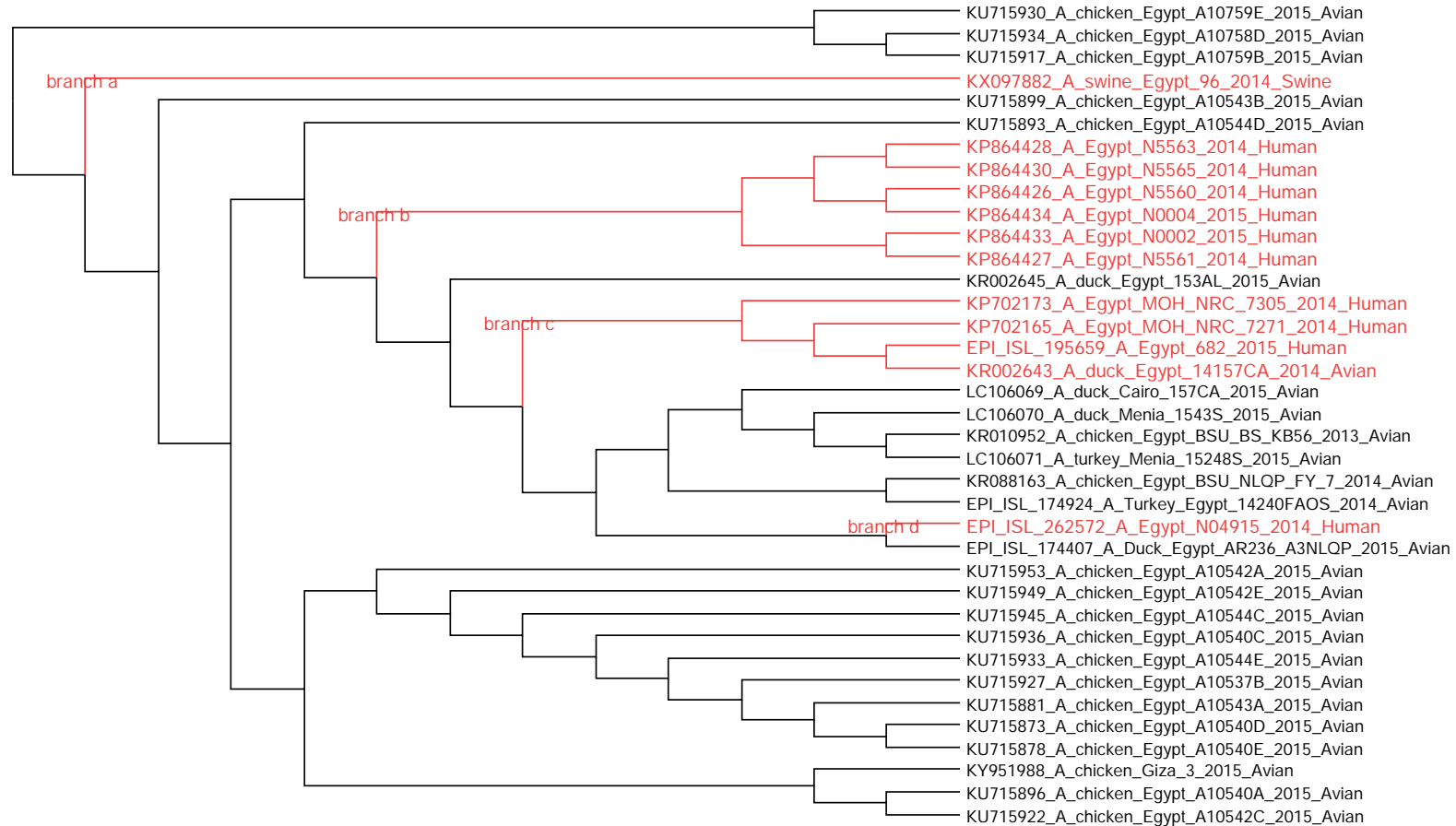
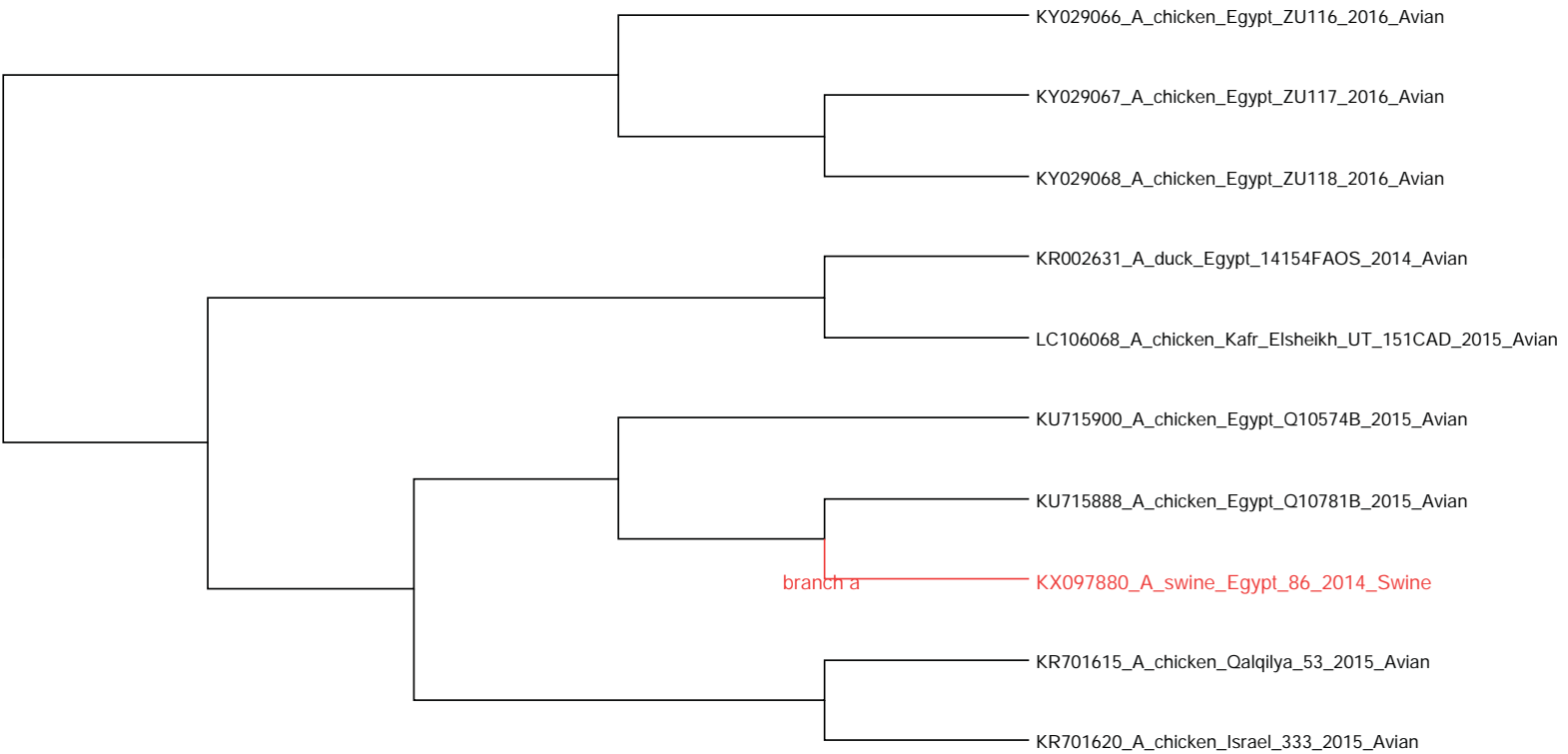


HA-Group1

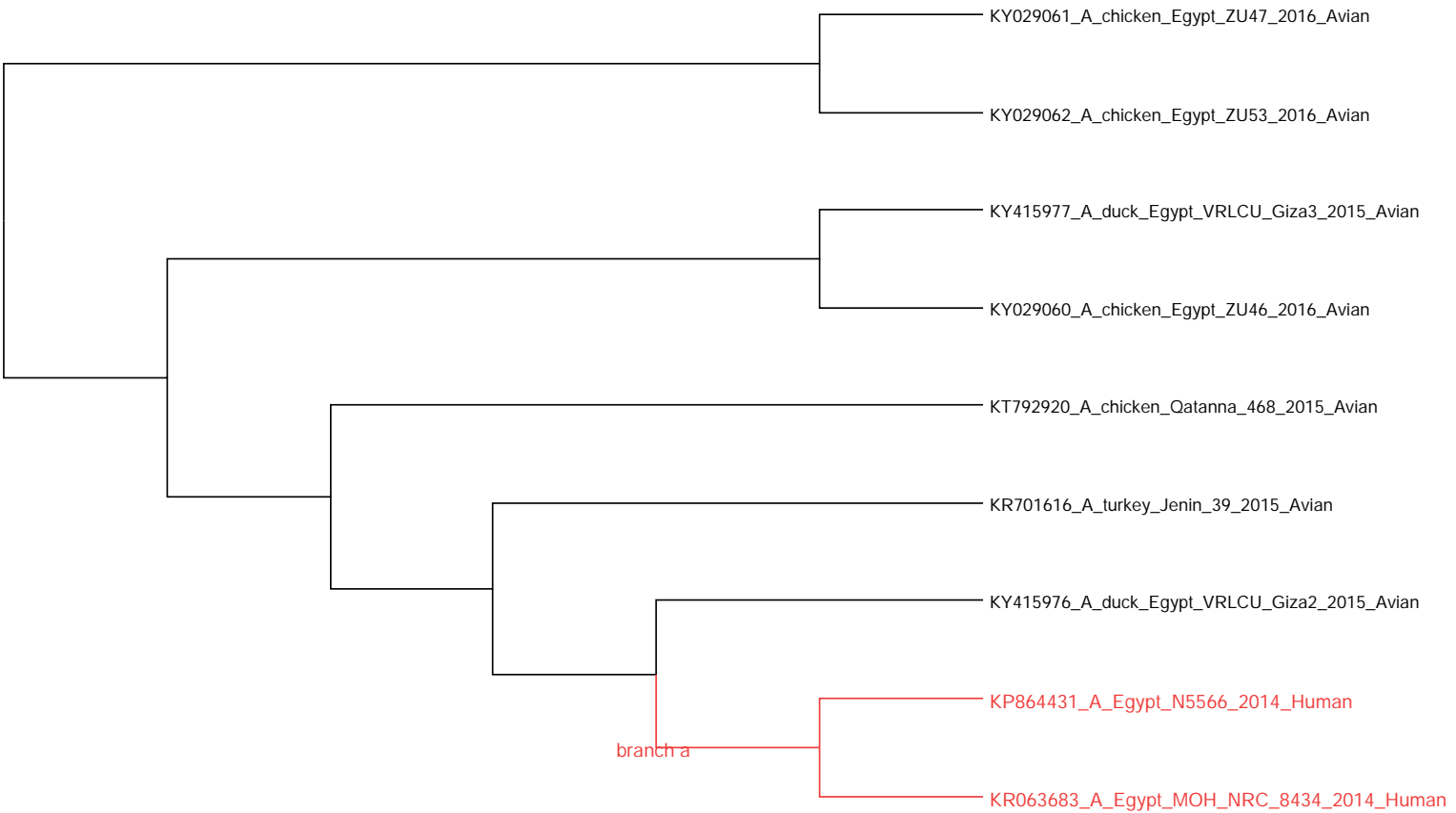
Supplementary Figure 3. 132 phylogenetic trees of HA used for the adaptive evolution analyses. Human strains are marked in red. Branches which have significant signals of positive selection are marked with *.



