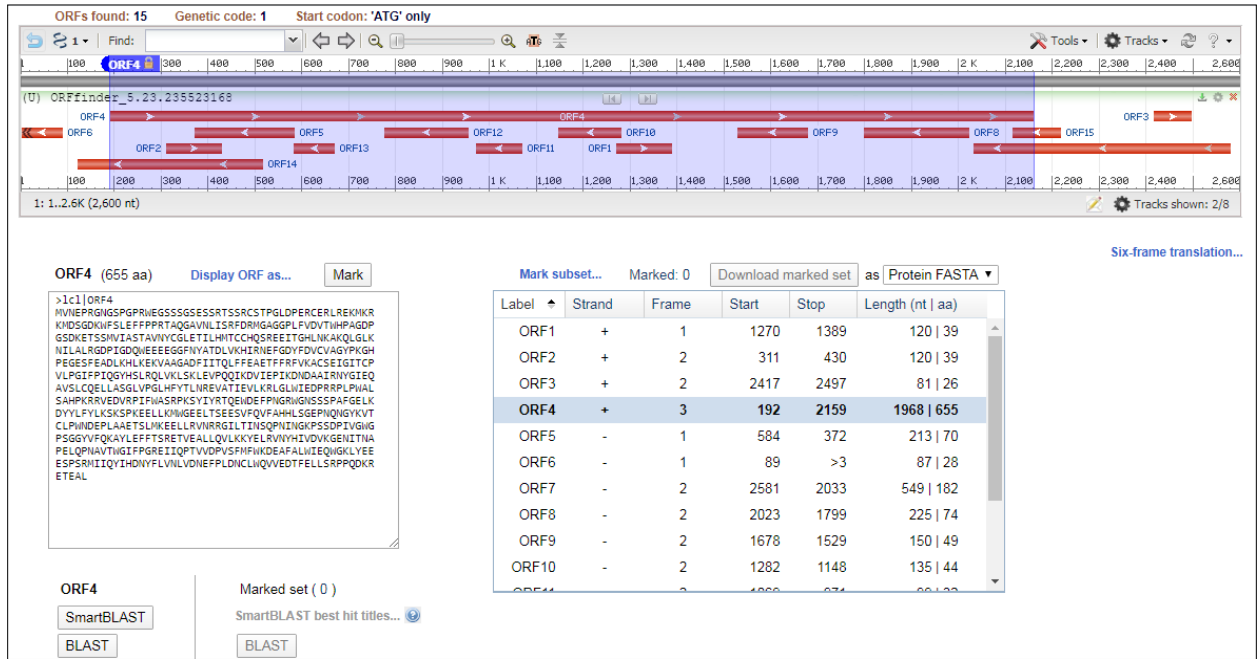
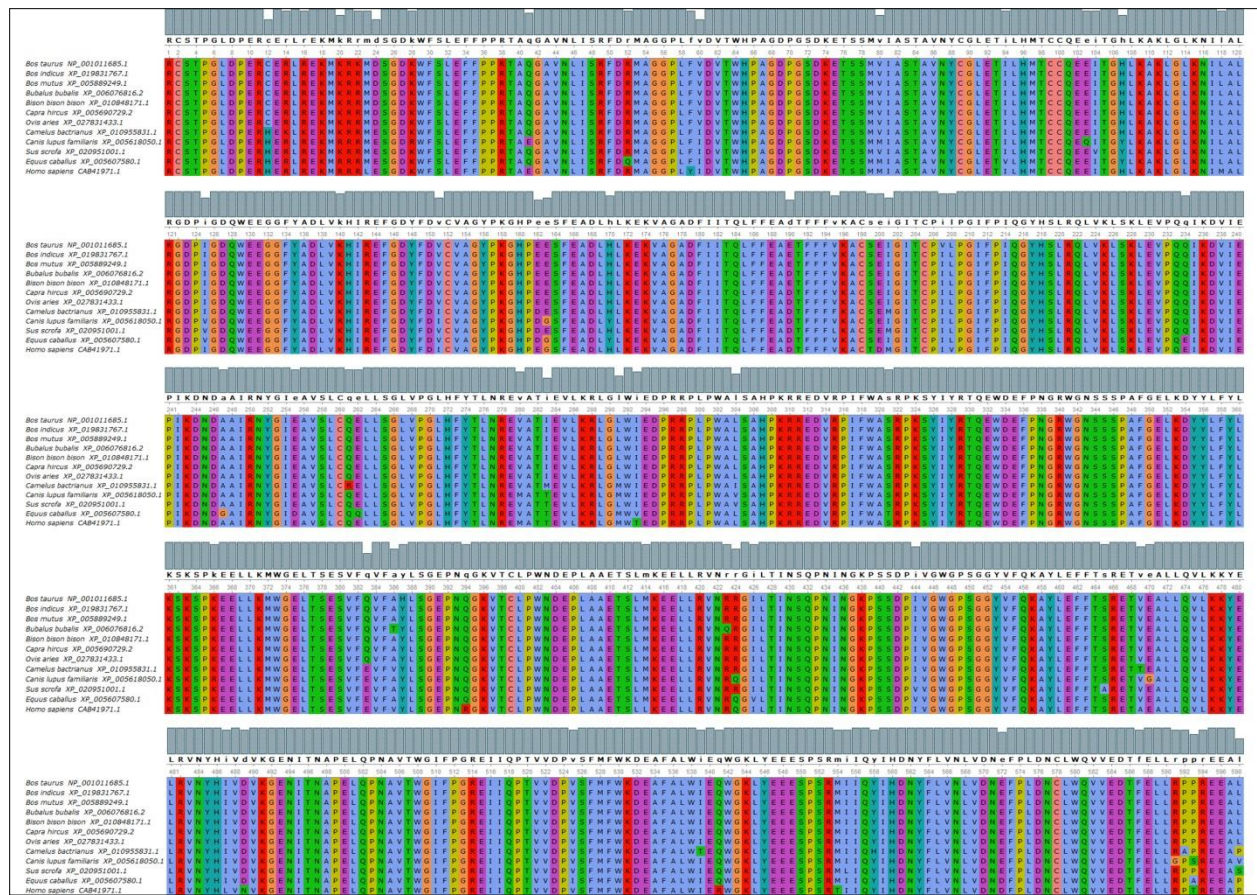


