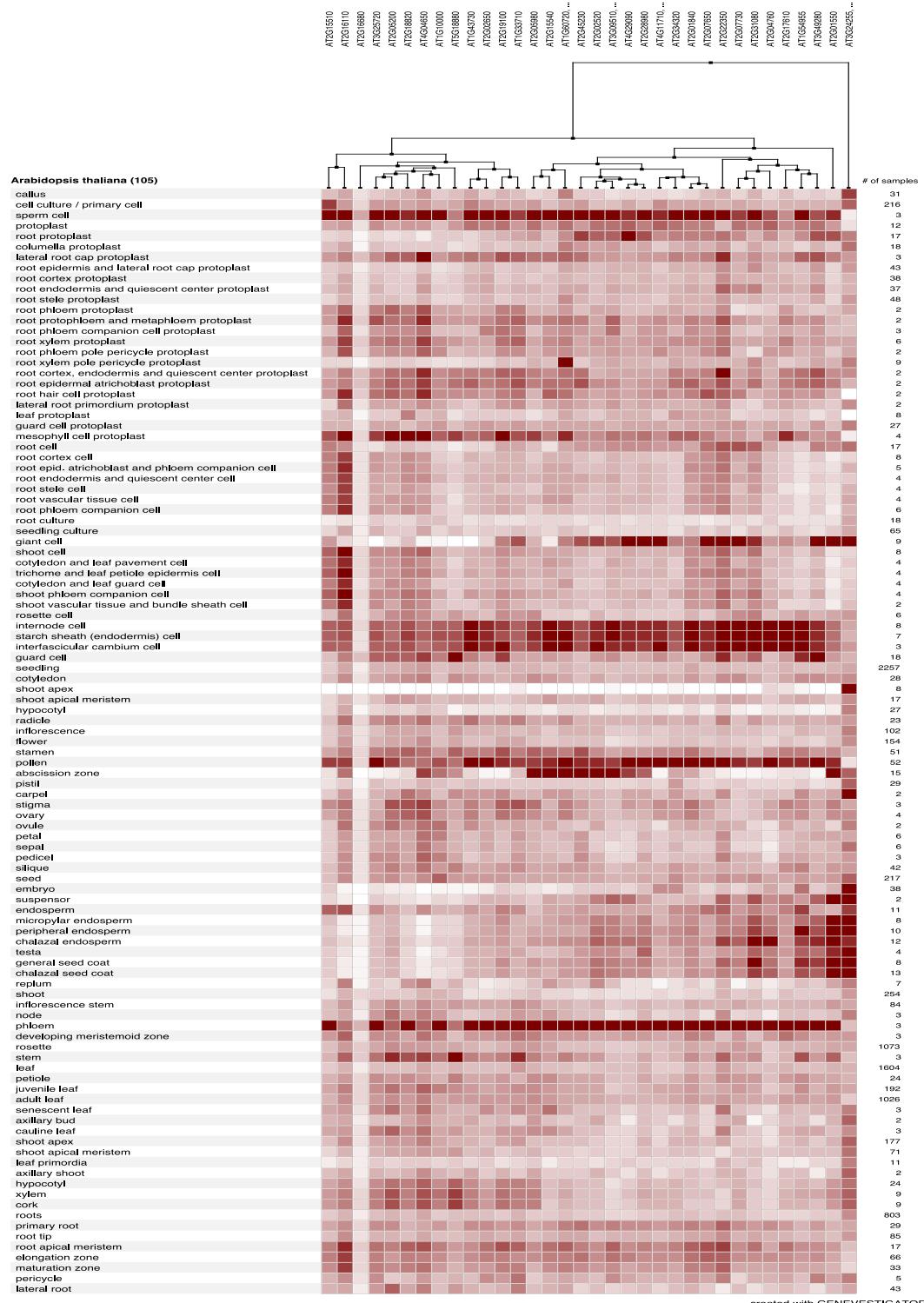


Supplementary materials to Galvan-Gordillo et al., Biología 71, 11, 2016.

Supplementary Table 1. GO annotations of putative endogenized genes from *Arabidopsis*. Expression pattern, subcellular localization and biological roles of the putative endogenized *Arabidopsis* RVT-Znf genes are shown, based on TAIR (<https://www.arabidopsis.org/tools/bulk/go/>) and Genevestigator databases (<https://genevestigator.com/gv/>).

