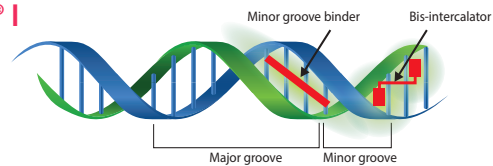


Intercalating Dye

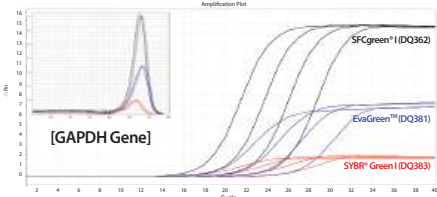
SFCgreen® I

국내 OLED 소재 선도기업에서 개발한 형광 염료인 SFCgreen® I

- Bis-intercalator 로써 DNA minor groove에 결합하여 발광
- Hot Start PCR 용 Enzyme 사용으로 특이도 높게 증폭 가능
(H-Star Taq DNA Polymerase / A-Star Taq DNA Polymerase)
- SYBR® Green I & EvaGreen™ 과 유사한 파장
- HRM 및 Melting curve Analysis 가능
- SFCgreen® I 의 우수한 민감도와 열, 빛, 화학물질에 대한 형광 안정성으로 Real-Time PCR system에 적합
- 기종에 따라 passive reference dye 사용 여부가 달라 많은 기종에 적합하도록 다양한 재품을 생산하여 사용자의 편의성을 높임
- 안전성 (Non-toxic)



▶ Efficiency Test



BioFACT™ 2X Real-Time PCR Master Mix, including SFCgreen® I in mixture



- BioFACT™ H-Star Taq 계열
- BioFACT™ A-Star Taq 계열
- Low ROX / High ROX 선택 가능
- UDG 적용된 제품 선택 가능

BioFACT™ 2X Real-Time PCR Pre-Mix, including SFCgreen® I in mixture



- Tube Type 별 선택 가능
(0.1ml 8-Strip White / Frosted / Clear Tube Type)
- Low ROX / High ROX 선택 가능
- BioFACT™ H-Star Taq 계열
- BioFACT™ A-Star Taq 계열
- UDG 적용된 제품 선택 가능

20X SFCgreen® I

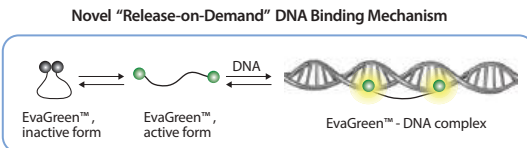


- 높은 민감도
- 빛과 열에 안정적
- PCR inhibition이 낮아 고농도에서도 PCR 증폭 효율이 높음

EvaGreen™

EvaGreen™ 을 이용한 정확하고 민감도 높은 Real-Time PCR

- Double strand DNA 의 정량화를 위한 형광 염료로 높은 농도에서도 PCR inhibition이 적으며, SYBR® Green I 과 유사한 파장대로 대부분의 qPCR 기기에 호환이 가능
- Chemical-mediated를 이용한 BioFACT™ H-Star Taq 계열
- 안전성 (Non-toxic, Non-mutagenic)



BioFACT™ Real-Time PCR Kit



BioFACT™ 2X Real-Time PCR Master Mix, with EvaGreen™



BioFACT™ 2X Real-Time PCR Master Mix, including EvaGreen™



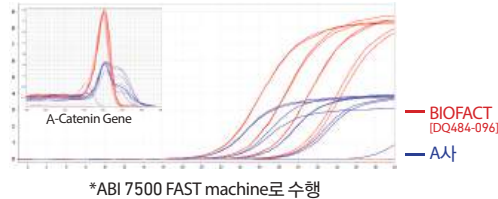
Intercalating Dye

SYBR® Green I

DNA-Binding dye system 의 대표적인 SYBR® Green I Dye

- Hot Start PCR 용 Enzyme 사용으로 특이도 높게 증폭 가능
(H-Star Taq DNA Polymerase)
- ROX reference dye의 농도를 선택하여 사용하실 수 있도록 w/o / Low / High ROX reference dye 3가지 type으로 출시

