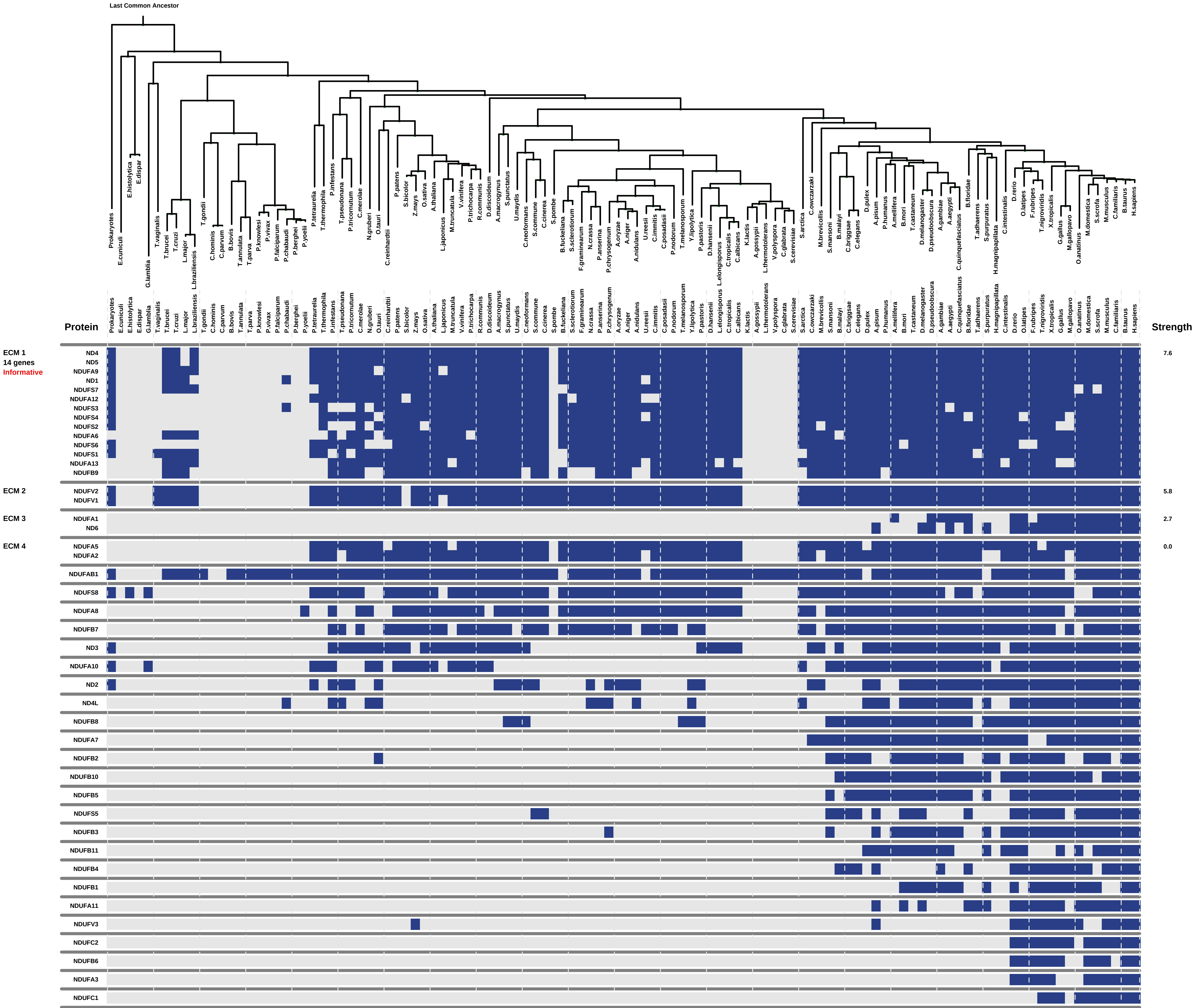
1) Overview of Evolutionarily Conserved Modules (ECMs)

- Top panel shows the predefined species tree.
- Bottom panel shows the partition of input genes into Evolutionary Conserved Modules (ECMs), ordered by ECM strength (shown at right), and separated by horizontal lines.
- Each row show one gene, where the phylogenetic profile indicates presence (blue) or absence (gray) of homologs in each species (column).
- Gene symbols are shown at left. Gray color indicates that the gene is a paralog to a higher scoring gene within the same ECM (based on BLASTP $E < 1e-3$).

2) Details of each ECM and its expansion ECM+

- Top panel shows the inferred evolutionary history on the predefined species tree. Branch color shows the gain event (blue) and loss events (red color, with brighter color indicating higher confidence in loss). Branches before the gain or after a loss are shown in gray.
- Bottom panel shows the input genes that are within the ECM (blue/white rows) as well as all genes in the expanded ECM+ (green/gray rows). The ECM+ includes genes likely to have arisen under the inferred model of evolution relative to a background model, and scored using a log likelihood ratio (LLR).
- PG indicates "paralog group" and are labeled alphabetically (i.e., A, B). The first gene within each paralog group is shown in black color. All other genes sharing sequence similarity (BLAST $E < 1e-3$) are assigned to the same PG label and displayed in gray.

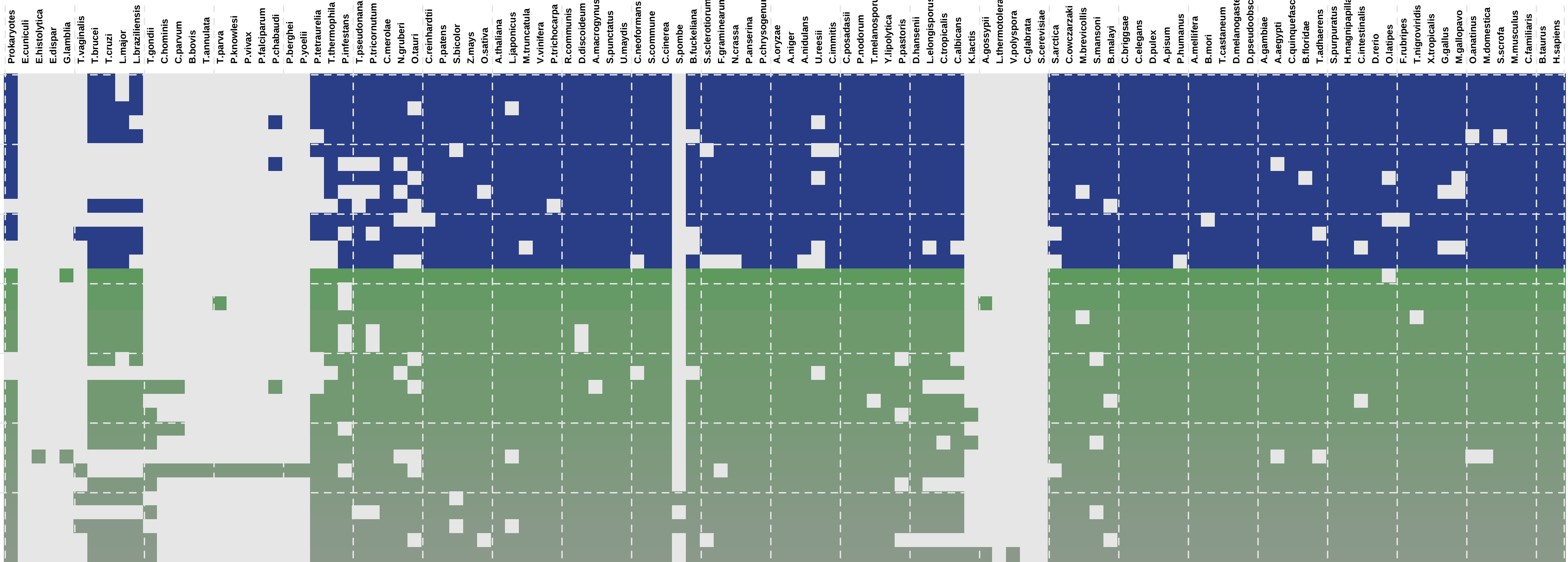
Overview of Evolutionarily Conserved Modules (ECMs)



