

ExProfile™ Human Ovarian Cancer Gene qPCR Array

For focused group profiling of human ovarian cancer related genes expression

Cat. No. QG075-A (4 x 96-well plate, Format A)

Cat. No. QG075-B (4 x 96-well plate, Format B)

Cat. No. QG075-C (4 x 96-well plate, Format C)

Cat. No. QG075-D (4 x 96-well plate, Format D)

Cat. No. QG075-E (4 x 96-well plate, Format E)

Available as 1 set or 6 sets. Each set contains 336 unique gene primers deposited in four 96-well plates.

Introduction

The ExProfile human ovarian cancer gene qPCR array profiles 336 human genes to aberrantly expressed human genes involved in human ovarian 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 ovarian cancer gene array allows researchers to study the cancer-related genes to gain understanding of their roles in ovarian cancer pathogenesis.

- QG075 plate 01: 84 unique gene PCR primer pairs
- QG075 plate 02: 84 unique gene PCR primer pairs
- QG075 plate 03: 84 unique gene PCR primer pairs
- QG075 plate 04: 84 unique gene PCR primer pairs

Shipping and storage condition

Shipped at room temperate

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

Array format

GeneCopeia 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™7 (Standard 96-well block)
B (96-well)	Applied Biosystems	7500 (Fast block), 7900HT (Fast block), StepOnePlus™, ViiA™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

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	BRCA2	TP53	PGR	VEGFA	CYP1A1	KRAS	AR	CDKN2A	VDR	BRAF	CHEK2	RB1
B	ERCC2	ERCC1	COMT	ABCB1	MTHFR	MMP1	CYP1B1	CCNE1	CCND2	CCND1	NBN	MMP3
C	MLH1	IL6	CYP3A5	CDK4	XRCC1	SOD2	RAD52	PTEN	PIK3CA	MSH2	IL1B	MSH6
D	GALT	ESR2	ESR1	CYP17A1	CDKN2D	CDKN2C	CDK2	FGFR2	HLA-DRB1	CASP8	XRCC3	XRCC2
E	SRD5A2	PTGS2	PMS2	PMS1	PHB	MSH3	MRE11A	MDM2	IL18	IL10	IL1RN	IL1A
F	IGFBP3	IGF1	FSHR	EGF	DNMT3A	CYP19A1	CYP2C8	CDK6	SHBG	CDH1	NMI	NCOA3
G	TNF	TGFB1	SULT1A1	ZNF350	RBBP8	RAD51C	BARD1	PTGS1	PON1	PLAU	SERPINE1	NFKBIA
H	HGDC	HGDC	GAPDH	ACTB	B2M	RPL13A	HPRT1	RN18S1	RT	RT	PCR	PCR

Figure1. Illustration of QG075 plate 01

	1	2	3	4	5	6	7	8	9	10	11	12
A	MUC1	MPO	MMP12	MMP9	MMP2	LIG4	ITGB3	INS	IL1R1	IGFBP5	IGFBP1	IGF1R
B	APC	HLA-A	GALNT1	FGF2	EPHX1	EGFR	CYP2E1	CYP2C9	CYP2B6	NAT2	RAD50	KLK10
C	PLAT	ERCC5	POU5F1P1	TGFBR1	RET	EXO1	MAP3K1	BMP4	CDC25B	CDC25A	CDC20	DOCK4
D	ISG15	NCOR1	CXCL14	TP53I3	MUC16	ACVR2A	PTTG1	CCNE2	CCNB2	ACVR1	CCNG2	CCNG1
E	P4HA2	CCNB1	ST3GAL5	PCAF	WISP1	CFLAR	TNFRSF10A	TNFSF10	SERPINB7	AKR1C3	SKAP1	RUVBL1
F	PRKRA	IFITM1	AIFM2	OGT	CUL1	CASP5	BAP1	AXIN2	NRIP1	PTGES2	CALCA	PTP4A1
G	PRDM2	XRCC5	XRCC4	XPC	WNT10B	WNT5A	WNT2	VIL2	VEGFC	TYMS	TYK2	TWIST1
H	HGDC	HGDC	GAPDH	ACTB	B2M	RPL13A	HPRT1	RN18S1	RT	RT	PCR	PCR

