

TFAM GENOTYPING PROTOCOL

GENE NAME: TFAM (Mitochondrial Transcription Factor A)

PCR PROTOCOL NAME: TFAM

PCR REAGENTS: 10X NEB THERMOPOL PCR BUFFER
 NEB THERMOPOL TAQ POLYMERASE
 dNTPs (1.25 uM Standard Working Concentration)

PRIMERS: TFAM A (20uM Standard Working Concentration)
 TFAM B (20uM Standard Working Concentration)
 TFAM C (20uM Standard Working Concentration)

REACTION VOLUME: 26 ul (25 ul + 1ul DNA)
 Add Master Mix to DNA

Master Mix Calculator

Component (Stock Concentration)			Single Rxn Vol (μL)		Final Concentration		Total Volume (μL)
Buffer Stock	<input type="text" value="10.0"/>	X	2.6		1X		68.6
dATP	<input type="text" value="1.2"/>	mM	4.3	<input type="text" value="200.0"/>	μM		114.4
dCTP	<input type="text" value="0.0"/>	mM	0.0	<input type="text" value="0.0"/>	μM		0.0
dGTP	<input type="text" value="0.0"/>	mM	0.0	<input type="text" value="0.0"/>	μM		0.0
dTTP/dUTP	<input type="text" value="20.0"/>	mM	0.3	<input type="text" value="200.0"/>	μM		6.9
Forward Primer	<input type="text" value="20.0000"/>	μM	0.3	<input type="text" value="200.000"/>	nM		6.9
Reverse Primer	<input type="text" value="20.0000"/>	μM	0.3	<input type="text" value="200.000"/>	nM		6.9
Polymerase	<input type="text" value="5.0000"/>	U/μL	0.2	<input type="text" value="1.2500"/>	U		6.6
MgCl ₂	<input type="text" value="0.0000"/>	mM	0.0	<input type="text" value="0.0000"/>	mM		0.0
Template (Vol)	<input type="text" value="1.0000"/>	μL	1.0	-			26.4
	<input type="text" value="0.0"/>	%	0.0	<input type="text" value="1.0000"/>	%		0.0
	<input type="text" value="0.0000"/>	U/μL	0.0	<input type="text" value="0.0000"/>	U		0.0
	<input type="text" value="0.0000"/>	μM	0.0	<input type="text" value="0.0000"/>	nM		0.0
	<input type="text" value="0.0000"/>	U/μL	0.0	<input type="text" value="0.0000"/>	U		0.0
Distilled Water	-		17.0	-			449.8
Totals:			26.0				686.4

Misc Parameters

Single Rxn Volume (μL):

Total Reactions:

Pipetting Excess (%):

Protocols

Protocol:

Protocol Name:

Comments:

