

# Dharmacon<sup>TM</sup> SMARTvector<sup>TM</sup> lentiviral shRNA and shMIMIC microRNA controls

## Requirements

25 µL × 2 (50 µL total) of  $1 \times 10^8$  TU/mL or greater

## Itemized list of contents

Lentiviral Particles (net quantity 0.025 mL per vial)

Dry Ice (net quantity 15 kg)

### A. SMARTvector con-targeting (NTC) negative controls expressing TurboGFP

Cat #	Item description	Lot number_Titer*	Volume	Qty
S-005000-01	hCMV-TurboGFP-NTC	V15101507_3.63 × 10 <sup>8</sup> TU/mL V17080403_5.61 × 10 <sup>8</sup> TU/mL	25 µL	2
S01-005000-01	mCMV-TurboGFP-NTC	V15120405_8.69 × 10 <sup>8</sup> TU/mL V16071403_2.71 × 10 <sup>8</sup> TU/mL V18010404_4.76 × 10 <sup>8</sup> TU/mL	25 µL	2
S02-005000-01	hEF1α-TurboGFP-NTC	V16040105_3.35 × 10 <sup>8</sup> TU/mL V18010505_1.73 × 10 <sup>8</sup> TU/mL	25 µL	2
S03-005000-01	mEF1α-TurboGFP-NTC	V16020406_1.29 × 10 <sup>8</sup> TU/mL	25 µL	2
S05-005000-01	CAG-TurboGFP-NTC	V16060901_9.04 × 10 <sup>8</sup> TU/mL V16081203_9.19 × 10 <sup>8</sup> TU/mL	25 µL	2
S06-005000-01	PGK-TurboGFP-NTC	V16060901_9.04 × 10 <sup>8</sup> TU/mL V18012606_8.52 × 10 <sup>8</sup> TU/mL	25 µL	2
S04-005000-01	UBC-TurboGFP-NTC	V16111007_1.84 × 10 <sup>8</sup> TU/mL	25 µL	2
VSC10236	hCMV-TurboGFP Non-targeting Control #2	V18042701_2.53 × 10 <sup>8</sup> TU/mL	25 µL	2

### B. SMARTvector non-targeting (NTC) negative controls expressing TurboRFP

Cat #	Item description	Lot number_Titer*	Volume	Qty
S07-005000-01	hCMV-TurboRFP-NTC	V16120205_7.13 × 10 <sup>8</sup> TU/mL V17081706_5.53 × 10 <sup>8</sup> TU/mL	25 µL	2
S08-005000-01	mCMV-TurboRFP-NTC	V16071404_9.10 × 10 <sup>8</sup> TU/mL V17081706_4.08 × 10 <sup>8</sup> TU/mL	25 µL	2
S09-005000-01	hEF1α-TurboRFP-NTC	V16031001_3.49 × 10 <sup>8</sup> TU/mL V16120806_2.92 × 10 <sup>8</sup> TU/mL V18022302_1.25 × 10 <sup>8</sup> TU/mL	25 µL	2
S10-005000-01	mEF1α-TurboRFP-NTC	V16031001_3.51 × 10 <sup>8</sup> TU/mL	25 µL	2
S12-005000-01	CAG-TurboRFP-NTC	V16111707_1.80 × 10 <sup>8</sup> TU/mL	25 µL	2
S13-005000-01	PGK-TurboRFP-NTC	V16031001_1.00 × 10 <sup>8</sup> TU/mL	25 µL	2
S11-005000-01	UBC-TurboRFP-NTC	V16111007_1.38 × 10 <sup>8</sup> TU/mL	25 µL	2

### C. SMARTvector non-targeting controls without fluorescent reporter

Cat #	Item description	Lot number_Titer*	Volume	Qty
VSC7078	hCMV-No Reporter-NTC	V16060303_1.36 × 10 <sup>9</sup> TU/mL V18012604_2.09 × 10 <sup>8</sup> TU/mL	25 µL	2
VSC7079	mCMV-No Reporter-NTC	V15030501_2.53 × 10 <sup>8</sup> TU/mL V17010606_1.54 × 10 <sup>9</sup> TU/mL	25 µL	2
VSC7080	hEF1α-No Reporter-NTC	V17010606_9.31 × 10 <sup>8</sup> TU/mL	25 µL	2
VSC7081	mEF1α-No Reporter-NTC	<b>Pending production</b>	25 µL	2
VSC7084	PGK-No Reporter-NTC	V15030503_5.39 × 10 <sup>8</sup> TU/mL V17011205_8.15 × 10 <sup>8</sup> TU/mL	25 µL	2