Num of ECM Genes: 14. Num of Predicted Genes: 52. ECM Strength: 7.6

Log-likelihood Ratio Scale

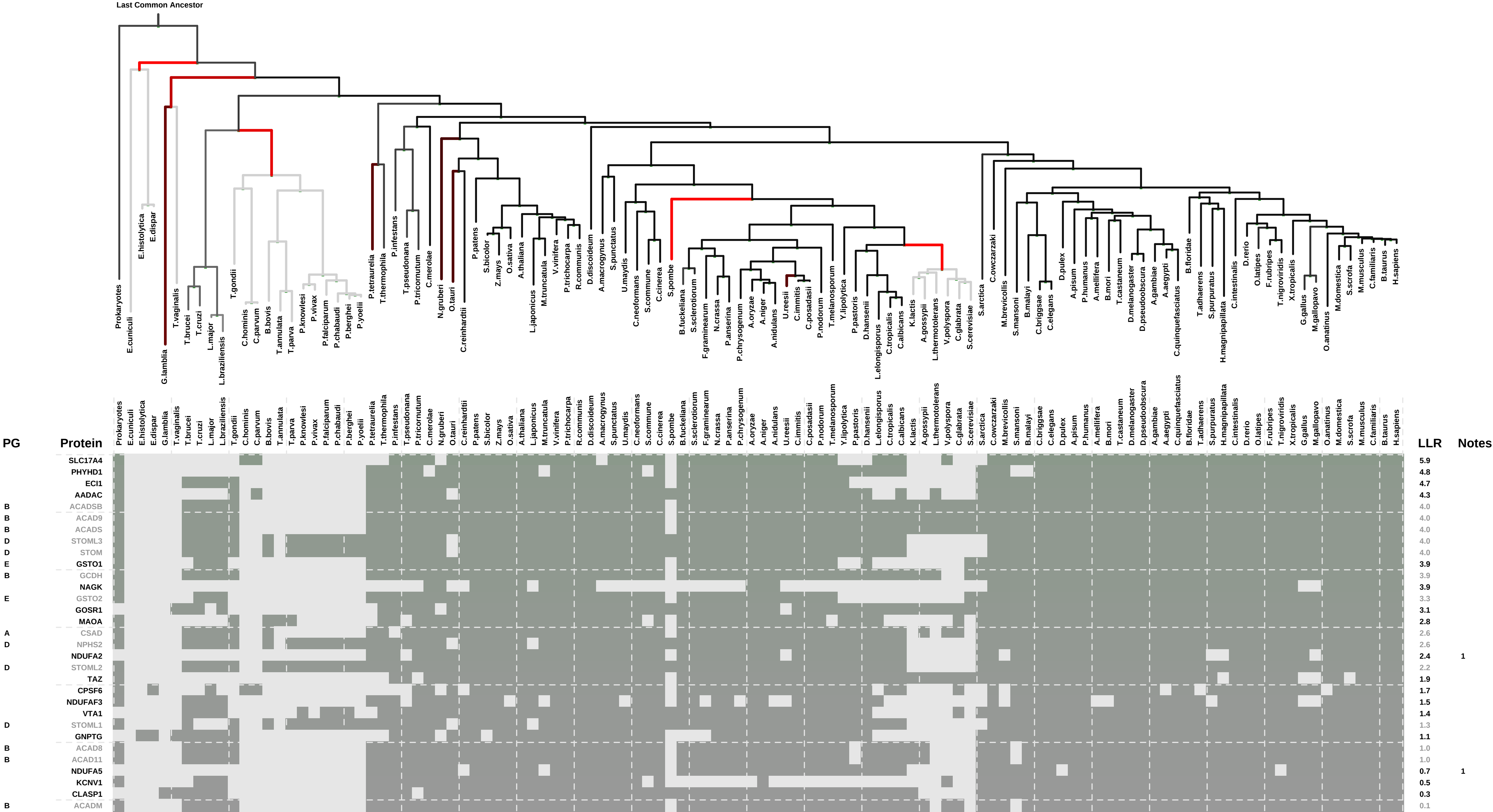
0 10 20 30 40 50 60



1: Oxphos Complex 1

ECM 1, Gene set "Oxphos Complex 1", Page 2

Num of ECM Genes: 14. Num of Predicted Genes: 52. ECM Strength: 7.6

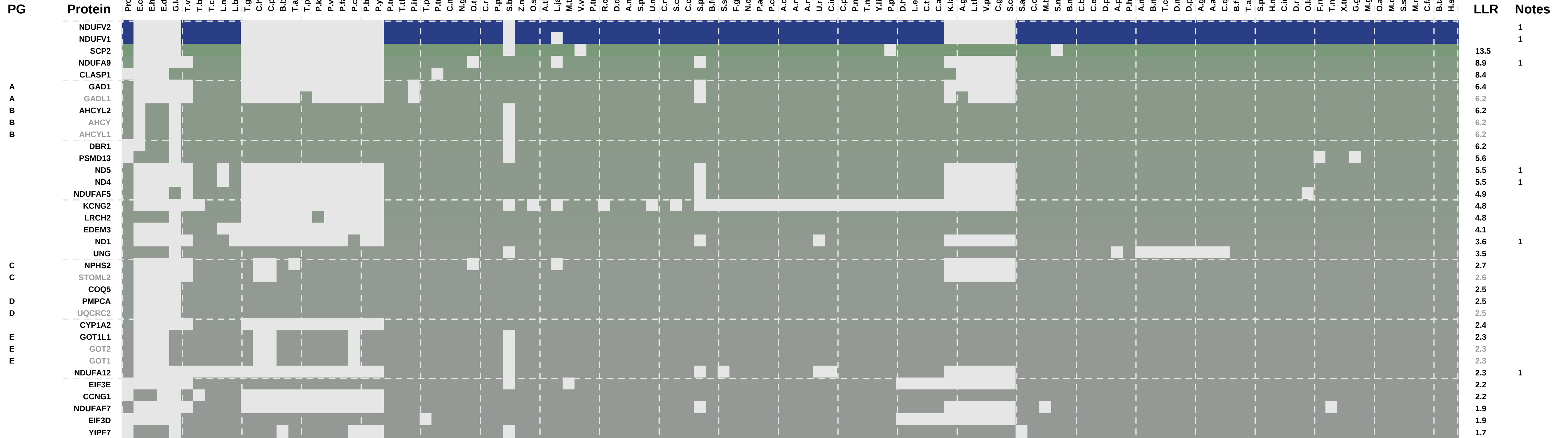


1: Oxphos Complex 1

Num of ECM Genes: 2. Num of Predicted Genes: 45. ECM Strength: 5.8

Log-likelihood Ratio Scale

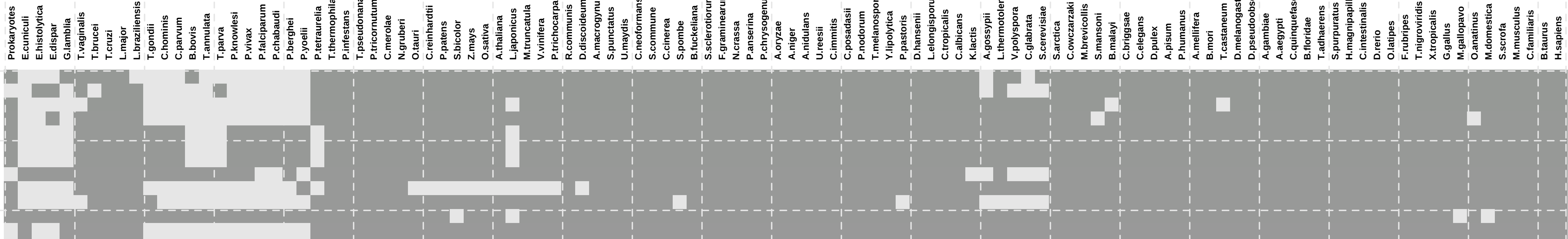
0 10 20 30 40 50 60



1: Oxphos Complex 1

Num of ECM Genes: 2. Num of Predicted Genes: 45. ECM Strength: 5.8

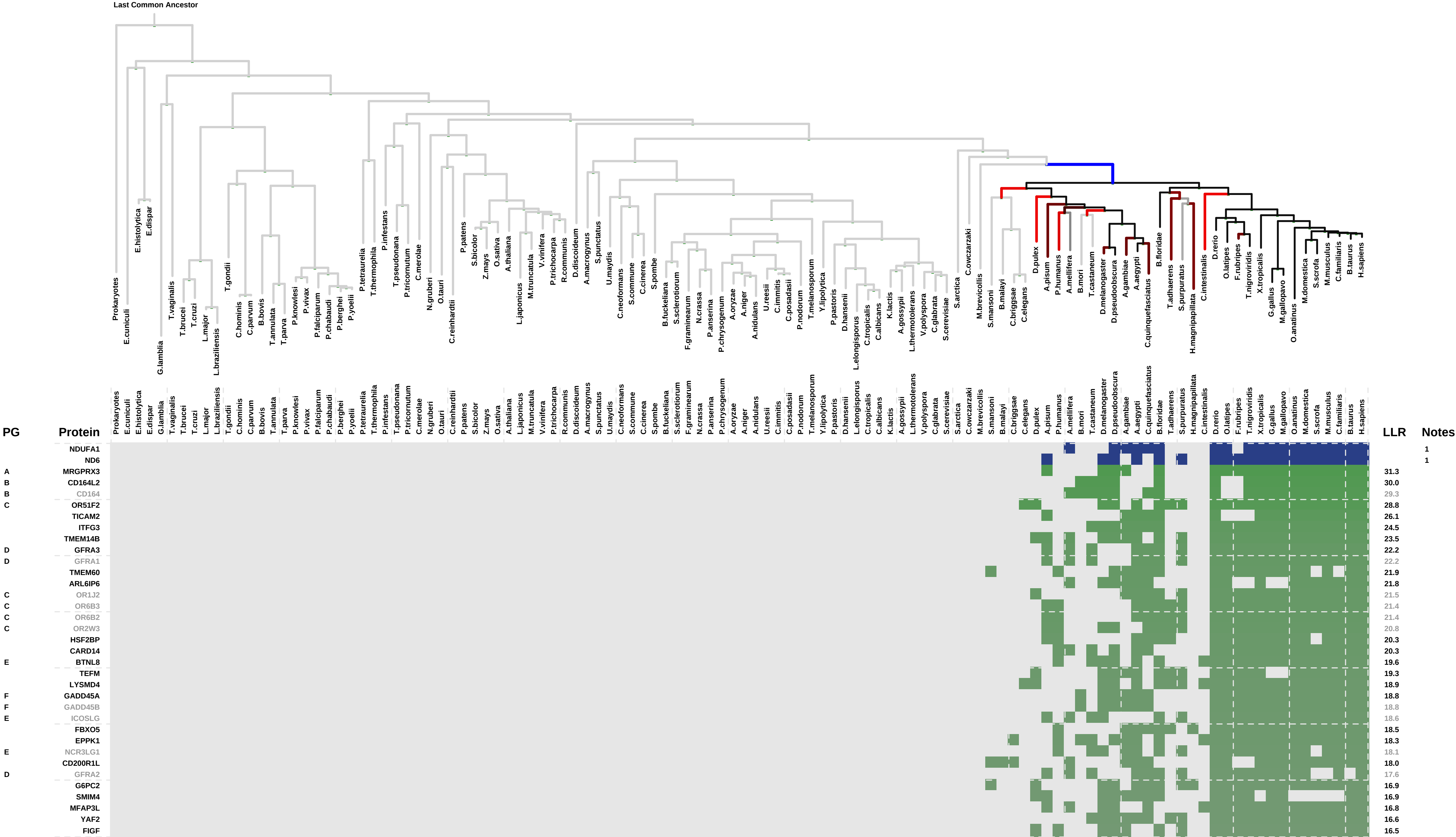
Log-likelihood Ratio Scale



LLR Notes

ECM 3, Gene set "Oxphos Complex 1", Page 1

Num of ECM Genes: 2. Num of Predicted Genes: 200. ECM Strength: 2.7



1: Oxphos Complex 1

ECM 3, Gene set "Oxphos Complex 1", Page 2

Num of ECM Genes: 2. Num of Predicted Genes: 200. ECM Strength: 2.7

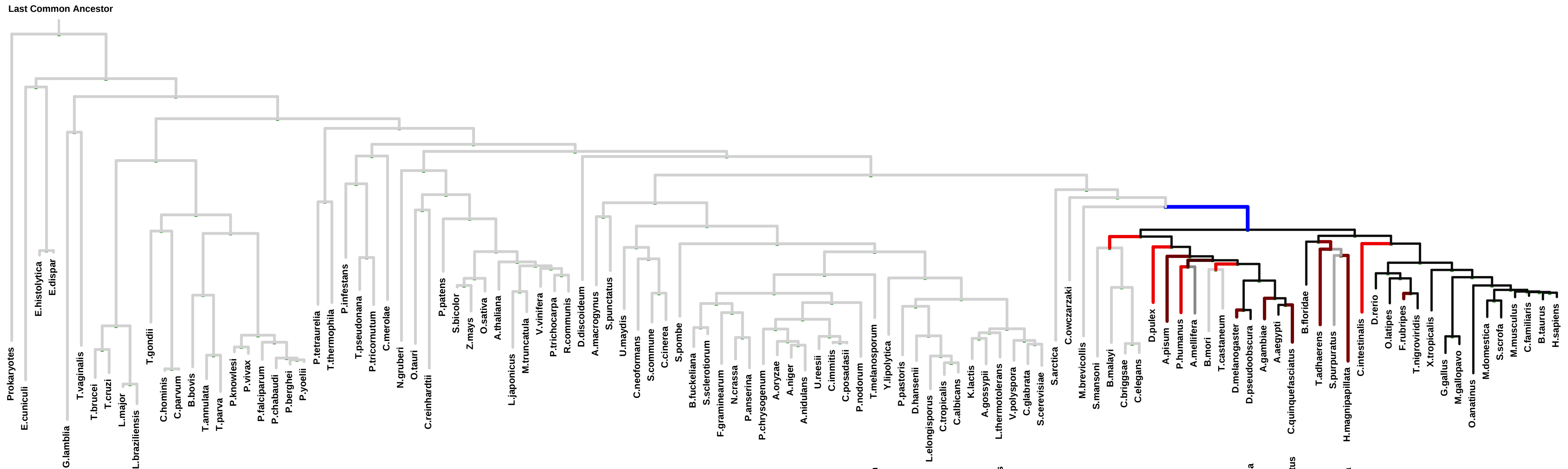
PRESENCE _____

GAIN _____

ABSENCE

LOSS _____

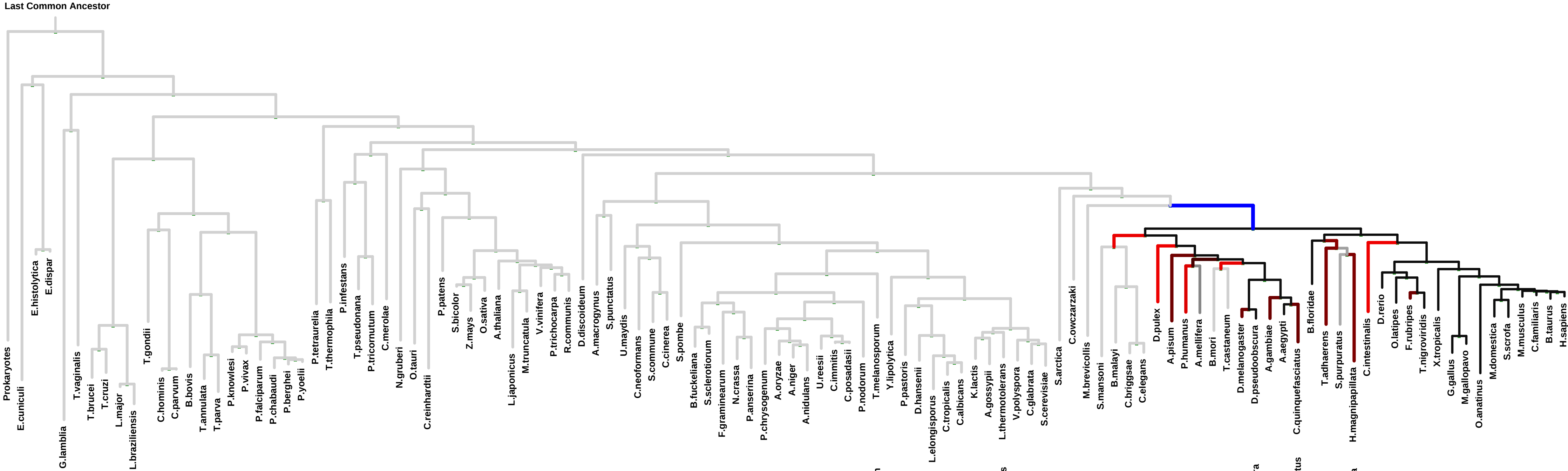
Log-likelihood Ratio Scale

[illegible]

1: Oxphos Complex 1

ECM 3, Gene set "Oxphos Complex 1", Page 3

Num of ECM Genes: 2. Num of Predicted Genes: 200. ECM Strength: 2.7



PG	Protein	LLR	Notes
C	OR52K2	10.6	
	COA3	10.4	
	FNDC5	10.4	
A	MRGPRX4	10.3	
	MID1IP1	10.2	
	DTHD1	10.1	
H	WISP2	10.0	
	FAM69C	9.9	
	FAM69B	9.9	
M	RILP	9.9	
	LYRM2	9.5	
	PGLYRP4	9.2	
C	OR52N5	8.6	
	TACSTD2	8.5	
	FAM193A	8.4	
I	CACNG2	8.4	
	TNFSF13B	8.3	
C	OR4C46	7.9	
	FGF23	7.8	
	DAPL1	7.8	
O	IGSF5	7.7	
	KIAA0825	7.6	
	UQCR11	7.6	
E	EBAG9	7.5	
	QSER1	7.4	
	SHARPIN	7.1	
F	BTNL3	7.1	
	KIAA1407	7.0	
	GADD45G	6.8	
C	OR5AS1	6.5	
	IGFBP4	6.4	
	ARL14EP	6.3	
H	CYR61	6.1	
	OR10H5	6.1	
	CACNG7	6.0	

ECM 3, Gene set "Oxphos Complex 1", Page 4

Num of ECM Genes: 2. Num of Predicted Genes: 200. ECM Strength: 2.7

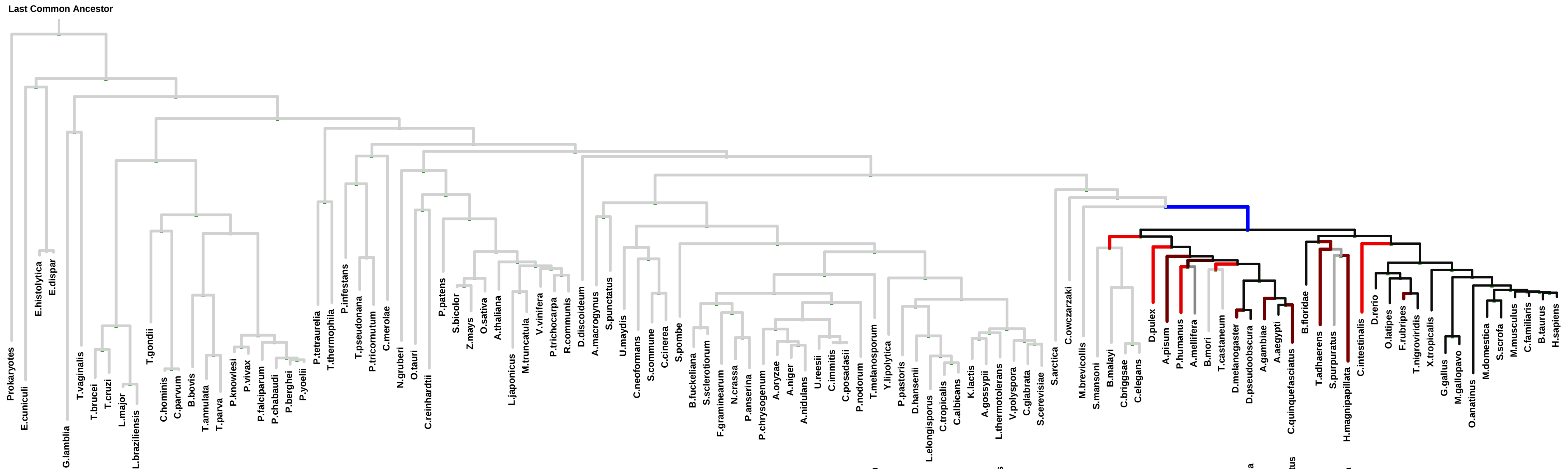
PRESENCE _____

GAIN _____

ABSENCE

LOSS

Log-likelihood Ratio Scale

[illegible]

1: Oxphos Complex 1

ECM 3, Gene set "Oxphos Complex 1", Page 5

Num of ECM Genes: 2. Num of Predicted Genes: 200. ECM Strength: 2.7

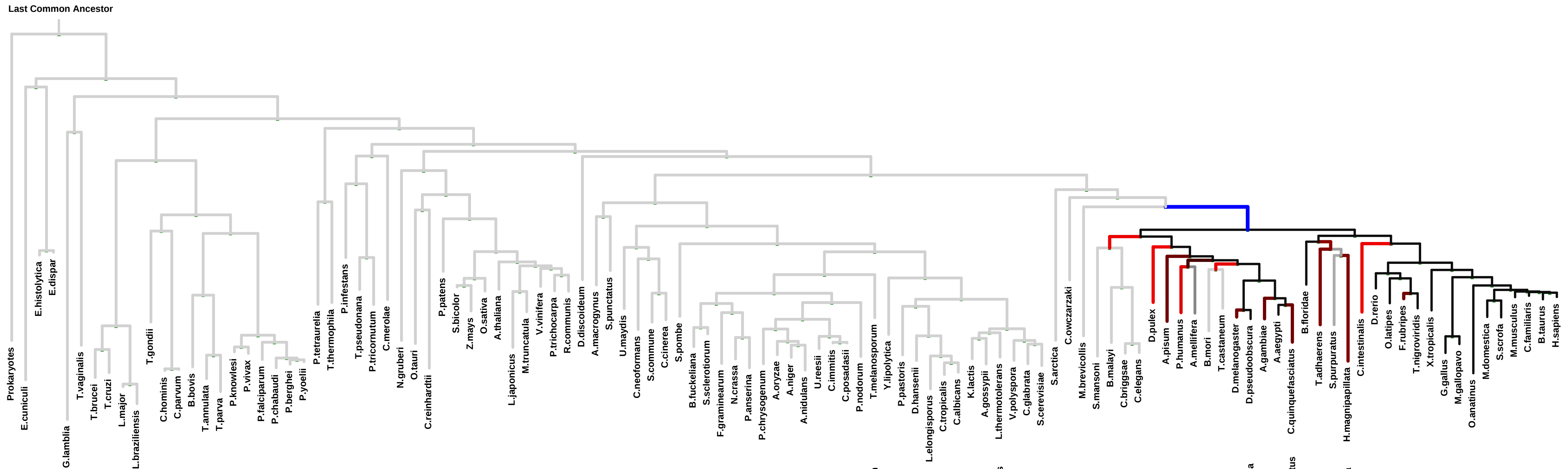
PRESENCE _____

GAIN _____

ABSENCE _____

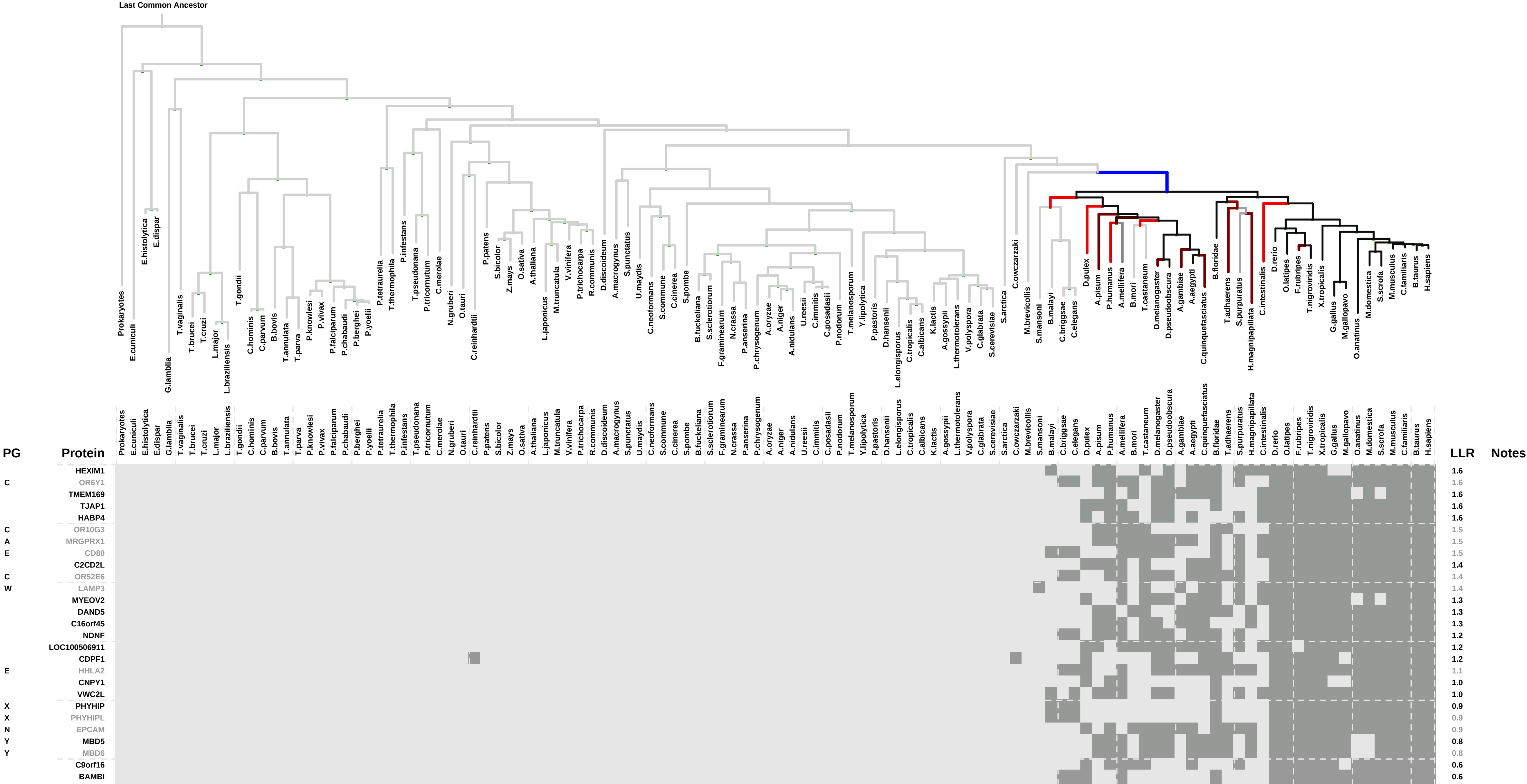
LOSS _____

Log-likelihood Ratio Scale

[illegible]

ECM 3, Gene set "Oxphos Complex 1", Page 6

Num of ECM Genes: 2. Num of Predicted Genes: 200. ECM Strength: 2.7



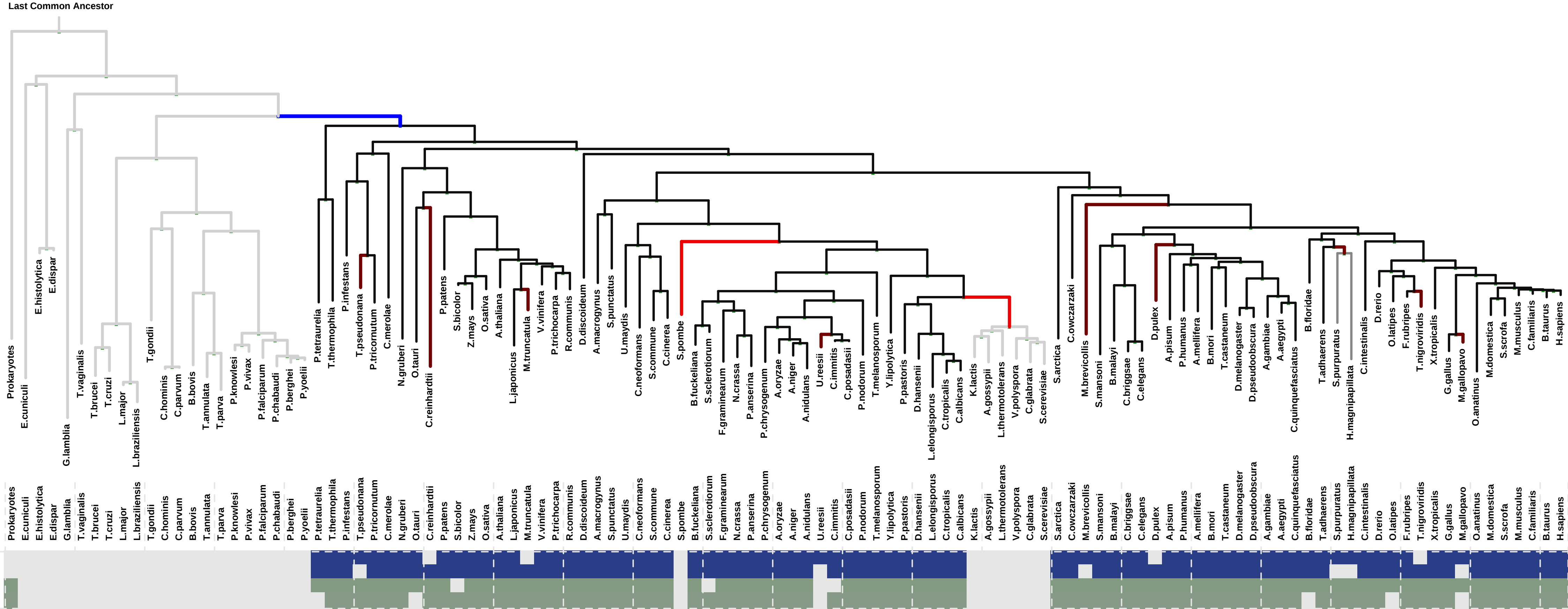
ECM 4, Gene set "Oxphos Complex 1", Page 1

