

ExProfile™ Human Head and Neck Cancer Gene qPCR Array

For focused group profiling of human head and neck cancer related genes expression

Cat. No. QG068-A (6 x 96-well plate, Format A)

Cat. No. QG068-B (6 x 96-well plate, Format B)

Cat. No. QG068-C (6 x 96-well plate, Format C)

Cat. No. QG068-D (6 x 96-well plate, Format D)

Cat. No. QG068-E (6 x 96-well plate, Format E)

Available as 1 set or 6 sets. Each set contains 504 unique gene primers deposited in six 96-well plates.

Introduction

The ExProfile human head and neck cancer gene qPCR array profiles 504 human genes to aberrantly expressed human genes involved in human head and neck 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 head and neck cancer gene array allows researchers to study the cancer-related genes to gain understanding of their roles of genes in head and neck cancer pathogenesis.

- QG068 plate 01: 84 unique gene PCR primer pairs
- QG068 plate 02: 84 unique gene PCR primer pairs
- QG068 plate 03: 84 unique gene PCR primer pairs
- QG068 plate 04: 84 unique gene PCR primer pairs
- QG068 plate 05: 84 unique gene PCR primer pairs
- QG068 plate 06: 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

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	TP53	CYP1A1	XRCC1	ALDH2	CYP2E1	ERCC2	CCND1	MTHFR	ADH1B	ADH1C	NAT2	TNF
B	XRCC3	PTGS2	OGG1	VEGFA	HLA-A	ERCC1	MMP1	IL1B	EPHX1	EGFR	CDKN2A	XPC
C	IL10	NQO1	TYMS	MMP3	MDM2	GSTM3	HLA-DRB1	TGFB1	IL6	KRAS	IL8	EGF
D	NAT1	BRCA2	PIK3CA	ABCB1	MTR	MMP9	MMP2	IL4	CYP3A5	CYP2D6	TP73	RET
E	XRCC5	XRCC2	SULT1A1	MPO	IL18	FASLG	CYP2A13	CYP1B1	ERCC5	DNMT3B	CDH1	XRCC4
F	VHL	VDR	SOD2	BCL2	IL2	IL1RN	ERCC4	TP53BP1	BRAF	SDHB	CXCL12	NFKB1
G	MTRR	AR	IL12B	IL6R	IGF1R	APEX1	HIF1A	FGFR4	ERCC6	ACE	CHEK2	SDHD
H	HGDC	HGDC	GAPDH	ACTB	B2M	RPL13A	HPRT1	RN18S1	RT	RT	PCR	PCR

Figure1. Illustration of QG068 plate 01

	1	2	3	4	5	6	7	8	9	10	11	12
A	CASP8	SPP1	RB1	RAD23B	PTPN13	PTEN	PPARG	NBN	LIG4	LIG3	LIG1	LEP
B	IGFBP3	IGF2	IGF1	BIRC5	HRAS	APC	GSTA2	XRCC6	FHIT	CYP2C9	CYP2C8	COMT
C	CDK6	CDK4	MYCL1	RRM1	ADIPOQ	MBD4	RGS11	RGS5	CASP7	CASP3	AXIN2	TLR10
D	BAT3	TSC1	TNFRSF1B	TAP2	TAP1	SULT1C2	SSTR2	SDHC	RPA1	RGS2	RAD52	XPO5
E	UGT1A7	PON1	PIK3C3	PIK3C2A	PIGR	GHRL	PLCE1	PCNA	GEMIN4	NOS2A	MYC	MSH3
F	MSH2	MMP12	MLH1	LEPR	IL12A	IL8RB	IL8RA	IL1R1	IL1A	HP	GNAS	GH1
G	EIF2C1	NEIL2	FRAP1	ALOX12	JMJD2C	AKT1	AHR	CYP17A1	CYP2C19	CTLA4	PARP1	ADH7
H	HGDC	HGDC	GAPDH	ACTB	B2M	RPL13A	HPRT1	RN18S1	RT	RT	PCR	PCR

