

## ExProfile™ Human Skin Cancer Gene qPCR Array

### For focused group profiling of human skin cancer related genes expression

Cat. No. QG078-A (3 x 96-well plate, Format A)

Cat. No. QG078-B (3 x 96-well plate, Format B)

Cat. No. QG078-C (3 x 96-well plate, Format C)

Cat. No. QG078-D (3 x 96-well plate, Format D)

Cat. No. QG078-E (3 x 96-well plate, Format E)

Available as 1 set or 6 sets. Each set contains 252 unique gene primers deposited in three 96-well plates.

### Introduction

The ExProfile human skin cancer gene qPCR array profiles 252 human genes to aberrantly expressed human genes involved in human skin 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 ExProfile human skin cancer array allows researchers to study the cancer-related genes to gain understanding of their roles in skin cancer pathogenesis.

- QG078 plate 01: 84 unique gene PCR primer pairs
- QG078 plate 02: 84 unique gene PCR primer pairs
- QG078 plate 03: 84 unique gene PCR primer pairs

### Shipping and storage condition

Shipped at room temperature

Stable for at least 6 months when stored at -20 °C

### 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
<b>A</b> (96-well)	Applied Biosystems	5700, 7000, 7300, 7500, 7700, 7900HT (Standard 96-well block), ViiA™7 (Standard 96-well block)
<b>B</b> (96-well)	Applied Biosystems	7500 (Fast block), 7900HT (Fast block), StepOnePlus™, ViiA™7 (Fast block)
<b>C</b> (96-well)	Bio-Rad Laboratories	iCycler iQ®, MyiQ™, iQ™5
<b>D</b> (96-well)	Bio-Rad Laboratories	CFX96™, DNA Engine Opticon™, DNA Engine Opticon 2™, Chromo4™
<b>E</b> (96-well)	Roche Applied Science	LightCycler® 480 (96-well block)

**Quality control**

1. 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**.
3. 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-One™ First-Strand cDNA Synthesis Kit  
 All-in-One™ 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
A	TP53	CDKN2A	ERCC2	XRCC1	CYP1A1	BRAF	IL10	ALDH2	VDR	MTHFR	CYP2E1	ADH1B
B	EGFR	HLA-DRB1	XRCC3	CCND1	BRC4	PTGS2	EGF	XPC	MDM2	KRAS	TNF	IL1B
C	ADH1C	TGFB1	OCA2	IL6	NAT2	CDK4	PTCH1	NRAS	IL8	VEGFA	TYR	ASIP
D	MMP3	KIT	FASLG	ERCC5	BCR	IL4	HLA-A	CYP1B1	CTLA4	CHEK2	OGG1	NQO1
E	XRCC2	TYRP1	SLC45A2	MTR	MMP9	MMP1	IRF4	GNAS	ERCC4	ERCC1	CYP2D6	CLPTM1L
F	TP53BP1	BCL2	ABCB1	NBN	MTAP	MMP2	IL18	IL1RN	APEX1	GSTM3	FGFR4	EPHX1
G	ACE	TP73	NAT1	ATRN	PLA2G6	CASP8	XRCC4	TNFRSF1B	SOX10	SOD2	CXCL12	PTEN
H	HGDC	HGDC	GAPDH	ACTB	B2M	RPL13A	HPRT1	RN18S1	RT	RT	PCR	PCR

Figure1. Illustration of QG078 plate 01

	1	2	3	4	5	6	7	8	9	10	11	12
A	PPARG	POMC	PLCE1	NFKB1	MYC	MTRR	MSH2	MPO	MLH1	MITF	LIG4	IL6R
B	IL2	EDNRB	CYP3A5	CYP2A13	SLC24A4	DNMT3B	RRM1	FGFR2	BMP4	CDH1	MAGEC1	ACYP2
C	CDA	CD28	PLAA	CD83	LIMD1	NRP1	RGS11	CBS	AP3B1	RGS8	PKP4	RGS5
D	CASP3	C13orf18	RM1	TMC5	SHFM1	GTDC1	NEIL1	CXCR4	XRCC5	XDH	UBE2E2	TALDO1
E	SULT1A1	STK11	SPP1	SILV	SMYD3	SGCD	RNH1	RNASE3	RGS16	RGS13	RGS10	RGS7
F	RGS4	RGS3	RGS2	RB1	RHOU	PTPN13	KIAA1632	MAGEE1	MYH7B	SHROOM3	GPR158	AS3MT
G	IFNK	BCCIP	KLHL9	RCC2	ARHGEF10L	PIK3CA	PIK3C3	PIK3C2A	DTL	REV1	PLUNC	TLR7
H	HGDC	HGDC	GAPDH	ACTB	B2M	RPL13A	HPRT1	RN18S1	RT	RT	PCR	PCR

