ExProfile™ Human Mood Disorder Related Gene qPCR Array

For focused group profiling of human mood disorder disease genes expression

Cat. No. QG083-A (4 x 96-well plate, Format A)
Cat. No. QG083-B (4 x 96-well plate, Format B)
Cat. No. QG083-C (4 x 96-well plate, Format C)
Cat. No. QG083-D (4 x 96-well plate, Format D)
Cat. No. QG083-E (4 x 96-well plate, Format E)

Plates available individually or as a set of 6. Each set contains 336 unique gene primer pairs deposited in one 96-well plate.

Introduction

The ExProfile human mood disorder related gene qPCR array profiles the expression of 336 human genes related to mood disorder. These genes are carefully chosen for their close correlation based on a thorough literature search of peer-reviewed publications, mainly including key genes associated with bipolar affective disorder, schizophrenia and other mood disorders. This array allows researchers to study the related genes to gain understanding of their roles in the functioning and characterization of mood disorder.

- QG083 plate 01: 84 unique gene PCR primer pairs
- QG083 plate 02: 84 unique gene PCR primer pairs
- QG083 plate 03: 84 unique gene PCR primer pairs
- QG083 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℃

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™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™

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	TRPV6	TRPM2	TRIP12	TRAF3IP1	TRAF1	TPH2	TPH1	TNF	TLE1	THRA	TGIF1	TGFB1
B	TFAP2B	TFAP2A	TF	TCF7	TCF4	SYN3	SYBL1	SULT1A1	STAR	ST8SIA2	SST	SPTBN4
C	SPTAN1	SPR	SOX10	SOD1	SNAP29	SMARCE1	SLC6A4	SLC6A2	SLC5A3	SLC18A1	SLC15A1	SFMBT2
D	SCG2	SAT1	S100A9	RUNX2	RTN4	RNF2	RIPK1	RGS4	RELN	RELA	RAP1GAP	RANBP9
E	RAB7A	PURA	PTGS2	PSMD8	PSMC6	PRKD3	PRKCZ	PRKCQ	PRKCI	PRKCG	PRKCD	PRKCB1
F	PRKCA	PRKACA	PREP	PPP2R5C	PPP2R2C	PPIE	PPFIA4	POLG	PLSCR4	PLP1	PLLP	PLCG1
G	PLA2G4C	PLA2G4A	PLA2G3	PLA2G2A	PLA2G1B	PITPNB	PIP5K2A	PIK4CB	PIK4CA	PIK3C3	PGK1	PFN2
H	**HGDC**	**HGDC**	**GAPDH**	**ACTB**	**B2M**	**RPL13A**	**HPRT1**	**RN18S1**	**RT**	**RT**	**PCR**	**PCR**

Figure1. Illustration of QG083 plate 01

	1	2	3	4	5	6	7	8	9	10	11	12
A	PER3	PDE4D	PCNT	PCGF2	PAX5	PAWR	PARP1	PAFAH1B1	P2RX7	OTX2	NTRK1	NTF3
B	NRG1	NR3C1	NR1D1	NPY	NPAS2	NOS3	NOS1AP	NFKBIB	NFKB2	NFKB1	NDUFV2	NDUFV1
C	NDUFS8	NDUFS7	NDEL1	NAPG	MYC	MTRR	MTR	MTHFR	MOBP	MLC1	MERTK	ME2
D	MC5R	MBP	MAPK3	MAPK1	MAP1A	MAOA	MAL	LTA	LIN7A	LEF1	LARS2	KCNQ2
E	KCNN3	KCNK1	KATNB1	KATNAL1	KALRN	JUN	ITSN1	ITPR1	ISYNA1	INPP1	IMPA2	IMPA1
F	IL9R	IL6	IL2RB	IL1RN	IL1B	IL18	IGFBP2	IGF1	HTR3A	HTR2C	HTR2A	HTR1D
G	HTR1B	HSPA5	HSP90B1	HLA-DRA	HIP1R	HDAC1	GZMB	GSK3B	GRM4	GRM3	GRIN2D	GRIN2A
H	**HGDC**	**HGDC**	**GAPDH**	**ACTB**	**B2M**	**RPL13A**	**HPRT1**	**RN18S1**	**RT**	**RT**	**PCR**	**PCR**