▶ Efficiency Test



BioFACT™ 2X Real-Time PCR Master Mix, including SYBR® Green I in mixture



- ROX reference dye의 농도 선택 가능
w/o ROX reference dye [DQ383-40h]
Low ROX reference dye [DQ384-40h]
High ROX reference dye [DQ385-40h]

BioFACT™ 2X Real-Time PCR Pre-Mix, including SYBR® Green I in mixture



- ROX reference dye의 농도 선택 가능
w/o ROX reference dye (W,F,C) [DQ483-096]
Low ROX reference dye (W,F,C) [DQ484-096]
High ROX reference dye (F) [DQ485-096]

Probe

다양한 진단키트에 사용되는 Probe용 Real-Time PCR 키트

Standard Real-Time PCR



- Sequence specific probe를 이용한 Real-Time PCR 실험 시, 손쉽게 셋팅 할 수 있도록 최적화된 PCR Mixture
- RNA를 Template로 RT와 Real-Time PCR을 한번에
- Thermostable RTase 와 Hot start PCR Enzyme 이용

Fast Real-Time PCR



- 빠른 Real-Time PCR과 qRT-PCR을 위한 PCR Mixture
- 각 PCR 단계별 (denaturation, annealing, extension) 시간을 대폭 줄여 기존 2시간 이상 소요되는 Real-time PCR 시간을 40분 이내로 단축

	SFCgreen® I Dye	SYBR® Green I Dye	EvaGreen™ Dye	Standard Probe	Fast Probe
Sensitivity	****	**	***	****	****
Specificity	*	*	*	****	****
Fluorescent signal	****	**	****	**	**
Multiplex PCR	Impossible	Impossible	Impossible	Possible	Possible
Melting curve	required	required	required	Not required	Not required
Primer & Probe design	Easy	Easy	Easy	Difficult	Difficult
Running Time	> 2hr	> 2hr	> 2hr	> 1hr 30min	< 40min

Selection Guide

- Real-Time PCR series

Applied Biosystems (ABI)



< 7500, 7500 FAST >



< QuantaStudio 12K Flex >



< Viai™7 >

Agilent (Stratagene)



< Mx3000P, Mx3005P >



< Mx4000 >



< AriaMx >

Type I	Type II	Cat.No.	Product	Size
SFCgreen® I (Intercalating Dye)	Standard qPCR	DQ362-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥, including SFCgreen® I	1 mL x 4 ea
		DQ367-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥, including SFCgreen® I (UDG System)	1 mL x 4 ea
		DQ352-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥, including SFCgreen® I	1 mL x 4 ea
		DQ357-40h	BioFACT™ 2X Real-time PCR Master Mix ⑥, including SFCgreen® I (UDG System)	1 mL x 4 ea
SYBR® Green I (Intercalating Dye)	Standard qPCR	DQ384-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥, including SYBR® Green I	1 mL x 4 ea
		DQ388-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥, including SYBR® Green I	1 mL x 4 ea
	Fast qPCR	FDQ388-40h	FastFACT™ 2X Real-Time PCR Master Mix including SYBR® Green I	1 mL x 4 ea
EvaGreen™ (Intercalating Dye)	Standard qPCR	DQ376-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥, including EvaGreen™	1 mL x 4 ea
Probe	Standard qPCR	DQ325-25h	BioFACT™ 2X Multi-Star Real-Time PCR Master Mix ⑥ (For Probe)	0.5 mL x 5 ea

* Low ROX 가 포함된 제품입니다. * Pre-Mix Type 별도 문의 : White Tube(W), Frosted Tube(F), Clear Tube(C) 중 선택 가능
* 형광 종류에 따라 기기별 형광 민감도(Rn 값)가 달라질 수 있습니다. 자세한 상담은 바이오팩트로 문의바랍니다. (☎1670-5695)

