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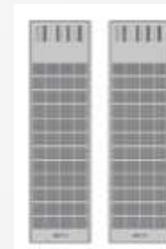
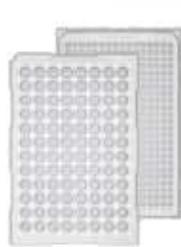
TaqMan Array Cards

Gilbert ROBIC

 The world leader in serving science



TaqMan - Different formats according to throughput



	Tubes	Plates	Cards	OpenArray® Plates
Format	Individual tubes	96- and 384-well plates with assays pre-spotted	384-well cards with assays pre-spotted	3,072 through-holes with assays pre-spotted
Products	<div style="border: 1px solid black; border-radius: 10px; padding: 5px; text-align: center;"> Predesigned & Custom Assays </div>	<div style="border: 1px solid black; border-radius: 10px; padding: 5px;"> Predesigned Gene Signature panels & Customized plates and cards </div>		
Your advantage	<div style="border: 1px solid black; border-radius: 10px; padding: 5px; text-align: center;"> High flexibility for low throughput </div>	<div style="border: 1px solid black; border-radius: 10px; padding: 5px; text-align: center;"> Supports automation for medium throughput </div>	<div style="border: 1px solid black; border-radius: 10px; padding: 5px; text-align: center;"> Convenience, no robotics needed </div>	<div style="border: 1px solid black; border-radius: 10px; padding: 5px; text-align: center;"> Higher throughput for routine applications or large projects </div>

Instrument compatibility TAP and TAC

TaqMan Array Cards



7900HT Real-Time PCR Systems
(DISCONTINUED)



ViiA 7 Real-Time PCR Systems
(DISCONTINUED July 2017)



QuantStudio 7Flex Real-Time PCR Systems
(Discontinued)



QS7 Pro



QuantStudio 12K Flex Real-Time PCR Systems

TaqMan Array Plates



StepOnePlus Real-Time PCR Systems



7500Fast Real-time PCR Systems



7900HT Real-Time PCR Systems
(DISCONTINUED)



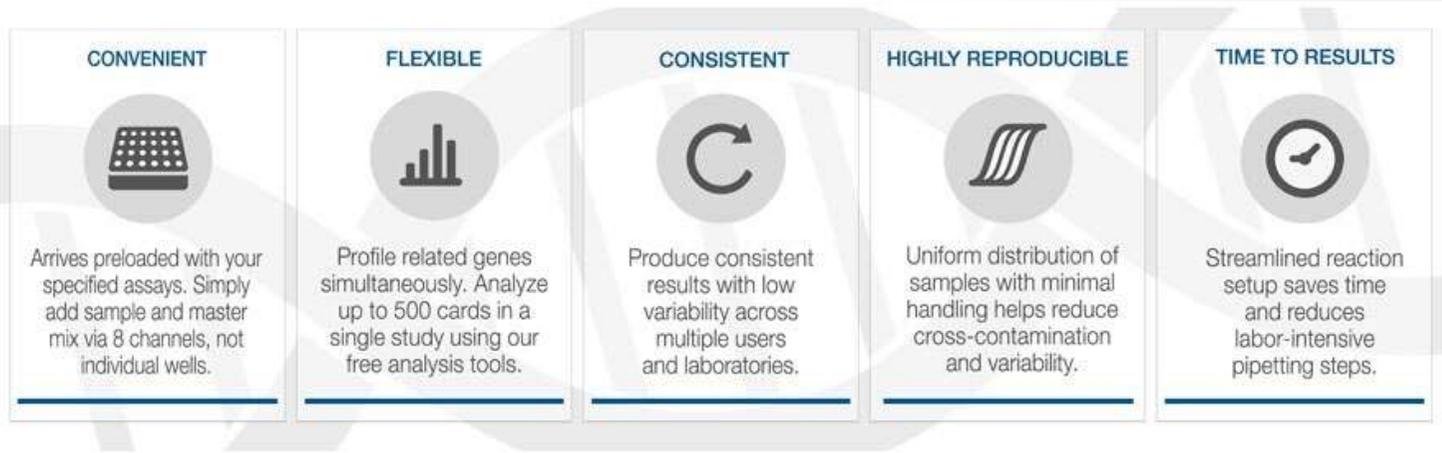
ViiA 7 Real-Time PCR Systems
(DISCONTINUED July 2017)