Figure2. Illustration of QG068 plate 02

	1	2	3	4	5	6	7	8	9	10	11	12
A	ADH6	ADH4	CCR5	DDX20	SSTR1	NUDT1	GHRHR	FGFRL1	TGFB1	EXO1	SLC29A1	BAG5
B	KLF6	SST	SLC23A1	CDC25C	DLEC1	CDC25A	MRC2	ACYP2	RB1CC1	CDA	SETD1A	CD48
C	RGS6	CHD1L	TP53I3	BAG3	RECQL4	CD14	CD4	PDCD5	LATS1	ANGPTL1	CCNH	LIMD1
D	CCNE1	MBD2	CCNB1	TAX1BP1	NR1I2	PROM1	CFLAR	GGH	NRP1	TNFRSF10A	TNFRSF10B	CBS
E	TNFSF10	ABCC3	ABCB11	AKR1C3	CAV1	RGS8	PKP4	DHX16	CASP4	FZD4	BRAP	EPX
F	CAPN2	NRIP1	CLPTM1L	COL18A1	C13orf18	NHEJ1	TMC5	EHMT1	UGT2A3	FZD3	GTDC1	NEIL1
G	BAT4	FTO	ATG9A	CXCR4	CA9	ZNF24	XDH	WRN	WNT2B	WNT11	UMPS	UBE2E2
H	HGDC	HGDC	GAPDH	ACTB	B2M	RPL13A	HPRT1	RN18S1	RT	RT	PCR	PCR

Figure3. Illustration of QG068 plate 03

Product Data Sheet

	1	2	3	4	5	6	7	8	9	10	11	12
A	TSC2	TNFAIP2	TLR3	TLR1	THBD	BUB1B	TARBP2	TALDO1	SP1	BNIP3L	SMO	SLC19A1
B	SLC10A2	SMYD3	SGCD	SFTPD	MS4A6A	NOD2	BHMT	CCL5	CCL2	RXRA	RPS6KB1	RPS6KA3
C	RPA3	RNASE3	RING1	RGS16	RGS13	RGS10	RGS7	BCL2L2	RGS4	RGS3	REV3L	RBL1
D	RASA1	ALDH18A1	BARD1	PTPRJ	BAK1	KIAA1632	ZNF624	GPR158	PTGS1	PTGIS	RAD18	PDGFC
E	PRKCA	HIF1AN	IL17RB	LAPTM4B	WDR79	DUSP23	PPARD	PPARA	UGT1A4	ATR	UGT1A6	POMC
F	POLR2B	POLB	TLR9	PMS2	PMS1	PLK1	PLAU	PIK3CG	PIK3CB	ATP6V1C1	SERPINI2	ABCB4
G	PGR	SUFU	PDGFRB	PDGFB	DTL	REV1	POLK	CYP39A1	PLUNC	INSIG2	PAK1	SERPINE1
H	HGDC	HGDC	GAPDH	ACTB	B2M	RPL13A	HPRT1	RN18S1	RT	RT	PCR	PCR

Figure4. Illustration of QG068 plate 04

	1	2	3	4	5	6	7	8	9	10	11	12
A	RRM2B	NPY	NOS3	ATP1B1	NFKBIB	NFKBIA	NDUFA6	MYH3	ABCC1	MNAT1	MMP14	MMP10
B	MLL	MET	MEN1	MDM4	MBD1	SMAD7	SMAD3	SMAD2	SMAD1	ARNT	LTBP1	LRMP
C	KDR	ITGB3	ITGA9	ITGA7	IRS1	IRF3	INPPL1	IL15RA	IL15	IL13	IL12RB1	IL5
D	IL4R	IGFBP7	APOE	IGFBP5	IGFBP2	IGFBP1	IFNGR2	IFNGR1	IFNAR2	TNC	HUS1	BIRC4
E	HSD17B4	HSD17B2	HSD17B3	HSD17B1	HSD3B2	HSD3B1	APAF1	HLA-DPA1	CD209	HFE	GUCY2D	PACSIN1
F	ICOS	MSH6	GSTZ1	GSK3B	GRIK1	COX18	SLC9A9	GP1BA	GNB3	GLI2	TNFRSF21	EIF2C2
G	SMC1B	GJB5	GHITM	GHRH	GH2	RGS17	HSPB8	RGS22	SULT4A1	TXN2	ANKK1	GABBR1
H	HGDC	HGDC	GAPDH	ACTB	B2M	RPL13A	HPRT1	RN18S1	RT	RT	PCR	PCR