Applied Biosystems (ABI)



< StepOne™, StepOnePlus™ >



< 7000 >



< 7300 >



< 7900 HT, 7900 HT FAST >

Type I	Type II	Cat.No.	Product	Size
SFCgreen® I (Intercalating Dye)	Standard qPCR	DQ363-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥, including SFCgreen® I	1 mL x 4 ea
		DQ368-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥, including SFCgreen® I (UDG System)	1 mL x 4 ea
		DQ353-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥, including SFCgreen® I	1 mL x 4 ea
		DQ358-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥, including SFCgreen® I (UDG System)	1 mL x 4 ea
SYBR® Green I (Intercalating Dye)	Standard qPCR	DQ385-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥, including SYBR® Green I	1 mL x 4 ea
	Standard qRT-PCR	RQ353-10h	BioFACT™ 2X Multi-Star OneStep qRT-PCR Master Mix ⑥, including SYBR® Green I	1 mL x 1 ea

* High ROX 가 포함된 제품입니다. * Pre-Mix Type 별도 문의 : Frosted Tube(F) * 적용가능기기 StepOne™, StepOnePlus™, 7000, 7300, 7900 HT, 7900 HT FAST, 7700, 7900, PRISM 5700
* 형광 종류에 따라 기기별 형광 민감도(Rn 값)가 달라질 수 있습니다. 자세한 상담은 바이오팩트로 문의바랍니다. (☎1670-5695)

▶▷ ROX Dye 가 포함되지 않은 제품으로 기종에 따라 ROX 를 첨가하여 사용 가능한 제품입니다.

Type I	Type II	Cat.No.	Product	Size
SFCgreen® I (Intercalating Dye)	Standard qRT-PCR	RQ361-10h	BioFACT™ 2X Multi-Star OneStep qRT-PCR Master Mix ⑥, including SFCgreen® I	1 mL x 1 ea
	Standard qPCR	DQ383-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥, including SYBR® Green I	1 mL x 4 ea
SYBR® Green I (Intercalating Dye)	Standard qRT-PCR	RQ351-10h	BioFACT™ 2X Multi-Star OneStep qRT-PCR Master Mix ⑥, including SYBR® Green I	1 mL x 1 ea
	Fast qPCR	FDQ387-40h	FastFACT™ 2X Real-Time PCR Master Mix including SYBR® Green I	1 mL x 4 ea
w/o EvaGreen™ (Inter- calating Dye)	Standard qPCR	DQ116-250	BioFACT™ Real-Time PCR Kit with 10 mM dNTP Mix ⑥	250 U
		DQ116-500	BioFACT™ Real-Time PCR Kit with 10 mM dNTP Mix ⑥	500 U
		DQ372-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥	1 mL x 4 ea
EvaGreen™ (Intercalating Dye)	Standard qPCR	DQ191-250	BioFACT™ Real-Time PCR Kit with 10 mM dNTP Mix ⑥, with EvaGreen™ 500 µL	250 U
		DQ191-500	BioFACT™ Real-Time PCR Kit with 10 mM dNTP Mix ⑥, with EvaGreen™ 500 µL	500 U
		DQ371-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥, with EvaGreen™ 500 µL	1 mL x 4 ea
		DQ381-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥, including EvaGreen™	1 mL x 4 ea
Probe	Standard qPCR	DQ322-25h	BioFACT™ 2X Multi-Star Real-Time PCR Master Mix ⑥ (For Probe)	0.5 mL x 5 ea
		DQ342-25h	BioFACT™ 2X Multi-Star Real-Time PCR Master Mix ⑥ (For Probe, UDG System)	0.5 mL x 5 ea
		RQ811-050	BioFACT™ OneStep Multi-Star qRT-PCR Kit ⑥ (For Probe)	50 reaction
		RQ811-100	BioFACT™ OneStep Multi-Star qRT-PCR Kit ⑥ (For Probe)	100 reaction
	Standard qRT-PCR	RQ321-10h	BioFACT™ 2X OneStep qRT-PCR Master Mix ⑥ (For Probe)	1 mL x 1 ea
		RQ341-10h	BioFACT™ 2X OneStep qRT-PCR Master Mix ⑥ (For Probe)	1 mL x 1 ea
		FDQ301-25h	FastFACT™ 2X qPCR Master Mix (For Probe)	0.5 mL x 5 ea
		FRQ301-10h	FastFACT™ 2X qRT-PCR Master Mix (For Probe, UDG System)	1 mL x 1 ea

