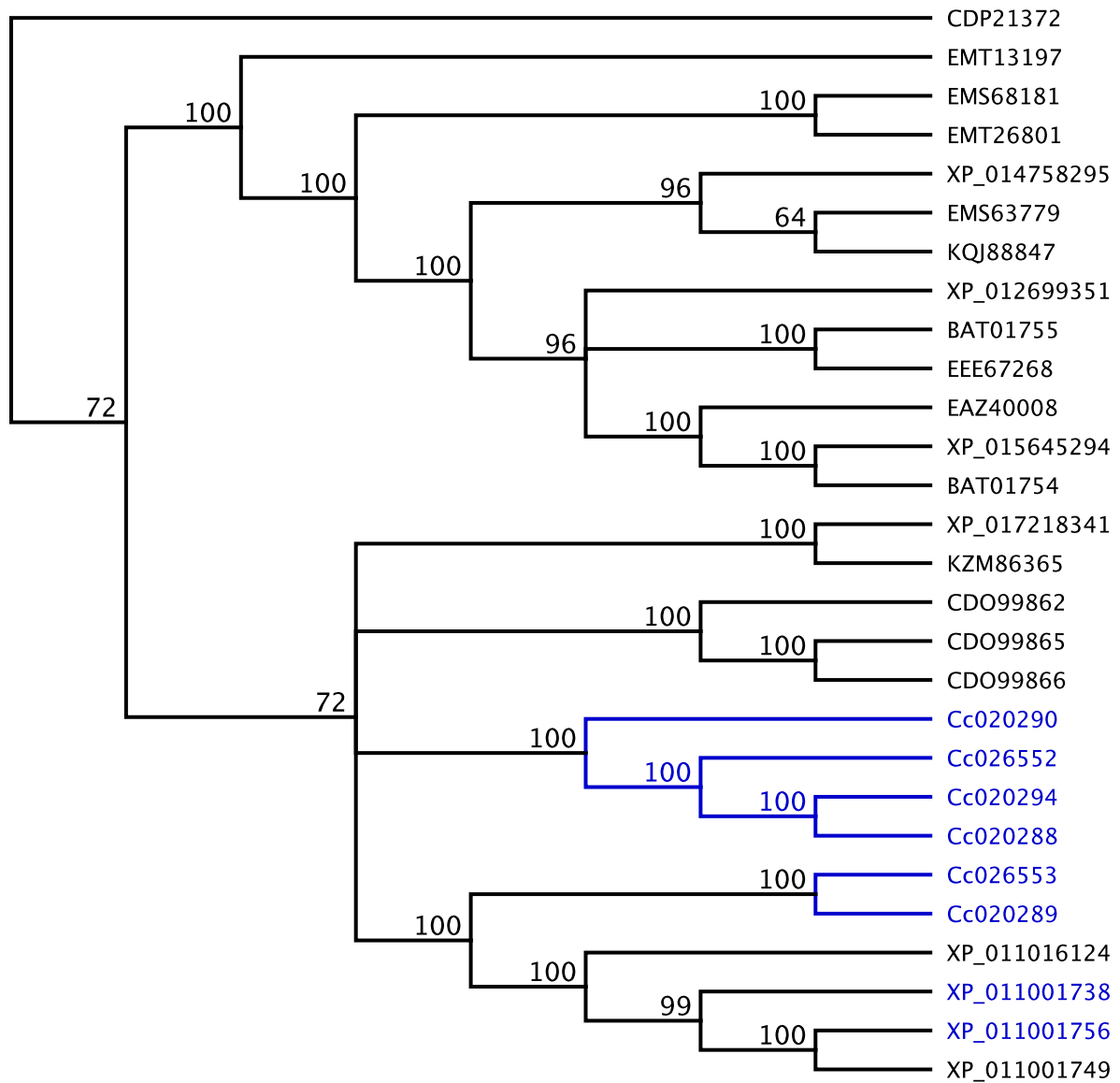


## HGT candidate gene trees

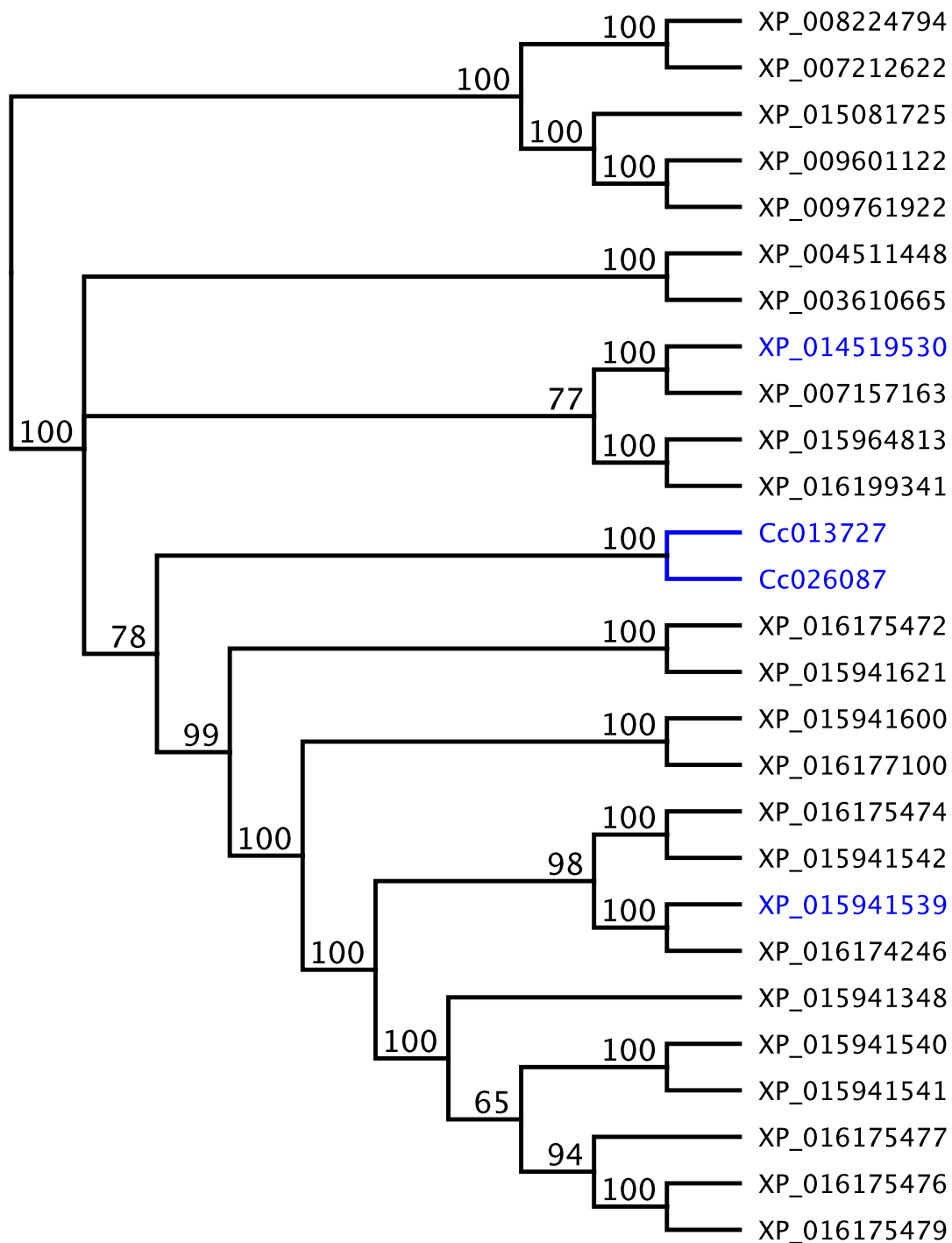
For each novel *Cuscuta campestris* HGT candidate listed in Supplementary Table 4 that generated hits with more than one genus, a cladogram based on the alignments with an extended best hit sequence set as identified by MEGAN v.6.0.0 is shown. Partial sequence annotations were removed from the analysis. The trees were created with the multiple sequence alignment tool ClustalW2. Numbers at the nodes indicate bootstrap values from 1000 repetitions. *C. campestris* genes and their respective best hits as listed in Supplementary Table 4 are highlighted in blue.

The trees are listed in the same order as the genes are listed in Supplementary Table 4 with the respective putative donor gene given on top.

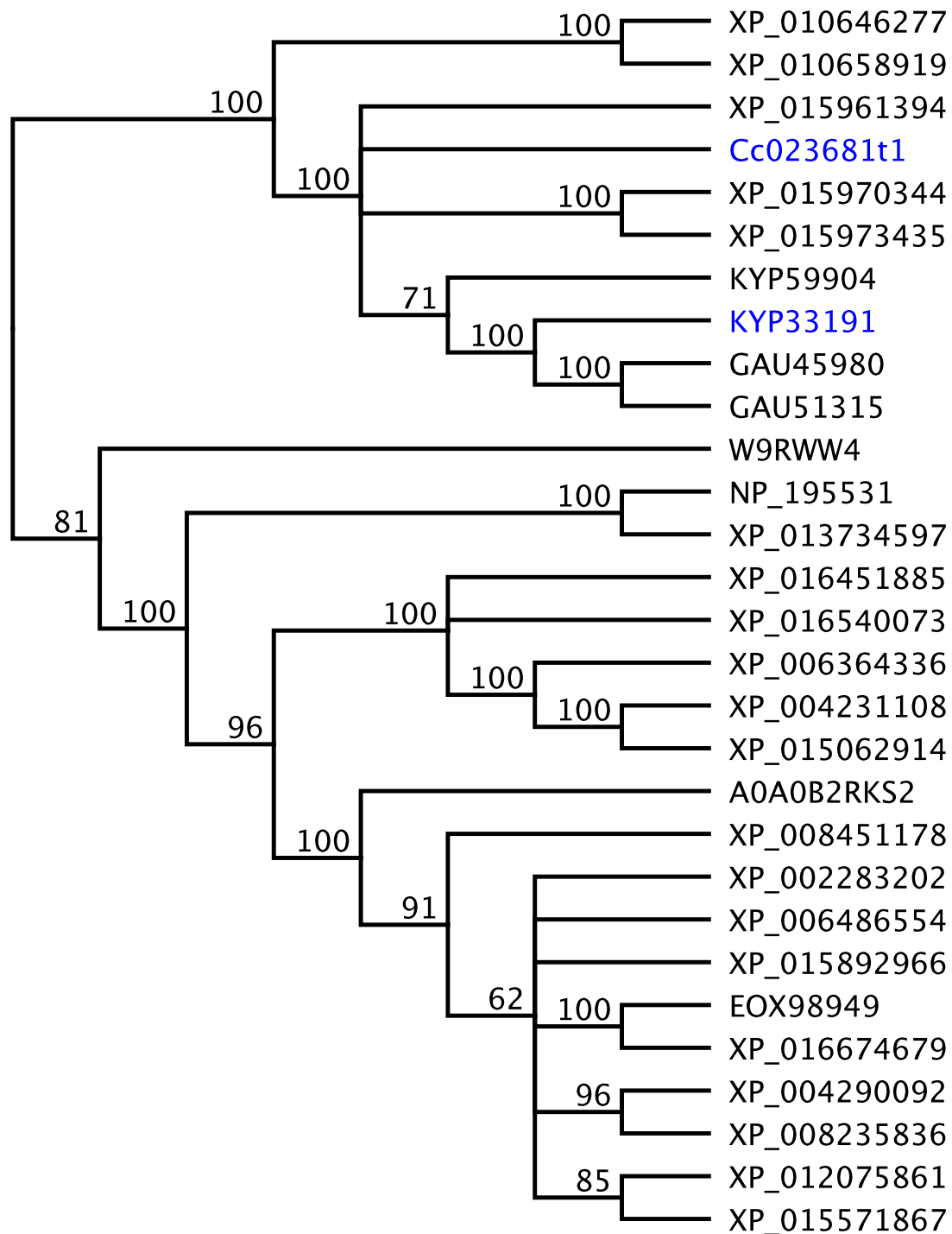
Putative donor sequences: XP\_011001738.1 + XP\_011001756.1