#### D. SMARTvector human GAPD shRNA and shMIMIC microRNA control particles with TurboGFP

Cat #	Item description	Lot number_Titer*	Volume	Qty
S-001000-01	hCMV-TurboGFP-hGAPD	V16031704_5.02 × 10 <sup>8</sup> TU/mL V16060304_8.47 × 10 <sup>8</sup> TU/mL	25 µL	2
S01-001000-01	mCMV-TurboGFP-hGAPD	V15012303_2.20 × 10 <sup>8</sup> TU/mL V15050801_2.09 × 10 <sup>8</sup> TU/mL V16071404_5.79 × 10 <sup>8</sup> TU/mL	25 µL	2
S02-001000-01	hEF1α-TurboGFP-hGAPD	V16042101_1.67 × 10 <sup>8</sup> TU/mL	25 µL	2
S03-001000-01	mEF1α-TurboGFP-hGAPD	V15071703_1.11 × 10 <sup>9</sup> TU/mL V16071404_1.45 × 10 <sup>8</sup> TU/mL	25 µL	2
S05-001000-01	CAG-TurboGFP-hGAPD	V15061202_2.30 × 10 <sup>8</sup> TU/mL	25 µL	2
S06-001000-01	PGK-TurboGFP-hGAPD	V13091303_7.61 × 10 <sup>8</sup> TU/mL	25 µL	2
S04-001000-01	UBC-TurboGFP-hGAPD	V13091303_3 × 10 <sup>8</sup> TU/mL	25 µL	2

#### E. SMARTvector human GAPD shRNA and shMIMIC microRNA control particles with TurboRFP

Cat #	Item description	Lot number_Titer*	Volume	Qty
S07-001000-01	hCMV-TurboRFP-hGAPD	V14071803_1.35 × 10 <sup>9</sup> TU/mL V16071405_2.72 × 10 <sup>8</sup> TU/mL	25 µL	2
S08-001000-01	mCMV-TurboRFP-hGAPD	V14071803_1.37 × 10 <sup>9</sup> TU/mL V17010603_3.04 × 10 <sup>8</sup> TU/mL	25 µL	2
S09-001000-01	hEF1α-TurboRFP-hGAPD	V14071802_1.22 × 10 <sup>9</sup> TU/mL V16110402_2.05 × 10 <sup>8</sup> TU/mL	25 µL	2
S10-001000-01	mEF1α-TurboRFP-hGAPD	V14071802_1.41 × 10 <sup>9</sup> TU/mL V16071403_2.04 × 10 <sup>8</sup> TU/mL	25 µL	2
S12-001000-01	CAG-TurboRFP-hGAPD	V15061102_3.83 × 10 <sup>8</sup> TU/mL V15073002_2.26 × 10 <sup>8</sup> TU/mL	25 µL	2
S13-001000-01	PGK-TurboRFP-hGAPD	V13091303_2.67 × 10 <sup>8</sup> TU/mL	25 µL	2
S11-001000-01	UBC-TurboRFP-hGAPD	V13091304_9.27 × 10 <sup>8</sup> TU/mL	25 µL	2

#### F. SMARTvector human GAPD shRNA and shMIMIC microRNA control particles without fluorescent reporter

Cat #	Item description	Lot number_Titer*	Volume	Qty
VSH7036	hCMV-No Reporter-hGAPD	V15030501_4.01 × 10 <sup>8</sup> TU/mL V16120205_7.22 × 10 <sup>8</sup> TU/mL		2
VSH7037	mCMV-No Reporter-hGAPD	V15030502_4.28 × 10 <sup>8</sup> TU/mL V17010606_1.83 × 10 <sup>9</sup> TU/mL		2
VSH7038	hEF1α-No Reporter-hGAPD	V15030502_2.53 × 10 <sup>8</sup> TU/mL V17011205_2.83 × 10 <sup>8</sup> TU/mL		2
VSH7039	mEF1α-No Reporter-hGAPD	<b>Pending production</b>		2
VSH7042	PGK-No Reporter-hGAPD	V15030503_2.87 × 10 <sup>8</sup> TU/mL V17011205_9.94 × 10 <sup>8</sup> TU/mL		2