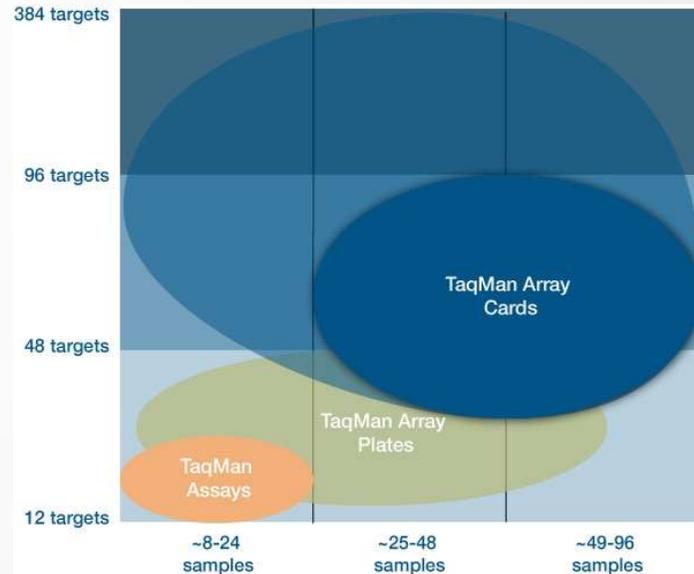
QuantStudio Family

Important: compatibility of TAP fast for CFX instruments

Advantages of TaqMan Array Cards



When to use TACs vs. other formats



The TaqMan Array Family – Plates and Cards

Pre-spotted dried assays – just add Mastermix and template

TaqMan Array Plates



96 Standard	96 Fast	384
20 μ l	10 μ l	5-10 μ l

TaqMan Array Cards



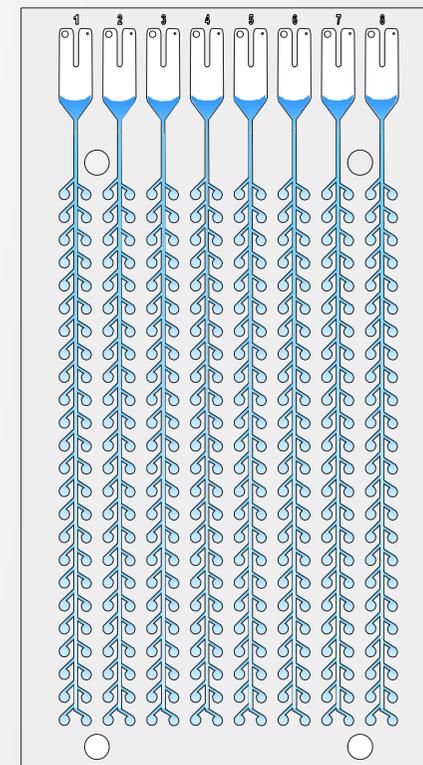
Card
1 μ l

TaqMan Array Card description

- Pre-spotted dried assays on 384-well microfluidic cards
- The ideal tool for gene expression studies, including miRNAs
- Previous names
 - - Microfluidic Cards
 - - TaqMan Low Density Arrays (TLDA)
- Supporting 1-8 samples; 11-380 assays

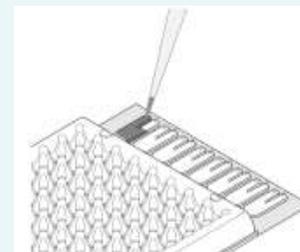
Key Benefits:

- Fast & Easy setup (~10 min prep time)
- Medium-high throughput without expensive robotics
- Cost effective with reduced reagent consumption



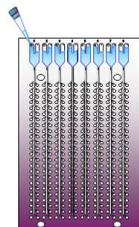
Advantages of TaqMan Array Cards versus 384-well Plates

- Fast loading (~10 min) of 384-well format saves set up time
- Even distribution of master mix and samples across channels produce consistent and low-variable results
- Less pipetting minimizes loading error
- Closed chamber minimizes contamination
- Cost effective with significantly less master mix usage:
 - **400** μl /card vs approx 2 ml per 384well plate (10 μl rxn)



TaqMan Array Card Workflow

Load

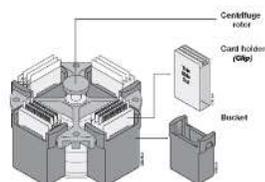


Custom formats
Flexible panels
Fixed panels

Spin



Several centrifuges are compatible – see COL11156



Include bucket clips in order

Seal



Sealer is delivered with block upgrade



Run



Instrument with TaqMan Array Card block
→ calibration of TAC block

Pay attention: centrifuge need to be balanced and buckets ideally fully loaded
– customer can order empty cards if necessary (sku 4334812)

Centrifuge compatibility guide COL11156

appliedbiosystems

Centrifuge compatibility for TaqMan Array Cards

Current-generation centrifuges	Centrifuge	Centrifuge rotor	Applied Biosystems bucket for TaqMan array
Heraeus MegaFuge 40, 120 V	75004504	75003180	4442571
Heraeus MegaFuge 40, 230 V	75004503	75003180	4442571
Heraeus MegaFuge 40R, 120 V (refrigerated)	75004519	75003180	4442571
Heraeus MegaFuge 40R, 230 V (refrigerated)	75004518	75003180	4442571
Heraeus MultiFuge X3, 120 V	75004501	75003180	4442571
Heraeus MultiFuge X3, 230 V	75004500	75003180	4442571
Heraeus MultiFuge X3R, 120 V (refrigerated)	75004516	75003180	4442571
Heraeus MultiFuge X3R, 230 V (refrigerated)	75004515	75003180	4442571
SL 40, 230 V	75004512	75003180	4442571
SL 40, 120 V	75004513	75003180	4442571
SL 40R, 230 V (refrigerated)	75004527	75003180	4442571
SL 40R, 120 V (refrigerated)	75004528	75003180	4442571
Sorvall Legend XT, 120 V	75004506	75003180	4442571
Sorvall Legend XT, 230 V	75004505	75003180	4442571
Sorvall Legend XT, 230 V (US and Canada)	75004508	75003180	4442571
Sorvall Legend XTR, 120 V (refrigerated)	75004521	75003180	4442571
Sorvall Legend XTR, 230 V (refrigerated)	75004520	75003180	4442571
Sorvall Legend XTR, 230 V (US and Canada, refrigerated)	75004523	75003180	4442571
Sorvall ST 40, 120 V	75004510	75003180	4442571
Sorvall ST 40, 230 V	75004509	75003180	4442571
Sorvall ST 40R, 120 V (refrigerated)	75004525	75003180	4442571
Sorvall ST 40R, 230 V (refrigerated)	75004524	75003180	4442571
Previous-generation centrifuges	Centrifuge	Centrifuge rotor	Applied Biosystems bucket for TaqMan array
Sorvall Legend T Plus, 120 V	75004387	75006445 (includes required tool) or 75006434 (twist-on)	4337782
Sorvall Legend T Plus, 230 V	75004383	75006445 (includes required tool) or 75006434 (twist-on)	4337782
Sorvall Legend RT Plus, 120 V	75004377	75006445 (includes required tool) or 75006434 (twist-on)	4337782
Sorvall Legend RT Plus, 230 V (refrigerated)	75004373	75006445 (includes required tool) or 75006434 (twist-on)	4337782
Heraeus MultiFuge 3S Plus, 120 V	75004385	75006445 (includes required tool) or 75006434 (twist-on)	4337782

Centrifuge compatibility for TaqMan Array Cards

Can be shared with customers

TaqMan Array Card offering

[TaqMan Array Cards Landing page](#)

	 Gene Expression	 Advanced miRNA	 miRNA	 SNP Genotyping	 Copy Number	 Mutation Detection
Inventoried	✓	✓	✓			
Flexible, MTO	✓					
Custom	✓	✓	✓			
Specialty				✓	✓	✓

Use TaqMan All in One File to have all skus

TaqMan Array Cards - Inventoried

TaqMan Gene Expression Array Cards Inventoried

Delivery time for pre-configured (inventoried) panels: 4 days
 Minimum order: 4 cards
 Minimum order endogenous control cards: 2 cards

TaqMan Advanced miRNA Assays

SKU	Product description
A31805	TaqMan Advanced miRNA Human A and B Cards
A34714	TaqMan Advanced miRNA Human A Card
A34715	TaqMan Advanced miRNA Human B Card
A34716	TaqMan Advanced miRNA Human Endogenous Controls Card (32 targets)
A34717	TaqMan Advanced miRNA Human Serum/Plasma Card (192 targets)
A28007	TaqMan Advanced miRNA cDNA Synthesis kit