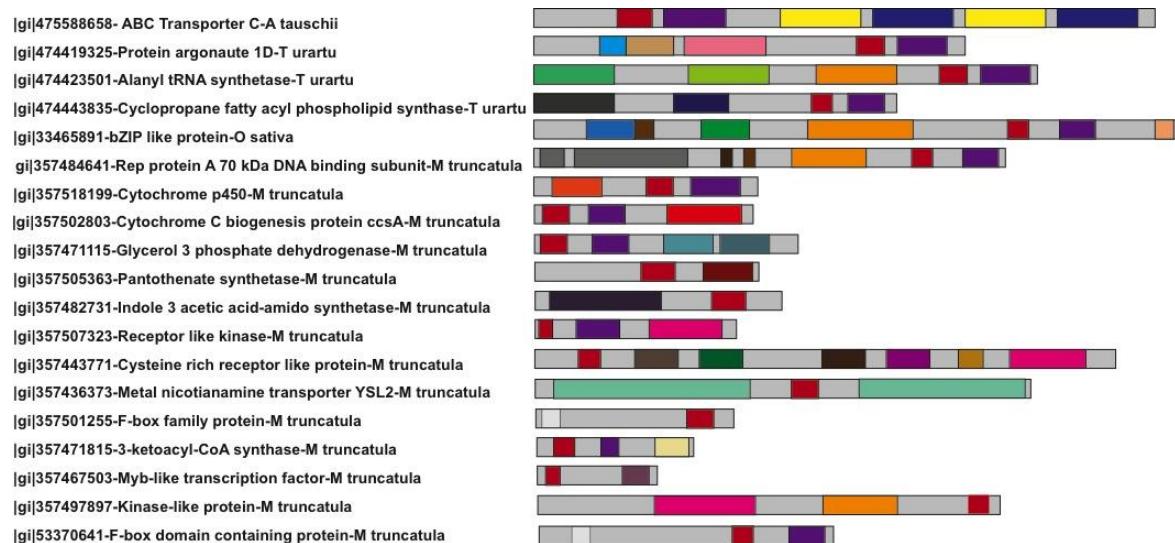
Putative Endogenous Gene	Subcellular Location	Expressed in	Expressed During	Involved in
At1g43730				
At4g04650	Stromule			Response to cold
At2g16110		hypocotyl, petiole, shoot apex		
At2g02520	Mitochondrion	Collective leaf structure, stamen, vascular leaf	LP0.2 two leaves visible stage, petal differentiation and expansion stage	
At1g33710				
At1g60720				
At5g18880	Nucleus			
At3g24255	Nucleus	Guard cell		
At4g11710				
At4g29090	Mitochondrion			
At1g10000		caulin leaf, collective leaf structure, cotyledon, flower, guard cell, hypocotyl, inflorescence meristem, leaf apex, petal, petiole, plant embryo, plant sperm cell, pollen, seed, sepal, shoot apex, shoot system, stem, vascular leaf	LP.02 two leaves visible stage, LP.04 four leaves visible stage, LP.06 six leaves visible stage, LP.10 ten leaves visible stage, LP.12 twelve leaves visible stage, M germinated pollen stage, flowering stage, mature plant embryo stage, petal differentiation and expansion stage, plant embryo bilatera stage, plant embryo cotyledonary stage, vascular leaf senescent stage	
At3g25270	Nucleus			
At3g09510	Mitochondrion			
At2g02650	Mitochondrion	Sperm cell		
At5g36905				
At2g22350				

Supplementary Fig. 1. 105 anatomical parts from 34 Arabidopsis RVT Znf genes were analyzed using the hierarchical clustering tool, using the Pearson correlation, from the GENEVESTIGATOR microarray dataset.

