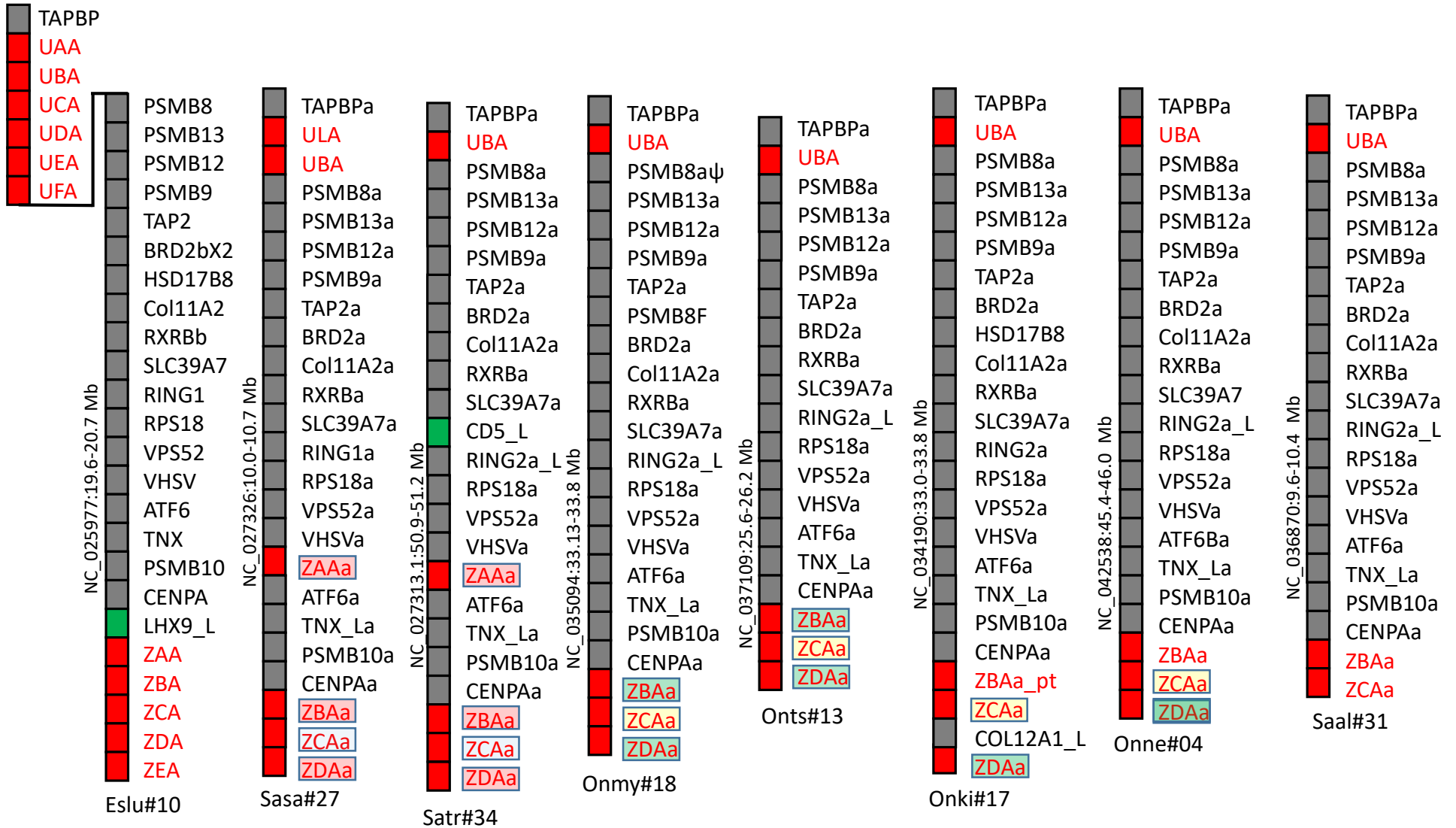


## Additional file 2 (AF2): Comparison of genomic MHC I regions from selected Salmonids and Northern pike

AF	Region	Page
AF2.1	MHC class Ia regions	2
AF2.2	MHC class Ib regions	3
AF2.3	Extended salmonid MHC Ib regions	4
AF2.4	UHA regions	5
AF2.5	L lineage regions	6-9
AF2.6	S lineage regions	10
AF2.7	H lineage regions	11
AF2.8	P lineage regions	12

