Cell Type	Cell Line	NANOG	OCT4	SOX2	KLF4	REX1	DNMT3B	LIN28	MYC
Conventionally maintained hiPSCs on MEF	OKS hiPSC	0.437	0.617	0.781	0.761	0.783	0.764	0.968	0.928
	OKS hiPSC	1.423	0.841	0.837	1.547	0.990	0.837	1.033	0.439
	OKS hiPSC	0.904	1.189	1.028	1.109	1.068	1.497	0.833	1.496
	OKS hiPSC	0.641	1.395	0.972	0.902	1.010	1.014	1.112	1.078
	OKS hiPSC	1.107	1.308	1.618	1.839	1.088	1.217	0.561	1.184
hESC on MEF	H1 ESCs	1.239	0.271	1.078	0.839	0.965	0.986	1.156	0.385
OSNKLMT Episomal hiPSCs in FMM	FTC016-c5	1.211	0.447	1.335	2.513	1.227	1.897	1.233	0.719
	FTC007-c1	1.389	1.478	1.929	5.413	1.668	2.015	1.506	2.076
	FTC016-c25	1.084	0.453	1.120	4.130	1.444	1.362	1.231	1.037
	FTC016-c36	0.955	0.462	1.448	4.597	1.416	1.115	1.249	0.873
	FTC016-c28	0.885	0.419	1.483	1.501	1.293	1.499	1.506	0.626
	FTC017-c11	0.905	1.520	1.639	5.825	1.478	1.498	1.405	0.821
	FTC016-c31	1.040	0.393	1.353	3.249	1.207	0.991	1.040	0.607
	FTC017-c14	0.522	6.003	1.717	14.024	1.292	2.306	0.243	7.228
	FTC007-c21	1.862	1.733	2.025	2.800	1.692	1.940	1.495	1.674
Minimal Factor Episomal hiPSCs in FMM	ONS+OS+2xO-c7	1.270	1.248	1.642	7.658	1.563	1.659	1.304	0.949
	ONS+OS+2xO-c10	1.243	0.856	1.167	8.475	1.395	1.541	1.270	0.843
	ONS+2xO-c5	1.172	0.794	1.399	4.352	1.105	1.865	1.432	0.547
	ONS+2xO-c8	1.114	1.007	1.162	8.367	1.091	1.544	1.448	0.542
	ONS+2xO-c9	1.183	0.856	1.015	9.251	1.303	1.218	1.507	0.536
	OS+2xO-c7	1.203	0.866	1.740	9.434	1.529	1.152	1.402	0.766
	OS+2xO-c9	1.406	0.863	1.650	8.231	1.379	2.053	1.534	0.662

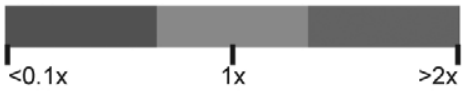


FIG. 6A

Cell Type	Cell Line	T	CXCR4	NODAL	GATA4	SOX17	FOXA2	OTX2	TUJ1
Conventionally maintained hiPSCs on MEF	OKS hiPSC	0.361	0.002	0.000	1.567	2.668	0.001	0.000	0.000
	OKS hiPSC	1.431	1.489	2.023	0.563	0.993	1.205	0.648	1.853
	OKS hiPSC	1.200	2.269	3.673	2.329	1.600	4.834	1.770	1.641
	OKS hiPSC	0.102	1.185	0.494	0.579	0.581	0.830	1.543	1.200
	OKS hiPSC	2.247	0.844	2.996	2.056	0.702	4.476	2.126	0.834
hESC on MEF	H1 ESCs	0.833	0.001	0.000	0.638	1.007	0.000	0.000	0.000
OSNKLMT Episomal hiPSCs in FMM	FTC016-c5	0.011	0.046	0.171	0.001	0.002	0.001	0.892	2.023
	FTC007-c1	0.006	0.128	1.105	0.020	0.006	0.046	2.085	2.031
	FTC016-c25	0.035	0.001	0.000	0.015	0.001	0.000	0.000	0.001
	FTC016-c36	0.026	0.001	0.000	0.010	0.003	0.000	0.000	0.001
	FTC016-c28	0.004	0.075	0.093	0.000	0.001	0.011	1.117	2.257
	FTC017-c11	0.046	0.001	0.000	0.092	0.001	0.000	0.000	0.001
	FTC016-c31	0.015	0.095	0.401	0.002	0.002	0.009	0.531	2.895
	FTC017-c14	0.460	0.377	0.003	0.145	0.435	0.141	0.007	0.016
	FTC007-c21	0.094	0.003	0.000	0.089	0.002	0.001	0.000	0.001
Minimal Factor Episomal hiPSCs in FMM	ONS+OS+2xO-c7	0.081	0.003	0.000	0.020	0.003	0.001	0.001	0.004
	ONS+OS+2xO-c10	0.322	0.002	0.000	0.069	0.008	0.001	0.000	0.003
	ONS+2xO-c5	0.044	0.001	0.000	0.023	0.004	0.000	0.000	0.001
	ONS+2xO-c8	0.011	0.001	0.000	0.027	0.002	0.000	0.000	0.001
	ONS+2xO-c9	0.074	0.001	0.000	0.036	0.003	0.000	0.000	0.000
	OS+2xO-c7	0.005	0.001	0.000	0.019	0.000	0.000	0.000	0.002
	OS+2xO-c9	0.145	0.001	0.000	0.028	0.009	0.000	0.000	0.001