Figure2. Illustration of QG078 plate 02

	1	2	3	4	5	6	7	8	9	10	11	12
A	PAX3	ACO1	NOS2A	NFKBIA	NFE2L2	MYO7A	MYH3	MMP8	MAGEA4	MAGEA1	SMAD4	LEPR
B	LEP	KRT5	KIR2DL3	ITGB3	IL12B	IL12A	IL4R	IL1A	IGFBP7	IGF2	IGF1	IFNB1
C	IFNA16	IFNA5	IFNA2	IDH2	IDH1	IFNE1	BIRC5	HPS1	HP	APAF1	HIF1A	HFE
D	PACSIN1	ICOS	GSTA4	GRM1	NR3C1	TUSC1	SLC9A9	SLCO1B3	GP1BA	GNB3	GNA11	GDNF
E	RGS22	XRCC6	NEIL2	ABCA4	PADI4	PPP1R13B	SYNE1	MGRN1	KIAA0802	PLCB1	FLT1	JMJD2C
F	FGFR3	PTK2B	F5	F2	ERCC6	AGT	CYP17A1	PARP4	PARP1	ADH7	PIGU	ADH1A
G	CCR5	GRIN3A	GALNT13	PGLYRP2	CHRNA5	POLI	RGS14	CDKN2C	ZFYVE21	RGS18	RGS12	CRNN
H	HGDC	HGDC	GAPDH	ACTB	B2M	RPL13A	HPRT1	RN18S1	RT	RT	PCR	PCR

Figure3. Illustration of QG078 plate 03

## Product Data Sheet

- **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 pre-deposited DNA template with its specific pre-deposited primer pairs.

### Gene primer list

Plate	Position	Catalog No. of Primer	Accession No. of Gene	Symbol
QG078-01	A01	HQP018175	NM_000546	TP53
QG078-01	A02	HQP000370	NM_058195	CDKN2A
QG078-01	A03	HQP004976	NM_000400	ERCC2
QG078-01	A04	HQP018562	NM_006297	XRCC1
QG078-01	A05	HQP003772	NM_000499	CYP1A1
QG078-01	A06	HQP017733	NM_004333	BRAF
QG078-01	A07	HQP009685	NM_000572	IL10
QG078-01	A08	HQP005087	NM_000690	ALDH2
QG078-01	A09	HQP018474	NM_000376	VDR
QG078-01	A10	HQP011547	NM_005957	MTHFR
QG078-01	A11	HQP003817	NM_000773	CYP2E1
QG078-01	A12	HQP002331	NM_000668	ADH1B
QG078-01	B01	HQP004605	NM_005228	EGFR
QG078-01	B02	HQP054047	BC008403	HLA-DRB1
QG078-01	B03	HQP018564	NM_005432	XRCC3
QG078-01	B04	HQP016204	NM_053056	CCND1
QG078-01	B05	HQP017753	NM_000059	BRCA2
QG078-01	B06	HQP015598	NM_000963	PTGS2
QG078-01	B07	HQP004599	NM_001963	EGF
QG078-01	B08	HQP018556	NM_004628	XPC
QG078-01	B09	HQP011135	NM_002392	MDM2
QG078-01	B10	HQP010133	NM_004985	KRAS
QG078-01	B11	HQP018141	NM_000594	TNF
QG078-01	B12	HQP009641	NM_000576	IL1B
QG078-01	C01	HQP002413	NM_000669	ADH1C
QG078-01	C02	HQP018044	NM_000660	TGFB1
QG078-01	C03	HQP012008	NM_000275	OCA2
QG078-01	C04	HQP009670	NM_000600	IL6
QG078-01	C05	HQP001136	NM_000015	NAT2
QG078-01	C06	HQP000245	NM_000075	CDK4
QG078-01	C07	HQP015530	NM_000264	PTCH1