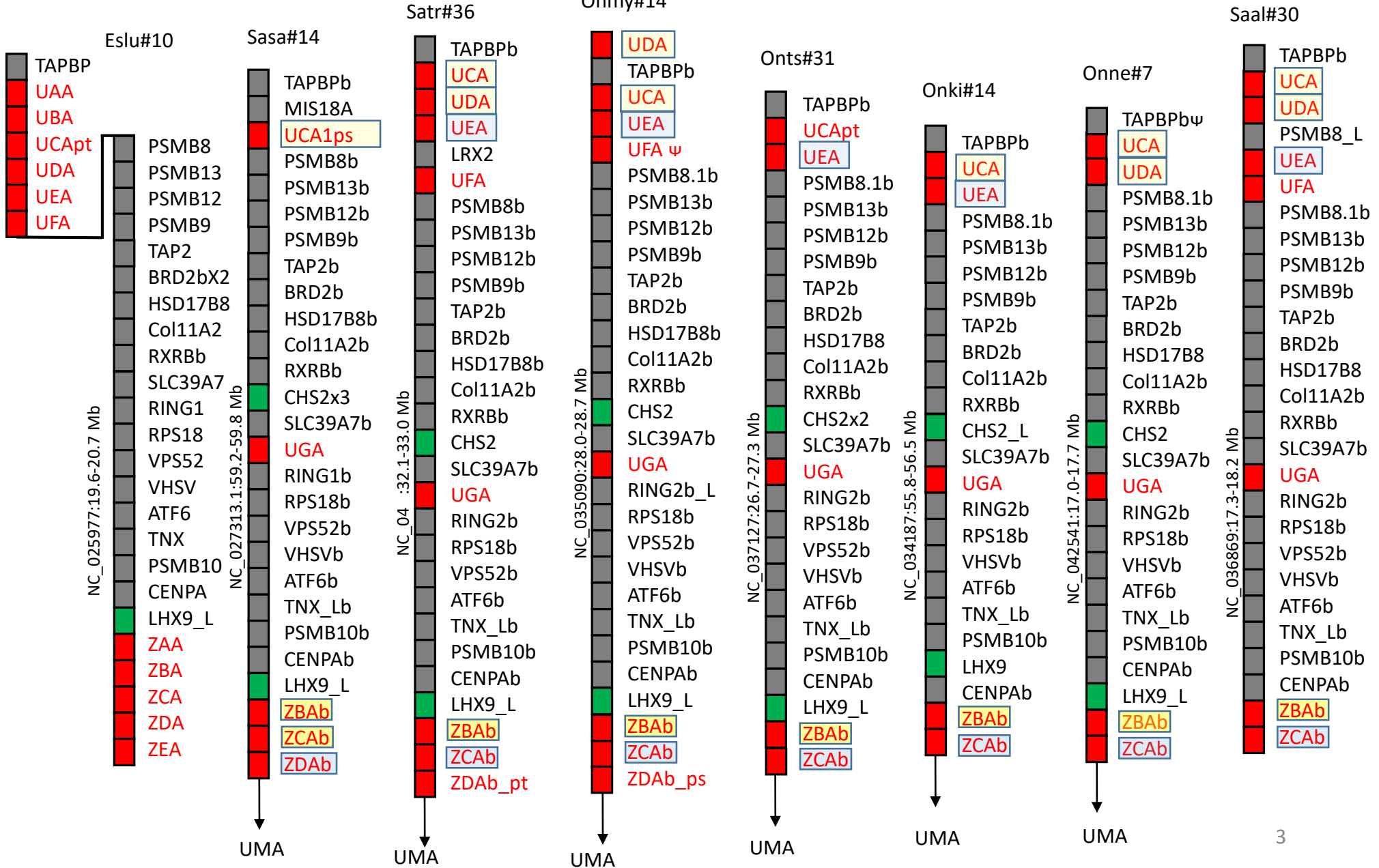
Comparison of genomic regions of MHC class I lineage genes in Salmonids and Northern pike. Genes are depicted as grey boxes apart from MHC class lineage genes are shown as red boxes and in red font. Chromosomal location or unplaced scaffold names are shown below and on the left hand side of each. Scaffolds with MHC I genes only are not shown (see Additional file 4). Typical regional genes are shown using green boxes. Phylogenetic clustering of MHC Ia and MHC Ib U and Z lineage genes is shown using colored boxes covering the gene names. Arrow in the MHC Ib regions indicate direction of the extended MHC Ib region shown on page 3 and 4. Large regional gaps are shown using solid black line where gap distance is shown in megabases (Mb). Definite pseudogenes are shown in gene name with a ps extension. Many gene names also have an \_L extension for \_like as functional verification is needed to define them as orthologs of mammalian molecules. Page 10 \* : The single Atlantic salmon S gene region located on Chr. 09 originates from main text reference Lukacs et al.2010, while the six S lineage gene sequences identified in the Atlantic salmon genome all reside on small scaffolds with MHC genes only.

