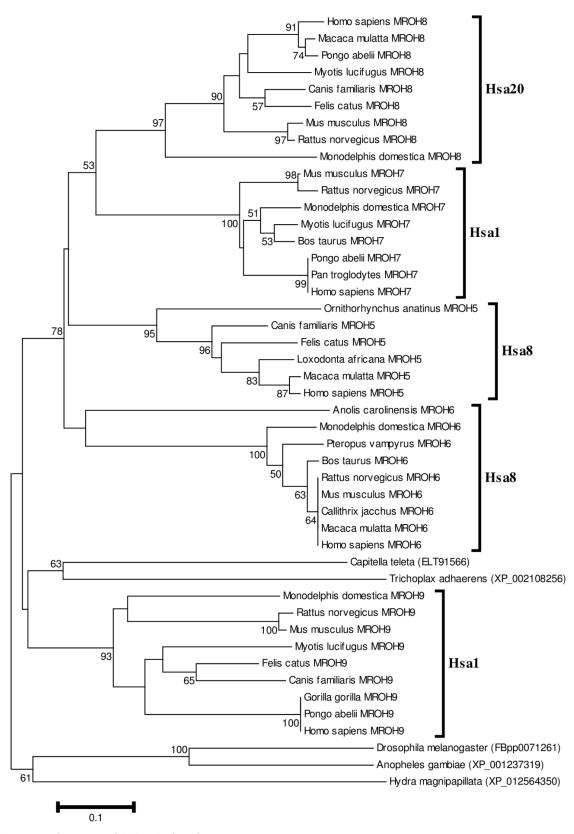
Additional file 2: Neighbor Joining Trees of gene families (residing on human chromosomes 1/2/8/20) using p-distance method.

Co-duplicated group-1

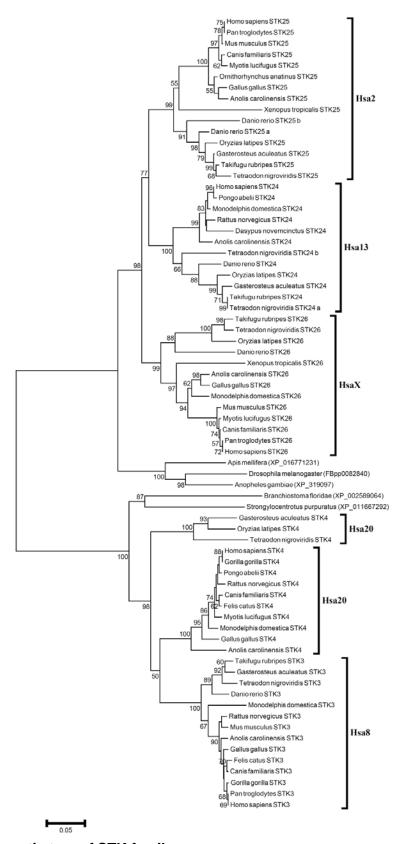
MROH8 and STK

Maestro Heat-like Repeat-containing Protein Family - MROH



Phylogenetic tree of MROH family.

Neighbor-Joining tree of the MROH family members. Symbols and parameters are the same as described in supplementary Figure 1.1



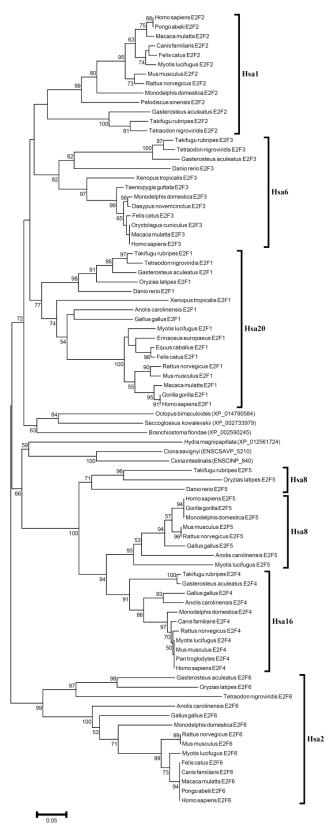
Phylogenetic tree of STK family.

Neighbor-Joining tree of the STK family members. Symbols and parameters are the same as described in supplementary Figure 1.1

Co-duplicated group-2
E2F, STMN1, EYA*

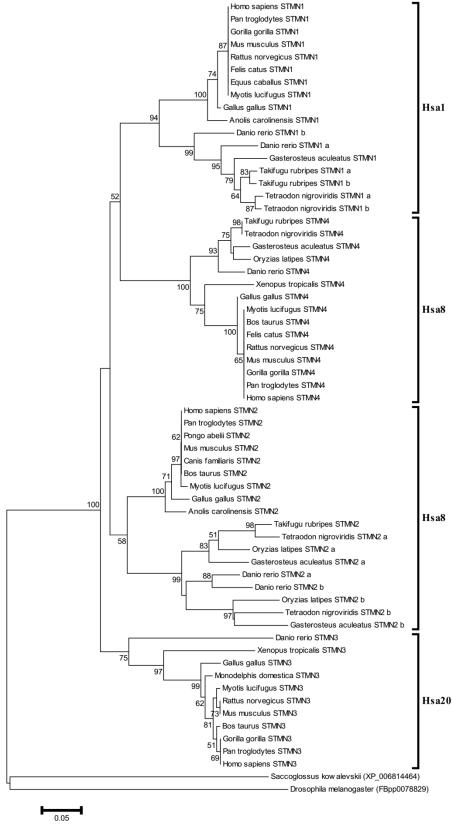
Asterisks (*) represent families published previously by our research group (for details see main text).

