

GrandPerformance

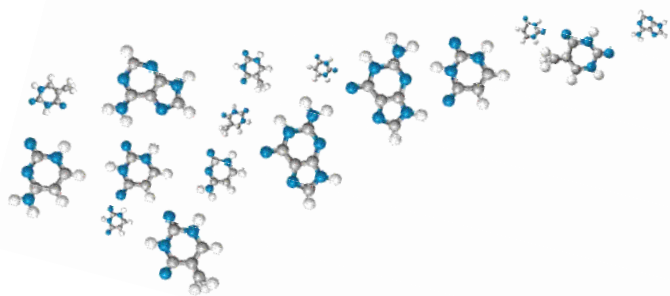
Probe based CTC assay panel

- Wet-lab validated probe assays
- Preamp validated to not introduce bias
- Probe assays included for free in qPCR profiling service

Highly optimized

Being specialized in high performance qPCR, leading the development of single cell expression profiling, TATAA is developing highly specific, highly sensitive and extensively optimized qPCR assays for optimum performance. The GrandPerformance assays produce negligible primer-dimers and side products under normal conditions and are the perfect tool for high performance expression profiling. Customers can pick and choose compiling their preferred panels for profiling studies and order the assays or send TATAA the samples for profiling. When samples are sent to TATAA for profiling the TATAA GrandPerformance assays are provided for free. The assays for our cancer panel are listed in the table below.

Assay Name	Gene Name	Assay Name	Gene Name
ADAM17	ADAM metallopeptidase domain 17	CYP11A1	cytochrome P450, family 11, subfamily A, polypeptide 1
AGR2	anterior gradient 2	CYP17A1	cytochrome P450, family 17, subfamily A, polypeptide 1
AHR	aryl hydrocarbon receptor	CYP19A1	cytochrome P450, family 19, subfamily A, polypeptide 1
AKR1C3	aldo-keto reductase family 1, member C3	DDR1	discoidin domain receptor tyrosine kinase 1
AKT2	v-akt murine thymoma viral oncogene homolog 2	EGFR	epidermal growth factor receptor
ALDH	aldehyde dehydrogenase 1 family, member A1	EMP2	epithelial membrane protein 2
ANXA2R	annexin A2 receptor	EPCAM	epithelial cell adhesion molecule
AR	androgen receptor	ERBB2	v-erb-b2 erythroblastic leukemia viral oncogene homolog 2
ARV7	androgen receptor splice variant 7	ESR1	estrogen receptor 1 (ESR1)
AURKA	aurora kinase A	ESR2	estrogen receptor 2
BCL2	B-cell CLL/lymphoma 2	FOLH1	folate hydrolase (prostate-specific membrane antigen) 1
CCND1	cyclin D1	FOXO	forkhead box O3
CCNE2	cyclin E2	H2AFZ	H2A histone family, member Z
CD24L4	CD24 molecule	HDAC2	histone deacetylase 2
CD44_all	CD44 molecule (Indian blood group)	Hjrp	Holliday junction recognition protein
CD45 / PTPRC	protein tyrosine phosphatase, receptor type, C	HOXB13	Homeobox B13
CDH1_1	cadherin 1, type 1, E-cadherin (epithelial)	IBSP_1	integrin-binding sialoprotein
CDH11	cadherin 11, type 2, OB-cadherin	IGFR	insulin-like growth factor 1 receptor
CDH2	cadherin 2, type 1, N-cadherin	KI67	antigen identified by monoclonal antibody Ki-67
CTSD	cathepsin D	KIT_1	v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene hlg
CXCR4	chemokine (C-X-C motif) receptor 4	KLK3	kallikrein-related peptidase 3



Assay Name	Gene Name	Assay Name	Gene Name
KRAS	v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog	SNAI1	snail family zinc finger 1
KRT19	Keratin 19	SPINK1	serine peptidase inhibitor, Kazal type 1
MAL2	mal, T-cell differentiation protein 2 (gene/pseudogene)	SRD5A1	steroid-5-alpha-reductase, alpha polypeptide 1
MCL1	myeloid cell leukemia sequence 1	STAT3	signal transducer and activator of transcription
MCM4	minichromosome maintenance complex component 4	TACSTD2	tumor-associated calcium signal transducer 2
MDK	midkine (neurite growth-promoting factor 2)	TNFSF11	tumor necrosis factor (ligand) superfamily, member 11
MET_1	met proto-oncogene	TOP2A	topoisomerase (DNA) II alpha
MRP1	ATP-binding cassette, sub-family C (CFTR/MRP), member 1	TP53	tumor protein p53
MRP2	ATP-binding cassette, sub-family C (CFTR/MRP), member 2	TUBB3	tubulin, beta 3 class III
MRP4	ATP-binding cassette, sub-family C (CFTR/MRP), member 4	Twist1	twist family bHLH transcription factor 1
MRP5	ATP-binding cassette, sub-family C (CFTR/MRP), member 5	UPA	plasminogen activator, urokinase
MTOR	mechanistic target of rapamycin (serine/threonine kinase)	VEGFA	vascular endothelial growth factor A
MUC1	mucin 1, cell surface associated	VEGFR1	fms-related tyrosine kinase 1
Myc	v-myc avian myelocytomatosis viral oncogene homolog	VEGFR2	kinase insert domain receptor
NCOA1	nuclear receptor coactivator 1	WHSC1L1_L1	Wolf-Hirschhorn syndrome candidate 1-like 1
NES	nestin	WHSC1S1_S1	Wolf-Hirschhorn syndrome candidate 1-like 1
PARP	poly (ADP-ribose) polymerase 1	VIM	vimentin
PGR	progesterone receptor (PGR)	XIAP	X-linked inhibitor of apoptosis
PI3KCA	phosphoinositide-3-kinase, catalytic, alpha polypeptide	ACTB	Actin, beta
POU5F1	POU class 5 homeobox 1	B2M	Beta-2-microglobulin
PPIC	peptidylprolyl isomerase C (cyclophilin C)	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
PROM1	prominin 1	GUSB	Beta-glucuronidase
PSCA	prostate stem cell antigen	HPRT1	hypoxanthine phosphoribosyltransferase 1
PTCH1	patched 1	PPIA	peptidylprolyl isomerase A (cyclophilin A)
PTEN	phosphatase and tensin homolog	RPLP	ribosomal protein, large, P0
RAD51	RAD51 recombinase	TBP	TATA box binding protein
RAI2	Retinoic acid induced 2	TUBB	tubulin, beta 2A class Ila
RUNX2	runt-related transcription factor 2	UBC	ubiquitin C
SATB1	SATB homeobox 1	YWHAZ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide
SCGB2A/MAM	secretoglobulin, family 2A, member 2	VPh	validprime human
SHH	sonic hedgehog		
SLC6A8	solute carrier family 6, member 8		

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