#### G. SMARTvector mouse GAPD shRNA and shMIMIC microRNA control particles with TurboGFP

Cat #	Item description	Lot number_Titer*	Volume	Qty
S-002000-01	hCMV-TurboGFP-mGAPD	V14071704_2.02 × 10 <sup>9</sup> TU/mL V15101508_9.14 × 10 <sup>8</sup> TU/mL	25 µL	2
S01-002000-01	mCMV-TurboGFP-mGAPD	V14071803_1.77 × 10 <sup>9</sup> TU/mL V15101508_6.33 × 10 <sup>8</sup> TU/mL	25 µL	2
S02-002000-01	hEF1α-TurboGFP-mGAPD	V14071802_1.14 × 10 <sup>9</sup> TU/mL V16110402_1.71 × 10 <sup>8</sup> TU/mL V1801903_2.21 × 10 <sup>8</sup> TU/mL	25 µL	2
S03-002000-01	mEF1α-TurboGFP-mGAPD	V14071705_1.51 × 10 <sup>9</sup> TU/mL V16111007_1.51 × 10 <sup>8</sup> TU/mL	25 µL	2
S05-002000-01	CAG-TurboGFP-mGAPD	V13091304_1.89 × 10 <sup>8</sup> TU/mL V16100608_1.17 × 10 <sup>9</sup> TU/mL	25 µL	2
S06-002000-01	PGK-TurboGFP-mGAPD	V13062703_6.41 × 10 <sup>8</sup> TU/mL V17090703_5.57 × 10 <sup>8</sup> TU/mL	25 µL	2
S04-002000-01	UBC-TurboGFP-mGAPD	V13091304_3.36 × 10 <sup>8</sup> TU/mL	25 µL	2

#### H. SMARTvector mouse GAPD shRNA and shMIMIC microRNA control particles with TurboRFP

Cat #	Item description	Lot number_Titer*	Volume	Qty
S07-002000-01	hCMV-TurboRFP-mGAPD	V14071705_1.43 × 10 <sup>9</sup> TU/mL V16110402_3.97 × 10 <sup>8</sup> TU/mL	25 µL	2
S08-002000-01	mCMV-TurboRFP-mGAPD	V14071803_1.41 × 10 <sup>9</sup> TU/mL V16110402_1.09 × 10 <sup>8</sup> TU/mL	25 µL	2
S09-002000-01	hEF1α-TurboRFP-mGAPD	V14071802_1.41 × 10 <sup>9</sup> TU/mL V16111007_1.06 × 10 <sup>8</sup> TU/mL	25 µL	2
S10-002000-01	mEF1α-TurboRFP-mGAPD	V14071705_1.41 × 10 <sup>9</sup> TU/mL V16111007_1.18 × 10 <sup>8</sup> TU/mL	25 µL	2
S12-002000-01	CAG-TurboRFP-mGAPD	V13091304_3.46 × 10 <sup>8</sup> TU/mL	25 µL	2
S13-002000-01	PGK-TurboRFP-mGAPD	V13092602_7.77 × 10 <sup>8</sup> TU/mL	25 µL	2
S11-002000-01	PGK-No Reporter-mGAPD	V13091304_1.04 × 10 <sup>8</sup> TU/mL	25 µL	2

#### I. SMARTvector mouse GAPD shRNA and shMIMIC microRNA control particles without fluorescent reporter

Cat #	Item description	Lot number_Titer*	Volume	Qty
VSM7050	hCMV-No Reporter-mGAPD		25 µL	2
VSM7051	mCMV-No Reporter-mGAPD	<b>Pending production</b>	25 µL	2
VSM7052	hEF1α-No Reporter-mGAPD		25 µL	2
VSM7053	mEF1α-No Reporter-mGAPD		25 µL	2
VSM7056	PGK-No Reporter-mGAPD		25 µL	2