E2F Transcription Factor-E2F



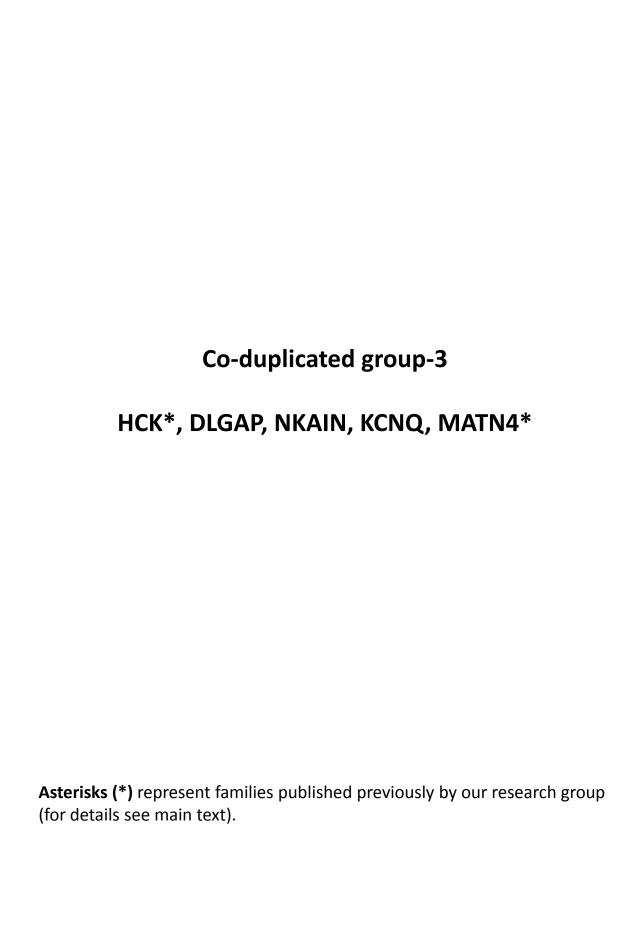
Phylogenetic tree of E2F family.

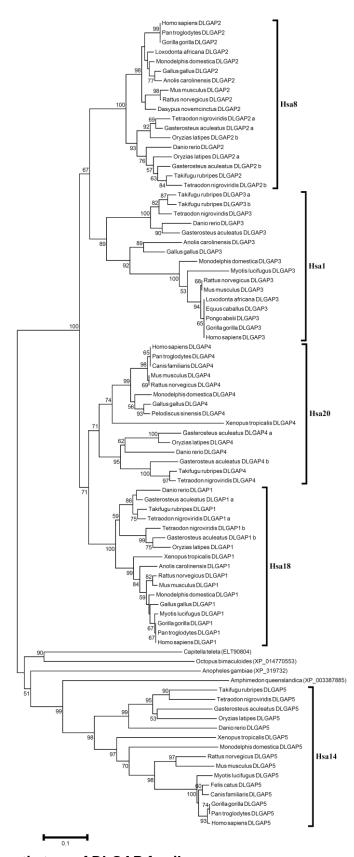
Neighbor-Joining tree of the E2F family members. Symbols and parameters are the same as described in supplementary Figure 1.1



Phylogenetic tree of STMN family.

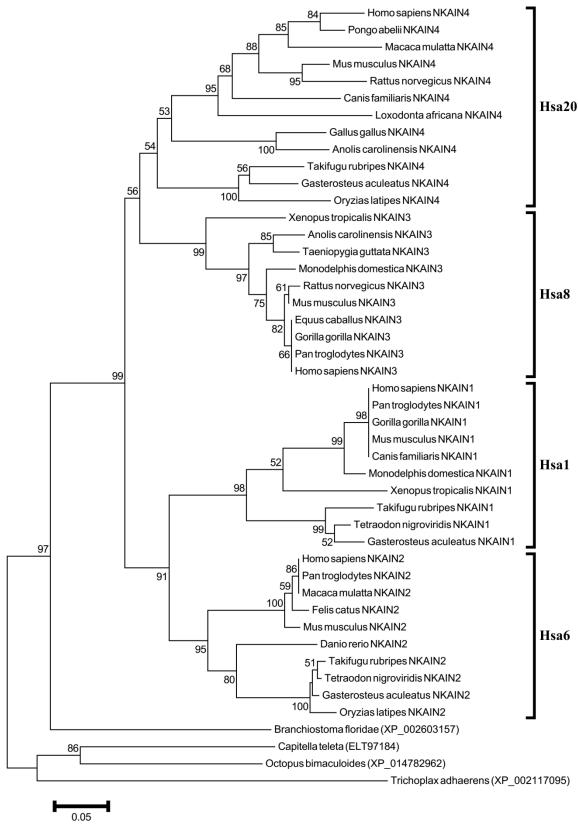
Neighbor-Joining tree of the STMN family members. Symbols and parameters are the same as described in supplementary Figure 1.1





Phylogenetic tree of DLGAP family.

