

ExProfile[™] Human Thyroid Cancer Gene qPCR Array

For focused group profiling of human thyroid cancer related genes expression

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Cat. No. QG080-A (1 x 96-well plate, Format A)
Cat. No. QG080-B (1 x 96-well plate, Format B)
Cat. No. QG080-C (1 x 96-well plate, Format C)
Cat. No. QG080-D (1 x 96-well plate, Format D)
Cat. No. QG080-E (1 x 96-well plate, Format E)
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Available as 1 set or 6 sets. Each set contains 84 unique gene primers deposited in one 96-well plate.

Introduction

The ExProfile human thyroid cancer gene qPCR array profiles 84 human genes to aberrantly expressed human genes involved in human thyroid cancer. These genes are carefully chosen for their close cancer correlation based on a thorough literature search of peer-reviewed publications. Abnormal gene expression is often observed in cancer development and progression. The ExPofile human thyroid cancer gene array allows researchers to study the cancer-related genes to gain understanding of their roles in thyroid cancer pathogenesis.

QG080 plate 01: 84 unique gene PCR primer pairs

Shipping and storage condition

Shipped at room temperate
Stable for at least 6 months when stored at -20 ℃

Array format

GeneCopoeia provides five qPCR array formats (A, B, C, D, and E) suitable for use with the following real-time cyclers.

Important note: Upon receiving, please check to make sure that the correct array format was ordered to ensure the compatibility with your qPCR instrument.

Plate format	Instrument provider	qPCR instrument model
A (96-well)	Applied Biosystems	5700, 7000, 7300, 7500, 7700, 7900HT (Standard 96-well block), ViiA TM 7 (Standard 96-well block)
B (96-well)	Applied Biosystems	7500 (Fast block), 7900HT (Fast block), StepOnePlus TM , ViiA TM 7 (Fast block)
C (96-well)	Bio-Rad Laboratories	iCycler iQ [®] , MyiQ™, iQ™5
D (96-well)	Bio-Rad Laboratories	CFX96™, DNA Engine Opticon™, DNA Engine Opticon 2™, Chromo4™
E (96-well)	Roche Applied Science	LightCycler® 480 (96-well block)

Quality Control

- Each pair of primers in the ExProfile gene qPCR array has been experimentally validated to yield a single dissociation curve peak and to generate a single amplicon of the correct size for the targeted gene.
- 2. The positive PCR controls (PCR) have been verified to amplify a single amplicon of the correct size with Ct values around 20±2.
- The Spike-in reverse transcription controls (RT) have been verified to amplify a single amplicon of the correct size with Ct values around 20±3.
- 4. $R^2 > 0.99$ was observed for high inter/ intra-array reproducibility.

Materials required but not provided

All-in-OneTM First-Strand cDNA Synthesis Kit
All-in-OneTM qPCR Mix
Total RNA extraction kit (RNAzol® RT RNA extraction reagent is recommended)
DNase/RNase free tips, PCR reaction tubes, 1.5 ml microcentrifuge tubes
5 ml and 10 ml graduated pipettes, beakers, flasks, and cylinders
10 µl to 1,000 µl adjustable single channel micropipettes with disposable tips
5 µl to 20 µl adjustable multichannel micropipette, disposable tips, and reservoir qPCR instrument, compatible with gene qPCR arrays ordered

Array layout

	1	2	3	4	5	6	7	8	9	10	11	12
Α	BRAF	RET	BCR	NRAS	KRAS	PIK3CA	HRAS	XRCC3	XRCC1	TP53	AKT1	HLA-DRB1
В	TSHR	TITF1	THRA	PTPRJ	MLH1	NAT2	FOXE1	GST01	CCDC6	XRCC4	VEGFA	TG
C	RAF1	NTRK1	MYC	MSH3	LIG4	GNB3	EGFR	CYP1A1	SDHD	GFRA1	FGFR1	DU0X1
D	THRAP1	CDYL	TRIP11	TRIP12	STK17A	STK17B	AIP	GPR98	NCOA4	CXCR4	PAX8	MAP3K12
E	XRCC5	XRCC2	WT1	VWF	VTN	VDR	UCP1	TYK2	TRAF6	TPO	TCF12	TCEB3
F	STAT3	STAT2	STAT1	SRC	SMO	SIAH2	SEL1L	SDHC	SDHB	CCL5	S100A10	BCL2
G	RASA1	RAP1A	RAD52	PTHLH	BAD	PTEN	PTCH1	MAPK1	ChGn	PRKAR1A	PPARG	PMS2
Н	HGDC	HGDC	GAPDH	ACTB	B2M	RPL13A	HPRT1	RN18S1	RT	RT	PCR	PCR