# AF2.1. MHC class Ia regions

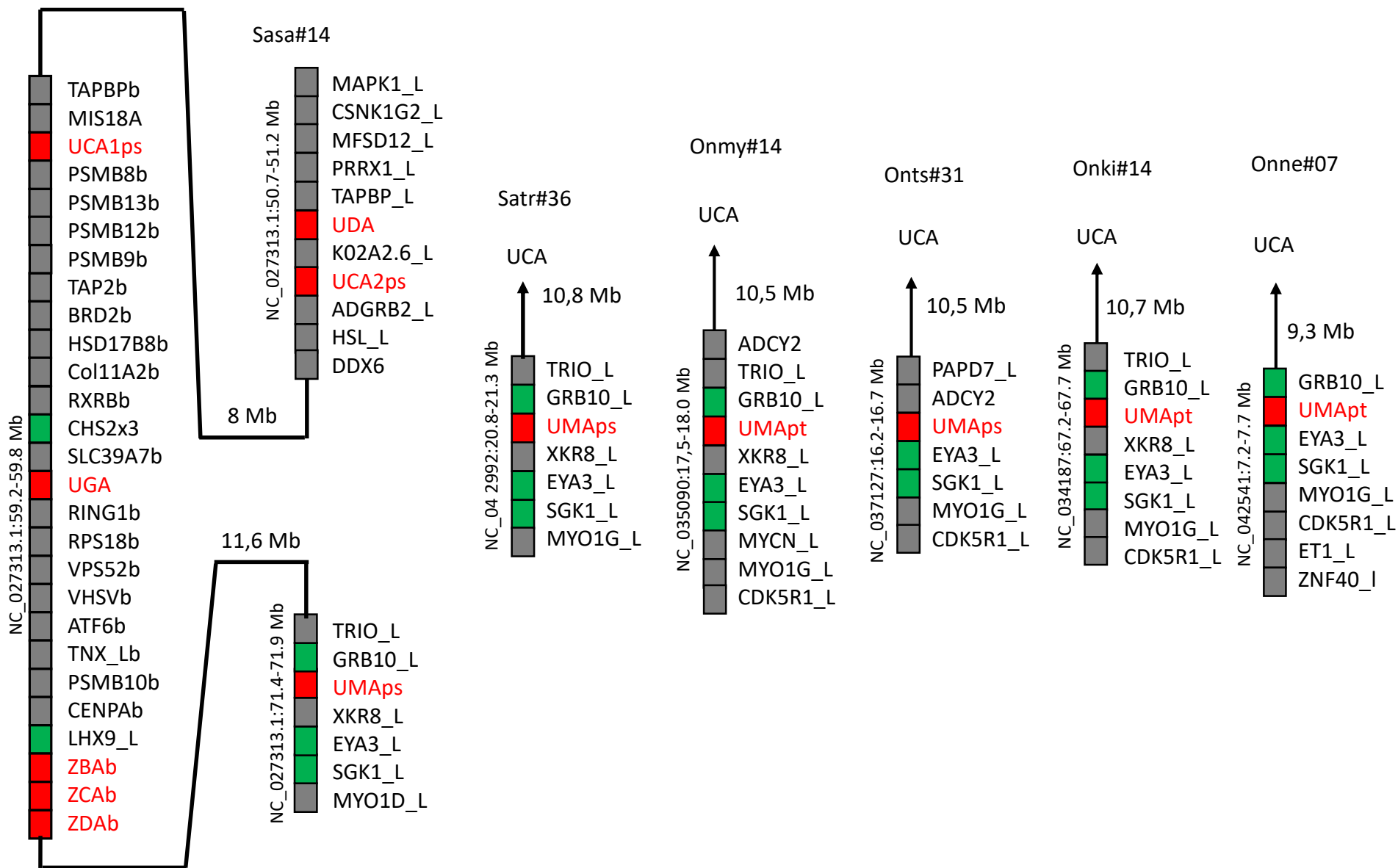


# AF2.2. MHC class Ib regions

AF2

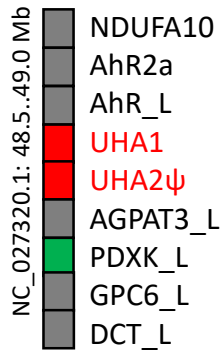


# AF2.3. Extended salmonid MHC class Ib regions

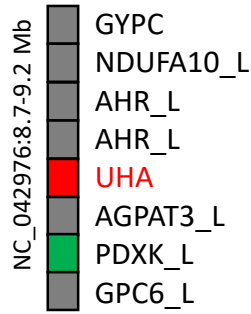


## AF2.4. UHA lineage regions

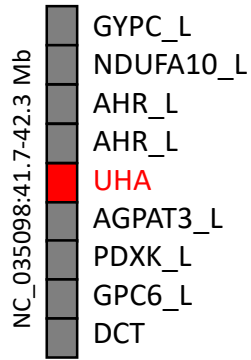
S2



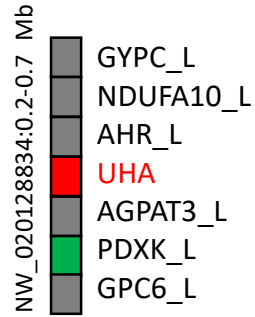
Sasa#21