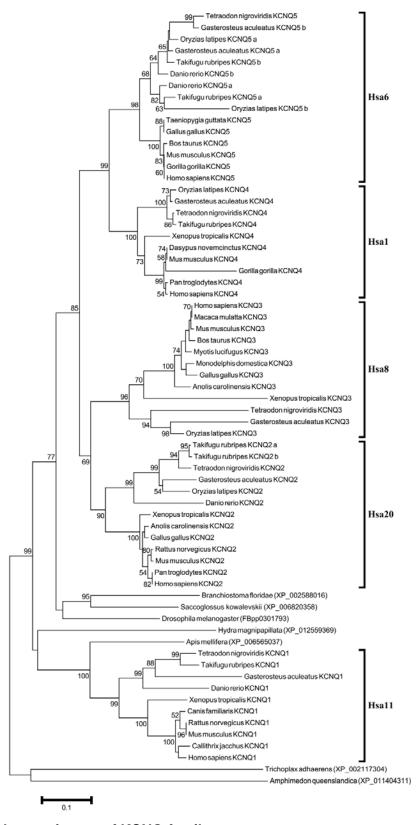
Neighbor-Joining tree of the DLGAP family members. Symbols and parameters are the same as described in supplementary Figure 1.1



Phylogenetic tree of NKAIN family.

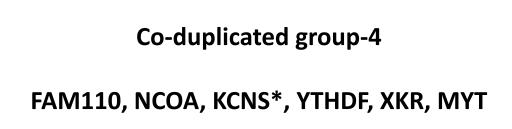
Neighbor-Joining tree of the NKAIN family members. Symbols and parameters are the same as described in supplementary Figure 1.1

Potassium Voltage-Gated Channel subfamily Q-KCNQ



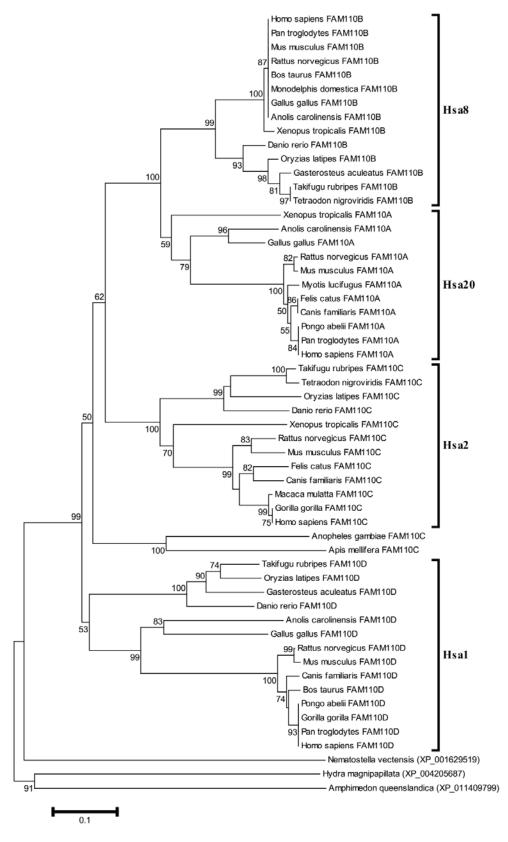
Phylogenetic tree of KCNQ family.

Neighbor-Joining tree of the KCNQ family members. Symbols and parameters are the same as described in supplementary Figure 1.1



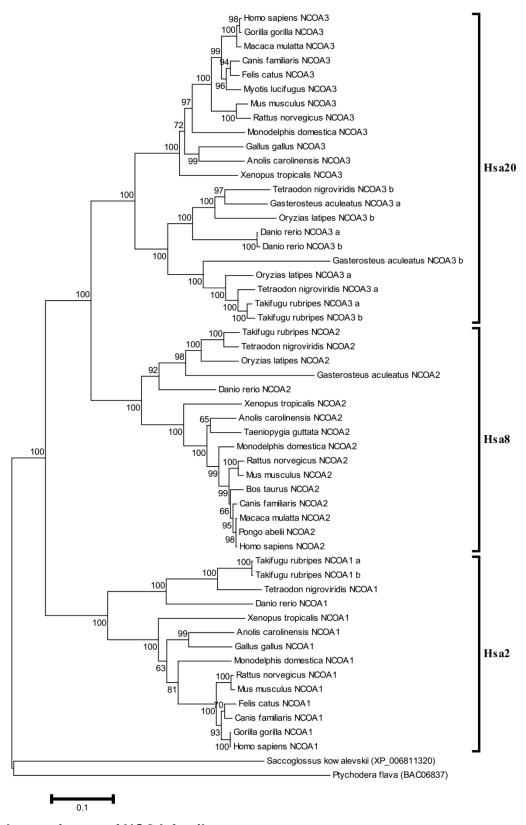
Asterisks (*) represent families published previously by our research group (for details see main text).

