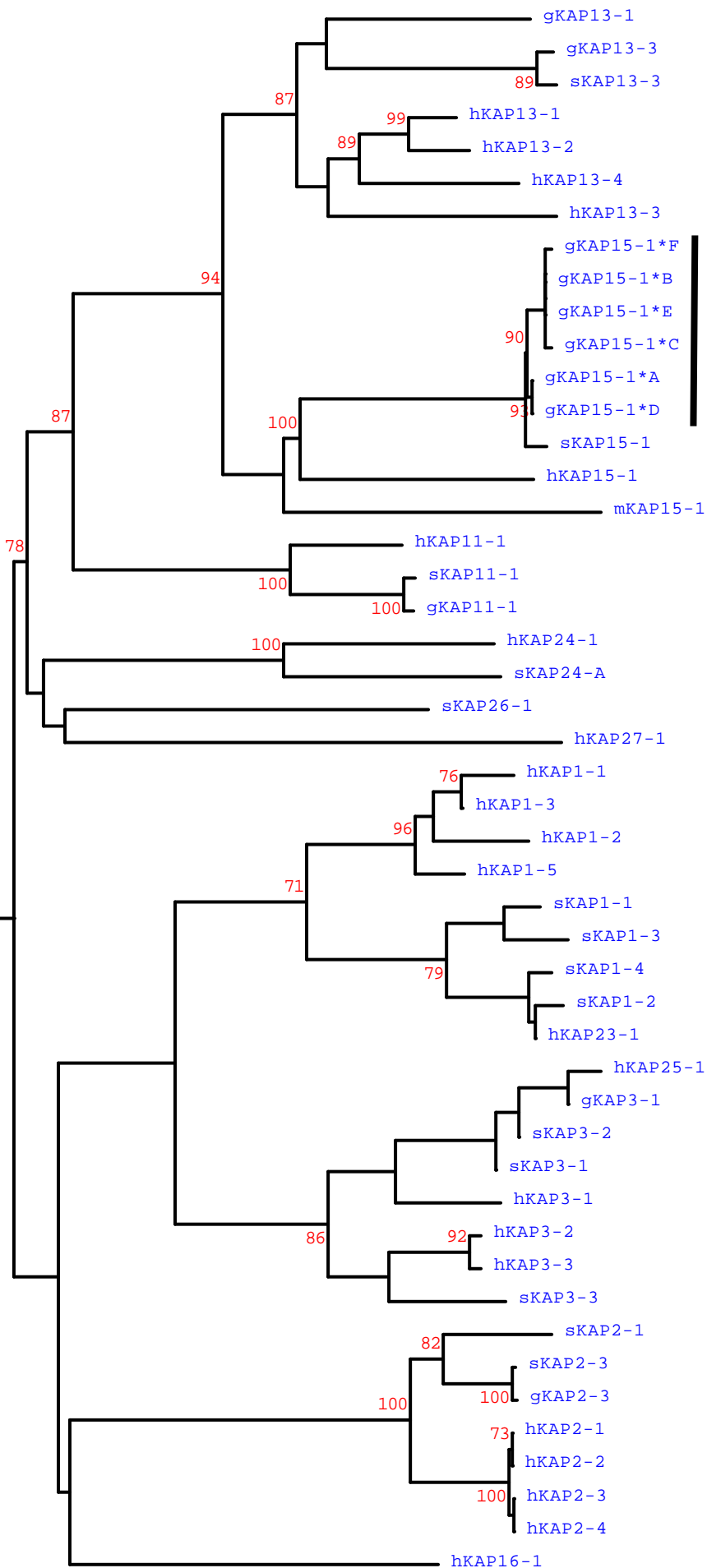


0.05



**Figure 4. Phylogenetic tree of HS-KAPs from goats, sheep, humans, and mice.** The tree was constructed using the amino acid sequences, or the predicted amino acid sequences. The caprine KAPs are indicated with a prefix “g”, while the sequences of sheep, human, and mouse are indicated with prefix “s”, “h”, and “m” respectively. The numbers at the forks indicate the bootstrap confidence values and only those equal to or higher than 70% are shown. The newly identified caprine KAP15-1 sequences are indicated with a horizontal bar, and the GenBank accession numbers for other HS-KAPs are: NM\_001285774 (gKAP3-1), NM\_001285767.1 (gKAP11-1), AY510115 (gKAP13-1), JX426138 (gKAP13-3), X01610 (sKAP1-1 and sKAP1-4), HQ897975 (sKAP1-2), NM\_001159761 (sKAP1-3), P02443 (sKAP2-1), U60024 (sKAP2-3), M21099 (sKAP3-1), M21100 (sKAP3-2), M21103 (sKAP3-3), HQ595352 (sKAP11-1), JN377429 (sKAP13-3), MH742372 (sKAP15-1), JX112014 (sKAP24-1), KX644903 (sKAP26-1), NM\_030967.2 (hKAP1-1), NM\_030966.1 (hKAP1-3), NM\_001257305.1 (hKAP1-4), NM\_031957.1 (hKAP1-5), NM\_001123387.1 (hKAP2-1), NM\_033032.2 (hKAP2-2), NM\_001165252.1 (hKAP2-3), NM\_033184.3 (hKAP2-4), NM\_031958.1 (hKAP3-1), NM\_031959.2 (hKAP3-2), NM\_033185.2 (hKAP3-3), NM\_175858.2 (hKAP11-1), NM\_181599.2 (hKAP13-1), NM\_181621.3 (hKAP13-2), NM\_181622.1 (hKAP13-3), NM\_181600.1 (hKAP13-4), NM\_181623.1 (hKAP15-1), NM\_001146182.1 (hKAP16-1), NM\_181624.1 (hKAP23-1), NM\_001085455.2 (hKAP24-1), NM\_001128598.1 (hKAP25-1), NM\_203405.1 (hKAP26-1), NM\_001077711.1 (hKAP27-1), and NM\_013713 (mKAP15-1).