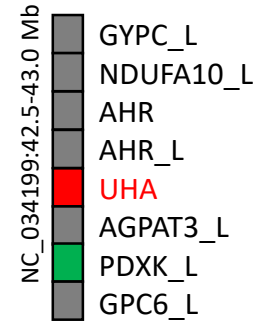
Satr#20



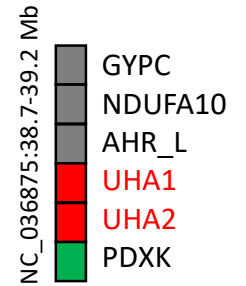
Onmy#22



Onts#834



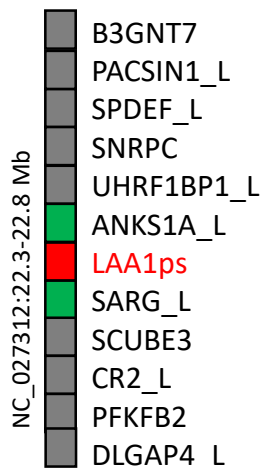
Onki#26



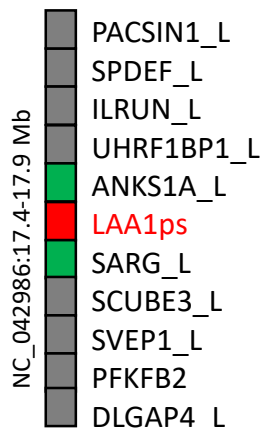
Saal#36

# AF2.5. L lineage region 1

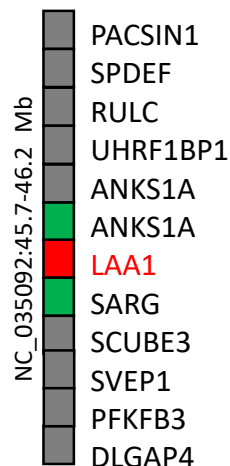
AF2



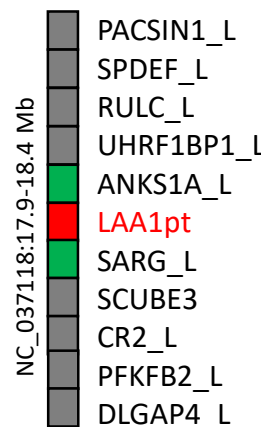
Sasa#13



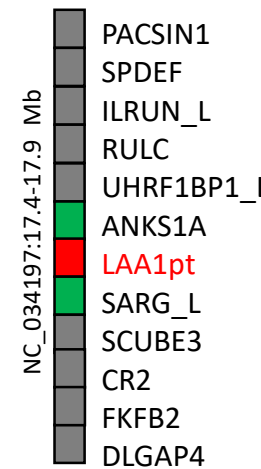
Satr#30