Figure2. Illustration of QG075 plate 02

	1	2	3	4	5	6	7	8	9	10	11	12
A	TNFRSF1B	TNFAIP3	TNFAIP2	KLF10	THBS4	TGFB2	TFDP2	TFDP1	BUB1	ZNF354A	TBXAS1	BST2
B	STAT3	STAT1	TRIM21	SRD5A1	SPP1	SPARC	SOX9	SORD	SOD1	SKP2	AKTIP	NOD2
C	CXCL6	CCL13	CCL11	SAT1	S100A7	SORT1	SERPING1	MRPL23	BCR	RGS2	BCL2	RBL2
D	RBL1	PTPN1	PTHLH	PTGIS	PTGER3	PTGER1	PTGDR	BACH1	TCEAL7	PRKRIR	EIF2AK2	MAPK1
E	ECHDC1	PPARG	PPARD	ATR	UGT1A6	POLR2K	PODXL	PLOD2	PLOD1	PLK1	PLAUR	WVVOX
F	UIMC1	PDGFRB	PDGFB	HSD17B7	CRLF3	TNFRSF12A	HSD17B12	PCNA	SERPINB2	OAS1	DDR2	NT5E
G	NOTCH3	NOS3	NOS2A	ATP1B2	NFKBIB	NFKB2	MYC	MX1	ABCC1	MMP14	CXCL9	MFAP4
H	HGDC	HGDC	GAPDH	ACTB	B2M	RPL13A	HPRT1	RN18S1	RT	RT	PCR	PCR

Figure3. Illustration of QG075 plate 03

Product Data Sheet

	1	2	3	4	5	6	7	8	9	10	11	12
A	MEST	MDM4	MCM6	MCM2	MAPT	MAL	SMAD3	TACSTD1	LTBP1	LIG3	LIG1	L1CAM
B	KPNA2	AREG	JUN	ITGB1	ITGAV	IRF7	ITGA6	INSR	INHBC	INHBB	IL8RB	IL8
C	IL6ST	FASLG	IGFBP6	IGFBP4	IGFBP2	IGF2	IFIT1	IFI35	IFI16	ID2	BIRC5	HSD17B4
D	HSD17B1	APEX1	HRAS	HIF1A	HELLS	HDAC2	HDAC1	H1FO	DNMT3L	GSTM3	CXCL3	C13orf15
E	GPX4	GNRHR	AMHR2	STEAP1	CHD5	XRCC6	FUCA1	FSHB	ALOX15B	PANX1	GABARAPL1	FOS
F	FN1	SYNE1	FOXL1	DKK1	ALDH3A1	FANCF	FANCD2	FANCC	FANCA	ALDH1A1	F13A1	F5
G	F2	ESRRA	AKT2	AKT1	ERCC6	ERCC4	ERCC3	ERBB3	EP300	EIF4EBP2	EGR2	E2F4
H	HGDC	HGDC	GAPDH	ACTB	B2M	RPL13A	HPRT1	RN18S1	RT	RT	PCR	PCR