Num of ECM Genes: 2. Num of Predicted Genes: 2. ECM Strength: 0.0



PG

Protein



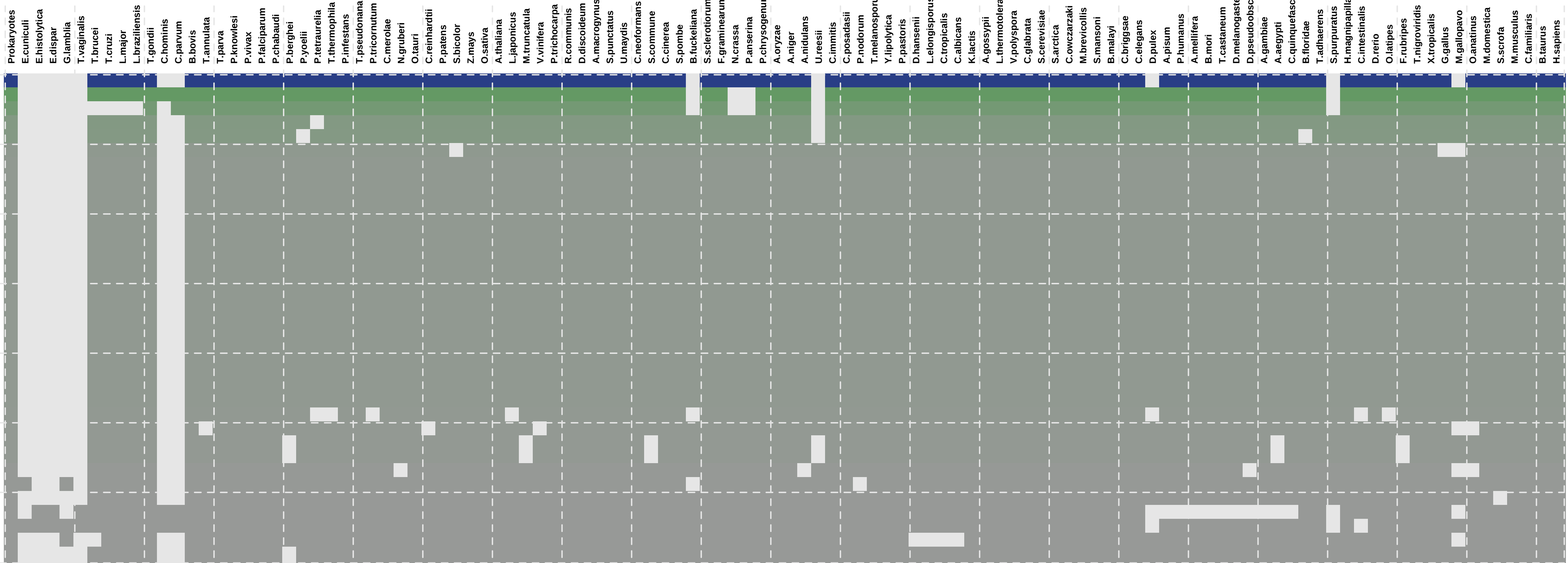
LLR Notes

1: Oxphos Complex 1

Num of ECM Genes: 1. Num of Predicted Genes: 38

Log-likelihood Ratio Scale

0 10 20 30 40 50 60

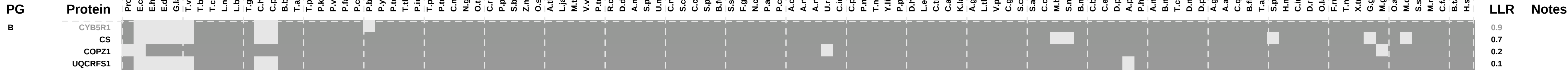


1

1: Oxphos Complex 1

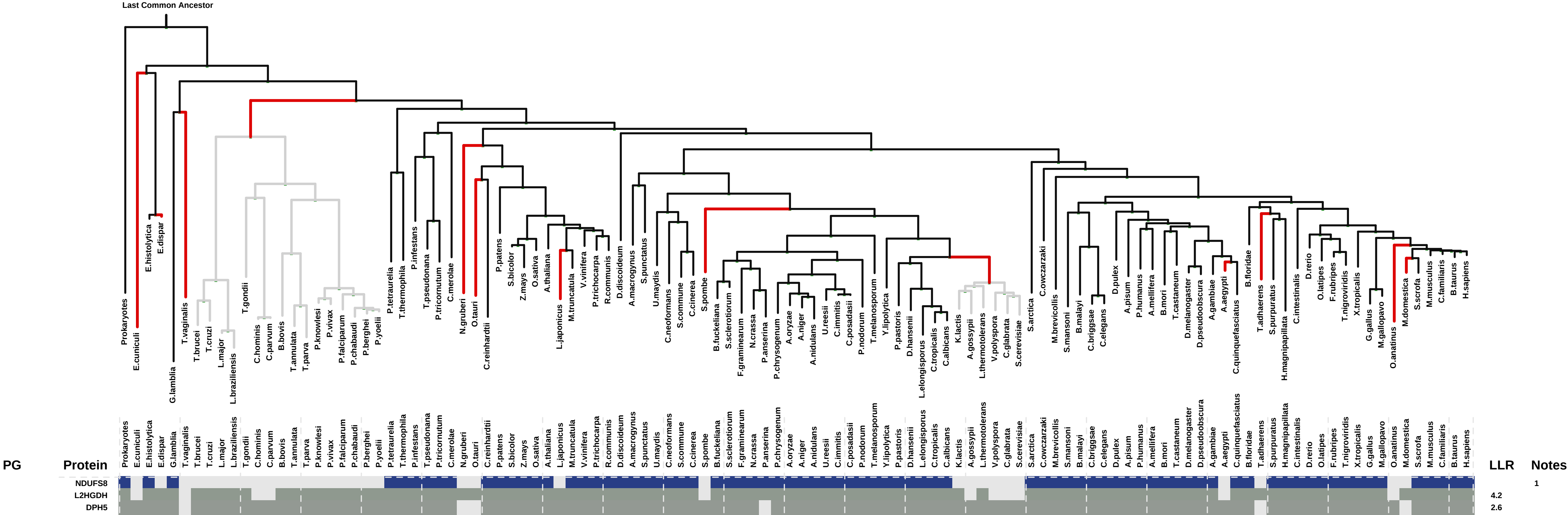
Num of ECM Genes: 1. Num of Predicted Genes: 38

Log-likelihood Ratio Scale



ECM 6, Gene set "Oxphos Complex 1", Page 1

Num of ECM Genes: 1. Num of Predicted Genes: 2



1: Oxphos Complex 1

ECM 7, Gene set "Oxphos Complex 1", Page 1

Num of ECM Genes: 1. Num of Predicted Genes: 3



ECM 8, Gene set "Oxphos Complex 1", Page 1

Num of ECM Genes: 1. Num of Predicted Genes: 0



PG

Protein

NDUFB7	Prokaryotes	E.cuniculi	E.histolytica	E.dispar	G.lamblia	T.vaginalis	T.brucei	T.cruzi	L.major	L.braziliensis	T.gondii	C.hominis	C.parvum	B.bovis	T.annulata	T.parva	P.knowlesi	P.vivax	P.falciiparum	P.chabaudi	P.berghei	P.yoelii	P.tetraurelia	T.thermophila	P.infestans	T.pseudonana	P.tricornutum	C.merolae	N.gruberi	O.auri	C.reinhardtii	P.patens	S.bicolor	Z.mays	O.sativa	A.italiana	L.japonicus	M.truncatula	V.vinifera	P.trichocarpa	R.communis	D.discoideum	A.macrogynus	S.punctatus	U.maydis	C.neofornans	S.commune	C.cinerea	S.pombe	B.fuckeliana	S.sclerotiorum	F.graminearum	N.crassa	P.anserina	P.chrysogenum	A.oryzae	A.niger	A.nidulans	U.reesii	C.immitis	C.posadasii	P.nodorum	T.melanosporum	Y.lipolytica	P.pastoris	D.hansenii	L.longisporus	C.tropicalis	C.albicans	K.lactis	A.gossypii	L.thermotolerans	V.polyspora	C.glabrata	S.cerevisiae	S.sacchara	C.owczarzaki	M.brevicollis	S.mansoni	B.malayi	C.briggsae	C.elegans	D.pulex	A.pisum	P.humanus	A.mellifera	B.mori	T.castaneum	D.melanogaster	D.pseudobscura	A.gambiae	A.aegypti	C.quinquefasciatus	B.floridae	T.adhaerens	S.purpuratus	H.magnipapillata	C.intestinalis	D.riero	O.laipes	F.rubripes	T.nigroviridis	X.tropicalis	G.gallus	M.gallapavo	O.anatinus	M.domestica	S.scrofa	M.musculus	C.familiaris	B.taurus	H.sapiens
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1: Oxphos Complex 1

LLR

Notes

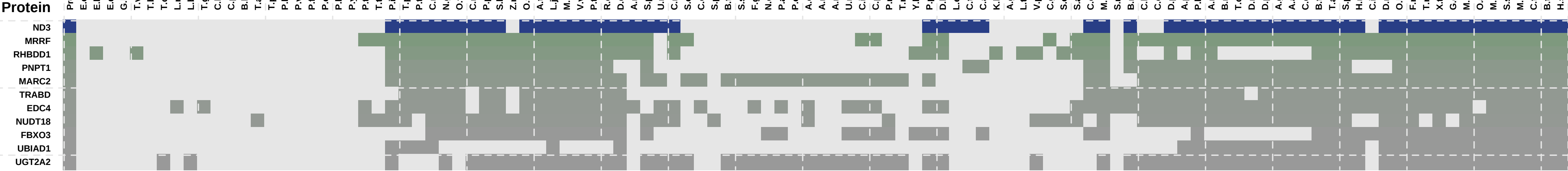
1

ECM 9, Gene set "Oxphos Complex 1", Page 1

Num of ECM Genes: 1. Num of Predicted Genes: 10



PG



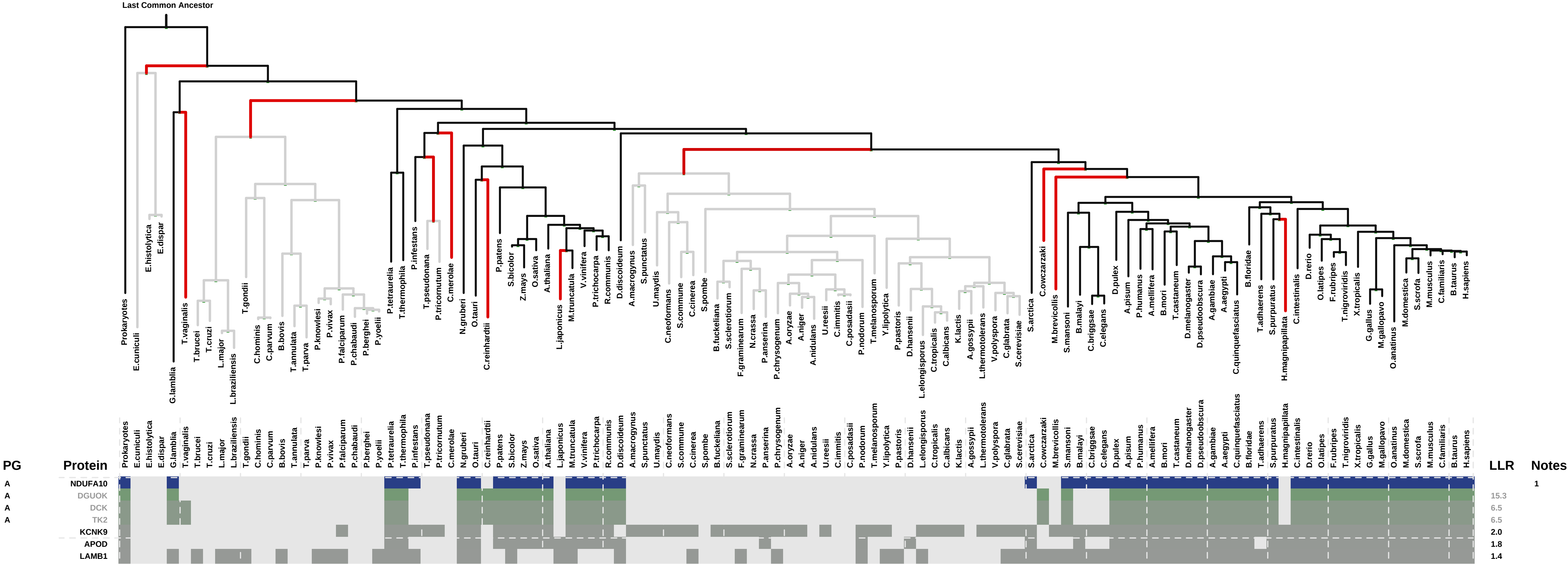
LLR

Notes

1: Oxphos Complex 1

ECM 10, Gene set "Oxphos Complex 1", Page 1

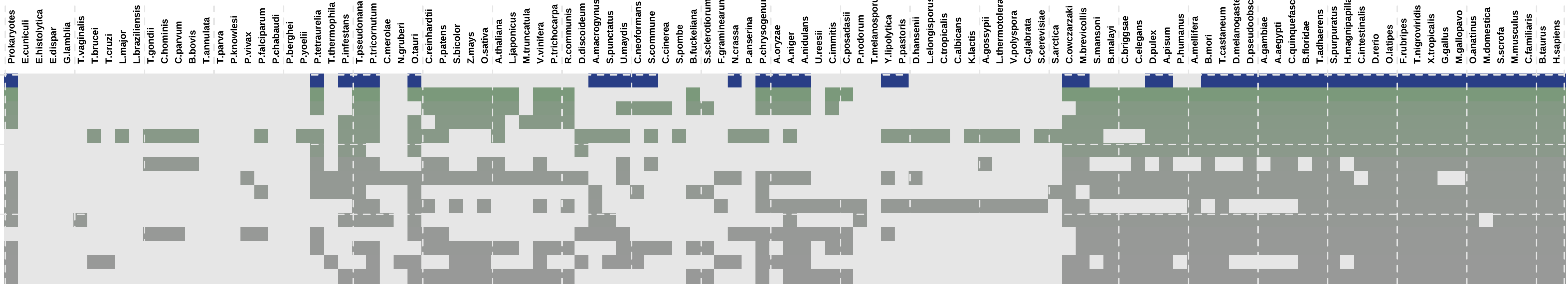
Num of ECM Genes: 1. Num of Predicted Genes: 6



1: Oxphos Complex 1

Num of ECM Genes: 1. Num of Predicted Genes: 14

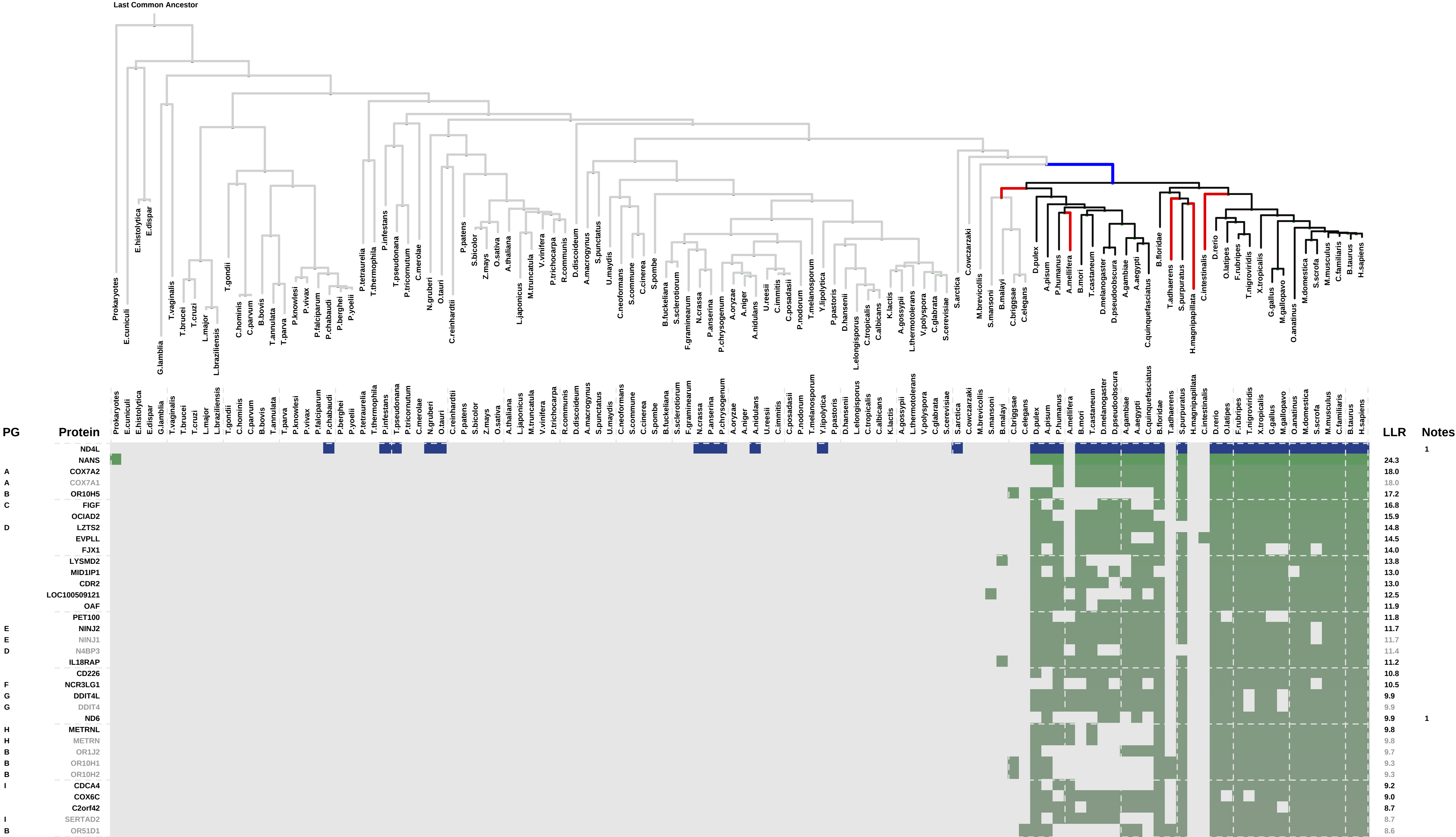
Log-likelihood Ratio Scale



LLR	Notes
1	

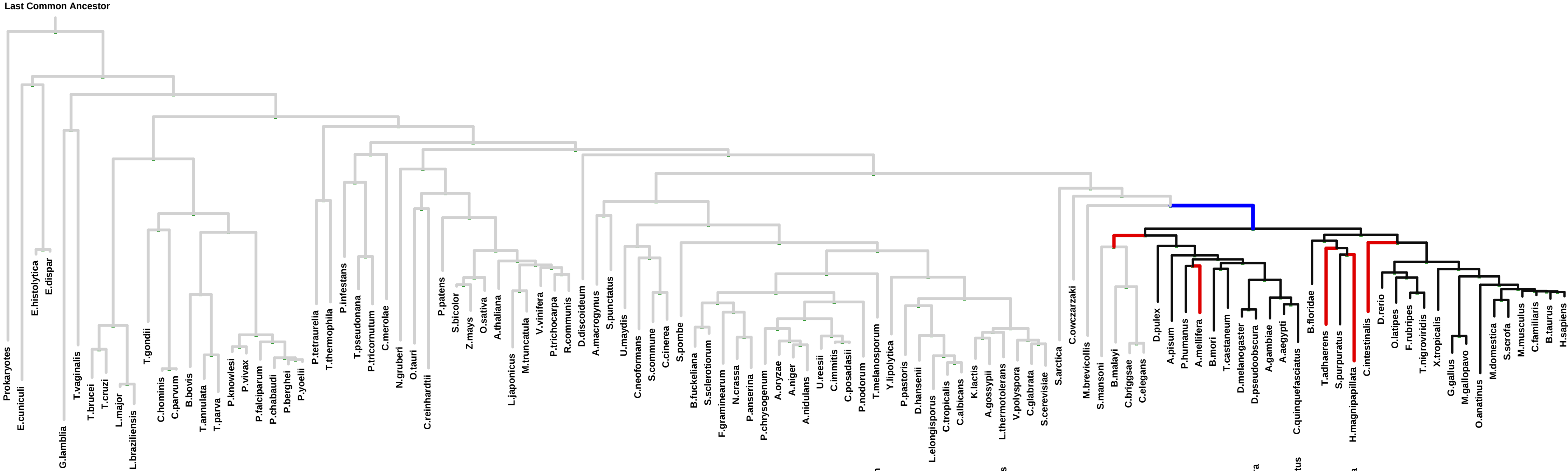
ECM 12, Gene set "Oxphos Complex 1", Page 1