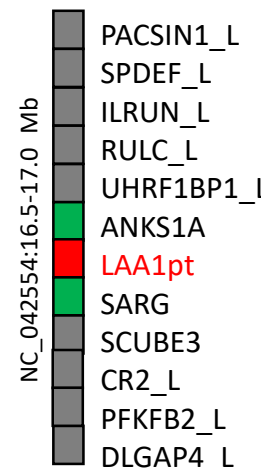
Onmy#16



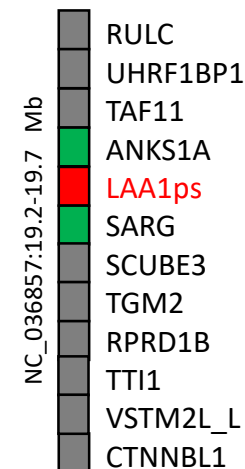
Onts#22



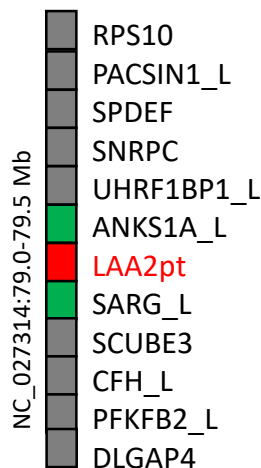
Onki#24



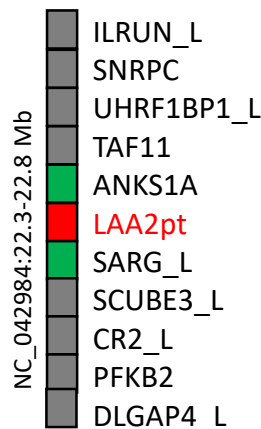
Onne#20



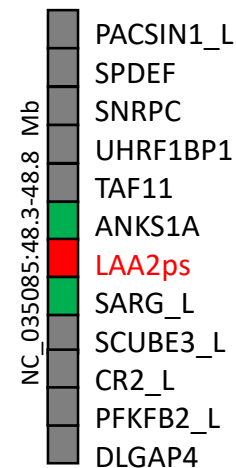
Saal#17



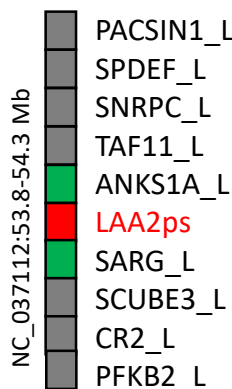
Sasa#15



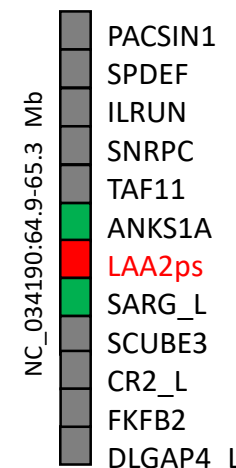
Satr#28



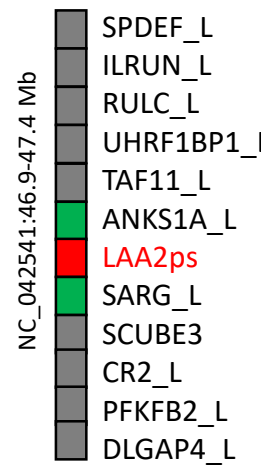