Figure5. Illustration of QG068 plate 05

	1	2	3	4	5	6	7	8	9	10	11	12
A	RICTOR	ABCA4	IL27	ALOX5	FPGS	SIRT3	SYNE1	KIAA0802	PLCB1	FLT1	FOXP01A	FOXC1
B	FGF9	FGF5	FGF2	FEN1	FCGR2A	FANCD2	FANCA	F13A1	F5	F2	EZH1	ESR1
C	AKT2	ERN1	ERCC3	EPHX2	E2F2	AGT	DRD2	DPYD	UGT3A2	DDB2	CYP27B1	CYP24A1
D	CYP19A1	CYP2F1	CYP2C18	CX3CR1	CTNNB1	CTGF	CSK	E2F7	PARP4	HAPLN1	COL12A1	ADH5
E	CNR1	TOP1MT	GRIN3A	ATG4A	GALNT13	PGLYRP2	POLG2	AKAP10	POLI	RASSF1	LZTS1	CHEK1
F	DID01	ASCC3	POP1	EHMT2	PPARGC1A	ALDH1L1	MTHFD2	CAPN9	RGS14	ATP5L	ARL6IP5	PGRMC2
G	DLC1	NOD1	TLR6	COX4NB	AKR1A1	CDKN2C	MSLN	CDK7	CDK5	AKAP9	CDH2	CDC7
H	HGDC	HGDC	GAPDH	ACTB	B2M	RPL13A	HPRT1	RN18S1	RT	RT	PCR	PCR

Figure6. Illustration of QG068 plate 06

- **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
QG068-01	A01	HQP018175	NM_000546	TP53
QG068-01	A02	HQP003772	NM_000499	CYP1A1
QG068-01	A03	HQP018562	NM_006297	XRCC1
QG068-01	A04	HQP005087	NM_000690	ALDH2
QG068-01	A05	HQP003817	NM_000773	CYP2E1

