

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

Dataset:

Num of genes in input gene set: 28
Total number of genes: 20834
Prediction LLR threshold: 0

The CLIME PDF output two sections:

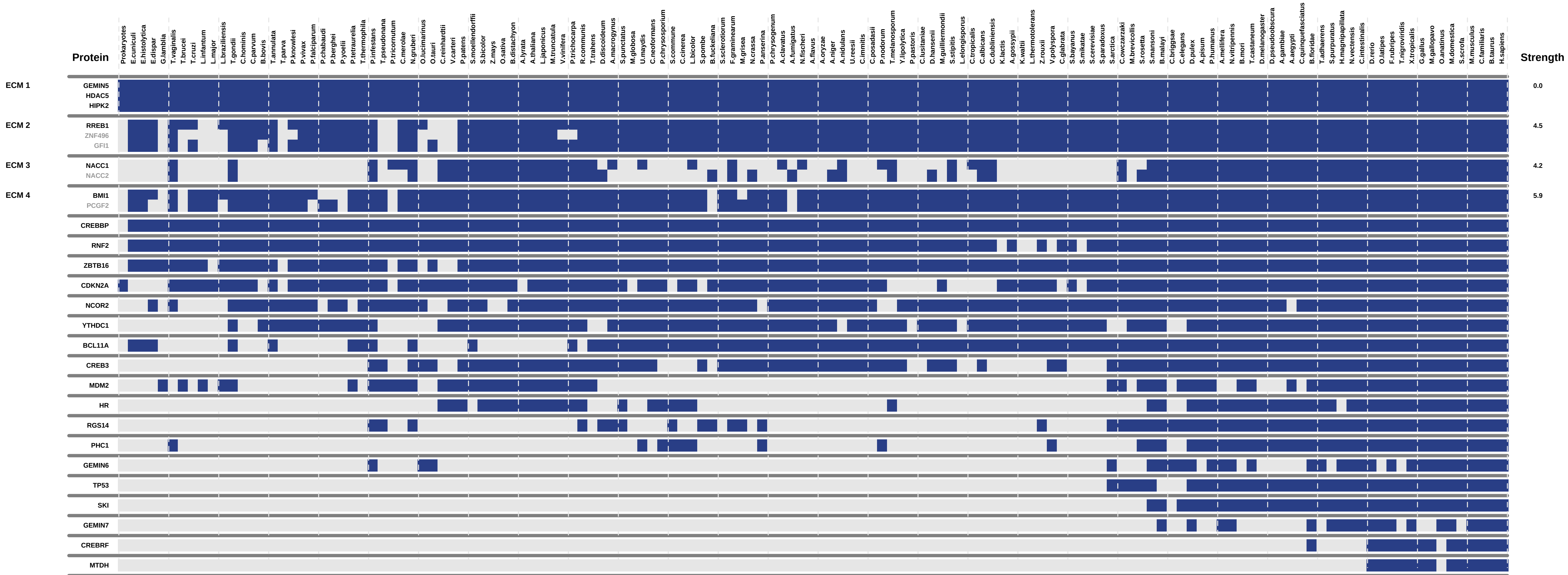
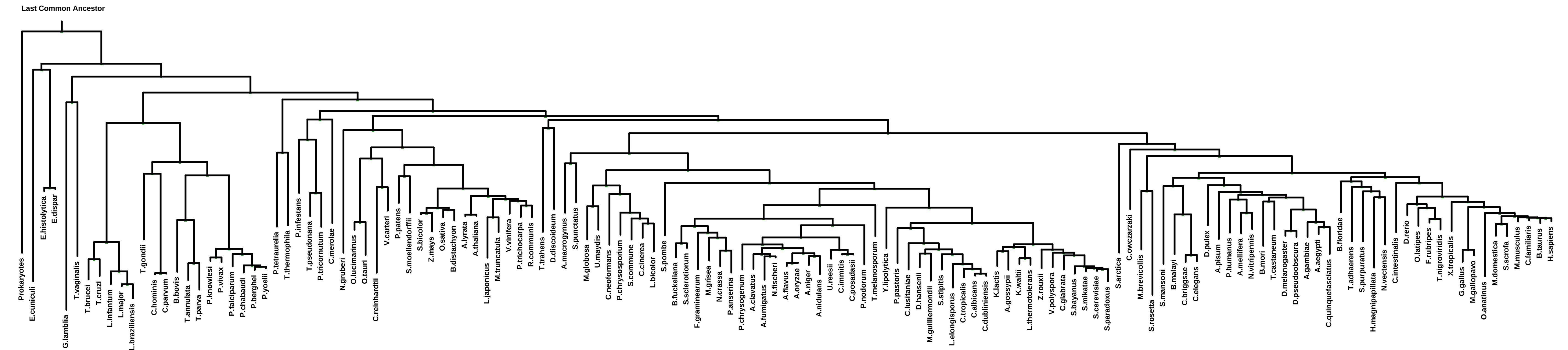
1) Overview of Evolutionarily Conserved Modules (ECMs)

- 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+

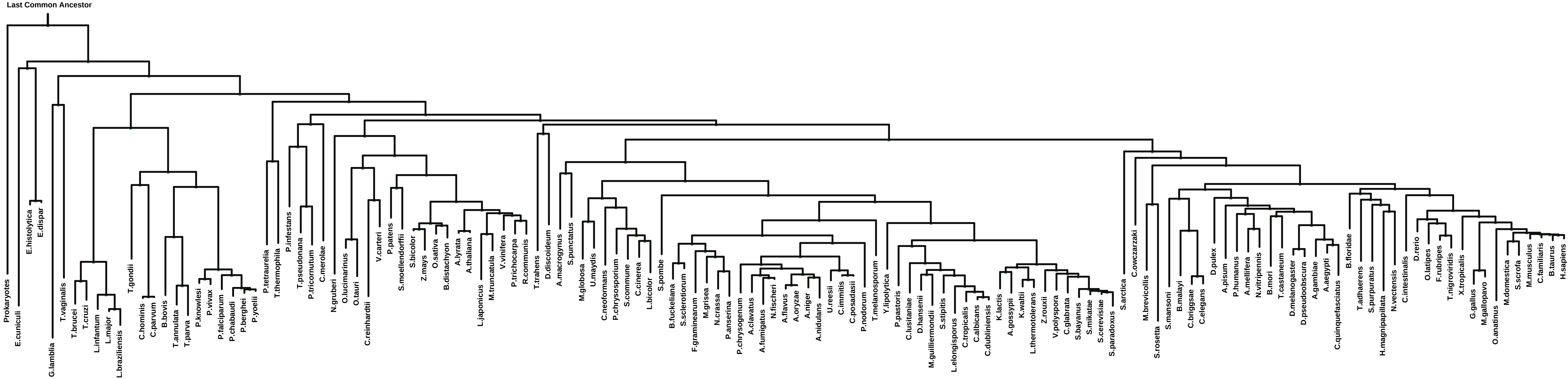
- Top panel shows the inferred evolutionary history on the predefined species tree. Branch color shows the gain event (blue) and loss events (red color, with brighter color indicating higher confidence in loss). Branches before the gain or after a loss are shown in gray.
- Bottom panel shows the input 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)



ECM 1, Gene set "nuclear body", Page 1

Num of ECM Genes: 3. Num of Predicted Genes: 0. ECM Strength: 0.0



PG

Protein	Protists	Plants	Fungi	Metazoa
GEMIN5				
HDAC5				
HIPK2				

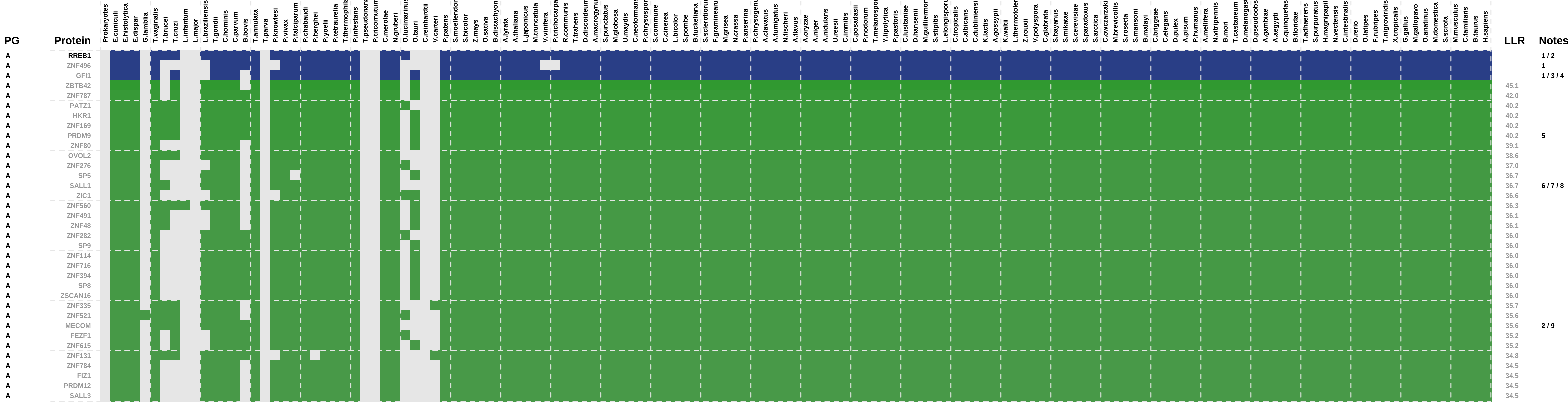
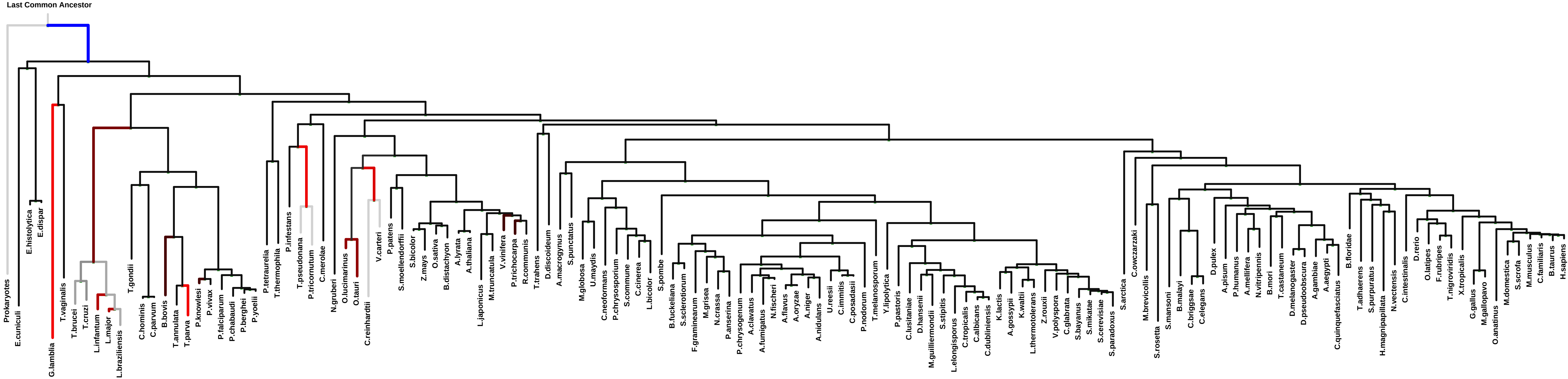
LLR Notes

1 / 2 / 3
2 / 4
2 / 5 / 6

1: Cajal body || 2: nuclear body || 3: spliceosomal complex || 4: histone deacetylase complex || 5: nuclear membrane || 6: PML body

ECM 2, Gene set "nuclear body", Page 1

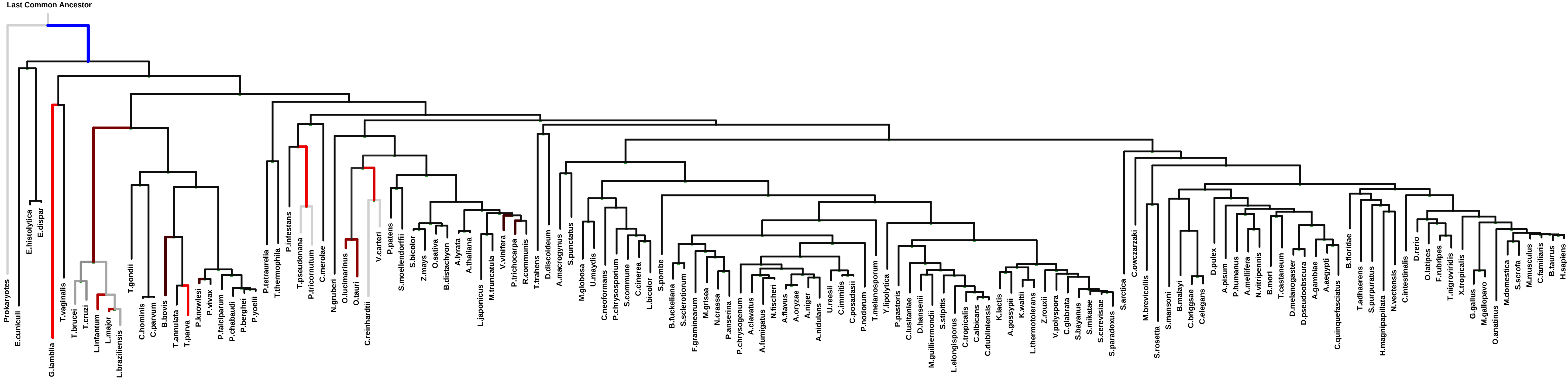
Num of ECM Genes: 3. Num of Predicted Genes: 500. ECM Strength: 4.5



1: nuclear body || 2: nuclear speck || 3: nuclear matrix || 4: transcriptional repressor complex || 5: chromosome || 6: chromocenter || 7: heterochromatin || 8: NuRD complex || 9: histone deacetylase complex

ECM 2, Gene set "nuclear body", Page 2

Num of ECM Genes: 3. Num of Predicted Genes: 500. ECM Strength: 4.5

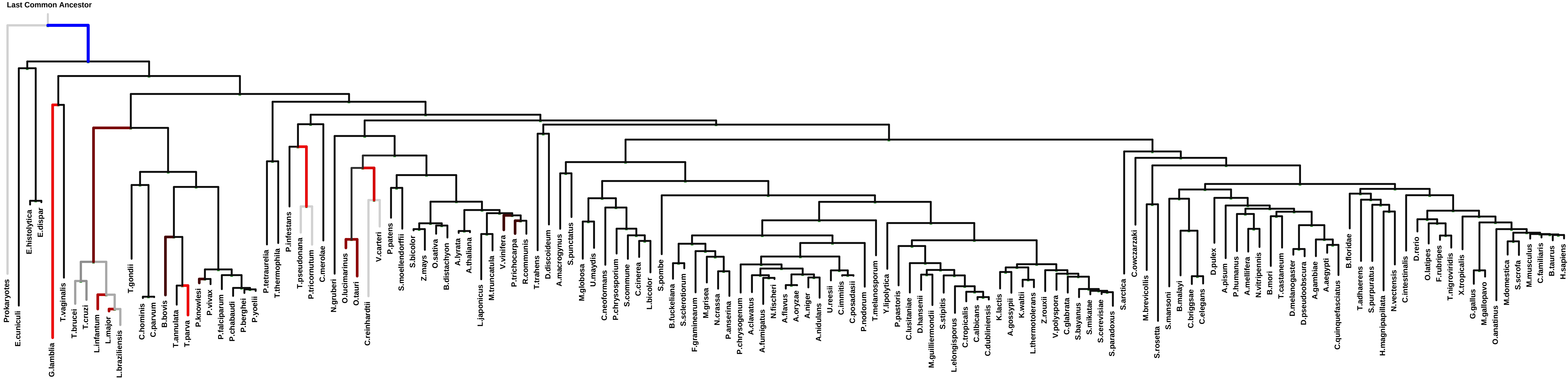


PG		Protein	Protists				Plants				Fungi				Metazoa				LLR	Notes
A		ZNF766																	34.3	
A		ZNF527																	34.3	
A		ZNF354B																	34.3	
A		ZFP3																	34.3	
A		ZNF667																	34.3	
A		ZNF468																	34.3	
A		ZNF229																	34.3	
A		ZNF771																	34.3	
A		ZNF251																	34.3	
A		ZNF497																	34.3	
A		ZNF514																	34.3	
		ZNF865																	34.3	
A		ZNF865																	34.3	
A		ZNF35																	34.3	
A		ZNF524																	34.3	1
A		ZNF597																	34.1	
A		ZNF682																	33.9	
A		ZNF689																	33.9	
A		ZNF195																	33.9	
A		ZNF727																	33.9	
A		ZNF736																	33.9	
A		SP6																	33.9	
A		HIC1																	33.9	2
A		ZNF432																	33.9	
A		ZNF140																	33.9	
A		KLF15																	33.9	
A		ZNF302																	33.9	
A		ZNF649																	33.9	
A		ZSCAN9																	33.9	
A		ZBTB18																	33.9	
A		FEZF2																	33.8	3
A		ZNF728																	33.7	
A		ZNF263																	33.7	4
A		ZNF23																	33.7	
A		ZNF653																	33.7	

1: cell || 2: chromatin || 3: nuclear chromosome || 4: microtubule cytoskeleton

ECM 2, Gene set "nuclear body", Page 3

Num of ECM Genes: 3. Num of Predicted Genes: 500. ECM Strength: 4.5

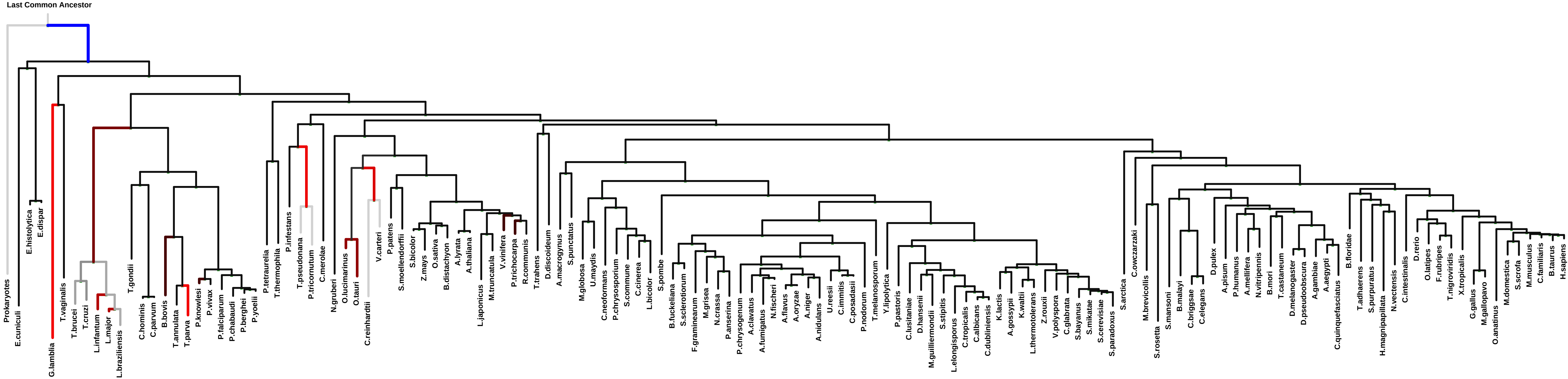


PG		Protein	Protists	Plants	Fungi	Metazoa	LLR	Notes
A		ZNF281					33.6	
		ZNF783					33.4	
A		ZNF568					33.3	
		PRDM16					33.3	
		PRDM16					33.3	
A		PRDM16					33.3	1
A		ZNF366					32.8	
A		E4F1					32.8	2
A		ZNF812					32.8	
A		ZFAT					32.6	
A		ZNF662					32.5	
A		SNAI2					32.5	3
A		ZNF182					32.5	
A		ZNF473					32.5	4
A		ZNF569					32.5	
A		ZNF479					32.5	
A		ZNF235					32.5	
A		ZNF484					32.5	
A		ZFP62					32.5	
A		ZNF239					32.5	
A		ZNF79					32.5	
A		ZNF112					32.5	
A		ZNF677					32.5	
A		ZNF226					32.5	
A		ZNF227					32.5	
A		ZNF888					32.5	
A		ZNF7					32.5	
A		ZSCAN5B					32.5	
A		729863					32.4	
A		100505654					32.4	
A		PLAG1					32.0	
A		ZNF101					31.9	
A		ZNF215					31.8	
A		IKZF1					31.6	5
A		ZNF692					31.6	

1: transcriptional repressor complex || 2: spindle || 3: nuclear chromatin || 4: Cajal body || 5: centromeric heterochromatin