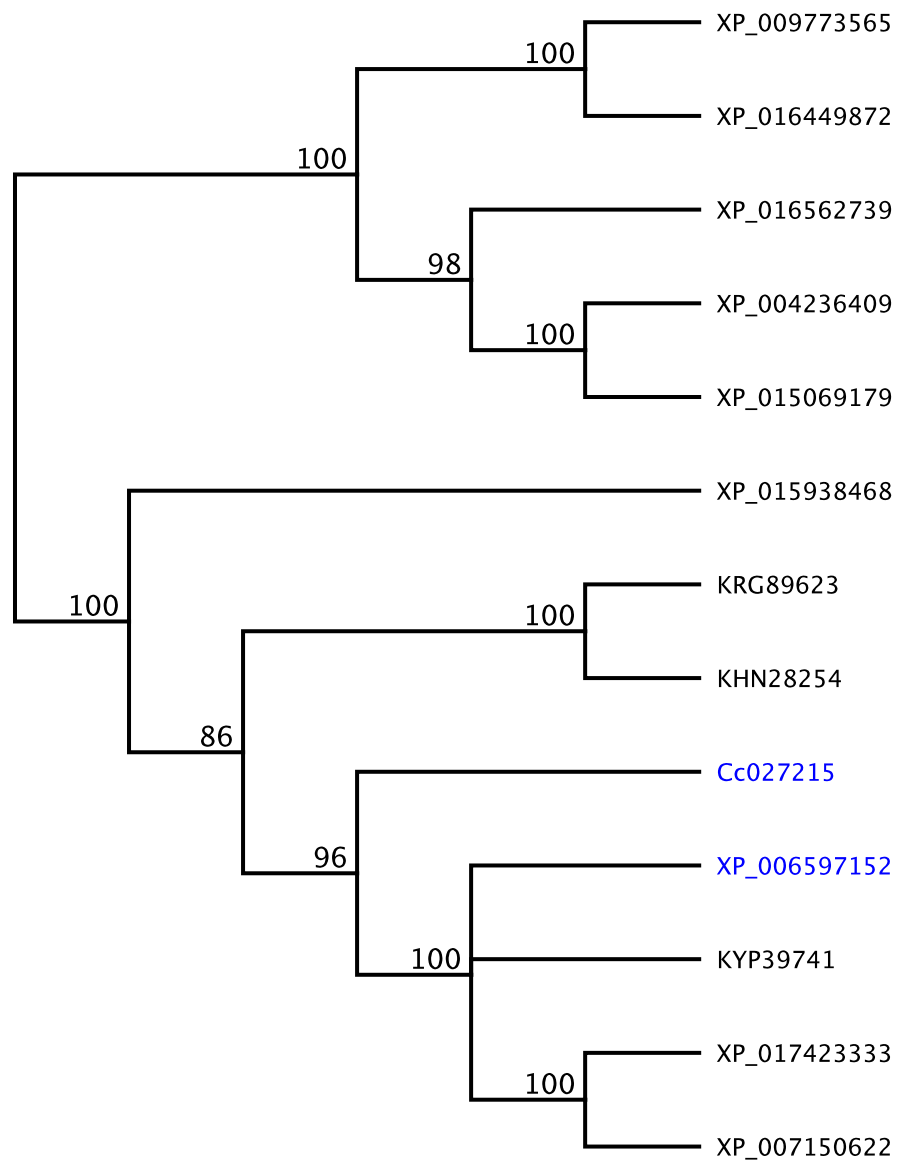
Putative donor sequences: XP\_014519530.1 + XP\_015941539.1



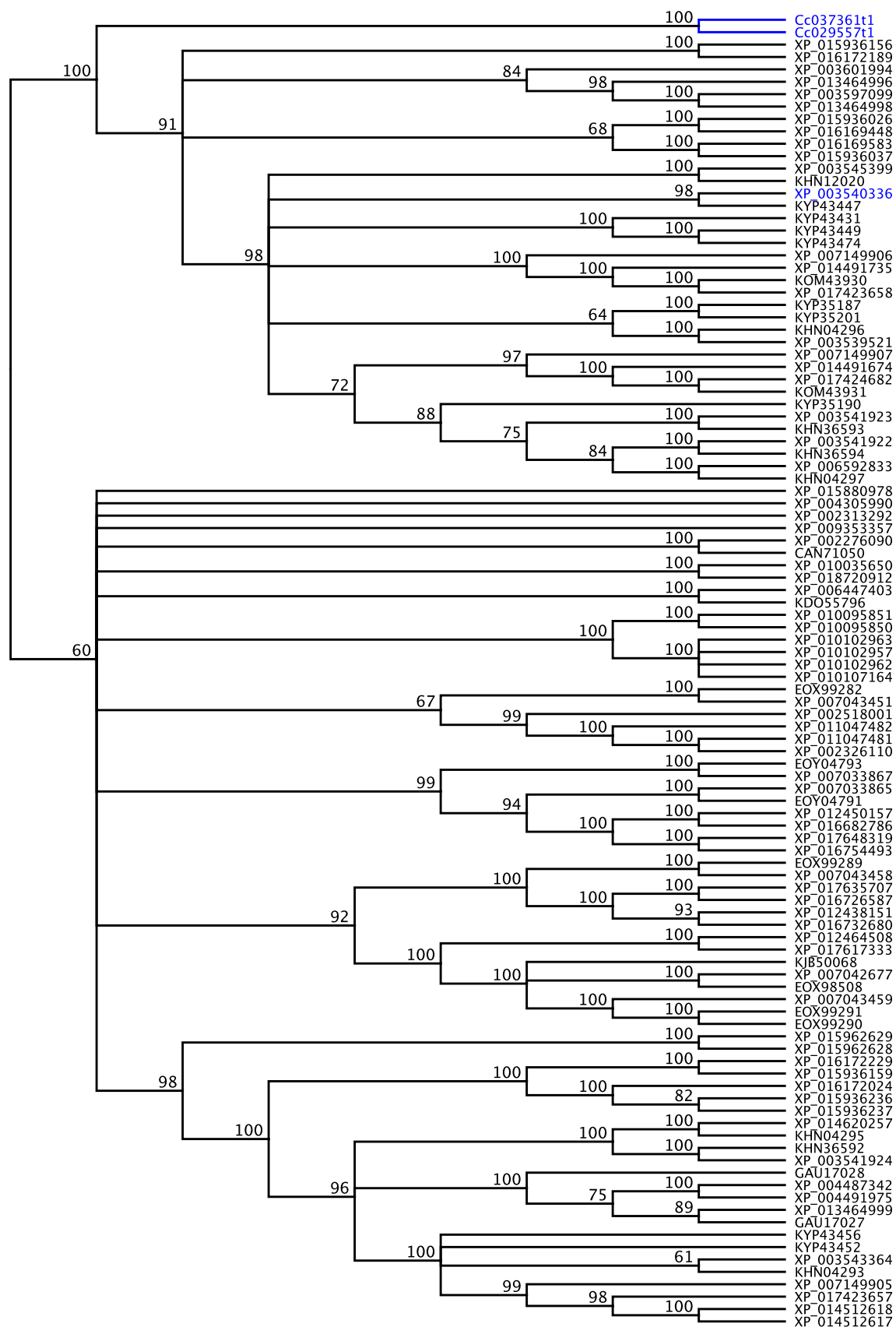
Putative donor sequences: KYP33191.1



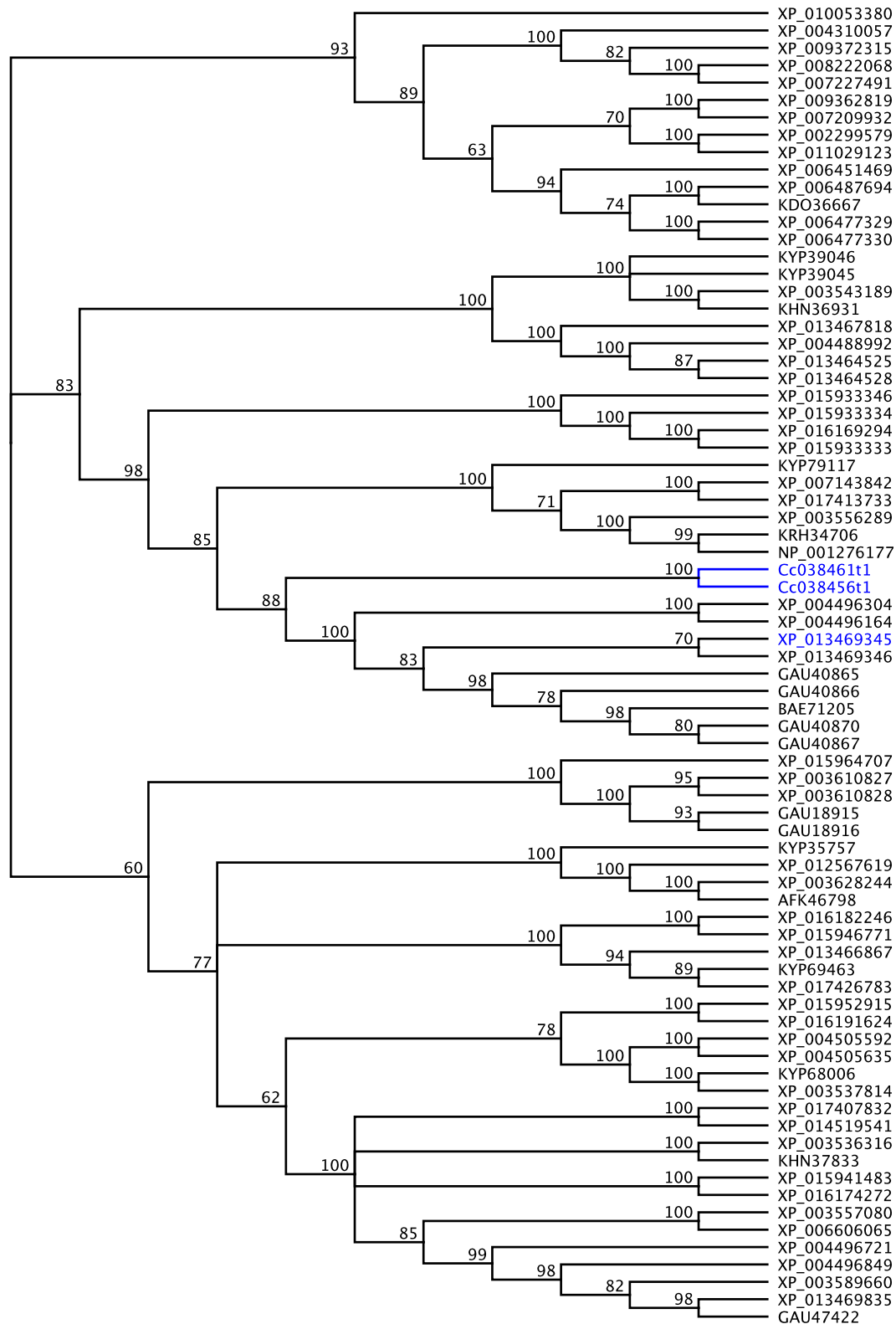
Putative donor sequences: XP\_006597152.1