#### J. SMARTvector rat GAPD shRNA and shMIMIC microRNA control particles with TurboGFP

Cat #	Item description	Lot number_Titer*	Volume	Qty
S-003000-01	hCMV-TurboGFP-rGAPD		25 µL	2
S01-003000-01	mCMV-TurboGFP-rGAPD		25 µL	2
S02-003000-01	hEF1α-TurboGFP-rGAPD		25 µL	2
S03-003000-01	mEF1α-TurboGFP-rGAPD	Pending production	25 µL	2
S05-003000-01	CAG-TurboGFP-rGAPD		25 µL	2
S06-003000-01	PGK-TurboGFP-rGAPD		25 µL	2
S04-003000-01	UBC-TurboGFP-rGAPD		25 µL	2

#### K. SMARTvector Rat GAPD shRNA and shMIMIC microRNA control particles with TurboRFP

Cat #	Item description	Lot number_Titer*	Volume	Qty
S07-003000-01	hCMV-TurboRFP-rGAPD		25 µL	2
S08-003000-01	mCMV-TurboRFP-rGAPD	V14090901_5.05 × 10 <sup>8</sup> TU/mL	25 µL	2
S09-003000-01	hEF1α-TurboRFP-rGAPD		25 µL	2
S10-003000-01	mEF1α-TurboRFP-rGAPD	Pending production	25 µL	2
S12-003000-01	UBC-TurboRFP-rGAPD		25 µL	2
S13-003000-01	CAG-TurboRFP-rGAPD		25 µL	2
S11-003000-01	PGK-TurboRFP-rGAPD		25 µL	2

#### L. SMARTvector rat GAPD shRNA and shMIMIC microRNA control particles without fluorescent reporter

Cat #	Item description	Lot number_Titer*	Volume	Qty
VSR7064	hCMV-No Reporter-rGAPD		25 µL	2
VSR7065	mCMV-No Reporter-rGAPD		25 µL	2
VSR7066	hEF1α-No Reporter-rGAPD	Pending production	25 µL	2
VSR7067	mEF1α-No Reporter-rGAPD		25 µL	2
VSR7070	PGK-No Reporter-rGAPD		25 µL	2

#### If you have any questions contact

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#### M. Additional SMARTvector control particles with human CMV and TurboGFP

Cat #	Item description	Lot number_Titer*	Volume	Qty
S-004000-01	hCMV-tGFP (empty vector)	V15041706_4.66 × 10 <sup>10</sup> TU/mL V16020406_2.96 × 10 <sup>9</sup> TU/mL	25 µL	2
S-006000-01	hCMV-TurboGFP-fluc	V14072503_4.10 × 10 <sup>8</sup> TU/mL V16120102_5.88 × 10 <sup>8</sup> TU/mL	25 µL	2
S-007000-01	hCMV-TurboGFP-hPPIB	V12051101_6.43 × 10 <sup>8</sup> TU/mL	25 µL	2
S-008000-01	hCMV-TurboGFP-mPPIB	V12051101_3.96 × 10 <sup>8</sup> TU/mL	25 µL	2
S-009000-01	hCMV-TurboGFP-rPPIB	V12051101_6.16 × 10 <sup>8</sup> TU/mL	25 µL	2

#### Shipping and storage

Store at –80° C. SMARTvector Lentiviral shRNA and shMIMIC microRNA Controls are shipped on dry ice and should be stored in a –80° C freezer upon arrival. SMARTvector lentiviral particles will remain stable for at least one year without any appreciable loss in titer. When ready to use, thaw the viral particles on ice. The viral titers indicated above for each sample are determined from an aliquot that has been through one freeze-thaw. The vials in this package have not been thawed; therefore, the indicated titers are accurate for the first thaw. However, every subsequent freeze-thaw may result in a decrease in titer of two- to five-fold. Any viral particles remaining after the first thaw can be aliquoted into smaller volumes and stored at –80° C.

#### Classification of SMARTvector lentiviral shRNA controls

SMARTvector viral particles are not capable of causing permanent disability, life-threatening or fatal disease in otherwise healthy humans or animals, and therefore are not classified as infectious substances under IATA and DOT guidelines.

#### Description of goods

Replication-incompetent, viral-like particles of human, mouse and/or rat origin; intended use is for research purposes only.

Proper packaging and labeling of shipments will be utilized to ensure safe and timely transit of SMARTvector products.