Onmy#09



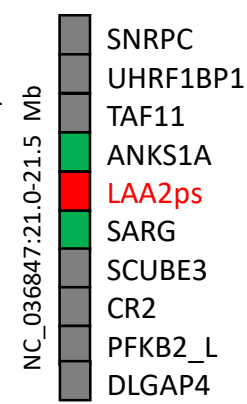
Onts#16



Onki#17

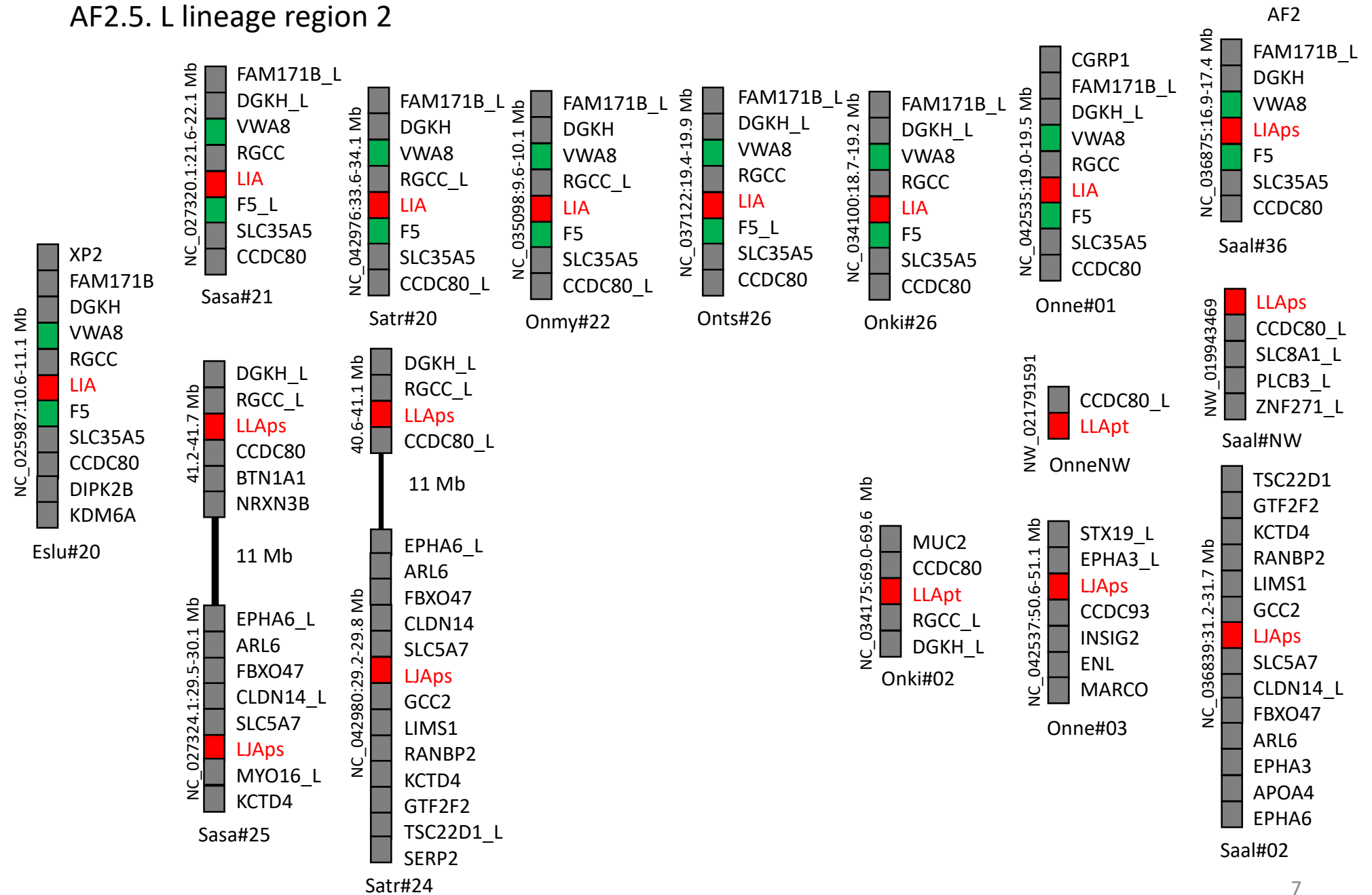


Onne#07



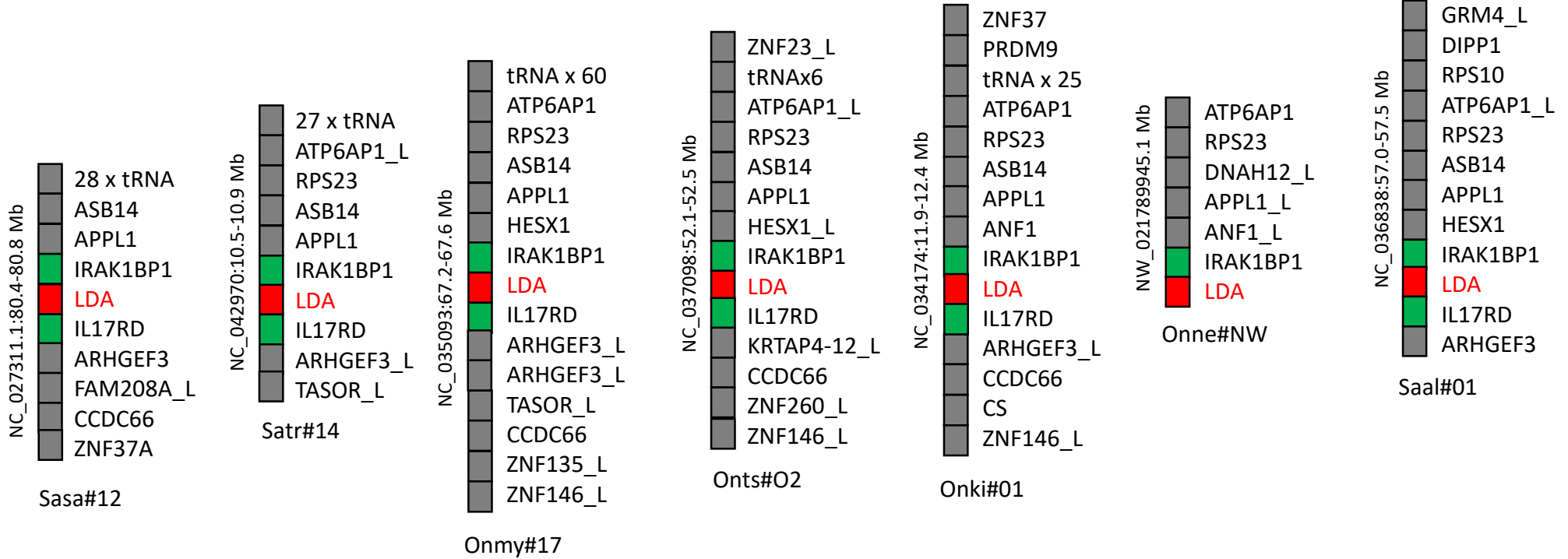
Saal#07

# AF2.5. L lineage region 2



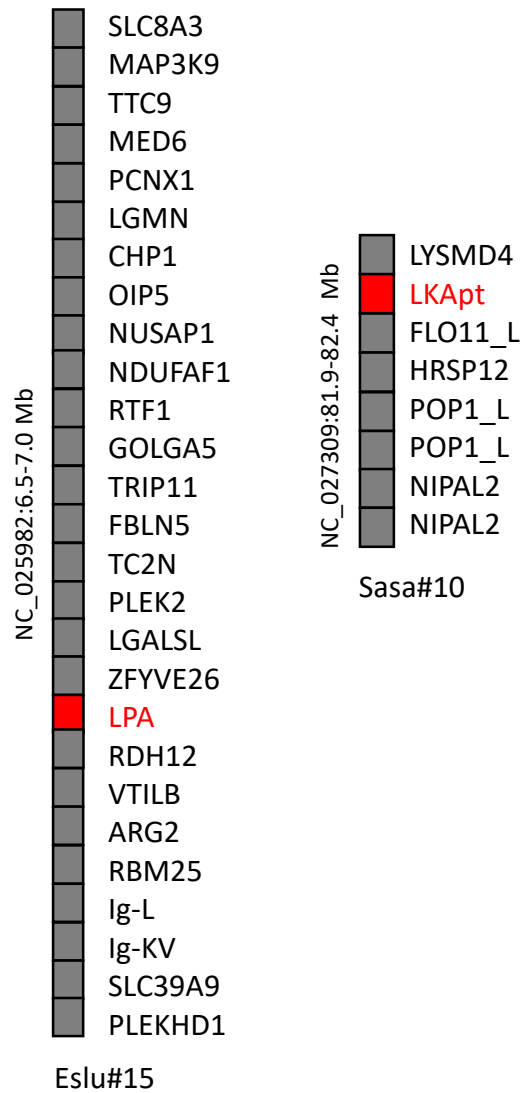
# AF2.5. L lineage region 3

AF2



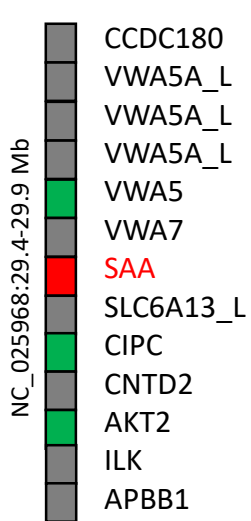


# AF2.5. Unique L lineage regions

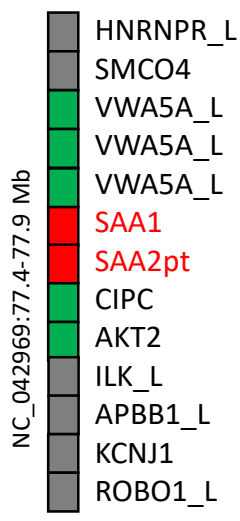