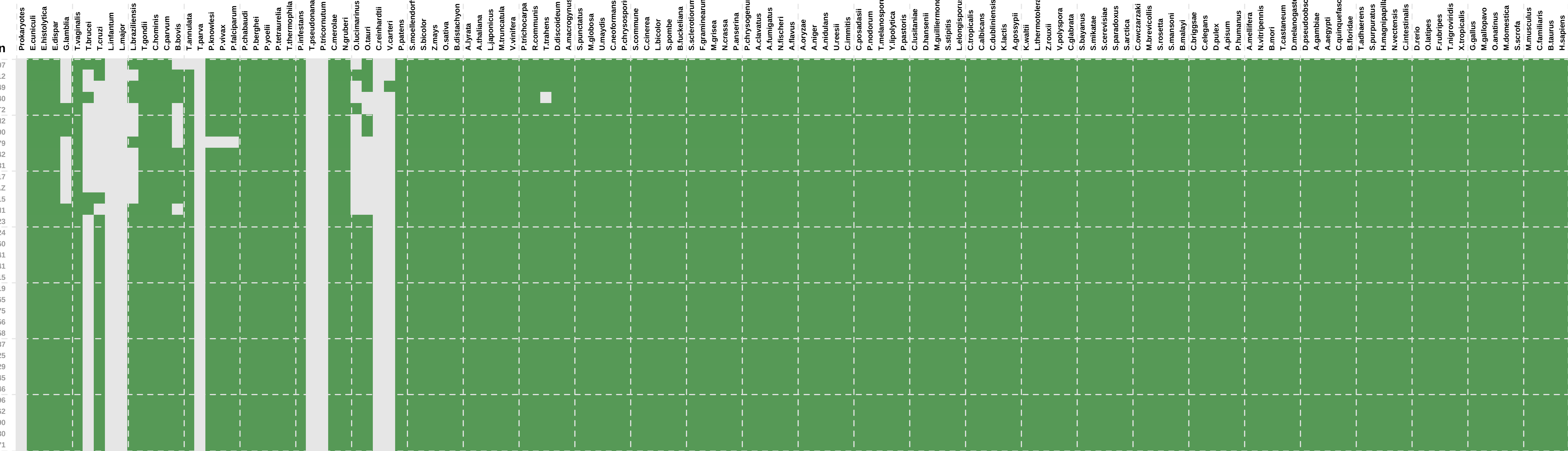
ECM 2, Gene set "nuclear body", Page 4

Num of ECM Genes: 3. Num of Predicted Genes: 500. ECM Strength: 4.5



PG	Protein	Protists	Plants	Fungi	Metazoa	LLR	Notes
A	ZIC2					31.6	
A	KLF16					31.6	
A	ZNF793					31.4	
A	PRDM6					31.4	
A	PLAGL1					31.4	
A	ZNF341					31.4	
A	ZBTB45					31.4	
A	ZBTB20					31.4	
A	ZNF610					31.4	
A	ZNF24					31.4	
A	ZNF230					31.4	
A	ZSCAN20					31.4	
A	ZNF20					31.3	
A	ZNF808					31.0	
A	ZNF433					30.6	
A	ZNF559					30.6	
A	ZNF774					30.6	
A	ZNF629					30.6	
A	GLI4					30.6	
A	ZFP64					30.6	
A	REPIN1					30.6	1
A	ZBTB7B					30.6	
A	ZNF599					30.6	
A	ZNF284					30.6	
A	ZNF853					30.6	
A	ZNF143					30.6	
A	ZNF460					30.6	
A	YY1					30.6	2 / 3 / 4
A	YY2					30.6	
A	ZNF76					30.6	
A	ZNF641					30.6	
A	PLAGL2					30.6	
A	ZFP42					30.6	
A	KLF7					30.4	
A	ZNF764					30.2	

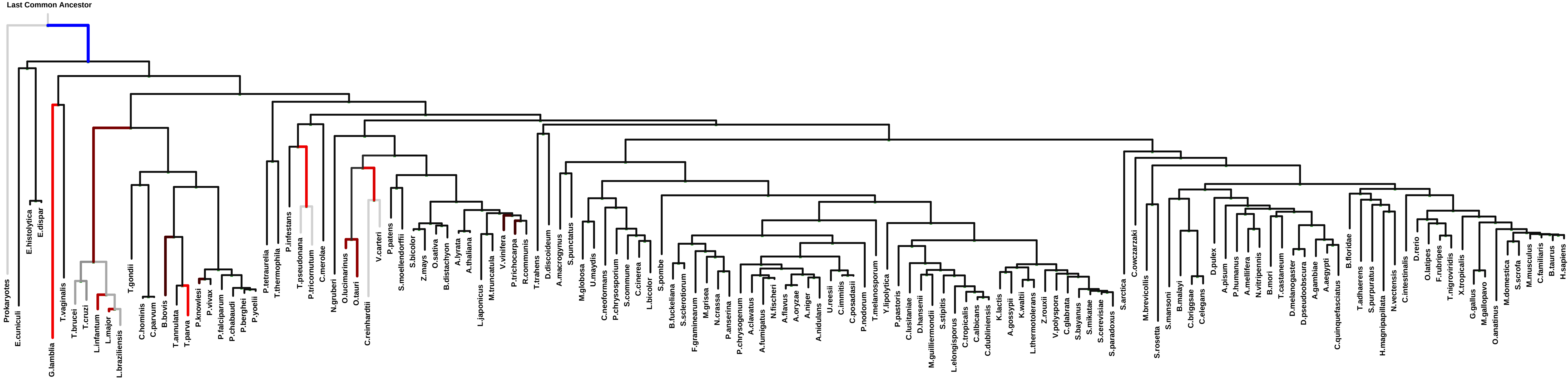
Num of ECM Genes: 3. Num of Predicted Genes: 500. ECM Strength: 4.5



1: nuclear chromatin || 2: microtubule cytoskeleton || 3: intermediate filament cytoskeleton

ECM 2, Gene set "nuclear body", Page 6

Num of ECM Genes: 3. Num of Predicted Genes: 500. ECM Strength: 4.5

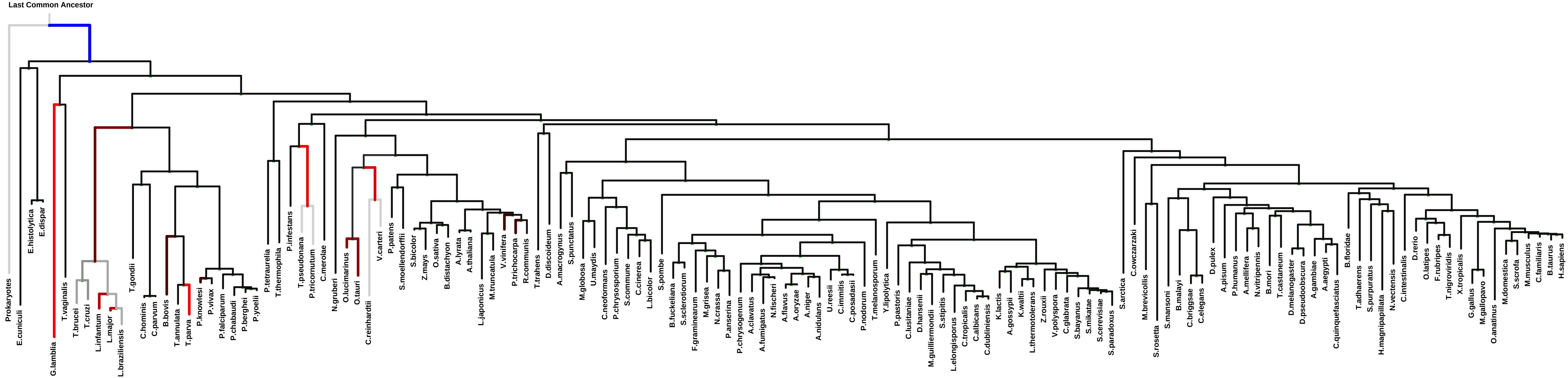


PG	Protein	Protists	Plants	Fungi	Metazoa	LLR	Notes
A	ZNF25					28.9	
A	ZNF584					28.9	
A	ZNF347					28.9	
A	ZNF189					28.9	
A	ZKSCAN8					28.9	
A	ZNF121					28.9	
A	ZNF211					28.8	
A	GLI2					28.5	1
A	ZNF550					28.5	
A	ZXDA					28.5	
A	ZXDB					28.5	
A	ZFP82					28.5	
A	KLF1					28.5	2
A	ZEB1					28.5	
A	ZNF148					28.4	
A	BCL6B					28.4	
A	ZNF707					28.4	
A	ZNF709					28.4	
A	ZKSCAN1					28.4	
A	ZNF165					28.4	
A	ZNF718					28.4	
A	ZNF2					28.4	
A	ZNF572					28.4	
A	ZNF467					28.4	
A	ZNF585A					28.4	
A	ZNF587B					28.4	
A	ZNF202					28.4	
A	ZNF605					28.4	
A	ZNF606					28.4	
A	ZNF772					28.4	
A	ZNF10					28.4	
A	ZNF777					28.4	
A	ZNF350					28.4	3 / 4
A	ZNF214					28.4	
A	ZNF18					28.4	

1: motile primary cilium || 2: nuclear chromatin || 3: nuclear matrix || 4: transcriptional repressor complex

ECM 2, Gene set "nuclear body", Page 7

Num of ECM Genes: 3. Num of Predicted Genes: 500. ECM Strength: 4.5

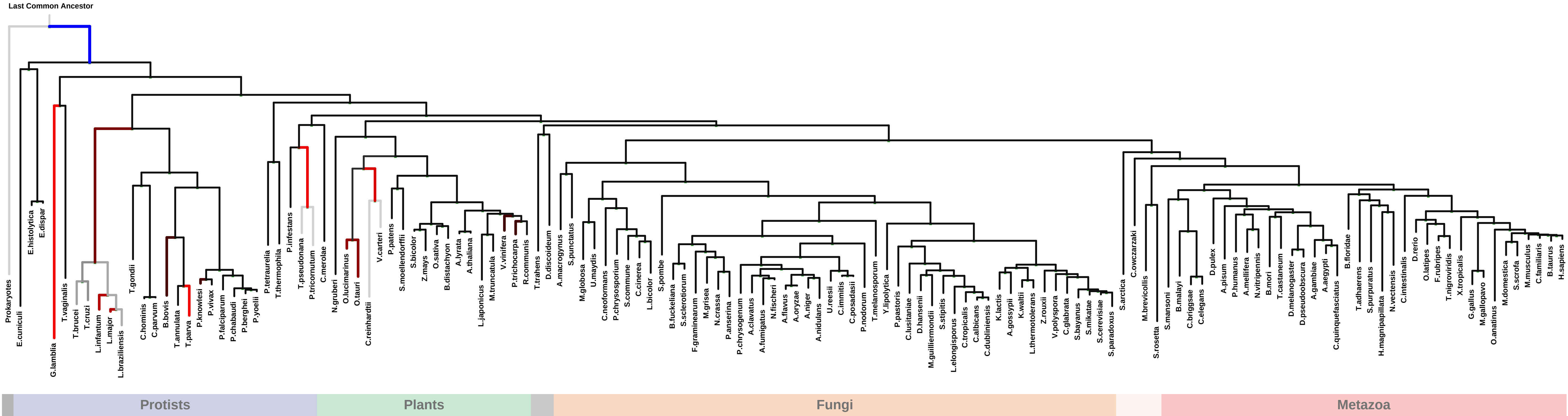


PG	Protein	Protists	Plants	Fungi	Metazoa	LLR	Notes
A	ZNF628					28.4	1
A	ZNF382					28.4	
A	ZNF501					28.4	
A	ZNF506					28.4	
A	ZNF510					28.4	
A	ZNF224					28.4	
A	ZNF397					28.4	
A	ZNF835					28.4	
A	ZNF274					28.4	
A	ZNF671					28.4	
A	ZNF852					28.4	
A	ZNF675					28.4	
A	MZF1					28.4	
A	ZSCAN26					28.4	
A	ZNF551					28.4	
A	ZNF691					28.4	
A	ZNF552					28.4	
A	ZNF416					28.4	
A	ZNF697					28.4	
A	ZSCAN22					28.4	
A	ZSCAN23					28.4	
A	ZSCAN30					28.4	
A	ZNF418					28.4	
A	LOC100287477					28.4	
A	ZNF701					28.4	
A	ZFP2					28.4	2
A	ZNF708					28.4	
A	KLF2					28.3	
A	ZIM2					28.3	
A	ZNF555					28.2	
A	OVOL1					28.2	
A	SP1					28.0	
A	ZNF705G					27.9	
A	ZNF423					27.9	
A	ZNF354C					27.6	

1: transcriptional repressor complex || 2: protein-DNA complex

ECM 2, Gene set "nuclear body", Page 8

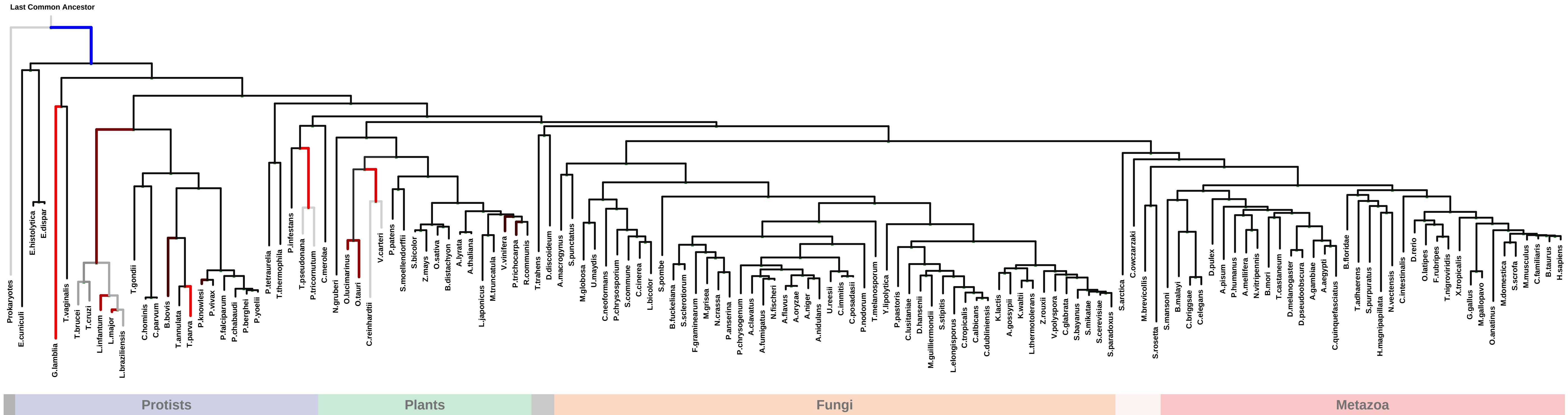
Num of ECM Genes: 3. Num of Predicted Genes: 500. ECM Strength: 4.5



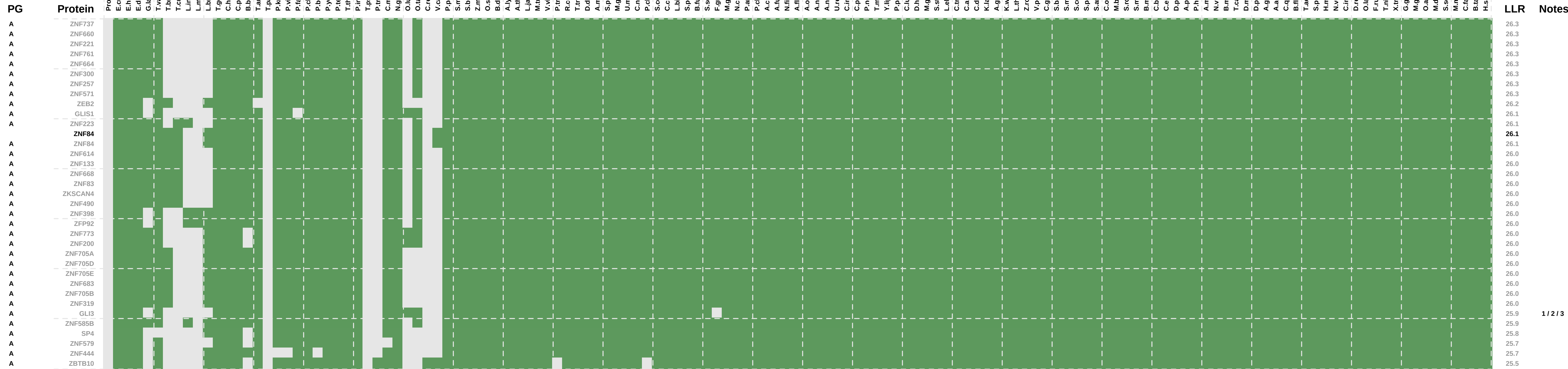
PG	Protein	LLR	Notes
A	ZNF594	27.6	
A	ZNF627	27.6	
A	ZNF860	27.6	
A	ZNF485	27.6	
A	ZNF391	27.6	
A	ZNF12	27.6	
A	ZNF155	27.6	
A	ZNF322	27.6	
A	ZNF530	27.6	
A	ZNF534	27.6	
A	KLF13	27.6	
A	ZIC3	27.3	
A	LOC100129144	27.2	
A	PRDM10	27.2	
A	ZNF570	27.1	
A	ZNF778	27.1	
A	ZKSCAN3	27.1	
A	ZNF710	27.1	
A	ZNF557	27.1	
A	ZNF383	27.1	
A	ZNF19	27.1	
A	ZNF596	27.1	
A	ZFP69B	27.1	
A	ZNF480	27.1	
A	PRDM5	27.1	
A	ZNF568	27.1	
A	ZNF268	27.1	
A	ZNF836	27.1	
A	ZNF234	27.1	
A	ZNF57	27.1	
A	ZNF672	27.1	
A	PRDM14	26.9	
A	ZFP57	26.9	
A	ZBTB7C	26.8	
A	IKZF4	26.8	

ECM 2, Gene set "nuclear body", Page 9

Num of ECM Genes: 3. Num of Predicted Genes: 500. ECM Strength: 4.5

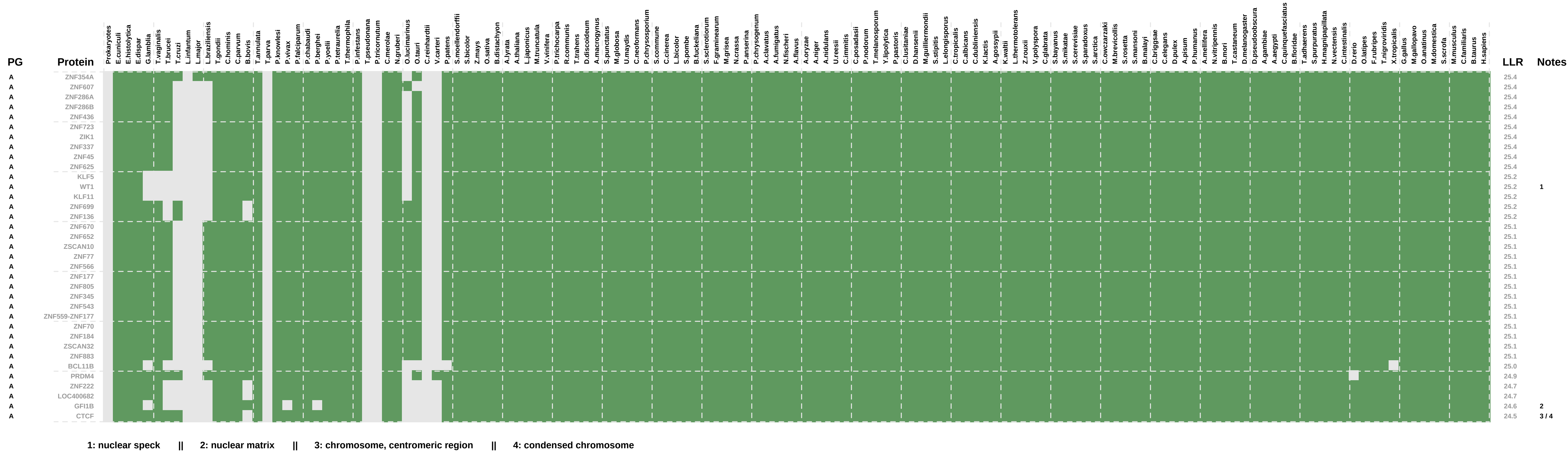
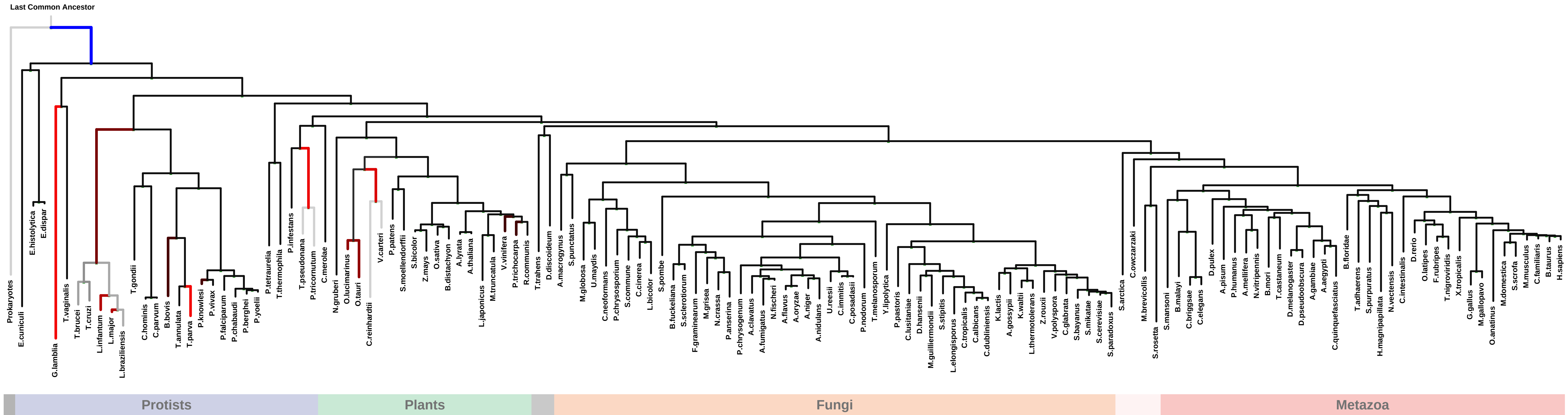
[illegible]