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QG078-01	C08	HQP011914	NM_002524	NRAS
QG078-01	C09	HQP009678	NM_000584	IL8
QG078-01	C10	HQP018475	NM_001025366	VEGFA
QG078-01	C11	HQP018343	NM_000372	TYR
QG078-01	C12	HQP011303	NM_001672	ASIP
QG078-01	D01	HQP011257	NM_002422	MMP3
QG078-01	D02	HQP010099	NM_000222	KIT
QG078-01	D03	HQP009671	NM_000639	FASLG
QG078-01	D04	HQP004985	NM_000123	ERCC5
QG078-01	D05	HQP016418	NM_004327	BCR
QG078-01	D06	HQP009662	NM_000589	IL4
QG078-01	D07	HQP008849	NM_002116	HLA-A
QG078-01	D08	HQP003775	NM_000104	CYP1B1
QG078-01	D09	HQP003499	NM_001037631	CTLA4
QG078-01	D10	HQP001396	NM_001005735	CHEK2
QG078-01	D11	HQP012021	NM_002542	OGG1
QG078-01	D12	HQP004317	NM_000903	NQO1
QG078-01	E01	HQP018563	NM_005431	XRCC2
QG078-01	E02	HQP018349	NM_000550	TYRP1
QG078-01	E03	HQP012457	NM_001012509	SLC45A2
QG078-01	E04	HQP011554	NM_000254	MTR
QG078-01	E05	HQP011263	NM_004994	MMP9
QG078-01	E06	HQP011255	NM_002421	MMP1
QG078-01	E07	HQP009781	NM_002460	IRF4
QG078-01	E08	HQP007755	NM_000516	GNAS
QG078-01	E09	HQP004984	NM_005236	ERCC4
QG078-01	E10	HQP004975	NM_202001	ERCC1
QG078-01	E11	HQP003814	NM_000106	CYP2D6
QG078-01	E12	HQP019829	NM_030782	CLPTM1L
QG078-01	F01	HQP018176	NM_005657	TP53BP1
QG078-01	F02	HQP016212	NM_000657	BCL2
QG078-01	F03	HQP013100	NM_000927	ABCB1
QG078-01	F04	HQP011687	NM_002485	NBN
QG078-01	F05	HQP011540	NM_002451	MTAP
QG078-01	F06	HQP011256	NM_004530	MMP2
QG078-01	F07	HQP009718	NM_001562	IL18
QG078-01	F08	HQP009645	NM_000577	IL1RN
QG078-01	F09	HQP009061	NM_001641	APEX1
QG078-01	F10	HQP008483	NM_000849	GSTM3
QG078-01	F11	HQP005440	NM_022963	FGFR4
QG078-01	F12	HQP004948	NM_000120	EPHX1
QG078-01	G01	HQP004081	NM_000789	ACE
QG078-01	G02	HQP018180	NM_005427	TP73
QG078-01	G03	HQP023467	NM_000662	NAT1
QG078-01	G04	HQP020803	NM_139321	ATRN
QG078-01	G05	HQP020418	NM_001004426	PLA2G6
QG078-01	G06	HQP018966	NM_001080124	CASP8
QG078-01	G07	HQP018565	NM_003401	XRCC4