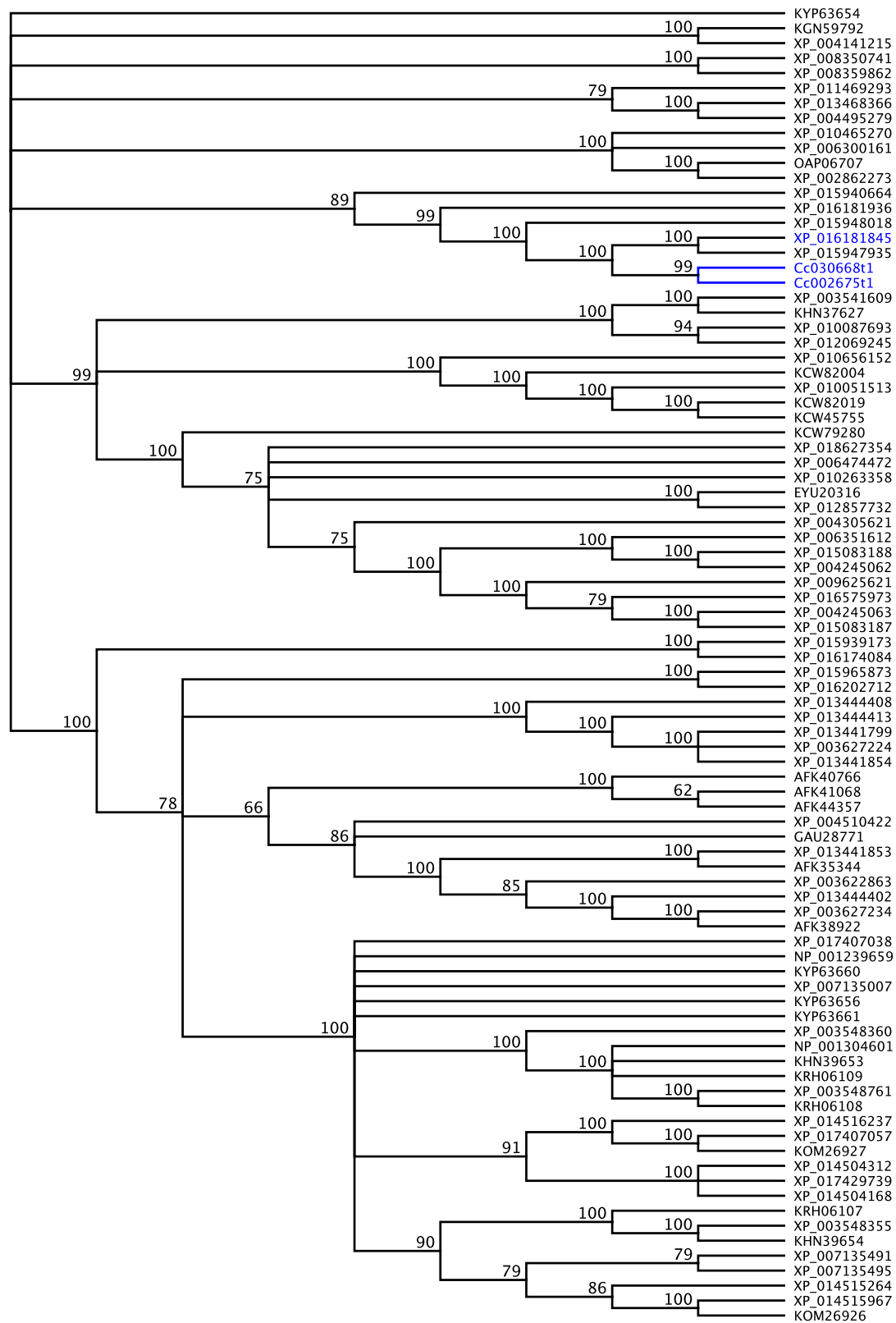
Putative donor sequences: XP\_003540336.1