Num of ECM Genes: 3. Num of Predicted Genes: 500. ECM Strength: 4.5



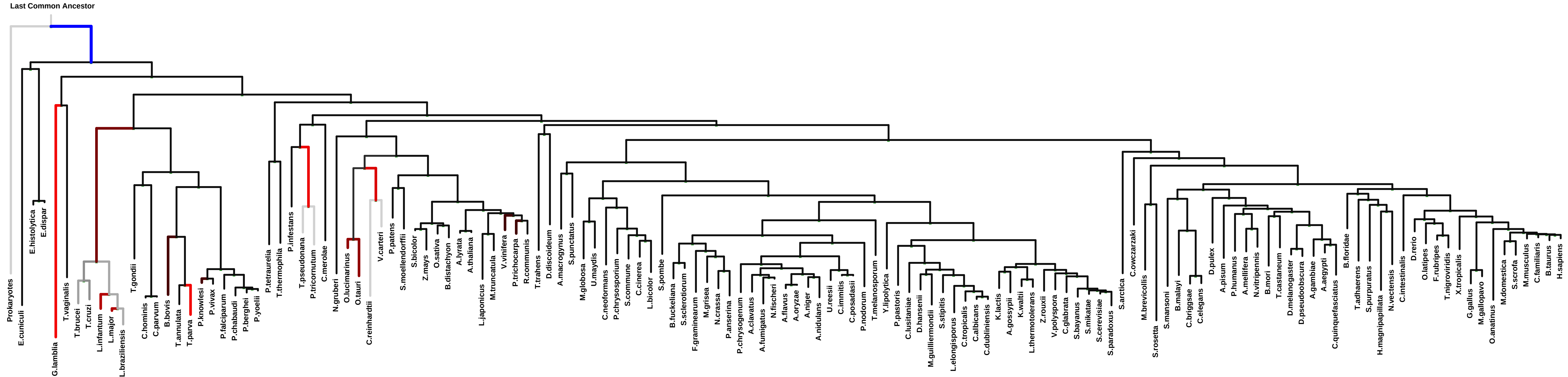
ECM 2, Gene set "nuclear body", Page 11

Num of ECM Genes: 3. Num of Predicted Genes: 500. ECM Strength: 4.5



ECM 2, Gene set "nuclear body", Page 12

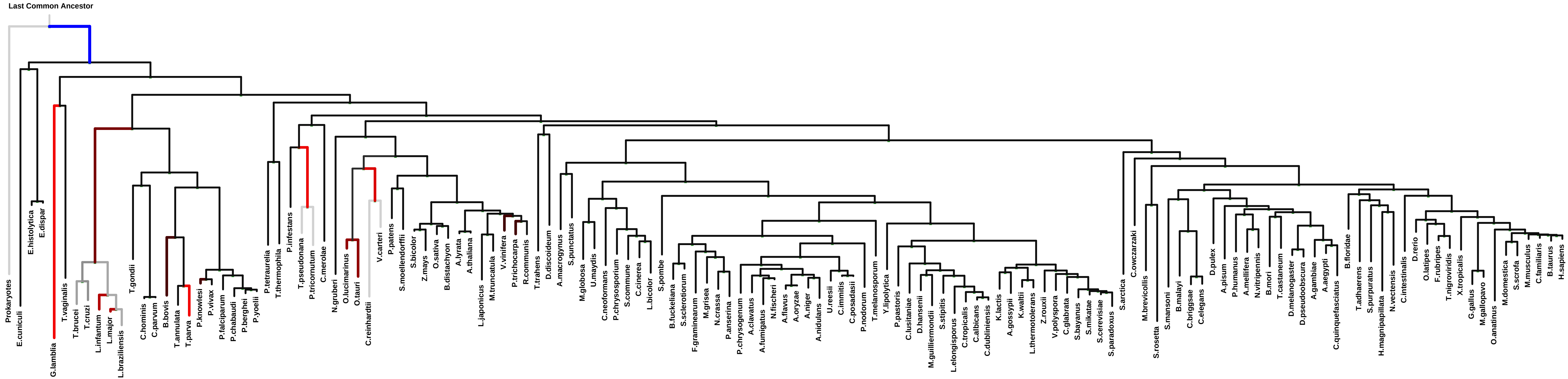
Num of ECM Genes: 3. Num of Predicted Genes: 500. ECM Strength: 4.5

[illegible]

1: PML body || 2: transcriptional repressor complex || 3: focal adhesion

ECM 2, Gene set "nuclear body", Page 13

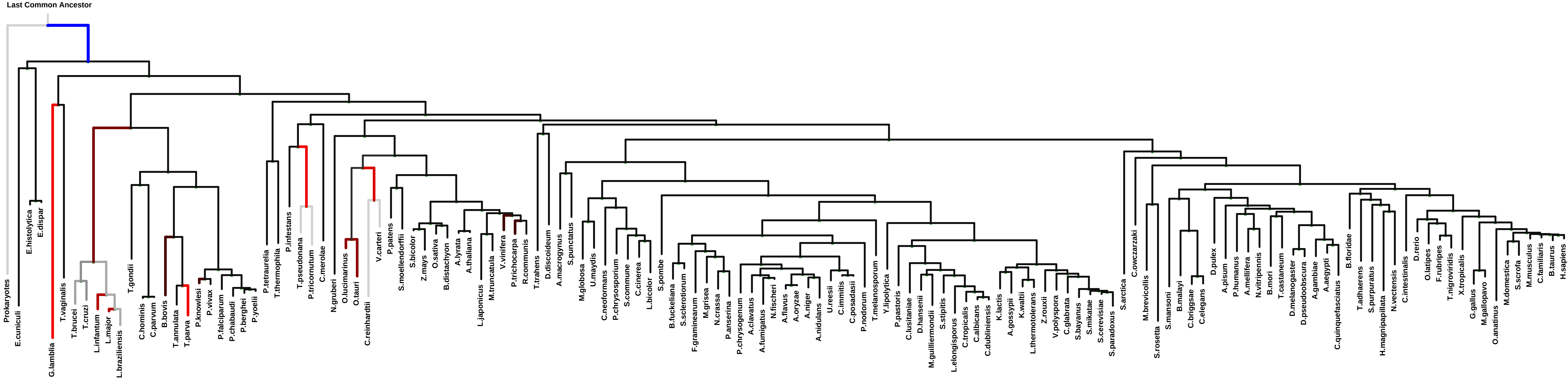
Num of ECM Genes: 3. Num of Predicted Genes: 500. ECM Strength: 4.5



PG		Protein	Protists		Plants		Fungi		Metazoa		LLR	Notes
A		ZNF256									22.9	
A		ZNF878									22.9	
A		ZFP1									22.9	
A		ZNF134									22.9	
A		ZNF729									22.9	
A		ZNF792									22.9	
A		ZNF99									22.9	
A		ZNF33A									22.9	
A		ZNF264									22.9	
A		ZNF266									22.9	
A		ZNF564									22.9	
A		ZNF749									22.9	
A		ZNF658									22.9	
A		ZNF81									22.9	
A		ZNF529									22.9	
A		ZNF567									22.9	
A		ZFP14									22.9	
A		ZKSCAN7									22.9	
A		ZNF311									22.9	
A		ZNF205									22.9	
A		ZNF132									22.9	
A		ZNF250									22.9	
A		ZNF154									22.9	
A		KLF14									22.9	
A		SP7									22.9	
A		SALL4									22.7	
A		ZIC4									22.7	
A		VEZF1									22.5	
A		ZKSCAN5									22.4	
A		ZNF146									22.2	
A		ZNF260									22.1	
A		ZNF600									22.1	
A		ZNF816									22.1	
A		ZFP28									22.1	
A		ZNF732									22.1	

ECM 2, Gene set "nuclear body", Page 14

Num of ECM Genes: 3. Num of Predicted Genes: 500. ECM Strength: 4.5

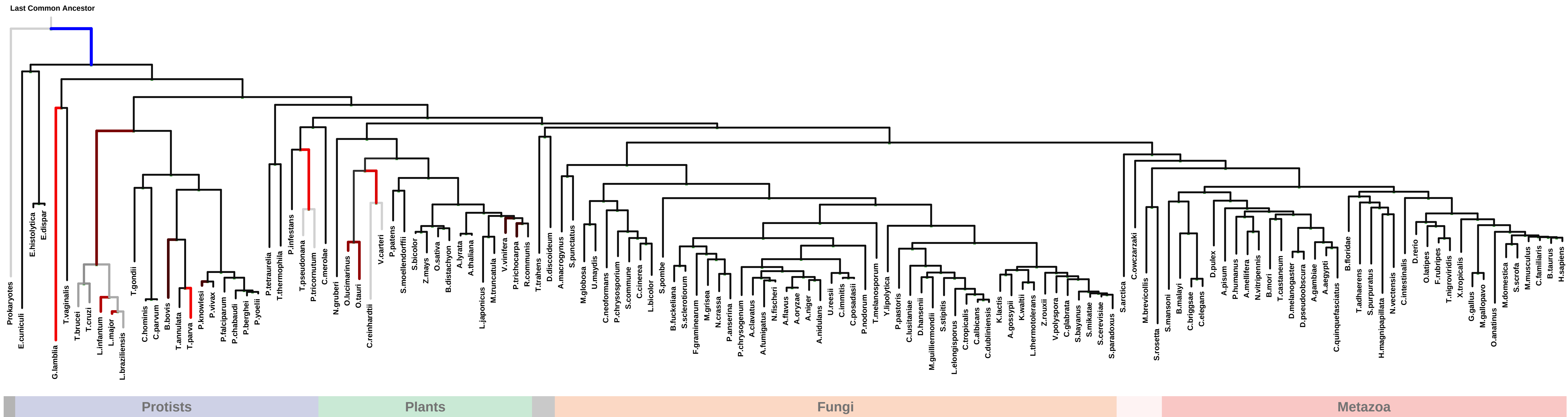


PG	Protein	Protists	Plants	Fungi	Metazoa	LLR	Notes
A	ZNF14					22.1	
A	ZNF791					22.1	
A	ZNF548					22.1	
A	GLIS3					22.0	1
A	GLI1					22.0	2
A	BCL6					22.0	3
A	ZBTB43					21.9	
A	KLF9					21.9	
A	IKZF3					21.9	
A	ZNF782					21.8	
A	ZNF355P					21.7	
A	OSR1					21.6	
A	ZFP41					21.6	
A	ZNF621					21.6	
A	ZNF117					21.6	
A	ZNF730					21.6	
A	ZNF75A					21.6	
A	ZNF616					21.6	
A	OSR2					21.4	
A	ZNF684					21.4	
A	ZBTB8B					21.3	
A	KLF3					21.2	
A	GTF3A					21.0	
A	SNAI1					21.0	
A	ZIC5					20.9	
A	ZNF574					20.8	
A	ZNF44					20.8	
A	ZNF440					20.8	4
A	ZNF540					20.8	
A	ZNF181					20.8	
A	ZNF544					20.8	
A	ZNF669					20.8	
A	ZNF157					20.8	
A	ZNF443					20.8	
A	ZNF283					20.8	

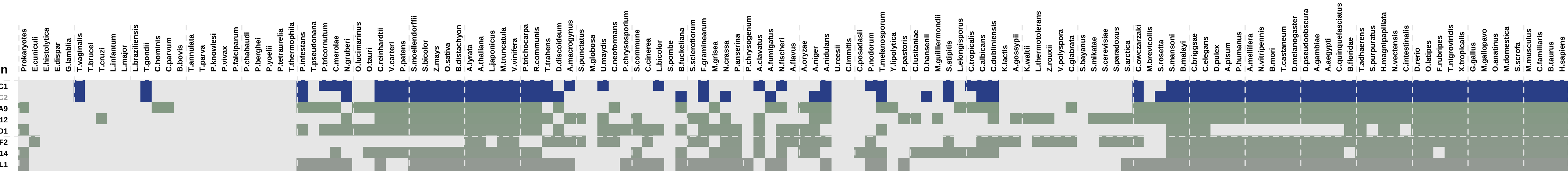
1: nuclear part || 2: cilium || 3: replication fork || 4: microtubule cytoskeleton

ECM 2, Gene set "nuclear body", Page 15

Num of ECM Genes: 3. Num of Predicted Genes: 500. ECM Strength: 4.5

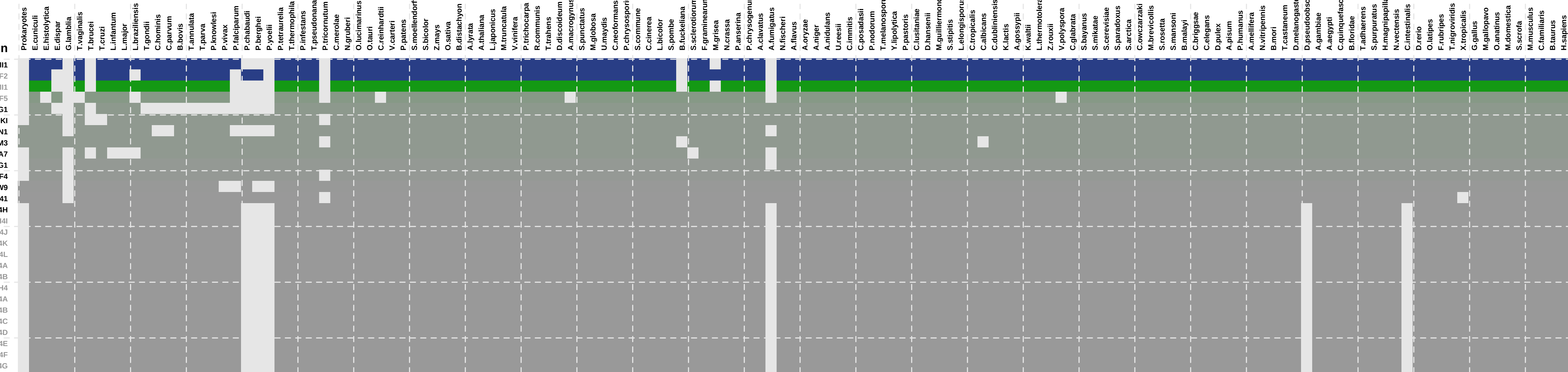
[illegible]

Num of ECM Genes: 2. Num of Predicted Genes: 6. ECM Strength: 4.2



LLR	Notes
	1
	1
9.6	
8.3	2
7.5	
5.8	3
5.5	4
2.6	

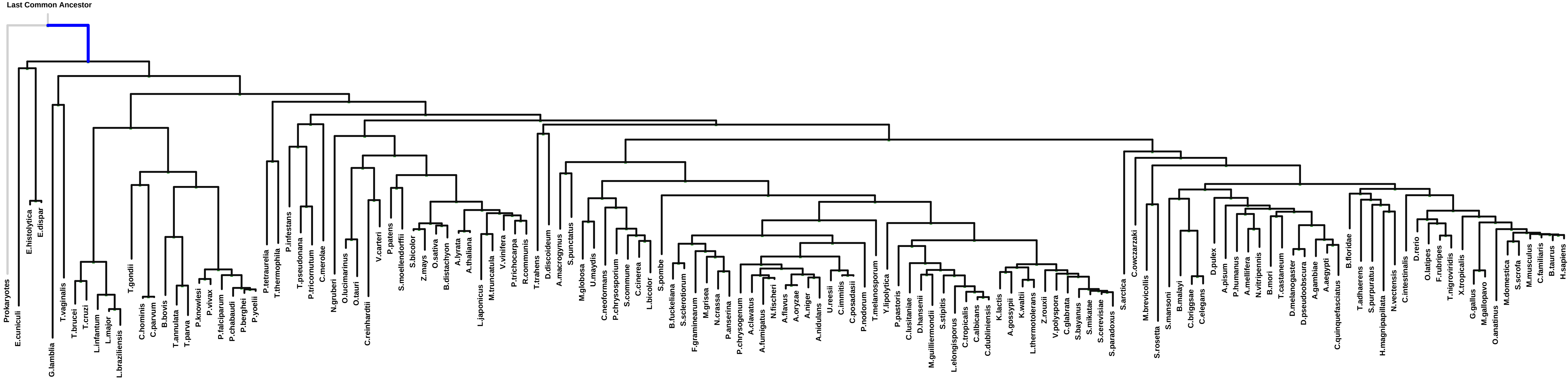
Num of ECM Genes: 2. Num of Predicted Genes: 26. ECM Strength: 5.9



1: nuclear body || 2: PcG protein complex || 3: PRC1 complex || 4: ubiquitin ligase complex || 5: nuclear chromatin || 6: sex chromatin || 7: dendrite || 8: midbody || 9: nuclear speck || 10: early endosome || 11: eukaryotic translation initiation factor 4F complex || 12: microtubule cytoskeleton || 13: PML body || 14: actin cytoskeleton || 15: nucleosome

ECM 5, Gene set "nuclear body", Page 1

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



PG

Protein



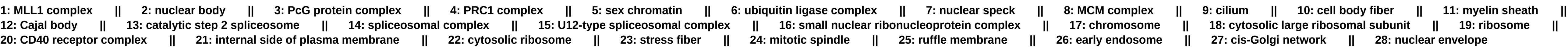
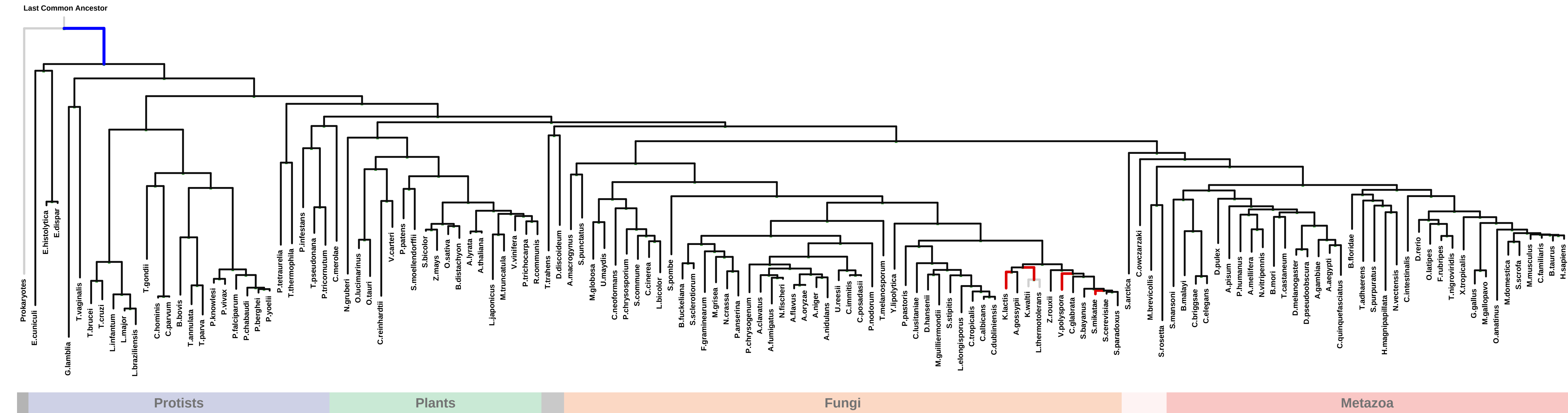
LLR