Figure4. Illustration of QG075 plate 04

- **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
QG075-01	A01	HQP017753	NM_000059	BRCA2
QG075-01	A02	HQP018175	NM_000546	TP53
QG075-01	A03	HQP013099	NM_000926	PGR
QG075-01	A04	HQP018475	NM_001025366	VEGFA
QG075-01	A05	HQP003772	NM_000499	CYP1A1
QG075-01	A06	HQP010133	NM_004985	KRAS
QG075-01	A07	HQP009801	NM_000044	AR
QG075-01	A08	HQP000370	NM_058195	CDKN2A
QG075-01	A09	HQP018474	NM_000376	VDR
QG075-01	A10	HQP017733	NM_004333	BRAF
QG075-01	A11	HQP001396	NM_001005735	CHEK2
QG075-01	A12	HQP016131	NM_000321	RB1
QG075-01	B01	HQP004976	NM_000400	ERCC2
QG075-01	B02	HQP004975	NM_202001	ERCC1
QG075-01	B03	HQP002671	NM_000754	COMT
QG075-01	B04	HQP013100	NM_000927	ABCB1
QG075-01	B05	HQP011547	NM_005957	MTHFR
QG075-01	B06	HQP011255	NM_002421	MMP1
QG075-01	B07	HQP003775	NM_000104	CYP1B1
QG075-01	B08	HQP021819	NM_001238	CCNE1
QG075-01	B09	HQP021754	NM_001759	CCND2
QG075-01	B10	HQP016204	NM_053056	CCND1

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QG075-01	B11	HQP011687	NM_002485	NBN
QG075-01	B12	HQP011257	NM_002422	MMP3
QG075-01	C01	HQP011235	NM_000249	MLH1
QG075-01	C02	HQP009670	NM_000600	IL6
QG075-01	C03	HQP003841	NM_000777	CYP3A5
QG075-01	C04	HQP000245	NM_000075	CDK4
QG075-01	C05	HQP018562	NM_006297	XRCC1
QG075-01	C06	HQP017616	NM_000636	SOD2
QG075-01	C07	HQP016087	NM_134424	RAD52
QG075-01	C08	HQP015535	NM_000314	PTEN
QG075-01	C09	HQP013150	NM_006218	PIK3CA
QG075-01	C10	HQP011491	NM_000251	MSH2
QG075-01	C11	HQP009641	NM_000576	IL1B
QG075-01	C12	HQP008493	NM_000179	MSH6
QG075-01	D01	HQP006895	NM_000155	GALT
QG075-01	D02	HQP005002	NM_001437	ESR2
QG075-01	D03	HQP004998	NM_000125	ESR1
QG075-01	D04	HQP003888	NM_000102	CYP17A1
QG075-01	D05	HQP000408	NM_001800	CDKN2D
QG075-01	D06	HQP000396	NM_001262	CDKN2C
QG075-01	D07	HQP000225	NM_001798	CDK2
QG075-01	D08	HQP054054	BC039243	FGFR2
QG075-01	D09	HQP054047	BC008403	HLA-DRB1
QG075-01	D10	HQP018966	NM_001080124	CASP8
QG075-01	D11	HQP018564	NM_005432	XRCC3
QG075-01	D12	HQP018563	NM_005431	XRCC2
QG075-01	E01	HQP017698	NM_000348	SRD5A2
QG075-01	E02	HQP015598	NM_000963	PTGS2
QG075-01	E03	HQP013352	NM_000535	PMS2
QG075-01	E04	HQP013312	NM_000534	PMS1
QG075-01	E05	HQP013104	NM_002634	PHB
QG075-01	E06	HQP011492	NM_002439	MSH3
QG075-01	E07	HQP011320	NM_005590	MRE11A
QG075-01	E08	HQP011135	NM_002392	MDM2
QG075-01	E09	HQP009718	NM_001562	IL18
QG075-01	E10	HQP009685	NM_000572	IL10
QG075-01	E11	HQP009645	NM_000577	IL1RN
QG075-01	E12	HQP009640	NM_000575	IL1A
QG075-01	F01	HQP009544	NM_000598	IGFBP3
QG075-01	F02	HQP009518	NM_000618	IGF1
QG075-01	F03	HQP006435	NM_000145	FSHR
QG075-01	F04	HQP004599	NM_001963	EGF
QG075-01	F05	HQP004411	NM_022552	DNMT3A
QG075-01	F06	HQP003904	NM_000103	CYP19A1
QG075-01	F07	HQP003810	NM_000770	CYP2C8
QG075-01	F08	HQP000274	NM_001259	CDK6
QG075-01	F09	HQP053959	NM_001040	SHBG
QG075-01	F10	HQP023466	NM_004360	CDH1

