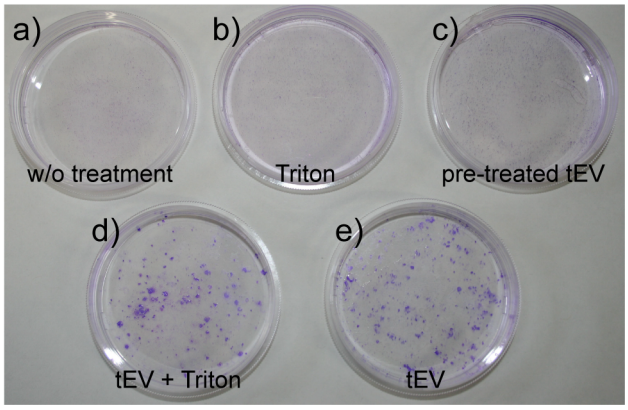
Supplementary Table S1. Primer sequences for qRT-PCR.

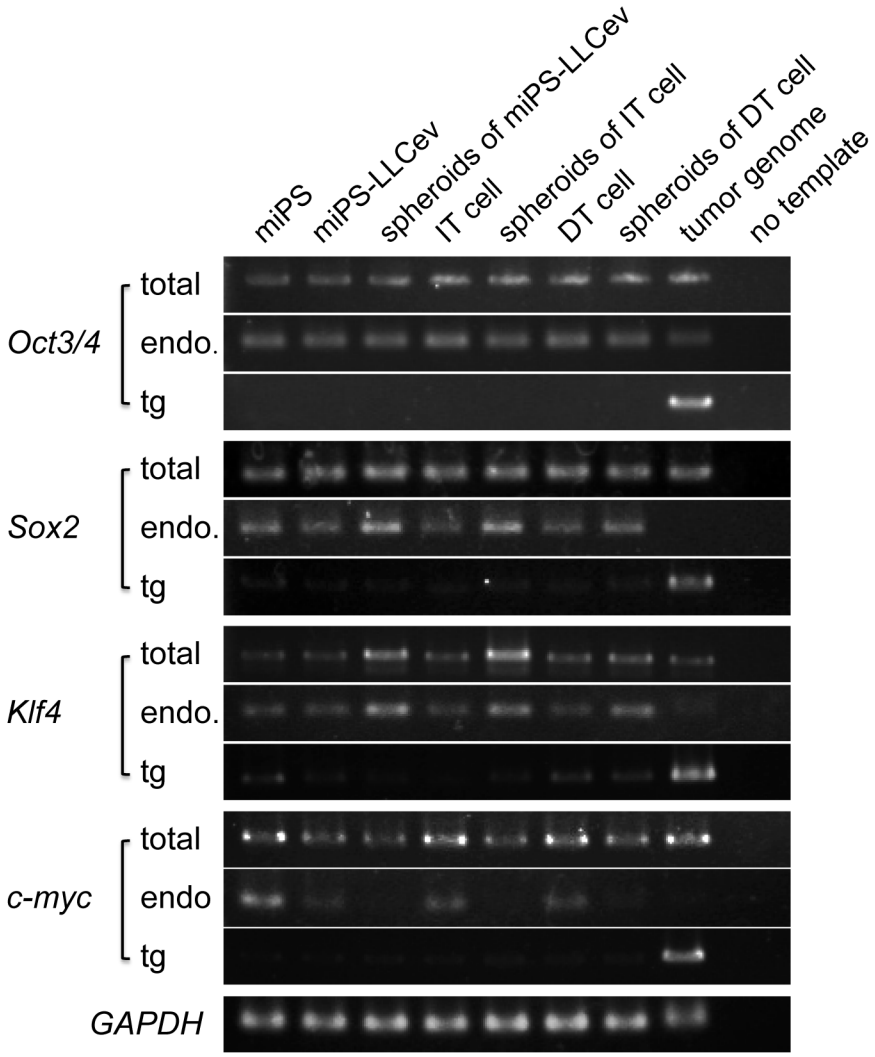
No.	Symbol	Accession	Primers	Applications
1	Oct3/4	NM_013633.2	CTG AGG GCC AGG CAG GAG CAC GAG	Total *Oct3/4*
			CTG TAG GGA GGG CTT CGG GCA CTT	
2	Oct3/4	NM_013633.2	TCT TTC CAC CAG GCC CCC GGC TC	Endogenous *Oct3/4*
			TGC GGG CGG ACA TGG GGA GAT CC	
3	Sox2	NM_011443.3	GGT TAC CTC TTC CTC CCA CTC CAG	Total *Sox2*
			TCA CAT GTG CGA CAG GGG CAG	
4	Sox2	NM_011443.3	TAG AGC TAG ACT CCG GGC GAT GA	Endogenous *Sox2*
			TTG CCT TAA ACA AGA CCA CGA AA	
5	Klf4	NM_010637.3	CAC CAT GGA CCC GGG CGT GGC TGC CAG AAA	Total *Klf4*
			TTA GGC TGT TCT TTT CCG GGG CCA CGA	
6	Klf4*	NM_010637.3	GCG AAC TCA CAC AGG CGA GAA ACC	Endogenous *Klf4*