Notes

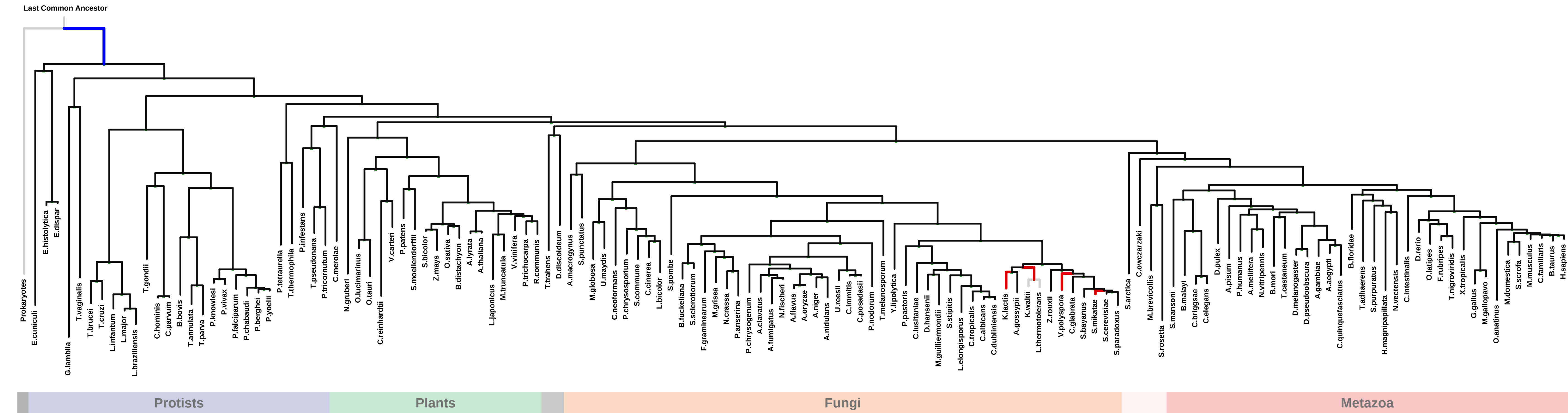
1 / 2 / 3 / 4

1: condensed chromosome outer kinetochore || 2: histone acetyltransferase complex || 3: nuclear body || 4: nuclear chromatin

Num of ECM Genes: 1. Num of Predicted Genes: 65

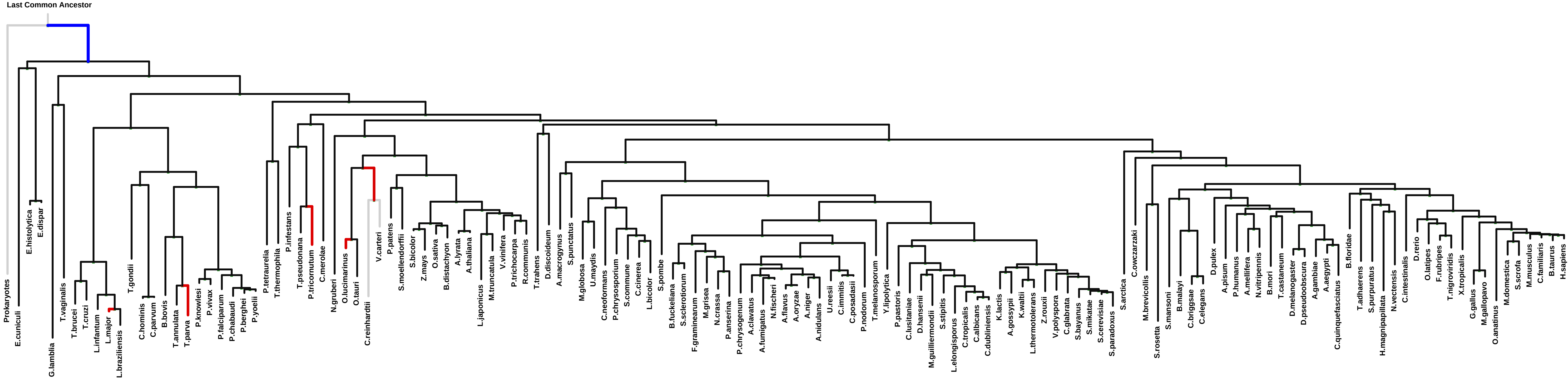


Num of ECM Genes: 1. Num of Predicted Genes: 65



ECM 7, Gene set "nuclear body", Page 1

Num of ECM Genes: 1. Num of Predicted Genes: 500

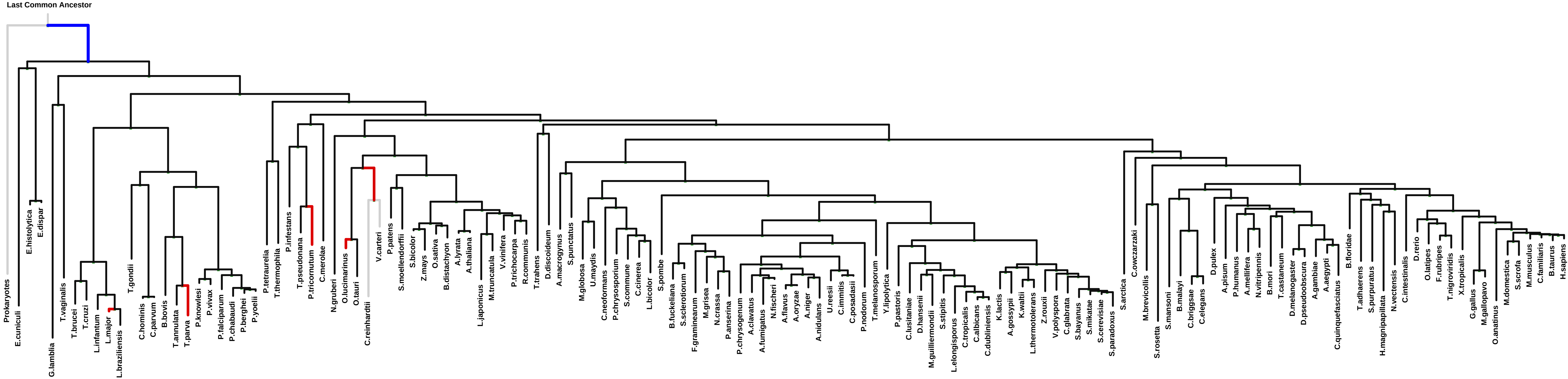


PG	Protein	Protists	Plants	Fungi	Metazoa	LLR	Notes
A	ZBTB16					29.5	1 / 2 / 3 / 4
A	ZNF500					28.8	
A	ZNF112					28.8	
A	ZFP62					28.8	
A	ZNF182					28.8	
A	ZNF226					28.8	
A	ZNF227					28.8	
A	ZNF235					28.8	
A	ZNF239					28.8	
A	ZNF473					28.8	5
A	ZNF479					28.8	
A	ZNF484					28.8	
A	SNAI2					28.8	6
A	ZNF569					28.8	
A	ZNF677					28.8	
A	ZNF7					28.8	
A	ZNF79					28.8	
A	ZNF888					28.8	
A	ZSCAN5B					28.8	
A	ZNF354C					28.8	
A	ZNF782					27.6	
A	ZNF808					27.6	
A	ZNF585B					26.8	
A	ZBTB40					26.7	
A	ZNF629					26.0	
A	ZFP64					26.0	
A	ZBTB7B					26.0	
A	ZNF774					26.0	
A	ZNF284					26.0	
A	ZNF559					26.0	
A	GLI4					26.0	
A	REPIN1					26.0	7
A	ZNF599					26.0	
A	PRDM16					25.6	
A	PRDM16					25.6	4

1: nuclear body || 2: nuclear speck || 3: PML body || 4: transcriptional repressor complex || 5: Cajal body || 6: nuclear chromatin || 7: nuclear origin of replication recognition complex

ECM 7, Gene set "nuclear body", Page 2

Num of ECM Genes: 1. Num of Predicted Genes: 500

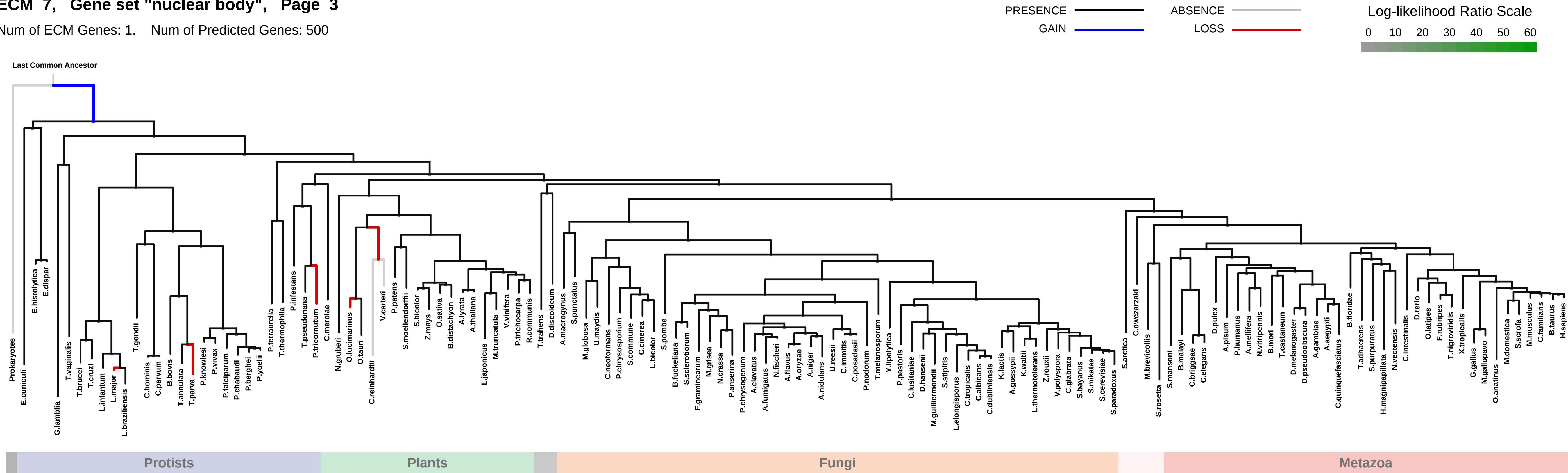


PG	Protein	Protists	Plants	Fungi	Metazoa	LLR	Notes
	PRDM16					25.6	
A	ZNF35					25.4	1
A	ZNF667					25.4	
A	ZNF497					25.4	
A	ZNF354B					25.4	
A	ZNF771					25.4	
A	ZNF514					25.4	
A	ZNF527					25.4	
A	ZNF229					25.4	
A	ZNF468					25.4	
	ZNF865					25.4	
A	ZNF865					25.4	
A	ZNF251					25.4	
A	ZFP3					25.4	
A	ZNF223					25.4	
A	ZNF324B					23.7	
A	ZNF333					23.6	
A	ZNF236					23.6	
	ZSCAN5D					23.6	
A	ZSCAN5D					23.6	
A	ZSCAN20					22.8	
A	ZNF34					22.8	
A	ZNF84					22.5	
	ZNF84					22.5	
A	ZNF879					22.5	
A	ZNF23					22.4	
A	ZNF263					22.4	
A	PRDM9					22.3	2
A	ZNF169					22.3	3
A	HKR1					22.3	
A	ZNF560					22.3	
A	ZNF384					22.0	
A	PRDM4					21.9	4
A	ZNF614					21.7	
A	ZNF83					20.8	

1: cell || 2: microtubule cytoskeleton || 3: chromosome || 4: focal adhesion

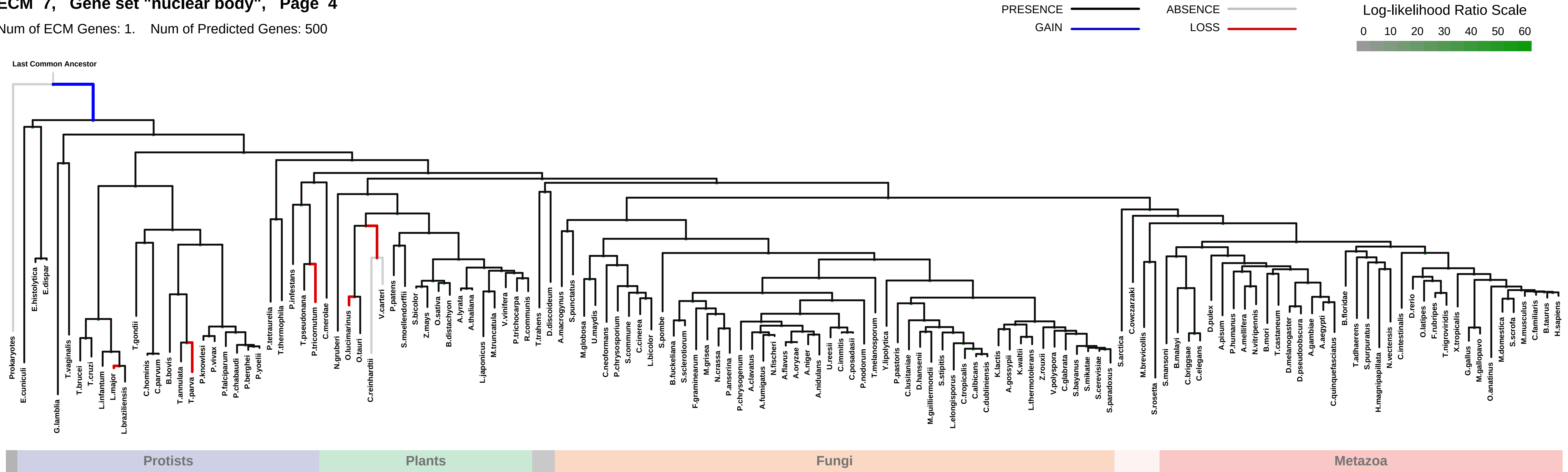
ECM 7, Gene set "nuclear body", Page 3

Num of ECM Genes: 1. Num of Predicted Genes: 500

[illegible]

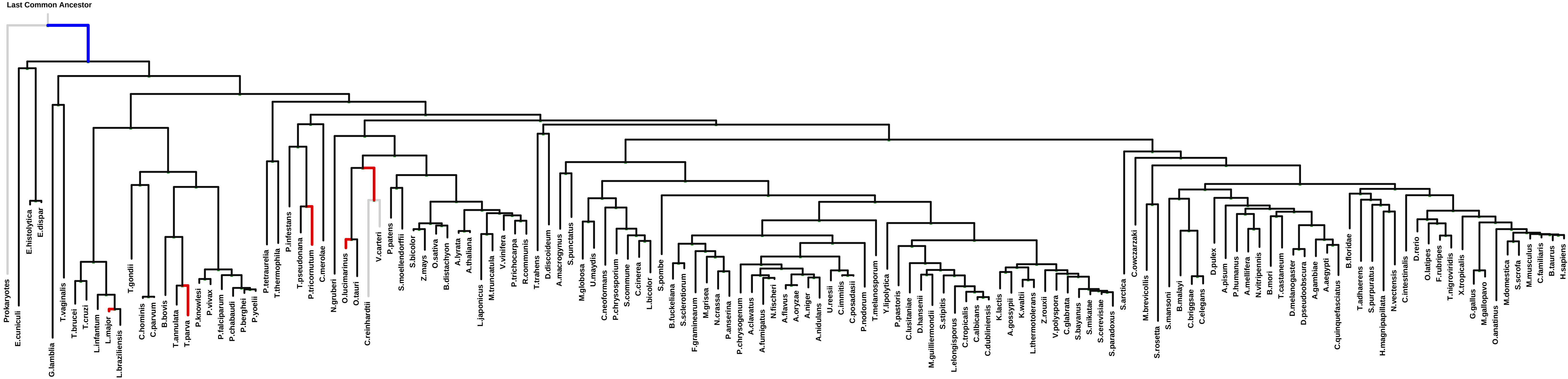
ECM 7, Gene set "nuclear body", Page 4

Num of ECM Genes: 1. Num of Predicted Genes: 500

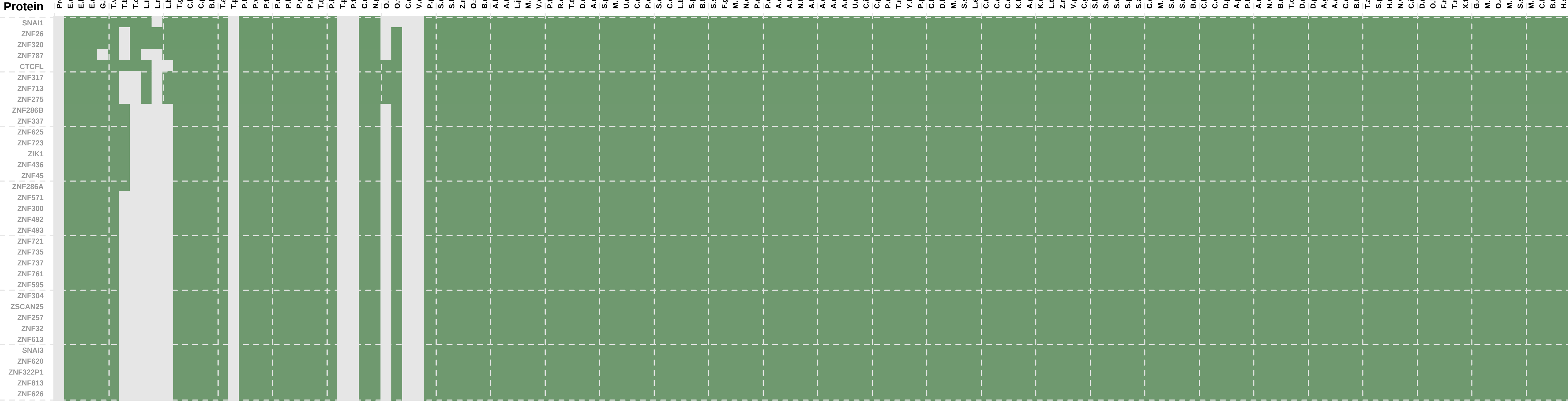
[illegible]

ECM 7, Gene set "nuclear body", Page 5

Num of ECM Genes: 1. Num of Predicted Genes: 500



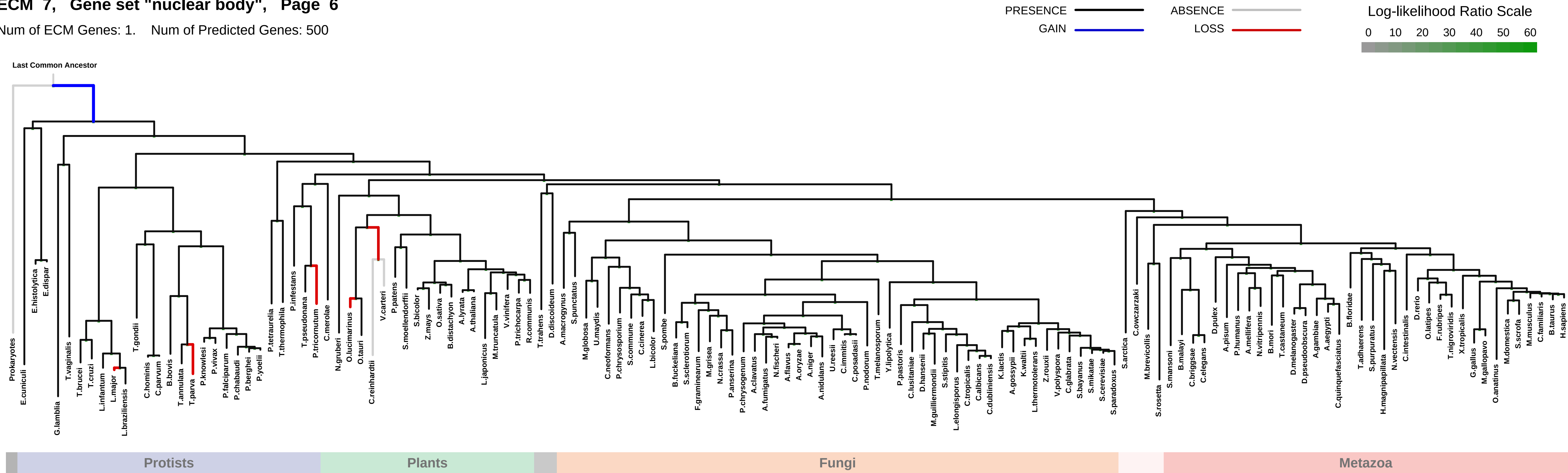
PG



LLR Notes

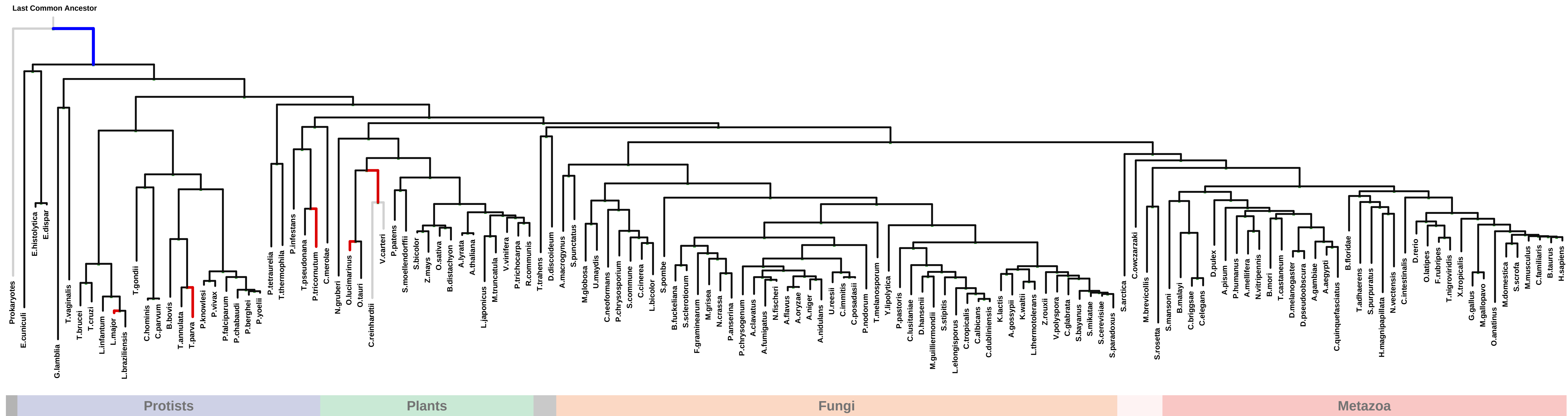
ECM 7, Gene set "nuclear body", Page 6

Num of ECM Genes: 1. Num of Predicted Genes: 500

[illegible]