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QG068-01	A06	HQP004976	NM_000400	ERCC2
QG068-01	A07	HQP016204	NM_053056	CCND1
QG068-01	A08	HQP011547	NM_005957	MTHFR
QG068-01	A09	HQP002331	NM_000668	ADH1B
QG068-01	A10	HQP002413	NM_000669	ADH1C
QG068-01	A11	HQP001136	NM_000015	NAT2
QG068-01	A12	HQP018141	NM_000594	TNF
QG068-01	B01	HQP018564	NM_005432	XRCC3
QG068-01	B02	HQP015598	NM_000963	PTGS2
QG068-01	B03	HQP012021	NM_002542	OGG1
QG068-01	B04	HQP018475	NM_001025366	VEGFA
QG068-01	B05	HQP008849	NM_002116	HLA-A
QG068-01	B06	HQP004975	NM_202001	ERCC1
QG068-01	B07	HQP011255	NM_002421	MMP1
QG068-01	B08	HQP009641	NM_000576	IL1B
QG068-01	B09	HQP004948	NM_000120	EPHX1
QG068-01	B10	HQP004605	NM_005228	EGFR
QG068-01	B11	HQP000370	NM_058195	CDKN2A
QG068-01	B12	HQP018556	NM_004628	XPC
QG068-01	C01	HQP009685	NM_000572	IL10
QG068-01	C02	HQP004317	NM_000903	NQO1
QG068-01	C03	HQP018342	NM_001071	TYMS
QG068-01	C04	HQP011257	NM_002422	MMP3
QG068-01	C05	HQP011135	NM_002392	MDM2
QG068-01	C06	HQP008483	NM_000849	GSTM3
QG068-01	C07	HQP054047	BC008403	HLA-DRB1
QG068-01	C08	HQP018044	NM_000660	TGFB1
QG068-01	C09	HQP009670	NM_000600	IL6
QG068-01	C10	HQP010133	NM_004985	KRAS
QG068-01	C11	HQP009678	NM_000584	IL8
QG068-01	C12	HQP004599	NM_001963	EGF
QG068-01	D01	HQP023467	NM_000662	NAT1
QG068-01	D02	HQP017753	NM_000059	BRCA2
QG068-01	D03	HQP013150	NM_006218	PIK3CA
QG068-01	D04	HQP013100	NM_000927	ABCB1
QG068-01	D05	HQP011554	NM_000254	MTR
QG068-01	D06	HQP011263	NM_004994	MMP9
QG068-01	D07	HQP011256	NM_004530	MMP2
QG068-01	D08	HQP009662	NM_000589	IL4
QG068-01	D09	HQP003841	NM_000777	CYP3A5
QG068-01	D10	HQP003814	NM_000106	CYP2D6
QG068-01	D11	HQP018180	NM_005427	TP73
QG068-01	D12	HQP054045	BC004257	RET
QG068-01	E01	HQP018568	NM_021141	XRCC5
QG068-01	E02	HQP018563	NM_005431	XRCC2
QG068-01	E03	HQP017811	NM_177536	SULT1A1
QG068-01	E04	HQP011309	NM_000250	MPO
QG068-01	E05	HQP009718	NM_001562	IL18

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QG068-01	E06	HQP009671	NM_000639	FASLG
QG068-01	E07	HQP003804	NM_000766	CYP2A13
QG068-01	E08	HQP003775	NM_000104	CYP1B1
QG068-01	E09	HQP004985	NM_000123	ERCC5
QG068-01	E10	HQP004414	NM_006892	DNMT3B
QG068-01	E11	HQP023466	NM_004360	CDH1
QG068-01	E12	HQP018565	NM_003401	XRCC4
QG068-01	F01	HQP018485	NM_000551	VHL
QG068-01	F02	HQP018474	NM_000376	VDR
QG068-01	F03	HQP017616	NM_000636	SOD2
QG068-01	F04	HQP016212	NM_000657	BCL2
QG068-01	F05	HQP009649	NM_000586	IL2
QG068-01	F06	HQP009645	NM_000577	IL1RN
QG068-01	F07	HQP004984	NM_005236	ERCC4
QG068-01	F08	HQP018176	NM_005657	TP53BP1
QG068-01	F09	HQP017733	NM_004333	BRAF
QG068-01	F10	HQP016689	NM_003000	SDHB
QG068-01	F11	HQP016670	NM_001033886	CXCL12
QG068-01	F12	HQP011807	NM_003998	NFKB1
QG068-01	G01	HQP011555	NM_002454	MTRR
QG068-01	G02	HQP009801	NM_000044	AR
QG068-01	G03	HQP009693	NM_002187	IL12B
QG068-01	G04	HQP009672	NM_000565	IL6R
QG068-01	G05	HQP009523	NM_000875	IGF1R
QG068-01	G06	HQP009061	NM_001641	APEX1
QG068-01	G07	HQP008832	NM_181054	HIF1A
QG068-01	G08	HQP005440	NM_022963	FGFR4
QG068-01	G09	HQP004986	NM_000124	ERCC6
QG068-01	G10	HQP004081	NM_000789	ACE
QG068-01	G11	HQP001396	NM_001005735	CHEK2
QG068-01	G12	HQP016706	NM_003002	SDHD
QG068-01	H01	HGDC		
QG068-01	H02	HGDC		
QG068-01	H03	HQP006940	NM_002046	GAPDH
QG068-01	H04	HQP016381	NM_001101	ACTB
QG068-01	H05	HQP015171	NM_004048	B2M
QG068-01	H06	HQP006171	NM_012423	RPL13A
QG068-01	H07	HQP009026	NM_000194	HPRT1
QG068-01	H08	HQP054253	NR_003286	RN18S1
QG068-01	H09	RT		
QG068-01	H10	RT		
QG068-01	H11	PCR		
QG068-01	H12	PCR		
QG068-02	A01	HQP018966	NM_001080124	CASP8
QG068-02	A02	HQP017673	NM_000582	SPP1
QG068-02	A03	HQP016131	NM_000321	RB1
QG068-02	A04	HQP016076	NM_002874	RAD23B
QG068-02	A05	HQP015897	NM_006264	PTPN13