Num of ECM Genes: 1. Num of Predicted Genes: 199



ECM 12, Gene set "Oxphos Complex 1", Page 2

Num of ECM Genes: 1. Num of Predicted Genes: 199

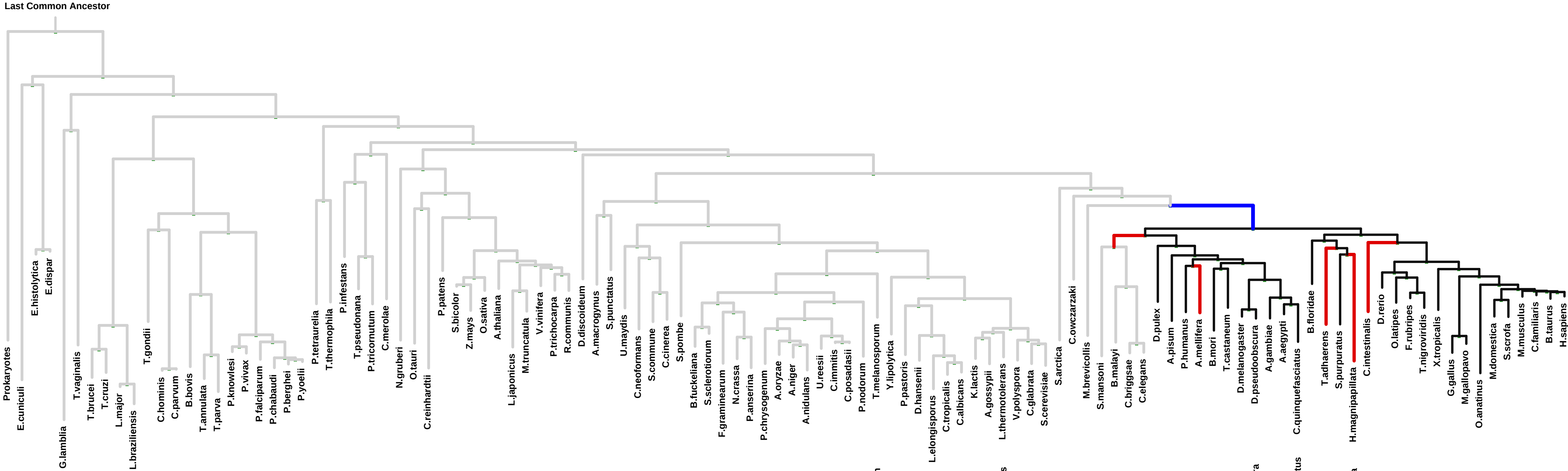


PG	Protein	LLR	Notes
J	FCGR3B	8.6	
	SDC3	8.3	
	TMEM14B	8.0	
	PGLYRP4	7.9	
	ZNF185	7.7	
B	TSSC4	7.3	
	OR5H2	7.2	
	OR6K6	7.2	
	OR2W3	7.1	
	VSTM2L	7.1	
F	TMEM123	6.8	
	ICOSLG	6.8	
	TUSC2	6.8	
	OR6B2	6.8	
	OR6B3	6.8	
B	MED9	6.7	
	CRB3	6.7	
	GFRAL	6.7	
	CYR61	6.6	
	BTN3A2	6.4	
B	GPR146	6.2	
	OR11H12	6.2	
	COX16	6.2	
	C2CD2L	6.2	
	OR10J5	6.1	
B	TSHZ1	5.9	
	FANCA	5.9	
	NDUFB1	5.9	
	ID3	5.7	
	TNFSF13B	5.6	
L	LAPTM4A	5.6	
	BVES	5.5	
	TEX28	5.5	
	POPOC2	5.5	
	POPOC3	5.5	

1: Oxphos Complex 1

ECM 12, Gene set "Oxphos Complex 1", Page 3

Num of ECM Genes: 1. Num of Predicted Genes: 199

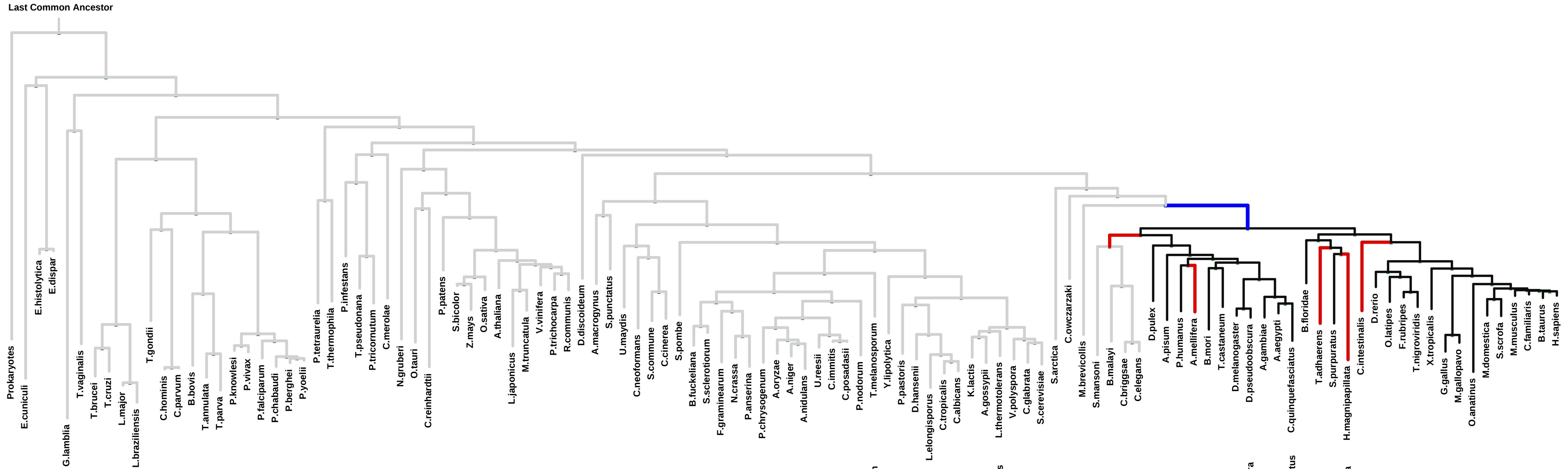


PG	Protein	LLR	Notes
	GPR141	5.5	
	SOST	5.4	
	NRBF2	5.2	
	SMDT1	5.2	
	GPR148	5.2	
	C20orf112	5.1	
	AUTS2	5.0	
B	OR51F2	4.9	
B	OR10T2	4.7	
	SMIM4	4.6	
	TMEM177	4.6	
	DFFB	4.6	
O	CIDEA	4.6	
O	CIDEC	4.6	
B	OR1J1	4.5	
B	OR52K2	4.5	
P	LYPD6B	4.4	
P	LYPD6	4.4	
Q	NFAT5	4.4	
	C3orf38	4.4	
B	OR10X1	4.4	
R	TMEM132A	4.1	
R	TMEM132B	4.1	
B	OR10H4	4.1	
	EPCAM	4.0	
	NDUF85	3.9	
M	GPATCH2L	3.9	
L	LAPTM4B	3.8	
	EDA	3.6	
	BAG5	3.5	
O	DFFA	3.4	
S	SCHIP1	3.3	
	CCR10	3.3	
	HERPUD1	3.1	
	FAM195A	2.9	

1: Oxphos Complex 1

ECM 12, Gene set "Oxphos Complex 1", Page 4

Num of ECM Genes: 1. Num of Predicted Genes: 199

[illegible]

Num of ECM Genes: 1. Num of Predicted Genes: 199

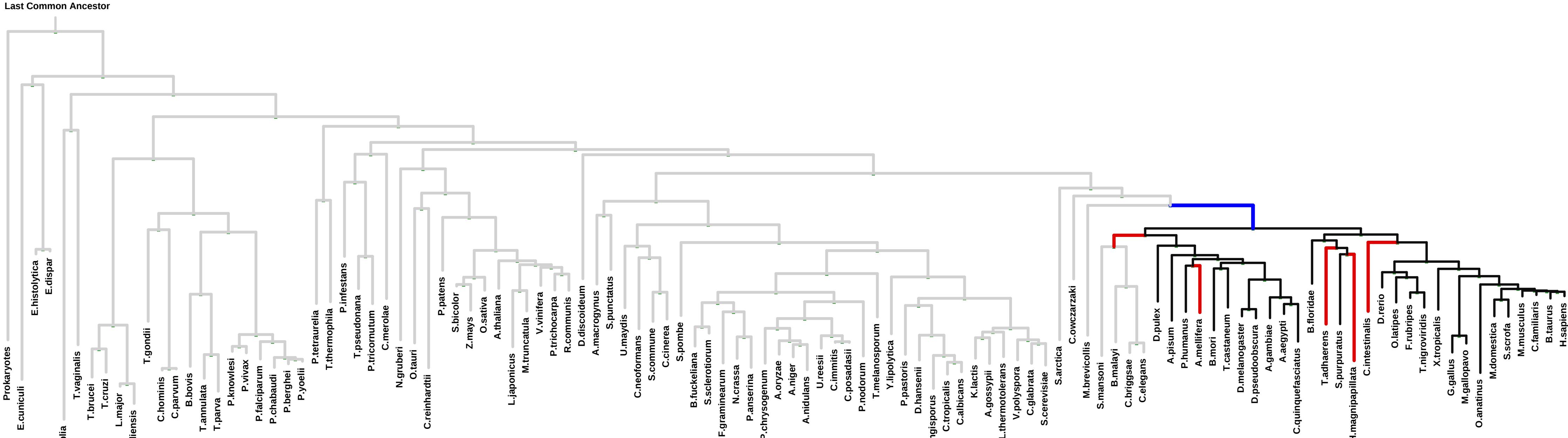
Log-likelihood Ratio Scale



2.1
2.1
2.1
2.1
2.1
2.1
2.0
1.9
1.8
1.8
1.8
1.8
1.7
1.7
1.6
1.6
1.6
1.5
1.5
1.5
1.5
1.5
1.3
1.3
1.3
1.3
1.3
1.1
1.1
1.1
1.1
1.1

ECM 12, Gene set "Oxphos Complex 1", Page 6

Num of ECM Genes: 1. Num of Predicted Genes: 199



PG	Protein		LLR	Notes
b	VGLL3		1.1	
b	VGLL1		1.1	
	DAP		1.0	
B	OR4C46		1.0	
c	LIX1		0.9	
c	LIX1L		0.9	
	FAM43B		0.9	
	MRPL51		0.9	
	HDAC9		0.9	
B	OR4F17		0.9	
	SLC22A31		0.6	
	DAND5		0.6	
	CRTC3		0.6	
	LILRA3		0.6	
	SIRPG		0.4	
	NDUFAF4		0.4	
	TCF23		0.4	
d	LCORL		0.4	
d	LCOR		0.3	
	BLOC1S5		0.2	
Q	NFATC4		0.1	
	PLA2G3		0.1	
	HSF2BP		0.1	
B	OR5T1		0.1	
B	OR12D3		0.1	

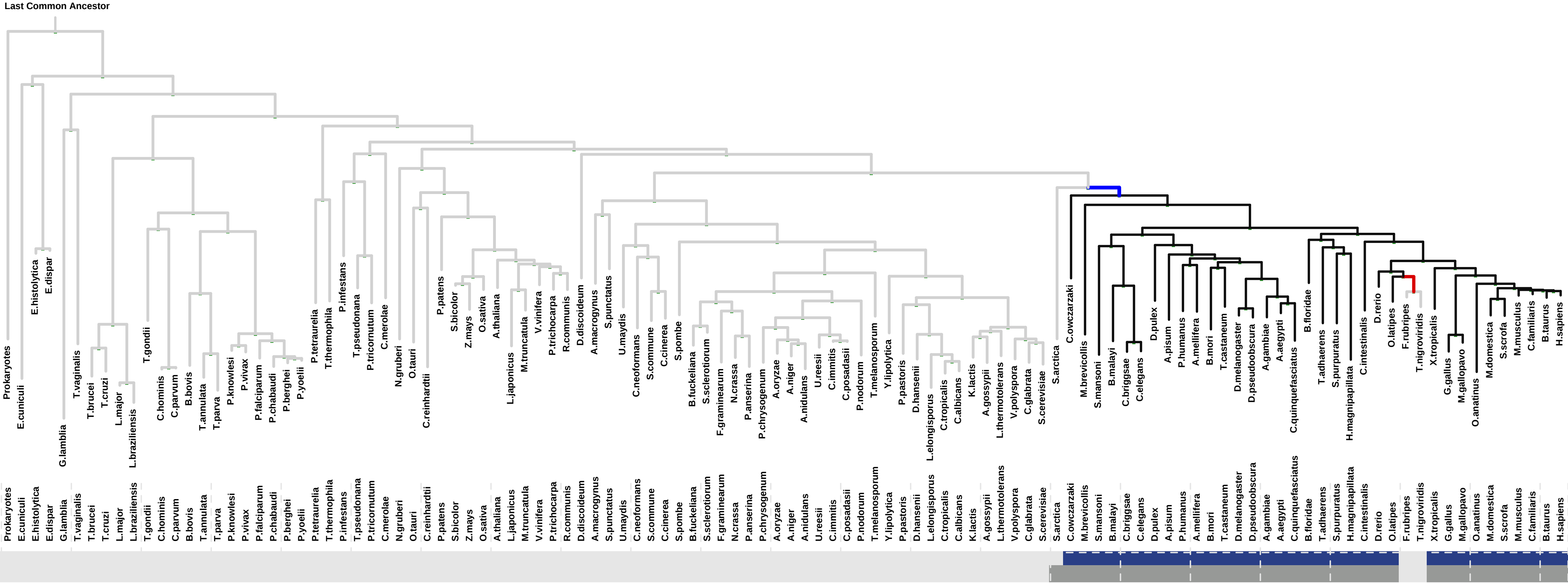
Num of ECM Genes: 1. Num of Predicted Genes: 4

Log-likelihood Ratio Scale

LLR Notes
1

ECM 14, Gene set "Oxphos Complex 1", Page 1

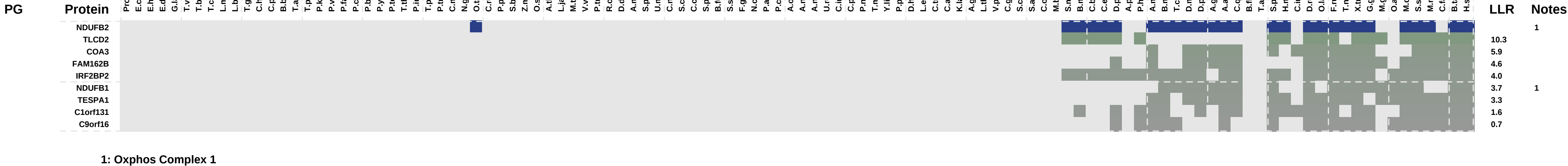
Num of ECM Genes: 1. Num of Predicted Genes: 1



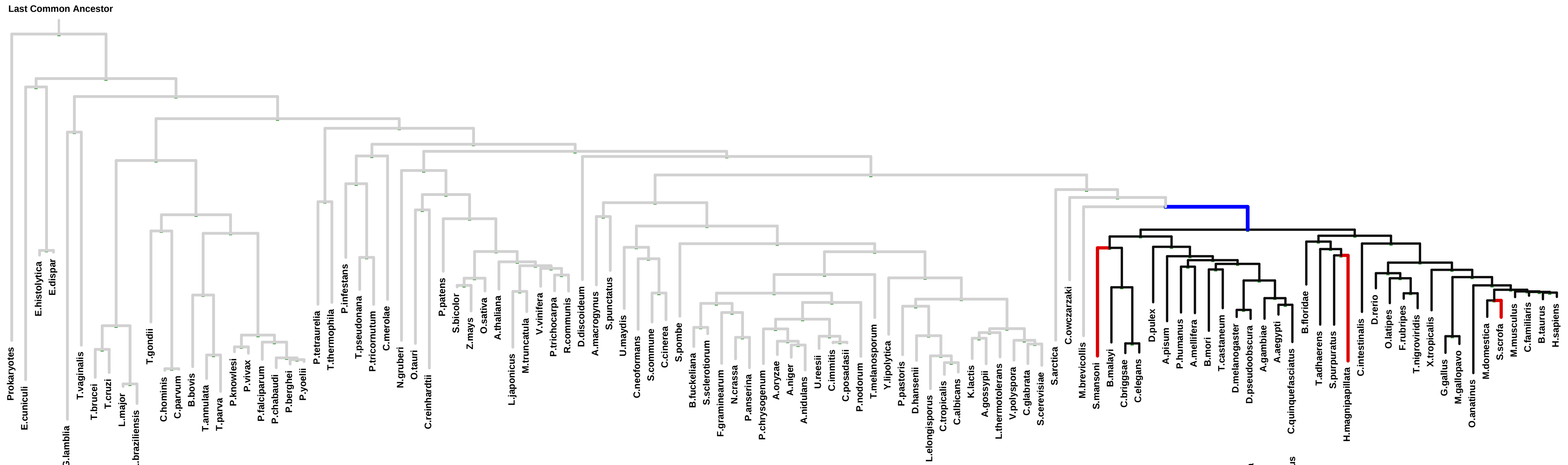
1: Oxphos Complex 1

Num of ECM Genes: 1. Num of Predicted Genes: 8

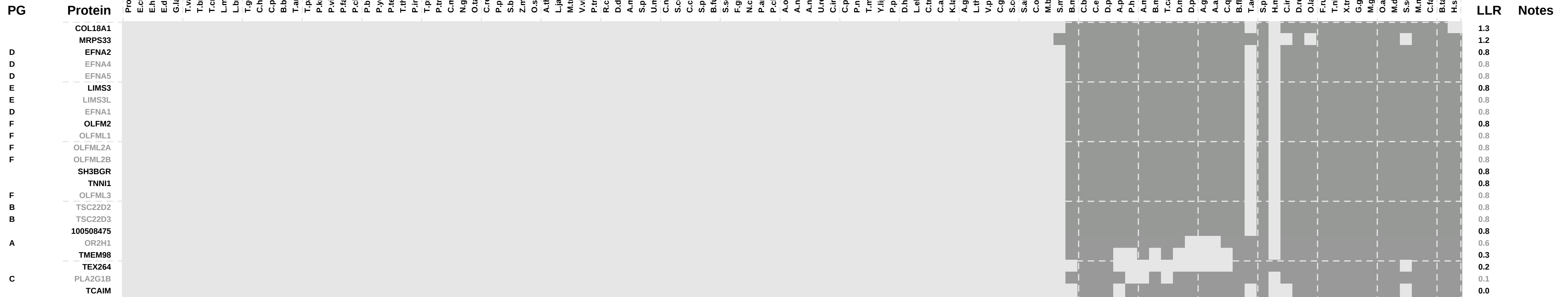
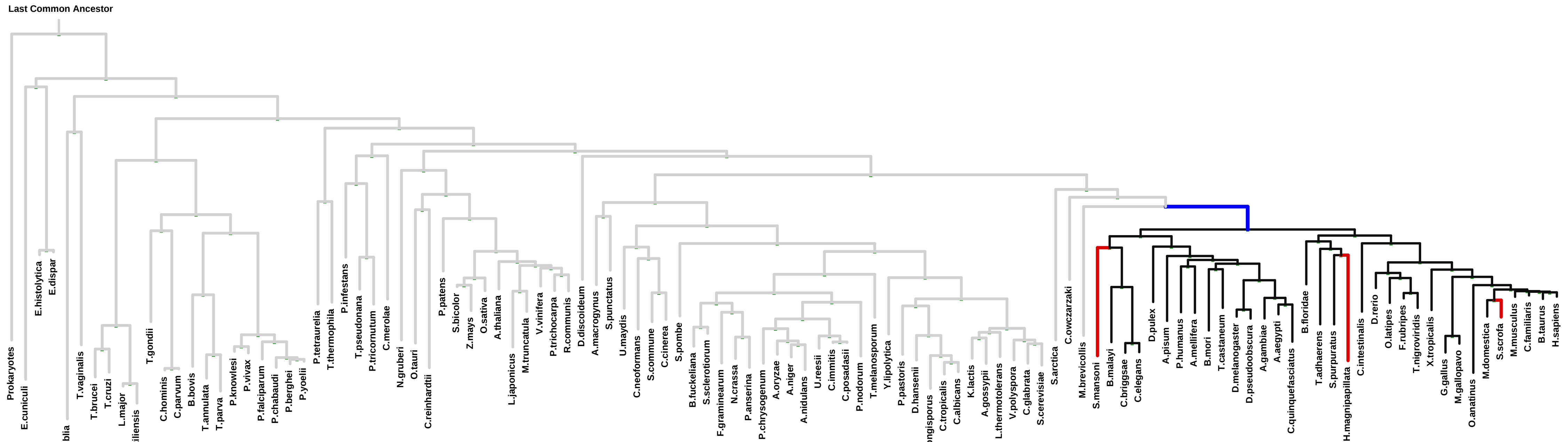
Log-likelihood Ratio Scale