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Inventoried and made-to-order Flexible TaqMan Arrays

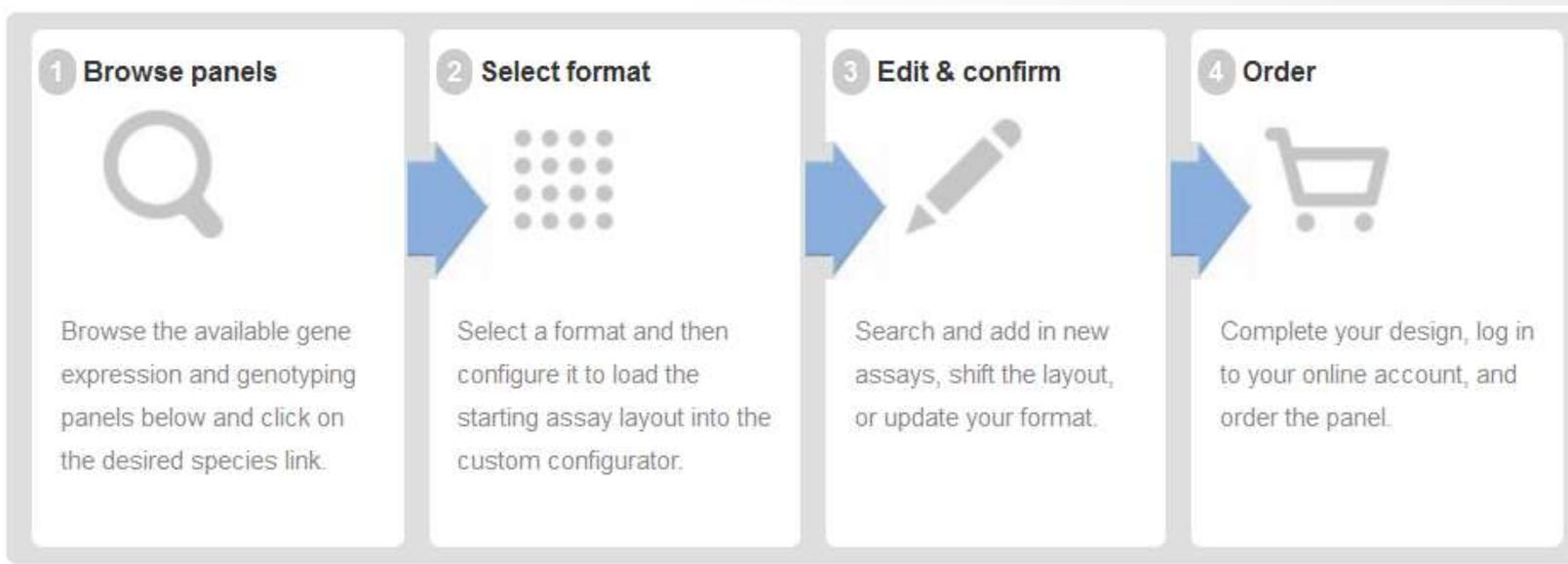
Disease	Signaling pathway	Biological process
Asthma	14-3-3	ABC Transporters
ALS	AHR	Adaptive Immune Response
Alzheimer's Disease	AMPK	Adherens Junctions
Antibacterial Response	Androgen Receptor Targets	Adipogenesis
Antifungal Response	BMP	ADME-TOX
Antiviral Response	BRCA1	Aging
Atherosclerosis	cAMP	Amino Acid Metabolism
Autistic Disorder	CMV & MAPK	Androgens
Autoimmune Diseases	Complement	Angiogenesis
Bacterial Infections	CREB	Antigen Processing

TaqMan Array Cards - flexible content panels



Panels for TaqMan Array Cards & Plates, and OpenArray Plates

[TaqMan® Flexible Content Panels](#)



TaqMan Array Cards - flexible content panels

Flexible, made-to-order TaqMan Array cards

- Curated list of suggested assays preloaded to get you started
- Can modify as needed

Custom Array Configurator

Q Search For Assays [Import Your Assay List](#) [Complete Your Design >](#)

Array name*	Array ID	Array type	Format	Unique Targets	Filled	Invalid	Empty
Human Apoptosis 384HT	-	TaqMan Gene Expression Array Cards	96a	95	95	0	0

Select Edit Move Export Help Save Your Array Save A Copy...

Click to select assays | Click & drag to move assays | Ctrl+C to copy an assay | Ctrl+V to paste an assay

Display Gene Symbol

A01	AATF
A02	ABL1
A03	ACVR1B
A04	ADDORA1

→ TAT for GEX 3 – 4 weeks (min order 10)

→ TAT for miRNA 4 – 6 weeks (min order 10)

Note: „Flexible panels“ have the same minimum order number and prices as custom panels (10 cards)

Custom TaqMan Array cards

Custom TaqMan Array Cards

Custom TaqMan Array cards

- Start with a blank slate
- Load any predesigned TaqMan Gene Expression Assay

Custom Array Configurator

→ TAT for GEX 3 – 4 weeks (min order 10)

→ TAT for miRNA 4 – 6 weeks (min order 10)

Available content formats

Format	Cat. No.	No. of assays / replicated	No. of samples	No. of controls	Min. order
12	4342247	11 / 4	8	1	10
16	4346798	15 / 3	8	1	10
24	4342249	23 / 2	8	1	10
32	4346799	31 / 3	4	1	10
48	4342253	47 / 1	8	1	10
64	4346800	63 / 3	2	1	10
96a	4342259	95 / 1	4	1	10
96b	4342261	95 / 2	2	1	10
192	4346802	191 / 2	1	1	10
384	4342265	380 / 1	1	4	10

Speciality TaqMan Array Cards

Specialty TaqMan Array Plates and Cards

	 Gene Expression	 Advanced miRNA	 miRNA	 SNP Genotyping	 Copy Number	 Mutation Detection
Inventoried	✓	✓	✓			
Flexible, MTO	✓					
Custom	✓	✓	✓			
Specialty				✓	✓	✓

→ also multiplexing for Gene Expression

→ protocols provided by Connor

→ TAT 10 – 12 weeks (min order 20)

