QIAgility assay setup protocol using the Rotor-Gene SYBR Green PCR Demo Kit

Q Protocol description

- Standard human genomic DNA (gDNA) solutions (n=5) of defined copy number analyzed in quadruplicate
- Copy numbers of gDNA standards = 125, 250, 500, 1000, and 2000
- Genomic DNA solutions of unknown concentration (n=2) analyzed in replicates of 24
- C_T values obtained from the standard gDNA solutions used to generate a standard curve
- QuantiTect Primer Assay, specific for the human G protein-coupled estrogen receptor 1 (GPER) gene

Assay setup

Liquid	Volume (µl)
Master mix	20
Sample	5
Reaction	25

Liquid	Number
Samples	5 standards 2 unknowns
Targets	1
Replicates (standards)	4
Replicates (unknowns)	24
Non-template controls	4
Reactions	72

Worktable setup

Liquid	Plates/tubes
Samples	Screw cap 1.5 ml
Reactions	Strip Tubes and Caps, 0.1 ml
Reagent	Use tube supplied with kit
Primer solution	Use tube supplied with kit
RNase-Free Water	Use tubes supplied with kit
Final master mixes	5 ml Tube; Graduated, Flat-Base

For detailed Q Protocol and worktable setup information, see the pre-run report and the *Rotor-Gene SYBR Green PCR Demo Kit Handbook*.

Rotor-Gene SYBR Green PCR Demo Kit information

Product	Contents	Cat. no.
Rotor-Gene SYBR Green PCR Demo Kit (80)*	For 80 reactions: 2x Rotor-Gene SYBR Green PCR Master Mix, 10x QuantiTect Primer Assay for GPER, Genomic DNA standards and unknowns, Buffer TE, RNase-Free Water	204001

*Visit www.qiagen.com for more detailed information about the Rotor-Gene SYBR Green PCR Demo Kit.

Required QIAgility accessories

Product	Contents	Cat. no.
Adapter 72x0.1 ml Strip Tubes	For holding 72 x 0.1 ml Strip Tubes; tubes are secured with a locking mechanism	9018917

Required QIAgility consumables

Product	Contents	Cat. no.
Strip Tubes and Caps, 0.1 ml (250)*	250 strips of 4 tubes and caps for 1000 reactions	981103
5 ml Tube; Graduated, Flat-Base	Bag of 50; suitable for holding diluent and master mix on the instrument worktable; graduated, flat-base design with a tapered internal profile for minimum dead volume; screw cap included	990552
50 µl Conductive Filtered Tips	Box of 5; carbon-impregnated conductive tips for use with liquid-level sensing; tips contain high-set filters; for use with Adapter, Tip Rack Holder (cat. no. 9018949)	990512
200 µl Conductive Filtered Tips	Box of 5; carbon-impregnated conductive tips for use with liquid-level sensing; tips contain high-set filters; for use with Adapter, Tip Rack Holder (cat. no. 9018949)	990522
Tip Receptacle Box	Box of 10; waste collection box to fit tip ejector chute; fold-up design with clear plastic viewing window	990550
5 ml Tube; Graduated, Flat-Base	Bag of 50; suitable for holding diluent on the instrument worktable; graduated, flat-base design with a tapered internal profile for minimum dead volume; screw cap included	990552

* Available in different pack sizes, visit www.qiagen.com for more information.