

qPCR and RT-qPCR master mixes for research applications

When you choose an Applied Biosystems™ master mix, you're choosing reliable performance that empowers you to focus on what truly matters: advancing your research. From single-target Applied Biosystems™ SYBR™ Green dye-based detection to advanced Applied Biosystems™ TaqMan™ probe-based multiplexing, our optimized master mixes help generate fast, accurate, and reproducible results.



	Applied Biosystems™ TaqMan™ Fast Advanced Master Mix	Applied Biosystems™ TaqMan™ Fast Virus 1-Step Master Mix	Applied Biosystems™ PowerTrack™ SYBR™ Green Master Mix
Overview	Benchtop-stable reagent with robust performance in single-target or duplex reactions	Inhibitor-tolerant reagent for sensitive RNA/DNA detection and multiplexing up to four targets	SYBR Green dye-based mix for high specificity with visual indicators to assist reaction setup
Detection chemistry	Probes, two-step qPCR	Probes, one-step RT-qPCR	SYBR Green dye, two-step qPCR
Concentration	2X	4X	2X
Instrument compatibility	Any instrument, from any manufacturer		
Key applications*	<ul style="list-style-type: none"> Gene expression miRNA analysis Virus detection 	<ul style="list-style-type: none"> Gene expression Viral/pathogen detection 	<ul style="list-style-type: none"> Gene expression Mycoplasma detection
Input material	DNA, including cDNA	RNA or DNA	DNA, including cDNA
Multiplexing and passive reference dye	With ROX : up to two targets	With ROX : up to three targets No ROX : up to four targets	With ROX : one target
Carryover contamination control	With UNG No UNG	No UNG	With UNG
Sample tracking dye	No	No	Yes (optional)
Reaction benchtop stability	72 hr	1 hr	8 hr**
Cycling mode/run time	Fast: ~40 min Standard: ~50 min	Fast: ~60 min Standard: ~90 min	Fast: ~30 min Standard: ~60 min
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* For genotyping applications, explore our [master mixes for genetic variation analysis](#).

** For workflows that require up to 72 hours of benchtop stability, use [Applied Biosystems™ PowerUp™ SYBR™ Green Master Mix](#).

Features and benefits of Applied Biosystems™ master mixes:

- **Consistent performance**—help ensure confidence in data reproducibility and accuracy with reagents tailored to the sensitivity and specificity needs of different applications
- **Broad compatibility**—reduce variability with reagents designed to work with a variety of qPCR instruments and assays
- **Simplified workflows**—our comprehensive portfolio of sample prep kits, reverse transcription reagents, and Applied Biosystems™ TaqMan™ Assays can help eliminate the uncertainty that comes with using qPCR products from multiple providers
- **Flexible pricing**—benefit from website pricing, personalized quotes, and promotional offers that may be available
- **Reliable supplier**—access vast resources from a trusted qPCR provider, including technical support, educational resources, supply chain stability, and confidence in performance backed by research citations

 Get more information at thermofisher.com/mastermix

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