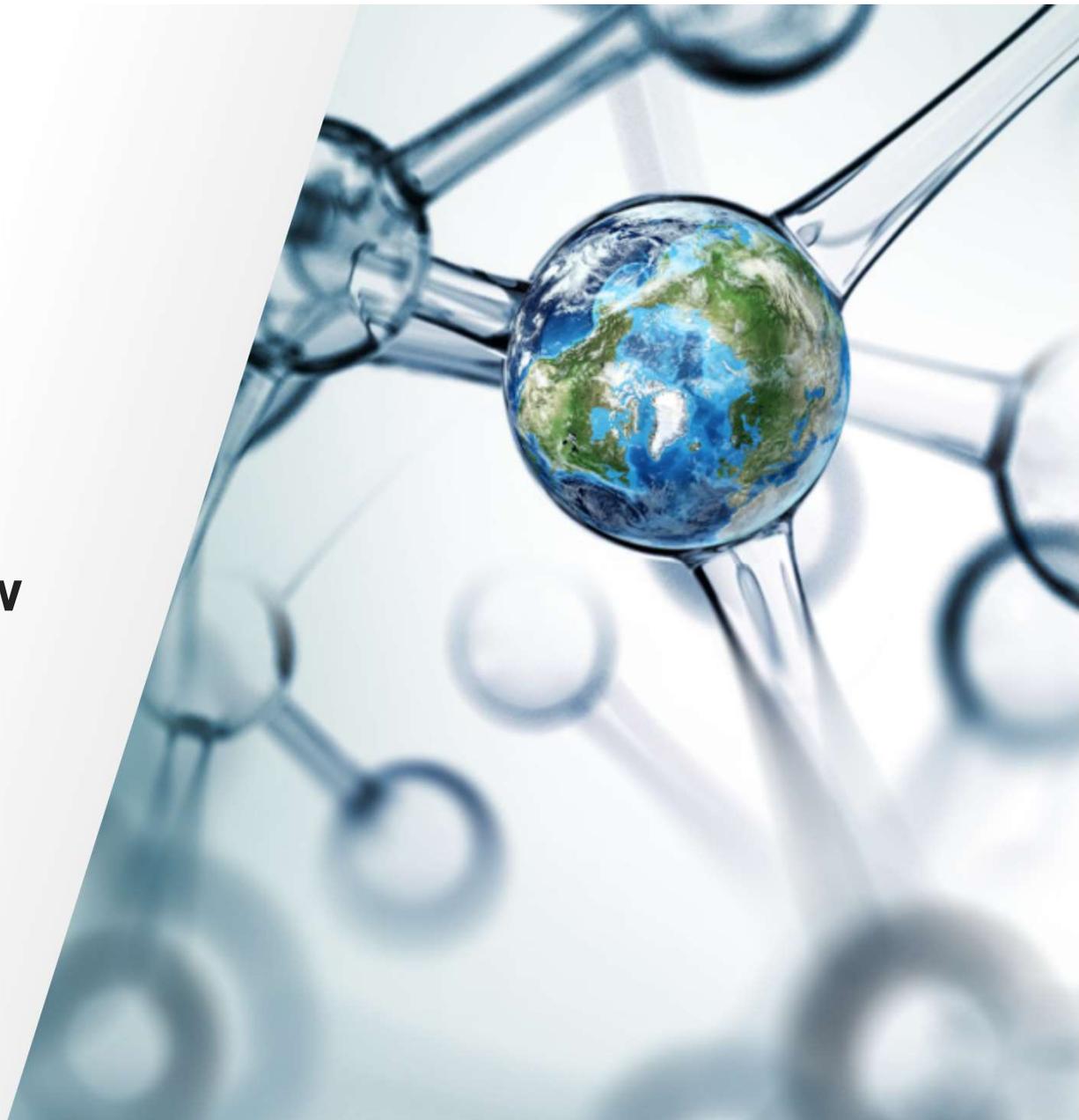
How to order Specialty TaqMan array cards

- Easily configure your specialty array plate with our [online tool](#)
- Work with our Specialty team or your sales representative to order the array cards
- For array card orders that require Specialty Assays or multiplex assays, please download and fill out the [Specialty TaqMan Array Card Request form](#)
- Email the completed form to Specialty_Cards@thermofisher.com or contact your sales representative
- One of our representatives will contact you in approximately 2–3 days to discuss your order
- Your specialty plates will arrive approximately 3–5 weeks after you place your order

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TaqMan Array Cards - Workflow

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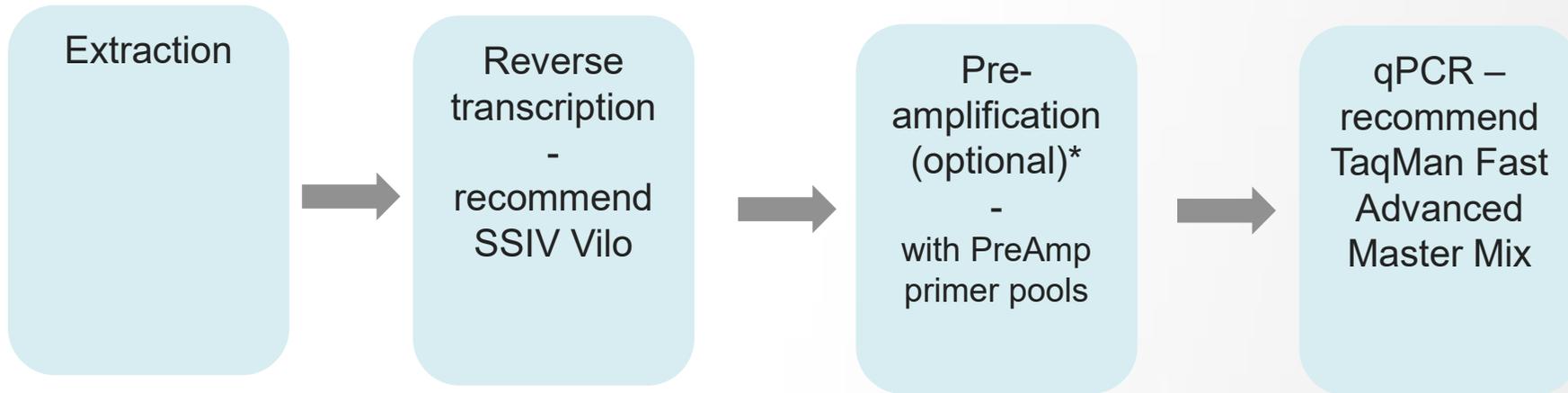


Workflow Gene Expression

Check TaqMan All in one file 2022

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Workflow Gene Expression



*If done, it need to be done for all samples

Recommended for RT: **SuperScript™ IV VILO™ Master Mix**

IV highlights:

- I. **Super efficient**— C_t values earlier by 2 cycles compared to other RT reagents, in 10-minute reaction
- II. **Super strong**—great results even with degraded or impure RNA samples
- III. **Super reliable**—improved reproducibility due to one-tube master mix format
- IV. **Super safe**—RNA-friendly gDNA removal with novel ezDNase



only

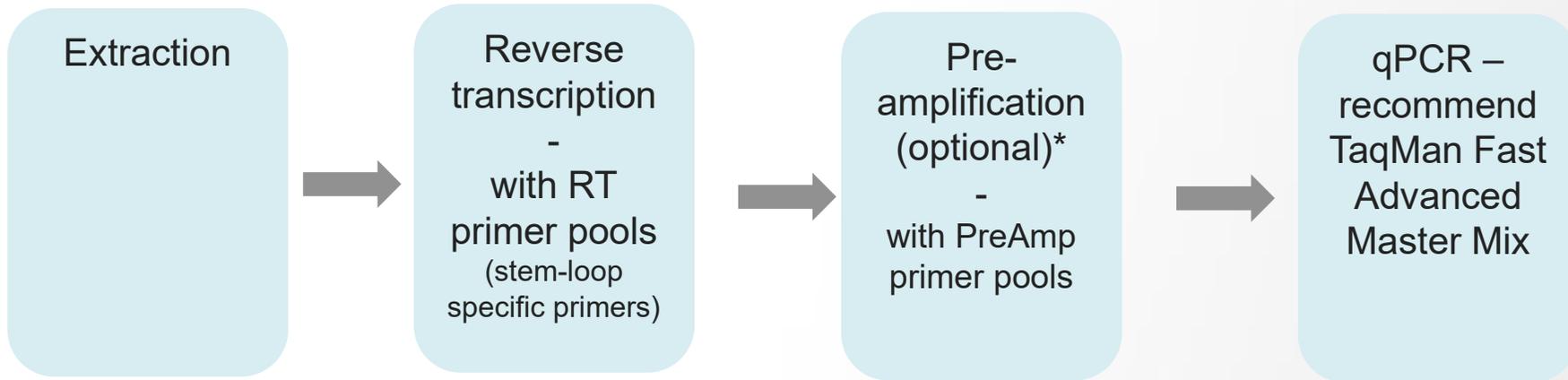
TaqMan® Fast Advanced Master Mix

- Superior performance compared to „universal“ master mixes
- Broadest dynamic range
- Fast thermocycling protocols : < 40 min
- Enhanced benchtop stability, up to 72 hrs

Workflow miRNA

Check TaqMan All in one file 2022

Workflow miRNA



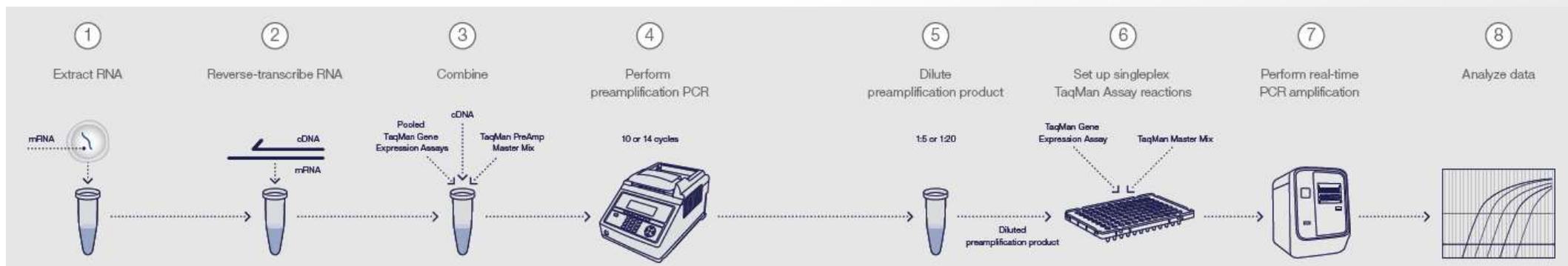
*If done, it need to be done for all samples

Workflow Advanced miRNA



For internal use only

Pre-amplification for Gene Expression



For preamplification

Reagents

Product
TaqMan PreAmp Master Mix (2X)
Custom TaqMan PreAmp Pools

Custom PreAmp pool available (Cat. No. 4441856*)
*for Gene Expression

Pre-amplification → cycle for 10-14 cycles

For internal use only

Pre-amplification for Gene Expression

Custom TaqMan® PreAmp Pools

Pay attention – old protocol with outdated product recommendations

RNA template guidelines

For optimal performance of the reverse transcription kit, master mixes, and gene expression assays, Applied Biosystems recommends using RNA that is:

- Between 0.002 and 0.2 µg/µL in concentration
- <0.005% of genomic DNA by weight
- Free of inhibitors of reverse transcription and PCR
- Dissolved in PCR-compatible buffer

Recommended amounts of cDNA

For the preamplification reactions, Applied Biosystems recommends that you use:

- 0.2 to 100 ng of cDNA per reaction
-  **Note:** Applied Biosystems is developing specific protocols for use with single-cells. For more information, refer to [Appendix C on page 35](#).
- The same amount of cDNA for all reactions

TaqMan Array Cards compatible with Cell-to-Ct workflow - Single Cell Gene Expression Analysis Using the TaqMan® Cells-to-CT™ Kit – Appendix C

Loading TaqMan Array Card

▼ Loading a TaqMan Array Card

Load	Spin	Seal	Run
			
Dispense 100 μ L of nucleic acid and master mix into each fill port	Centrifuge the TaqMan Array cards for 2 minutes	Seal off the main channels with the sealer and cut the strip	Perform amplification and analysis on a compatible Applied Biosystems qPCR system
			

Per loading port:
50 μ l Sample
50 μ l Master Mix

cDNA quantity for Gene Expression:
30 ng – 1 μ g per port

Free software for data analysis

Software	Resource
Relative Quantification application	thermofisher.com/connect
ExpressionSuite™ Software ^[1]	thermofisher.com/expressionsuite

Thermo Fisher™ Connect applications

Application	Description
 <p>Relative Quantification</p>	<ul style="list-style-type: none"> Allows analysis of data with the relative threshold (C_{rt}) algorithm. <ul style="list-style-type: none"> C_{rt} is an alternative to the baseline threshold algorithm (C_t). C_{rt} can be used if the baseline is variable. This variability might be caused by reconstitution of dried-down assays on the card at different rates. C_{rt} can correct for a variable baseline. The application can be used for data analysis for convenience or if the software specific to your instrument does not have the relative threshold algorithm.
 <p>My Pipette™ Creator</p>	<ul style="list-style-type: none"> Allows the creation of assay-specific pipetting programs for the E1-ClipTip™ Pipette. Includes pre-written and validated protocols for Thermo Fisher Scientific assays, including TaqMan™ Advanced miRNA Assays.