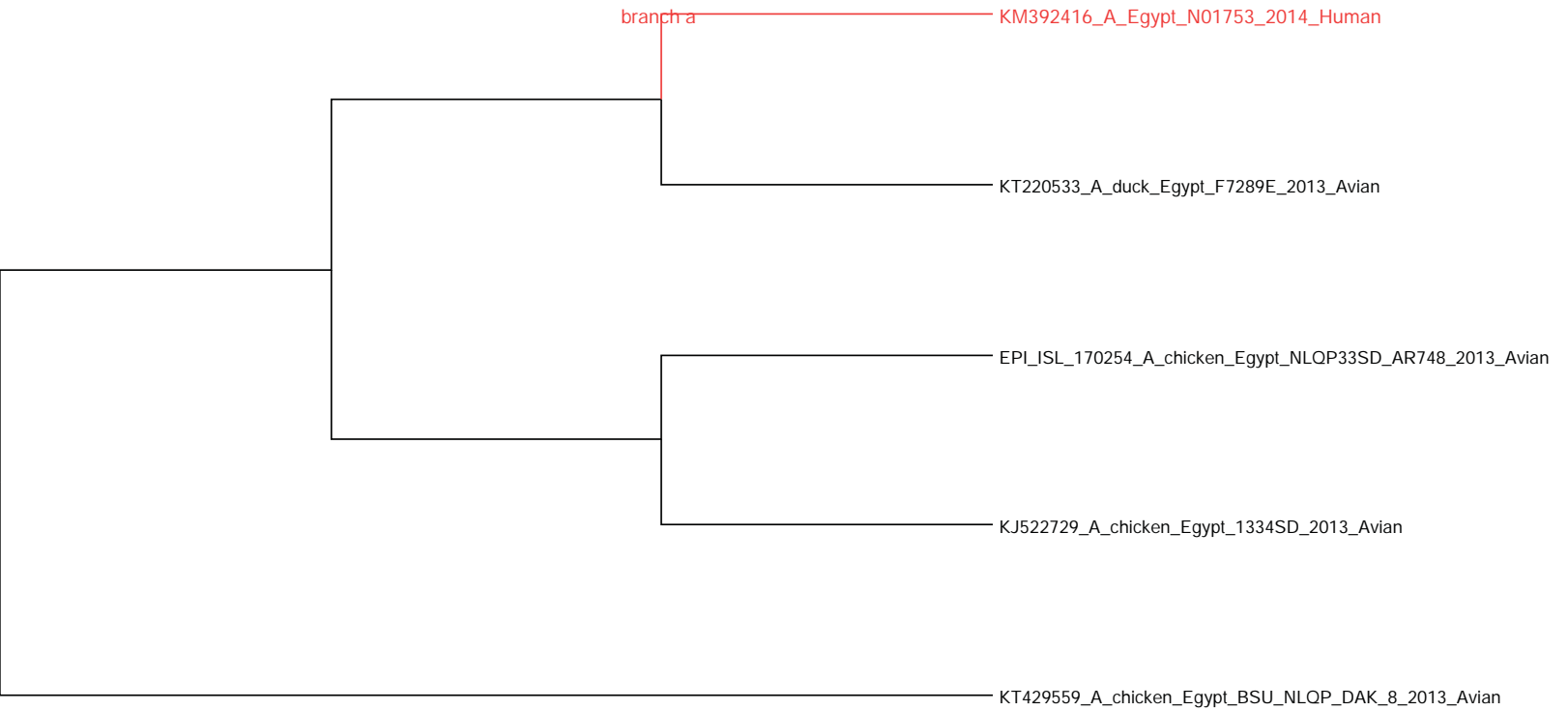
HA-Group2



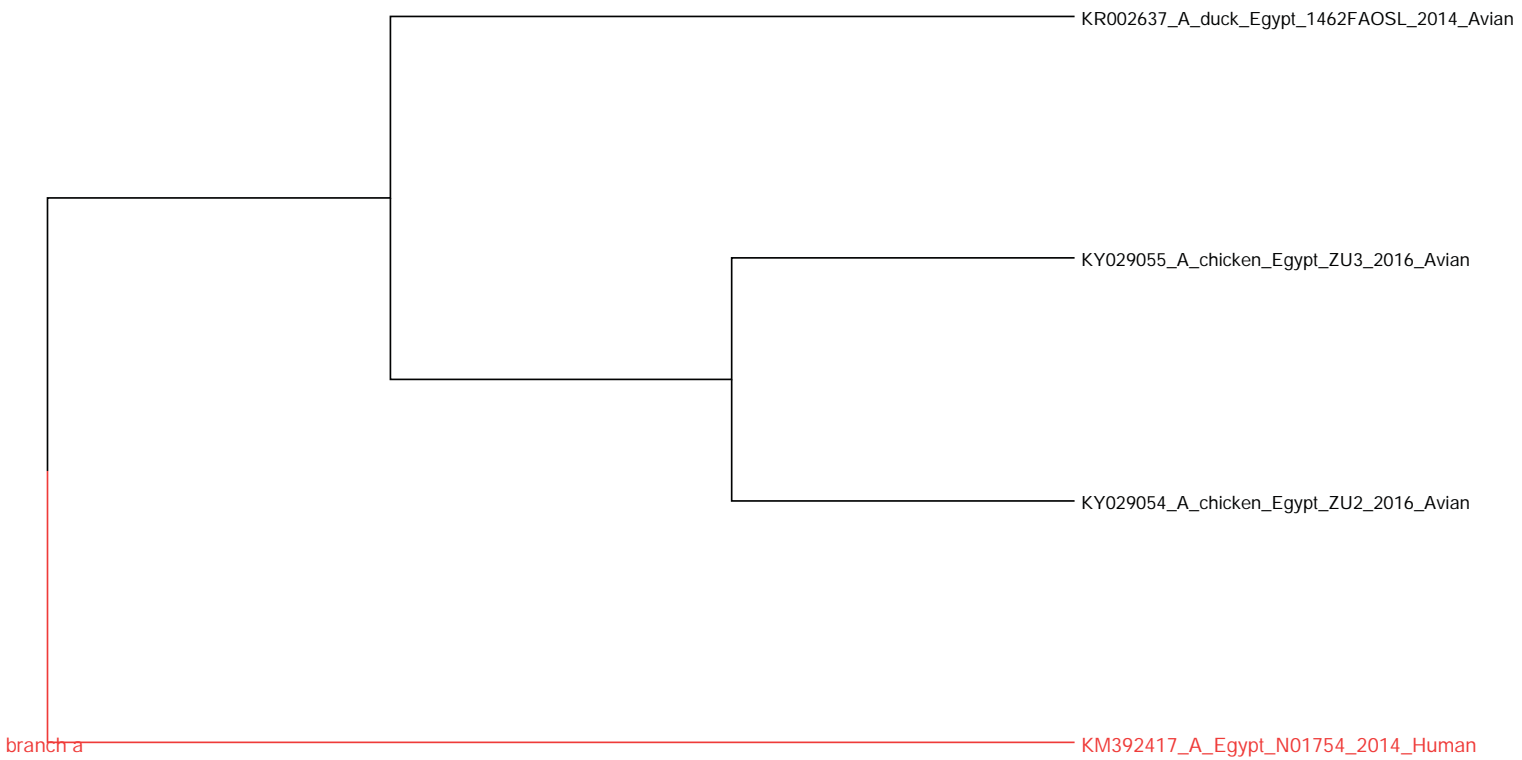
HA-Group3



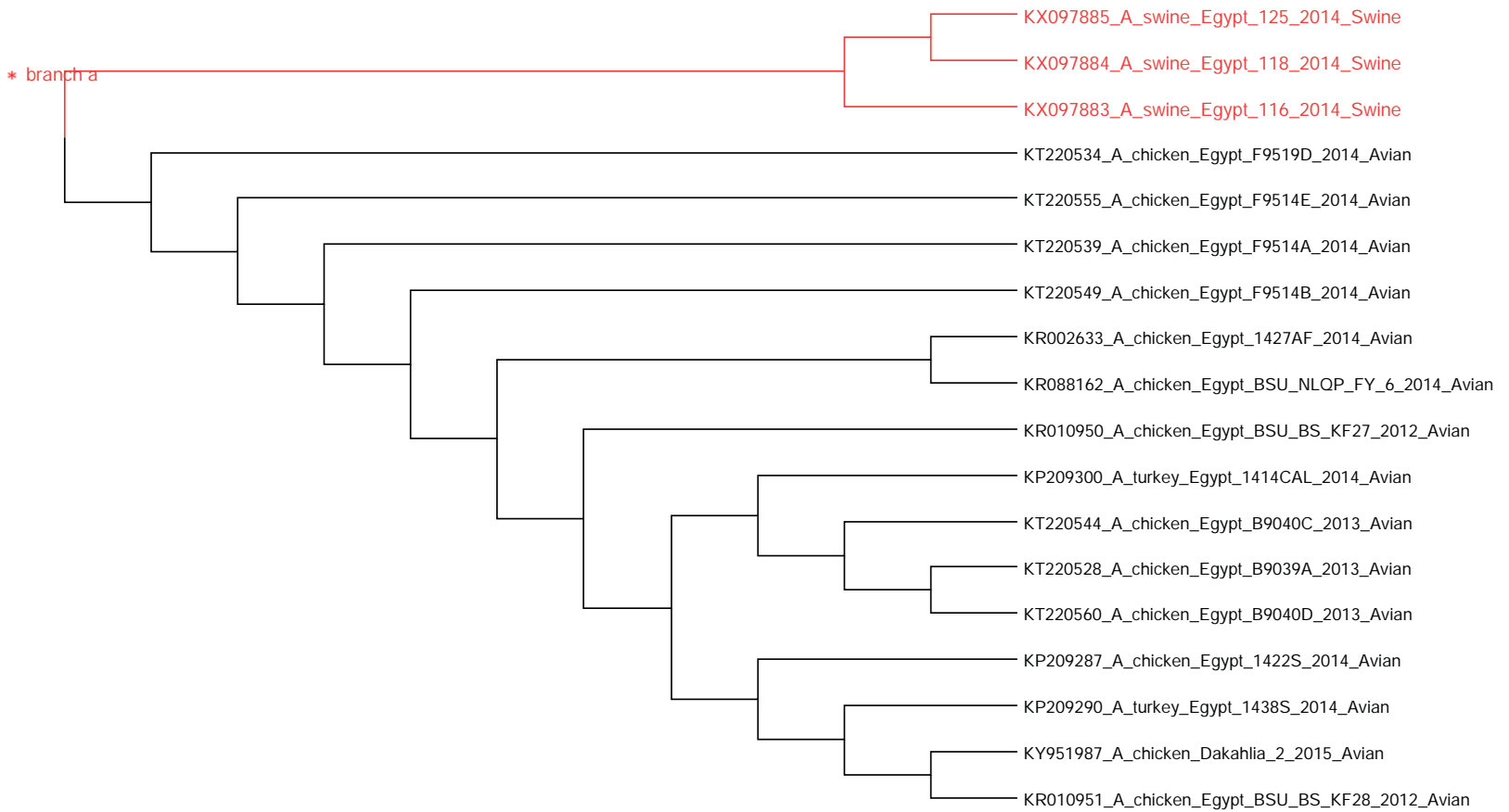
HA-Group4



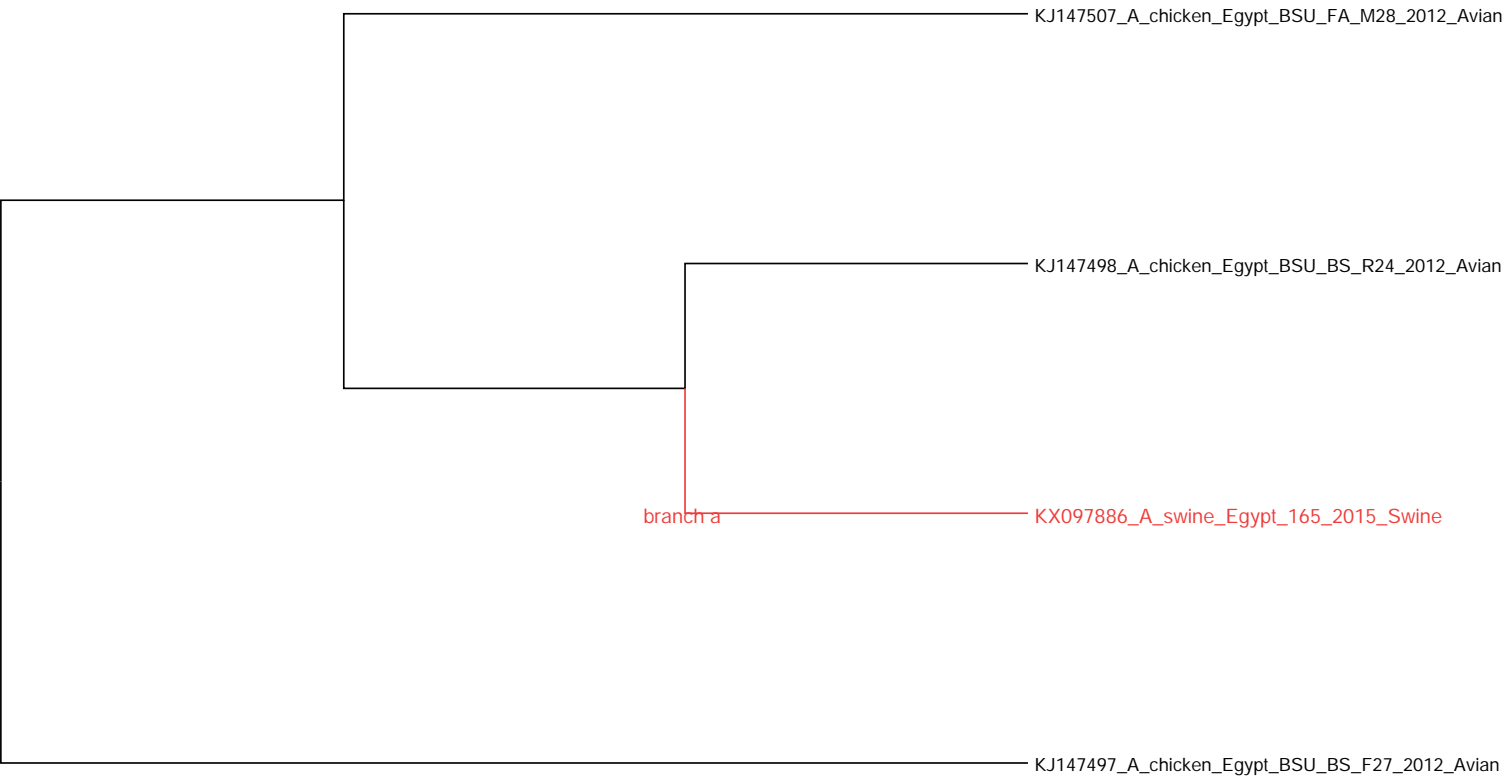
HA-Groups



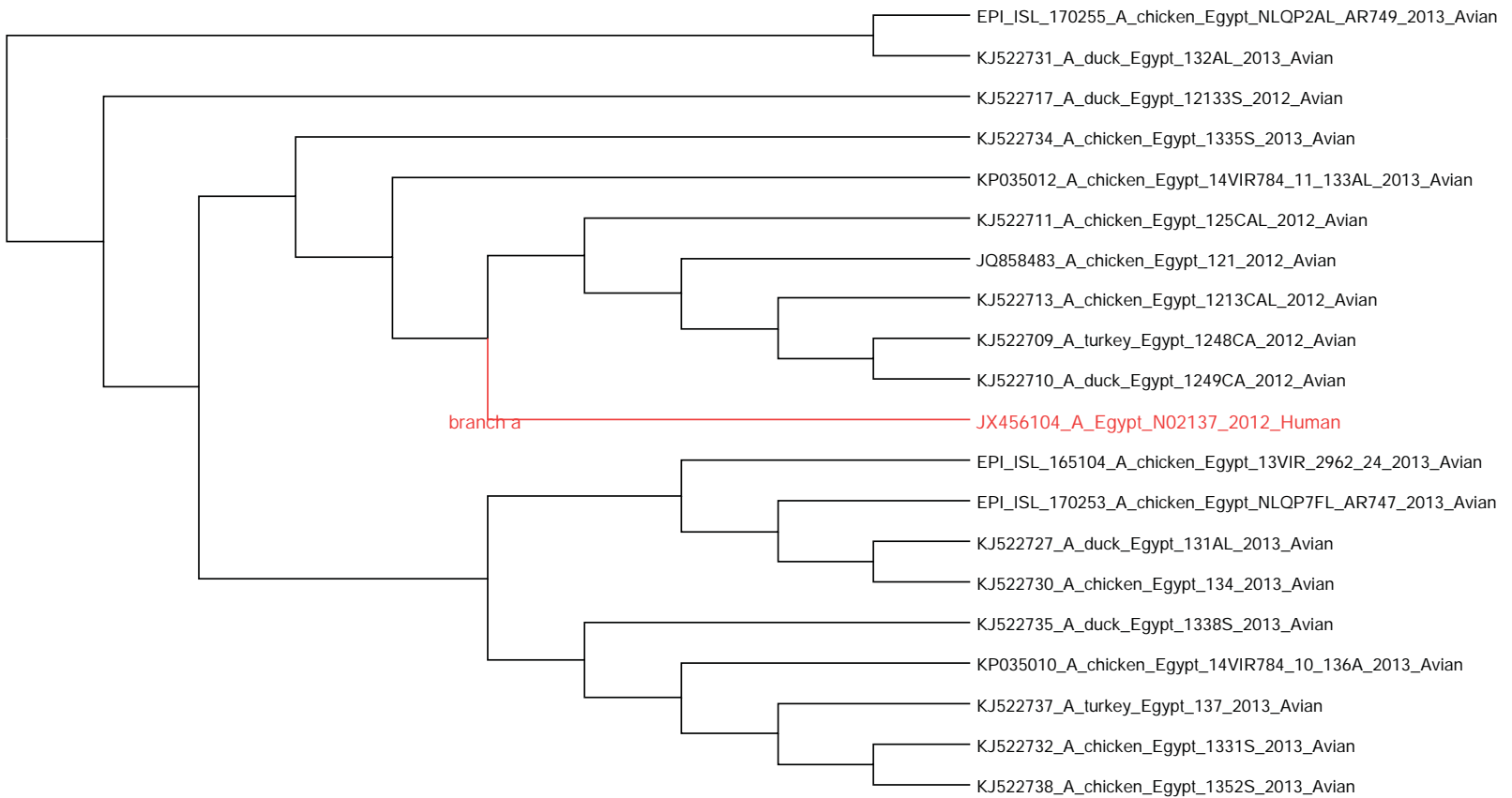
HA-Group6



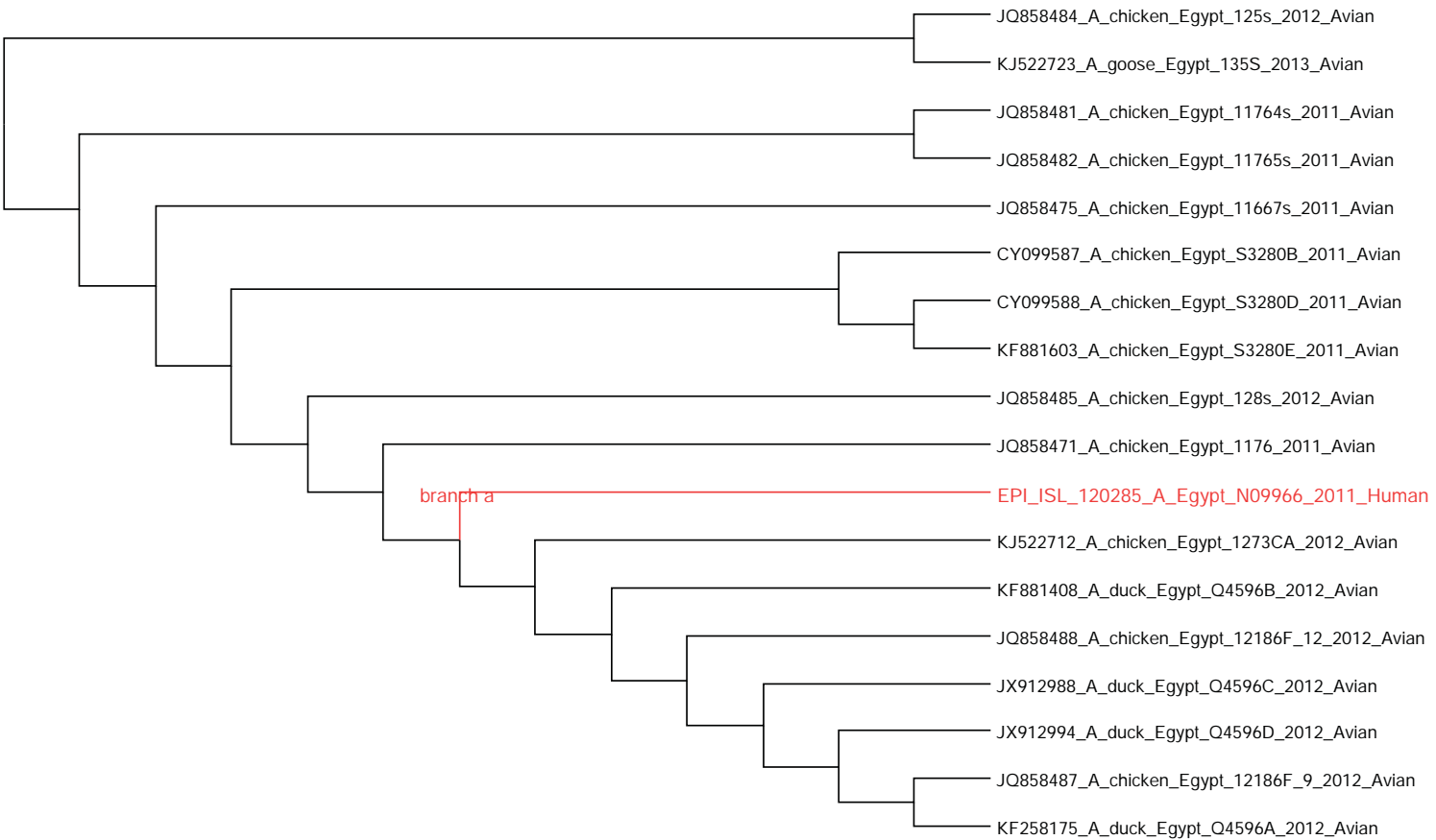
HA-Group7



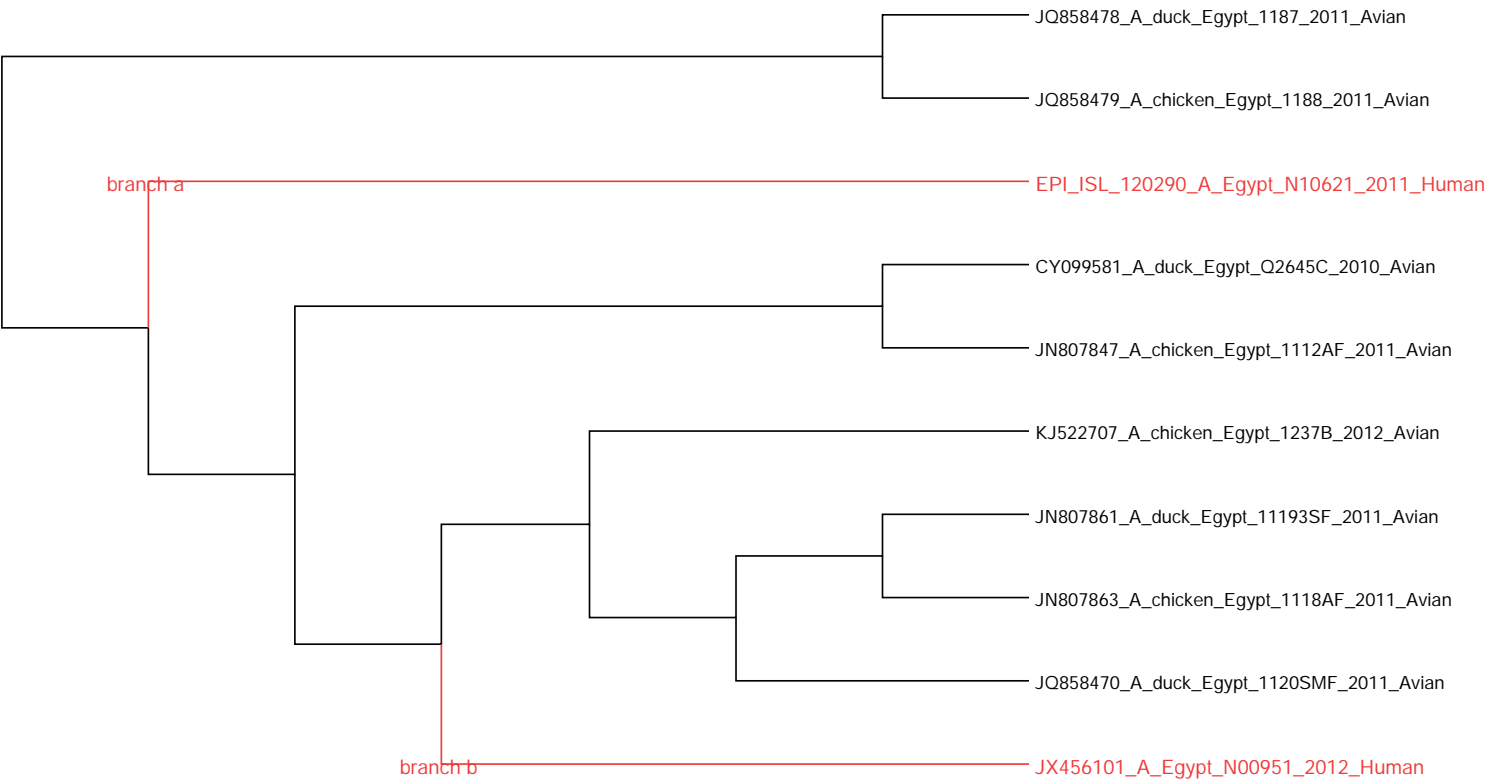
HA-Group8



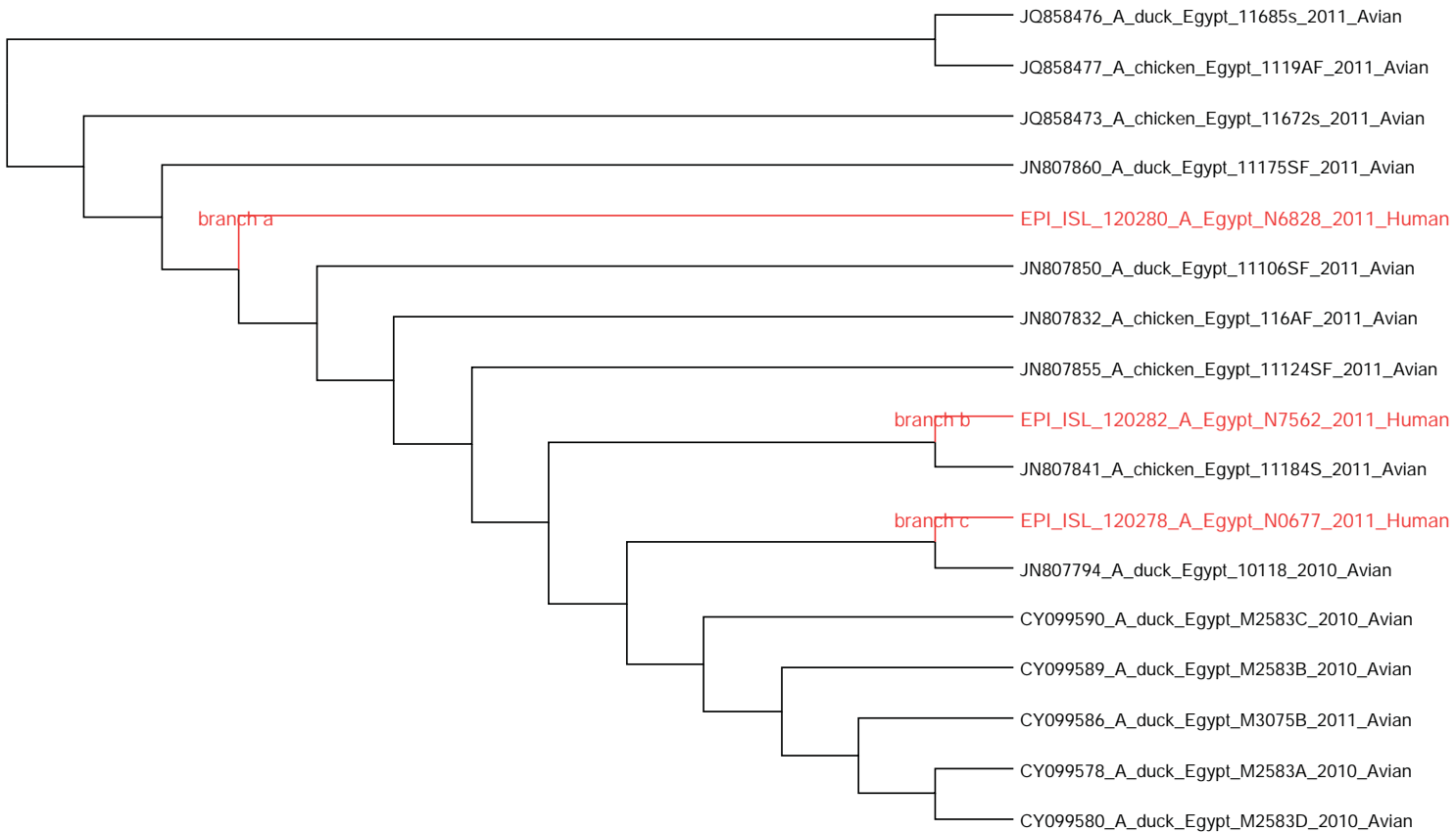
HA-Group9



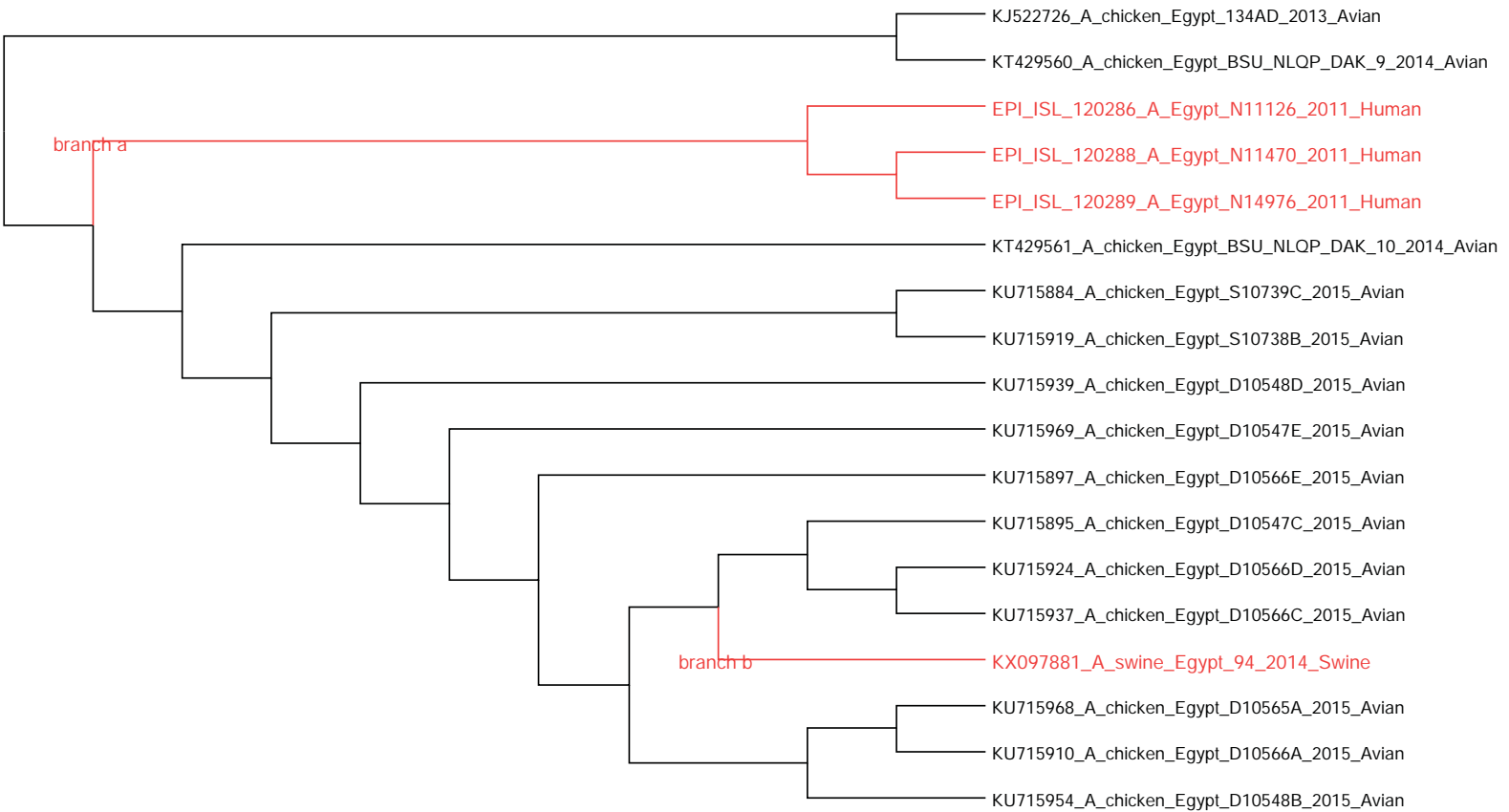
HA-Group10



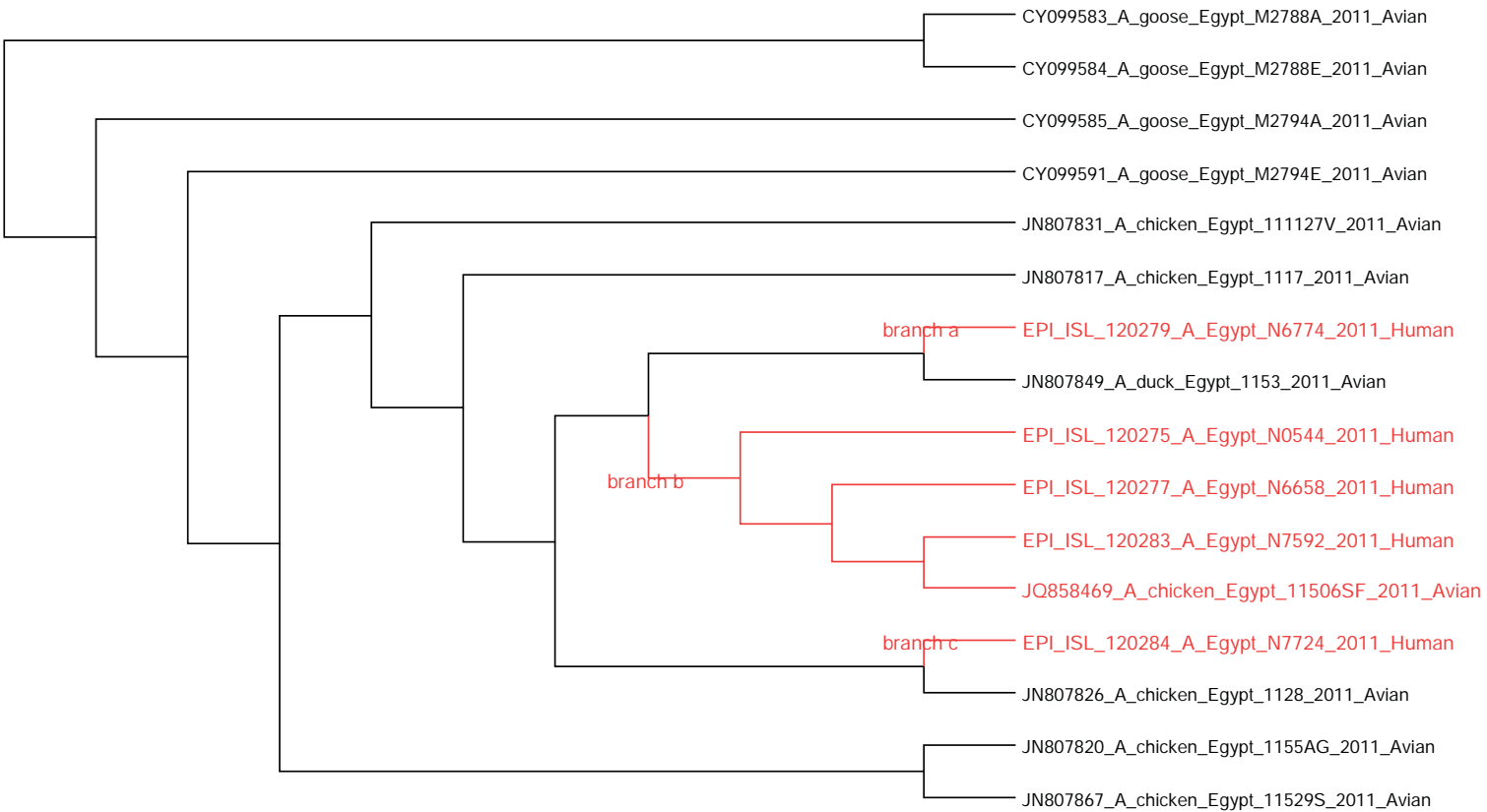
HA-Group 1



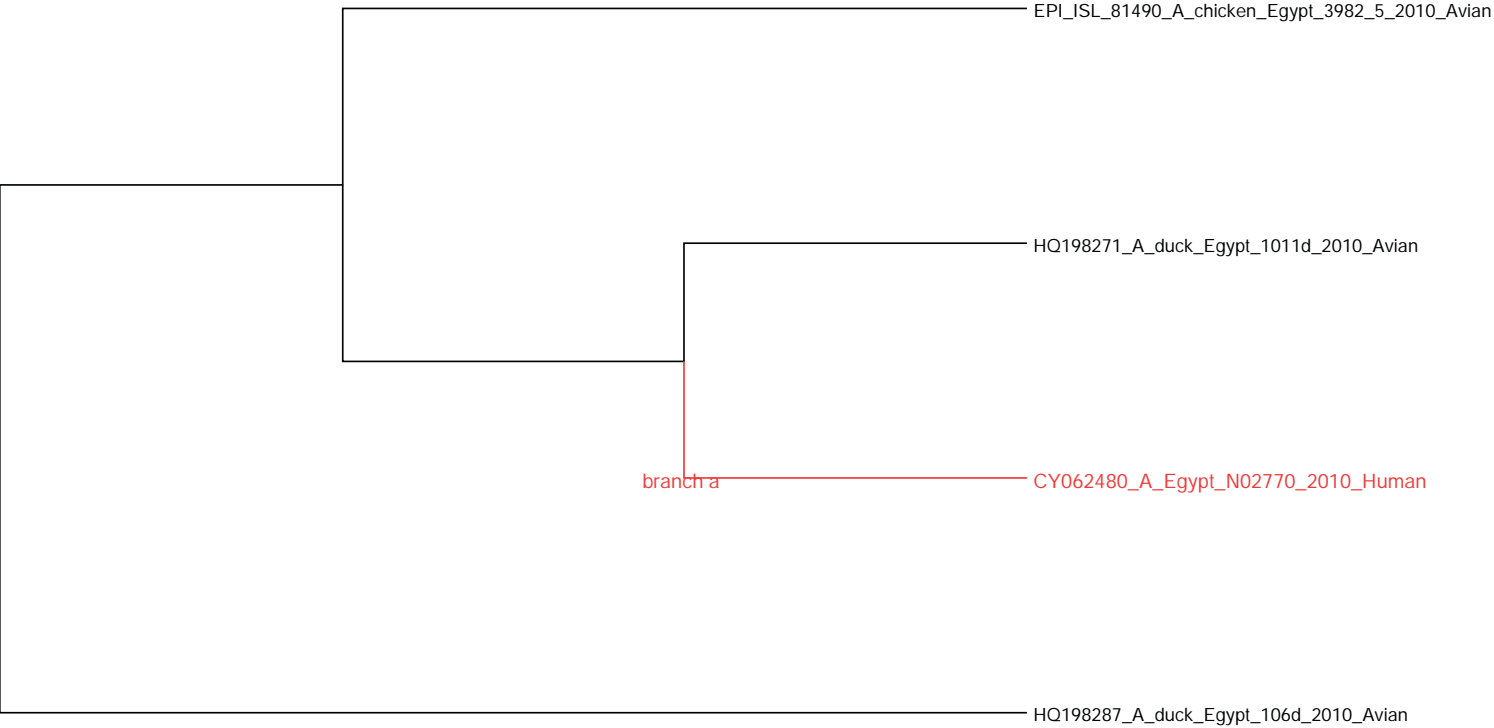
HA-Group12



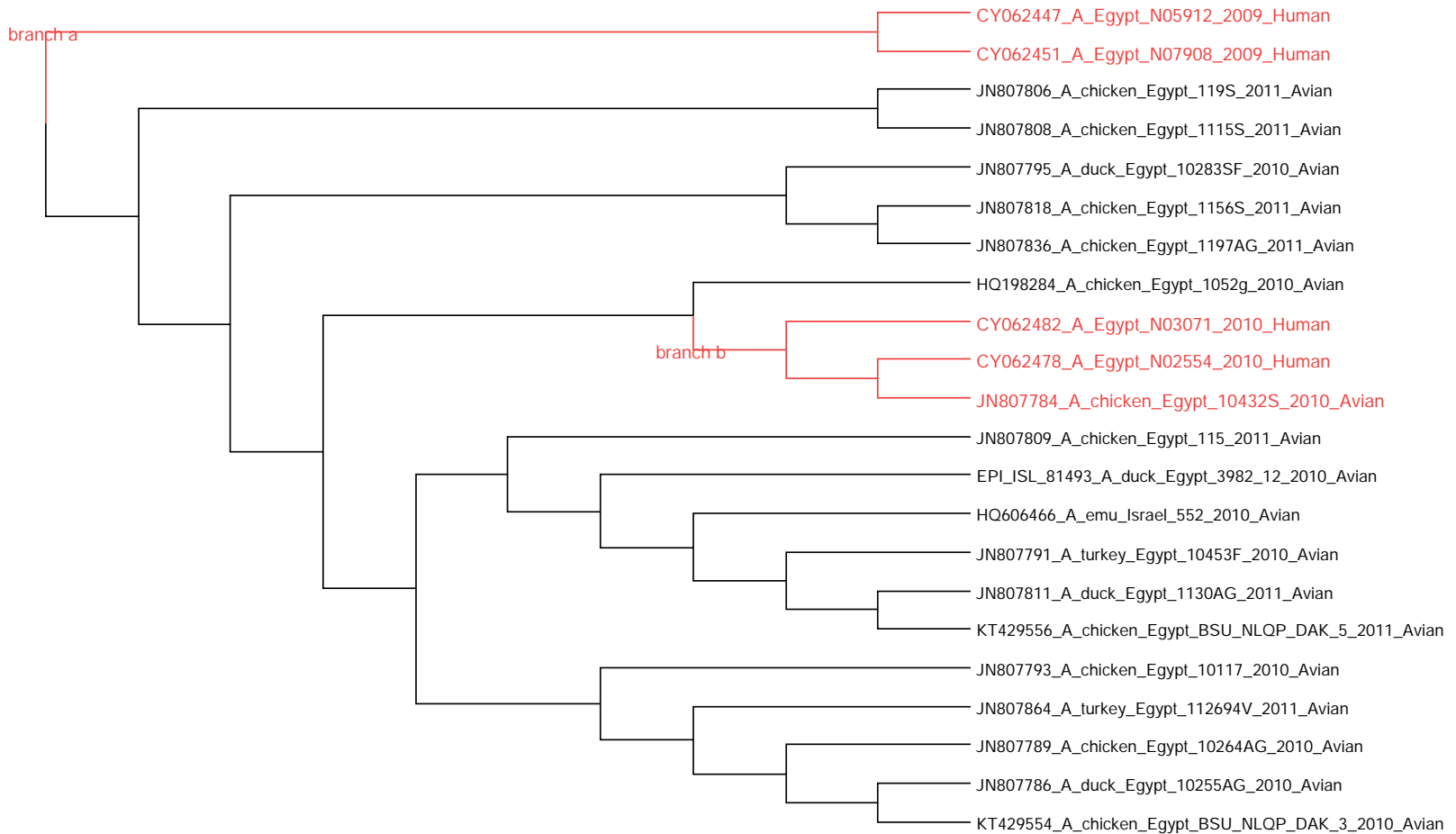
HA-Group13



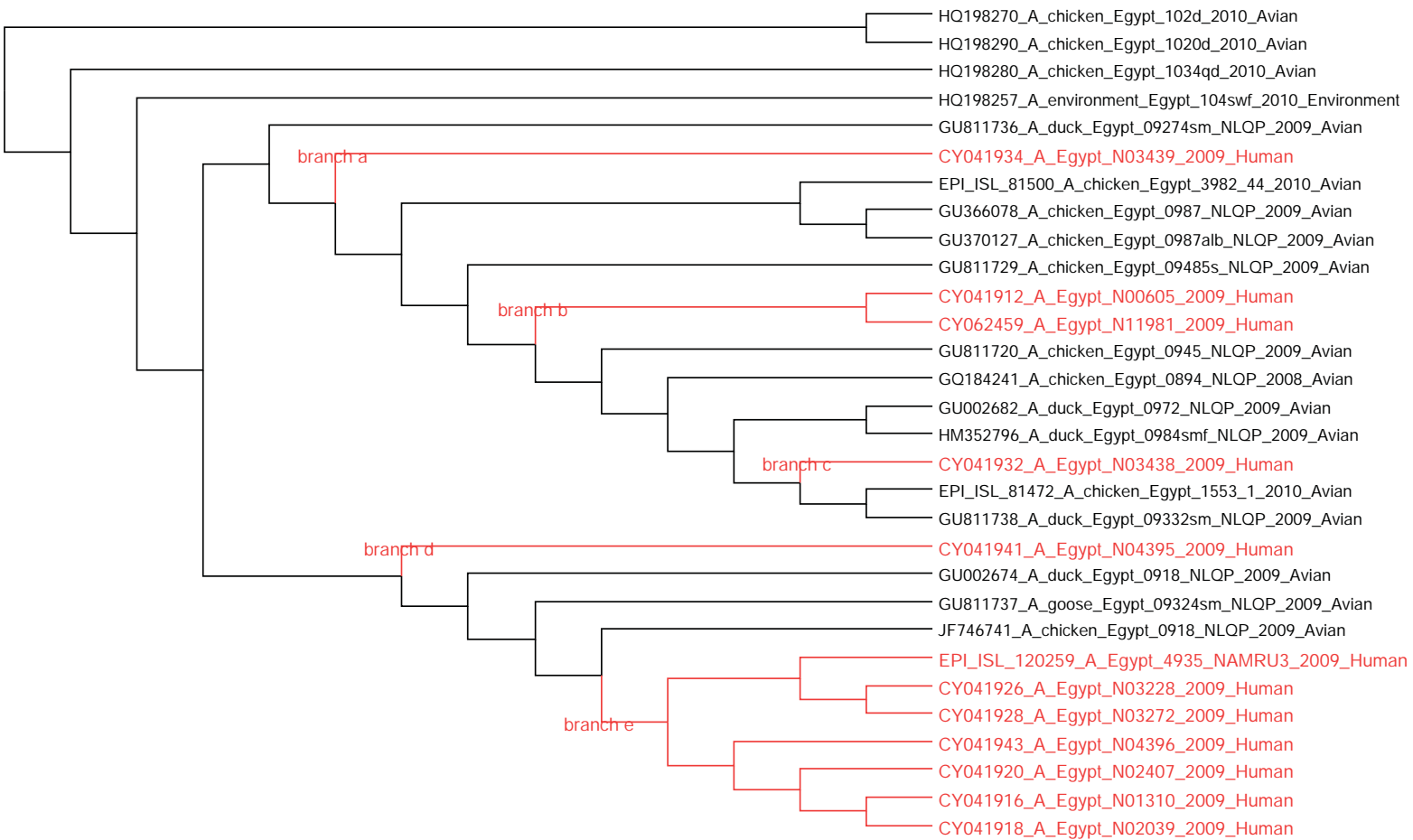
HA-Group 14



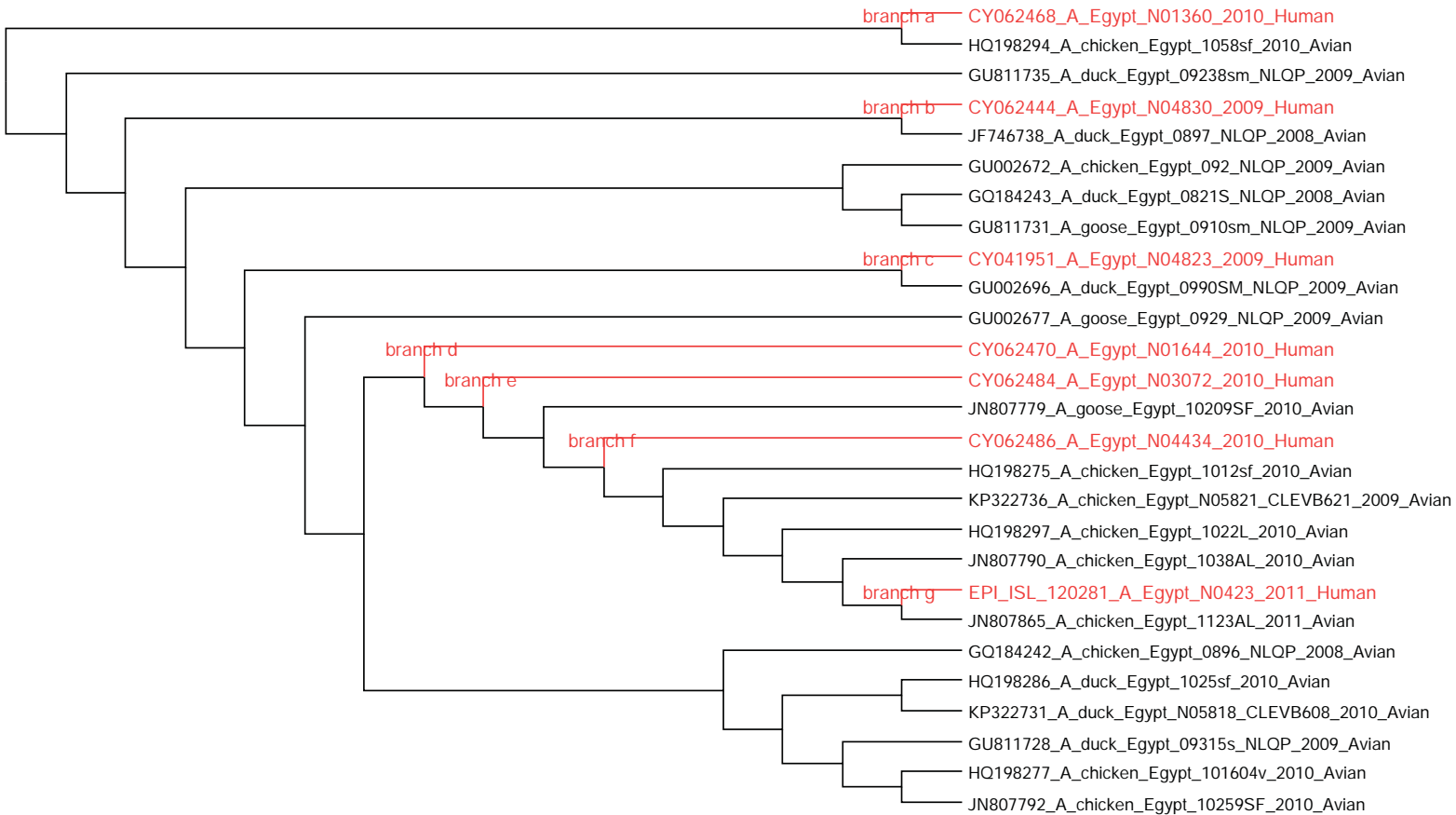
HA-Group 15



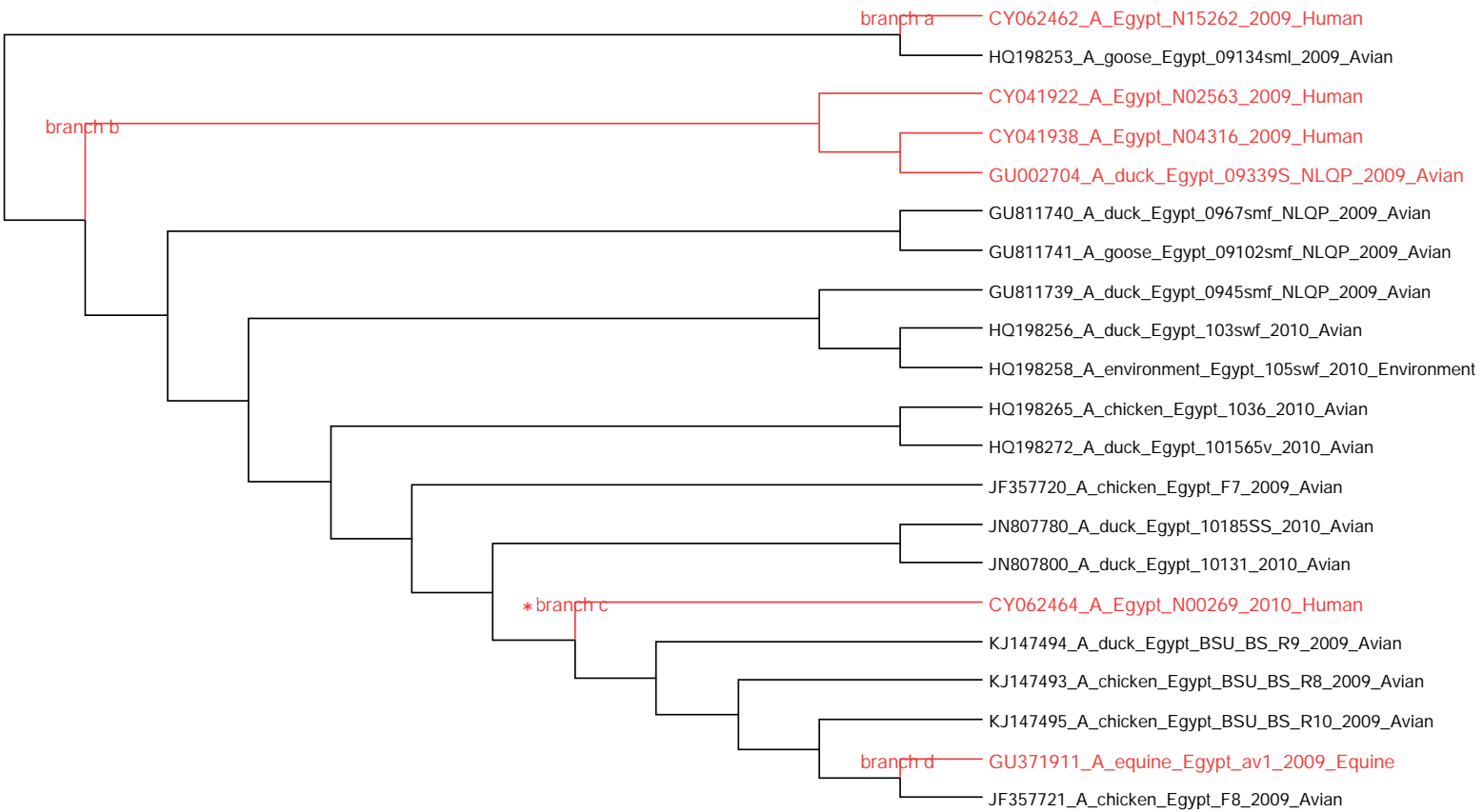
HA-Group16



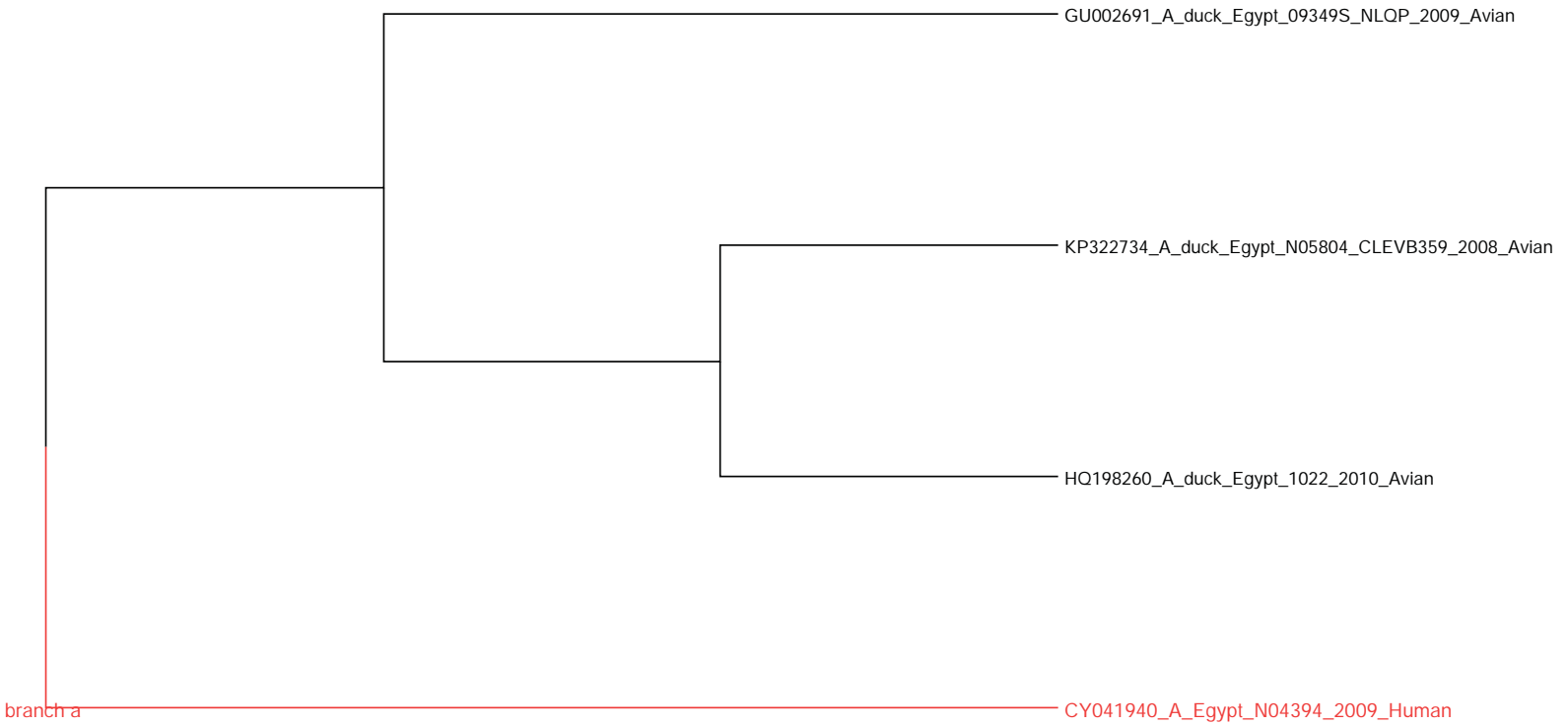
HA-Group17



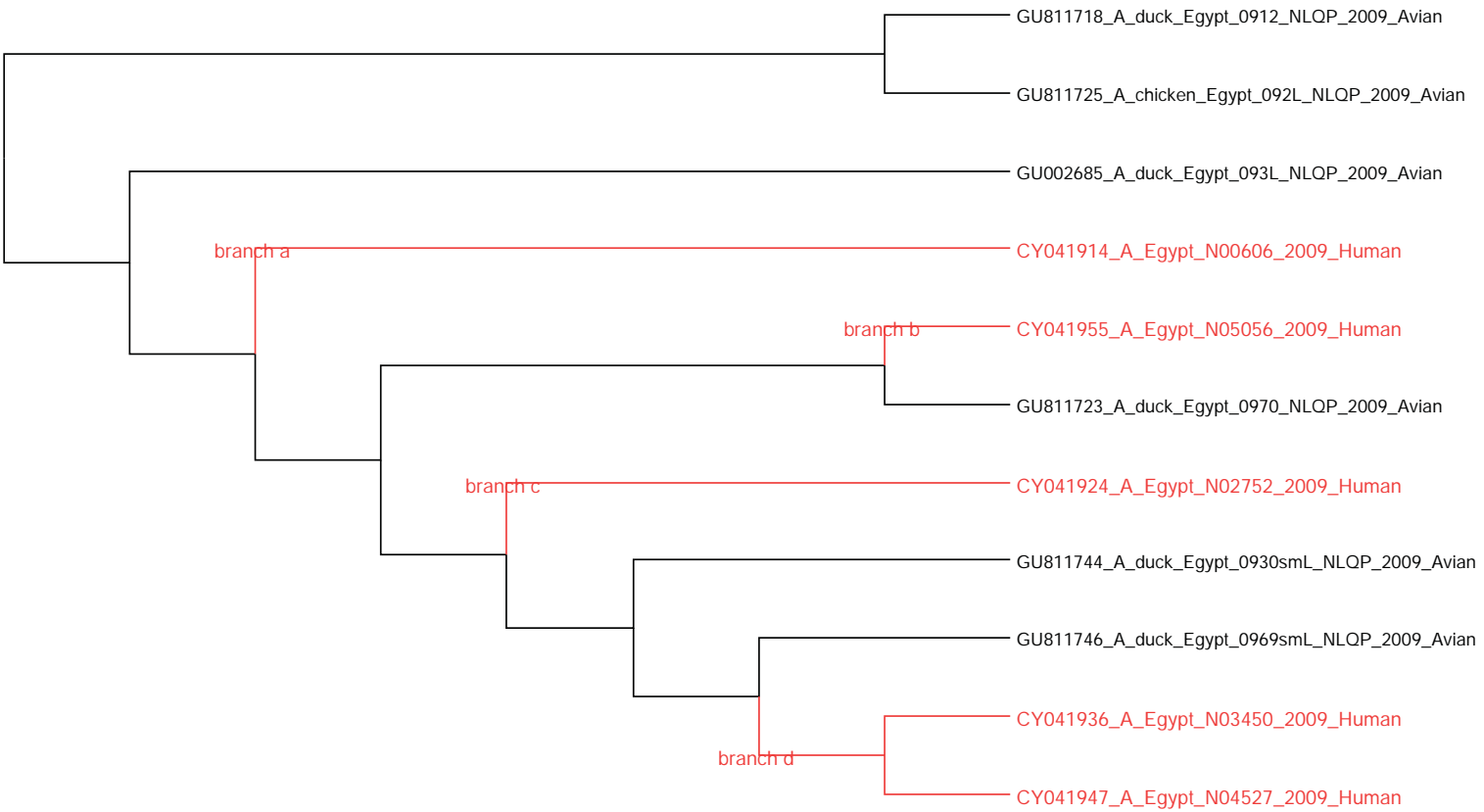
HA-Group 18



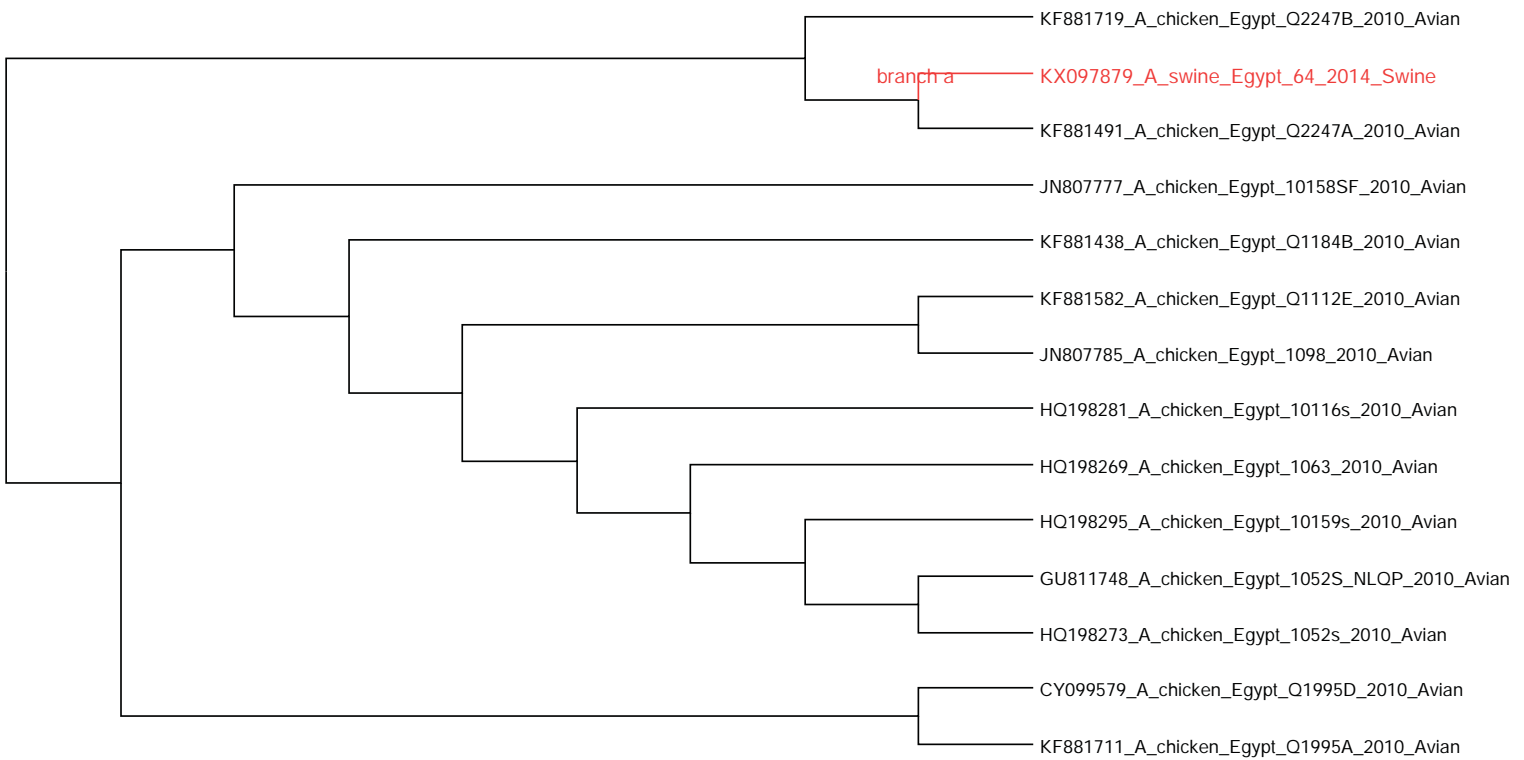
HA-Group19



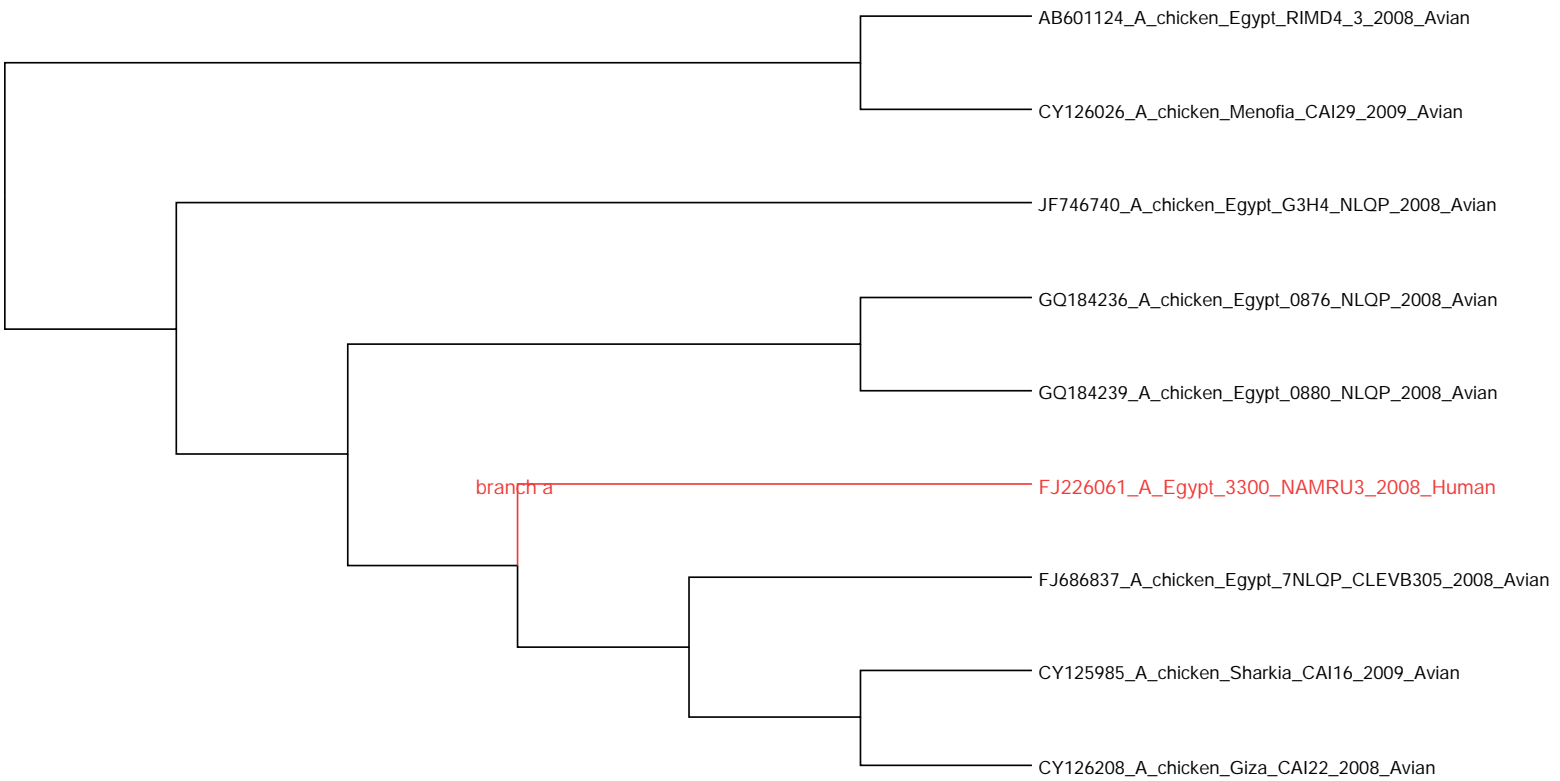
HA-Group20



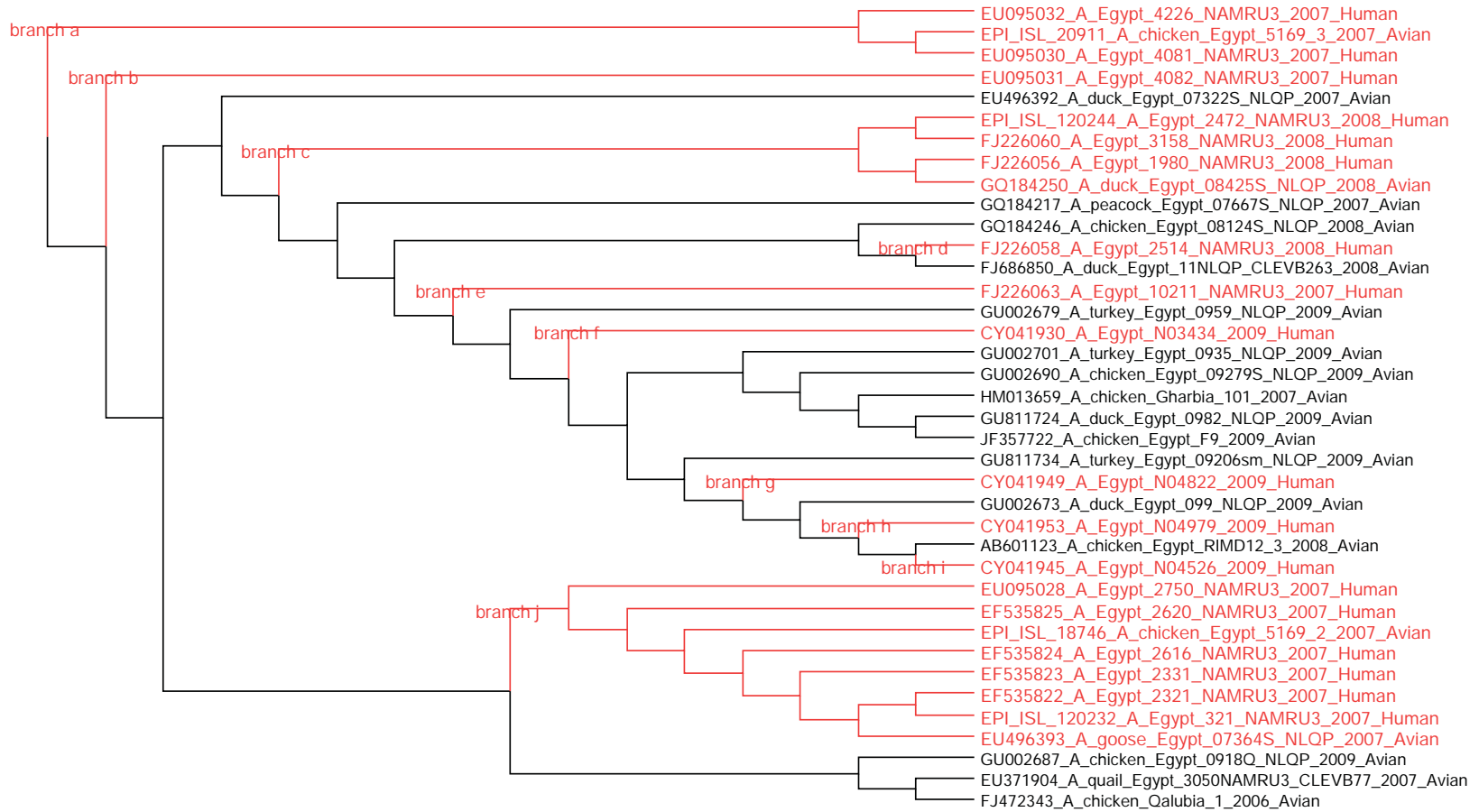
HA-Group21



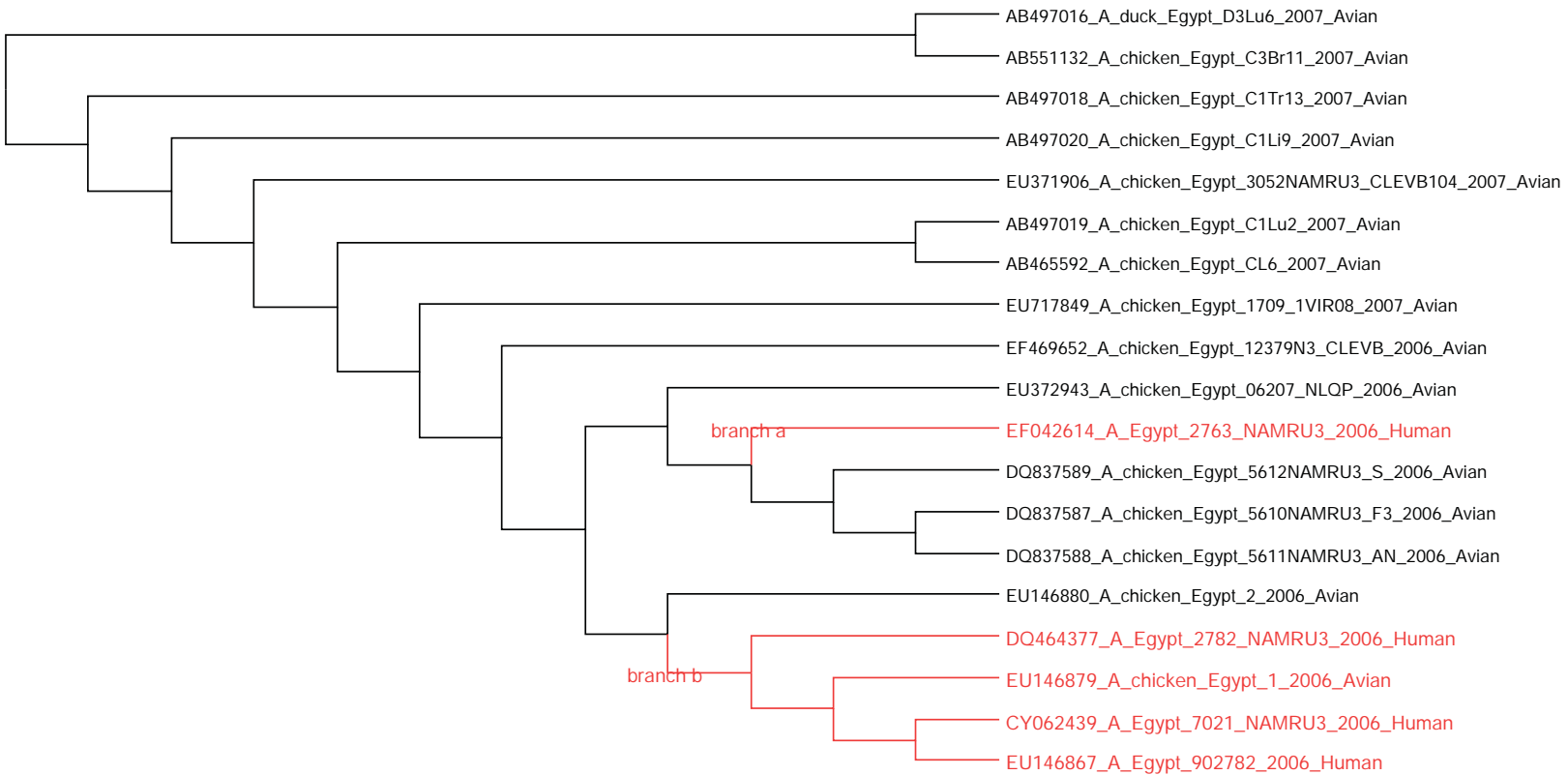
HA-Group22



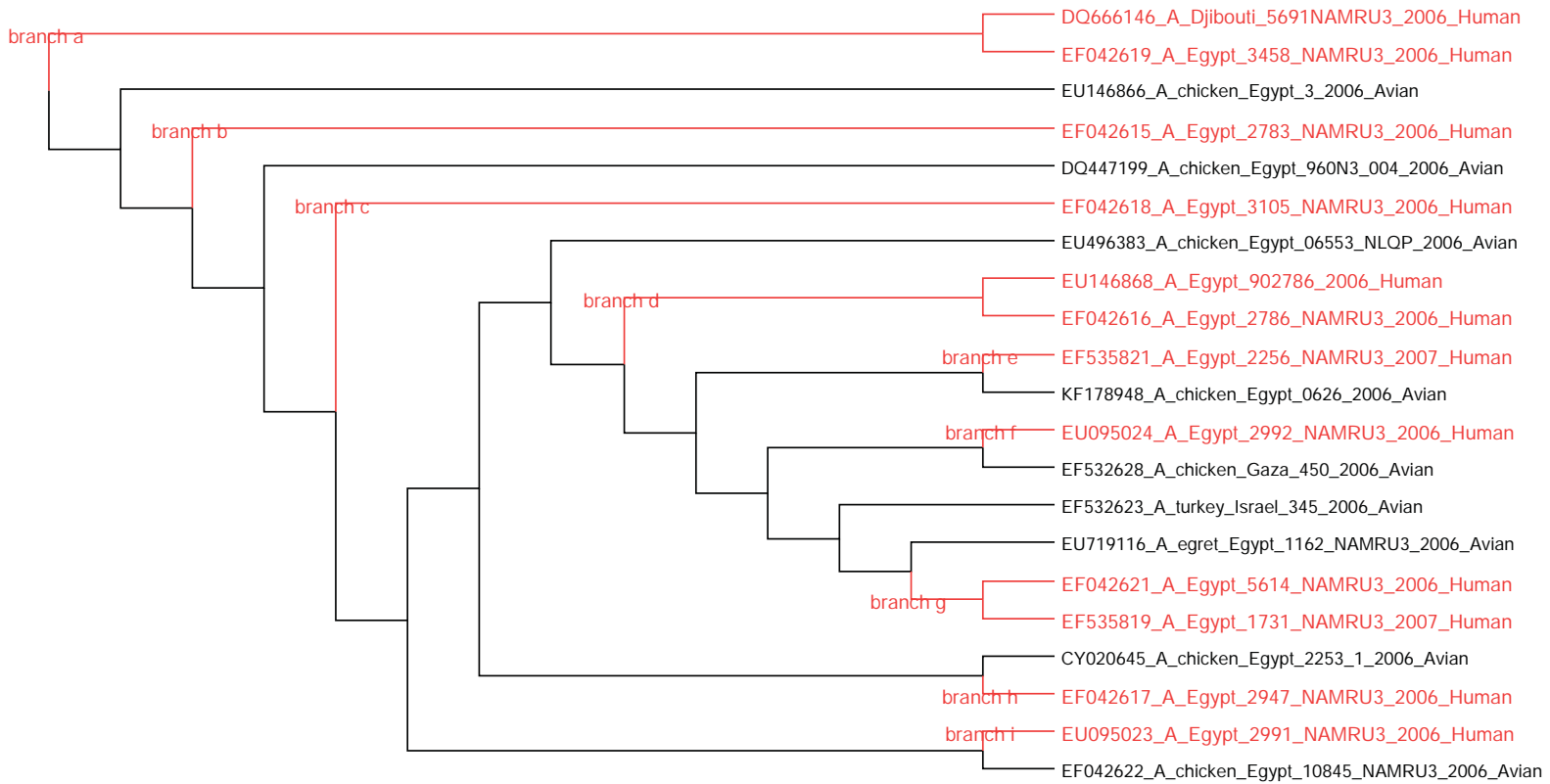
HA-Group23



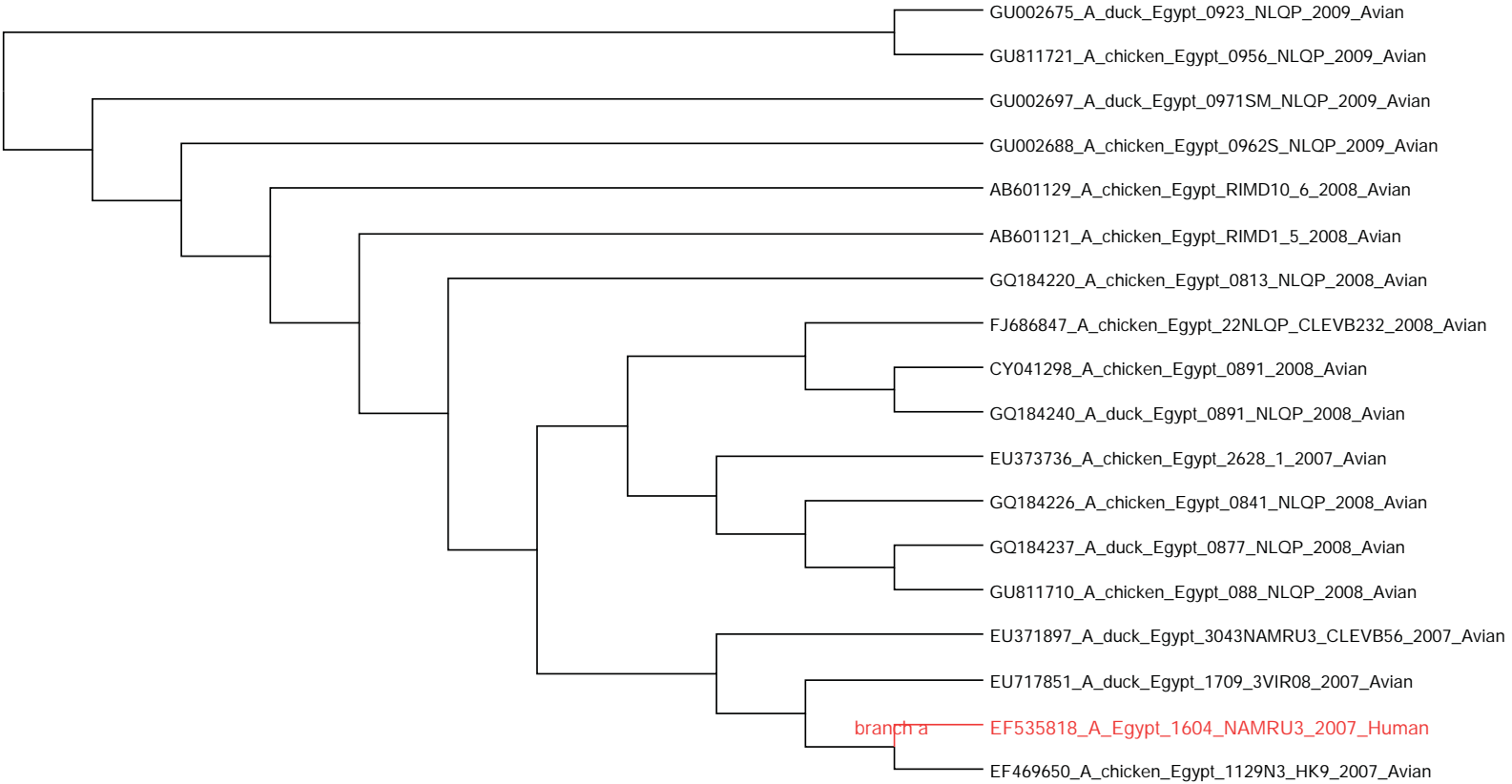
HA-Group24



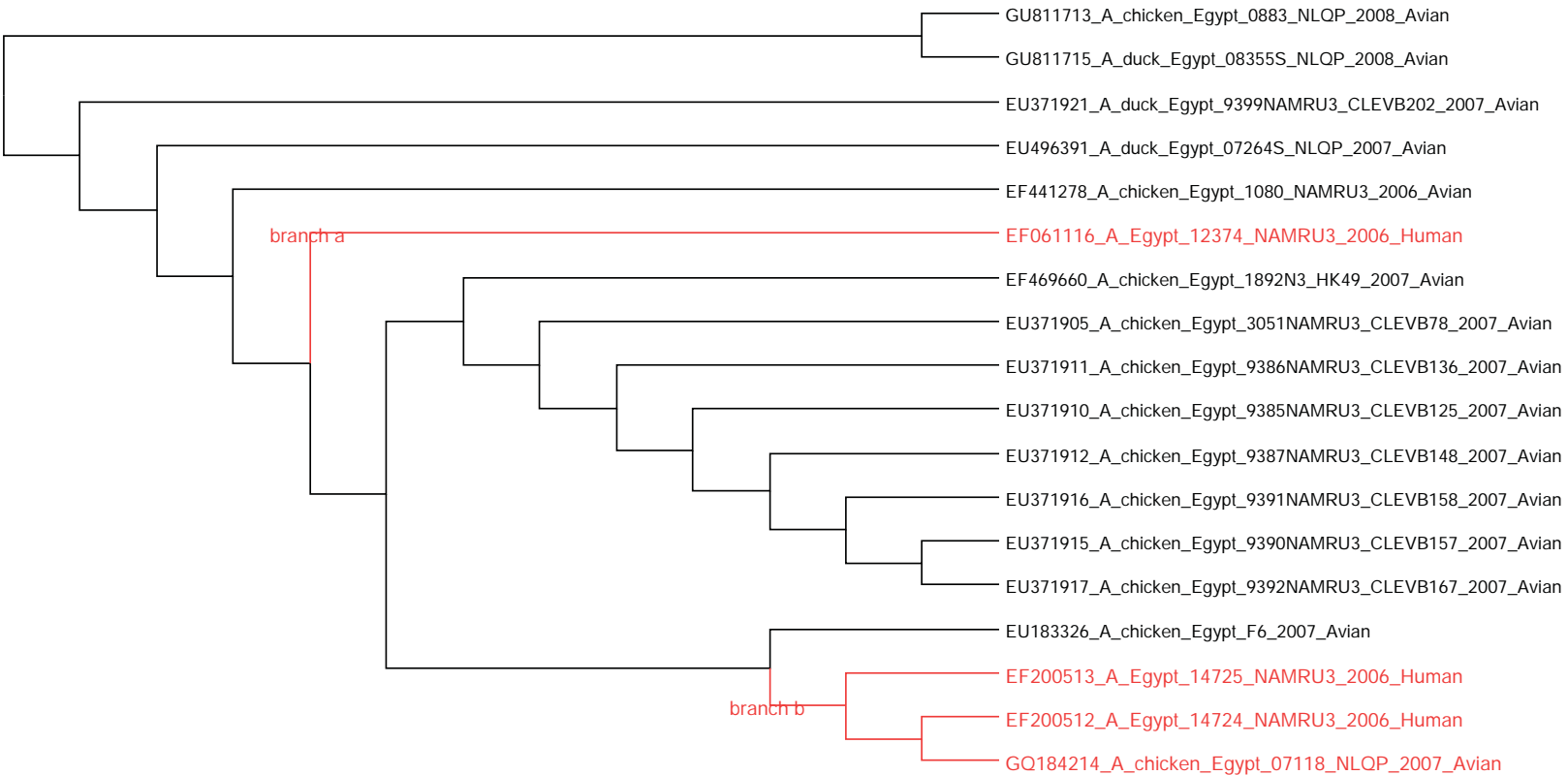
HA-Group25



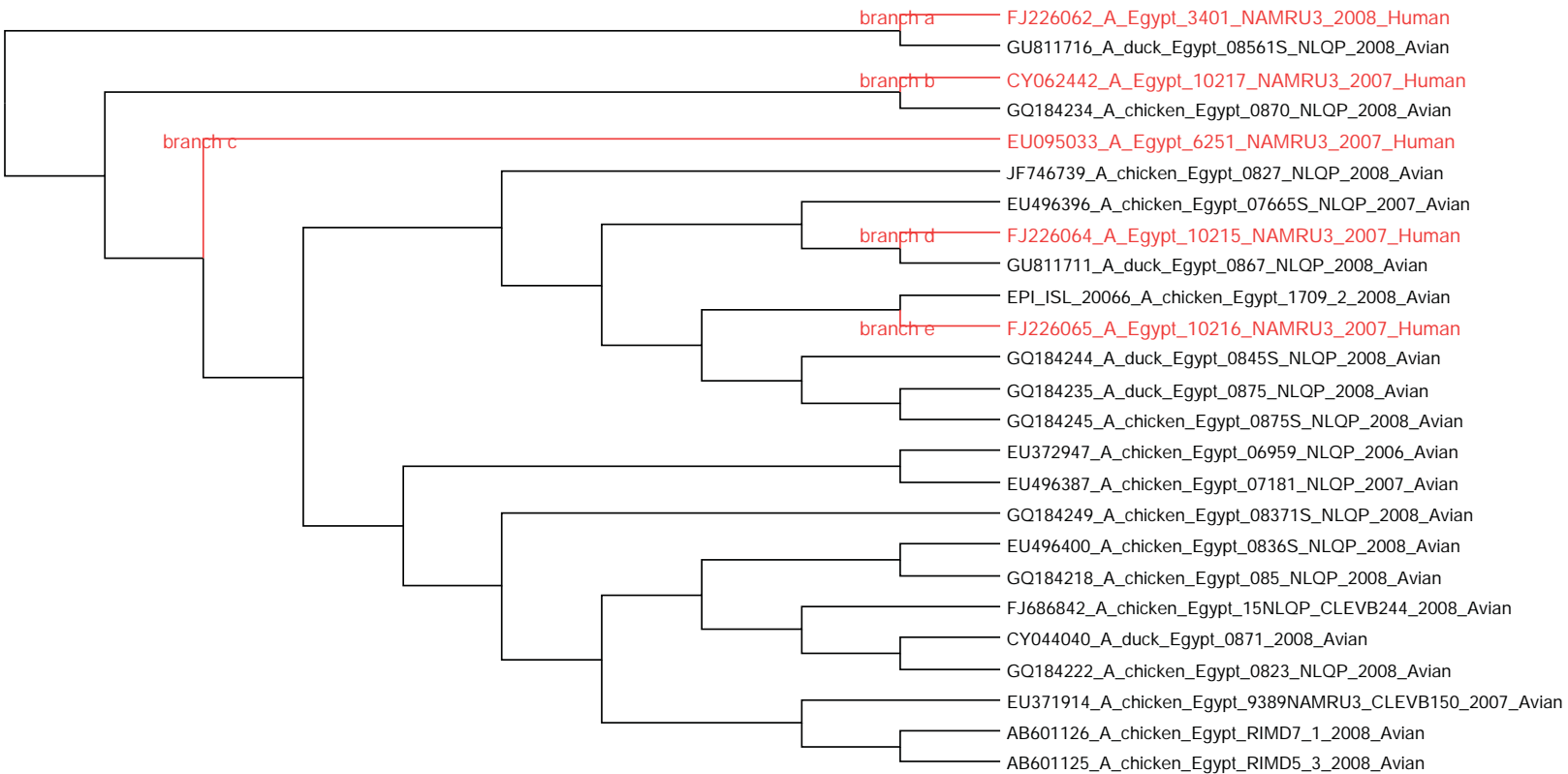
HA-Group26



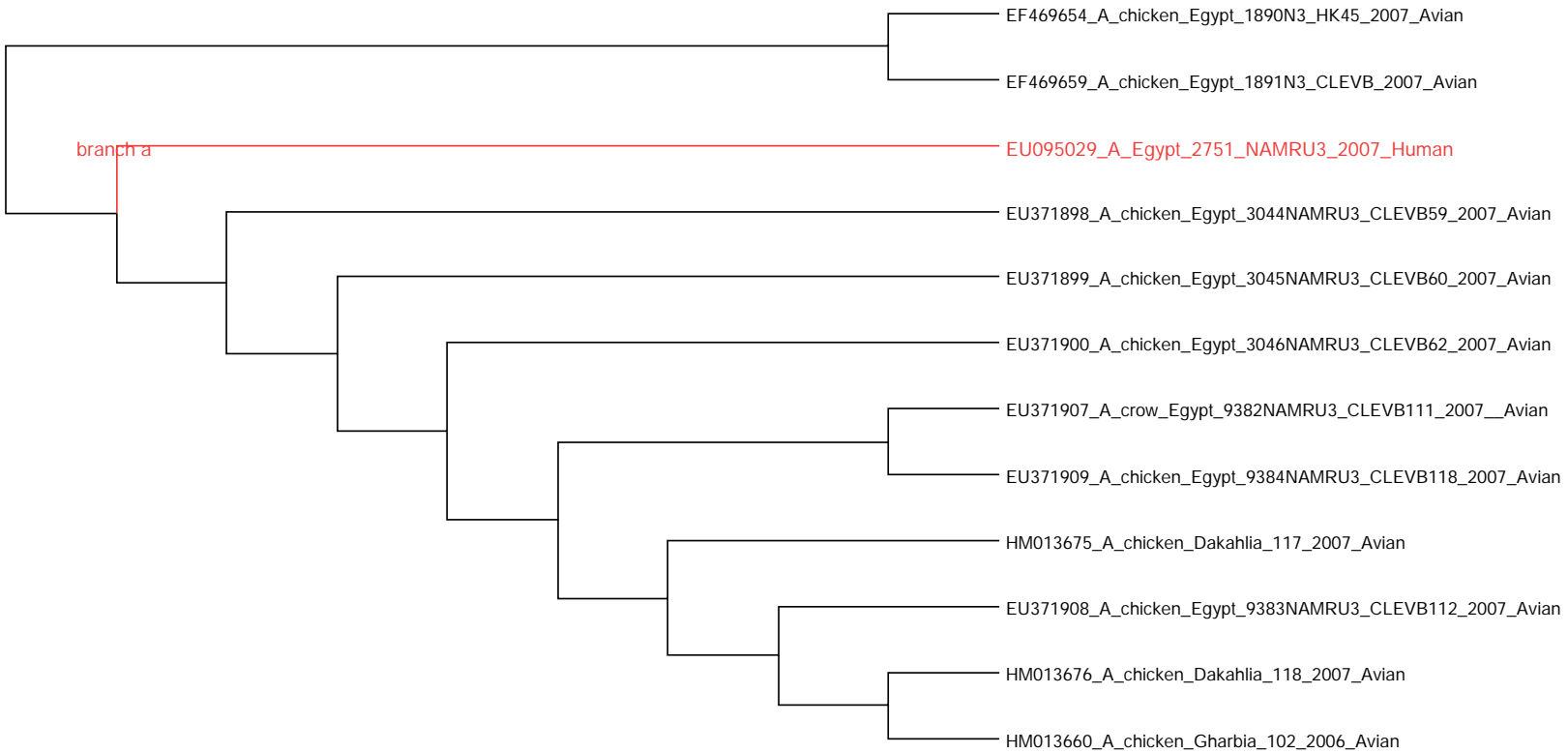
HA-Group27



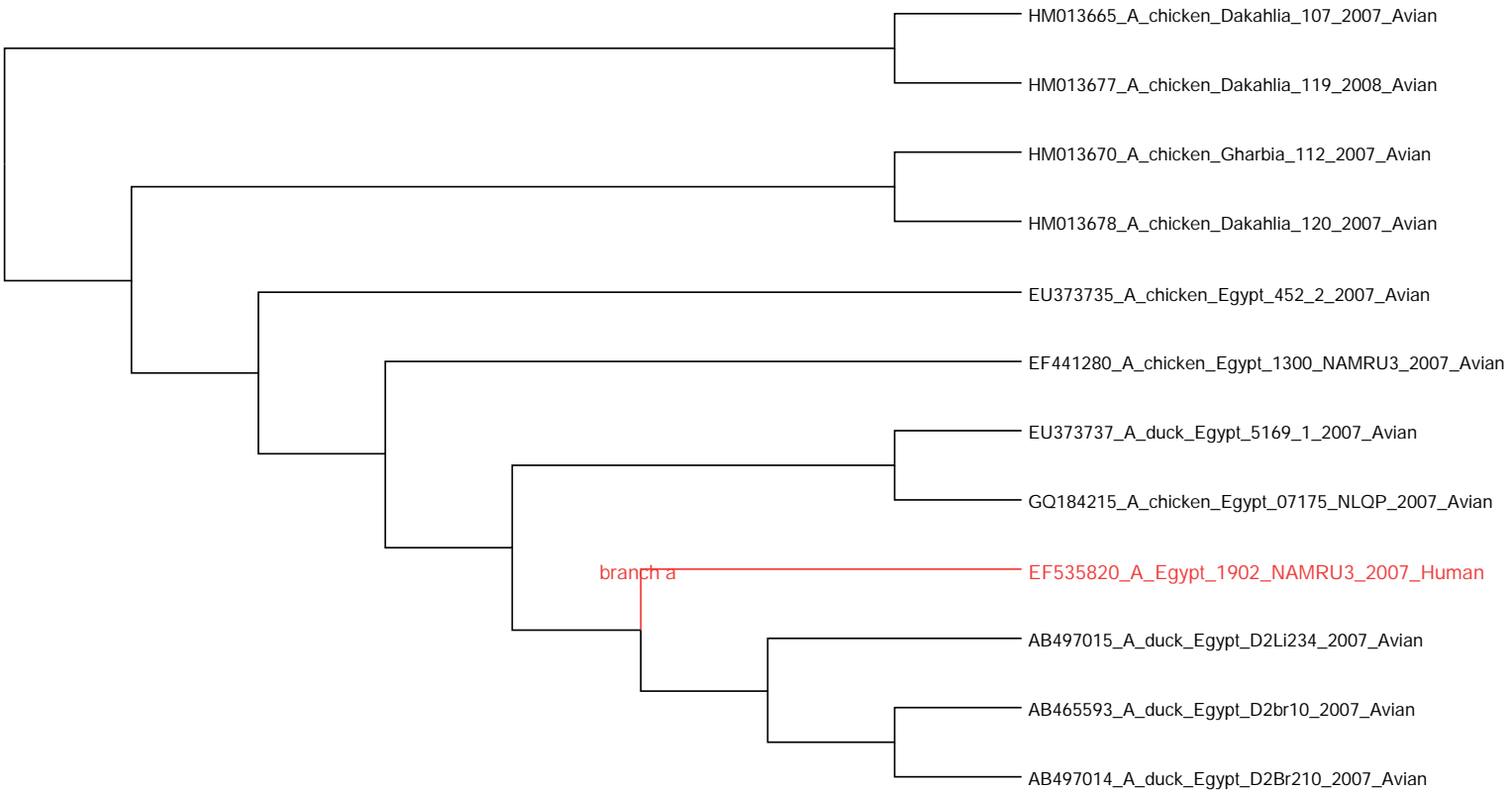
HA-Group28



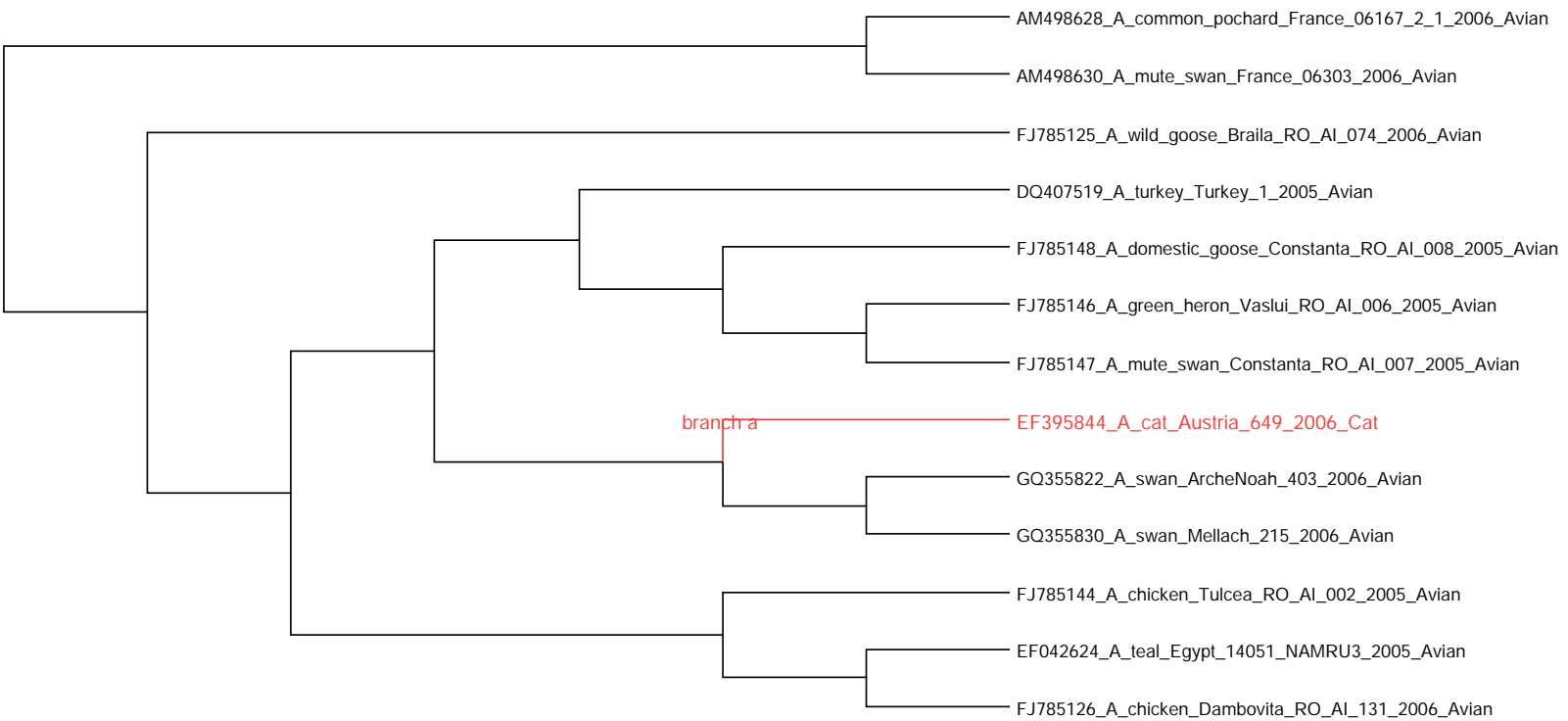
HA-Group29



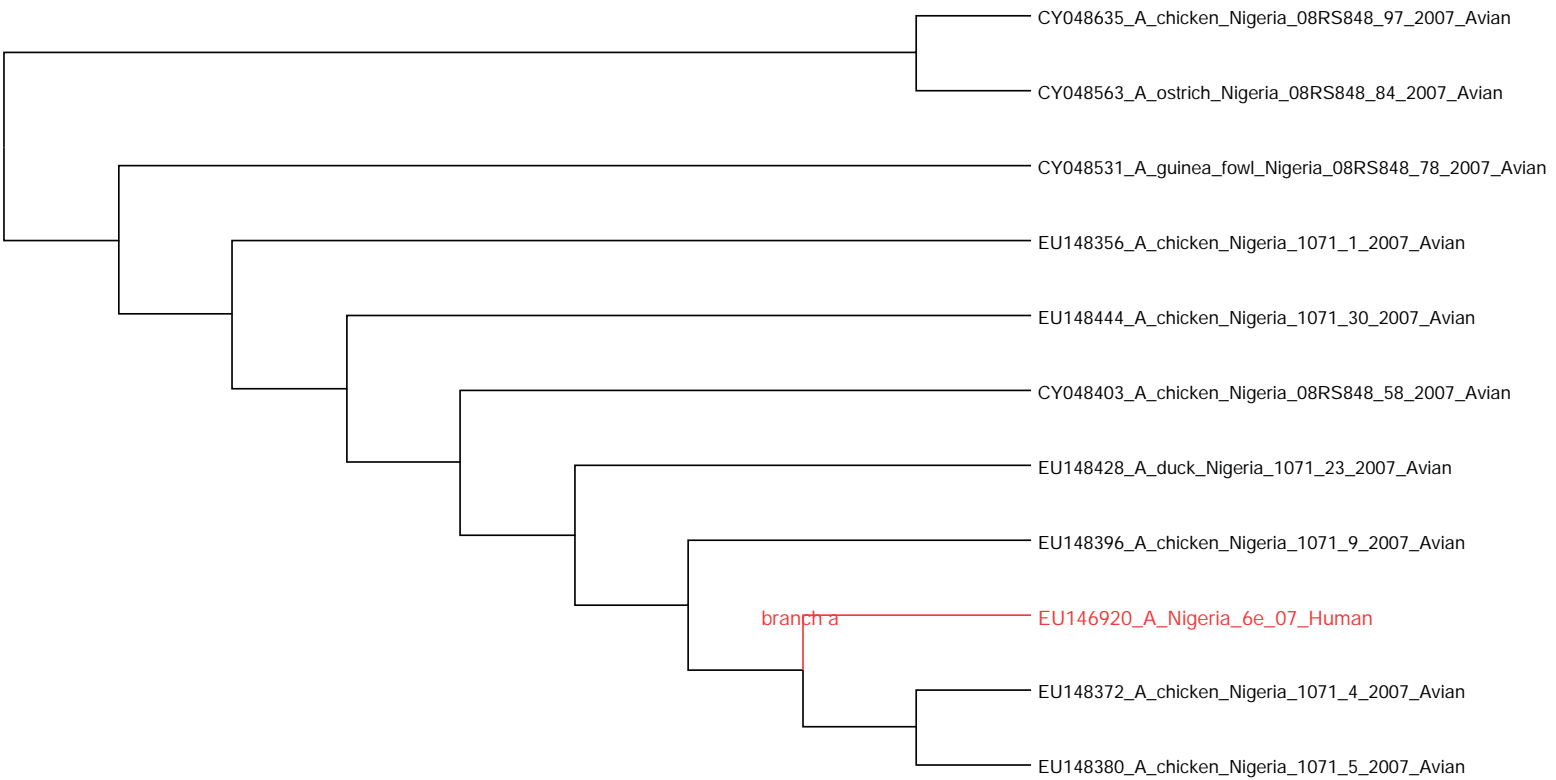
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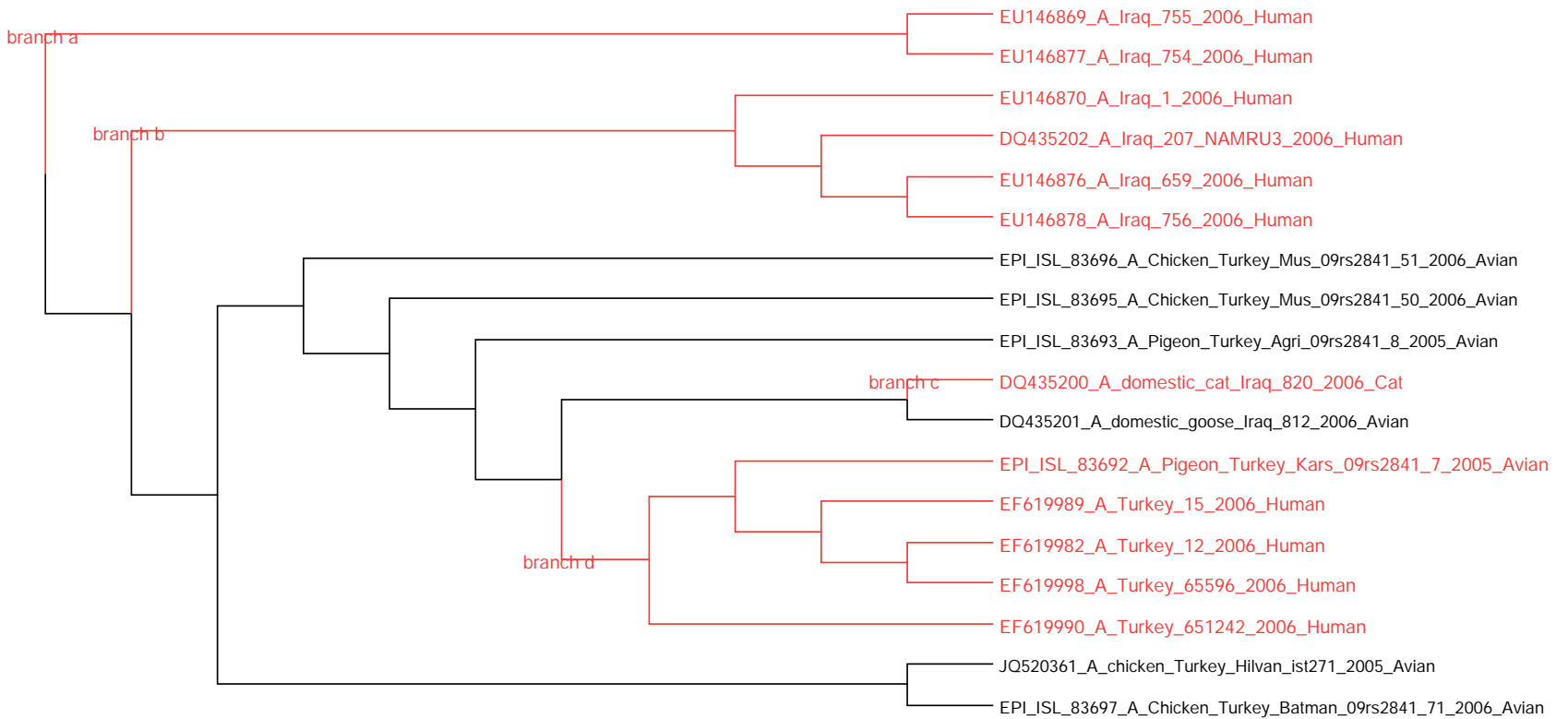
HA-Group31