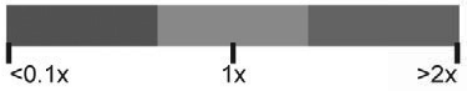


FIG. 6B

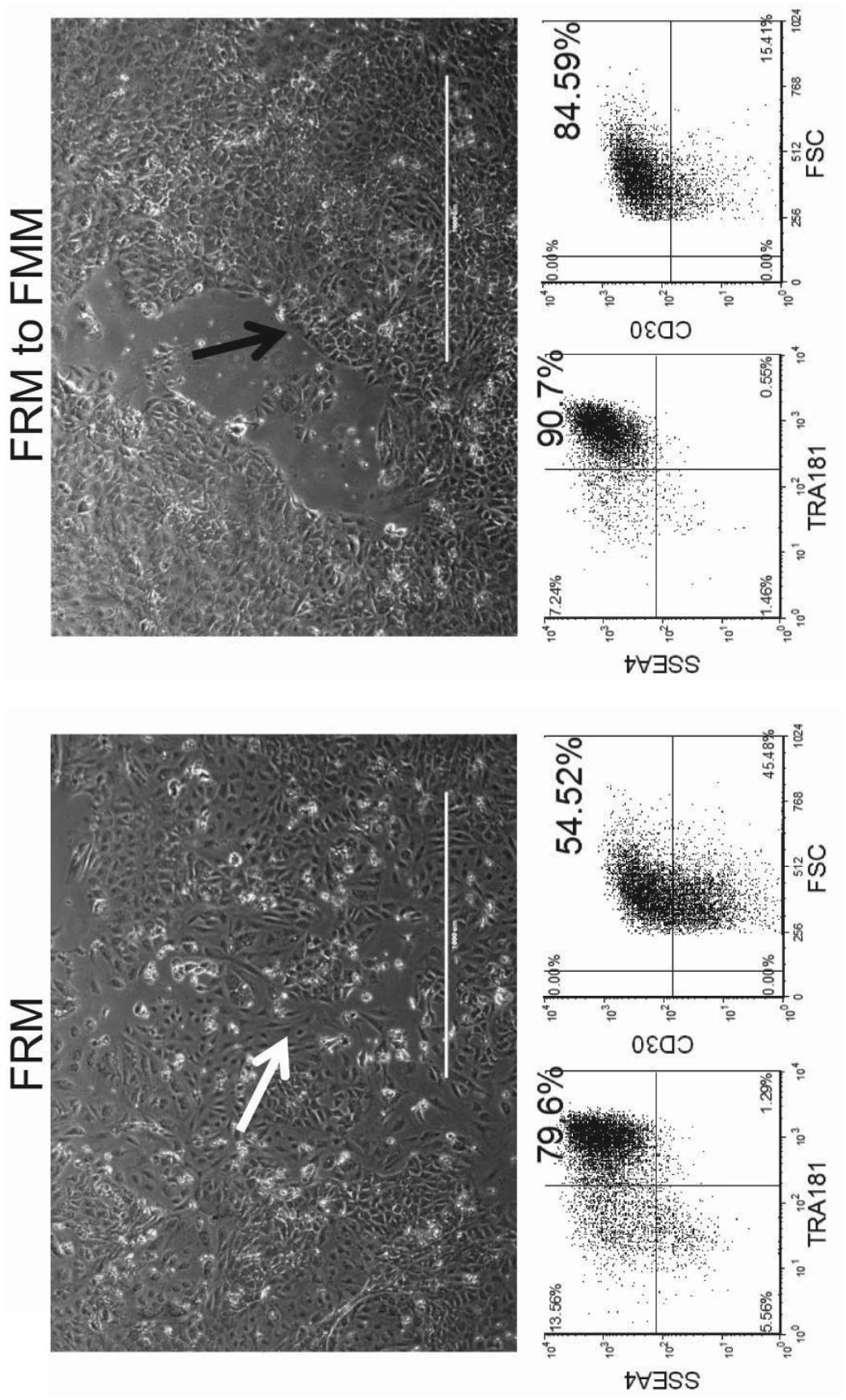

FRM
FRM to FMM
79.6%
13.56%
5.56%
1.29%
54.52%
0.00%
0.00%
45.48%
90.7%
7.24%
1.46%
0.55%
84.59%
0.00%
0.00%
15.41%
SSEA4
TRA181
CD30
FSC

FIG. 8D

Cell Line	Description		Cell Line	Description
FTC016-c28 & -c36	Cord blood parental, episomal-generated and maintained in FRM/FMM		6F Lenti-hiPSC-c1, -c2 & -c3	Fibroblast parental, OSKMNL lentiviral hiPSC clone generated and maintained in conventional hESC culture
FTC007-C21	Fibroblast parental, episomal-generated and maintained in FRM/FMM		3F Lenti-hiPSC-c1 & -c4	Fibroblast parental, OKS lentiviral hiPSC clone generated and maintained in conventional hESC culture
3F Lenti-hiPSC-c2 & -c3	Fibroblast parental, OKS lentiviral hiPSC clone generated and maintained in SMC4			

