



Fig. 2. One of two trees found in the maximum parsimony analysis using *ndhF* and *trnL-F* in Asparagales-wide survey (tree length = 1268, consistency index [CI] = 0.587, retention index [RI] = 0.746). Numbers above branches indicate branch length (ACCTRAN optimization), and numbers below branches indicate jackknife values >50%. Branches drawn with dashed lines were not found in the strict consensus tree. Arrows indicate clades discussed in the text.

three of the four species of *Muilla*, with 100% jackknife support. *Muilla clevelandii* is weakly supported (58% jackknife support) as being sister to the *Muilla-Androstephium* clade and not the *Bloomeria-Triteleia* clade, but this result is not found in the other individual or combined analyses.

*Themidaceae* survey: *rpl16*—The aligned *rpl16* matrix had 1316 total characters with 212 that were potentially parsimony informative (including 35 indels). Figure 5 is one of the constrained 50000 MP trees (tree length = 452, CI = 0.626, RI = 0.865). Four strongly supported monophyletic groups are