

Primer #1

Coralliophila galea voucher RMNH.5004317 12S ribosomal RNA gene, partial sequence; mitochondrial

ACCESSION KY829343

acggtaaaatagttaaggaaaacttttagttcttaaataatattataaagtaaaatttga
atatttttaaaccctcagaagcttattatccgaagctatgaaacccttgagggaaactgg
gattagataccccactattctagggcataaaaactttaccagggtactacgagctatggt
taaaacccaagaacttggcggtatttcagacctcccaggggaacctgtctcataagcga
tgatccgcggttgaacctggccctatttaatttggttgatataccgtcgtcgtcaggtaact
tccaaaagaaaaaagttagcgaatgacagagaagtgtttaacgtcagatcgaggtgcag
ctcatattagggggaggatgggttacaattatgaactataatacgaataagagccagtt
gaaaatctctttgaaggaggacttgggaagtaagaatg

	Sequence (5'->3')	Template strand	Length	Start	Stop	Tm	GC%	Self complementarity	Self 3' comp
Forward primer	AAACCCTTGAGG GAAACTGG	Plus	20	102	121	57.62	50.00	6.00	0.00
Reverse primer	CCAGGTTCAACG CGGATCAT	Minus	20	260	241	60.74	55.00	5.00	3.00
Product length	159								

General properties:

Primer name: forward

Primer sequence: AAACCCTTGAGGGAAACTGG

Sequence length: 20

Base counts: G=6; A=7; T=3; C=4; Other=0;

GC content (%): 50.00

Molecular weight (Daltons): 6175.09

nmol/A260: 4.98

micrograms/A260: 30.72

Basic Tm (degrees C): 52
Salt adjusted Tm (degrees C): 47
Nearest neighbor Tm (degrees C): 63.05

PCR suitability tests (Pass / Warning):

Single base runs: Pass
Dinucleotide base runs: Pass
Length: Pass
Percent GC: Pass
Tm (Nearest neighbor): **Warning: Tm is greater than 58;**
GC clamp: Pass
Self-annealing: Pass
Hairpin formation: Pass

General properties:

Primer name: reverse
Primer sequence: CCAGGTTCAACGCGGATCAT
Sequence length: 20
Base counts: G=5; A=5; T=4; C=6; Other=0;
GC content (%): 55.00
Molecular weight (Daltons): 6102.02
nmol/A260: 5.24
micrograms/A260: 31.95
Basic Tm (degrees C): 54
Salt adjusted Tm (degrees C): 49
Nearest neighbor Tm (degrees C): 65.72

PCR suitability tests (Pass / Warning):

Single base runs: Pass
Dinucleotide base runs: Pass
Length: Pass
Percent GC: Pass
Tm (Nearest neighbor): **Warning: Tm is greater than 58;**
GC clamp: Pass
Self-annealing: Pass
Hairpin formation: Pass