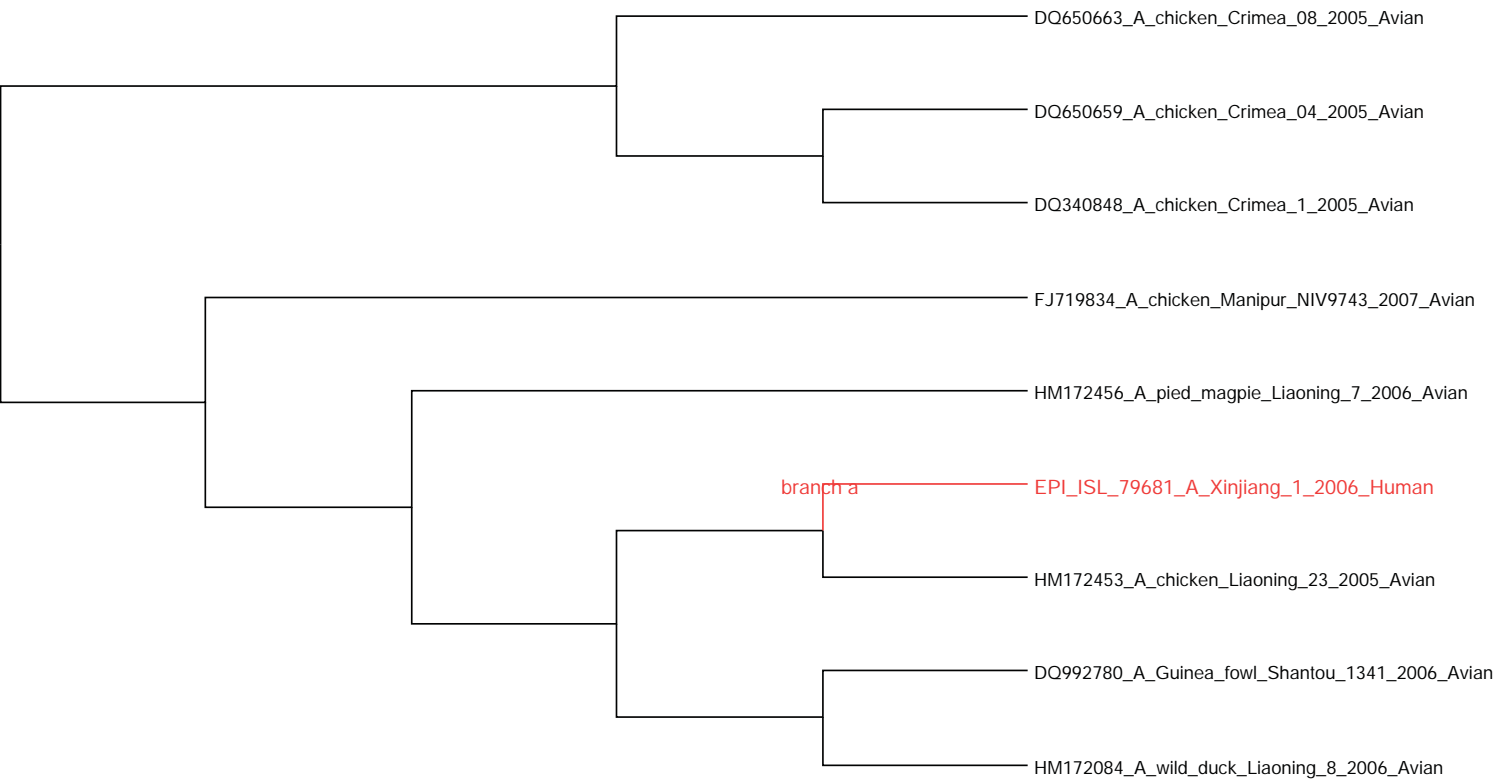
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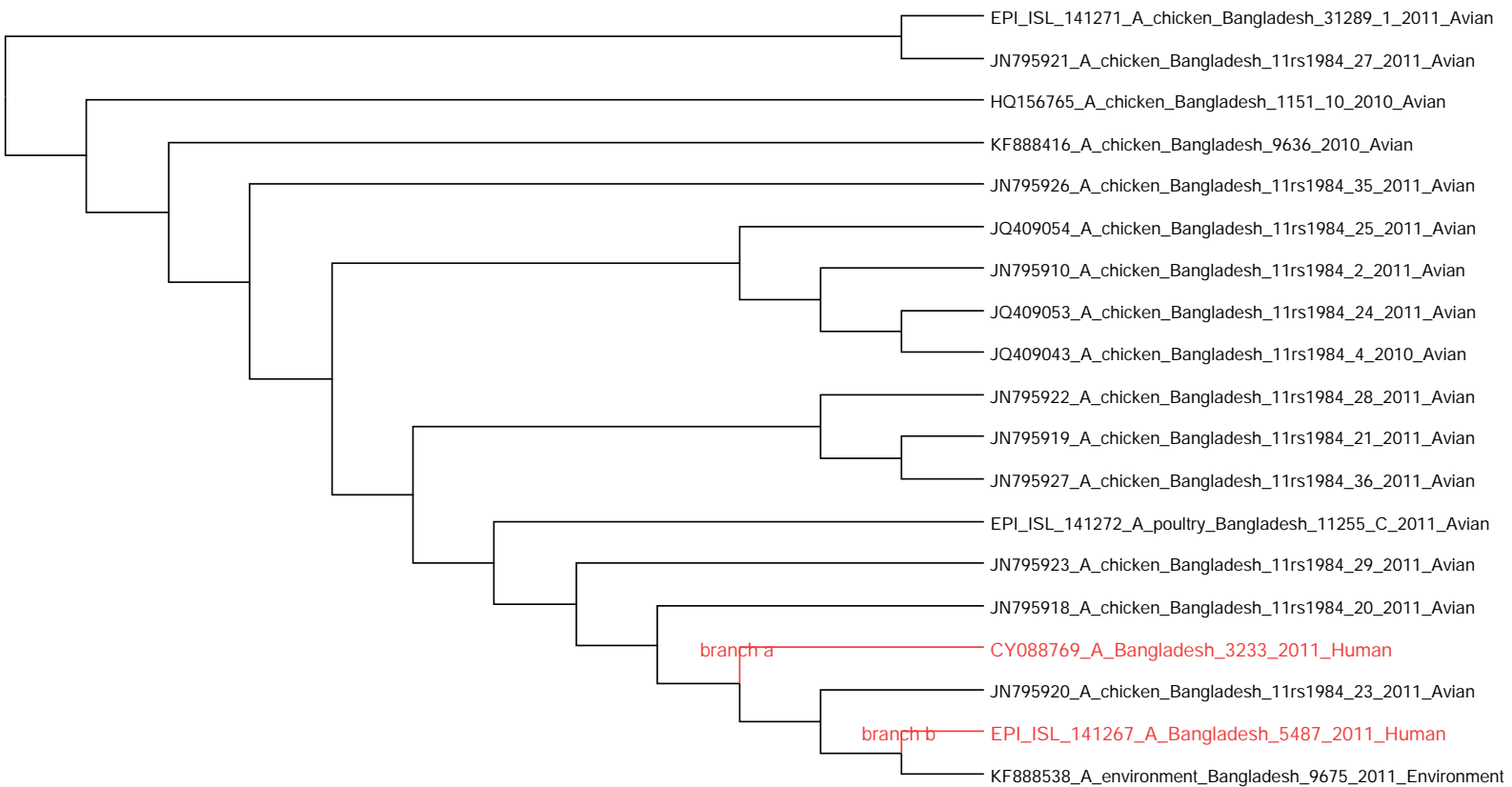
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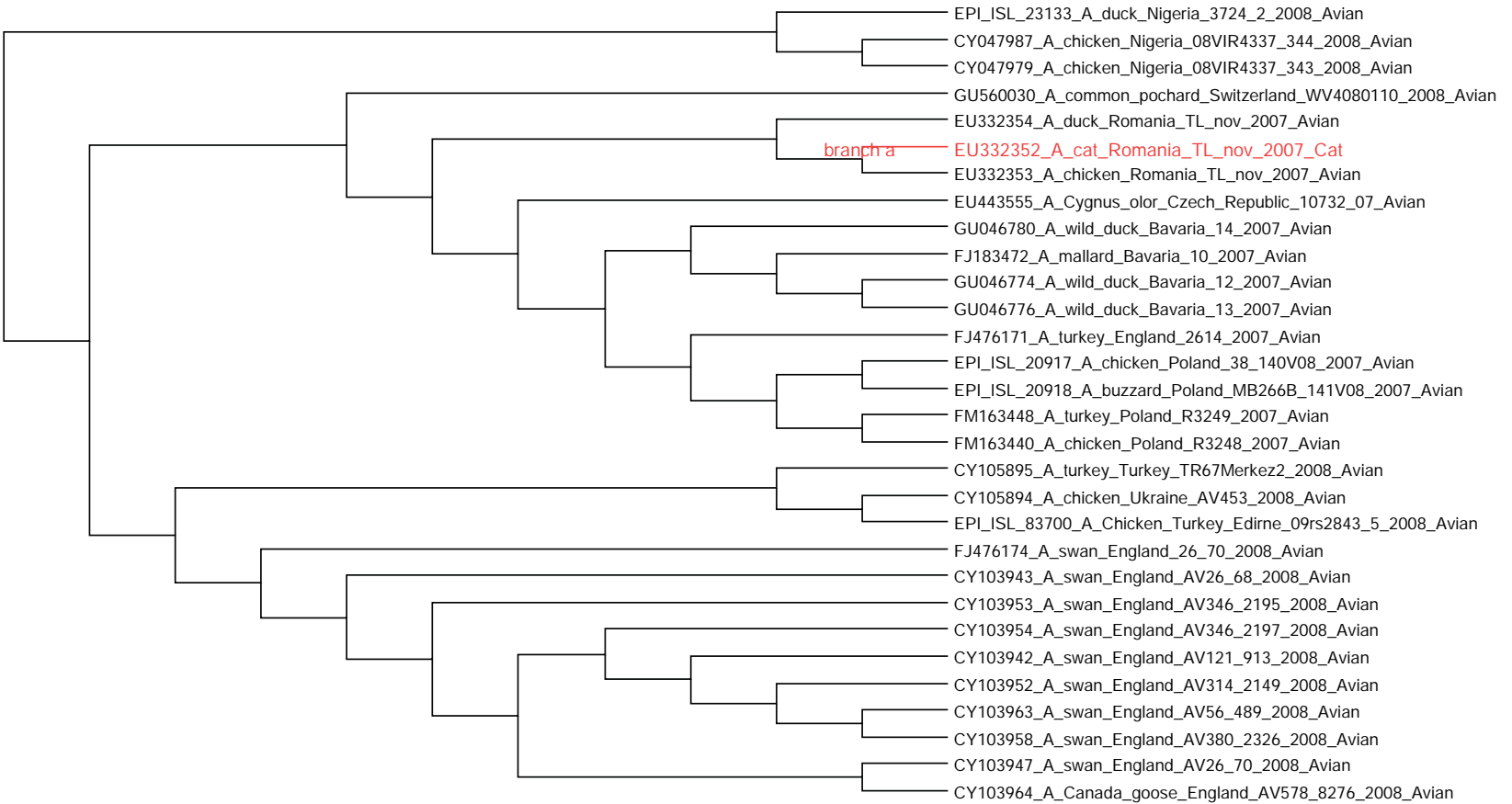
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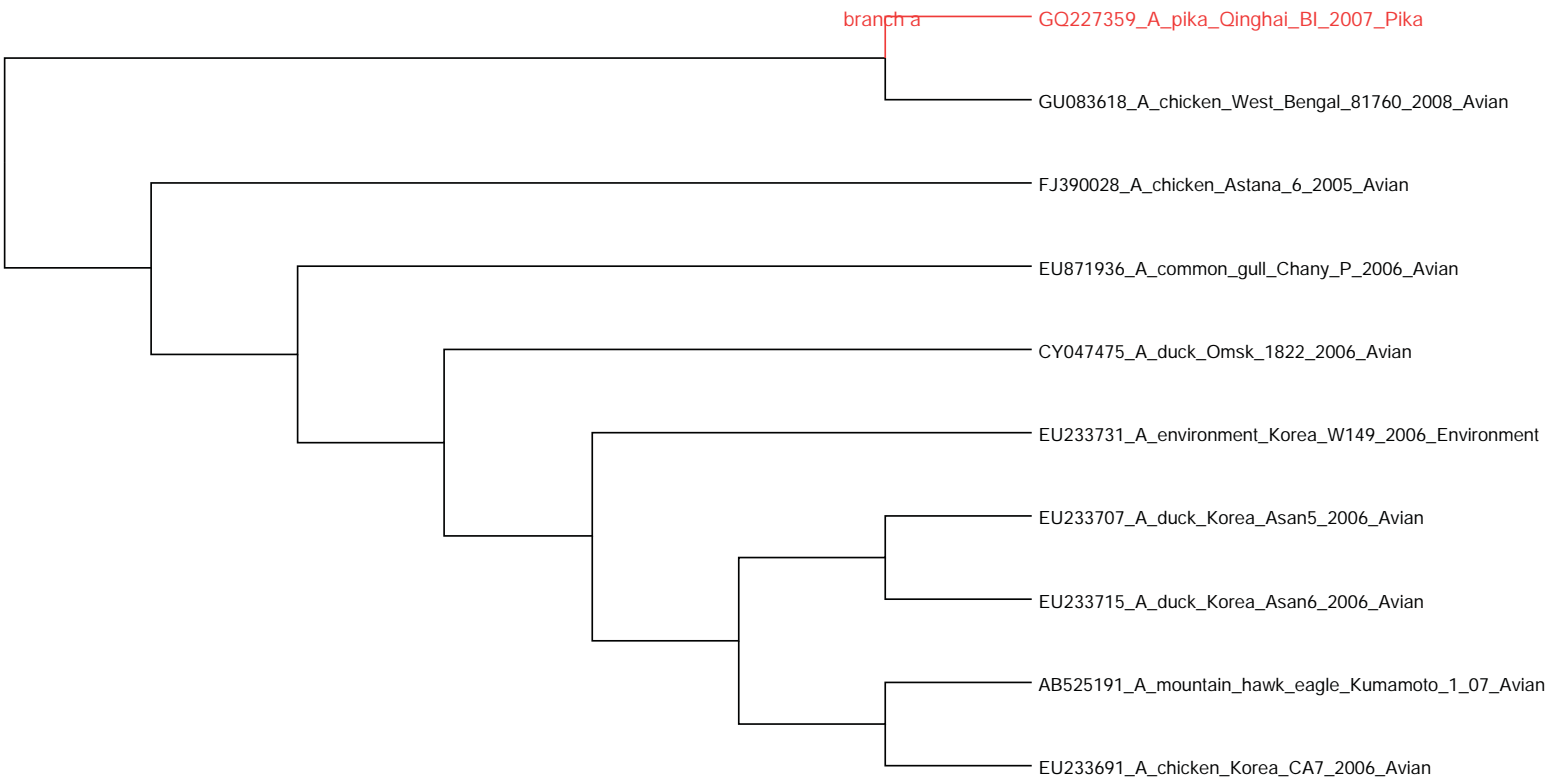
HA-Group35



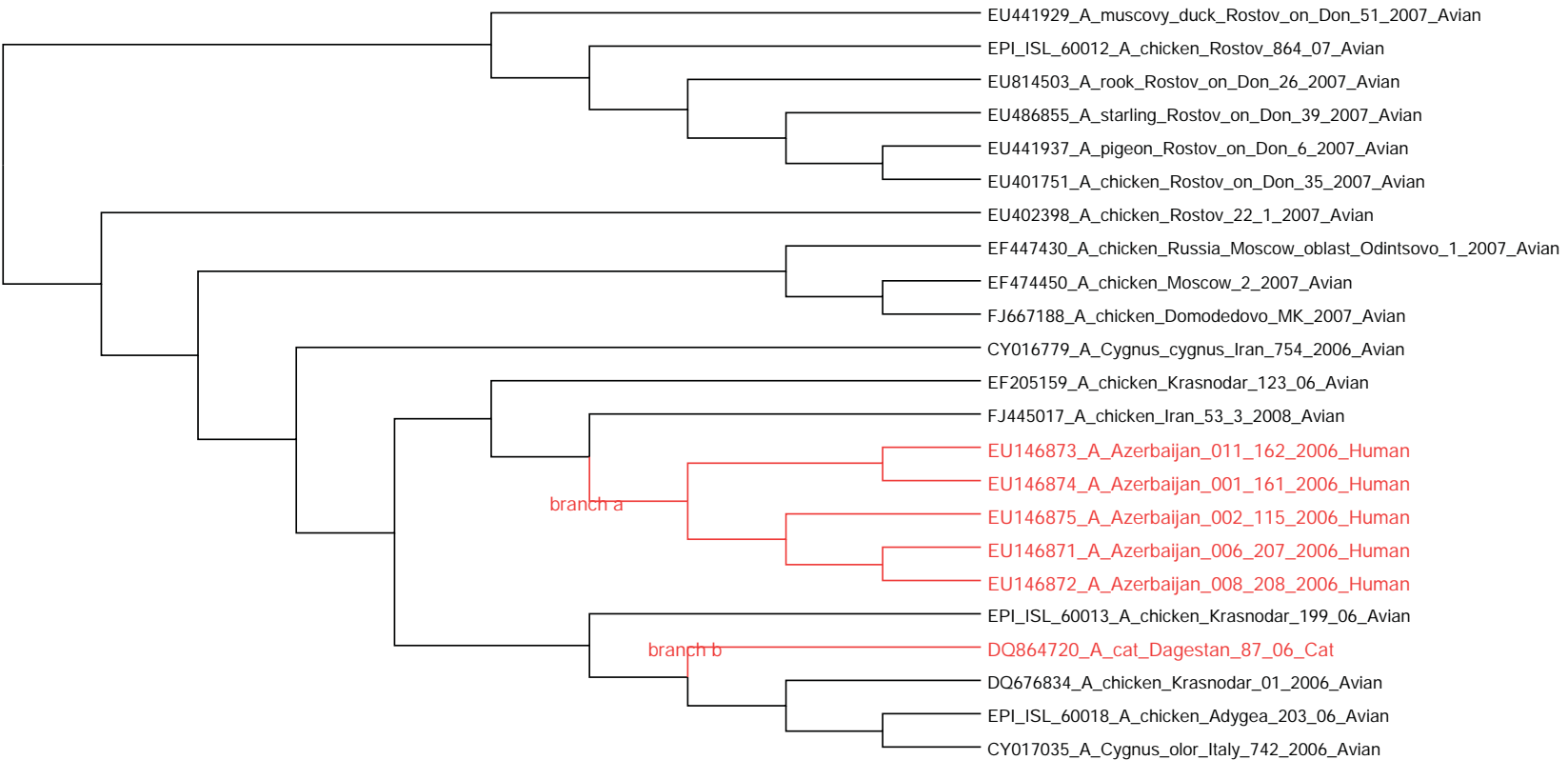
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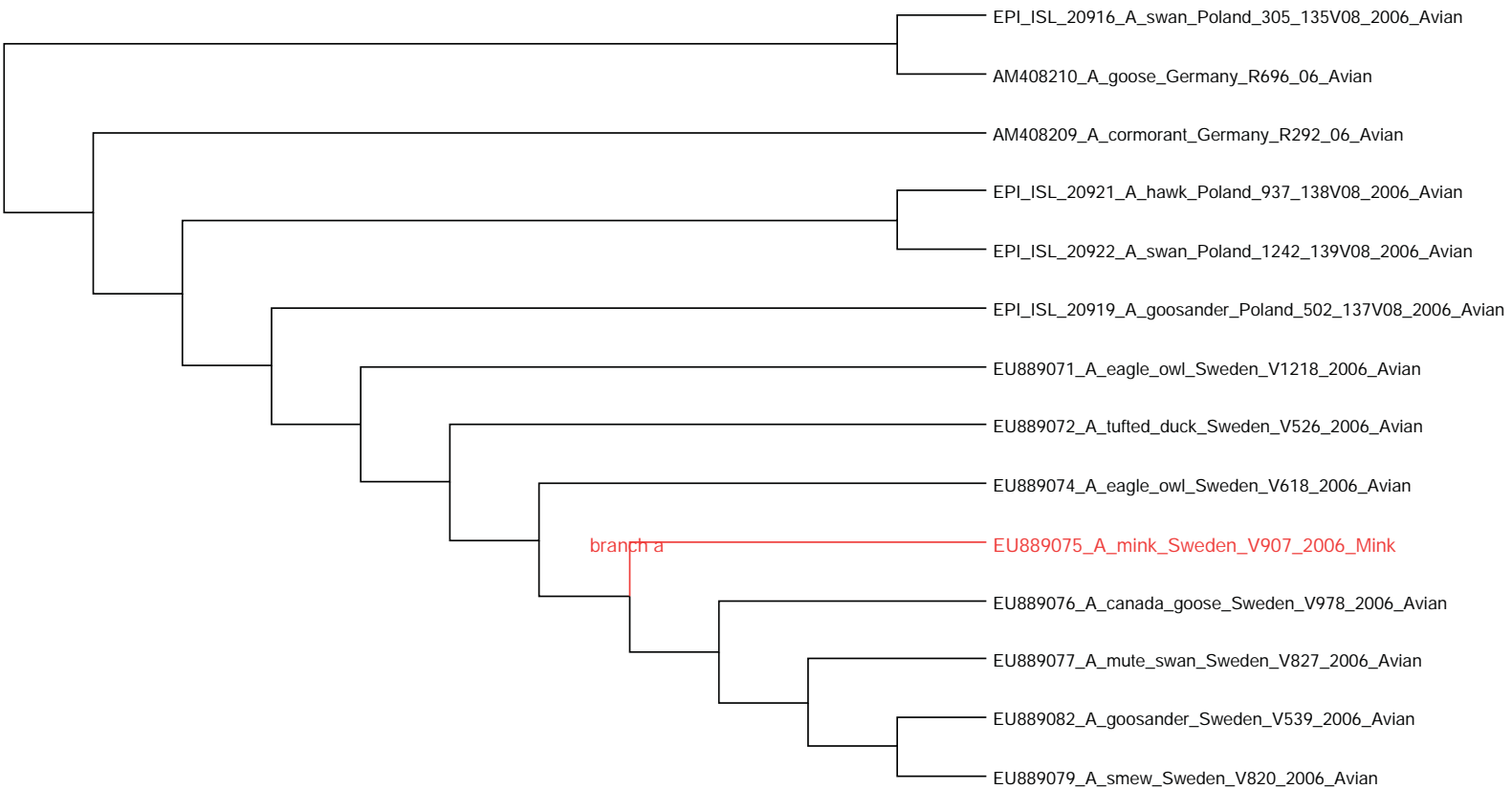
HA-Group37



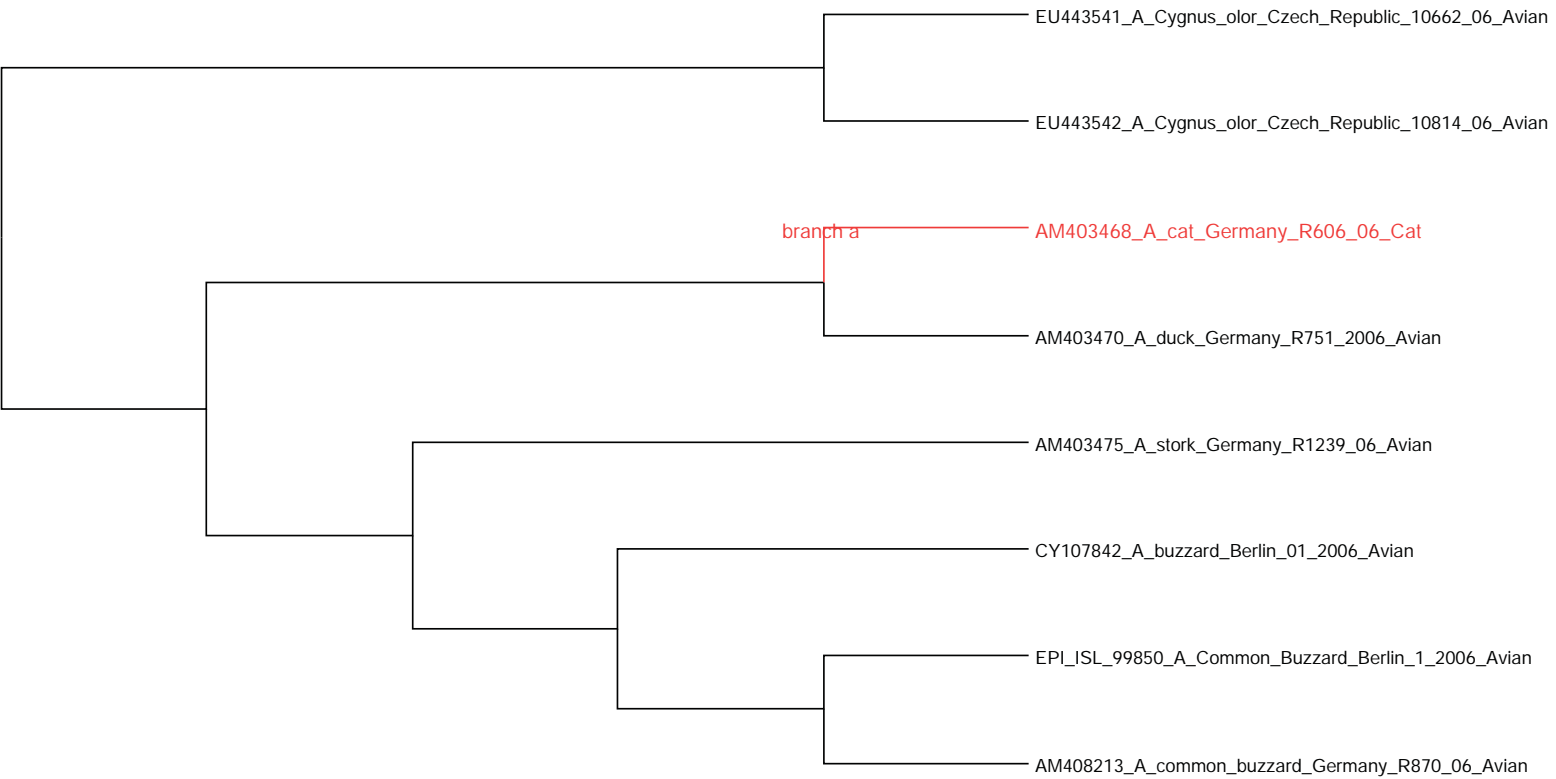
HA-Group38



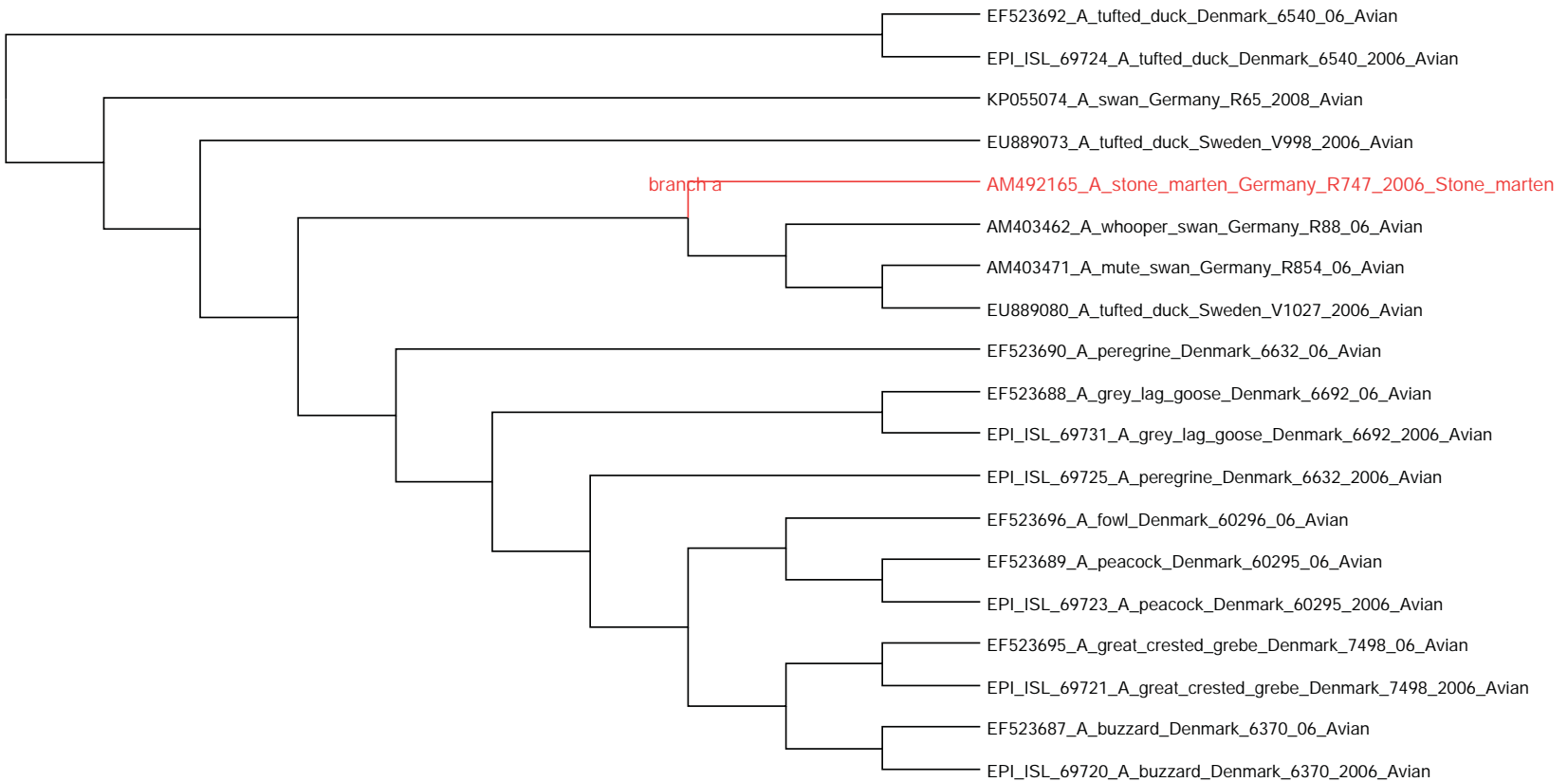
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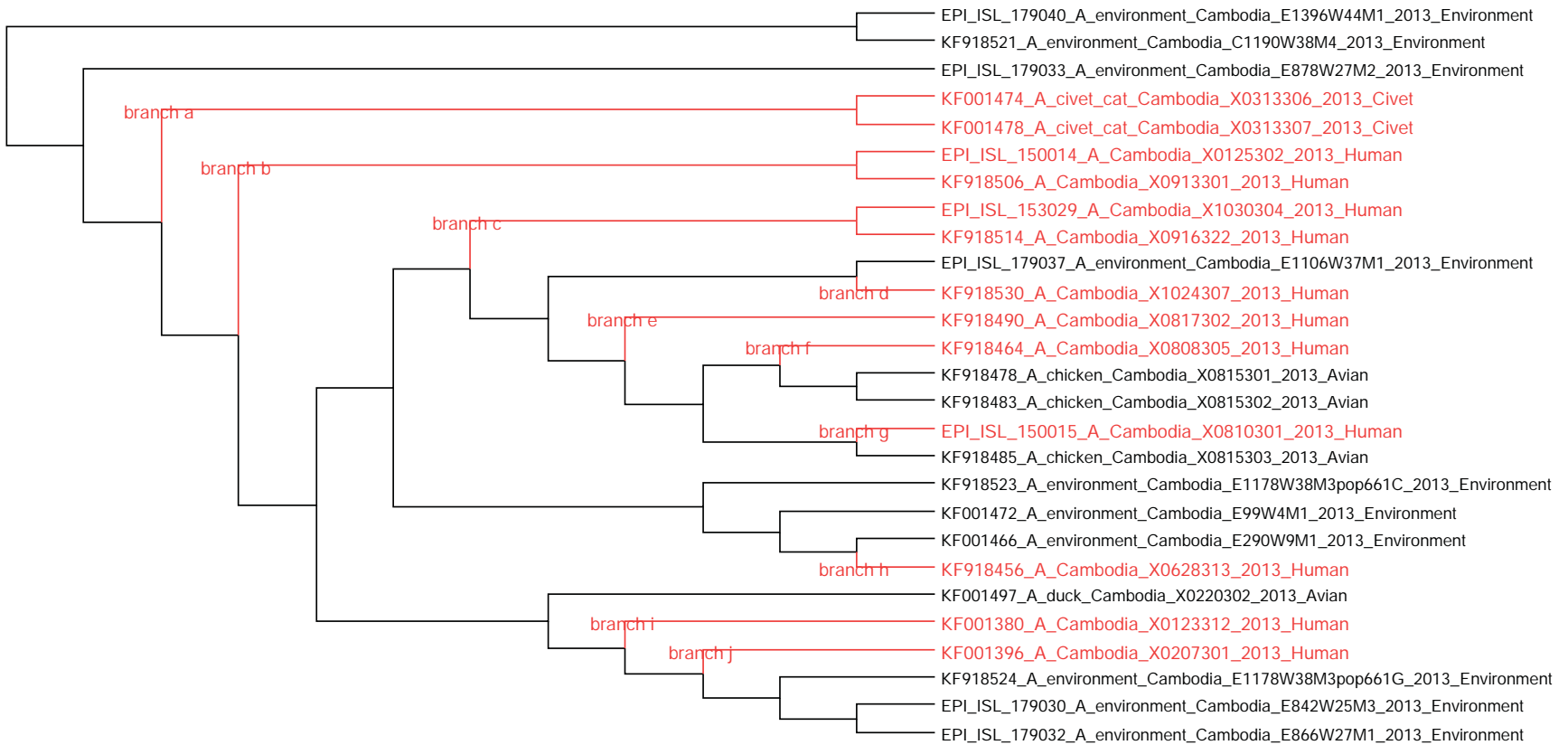
HA-Group40



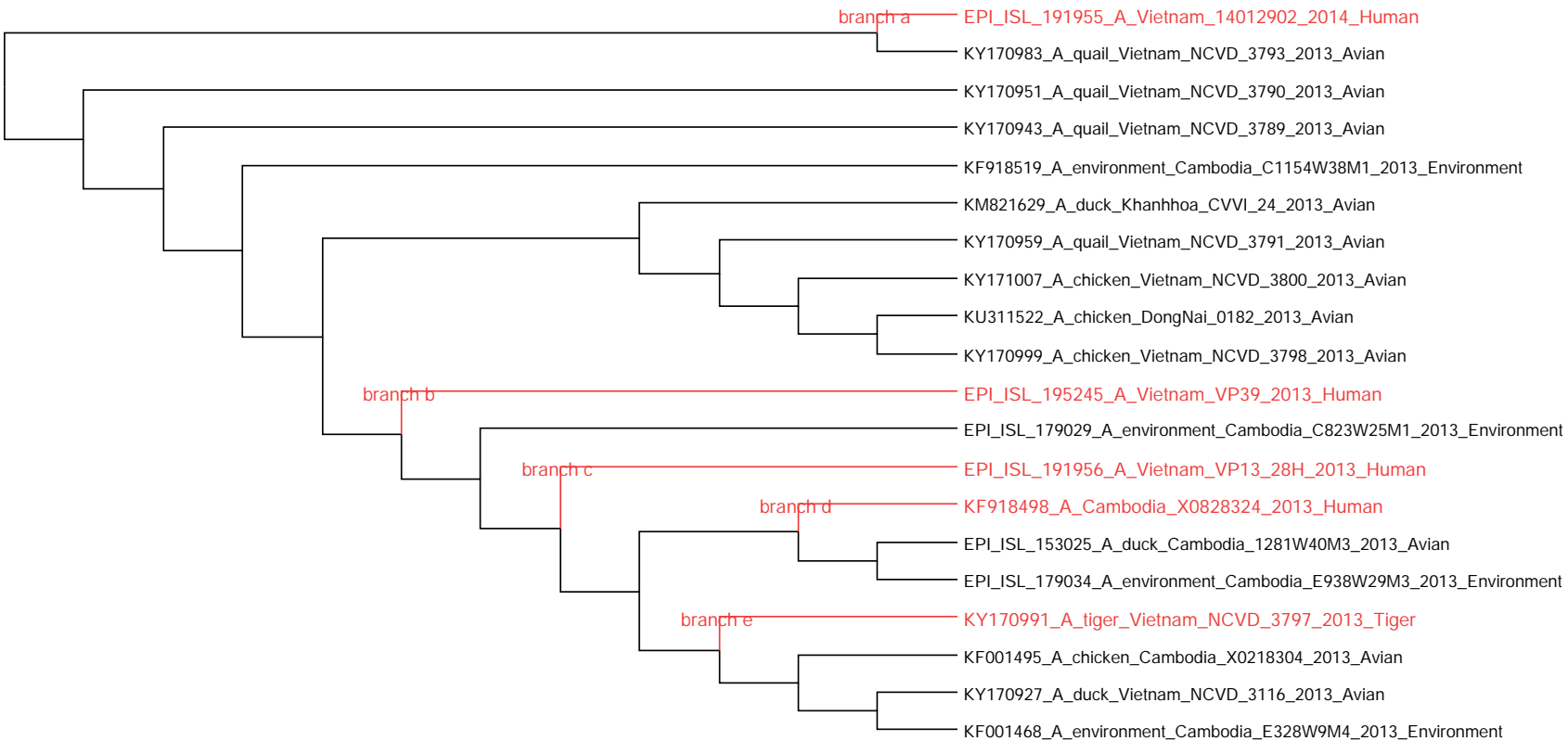
HA-Group41



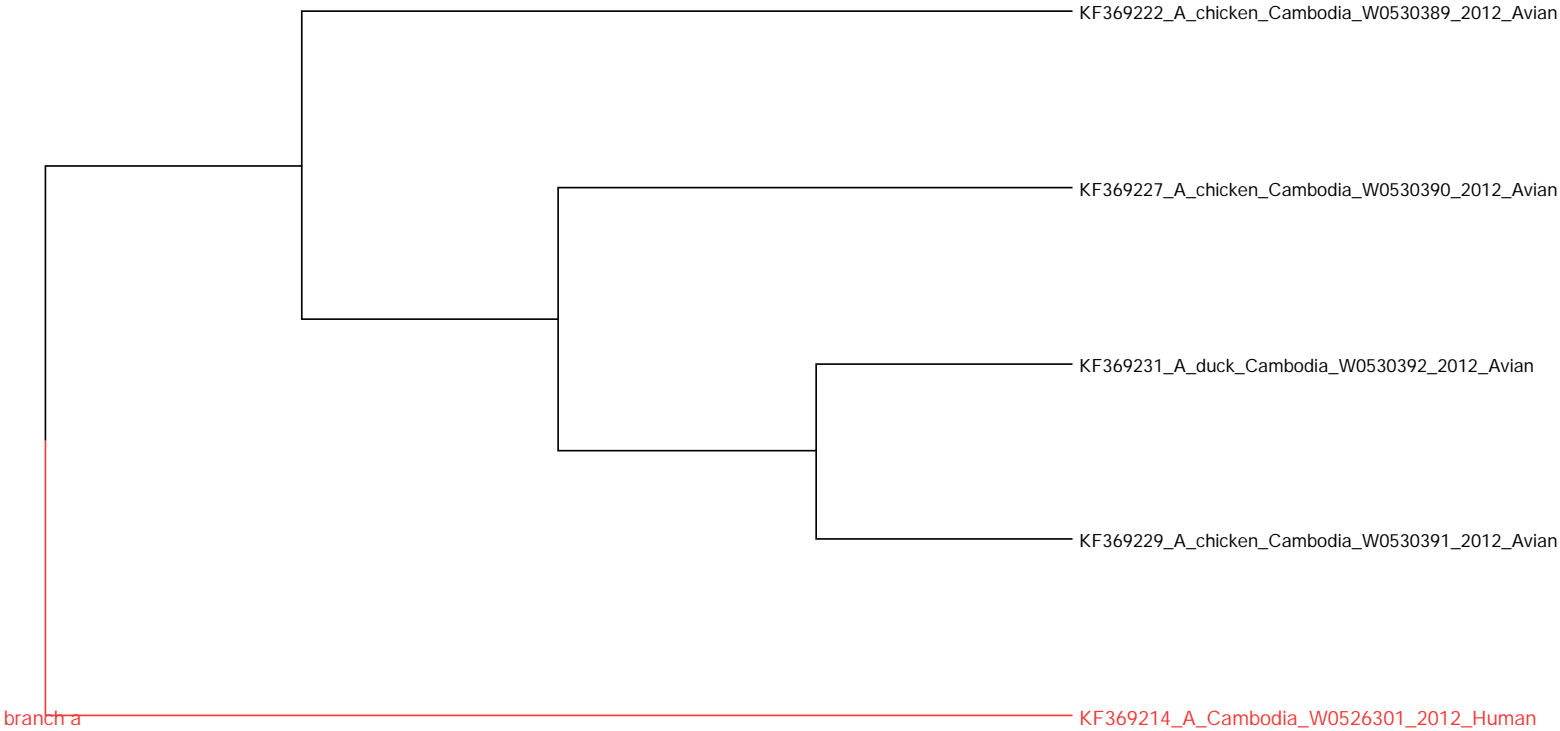
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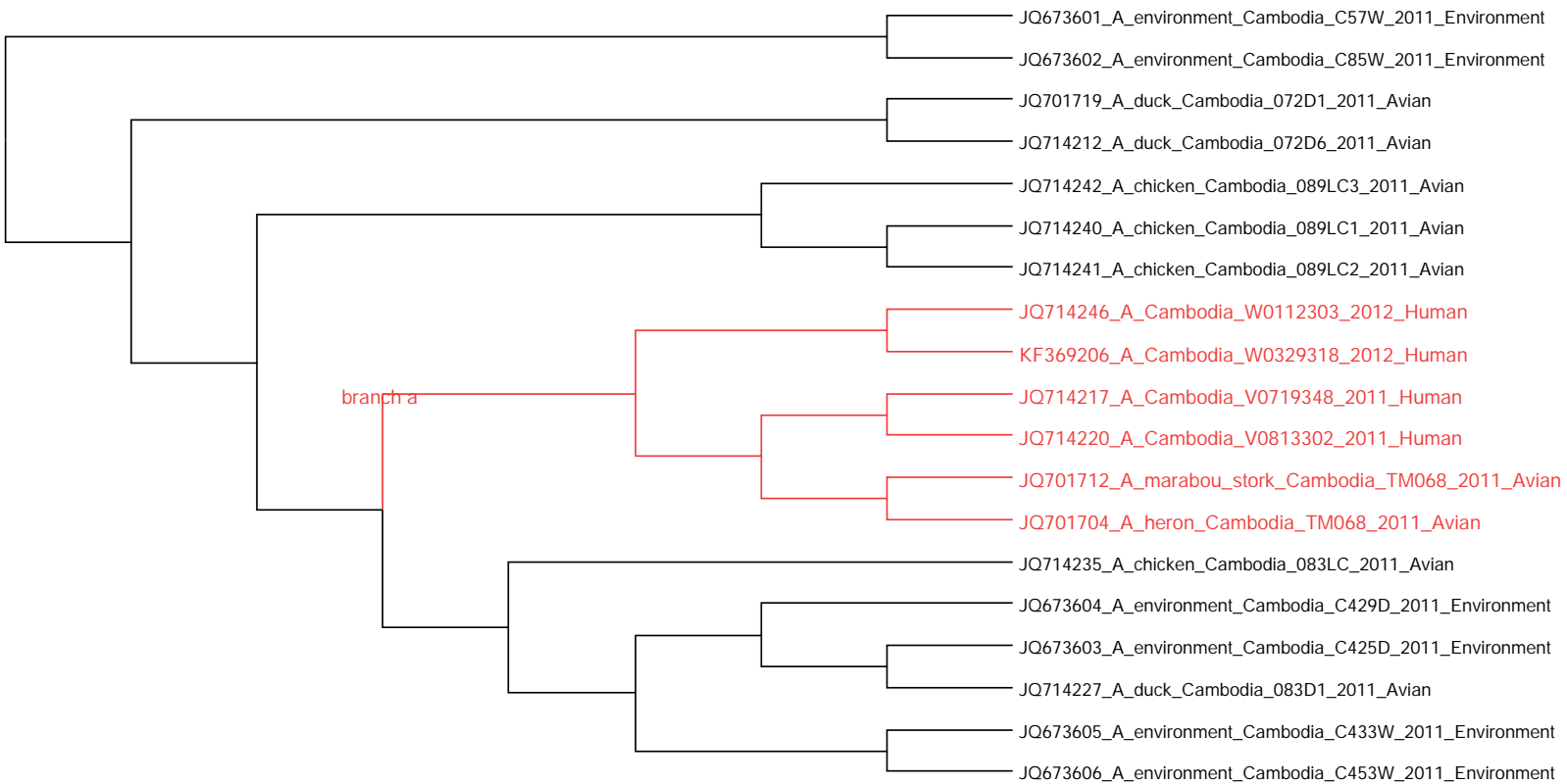
HA-Group43



