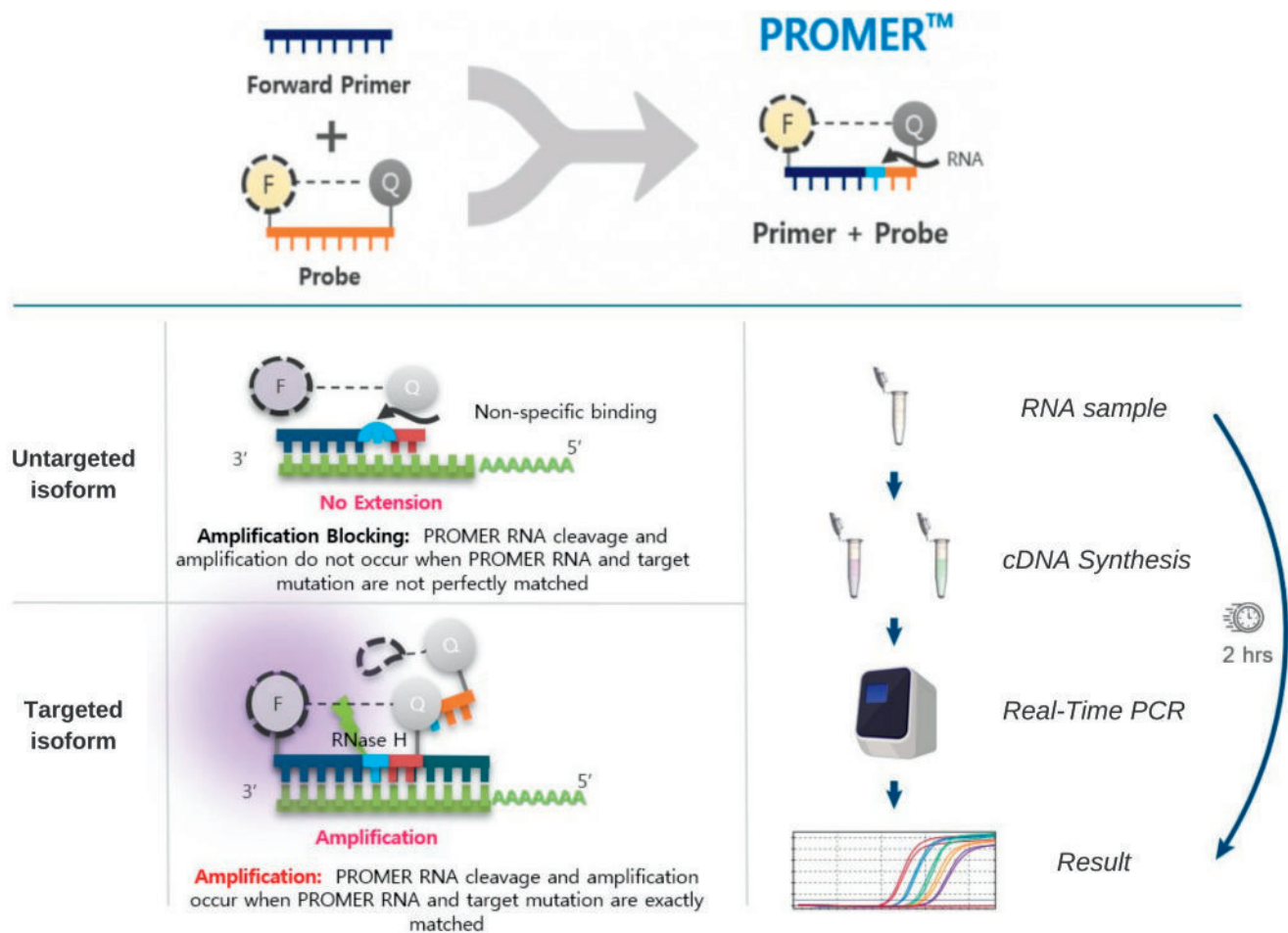


# Innovative Approach to miRNA

# Ctrl-X miRNA Detection Kit

- ✓ **High Accuracy** detection of specific miRNAs
- ✓ **Fast** – qRT-PCR device compatible
- ✓ **Custom Order** – Select your desired target miRNA in 8-strip tubes or 96-well plates
- ✓ **Cost Effective** solution

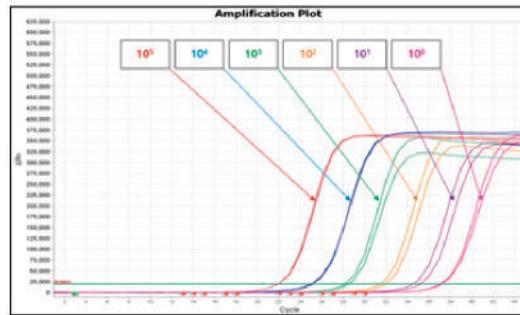
## Why PROMER ?



