

Gene Name		Probes (10 µM)	Primers (90 µM)
MLV Env		EcoP 5'-CAGACCAACAGCCACT-3'	EcoF 5'-GGCCAAACCCCGTTCTG-3' EcoR 5'-ACTTAACAGTTTGGGCTTGGA-3'
Synaptophysin		Roche Universal ProbeLibrary Set, Human #72	F 5'-AACAAAGGGCCAATGAT-3' R 5'-TAGCCACATGAAAGCGAACA-3'
Vif	EcoHIV/NL4-3	NLVFQP 5'-AGTAGTAATACAAGATAATAGTGA-3'	NLVFQ5 5'-CGCGCACGGCAAGAG-3' NLVFQ3 5'-CTTTGCTTTTCTTCTTGGCACTACT-3'
	EcoHIV/NDK	QVFP 5'-AGTAGTAATACAAGACAATAGTG-3'	QVF52 5'-AAGAGGCGAGGGGCAGCGA-3' QVF3 5'-TCTTTACTTTTCTTCTTGGTACTACCTTTATG-3'
Tat	EcoHIV/NL4-3	NLTatP 5'-AAAGCCTTAGGCATCTC-3'	NLTatF 5'-CCTAAACTGCTTGTACCAATTGC-3' NLTatR2 5'-GTCGGGTCCCCTCGGGATTGGGAG-3'
	EcoHIV/NDK	NDTatP 5'-AAAGGCTTAGGCATCTC-3'	NDTatF 5'-CCTAGGACTGCTTGTAAATAAGTGT-3' NDTatR2 5'-GTCGGGTCCCCTCGGGACTGGGAG-3'
Mouse GAPDH		20x mix (ABI 4352932 E)	

Supplementary Table S1. Gene sequences of probes and primers for QPCR

	129x1/SV		C57BL/6	
Microglia size (μm)	Uninfected	Infected	Uninfected	Infected
Average	35.373	144.571	28.8	163.357
STD error	6.282	23.409	5.304	21.289
<i>t</i> -test				
129x1/SV Uninfected vs.		0.000000213	0.159374	0.000000000103
129x1/SV Infected vs.			0.000000215	0.299825
C57BL/6 Unintected vs.				0.000000000141

### Supplementary Table S2. (for Figure 4)

Microglia cell size measurement of EcoHIV/NDK-EGFP-infected cell percentage to compare infectivity of EcoHIV/NDK-EGFP in difference mice strains, C57BL/6 and 129x/SV mice in brain glial cell culture.