Putative donor sequences: XP\_013469345.1

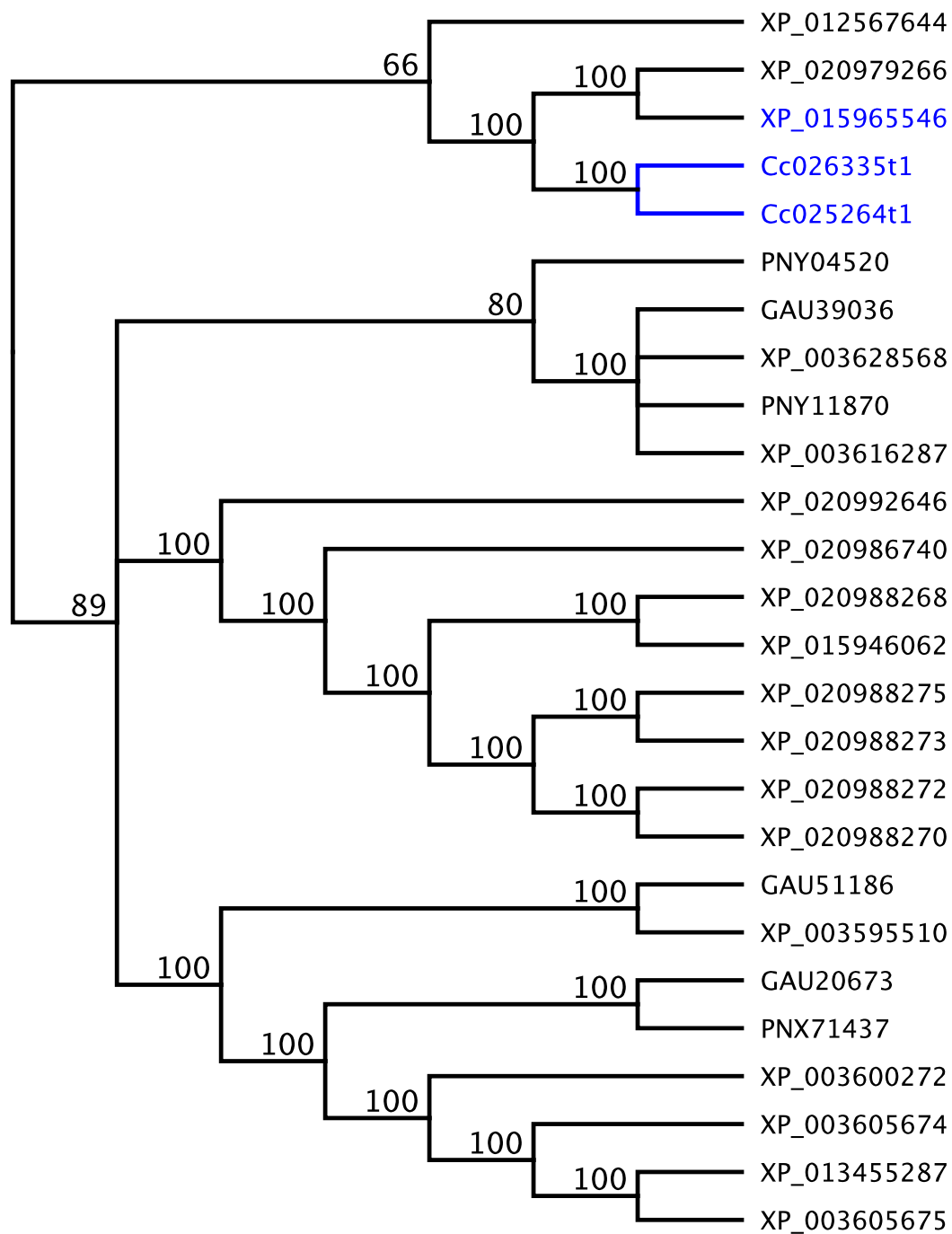


Putative donor sequences: XP\_016181845.1

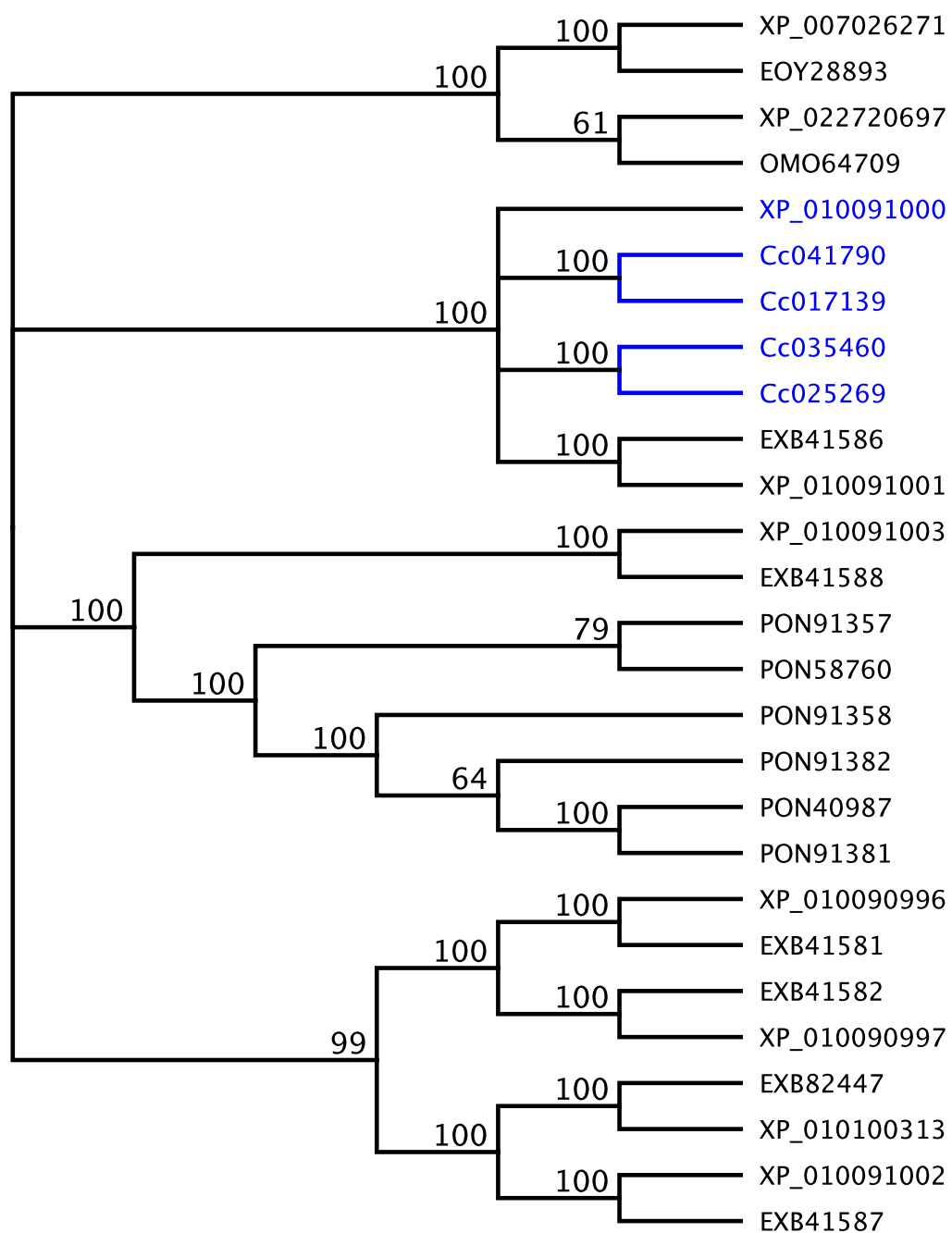




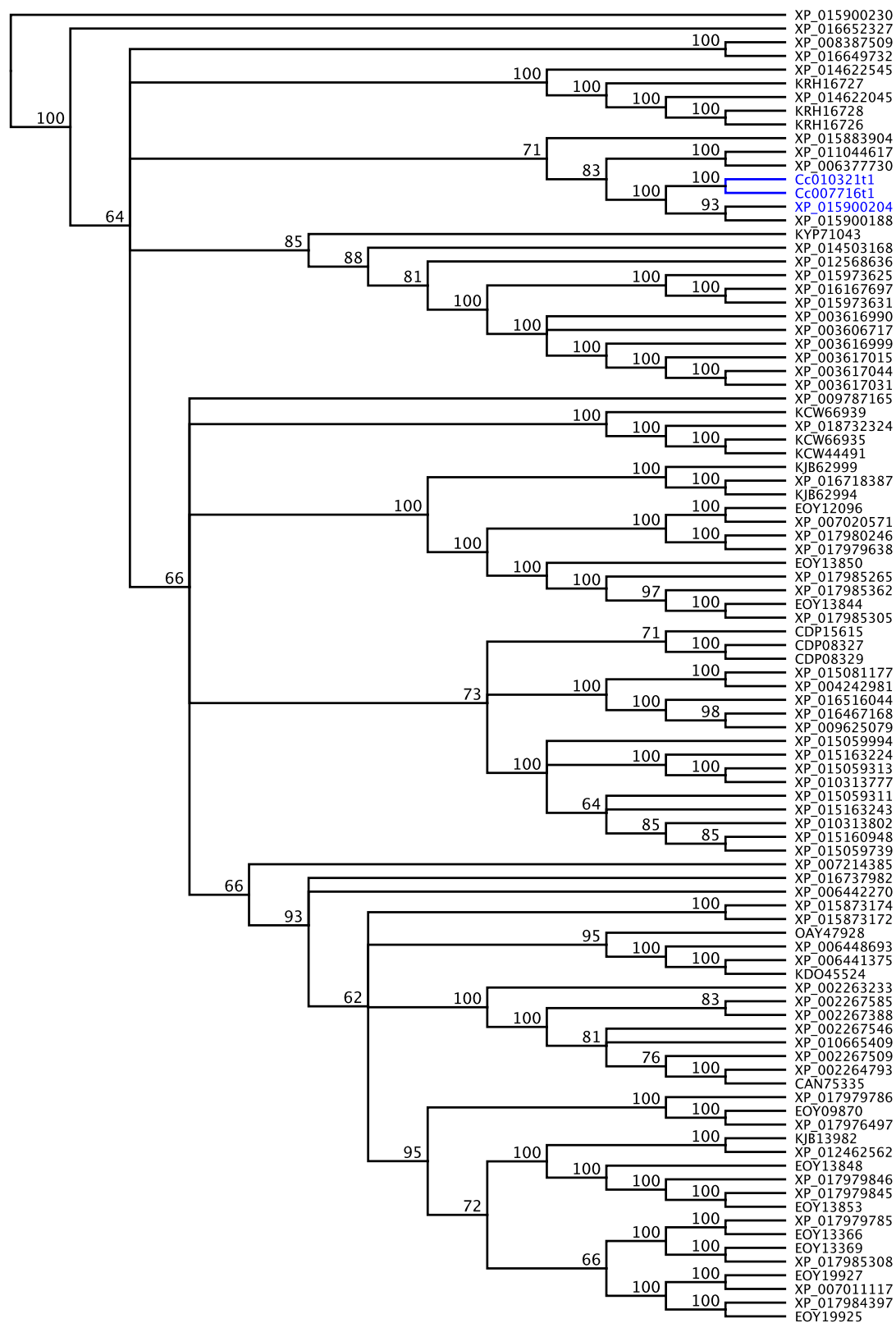
Putative donor sequences: XP\_015965546.1



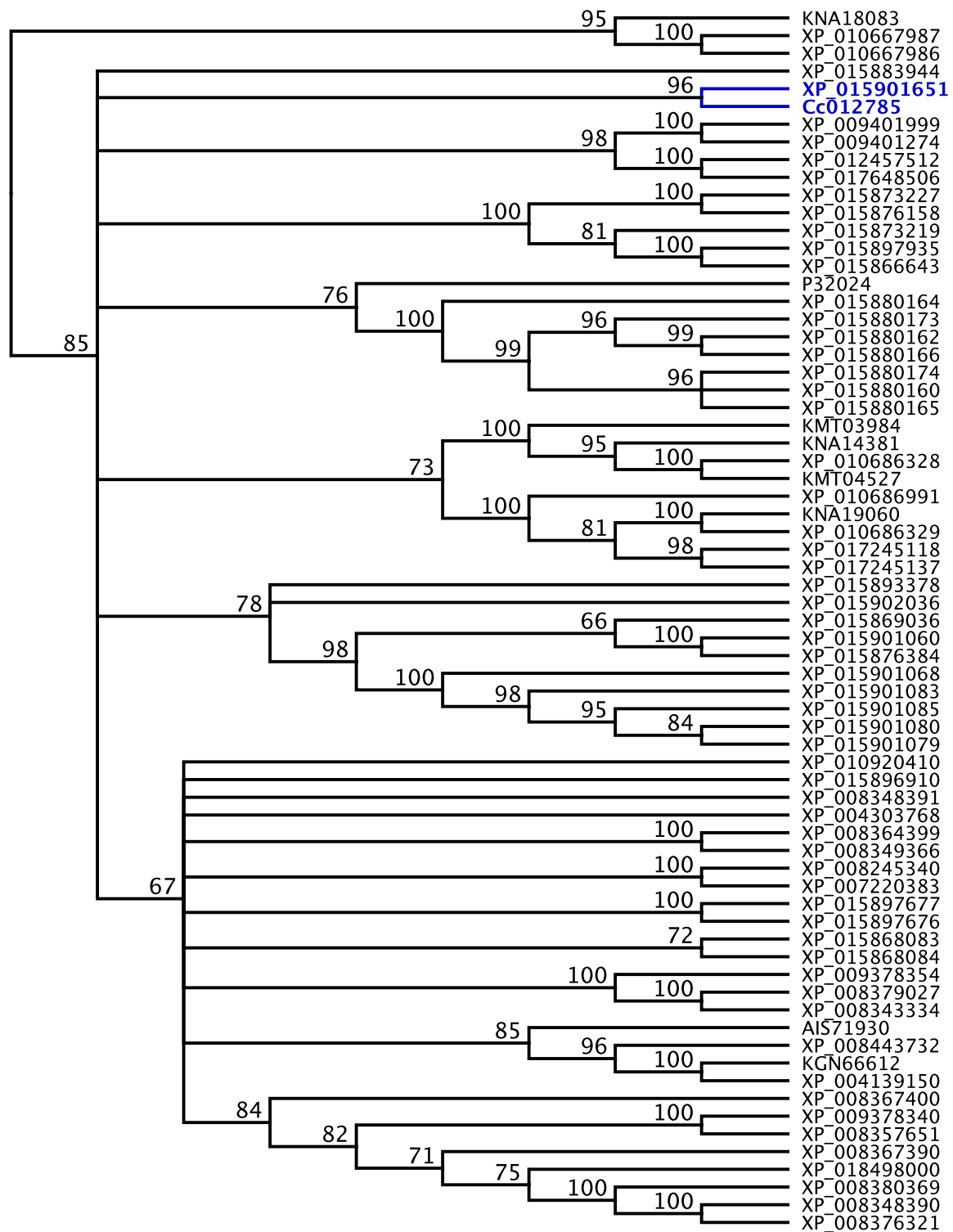
Putative donor sequences: XP\_010091000.1