- Capable of detecting 10 copies of miRNA (differentiation of various isoforms of 0.1%)
- Ease of use for short nucleotides (miRNA, point mutation)
- A small sample volume is sufficient
- Multiple analyses available

### Sensitivity

Optimized PROMER primer probe reagents also enable detection in small plasma volumes (200  $\mu$ l)



No	Copy No. of miRNA	Ct	SD	CV(%)
1	1x10 <sup>6</sup> Copies	22.1	0.03	0.12
2	1x10 <sup>5</sup> Copies	25.2	0.11	0.43
3	1x10 <sup>4</sup> Copies	28.4	0.24	0.85
4	1x10 <sup>3</sup> Copies	31.8	0.32	1.01
5	1x10 <sup>2</sup> Copies	35	0.46	1.31
6	1x10 <sup>1</sup> Copies	37.3	0.06	0.16
7	RT-NTC	ND		

### Specificity

Highly effective miRNA isoform differentiation

**PROMER™**

Assay	Synthetic template			
	let-7a	let-7b	let-7c	let-7d
let-7a	100%	0%	0%	0%
let-7b	0%	100%	0%	0%
let-7c	0%	0%	100%	0%
let-7d	0%	0%	0%	100%

hsa-let-7a UGAGGUAGUAGGUUGUAUAGUU  
 hsa-let-7b UGAGGUAGUAGGUUGUGUGGUU  
 hsa-let-7c UGAGGUAGUAGGUUGUAUGGUU  
 hsa-let-7d AGAGGUAGUAGGUUGCAUAGUU

Vendor 1

Assay	Synthetic template			
	let-7a	let-7b	let-7c	let-7d
let-7a	100%	4%	51%	3%
let-7b	0%	100%	23%	0%
let-7c	2%	83%	100%	0%
let-7d	Assay not available			

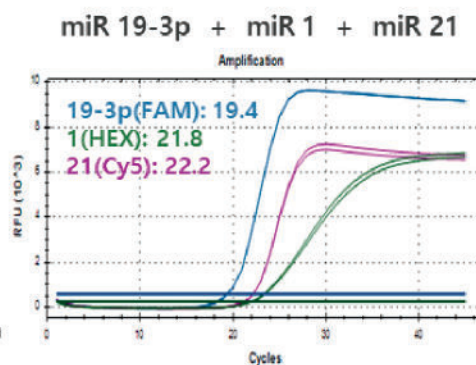
Vendor 2

Assay	Synthetic template			
	let-7a	let-7b	let-7c	let-7d
let-7a	100%	0%	0%	1%
let-7b	0%	100%	0%	0%
let-7c	0%	2%	100%	0%
let-7d	24%	0%	0%	100%

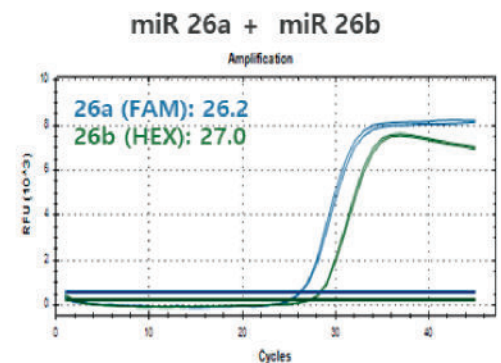
■ Indicates a perfect match  
 ■ Indicates low cross-reactivity  
 ■ Indicates high cross-reactivity

### Multiplexing

Achievable due to high sensitivity regardless of potential isoforms



\* Human Plasma



## Order Information / Related Products

- ✓ Pre-Designed
- ✓ Customized Order base – Order the target miRNA detection kit, which best suits your goals
  - 8-strip tube Custom Kit (Up to 8 miRNA targets; 8-strip tubes x 10 = 1 box)
  - 96-well Custom Kit (Up to 96 miRNA targets; 96-well plates x 10)

Products	Size
Ctrl-X miRNA cDNA Synthesis Kit	25 reactions
Ctrl-X miRNA cDNA Synthesis Kit	50 reactions
Ctrl-X miRNA Single Kit	100 reactions
Ctrl-X miRNA Single Kit	250 reactions
Ctrl-X miRNA 8-tube Custom Kit	10 reactions
Ctrl-X miRNA 96-well Custom Kit	10 reactions