Supplementary figures

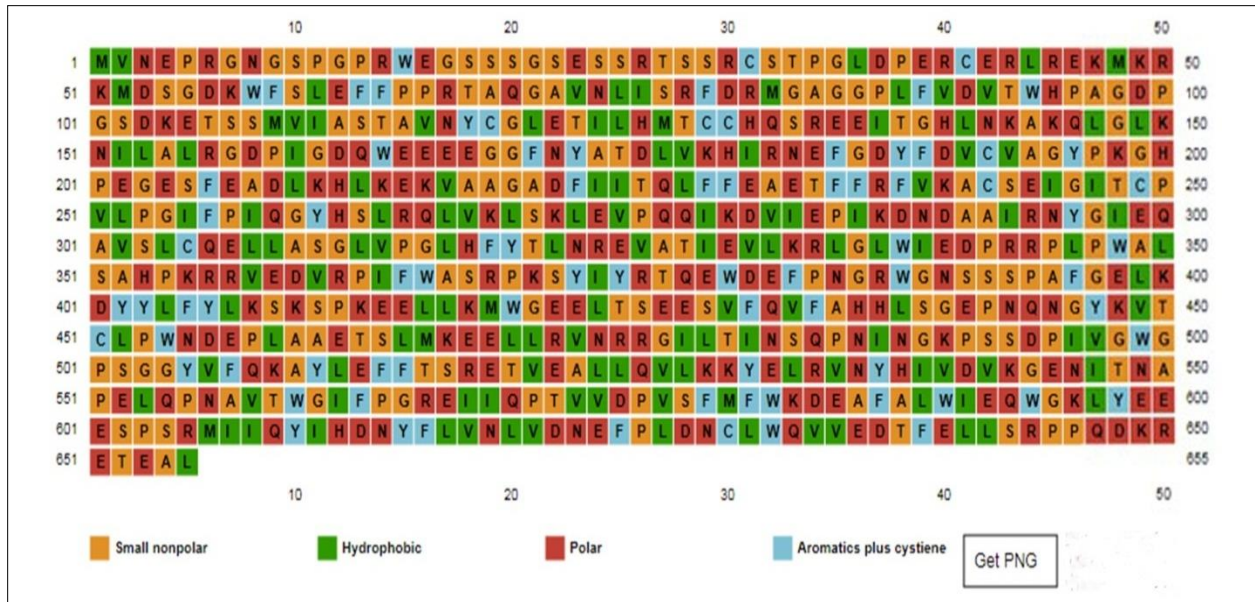
Supplementary figures (SF)