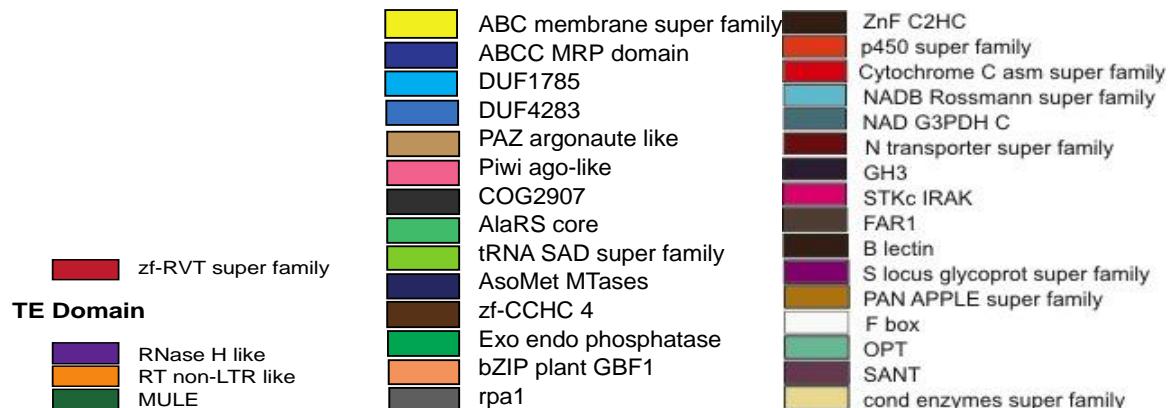


Supplementary Fig. 2. Schematic representation of additional domains in zf-RVTs from plant species.

Genes containing RVT-Znf domain were obtained with the NCBI search and analysis engine using the BLAST tool against the Viridiplantae database. At4g29090 was used as query, and domain structures were obtained using the conserved domain database from NCBI.



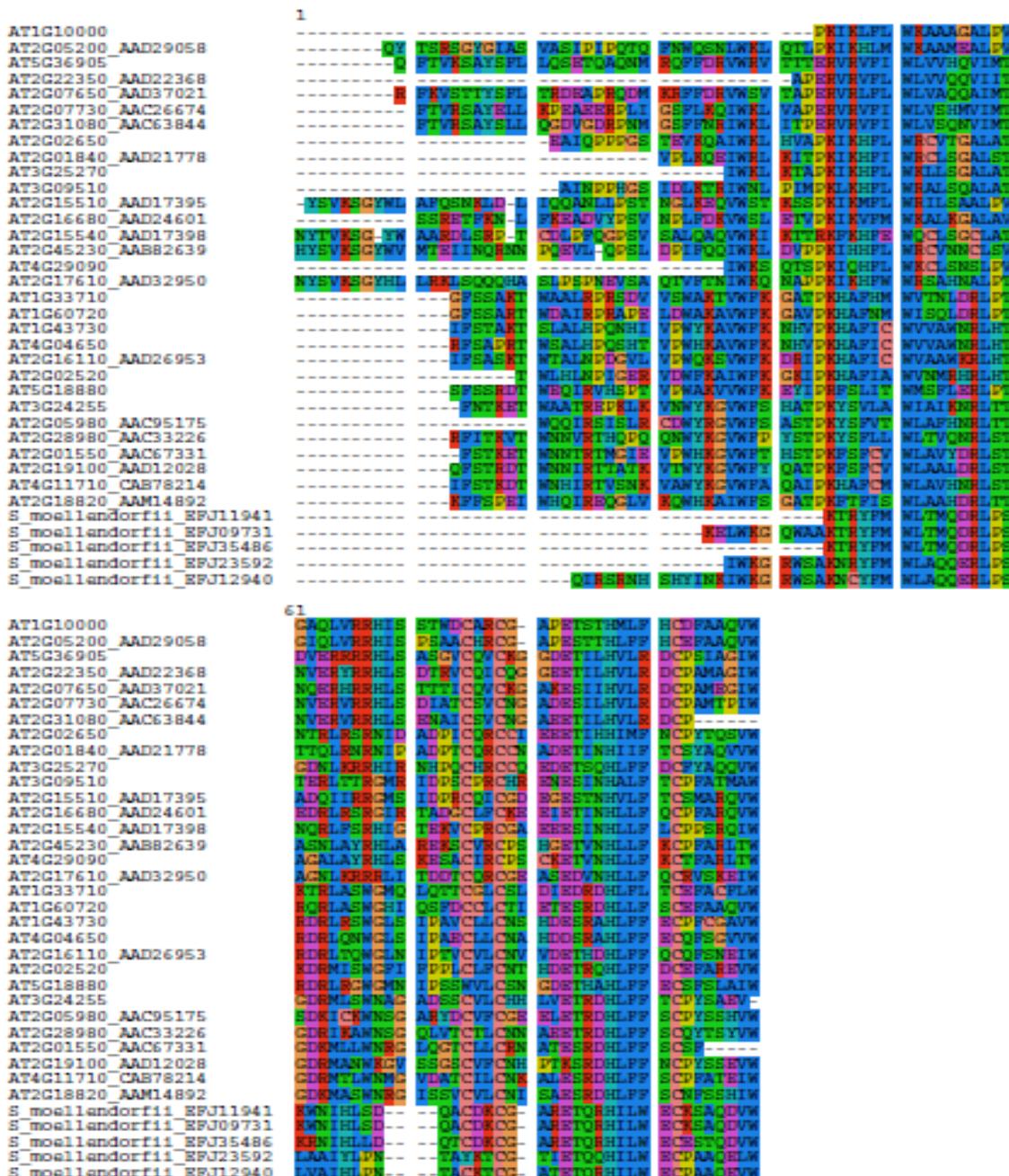
Eukaryotic Domain



Supplementary Fig. 3. Alignment of the RVT-Znf domain containing genes from *Arabidopsis*.