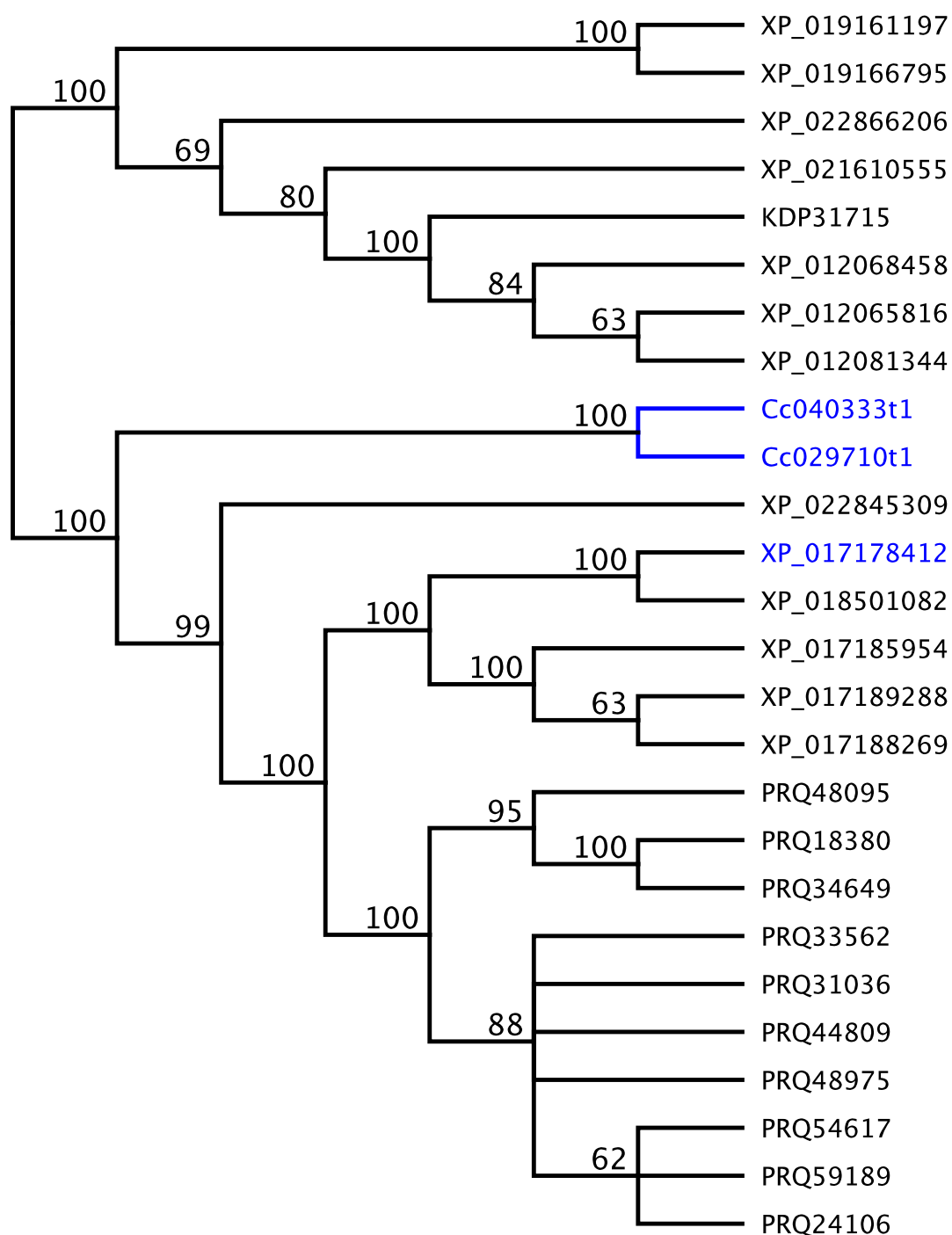
Putative donor sequences: XP\_015900204.1



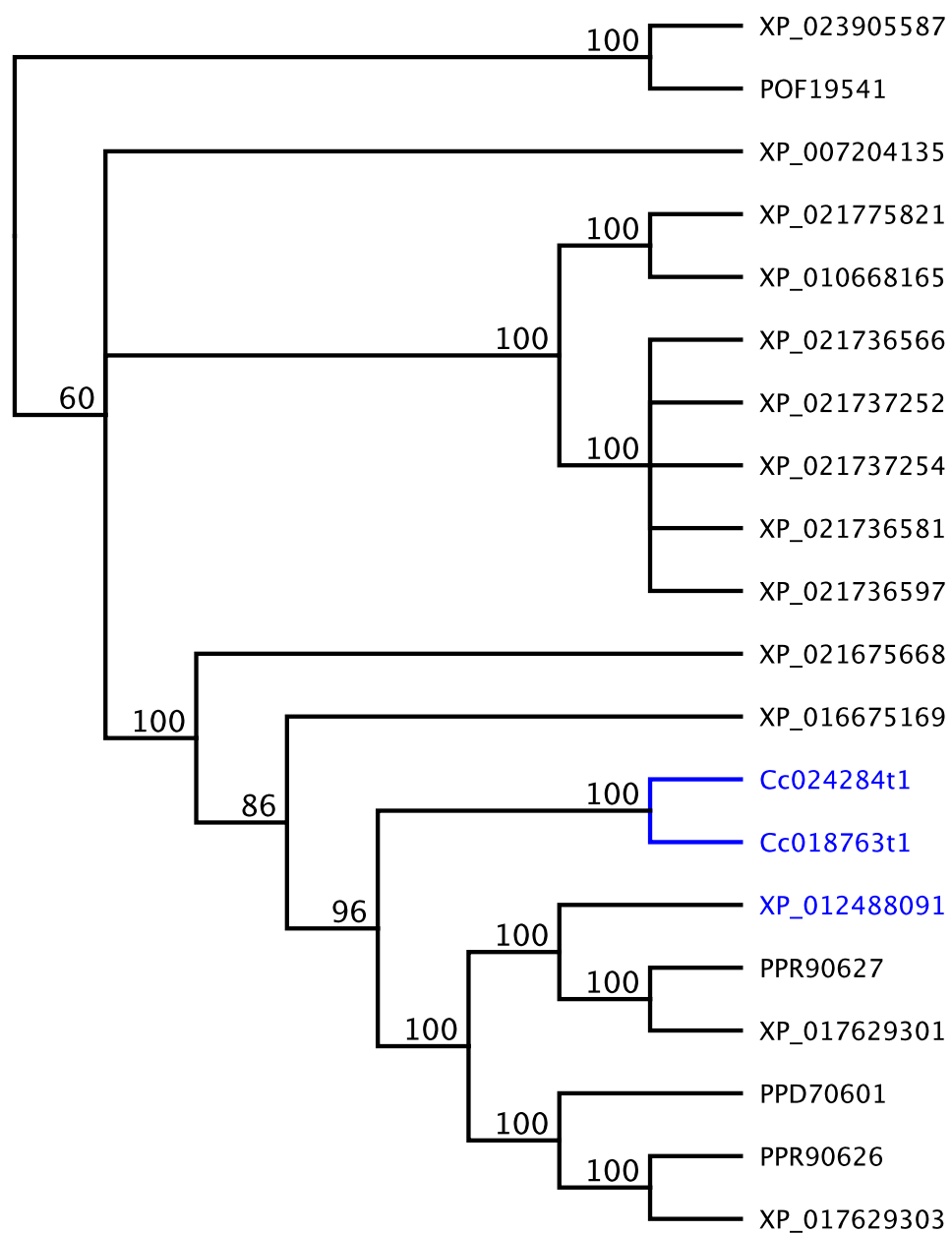
Putative donor sequences: XP\_015901651.1



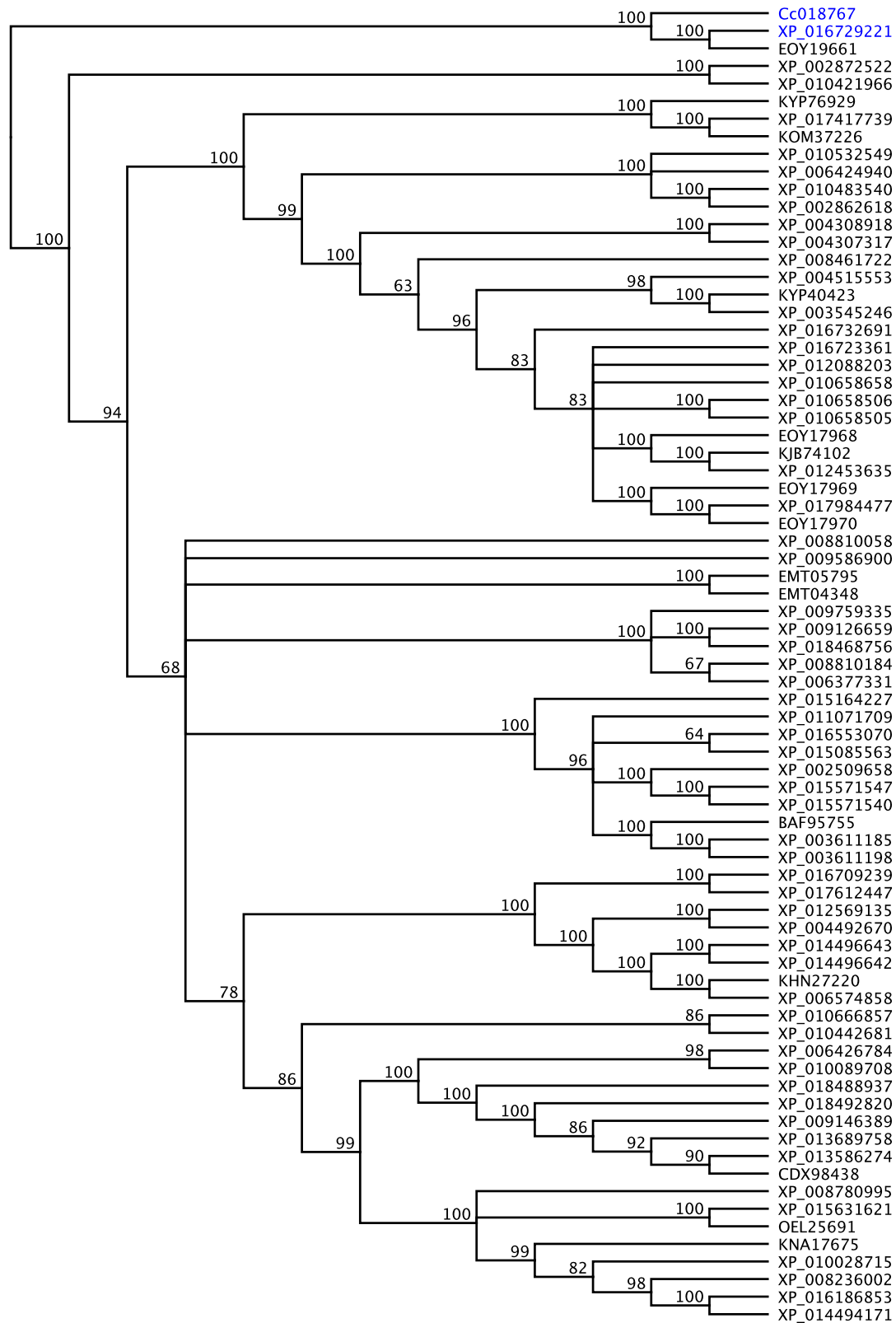
Putative donor sequences: XP\_017178412 (original hit XP\_009364679.1 has been removed from the NCBI database)