Figure 1. Illustration of QG080 plate 01

- **Gene primer pairs**: 84 wells (A row to G row) are designated for a real-time PCR assay for genes (see the primer list).
- **HK1-6**: Six pre-deposited housekeeping gene (HK1-6) primer pairs, which can be used as endogenous positive controls as well as for array normalization.
- **GDC**: Genomic DNA controls, which can be used to specifically detect genomic DNA contamination with a high level of sensitivity.
- RT: Spike-in reverse transcription controls, which can be used to monitor the efficiency of the RT reactions. These pre-deposited primer pairs specifically amplify the cDNA template reversed transcribed from the spike-in control RNA in the sample.
- PCR: Positive PCR controls, which are used to verify the PCR efficiency by amplifying the predeposited DNA template with its specific pre-deposited primer pairs.

Gene Primer List

Plate Position		Catalog No. of Primer	Accession No. of Gene	Symbol
QG080-01	A01	HQP017733	NM 004333	BRAF
QG080-01	A02	HQP054045	BC004257	RET
QG080-01	A03	HQP016418	NM 004327	BCR
QG080-01	A04	HQP011914	NM 002524	NRAS
QG080-01	A05	HQP010133	NM 004985	KRAS
QG080-01	A06	HQP013150	NM 006218	PIK3CA
QG080-01	A07	HQP009036	NM 005343	HRAS
QG080-01	A08	HQP018564	NM 005432	XRCC3
QG080-01	A09	HQP018562	NM 006297	XRCC1
QG080-01	A10	HQP018175	NM 000546	TP53
QG080-01	A11	HQP004991	NM_001014431	AKT1
QG080-01	A12	HQP054047	BC008403	HLA-DRB1
QG080-01	B01	HQP018271	NM_000369	TSHR
QG080-01	B02	HQP018097	NM_003317	TITF1
QG080-01	B03	HQP018077	NM_003250	THRA
QG080-01	B04	HQP015925	NM_002843	PTPRJ
QG080-01	B05	HQP011235	NM_000249	MLH1
QG080-01	B06	HQP001136	NM_000015	NAT2
QG080-01	B07	HQP005704	NM_004473	FOXE1
QG080-01	B08	HQP022764	NM_004832	GSTO1
QG080-01	B09	HQP019650	NM_005436	CCDC6
QG080-01	B10	HQP018565	NM_003401	XRCC4
QG080-01	B11	HQP018475	NM_001025366	VEGFA
QG080-01	B12	HQP018042	NM_003235	TG
QG080-01	C01	HQP016088	NM_002880	RAF1
QG080-01	C02	HQP011938	NM_001007792	NTRK1
QG080-01	C03	HQP011597	NM_002467	MYC
QG080-01	C04	HQP011492	NM_002439	MSH3
QG080-01	C05	HQP010613	NM_002312	LIG4
QG080-01	C06	HQP007767	NM_002075	GNB3
QG080-01	C07	HQP004605	NM_005228	EGFR
QG080-01	C08	HQP003772	NM_000499	CYP1A1
QG080-01	C09	HQP016706	NM_003002	SDHD
QG080-01	C10	HQP007370	NM_005264	GFRA1
QG080-01	C11	HQP054052	BC015035	FGFR1
QG080-01	C12	HQP054035	NM_175940	DUOX1
QG080-01	D01	HQP023420	NM_005121	THRAP1
QG080-01	D02	HQP022741	NM_170751	CDYL
QG080-01	D03	HQP022530	NM_004239	TRIP11
QG080-01	D04	HQP022528	NM_004238	TRIP12
QG080-01	D05	HQP022428	NM_004760	STK17A
QG080-01	D06	HQP022427	NM_004226	STK17B
QG080-01	D07	HQP021961	NM_003977	AIP