The total of 36 amino acid sequences analyzed were obtained as described in materials and methods, aligned using ClustalX2, manually edited using Seaview.

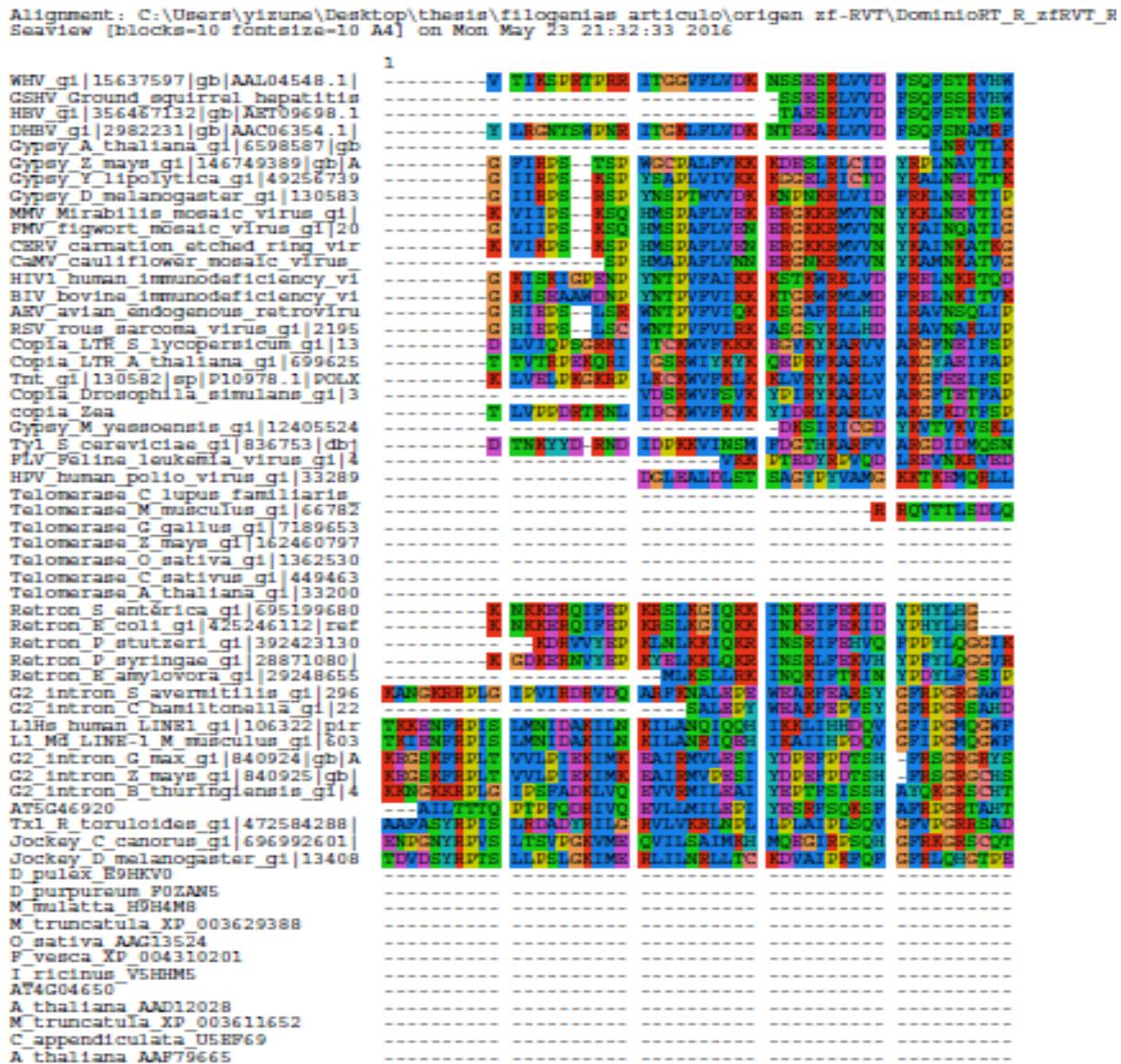
Alignment: C:\Users\yizunna\Desktop\thesis\ALINEAMIENTOS Y FILOGENIAS DE DOMINIO ZF RVT DE ARABI
Seaview [blocks=10 fontsize=10 A4] on Mon Mar 07 22:10:16 2016