Figure2. Illustration of QG083 plate 02

	1	2	3	4	5	6	7	8	9	10	11	12
A	GRIN1	GRIK4	GRIA1	GPX2	GPX1	GPC5	GOLGA2	GNB1L	GNAS	GFAP	GCH1	GALC
B	GAD1	GABRG2	GABRA5	GABRA1	G6PD	FZD3	FOSL1	FOS	FKBP5	FEZ1	FDFT1	FAT
C	FASLG	FAS	EZH2	ESR2	ESR1	ERBB3	EPB49	EP300	ENPP2	EMX2	EIF3S3	EIF2S2
D	EIF2S1	EIF2B1	EGFR	EED	EDG2	DUSP6	DTNBP1	DRD5	DRD4	DRD2	DRD1	DPYSL2
E	DOCK9	DNAJB1	DLG4	DISC1	DIDO1	DGKH	DBP	DAO	CXCL2	CX3CL1	CUTL2	CTBP1
F	CRTC1	CRHBP	CREBBP	CREB1	CPT2	COX6C	COX5A	COMT	CNP	CLOCK	CLDN11	CKM
G	CHUK	CHRNA7	CHRNA1	CHRM2	CEP290	CCND3	CCND2	CCND1	CCL3L1	CCL13	CCKAR	CBX2
H	**HGDC**	**HGDC**	**GAPDH**	**ACTB**	**B2M**	**RPL13A**	**HPRT1**	**RN18S1**	**RT**	**RT**	**PCR**	**PCR**

Figure3. Illustration of QG083 plate 03

	1	2	3	4	5	6	7	8	9	10	11	12
A	CASP8	CASP6	CASP2	CAMKK2	CALR	BPNT1	BMI1	BID	BCR	BCL2	BAX	BAK1
B	AVPR1B	ATXN1	ATP5J	ATP2A2	ATP1A3	ATM	ATF7IP	ATF5	ASPA	AR	APOL2	APOE
C	APAF1	ANKHD1	ALOX5	ALOX12	ALG9	AKT1	AGXT2L1	ADSS	ADRBK2	ADCY9	ACTN2	ACE
D	REG3A	SYNGR1	TBX1	TIMELESS	MOG	OLIG2	PENK	PRKACB	SYNJ1	TNNT1	ABCG1	ADARB1
E	ADCYAP1	ADRA1B	PLA2G4B	ATP5C1	ATP5G3	BDNF	CHMP1B	PLA2G4D	CLCF1	CRH	DIO2	DNMT1
F	DRD3	PMP22	GABRA3	GRIK3	HPR	HSPA12A	HTR1A	HTR4	IMMT	KCNQ5	KLK6	PRF1
G	MGAT3	MTHFD1	NCAM1	NDE1	NEDD4L	NTRK2	NUDT4	OLIG1	PAFAH1B3	PDLIM5	PER1	PER2
H	**HGDC**	**HGDC**	**GAPDH**	**ACTB**	**B2M**	**RPL13A**	**HPRT1**	**RN18S1**	**RT**	**RT**	**PCR**	**PCR**

Figure4. Illustration of QG083 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
QG083-01	A01	HQP014423	NM_018646	TRPV6
QG083-01	A02	HQP018256	NM_001001188	TRPM2
QG083-01	A03	HQP022528	NM_004238	TRIP12
QG083-01	A04	HQP007081	NM_015650	TRAF3IP1
QG083-01	A05	HQP018232	NM_005658	TRAF1
QG083-01	A06	HQP002121	NM_173353	TPH2
QG083-01	A07	HQP018195	NM_004179	TPH1