Product Data Sheet

GG080-01 D08 HQP020440 NM 032119 GPR88 GG080-01 D09 HQP018661 NM 005437 NCOA4 GG080-01 D10 HQP018802 NM 001008540 CXCR4 GG080-01 D11 HQP018794 NM 003466 PAX8 GG080-01 E01 HQP018568 NM 005301 MAP3K12 GG080-01 E02 HQP018568 NM 005431 XRCC2 GG080-01 E02 HQP018563 NM 000378 WT1 GG080-01 E04 HQP018564 NM 000378 WT1 GG080-01 E04 HQP018504 NM 000552 VWF GG080-01 E05 HQP018504 NM 000538 VTN GG080-01 E06 HQP018402 NM 000376 VDR GG080-01 E06 HQP018402 NM 003331 TYK2 GG080-01 E08 HQP018340 NM 003331 TYK2 GG080-01 E09 HQP018214 NM 004620 TRAF6 GG080-01 E10					
QG080-01 D10 HQP018802 NM_001008540 CXCR4 QG080-01 D11 HQP018794 NM_003466 PAX8 QG080-01 D12 HQP018750 NM_00301 MAP38112 QG080-01 E01 HQP018568 NM_021141 XRCC5 QG080-01 E02 HQP018568 NM_005431 XRCC2 QG080-01 E04 HQP018546 NM_000578 WT1 QG080-01 E04 HQP018504 NM_000582 VWF QG080-01 E05 HQP018502 NM_000638 VTN QG080-01 E06 HQP018402 NM_000376 VDR QG080-01 E07 HQP018402 NM_021833 UCP1 QG080-01 E09 HQP018237 NM_004620 TRAF6 QG080-01 E09 HQP018237 NM_003474 TPO QG080-01 E10 HQP018237 NM_003474 TPO QG080-01 E10 HQP018237 NM_003474 TPO QG080-01 E11 <td>QG080-01</td> <td>D08</td> <td>HQP020440</td> <td>NM_032119</td> <td>GPR98</td>	QG080-01	D08	HQP020440	NM_032119	GPR98
QG080-01 D11 HQP018794 NM_003466 PAX8 QG080-01 D12 HQP018750 NM_006301 MAP3K12 QG080-01 E01 HQP018563 NM_005431 XRCC2 QG080-01 E02 HQP018563 NM_005431 XRCC2 QG080-01 E03 HQP018504 NM_000552 VWF QG080-01 E05 HQP018504 NM_000552 VWF QG080-01 E05 HQP018502 NM_000638 VTN QG080-01 E06 HQP018474 NM_000376 VDR QG080-01 E06 HQP018402 NM_021833 UCP1 QG080-01 E08 HQP018237 NM_0031831 TYK2 QG080-01 E09 HQP018237 NM_004520 TRAF6 QG080-01 E10 HQP018214 NM_005547 TPO QG080-01 E11 HQP017956 NM_003205 TCF12 QG080-01 E11 HQP017966 NM_003198 TCEB3 QG080-01 F01 </td <td>QG080-01</td> <td>D09</td> <td>HQP019661</td> <td>NM_005437</td> <td>NCOA4</td>	QG080-01	D09	HQP019661	NM_005437	NCOA4
QG080-01 D12 HQP018750 NM_006301 MAP3K12 QG080-01 E01 HQP018568 NM_021141 XRCC5 QG080-01 E02 HQP018568 NM_005431 XRCC2 QG080-01 E03 HQP018504 NM_000562 WVF QG080-01 E04 HQP018502 NM_000638 VTN QG080-01 E06 HQP018502 NM_000638 VTN QG080-01 E06 HQP018402 NM_000638 VTN QG080-01 E06 HQP018402 NM_003376 VDR QG080-01 E08 HQP018340 NM_003331 TYK2 QG080-01 E09 HQP018214 NM_003205 TCF12 QG080-01 E10 HQP018214 NM_003205 TCF12 QG080-01 E11 HQP017965 NM_003205 TCF12 QG080-01 E11 HQP017960 NM_003198 TCEB3 QG080-01 F01 HQP017767 NM_003150 STAT3 QG080-01 F02<	QG080-01	D10	HQP018802	NM_001008540	CXCR4
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QG080-01 E05 HQP018502 NM_000638 VTN QG080-01 E06 HQP018474 NM_000376 VDR QG080-01 E07 HQP018402 NM_021833 UCP1 QG080-01 E08 HQP018340 NM_003331 TYK2 QG080-01 E09 HQP018237 NM_004620 TRAF6 QG080-01 E10 HQP018214 NM_000547 TPO QG080-01 E11 HQP017955 NM_003205 TCF12 QG080-01 E12 HQP017950 NM_003198 TCEB3 QG080-01 F01 HQP017767 NM_003150 STAT3 QG080-01 F01 HQP017766 NM_005419 STAT2 QG080-01 F02 HQP017766 NM_005419 STAT1 QG080-01 F03 HQP017766 NM_005419 STAT1 QG080-01 F04 HQP017769 NM_005419 STAT1 QG080-01 F05 HQP017696 NM_005417 SRC QG080-01 F06 </td <td>QG080-01</td> <td>E03</td> <td>HQP018546</td> <td>NM_000378</td> <td>WT1</td>	QG080-01	E03	HQP018546	NM_000378	WT1
