ABM Inc. Lentiviral Particles

To date, lentiviral vectors have been the most widely used delivery vehicle for iPSC reprogramming due to its high efficiency of both transduction and stable integration. As a world leader in iPSC and stem cell research, ABM Inc. provides the most comprehensive selection of iPSC lentivral vectors with choices of different promoters, including, EF1α, Tet-On, PGK, UbC, CMV.

For stable gene expression in stem cells, EF1α promoter offers highest percentage of cells expressing transgene, follow by PGK and UBC. However, PGK promoter offers higher gene expression level in positive cells. For transient gene expresion, CMV promoter is the choice for higher level transgene expression. With the choice of Tet-On promoter, transgene expression can be regulated with the addition of Tetracycline.

To further simplify the iPSC induction, scientists at ABM have successfully developed a polycistonic iPSC lentivirus which contains all four iPSC transcription factors in both Thomson (OSNL) and Yamanaka (OSKM) Protocol formats. All polycistronic lentiviral vectors are designed with the popular EF1α and TET/On promoter.

All lentiviruses are purified at high titer of $1X10^7$ cfu/ml and VSV-G pseudotyped for efficient transduction of a wide range cell types. *Available in both Human and Mouse.*

Virus Set/Polycistronic Viruses Ordering Information

Product Name	Catalog No.	Description	Packaging Size
iPSC Yamanaka Factors Lentivirus Set (OSKMG) *set of 5 viruses w/GFP control*	G361/372	Human/Mouse OSKMG – **EF1α** Promoter	5 X 200µl ($1X10^7$ cfu/ml)
	G362/382	Human/Mouse OSKMG – **TET/On** Promoter	
	G359	Human OSKMG – **PGK** Promoter	
	G360	Human OSKMG – **UbC** Promoter	
	G358	Human OSKMG – **CMV** Promoter	
iPSC Thomson Factors Lentivirus Set (OSNLG) *set of 5 viruses w/GFP control*	G356/371	Human/Mouse OSNLG – **EF1α** Promoter	5 X 200µl ($1X10^7$ cfu/ml)
	G357/G381	Human/Mouse OSNLG – **TET/On** Promoter	
	G354	Human OSNLG – **PGK** Promoter	
	G355	Human OSNLG – **UbC** Promoter	
	G353	Human OSNLG – **CMV** Promoter	
iPSC Yamanaka Factors Polycistronic Lentivirus (OSKM) *consists of GFP control*	G352/370	Human/Mouse OSKM – **EF1α** Promoter	200µl ($1X10^7$ cfu/ml)
	G397	Human OSKM – **TET/On** Promoter	
iPSC Thomson Factors Polycistronic Lentivirus (OSNL) *consists of GFP control*	G351/369	Human/Mouse OSNL – **EF1α** Promoter	200µl ($1X10^7$ cfu/ml)
	G396	Human OSNL – **TET/On** Promoter	

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Individual Viruses Ordering Information

Product Name	Catalog No.	Description	Packaging Size
iPSC **KLF4** Lentivirus *Lenti-III Virus expressing KLF4*	G333/363	Human/Mouse KLF4 – **EF1α** Promoter	200µl ($1X10^7$ cfu/ml)
	G345/375	Human/Mouse KLF4 – **TET/On** Promoter	
	G319	Human KLF4 – **PGK** Promoter	
	G315	Human KLF4 – **UbC** Promoter	
	G323	Human KLF4 – **CMV** Promoter	
iPSC **LIN28** Lentivirus *Lenti-III Virus expressing LIN28*	G334/364	Human/Mouse LIN28 – **EF1α** Promoter	200µl ($1X10^7$ cfu/ml)
	G346/376	Human/Mouse LIN28 – **TET/On** Promoter	
	G320	Human LIN28 – **PGK** Promoter	
	G316	Human LIN28 – **UbC** Promoter	
	G324	Human Lin28 – **CMV** Promoter	
iPSC **MYC** Lentivirus *Lenti-III Virus expressing MYC*	G337/365	Human/Mouse MYC – **EF1α** Promoter	200µl ($1X10^7$ cfu/ml)
	G347/377	Human/Mouse MYC – **TET/On** Promoter	
	G341	Human MYC – **PGK** Promoter	
	G343	Human MYC – **UbC** Promoter	
	G339	Human MYC – **CMV** Promoter	
iPSC **NANOG** Lentivirus *Lenti-III Virus expressing NANOG*	G335/366	Human/Mouse NANOG – **EF1α** Promoter	200µl ($1X10^7$ cfu/ml)
	G348/378	Human/Mouse NANOG – **TET/On** Promoter	
	G321	Human NANOG – **PGK** Promoter	
	G317	Human NANOG – **UbC** Promoter	
	G325	Human NANOG – **CMV** Promoter	
iPSC **OCT4** Lentivirus *Lenti-III Virus expressing OCT4*	G336/367	Human/Mouse OCT4 – **EF1α** Promoter	200µl ($1X10^7$ cfu/ml)
	G349/379	Human/Mouse OCT4 – **TET/On** Promoter	
	G322	Human OCT4 – **PGK** Promoter	
	G318	Human OCT4 – **UbC** Promoter	
	G326	Human OCT4 – **CMV** Promoter	
iPSC **SOX2** Lentivirus *Lenti-III Virus expressing SOX2*	G338/368	Human/Mouse SOX2 – **EF1α** Promoter	200µl ($1X10^7$ cfu/ml)
	G350/380	Human/Mouse SOX2 – **TET/On** Promoter	
	G342	Human SOX2 – **PGK** Promoter	
	G344	Human SOX2 – **UbC** Promoter	
	G340	Human SOX2 – **CMV** Promoter	
iPSC **GFP** Lentivirus *Lenti-III Virus expressing GFP*	G385	Reporter GFP – **EF1α** Promoter	200µl ($1X10^7$ cfu/ml)
	G374	Reporter GFP – **TET/On** Promoter	
	G384	Reporter GFP – **PGK** Promoter	
	G383	Reporter GFP – **UbC** Promoter	
	G373	Reporter GFP – **CMV** Promoter	