Num of ECM Genes: 1. Num of Predicted Genes: 57

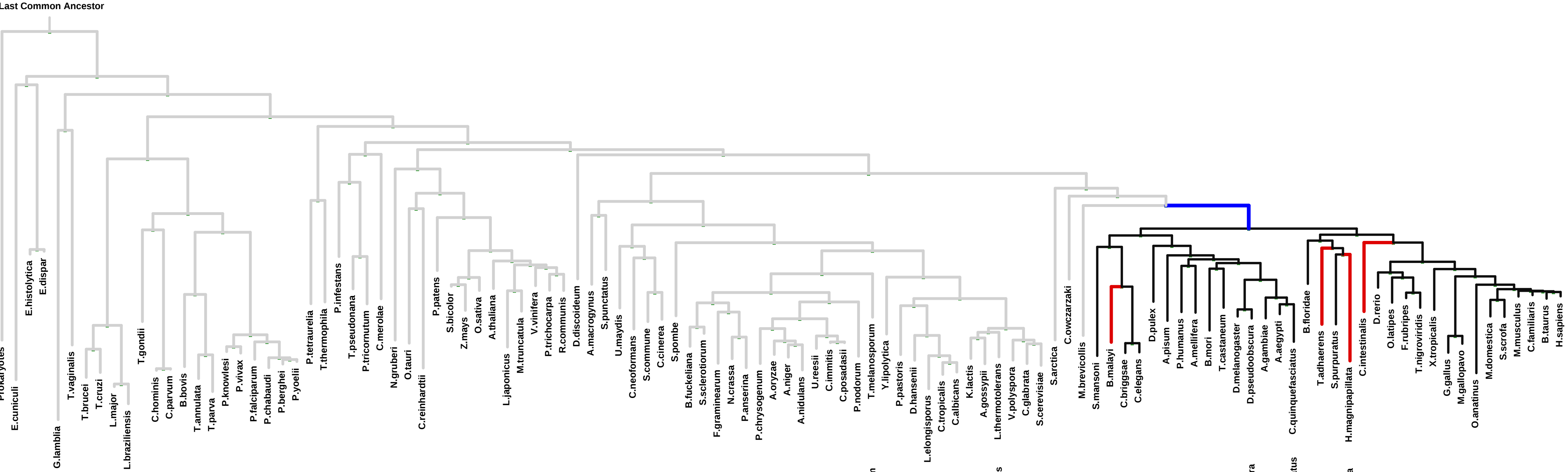


Num of ECM Genes: 1. Num of Predicted Genes: 57



ECM 17, Gene set "Oxphos Complex 1", Page 1

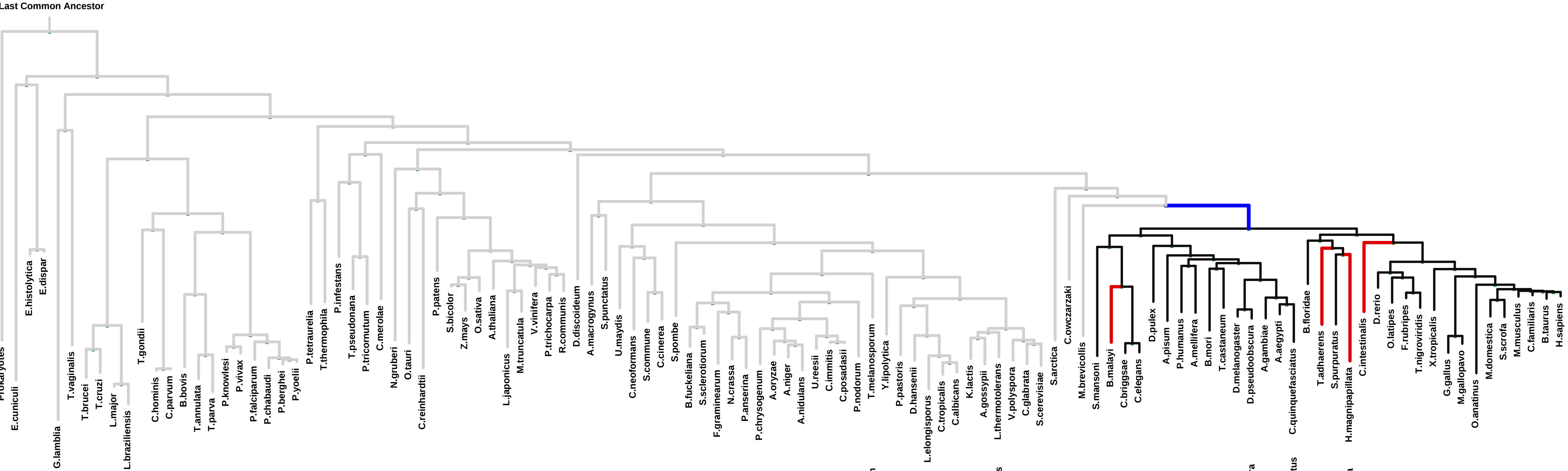
Num of ECM Genes: 1. Num of Predicted Genes: 200



PG	Protein	LLR	Notes
	NDUFB5		
	BAG2	14.1	1
	OR8B3	11.3	
A	OR10H4	11.0	
A	OR52J3	10.5	
A	OR10J3	10.5	
	ZNF185	10.0	
	SDC1	9.7	
	GPR148	9.7	
	OR10H5	9.6	
A	OR56B4	8.8	
B	ITM2C	8.6	
B	ITM2A	8.6	
B	ITM2B	8.6	
A	OR4X2	8.6	
A	OR2L3	8.6	
A	OR10J5	8.4	
	TCAIM	8.2	
A	OR4A16	8.1	
	C20orf112	7.9	
A	OR2G3	7.9	
C	OTOP3	7.8	
	TUSC2	7.2	
A	OR6Y1	7.1	
	NDNF	6.6	
A	OR6F1	6.6	
	PASD1	6.3	
	HECA	6.3	
	CDR2	6.2	
A	OR4N4	6.0	
	ID3	6.0	
	ND6	5.8	1
D	DUOXA1	5.5	
D	DUOXA2	5.5	
	KCNJ13	5.5	

ECM 17, Gene set "Oxphos Complex 1", Page 2

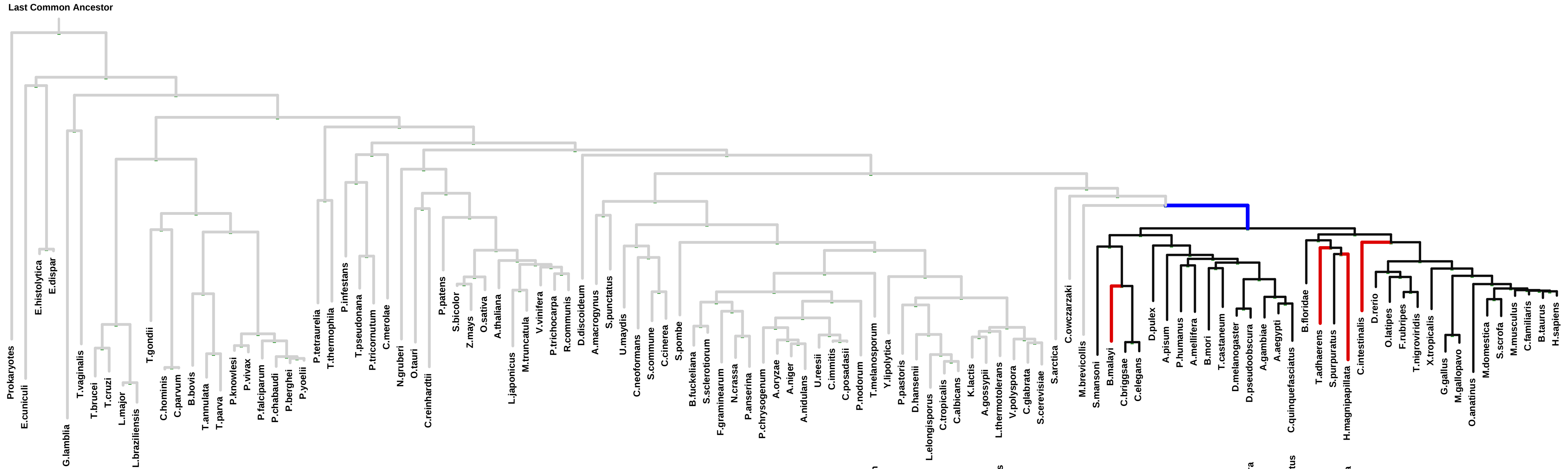
Num of ECM Genes: 1. Num of Predicted Genes: 200



PG	Protein	LLR	Notes
	MRPL51	5.4	
	NANS	5.3	
A	OR4K13	5.2	
A	OR8K1	5.2	
	OAF	5.1	
	C2CD2	5.1	
A	OR5J2	5.0	
E	NINJ2	4.8	
E	NINJ1	4.8	
	IL18RAP	4.7	
F	WFDC2	4.6	
	ICOSLG	4.1	
A	OR10Z1	4.0	
	CD226	3.9	
	TRABD2A	3.9	
	CPLX1	3.9	
	LOC100509121	3.7	
A	OR52N4	3.6	
G	SCHIP1	3.6	
A	OR5L2	3.6	
	DGCR2	3.3	
	FAM43B	3.3	
	TCF23	3.2	
H	DDIT4L	3.1	
H	DDIT4	3.1	
A	OR5T1	3.0	
A	OR13D1	3.0	
I	METRNL	2.9	
I	METRNL	2.9	
	PDGFB	2.9	
	STOX2	2.8	
J	LCOR	2.6	
J	LCORL	2.6	
	OCIAD2	2.4	
K	CDC4A	2.3	

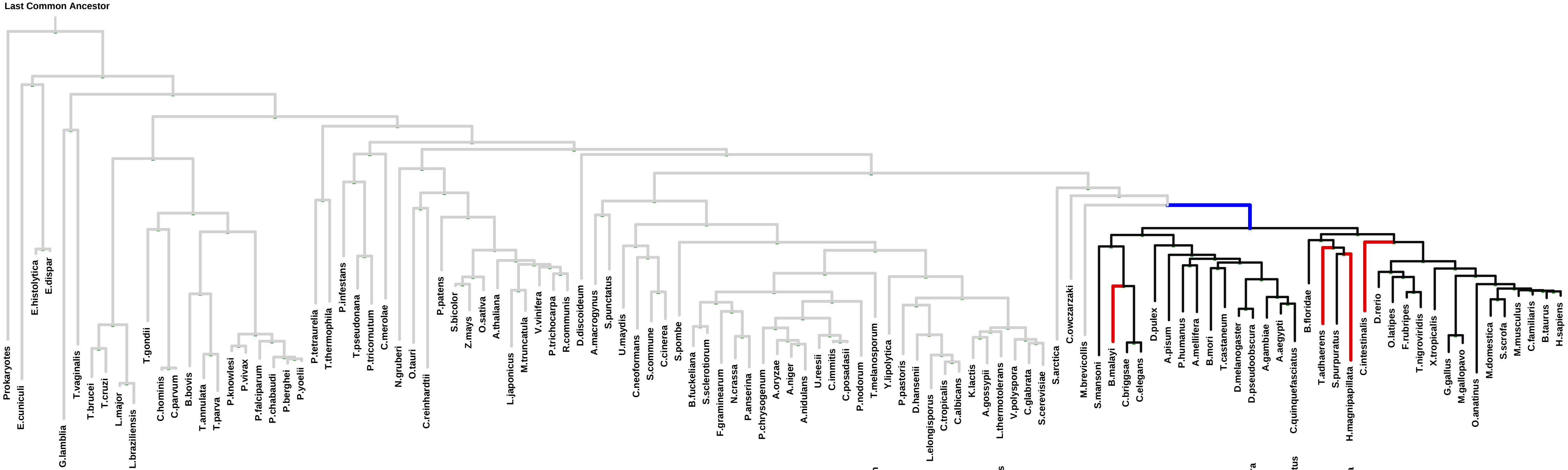
ECM 17, Gene set "Oxphos Complex 1", Page 3

Num of ECM Genes: 1. Num of Predicted Genes: 200

[illegible]

ECM 17, Gene set "Oxphos Complex 1", Page 4

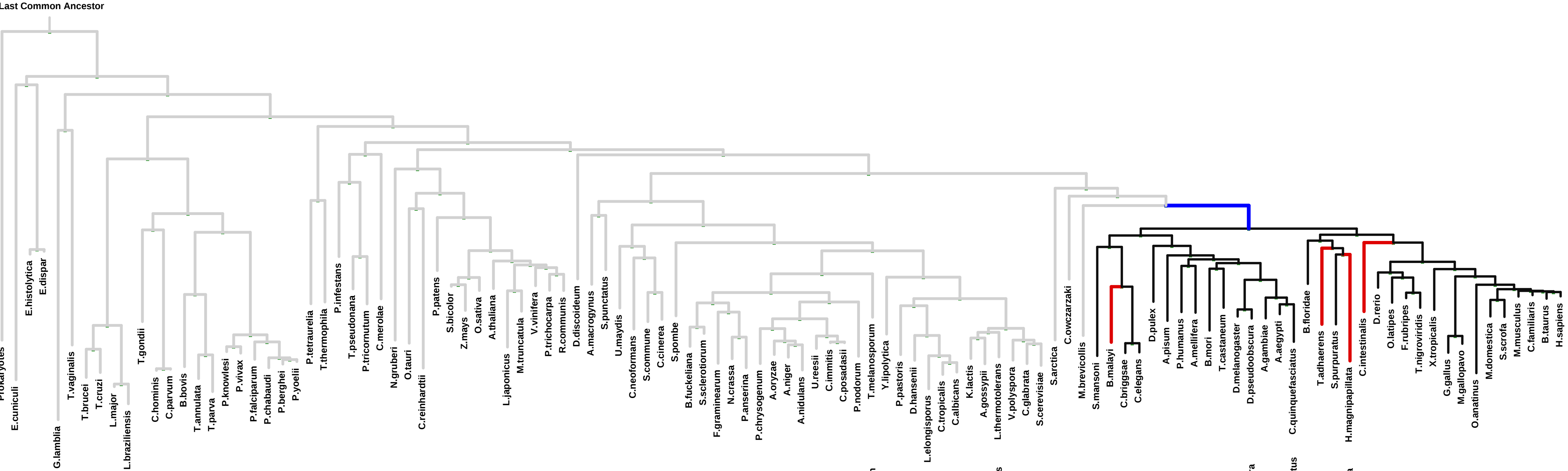
Num of ECM Genes: 1. Num of Predicted Genes: 200



PG	Protein	LLR	Notes
A	OR51T1	1.8	
A	OR51V1	1.8	
A	OR52B2	1.8	
A	OR52E4	1.8	
A	OR52E8	1.8	
A	OR52H1	1.8	
A	OR10A5	1.8	
A	OR52K1	1.8	
A	OR11H4	1.8	
A	OR13A1	1.8	
A	OR5H1	1.8	
A	OR5H14	1.8	
A	OR5H15	1.8	
M	NAV1	1.8	
A	OR5K1	1.8	
A	OR5K2	1.8	
A	OR5K4	1.8	
A	OR13G1	1.8	
A	OR5M8	1.8	
A	OR5P3	1.8	
A	OR5R1	1.8	
A	OR14A16	1.8	
A	OR5V1	1.8	
A	OR6B1	1.8	
A	OR6C1	1.8	
A	OR14J1	1.8	
A	OR6S1	1.8	
A	OR6V1	1.8	
A	OR1A1	1.8	
A	OR7D4	1.8	
A	OR7E24	1.8	
A	OR1C1	1.8	
A	OR8H2	1.8	
A	OR1D5	1.8	
A	OR8U1	1.8	

ECM 17, Gene set "Oxphos Complex 1", Page 5

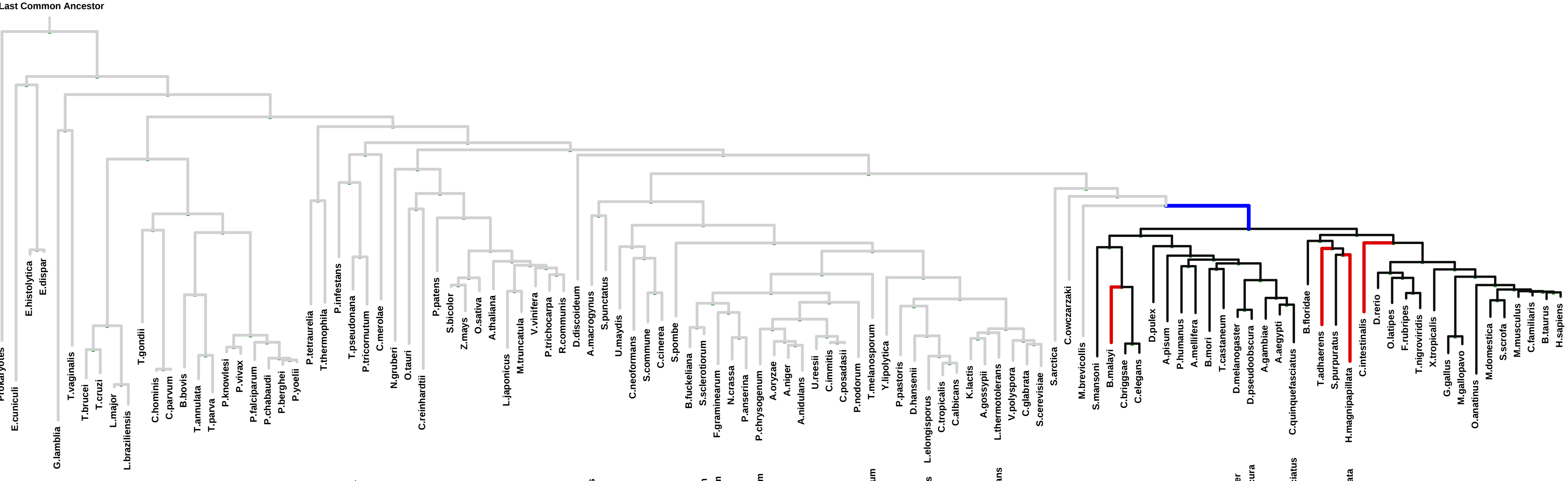
Num of ECM Genes: 1. Num of Predicted Genes: 200



PG	Protein	LLR	Notes
A	OR8U8	1.8	
A	OR9G9	1.8	
A	OR1G1	1.8	
A	OR1N1	1.8	
N	P2RY12	1.8	
N	P2RY13	1.8	
A	OR1S1	1.8	
A	OR1S2	1.8	
A	OR2A25	1.8	
A	OR2AE1	1.8	
A	OR2AK2	1.8	
A	OR2C3	1.8	
A	OR2F1	1.8	
A	OR2F2	1.8	
A	FFAR4	1.8	
A	OR2L2	1.8	
A	OR10J1	1.8	
M	730427	1.8	
A	OR2T8	1.8	
K	SERTAD2	1.8	
A	OR10H1	1.8	
A	OR10H2	1.8	
A	OR4F5	1.6	
A	BAMBI	1.6	
G	IQCJ-SCHIP1	1.4	
A	TMEM14B	1.1	
O	OR51D1	1.1	
P	TNNI3	1.0	
P	TNNT2	1.0	
Q	CSRNP3	1.0	
R	SATB1	1.0	
R	SATB2	1.0	
Q	DCST2	1.0	
O	CSRNP2	1.0	
O	TNNI2	1.0	