Family with Sequence Similarity 110-FAM110



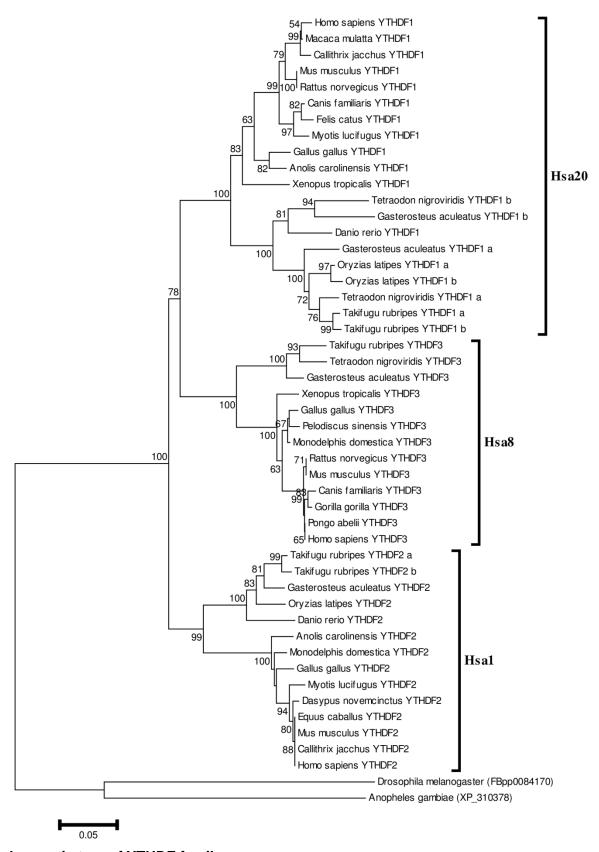
Phylogenetic tree of FAM110 family.

Neighbor-Joining tree of the FAM110 family members. Symbols and parameters are the same as described in supplementary Figure 1.1



Phylogenetic tree of NCOA family.

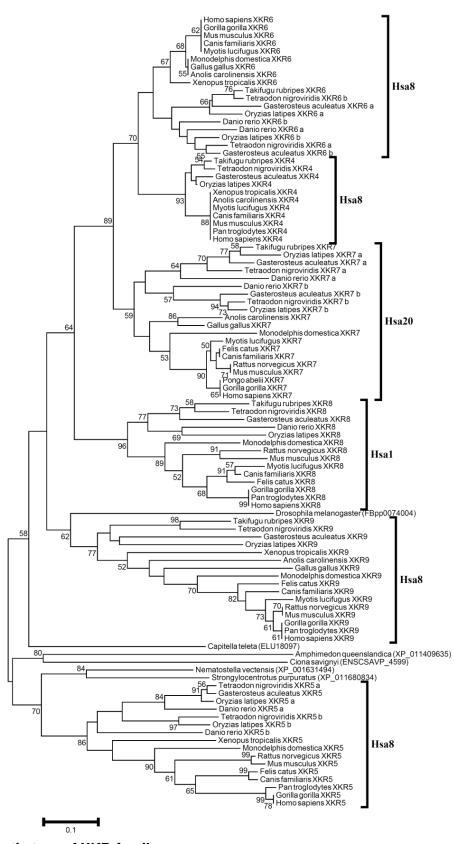
Neighbor-Joining tree of the NCOA family members. Symbols and parameters are the same as described in supplementary Figure 1.1



Phylogenetic tree of YTHDF family.

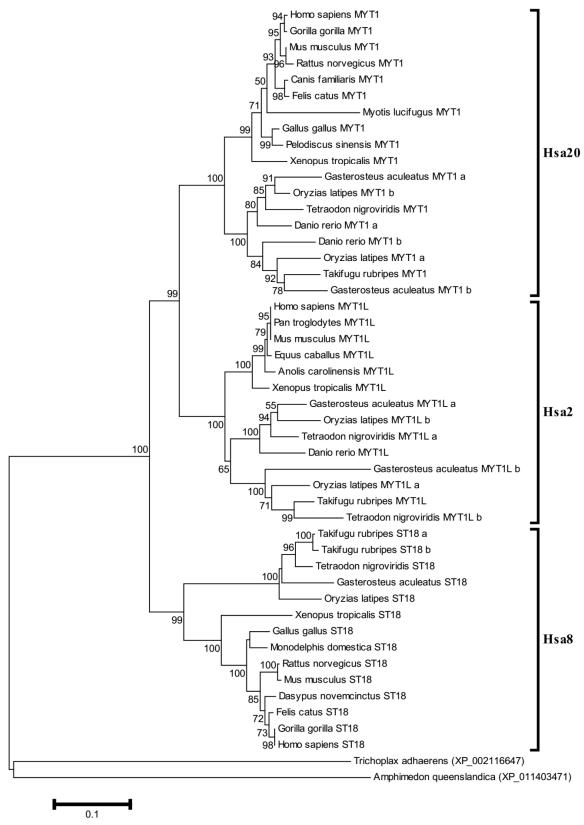
Neighbor-Joining tree of the YTHDF family members. Symbols and parameters are the same as described in supplementary Figure 1.1