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QG078-01	G08	HQP018149	NM_001066	TNFRSF1B
QG078-01	G09	HQP017636	NM_006941	SOX10
QG078-01	G10	HQP017616	NM_000636	SOD2
QG078-01	G11	HQP016670	NM_001033886	CXCL12
QG078-01	G12	HQP015535	NM_000314	PTEN
QG078-01	H01	HGDC		
QG078-01	H02	HGDC		
QG078-01	H03	HQP006940	NM_002046	GAPDH
QG078-01	H04	HQP016381	NM_001101	ACTB
QG078-01	H05	HQP015171	NM_004048	B2M
QG078-01	H06	HQP006171	NM_012423	RPL13A
QG078-01	H07	HQP009026	NM_000194	HPRT1
QG078-01	H08	HQP054253	NR_003286	RN18S1
QG078-01	H09	RT		
QG078-01	H10	RT		
QG078-01	H11	PCR		
QG078-01	H12	PCR		
QG078-02	A01	HQP013633	NM_005037	PPARG
QG078-02	A02	HQP013467	NM_000939	POMC
QG078-02	A03	HQP012501	NM_016341	PLCE1
QG078-02	A04	HQP011807	NM_003998	NFKB1
QG078-02	A05	HQP011597	NM_002467	MYC
QG078-02	A06	HQP011555	NM_002454	MTRR
QG078-02	A07	HQP011491	NM_000251	MSH2
QG078-02	A08	HQP011309	NM_000250	MPO
QG078-02	A09	HQP011235	NM_000249	MLH1
QG078-02	A10	HQP011223	NM_000248	MITF
QG078-02	A11	HQP010613	NM_002312	LIG4
QG078-02	A12	HQP009672	NM_000565	IL6R
QG078-02	B01	HQP009649	NM_000586	IL2
QG078-02	B02	HQP004564	NM_000115	EDNRB
QG078-02	B03	HQP003841	NM_000777	CYP3A5
QG078-02	B04	HQP003804	NM_000766	CYP2A13
QG078-02	B05	HQP002192	NM_153646	SLC24A4
QG078-02	B06	HQP004414	NM_006892	DNMT3B
QG078-02	B07	HQP054684	NM_001033	RRM1
QG078-02	B08	HQP054054	BC039243	FGFR2
QG078-02	B09	HQP053910	NM_130851	BMP4
QG078-02	B10	HQP023466	NM_004360	CDH1
QG078-02	B11	HQP023394	NM_005462	MAGEC1
QG078-02	B12	HQP023341	NM_138448	ACYP2
QG078-02	C01	HQP023203	NM_001785	CDA
QG078-02	C02	HQP022699	NM_006139	CD28
QG078-02	C03	HQP022630	NM_001031689	PLAA
QG078-02	C04	HQP022500	NM_001040280	CD83
QG078-02	C05	HQP021829	NM_014240	LIMD1
QG078-02	C06	HQP021597	NM_003873	NRP1
QG078-02	C07	HQP021542	NM_003834	RGS11

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QG078-02	C08	HQP021518	NM_000071	CBS
QG078-02	C09	HQP021252	NM_003664	AP3B1
QG078-02	C10	HQP021205	NM_033345	RGS8
QG078-02	C11	HQP021125	NM_001005476	PKP4
QG078-02	C12	HQP021023	NM_003617	RGS5
QG078-02	D01	HQP020297	NM_004346	CASP3
QG078-02	D02	HQP019568	NM_025113	C13orf18
QG078-02	D03	HQP019462	NM_024945	RMI1
QG078-02	D04	HQP019310	NM_024780	TMC5
QG078-02	D05	HQP019268	NM_006304	SHFM1
QG078-02	D06	HQP019189	NM_001006636	GTDC1
QG078-02	D07	HQP019141	NM_024608	NEIL1
QG078-02	D08	HQP018802	NM_001008540	CXCR4
QG078-02	D09	HQP018568	NM_021141	XRCC5
QG078-02	D10	HQP018552	NM_000379	XDH
QG078-02	D11	HQP018372	NM_152653	UBE2E2
QG078-02	D12	HQP017897	NM_006755	TALDO1
QG078-02	E01	HQP017811	NM_177536	SULT1A1
QG078-02	E02	HQP017794	NM_000455	STK11
QG078-02	E03	HQP017673	NM_000582	SPP1
QG078-02	E04	HQP017238	NM_006928	SILV
QG078-02	E05	HQP017124	NM_022743	SMYD3
QG078-02	E06	HQP017001	NM_000337	SGCD
QG078-02	E07	HQP016332	NM_002939	RNH1
QG078-02	E08	HQP016295	NM_002935	RNASE3
QG078-02	E09	HQP016269	NM_002928	RGS16
QG078-02	E10	HQP016268	NM_002927	RGS13
QG078-02	E11	HQP016263	NM_001005339	RGS10
QG078-02	E12	HQP016262	NM_002924	RGS7
QG078-02	F01	HQP016259	NM_005613	RGS4
QG078-02	F02	HQP016253	NM_017790	RGS3
QG078-02	F03	HQP016252	NM_002923	RGS2
QG078-02	F04	HQP016131	NM_000321	RB1
QG078-02	F05	HQP015997	NM_021205	RHOU
QG078-02	F06	HQP015897	NM_006264	PTPN13
QG078-02	F07	HQP015845	NM_020964	KIAA1632
QG078-02	F08	HQP015807	NM_020932	MAGEE1
QG078-02	F09	HQP015771	NM_020884	MYH7B
QG078-02	F10	HQP015756	NM_020859	SHROOM3
QG078-02	F11	HQP015669	NM_020752	GPR158
QG078-02	F12	HQP015589	NM_020682	AS3MT
QG078-02	G01	HQP015179	NM_020124	IFNK
QG078-02	G02	HQP015124	NM_016567	BCCIP
QG078-02	G03	HQP014851	NM_018847	KLHL9
QG078-02	G04	HQP014839	NM_018715	RCC2
QG078-02	G05	HQP014116	NM_001011722	ARHGEF10L
QG078-02	G06	HQP013150	NM_006218	PIK3CA
QG078-02	G07	HQP013147	NM_002647	PIK3C3

