apto-life
Bringing PCR to Life

Stratech

Apto-Life offers PCR and (RT-)qPCR enzymes and master mixes developed for the most challenging assays and cutting-edge experimental demands in the life sciences sector. Our expertise and advanced molecular technologies enable optimal product performance across a wide range of applications and sample types.

Apto-Life products have been developed for use in a broad range of life science applications. Our (RT-)qPCR solutions are ideally suited for monitoring gene expression and transcript copy number variations in drug dose response assays, and in the study of infectious and genetic diseases. Our hot-start PCR solutions are ideal for rapid SNP genotyping and biomarker testing, whilst our high-fidelity enzyme technology provides accurate, long PCR for cloning, site-directed mutagenesis, and constructing vector and DNA libraries.

www.stratech.co.uk/apto-gen

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Gene Expression

Apto-Life has developed a broad range of high-quality solutions for studying gene expression and genomics to suit the needs of modern molecular research laboratories. Reverse transcription real-time PCR (RT-qPCR) is a well-established and cost-effective technique that provides valuable insights into gene responses to biological conditions such as pathogen infection, disease states, differentiation status and more. Apto-Life offers high-performance and accurate cDNA synthesis, qPCR and one-step RT-qPCR solutions for gene expression studies.

RevScript cDNA Synthesis Mix

RevScript cDNA Synthesis Mix has been developed for rapid and sensitive cDNA synthesis and delivers both highly efficient first-strand synthesis and high cDNA yields, leading to greater reproducibility and data accuracy.

The two-tube format includes a high-performance 20x RevScript Reverse Transcriptase, blended with RNase inhibitor, and 5x cDNA Synthesis Mix containing an optimized ratio of random hexamer primers and anchored oligo(dT) primers. 20x RevScript Reverse Transcriptase exhibits enhanced thermostability and processivity for robust cDNA synthesis from highly structured and complex RNA templates.

FEATURES

- Reproducible, high-yield cDNA
- Detect low-copy transcript
- cDNA synthesis in under 25 minutes

INFO

Pack code	Product name	Pack size
APL5010.5	RevScript cDNA Synthesis Mix	50 rxn
APL5010.25	RevScript cDNA Synthesis Mix	250 rxn

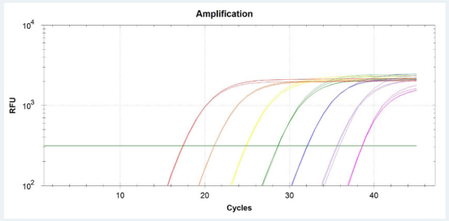
RELATED PRODUCTS

APL5015.5	RevScript cDNA Synthesis Kit	50 rxn
APL5005.2	RevScript Reverse Transcriptase	2000 units
APL1025.2	dUTP Mix	20 µmol

Apto-Life qPCR and RT-qPCR master mixes offer convenient solutions for two-step and one-step RT-qPCR protocols. These solutions are designed to amplify an array of targets, including cDNA, complex GC-rich genomic sequences, as well as viral DNA and RNA. Providing consistently high performance, the mixes are optimized for reliable detection and quantification over a broad dynamic range. Apto-Life qPCR and RT-qPCR mixes are provided in a ready-to-use master mix format and are compatible with all commonly used qPCR platforms (see compatibility chart on Page 4).

SyGr qPCR Mix Blue

SyGr qPCR Mix Blue contains a visualization dye to enable high-throughput qPCR users to easily identify dispensed reaction wells, in both clear and opaque PCR plates. SyGr qPCR Mix Blue also provides the same high qPCR efficiency and sensitivity as our colorless qPCR master mixes from the Apto-Life product range.



High efficiency qPCR of inactivated native Respiratory Syncytial Virus (RSV) over six orders of magnitude

FEATURES

- High sensitivity and speed
- Efficient qPCR over a wide dynamic range
- Easy-to-visualize in-plate reactions

INFO

Pack code	Product name	Pack size
APL2045.5	SyGr qPCR Mix Blue	50 rxn
APL2045.50	SyGr qPCR Mix Blue	500 rxn

RELATED PRODUCTS

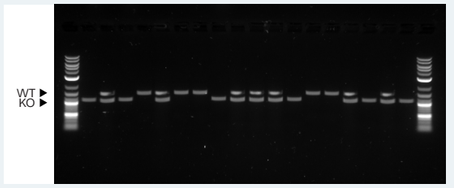
APL2015.5	SyGr RT-qPCR Mix	50 rxn
APL2025.5	Probe qPCR Mix	50 rxn
APL2005.5	Probe RT-qPCR Mix	50 rxn

Genotyping

Genotyping is a commonly used research technique for the identification and comparison of subtle genetic variations between individual or large groups of samples. Apto-Life offers a range of high-quality DNA polymerases and master mixes for allele-specific SNP detection, and mouse-tailing and colony PCR. Our technology provides accurate amplification and genotyping of complex genomic DNA from a variety of specimens including human, animal, plant, bacteria, and fungi.