X Kell Blood Group Precursor-related Family-XKR



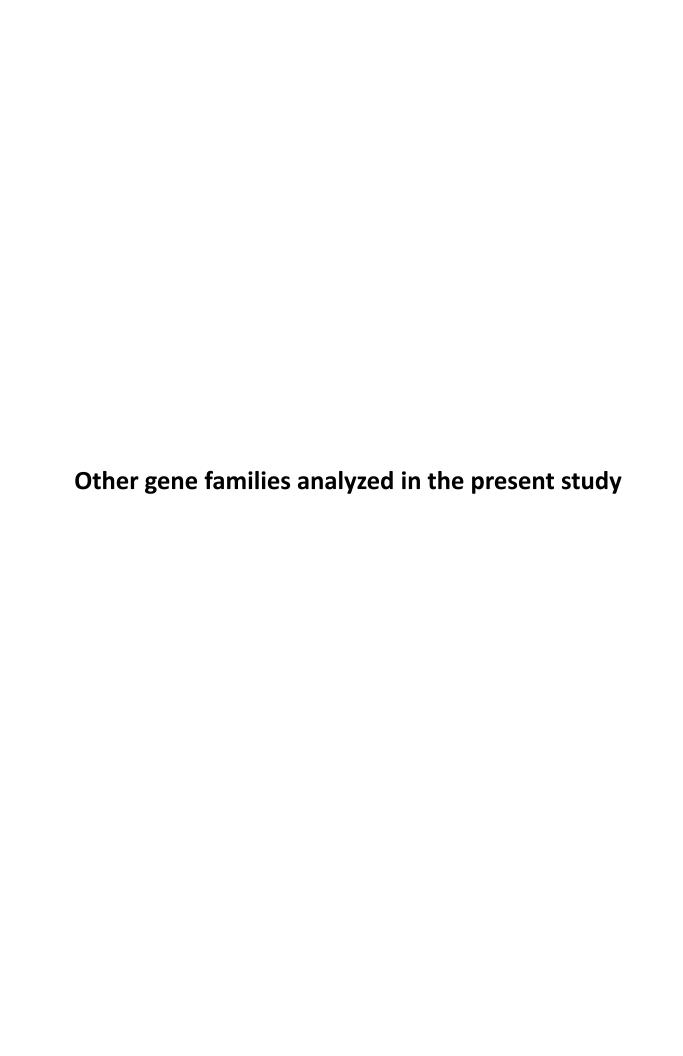
Phylogenetic tree of XKR family.

Neighbor-Joining tree of the XKR family members. Symbols and parameters are the same as described in supplementary Figure 1.1

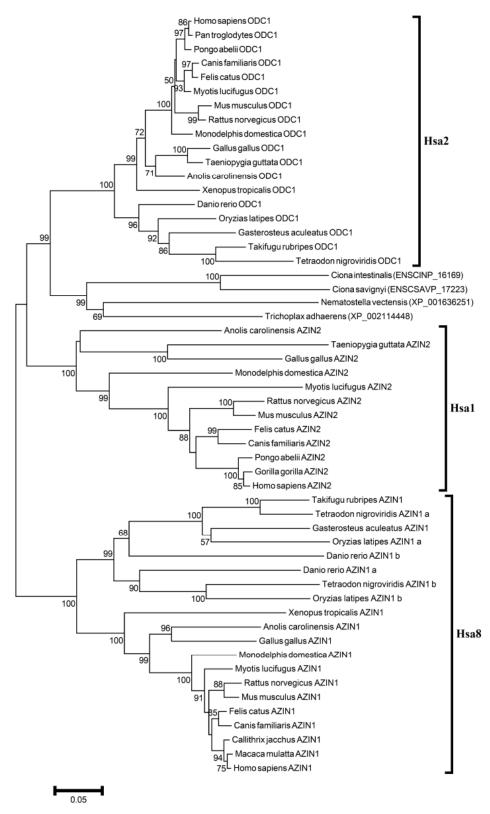


Phylogenetic tree of MYT family.

Neighbor-Joining tree of the MYT family members. Symbols and parameters are the same as described in supplementary Figure 1.1



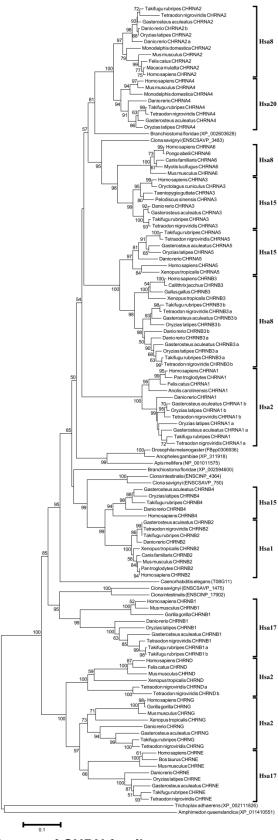
Antizyme Inhibitor-AZIN



Phylogenetic tree of AZIN family.

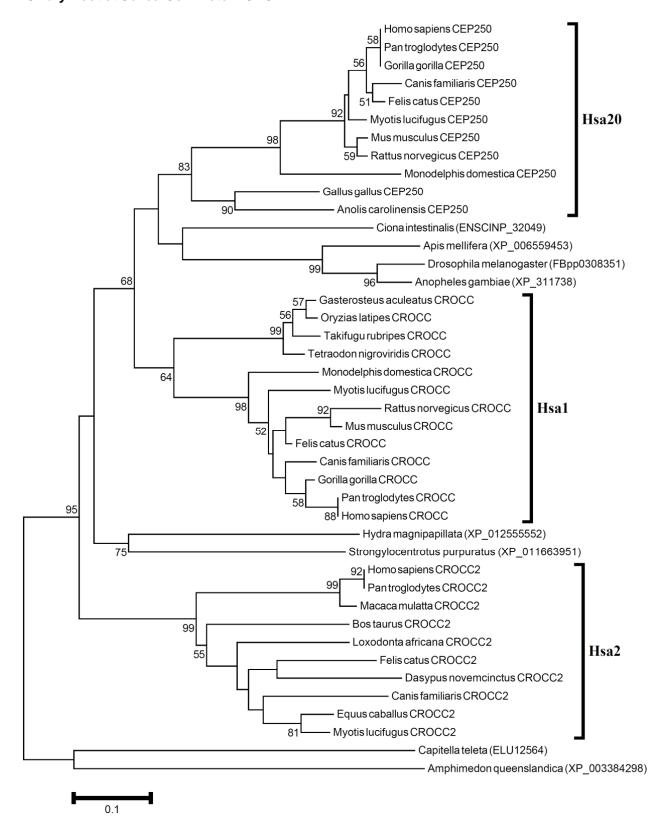
Neighbor-Joining tree of the AZIN family members. Uncorrected p-distance was used. Complete-deletion option was used. Numbers on branches represent bootstrap values (based on 1000 replications) supporting that branch; only the values \geq 50% are presented here. Scale bar shows amino acid substitution per site.