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ABM Inc. Adenoviral Particles

Adenoviral vector is one of the most efficient gene transfer vehicle developed to date. The vector can offer 100% transient transduction efficiency in most cell lines *in vitro*. Depending on cell dividing rate, transient gene expression in a particular target cell can last 7-10 days. The vector will not integrate into host cell genome, minimizing the possibility of host genome mutations associated with vector insertion.

All our adenoviral vectors are based on human adenovirus type 5 and are prepared in higher titer format for immediate applications. *Available in both Human and Mouse.*

Virus Set/Polycistronic Viruses Ordering Information

Product Name	Catalog No.	Description	Packaging Size
iPSC Yamanaka Factors Adenovirus Set (OSKMG) *set of 5 viruses w/GFP control*	000779A	Human OSKMG – **CMV** Promoter	5 X 250µl ($1X10^{11}$ cfu/ml)
	000789A	Mouse OSKMG – **CMV** Promoter	
iPSC Thomson Factors Adenovirus Set (OSNLG) *set of 5 viruses w/GFP control*	000777A	Human OSNLG – **CMV** Promoter	5 X 250µl ($1X10^{11}$ cfu/ml)
	000787A	Mouse OSNLG – **CMV** Promoter	
iPSC Yamanaka Factors Polycistronic Adenovirus (OSKM) *consists of GFP control*	000780A	Human OSKM – **CMV** Promoter	250µl ($1X10^{11}$ cfu/ml)
	000790A	Mouse OSKM – **CMV** Promoter	
iPSC Thomson Factors Polycistronic Adenovirus (OSNL) *consists of GFP control*	000778A	Human OSNL – **CMV** Promoter	250µl ($1X10^{11}$ cfu/ml)
	000788A	Mouse OSNL – **CMV** Promoter	

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Indivdual Viruses Ordering Information

Product Name	Catalog No.	Description	Packaging Size
iPSC **KLF4** Adenovirus *pAdeno Virus expressing KLF4*	000693A	Human KLF4 – **CMV** Promoter	250µl ($1X10^{11}$ cfu/ml)
	000781A	Mouse KLF4 – **CMV** Promoter	
iPSC **LIN28** Adenovirus *pAdeno Virus expressing LIN28*	000696A	Human LIN28 – **CMV** Promoter	250µl ($1X10^{11}$ cfu/ml)
	000782A	Mouse LIN28 – **CMV** Promoter	
iPSC **MYC** Adenovirus *pAdeno Virus expressing MYC*	000695A	Human MYC – **CMV** Promoter	250µl ($1X10^{11}$ cfu/ml)
	000783A	Mouse MYC – **CMV** Promoter	
iPSC **NANOG** Adenovirus *pAdeno Virus expressing NANOG*	000697A	Human NANOG – **CMV** Promoter	250µl ($1X10^{11}$ cfu/ml)
	000784A	Mouse NANOG – **CMV** Promoter	
iPSC **OCT4** Adenovirus *pAdeno Virus expressing OCT4*	000692A	Human OCT4 – **CMV** Promoter	250µl ($1X10^{11}$ cfu/ml)
	000785A	Mouse OCT4 – **CMV** Promoter	
iPSC **SOX2** Adenovirus *pAdeno Virus expressing SOX2*	000691A	Human SOX2 – **CMV** Promoter	250µl ($1X10^{11}$ cfu/ml)
	000786A	Mouse SOX2 – **CMV** Promoter	
iPSC **GFP** Adenovirus *pAdeno Virus expressing GFP*	000694A	Reporter GFP – **CMV** Promoter SC Contruct	250µl ($1X10^{11}$ cfu/ml)