# AF2.6. S lineage regions

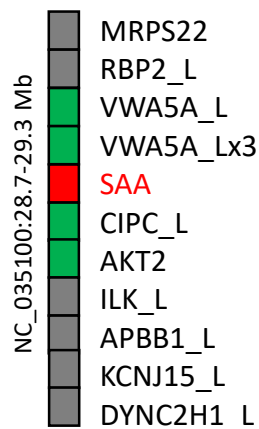
AF2



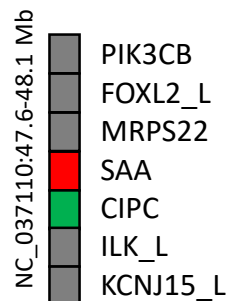
Eslu#01



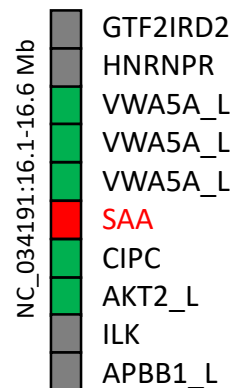
Satr#13



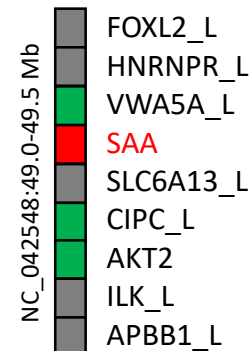
Onmy#24



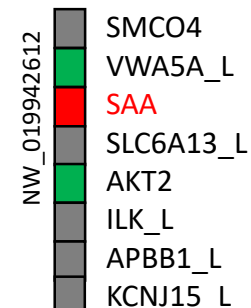
Onks#14



Onki#18



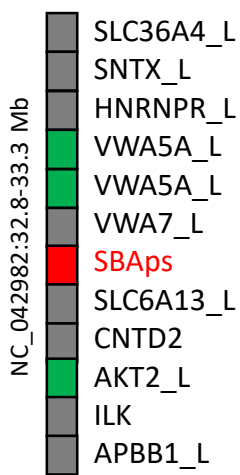
Onne#14