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QG080-01 E10 HQP018214 NM_000547 TPO QG080-01 E11 HQP017965 NM_003205 TCF12 QG080-01 E12 HQP0177950 NM_003198 TCEB3 QG080-01 F01 HQP017767 NM_003150 STAT3 QG080-01 F02 HQP017766 NM_005419 STAT2 QG080-01 F03 HQP017764 NM_005419 STAT1 QG080-01 F04 HQP017766 NM_005419 STAT2 QG080-01 F04 HQP017696 NM_005417 SRC QG080-01 F05 HQP017696 NM_005631 SMO QG080-01 F06 HQP017633 NM_005067 SIAH2 QG080-01 F07 HQP016743 NM_005065 SEL1L QG080-01 F08 HQP016694 NM_001035511 SDHC QG080-01 F09 HQP016689 NM_002985 CCL5 QG080-01 F10 HQP016628 NM_002985 CCL5 QG080-01	QG080-01	E08	HQP018340	NM_003331	TYK2
QG080-01 E11 HQP017965 NM_003205 TCF12 QG080-01 E12 HQP017950 NM_003198 TCEB3 QG080-01 F01 HQP017767 NM_003150 STAT3 QG080-01 F02 HQP017766 NM_005419 STAT2 QG080-01 F03 HQP017764 NM_007315 STAT1 QG080-01 F04 HQP017696 NM_005417 SRC QG080-01 F05 HQP017696 NM_005631 SMO QG080-01 F05 HQP017693 NM_005631 SMO QG080-01 F06 HQP017163 NM_005067 SIAH2 QG080-01 F07 HQP016743 NM_005065 SEL1L QG080-01 F08 HQP016694 NM_001035511 SDHC QG080-01 F09 HQP016689 NM_003000 SDHB QG080-01 F10 HQP016626 NM_002985 CCL5 QG080-01 F1 HQP016628 NM_002986 S100A10 QG080-01	QG080-01	E09	HQP018237	NM_004620	TRAF6
QG080-01 E12 HQP017950 NM 003198 TCEB3 QG080-01 F01 HQP017767 NM_003150 STAT3 QG080-01 F02 HQP017766 NM_005419 STAT2 QG080-01 F03 HQP017764 NM_005419 STAT2 QG080-01 F04 HQP017764 NM_005417 SRC QG080-01 F05 HQP017563 NM_005631 SMO QG080-01 F06 HQP017633 NM_005067 SIAH2 QG080-01 F06 HQP016743 NM_005065 SEL1L QG080-01 F07 HQP016689 NM_001035511 SDHC QG080-01 F08 HQP016689 NM_001035511 SDHC QG080-01 F09 HQP016689 NM_002985 CCL5 QG080-01 F10 HQP016626 NM_002985 CCL5 QG080-01 F11 HQP0166212 NM_002866 S100A10 QG080-01 G01 HQP016212 NM_002895 RASA1 QG080-01	QG080-01	E10	HQP018214	NM_000547	TPO
QG080-01 F01 HQP017767 NM_003150 STAT3 QG080-01 F02 HQP017766 NM_005419 STAT2 QG080-01 F03 HQP017764 NM_007315 STAT1 QG080-01 F04 HQP017696 NM_005417 SRC QG080-01 F05 HQP017563 NM_005631 SMO QG080-01 F06 HQP017663 NM_005067 SIAH2 QG080-01 F06 HQP0176743 NM_005065 SEL1L QG080-01 F07 HQP016694 NM_001035511 SDHC QG080-01 F08 HQP016689 NM_003000 SDHB QG080-01 F10 HQP016689 NM_002000 SDHB QG080-01 F10 HQP016626 NM_002985 CCL5 QG080-01 F11 HQP016549 NM_002986 S100A10 QG080-01 F12 HQP016549 NM_002986 S100A10 QG080-01 G01 HQP016212 NM_000657 BCL2 QG080-01	QG080-01	E11	HQP017965	NM_003205	TCF12