ECM 17, Gene set "Oxphos Complex 1", Page 6

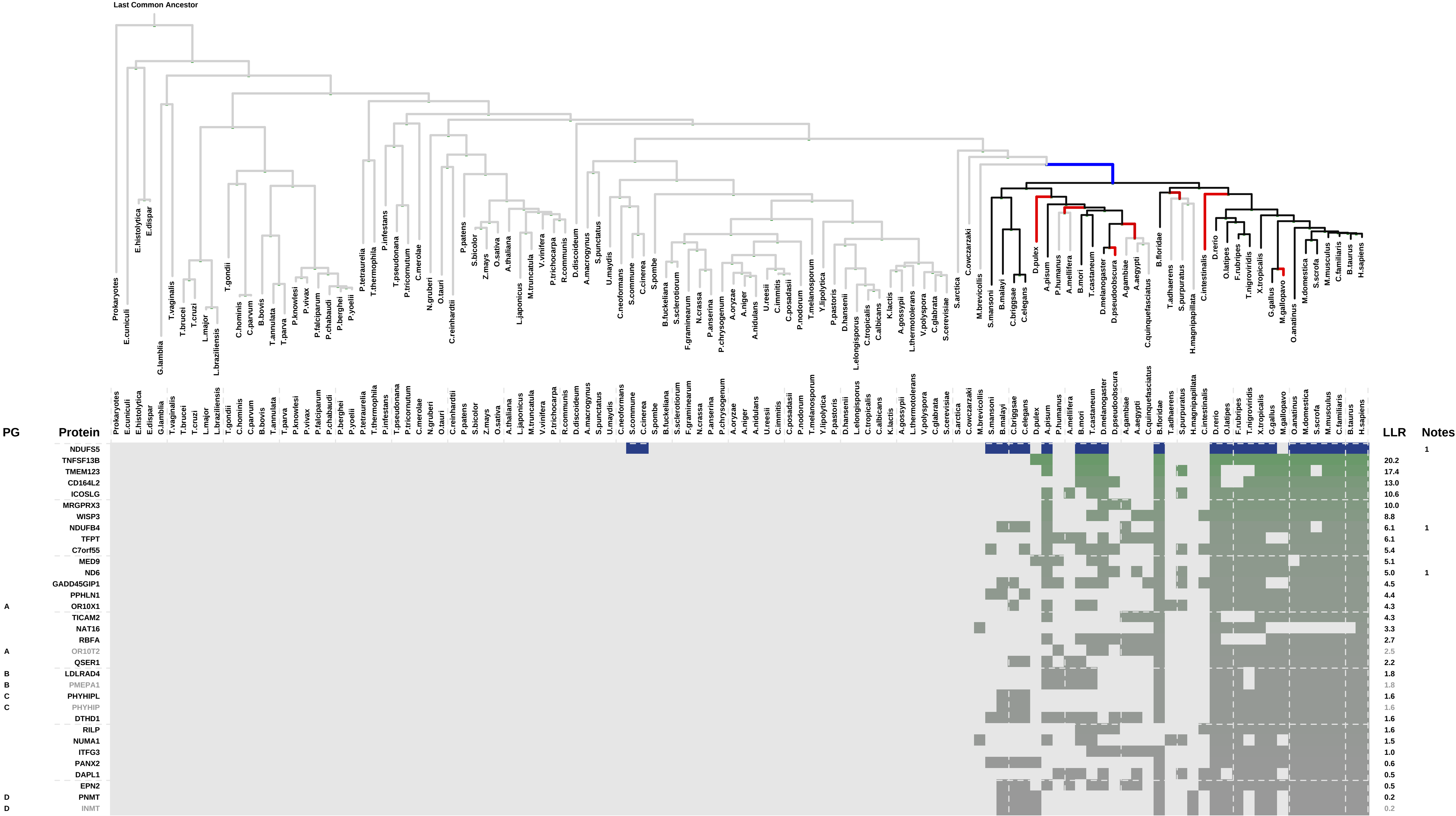
Num of ECM Genes: 1. Num of Predicted Genes: 200



PG	Protein		LLR	Notes
P	PGLYRP4		1.0	
	TNNT3		0.9	
	SLAIN2		0.8	
	FAM198B		0.8	
S	IFITM1		0.8	
	NTF3		0.8	
	NTF4		0.8	
	TMEM91		0.8	
S	TNFSF15		0.8	
	IFITM2		0.8	
	DIABLO		0.8	
	GEMIN4		0.8	
T	BDNF		0.8	
	FAM133B		0.8	
	FAM171A1		0.8	
	FAM171A2		0.8	
U	WHAMM		0.8	
	OR8J3		0.8	
	FAM171B		0.8	
	NGF		0.8	
U	SLPI		0.8	
	ATP5I		0.8	
	OR8D1		0.8	
	SGCB		0.8	
M	652725		0.7	
	VPS37D		0.7	

ECM 18, Gene set "Oxphos Complex 1", Page 1

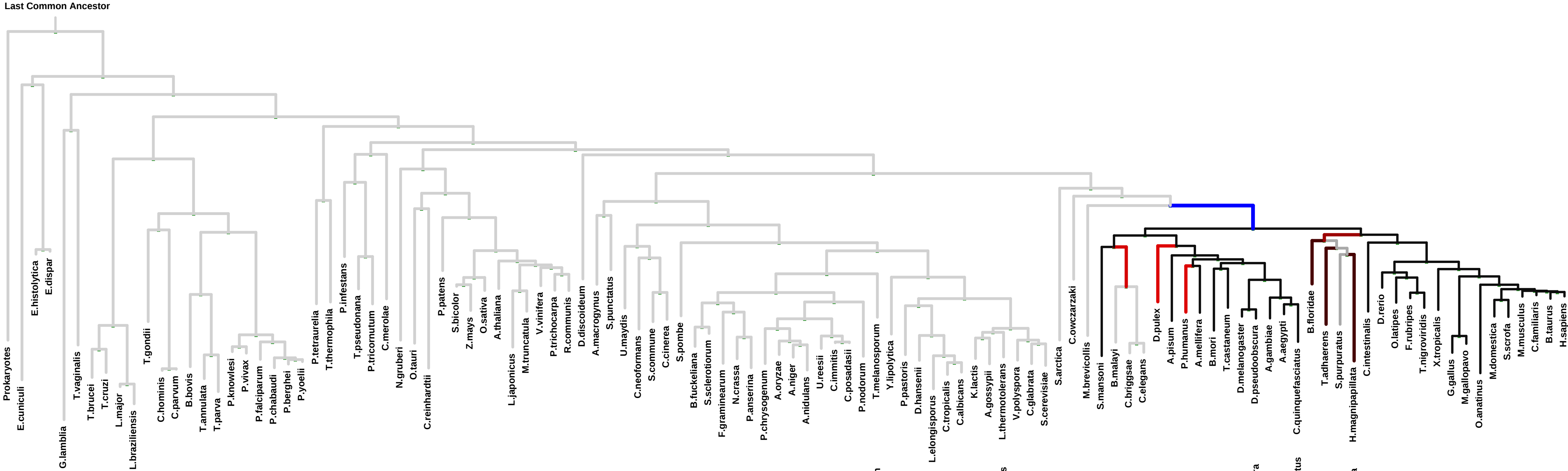
Num of ECM Genes: 1. Num of Predicted Genes: 32



1: Oxphos Complex 1

ECM 19, Gene set "Oxphos Complex 1", Page 1

Num of ECM Genes: 1. Num of Predicted Genes: 68

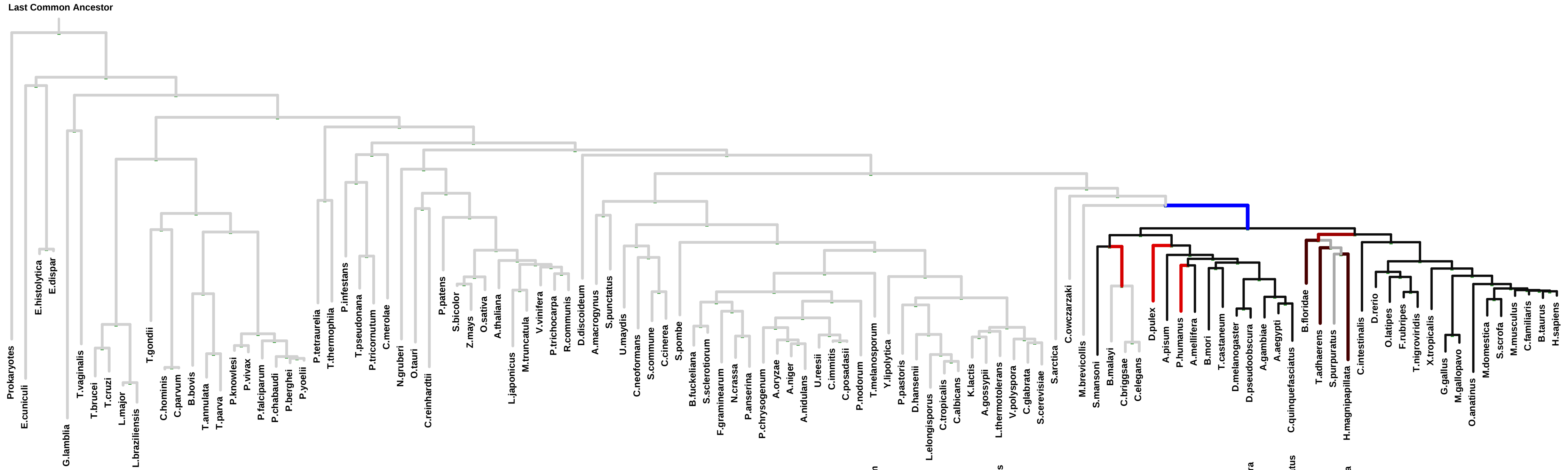


PG	Protein	LLR	Notes
	NDUFB3		
	PLP2		
A	PLP1	14.3	
B	CTAGE1	13.1	
B	CTAGE15	11.5	
C	LOC646644	10.9	
	SPATA18	10.8	
	MFAP3L	10.4	
	MB21D1	8.5	
B	CTAGE4	8.4	
B	CTAGE6	8.4	
B	CTAGE9	8.4	
	LAMP3	7.7	
	C7orf55	7.3	
	SMDT1	6.5	
	TEKT4P2	6.4	
D	OR52R1	6.2	
D	OR5D18	5.4	
D	OR2S2	5.3	
	RILP	5.1	
E	CCDC120	4.0	
	C6orf203	3.9	
F	PDCD1LG2	3.9	
G	WISP2	3.8	
G	CYR61	3.6	
	FAM193B	3.5	
	FGF23	3.4	
	CCDC170	3.2	
	PPP1R15A	3.2	
A	GPM6A	3.2	
	KRT222	3.2	
	C14orf119	3.1	
	MLLT4	3.1	
H	NCKAP5L	3.1	
	CIDEB	3.1	

1: Oxphos Complex 1

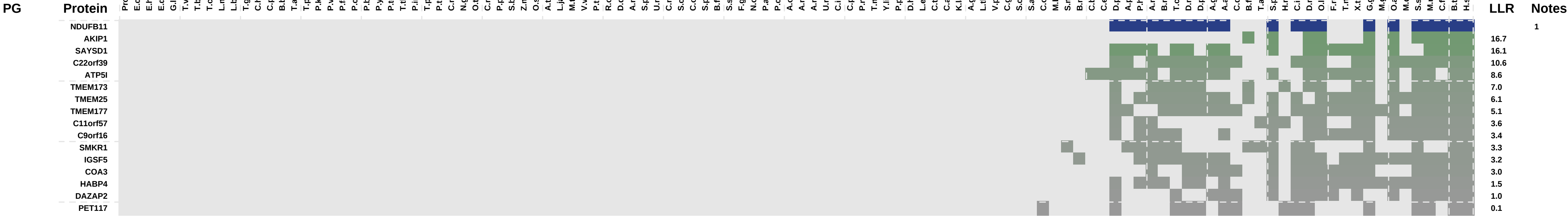
ECM 19, Gene set "Oxphos Complex 1", Page 2

Num of ECM Genes: 1. Num of Predicted Genes: 68

[illegible]

ECM 20, Gene set "Oxphos Complex 1", Page 1

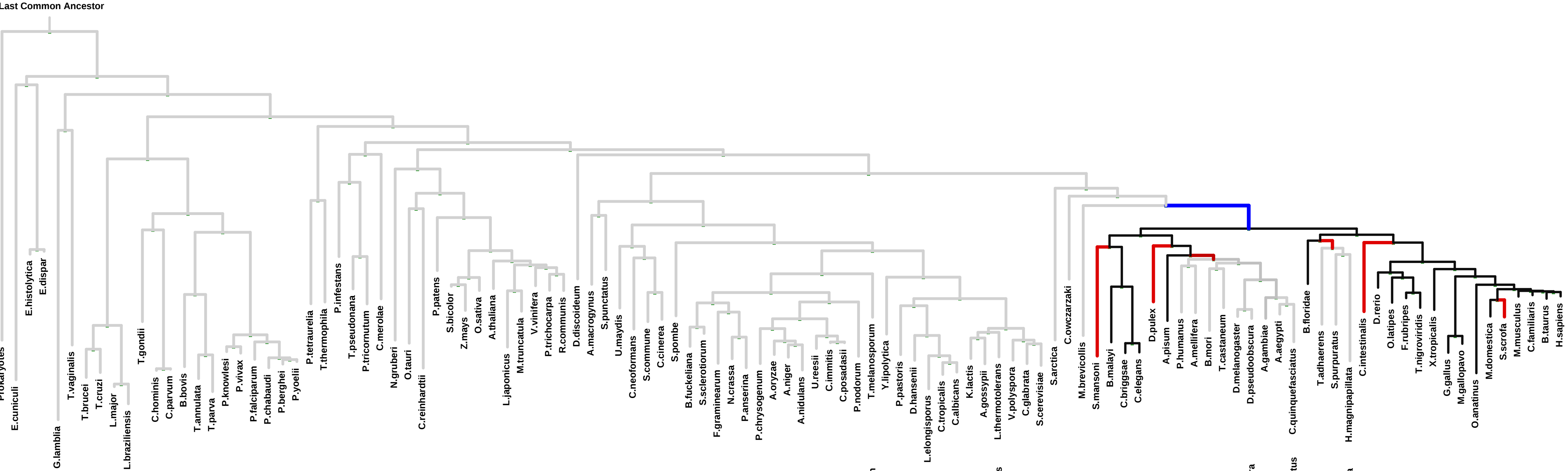
Num of ECM Genes: 1. Num of Predicted Genes: 15



1: Oxphos Complex 1

ECM 21, Gene set "Oxphos Complex 1", Page 1

Num of ECM Genes: 1. Num of Predicted Genes: 89



PG	Protein	LLR	Notes
	NDUFB4	19.1	1
	MRGPRX3	16.3	
	QSER1	14.4	
	HSF2BP	13.3	
	TICAM2	12.7	
	TMEM123	11.8	
A	PHYHIP	11.8	
A	PHYHIP	11.5	
	TMEM60	9.5	
	SURF6	9.5	
	FNDC5	9.3	
B	NKPD1	9.2	
	LILRA3	9.0	
	C3orf33	8.8	
	DTHD1	8.6	
	TMEM200A	8.1	
	GFRA2	7.6	
	EPN2	7.5	
	C9orf172	6.8	1
	ND6	6.8	1
	NDUFA1	6.6	
	SMIM4	6.2	
C	CER1	6.2	
	NCR3LG1	5.7	
	FANCA	5.6	
D	IGSF23	5.6	
D	LCORL	5.6	
D	LCOR	5.6	
E	OR5M9	5.5	
F	LYPD6B	5.0	
F	LYPD6	5.0	
	ITFG3	4.7	
G	LDLRAD4	4.7	
G	PMEPA1	4.7	
	LECT2	4.6	

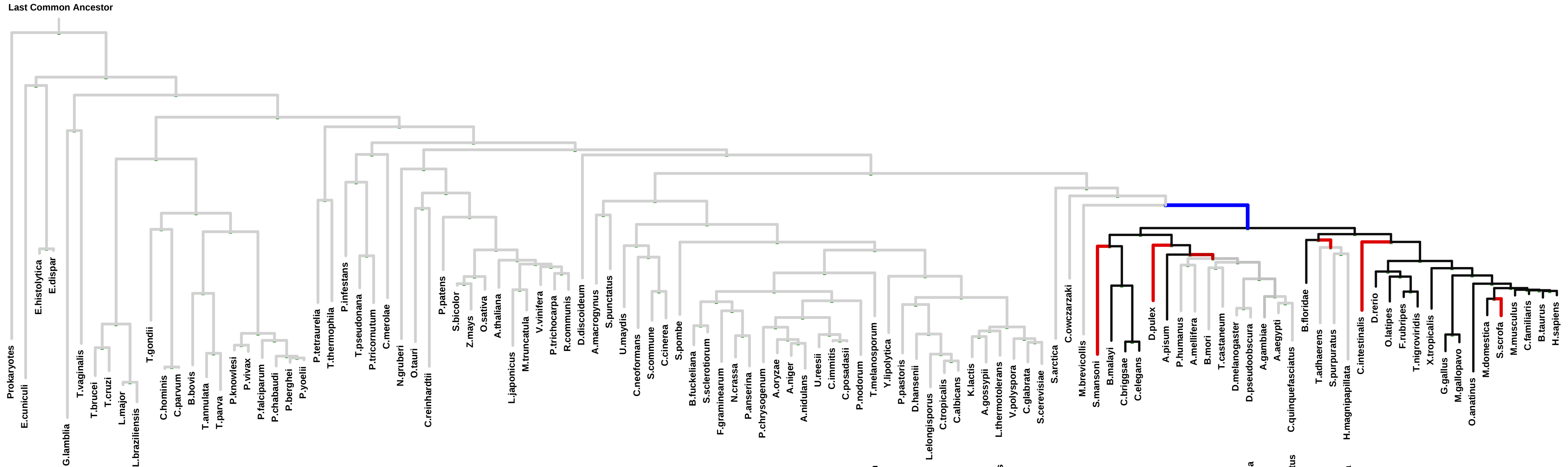
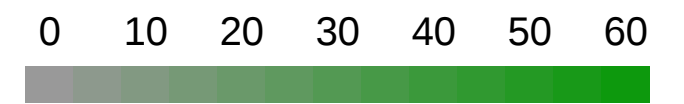
1: Oxphos Complex 1

ECM 21, Gene set "Oxphos Complex 1", Page 2

Num of ECM Genes: 1. Num of Predicted Genes: 89

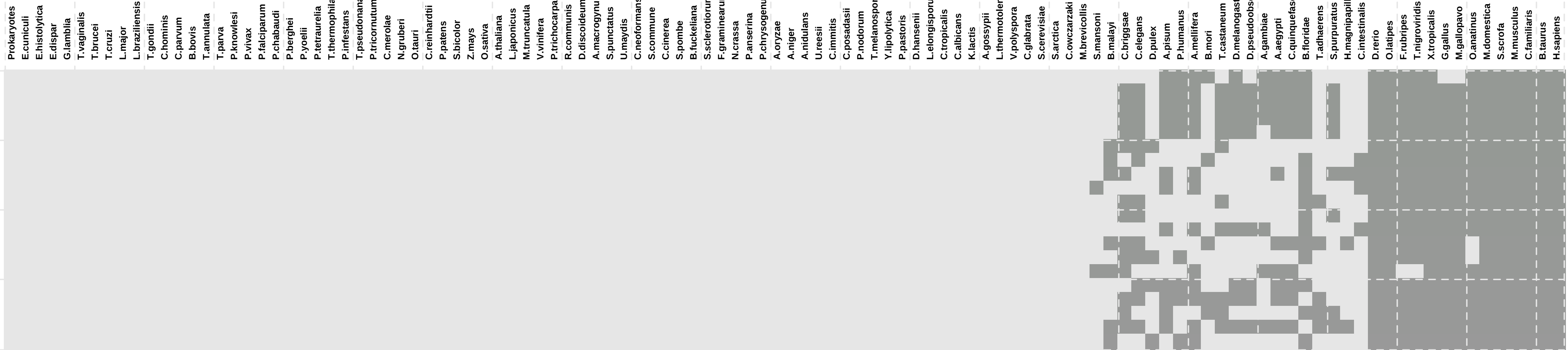
PRESENCE — ABSENCE —
GAIN — LOSS —

Log-likelihood Ratio Scale

[illegible]