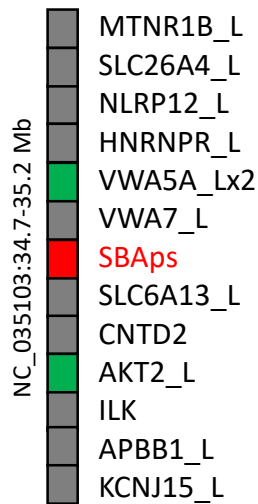
Saal#NW



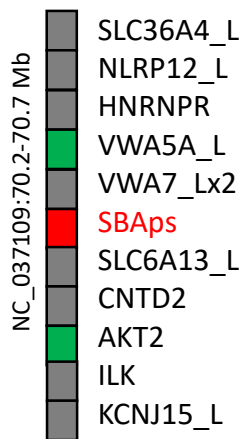
Sasa#09\*



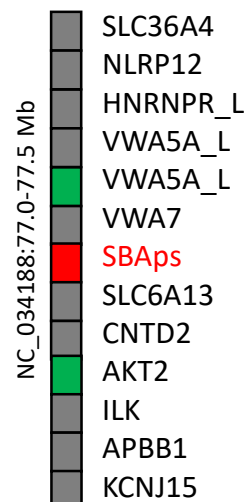
Satr#26



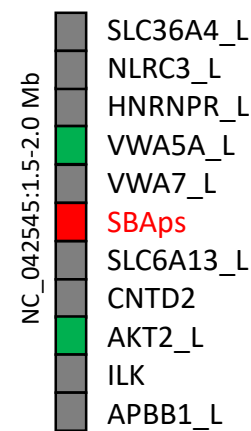
Onmy#27



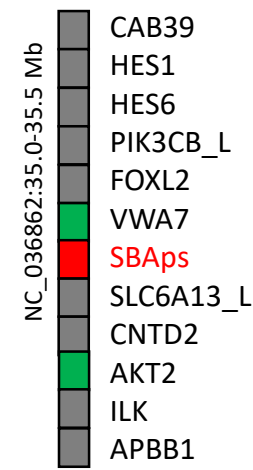
Onks#13



Onki#15



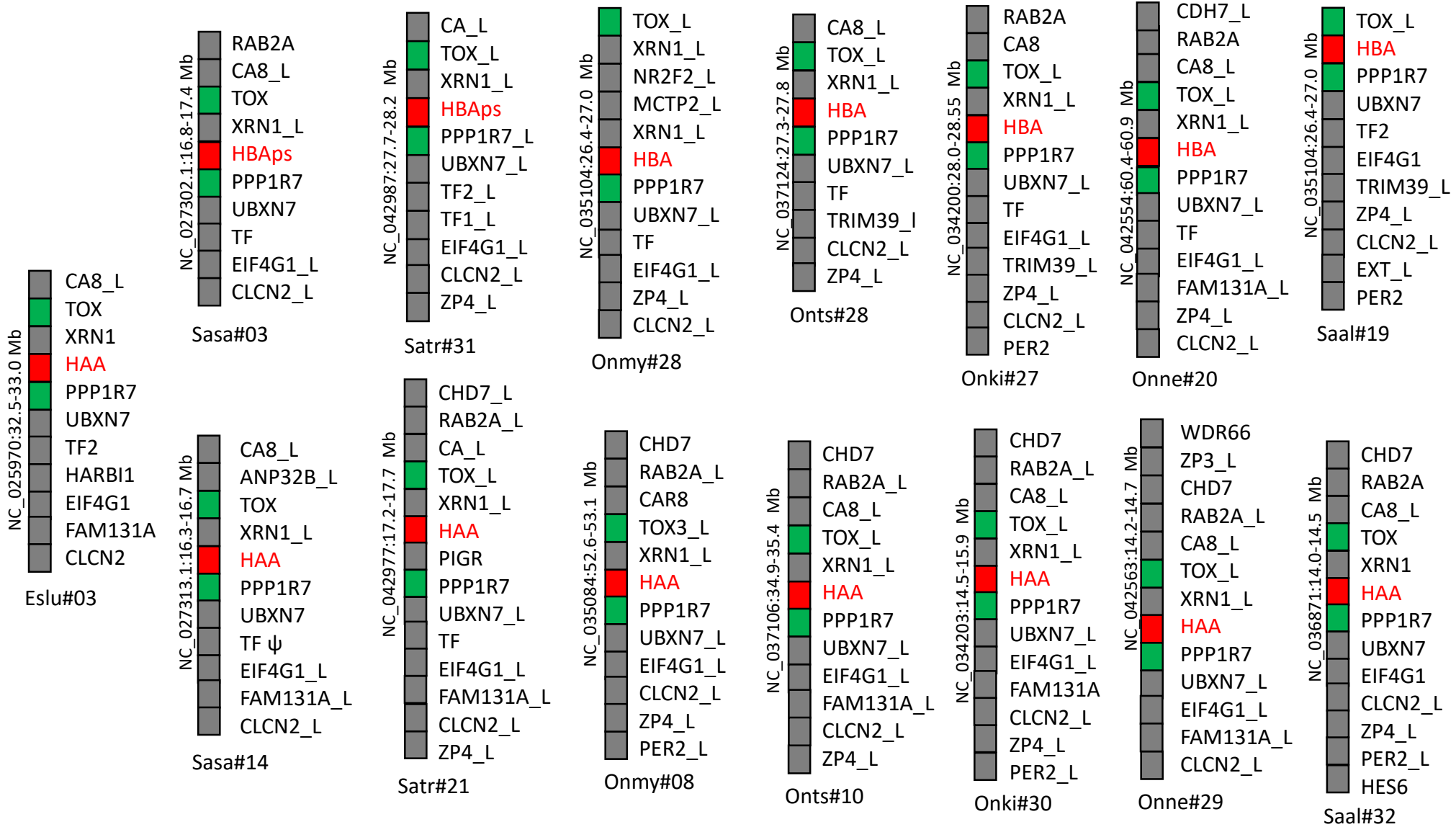
Onne#11



Saal#22

# AF2.7. H lineage regions

AF2



# AF2.8. P lineage regions

S1

