

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

## Requirements

25  $\mu$ L  $\times$  2 (50  $\mu$ L total) of  $1 \times 10^7$  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 inducible lentiviral shRNA and shMIMIC microRNA non-targeting controls

Cat #	Item description	Item #	Lot number_Titer*	Volume	Qty
VSC6572	Non-targeting Control hEF1 $\alpha$ —TurboGFP	VSC6586	V17020208_1.19 $\times 10^8$ TU/mL V17081705_2.49 $\times 10^8$ TU/mL V18010405_1.01 $\times 10^8$ TU/mL	25 $\mu$ L	2
VSC6570	Non-targeting Control mCMV—TurboGFP	VSC6584	V17020208_2.45 $\times 10^8$ TU/mL V17081705_2.36 $\times 10^8$ TU/mL V17120701_1.17 $\times 10^8$ TU/mL V18021606_1.75 $\times 10^8$ TU/mL	25 $\mu$ L	2
VSC6574	Non-targeting Control mEF1 $\alpha$ —TurboGFP	VSC6588	V16090107_1.02 $\times 10^8$ TU/mL V17120101_4.71 $\times 10^7$ TU/mL	25 $\mu$ L	2
VSC6580	Non-targeting Control PGK—TurboGFP	VSC6594	V16092208_4.55 $\times 10^8$ TU/mL V17081002_5.29 $\times 10^8$ TU/mL	25 $\mu$ L	2
VSC6573	Non-targeting Control hEF1 $\alpha$ —TurboRFP	VSC6587	V16031701_7.29 $\times 10^7$ TU/mL V17011206_9.41 $\times 10^7$ TU/mL	25 $\mu$ L	2
VSC6571	Non-targeting Control mCMV—TurboRFP	VSC6585	V16090805_1.19 $\times 10^8$ TU/mL V17081705_5.92 $\times 10^7$ TU/mL	25 $\mu$ L	2
VSC6575	Non-targeting Control mEF1 $\alpha$ —TurboRFP	VSC6589	V16060304_1.87 $\times 10^8$ TU/mL	25 $\mu$ L	2
VSC6581	Non-targeting Control PGK—TurboRFP	VSC6595	V16020503_3.20 $\times 10^8$ TU/mL V17081106_5.19 $\times 10^8$ TU/mL V17120701_5.80 $\times 10^7$ TU/mL	25 $\mu$ L	2

### B. SMARTvector Inducible lentiviral positive control shRNA targeting human GAPDH

Cat #	Item description	Item #	Lot number_Titer*	Volume	Qty
VSH6544	Human GAPDH hEF1 $\alpha$ —TurboGFP	VSH6558	V16060304_1.92 $\times 10^8$ TU/mL	25 $\mu$ L	2
VSH6542	Human GAPDH mCMV—TurboGFP	VSH6556	V16031005_1.94 $\times 10^8$ TU/mL V17011204_3.89 $\times 10^8$ TU/mL V18032305_1.20 $\times 10^7$ TU/mL	25 $\mu$ L	2
VSH6546	Human GAPDH mEF1 $\alpha$ —TurboGFP	VSH6560	V16071404_1.37 $\times 10^8$ TU/mL	25 $\mu$ L	2
VSH6552	Human GAPDH PGK—TurboGFP	VSH6566	V16012103_2.72 $\times 10^8$ TU/mL V18032305_4.11 $\times 10^7$ TU/mL	25 $\mu$ L	2
VSH6545	Human GAPDH hEF1 $\alpha$ —TurboRFP	VSH6559	V16071405_1.30 $\times 10^8$ TU/mL V17011206_1.18 $\times 10^8$ TU/mL	25 $\mu$ L	2
VSH6543	Human GAPDH mCMV—TurboRFP	VSH6557	V16060206_2.46 $\times 10^8$ TU/mL	25 $\mu$ L	2
VSH6547	Human GAPDH mEF1 $\alpha$ —TurboRFP	VSH6561	V16071404_3.04 $\times 10^8$ TU/mL	25 $\mu$ L	2
VSH6553	Human GAPDH PGK—TurboRFP	VSH6567	V16071404_1.16 $\times 10^8$ TU/mL	25 $\mu$ L	2

### C. SMARTvector inducible lentiviral positive control shRNA targeting human PPIB

Cat #	Item description	Item #	Lot number_Titer*	Volume	Qty
VSH6532	Human PPIB hEF1 $\alpha$ —TurboGFP			25 $\mu$ L	2
VSH6530	Human PPIB mCMV—TurboGFP			25 $\mu$ L	2
VSH6534	Human PPIB mEF1 $\alpha$ —TurboGFP			25 $\mu$ L	2
VSH6548	Human PPIB PGK—TurboGFP		Pending production	25 $\mu$ L	2
VSH6533	Human PPIB hEF1 $\alpha$ —TurboRFP			25 $\mu$ L	2
VSH6531	Human PPIB mCMV—TurboRFP			25 $\mu$ L	2
VSH6535	Human PPIB mEF1 $\alpha$ —TurboRFP			25 $\mu$ L	2
VSH6549	Human GAPDH PGK—TurboRFP			25 $\mu$ L	2