* Pre-Mix Type 별도 문의 : White Tube(W), Frosted Tube(F), Clear Tube(C) 중 선택 가능. * ROX 가 포함되지 않은 제품입니다.
* 형광 종류에 따라 기기별 형광 민감도(Rn 값)가 달라질 수 있습니다. 자세한 상담은 바이오팩트로 문의바랍니다. (☎1670-5695)

QIAGEN



< Rotor-Gene 3000 >



< Rotor-Gene 6000 >



< Rotor-Gene® Q >

Type I	Type II	Cat.No.	Product	Size
SFCgreen® I (Intercalating Dye)	Standard qPCR	DQ362-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥, including SFCgreen® I	1 mL x 4 ea
		DQ367-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥, including SFCgreen® I (UDG System)	1 mL x 4 ea
		DQ352-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥, including SFCgreen® I	1 mL x 4 ea
		DQ357-40h	BioFACT™ 2X Real-time PCR Master Mix ⑥, including SFCgreen® I (UDG System)	1 mL x 4 ea
SYBR® Green I (Inter- calating Dye)	Standard qPCR	DQ383-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥, including SYBR® Green I	1 mL x 4 ea
w/o EvaGreen™ (Inter- calating Dye)		DQ116-250	BioFACT™ Real-Time PCR Kit with 10 mM dNTP Mix ⑥	250 U
		DQ116-500	BioFACT™ Real-Time PCR Kit with 10 mM dNTP Mix ⑥	500 U
		DQ372-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥	1 mL x 4 ea
EvaGreen™ (Intercalating Dye)	Standard qPCR	DQ191-250	BioFACT™ Real-Time PCR Kit with 10 mM dNTP Mix ⑥, with EvaGreen™ 500 µL	250 U
		DQ191-500	BioFACT™ Real-Time PCR Kit with 10 mM dNTP Mix ⑥, with EvaGreen™ 500 µL	500 U
		DQ371-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥, with EvaGreen™ 500 µL	1 mL x 4 ea
		DQ381-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥, including EvaGreen™	1 mL x 4 ea
Probe	Standard qPCR	DQ322-25h	BioFACT™ 2X Multi-Star Real-Time PCR Master Mix ⑥ (For Probe)	0.5 mL x 5 ea
		DQ342-25h	BioFACT™ 2X Multi-Star Real-Time PCR Master Mix ⑥ (For Probe, UDG System)	0.5 mL x 5 ea
		RQ811-050	BioFACT™ OneStep Multi-Star qRT-PCR Kit ⑥ (For Probe)	50 reaction
		RQ811-100	BioFACT™ OneStep Multi-Star qRT-PCR Kit ⑥ (For Probe)	100 reaction
	Standard qRT-PCR	RQ321-10h	BioFACT™ 2X OneStep qRT-PCR Master Mix ⑥ (For Probe)	1 mL x 1 ea
		RQ341-10h	BioFACT™ 2X OneStep qRT-PCR Master Mix ⑥ (For Probe)	1 mL x 1 ea
		FDQ301-25h	FastFACT™ 2X qPCR Master Mix (For Probe)	0.5 mL x 5 ea
		FRQ301-10h	FastFACT™ 2X qRT-PCR Master Mix (For Probe, UDG System)	1 mL x 1 ea

* QIAGEN 전용 Real-Time PCR Tube는 별도 문의 바랍니다.
* 형광 종류에 따라 기기별 형광 민감도(Rn 값)가 달라질 수 있습니다. 자세한 상담은 바이오팩트로 문의바랍니다. (☎1670-5695)