ECM 7, Gene set "nuclear body", Page 7

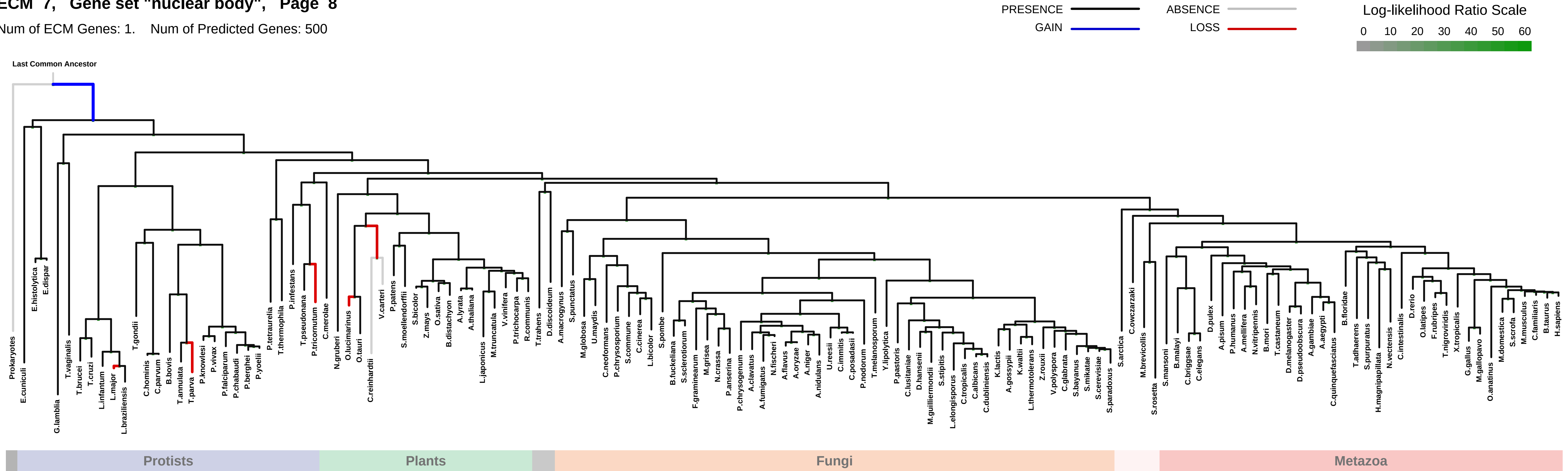
Num of ECM Genes: 1. Num of Predicted Genes: 500

[illegible]

1: focal adhesion || 2: microtubule cytoskeleton || 3: intermediate filament cytoskeleton

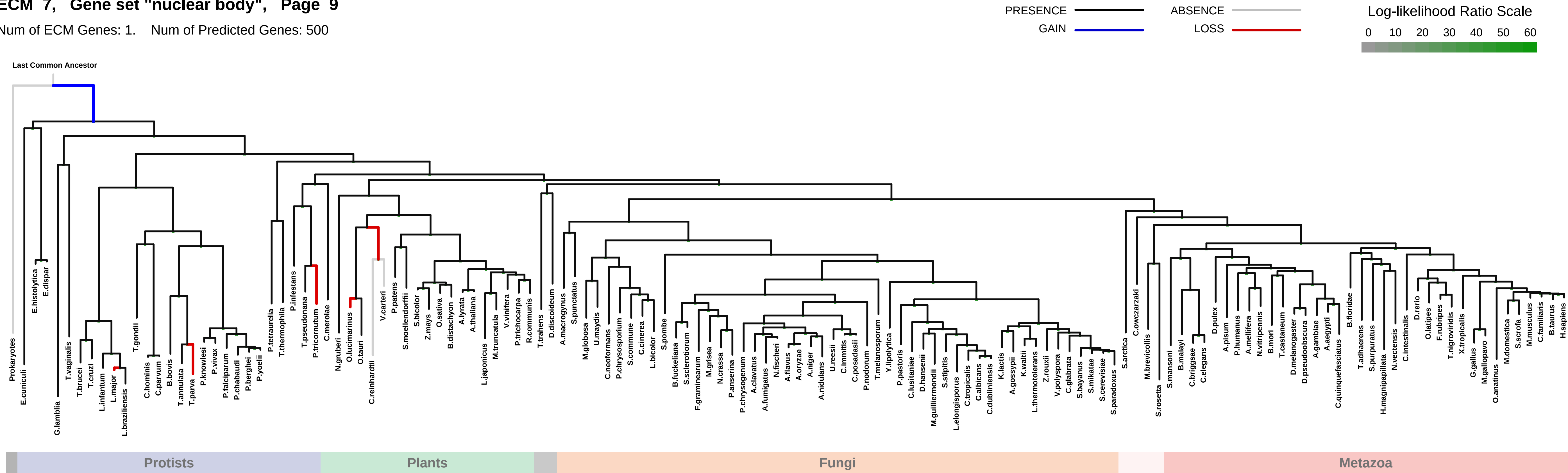
ECM 7, Gene set "nuclear body", Page 8

Num of ECM Genes: 1. Num of Predicted Genes: 500

[illegible]

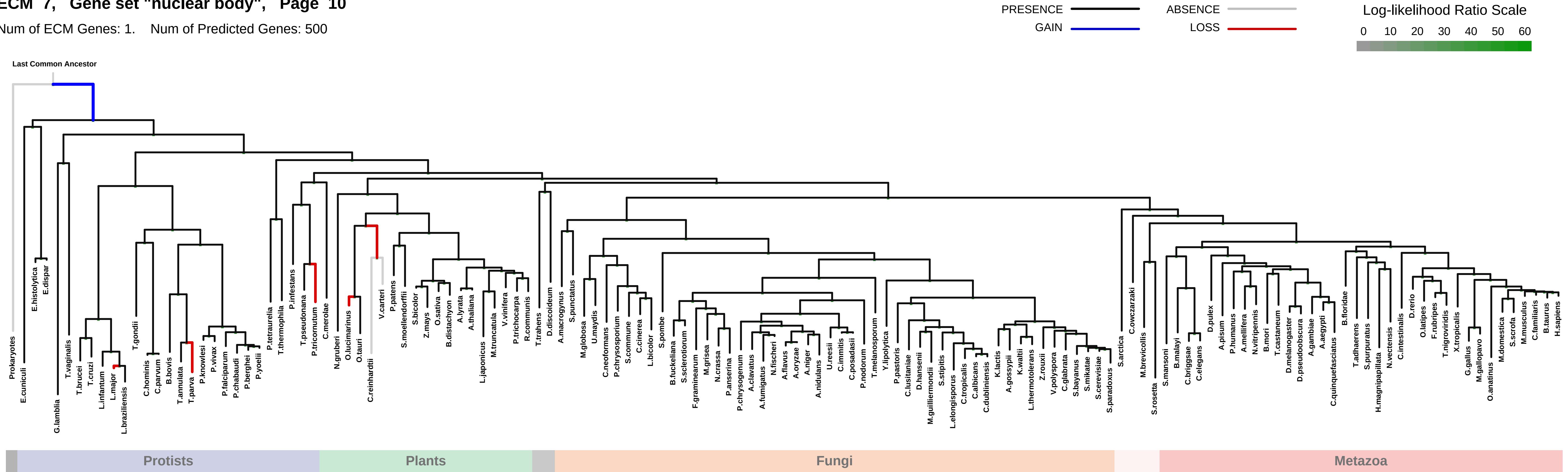
ECM 7, Gene set "nuclear body", Page 9

Num of ECM Genes: 1. Num of Predicted Genes: 500

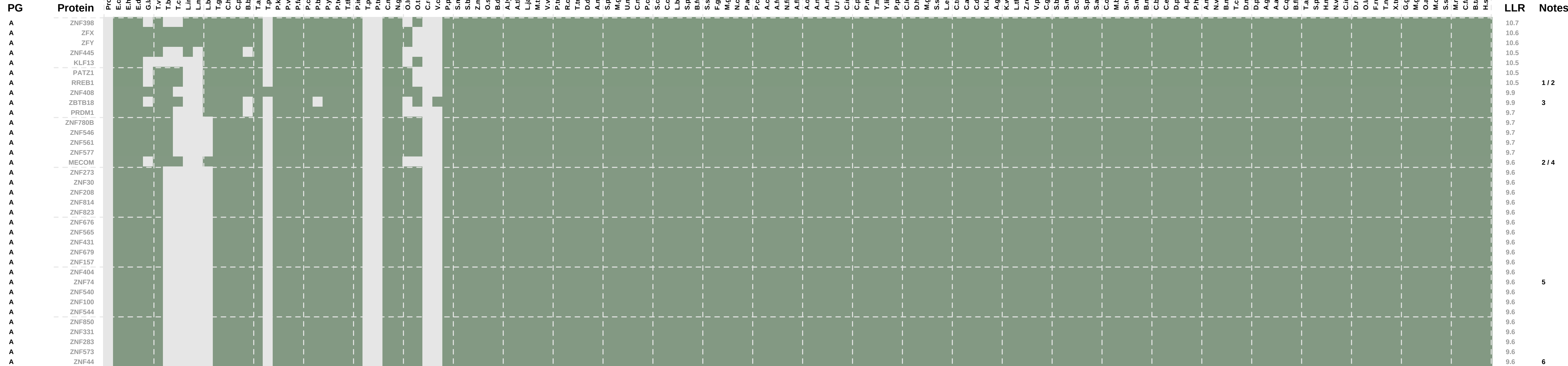
[illegible]

ECM 7, Gene set "nuclear body", Page 10

Num of ECM Genes: 1. Num of Predicted Genes: 500

[illegible]

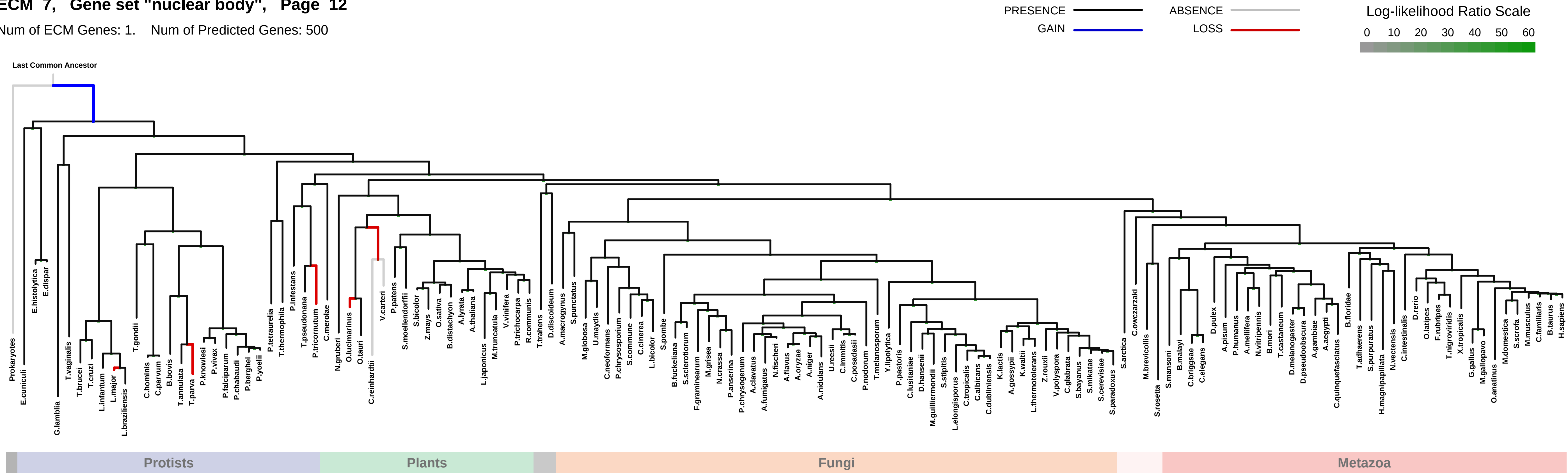
Num of ECM Genes: 1. Num of Predicted Genes: 500



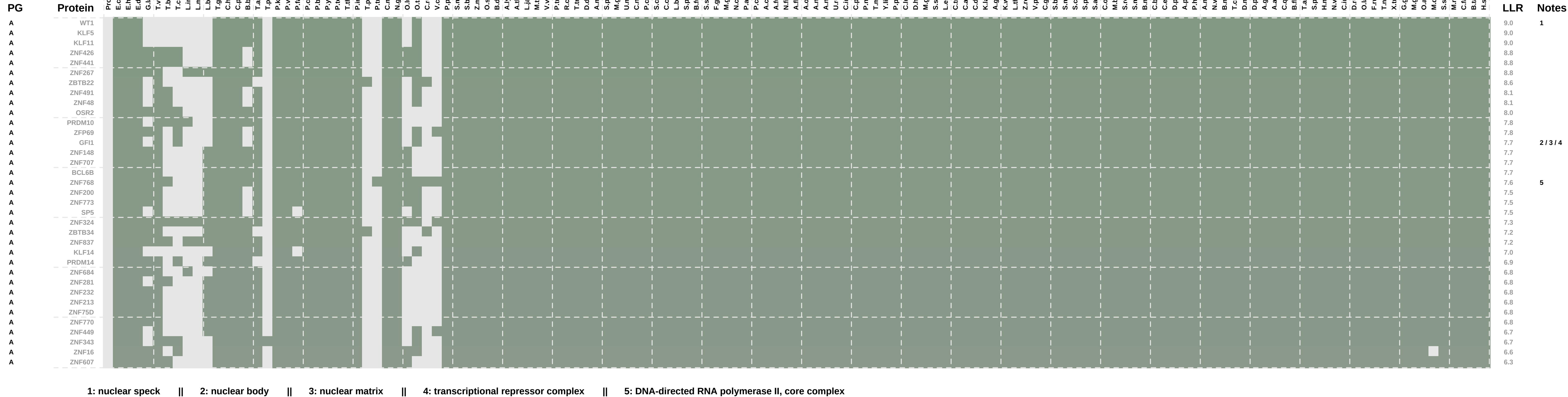
6

ECM 7, Gene set "nuclear body", Page 12

Num of ECM Genes: 1. Num of Predicted Genes: 500

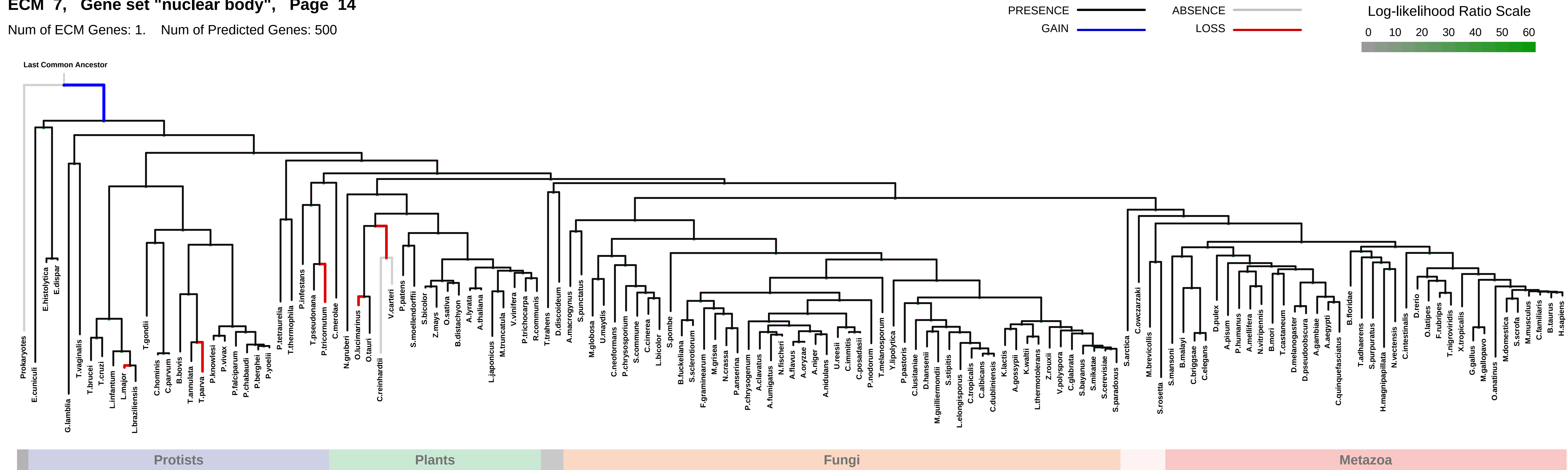
[illegible]

Num of ECM Genes: 1. Num of Predicted Genes: 500



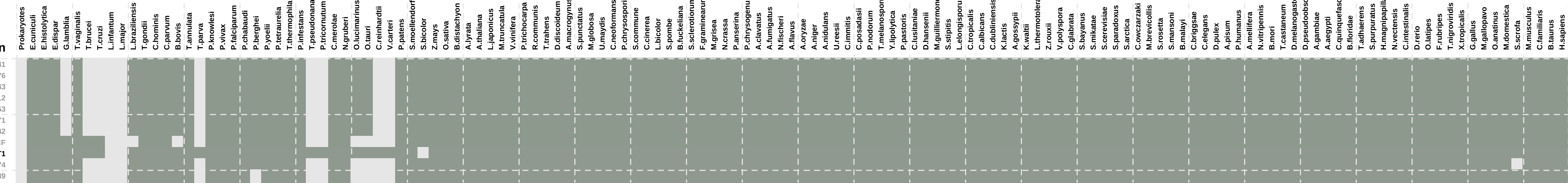
ECM 7, Gene set "nuclear body", Page 14

Num of ECM Genes: 1. Num of Predicted Genes: 500

[illegible]

1: cytoplasmic mRNA processing body || 2: protein-DNA complex

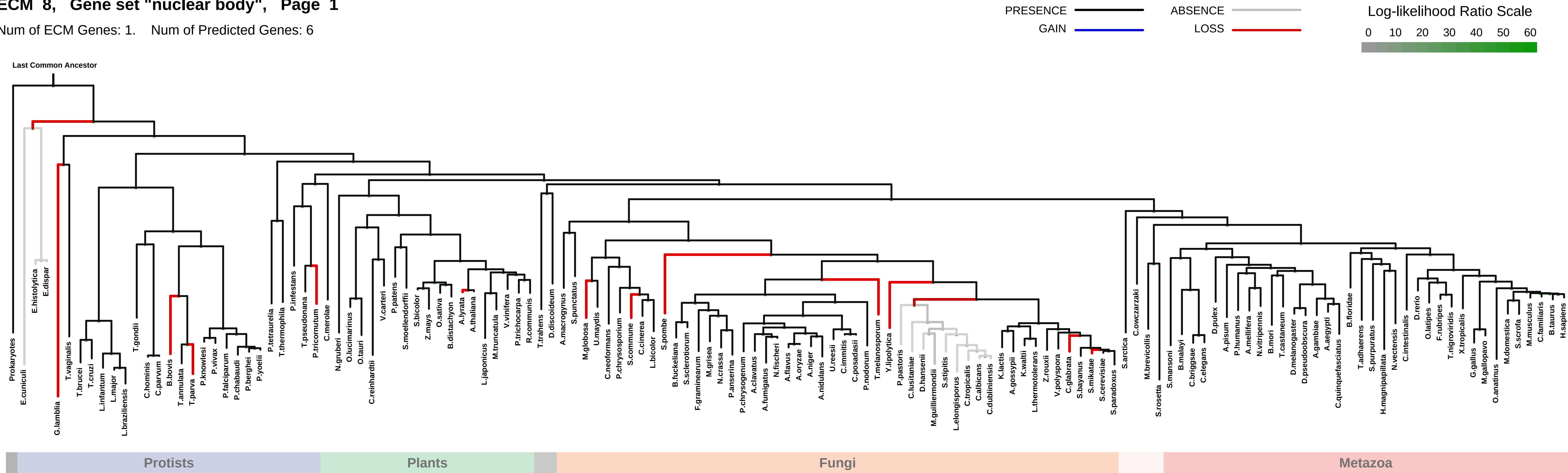
Num of ECM Genes: 1. Num of Predicted Genes: 500



