



**Figure S4.** Phylogeny of Semitic languages from multistate encoded data

Our phylogeny of 25 Semitic languages from multistate encoded data is presented with mean divergence times to the right of each node and the 95% credible intervals indicated by blue rectangles. This phylogeny is rooted with Akkadian as supported by log BF test, and reflects the generally accepted Standard model constraints on topology. The scale bar along the bottom of the phylogeny presents time in years before present (ybp) and relative to the common era (common era = CE and before common era = BCE). The 95% credible intervals represent the range of divergence dates at each node that supported by a high posterior probability. This phylogeny is identical to that in figure 2 with all branches with posterior support  $< 0.70$  are collapsed.