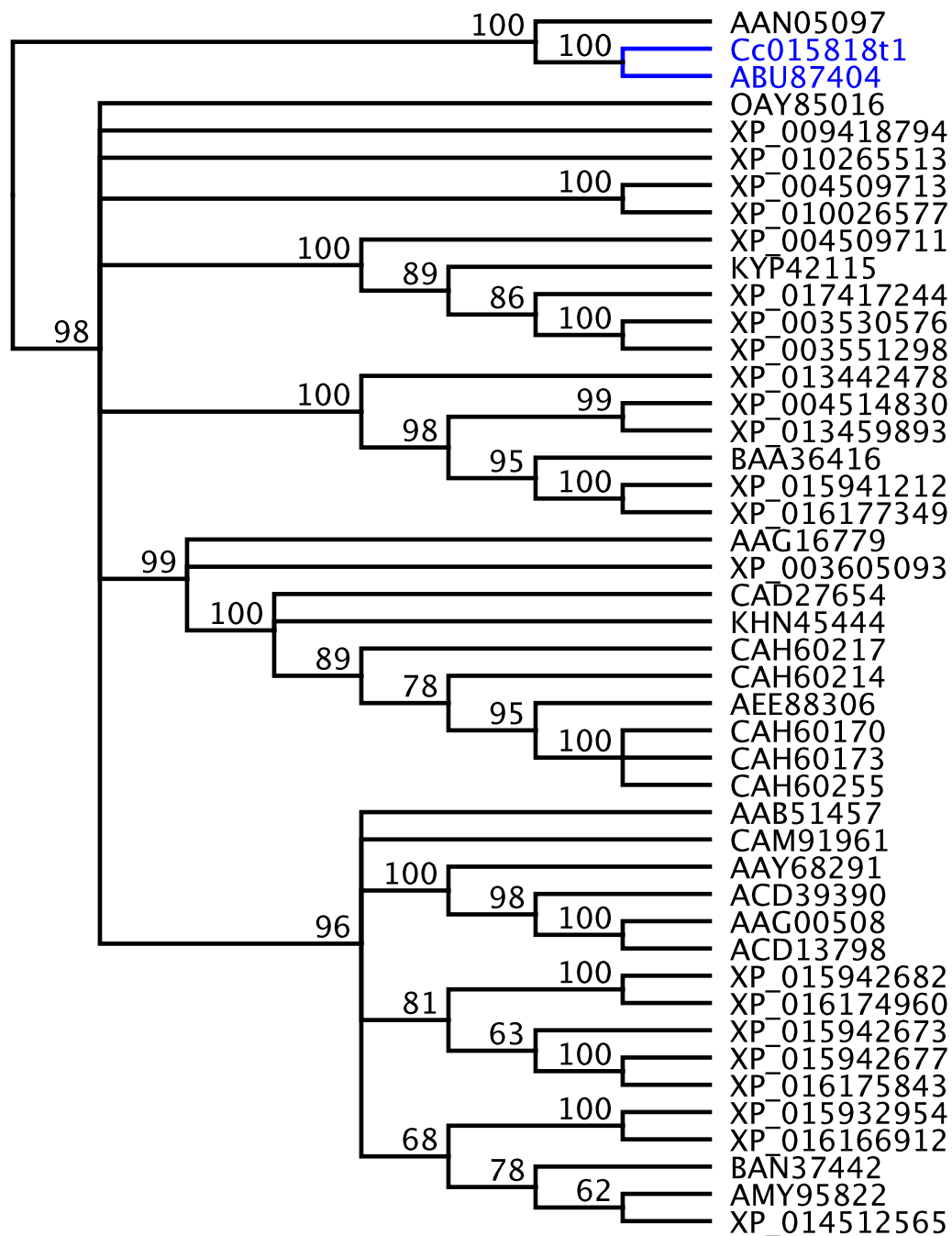
Putative donor sequences: XP\_012488091.1



