

Dharmacon™ SMARTvector™ Lentiviral shRNA and shMIMIC microRNA Controls

Requirements:

25 µL × 2 (50 µL total) of 1×10^8 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 | V14061903_1.43 × 10 ⁹ TU/mL V15101507_3.63 × 10 ⁸ TU/mL | 25 µL | 2 |
| S01-005000-01 | mCMV-TurboGFP-NTC | V15010806_2.82 × 10 ⁸ TU/mL V15041705_3.36 × 10 ⁸ TU/mL V15091103_5.11 × 10 ⁸ TU/mL V15120405_8.69 × 10 ⁸ TU/mL V16071403_2.71 × 10 ⁸ TU/mL | 25 µL | 2 |
| S02-005000-01 | hEF1]-TurboGFP-NTC | V14100205_1.11 × 10 ⁹ TU/mL V15072302_1.05 × 10 ⁹ TU/mL V16040105_3.35 × 10 ⁸ TU/mL | 25 µL | 2 |
| S03-005000-01 | mEF1]-TurboGFP-NTC | V14032101_1.08 × 10 ⁹ TU/mL V15041705_1.96 × 10 ⁹ TU/mL V16020406_1.29 × 10 ⁸ TU/mL | 25 µL | 2 |
| S05-005000-01 | CAG-TurboGFP-NTC | V15012901_1.46 × 10 ⁸ TU/mL V16060901_9.04 × 10 ⁸ TU/mL V16081203_9.19 × 10 ⁸ TU/mL | 25 µL | 2 |
| S06-005000-01 | PGK-TurboGFP-NTC | V14052305_8.50 × 10 ⁸ TU/mL V16060901_9.04 × 10 ⁸ TU/m | 25 µL | 2 |
| S04-005000-01 | UBC-TurboGFP-NTC | V13122002_2.75 × 10 ⁸ TU/mL V16111007_1.84 × 10 ⁸ 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 | V14100205_9.51 × 10 ⁸ TU/mL V16071405_3.24 × 10 ⁸ TU/mL V16120205_7.13 × 10 ⁸ TU/mL | 25 µL | 2 |
| S08-005000-01 | mCMV-TurboRFP-NTC | V15012901_5.74 × 10 ⁸ TU/mL V15062602_1.11 × 10 ⁸ TU/mL V16071404_9.10 × 10 ⁸ TU/mL | 25 µL | 2 |
| S09-005000-01 | hEF1]-TurboRFP-NTC | V14081402_6.94 × 10 ⁸ TU/mL V15080702_9.12 × 10 ⁸ TU/mL V15091701_7.55 × 10 ⁸ TU/mL V16031001_3.49 × 10 ⁸ TU/mL V16120806_2.92 × 10 ⁸ TU/mL | 25 µL | 2 |
| S10-005000-01 | mEF1]-TurboRFP-NTC | V14082803_4.18 × 10 ⁹ TU/mL V15070306_6.02 × 10 ⁸ TU/mL V16031001_3.51 × 10 ⁸ TU/mL | 25 µL | 2 |
| S12-005000-01 | CAG-TurboRFP-NTC | V15061102_2.74 × 10 ⁸ TU/mL V15073002_2.00 × 10 ⁸ TU/mL V16111707_1.80 × 10 ⁸ TU/mL | 25 µL | 2 |
| S13-005000-01 | PGK-TurboRFP-NTC | V14081402_7.51 × 10 ⁸ TU/mL V16031001_1.00 × 10 ⁸ TU/mL | 25 µL | 2 |
| S11-005000-01 | UBC-TurboRFP-NTC | V14041801_5.58 × 10 ⁸ TU/mL V16111007_1.38 × 10 ⁸ 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 | V15030501_2.29 × 10 ⁸ TU/mL V16060303_1.36 × 10 ⁹ TU/mL | 25 µL | 2 |
| VSC7079 | mCMV-No Reporter-NTC | V15030501_2.53 × 10 ⁸ TU/mL V17010606_1.54 × 10 ⁹ TU/mL | 25 µL | 2 |
| VSC7080 | hEF1]-No Reporter-NTC | V15030502_1.03 × 10 ⁸ TU/mL V17010606_9.31 × 10 ⁸ TU/mL | 25 µL | 2 |
| VSC7081 | mEF1]-No Reporter-NTC | | 25 µL | 2 |
| VSC7082 | UBC-No Reporter-NTC | | 25 µL | 2 |
| VSC7083 | CAG-No Reporter-NTC | | 25 µL | 2 |
| VSC7084 | PGK-No Reporter-NTC | V15030503_5.39 × 10 ⁸ TU/mL V17011205_8.15 × 10 ⁸ TU/mL | 25 µL | 2 |

