

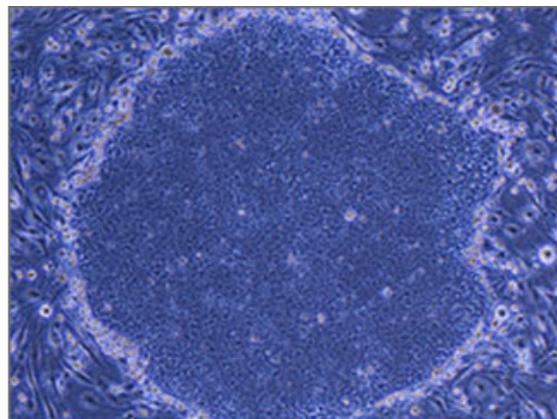
## Induced Pluripotent Stem Cells (iPSCs) — economic tools for cell reprogramming

iPS cells are a type of pluripotent stem cell artificially derived, and often referred to as programmed, from adult somatic cells using the expression of certain genes in culture. Using adult somatic cells, they have been reprogrammed to an embryonic stem cell-like state by being forced to express genes and factors important for maintaining undifferentiated embryonic stem cells.

Lentiviral particles

shRNA clones

cDNA clones



### Lentifect<sup>TM</sup> Ready-to-Transduce Lentiviral Particles — both Standard and purified for all iPSC genes

Lentifect<sup>TM</sup> lentiviral particles are produced from standardized protocols using high-purity plasmid DNA preparations and EndoFectin<sup>TM</sup> Lenti transfection and TiterBoost<sup>TM</sup> reagents ensuring production of the highest-titers possible of Standard or purified particles ever achieved. Ready-for-transduction, lentiviral preps offer a cost-effective choice for busy labs.

### OmicsLink<sup>TM</sup> Expression-Ready ORF cDNA Clones — wide selection of lentiviral vectors and tags

The [OmicsLink<sup>TM</sup> expression-ready clone](#) family is the most extensive and complete source of standard and specialized plasmid constructs anywhere. GeneCopoeia has several genes used in reprogramming available in many vectors with a variety of fusion tags.

**Product ID to view the vector options available for these genes**

Accession	Symbol	Species	Description
Z11898	POU5F1	Human	POU class 5 homeobox 1
BC013923	SOX2	Human	SRY (sex determining region Y)-box 2
NM_002467	MYC	Human	v-myc myelocytomatosis viral oncogene homolog (avian)
NM_002467	MYC	Human	v-myc myelocytomatosis viral oncogene homolog (avian)
NM_004235	KLF4	Human	Kruppel-like factor 4 (gut)
NM_024865	NANOG	Human	Nanog homeobox
NM_024674	LIN28	Human	lin-28 homolog (C. elegans)
NM_013633	Pou5f1	Mouse	Mus musculus POU domain, class 5, transcription factor 1 (Pou5f1), mRNA.
NM_011443	Sox2	Mouse	Mus musculus SRY-box containing gene 2 (Sox2), mRNA.
NM_010849	Myc	Mouse	Mus musculus myelocytomatosis oncogene (Myc), mRNA.
NM_010637	Klf4	Mouse	Mus musculus Kruppel-like factor 4 (gut) (Klf4), mRNA.
NM_028016	Nanog	Mouse	Mus musculus Nanog homeobox (Nanog), mRNA.
NM_145833	Lin28	Mouse	Mus musculus lin-28 homolog (C. elegans) (Lin28), mRNA.

**OmicsLink™ Expression-Ready shRNA Clones — stable and guaranteed knockdown**

For every gene you want to down regulate through RNA interference, GeneCopoeia uses a proprietary algorithm to carefully prepare four [sequence-specific shRNA constructs](#). These constructs are available in lentiviral or non-viral vectors with a choice of eGFP or mCherry reporter gene. GeneCopoeia guarantee that at least one of the four constructs will give you 70% knockdown when tested with qRT-PCR or we will replace it with a new one.

**Product ID to view the vector options available for these genes**

Accession	Symbol	Species	Product Description
NM_002701	POU5F1	Human	shRNA clone sets targeting NM_002701
NM_203289	POU5F1	Human	shRNA clone sets targeting NM_203289
NM_003106	SOX2	Human	shRNA clone sets targeting NM_003106
NM_002467	MYC	Human	shRNA clone sets targeting NM_002467
NM_004235	KLF4	Human	shRNA clone sets targeting NM_004235
NM_024865	NANOG	Human	shRNA clone sets targeting NM_024865
NM_024674	LIN28	Human	shRNA clone sets targeting NM_024674
NM_013633	Pou5f1	Mouse	shRNA clone sets targeting NM_013633
NM_011443	Sox2	Mouse	shRNA clone sets targeting NM_011443
NM_010849	Myc	Mouse	shRNA clone sets targeting NM_010849
NM_010637	Klf4	Mouse	shRNA clone sets targeting NM_010637
NM_028016	Nanog	Mouse	shRNA clone sets targeting NM_028016
NM_145833	Lin28	Mouse	shRNA clone sets targeting NM_145833

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