Putative donor sequences: XP\_016729221.1

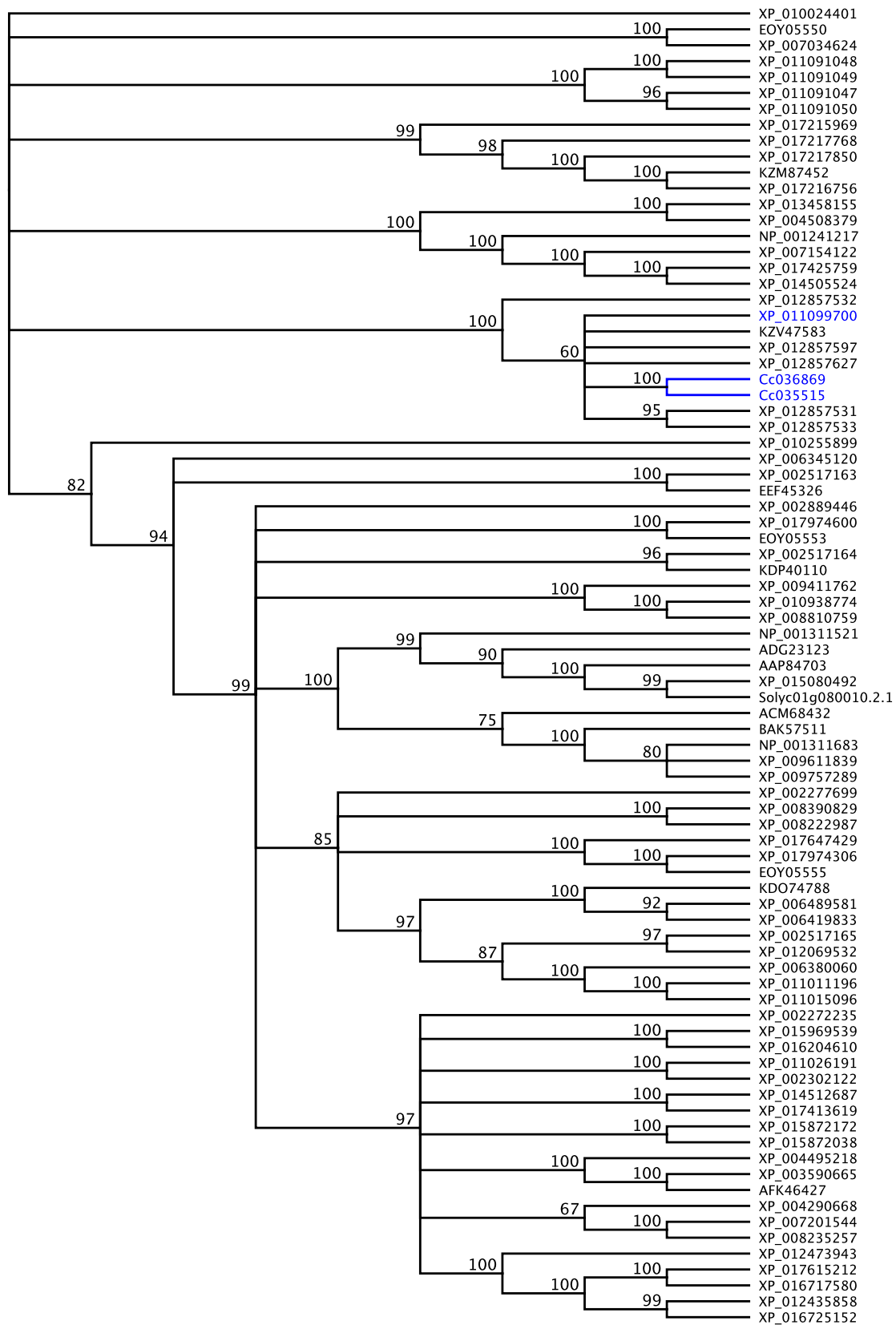


Putative donor sequences: ABU87404.1

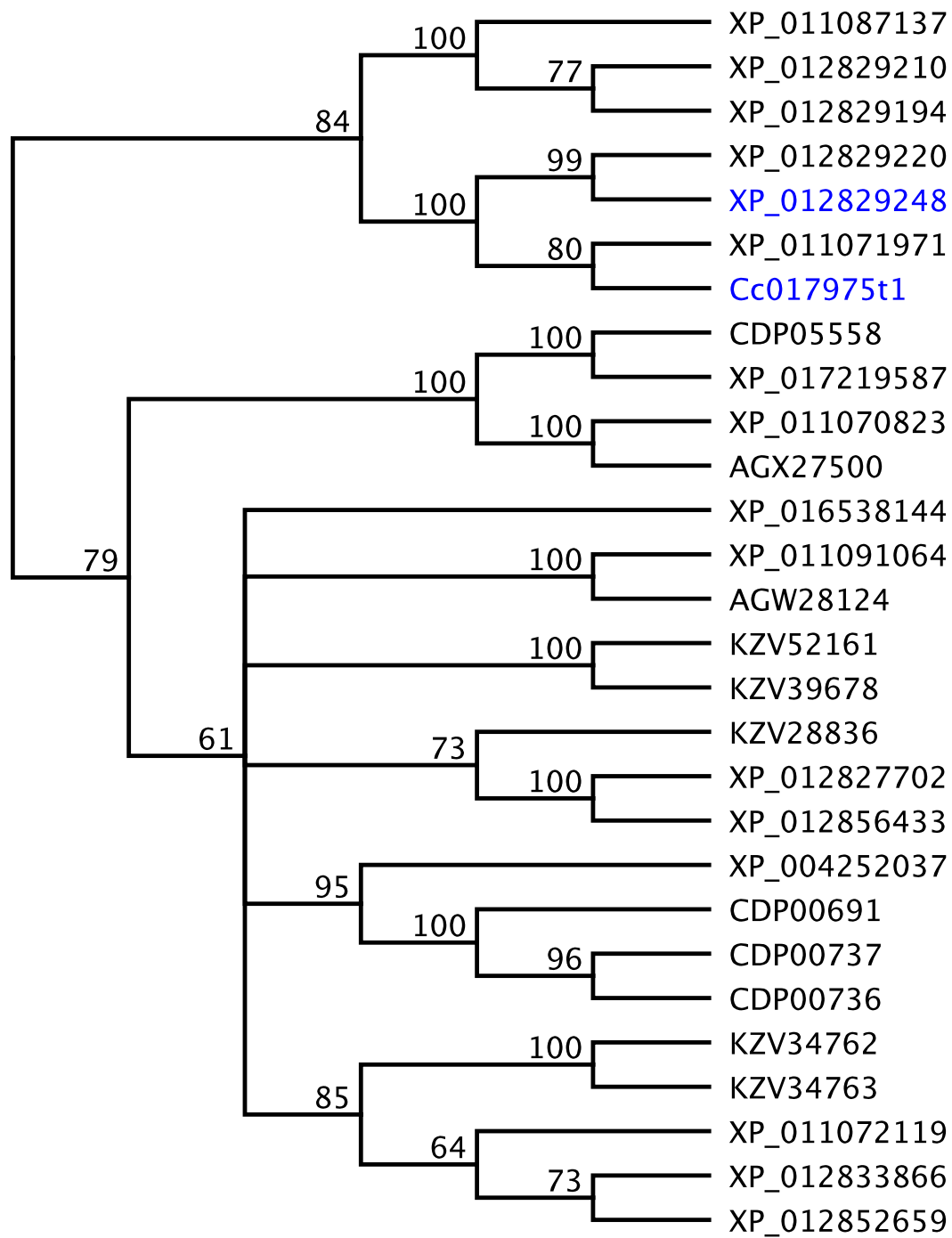




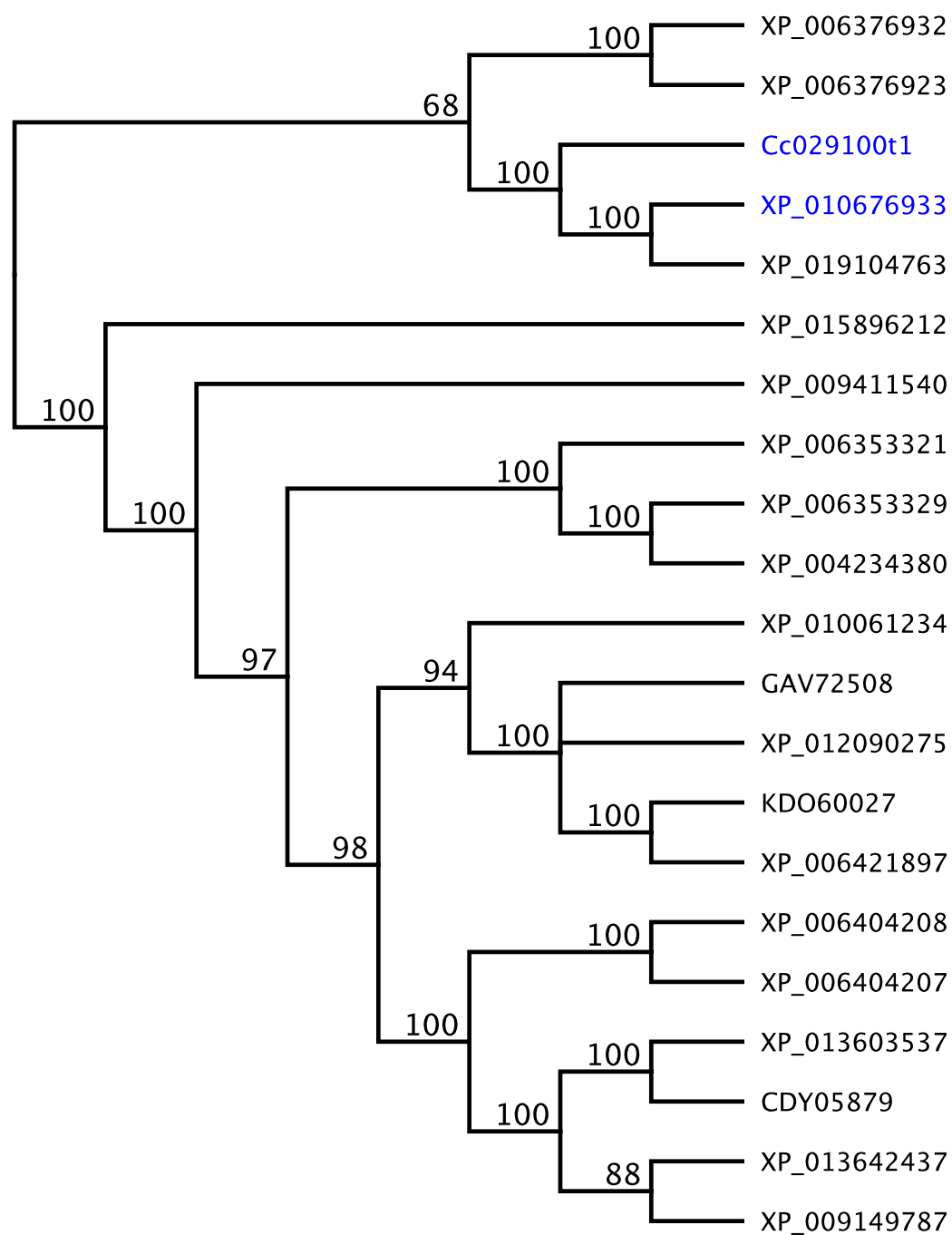
Putative donor sequences: XP\_011099700.1



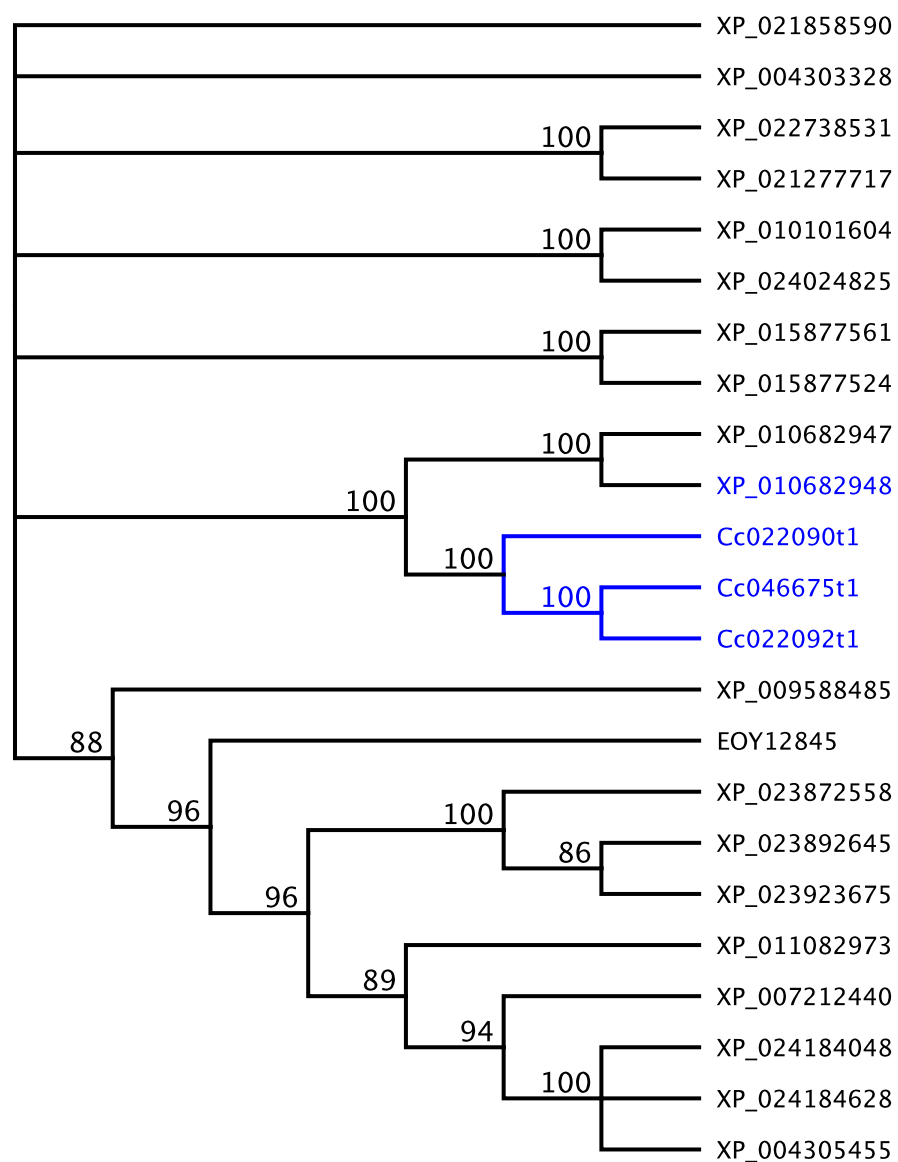
Putative donor sequences: XP\_012829248.1



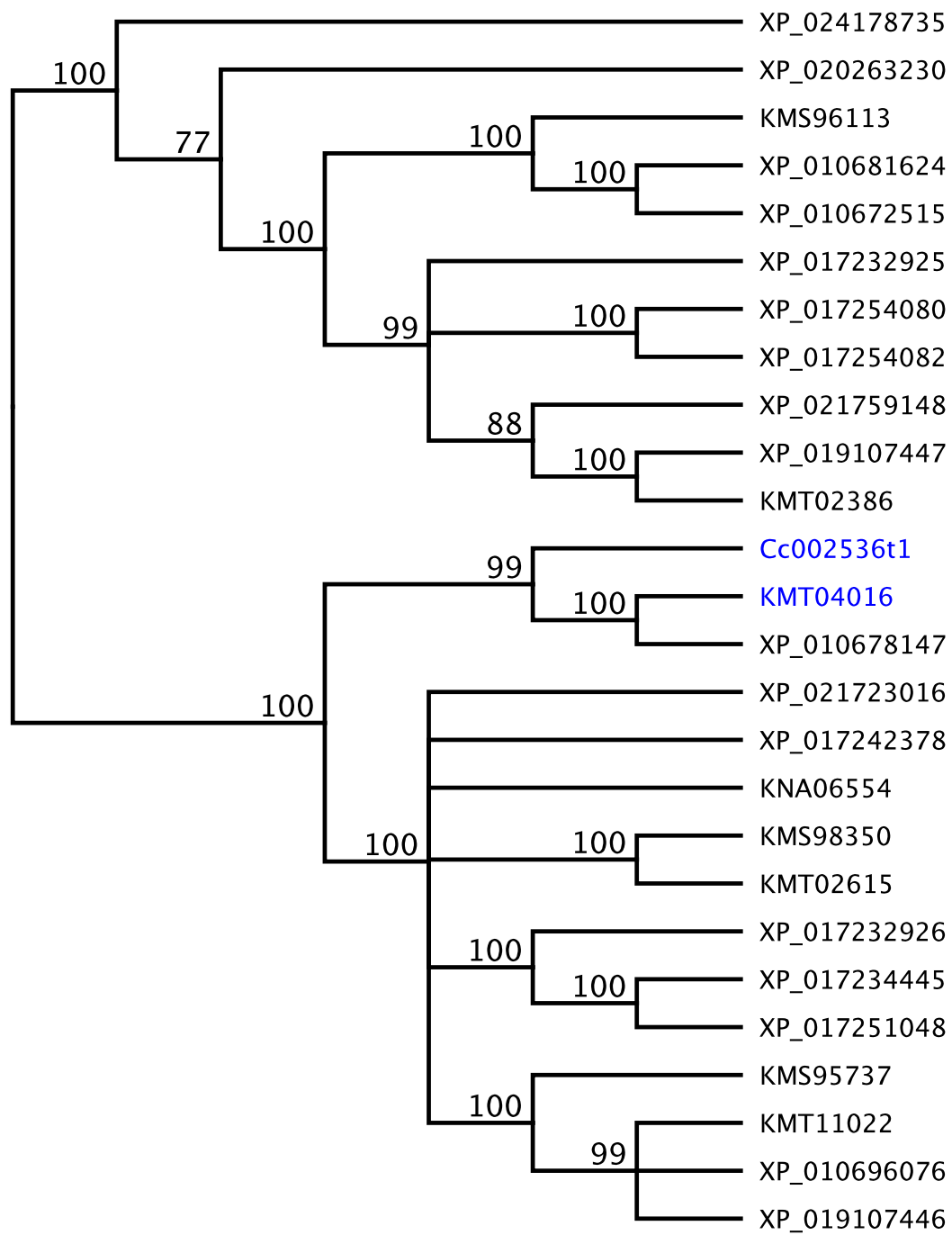
Putative donor sequences: XP\_010676933.1