QG083-01	A08	HQP018141	NM_000594	TNF
QG083-01	A09	HQP018104	NM_005077	TLE1
QG083-01	A10	HQP018077	NM_003250	THRA
QG083-01	A11	HQP018056	NM_003244	TGIF1
QG083-01	A12	HQP018044	NM_000660	TGFB1
QG083-01	B01	HQP018026	NM_003221	TFAP2B
QG083-01	B02	HQP018023	NM_001032280	TFAP2A
QG083-01	B03	HQP018020	NM_001063	TF
QG083-01	B04	HQP017958	NM_003202	TCF7
QG083-01	B05	HQP017951	NM_003199	TCF4
QG083-01	B06	HQP020054	NM_003490	SYN3
QG083-01	B07	HQP017841	NM_005638	SYBL1
QG083-01	B08	HQP017810	NM_001055	SULT1A1
QG083-01	B09	HQP017762	NM_000349	STAR
QG083-01	B10	HQP019846	NM_006011	ST8SIA2
QG083-01	B11	HQP053963	NM_001048	SST
QG083-01	B12	HQP015850	NM_020971	SPTBN4
QG083-01	C01	HQP017688	NM_003127	SPTAN1
QG083-01	C02	HQP017676	NM_003124	SPR
QG083-01	C03	HQP017636	NM_006941	SOX10
QG083-01	C04	HQP017615	NM_000454	SOD1
QG083-01	C05	HQP022567	NM_004782	SNAP29
QG083-01	C06	HQP017556	NM_003079	SMARCE1
QG083-01	C07	HQP053962	NM_001045	SLC6A4
QG083-01	C08	HQP017397	NM_001043	SLC6A2
QG083-01	C09	HQP017388	NM_006933	SLC5A3
QG083-01	C10	HQP017478	NM_003053	SLC18A1
QG083-01	C11	HQP017471	NM_005073	SLC15A1
QG083-01	C12	HQP015830	NM_001029880	SFMBT2
QG083-01	D01	HQP018805	NM_003469	SCG2
QG083-01	D02	HQP016572	NM_002970	SAT1
QG083-01	D03	HQP016548	NM_002965	S100A9
QG083-01	D04	HQP016478	NM_001015051	RUNX2
QG083-01	D05	HQP015432	NM_007008	RTN4
QG083-01	D06	HQP016307	NM_007212	RNF2
QG083-01	D07	HQP021492	NM_003804	RIPK1
QG083-01	D08	HQP016259	NM_005613	RGS4
QG083-01	D09	HQP015094	NM_005045	RELN
QG083-01	D10	HQP016213	NM_021975	RELA
QG083-01	D11	HQP016107	NM_002885	RAP1GAP
QG083-01	D12	HQP000062	NM_005493	RANBP9

QG083-01	E01	HQP018819	NM_004637	RAB7A
QG083-01	E02	HQP015948	NM_005859	PURA
QG083-01	E03	HQP015598	NM_000963	PTGS2
QG083-01	E04	HQP015444	NM_002812	PSMD8
QG083-01	E05	HQP015369	NM_002806	PSMC6
QG083-01	E06	HQP006319	NM_005813	PRKD3
QG083-01	E07	HQP014829	NM_001033581	PRKCZ
QG083-01	E08	HQP014804	NM_006257	PRKCQ
QG083-01	E09	HQP014771	NM_002740	PRKCI
QG083-01	E10	HQP014751	NM_002739	PRKCG
QG083-01	E11	HQP014731	NM_006254	PRKCD
QG083-01	E12	HQP014718	NM_002738	PRKCB1
QG083-01	F01	HQP014706	NM_002737	PRKCA
QG083-01	F02	HQP014575	NM_002730	PRKACA
QG083-01	F03	HQP014431	NM_002726	PREP
QG083-01	F04	HQP014262	NM_002719	PPP2R5C
QG083-01	F05	HQP014202	NM_020416	PPP2R2C
QG083-01	F06	HQP000535	NM_006112	PPIE
QG083-01	F07	HQP021090	NM_015053	PPFIA4
QG083-01	F08	HQP013428	NM_002693	POLG
QG083-01	F09	HQP015379	NM_020353	PLSCR4
QG083-01	F10	HQP013272	NM_000533	PLP1
QG083-01	F11	HQP012381	NM_015993	PLLP
QG083-01	F12	HQP013238	NM_002660	PLCG1
QG083-01	G01	HQP021328	NM_003706	PLA2G4C
QG083-01	G02	HQP013195	NM_024420	PLA2G4A
QG083-01	G03	HQP012134	NM_015715	PLA2G3
QG083-01	G04	HQP013194	NM_000300	PLA2G2A
QG083-01	G05	HQP013193	NM_000928	PLA2G1B
QG083-01	G06	HQP006336	NM_012399	PITPNB
QG083-01	G07	HQP013171	NM_005028	PIP5K2A
QG083-01	G08	HQP013161	NM_002651	PIK4CB
QG083-01	G09	HQP013159	NM_002650	PIK4CA
QG083-01	G10	HQP013147	NM_002647	PIK3C3
QG083-01	G11	HQP013093	NM_000291	PGK1
QG083-01	G12	HQP013080	NM_002628	PFN2
QG083-01	H01	HGDC		
QG083-01	H02	HGDC		
QG083-01	H03	HQP006940	NM_002046	GAPDH
QG083-01	H04	HQP016381	NM_001101	ACTB
QG083-01	H05	HQP015171	NM_004048	B2M

