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## Dharmacon™ Reagents

**SMARTvector™ 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 non-targeting (NTC) negative controls expressing TurboGFP**

Cat #	Item description	Lot number_Titer*	Volume	Qty
S-005000-01	hCMV-TurboGFP-NTC	V22091401_1.85 × 10 <sup>8</sup> TU/mL V23120806_5.22 × 10 <sup>8</sup> TU/mL	25 µL	2
S01-005000-01	mCMV-TurboGFP-NTC	V22070804_1.23 × 10 <sup>8</sup> TU/mL V23090104_5.93 × 10 <sup>8</sup> TU/mL V24030801_2.76 × 10 <sup>8</sup> TU/mL	25 µL	2
S02-005000-01	hEF1α-TurboGFP-NTC	V22071404_1.18 × 10 <sup>8</sup> TU/mL V23062301_1.24 × 10 <sup>8</sup> TU/mL V23102001_1.64 × 10 <sup>8</sup> TU/mL V24011603_2.17 × 10 <sup>8</sup> TU/mL	25 µL	2
S03-005000-01	mEF1α-TurboGFP-NTC	V22042902_2.45 × 10 <sup>8</sup> TU/mL V23072706_2.62 × 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	V22120904_4.43 × 10 <sup>8</sup> TU/mL V23090802_3.49 × 10 <sup>8</sup> TU/mL	25 µL	2
S08-005000-01	mCMV-TurboRFP-NTC	V22021706_1.38 × 10 <sup>8</sup> TU/mL V23060206_1.25 × 10 <sup>8</sup> TU/mL	25 µL	2
S09-005000-01	hEF1α-TurboRFP-NTC	V23031706_2.49 × 10 <sup>8</sup> TU/mL V23080406_1.36 × 10 <sup>8</sup> TU/mL	25 µL	2
S10-005000-01	mEF1α-TurboRFP-NTC	V21052002_3.45 × 10 <sup>8</sup> TU/mL V23072706_4.43 × 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	V21102905_1.33 × 10 <sup>8</sup> TU/mL V23050504_7.26 × 10 <sup>8</sup> TU/mL V23090101_3.26 × 10 <sup>8</sup> TU/mL	25 µL	2
VSC7079	mCMV-No Reporter-NTC	V22120106_1.80 × 10 <sup>8</sup> TU/mL	25 µL	2
VSC7080	hEF1α-No Reporter-NTC	V21100703_1.76 × 10 <sup>8</sup> TU/mL	25 µL	2
VSC7081	mEF1α-No Reporter-NTC	V19012404_1.01 × 10 <sup>8</sup> TU/mL	25 µL	2
VSC7084	PGK-No Reporter-NTC	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	V21100106_8.21 × 10 <sup>8</sup> TU/mL	25 µL	2
S01-001000-01	mCMV-TurboGFP-hGAPD	V18051004_2.19 × 10 <sup>8</sup> TU/mL	25 µL	2
S02-001000-01	hEF1α-TurboGFP-hGAPD		25 µL	2
S03-001000-01	mEF1α-TurboGFP-hGAPD		25 µL	2

**E. Additional SMARTvector control particles with human CMV and TurboGFP**

Cat #	Item description	Lot number_Titer*	Volume	Qty
S-004000-01	hCMV-tGFP (empty vector)	V22060204_1.23 × 10 <sup>8</sup> TU/mL	25 µL	2
S-006000-01	hCMV-TurboGFP-fluc	V22041407_1.93 × 10 <sup>8</sup> TU/mL	25 µL	2
S-007000-01	hCMV-TurboGFP-hPPIB	V22060204_1.23 × 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  $-80^{\circ}\text{C}$ . SMARTvector Lentiviral shRNA and shMIMIC microRNA Controls are shipped on dry ice and should be stored in a  $-80^{\circ}\text{C}$  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  $-80^{\circ}\text{C}$ .

## **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.

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