Supplementary Figures

Identification of a residue crucial for the angiostatic activity of human mini tryptophanyl-tRNA synthetase by focusing on its molecular evolution

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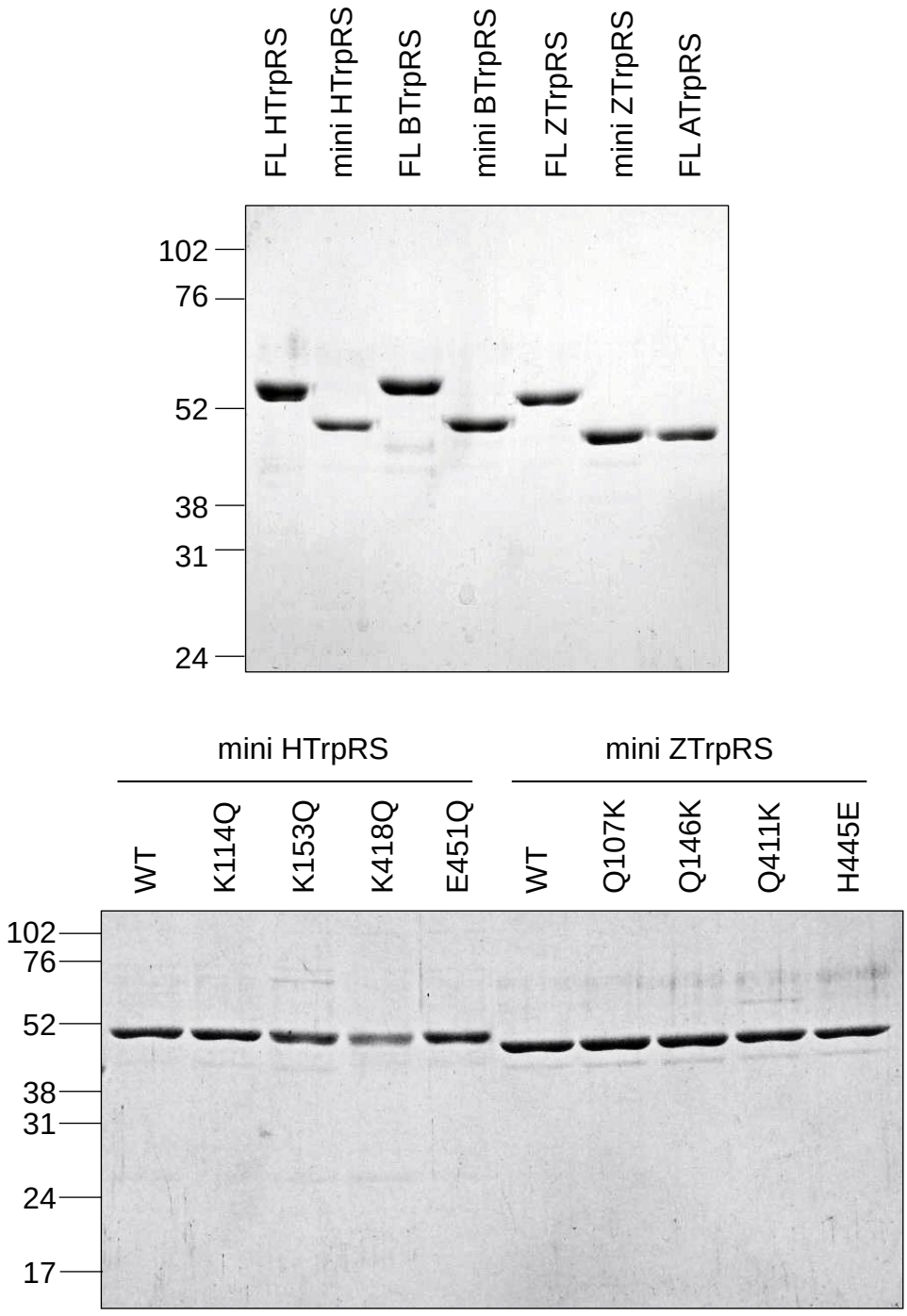
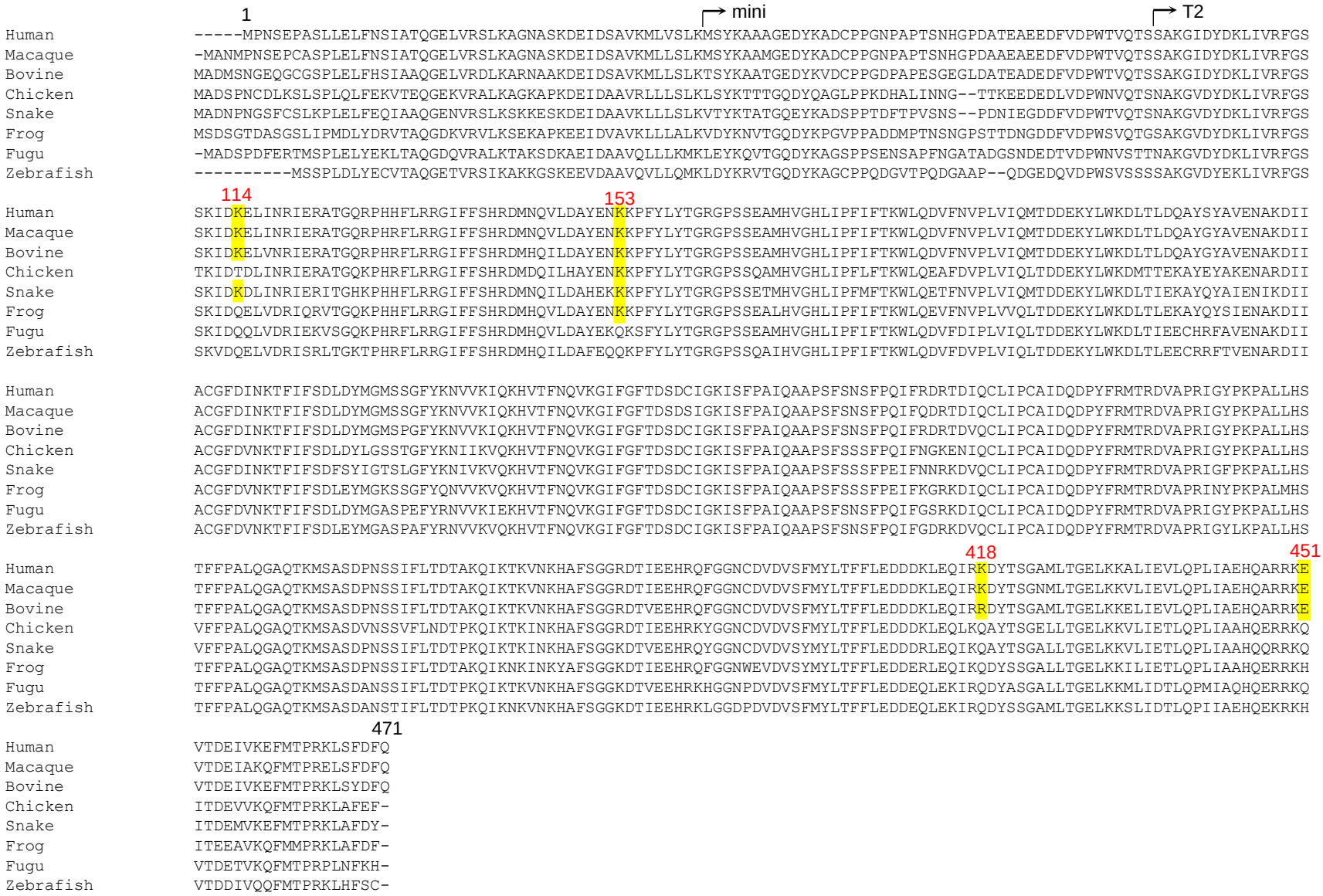


Supplementary Figure S1. SDS-polyacrylamide gel electrophoresis of human, bovine, zebrafish and arabidopsis TrpRS constructs used in this study. The samples were analyzed on a 12.0% SDS-polyacrylamide gel and stained with Coomassie Blue. Molecular size markers (in kilodaltons) are shown at the left.



Supplementary Figure S2. Sequence alignments among vertebrate TrpRS proteins. Multiple sequence alignment was performed by Clustal W with manual adjustments. Gaps in the sequences are indicated by dashes. Numbers above the sequences correspond to those of the residues of human TrpRS. Conserved crucial acidic (Glu or Asp) and basic (Arg or Lys) residues are highlighted in yellow.