Pending Production

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 | V15031302_2.54 × 10 ⁸ TU/mL V16031704_5.02 × 10 ⁸ TU/mL V16060304_8.47 × 10 ⁸ TU/mL | 25 µL | 2 |
| S01-001000-01 | mCMV-TurboGFP-hGAPD | V15012303_2.20 × 10 ⁸ TU/mL V15050801_2.09 × 10 ⁸ TU/mL V16071404_5.79 × 10 ⁸ TU/mL | 25 µL | 2 |
| S02-001000-01 | hEF1]-TurboGFP-hGAPD | V14071803_1.05 × 10 ⁹ TU/mL V16042101_1.67 × 10 ⁸ TU/mL | 25 µL | 2 |
| S03-001000-01 | mEF1]-TurboGFP-hGAPD | V14071802_1.07 × 10 ⁹ TU/mL V15071703_1.11 × 10 ⁹ TU/mL V16071404_1.45 × 10 ⁸ TU/mL | 25 µL | 2 |
| S05-001000-01 | CAG-TurboGFP-hGAPD | V15061202_2.30 × 10 ⁸ TU/mL | 25 µL | 2 |
| S06-001000-01 | PGK-TurboGFP-hGAPD | V13091303_7.61 × 10 ⁸ TU/mL | 25 µL | 2 |
| S04-001000-01 | UBC-TurboGFP-hGAPD | V13091303_3 × 10 ⁸ 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 ⁹ TU/mL V16071405_2.72 × 10 ⁸ TU/mL | 25 µL | 2 |
| S08-001000-01 | mCMV-TurboRFP-hGAPD | V14071803_1.37 × 10 ⁹ TU/mL V17010603_3.04 × 10 ⁸ TU/mL | 25 µL | 2 |
| S09-001000-01 | hEF1]-TurboRFP-hGAPD | V14071802_1.22 × 10 ⁹ TU/mL V16110402_2.05 × 10 ⁸ TU/mL | 25 µL | 2 |
| S10-001000-01 | mEF1]-TurboRFP-hGAPD | V14071802_1.41 × 10 ⁹ TU/mL V16071403_2.04 × 10 ⁸ TU/mL | 25 µL | 2 |
| S12-001000-01 | CAG-TurboRFP-hGAPD | V15061102_3.83 × 10 ⁸ TU/mL V15073002_2.26 × 10 ⁸ TU/mL | 25 µL | 2 |
| S13-001000-01 | PGK-TurboRFP-hGAPD | V13091303_2.67 × 10 ⁸ TU/mL | 25 µL | 2 |
| S11-001000-01 | UBC-TurboRFP-hGAPD | V13091304_9.27 × 10 ⁸ 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 ⁸ TU/mL V16120205_7.22 × 10 ⁸ TU/mL | | 2 |
| VSH7037 | mCMV-No Reporter-hGAPD | V15030502_4.28 × 10 ⁸ TU/mL V17010606_1.83 × 10 ⁹ TU/mL | | 2 |
| VSH7038 | hEF1a-No Reporter-hGAPD | V15030502_2.53 × 10 ⁸ TU/mL V17011205_2.83 × 10 ⁸ TU/mL | | 2 |
| VSH7039 | mEF1a-No Reporter-hGAPD | | | 2 |
| VSH7040 | UBC-No Reporter-hGAPD | | | 2 |
| VSH7041 | CAG-No Reporter-hGAPD | | | 2 |
| VSH7042 | PGK-No Reporter-hGAPD | V15030503_2.87 × 10 ⁸ TU/mL V17011205_9.94 × 10 ⁸ TU/mL | | 2 |

Pending Production

G. SMARTvector 2.0 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 ⁹ TU/mL V15101508_9.14 × 10 ⁸ TU/mL | 25 µL | 2 |
| S01-002000-01 | mCMV-TurboGFP-mGAPD | V14071803_1.77 × 10 ⁹ TU/mL V15101508_6.33 × 10 ⁸ TU/mL | 25 µL | 2 |
| S02-002000-01 | hEF1]-TurboGFP-mGAPD | V14071802_1.14 × 10 ⁹ TU/mL V16110402_1.71 × 10 ⁸ TU/mL | 25 µL | 2 |
| S03-002000-01 | mEF1]-TurboGFP-mGAPD | V14071705_1.51 × 10 ⁹ TU/mL V16111007_1.51 × 10 ⁸ TU/mL | 25 µL | 2 |
| S05-002000-01 | CAG-TurboGFP-mGAPD | V13091304_1.89 × 10 ⁸ TU/mL V16100608_1.17 × 10 ⁹ TU/mL | 25 µL | 2 |
| S06-002000-01 | PGK-TurboGFP-mGAPD | V13062703_6.41 × 10 ⁸ TU/mL | 25 µL | 2 |
| S04-002000-01 | UBC-TurboGFP-mGAPD | V13091304_3.36 × 10 ⁸ TU/mL | 25 µL | 2 |