QG080-01 F02 HQP017766 NM_005419 STAT2 QG080-01 F03 HQP017764 NM_007315 STAT1 QG080-01 F04 HQP017696 NM_005417 SRC QG080-01 F05 HQP017563 NM_005631 SMO QG080-01 F06 HQP016743 NM_005067 SIAH2 QG080-01 F07 HQP016743 NM_005065 SEL1L QG080-01 F08 HQP016694 NM_001035511 SDHC QG080-01 F09 HQP016689 NM_003000 SDHB QG080-01 F10 HQP016626 NM_002985 CCL5 QG080-01 F11 HQP016549 NM_002986 S100A10 QG080-01 F12 HQP016549 NM_002966 S100A10 QG080-01 F12 HQP016549 NM_002966 S100A10 QG080-01 G01 HQP016512 NM_000657 BCL2 QG080-01 G01 HQP016125 NM_002890 RASA1 QG080-01	QG080-01	E12	HQP017950	NM_003198	TCEB3
QG080-01 F03 HQP017764 NM_007315 STAT1 QG080-01 F04 HQP017696 NM_005417 SRC QG080-01 F05 HQP017563 NM_005631 SMO QG080-01 F06 HQP017163 NM_005067 SIAH2 QG080-01 F07 HQP016743 NM_005065 SEL1L QG080-01 F08 HQP016694 NM_001035511 SDHC QG080-01 F09 HQP016689 NM_003000 SDHB QG080-01 F10 HQP016689 NM_003000 SDHB QG080-01 F10 HQP016689 NM_002985 CCL5 QG080-01 F11 HQP016626 NM_002986 S100A10 QG080-01 F11 HQP016212 NM_000657 BCL2 QG080-01 G01 HQP016125 NM_002890 RASA1 QG080-01 G02 HQP016103 NM_001010935 RAP1A QG080-01 G03 HQP016087 NM_134424 RAD52 QG080-01	QG080-01	F01	HQP017767	NM_003150	STAT3
QG080-01 F04 HQP017696 NM_005417 SRC QG080-01 F05 HQP017563 NM_005631 SMO QG080-01 F06 HQP017163 NM_005067 SIAH2 QG080-01 F07 HQP016743 NM_005065 SEL1L QG080-01 F08 HQP016694 NM_001035511 SDHC QG080-01 F09 HQP016689 NM_003000 SDHB QG080-01 F10 HQP016626 NM_002985 CCL5 QG080-01 F11 HQP016626 NM_002986 S100A10 QG080-01 F11 HQP0166212 NM_000657 BCL2 QG080-01 G01 HQP016212 NM_000657 BCL2 QG080-01 G01 HQP016125 NM_000857 BCL2 QG080-01 G02 HQP016103 NM_00101935 RAP1A QG080-01 G03 HQP016087 NM_134424 RAD52 QG080-01 G04 HQP015538 NM_000322 BAD QG080-01 <td< td=""><td>QG080-01</td><td>F02</td><td>HQP017766</td><td>NM_005419</td><td>STAT2</td></td<>	QG080-01	F02	HQP017766	NM_005419	STAT2
QG080-01 F05 HQP017563 NM_005631 SMO QG080-01 F06 HQP017163 NM_005067 SIAH2 QG080-01 F07 HQP016743 NM_005065 SEL1L QG080-01 F08 HQP016694 NM_001035511 SDHC QG080-01 F09 HQP016689 NM_003000 SDHB QG080-01 F10 HQP016626 NM_002985 CCL5 QG080-01 F11 HQP016549 NM_002966 S100A10 QG080-01 F11 HQP016549 NM_000657 BCL2 QG080-01 F12 HQP016549 NM_000657 BCL2 QG080-01 G01 HQP016512 NM_000657 BCL2 QG080-01 G01 HQP016125 NM_0002890 RASA1 QG080-01 G02 HQP016103 NM_001019935 RAP1A QG080-01 G03 HQP016087 NM_134424 RAD52 QG080-01 G04 HQP015538 NM_0004322 BAD QG080-01	QG080-01	F03	HQP017764	NM_007315	STAT1
QG080-01 F06 HQP017163 NM_005067 SIAH2 QG080-01 F07 HQP016743 NM_005065 SEL1L QG080-01 F08 HQP016694 NM_001035511 SDHC QG080-01 F09 HQP016689 NM_003000 SDHB QG080-01 F10 HQP016626 NM_002985 CCL5 QG080-01 F11 HQP016549 NM_002966 S100A10 QG080-01 F12 HQP016212 NM_000657 BCL2 QG080-01 G01 HQP016125 NM_002890 RASA1 QG080-01 G01 HQP016103 NM_001010935 RAP1A QG080-01 G02 HQP016087 NM_134424 RAD52 QG080-01 G03 HQP016087 NM_002820 PTHLH QG080-01 G04 HQP015538 NM_004322 BAD QG080-01 G06 HQP015535 NM_00314 PTEN QG080-01 G07 HQP014848 NM_0002745 MAPK1 QG080-01	QG080-01	F04	HQP017696	NM_005417	SRC