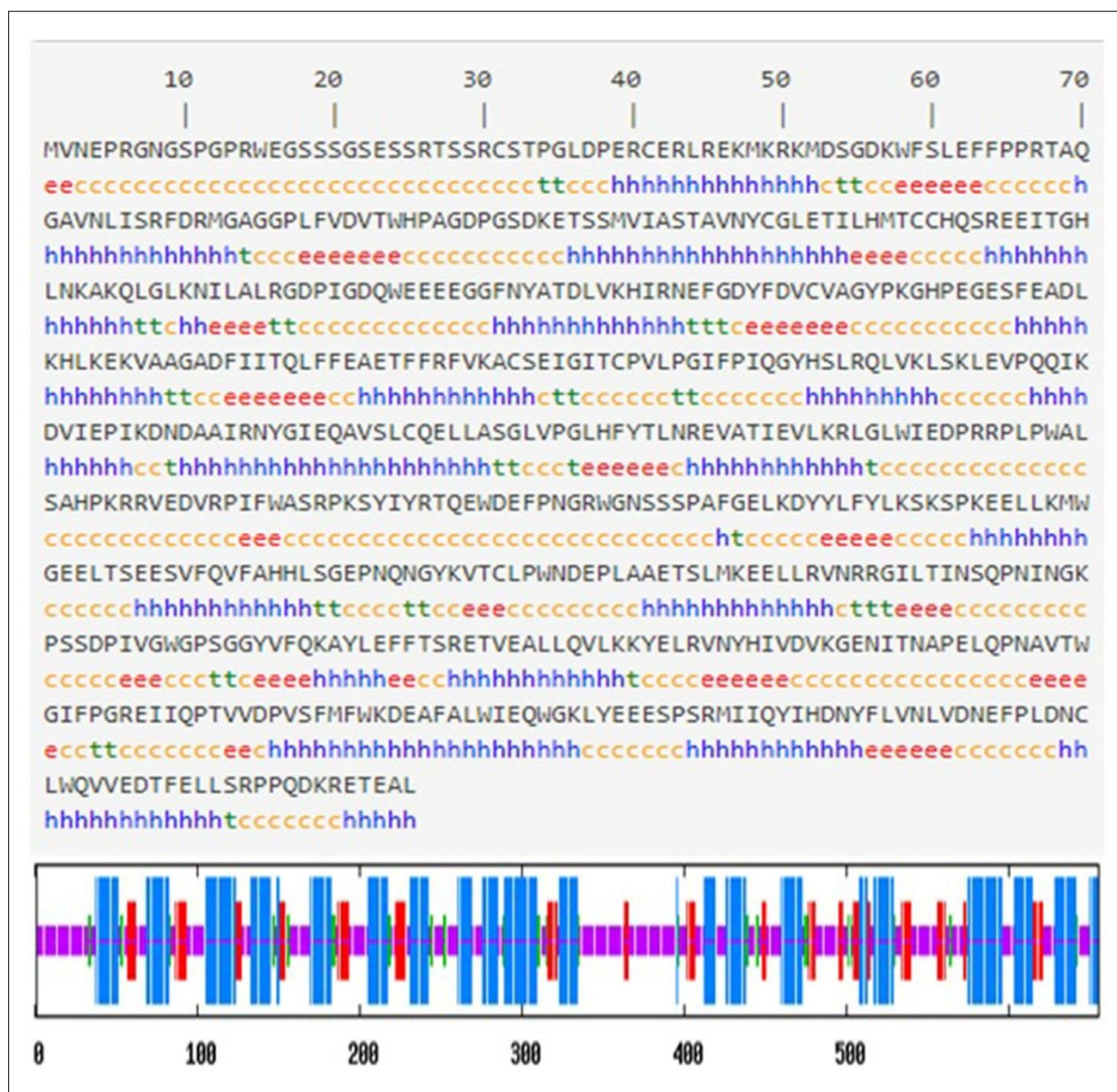
Supplementary figure 1. ORF analysis of yellow-cattle (*Bos taurus*) MTHFR sequence.



Supplementary figure 2. Multiple sequence alignment of amino acid sequences of closely related species



Supplementary figure 3. Aspects of the chemical composition of yellow-cattle MTHFR protein



Supplementary figure 4. Predicted secondary structure of *Bos taurus* MTHFR. The long vertical zone: Alpha helix (h); The middle vertical zone: Extended strand (e); The short vertical zone: Random coil (c). The secondary structure was predicted by SOPMA online software