|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sample | %EGFP+ | Integrated vector copiesa | | RNA copiesc | | | | Normalized siRNA expression per transduced celld | |
|  |  | TOTALa | Transducedb | si516 | RNU38B (si516 control) | si1005 | RNU38B (si1005 control) | si516 | si1005 |
| In vitro-stimulated vector-transduced peripheral blood mononuclear cellse | | | | | | | | | |
| Mock | 1.2 | 0.0 ± 0.0 | 0.00 | ND | 9.8x103 ± 3.1x102 | ND | 9.7x103 ± 3.1x102 | ND | ND |
| Vector alone | 26.7 | 0.28 ± 0.03 | 1.06 | ND | 1.1x104 ± 2.2x102 | ND | 1.1x104 ± 2.2x102 | ND | ND |
| Mono sh1005 | 21.5 | 0.24 ± 0.02 | 1.13 | ND | 1.3x104 ± 3.5x102 | 1.5x105 ± 1.2x104 | 1.3x104 ± 3.5x102 | ND | 10.4 |
| Mono sh516 | 19.5 | 0.20 ± 0.01 | 1.01 | 2.4x104 ± 9.7x102 | 1.5x104 ± 1.4x103 | ND | 1.5x104 ± 1.4x103 | 1.6 | 0.0 |
| Dual sh1005/sh516 | 19.1 | 0.14 ± 0.01 | 0.74 | 2.4x104 ± 5.7x102 | 1.0x104 ± 1.8x102 | 5.9x104 ± 5.1x103 | 1.0x104 ± 1.8x102 | 3.1 | 7.7 |
| Dual sh516-transduced BLT mouse tissue-derived lymphocytesf | | | | | | | | | |
| Bone marrow | 14.3 | 0.62 ± 0.03 | 4.34 | 5.2x103 ± 9.7x102 | 5.3x104 ± 4.0x103 | 2.8x104 ± 2.6x103 | 5.9x104 ± 1.9x103 | 0.02 | 0.11 |
| Spleen | 16.1 | 0.59 ± 0.01 | 3.66 | 6.2x103 ± 4.3x102 | 3.9x104 ± 4.9x103 | 2.4x104 ± 1.2x103 | 4.8x104 ± 1.1x103 | 0.04 | 0.14 |

**Table S1.** siRNA expression in vector-transduced hematopoietic cells.

aAverage and standard deviation of integrated vector copies were calculated from duplicate samples.

bIntegrated vector copies per transduced cell calculated by [Integrated vector copies: TOTAL] × 100 ÷ [%EGFP+].

cAverage and standard deviation of si516, si1005, and RNU38B copies were calculated from triplicate samples. ND = not detected.

dNormalized siRNA expression per transduced cell calculated by [RNA copies: siRNA] ÷ [RNA copies: RNU38B] ÷ [Integrated vector copies: Transduced].

eIL-2/PHA-stimulated PBMCs were transduced with lentiviral vectors at MOI 0.6-1.0.

fLymphocytes were isolated from tissues derived from a BLT mouse transplanted with FL-CD34+ cells vector-transduced with 69.4% efficiency.