



Cornell University  
College of Veterinary Medicine

Christian Abratte,  
Cornell University  
Biomedical Sciences  
Stem Cell and Transgenics Core  
Vet Tower T9-010  
Ithaca, NY 14853  
607-253-4189  
[Ca258@cornell.edu](mailto:Ca258@cornell.edu)

## **Product Information Sheet – Reprogramming Vectors**

**Description:** Each vial of iPS reprogramming vectors contains a mixture of non-replicative doxycycline inducible lenti-vectors encoding Oct 4, Sox 2, Klf 4, c-Myc, and the reverse tetracycline transactivator: RTTA. Lentiviral particles were created by co-transfecting a plasmid containing the viral backbone and gene of interest along with plasmids containing the packaging and envelope genes into HEK 293T cells. Seventy-two hour viral supernatant was collected, concentrated, and passed through a 0.45 $\mu$ M filter.

**Storage:** Storage at -80°C is suitable.

**Instructions for use:** The titer of each vial is sufficient to infect  $6 \times 10^4$  tail-tip fibroblasts, which after approximately 2 weeks of culture with doxycycline and LIF can yield 50-100+ colonies of transformed cells depending on the background and quality of the starting cells. Add the entire contents of the vial to target cells 24 hours after seeding to a 35mm tissue culture dish and incubate at 37°C, 5% CO<sub>2</sub> for 24 hours.

**Price:** \$35 per vial.

**Additional/Custom Vectors:** Viruses encoding GFP or RFP driven by the hUBC promoter are also available from the iPS Core. Additionally, the core can produce custom lenti-vectors expressing your gene of interest ([contact](#) the core for more details).