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QG075-01	F11	HQP022093	NM_004688	NMI
QG075-01	F12	HQP020040	NM_006534	NCOA3
QG075-01	G01	HQP018141	NM_000594	TNF
QG075-01	G02	HQP018044	NM_000660	TGFB1
QG075-01	G03	HQP017811	NM_177536	SULT1A1
QG075-01	G04	HQP016170	NM_021632	ZNF350
QG075-01	G05	HQP016155	NM_002894	RBBP8
QG075-01	G06	HQP016079	NM_002876	RAD51C
QG075-01	G07	HQP015946	NM_000465	BARD1
QG075-01	G08	HQP015596	NM_000962	PTGS1
QG075-01	G09	HQP013473	NM_000446	PON1
QG075-01	G10	HQP013204	NM_002658	PLAU
QG075-01	G11	HQP012154	NM_000602	SERPINE1
QG075-01	G12	HQP011810	NM_020529	NFKBIA
QG075-01	H01	HGDC		
QG075-01	H02	HGDC		
QG075-01	H03	HQP006940	NM_002046	GAPDH
QG075-01	H04	HQP016381	NM_001101	ACTB
QG075-01	H05	HQP015171	NM_004048	B2M
QG075-01	H06	HQP006171	NM_012423	RPL13A
QG075-01	H07	HQP009026	NM_000194	HPRT1
QG075-01	H08	HQP054253	NR_003286	RN18S1
QG075-01	H09	RT		
QG075-01	H10	RT		
QG075-01	H11	PCR		
QG075-01	H12	PCR		
QG075-02	A01	HQP011559	NM_001018016	MUC1
QG075-02	A02	HQP011309	NM_000250	MPO
QG075-02	A03	HQP011266	NM_002426	MMP12
QG075-02	A04	HQP011263	NM_004994	MMP9
QG075-02	A05	HQP011256	NM_004530	MMP2
QG075-02	A06	HQP010613	NM_002312	LIG4
QG075-02	A07	HQP009818	NM_000212	ITGB3
QG075-02	A08	HQP009749	NM_000207	INS
QG075-02	A09	HQP009642	NM_000877	IL1R1
QG075-02	A10	HQP009551	NM_000599	IGFBP5
QG075-02	A11	HQP009539	NM_000596	IGFBP1
QG075-02	A12	HQP009523	NM_000875	IGF1R
QG075-02	B01	HQP009024	NM_000038	APC
QG075-02	B02	HQP008849	NM_002116	HLA-A
QG075-02	B03	HQP006839	NM_020474	GALNT1
QG075-02	B04	HQP005403	NM_002006	FGF2
QG075-02	B05	HQP004948	NM_000120	EPHX1
QG075-02	B06	HQP004605	NM_005228	EGFR
QG075-02	B07	HQP003817	NM_000773	CYP2E1
QG075-02	B08	HQP003811	NM_000771	CYP2C9
QG075-02	B09	HQP003808	NM_000767	CYP2B6
QG075-02	B10	HQP001136	NM_000015	NAT2