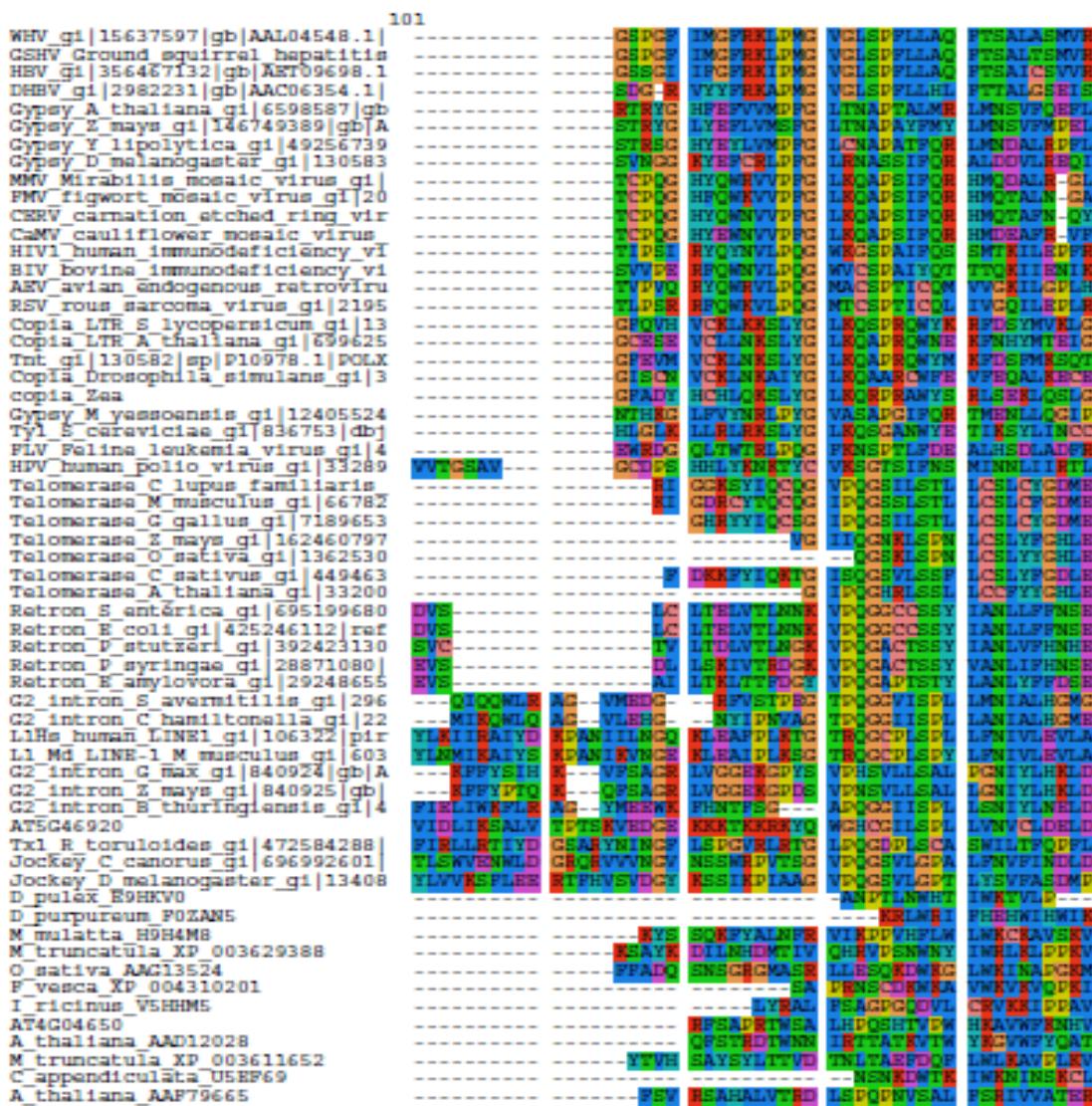
Supplementary Fig 4-8. Alignment of the origin of the RVT-Znf domain.