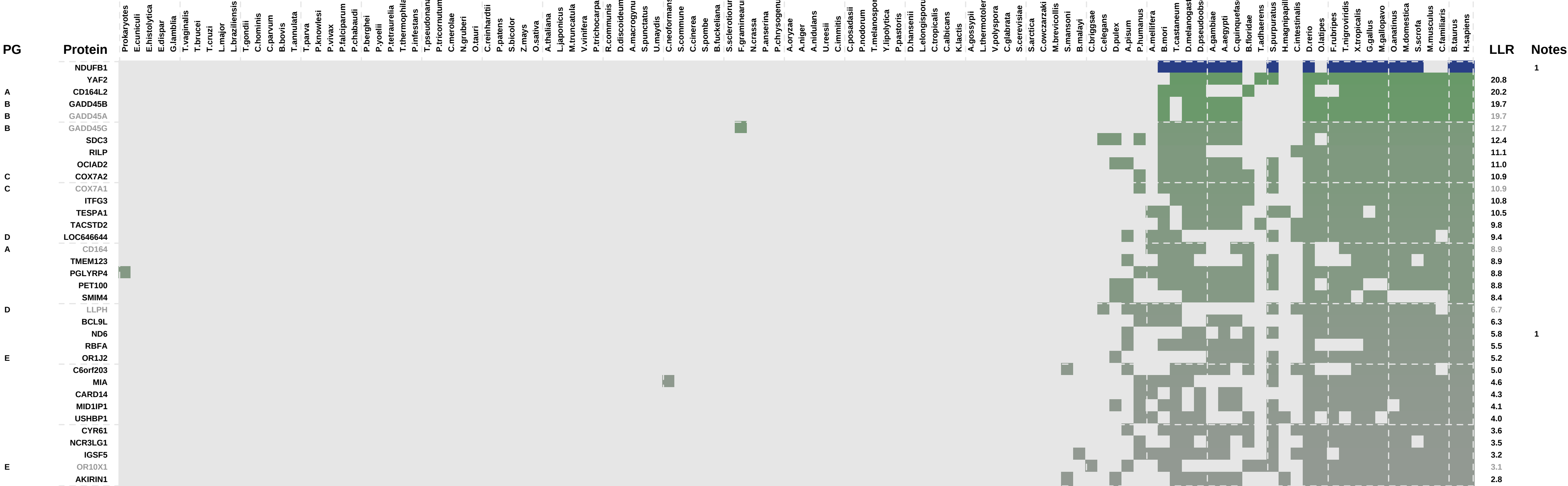
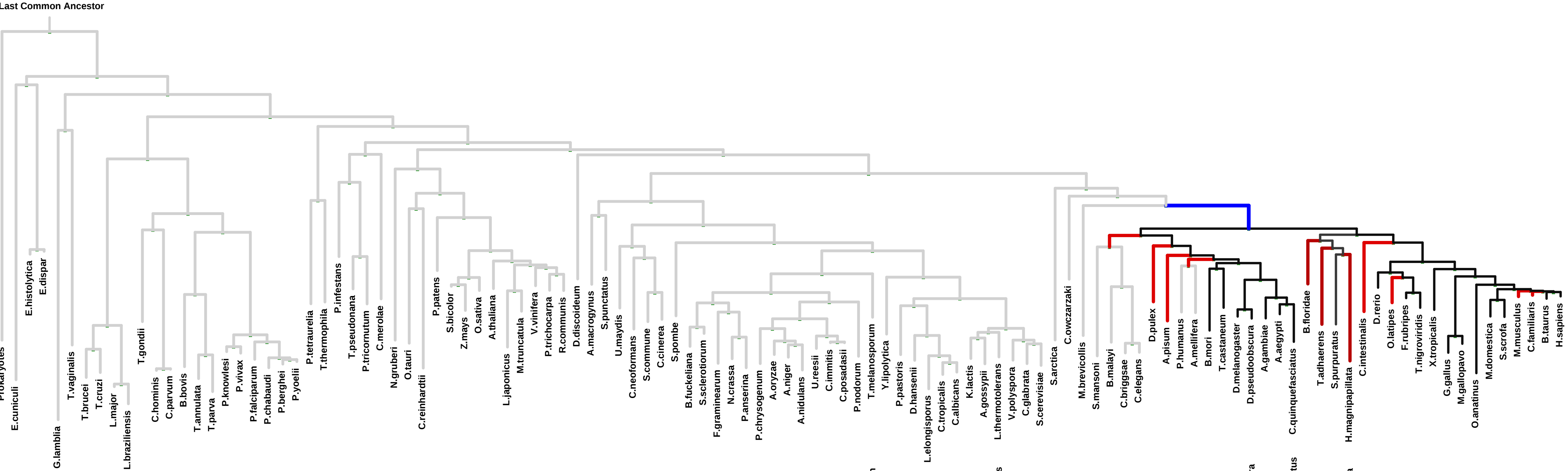
Num of ECM Genes: 1. Num of Predicted Genes: 89

Log-likelihood Ratio Scale



1.8
1.7
1.7
1.7
1.7
1.6
1.5
1.4
1.3
1.1
1.1
1.0
0.9
0.8
0.5
0.5
0.4
0.3
0.0

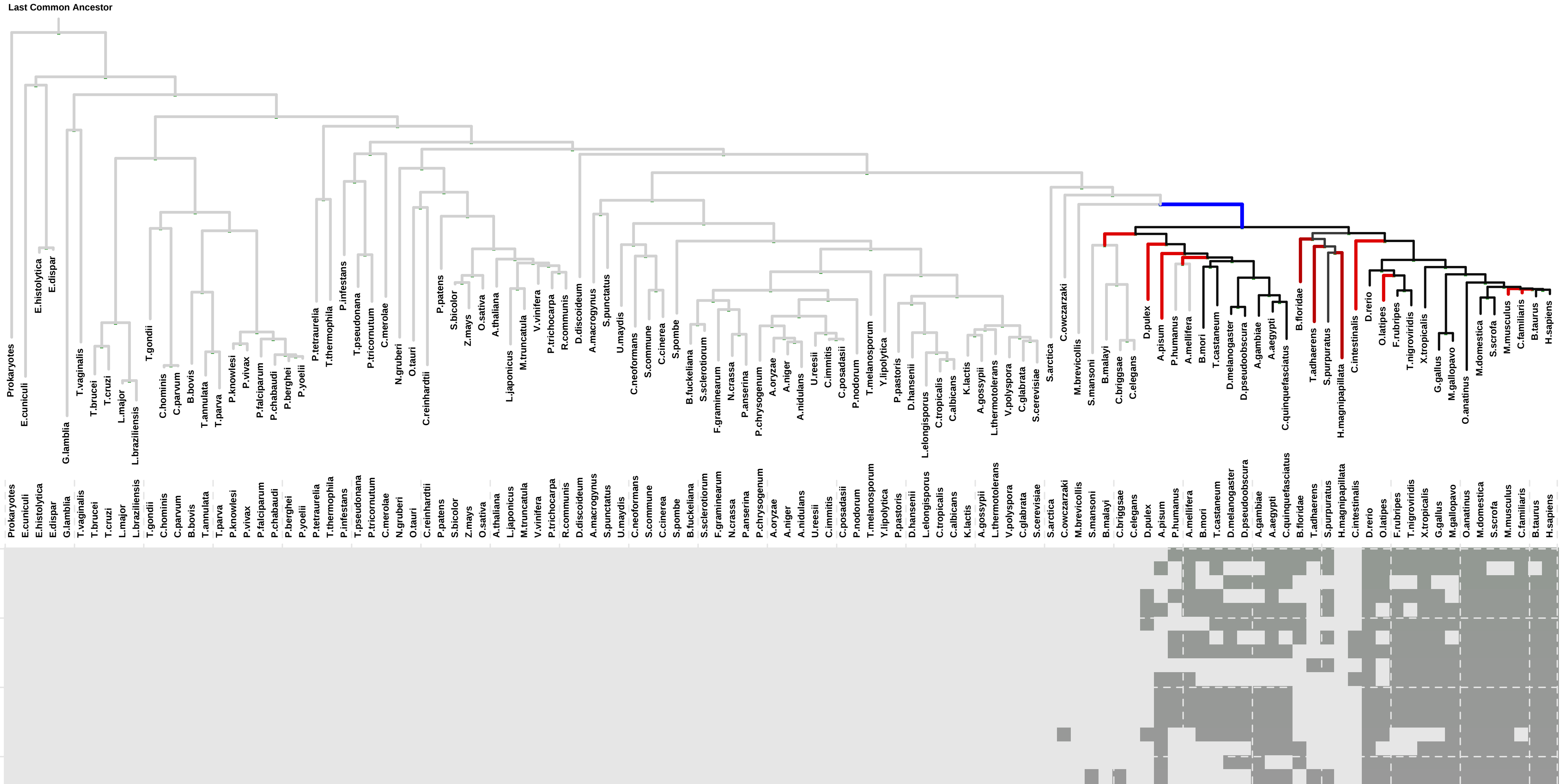
Num of ECM Genes: 1. Num of Predicted Genes: 51



1: Oxphos Complex 1

ECM 22, Gene set "Oxphos Complex 1", Page 2

Num of ECM Genes: 1. Num of Predicted Genes: 51



PG

Protein

Р
Р

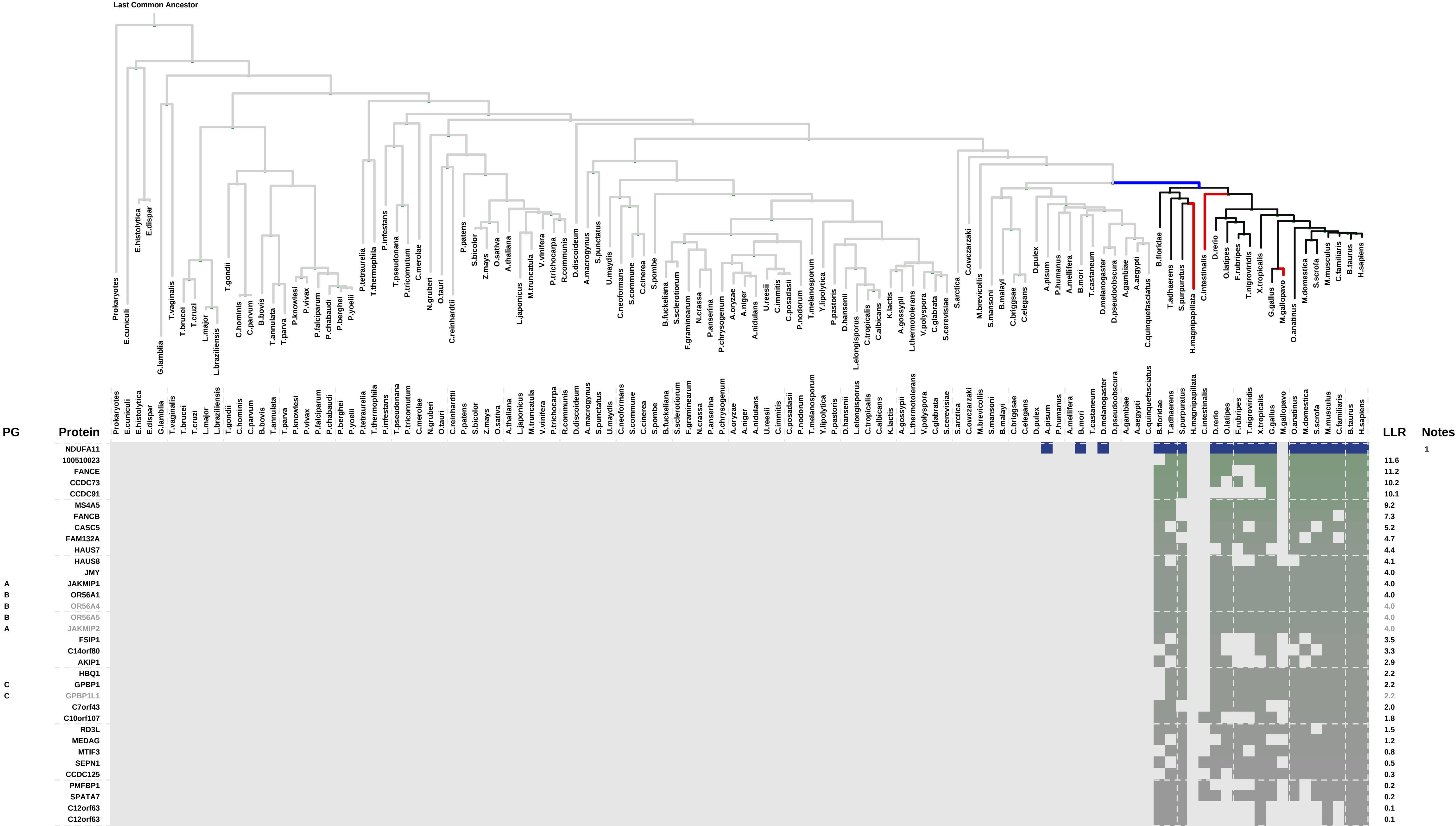
LLR Notes

LLR

2.7
2.7
2.4
1.9
1.6
1.5
1.5
1.1
0.9
0.9
0.9
0.9
0.9
0.5
0.4
0.4
0.4
0.2

ECM 23, Gene set "Oxphos Complex 1", Page 1

Num of ECM Genes: 1. Num of Predicted Genes: 33

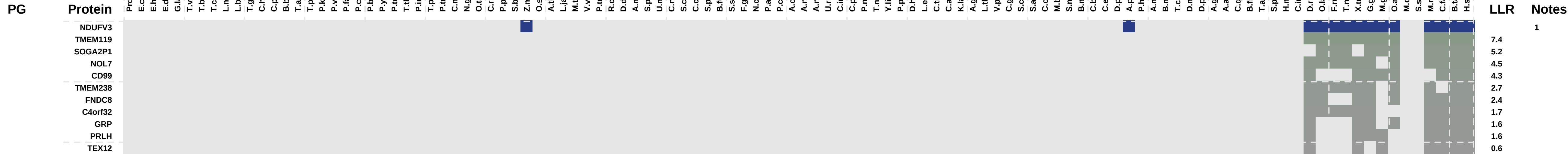


1: Oxphos Complex 1

Notes
1

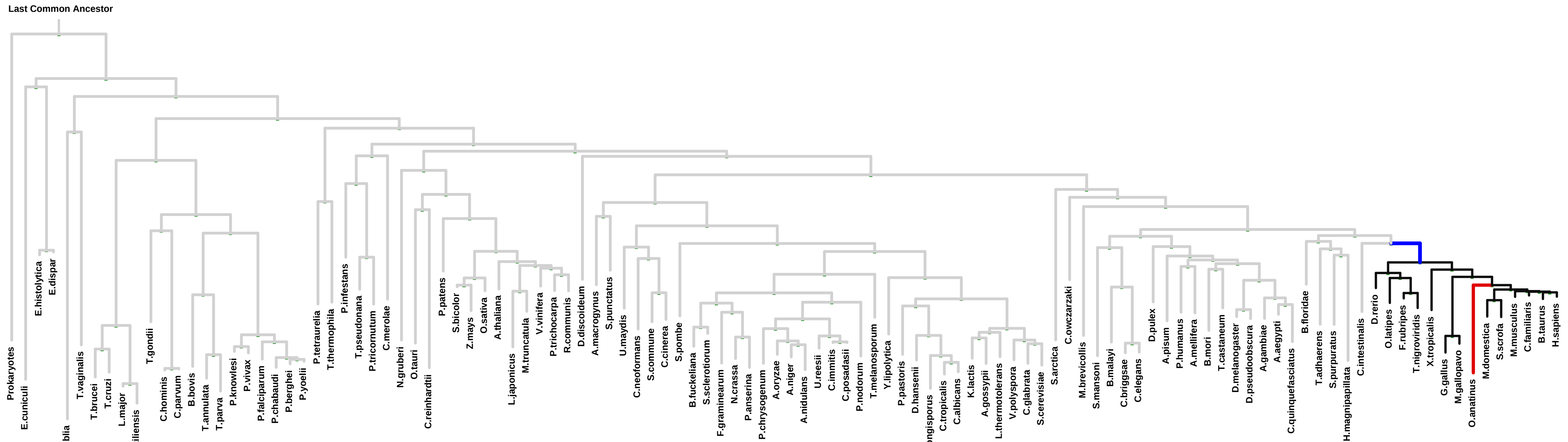
Num of ECM Genes: 1. Num of Predicted Genes: 10

Log-likelihood Ratio Scale



1

Num of ECM Genes: 1. Num of Predicted Genes: 52



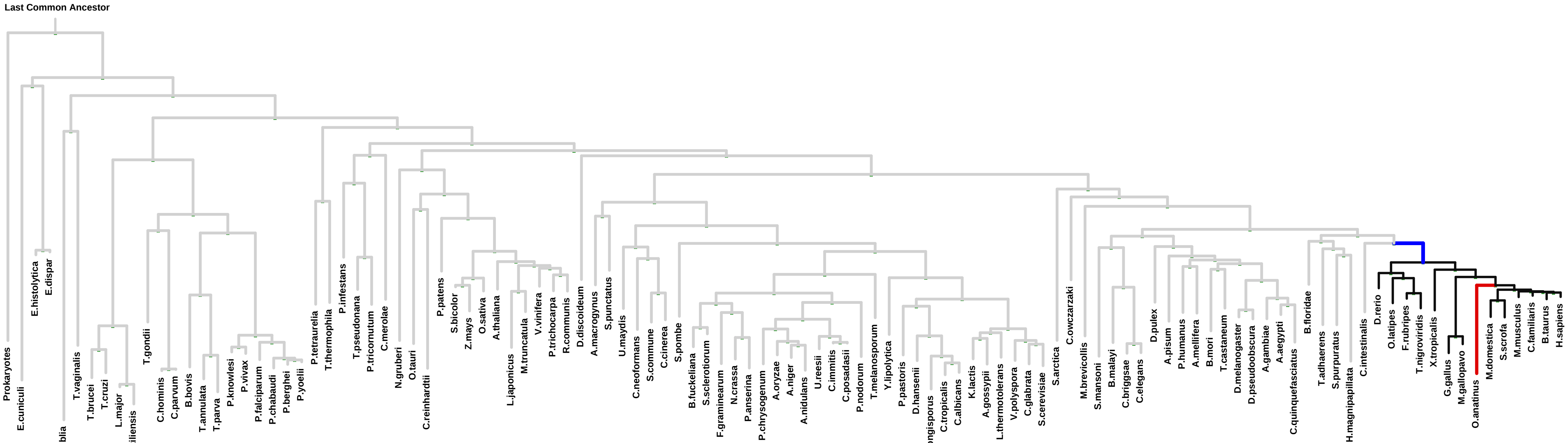
ECM 25, Gene set "Oxphos Complex 1", Page 2