			TCG CTT CCT CTT CCT CCG ACA CA	
7	c-Myc	NM_010849.4	CAG AGG AGG AAC GAG CTG AAG CGC	Total *c-Myc*
			TTA TGC ACC AGA GTT TCG AAG CTG TTC G	
8	c-Myc	NM_010849.4	TGA CCT AAC TCG AGG AGG AGC TGG AAT C	Endogenous *c-Myc*
			AAG TTT GAG GCA GTT AAA ATT ATG GCT GAA GC	
9	Gapdh*	NM_008084.2	AAC GGC ACA GTC AAG GCC GA	*Gapdh*
			ACC CTT TTG GCT CCA CCC TT	
10	Oct3/4		TTG GGC TAG AGA AGG ATG TGG TTC	*Oct3/4* transgene
			TTA TCG TCG ACC ACT GTG CTG CTG	
11	Sox2		GGT TAC CTC TTC CTC CCA CTC CAG	*Sox2* transgene
			TTA TCG TCG ACC ACT GTG CTG CTG	
12	Klf4		GCG AAC TCA CAC AGG CGA GAA ACC	*Klf4* transgene
			TTA TCG TCG ACC ACT GTG CTG CTG	
13	c-Myc		CAG AGG AGG AAC GAG CTG AAG CGC	*c-Myc* transgene
			TTA TCG TCG ACC ACT GTG CTG CTG	