Protocoles TACs

Gene Expression

[TaqMan Array Cards Quick reference guide](#)

[TaqMan Array Card User guide](#)

[Video - Preparing the card for the ViiTM 7 with TaqMan[®] Assays](#)

TaqMan Advanced miRNA

[TAC - TaqMan Advanced miRNA Assays User guide](#)

Didn't find protocol for TaqMan miRNA

appliedbiosystems

APPLICATION NOTE

Gene expression and profiling studies

Simultaneous detection of miRNA and mRNA on TaqMan Array Cards using the TaqMan Advanced miRNA workflow

CustomTaqMan Array Cards

Format 96a (Cat. No. 4342259)

95 unique assays + 1 mandatory control

4 unique samples

95 unique assays as single reactions

Replicates																									Port			
1	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	A	1		
	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	B		2	
	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	C			3
	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	D			
2	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	E	5		
	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	F		6	
	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	G			7
	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	H			
3	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	I	9		
	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	J		10	
	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	K			11
	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	L			
4	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	M	13		
	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	N		14	
	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	O			15
	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	P			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				

Format 96b (Cat. No. 4342261)

95 unique assays + 1 mandatory control

2 unique samples

95 unique assays in duplicates

Replicates																									Port							
1	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	A	1						
	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	B		2					
	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	C			3				
	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	D				4			
	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	E					5		
	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	F						6	
	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	G							7
	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	H							
2	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	I	9						
	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	J		10					
	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	K			11				
	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	L				12			
	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	M					13		
	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	N						14	
	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	O							15
	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	P							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24								

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How to order TaqMan Array Cards

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How to order TaqMan Array Cards

- Start to configure TAC for GEX, miRNA and Advanced miRNA

[TaqMan® Array Configurator](#)

Key steps to configure your TaqMan Array

- Select TaqMan Assays
- Optional: import a list of previously selected TaqMan Assays
- Select mandatory control in column 11
- Move Assays around with „drag and drop“
- Copy / Paste Assays
- Name your TaqMan Array
- You can save your configuration and continue later

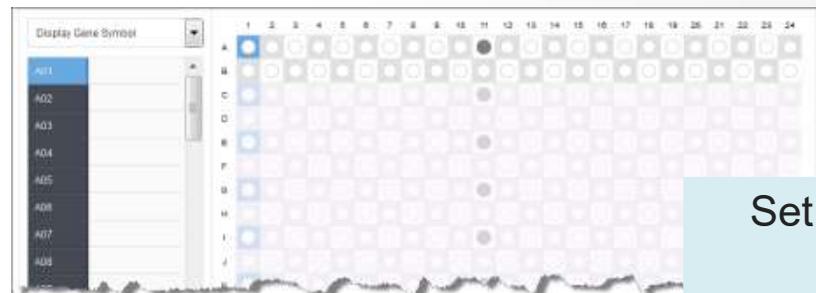
Configure TaqMan Array Cards

Search for TaqMan Assays or import list

Array name*	Array ID	Array type	Format	Unique Targets	Filled	Invalid	Empty
<input type="text" value="Name your array"/>	-	TaqMan® Array Micro Fluidic Cards	48	0	0	0	47

Click to select assays | Click & drag to move assays | Ctrl+C to copy an assay | Ctrl+V to paste an assay