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QG075-02	B11	HQP000145	NM_005732	RAD50
QG075-02	B12	HQP015106	NM_001077500	KLK10
QG075-02	C01	HQP013203	NM_033011	PLAT
QG075-02	C02	HQP004985	NM_000123	ERCC5
QG075-02	C03	HQP054691	NM_001159542	POU5F1P1
QG075-02	C04	HQP054057	BC071181	TGFBR1
QG075-02	C05	HQP054045	BC004257	RET
QG075-02	C06	HQP054030	NM_130398	EXO1
QG075-02	C07	HQP053966	NM_005921	MAP3K1
QG075-02	C08	HQP053910	NM_130851	BMP4
QG075-02	C09	HQP023399	NM_004358	CDC25B
QG075-02	C10	HQP023385	NM_001789	CDC25A
QG075-02	C11	HQP023365	NM_001255	CDC20
QG075-02	C12	HQP023132	NM_014705	DOCK4
QG075-02	D01	HQP023013	NM_005101	ISG15
QG075-02	D02	HQP022978	NM_006311	NCOR1
QG075-02	D03	HQP022893	NM_004887	CXCL14
QG075-02	D04	HQP022884	NM_004881	TP53I3
QG075-02	D05	HQP022677	NM_024690	MUC16
QG075-02	D06	HQP022491	NM_001616	ACVR2A
QG075-02	D07	HQP022362	NM_004219	PTTG1
QG075-02	D08	HQP022143	NM_057749	CCNE2
QG075-02	D09	HQP022141	NM_004701	CCNB2
QG075-02	D10	HQP022071	NM_001105	ACVR1
QG075-02	D11	HQP021882	NM_004354	CCNG2
QG075-02	D12	HQP021857	NM_004060	CCNG1
QG075-02	E01	HQP021763	NM_004199	P4HA2
QG075-02	E02	HQP021727	NM_031966	CCNB1
QG075-02	E03	HQP021646	NM_003896	ST3GAL5
QG075-02	E04	HQP021621	NM_003884	PCAF
QG075-02	E05	HQP021610	NM_003882	WISP1
QG075-02	E06	HQP021604	NM_003879	CFLAR
QG075-02	E07	HQP021557	NM_003844	TNFRSF10A
QG075-02	E08	HQP021502	NM_003810	TNFSF10
QG075-02	E09	HQP021456	NM_001040147	SERPINB7
QG075-02	E10	HQP021385	NM_003739	AKR1C3
QG075-02	E11	HQP021368	NM_001075099	SKAP1
QG075-02	E12	HQP021329	NM_003707	RUVBL1
QG075-02	F01	HQP021305	NM_003690	PRKRA
QG075-02	F02	HQP021142	NM_003641	IFITM1
QG075-02	F03	HQP020999	NM_032797	AIFM2
QG075-02	F04	HQP020924	NM_181672	OGT
QG075-02	F05	HQP020798	NM_003592	CUL1
QG075-02	F06	HQP020384	NM_004347	CASP5
QG075-02	F07	HQP020117	NM_004656	BAP1
QG075-02	F08	HQP020116	NM_004655	AXIN2
QG075-02	F09	HQP020042	NM_003489	NRIP1
QG075-02	F10	HQP019539	NM_025072	PTGES2

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QG075-02	F11	HQP019178	NM_001033952	CALCA
QG075-02	F12	HQP018760	NM_003463	PTP4A1
QG075-02	G01	HQP018755	NM_001007257	PRDM2
QG075-02	G02	HQP018568	NM_021141	XRCC5
QG075-02	G03	HQP018565	NM_003401	XRCC4
QG075-02	G04	HQP018556	NM_004628	XPC
QG075-02	G05	HQP018538	NM_003394	WNT10B
QG075-02	G06	HQP018531	NM_003392	WNT5A
QG075-02	G07	HQP018529	NM_003391	WNT2
QG075-02	G08	HQP018488	NM_003379	VIL2
QG075-02	G09	HQP018483	NM_005429	VEGFC
QG075-02	G10	HQP018342	NM_001071	TYMS
QG075-02	G11	HQP018340	NM_003331	TYK2
QG075-02	G12	HQP018328	NM_000474	TWIST1
QG075-02	H01	HGDC		
QG075-02	H02	HGDC		
QG075-02	H03	HQP006940	NM_002046	GAPDH
QG075-02	H04	HQP016381	NM_001101	ACTB
QG075-02	H05	HQP015171	NM_004048	B2M
QG075-02	H06	HQP006171	NM_012423	RPL13A
QG075-02	H07	HQP009026	NM_000194	HPRT1
QG075-02	H08	HQP054253	NR_003286	RN18S1
QG075-02	H09	RT		
QG075-02	H10	RT		
QG075-02	H11	PCR		
QG075-02	H12	PCR		
QG075-03	A01	HQP018149	NM_001066	TNFRSF1B
QG075-03	A02	HQP018145	NM_006290	TNFAIP3
QG075-03	A03	HQP018144	NM_006291	TNFAIP2
QG075-03	A04	HQP018085	NM_005655	KLF10
QG075-03	A05	HQP018072	NM_003248	THBS4
QG075-03	A06	HQP018047	NM_003238	TGFB2
QG075-03	A07	HQP018033	NM_006286	TFDP2
QG075-03	A08	HQP018032	NM_007111	TFDP1
QG075-03	A09	HQP017999	NM_004336	BUB1
QG075-03	A10	HQP017969	NM_005649	ZNF354A
QG075-03	A11	HQP017938	NM_001061	TBXAS1
QG075-03	A12	HQP017844	NM_004335	BST2
QG075-03	B01	HQP017767	NM_003150	STAT3
QG075-03	B02	HQP017764	NM_007315	STAT1
QG075-03	B03	HQP017729	NM_003141	TRIM21
QG075-03	B04	HQP017697	NM_001047	SRD5A1
QG075-03	B05	HQP017673	NM_000582	SPP1
QG075-03	B06	HQP017653	NM_003118	SPARC
QG075-03	B07	HQP017635	NM_000346	SOX9
QG075-03	B08	HQP017623	NM_003104	SORD
QG075-03	B09	HQP017615	NM_000454	SOD1
QG075-03	B10	HQP017300	NM_005983	SKP2