FIG. 13A

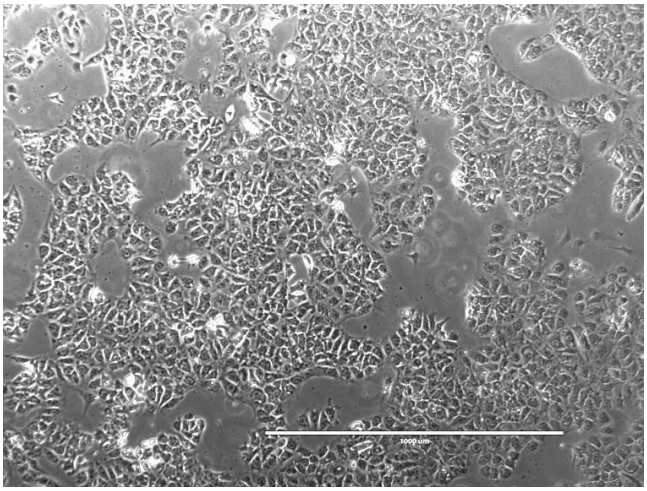


FIG. 19A

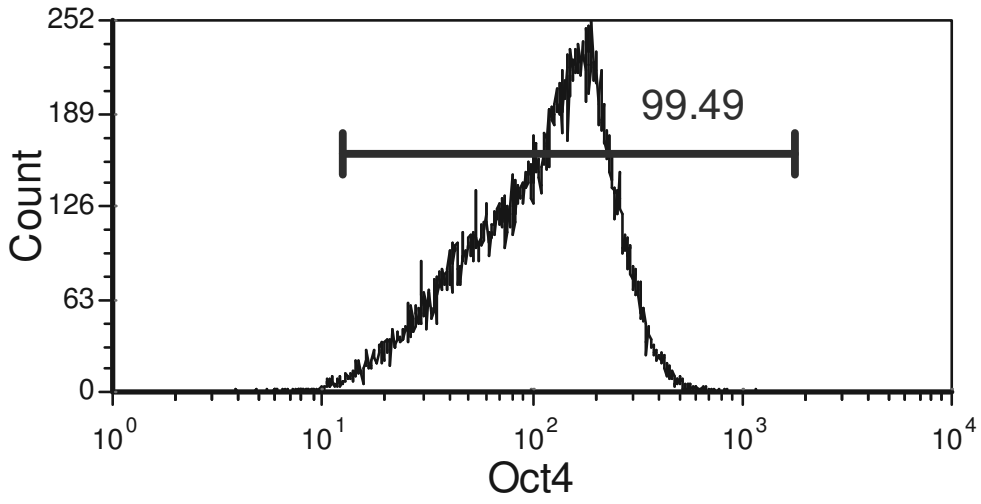


FIG. 19B

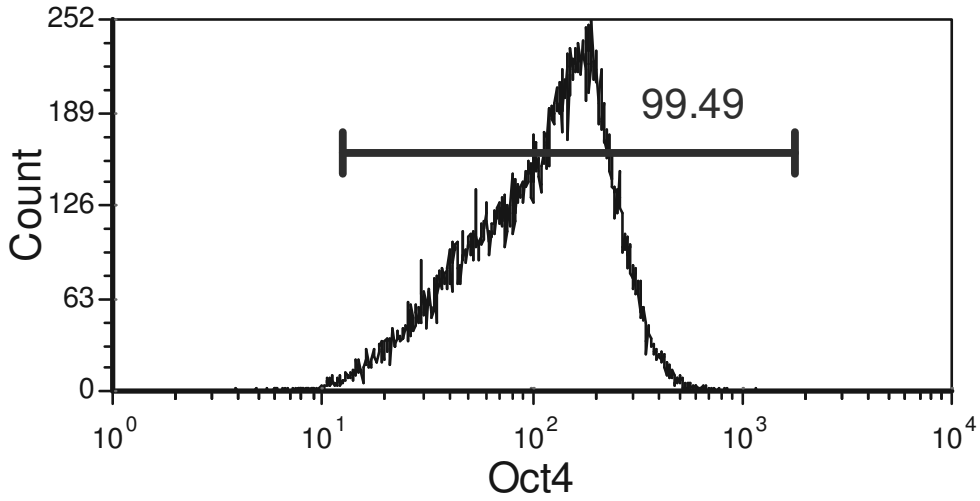


FIG. 20A