QG083-01	H06	HQP006171	NM_012423	RPL13A
QG083-01	H07	HQP009026	NM_000194	HPRT1
QG083-01	H08	HQP054253	NR_003286	RN18S1
QG083-01	H09	RT		
QG083-01	H10	RT		
QG083-01	H11	PCR		
QG083-01	H12	PCR		
QG083-02	A01	HQP021640	NM_016831	PER3
QG083-02	A02	HQP012750	NM_006203	PDE4D
QG083-02	A03	HQP012474	NM_006031	PCNT
QG083-02	A04	HQP018681	NM_007144	PCGF2
QG083-02	A05	HQP012212	NM_016734	PAX5
QG083-02	A06	HQP012197	NM_002583	PAWR
QG083-02	A07	HQP003120	NM_001618	PARP1
QG083-02	A08	HQP012140	NM_000430	PAFAH1B1
QG083-02	A09	HQP012100	NM_002562	P2RX7
QG083-02	A10	HQP012085	NM_021728	OTX2
QG083-02	A11	HQP011938	NM_001007792	NTRK1
QG083-02	A12	HQP011933	NM_002527	NTF3
QG083-02	B01	HQP008818	NM_004495	NRG1
QG083-02	B02	HQP008401	NM_000176	NR3C1
QG083-02	B03	HQP022925	NM_021724	NR1D1
QG083-02	B04	HQP011874	NM_000905	NPY
QG083-02	B05	HQP011885	NM_002518	NPAS2
QG083-02	B06	HQP011868	NM_000603	NOS3
QG083-02	B07	HQP023119	NM_014697	NOS1AP
QG083-02	B08	HQP011811	NM_001001716	NFKBIB
QG083-02	B09	HQP011808	NM_001077493	NFKB2
QG083-02	B10	HQP011807	NM_003998	NFKB1
QG083-02	B11	HQP011735	NM_021074	NDUFV2
QG083-02	B12	HQP011730	NM_007103	NDUFV1
QG083-02	C01	HQP011734	NM_002496	NDUFS8
QG083-02	C02	HQP009875	NM_024407	NDUFS7
QG083-02	C03	HQP019903	NM_001025579	NDEL1
QG083-02	C04	HQP021529	NM_003826	NAPG
QG083-02	C05	HQP011597	NM_002467	MYC
QG083-02	C06	HQP011555	NM_002454	MTRR
QG083-02	C07	HQP011554	NM_000254	MTR
QG083-02	C08	HQP011547	NM_005957	MTHFR
QG083-02	C09	HQP011281	NM_182935	MOBP
QG083-02	C10	HQP005868	NM_015166	MLC1

QG083-02	C11	HQP000555	NM_006343	MERTK
QG083-02	C12	HQP011146	NM_002396	ME2
QG083-02	D01	HQP011098	NM_005913	MC5R
QG083-02	D02	HQP011085	NM_001025081	MBP
QG083-02	D03	HQP014854	NM_001040056	MAPK3
QG083-02	D04	HQP014848	NM_002745	MAPK1
QG083-02	D05	HQP011010	NM_002373	MAP1A
QG083-02	D06	HQP011007	NM_000240	MAOA
QG083-02	D07	HQP010995	NM_002371	MAL
QG083-02	D08	HQP010907	NM_000595	LTA
QG083-02	D09	HQP021587	NM_004664	LIN7A
QG083-02	D10	HQP012480	NM_016269	LEF1
QG083-02	D11	HQP006061	NM_015340	LARS2
QG083-02	D12	HQP010049	NM_004518	KCNQ2
QG083-02	E01	HQP010041	NM_002249	KCNN3
QG083-02	E02	HQP010024	NM_002245	KCNK1
QG083-02	E03	HQP000373	NM_005886	KATNB1
QG083-02	E04	HQP020437	NM_001014380	KATNAL1
QG083-02	E05	HQP021838	NM_001024660	KALRN
QG083-02	E06	HQP009853	NM_002228	JUN
QG083-02	E07	HQP017035	NM_001001132	ITSN1
QG083-02	E08	HQP009842	NM_002222	ITPR1
QG083-02	E09	HQP012769	NM_016368	ISYNA1
QG083-02	E10	HQP009747	NM_002194	INPP1
QG083-02	E11	HQP009727	NM_014214	IMPA2
QG083-02	E12	HQP009726	NM_005536	IMPA1
QG083-02	F01	HQP009683	NM_002186	IL9R
QG083-02	F02	HQP009670	NM_000600	IL6
QG083-02	F03	HQP009658	NM_000878	IL2RB
QG083-02	F04	HQP009645	NM_000577	IL1RN
QG083-02	F05	HQP009641	NM_000576	IL1B
QG083-02	F06	HQP009718	NM_001562	IL18
QG083-02	F07	HQP009541	NM_000597	IGFBP2
QG083-02	F08	HQP009518	NM_000618	IGF1
QG083-02	F09	HQP009123	NM_000869	HTR3A
QG083-02	F10	HQP009122	NM_000868	HTR2C
QG083-02	F11	HQP009120	NM_000621	HTR2A
QG083-02	F12	HQP009117	NM_000864	HTR1D
QG083-02	G01	HQP009116	NM_000863	HTR1B
QG083-02	G02	HQP009083	NM_005347	HSPA5
QG083-02	G03	HQP018231	NM_003299	HSP90B1