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QG068-02	A06	HQP015535	NM_000314	PTEN
QG068-02	A07	HQP013633	NM_005037	PPARG
QG068-02	A08	HQP011687	NM_002485	NBN
QG068-02	A09	HQP010613	NM_002312	LIG4
QG068-02	A10	HQP010612	NM_013975	LIG3
QG068-02	A11	HQP010609	NM_000234	LIG1
QG068-02	A12	HQP010581	NM_000230	LEP
QG068-02	B01	HQP009544	NM_000598	IGFBP3
QG068-02	B02	HQP009529	NM_000612	IGF2
QG068-02	B03	HQP009518	NM_000618	IGF1
QG068-02	B04	HQP009101	NM_001168	BIRC5
QG068-02	B05	HQP009036	NM_005343	HRAS
QG068-02	B06	HQP009024	NM_000038	APC
QG068-02	B07	HQP008476	NM_000846	GSTA2
QG068-02	B08	HQP006547	NM_001469	XRCC6
QG068-02	B09	HQP005447	NM_002012	FHIT
QG068-02	B10	HQP003811	NM_000771	CYP2C9
QG068-02	B11	HQP003810	NM_000770	CYP2C8
QG068-02	B12	HQP002671	NM_000754	COMT
QG068-02	C01	HQP000274	NM_001259	CDK6
QG068-02	C02	HQP000245	NM_000075	CDK4
QG068-02	C03	HQP011601	NM_005376	MYCL1
QG068-02	C04	HQP054684	NM_001033	RRM1
QG068-02	C05	HQP022625	NM_004797	ADIPOQ
QG068-02	C06	HQP021736	NM_003925	MBD4
QG068-02	C07	HQP021542	NM_003834	RGS11
QG068-02	C08	HQP021023	NM_003617	RGS5
QG068-02	C09	HQP020481	NM_033338	CASP7
QG068-02	C10	HQP020297	NM_004346	CASP3
QG068-02	C11	HQP020116	NM_004655	AXIN2
QG068-02	C12	HQP019982	NM_001017388	TLR10
QG068-02	D01	HQP018983	NM_004639	BAT3
QG068-02	D02	HQP018263	NM_000368	TSC1
QG068-02	D03	HQP018149	NM_001066	TNFRSF1B
QG068-02	D04	HQP017900	NM_000544	TAP2
QG068-02	D05	HQP017899	NM_000593	TAP1
QG068-02	D06	HQP017812	NM_001056	SULT1C2
QG068-02	D07	HQP017744	NM_001050	SSTR2
QG068-02	D08	HQP016694	NM_001035511	SDHC
QG068-02	D09	HQP016389	NM_002945	RPA1
QG068-02	D10	HQP016252	NM_002923	RGS2
QG068-02	D11	HQP016087	NM_134424	RAD52
QG068-02	D12	HQP015667	NM_020750	XPO5
QG068-02	E01	HQP013581	NM_019077	UGT1A7
QG068-02	E02	HQP013473	NM_000446	PON1
QG068-02	E03	HQP013147	NM_002647	PIK3C3
QG068-02	E04	HQP013144	NM_002645	PIK3C2A
QG068-02	E05	HQP013143	NM_002644	PIGR