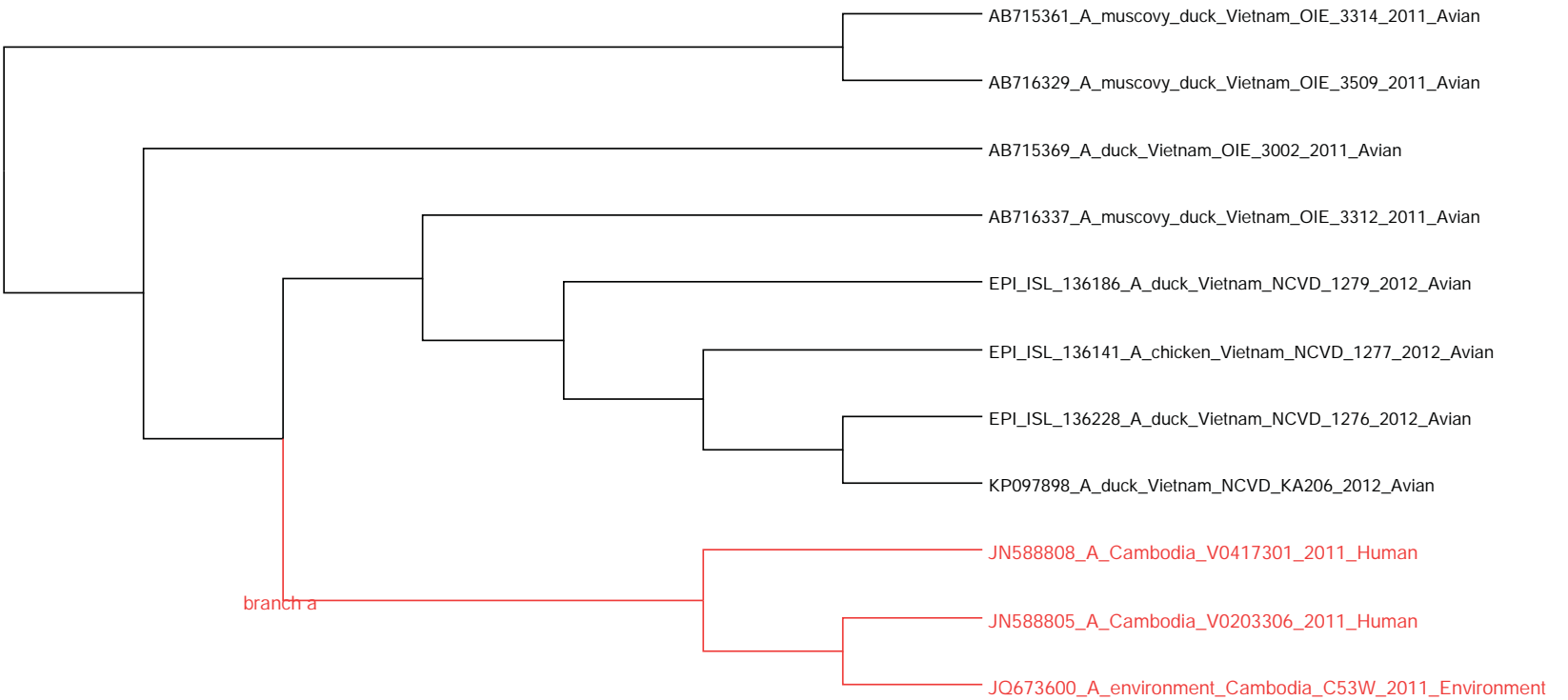
HA-Group44



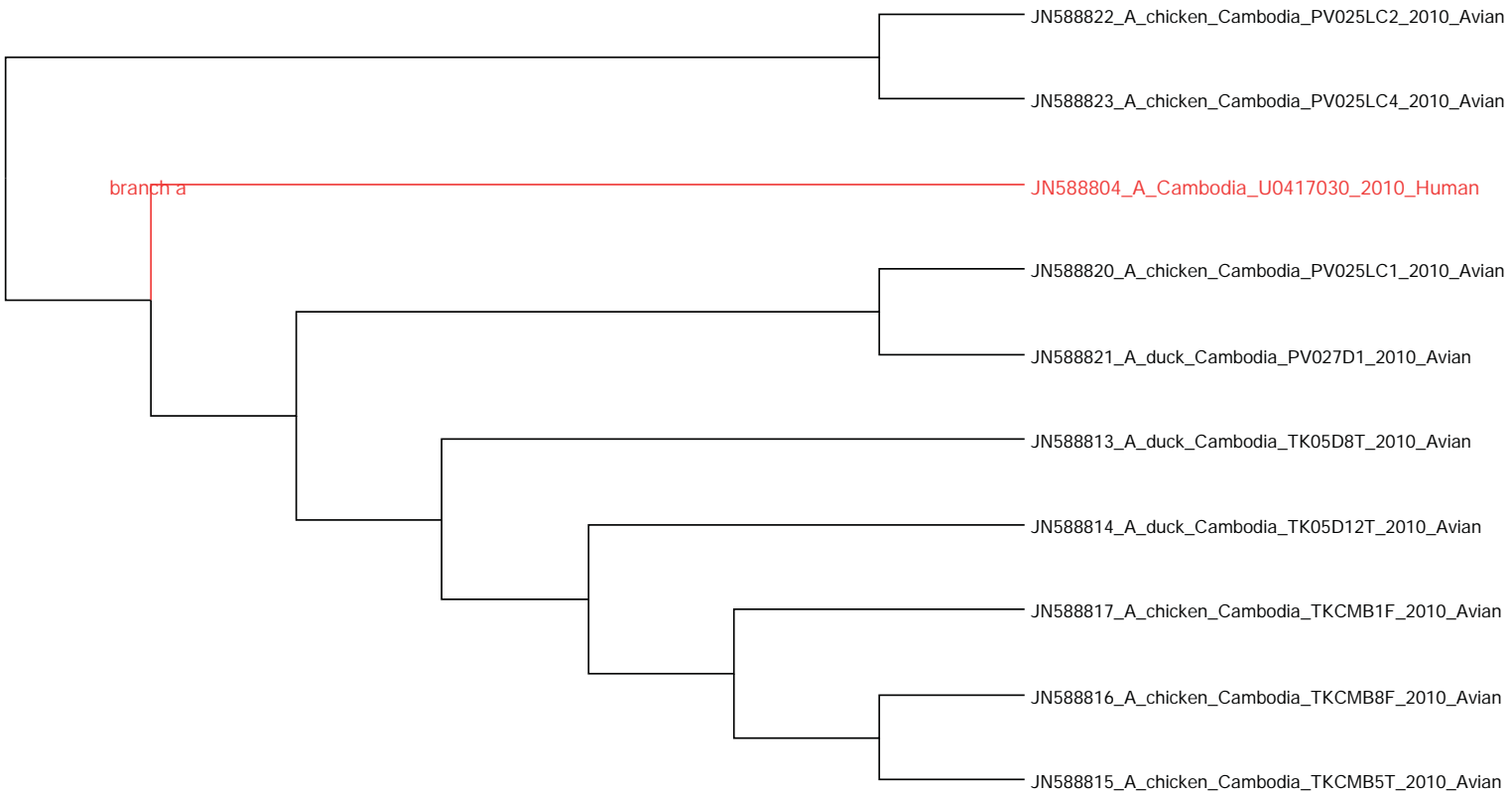
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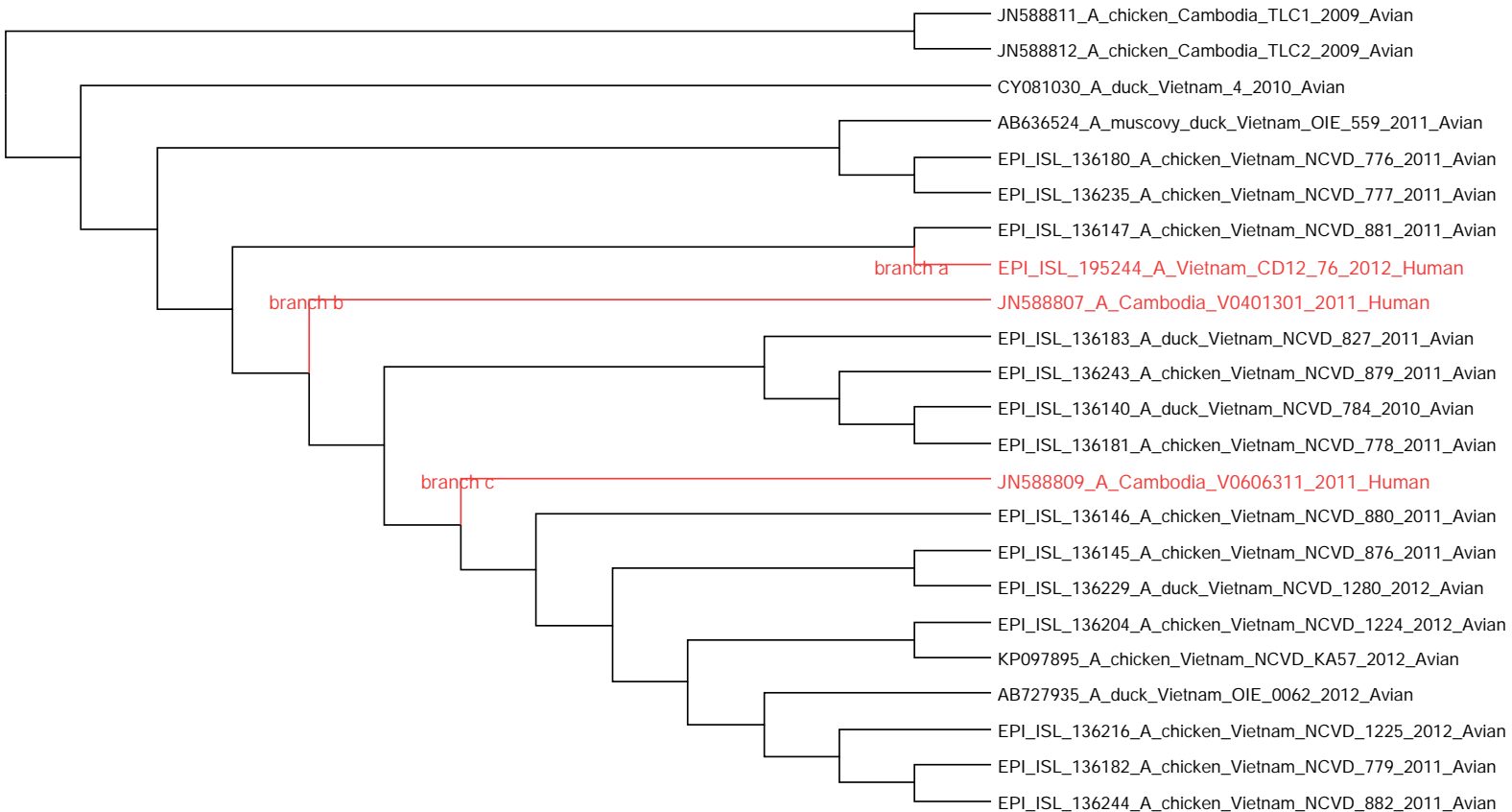
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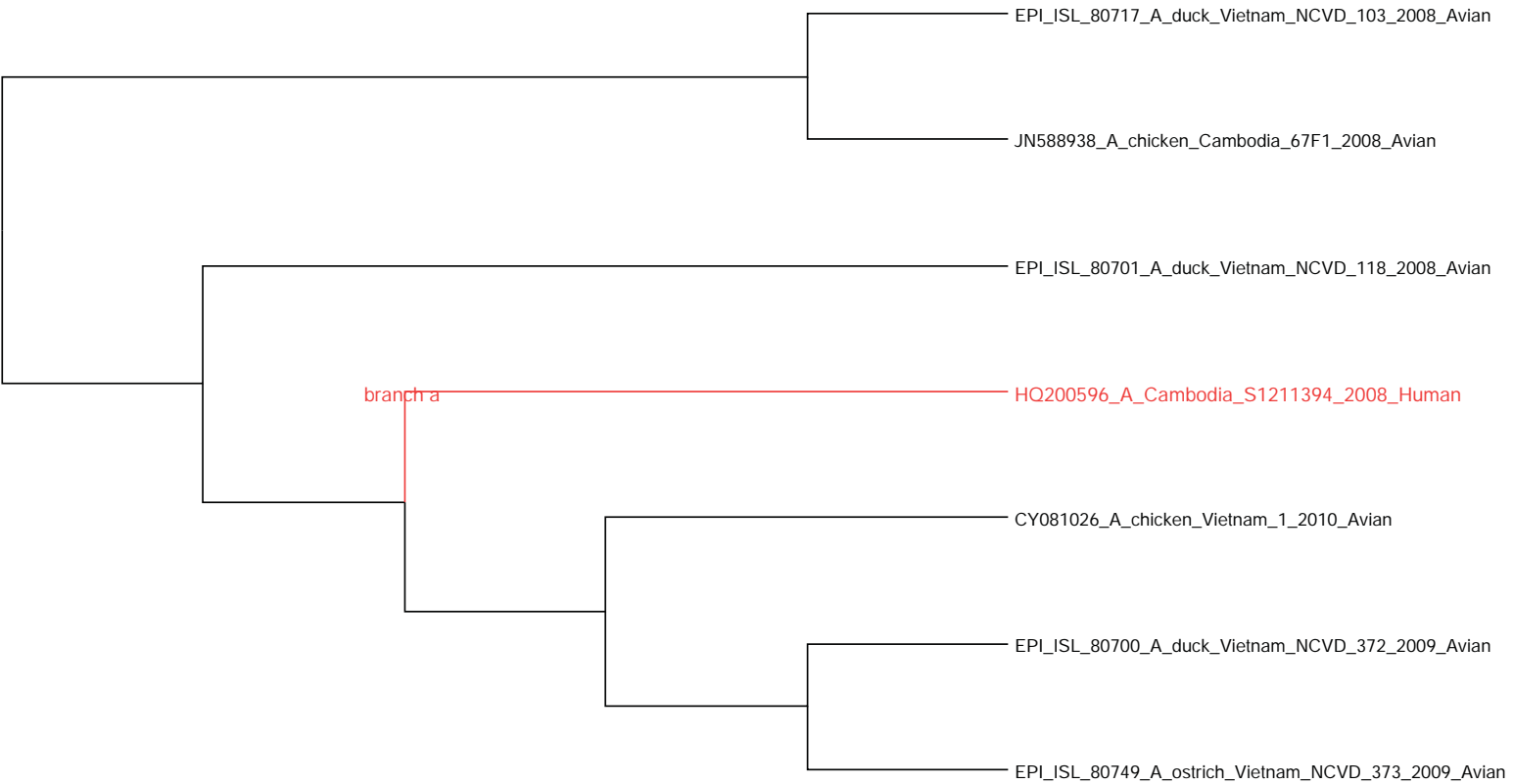
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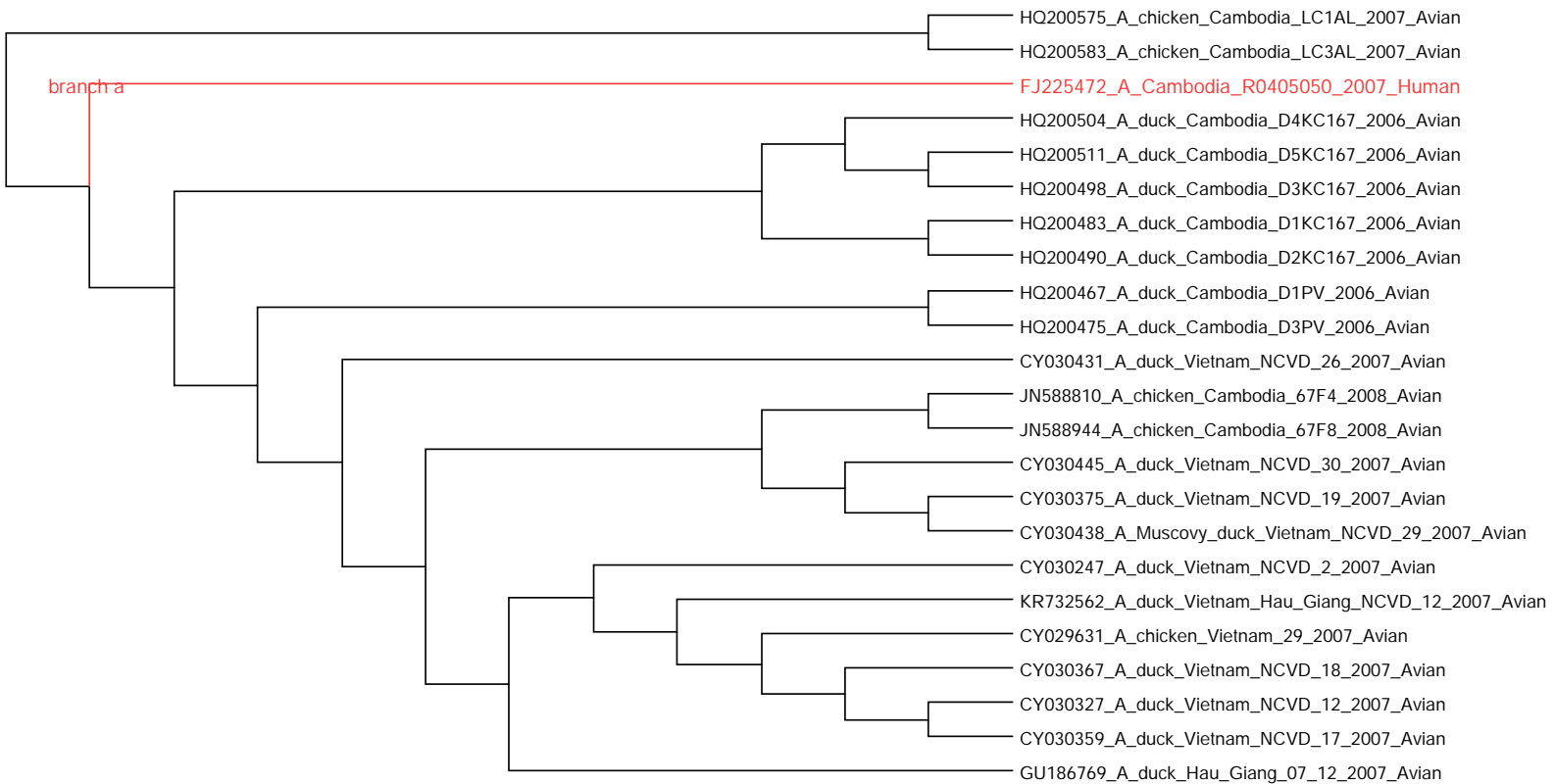
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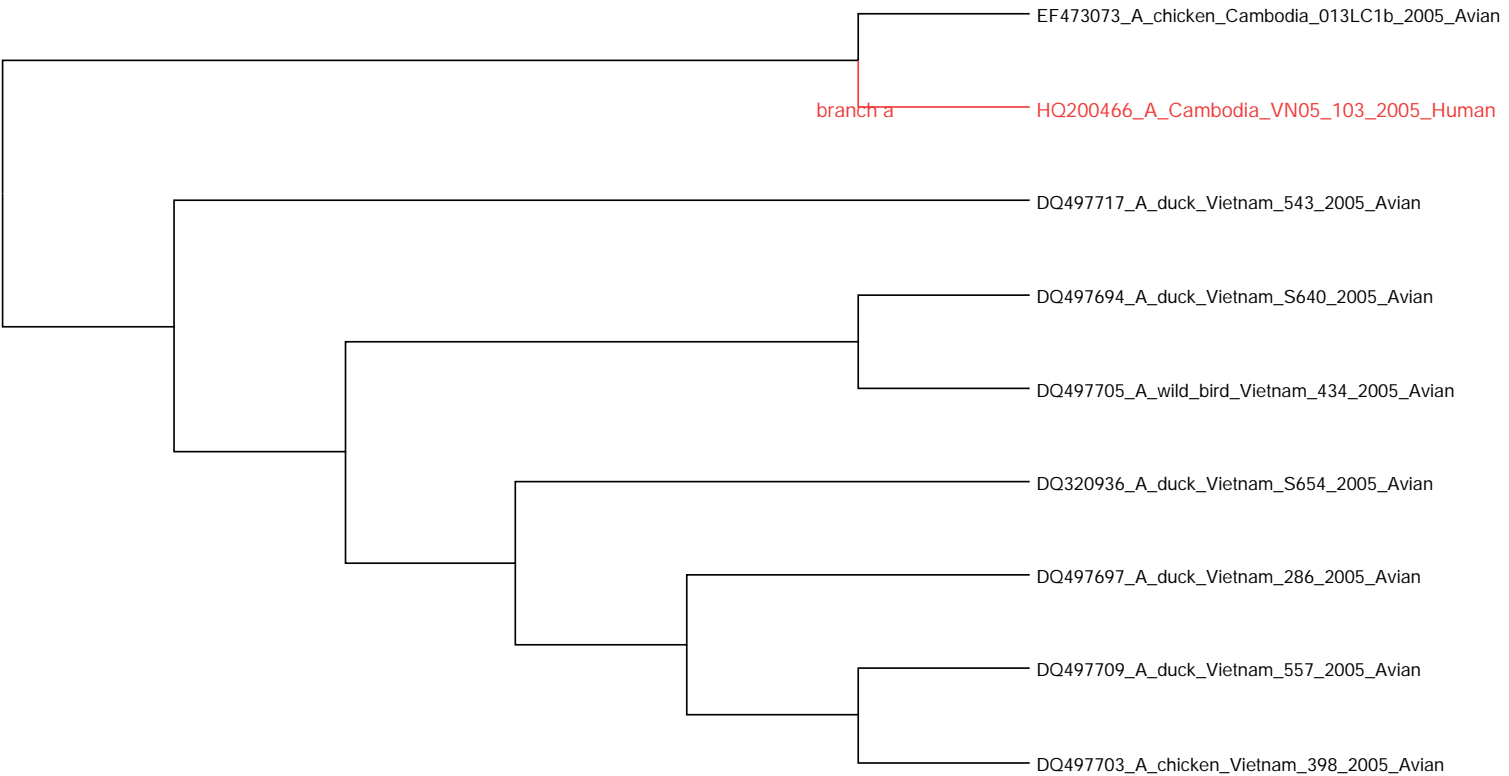
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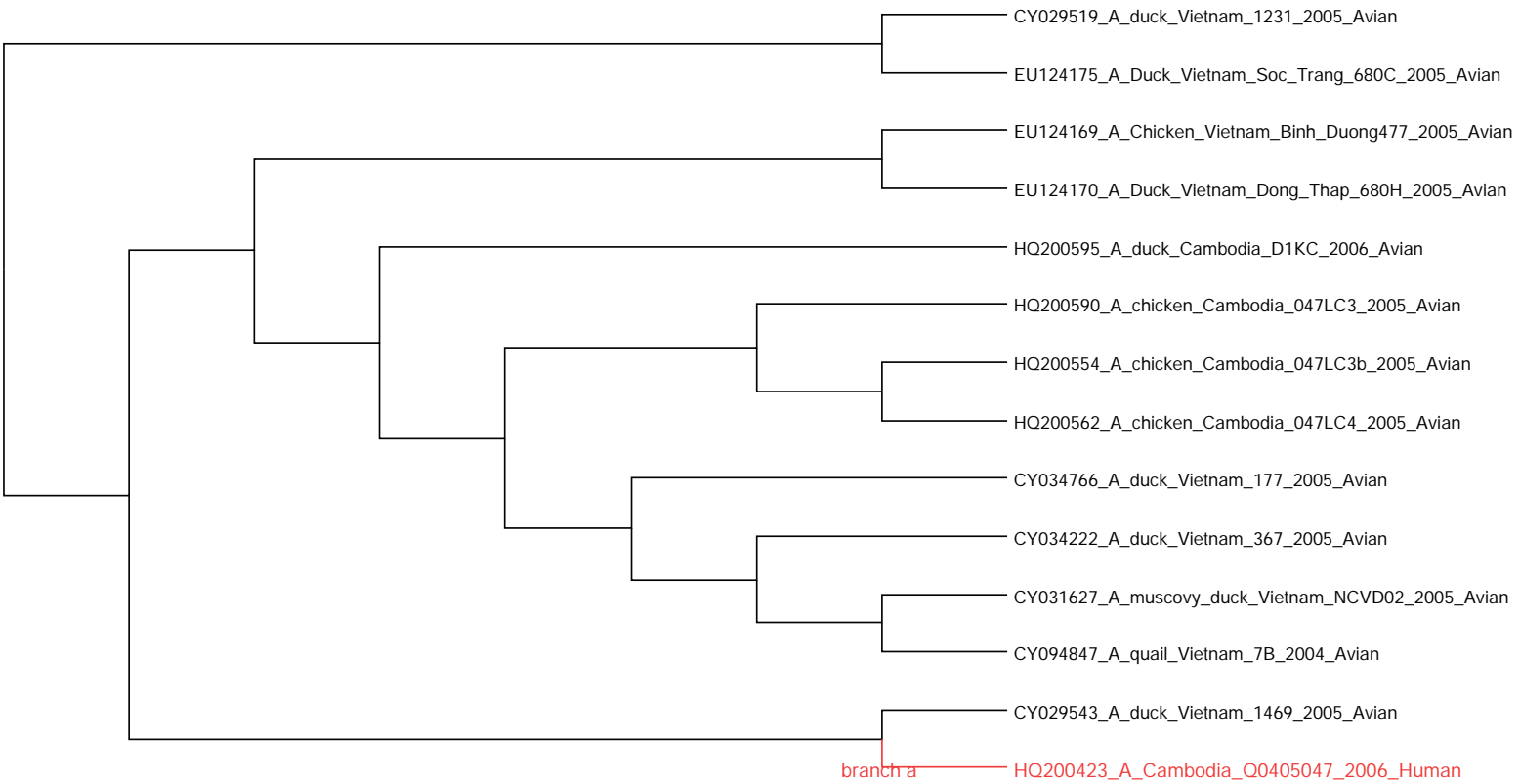
HA-Group50



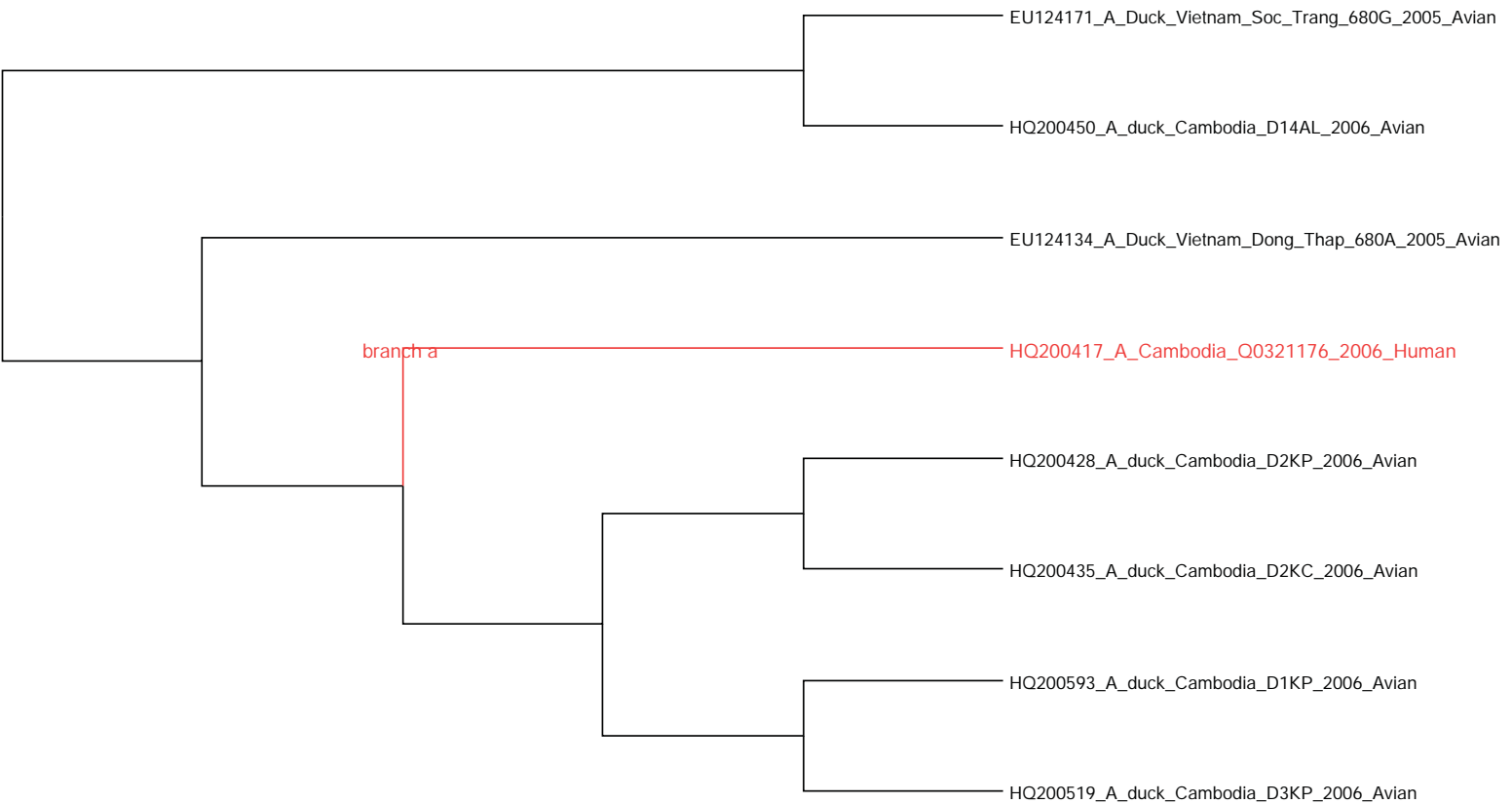
HA-Group 51



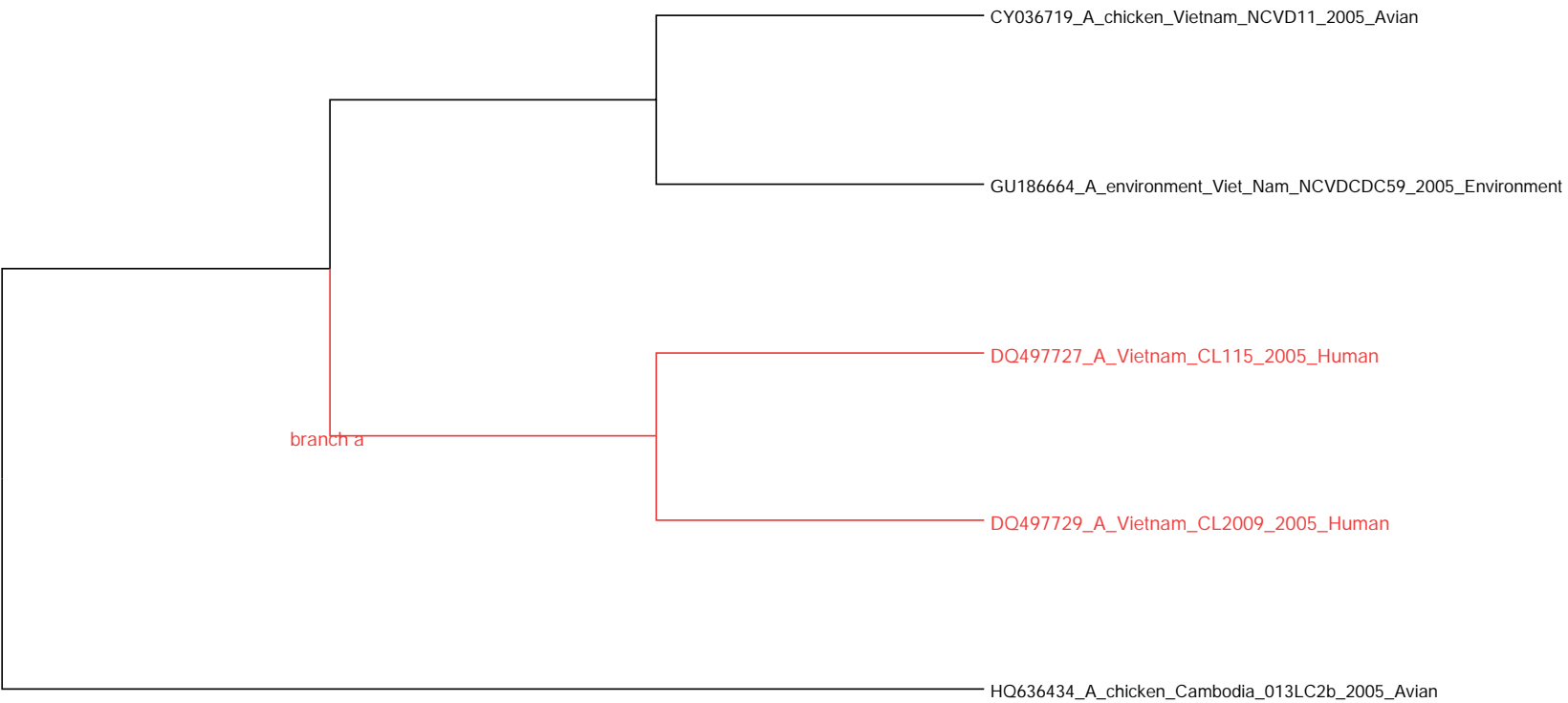
HA-Group52



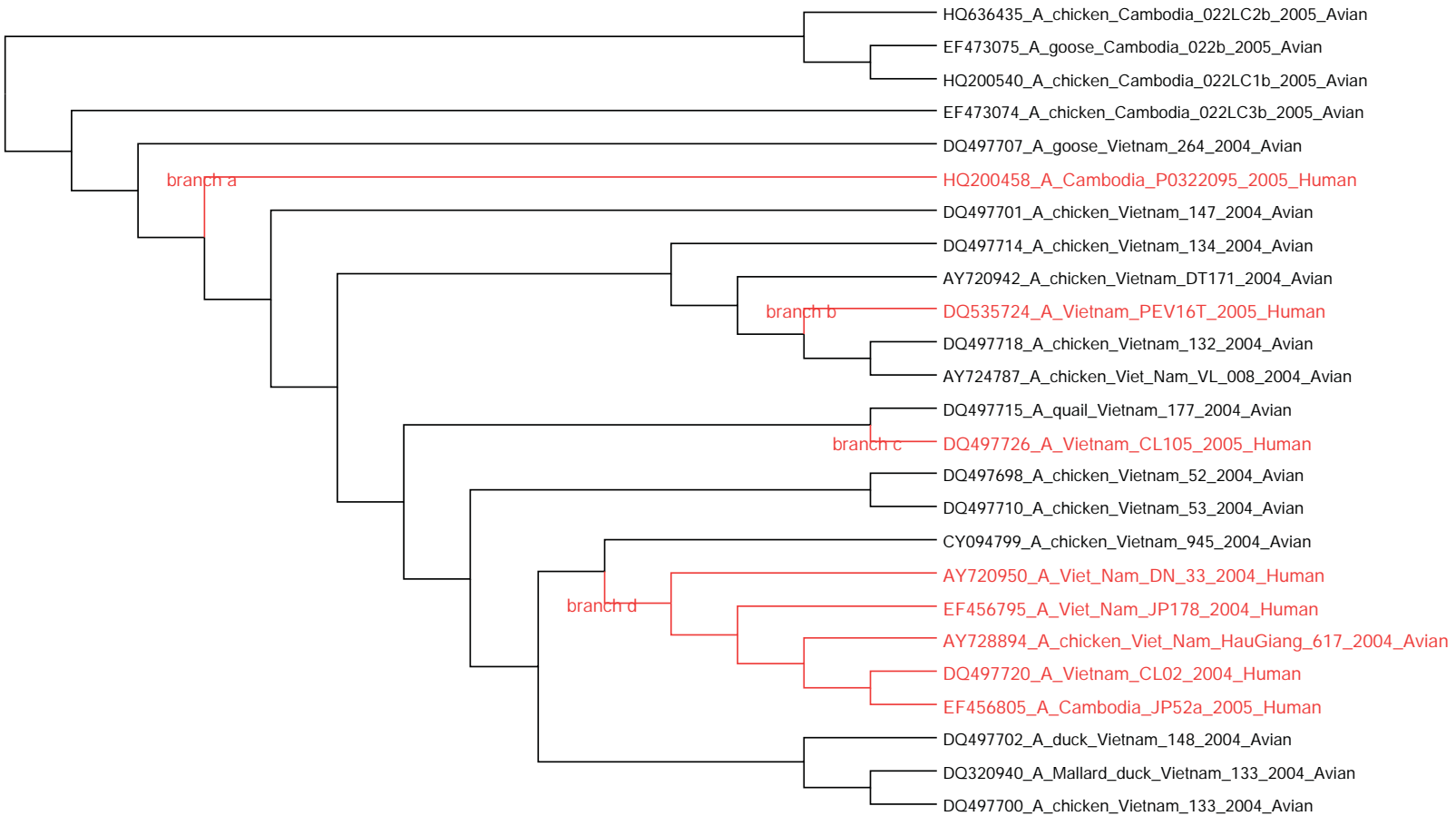
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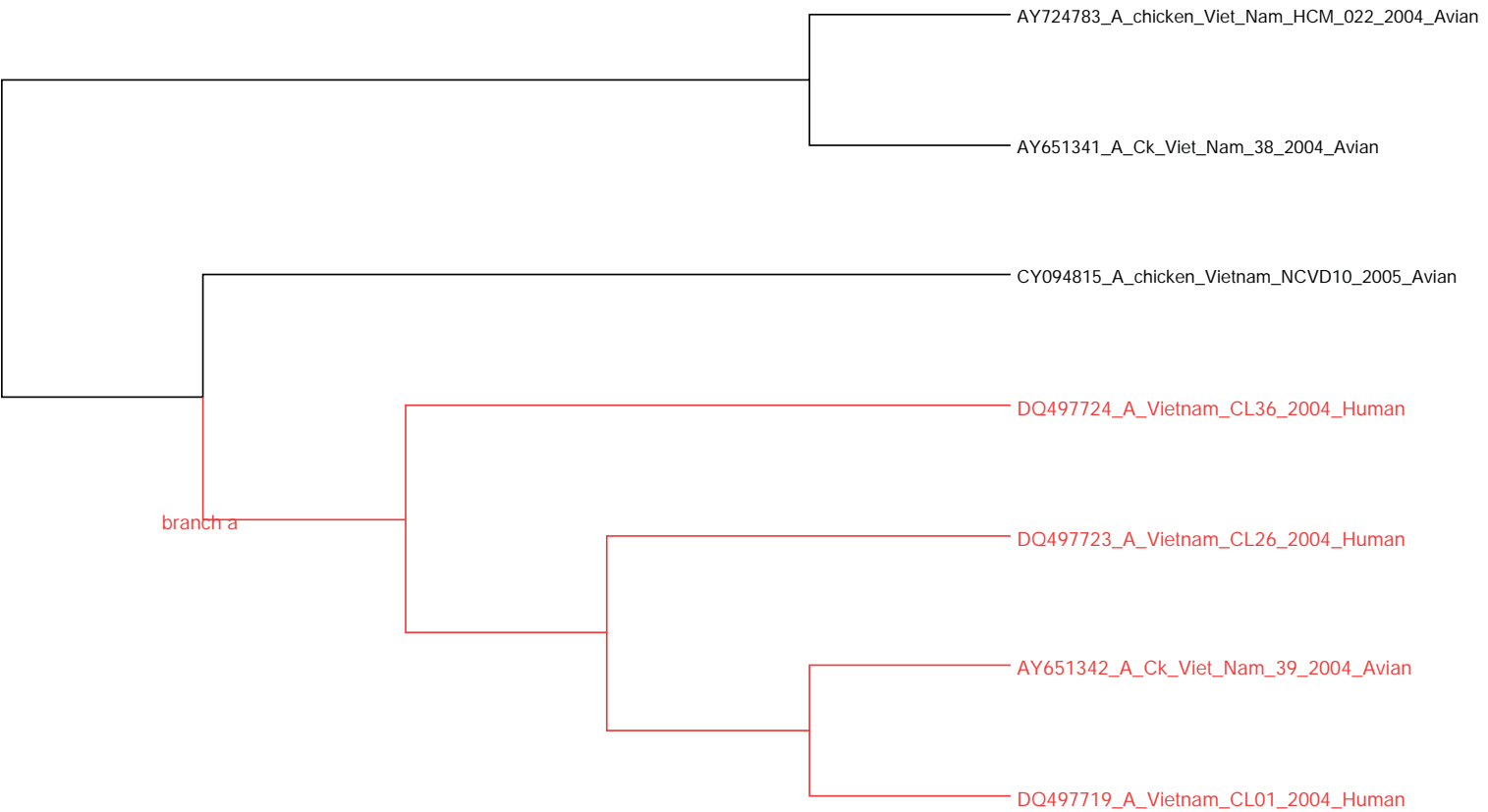
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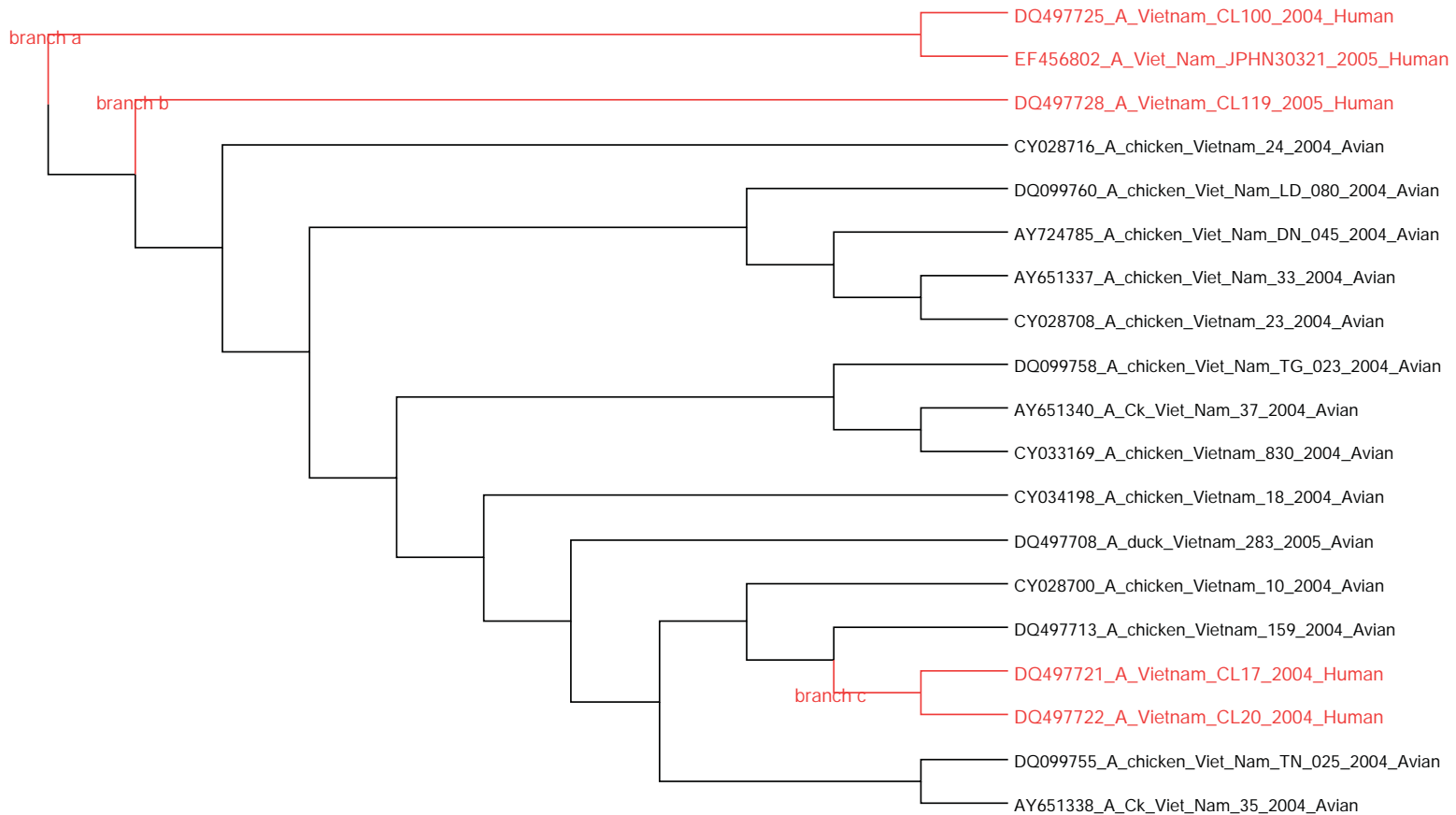
HA-Group55