LLR	Notes
4.6	
4.6	
4.6	
4.6	
4.6	
4.6	1 / 2 / 3
4.6	
4.5	4 / 5
4.4	
4.3	
4.2	

ECM 8, Gene set "nuclear body", Page 1

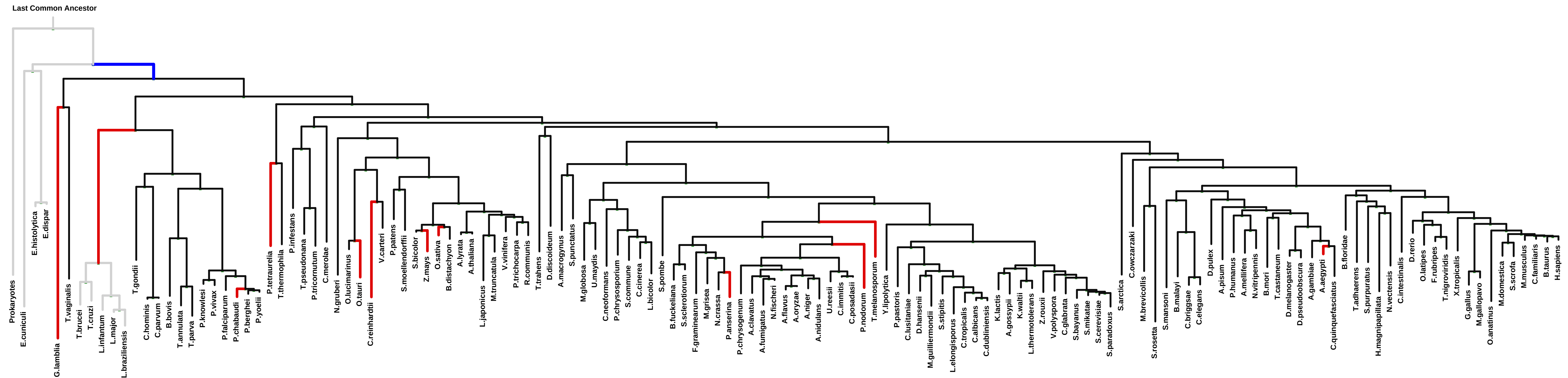
Num of ECM Genes: 1. Num of Predicted Genes: 6

[illegible]

1: nuclear body || 2: senescence-associated heterochromatin focus || 3: voltage-gated potassium channel complex || 4: juxtaparanode region of axon

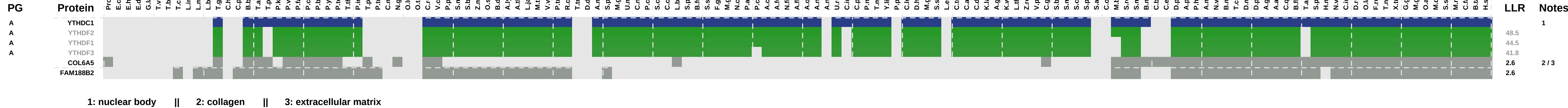
ECM 9, Gene set "nuclear body", Page 1

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

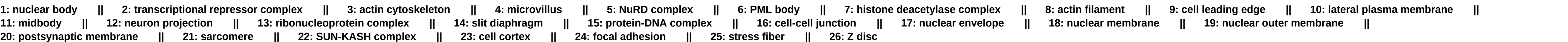
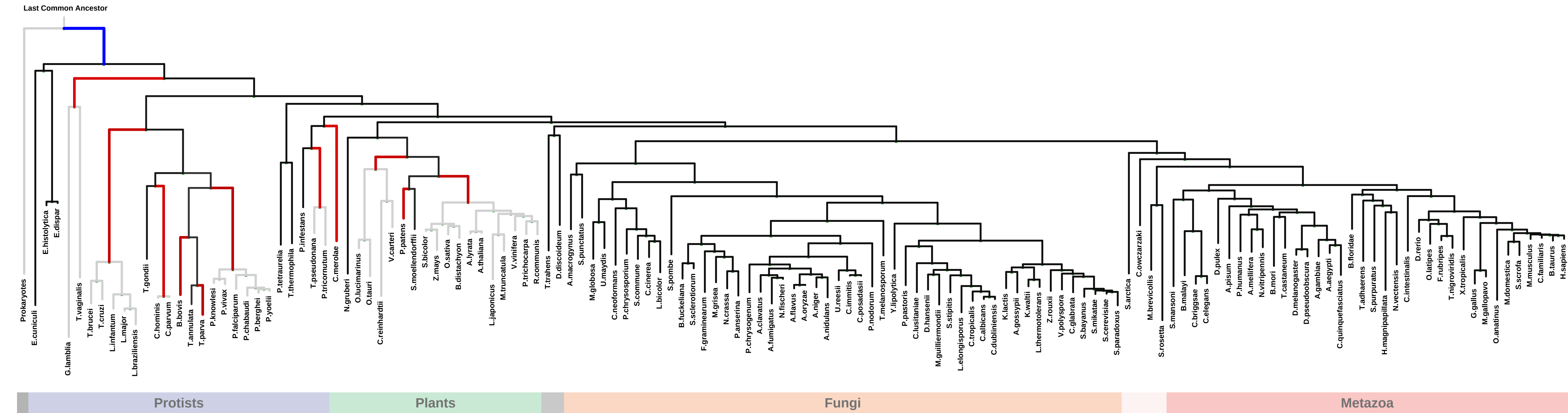
[illegible]

1: nuclear body || 2: transcriptional repressor complex || 3: histone deacetylase complex || 4: nuclear chromatin || 5: nuclear part || 6: Sin3 complex || 7: spindle microtubule

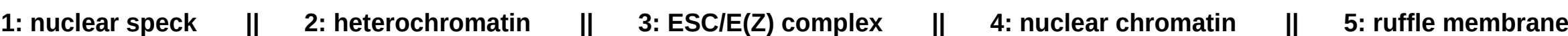
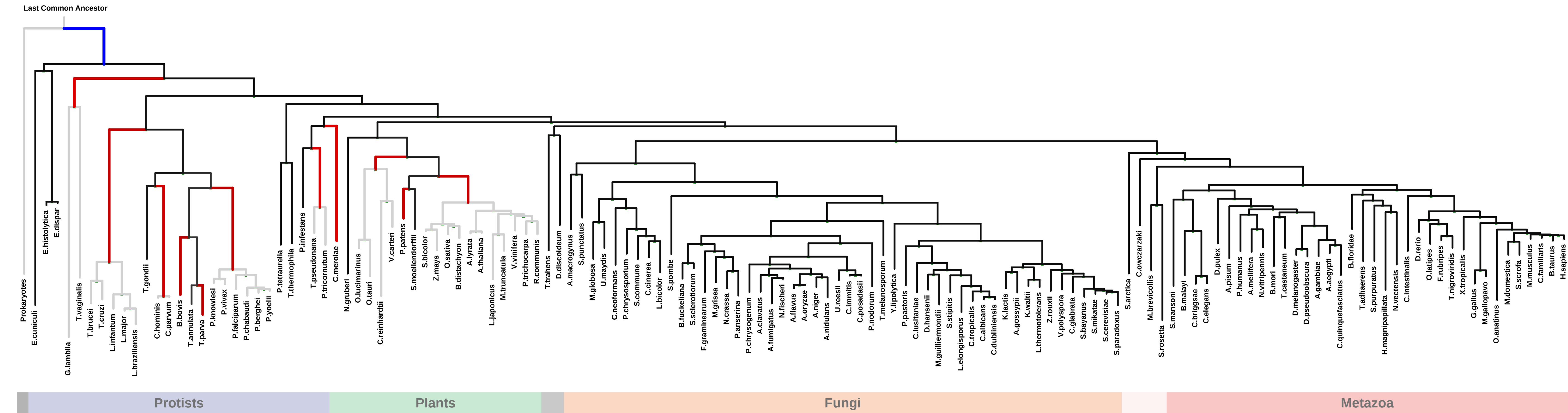
Num of ECM Genes: 1. Num of Predicted Genes: 5



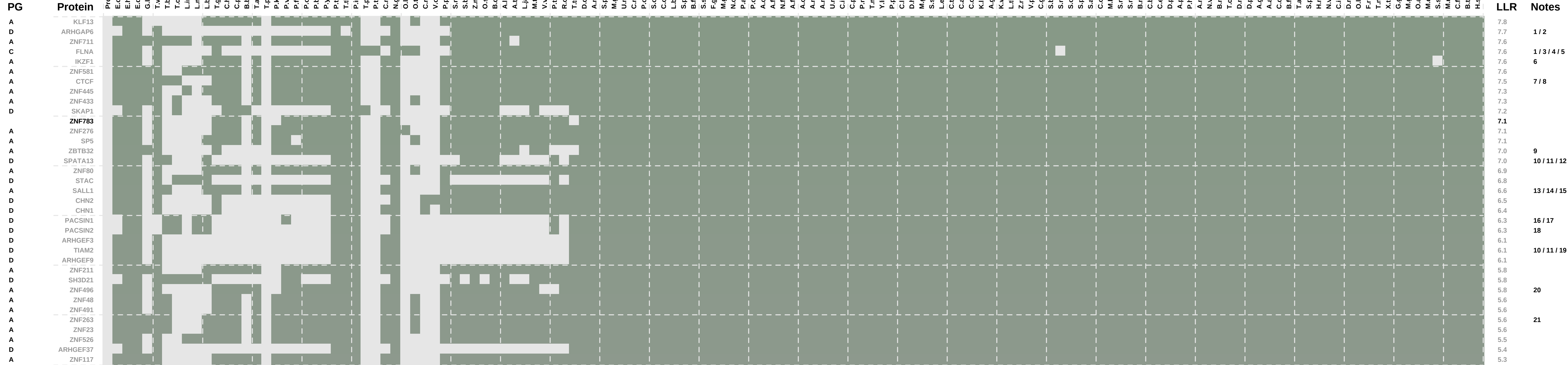
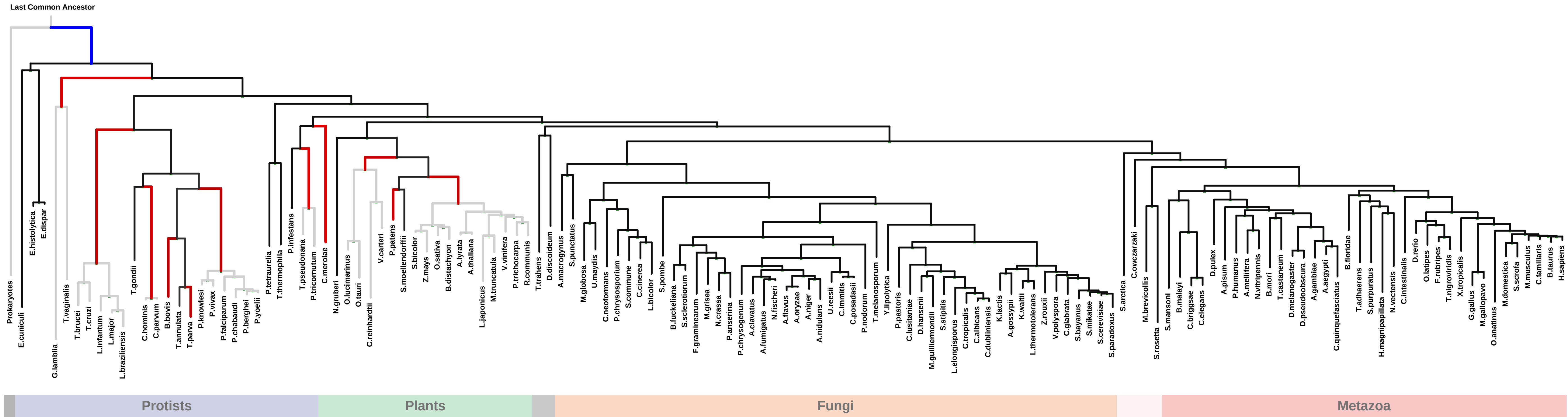
Num of ECM Genes: 1. Num of Predicted Genes: 354



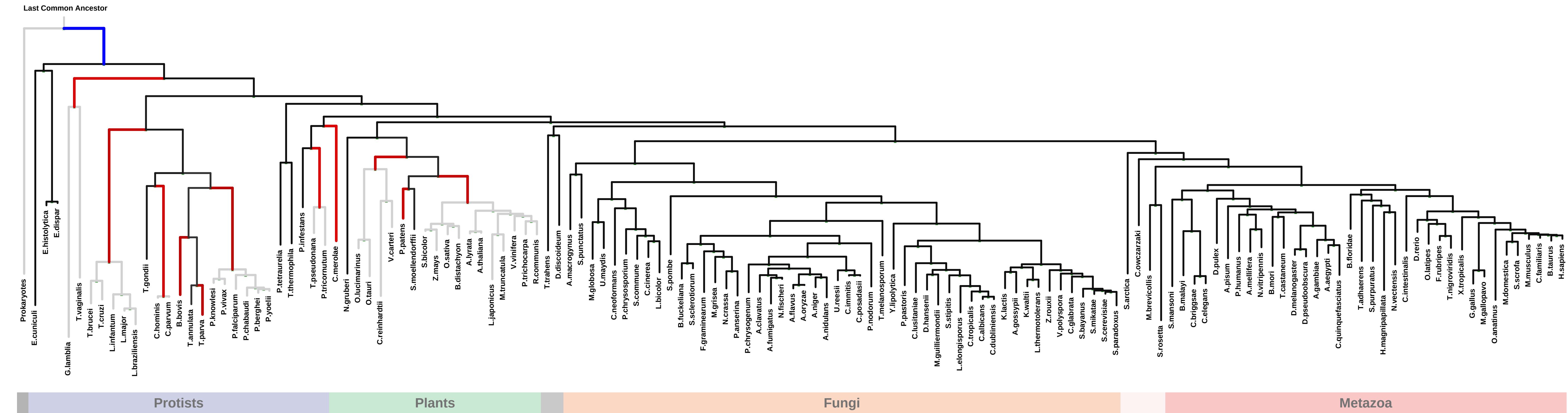
Num of ECM Genes: 1. Num of Predicted Genes: 354



Num of ECM Genes: 1. Num of Predicted Genes: 354

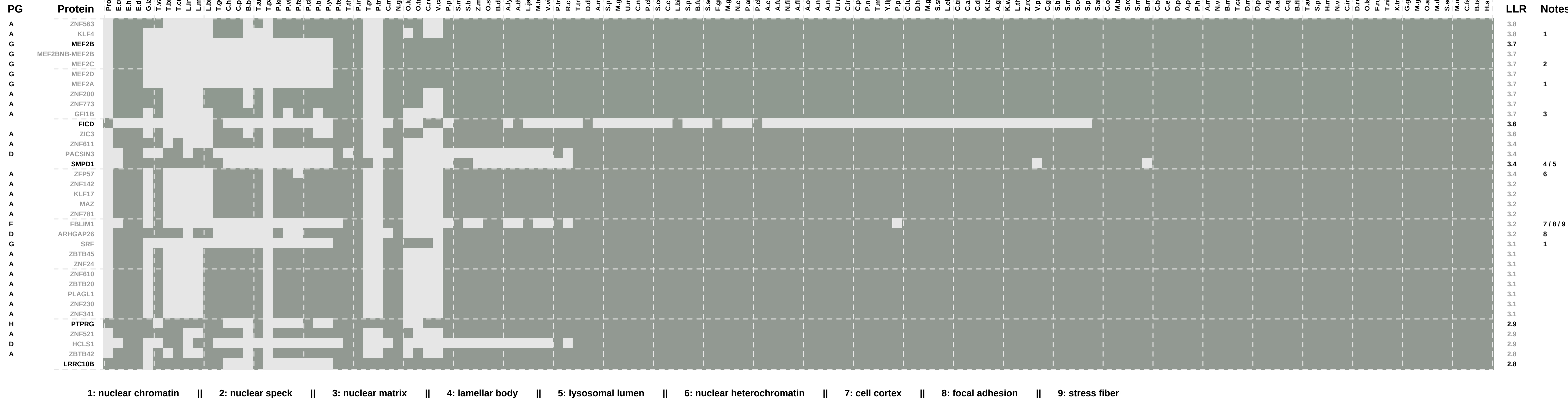


Num of ECM Genes: 1. Num of Predicted Genes: 354

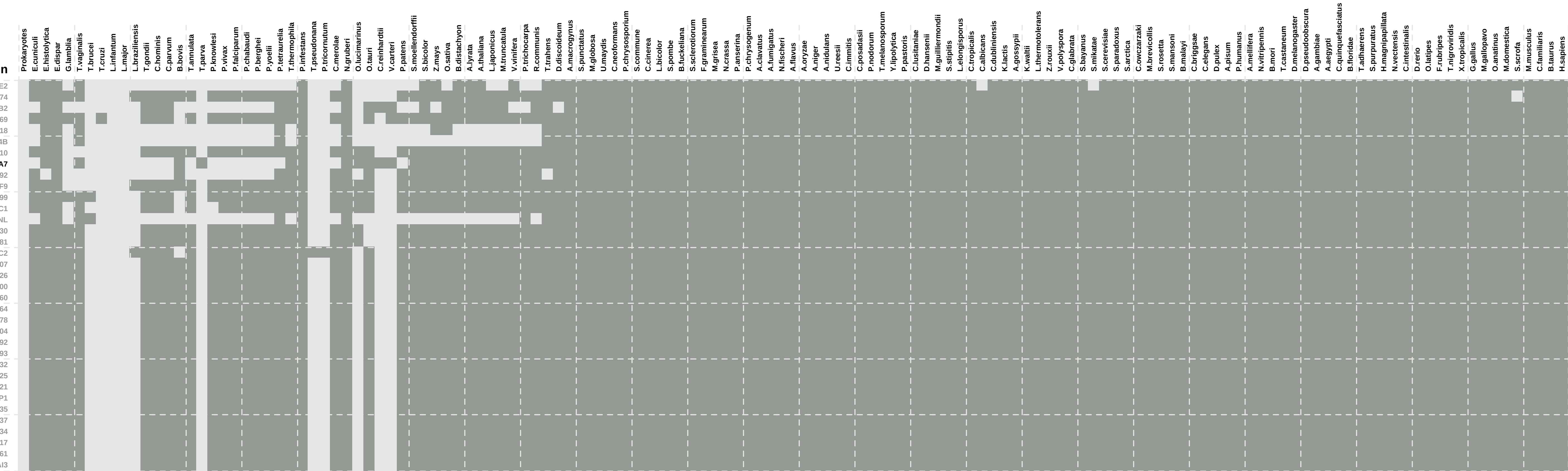


Notes

Num of ECM Genes: 1. Num of Predicted Genes: 354



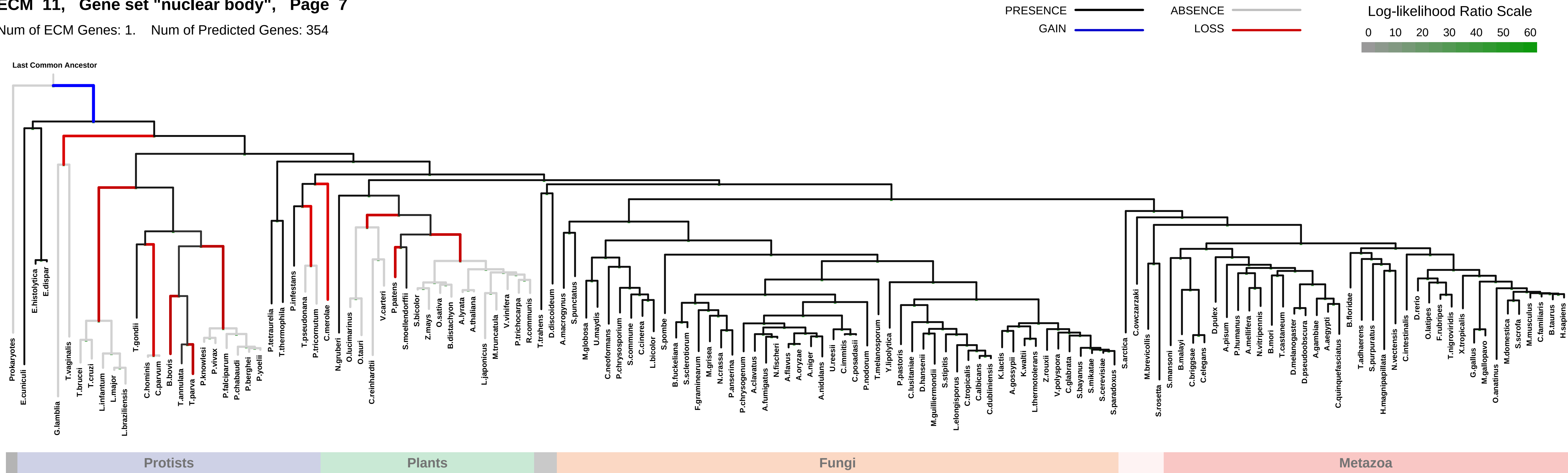
Num of ECM Genes: 1. Num of Predicted Genes: 354



