Supplement Methods Variant-rDNA-specific PCR

No SNP was identified to distinguish v-rDNA I and II (i.e. their sequences were identical within the sequenced region of 5'-ETS). They were therefore always assayed together. For a given tissue sample, all PCRs were performed with the same cDNA preparation.

Regular PCR

v-rDNA	primers	(1X) buffer	thermal cycle
Ι	5'-cca gct gtg gtt gag ggc c a	10 mM Tris-HCl, pH 8.8; 1.5 mM	94°C 5 m; {94°C, 30 s; 69°C, 30 s;
	5'-cgc tgg cag aac gag aag a a	MgCl ₂ ; 75 mM KCl	72°C, 40 s} x 35; 72°C, 7 m
П	Same as I	Same as I	Same as I
III	5'-ccg agt ac t tct cct gtc tg	Same as I	94°C 5 m;{94°C, 30 s; 66°C, 30 s;
	5'-gcc acc ggc cac atc cac c a		72°C, 1.5 m} x 35; 72°C, 7 m
IV	5'-cca gct gtg gtt gag ggc c g	Same as I	94°C 5 m; {94°C, 30 s; 65°C, 30 s;
	5'-aag ctc ccc acg gga aag c c		72°C, 1.2 m} x 35; 72°C, 7 m
V	5'-gtg act ttg cgt gtc aga ct	Same as I	94°C 5 m; {94°C, 30 s; 68°C, 30 s;
	5'-aca cac cac cgg cag acg gg		72°C, 1.5 m} x 35; 72°C, 7 m
VI	5'-gtg act ttg cgt gtc aga c t	Same as I	94°C 5 m; {94°C, 30 s; 67°C, 30 s;
	5'-aca cgt gag ggc aca acc g g		72°C, 40 s} x 40; 72°C, 7 m
VII	5'-ctc ttg ttc tgt gtc tgt a t	10 mM Tris-HCl, pH 8.3; 3.5 mM	94°C 5 m; {94°C, 30 s; 62°C, 30 s;
	5'-gat ccc tcc ccg aac tcg g g	MgCl ₂ ; 25 mM KCl	72°C, 1.5 s} x 35; 72°C, 7 m
47S	5'-tgt gac aac tgg gcg ctg tg	Same as I	94°C 5 m; {94°C, 30 s; 66°C, 30 s;
	5'-cac tga gaa aag tgc gcg cg		72°C, 40 s} x 35; 72°C, 7 m

Real Time PCR

v-rDNA	primers	Reaction mix	thermal cycle
Ι	5'-cca gct gtg gtt gag ggc c a 5'-cgc tgg cag aac gag aag a a	10 microliters master mix, 5 microliters of primers and 5 microliters of template	95°C 10 m; {94°C, 10 s; 68°C, 15 s; 72°C, 40 s, read} x 35, 72°C, 10 m
Π	Same as I	Same as I	Same as I
III	5'-ccg agt ac t tot oot gto tg 5'-gcc acc ggc cac atc cac c a	Same as I	95°C 10 m; {94°C, 10 s; 66°C, 15 s; 72°C, 80 s, read} x 45, 72°C, 10 m
IV	5'-cca gct gtg gtt gag ggc c g 5'-aag ctc ccc acg gga aag c c	Same as I	95°C 10 m; {94°C, 10 s; 65°C, 15 s; 72°C, 40 s, read} x 45, 72°C, 10 m
V	5'-gtg act ttg cgt gtc aga ct 5'-aca cac cac cgg cag acg gg	Same as I	95°C 10 m; {94°C, 10 s; 68°C, 15 s; 72°C, 40 s, read} x 35, 72°C, 10 m
VI	5'-gtg act ttg cgt gtc aga c t 5'-aca cgt gag ggc aca acc g g	Same as I	95°C 10 m; {94°C, 10 s; 66°C, 15 s; 72°C, 40 s, read} x 45, 72°C, 10 m
VII	5'-ctc ttg ttc tgt gtc tgt a t 5'-gat ccc tcc ccg aac tcg g g	Same as I	95°C 10 m; {94°C, 10 s; 62°C, 15 s; 72°C, 40 s, read} x 45, 72°C, 10 m
475	5'-tgt gac aac tgg gcg ctg tg 5'-cac tga gaa aag tgc gcg cg	Same as I	95°C 10 m; {94°C, 10 s; 66°C, 15 s; 72°C, 40 s, read} x 35, 72°C, 10 m

The bold letters in primer sequence indicates the SNPs that are specific to the v-rDNA subtype.