

RTF Optimization Plates

Introduction:

Optimizing conditions is critical to the success of siRNA screens. In support of screens using RTF siRNA Libraries, we offer RTF Optimization Plates with either siGENOME™ or ON-TARGETplus™ Control siRNA Reagents.

These products are available in standard clear cell culture plates, as well as white or black-walled plates for assays with luminescent or fluorescent readouts.

RTF Optimization Plates are available with or without DharmaFECT™ Cell Culture Reagent (DCCR). See Table 1. for catalog numbers and descriptions of available products. RTF Optimization plates are provided in triplicate with human or mouse product line-specific controls (see Table 2). All controls are plated at 6.25 pmol per well, ready for resuspension and use at 50 nM concentration (see RTF Optimization Plate Protocol for details).

Table 1. RTF Optimization Plates: Available products:

Cat. #	Description	Plate color	100 mL DCCR included
H-102200	RTF Optimization Plates - ON-TARGETplus Human	Clear	
H-102200-D	RTF Optimization Plates - ON-TARGETplus Human + DCCR	Clear	✓
H-102200B	RTF Optimization Plates (black) - ON-TARGETplus Human	Black	
H-102200B-D	RTF Optimization Plates (black) - ON-TARGETplus Human+ DCCR	Black	✓
H-102200W	RTF Optimization Plates (white) - ON-TARGETplus Human	White	
H-102200W-D	RTF Optimization Plates (white) - ON-TARGETplus Human+ DCCR	White	✓
H-112200	RTF Optimization Plates - ON-TARGETplus Mouse	Clear	
H-112200-D	RTF Optimization Plates - ON-TARGETplus Mouse + DCCR	Clear	✓
H-112200B	RTF Optimization Plates (black) - ON-TARGETplus Mouse	Black	
H-112200B-D	RTF Optimization Plates (black) - ON-TARGETplus Mouse+ DCCR	Black	✓
H-112200W	RTF Optimization Plates (white) - ON-TARGETplus Mouse	White	
H-112200W-D	RTF Optimization Plates (white) - ON-TARGETplus Mouse+ DCCR	White	✓
H-002200	RTF Optimization Plates - siGENOME Human/Mouse	Clear	
H-002200-D	RTF Optimization Plates - siGENOME Human/Mouse + DCCR	Clear	✓
H-002200B	RTF Optimization Plates (black) - siGENOME Human/Mouse	Black	
H-002200B-D	RTF Optimization Plates (black) - siGENOME Human/Mouse+ DCCR	Black	✓
H-002200W	RTF Optimization Plates (white) - siGENOME Human/Mouse	White	
H-002200W-D	RTF Optimization Plates (white) - siGENOME Human/Mouse+ DCCR	White	✓

Table 2. RTF Optimization Plate contents:

ON-TARGETplus RTF Optimization Plates - Human		
Row A	ON-TARGETplus Non-targeting siRNA #1	D-001810-01
Row B	ON-TARGETplus Non-targeting siRNA #2	D-001810-02
Row C	ON-TARGETplus Non-targeting siRNA #3	D-001810-03
Row D	ON-TARGETplus Non-targeting siRNA #4	D-001810-04
Row E	ON-TARGETplus Non-targeting pool	D-001810-10
Row F	ON-TARGETplus Human Cyclophilin B control pool	D-001820-10



ON-TARGET_{plus} RTF Optimization Plates - Mouse

Row A	ON-TARGET _{plus} Non-targeting siRNA #1	D-001810-01
Row B	ON-TARGET _{plus} Non-targeting siRNA #2	D-001810-02
Row C	ON-TARGET _{plus} Non-targeting siRNA #3	D-001810-03
Row D	ON-TARGET _{plus} Non-targeting siRNA #4	D-001810-04
Row E	ON-TARGET _{plus} Non-targeting pool	D-001810-10
Row F	ON-TARGET _{plus} Mouse Cyclophilin B control pool	D-001820-20

siGENOME RTF Optimization Plates - Human/Mouse

Row A	siGENOME Non-targeting siRNA #2	D-001210-02
Row B	siGENOME Non-targeting siRNA #3	D-001210-03
Row C	siGENOME Non-targeting siRNA #4	D-001210-04
Row D	siGENOME Non-targeting siRNA #5	D-001210-05
Row E	siGENOME Non-targeting pool #2	D-001206-14
Row F	siGENOME Cyclophilin B control pool (H, M, R) Control siRNA	D-001136-01

Shipping and Storage:

- RTF Optimization Plate reagents are shipped dried-down at ambient temperature in sealed 96-well plates. Under these conditions, the reagents are stable for at least four weeks.
 - Clear plates (standard): Nunc™ (Thermo Scientific Cat. #152039); Fisher Scientific (Cat. #12-565-901)
 - White plates: Nunc™ (Thermo Scientific Cat. #152028); Fisher Scientific (Cat. #12-565-903)
 - Black plates: Nunc™ (Thermo Scientific Cat. #152037); Fisher Scientific (Cat. #2-565-902)
 - Easy Pierce™ Heat Seal (Thermo Scientific Cat. #AB-3738)
- Upon receipt, RTF library plates should be stored at +4 °C. Freezing is not recommended.
- 100 mL DharmaFECT Cell Culture Reagent (DCCR); (Cat. #B-004500-100) is supplied as a liquid at a concentration of 1x. Store at either +4 °C or room temperature. This reagent alone does not support cell culture and is not a replacement for cell culture medium.

Related Products:

Product	Description
siGENOME and ON-TARGET _{plus} RTF siRNA Libraries	<ul style="list-style-type: none"> Identify specific genes of interest from entire pathways and gene families Convenient high throughput and rapid screening technique by the effective delivery of siRNA to mammalian cells by reverse transfection SMARTpool siRNAs in a 96-well format Provided as six replicates Custom gene collections available upon request
DharmaFECT siRNA Transfection Reagents	<ul style="list-style-type: none"> siRNA transfection reagents available in four unique lipid-based formulations Optimized for efficient delivery of siRNA into mammalian cells with minimal impact on cell viability Catalog numbers: T-2001-0x, T-2002-0x, T-2003-0x, T-2004-0x
DharmaFECT Cell Culture Reagent (DCCR)	<ul style="list-style-type: none"> Complexing solution demonstrated to result in minimal cell toxicity Recommended for use with Thermo Scientific RTF siRNA Libraries Cat. #B-004500-100 (100 mL) Provided with RTF Optimization Plates with catalog numbers ending in -D.

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gelifesciences.com/dharmacon

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 Technical Support: ts.dharmacon@ge.com or
 1.800.235.9880; 303.604.9499 if you have any questions.