Num of ECM Genes: 1. Num of Predicted Genes: 52



Log-likelihood Ratio Scale

0 10 20 30 40 50 60

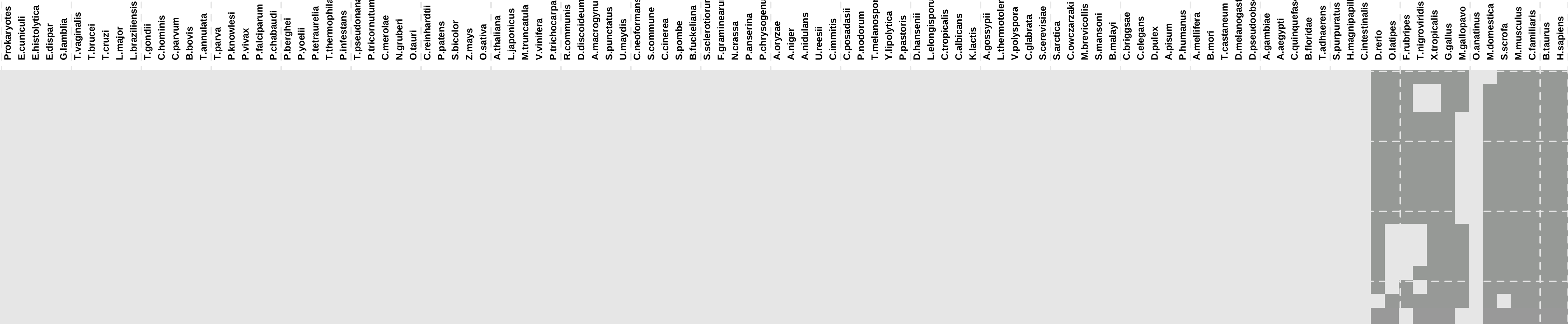


PG

D
D

Protein

LOC390638
PLGLB2
PLGLB1
MAP6D1
MARCKS
EPO
ADM
NPB
ADM2
FAM86C1
LOC643802
NMB
TMEM37
CSF1
C1orf172
MGP
FYTTD1
COX8A



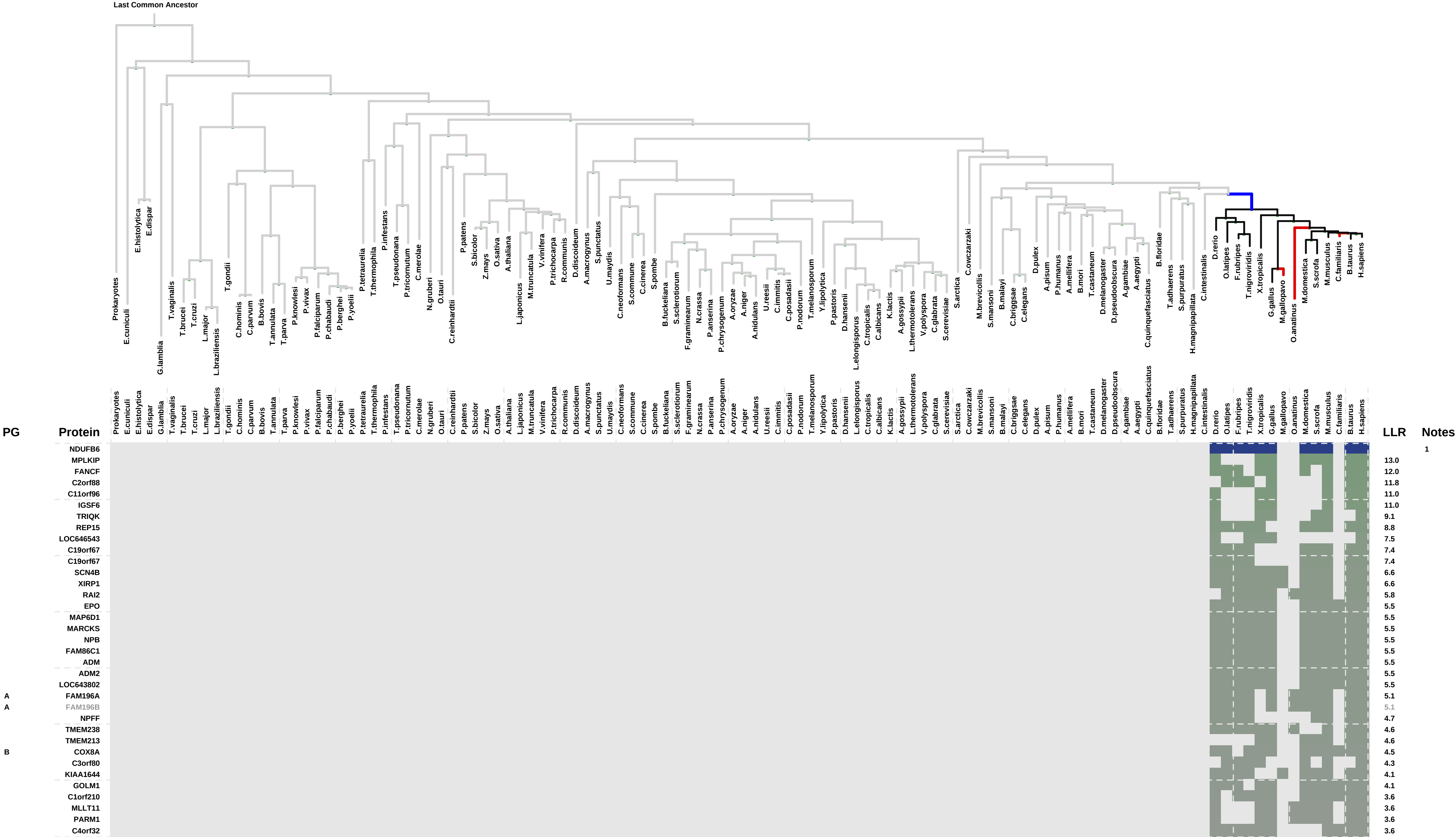
LLR

Notes

1.4
1.3
1.3
1.2
1.2
1.2
1.2
1.2
1.2
1.2
1.2
1.2
1.1
1.1
1.1
1.1
0.8
0.8
0.1

ECM 26, Gene set "Oxphos Complex 1", Page 1

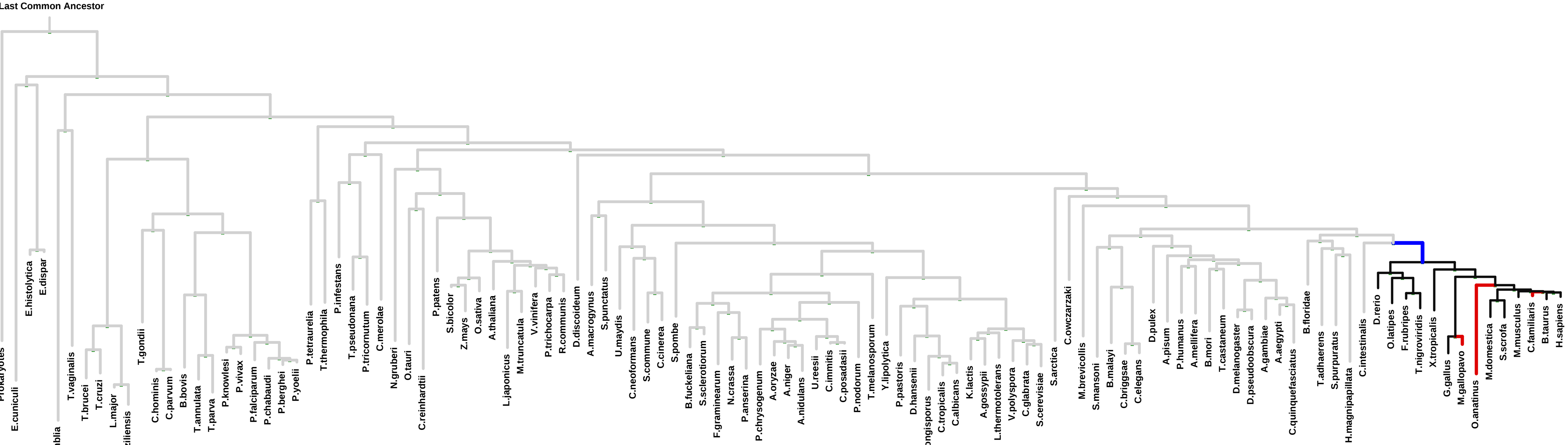
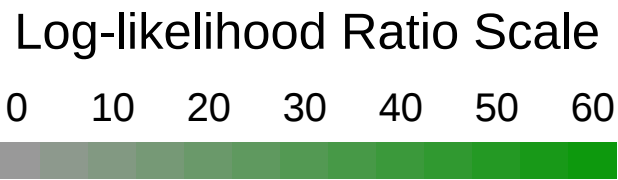
Num of ECM Genes: 1. Num of Predicted Genes: 74



1: Oxphos Complex 1

ECM 26, Gene set "Oxphos Complex 1", Page 2

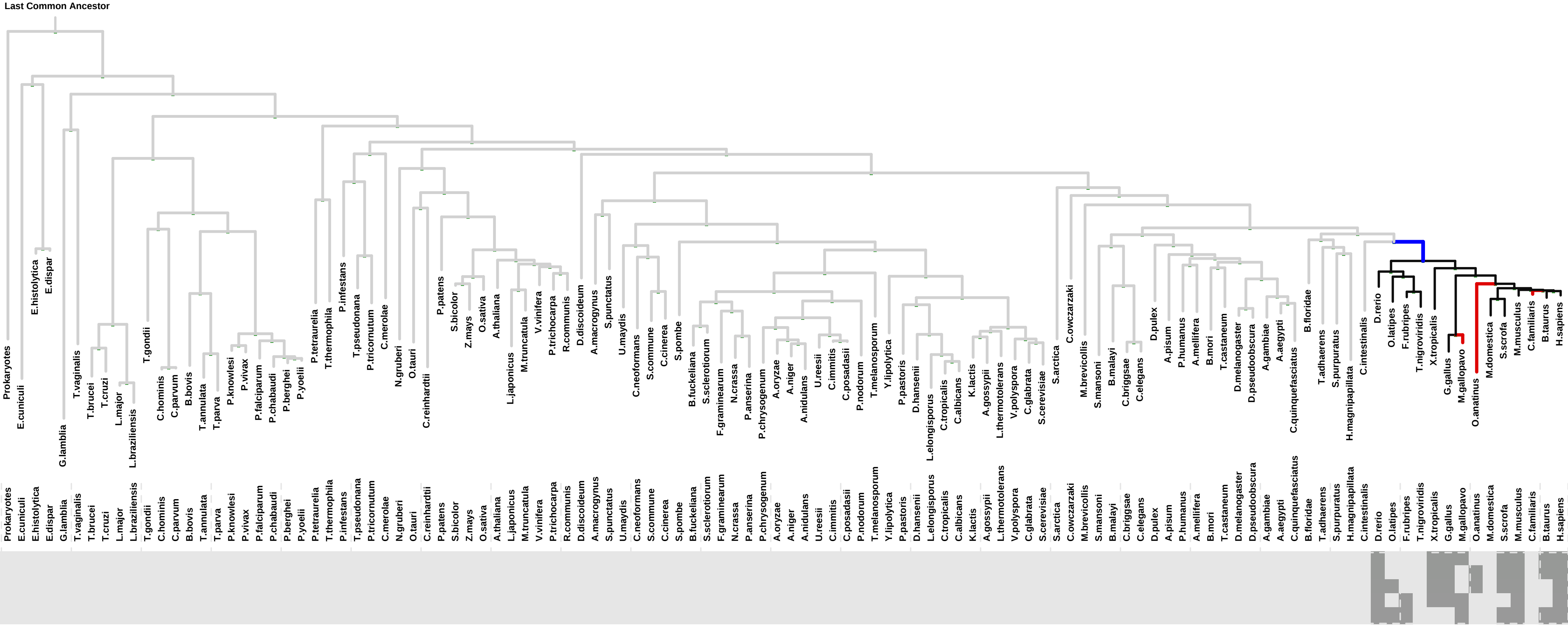
Num of ECM Genes: 1. Num of Predicted Genes: 74



PG	Protein		LLR	Notes
	TMEM154		3.4	
	KIAA0101		3.3	
	BCL2L12		3.2	
	C2orf80		3.2	
	GNRH2		3.1	
	BAALC		3.1	
	FAM159B		3.0	
	NBPF4		2.8	
C	NBPF5P		2.8	
C	NBPF6		2.8	
C	NBPF7		2.8	
C	NBPF9		2.8	
C	LOC100506032		2.8	
C	NBPF12		2.8	
	C10orf54		2.8	
C	NBPF1		2.8	
C	NBPF11		2.8	
C	NBPF14		2.8	
C	NBPF15		2.8	
C	NBPF16		2.8	
C	NBPF24		2.8	
	NBPF3		2.8	
	EID1		2.6	
	SNX21		2.6	
	LOC100288814		2.6	
	DEXI		2.3	
	SYCE3		2.0	
	MARCKSL1		2.0	
	C9orf152		1.9	
B	COX8C		1.9	
	TMEM158		1.9	
	HMGN3		1.8	
	TMEM240		1.7	
	LOC100506514		1.5	
	BSND		1.1	

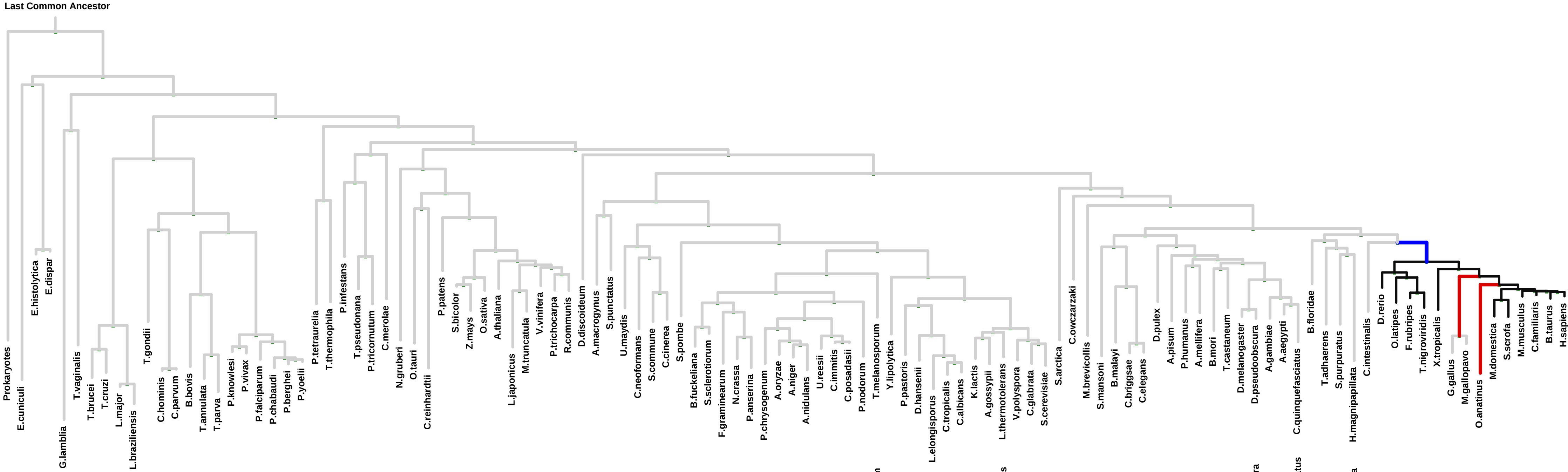
ECM 26, Gene set "Oxphos Complex 1", Page 3

Num of ECM Genes: 1. Num of Predicted Genes: 74



ECM 27, Gene set "Oxphos Complex 1", Page 1

Num of ECM Genes: 1. Num of Predicted Genes: 57

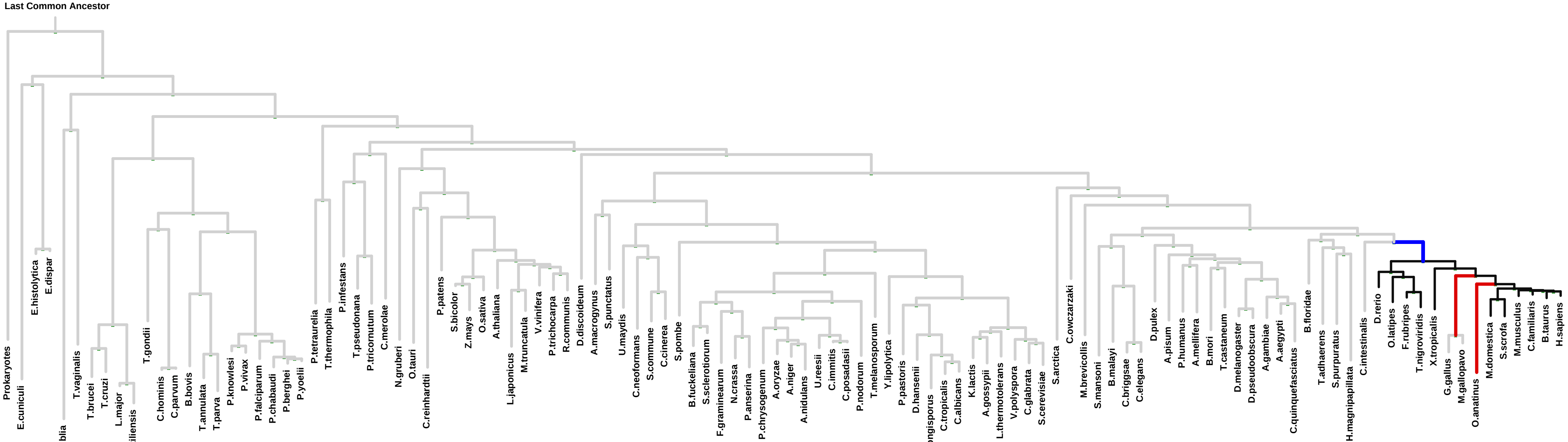
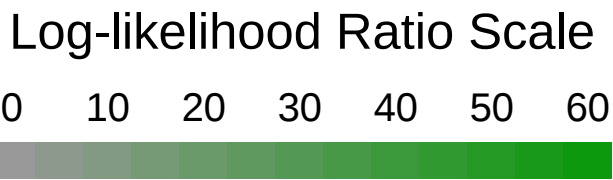


PG	Protein	LLR	Notes
A	NDUFA3		
	C1orf51	10.3	
	CAMK2N1	10.3	
	CAMK2N2	10.3	
	NPW	10.3	
	REP15	8.5	
	LOC100294020	8.1	
	LOC100294020	8.1	
	SPACA4	8.1	
	ECM1	7.8	
	TCTA	7.8	
	CD58	7.6	
	C19orf67	7.1	
	C19orf67	7.1	
	LOC728056	6.5	
D	OMP	6.2	
	FAM197Y6	5.5	
	FAM197Y7	5.5	
	FAM197Y8	5.5	
	FAM197Y9	5.5	
	FAM197Y4	5.5	
	FAM197Y5	5.5	
	LOC649201	5.5	
	GPBAR1	4.9	
	SMIM1	4.7	
	SYCN	4.7	
	SMIM10	4.7	
	C3orf80	4.4	
	NPFF	4.4	
	GNRH2	4.1	
B	BCL2L12	2.9	
	C2orf80	2.9	
	NPB	1.4	
	FAM86C1	1.4	
	ADM2	1.4	

1: Oxphos Complex 1

ECM 27, Gene set "Oxphos Complex 1", Page 2

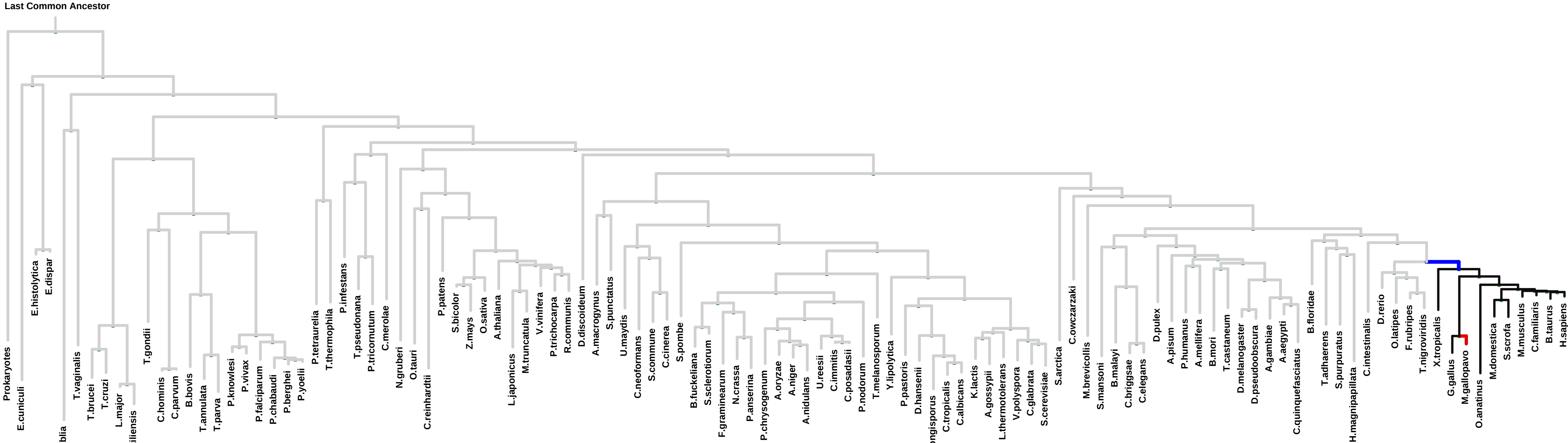
Num of ECM Genes: 1. Num of Predicted Genes: 57



PG	Protein	LLR	Notes
E	LOC643802	1.4	
	ADM	1.4	
	EPO	1.4	
	MAP6D1	1.4	
	MARCKS	1.4	
	BAD	1.4	
	C11orf95	1.1	
	CXorf21	1.0	
	OTOS	1.0	
	PROCA1	1.0	
E	C14orf28	1.0	
	RHBDD3	1.0	
	SYNE4	1.0	
	APOM	1.0	
	C11orf84	1.0	
	TINF2	1.0	
	TUSC5	1.0	
	VN1R4	1.0	
	COX8A	0.4	
	C19orf77	0.1	
	LOC646543	0.1	
	GOLM1	0.0	
	KIAA1644	0.0	

ECM 28, Gene set "Oxphos Complex 1", Page 1

Num of ECM Genes: 1. Num of Predicted Genes: 23



PG	Protein		LLR	Notes
A	NDUFC1		3.8	1
	PIANP		3.8	
	NCMAP		3.8	
	C1orf94		3.8	
	FAM174A		3.8	
	GKN1		3.8	
	PLA2G2C		3.8	
	QRFP		3.8	
	SLAMF7		3.8	
	TMEM215		3.8	
B	UPK3B		3.8	
	UPK3BL		3.8	
	100133763		3.8	
	100510059		3.8	
	TMEM171		2.0	
	FANCD2OS		2.0	
	C14orf79		1.3	
	C11orf74		1.3	
	NFAM1		1.3	
	C8orf22		1.2	
C	C4orf46		1.0	
	LOC100129478		1.0	
	TMEM140		1.0	
	KRTAP13-4		0.0	

1: Oxphos Complex 1