H. SMARTvector Mouse GAPD shRNA and shMIMIC microRNA Control Particles with TurboFRP

| Cat # | Item Description | Lot Number_Titer* | Volume | Qty |
|---------------|-----------------------|--|--------|-----|
| S07-002000-01 | hCMV-TurboRFP-mGAPD | V14071705_1.43 × 10 ⁹ TU/mL V16110402_3.97 × 10 ⁸ TU/mL | 25 µL | 2 |
| S08-002000-01 | mCMV-TurboRFP-mGAPD | V14071803_1.41 × 10 ⁹ TU/mL V16110402_1.09 × 10 ⁸ TU/mL | 25 µL | 2 |
| S09-002000-01 | hEF1]-TurboRFP-mGAPD | V14071802_1.41 × 10 ⁹ TU/mL V16111007_1.06 × 10 ⁸ TU/mL | 25 µL | 2 |
| S10-002000-01 | mEF1]-TurboRFP-mGAPD | V14071705_1.41 × 10 ⁹ TU/mL V16111007_1.18 × 10 ⁸ TU/mL | 25 µL | 2 |
| S12-002000-01 | CAG-TurboRFP-mGAPD | V13091304_3.46 × 10 ⁸ TU/mL | 25 µL | 2 |
| S13-002000-01 | PGK-TurboRFP-mGAPD | V13092602_7.77 × 10 ⁸ TU/mL | 25 µL | 2 |
| S11-002000-01 | PGK-No Reporter-hGAPD | V13091304_1.04 × 10 ⁸ 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 | | 25 µL | 2 |
| VSM7052 | hEF1a-No Reporter-mGAPD | | 25 µL | 2 |
| VSM7053 | mEF1a-No Reporter-mGAPD | | 25 µL | 2 |
| VSM7054 | UBC-No Reporter-mGAPD | | 25 µL | 2 |
| VSM7055 | CAG-No Reporter-mGAPD | | 25 µL | 2 |
| VSM7056 | PGK-No Reporter-mGAPD | | 25 µL | 2 |

Pending Production

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 | hEF1]-TurboGFP-rGAPD | | 25 µL | 2 |
| S03-003000-01 | mEF1]-TurboGFP-rGAPD | | 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 |

Pending Production

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 ⁸ TU/mL | 25 µL | 2 |
| S09-003000-01 | hEF1a-TurboRFP-rGAPD | | 25 µL | 2 |
| S10-003000-01 | mEF1a-TurboRFP-rGAPD | | 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 |

Pending Production

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 | hEF1a-No Reporter-rGAPD | | 25 µL | 2 |
| VSR7067 | mEF1a-No Reporter-rGAPD | | 25 µL | 2 |
| VSR7068 | UBC-No Reporter-rGAPD | | 25 µL | 2 |
| VSR7069 | CAG-No Reporter-rGAPD | | 25 µL | 2 |
| VSR7070 | PGK-No Reporter-rGAPD | | 25 µL | 2 |

Pending Production

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) | V13082903_8.96 × 10 ⁸ TU/mL V15041706_4.66 × 10 ¹⁰ TU/mL V16020406_2.96 × 10 ⁹ TU/mL | 25 µL | 2 |
| S-006000-01 | hCMV-TurboGFP-fluc | V14072503_4.10 × 10 ⁸ TU/mL V16120102_5.88 × 10 ⁸ TU/mL | 25 µL | 2 |
| S-007000-01 | hCMV-TurboGFP-hPPIB | V12051101_6.43 × 10 ⁸ TU/mL | 25 µL | 2 |
| S-008000-01 | hCMV-TurboGFP-mPPIB | V12051101_3.96 × 10 ⁸ TU/mL | 25 µL | 2 |
| S-009000-01 | hCMV-TurboGFP-rPPIB | V12051101_6.16 × 10 ⁸ 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.

GE, imagination at work and GE monogram are trademarks of General Electric Company. Dharmacon, Inc., a General Electric company doing business as GE Healthcare. All other trademarks are the property of General Electric Company or one of its subsidiaries. ©2017 General Electric Company—All rights reserved. Version published January 2017. GE Healthcare UK Limited, Amersham Place, Little Chalfont, Buckinghamshire, HP7 9NA, UK



Orders can be placed at:
gelifsciences.com/dharmacon

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

V34-0417