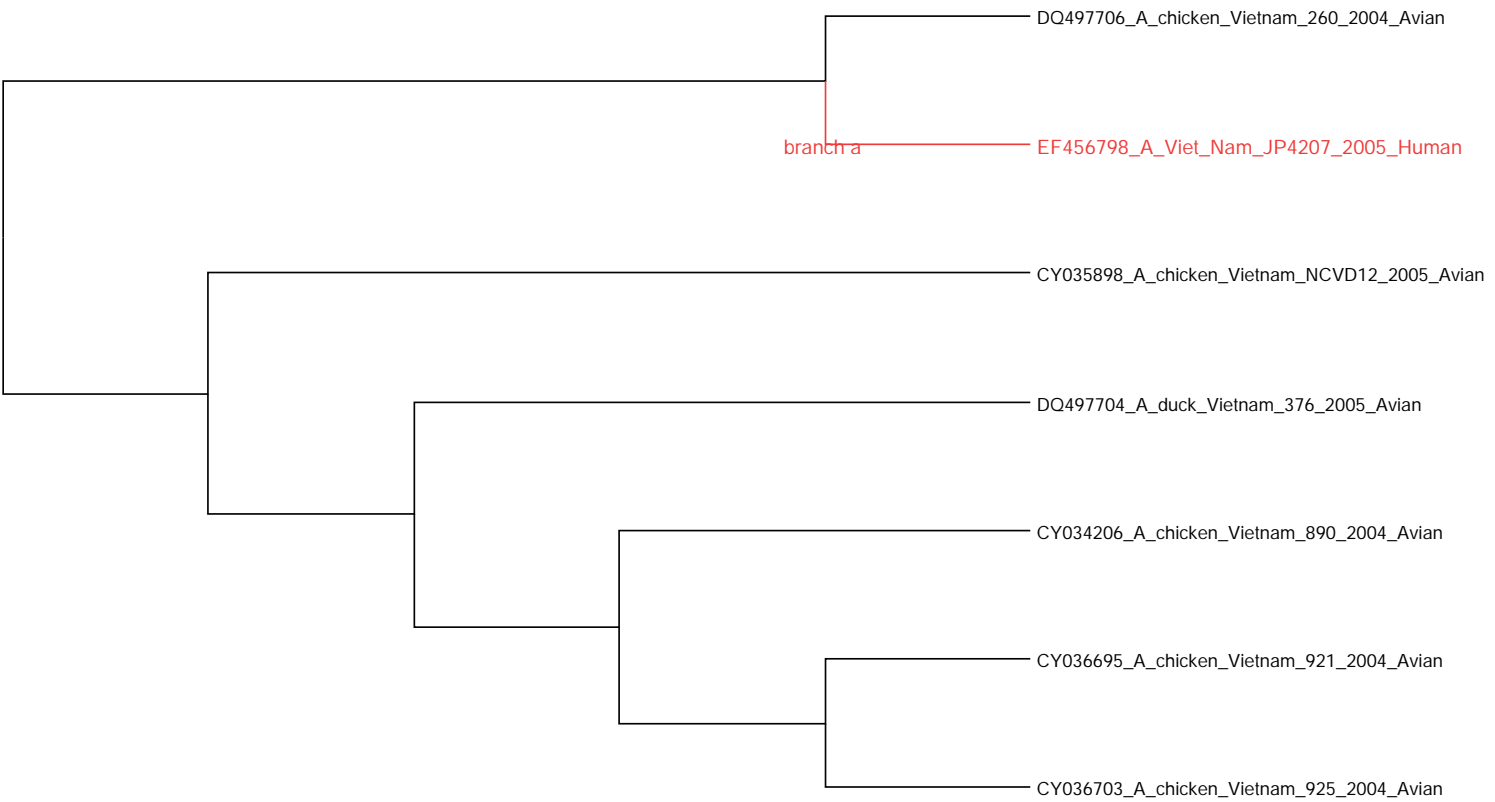
HA-Group56



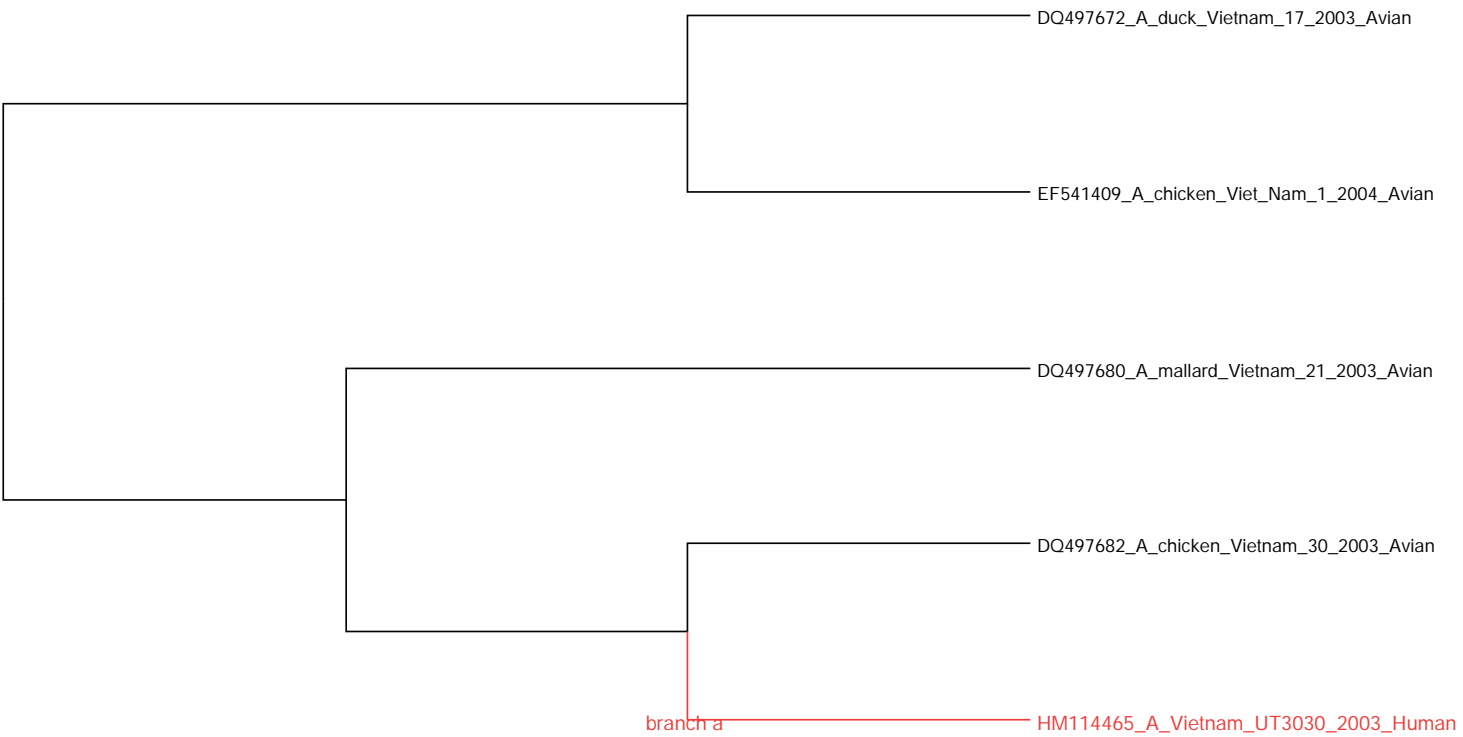
HA-Group57



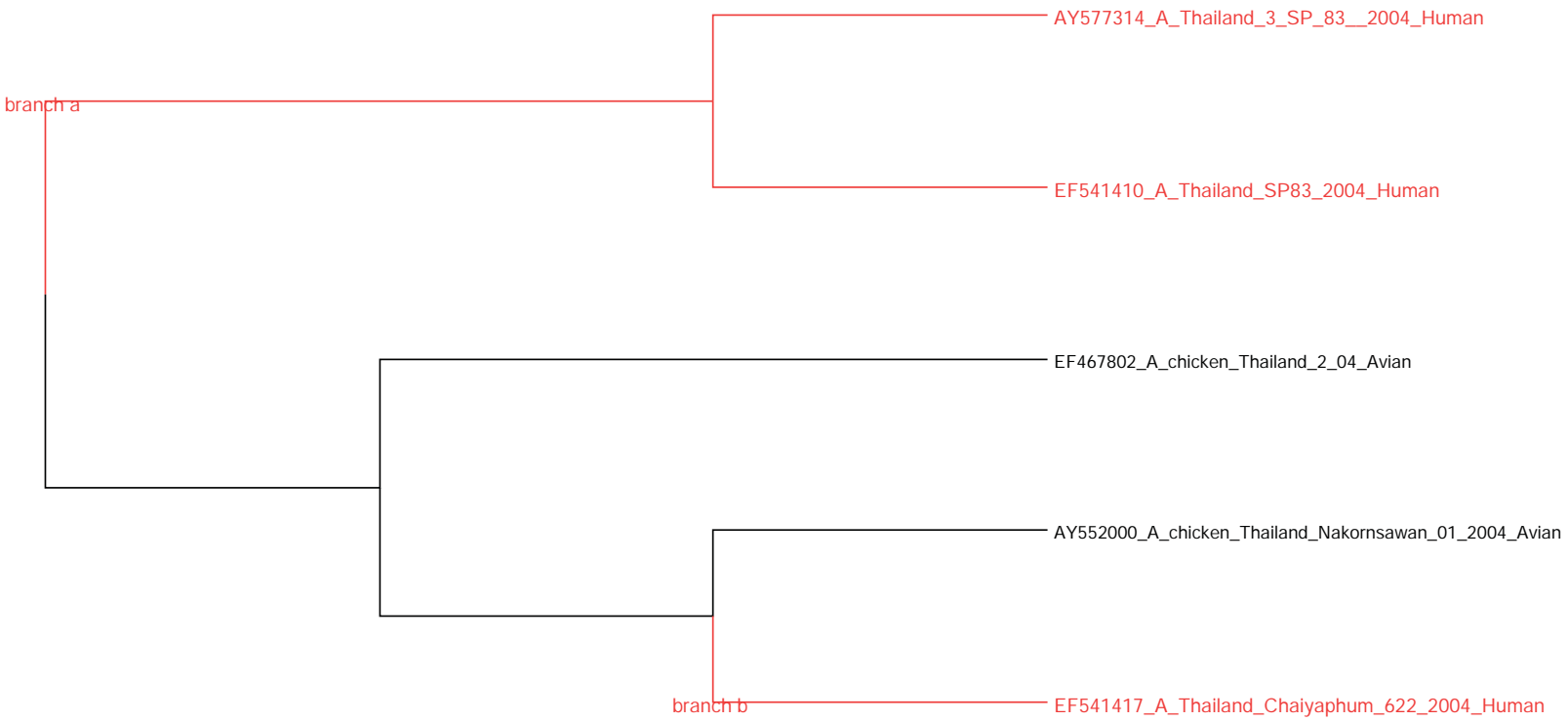
HA-Group58



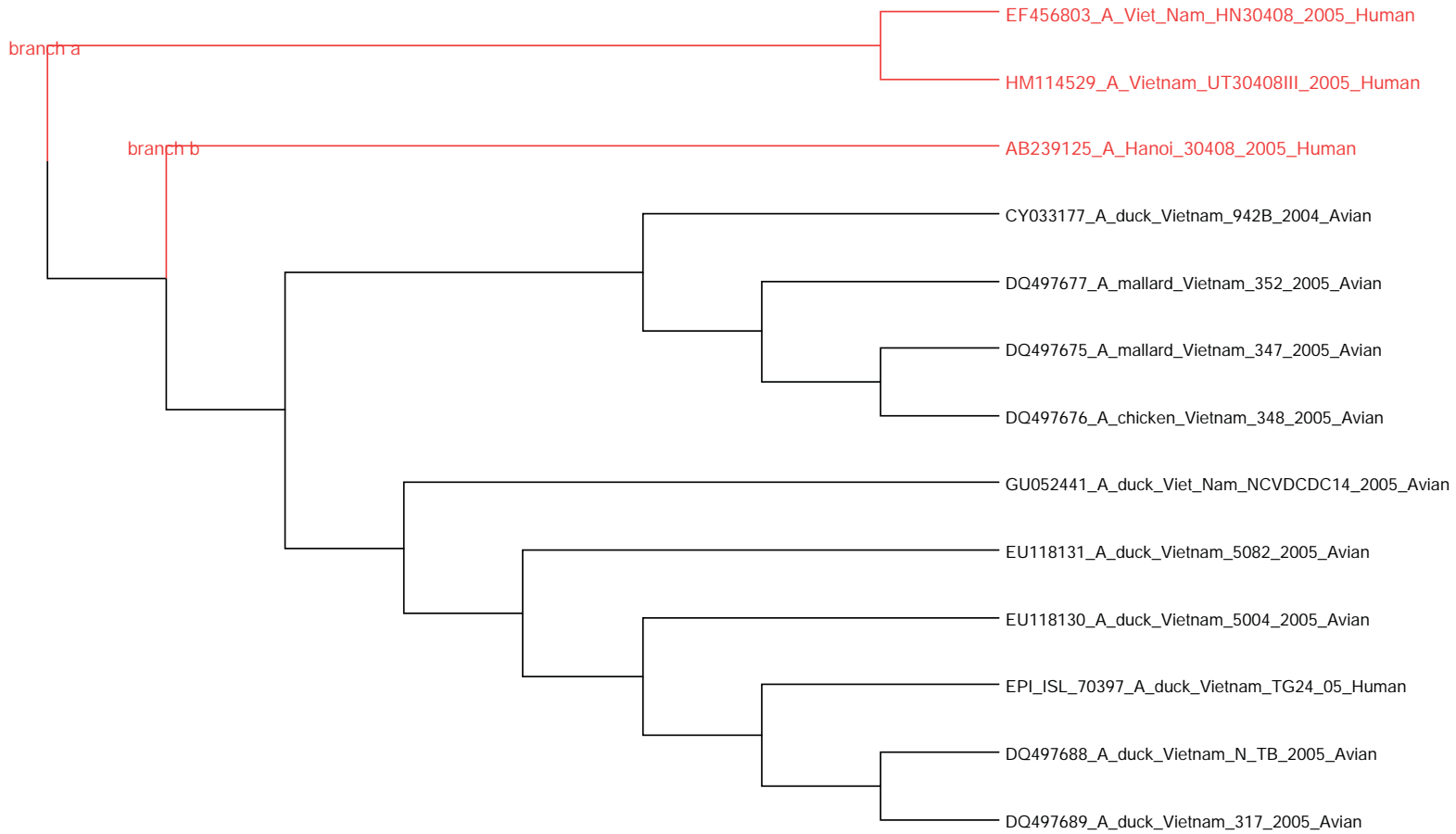
HA-Group59



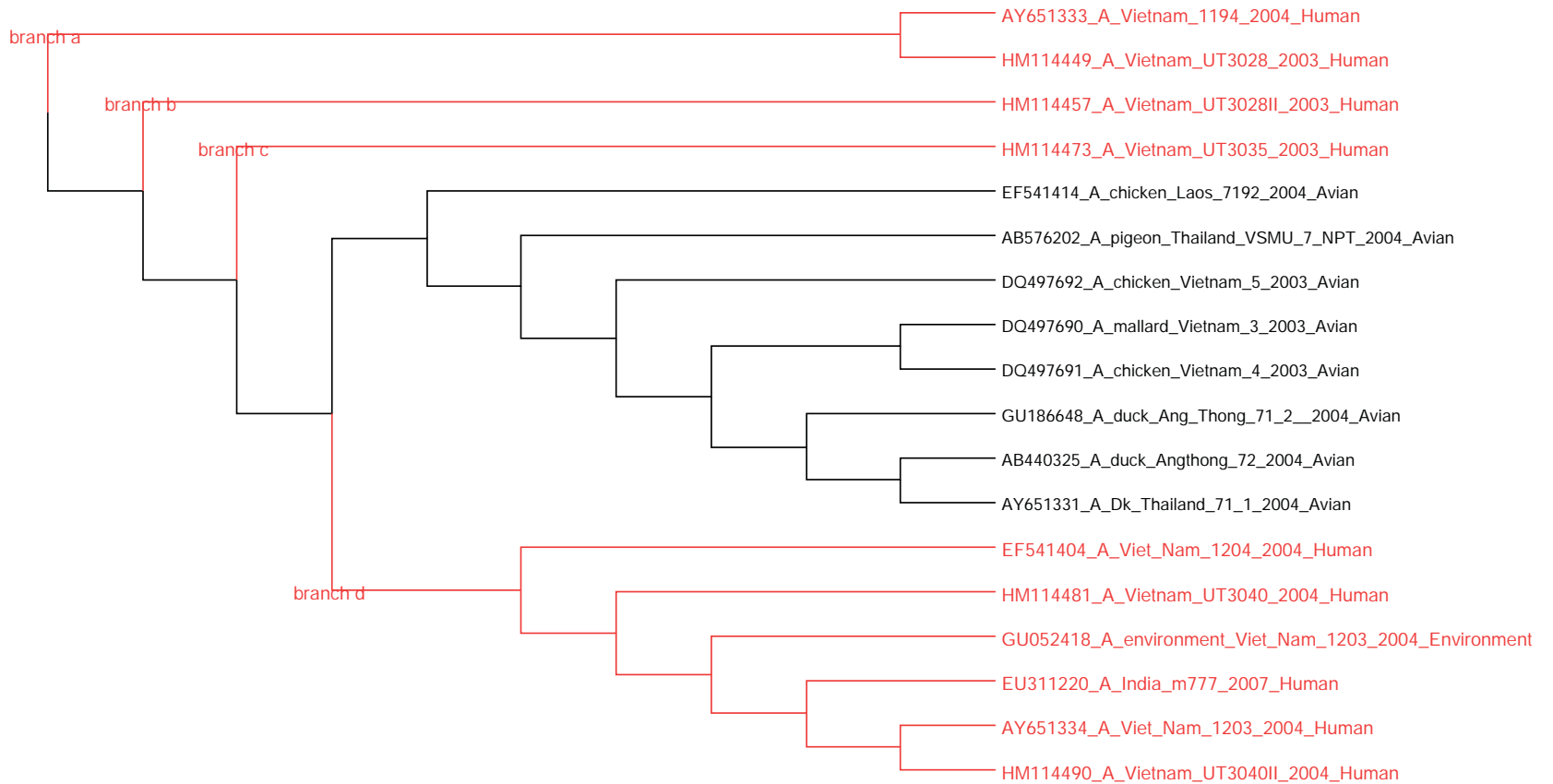
HA-Group60



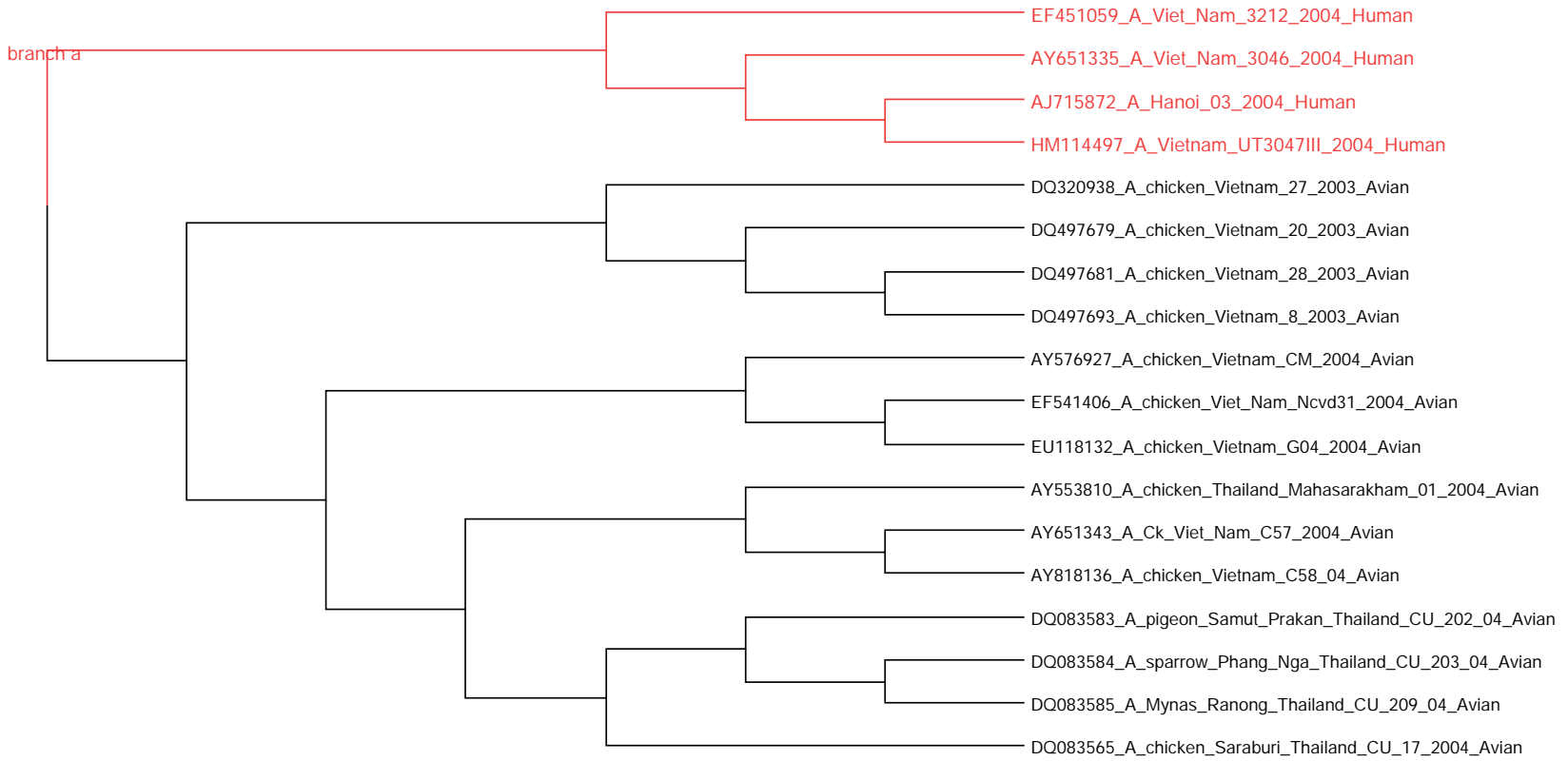
HA-Group61



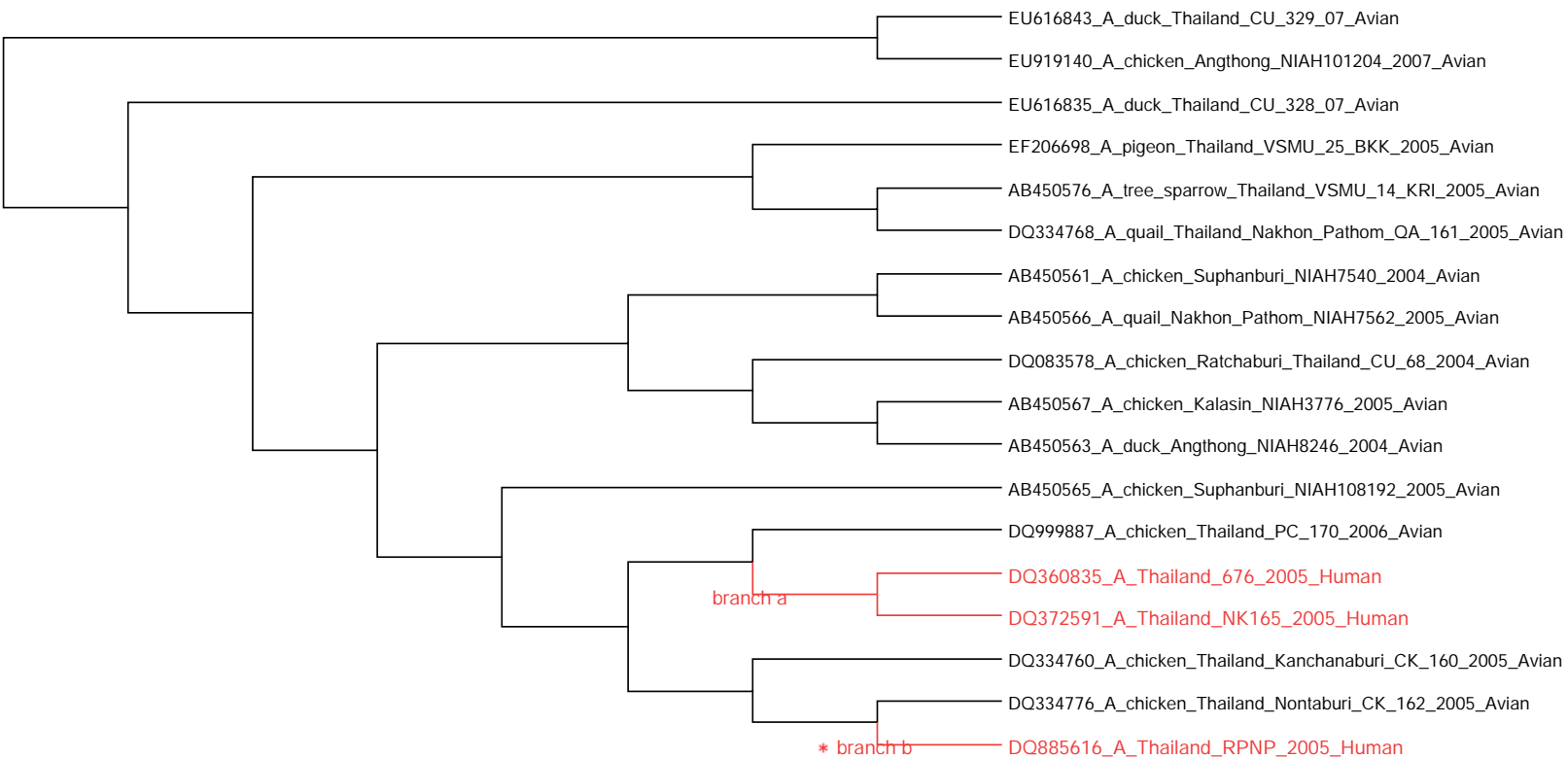
HA-Group62



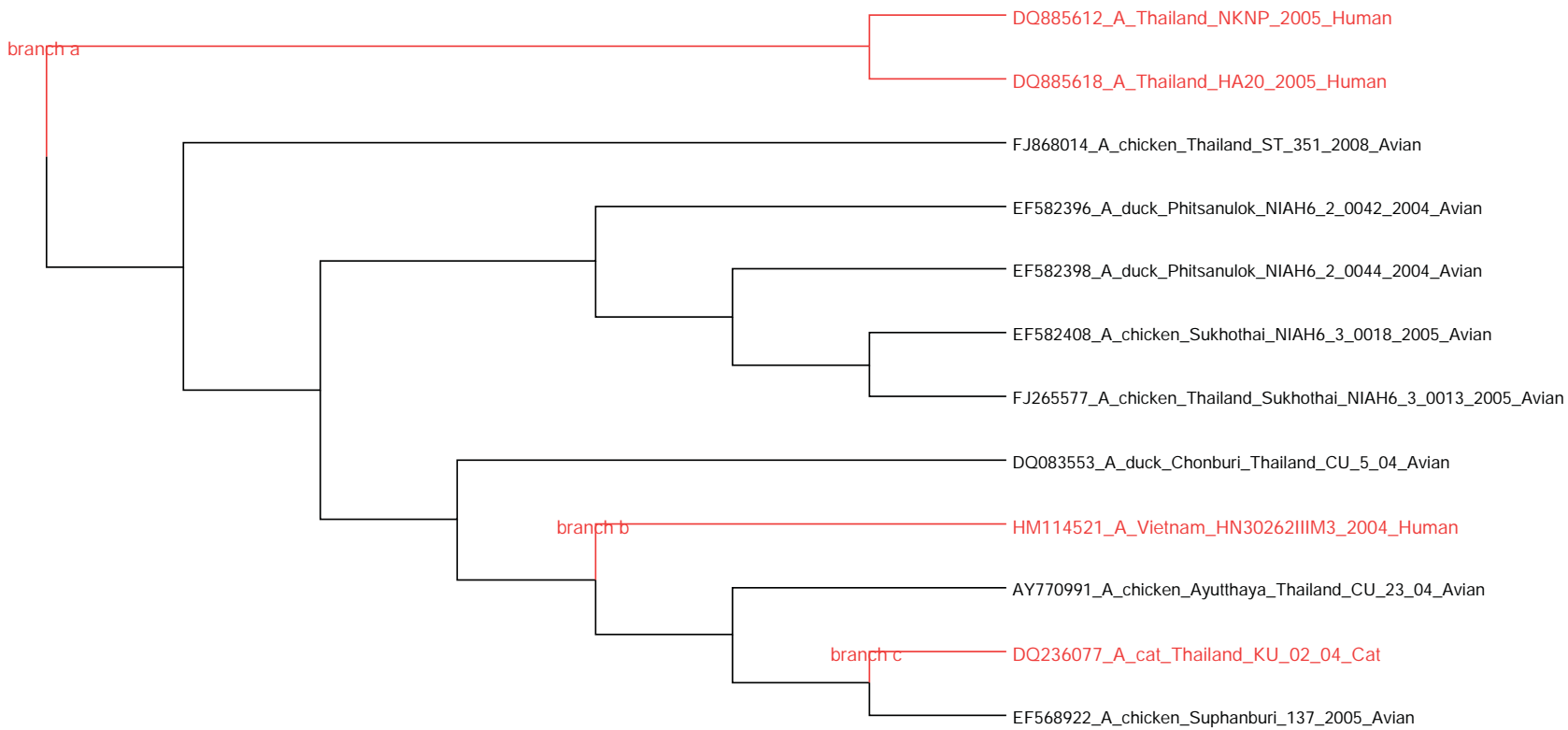
HA-Group63



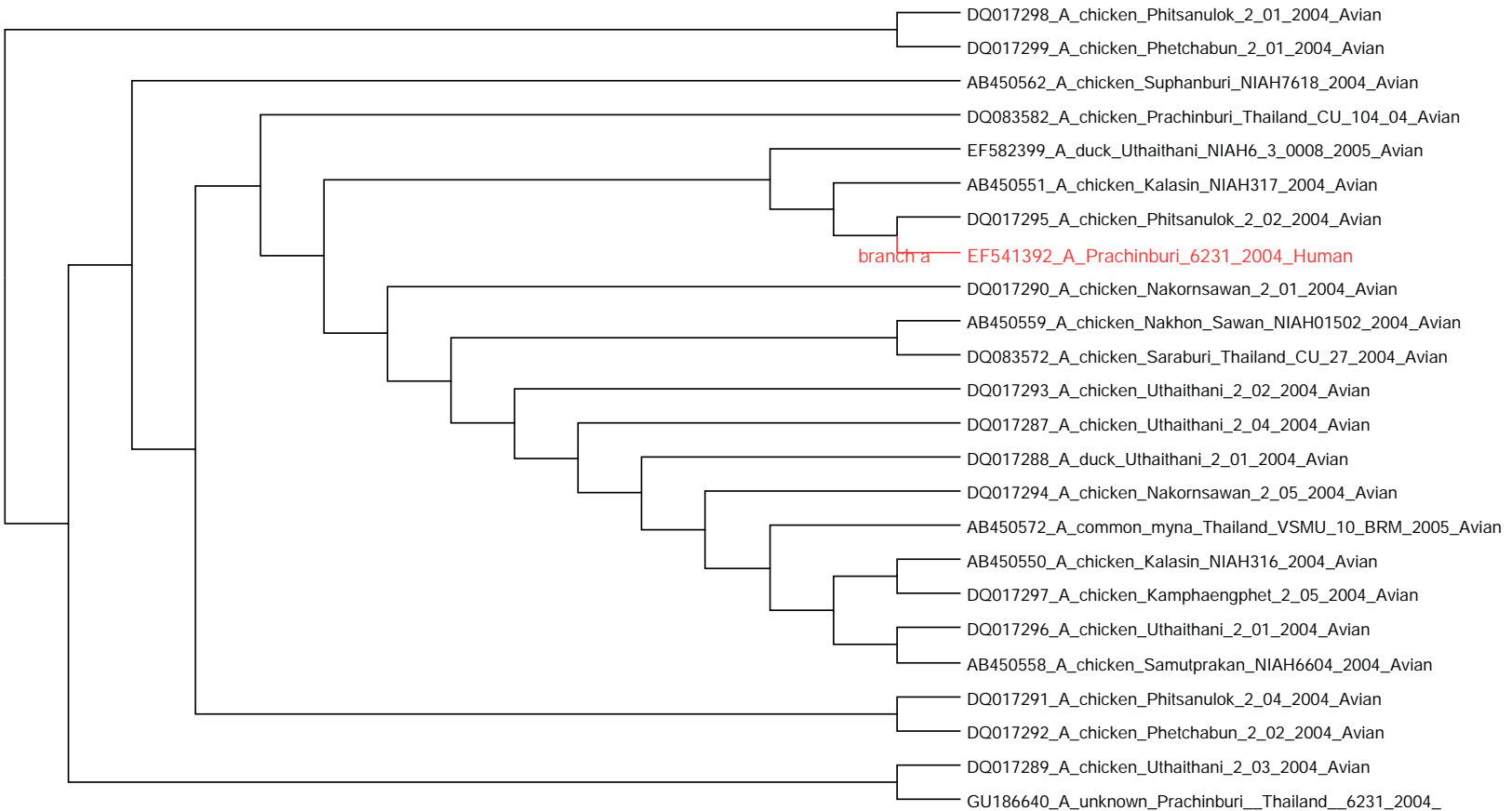
HA-Group64



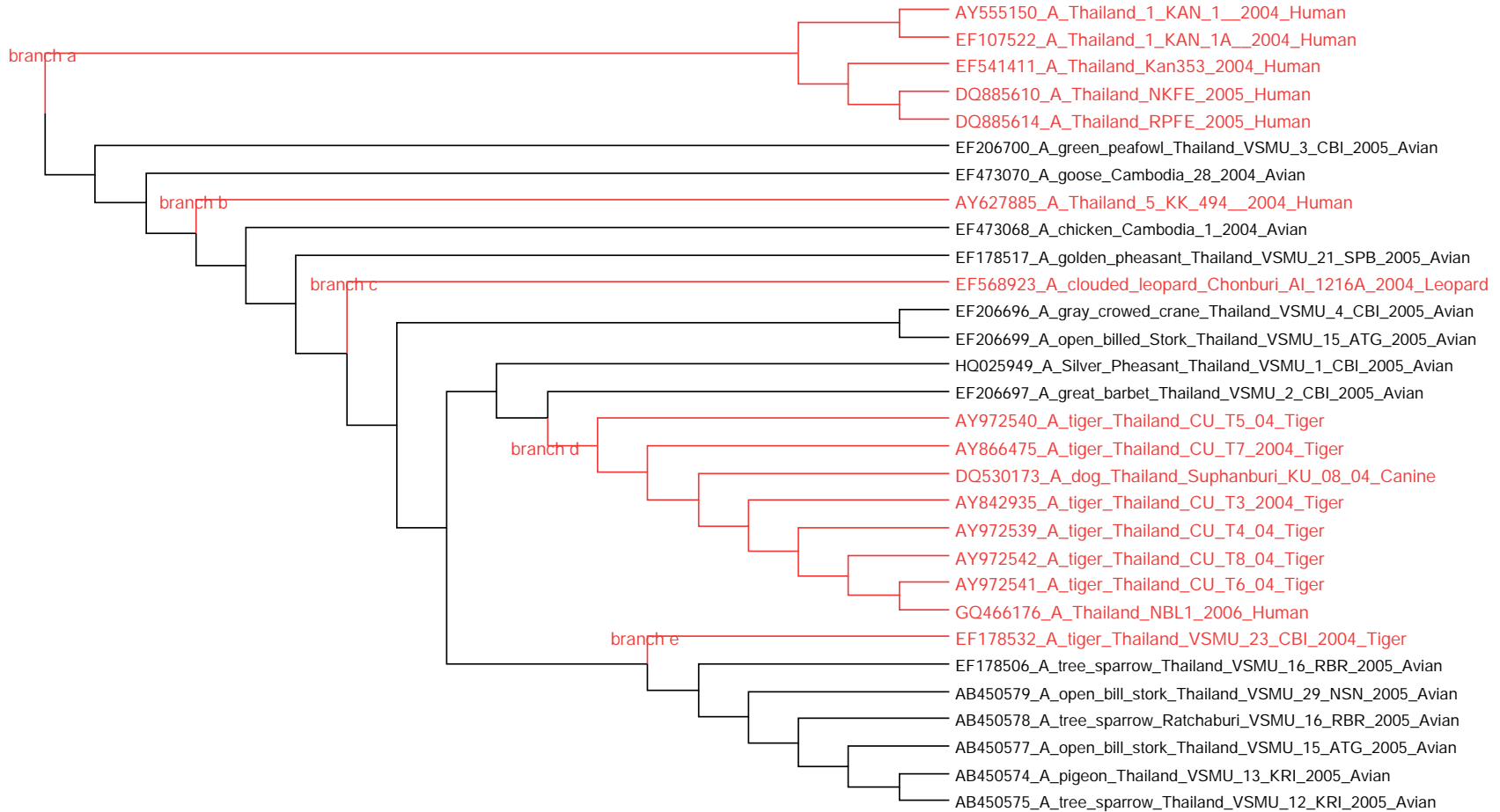
HA-Group65



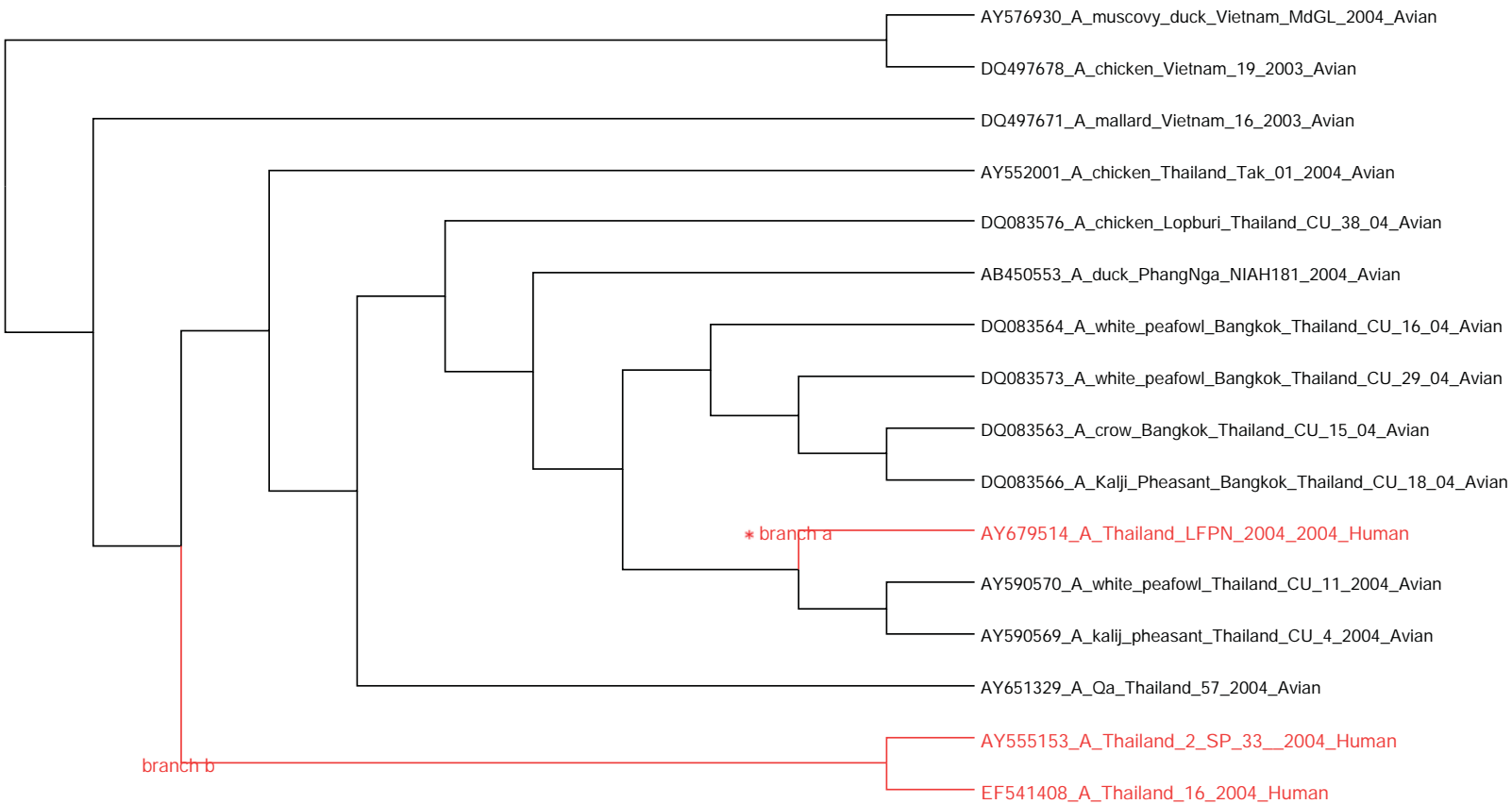
HA-Group66



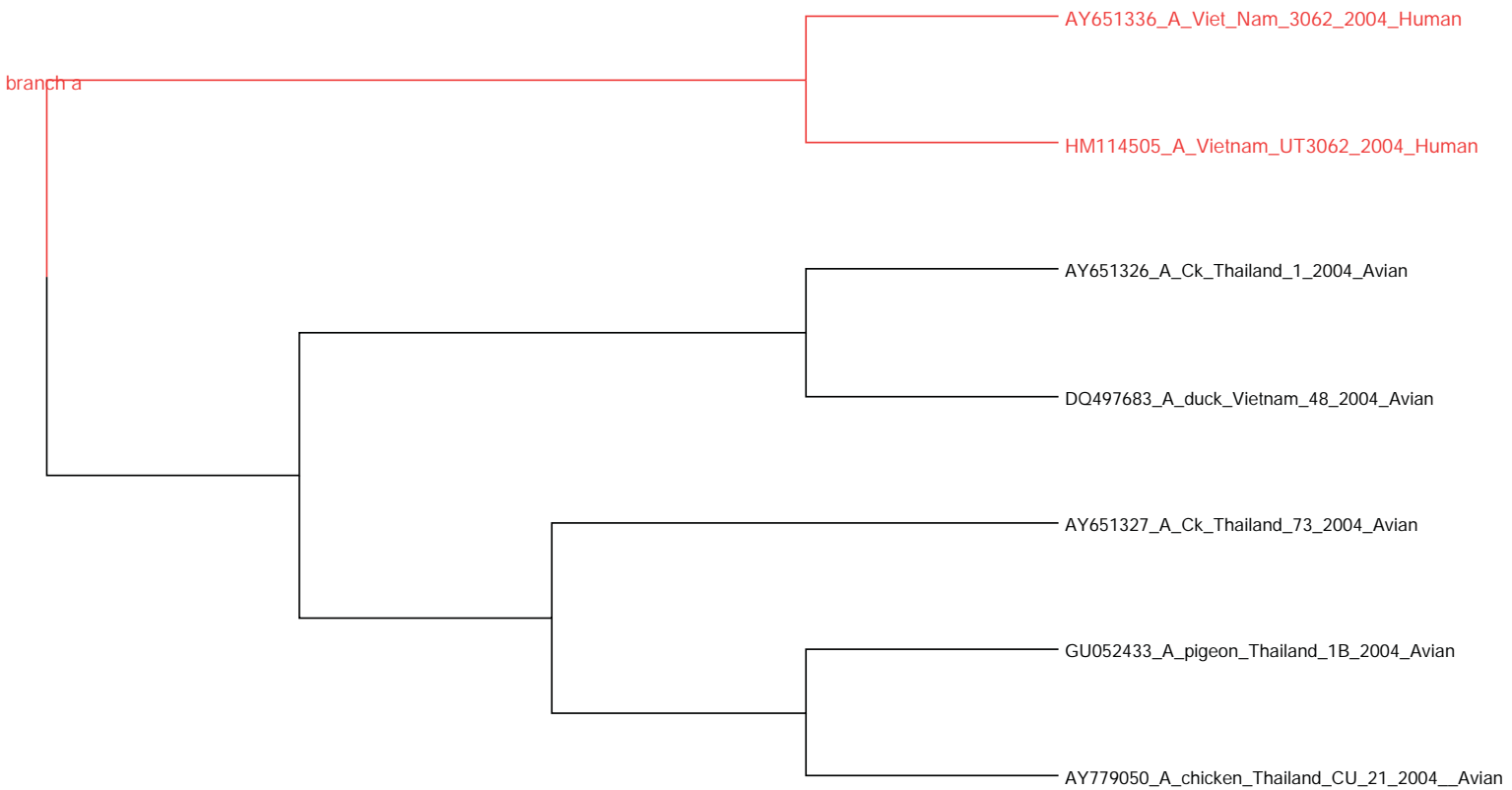
HA-Group67



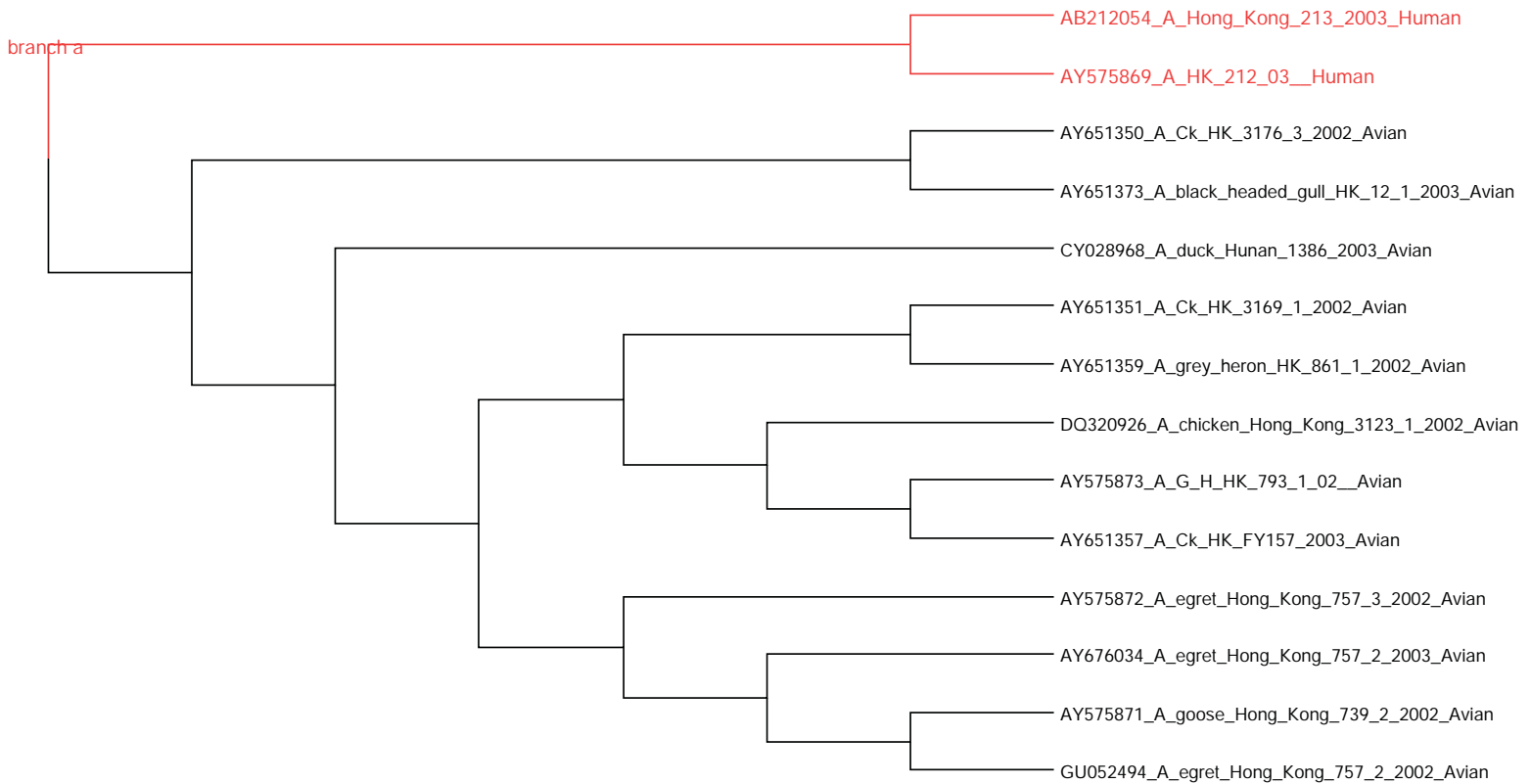
HA-Group68



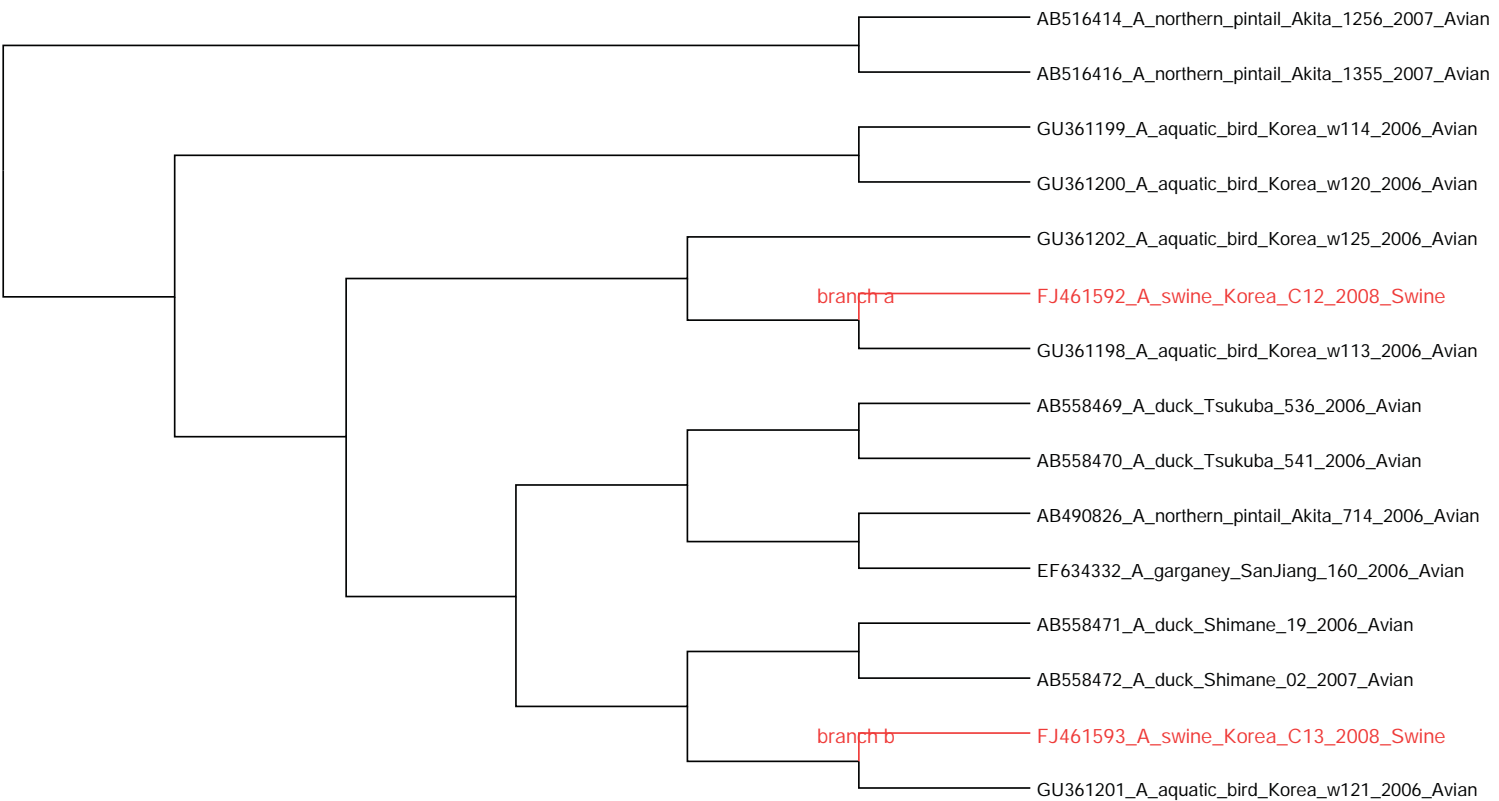
HA-Group69



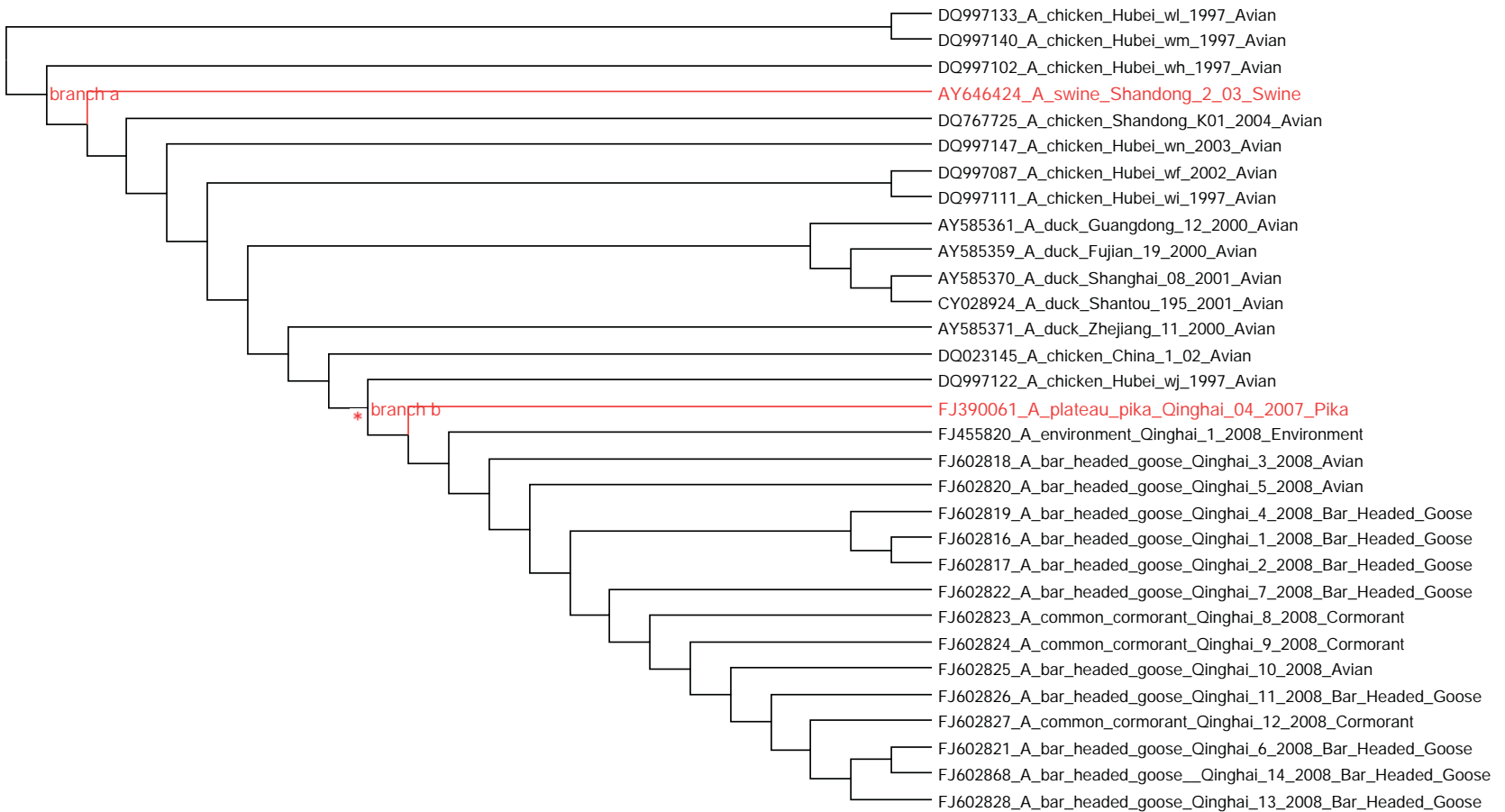
HA-Group70



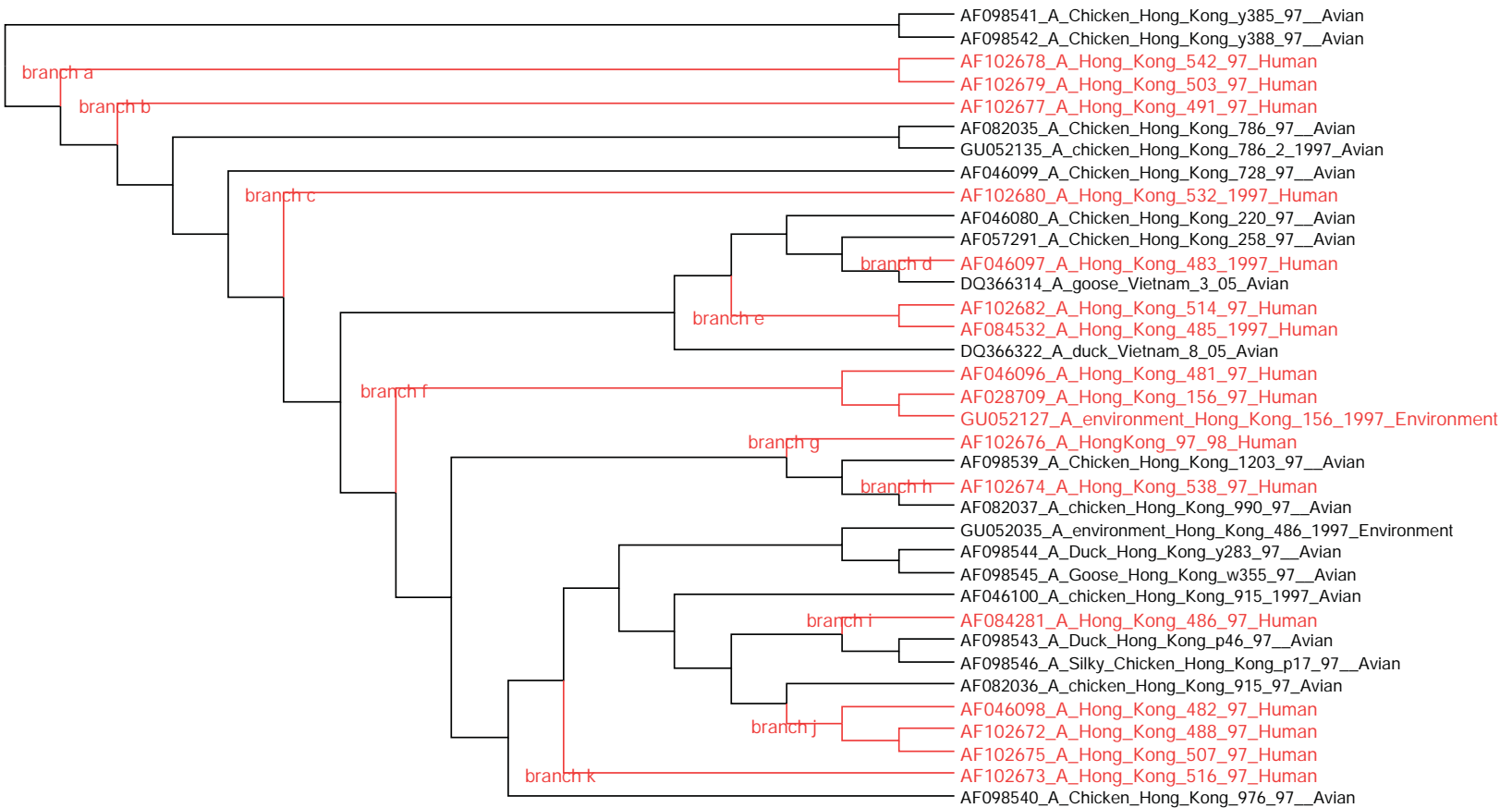
HA-Group71



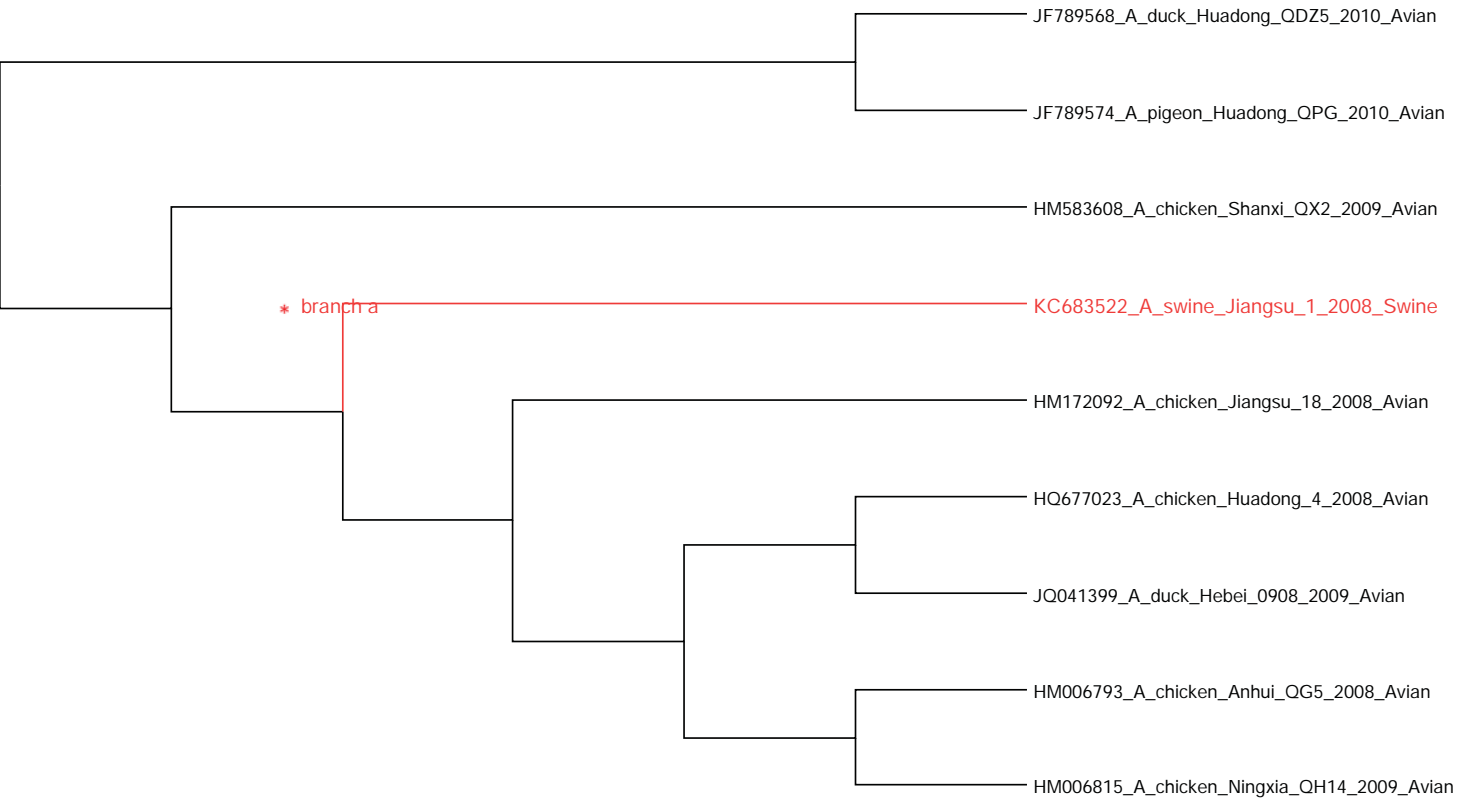
HA-Group72



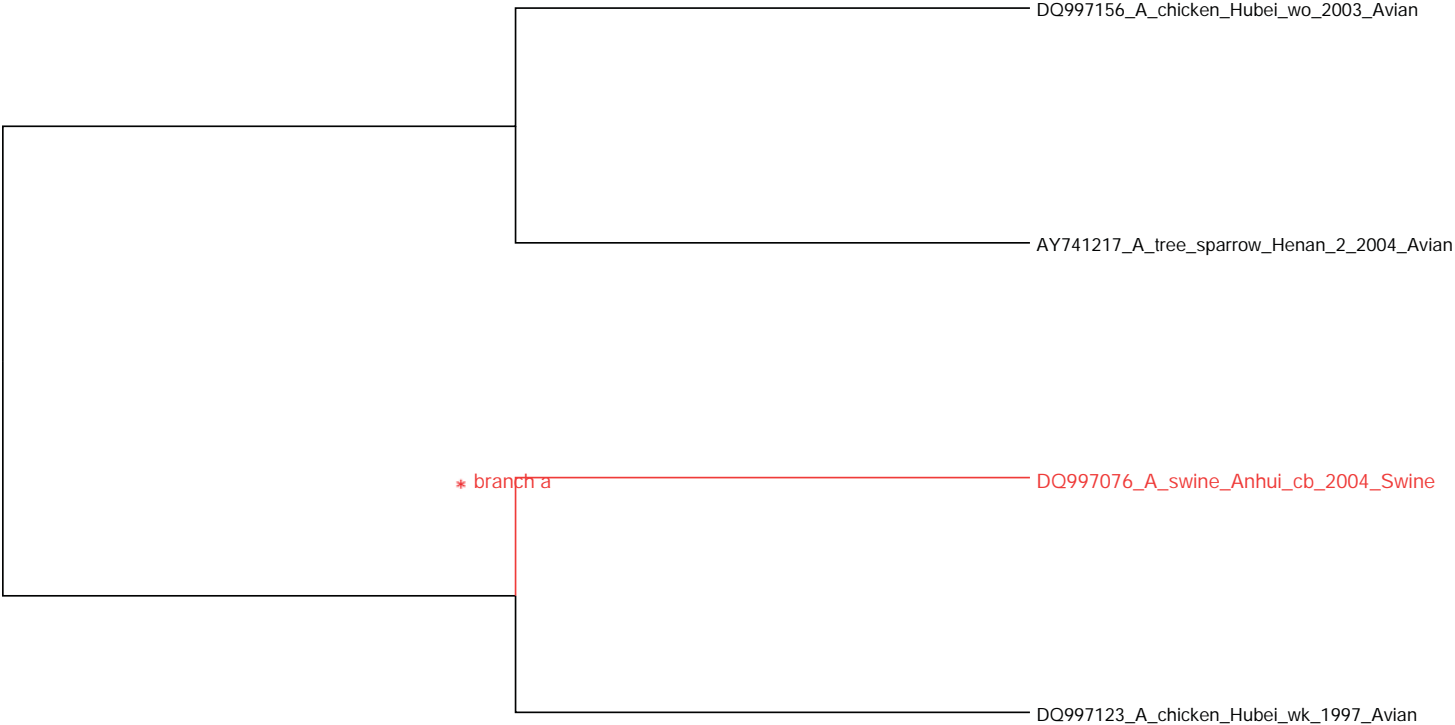
HA-Group73



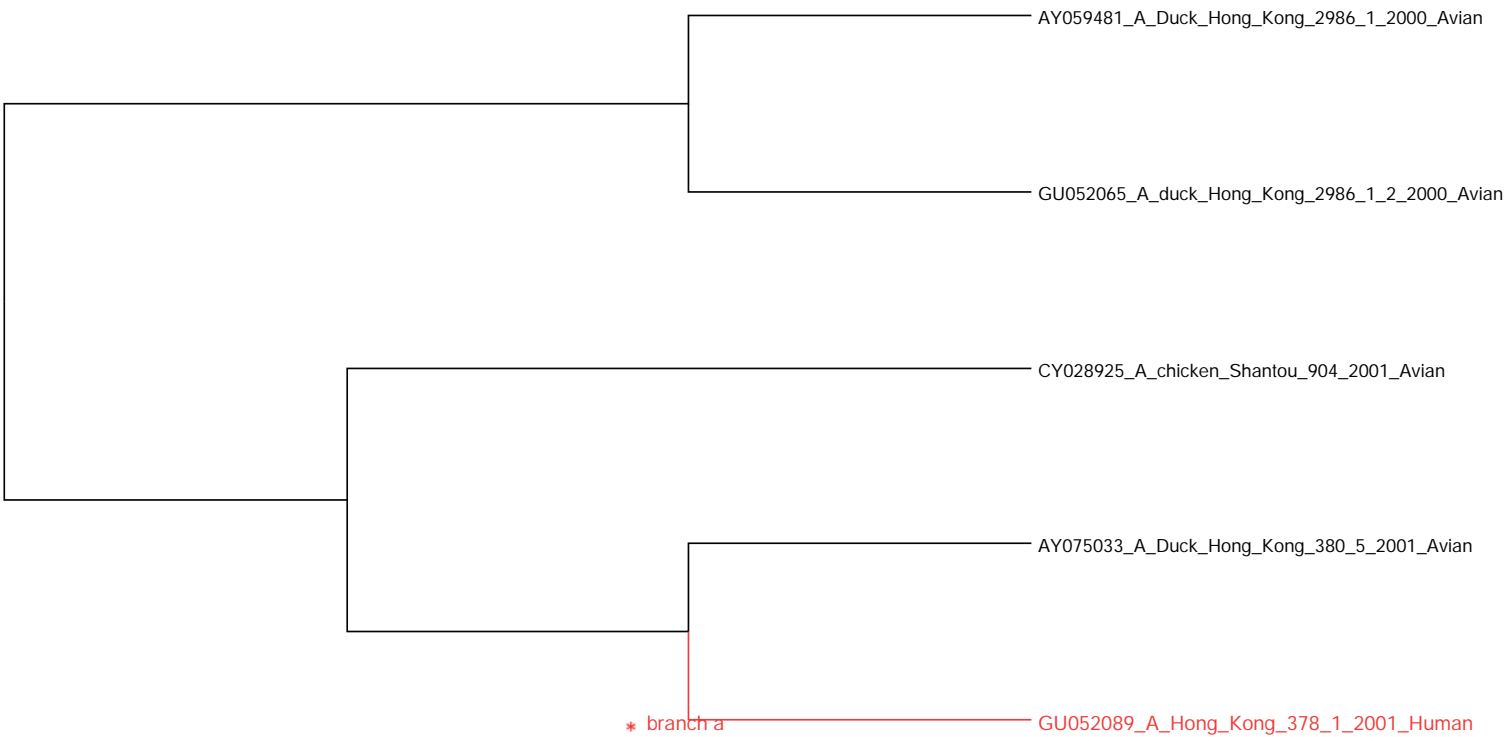
