Reconstruct intermediate sequences

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ID number of each internal node.

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Dowser automatically reconstructs intermediate sequences as part of the getTrees function. Thes are stored in the nodes list contained in each phylo object.
First, collapse internal nodes with identical sequences using the collapseNodes. This will signif
cantly clean up the visualization. You could alternatively run getTrees with collapse=TRUE. Then
visualize the trees using plotTrees but with the node_nums parameter set. This will display the

To obtain the IMGT-gapped sequence for each reconstructed node, specify the clone ID and node number in the getNodeSeq function.

To obtain all observed and reconstructed sequences for all clones, use the getAllSeqs function.

You can save the output of getAllSeqs as a fasta file using the dfToFasta function.

```
library(dowser)

data(ExampleClones)

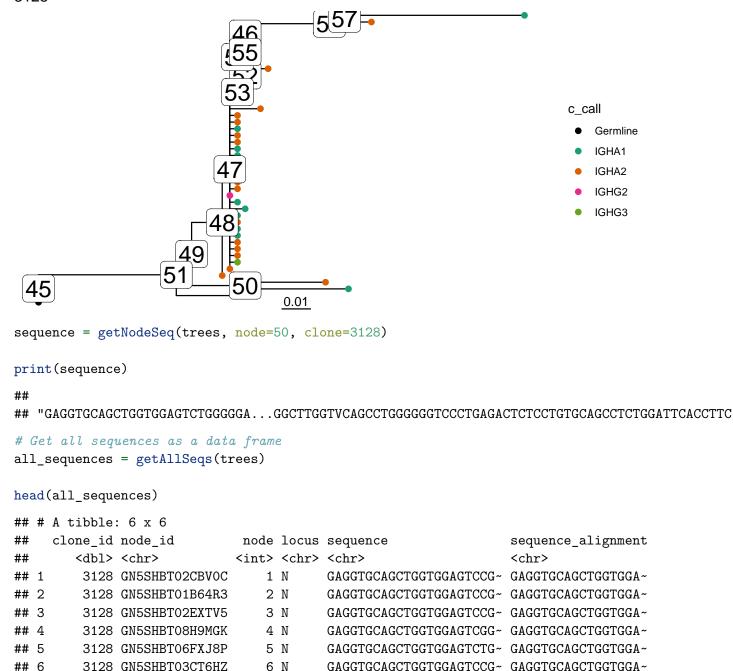
# Collapse nodes with identical sequences. This will

trees = collapseNodes(ExampleClones[1:2,])

# Plot trees with node ID numbers

plots = plotTrees(trees, tips="c_call", tipsize=2, node_nums=TRUE, labelsize=7)

plots[[1]]
```



Saving sequences to a file

The dfToFasta function can be used to save a dataframe of sequences as a fasta file:

```
# Save all sequences as a fasta file
dfToFasta(all_sequences, file="all_sequences.fasta", id="node_id", columns=c("clone_id", "locus")
```