Product Data Sheet

QG075-03	B11	HQP016961	NM_001012398	AKTIP
QG075-03	B12	HQP016801	NM_022162	NOD2
QG075-03	C01	HQP016648	NM_002993	CXCL6
QG075-03	C02	HQP016630	NM_005408	CCL13
QG075-03	C03	HQP016629	NM_002986	CCL11
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QG075-03	C06	HQP016537	NM_002959	SORT1
QG075-03	C07	HQP016500	NM_001032295	SERPING1
QG075-03	C08	HQP016426	NM_021134	MRPL23
QG075-03	C09	HQP016418	NM_004327	BCR
QG075-03	C10	HQP016252	NM_002923	RGS2
QG075-03	C11	HQP016212	NM_000657	BCL2
QG075-03	C12	HQP016172	NM_005611	RBL2
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QG075-03	D02	HQP015828	NM_002827	PTPN1
QG075-03	D03	HQP015610	NM_002820	PTHLH
QG075-03	D04	HQP015586	NM_000961	PTGIS
QG075-03	D05	HQP015555	NM_198714	PTGER3
QG075-03	D06	HQP015540	NM_000955	PTGER1
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QG075-03	D08	HQP015496	NM_001186	BACH1
QG075-03	D09	HQP015184	NM_152278	TCEAL7
QG075-03	D10	HQP014969	NM_004705	PRKRIR
QG075-03	D11	HQP014948	NM_002759	EIF2AK2
QG075-03	D12	HQP014848	NM_002745	MAPK1
QG075-03	E01	HQP014787	NM_018479	ECHDC1
QG075-03	E02	HQP013633	NM_005037	PPARG
QG075-03	E03	HQP013627	NM_006238	PPARD
QG075-03	E04	HQP013596	NM_001184	ATR
QG075-03	E05	HQP013583	NM_205862	UGT1A6
QG075-03	E06	HQP013454	NM_005034	POLR2K
QG075-03	E07	HQP013416	NM_001018111	PODXL
QG075-03	E08	HQP013271	NM_182943	PLOD2
QG075-03	E09	HQP013269	NM_000302	PLOD1
QG075-03	E10	HQP013262	NM_005030	PLK1
QG075-03	E11	HQP013205	NM_001005376	PLAUR
QG075-03	E12	HQP012998	NM_016373	WVOX
QG075-03	F01	HQP012986	NM_016290	UIMC1
QG075-03	F02	HQP012889	NM_002609	PDGFRB
QG075-03	F03	HQP012857	NM_033016	PDGFB
QG075-03	F04	HQP012770	NM_016371	HSD17B7
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QG075-03	F06	HQP012651	NM_016639	TNFRSF12A
QG075-03	F07	HQP012447	NM_016142	HSD17B12
QG075-03	F08	HQP012420	NM_002592	PCNA
QG075-03	F09	HQP012155	NM_002575	SERPINB2
QG075-03	F10	HQP011983	NM_001032409	OAS1