Clone 5, Passage 9

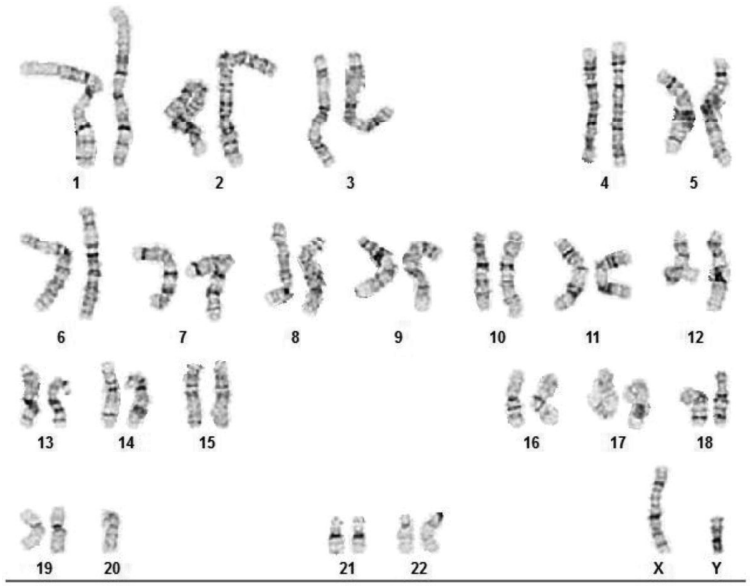


FIG. 20B

Clone 10, Passage 8

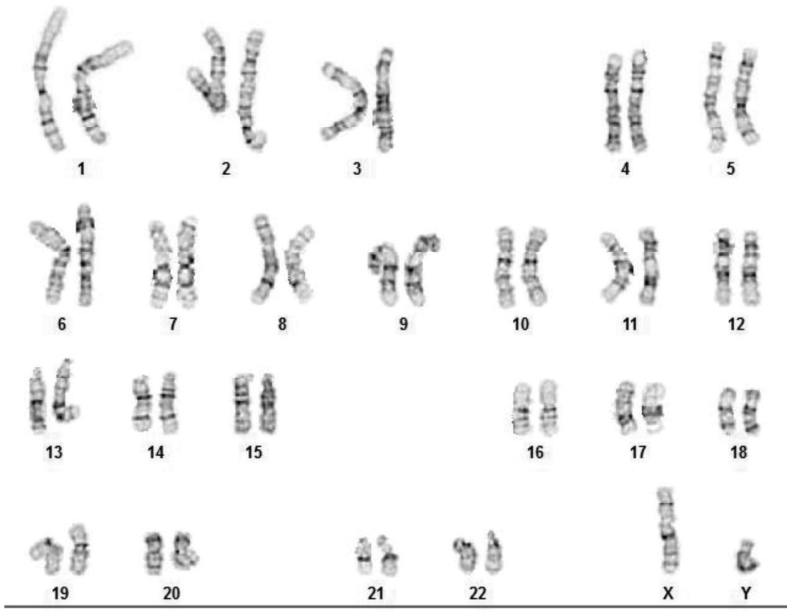


FIG. 20C

Clone 3, Passage 9