Cholinergic Receptor Nicotinic Subunits-CHRN



Phylogenetic tree of CHRN family.

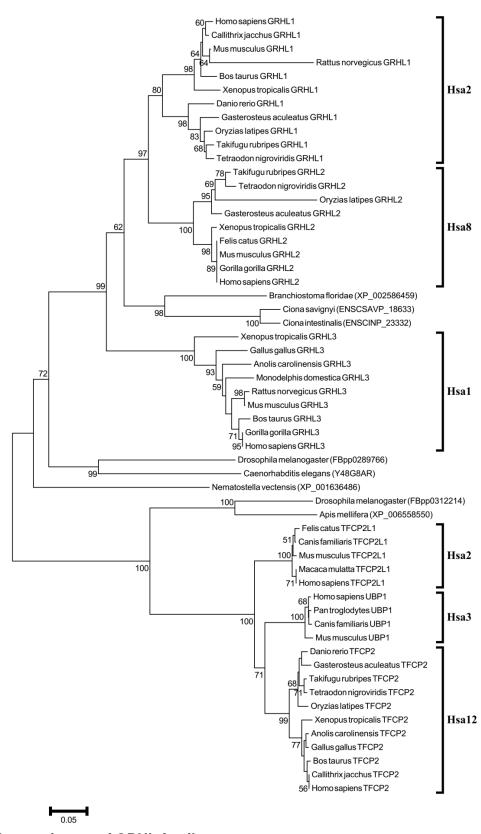
Neighbor-Joining tree of the CHRN family members. Symbols and parameters are the same as described in supplementary Figure 1.1



Phylogenetic tree of CRO family.

Neighbor-Joining tree of the CRO family members. Symbols and parameters are the same as described in supplementary Figure 1.1

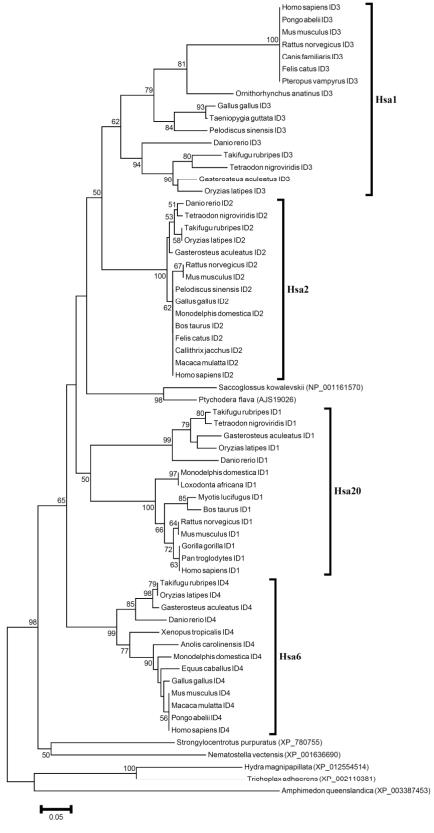
Grainyhead like Transcription factor-GRHL



Phylogenetic tree of GRHL family.

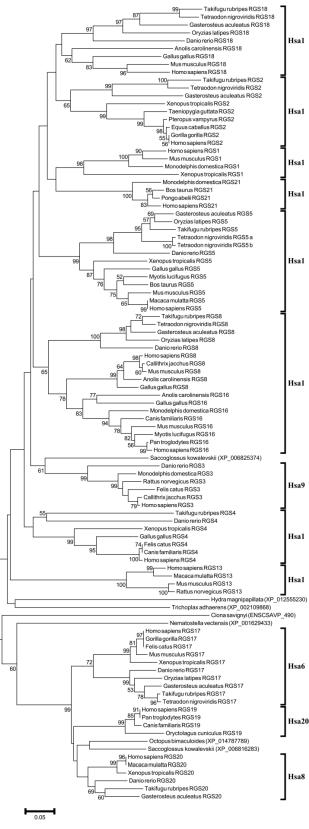
Neighbor-Joining tree of the GRHL family members. Symbols and parameters are the same as described in supplementary Figure 1.1

Inhibitor of DNA Binding protein-ID



Phylogenetic tree of ID family.