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QG075-03	F11	HQP011955	NM_001014796	DDR2
QG075-03	F12	HQP011932	NM_002526	NT5E
QG075-03	G01	HQP011876	NM_000435	NOTCH3
QG075-03	G02	HQP011868	NM_000603	NOS3
QG075-03	G03	HQP011866	NM_000625	NOS2A
QG075-03	G04	HQP011852	NM_001678	ATP1B2
QG075-03	G05	HQP011812	NM_002503	NFKBIB
QG075-03	G06	HQP011808	NM_001077493	NFKB2
QG075-03	G07	HQP011597	NM_002467	MYC
QG075-03	G08	HQP011582	NM_002462	MX1
QG075-03	G09	HQP011325	NM_019899	ABCC1
QG075-03	G10	HQP011268	NM_004995	MMP14
QG075-03	G11	HQP011220	NM_002416	CXCL9
QG075-03	G12	HQP011187	NM_002404	MFAP4
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QG075-03	H03	HQP006940	NM_002046	GAPDH
QG075-03	H04	HQP016381	NM_001101	ACTB
QG075-03	H05	HQP015171	NM_004048	B2M
QG075-03	H06	HQP006171	NM_012423	RPL13A
QG075-03	H07	HQP009026	NM_000194	HPRT1
QG075-03	H08	HQP054253	NR_003286	RN18S1
QG075-03	H09	RT		
QG075-03	H10	RT		
QG075-03	H11	PCR		
QG075-03	H12	PCR		
QG075-04	A01	HQP011179	NM_002402	MEST
QG075-04	A02	HQP011140	NM_002393	MDM4
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QG075-04	A04	HQP011106	NM_004526	MCM2
QG075-04	A05	HQP011024	NM_016835	MAPT
QG075-04	A06	HQP010996	NM_022438	MAL
QG075-04	A07	HQP010960	NM_005902	SMAD3
QG075-04	A08	HQP010942	NM_002354	TACSTD1
QG075-04	A09	HQP010912	NM_206943	LTBP1
QG075-04	A10	HQP010612	NM_013975	LIG3
QG075-04	A11	HQP010609	NM_000234	LIG1
QG075-04	A12	HQP010390	NM_000425	L1CAM
QG075-04	B01	HQP010125	NM_002266	KPNA2
QG075-04	B02	HQP009941	NM_001657	AREG
QG075-04	B03	HQP009853	NM_002228	JUN
QG075-04	B04	HQP009810	NM_002211	ITGB1
QG075-04	B05	HQP009808	NM_002210	ITGAV
QG075-04	B06	HQP009785	NM_001572	IRF7
QG075-04	B07	HQP009774	NM_000210	ITGA6
QG075-04	B08	HQP009764	NM_000208	INSR
QG075-04	B09	HQP009745	NM_005538	INHBC
QG075-04	B10	HQP009744	NM_002193	INHBB