Drag and drop assays
Copy / paste assays



Set up is displayed at the bottom

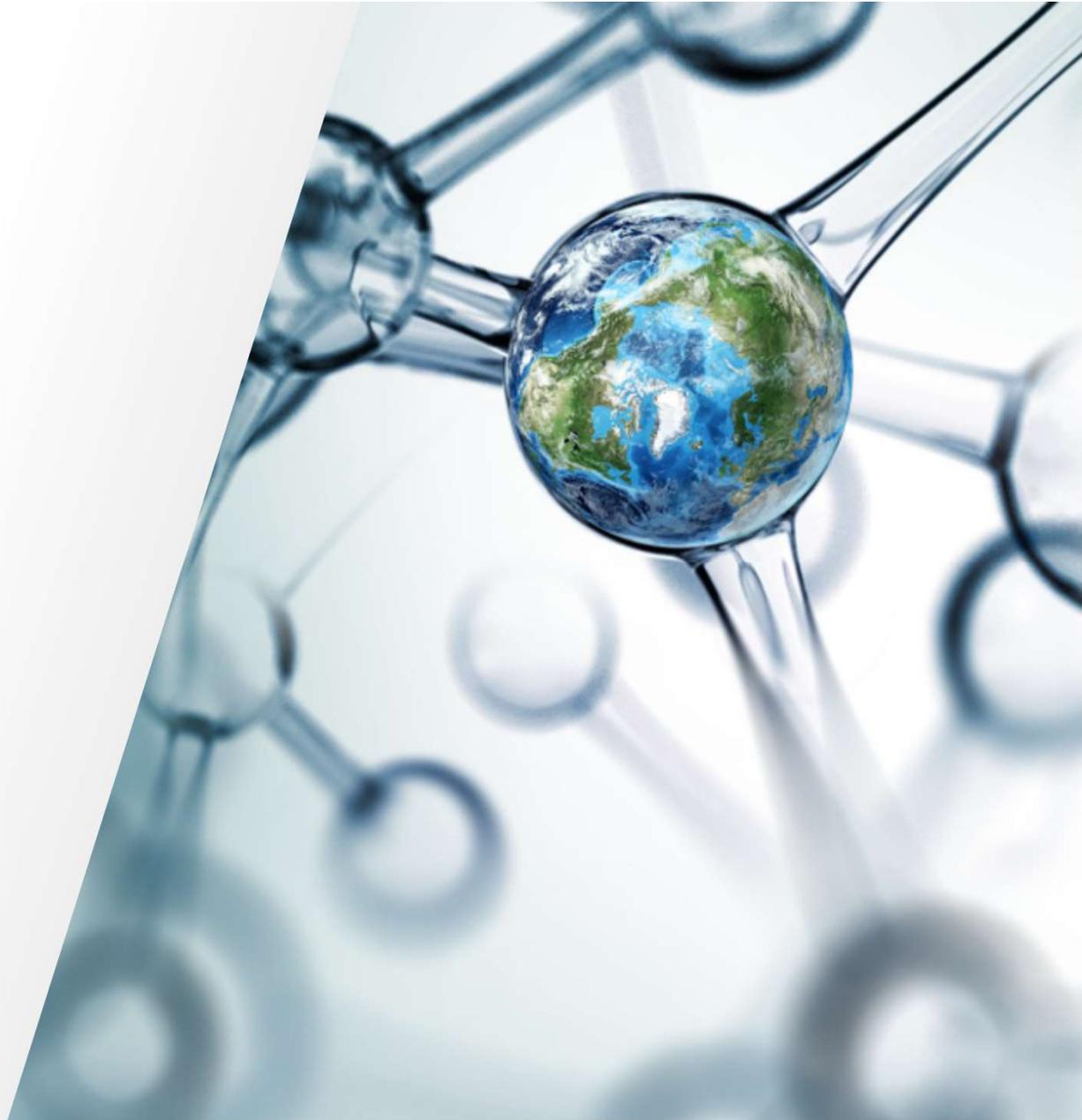
Thank you



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TaqMan Array Card formats

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CustomTaqMan Array Cards

Format 12 (Cat. No. 4342247)

11 unique assays + 1 mandatory control
8 unique samples

11 unique assays in quadruplicates

Replicates																						Port					
1	1	1	2	2	3	3	4	4	5	5	CTL	CTL	6	6	7	7	8	8	9	9	10	10	11	11	A	1	
	1	1	2	2	3	3	4	4	5	5	CTL	CTL	6	6	7	7	8	8	9	9	10	10	11	11	B		
2	1	1	2	2	3	3	4	4	5	5	CTL	CTL	6	6	7	7	8	8	9	9	10	10	11	11	C	2	
	1	1	2	2	3	3	4	4	5	5	CTL	CTL	6	6	7	7	8	8	9	9	10	10	11	11	D		
3	1	1	2	2	3	3	4	4	5	5	CTL	CTL	6	6	7	7	8	8	9	9	10	10	11	11	E	3	
	1	1	2	2	3	3	4	4	5	5	CTL	CTL	6	6	7	7	8	8	9	9	10	10	11	11	F		
4	1	1	2	2	3	3	4	4	5	5	CTL	CTL	6	6	7	7	8	8	9	9	10	10	11	11	G	4	
	1	1	2	2	3	3	4	4	5	5	CTL	CTL	6	6	7	7	8	8	9	9	10	10	11	11	H		
5	1	1	2	2	3	3	4	4	5	5	CTL	CTL	6	6	7	7	8	8	9	9	10	10	11	11	I	5	
	1	1	2	2	3	3	4	4	5	5	CTL	CTL	6	6	7	7	8	8	9	9	10	10	11	11	J		
6	1	1	2	2	3	3	4	4	5	5	CTL	CTL	6	6	7	7	8	8	9	9	10	10	11	11	K	6	
	1	1	2	2	3	3	4	4	5	5	CTL	CTL	6	6	7	7	8	8	9	9	10	10	11	11	L		
7	1	1	2	2	3	3	4	4	5	5	CTL	CTL	6	6	7	7	8	8	9	9	10	10	11	11	M	7	
	1	1	2	2	3	3	4	4	5	5	CTL	CTL	6	6	7	7	8	8	9	9	10	10	11	11	N		
8	1	1	2	2	3	3	4	4	5	5	CTL	CTL	6	6	7	7	8	8	9	9	10	10	11	11	O	8	
	1	1	2	2	3	3	4	4	5	5	CTL	CTL	6	6	7	7	8	8	9	9	10	10	11	11	P		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		

Format 16 (Cat. No. 4346798)

15 unique assays + 1 mandatory control
8 unique samples

15 unique assays in triplicates

Replicates																						Port					
1	1	1	1	2	2	2	3	3	3	CTL	CTL	CTL	4	4	4	5	5	5	6	6	6	7	7	7	A	1	
	8	8	8	9	9	9	10	10	10	11	11	11	12	12	12	13	13	13	14	14	14	15	15	15	B		
2	1	1	1	2	2	2	3	3	3	CTL	CTL	CTL	4	4	4	5	5	5	6	6	6	7	7	7	C	2	
	8	8	8	9	9	9	10	10	10	11	11	11	12	12	12	13	13	13	14	14	14	15	15	15	D		
3	1	1	1	2	2	2	3	3	3	CTL	CTL	CTL	4	4	4	5	5	5	6	6	6	7	7	7	E	3	
	8	8	8	9	9	9	10	10	10	11	11	11	12	12	12	13	13	13	14	14	14	15	15	15	F		
4	1	1	1	2	2	2	3	3	3	CTL	CTL	CTL	4	4	4	5	5	5	6	6	6	7	7	7	G	4	
	8	8	8	9	9	9	10	10	10	11	11	11	12	12	12	13	13	13	14	14	14	15	15	15	H		
5	1	1	1	2	2	2	3	3	3	CTL	CTL	CTL	4	4	4	5	5	5	6	6	6	7	7	7	I	5	
	8	8	8	9	9	9	10	10	10	11	11	11	12	12	12	13	13	13	14	14	14	15	15	15	J		
6	1	1	1	2	2	2	3	3	3	CTL	CTL	CTL	4	4	4	5	5	5	6	6	6	7	7	7	K	6	
	8	8	8	9	9	9	10	10	10	11	11	11	12	12	12	13	13	13	14	14	14	15	15	15	L		
7	1	1	1	2	2	2	3	3	3	CTL	CTL	CTL	4	4	4	5	5	5	6	6	6	7	7	7	M	7	
	8	8	8	9	9	9	10	10	10	11	11	11	12	12	12	13	13	13	14	14	14	15	15	15	N		
8	1	1	1	2	2	2	3	3	3	CTL	CTL	CTL	4	4	4	5	5	5	6	6	6	7	7	7	O	8	
	8	8	8	9	9	9	10	10	10	11	11	11	12	12	12	13	13	13	14	14	14	15	15	15	P		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		

CustomTaqMan Array Cards

Format 24 (Cat. No. 4342249)

23 unique assays + 1 mandatory control

8 unique samples

23 unique assays in duplicates

Replicates	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	Port
1	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	A
	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	B
2	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	C
	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	D
3	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	E
	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	F
4	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	G
	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	H
5	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	I
	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	J
6	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	K
	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	L
7	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	M
	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	N
8	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	O
	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	P