* These two primers were designed in this study; remains are followed Yamanaka's description [24].

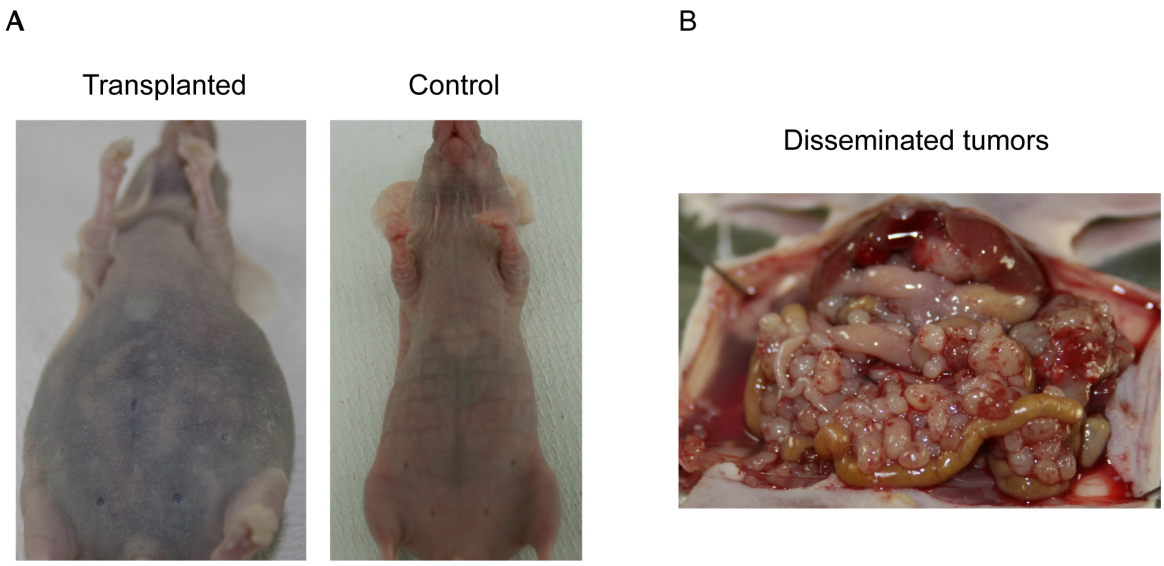


Supplementary Figure S1. Colony formation by using detergent pre-treated tEVs.

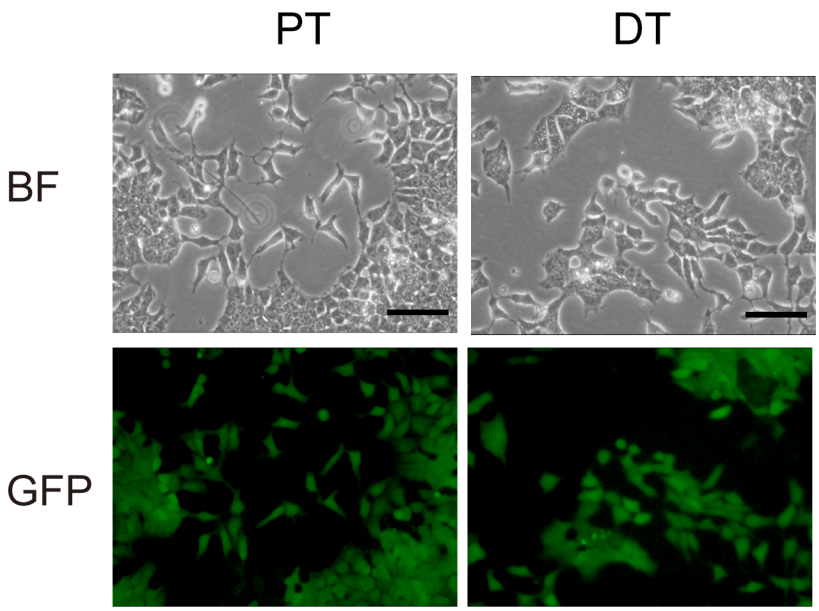
LLC derived tEVs (0.05 μg/μL) was incubated with 0.5% Triton X-100 for 5 h in 4˚C. Then, we treated cells with detergent pre-treated tEVs (c), that amount was corresponding to untreated tEVs (100ng/mL) (e). As controls, cells were treated with untreated tEVs in the presence of 0.001% Triton X-100 (d) or 0.001% Triton X-100 (b). The detergent pre-treated tEVs are failed to induce the colony growth.



Supplementary Figure S2. Semi-quantitative reverse-transcription PCR analysis of the four transcription factors in indicated samples. The PCR products were the coding regions (Total), endogenous transcripts only (Endo.), and transgene transcripts only (tg). Genome DNA was used as positive control for transgene.



Supplementary Figure S3. Disseminated tumors by injection of miPS-LLCev cells. (A) The disseminated tumors result in abdominal bleeding of mice. (B) The disseminated tumors on mesentery.



Supplementary Figure S4. Cell morphology of miPS-LLCevPT and miPS-LLCevDT cell lines, which were established from primary tumor and disseminated tumor nodules, respectively.