Product Data Sheet

QG068-02	E06	HQP012996	NM_016362	GHRL
QG068-02	E07	HQP012501	NM_016341	PLCE1
QG068-02	E08	HQP012420	NM_002592	PCNA
QG068-02	E09	HQP012169	NM_015721	GEMIN4
QG068-02	E10	HQP011866	NM_000625	NOS2A
QG068-02	E11	HQP011597	NM_002467	MYC
QG068-02	E12	HQP011492	NM_002439	MSH3
QG068-02	F01	HQP011491	NM_000251	MSH2
QG068-02	F02	HQP011266	NM_002426	MMP12
QG068-02	F03	HQP011235	NM_000249	MLH1
QG068-02	F04	HQP010584	NM_002303	LEPR
QG068-02	F05	HQP009692	NM_000882	IL12A
QG068-02	F06	HQP009681	NM_001557	IL8RB
QG068-02	F07	HQP009679	NM_000634	IL8RA
QG068-02	F08	HQP009642	NM_000877	IL1R1
QG068-02	F09	HQP009640	NM_000575	IL1A
QG068-02	F10	HQP009019	NM_005143	HP
QG068-02	F11	HQP007755	NM_000516	GNAS
QG068-02	F12	HQP007385	NM_000515	GH1
QG068-02	G01	HQP007287	NM_012199	EIF2C1
QG068-02	G02	HQP006460	NM_145043	NEIL2
QG068-02	G03	HQP006426	NM_004958	FRAP1
QG068-02	G04	HQP006356	NM_000697	ALOX12
QG068-02	G05	HQP005736	NM_015061	JMJD2C
QG068-02	G06	HQP004991	NM_001014431	AKT1
QG068-02	G07	HQP004658	NM_001621	AHR
QG068-02	G08	HQP003888	NM_000102	CYP17A1
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QG068-02	H04	HQP016381	NM_001101	ACTB
QG068-02	H05	HQP015171	NM_004048	B2M
QG068-02	H06	HQP006171	NM_012423	RPL13A
QG068-02	H07	HQP009026	NM_000194	HPRT1
QG068-02	H08	HQP054253	NR_003286	RN18S1
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QG068-03	A02	HQP002469	NM_000670	ADH4
QG068-03	A03	HQP002210	NM_000579	CCR5
QG068-03	A04	HQP001416	NM_007204	DDX20
QG068-03	A05	HQP017743	NM_001049	SSTR1

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QG068-03	A06	HQP011544	NM_002452	NUDT1
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QG068-03	B03	HQP023414	NM_005847	SLC23A1
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QG068-03	B05	HQP023387	NM_007335	DLEC1
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QG068-03	B07	HQP023346	NM_006039	MRC2
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QG068-03	B11	HQP023143	NM_014712	SETD1A
QG068-03	B12	HQP023005	NM_001778	CD48
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QG068-03	E01	HQP021502	NM_003810	TNFSF10
QG068-03	E02	HQP021459	NM_003786	ABCC3
QG068-03	E03	HQP021388	NM_003742	ABCB11
QG068-03	E04	HQP021385	NM_003739	AKR1C3
QG068-03	E05	HQP021313	NM_001753	CAV1

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QG068-03	F10	HQP019238	NM_017412	FZD3
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QG068-03	G08	HQP018545	NM_000553	WRN
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QG068-04	A04	HQP018113	NM_003263	TLR1
QG068-04	A05	HQP018067	NM_000361	THBD