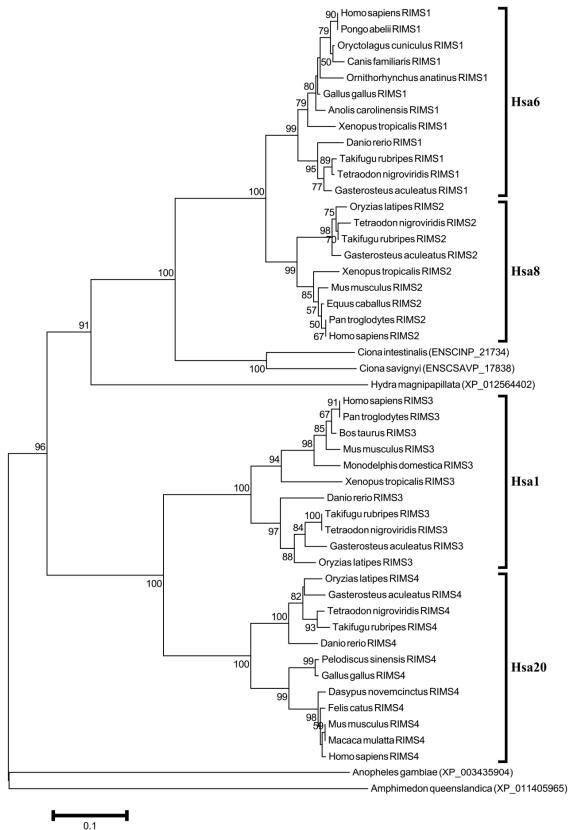
Neighbor-Joining tree of the ID family members. Symbols and parameters are the same as described in supplementary Figure 1.1



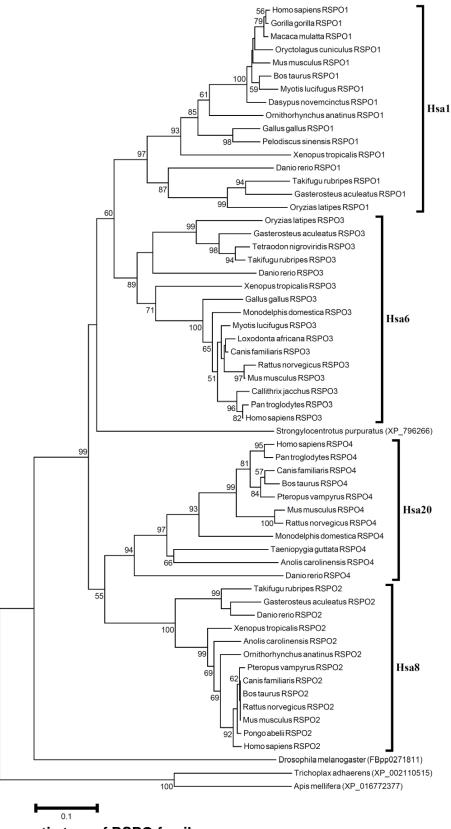
Phylogenetic tree of RGS family.

Neighbor-Joining tree of the RGS family members. Symbols and parameters are the same as described in supplementary Figure 1.1

Regulating Synaptic Membrane Exocytosis Protein -RIMS



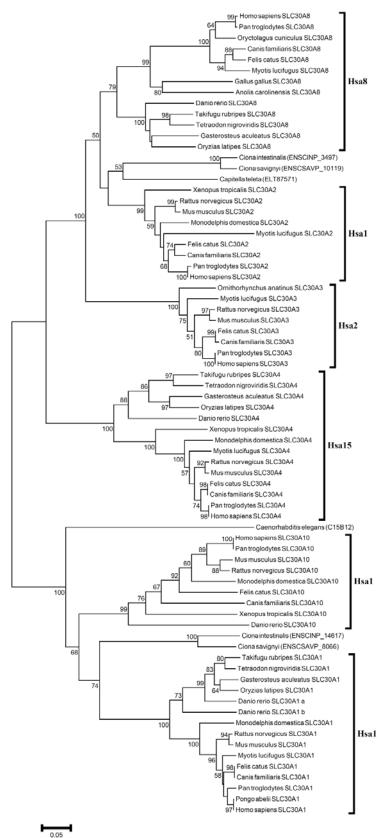
Phylogenetic tree of RIMS family.



Phylogenetic tree of RSPO family.

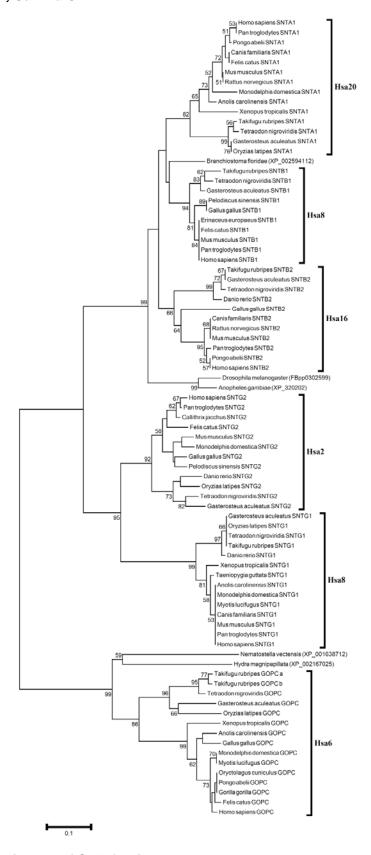
Neighbor-Joining tree of the RSPO family members. Symbols and parameters are the same as described in supplementary Figure 1.1

