

18S primers for bees (7/7/2011)

The following primers were recommended by Dr. John Heraty. He suggested these primers because they span a region of relatively high variation within 18S. These primers have been used in a number of studies of bee higher-level relationships, including Danforth et al. 2006b and Cardinal et al. 2010.

Forward primer

18S-H17F 5' – AAA TTA CCC ACT CCC GGC A – 3'
T_m = 56.7°C, Length = 19

Reverse primer

18S-H35R 5' – TGG TGA GGT TTC CCG TGT T – 3'
T_m = 56.8°C, Length = 19

Conditions

18S-H17F to 18S-H35R

94°C, 1min; 58°C, 1min; 72°C, 1min

This primer pair amplifies an approximately 900bp fragment.