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QG078-02	G08	HQP013144	NM_002645	PIK3C2A
QG078-02	G09	HQP012796	NM_016448	DTL
QG078-02	G10	HQP012755	NM_001037872	REV1
QG078-02	G11	HQP012605	NM_016583	PLUNC
QG078-02	G12	HQP012591	NM_016562	TLR7
QG078-02	H01	HGDC		
QG078-02	H02	HGDC		
QG078-02	H03	HQP006940	NM_002046	GAPDH
QG078-02	H04	HQP016381	NM_001101	ACTB
QG078-02	H05	HQP015171	NM_004048	B2M
QG078-02	H06	HQP006171	NM_012423	RPL13A
QG078-02	H07	HQP009026	NM_000194	HPRT1
QG078-02	H08	HQP054253	NR_003286	RN18S1
QG078-02	H09	RT		
QG078-02	H10	RT		
QG078-02	H11	PCR		
QG078-02	H12	PCR		
QG078-03	A01	HQP012210	NM_181461	PAX3
QG078-03	A02	HQP011926	NM_002197	ACO1
QG078-03	A03	HQP011866	NM_000625	NOS2A
QG078-03	A04	HQP011810	NM_020529	NFKBIA
QG078-03	A05	HQP011800	NM_006164	NFE2L2
QG078-03	A06	HQP011648	NM_000260	MYO7A
QG078-03	A07	HQP011609	NM_002470	MYH3
QG078-03	A08	HQP011262	NM_002424	MMP8
QG078-03	A09	HQP010979	NM_001011548	MAGEA4
QG078-03	A10	HQP010977	NM_004988	MAGEA1
QG078-03	A11	HQP010961	NM_005359	SMAD4
QG078-03	A12	HQP010584	NM_002303	LEPR
QG078-03	B01	HQP010581	NM_000230	LEP
QG078-03	B02	HQP010141	NM_000424	KRT5
QG078-03	B03	HQP010086	NM_015868	KIR2DL3
QG078-03	B04	HQP009818	NM_000212	ITGB3
QG078-03	B05	HQP009693	NM_002187	IL12B
QG078-03	B06	HQP009692	NM_000882	IL12A
QG078-03	B07	HQP009664	NM_000418	IL4R
QG078-03	B08	HQP009640	NM_000575	IL1A
QG078-03	B09	HQP009558	NM_001553	IGFBP7
QG078-03	B10	HQP009529	NM_000612	IGF2
QG078-03	B11	HQP009518	NM_000618	IGF1
QG078-03	B12	HQP009463	NM_002176	IFNB1
QG078-03	C01	HQP009446	NM_002173	IFNA16
QG078-03	C02	HQP009427	NM_002169	IFNA5
QG078-03	C03	HQP009422	NM_000605	IFNA2
QG078-03	C04	HQP009353	NM_002168	IDH2
QG078-03	C05	HQP009351	NM_005896	IDH1
QG078-03	C06	HQP009181	NM_176891	IFNE1
QG078-03	C07	HQP009101	NM_001168	BIRC5