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QG068-04	B03	HQP017001	NM_000337	SGCD
QG068-04	B04	HQP016980	NM_003019	SFTPD
QG068-04	B05	HQP016867	NM_022349	MS4A6A
QG068-04	B06	HQP016801	NM_022162	NOD2
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QG068-04	B08	HQP016626	NM_002985	CCL5
QG068-04	B09	HQP016621	NM_002982	CCL2
QG068-04	B10	HQP016526	NM_002957	RXRA
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QG068-04	B12	HQP016470	NM_004586	RPS6KA3
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QG068-04	D07	HQP015699	NM_020787	ZNF624
QG068-04	D08	HQP015669	NM_020752	GPR158
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QG068-04	D10	HQP015586	NM_000961	PTGIS
QG068-04	D11	HQP015190	NM_020165	RAD18
QG068-04	D12	HQP014905	NM_016205	PDGFC
QG068-04	E01	HQP014706	NM_002737	PRKCA
QG068-04	E02	HQP014564	NM_017902	HIF1AN
QG068-04	E03	HQP014454	NM_018725	IL17RB
QG068-04	E04	HQP014362	NM_018407	LAPTM4B
QG068-04	E05	HQP014089	NM_018081	WDR79

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QG068-04	E07	HQP013627	NM_006238	PPARD
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QG068-04	E11	HQP013583	NM_205862	UGT1A6
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QG068-04	F03	HQP013388	NM_017442	TLR9
QG068-04	F04	HQP013352	NM_000535	PMS2
QG068-04	F05	HQP013312	NM_000534	PMS1
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QG068-04	F08	HQP013154	NM_002649	PIK3CG
QG068-04	F09	HQP013151	NM_006219	PIK3CB
QG068-04	F10	HQP013149	NM_001695	ATP6V1C1
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QG068-04	G04	HQP012857	NM_033016	PDGFB
QG068-04	G05	HQP012796	NM_016448	DTL
QG068-04	G06	HQP012755	NM_001037872	REV1
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QG068-04	G08	HQP012613	NM_016593	CYP39A1
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QG068-04	G10	HQP012444	NM_016133	INSIG2
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QG068-05	A03	HQP011868	NM_000603	NOS3
QG068-05	A04	HQP011841	NM_001677	ATP1B1
QG068-05	A05	HQP011812	NM_002503	NFKBIB

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QG068-05	A06	HQP011810	NM_020529	NFKBIA
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QG068-05	A11	HQP011268	NM_004995	MMP14
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QG068-05	B02	HQP011181	NM_000245	MET
QG068-05	B03	HQP011171	NM_000244	MEN1
QG068-05	B04	HQP011140	NM_002393	MDM4
QG068-05	B05	HQP011073	NM_015844	MBD1
QG068-05	B06	HQP010966	NM_005904	SMAD7
QG068-05	B07	HQP010960	NM_005902	SMAD3
QG068-05	B08	HQP010959	NM_001003652	SMAD2
QG068-05	B09	HQP010958	NM_001003688	SMAD1
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QG068-05	D11	HQP009138	NM_004507	HUS1
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QG068-05	E12	HQP008669	NM_020804	PACSN1
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QG068-06	A04	HQP006359	NM_000698	ALOX5
QG068-06	A05	HQP006228	NM_001018078	FPGS