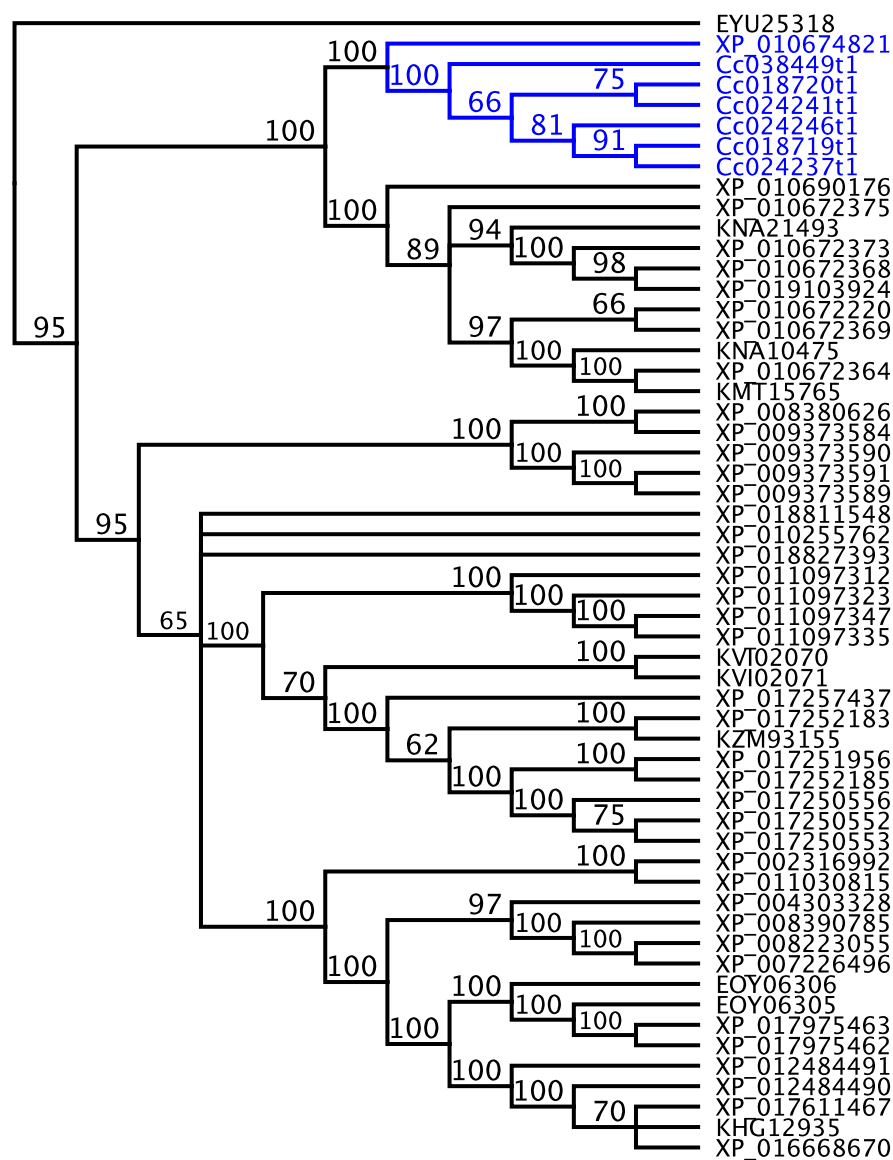
Putative donor sequences: XP\_010682948.1



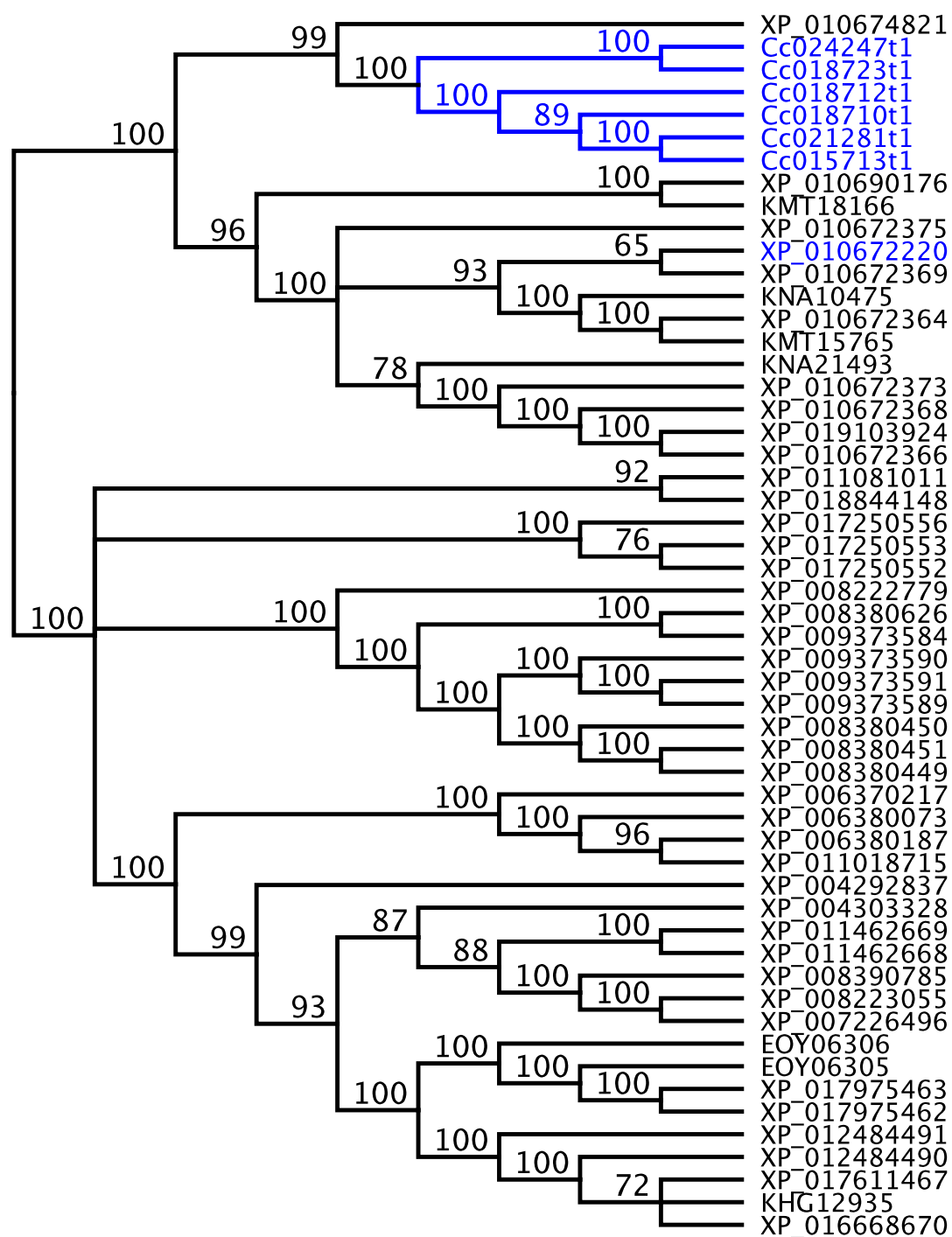
Putative donor sequences: KMT04016



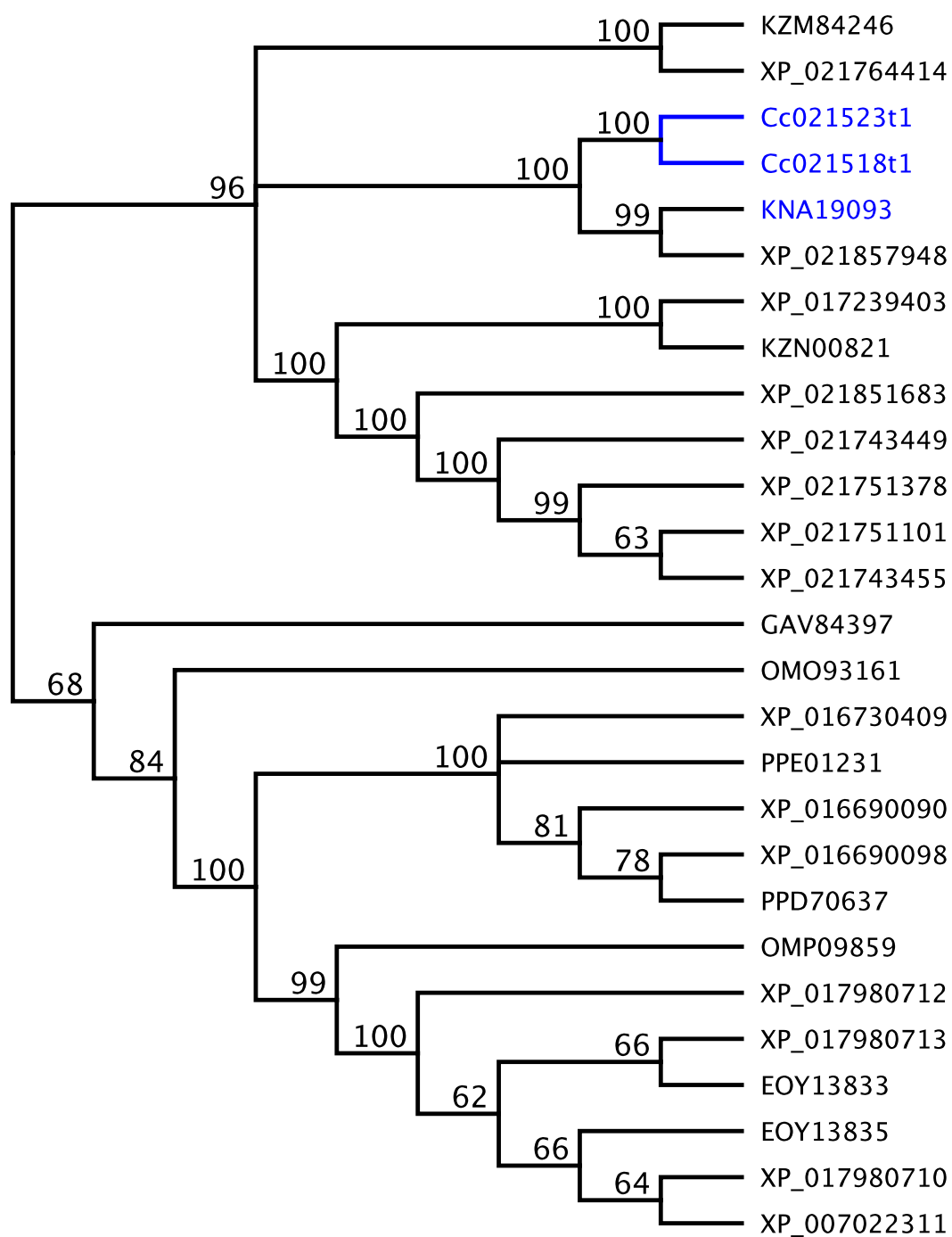
Putative donor sequences: XP\_010674821.1



Putative donor sequences: XP\_010672220.1



Putative donor sequences: KNA19093.1





Putative donor sequences: ACN30700.1