BIO-RAD



< CFX96™, CFX384™ >



< Opticon®2 >



< MiniOpticon™ >



< Chromo4™ >

Roche



< LightCycler® 96 >



< LightCycler® 480 >



< LightCycler® Nano >



< Dice® Real-Time System
TP900, TP700, TP850 >

Type I	Type II	Cat.No.	Product	Size
SFCgreen® I (Intercalating Dye)	Standard qPCR	DQ362-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥, including SFCgreen® I	1 mL x 4 ea
		DQ367-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥, including SFCgreen® I (UDG System)	1 mL x 4 ea
		DQ352-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥, including SFCgreen® I	1 mL x 4 ea
		DQ357-40h	BioFACT™ 2X Real-time PCR Master Mix ⑥, including SFCgreen® I (UDG System)	1 mL x 4 ea
SYBR® Green I (Intercalating Dye)	Standard qPCR	RQ361-10h	BioFACT™ 2X Multi-Star OneStep qRT-PCR Master Mix ⑥, including SFCgreen® I	1 mL x 1 ea
		DQ383-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥, including SYBR® Green I	1 mL x 4 ea
	Standard qRT-PCR	RQ351-10h	BioFACT™ 2X Multi-Star OneStep qRT-PCR Master Mix ⑥, including SYBR® Green I	1 mL x 1 ea
w/o EvaGreen™ (Inter- calating Dye)	Standard qPCR	DQ116-250	BioFACT™ Real-Time PCR Kit with 10 mM dNTP Mix ⑥	250 U
		DQ116-500	BioFACT™ Real-Time PCR Kit with 10 mM dNTP Mix ⑥	500 U
		DQ372-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥	1 mL x 4 ea
EvaGreen™ (Intercalating Dye)	Standard qPCR	DQ191-250	BioFACT™ Real-Time PCR Kit with 10 mM dNTP Mix ⑥, with EvaGreen™ 500 µL	250 U
		DQ191-500	BioFACT™ Real-Time PCR Kit with 10 mM dNTP Mix ⑥, with EvaGreen™ 500 µL	500 U
		DQ371-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥, with EvaGreen™ 500 µL	1 mL x 4 ea
		DQ381-40h	BioFACT™ 2X Real-Time PCR Master Mix ⑥, including EvaGreen™	1 mL x 4 ea
Probe	Standard qPCR	DQ322-25h	BioFACT™ 2X Multi-Star Real-Time PCR Master Mix ⑥ (For Probe)	0.5 mL x 5 ea
		DQ342-25h	BioFACT™ 2X Multi-Star Real-Time PCR Master Mix ⑥ (For Probe, UDG System)	0.5 mL x 5 ea
		RQ811-050	BioFACT™ OneStep Multi-Star qRT-PCR Kit ⑥ (For Probe)	50 reaction
		RQ811-100	BioFACT™ OneStep Multi-Star qRT-PCR Kit ⑥ (For Probe)	100 reaction
	Standard qRT-PCR	RQ321-10h	BioFACT™ 2X OneStep qRT-PCR Master Mix ⑥ (For Probe)	1 mL x 1 ea
		RQ341-10h	BioFACT™ 2X OneStep qRT-PCR Master Mix ⑥ (For Probe)	1 mL x 1 ea
		FDQ301-25h	FastFACT™ 2X qPCR Master Mix (For Probe)	0.5 mL x 5 ea
		FRQ301-10h	FastFACT™ 2X qRT-PCR Master Mix (For Probe, UDG System)	1 mL x 1 ea

* Pre-Mix Type 별도 문의 : White Tube(W), Frosted Tube(F), Clear Tube(C) 중 선택 가능
* 형광 종류에 따라 기기별 형광 민감도(Rn 값)가 달라질 수 있습니다. 자세한 상담은 바이오팩트로 문의바랍니다. (☎1670-5695)