The total of 60 amino acid sequences analyzed were retrieved from the NCBI and Pfam databases, aligned using ClustalX2 and manually edited using Seaview.

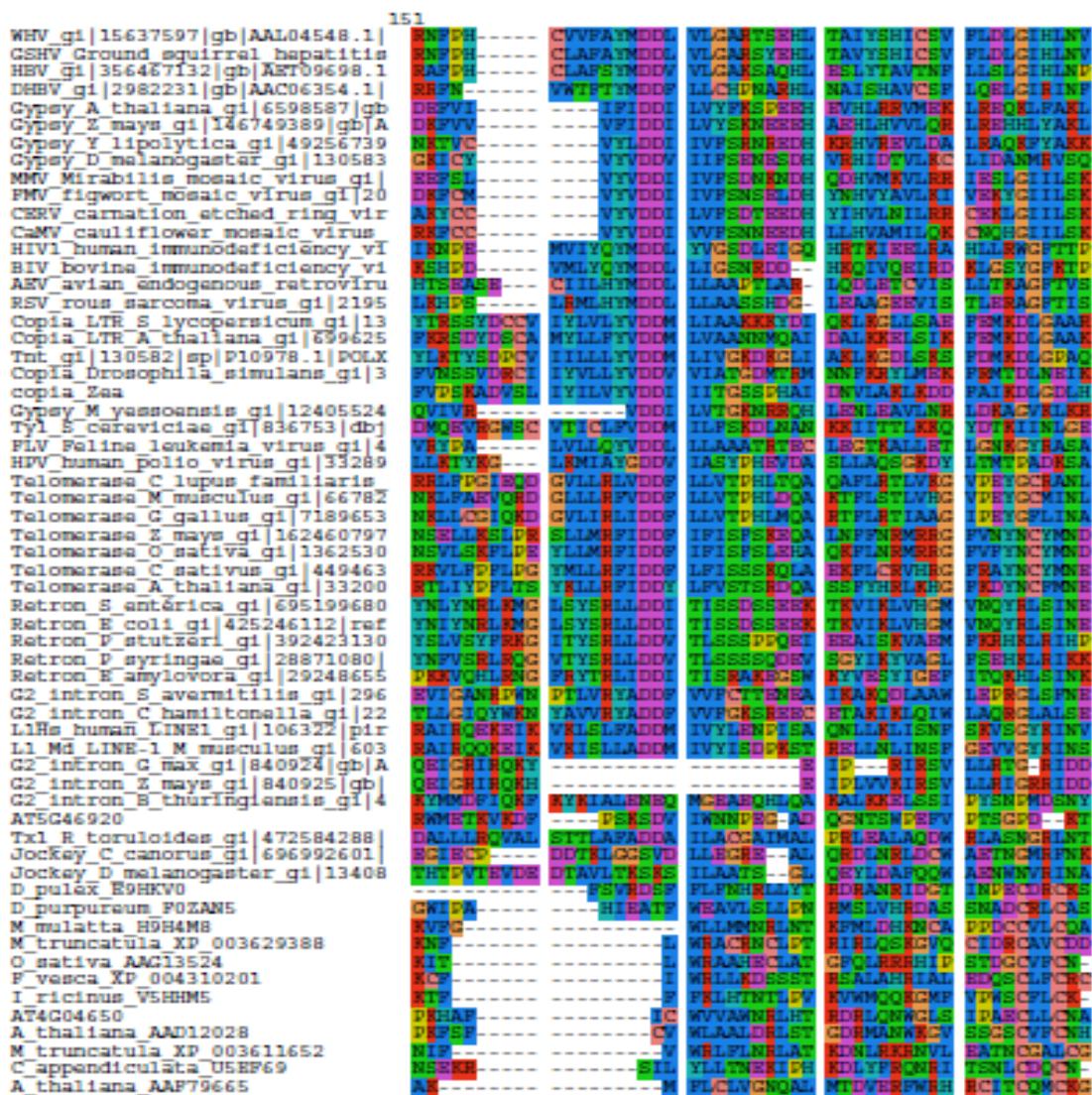
Suppl. Fig. 4.



Suppl. Fig. 5.



Suppl. Fig. 6.



Suppl. Fig. 7.



Suppl. Fig. 8.

Alignment: C:\Users\yizuna\Desktop\thesis\filogenias articulo\origen zf-RVT\DominioRT_R_zfRVT_R
Seaview [blocks=10 fontsize=10 A4] on Mon May 23 21:32:33 2016