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QG075-04	B11	HQP009681	NM_001557	IL8RB
QG075-04	B12	HQP009678	NM_000584	IL8
QG075-04	C01	HQP009675	NM_175767	IL6ST
QG075-04	C02	HQP009671	NM_000639	FASLG
QG075-04	C03	HQP009555	NM_002178	IGFBP6
QG075-04	C04	HQP009548	NM_001552	IGFBP4
QG075-04	C05	HQP009541	NM_000597	IGFBP2
QG075-04	C06	HQP009529	NM_000612	IGF2
QG075-04	C07	HQP009408	NM_001548	IFIT1
QG075-04	C08	HQP009393	NM_005533	IFI35
QG075-04	C09	HQP009379	NM_005531	IFI16
QG075-04	C10	HQP009273	NM_002166	ID2
QG075-04	C11	HQP009101	NM_001168	BIRC5
QG075-04	C12	HQP009067	NM_000414	HSD17B4
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QG075-04	D02	HQP009061	NM_001641	APEX1
QG075-04	D03	HQP009036	NM_005343	HRAS
QG075-04	D04	HQP008832	NM_181054	HIF1A
QG075-04	D05	HQP008751	NM_018063	HELLS
QG075-04	D06	HQP008746	NM_001527	HDAC2
QG075-04	D07	HQP008745	NM_004964	HDAC1
QG075-04	D08	HQP008693	NM_005318	H1FO
QG075-04	D09	HQP008616	NM_013369	DNMT3L
QG075-04	D10	HQP008483	NM_000849	GSTM3
QG075-04	D11	HQP008459	NM_002090	CXCL3
QG075-04	D12	HQP008346	NM_014059	C13orf15
QG075-04	E01	HQP008285	NM_002085	GPX4
QG075-04	E02	HQP007781	NM_000406	GNRHR
QG075-04	E03	HQP007421	NM_020547	AMHR2
QG075-04	E04	HQP007382	NM_012449	STEAP1
QG075-04	E05	HQP006992	NM_015557	CHD5
QG075-04	E06	HQP006547	NM_001469	XRCC6
QG075-04	E07	HQP006446	NM_000147	FUCA1
QG075-04	E08	HQP006432	NM_000510	FSHB
QG075-04	E09	HQP006427	NM_001039130	ALOX15B
QG075-04	E10	HQP006368	NM_015368	PANX1
QG075-04	E11	HQP006323	NM_031412	GABARAPL1
QG075-04	E12	HQP006188	NM_005252	FOS
QG075-04	F01	HQP006023	NM_054034	FN1
QG075-04	F02	HQP006010	NM_033071	SYNE1
QG075-04	F03	HQP005663	NM_005250	FOX1
QG075-04	F04	HQP005612	NM_012242	DKK1
QG075-04	F05	HQP005100	NM_000691	ALDH3A1
QG075-04	F06	HQP005098	NM_022725	FANCF
QG075-04	F07	HQP005084	NM_001018115	FANCD2
QG075-04	F08	HQP005083	NM_000136	FANCC
QG075-04	F09	HQP005081	NM_000135	FANCA
QG075-04	F10	HQP005075	NM_000689	ALDH1A1

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QG075-04	F11	HQP005069	NM_000129	F13A1
QG075-04	F12	HQP005058	NM_000130	F5
QG075-04	G01	HQP005052	NM_000506	F2
QG075-04	G02	HQP005003	NM_004451	ESRRA
QG075-04	G03	HQP004995	NM_001626	AKT2
QG075-04	G04	HQP004991	NM_001014431	AKT1
QG075-04	G05	HQP004986	NM_000124	ERCC6
QG075-04	G06	HQP004984	NM_005236	ERCC4
QG075-04	G07	HQP004983	NM_000122	ERCC3
QG075-04	G08	HQP004971	NM_001982	ERBB3
QG075-04	G09	HQP004897	NM_001429	EP300
QG075-04	G10	HQP004677	NM_004096	EIF4EBP2
QG075-04	G11	HQP004613	NM_000399	EGR2
QG075-04	G12	HQP004528	NM_001950	E2F4
QG075-04	H01	HGDC		
QG075-04	H02	HGDC		
QG075-04	H03	HQP006940	NM_002046	GAPDH
QG075-04	H04	HQP016381	NM_001101	ACTB
QG075-04	H05	HQP015171	NM_004048	B2M
QG075-04	H06	HQP006171	NM_012423	RPL13A
QG075-04	H07	HQP009026	NM_000194	HPRT1
QG075-04	H08	HQP054253	NR_003286	RN18S1
QG075-04	H09	RT		
QG075-04	H10	RT		
QG075-04	H11	PCR		
QG075-04	H12	PCR		

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