HS Taq Mix Red

HS Taq Mix Red is optimized for amplification across a broad dynamic range of DNA templates of various lengths (up to 3 kb) and complexity. It is available as a PCR master mix or as separate hot-start Taq polymerase and buffer to enable user optimization.



Mouse tail PCR to identify transgene integration efficacy. Agarose gel electrophoresis shows knock-out (KO; 1.4 kb), wild-type (WT; 2.1 kb), and heterozygous (1.4 and 2.1 kb) genotypes

FEATURES

- Suitable for routine hot-start PCR
- Low-copy target amplification
- Red visualization dye for direct gel loading

INFO

Pack code	Product name	Pack size
APL3020.5	HS Taq Mix Red	50 rxn
APL3020.20	HS Taq Mix Red	200 rxn

RELATED PRODUCTS

APL3010.5	Taq PCR Mix Red	50 rxn
APL3015.5	HS Taq PCR Mix	50 rxn
APL4005.005	HS Taq DNA Polymerase	50 units

Cloning

PCR is fundamental to most cloning strategies due to its high accuracy, efficiency and low-cost. Apto-Life has engineered fast, high-fidelity DNA polymerases for applications that require high accuracy amplification, such as cloning and subcloning for vector generation, and DNA library constructions.

SsoPfu DNA Polymerase

SsoPfu DNA Polymerase is a high-fidelity and highly processive DNA polymerase designed for cloning of long sequences and DNA library preparations. The polymerase has been engineered for amplification of highly-structured, GC-rich templates minimizing sequence bias for DNA sequencing projects.

SsoPfu DNA Polymerase is available as a separate enzyme and buffer or as a ready-to-go PCR master mix.

FEATURES

- Fast, high-processivity DNA Polymerase
- 50-fold higher fidelity than Taq
- Amplification up to 10 kb from human gDNA

INFO

Pack code	Product name	Pack size
APL4035.005	SsoPfu DNA Polymerase	50 units
APL4035.05	SsoPfu DNA Polymerase	500 units

RELATED PRODUCTS

APL3050.5	SsoPfu PCR Mix	50 rxn
Coming soon	HS SsoPfu DNA Polymerase	–
Coming soon	HS SsoPfu PCR Mix	–

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HS Taq Plus DNA Polymerase

HS Taq Plus DNA Polymerase is a fast and higher fidelity Taq DNA polymerase which has been developed for amplification of long targets and PCR cloning into TA vectors. Owing to its intrinsic enhanced inhibitor tolerance and advanced buffer chemistry, HS Taq Plus DNA Polymerase can amplify highly structured DNA from crude samples.

HS Taq Plus DNA Polymerase is available as a separate enzyme and buffer or as a ready-to-go PCR master mix.

FEATURES

- Compatible with TA cloning
- 5-fold higher fidelity than Taq
- Rapid PCR up to 5 kb from human gDNA

INFO

Pack code	Product name	Pack size
APL4010.005	HS Taq Plus DNA Polymerase	50 units
APL4010.05	HS Taq Plus DNA Polymerase	500 units

RELATED PRODUCTS

APL4020.005	Taq Plus DNA Polymerase	50 units
APL3030.5	HS Taq Plus PCR Mix Red	50 rxn
APL3035.5	Taq Plus PCR Mix	50 rxn

qPCR Platform Compatibility Chart

Instrument Model		Apto-Life Product	
Applied Biosystems	QuantStudio 3/5/6/7/12K Flex, ViiA 7, 7500, 7500 Fast	Probe qPCR Mix	APL2025.50
Agilent/Stratagene	MX4000P, MX3005P, MX3000P, AriaMX, AriaDX	Probe RT-qPCR Mix	APL2005.50
Bio-Rad	CFX Opus 96/384/Deepwell, CFX Duet	SyGr qPCR Mix	APL2035.50
BMS	Mic	SyGr qPCR Mix Blue	APL2045.50
Eppendorf	Mastercycler ep realplex	SyGr RT-qPCR Mix	APL2015.50
Qiagen/Corbett	Rotor-Gene Q/3000/6000		
Roche	LightCycler 96/384/Nano		
Applied Biosystems	7900HT, 7700, 7300, 7000, StepOne, StepOnePlus	Probe qPCR Hi-ROX Mix	APL2030.50
		Probe RT-qPCR Hi-ROX Mix	APL2010.50
		SyGr qPCR Hi-ROX Mix	APL2040.50
		SyGr qPCR Hi-ROX Mix Blue	APL2050.50
		SyGr RT-qPCR Hi-ROX Mix	APL2020.50

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