QG083-02	G04	HQP008866	NM_019111	HLA-DRA
QG083-02	G05	HQP021900	NM_003959	HIP1R
QG083-02	G06	HQP008745	NM_004964	HDAC1
QG083-02	G07	HQP008690	NM_004131	GZMB
QG083-02	G08	HQP008469	NM_002093	GSK3B
QG083-02	G09	HQP008449	NM_000841	GRM4
QG083-02	G10	HQP008448	NM_000840	GRM3
QG083-02	G11	HQP008380	NM_000836	GRIN2D
QG083-02	G12	HQP008371	NM_000833	GRIN2A
QG083-02	H01	HGDC		
QG083-02	H02	HGDC		
QG083-02	H03	HQP006940	NM_002046	GAPDH
QG083-02	H04	HQP016381	NM_001101	ACTB
QG083-02	H05	HQP015171	NM_004048	B2M
QG083-02	H06	HQP006171	NM_012423	RPL13A
QG083-02	H07	HQP009026	NM_000194	HPRT1
QG083-02	H08	HQP054253	NR_003286	RN18S1
QG083-02	H09	RT		
QG083-02	H10	RT		
QG083-02	H11	PCR		
QG083-02	H12	PCR		
QG083-03	A01	HQP008367	NM_000832	GRIN1
QG083-03	A02	HQP008363	NM_014619	GRIK4
QG083-03	A03	HQP008302	NM_000827	GRIA1
QG083-03	A04	HQP008281	NM_002083	GPX2
QG083-03	A05	HQP008279	NM_000581	GPX1
QG083-03	A06	HQP005436	NM_004466	GPC5
QG083-03	A07	HQP007788	NM_004486	GOLGA2
QG083-03	A08	HQP013589	NM_053004	GNB1L
QG083-03	A09	HQP007755	NM_000516	GNAS
QG083-03	A10	HQP007360	NM_002055	GFAP
QG083-03	A11	HQP007235	NM_000161	GCH1
QG083-03	A12	HQP006750	NM_000153	GALC
QG083-03	B01	HQP006683	NM_000817	GAD1
QG083-03	B02	HQP006651	NM_000816	GABRG2
QG083-03	B03	HQP006613	NM_000810	GABRA5
QG083-03	B04	HQP006599	NM_000806	GABRA1
QG083-03	B05	HQP006515	NM_000402	G6PD
QG083-03	B06	HQP019238	NM_017412	FZD3
QG083-03	B07	HQP019708	NM_005438	FOSL1
QG083-03	B08	HQP006188	NM_005252	FOS

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QG083-04	H04	HQP016381	NM_001101	ACTB

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QG083-04	H07	HQP009026	NM_000194	HPRT1
QG083-04	H08	HQP054253	NR_003286	RN18S1
QG083-04	H09	RT		
QG083-04	H10	RT		
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GeneCopoeia, Inc.
9620 Medical Center Drive, Suite 101
Rockville, MD 20850
+1 (301) 762-0888
+1 (866) 360-9531
inquiry@genecopoeia.com