Format 32 (Cat. No. 4346799)

31 unique assays + 1 mandatory control

4 unique samples

31 unique assays in triplicates

Replicates	1	1	1	2	2	2	3	3	3	CTL	CTL	CTL	4	4	4	5	5	5	6	6	6	7	7	7	Port
1	8	8	8	9	9	9	10	10	10	11	11	11	12	12	12	13	13	13	14	14	14	15	15	15	A
	16	16	16	17	17	17	18	18	18	19	19	19	20	20	20	21	21	21	22	22	22	23	23	23	B
	24	24	24	25	25	25	26	26	26	27	27	27	28	28	28	29	29	29	30	30	30	31	31	31	C
2	1	1	1	2	2	2	3	3	3	CTL	CTL	CTL	4	4	4	5	5	5	6	6	6	7	7	7	D
	8	8	8	9	9	9	10	10	10	11	11	11	12	12	12	13	13	13	14	14	14	15	15	15	E
	16	16	16	17	17	17	18	18	18	19	19	19	20	20	20	21	21	21	22	22	22	23	23	23	F
3	24	24	24	25	25	25	26	26	26	27	27	27	28	28	28	29	29	29	30	30	30	31	31	31	G
	1	1	1	2	2	2	3	3	3	CTL	CTL	CTL	4	4	4	5	5	5	6	6	6	7	7	7	H
	8	8	8	9	9	9	10	10	10	11	11	11	12	12	12	13	13	13	14	14	14	15	15	15	I
4	16	16	16	17	17	17	18	18	18	19	19	19	20	20	20	21	21	21	22	22	22	23	23	23	J
	24	24	24	25	25	25	26	26	26	27	27	27	28	28	28	29	29	29	30	30	30	31	31	31	K
	1	1	1	2	2	2	3	3	3	CTL	CTL	CTL	4	4	4	5	5	5	6	6	6	7	7	7	L
8	8	8	8	9	9	9	10	10	10	11	11	11	12	12	12	13	13	13	14	14	14	15	15	15	M
	16	16	16	17	17	17	18	18	18	19	19	19	20	20	20	21	21	21	22	22	22	23	23	23	N
	24	24	24	25	25	25	26	26	26	27	27	27	28	28	28	29	29	29	30	30	30	31	31	31	O

Custom TaqMan Array Cards: most popular format 48

Replicates	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	Port
1	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	A
	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	B
2	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	C
	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	D
3	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	E
	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	F
4	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	G
	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	H
5	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	I
	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	J
6	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	K
	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	L
7	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	M
	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	N
8	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	O
	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	P

47 unique TaqMan Assays, single reactions + 1 mandatory control
8 unique samples
 Cat. No. 4342253

CustomTaqMan Array Cards

Format 64 (Cat. No. 4346800)

63 unique assays + 1 mandatory control

2 unique samples

63 unique assays in triplicates

Replicates																										Port						
1	1	1	1	2	2	2	3	3	3	CTL	CTL	CTL	4	4	4	5	5	5	6	6	6	7	7	7	A	1						
	8	8	8	9	9	9	10	10	10	11	11	11	12	12	12	13	13	13	14	14	14	15	15	15	B		2					
	16	16	16	17	17	17	18	18	18	19	19	19	20	20	20	21	21	21	22	22	22	23	23	23	C			3				
	24	24	24	25	25	25	26	26	26	27	27	27	28	28	28	29	29	29	30	30	30	31	31	31	D				4			
	32	32	32	33	33	33	34	34	34	35	35	35	36	36	36	37	37	37	38	38	38	39	39	39	E					5		
	40	40	40	41	41	41	42	42	42	43	43	43	44	44	44	45	45	45	46	46	46	47	47	47	F						6	
	48	48	48	49	49	49	50	50	50	51	51	51	52	52	52	53	53	53	54	54	54	55	55	55	G							7
	56	56	56	57	57	57	58	58	58	59	59	59	60	60	60	61	61	61	62	62	62	63	63	63	H							
1	1	1	2	2	2	3	3	3	CTL	CTL	CTL	4	4	4	5	5	5	6	6	6	7	7	7	I	5							
8	8	8	9	9	9	10	10	10	11	11	11	12	12	12	13	13	13	14	14	14	15	15	15	J		6						
16	16	16	17	17	17	18	18	18	19	19	19	20	20	20	21	21	21	22	22	22	23	23	23	K			7					
24	24	24	25	25	25	26	26	26	27	27	27	28	28	28	29	29	29	30	30	30	31	31	31	L				8				
32	32	32	33	33	33	34	34	34	35	35	35	36	36	36	37	37	37	38	38	38	39	39	39	M					9			
40	40	40	41	41	41	42	42	42	43	43	43	44	44	44	45	45	45	46	46	46	47	47	47	N						10		
48	48	48	49	49	49	50	50	50	51	51	51	52	52	52	53	53	53	54	54	54	55	55	55	O							11	
56	56	56	57	57	57	58	58	58	59	59	59	60	60	60	61	61	61	62	62	62	63	63	63	P								12
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24								

CustomTaqMan Array Cards

Format 192 (Cat. No. 4346802)

191 unique assays + 1 mandatory control

1 unique sample

191 unique assays as duplicates

Replicates																								Port				
1	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	A	1		
	1	2	3	4	5	6	7	8	9	10	CTL	11	12	13	14	15	16	17	18	19	20	21	22	23	B	1		
	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	C	2		
	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	D	2		
	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	E	3		
	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	F	3		
	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	G	4		
	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	H	4		
	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	I	5		
	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	J	5		
	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	K	6		
	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	L	6		
	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	M	7		
	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	N	7		
	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	O	8		
	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	P	8		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		

Format 384 (Cat. No. 4342265)

380 unique assays + 4 mandatory control

1 unique sample

380 unique assays as single reactions

Replicates																								Port				
1	1	2	3	4	5	6	7	8	9	10	CTL	CTL	11	12	13	14	15	16	17	18	19	20	21	22	A	1		
	23	24	25	26	27	28	29	30	31	32	CTL	CTL	33	34	35	36	37	38	39	40	41	42	43	44	B	1		
	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	C	2		
	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	D	2		
	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	E	3		
	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	F	3		
	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	G	4		
	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	H	4		
	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	I	5		
	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	J	5		
	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	K	6		
	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	L	6		
	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	M	7		
	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	N	7		
	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	O	8		
	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	P	8		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		