1: filopodium membrane || 2: focal adhesion || 3: lamellipodium membrane || 4: mitochondrial part || 5: nuclear envelope || 6: nuclear lumen || 7: nuclear membrane || 8: nuclear outer membrane || 9: sarcoplasmic reticulum || 10: sarcoplasmic reticulum membrane || 11: SUN-KASH complex || 12: Z disc || 13: cell cortex || 14: lamellipodium || 15: postsynaptic density || 16: ruffle

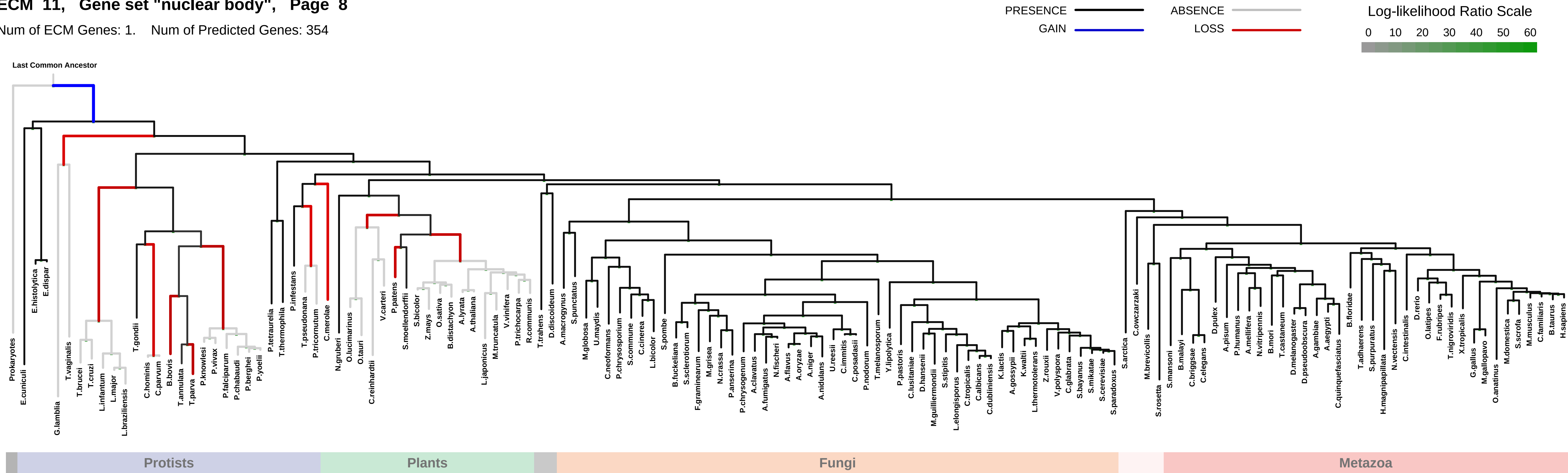
ECM 11, Gene set "nuclear body", Page 7

Num of ECM Genes: 1. Num of Predicted Genes: 354

[illegible]

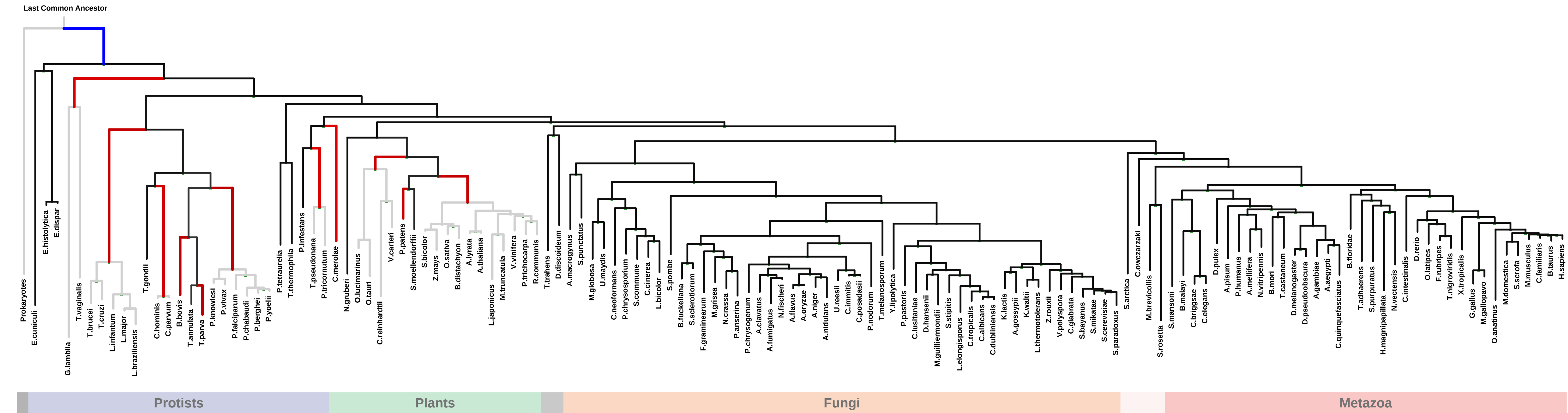
ECM 11, Gene set "nuclear body", Page 8

Num of ECM Genes: 1. Num of Predicted Genes: 354

[illegible]

1: transcriptional repressor complex || 2: nuclear matrix

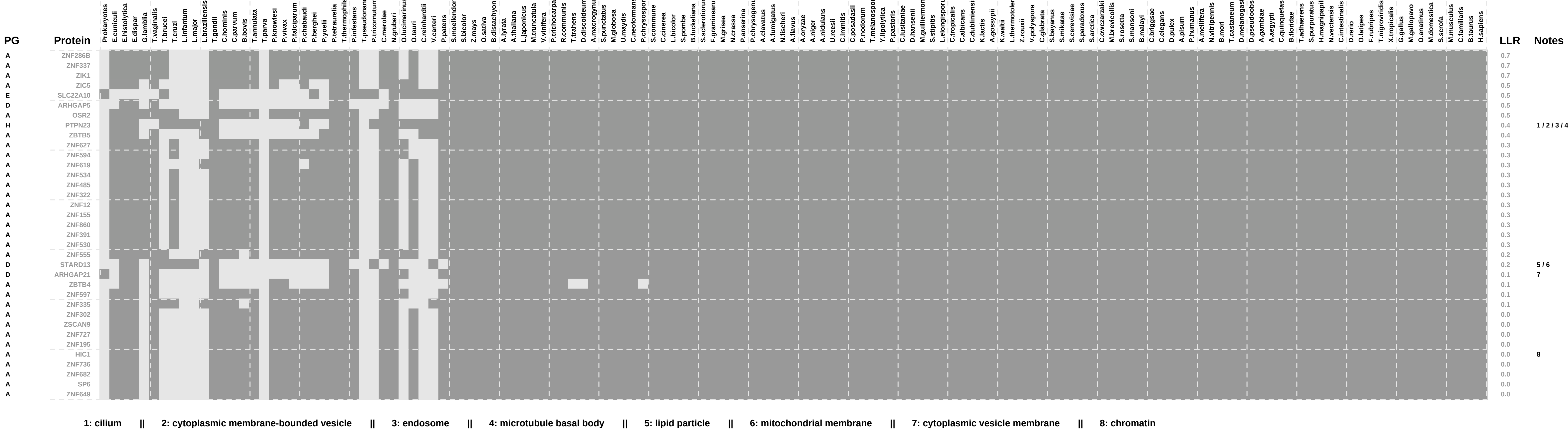
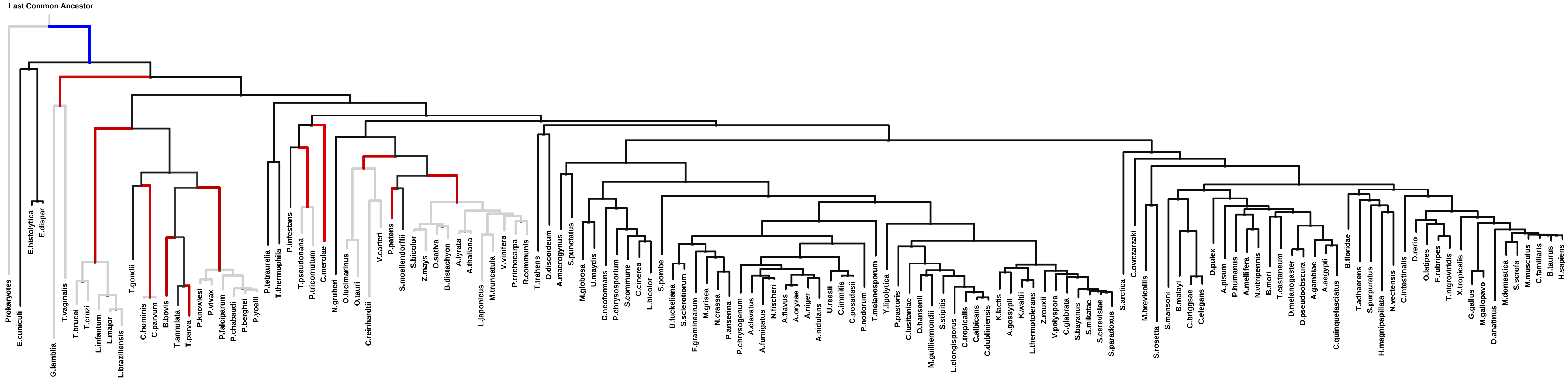
Num of ECM Genes: 1. Num of Predicted Genes: 354



1: endosome || 2: growth cone || 3: cytoplasmic membrane-bounded vesicle || 4: actin cytoskeleton || 5: cuticular plate || 6: intrinsic to internal side of plasma membrane || 7: spectrin || 8: spectrin-associated cytoskeleton || 9: costamere || 10: sarcolemma || 11: Z disc

ECM 11, Gene set "nuclear body", Page 10

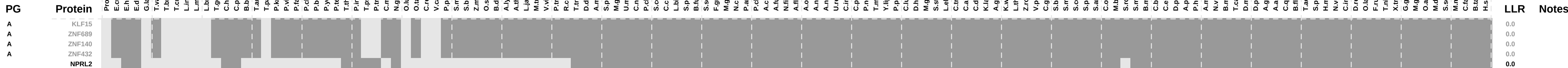
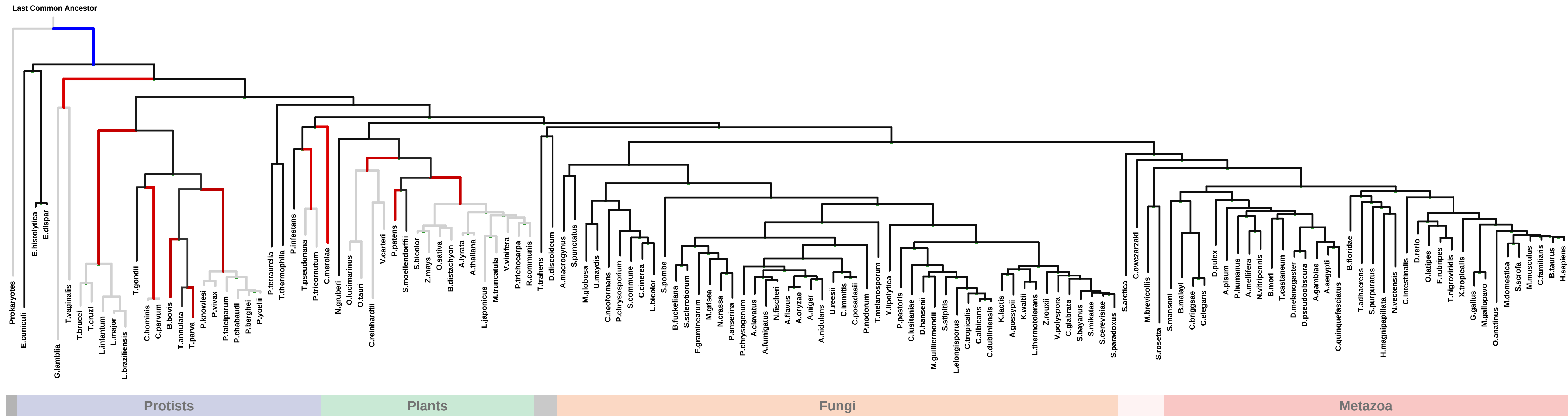
Num of ECM Genes: 1. Num of Predicted Genes: 354



1: cilium 2: cytoplasmic membrane-bounded vesicle 3: endosome 4: microtubule basal body 5: lipid particle 6: mitochondrial membrane 7: cytoplasmic vesicle membrane 8: chromatin

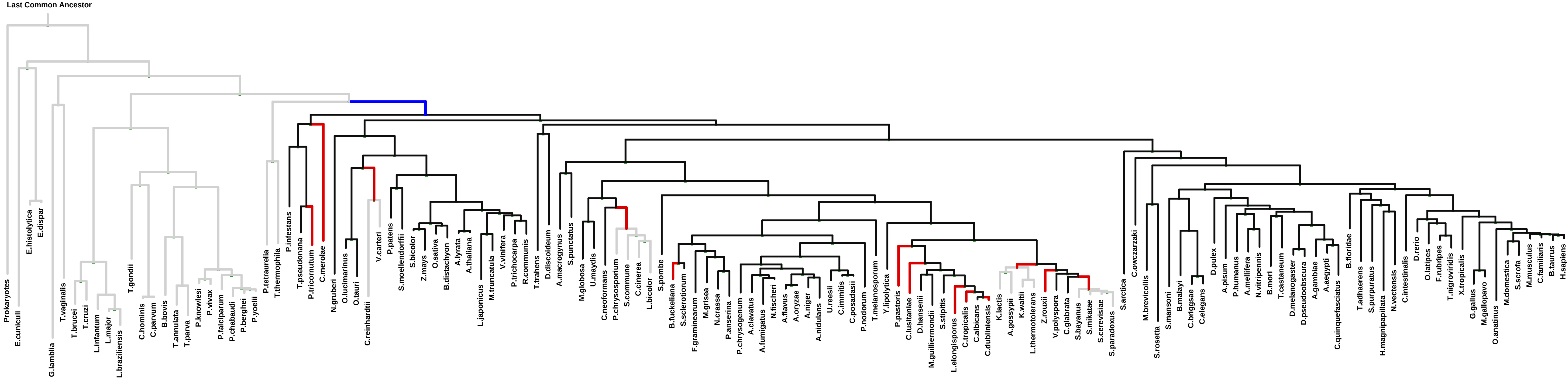
ECM 11, Gene set "nuclear body", Page 11

Num of ECM Genes: 1. Num of Predicted Genes: 354



ECM 12, Gene set "nuclear body", Page 1

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



PG

Protein



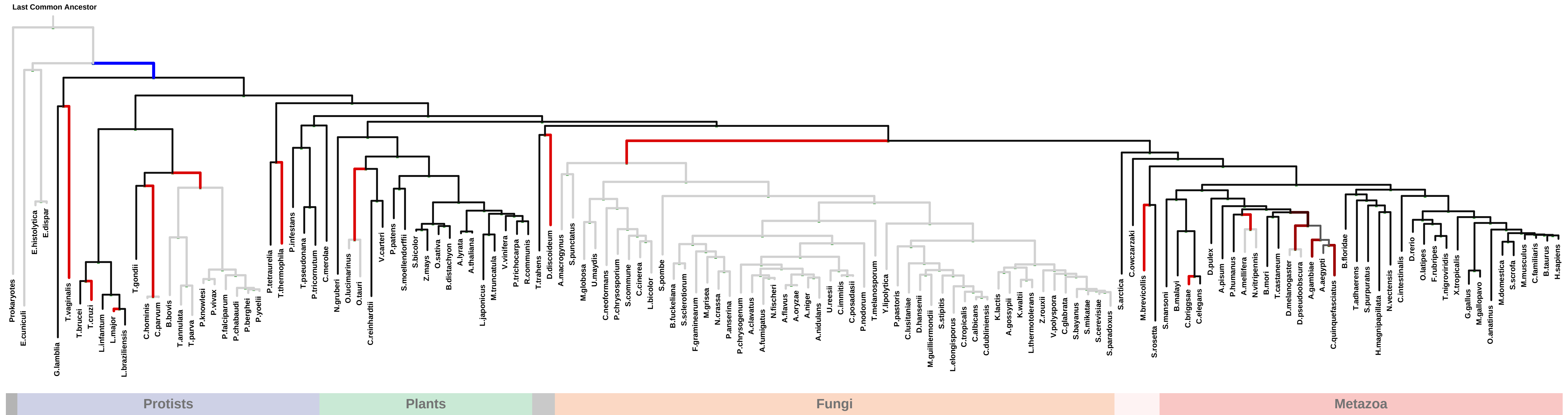
LLR

Notes

1: integral to endoplasmic reticulum membrane || 2: nuclear body

ECM 13, Gene set "nuclear body", Page 1

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



Protein

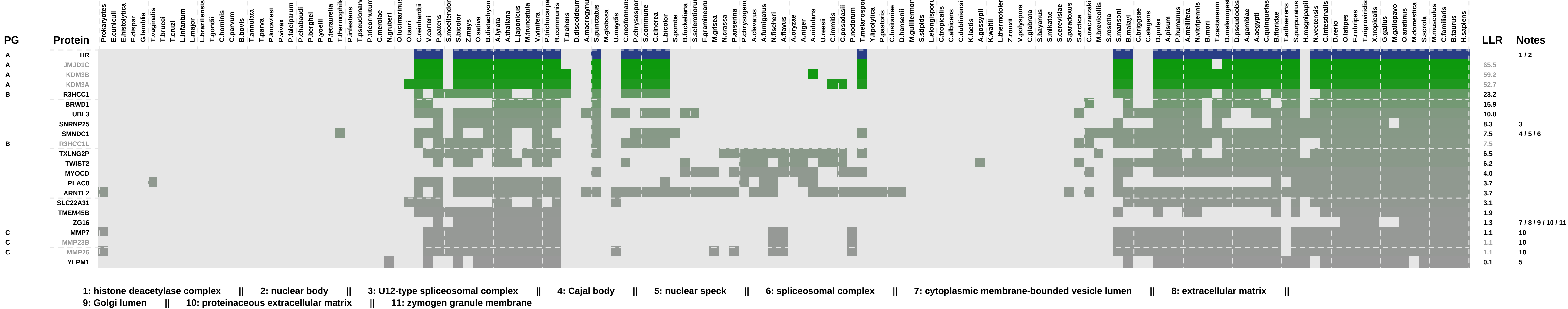
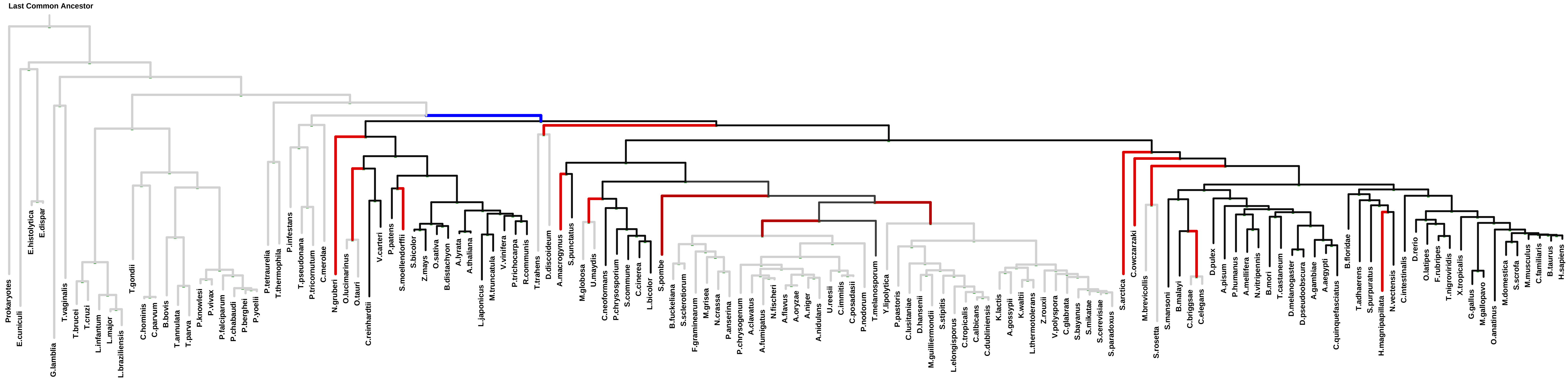