QG080-01 F07 HQP016743 NM_005065 SEL1L QG080-01 F08 HQP016694 NM_001035511 SDHC QG080-01 F09 HQP016689 NM_003000 SDHB QG080-01 F10 HQP016626 NM_002985 CCL5 QG080-01 F11 HQP016549 NM_002966 S100A10 QG080-01 F12 HQP016212 NM_000657 BCL2 QG080-01 G01 HQP016125 NM_002890 RASA1 QG080-01 G02 HQP016103 NM_010101935 RAP1A QG080-01 G03 HQP016087 NM_134424 RAD52 QG080-01 G04 HQP015610 NM_002820 PTHLH QG080-01 G05 HQP015538 NM_004322 BAD QG080-01 G06 HQP015535 NM_000314 PTEN QG080-01 G07 HQP015530 NM_000264 PTCH1 QG080-01 G08 HQP014707 NM_018371 ChGn QG080-01	QG080-01	F05	HQP017563	NM_005631	SMO
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QG080-01 F09 HQP016689 NM_003000 SDHB QG080-01 F10 HQP016626 NM_002985 CCL5 QG080-01 F11 HQP016549 NM_002966 S100A10 QG080-01 F12 HQP016212 NM_000657 BCL2 QG080-01 G01 HQP016125 NM_002890 RASA1 QG080-01 G02 HQP016103 NM_001010935 RAP1A QG080-01 G03 HQP016087 NM_134424 RAD52 QG080-01 G04 HQP015610 NM_002820 PTHLH QG080-01 G05 HQP015538 NM_004322 BAD QG080-01 G06 HQP015535 NM_000314 PTEN QG080-01 G07 HQP015530 NM_000264 PTCH1 QG080-01 G08 HQP014848 NM_002745 MAPK1 QG080-01 G10 HQP014650 NM_018371 ChGn QG080-01 G11 HQP013633 NM_005037 PPARG QG080-01 <	QG080-01	F07	HQP016743	NM_005065	SEL1L
QG080-01 F10 HQP016626 NM_002985 CCL5 QG080-01 F11 HQP016549 NM_002966 S100A10 QG080-01 F12 HQP016212 NM_000657 BCL2 QG080-01 G01 HQP016125 NM_002890 RASA1 QG080-01 G02 HQP016103 NM_001010935 RAP1A QG080-01 G03 HQP016087 NM_134424 RAD52 QG080-01 G04 HQP015610 NM_002820 PTHLH QG080-01 G05 HQP015538 NM_004322 BAD QG080-01 G06 HQP015535 NM_000314 PTEN QG080-01 G07 HQP015530 NM_000264 PTCH1 QG080-01 G08 HQP014848 NM_002745 MAPK1 QG080-01 G09 HQP014707 NM_018371 ChGn QG080-01 G10 HQP013633 NM_005037 PPARG QG080-01 G12 HQP013352 NM_0005035 PMS2 QG080-01	QG080-01	F08	HQP016694	NM_001035511	SDHC
QG080-01 F11 HQP016549 NM_002966 \$100A10 QG080-01 F12 HQP016212 NM_000657 BCL2 QG080-01 G01 HQP016125 NM_002890 RASA1 QG080-01 G02 HQP016103 NM_001010935 RAP1A QG080-01 G03 HQP016087 NM_134424 RAD52 QG080-01 G04 HQP015610 NM_002820 PTHLH QG080-01 G05 HQP015538 NM_004322 BAD QG080-01 G06 HQP015535 NM_000314 PTEN QG080-01 G07 HQP015530 NM_000264 PTCH1 QG080-01 G08 HQP014848 NM_002745 MAPK1 QG080-01 G09 HQP014707 NM_018371 ChGn QG080-01 G10 HQP014650 NM_002734 PRKAR1A QG080-01 G11 HQP013352 NM_000537 PPARG QG080-01 H01 HGDC HGDC QG080-01 H02 HGDC<	QG080-01	F09	HQP016689	NM_003000	SDHB
QG080-01 F12 HQP016212 NM_000657 BCL2 QG080-01 G01 HQP016125 NM_002890 RASA1 QG080-01 G02 HQP016103 NM_001010935 RAP1A QG080-01 G03 HQP016087 NM_134424 RAD52 QG080-01 G04 HQP015610 NM_002820 PTHLH QG080-01 G05 HQP015538 NM_004322 BAD QG080-01 G06 HQP015535 NM_000314 PTEN QG080-01 G07 HQP015530 NM_000264 PTCH1 QG080-01 G08 HQP014848 NM_002745 MAPK1 QG080-01 G09 HQP014707 NM_018371 ChGn QG080-01 G10 HQP013633 NM_002734 PRKAR1A QG080-01 G11 HQP013633 NM_005037 PPARG QG080-01 H01 HGDC HGDC QG080-01 H02 HGDC GAPDH QG080-01 H04 HQP016381 NM_001101 <td>QG080-01</td> <td>F10</td> <td>HQP016626</td> <td>NM_002985</td> <td>CCL5</td>	QG080-01	F10	HQP016626	NM_002985	CCL5