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QG078-03	C08	HQP009027	NM_000195	HPS1
QG078-03	C09	HQP009019	NM_005143	HP
QG078-03	C10	HQP008934	NM_001160	APAF1
QG078-03	C11	HQP008832	NM_181054	HIF1A
QG078-03	C12	HQP008757	NM_000410	HFE
QG078-03	D01	HQP008669	NM_020804	PACSN1
QG078-03	D02	HQP008554	NM_012092	ICOS
QG078-03	D03	HQP008479	NM_001512	GSTA4
QG078-03	D04	HQP008436	NM_000838	GRM1
QG078-03	D05	HQP008402	NM_001020825	NR3C1
QG078-03	D06	HQP008231	NM_001004125	TUSC1
QG078-03	D07	HQP008118	NM_173653	SLC9A9
QG078-03	D08	HQP007821	NM_019844	SLCO1B3
QG078-03	D09	HQP007803	NM_000173	GP1BA
QG078-03	D10	HQP007767	NM_002075	GNB3
QG078-03	D11	HQP007743	NM_002067	GNA11
QG078-03	D12	HQP007346	NM_000514	GDNF
QG078-03	E01	HQP007098	NM_015668	RGS22
QG078-03	E02	HQP006547	NM_001469	XRCC6
QG078-03	E03	HQP006460	NM_145043	NEIL2
QG078-03	E04	HQP006441	NM_000350	ABCA4
QG078-03	E05	HQP006227	NM_012387	PADI4
QG078-03	E06	HQP006038	NM_015316	PPP1R13B
QG078-03	E07	HQP006010	NM_033071	SYNE1
QG078-03	E08	HQP005965	NM_015246	MGRN1
QG078-03	E09	HQP005925	NM_015210	KIAA0802
QG078-03	E10	HQP005899	NM_182734	PLCB1
QG078-03	E11	HQP005879	NM_002019	FLT1
QG078-03	E12	HQP005736	NM_015061	JMJD2C
QG078-03	F01	HQP005434	NM_000142	FGFR3
QG078-03	F02	HQP005093	NM_004103	PTK2B
QG078-03	F03	HQP005058	NM_000130	F5
QG078-03	F04	HQP005052	NM_000506	F2
QG078-03	F05	HQP004986	NM_000124	ERCC6
QG078-03	F06	HQP004494	NM_000029	AGT
QG078-03	F07	HQP003888	NM_000102	CYP17A1
QG078-03	F08	HQP003171	NM_006437	PARP4
QG078-03	F09	HQP003120	NM_001618	PARP1
QG078-03	F10	HQP002701	NM_000673	ADH7
QG078-03	F11	HQP002534	NM_080476	PIGU
QG078-03	F12	HQP002301	NM_000667	ADH1A
QG078-03	G01	HQP002210	NM_000579	CCR5
QG078-03	G02	HQP001887	NM_133445	GRIN3A
QG078-03	G03	HQP001712	NM_052917	GALNT13
QG078-03	G04	HQP001682	NM_052890	PGLYRP2
QG078-03	G05	HQP001643	NM_000745	CHRNA5
QG078-03	G06	HQP001399	NM_007195	POLI
QG078-03	G07	HQP000771	NM_006480	RGS14



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QG078-03	G08	HQP000396	NM_001262	CDKN2C
QG078-03	G09	HQP018876	NM_024071	ZFYVE21
QG078-03	G10	HQP016965	NM_130782	RGS18
QG078-03	G11	HQP016265	NM_002926	RGS12
QG078-03	G12	HQP012055	NM_016190	CRNN
QG078-03	H01	HGDC		
QG078-03	H02	HGDC		
QG078-03	H03	HQP006940	NM_002046	GAPDH
QG078-03	H04	HQP016381	NM_001101	ACTB
QG078-03	H05	HQP015171	NM_004048	B2M
QG078-03	H06	HQP006171	NM_012423	RPL13A
QG078-03	H07	HQP009026	NM_000194	HPRT1
QG078-03	H08	HQP054253	NR_003286	RN18S1
QG078-03	H09	RT		
QG078-03	H10	RT		
QG078-03	H11	PCR		
QG078-03	H12	PCR		

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