1: endocytic vesicle membrane || 2: nuclear body

LLR Notes

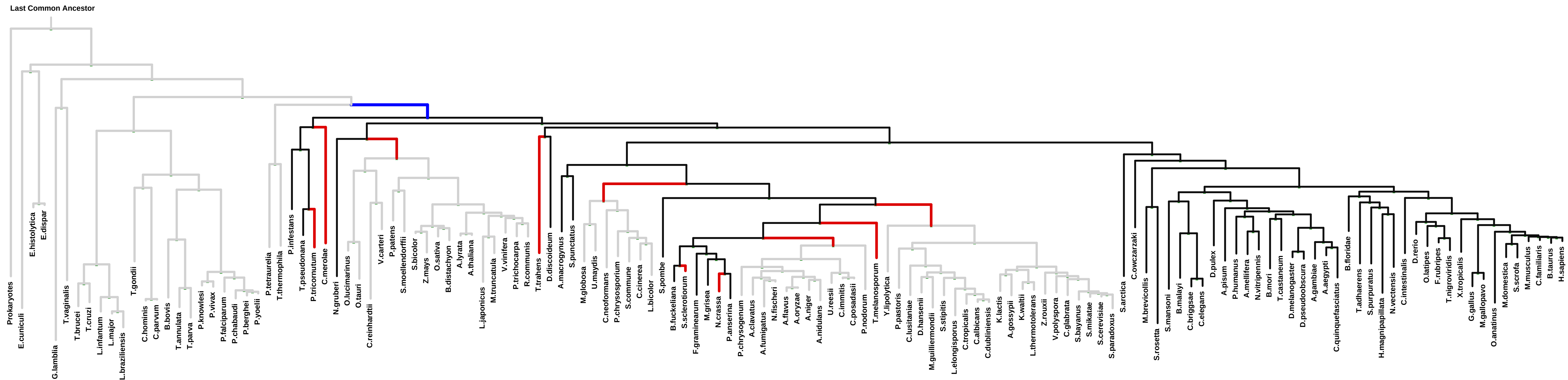
ECM 14, Gene set "nuclear body", Page 1

Num of ECM Genes: 1. Num of Predicted Genes: 21



ECM 15, Gene set "nuclear body", Page 1

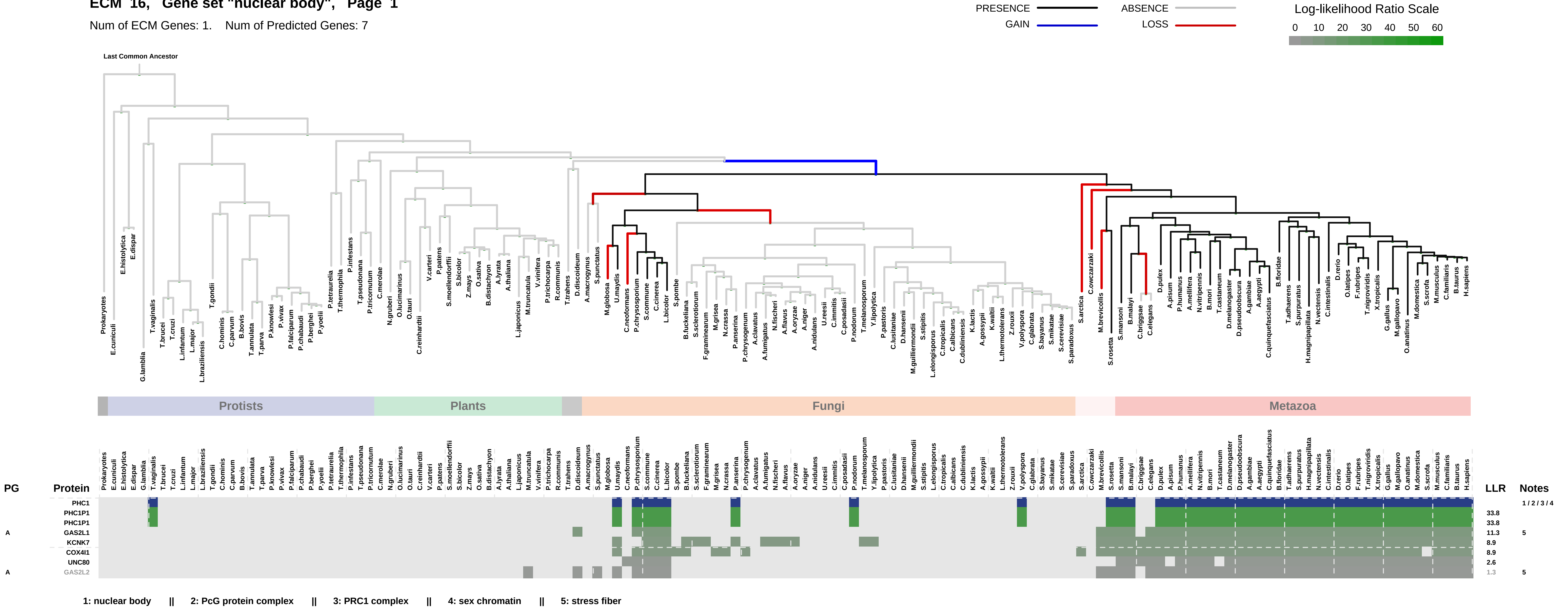
Num of ECM Genes: 1. Num of Predicted Genes: 8

[illegible]

1: dendrite || 2: dendritic spine || 3: intermediate filament cytoskeleton || 4: nuclear body || 5: PML body || 6: postsynaptic density || 7: postsynaptic membrane || 8: spindle || 9: spindle pole || 10: beta-catenin destruction complex || 11: cell cortex || 12: cell periphery || 13: cytoplasmic membrane-bounded vesicle || 14: cytoplasmic microtubule || 15: cytoplasmic vesicle || 16: lateral plasma membrane || 17: condensed nuclear chromosome || 18: heterotrimeric G-protein complex

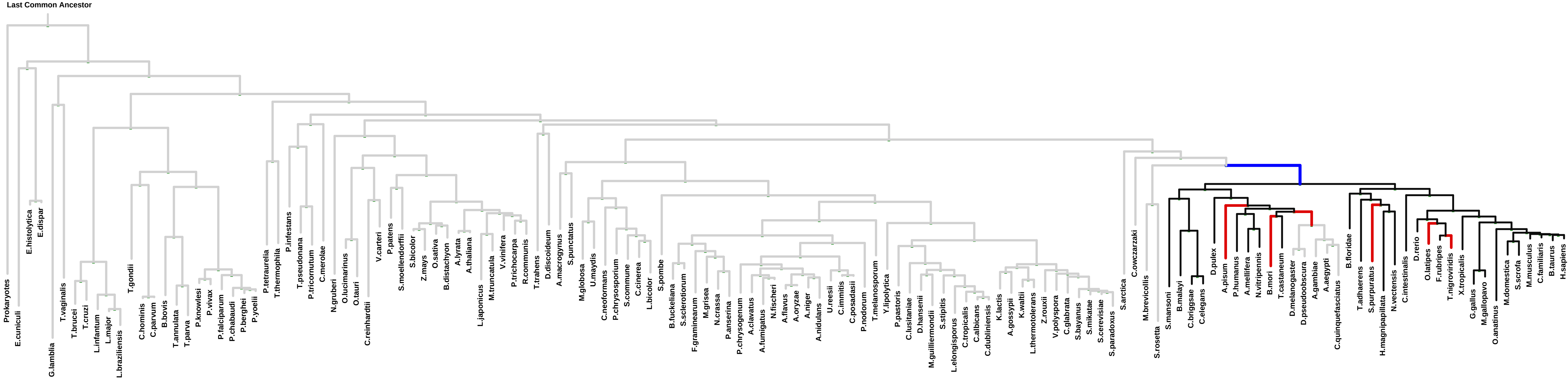
ECM 16, Gene set "nuclear body", Page 1

Num of ECM Genes: 1. Num of Predicted Genes: 7



ECM 17, Gene set "nuclear body", Page 1

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



PG



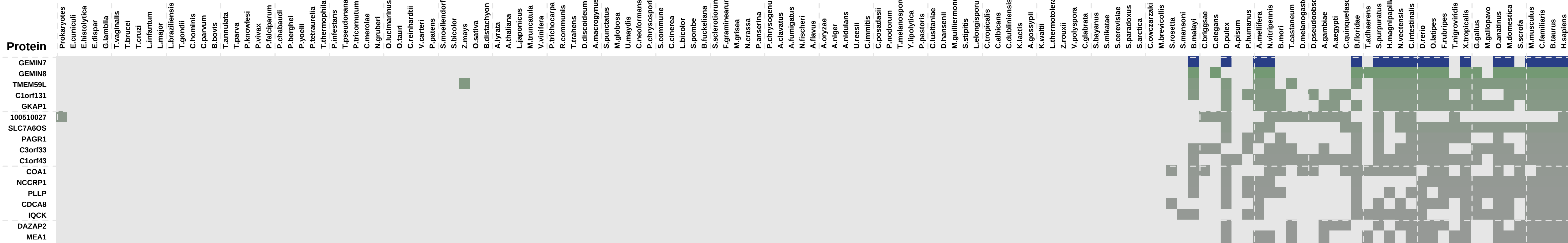
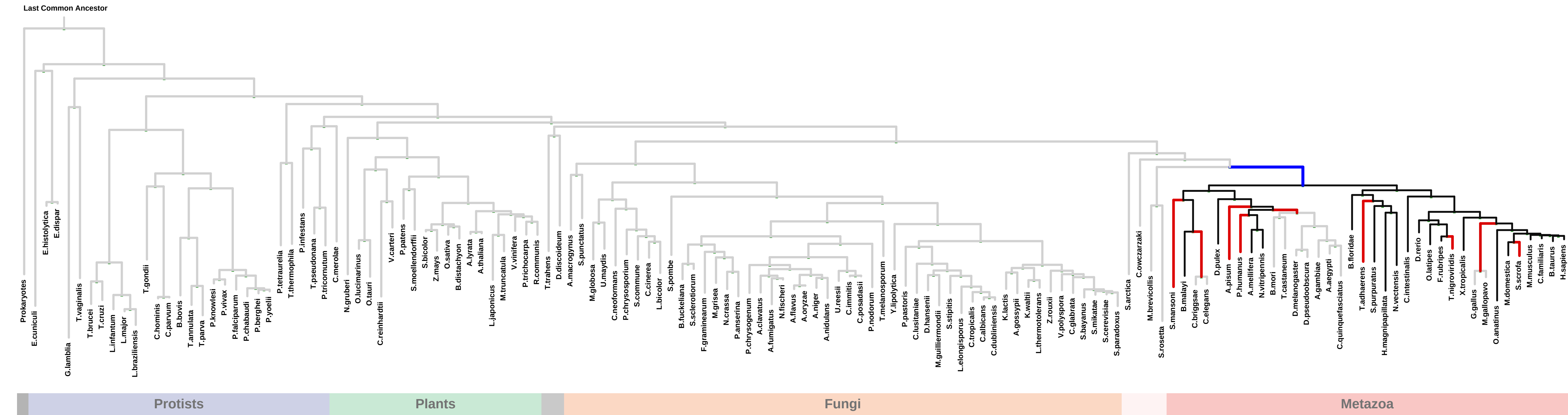
1: Cajal body || 2: nuclear body || 3: spliceosomal complex || 4: compact myelin || 5: membrane raft

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



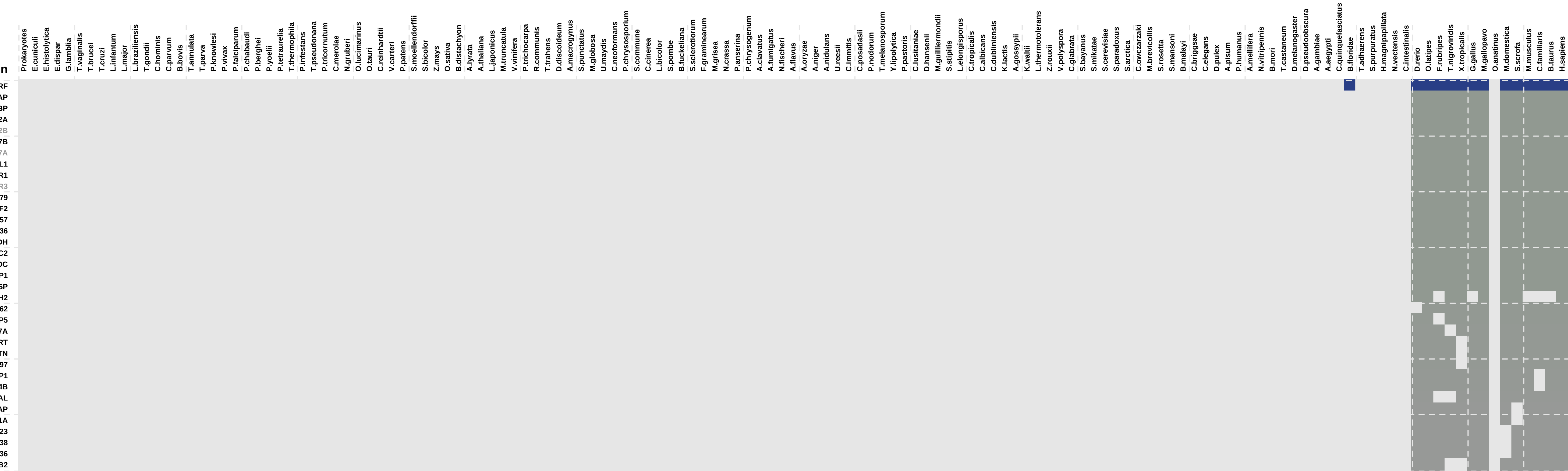
1: chromatin || 2: chromatin assembly complex || 3: nuclear body || 4: nuclear chromatin || 5: nuclear matrix || 6: PML body || 7: replication fork || 8: transcription factor TFIID complex || 9: integral to mitochondrial inner membrane

Num of ECM Genes: 1. Num of Predicted Genes: 16

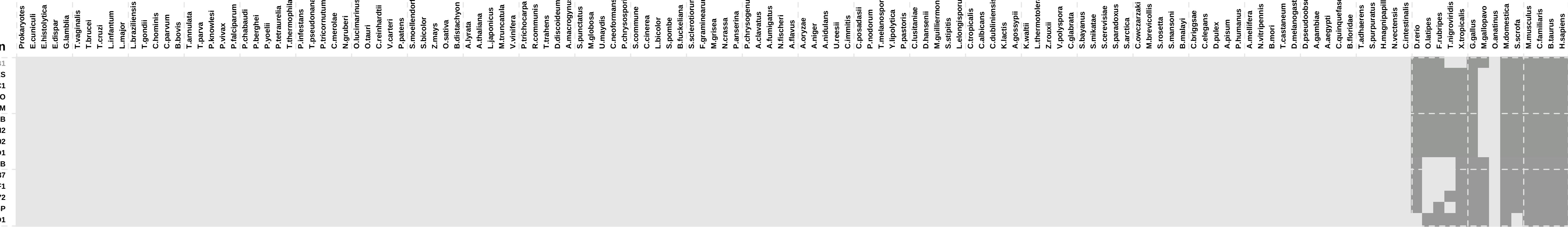


1: Cajal body || 2: nuclear body || 3: SMN complex || 4: spliceosomal complex || 5: histone methyltransferase complex || 6: mitochondrial membrane || 7: compact myelin || 8: membrane raft || 9: chromosome passenger complex || 10: chromosome, centromeric region || 11: half bridge of spindle pole body

Num of ECM Genes: 1. Num of Predicted Genes: 49

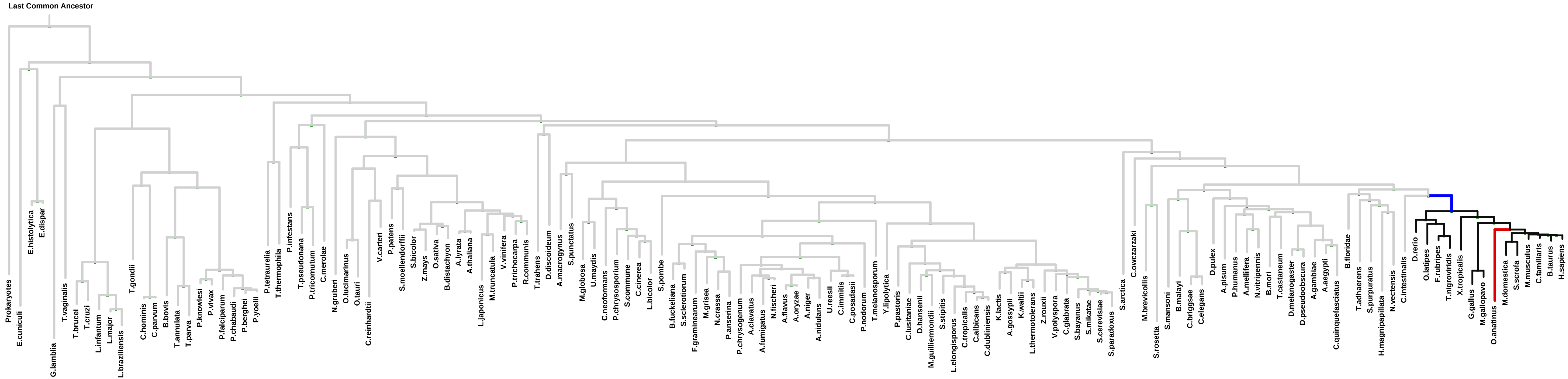


Num of ECM Genes: 1. Num of Predicted Genes: 49



ECM 22, Gene set "nuclear body", Page 1

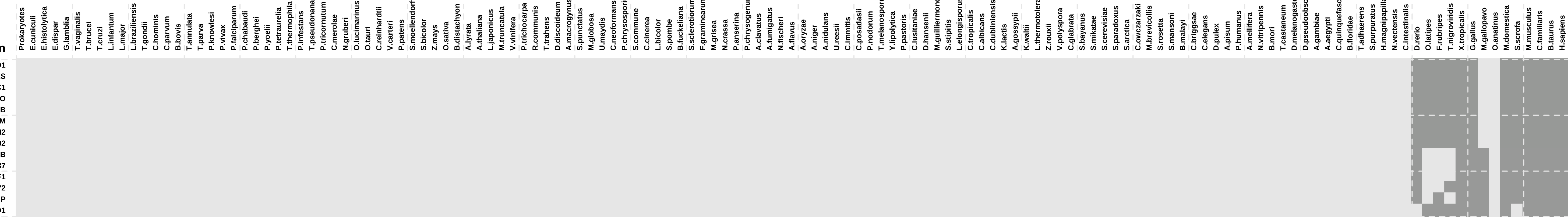
Num of ECM Genes: 1. Num of Predicted Genes: 48



PG	Protein	LLR	Notes
A	MTDH	3.5	1 / 2 / 3 / 4
	BGLAP	3.5	5 / 6 / 7
	BRI3BP	3.5	8
	FAM222A	3.5	
	FAM222B	3.5	
	FAM217B	3.5	
	FAM217A	3.5	
	CYTL1	3.5	
	AMER1	3.5	
	AMER3	3.5	
B	GPR179	3.5	
	INS-IGF2	3.5	
	LOC100132057	3.5	
	LOC100132336	3.5	
	NDUFC2	3.5	9
	PNOC	3.5	
	SETBP1	3.5	
	THRSP	3.5	
	GNRH2	3.3	
	GPR162	2.7	
C	MFAP5	2.4	10
	TMEM87A	2.1	
	HCRT	2.1	7 / 11 / 12
	VRTN	2.1	
	100510697	2.1	
	XIRP1	1.7	13
	SCN4B	1.7	14 / 15
	GAL	1.3	11
	REFXAP	1.0	
	CDK11A	1.0	
D	LOC441736	0.8	
	FLJ38723	0.8	
	LOC390638	0.8	
	PLGLB2	0.7	
	PLGLB1	0.7	
		0.7	
		0.7	
		0.7	
		0.7	
		0.7	

1: intercellular canaliculus || 2: nuclear body || 3: nuclear membrane || 4: tight junction || 5: cell projection || 6: membrane-bounded vesicle || 7: rough endoplasmic reticulum || 8: mitochondrial outer membrane || 9: mitochondrial respiratory chain complex I ||
10: microfibril || 11: secretory granule || 12: synaptic vesicle || 13: fascia adherens || 14: intercalated disc || 15: voltage-gated sodium channel complex

Num of ECM Genes: 1. Num of Predicted Genes: 48



LLR	Notes
0.7	1 / 2
0.7	3 / 4
0.7	
0.7	
0.7	
0.7	
0.7	
0.6	
0.6	
0.6	5
0.5	
0.3	6 / 7
0.2	8