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QG068-06	A12	HQP005629	NM_001453	FOXC1
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QG068-06	B03	HQP005403	NM_002006	FGF2
QG068-06	B04	HQP005391	NM_004111	FEN1
QG068-06	B05	HQP005280	NM_021642	FCGR2A
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QG068-06	C07	HQP004446	NM_000795	DRD2
QG068-06	C08	HQP004439	NM_000110	DPYD
QG068-06	C09	HQP004187	NM_174914	UGT3A2
QG068-06	C10	HQP004114	NM_000107	DDB2
QG068-06	C11	HQP003923	NM_000785	CYP27B1
QG068-06	C12	HQP003917	NM_000782	CYP24A1
QG068-06	D01	HQP003904	NM_000103	CYP19A1
QG068-06	D02	HQP003818	NM_000774	CYP2F1
QG068-06	D03	HQP003813	NM_000772	CYP2C18
QG068-06	D04	HQP003691	NM_001337	CX3CR1
QG068-06	D05	HQP003539	NM_001904	CTNNB1
QG068-06	D06	HQP003488	NM_001901	CTGF
QG068-06	D07	HQP003218	NM_004383	CSK
QG068-06	D08	HQP003209	NM_203394	E2F7
QG068-06	D09	HQP003171	NM_006437	PARP4
QG068-06	D10	HQP003013	NM_001884	HAPLN1
QG068-06	D11	HQP002612	NM_004370	COL12A1
QG068-06	D12	HQP002542	NM_000671	ADH5
QG068-06	E01	HQP002408	NM_016083	CNR1
QG068-06	E02	HQP001889	NM_052963	TOP1MT
QG068-06	E03	HQP001887	NM_133445	GRIN3A
QG068-06	E04	HQP001778	NM_178270	ATG4A
QG068-06	E05	HQP001712	NM_052917	GALNT13

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QG068-06	E06	HQP001682	NM_052890	PGLYRP2
QG068-06	E07	HQP001429	NM_007215	POLG2
QG068-06	E08	HQP001414	NM_007202	AKAP10
QG068-06	E09	HQP001399	NM_007195	POLI
QG068-06	E10	HQP001374	NM_007182	RASSF1
QG068-06	E11	HQP001362	NM_021020	LZTS1
QG068-06	E12	HQP001282	NM_001274	CHEK1
QG068-06	F01	HQP001244	NM_022105	DIDO1
QG068-06	F02	HQP001111	NM_006828	ASCC3
QG068-06	F03	HQP001072	NM_015029	POP1
QG068-06	F04	HQP001051	NM_025256	EHMT2
QG068-06	F05	HQP001016	NM_013261	PPARGC1A
QG068-06	F06	HQP000963	NM_012190	ALDH1L1
QG068-06	F07	HQP000932	NM_006636	MTHFD2
QG068-06	F08	HQP000888	NM_006615	CAPN9
QG068-06	F09	HQP000771	NM_006480	RGS14
QG068-06	F10	HQP000765	NM_006476	ATP5L
QG068-06	F11	HQP000657	NM_006407	ARL6IP5
QG068-06	F12	HQP000508	NM_006320	PGRMC2
QG068-06	G01	HQP000462	NM_006094	DLC1
QG068-06	G02	HQP000459	NM_006092	NOD1
QG068-06	G03	HQP000415	NM_006068	TLR6
QG068-06	G04	HQP000406	NM_006067	COX4NB
QG068-06	G05	HQP000405	NM_006066	AKR1A1
QG068-06	G06	HQP000396	NM_001262	CDKN2C
QG068-06	G07	HQP000289	NM_013404	MSLN
QG068-06	G08	HQP000285	NM_001799	CDK7
QG068-06	G09	HQP000261	NM_004935	CDK5
QG068-06	G10	HQP000179	NM_147185	AKAP9
QG068-06	G11	HQP000018	NM_001792	CDH2
QG068-06	G12	HQP020119	NM_003503	CDC7
QG068-06	H01	HGDC		
QG068-06	H02	HGDC		
QG068-06	H03	HQP006940	NM_002046	GAPDH
QG068-06	H04	HQP016381	NM_001101	ACTB
QG068-06	H05	HQP015171	NM_004048	B2M
QG068-06	H06	HQP006171	NM_012423	RPL13A
QG068-06	H07	HQP009026	NM_000194	HPRT1
QG068-06	H08	HQP054253	NR_003286	RN18S1
QG068-06	H09	RT		
QG068-06	H10	RT		
QG068-06	H11	PCR		
QG068-06	H12	PCR		

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