QG080-01 G01 HQP016125 NM_002890 RASA1 QG080-01 G02 HQP016103 NM_001010935 RAP1A QG080-01 G03 HQP016087 NM_134424 RAD52 QG080-01 G04 HQP015610 NM_002820 PTHLH QG080-01 G05 HQP015538 NM_004322 BAD QG080-01 G06 HQP015535 NM_000314 PTEN QG080-01 G07 HQP015530 NM_000264 PTCH1 QG080-01 G08 HQP014848 NM_002745 MAPK1 QG080-01 G09 HQP014707 NM_018371 ChGn QG080-01 G10 HQP014650 NM_002734 PRKAR1A QG080-01 G11 HQP013633 NM_005037 PPARG QG080-01 H01 HGDC HGDC QG080-01 H02 HGDC GAPDH QG080-01 H03 HQP016381 NM_001101 ACTB QG080-01 H04 HQP016381 NM_004048 <td>QG080-01</td> <td>F11</td> <td>HQP016549</td> <td>NM_002966</td> <td>S100A10</td>	QG080-01	F11	HQP016549	NM_002966	S100A10
QG080-01 G02 HQP016103 NM_001010935 RAP1A QG080-01 G03 HQP016087 NM_134424 RAD52 QG080-01 G04 HQP015610 NM_002820 PTHLH QG080-01 G05 HQP015538 NM_004322 BAD QG080-01 G06 HQP015535 NM_000314 PTEN QG080-01 G07 HQP015530 NM_000264 PTCH1 QG080-01 G08 HQP014848 NM_002745 MAPK1 QG080-01 G09 HQP014707 NM_018371 ChGn QG080-01 G10 HQP014650 NM_002734 PRKAR1A QG080-01 G11 HQP013633 NM_005037 PPARG QG080-01 G12 HQP013352 NM_000535 PMS2 QG080-01 H01 HGDC HGDC GAPDH QG080-01 H03 HQP006940 NM_002046 GAPDH QG080-01 H04 HQP015171 NM_004048 B2M	QG080-01	F12	HQP016212	NM_000657	BCL2
QG080-01 G03 HQP016087 NM_134424 RAD52 QG080-01 G04 HQP015610 NM_002820 PTHLH QG080-01 G05 HQP015538 NM_004322 BAD QG080-01 G06 HQP015535 NM_000314 PTEN QG080-01 G07 HQP015530 NM_000264 PTCH1 QG080-01 G08 HQP014848 NM_002745 MAPK1 QG080-01 G09 HQP014707 NM_018371 ChGn QG080-01 G10 HQP014650 NM_002734 PRKAR1A QG080-01 G11 HQP013633 NM_005037 PPARG QG080-01 G12 HQP013352 NM_000535 PMS2 QG080-01 H01 HGDC HGDC GAPDH QG080-01 H03 HQP016381 NM_001101 ACTB QG080-01 H04 HQP016381 NM_004048 B2M	QG080-01	G01	HQP016125	NM_002890	RASA1
QG080-01 G04 HQP015610 NM_002820 PTHLH QG080-01 G05 HQP015538 NM_004322 BAD QG080-01 G06 HQP015535 NM_000314 PTEN QG080-01 G07 HQP015530 NM_000264 PTCH1 QG080-01 G08 HQP014848 NM_002745 MAPK1 QG080-01 G09 HQP014707 NM_018371 ChGn QG080-01 G10 HQP014650 NM_002734 PRKAR1A QG080-01 G11 HQP013633 NM_005037 PPARG QG080-01 G12 HQP013352 NM_000535 PMS2 QG080-01 H01 HGDC HGDC GAPDH QG080-01 H03 HQP006940 NM_002046 GAPDH QG080-01 H04 HQP016381 NM_001101 ACTB QG080-01 H05 HQP015171 NM_004048 B2M	QG080-01	G02	HQP016103	NM_001010935	RAP1A
QG080-01 G05 HQP015538 NM_004322 BAD QG080-01 G06 HQP015535 NM_000314 PTEN QG080-01 G07 HQP015530 NM_000264 PTCH1 QG080-01 G08 HQP014848 NM_002745 MAPK1 QG080-01 G09 HQP014707 NM_018371 ChGn QG080-01 G10 HQP014650 NM_002734 PRKAR1A QG080-01 G11 HQP013633 NM_005037 PPARG QG080-01 G12 HQP013352 NM_000535 PMS2 QG080-01 H01 HGDC HGDC QG080-01 QG080-01 H03 HQP006940 NM_002046 GAPDH QG080-01 H04 HQP016381 NM_001101 ACTB QG080-01 H05 HQP015171 NM_004048 B2M	QG080-01	G03	HQP016087	NM_134424	RAD52
