



Document Number:	SASoM/EQUIP/031.v2
Title:	Programming the Corbett Rota Gene
Version:	v2
Author:	Peter Mullen

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Valid to:	31/12/2022

SOP History		
Number	Date	Reason for Change
v1	01/01/2013	Original
V2	01/01/2018	Update

1.0 Purpose –

The purpose of this SOP is to outline the principles involved in the programming of the Corbett Rota Gene in Laboratory 248 at the St Andrews School of Medicine (SASoM).

2.0 Scope –

This SOP applies to the programming the Corbett Rota Gene within the SASoM.

3.0 Responsibilities –

It is the responsibility of all users of the Corbett Rota Gene within the SASoM to comply with this SOP.

4.0 Procedure –

The easiest way to set up a reaction is to edit an already existing protocol.

Open an existing run from the desktop, select

FILE NEW NEW EXPERIMENT

This opens EXPERIMENT WIZARD, which will guide you through setting up a run.

Tick the box to confirm that the locking ring is in place.



Equipment Operation Procedure

Unless there is a particular need to customise the instrument settings choose the following values:

Rotor: 72 well
Sample layout: A1, A2, A3....

Click on NEXT icon to move to next setup page

This page allows selection of specific reaction conditions for RT-PCR / PCR. Click on the EDIT PROFILE key under the reaction profile screen to alter the thermal cycling conditions as appropriate.

Normally fluorescence data is acquired at the end of the 72°C elongation step in each cycle. In this page the acquisition channel(s) are set by clicking on the 72°C segment of the cycling profile. Clicking on the ACQUIRING TO CYCLING A icon will display all the available channels.

Channels: For SYBR green either the SYBR, FAM/SYBR (or both) channels may be used.

Gain: This allows amplification of detected signal.
A starting value of 7 – 9 is recommended.

When the reaction parameters are set click NEXT icon.

Clicking START RUN will bring up a prompt to select an appropriate filename and folder for your experiment. Fill in identifier and press SAVE.

5.0 Training –

All users have to be trained before using the Instrument by a designated person.

6.0 Related documents –

- 6.1 Equipment manual
- 6.2 SOP SASoM/EQUIP/017
Use and Maintenance of the Corbett Rota Gene



7.0 Approval and sign off –

Author:

Name: Peter Mullen

Position: Research Fellow

Signature: _____ Date: _____

Management Approval:

Name: Mary Wilson

Position: Laboratory Manager

Signature: _____ Date: _____

QA release by:

Name: Alex MacLellan

Position: QA Manager

Signature: _____ Date: _____

Control