HA-Group74



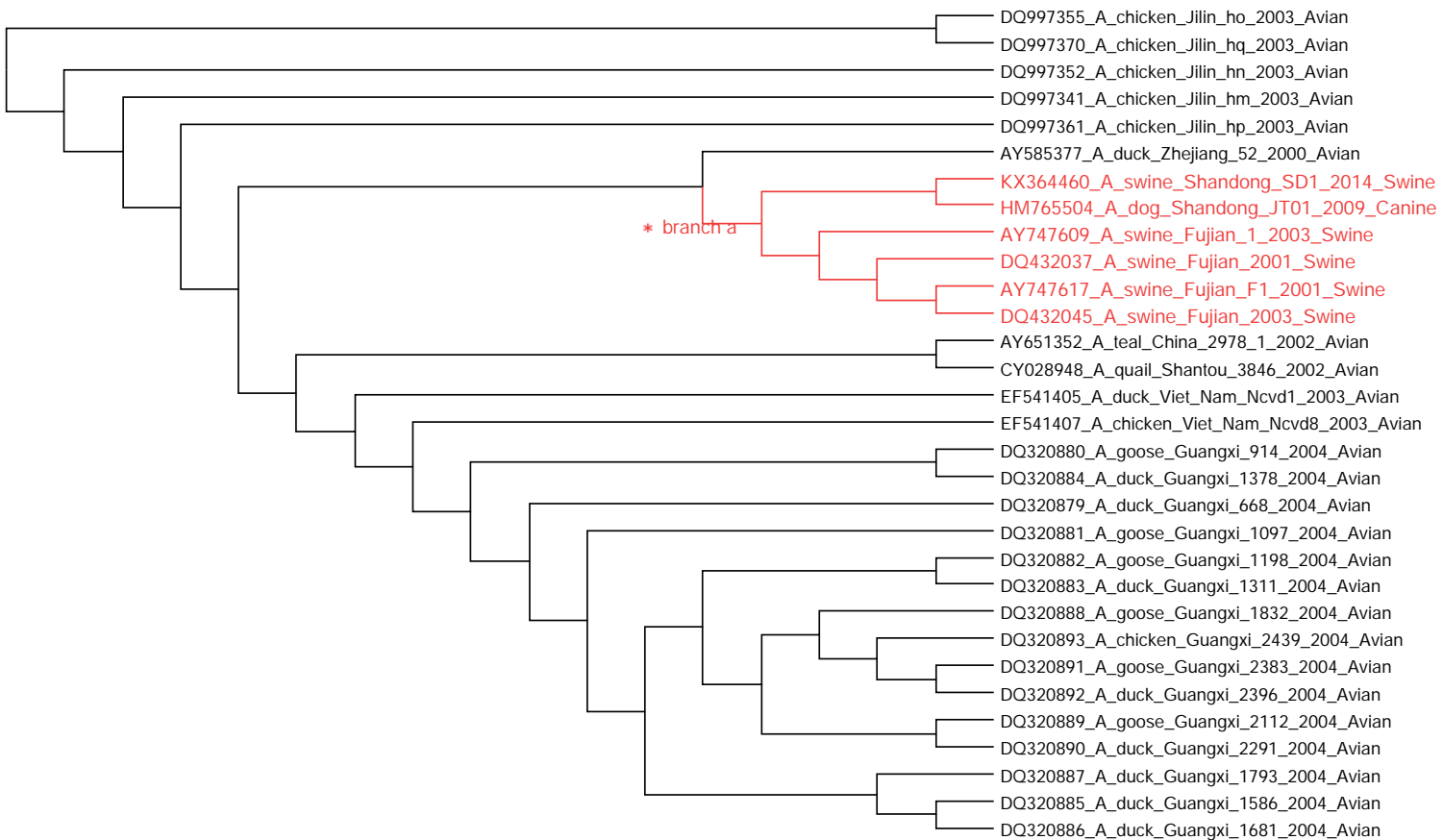
HA-Group75



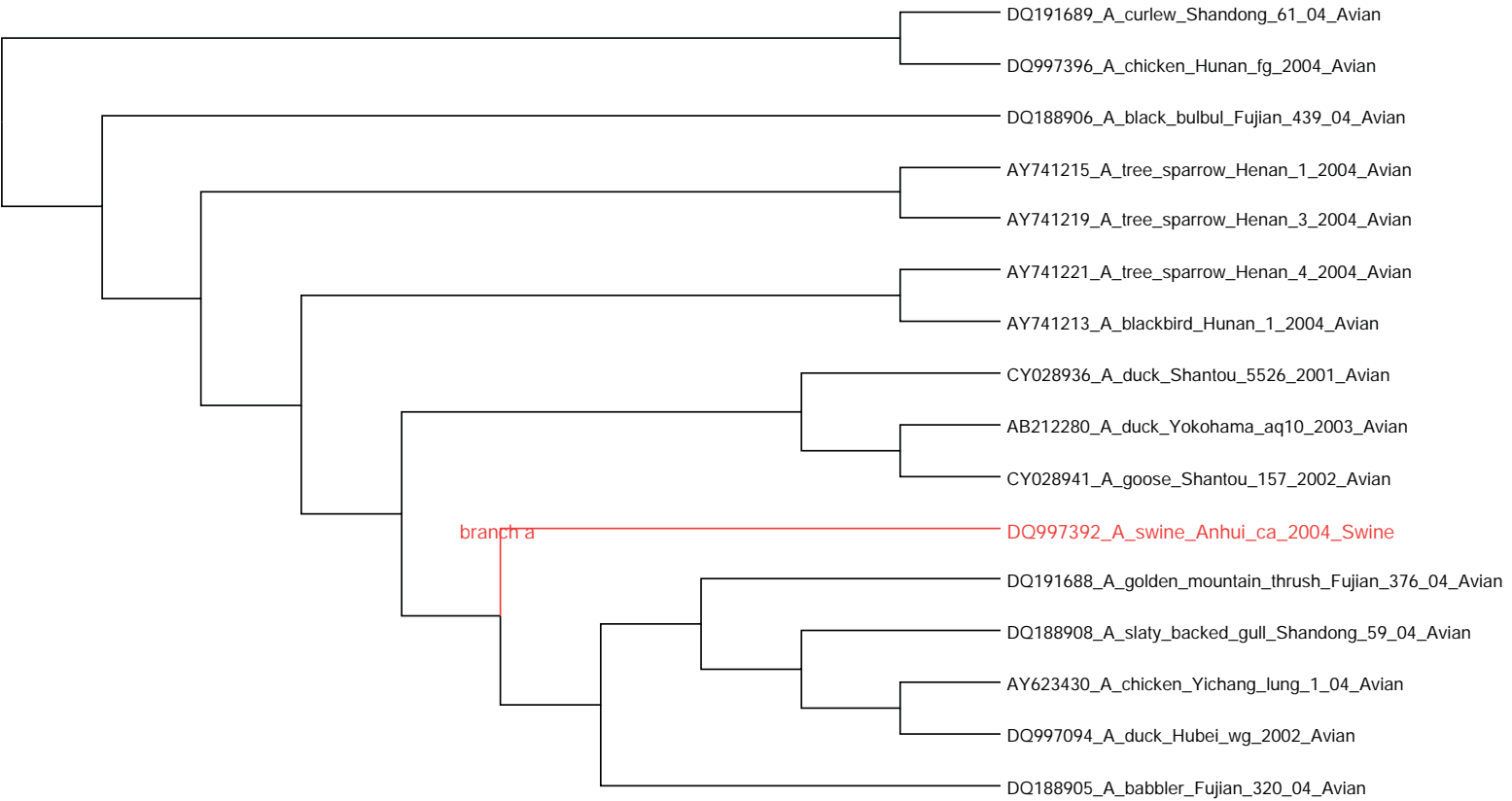
HA-Group76



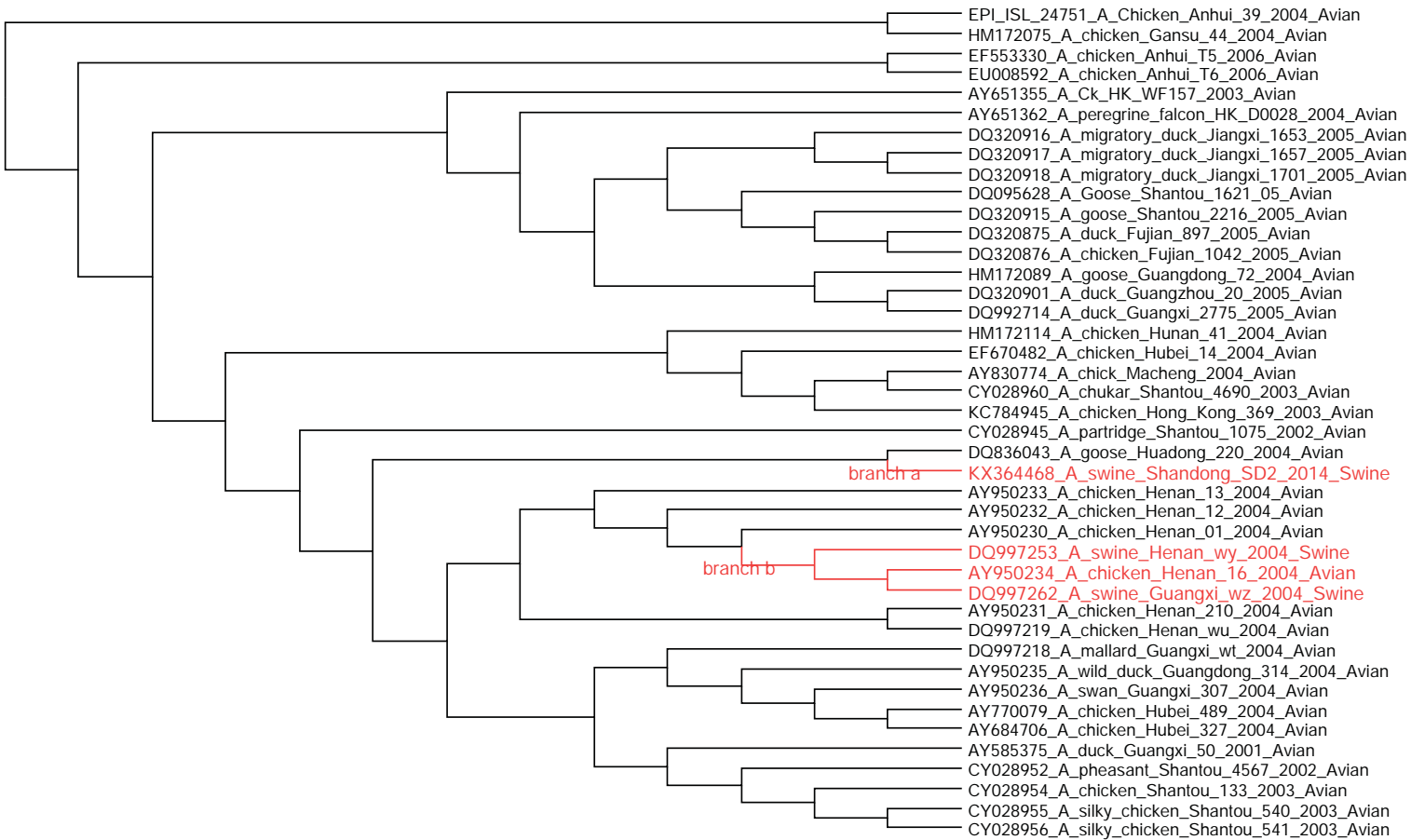
HA-Group77



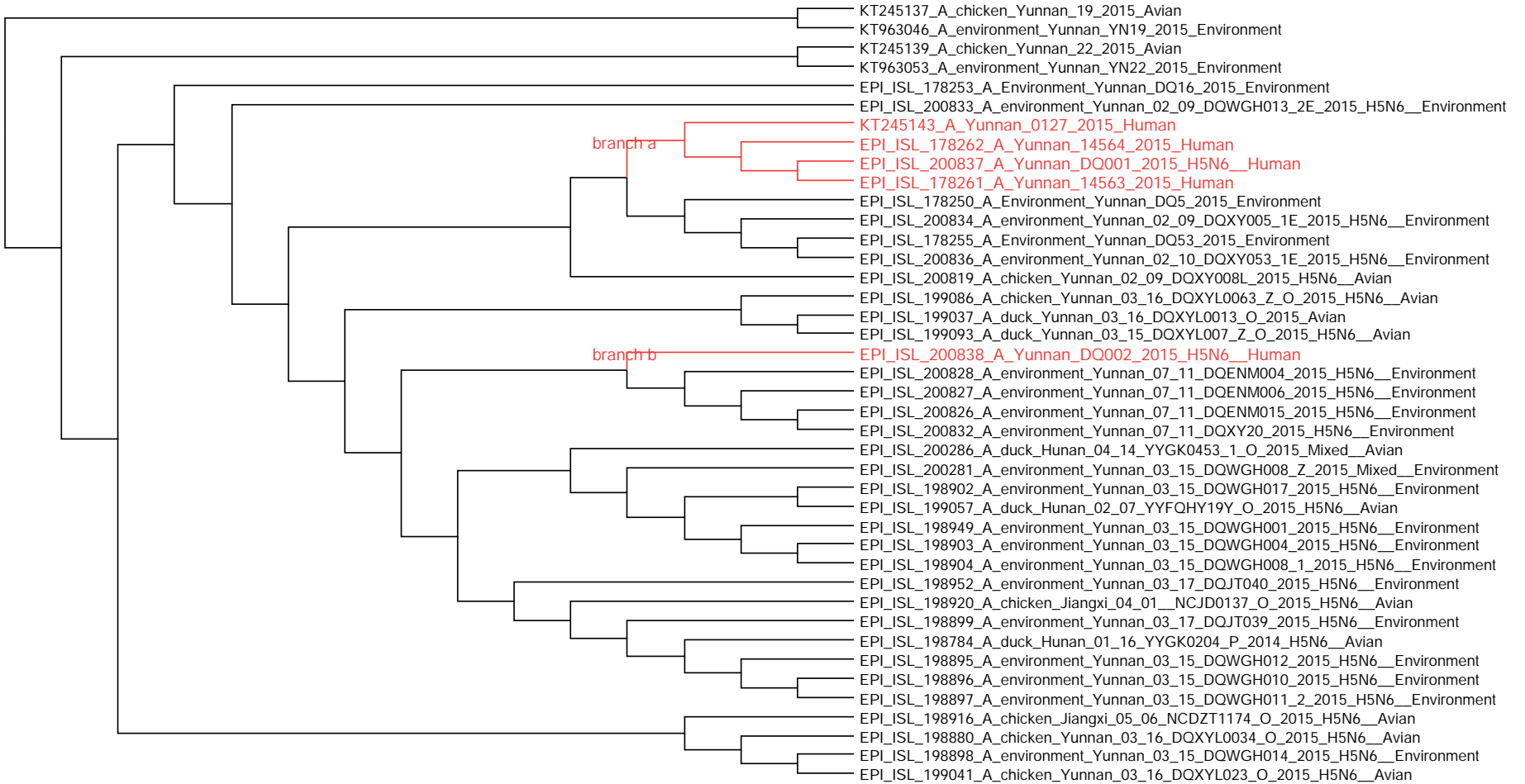
HA-Group78



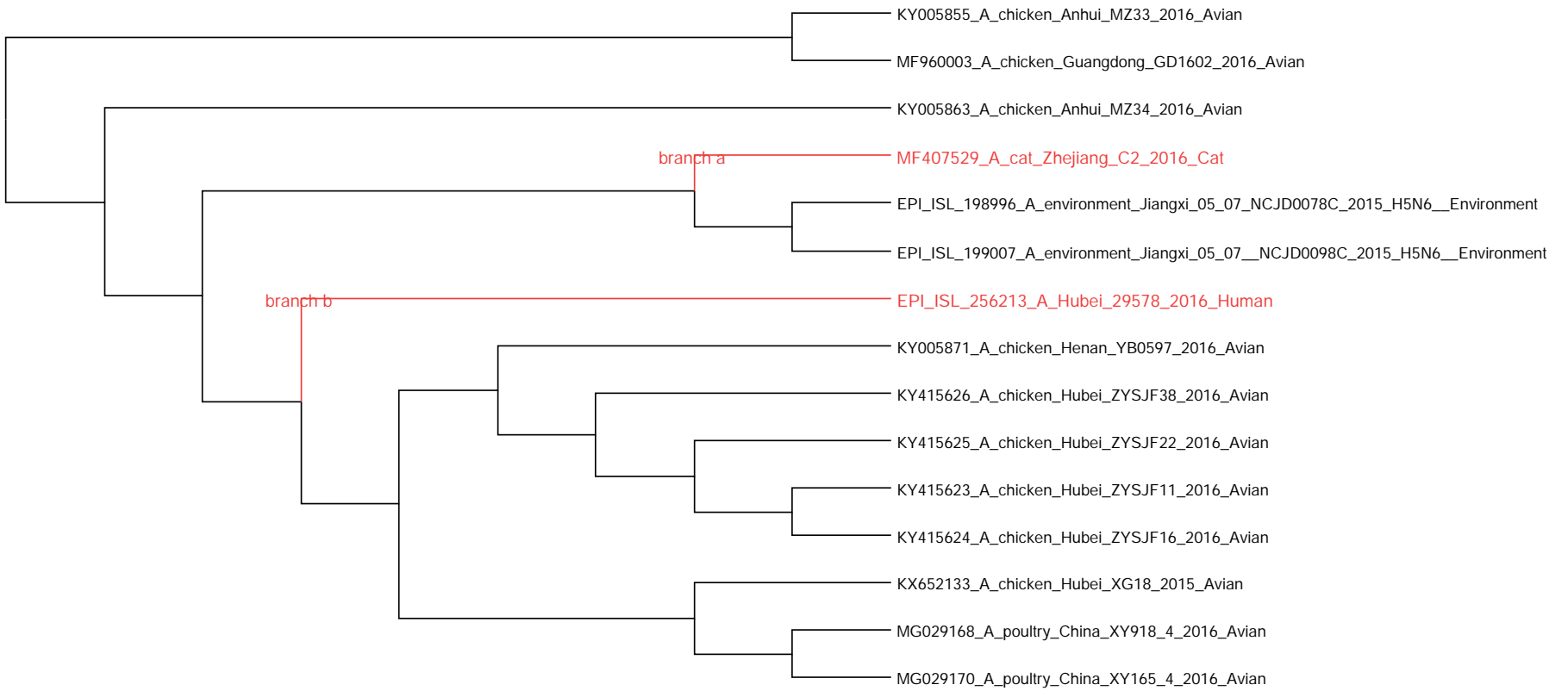
HA-Group79



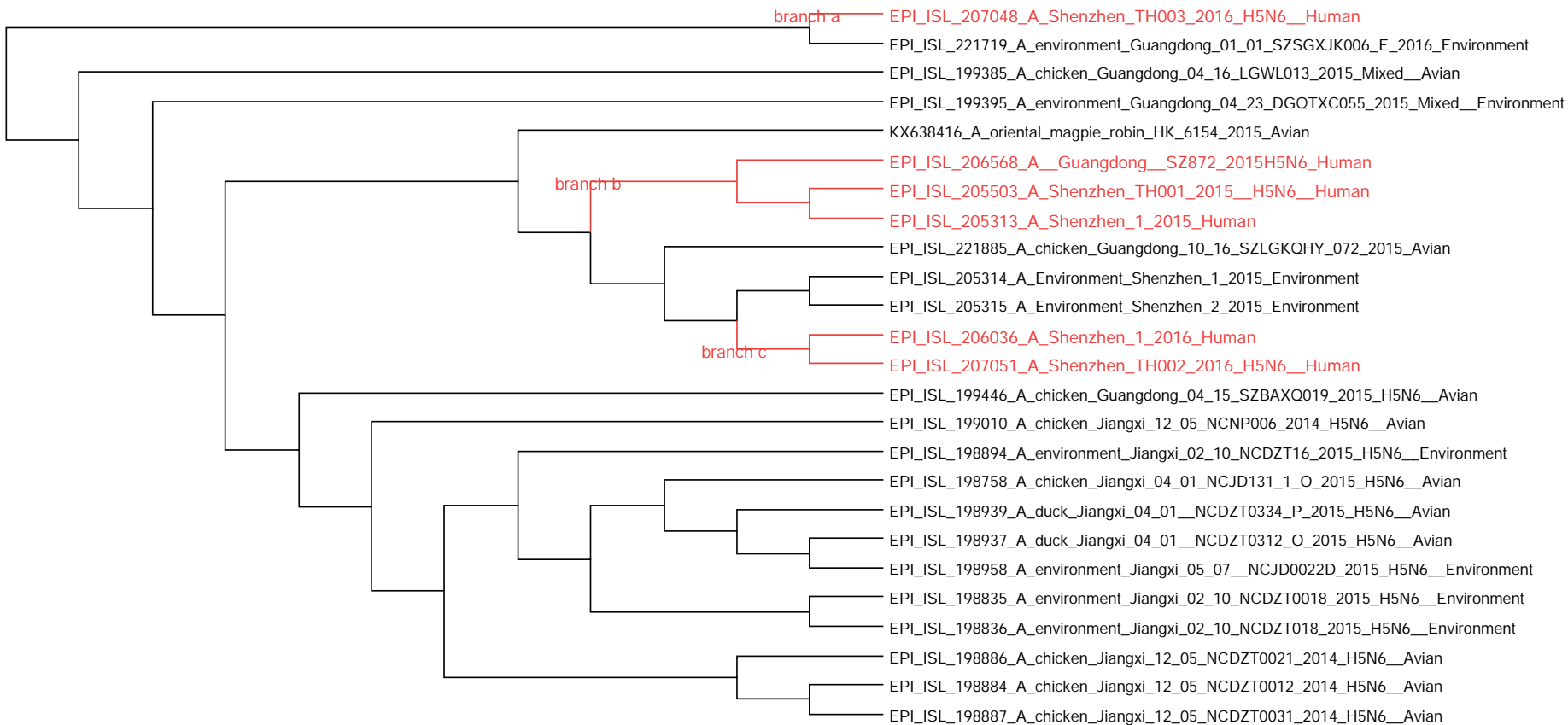
HA-Group80



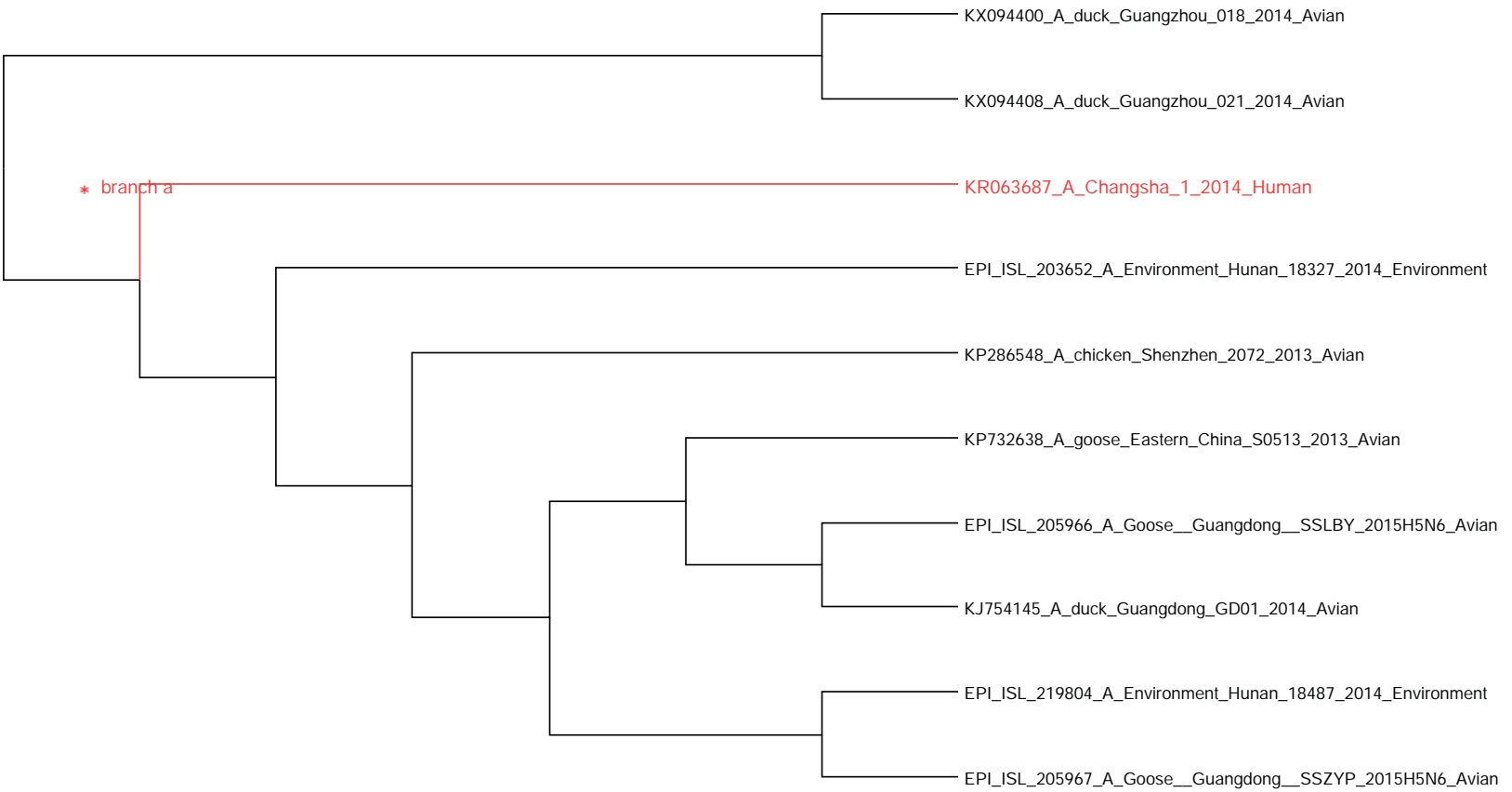
HA-Group81



HA-Group82



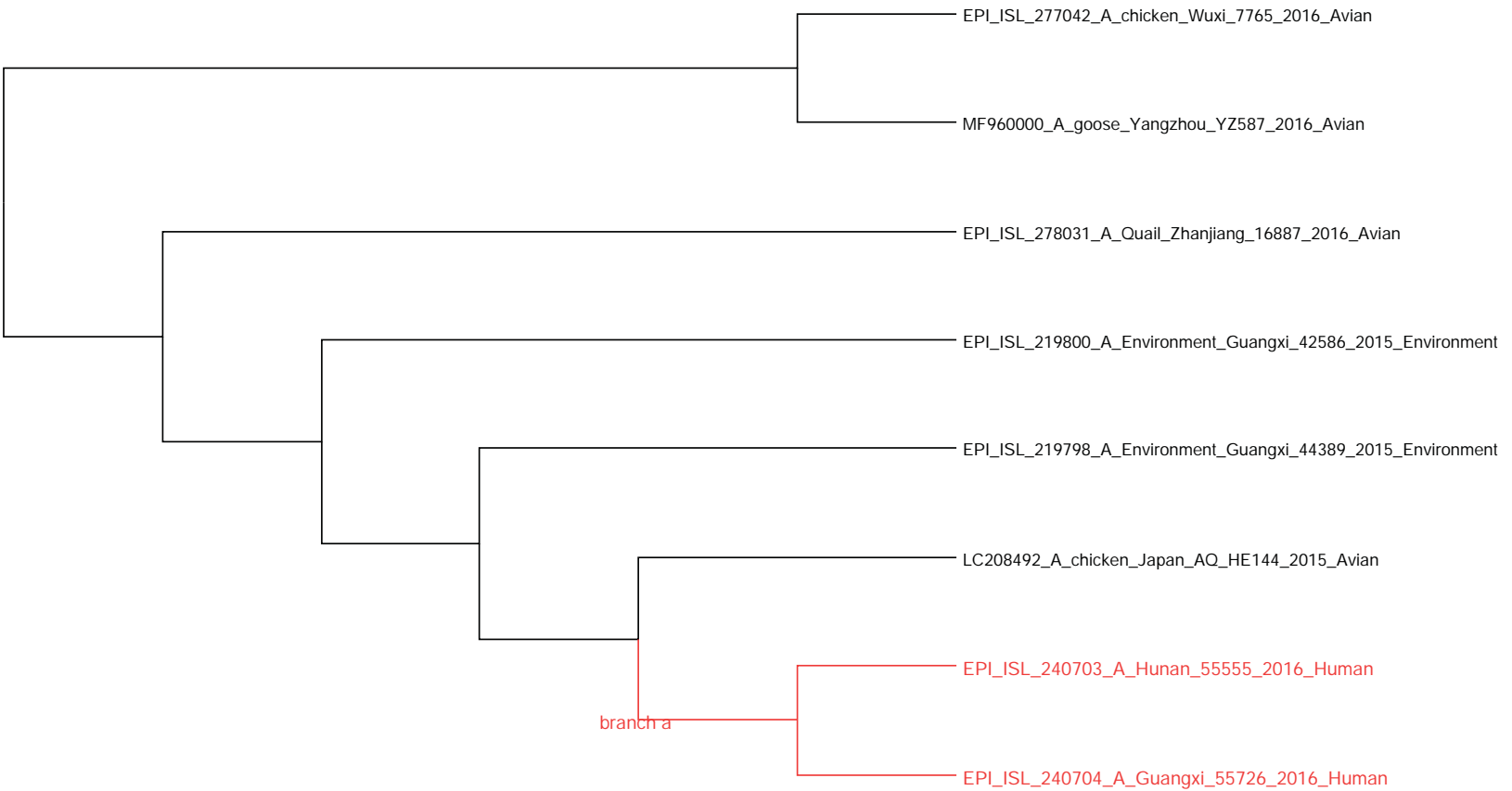
HA-Group83



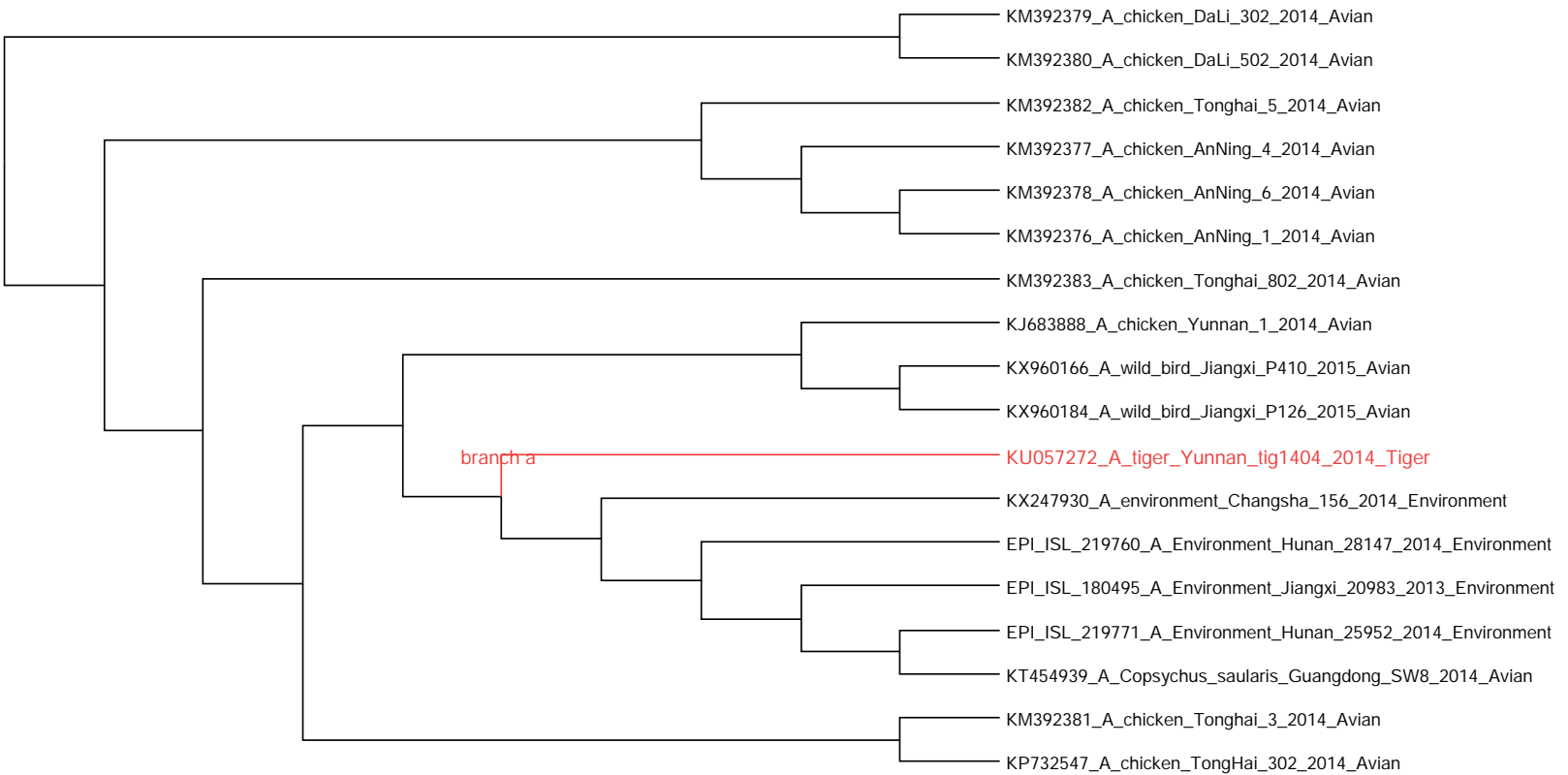
HA-Group84



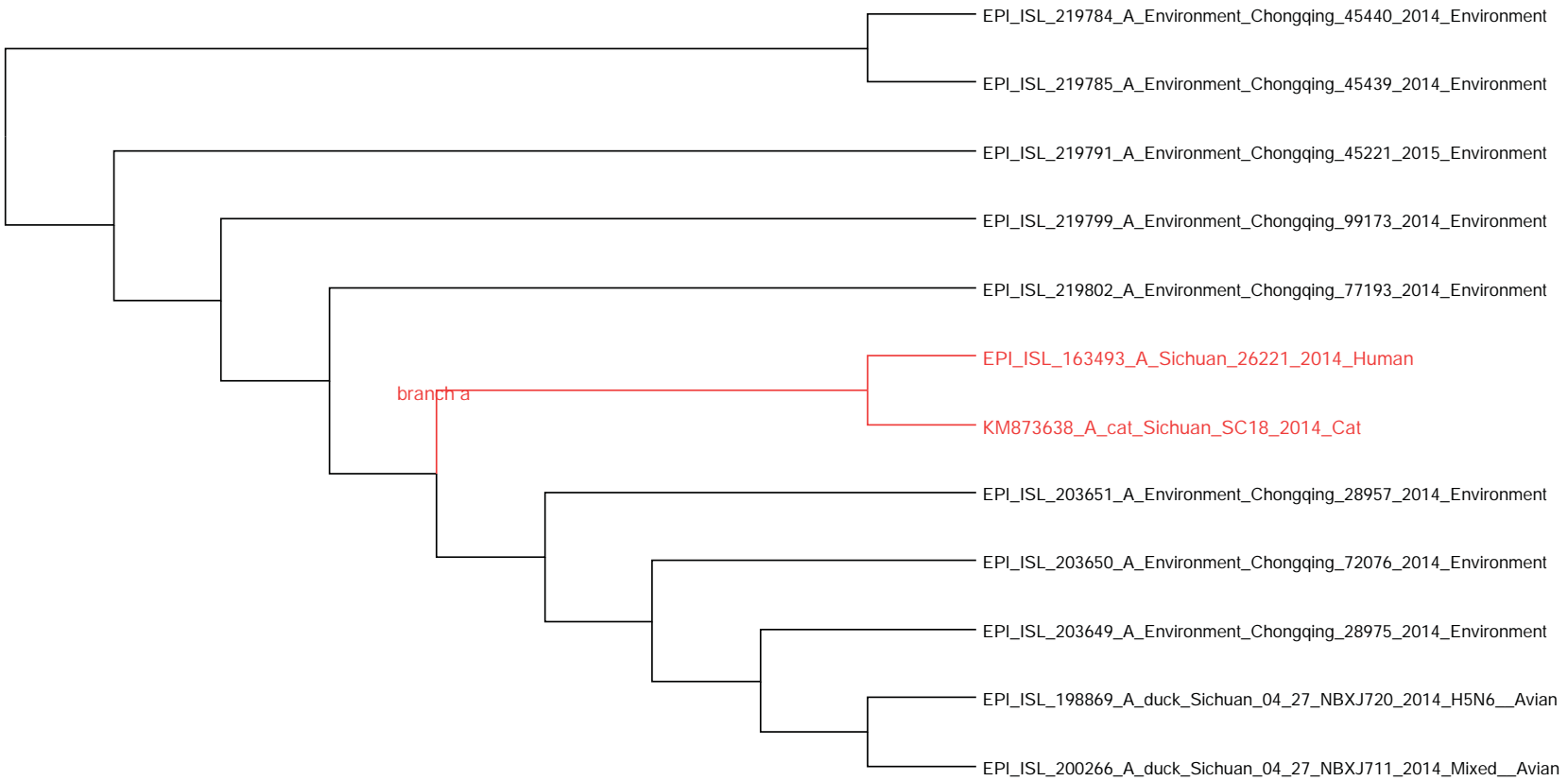
HA-Group85



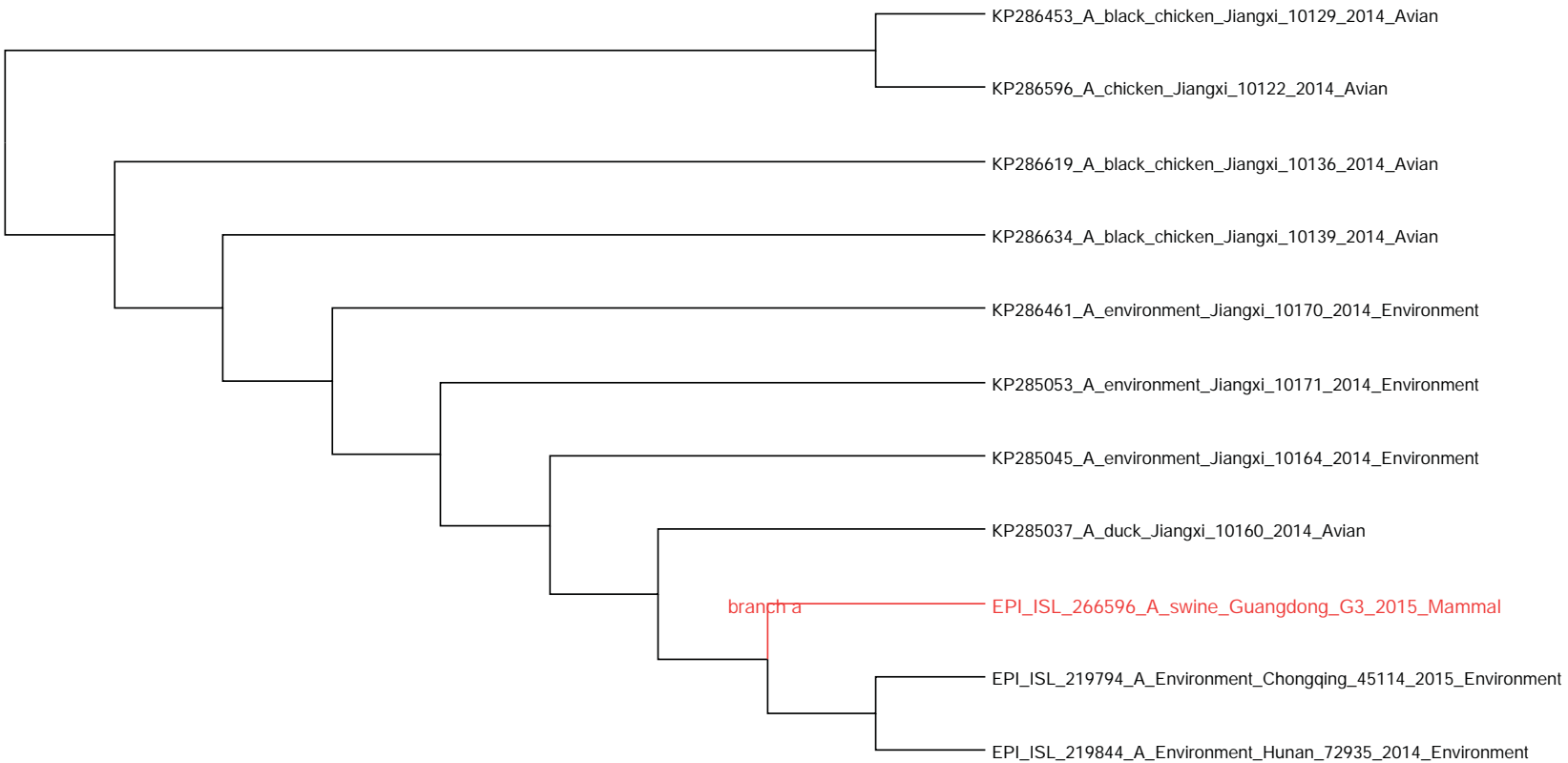
HA-Group86



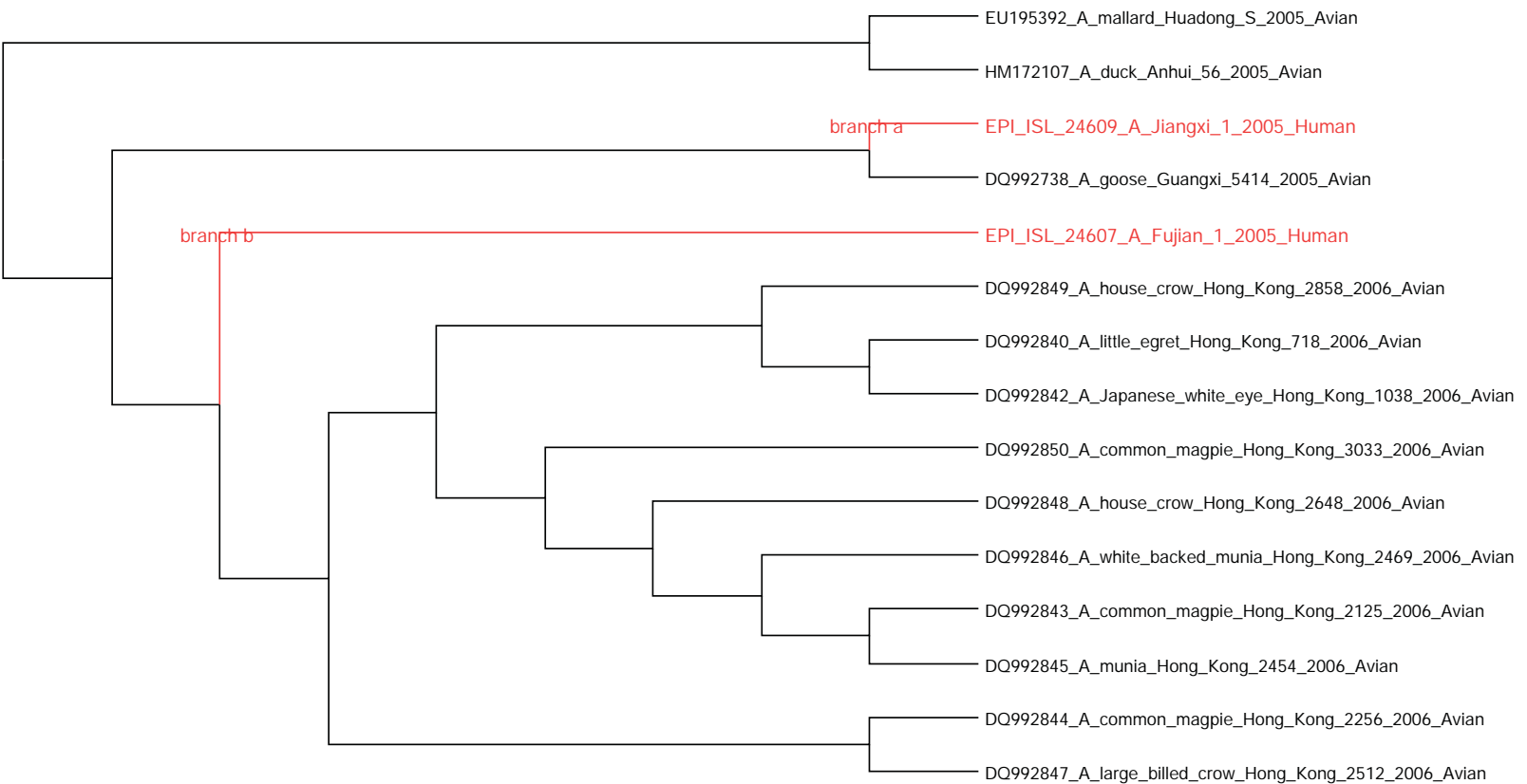
HA-Group87



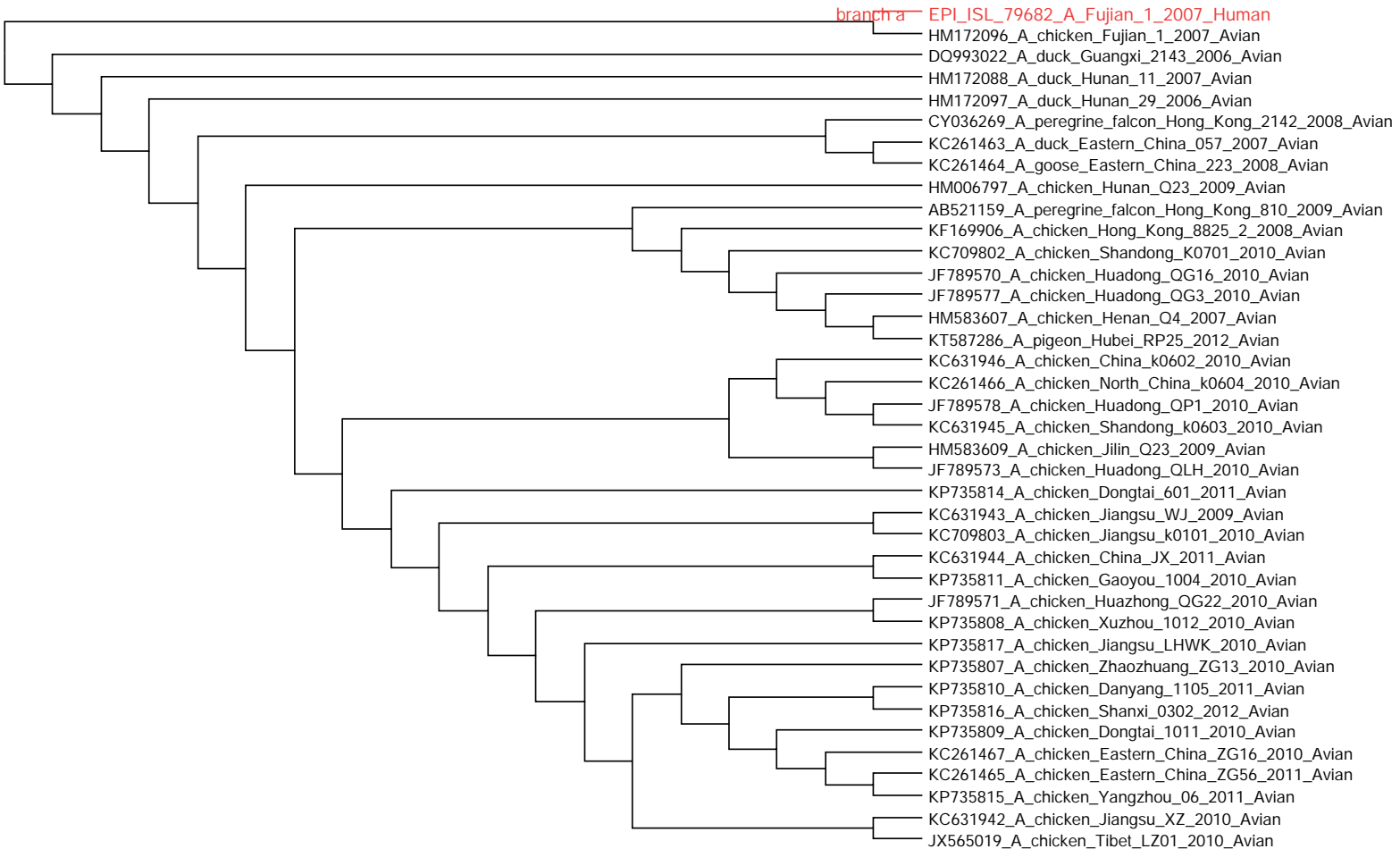
HA-Group88



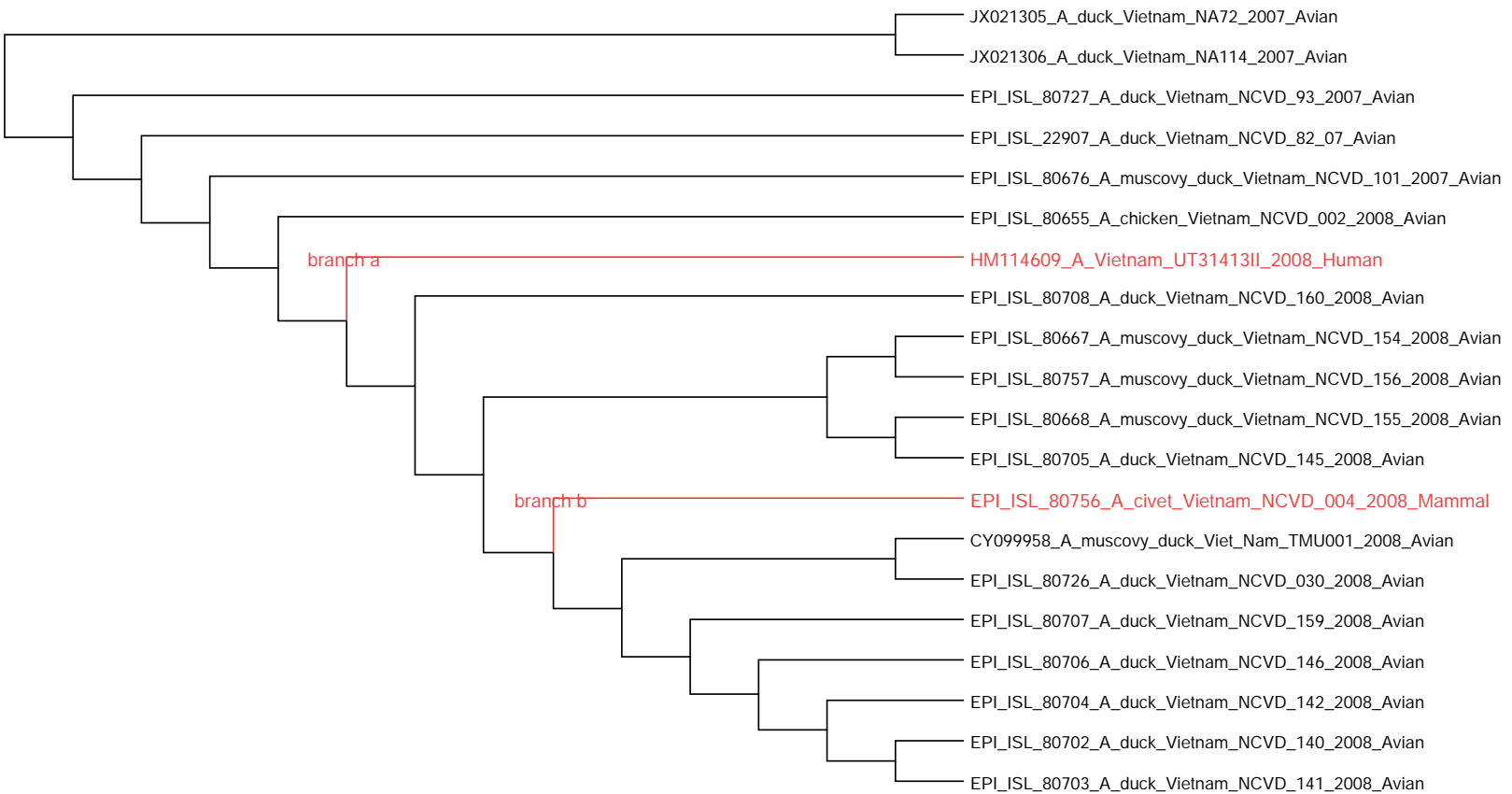
HA-Group89



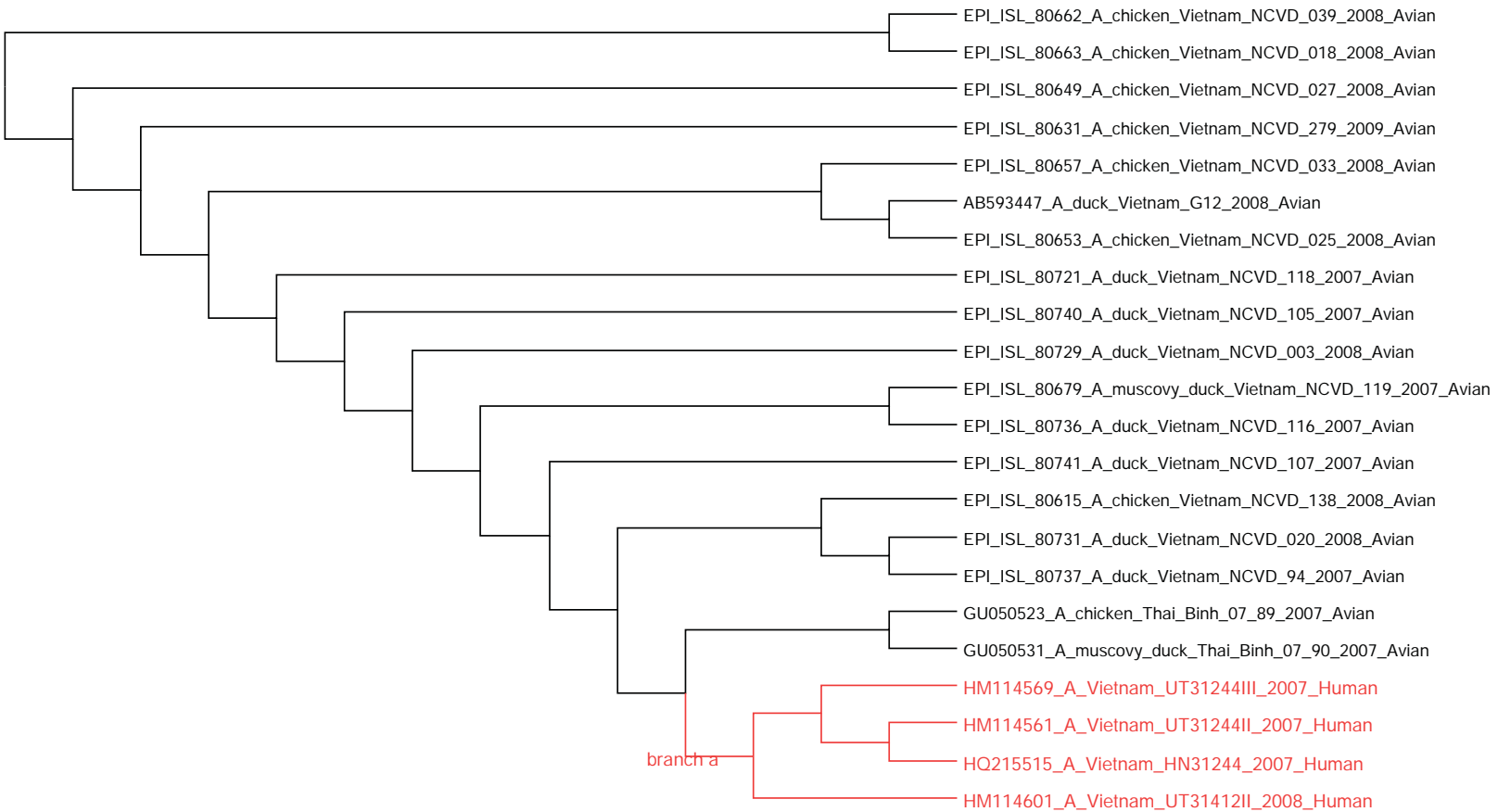
HA-Group90



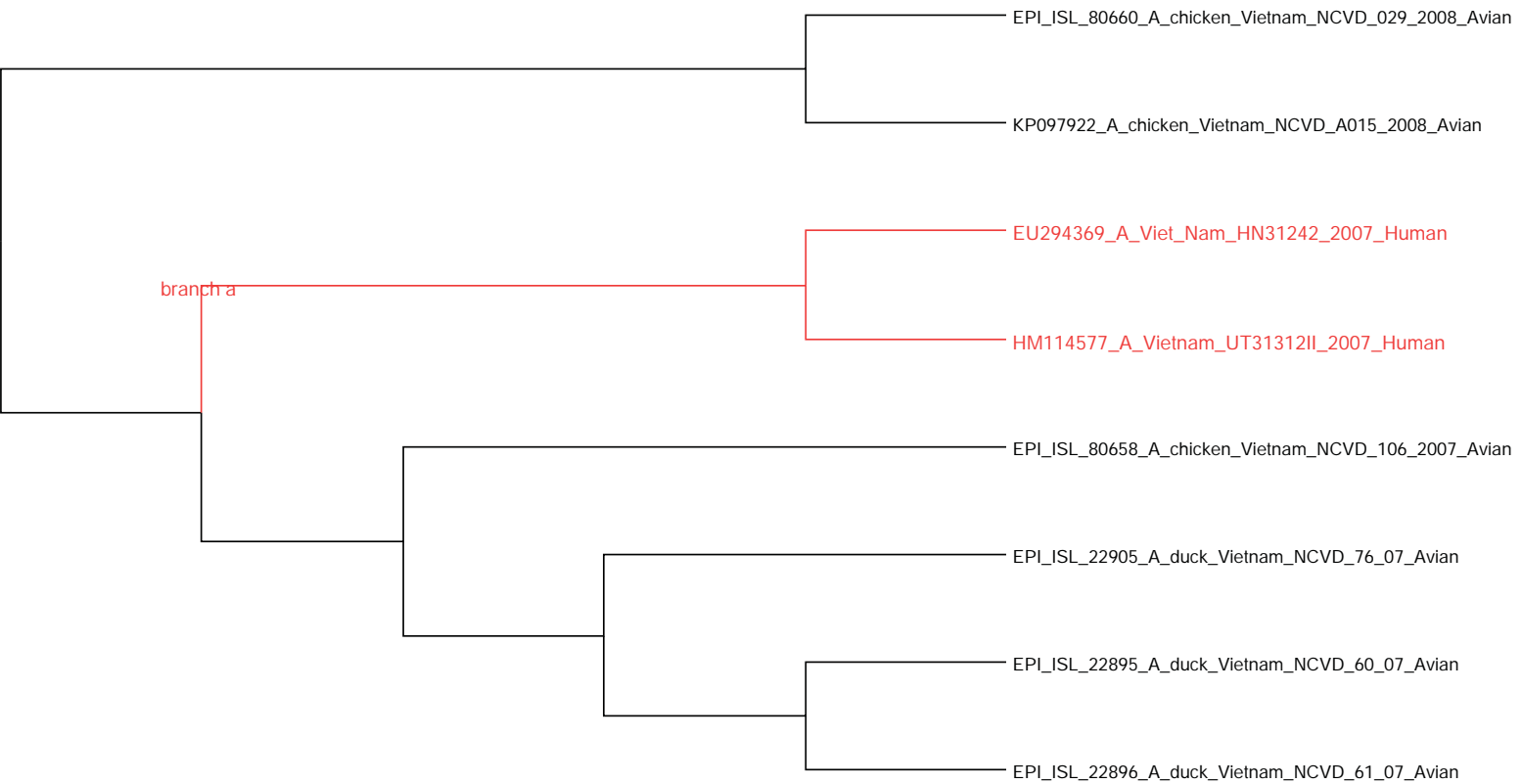
HA-Group91



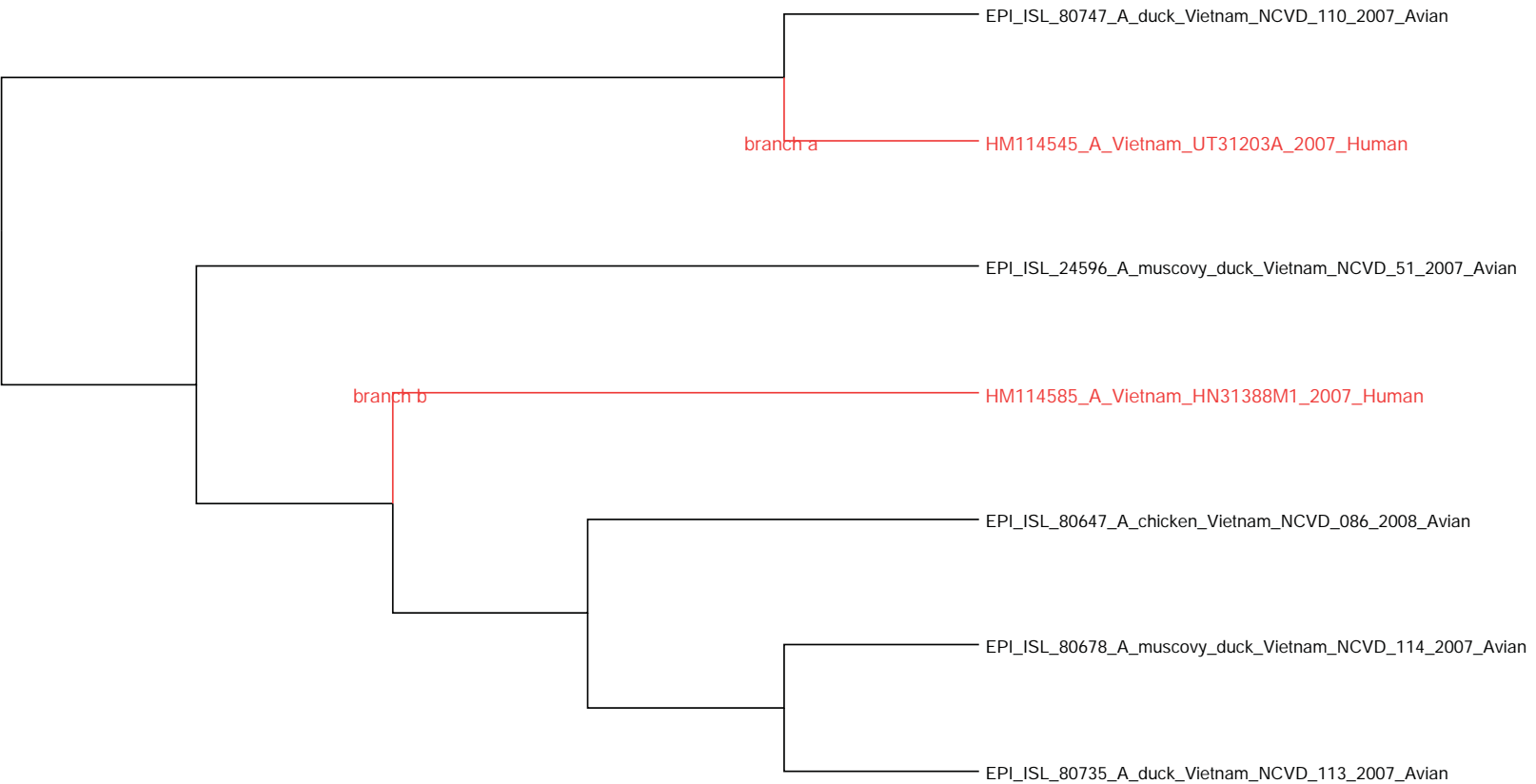
HA-Group92



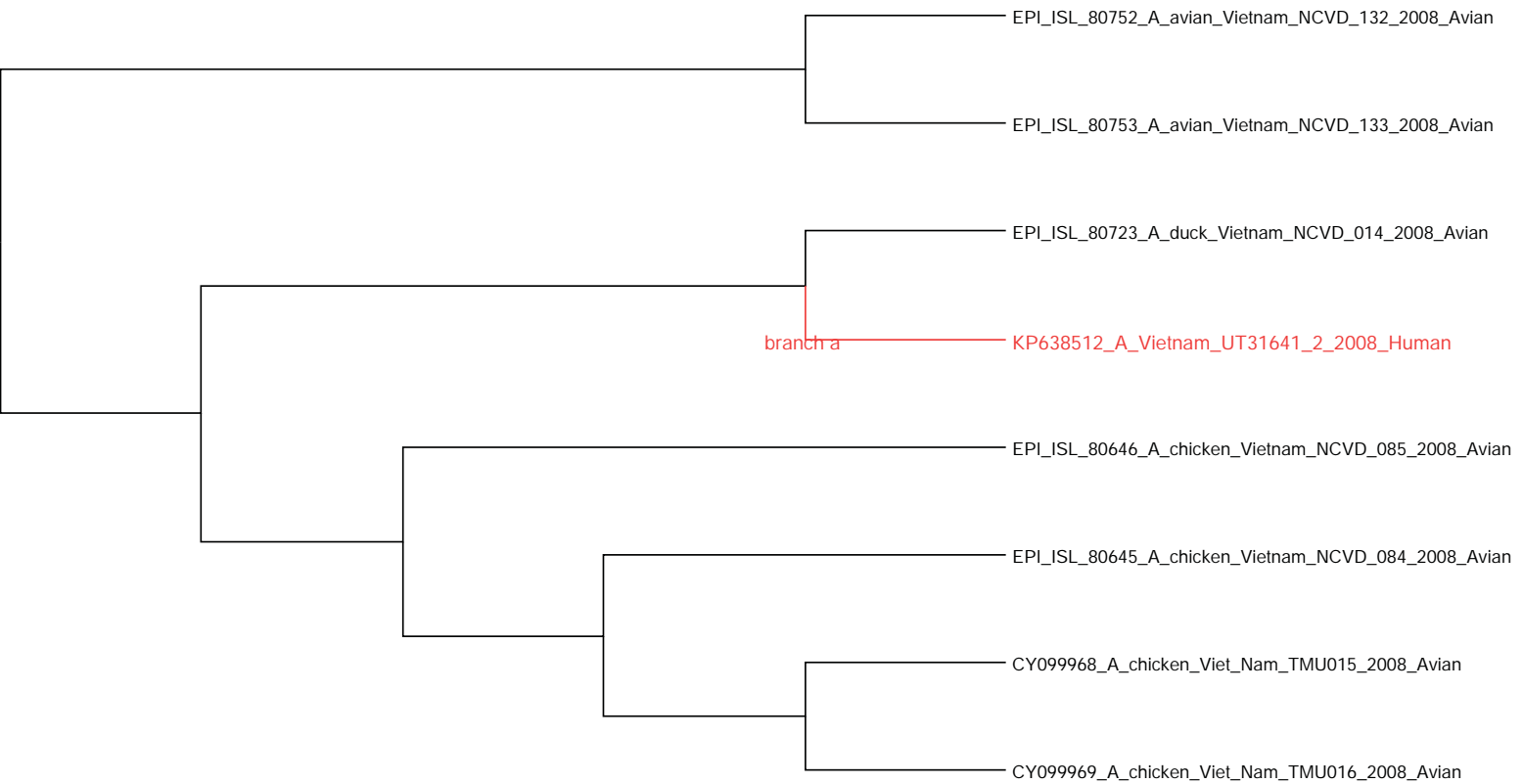
HA-Group93



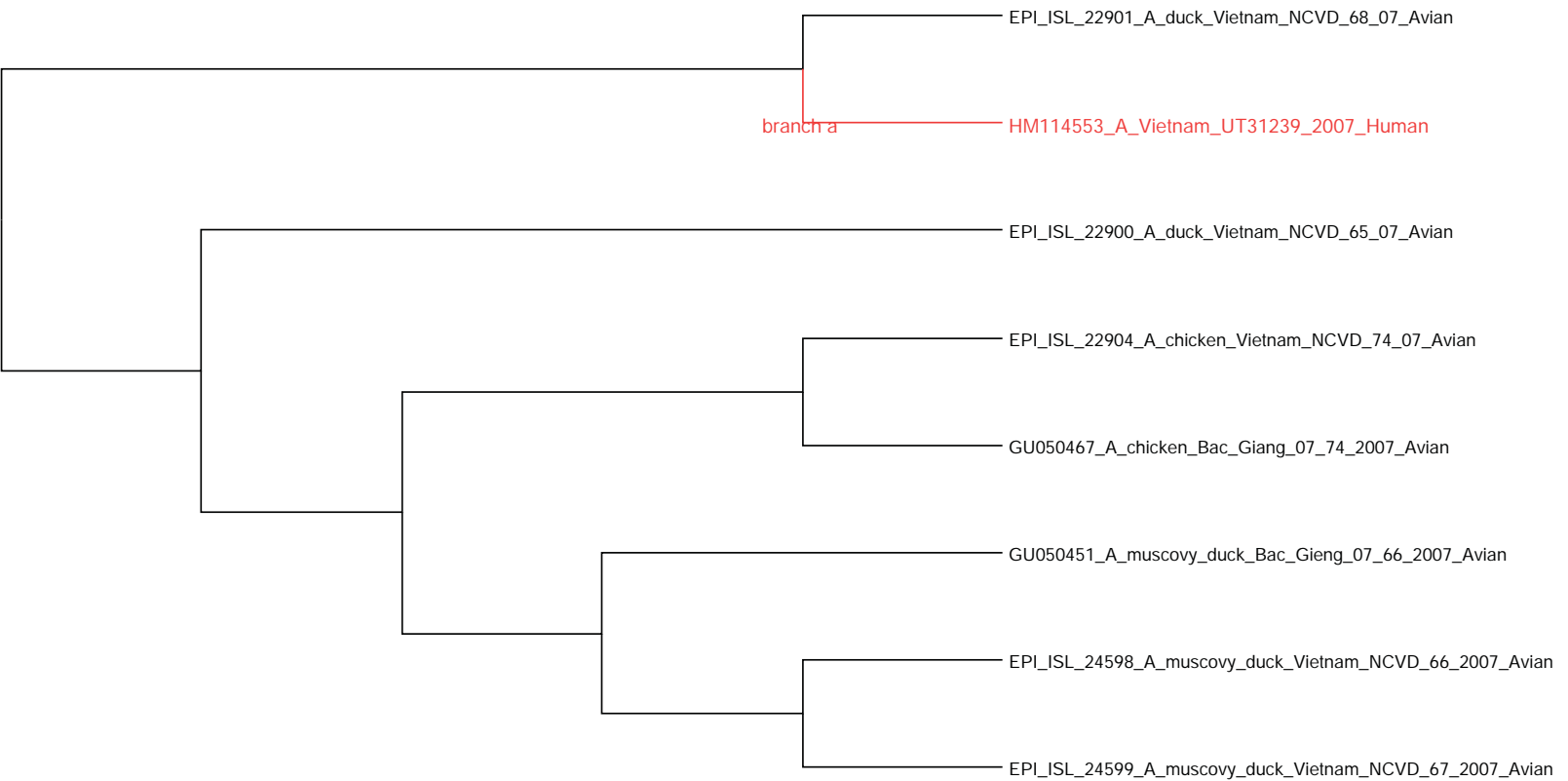
HA-Group94



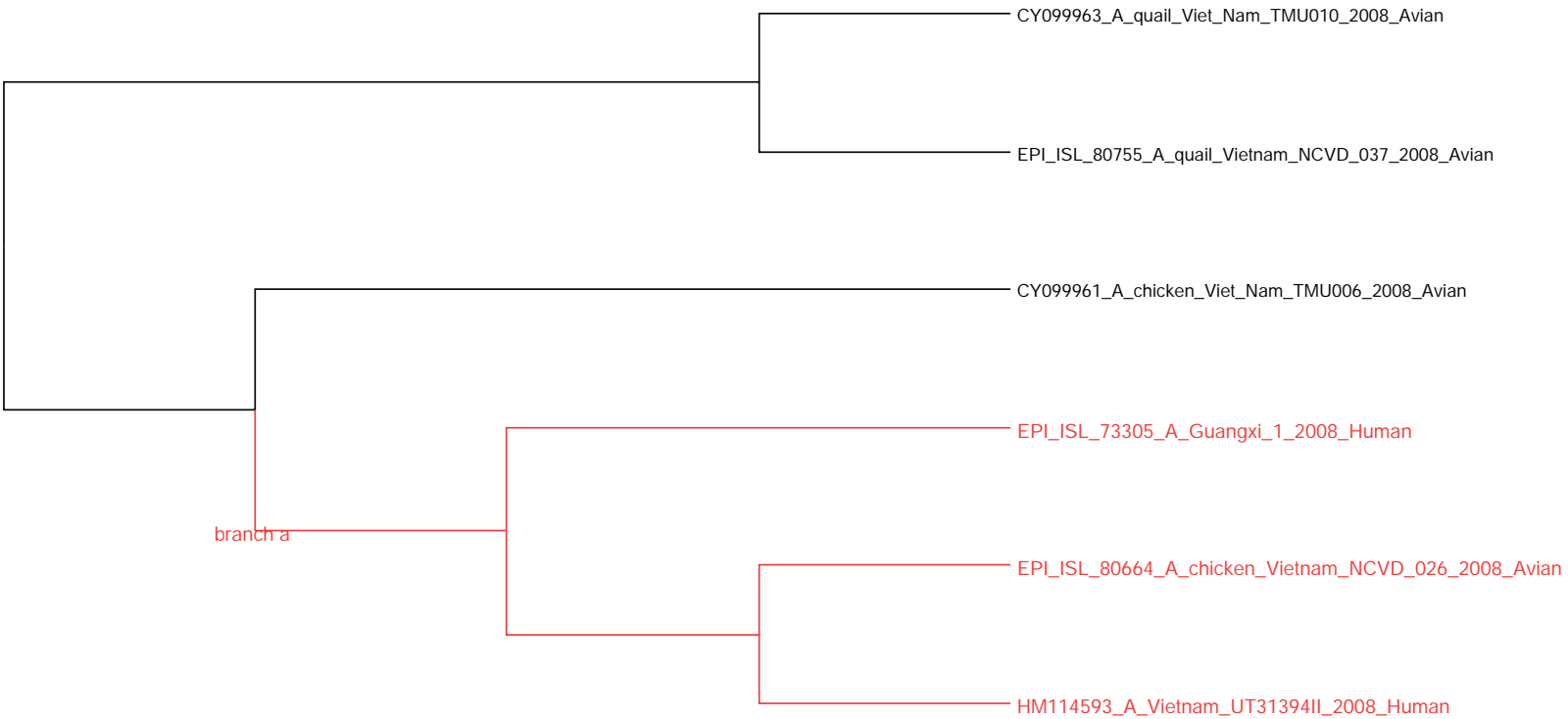
HA-Group95



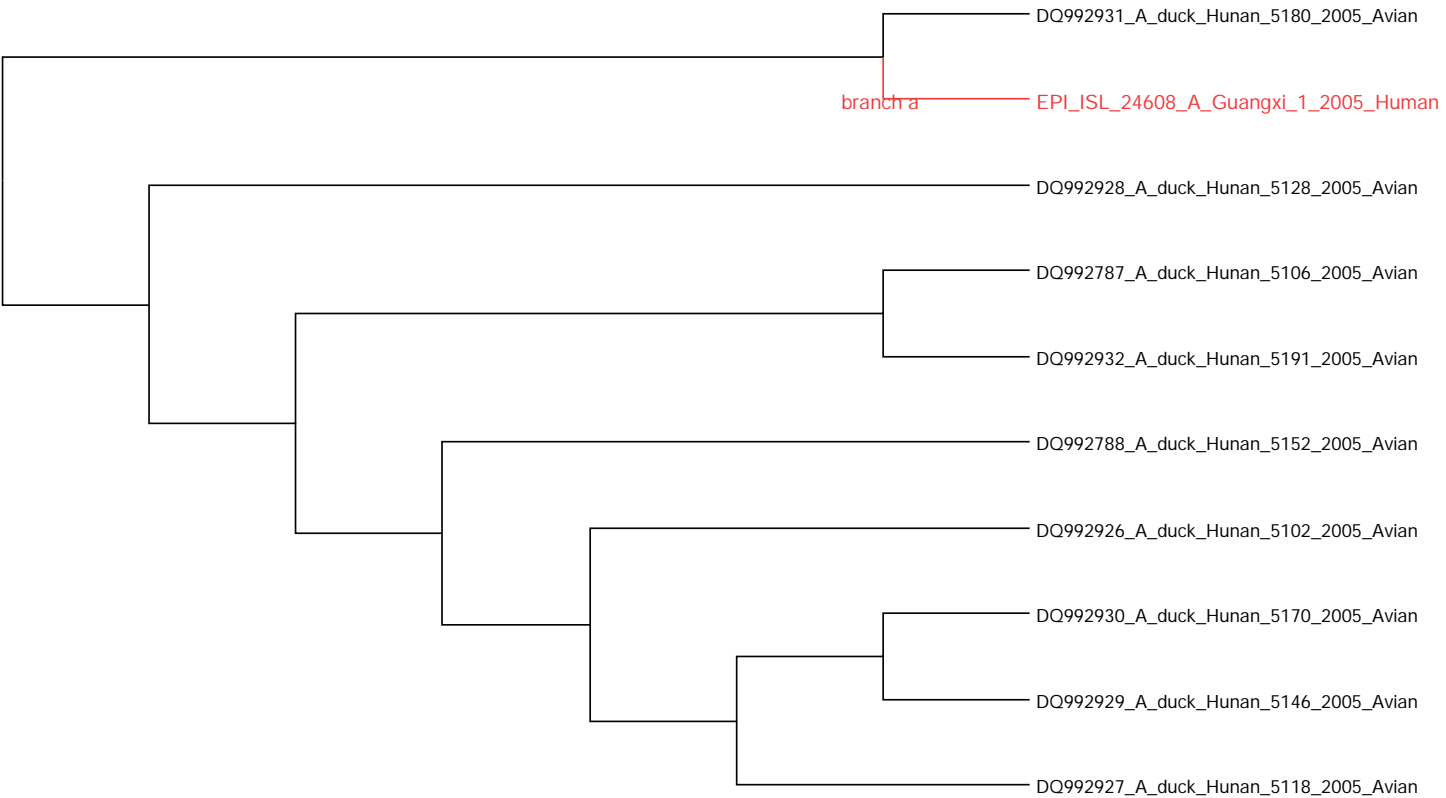
HA-Group96



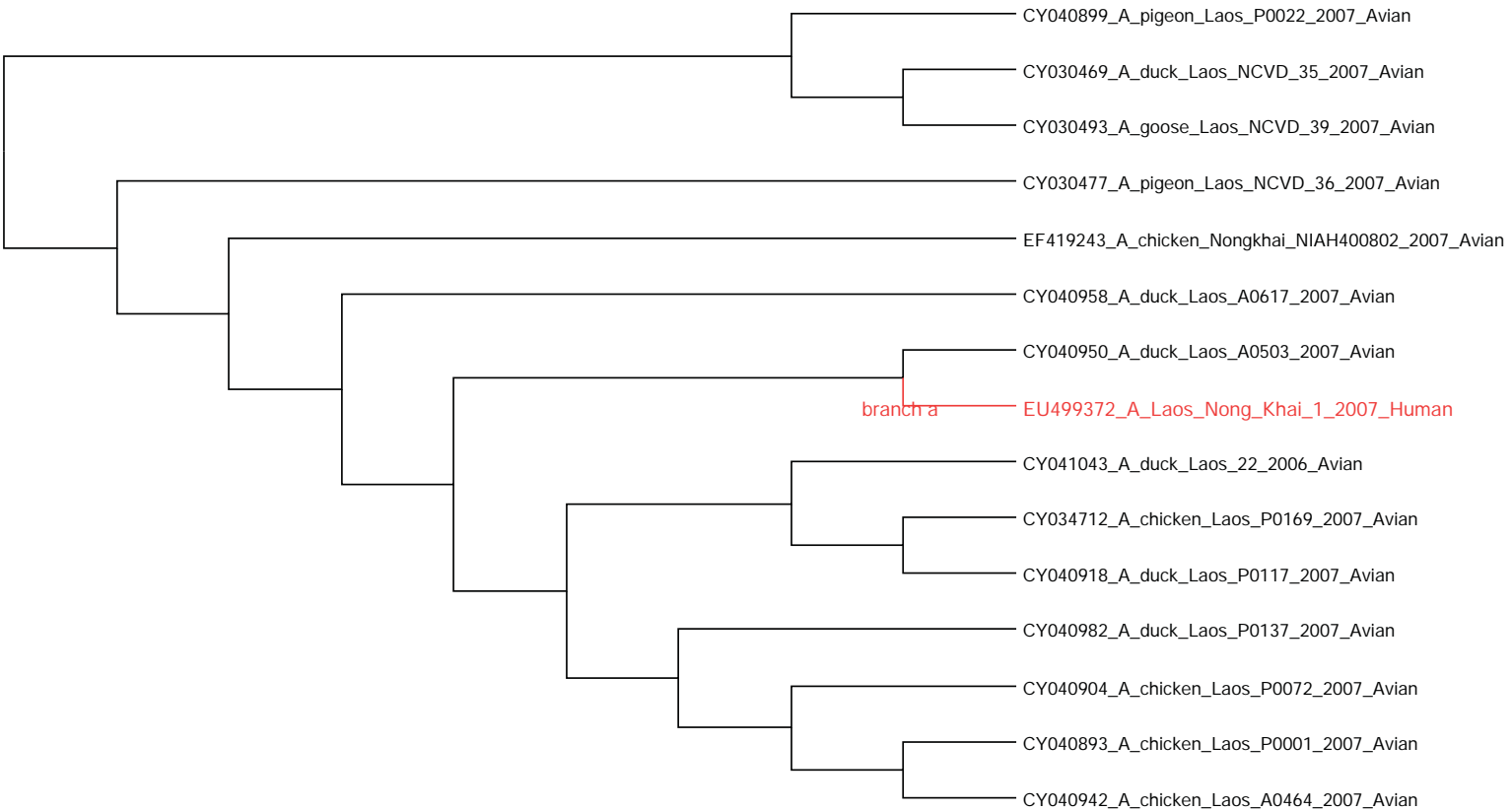
HA-Group97



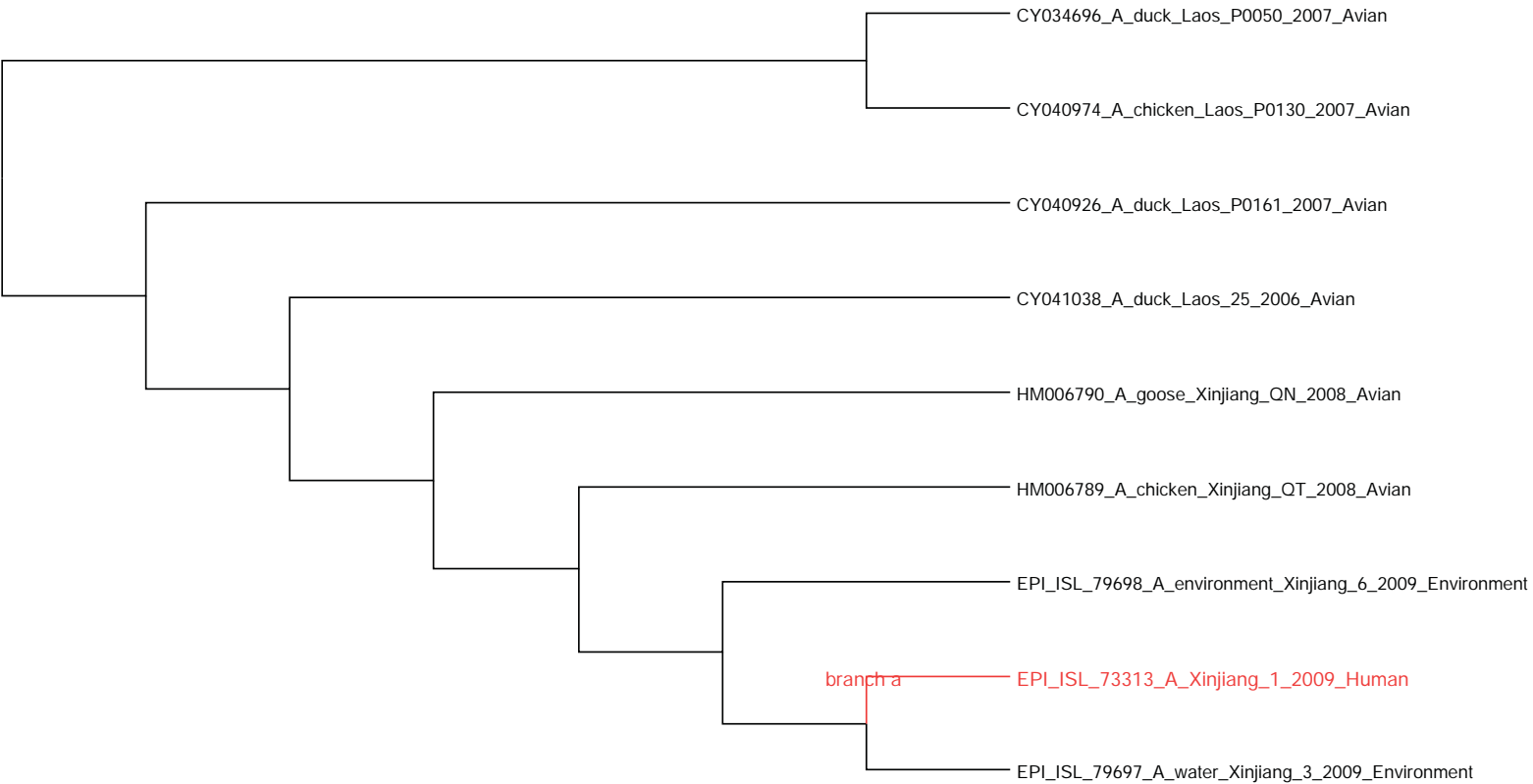
HA-Group98



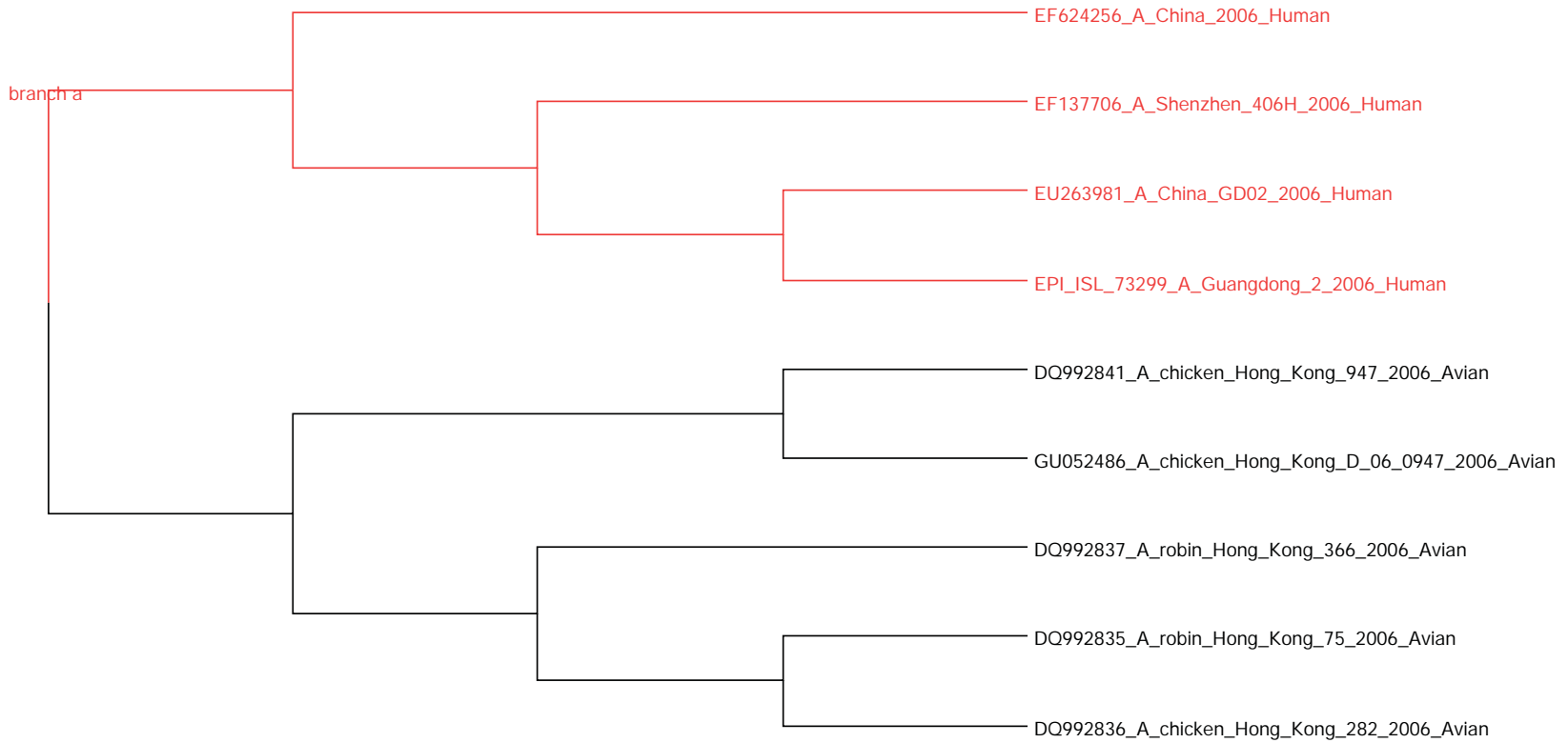
HA-Group99



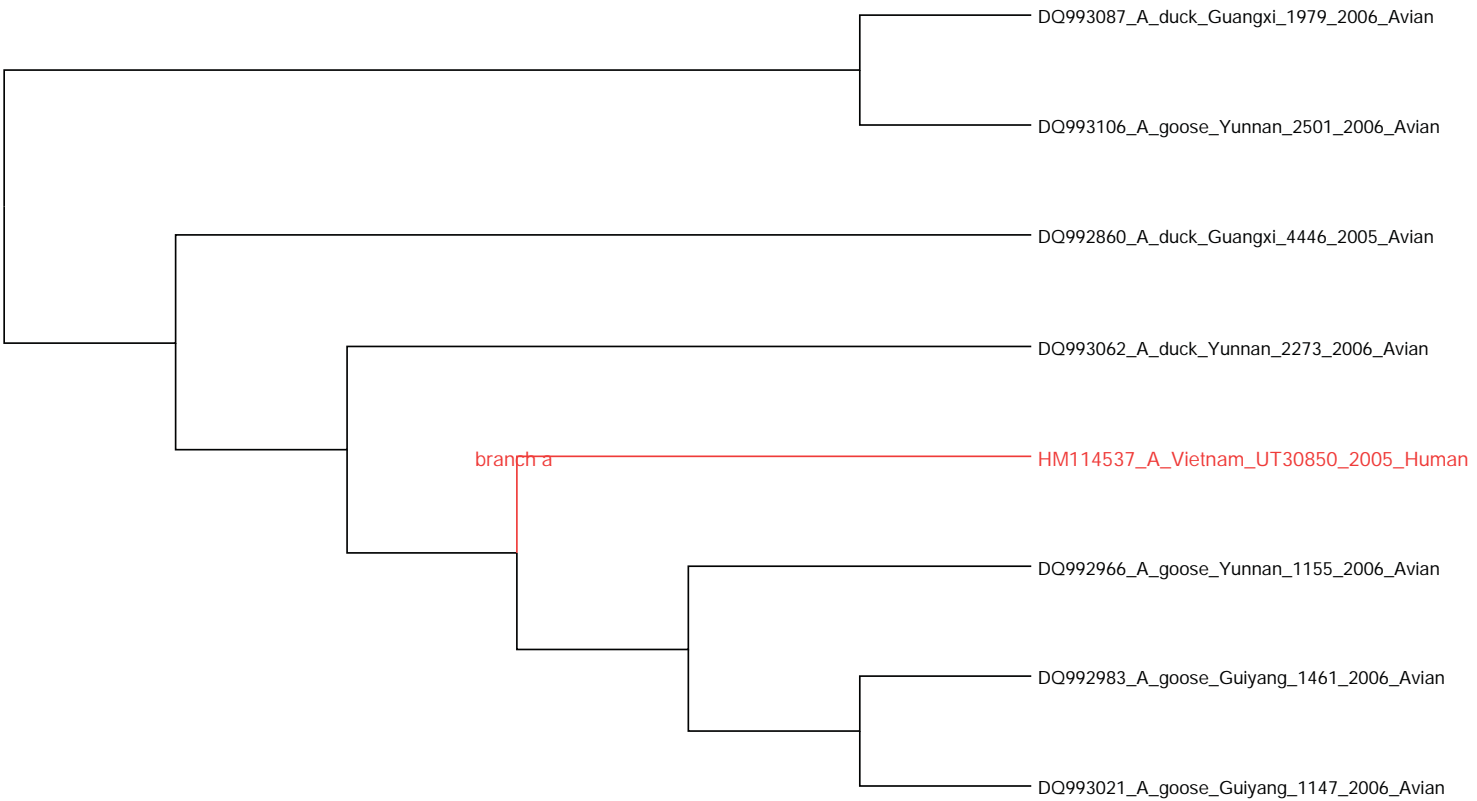
HA-Group100



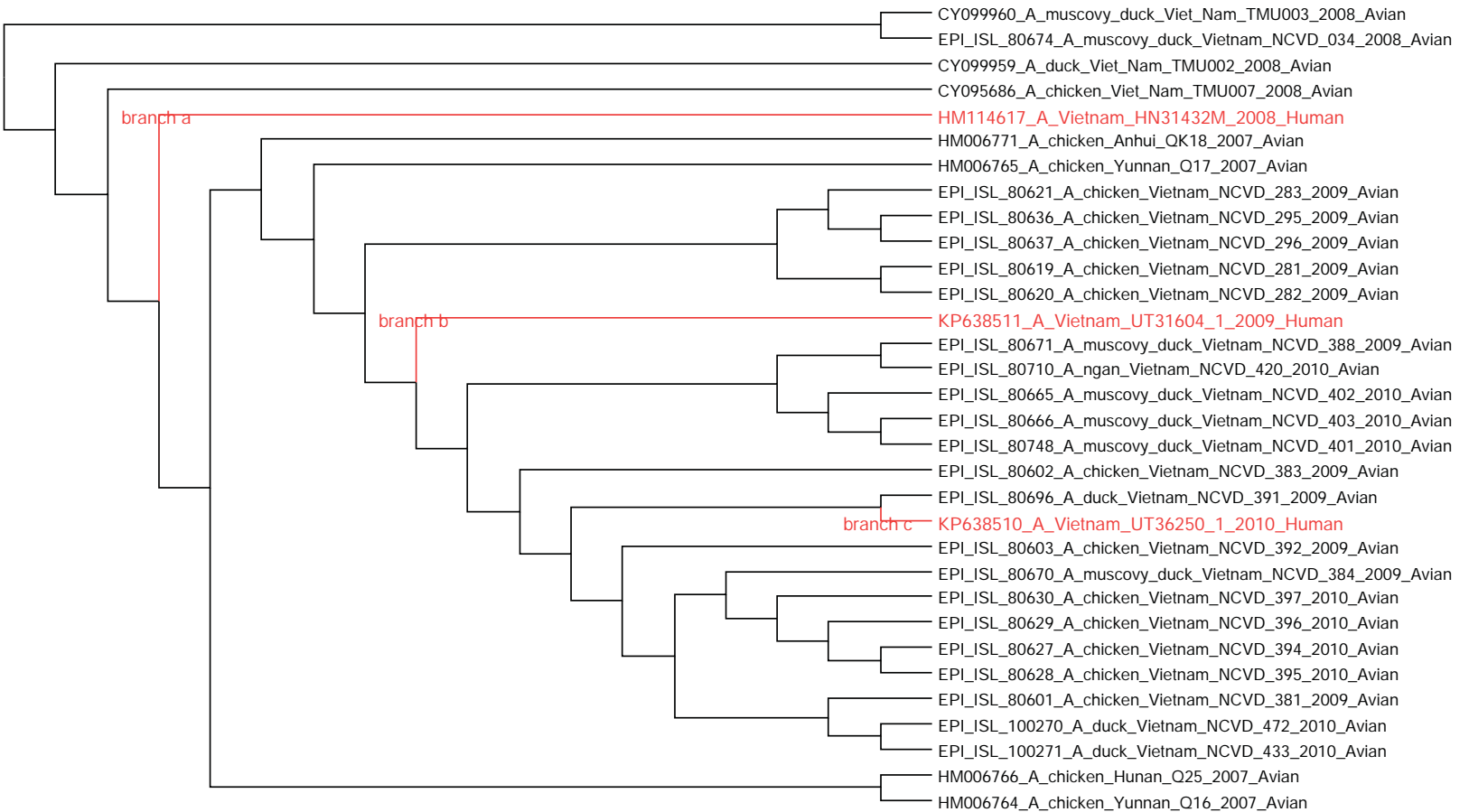
HA-Group101



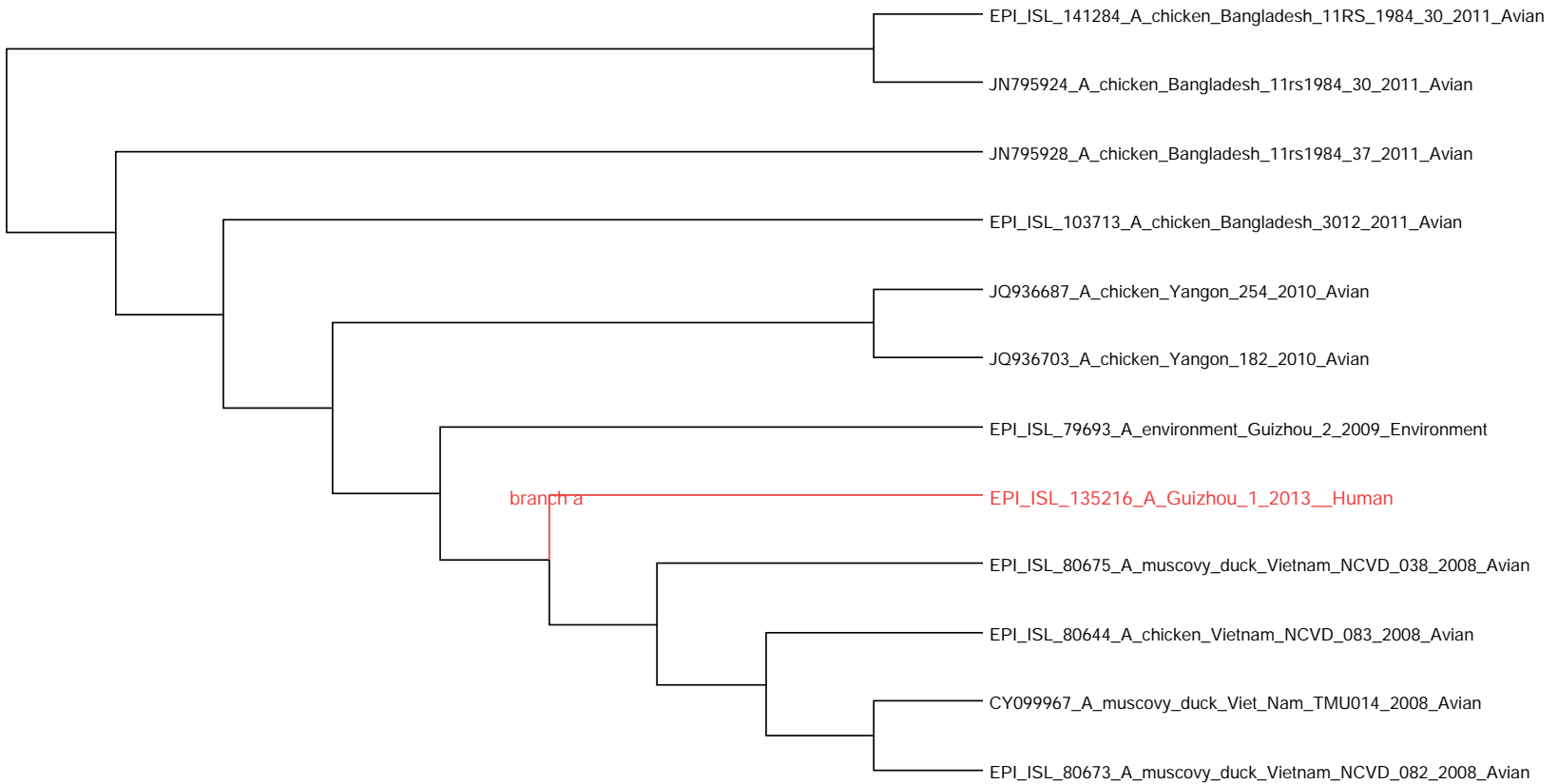
HA-Group102



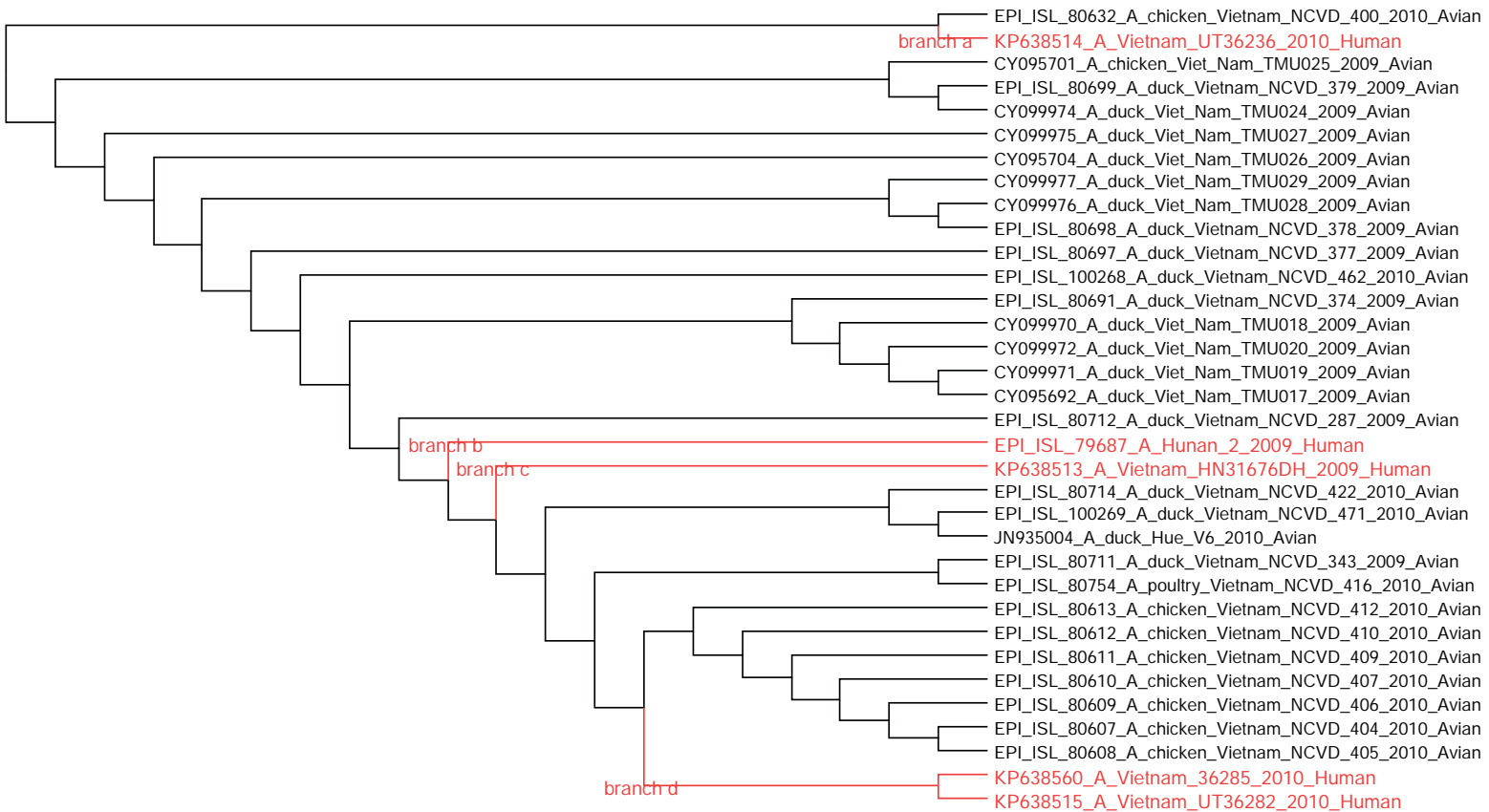
HA-Group103



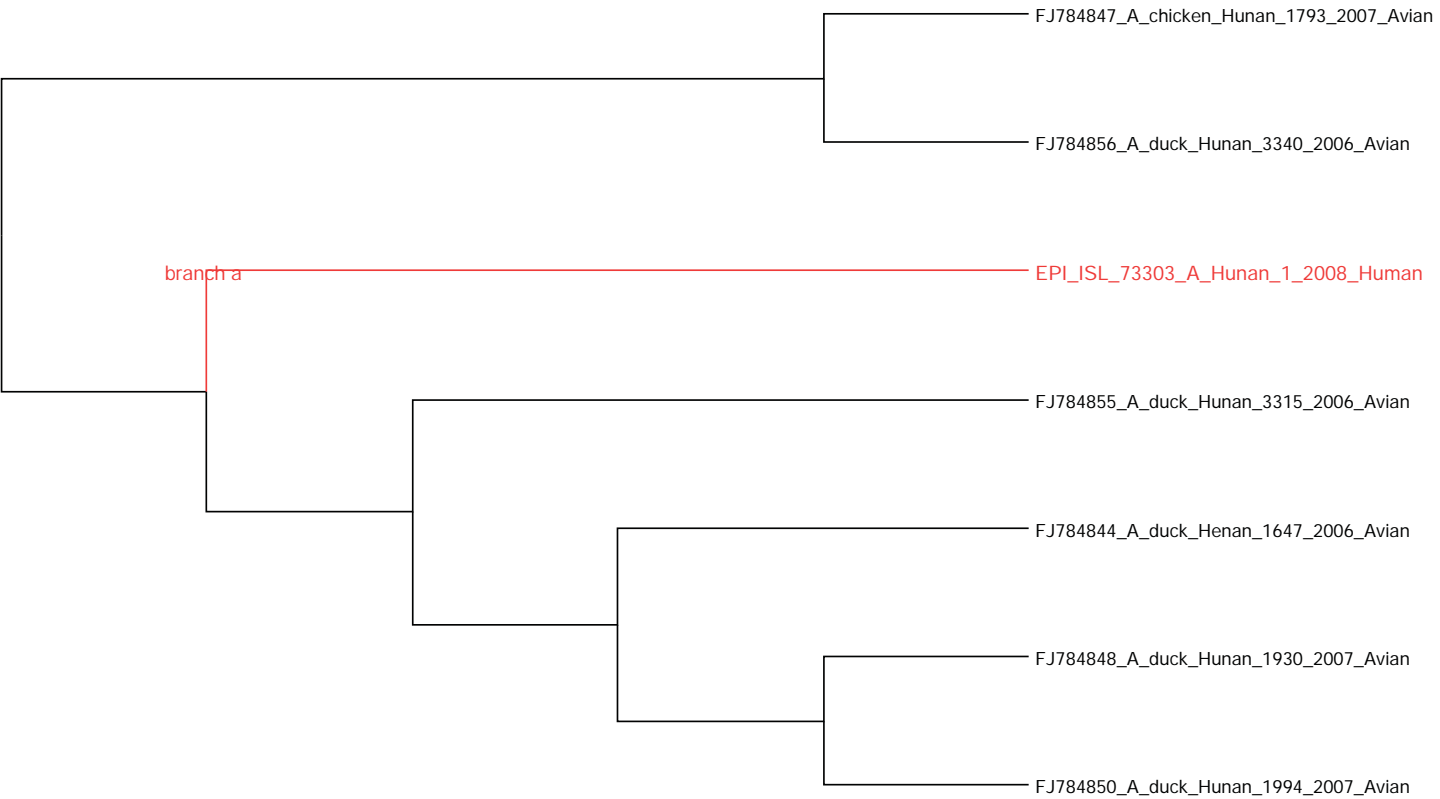
HA-Group104



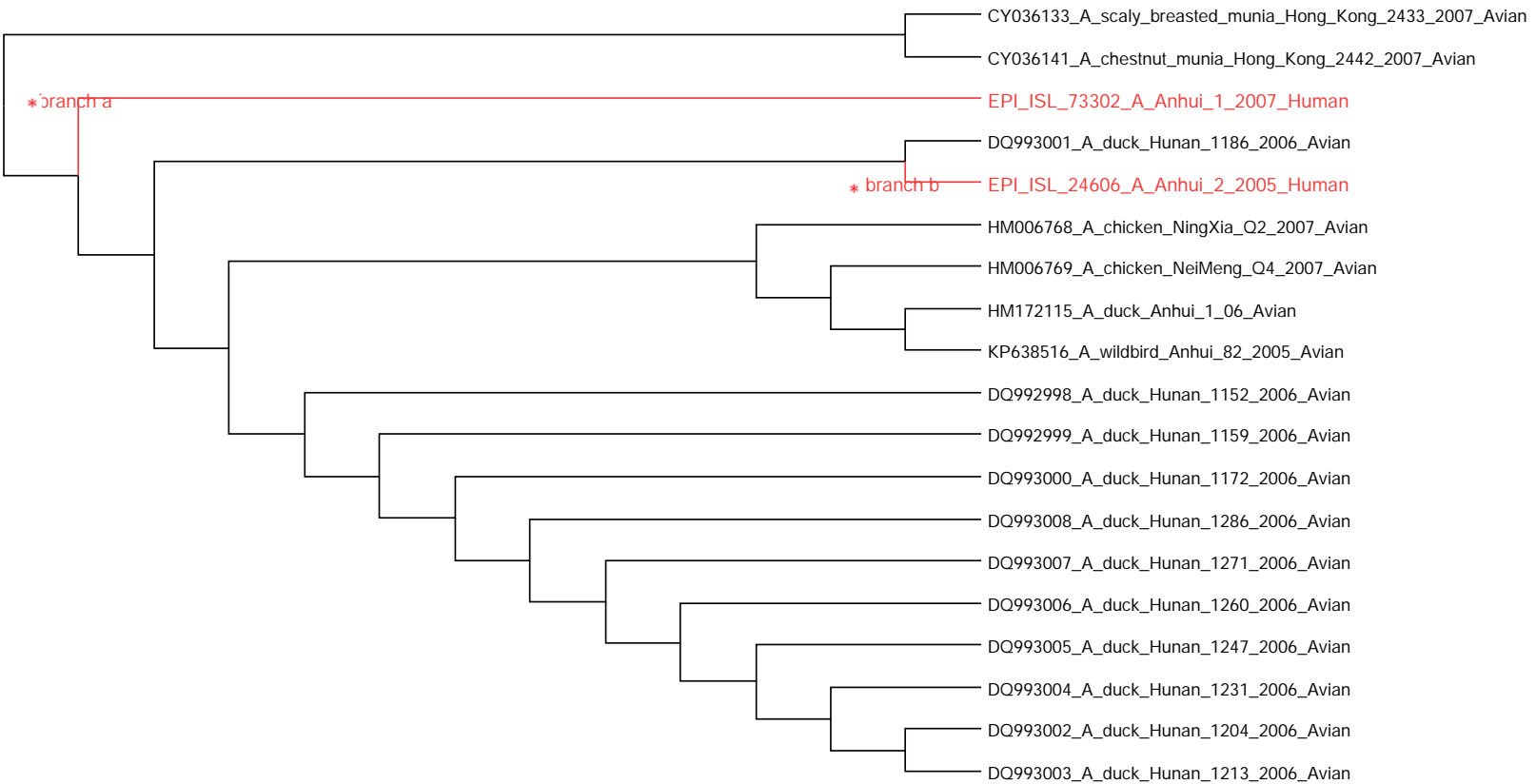
HA-Group105



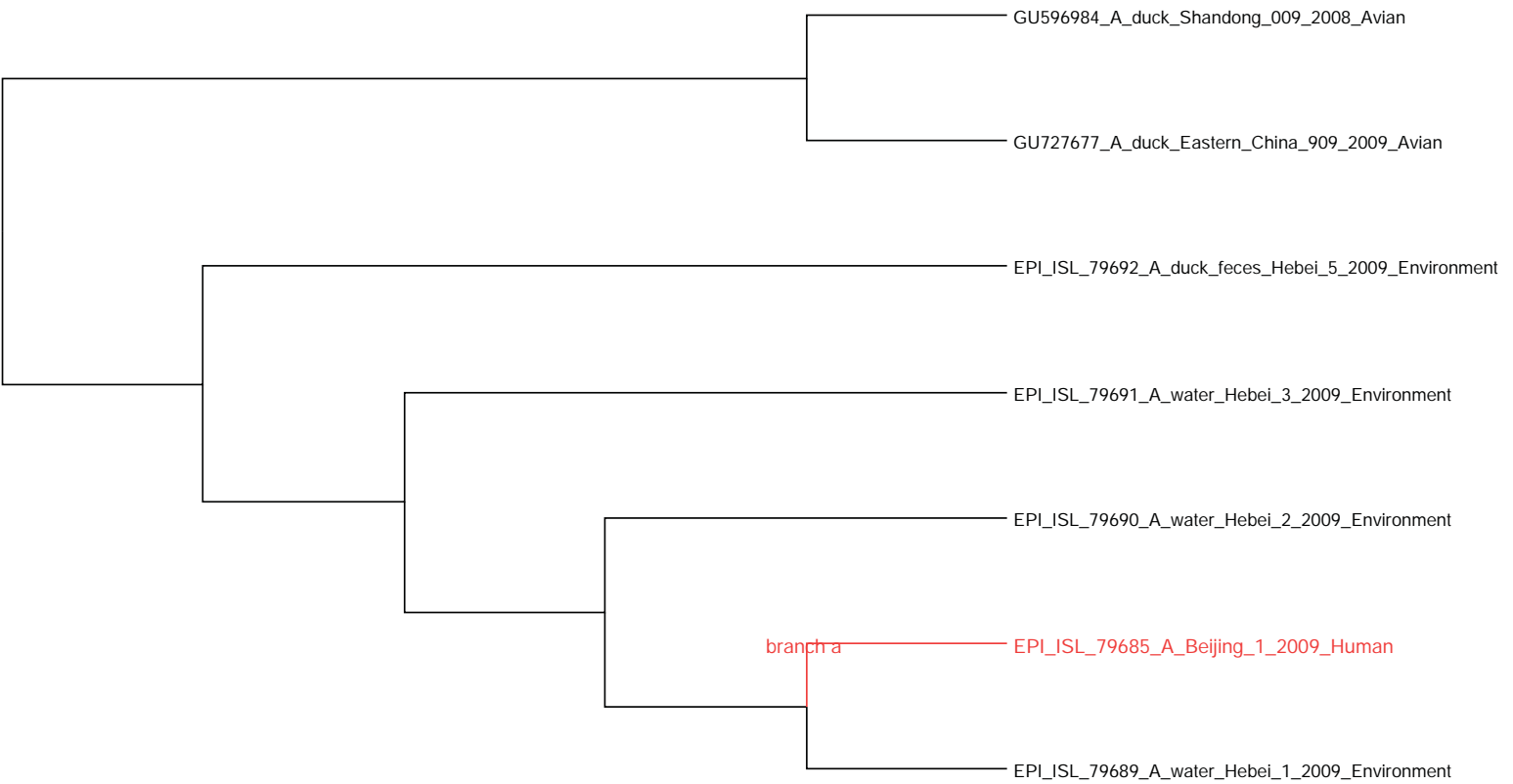
HA-Group106



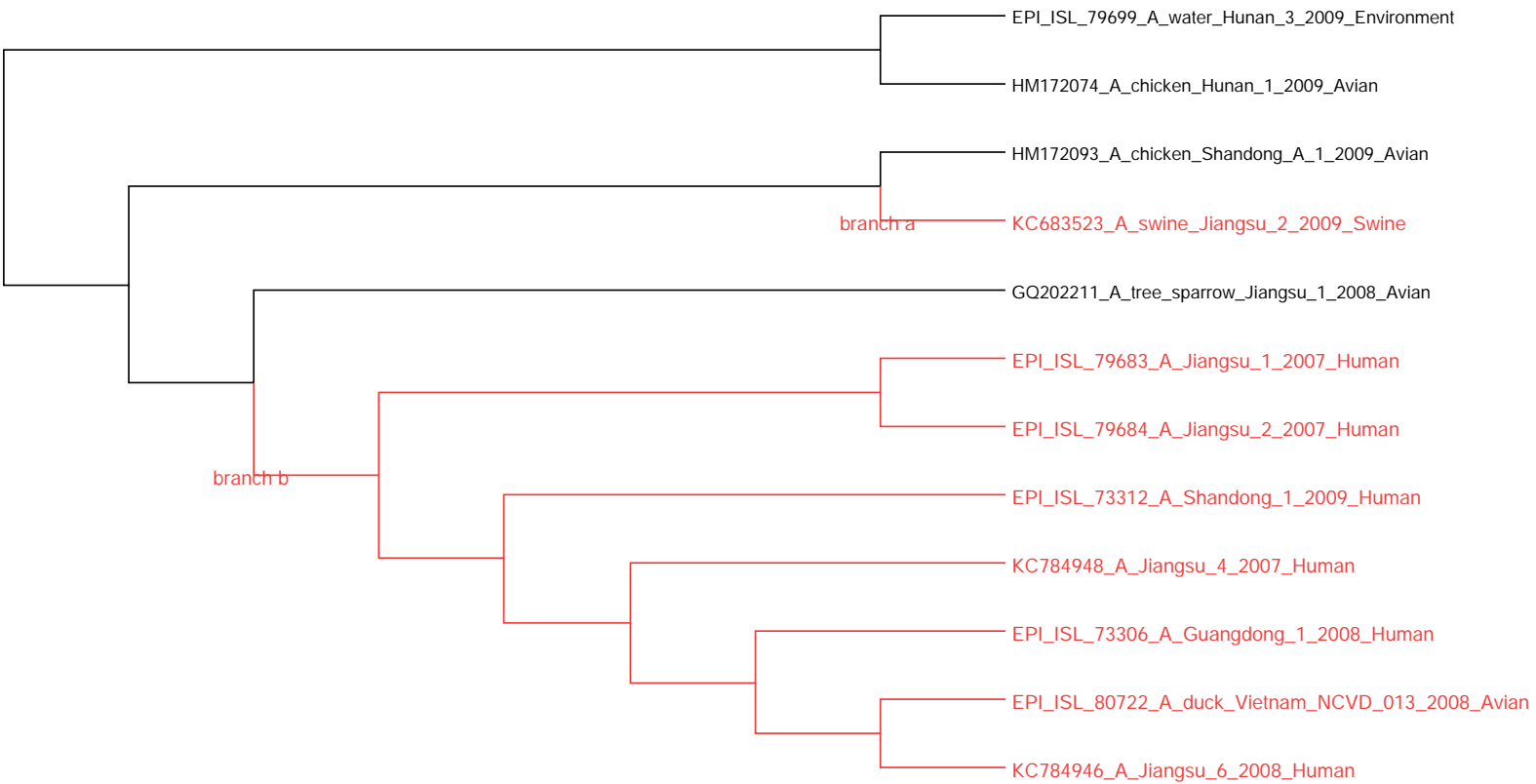
HA-Group107



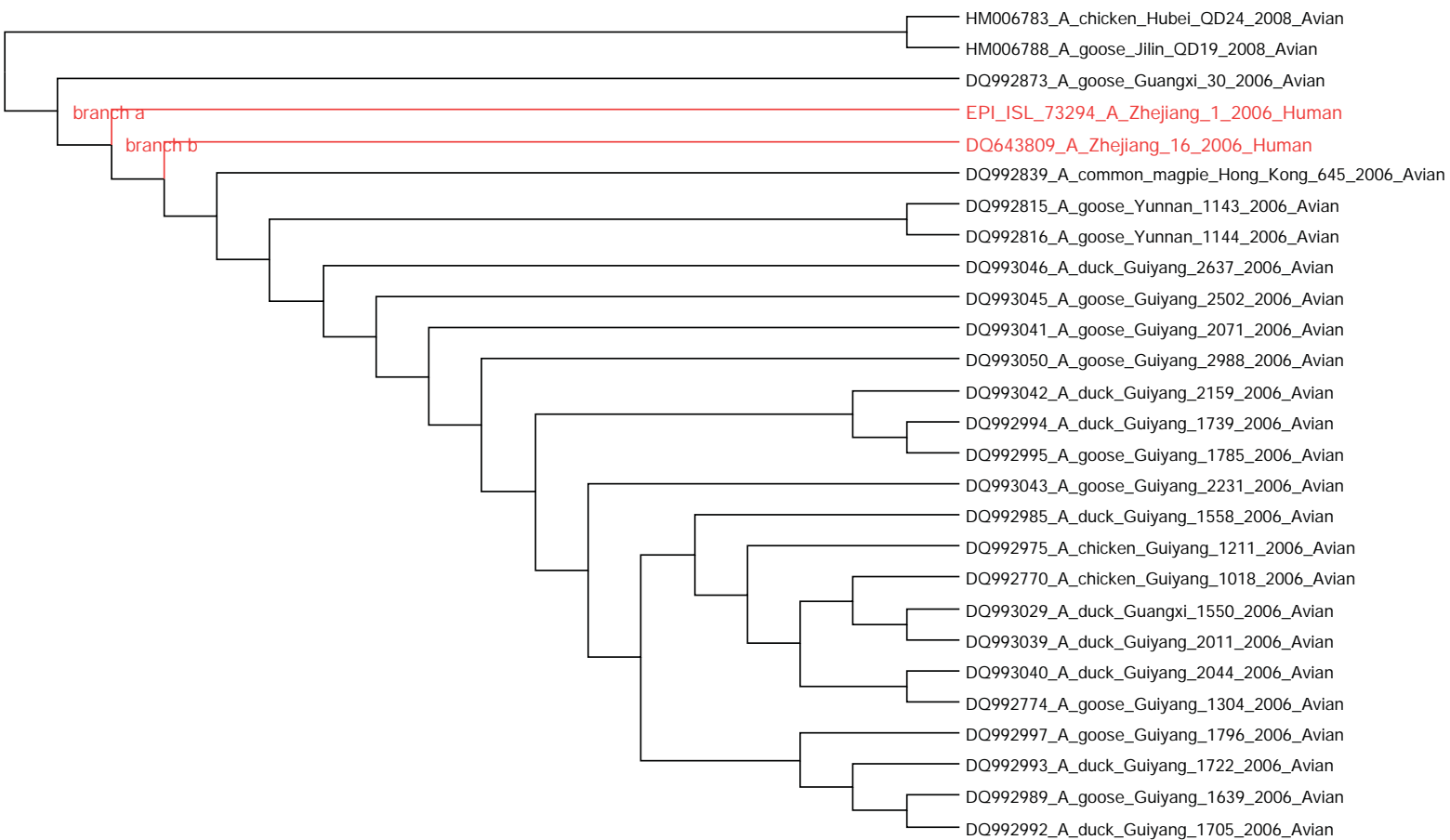
HA-Group108



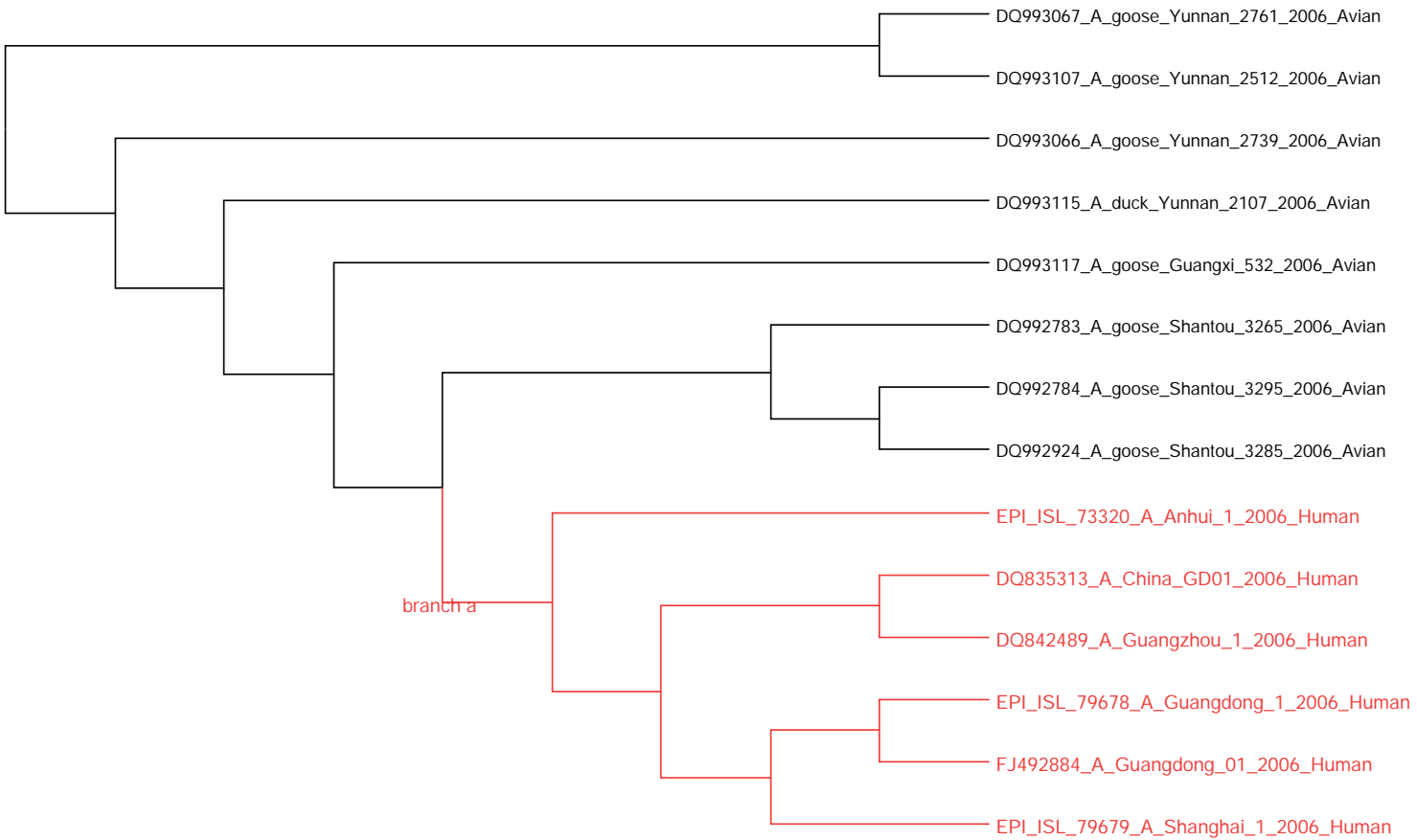
HA-Group109



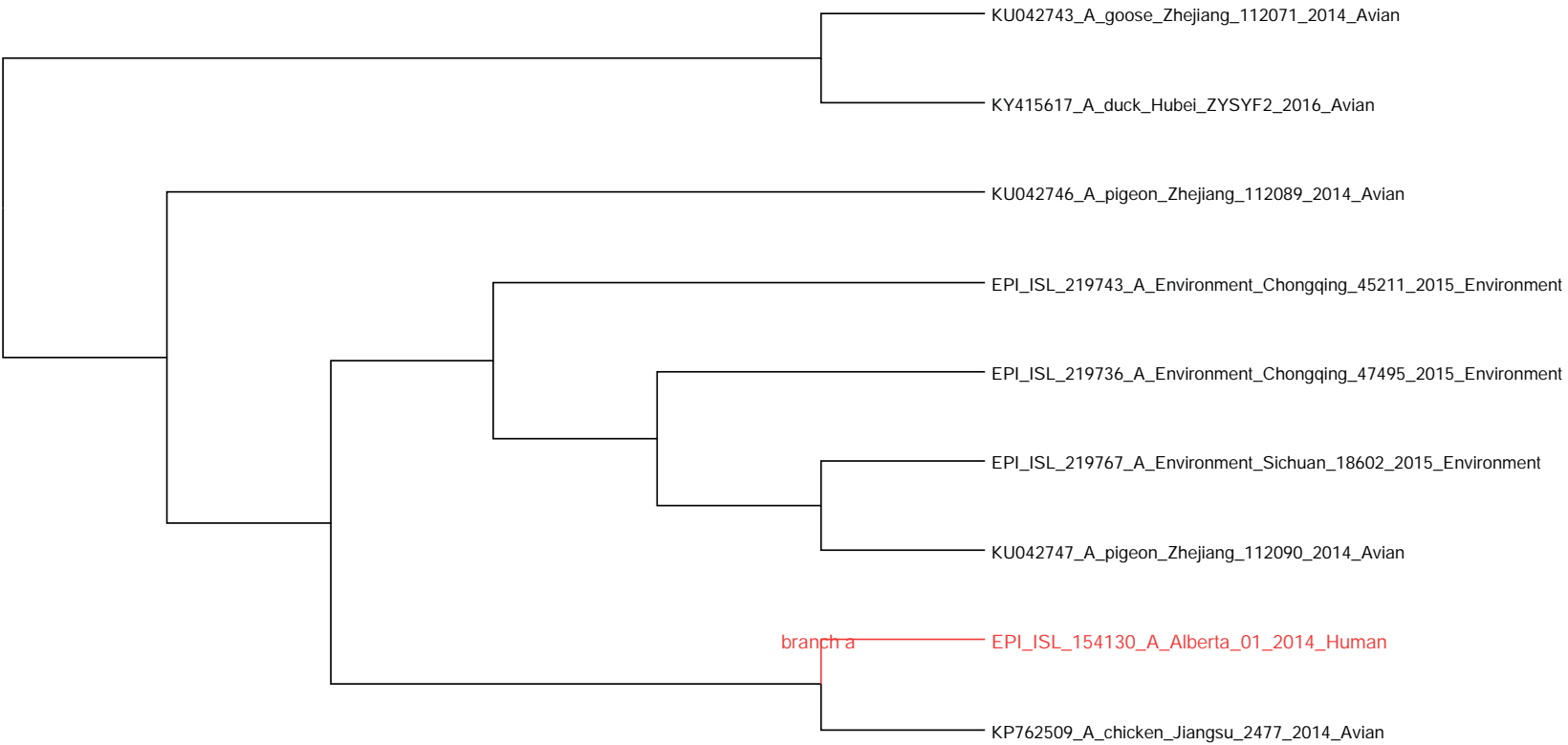
HA-Group110



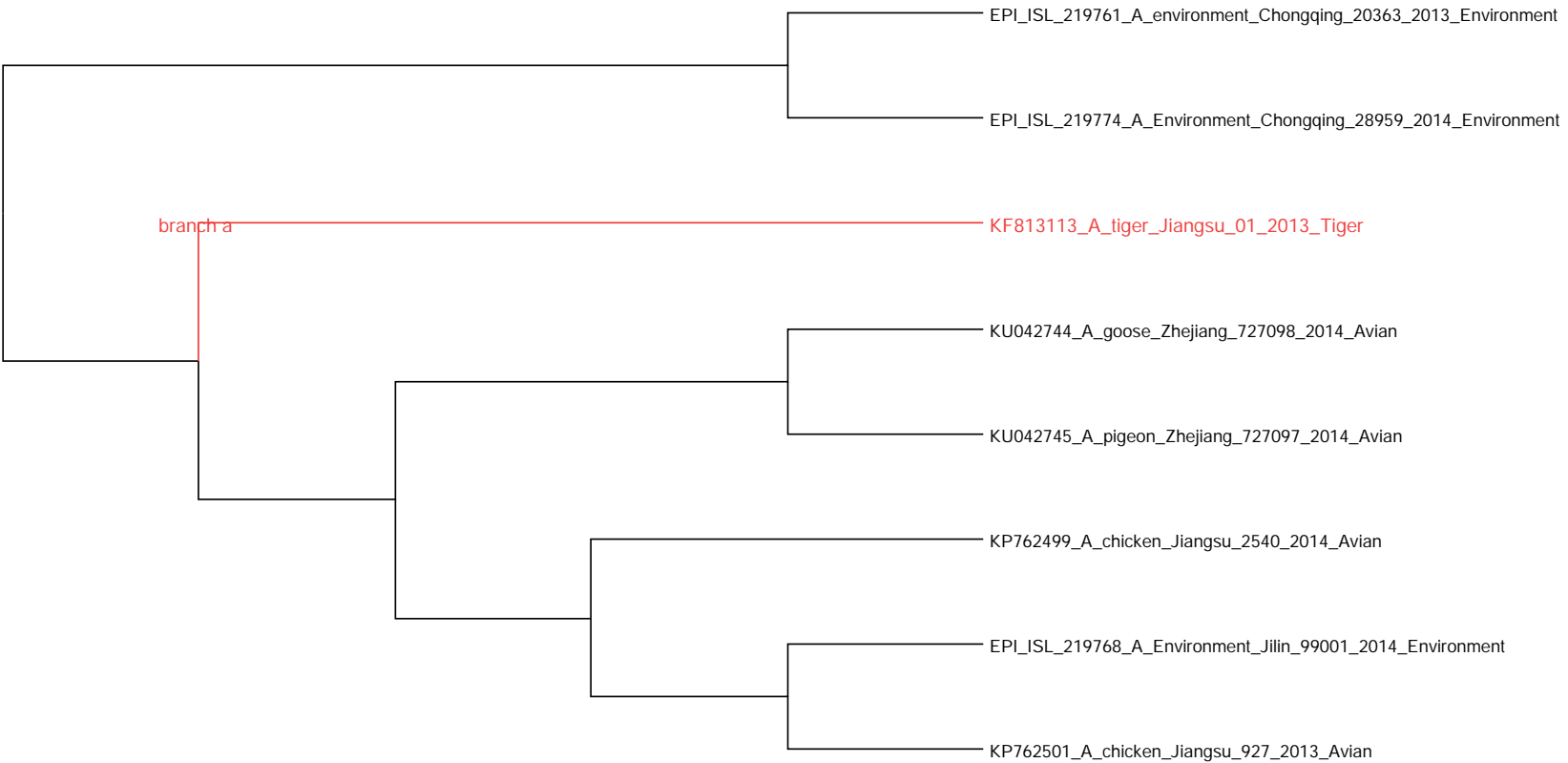
HA-Group111



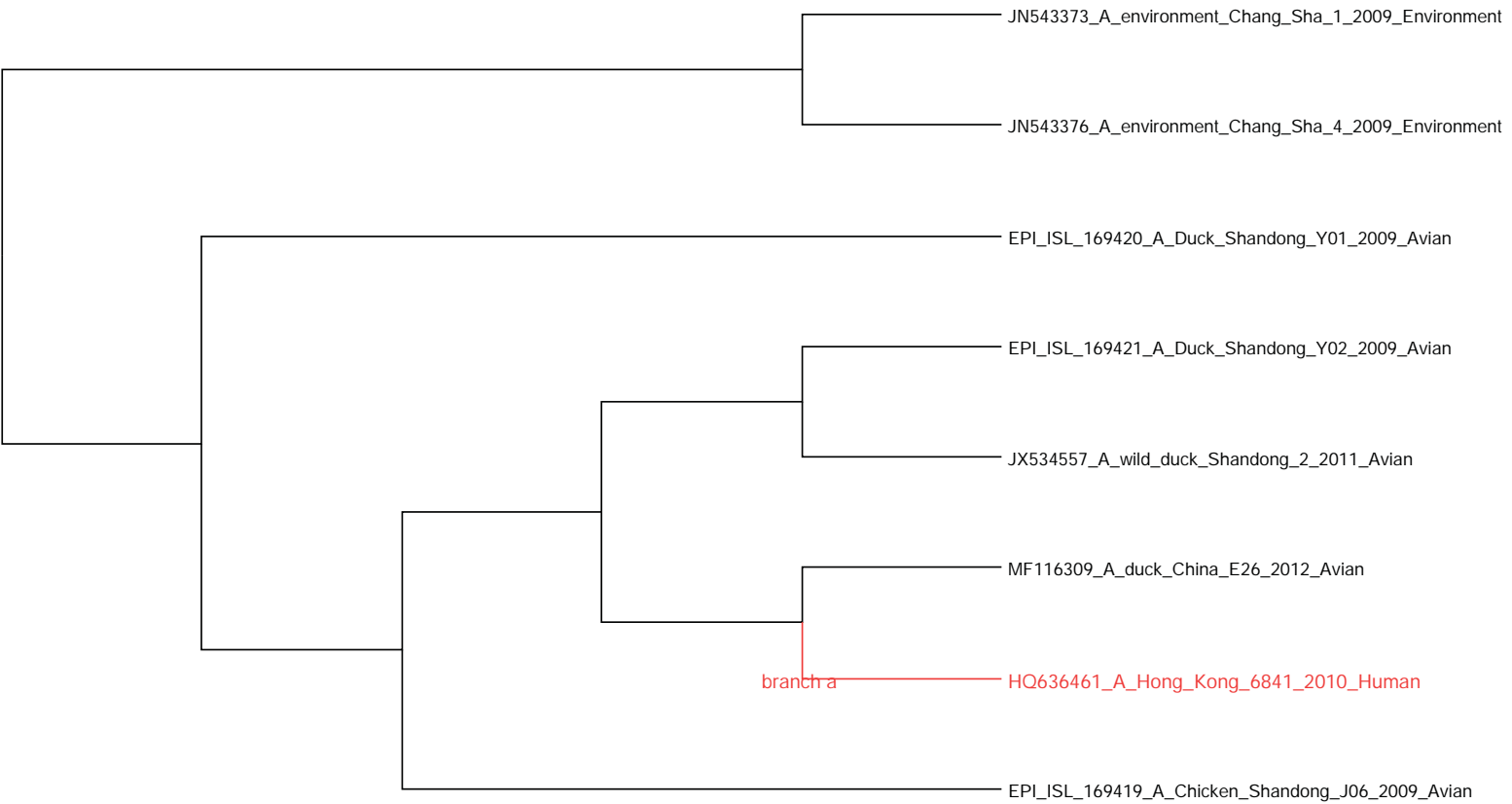