QG080-01 G06 HQP015535 NM_000314 PTEN QG080-01 G07 HQP015530 NM_000264 PTCH1 QG080-01 G08 HQP014848 NM_002745 MAPK1 QG080-01 G09 HQP014707 NM_018371 ChGn QG080-01 G10 HQP014650 NM_002734 PRKAR1A QG080-01 G11 HQP013633 NM_005037 PPARG QG080-01 G12 HQP013352 NM_000535 PMS2 QG080-01 H01 HGDC HGDC QG080-01 H02 HGDC GAPDH QG080-01 H03 HQP006940 NM_001101 ACTB QG080-01 H04 HQP015171 NM_004048 B2M	QG080-01	G04	HQP015610	NM_002820	PTHLH
QG080-01 G07 HQP015530 NM_000264 PTCH1 QG080-01 G08 HQP014848 NM_002745 MAPK1 QG080-01 G09 HQP014707 NM_018371 ChGn QG080-01 G10 HQP014650 NM_002734 PRKAR1A QG080-01 G11 HQP013633 NM_005037 PPARG QG080-01 G12 HQP013352 NM_000535 PMS2 QG080-01 H01 HGDC HGDC QG080-01 H02 HGDC GAPDH QG080-01 H03 HQP006940 NM_002046 GAPDH QG080-01 H04 HQP016381 NM_001101 ACTB QG080-01 H05 HQP015171 NM_004048 B2M	QG080-01	G05	HQP015538	NM_004322	BAD
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QG080-01 G09 HQP014707 NM_018371 ChGn QG080-01 G10 HQP014650 NM_002734 PRKAR1A QG080-01 G11 HQP013633 NM_005037 PPARG QG080-01 G12 HQP013352 NM_000535 PMS2 QG080-01 H01 HGDC HGDC QG080-01 H02 HGDC GAPDH QG080-01 H03 HQP006940 NM_002046 GAPDH QG080-01 H04 HQP016381 NM_001101 ACTB QG080-01 H05 HQP015171 NM_004048 B2M	QG080-01	G07	HQP015530	NM_000264	PTCH1
QG080-01 G10 HQP014650 NM_002734 PRKAR1A QG080-01 G11 HQP013633 NM_005037 PPARG QG080-01 G12 HQP013352 NM_000535 PMS2 QG080-01 H01 HGDC HGDC QG080-01 H02 HGDC GAPDH QG080-01 H03 HQP006940 NM_002046 GAPDH QG080-01 H04 HQP016381 NM_001101 ACTB QG080-01 H05 HQP015171 NM_004048 B2M	QG080-01	G08	HQP014848	NM_002745	MAPK1
QG080-01 G10 HQP014650 NM_002734 PRKAR1A QG080-01 G11 HQP013633 NM_005037 PPARG QG080-01 G12 HQP013352 NM_000535 PMS2 QG080-01 H01 HGDC HGDC QG080-01 H02 HGDC GAPDH QG080-01 H03 HQP006940 NM_002046 GAPDH QG080-01 H04 HQP016381 NM_001101 ACTB QG080-01 H05 HQP015171 NM_004048 B2M	QG080-01	G09	HQP014707		ChGn
QG080-01 G11 HQP013633 NM_005037 PPARG QG080-01 G12 HQP013352 NM_000535 PMS2 QG080-01 H01 HGDC QG080-01 H02 HGDC QG080-01 H03 HQP006940 NM_002046 GAPDH QG080-01 H04 HQP016381 NM_001101 ACTB QG080-01 H05 HQP015171 NM_004048 B2M	QG080-01	G10	HQP014650	NM_002734	PRKAR1A
QG080-01 G12 HQP013352 NM_000535 PMS2 QG080-01 H01 HGDC				_	PPARG
QG080-01 H01 HGDC QG080-01 H02 HGDC QG080-01 H03 HQP006940 NM_002046 GAPDH QG080-01 H04 HQP016381 NM_001101 ACTB QG080-01 H05 HQP015171 NM_004048 B2M				NM_000535	PMS2
QG080-01 H02 HGDC QG080-01 H03 HQP006940 NM_002046 GAPDH QG080-01 H04 HQP016381 NM_001101 ACTB QG080-01 H05 HQP015171 NM_004048 B2M		H01	HGDC	_	
QG080-01 H03 HQP006940 NM_002046 GAPDH QG080-01 H04 HQP016381 NM_001101 ACTB QG080-01 H05 HQP015171 NM_004048 B2M					
QG080-01 H04 HQP016381 NM_001101 ACTB QG080-01 H05 HQP015171 NM_004048 B2M				NM_002046	GAPDH
QG080-01 H05 HQP015171 NM_004048 B2M				_	ACTB
				_	B2M
	QG080-01	H06		NM_012423	RPL13A

Product Data Sheet

QG080-01	H07	HQP009026	NM_000194	HPRT1
QG080-01	H08	HQP054253	NR_003286	RN18S1
QG080-01	H09	RT		
QG080-01	H10	RT		
QG080-01	H11	PCR		
QG080-01	H12	PCR		

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