#### D. SMARTvector inducible lentiviral positive control shRNA targeting mouse Gapdh

Cat #	Item description	Item #	Lot number_Titer*	Volume	Qty
VSM6392	Mouse Gapdh hEF1α—TurboGFP	VSM6472	V16111707_1.47 × 10 <sup>8</sup> TU/mL	25 µL	2
VSM6390	Mouse Gapdh mCMV—TurboGFP	VSM6450	V16120105_4.88 × 10 <sup>7</sup> TU/mL	25 µL	2
VSM6394	Mouse Gapdh mEF1α—TurboGFP	VSM6474	V16010804_1.90 × 10 <sup>8</sup> TU/mL	25 µL	2
VSM6416	Mouse Gapdh PGK—TurboGFP	VSM6476	V15120404_3.86 × 10 <sup>8</sup> TU/mL	25 µL	2
VSM6393	Mouse Gapdh hEF1α—TurboRFP	VSM6473	V16111805_3.09 × 10 <sup>7</sup> TU/mL	25 µL	2
VSM6391	Mouse Gapdh mCMV—TurboRFP	VSM6451	V16111706_4.20 × 10 <sup>7</sup> TU/mL	25 µL	2
VSM6395	Mouse Gapdh mEF1α—TurboRFP	VSM6475	V16120105_2.33 × 10 <sup>7</sup> TU/mL	25 µL	2
VSM6417	Mouse Gapdh PGK—TurboRFP	VSM6477	V16120105_1.08 × 10 <sup>8</sup> TU/mL	25 µL	2

#### E. SMARTvector inducible lentiviral positive control shRNA targeting mouse Ppib

Cat #	Item description	Item #	Lot number_Titer*	Volume	Qty
VSM6564	Mouse Ppib hEF1α—TurboGFP			25 µL	2
VSM6562	Mouse Ppib mCMV—TurboGFP			25 µL	2
VSM6576	Mouse Ppib mEF1α—TurboGFP			25 µL	2
VSM6578	Mouse Ppib PGK—TurboGFP		Pending production	25 µL	2
VSM6565	Mouse Ppib hEF1α—TurboRFP			25 µL	2
VSM6563	Mouse Ppib mCMV—TurboRFP			25 µL	2
VSM6577	Mouse Ppib mEF1α—TurboRFP			25 µL	2
VSM6579	Mouse Ppib PGK—TurboRFP			25 µL	2

#### F. SMARTvector inducible lentiviral positive control shRNA targeting rat Gapdh

Cat #	Item description	Item #	Lot number_Titer*	Volume	Qty
VSR6422	Rat Gapdh hEF1α—TurboGFP	VSR6502	V13080803_1.71 × 10 <sup>8</sup> TU/mL	25 µL	2
VSR6420	Rat Gapdh mCMV—TurboGFP	VSR6500	V13080803_4.10 × 10 <sup>8</sup> TU/mL	25 µL	2
VSR6444	Rat Gapdh mEF1α—TurboGFP	VSR6504	V13080803_1.14 × 10 <sup>8</sup> TU/mL	25 µL	2
VSR6446	Rat Gapdh PGK—TurboGFP	VSR6506	V13080803_8.53 × 10 <sup>8</sup> TU/mL	25 µL	2
VSR6423	Rat Gapdh hEF1α—TurboRFP	VSR6503	V13082901_4.95 × 10 <sup>7</sup> TU/mL	25 µL	2
VSR6421	Rat Gapdh mCMV—TurboRFP	VSR6501	V13080902_1.25 × 10 <sup>8</sup> TU/mL	25 µL	2
VSR6445	Rat Gapdh mEF1α—TurboRFP	VSR6505	V13080902_7.35 × 10 <sup>7</sup> TU/mL	25 µL	2
VSR6447	Rat Gapdh PGK—TurboRFP	VSR6507	V13080902_1.58 × 10 <sup>8</sup> TU/mL	25 µL	2

#### If you have any questions

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#### G. SMARTvector inducible lentiviral positive control shRNA targeting rat Ppib

Cat #	Item description	Item #	Lot number_Titer*	Volume	Qty
VSR6727	Rat Ppib hEF1α—TurboGFP			25 µL	2
VSR6592	Rat Ppib mCMV—TurboGFP			25 µL	2
VSR6729	Rat Ppib mEF1α—TurboGFP			25 µL	2
VSR6731	Rat Ppib PGK—TurboGFP		Pending production	25 µL	2
VSR6728	Rat Ppib hEF1α—TurboRFP			25 µL	2
VSR6593	Rat Ppib mCMV—TurboRFP			25 µL	2
VSR6730	Rat Ppib mEF1α—TurboRFP			25 µL	2
VSR6732	Rat Ppib PGK—TurboRFP			25 µL	2

#### Shipping and storage

Store at –80° C. SMARTvector Inducible Lentiviral 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.