HA-Group112



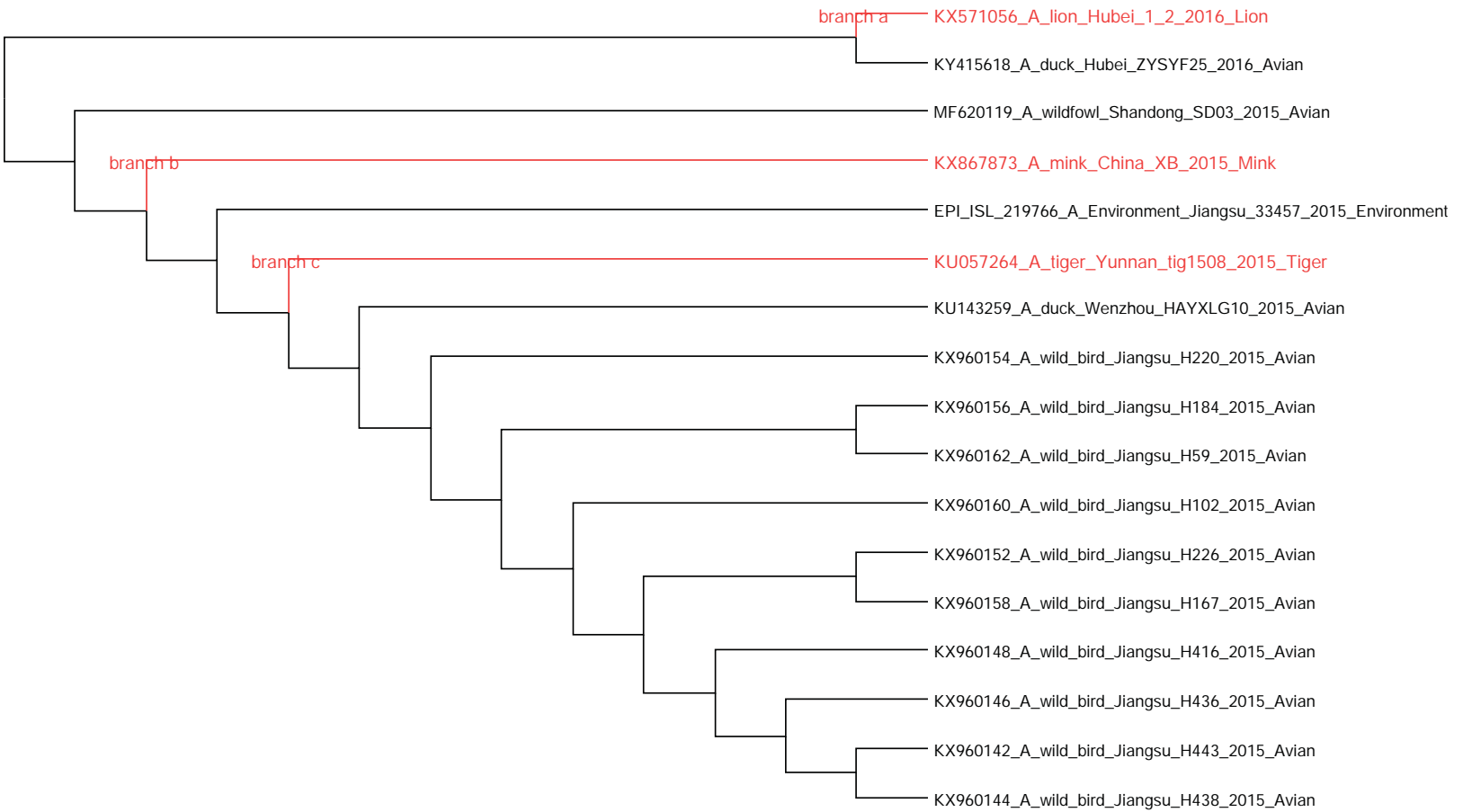
HA-Group113



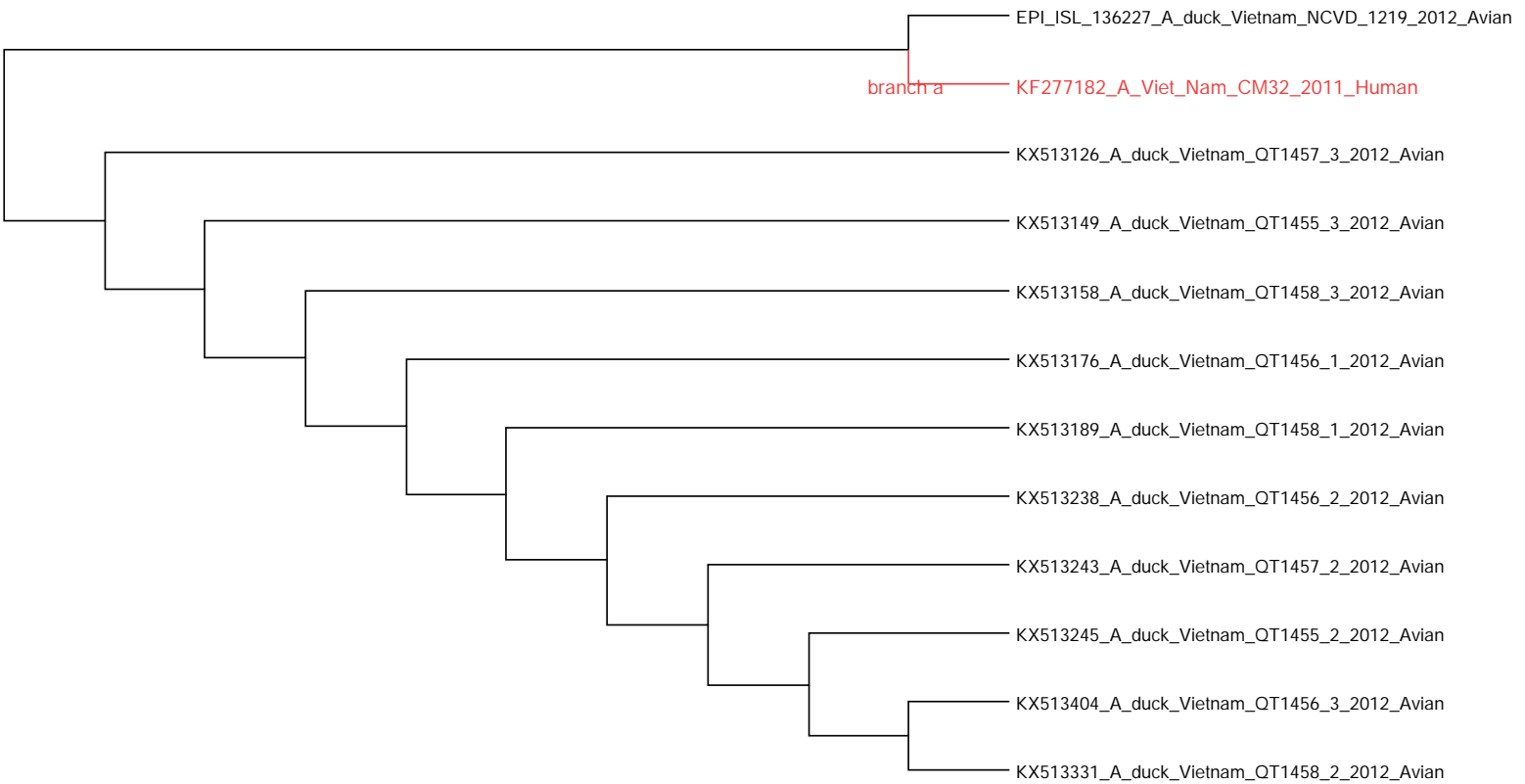
HA-Group114



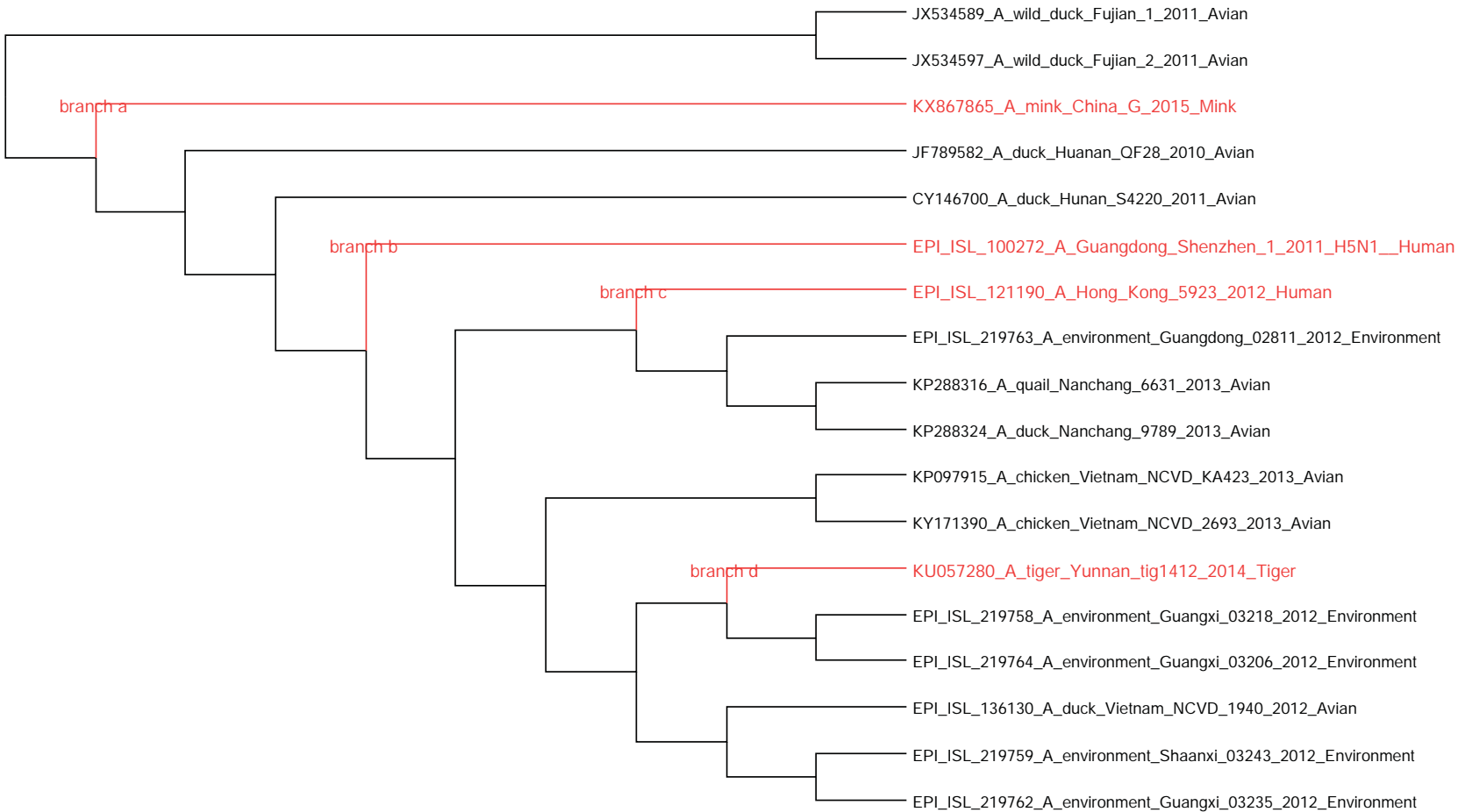
HA-Group115



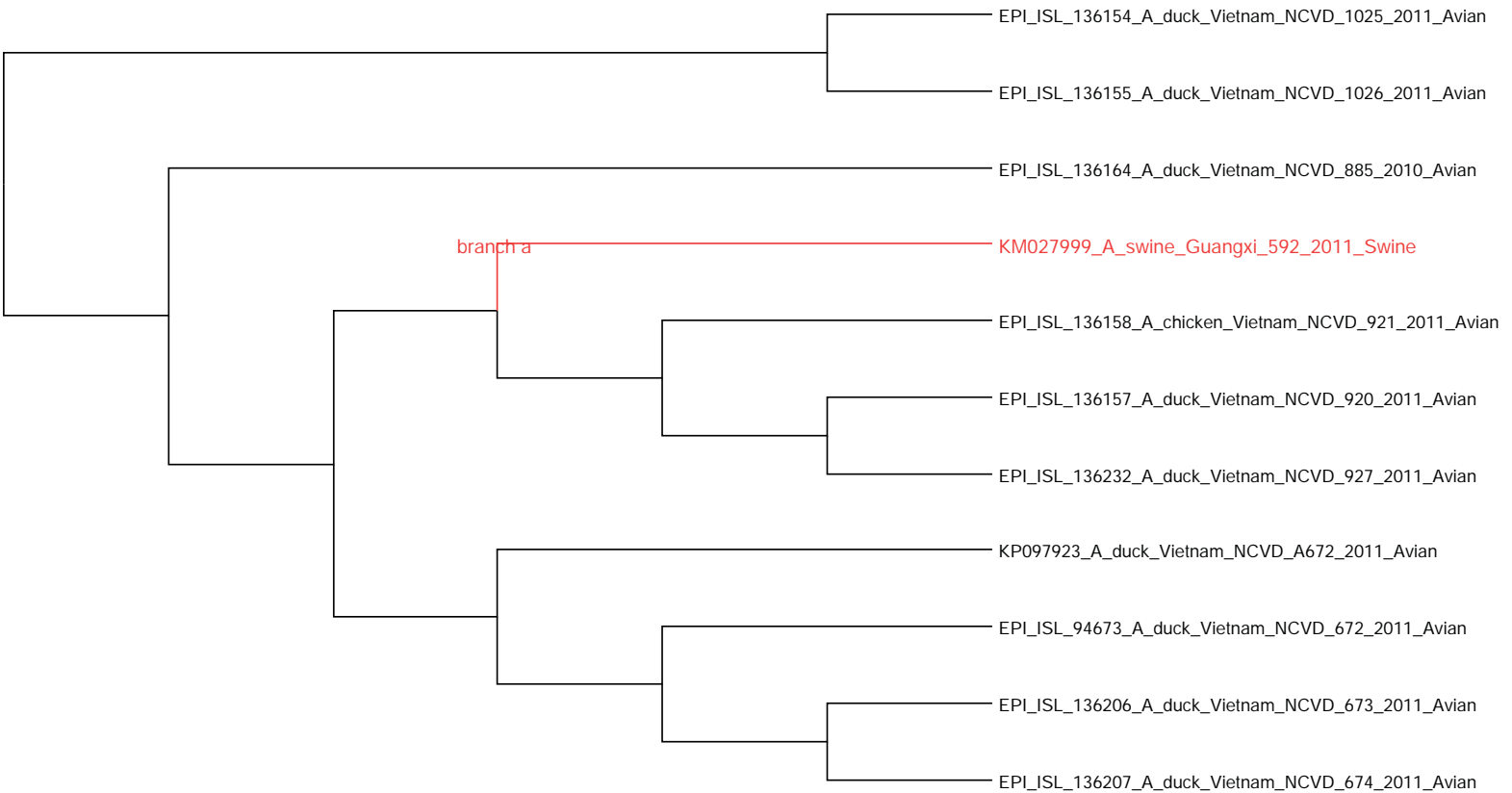
HA-Group116



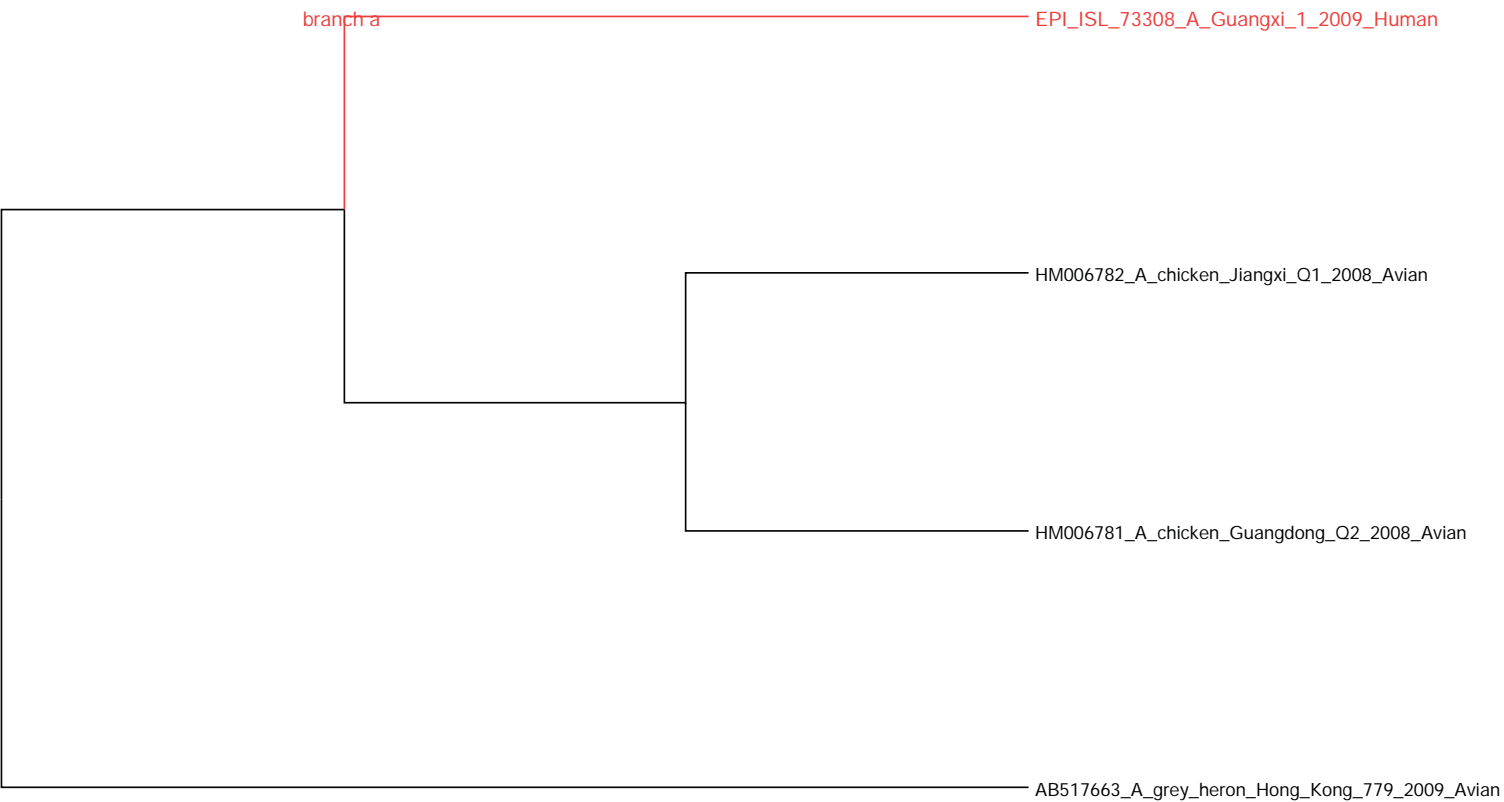
HA-Group117



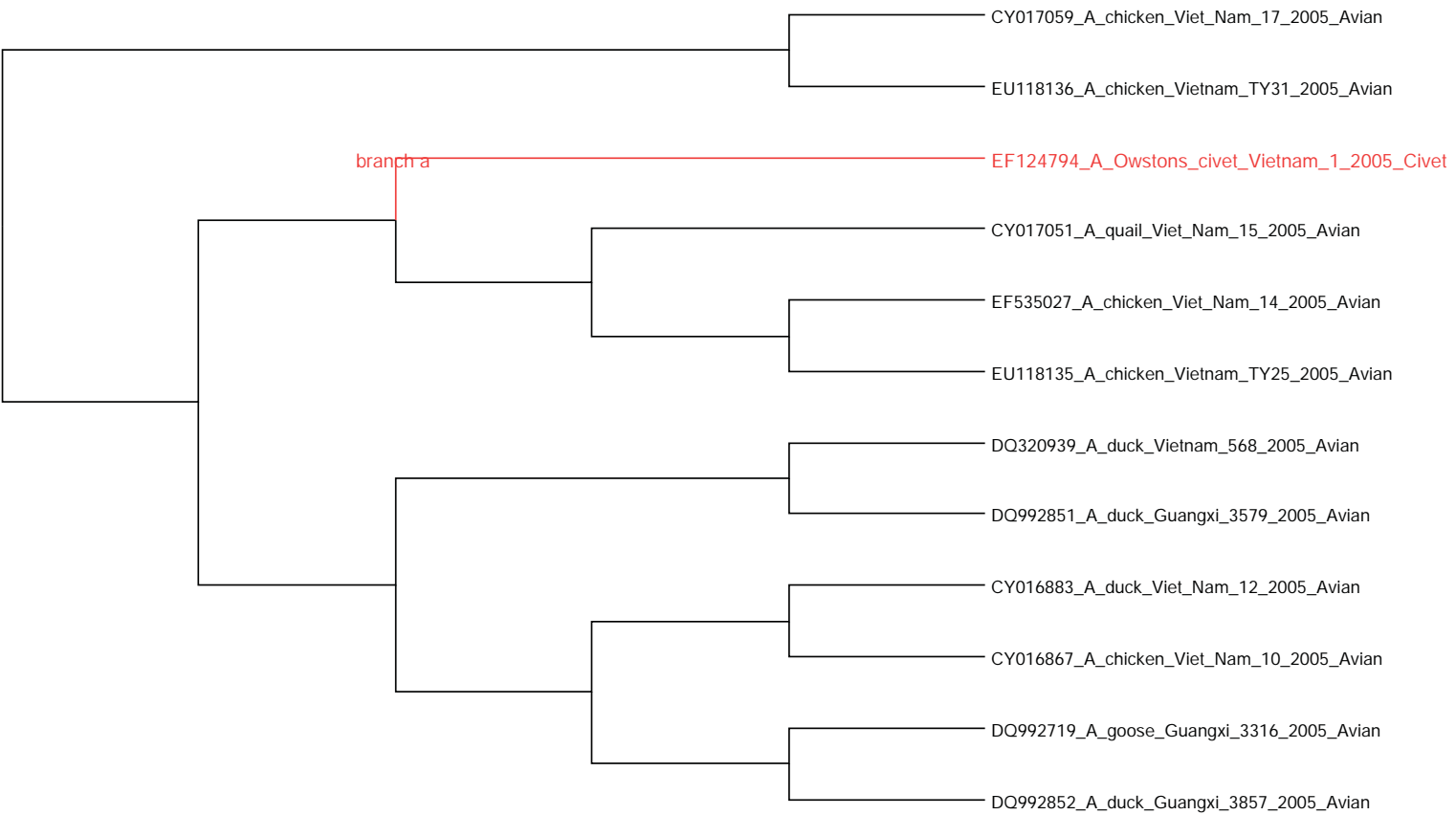
HA-Group 18



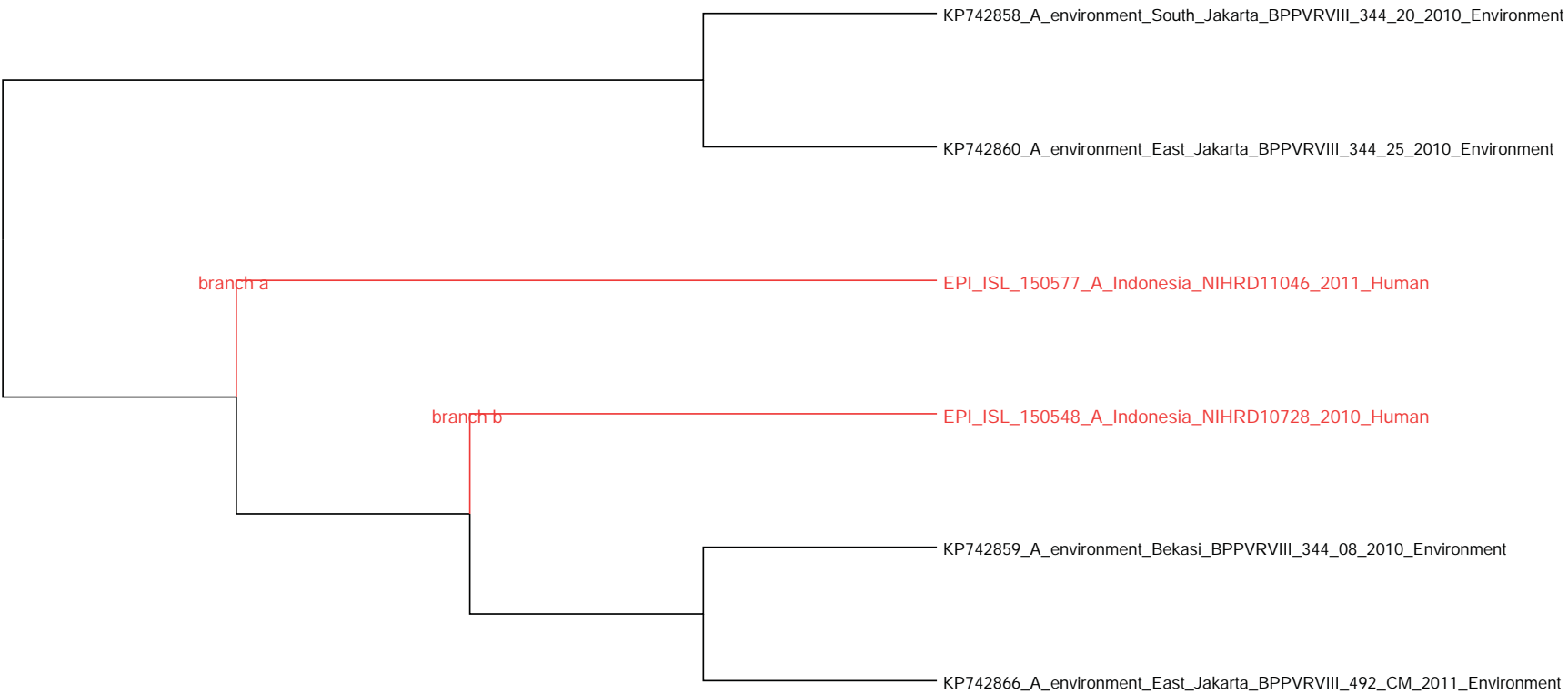
HA-Group19



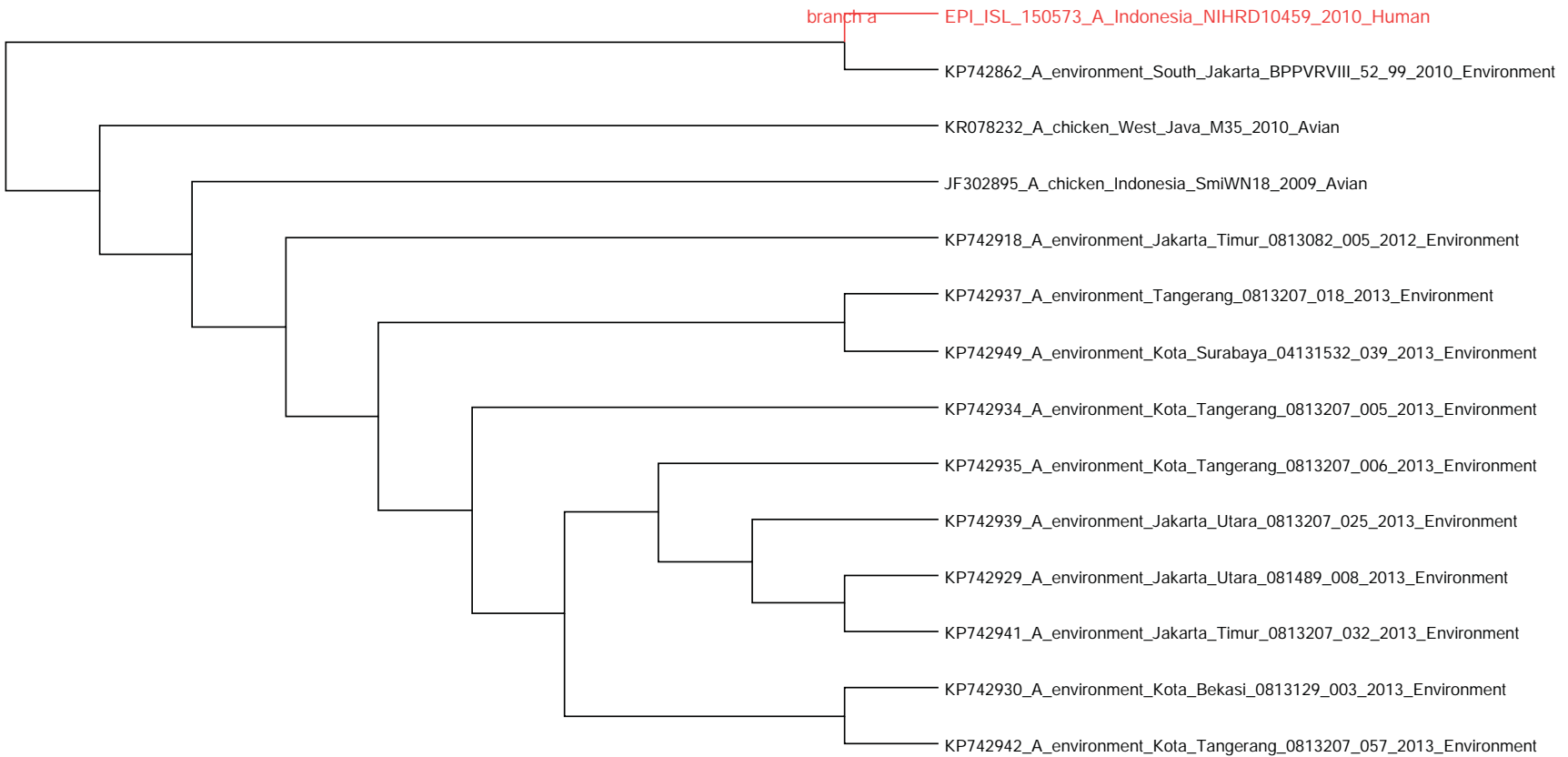
HA-Group120



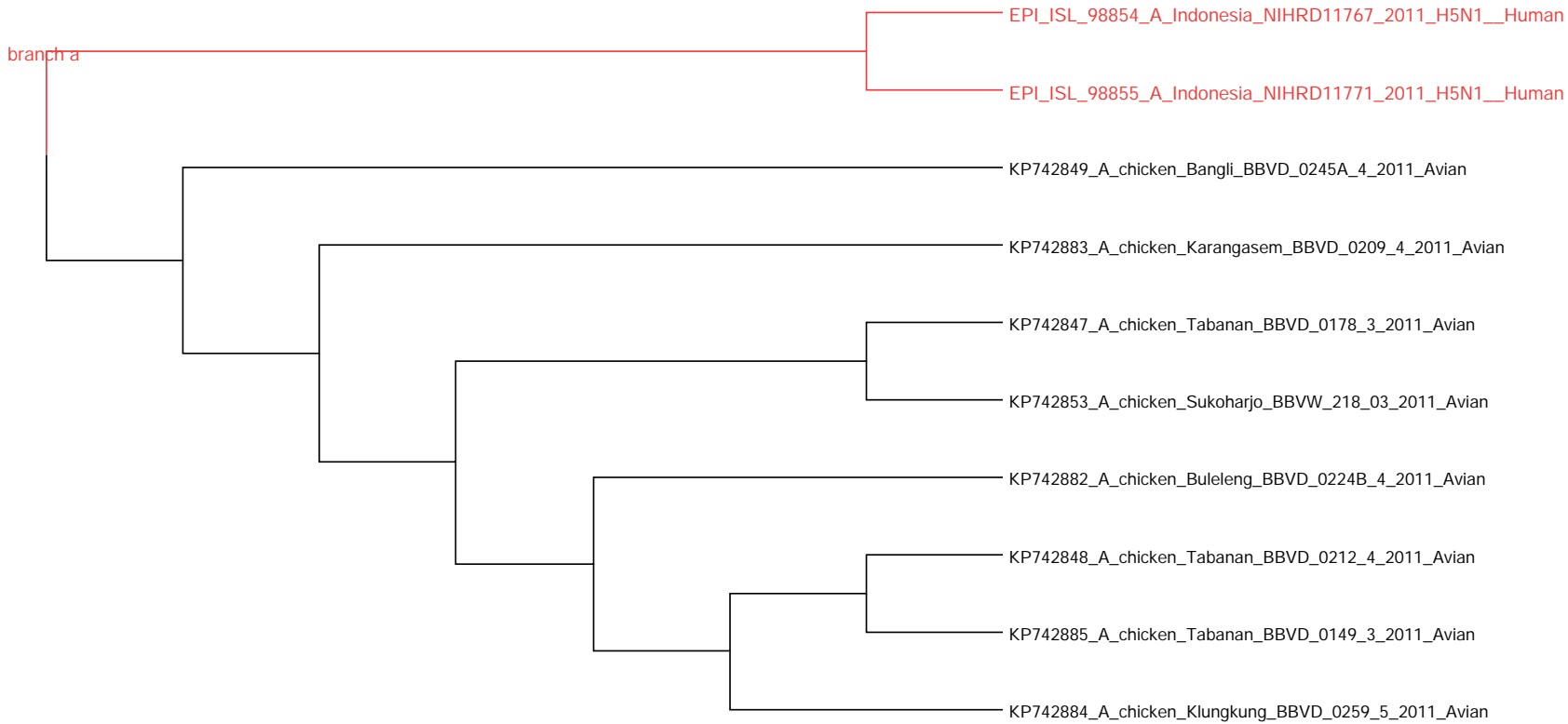
HA-Group121



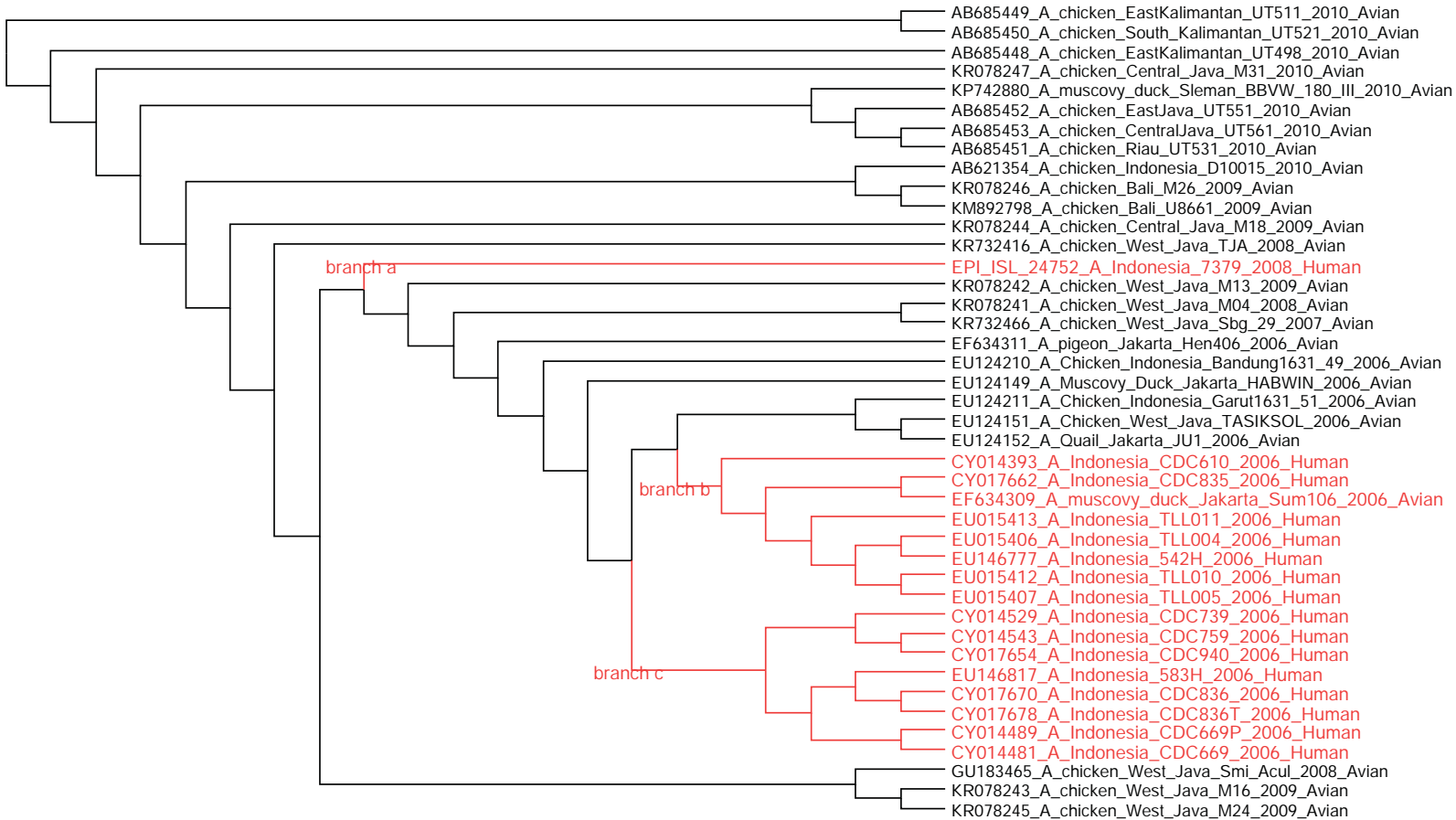
HA-Group122



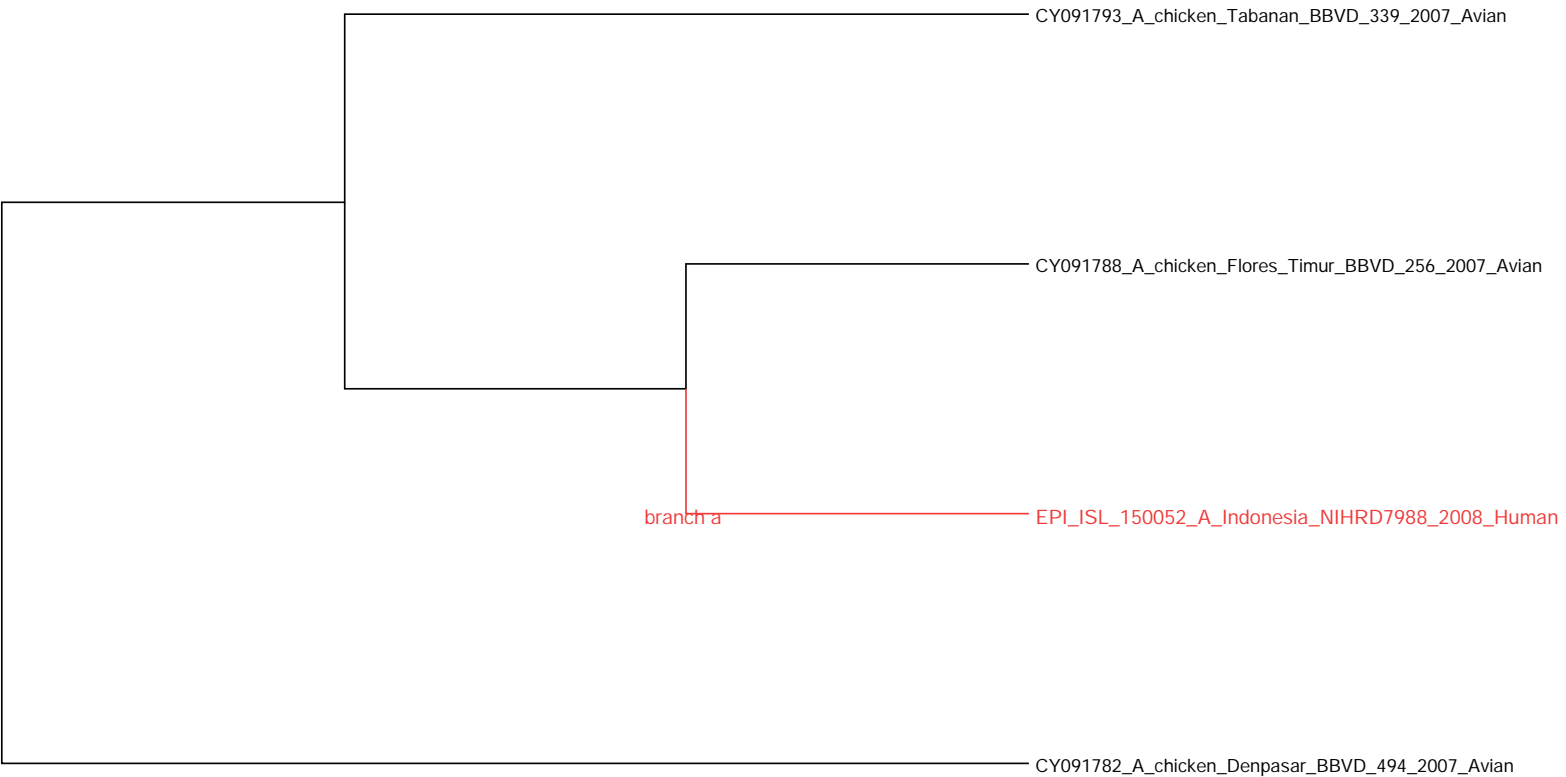
HA-Group123



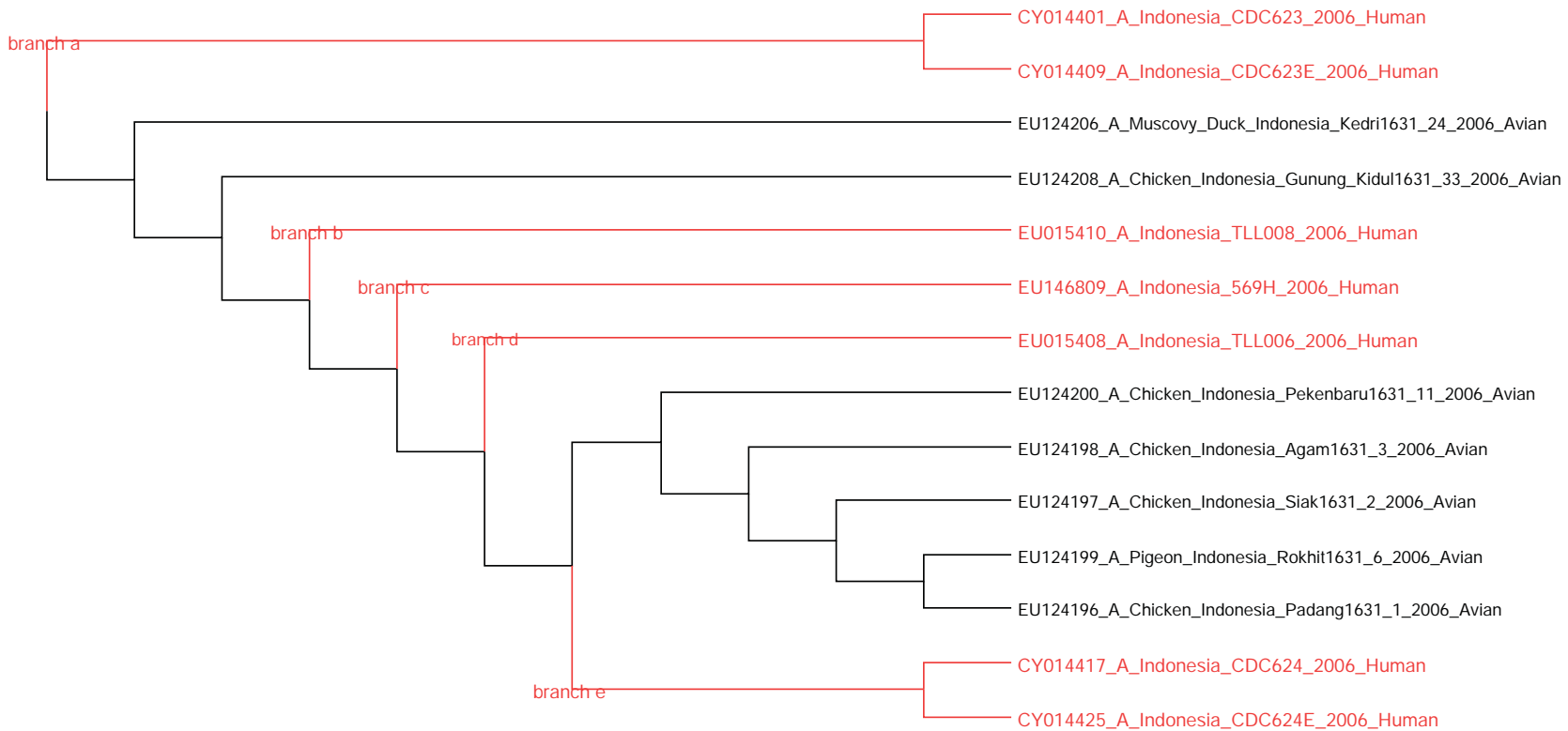
HA-Group124



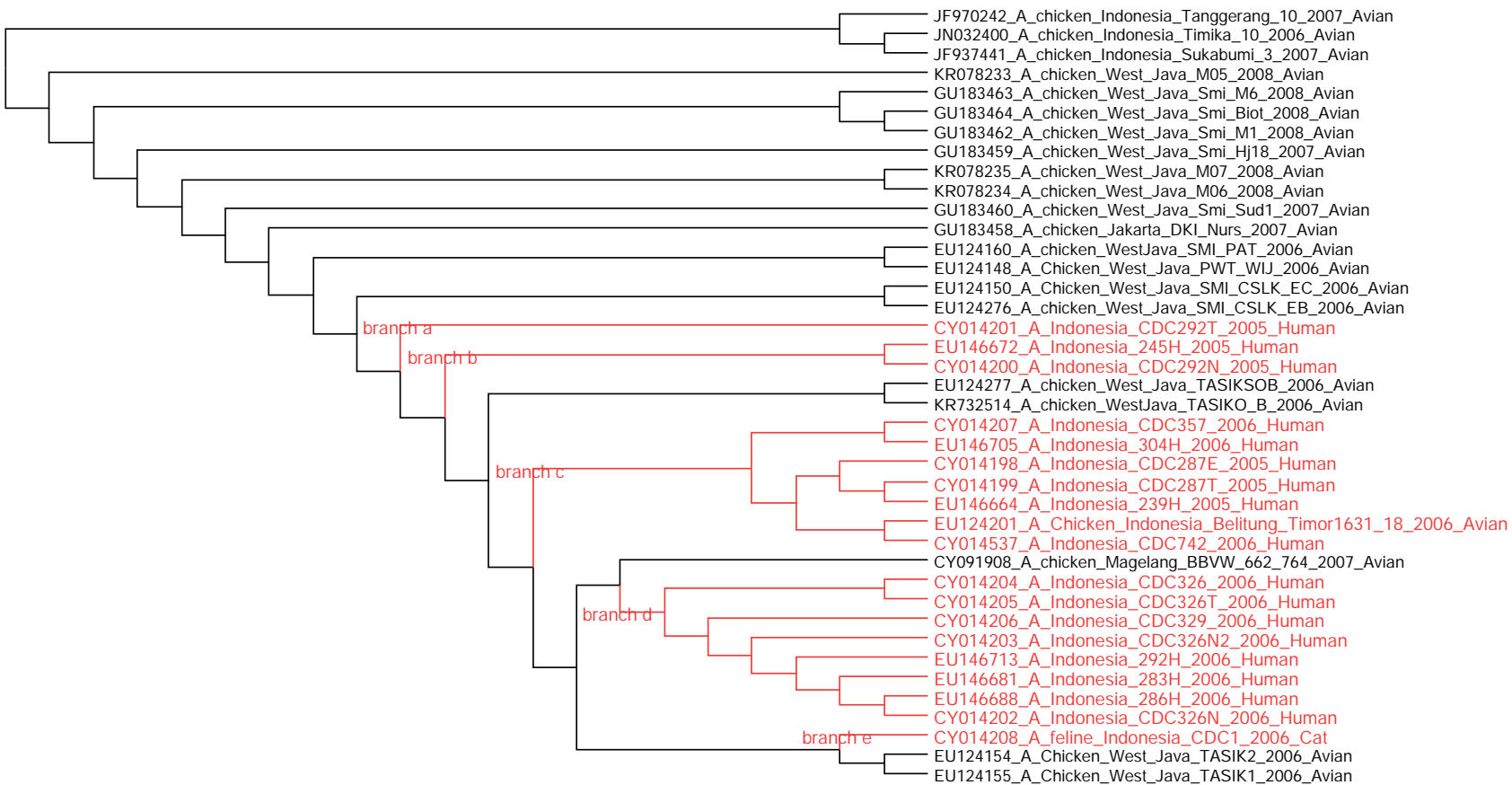
HA-Group125



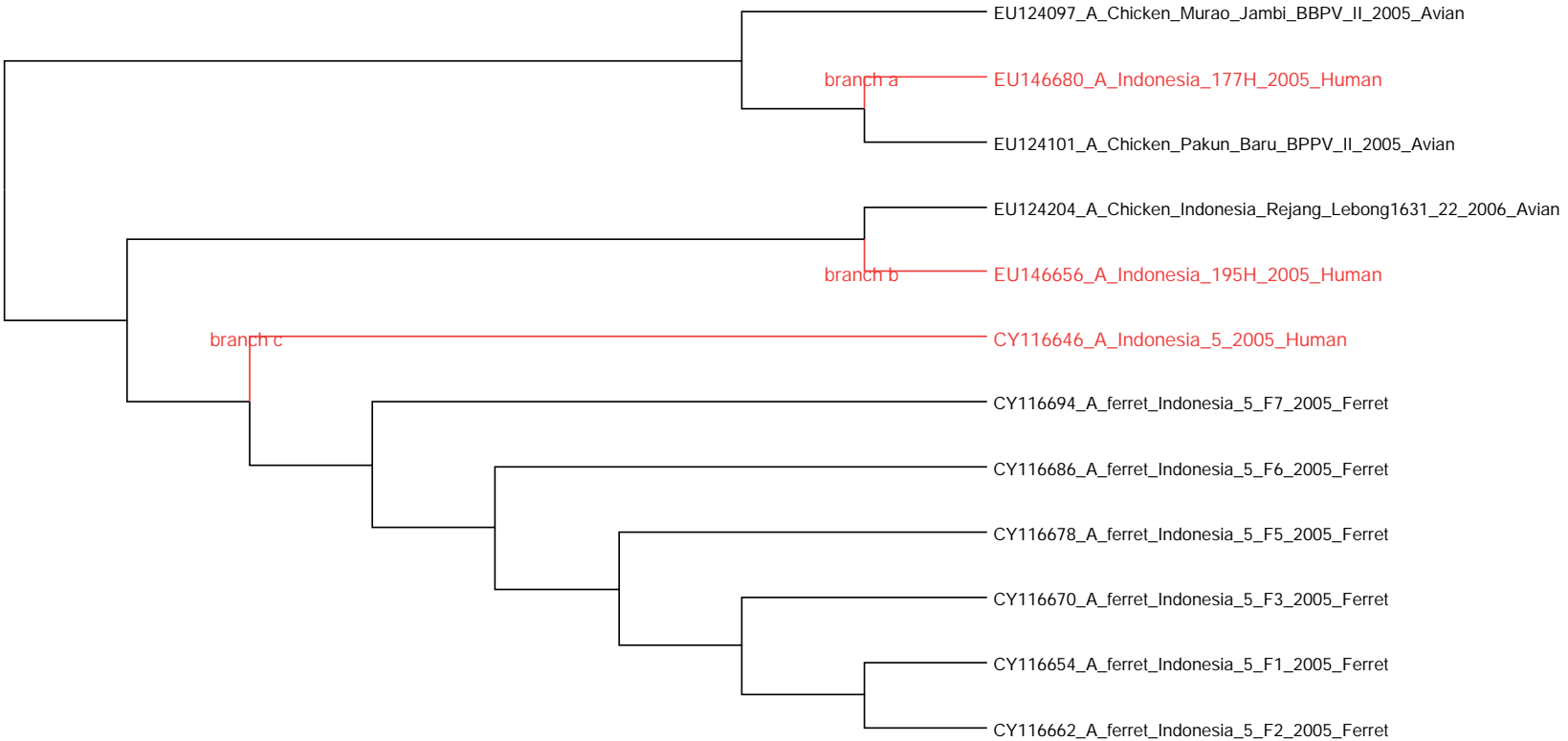
HA-Group 126



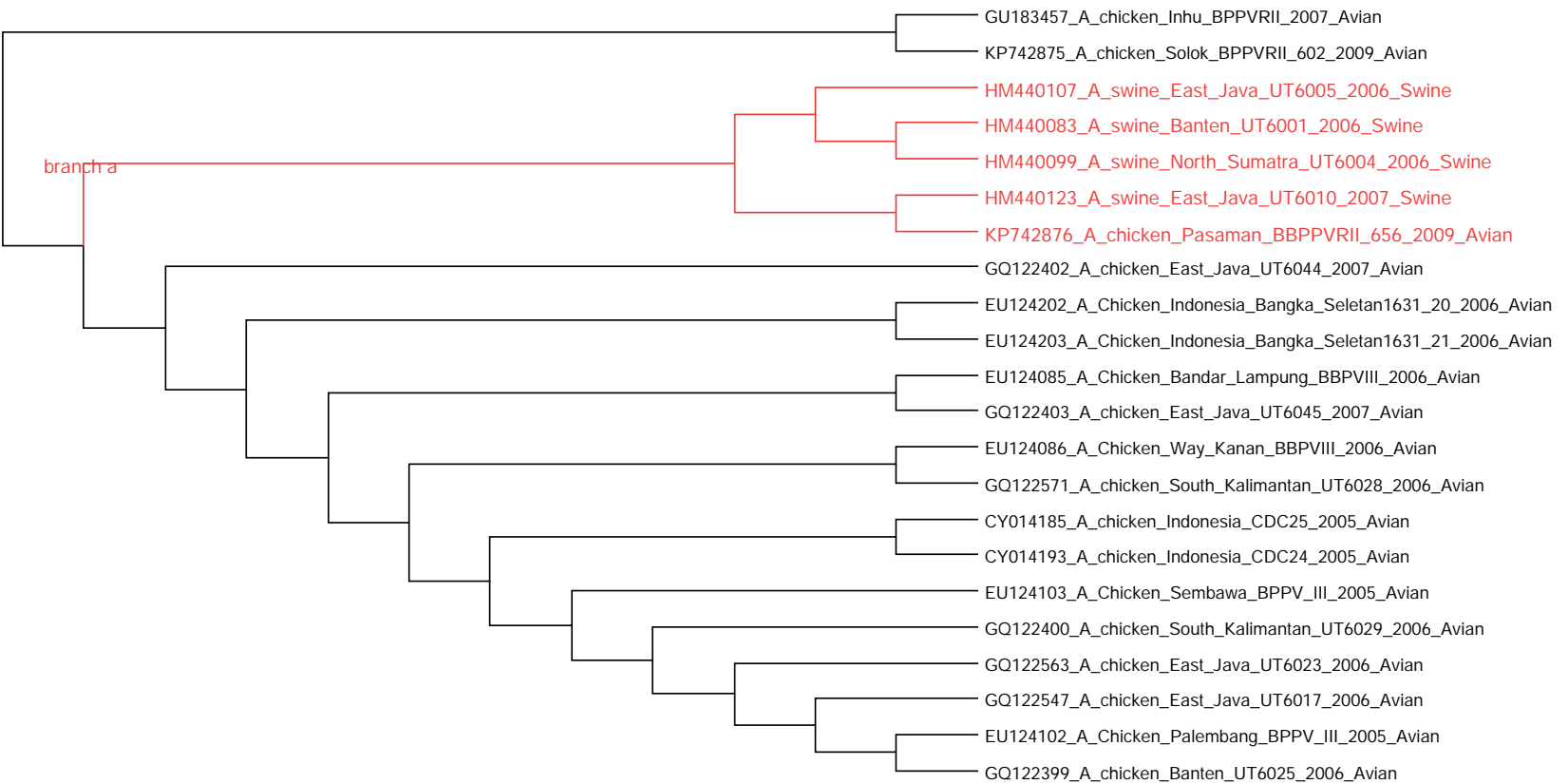
HA-Group127



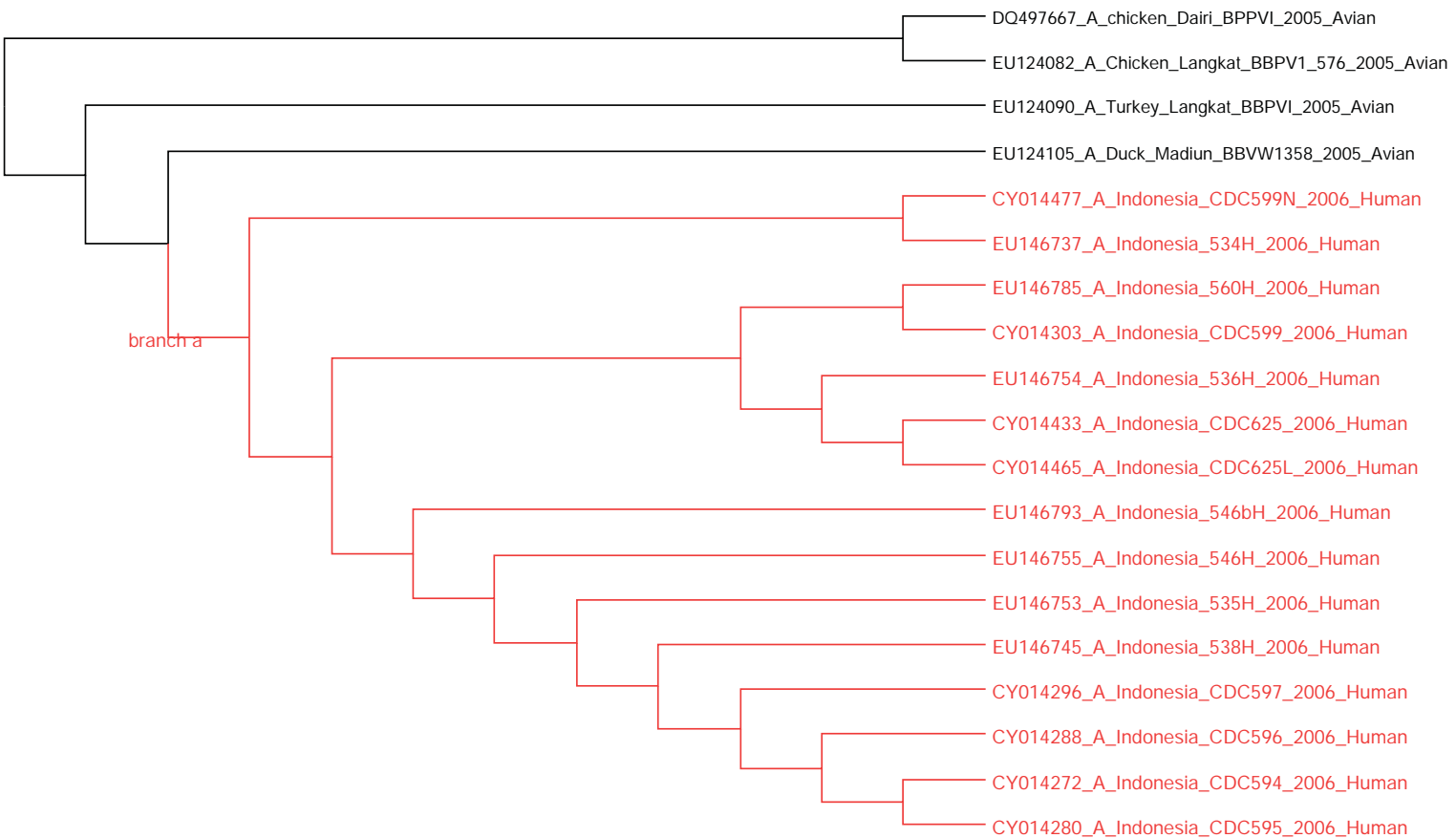
HA-Group128



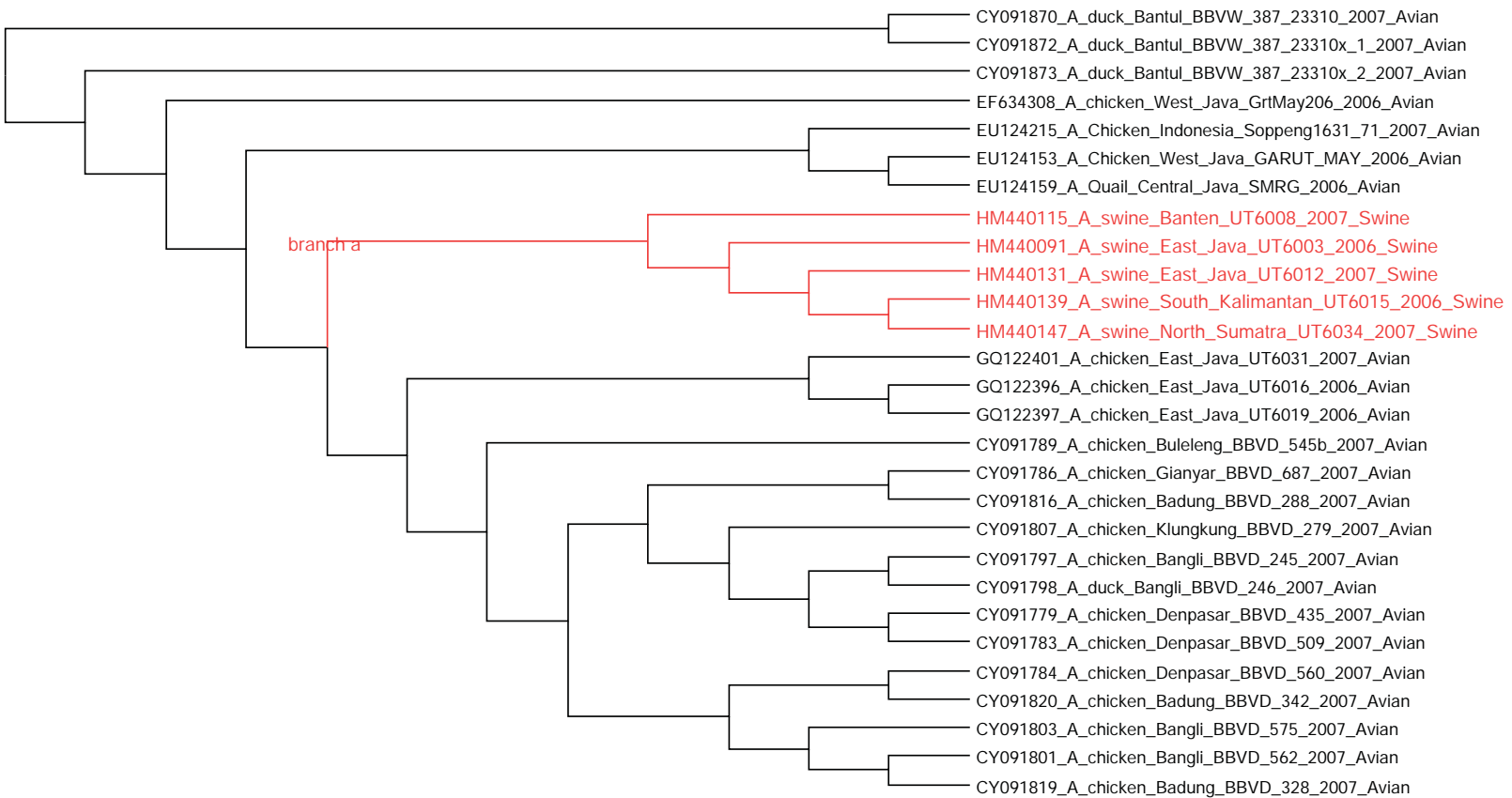
HA-Group129



HA-Group 130



HA-Group 131



HA-Group132