Solute Carrier Family-SLC



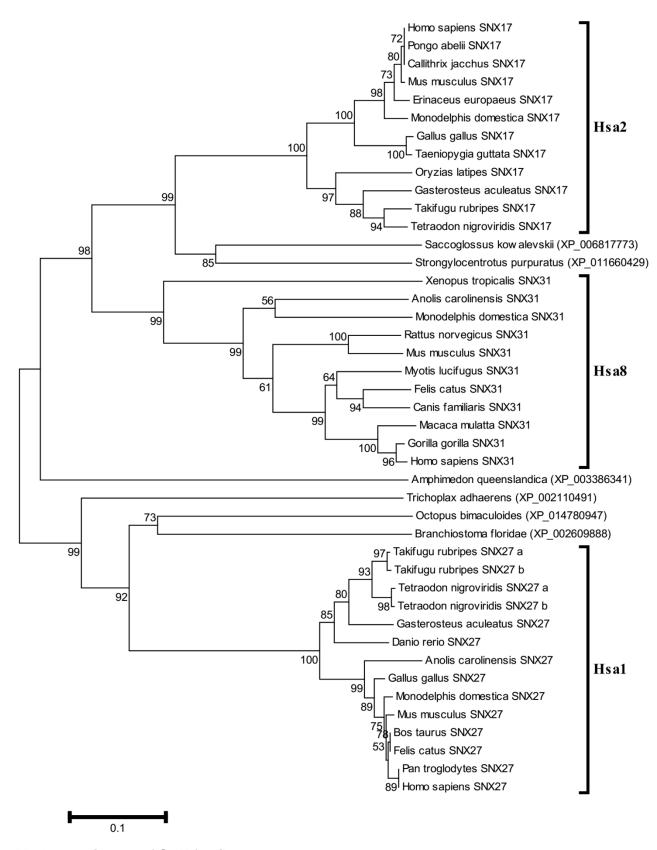
Phylogenetic tree of SLC family.

Neighbor-Joining tree of the SLC family members. Symbols and parameters are the same as described in supplementary Figure 1.1



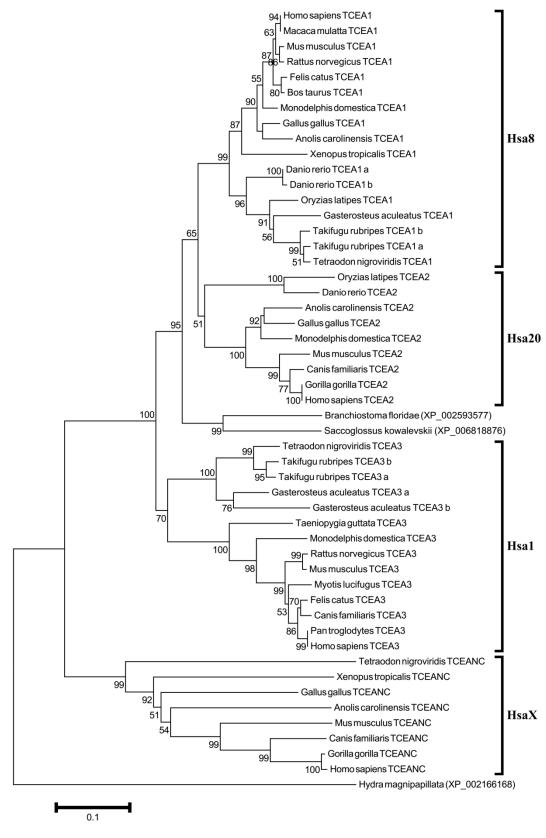
Phylogenetic tree of SNT family.

Neighbor-Joining tree of the SNT family members. Symbols and parameters are the same as described in supplementary Figure 1.1



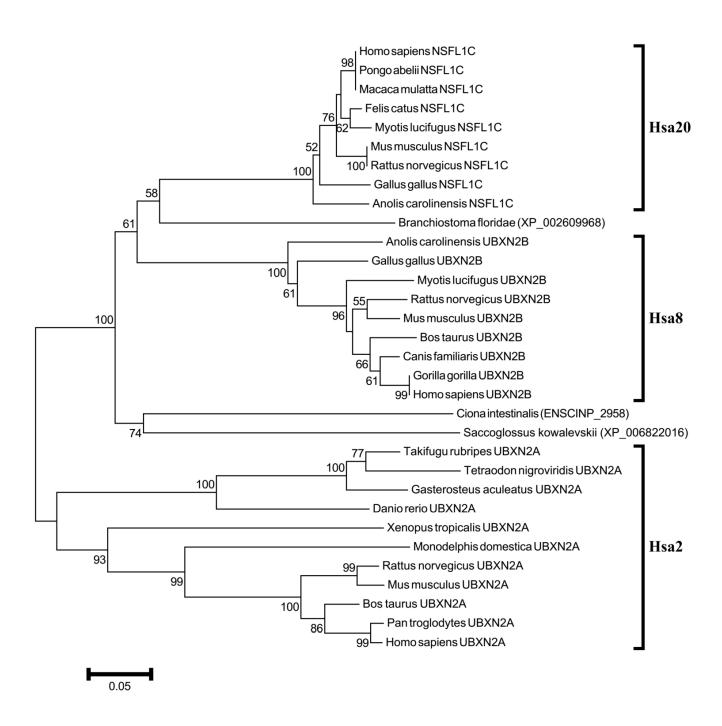
Phylogenetic tree of SNX family.

Transcription Elongation factor A (SII) Protein-TCEA



Phylogenetic tree of TCEA family.

Neighbor-Joining tree of the TCEA family members. Symbols and parameters are the same as described in supplementary Figure 1.1



Phylogenetic tree of UBXN family.