

Figure S12: List of tumor suppressor genes down-regulated and oncogenes upregulated in human iPSCs compared to ESCs

List of tumor suppressor genes and oncogenes whose expression levels renders iPSCs suspicious

hgnc symbol	gene class	consensus dir fib-iPS	top 1000 in fib-iPS comparison	available fib-iPS comparisons	average rank in fib-iPS comparison	Fib-iPS top 1000 in n% exp available	consensus dir change fib-es	top 1000 in fib-es comparison	available fib-es comparisons	average rank in fib-es comparison	Fib-ES top 1000 in n% exp available	consensus dir change fib-preiPS	top 1000 in fib-part-iPS comparison	available fib-part-iPS comparisons	average rank in fib-part-iPS comparison	Fib-pre iPS top 1000 in n% exp available
LCK	oncogene	up in iPS	10	13	733	77%	up in ES	8	12	1273	67%	up in pre-iPS	0	2	4319	0%
MYCN	oncogene	up in iPS	11	13	734	85%	up in ES	9	12	1031	75%	up in pre-iPS	0	2	6145	0%
MSH2	oncogene	up in iPS	4	12	1103	33%	up in ES	3	11	1475	27%	up in pre-iPS	1	2	1058	50%
FGFR2	oncogene	up in iPS	9	12	1753	75%	up in ES	9	11	2204	82%	up in pre-iPS	1	1	173	100%
MYCL1	oncogene	up in iPS	4	13	3501	31%	up in ES	2	12	3600	17%	up in pre-iPS	0	2	5847	0%
TIAM1	oncogene	up in iPS	7	12	3521	58%	up in ES	6	11	4230	55%	up in pre-iPS	1	1	698	100%
PIM1	oncogene	up in iPS	2	12	4556	17%	up in ES	1	11	5104	9%	down in pre-iPS	0	1	6665	0%
PMS1	oncogene	up in iPS	0	13	5064	0%	up in ES	0	12	5227	0%	up in pre-iPS	0	2	3464	0%
KRAS	oncogene	up in iPS	0	13	5575	0%	up in ES	2	12	5155	17%	ambiguous	0	2	3168	0%
TERT	oncogene	up in iPS	1	13	6014	8%	up in ES	1	12	5788	8%	up in pre-iPS	0	2	3883	0%
KIT	oncogene	up in iPS	2	13	6028	15%	up in ES	3	12	5132	25%	down in pre-iPS	0	2	3997	0%
FGF4	oncogene	up in iPS	1	13	6046	8%	up in ES	1	12	5972	8%	ambiguous	0	2	8637	0%
CDKN2A	tumor suppressor	down in iPS	3	12	5043	25%	down in ES	3	11	4950	27%	up in pre-iPS	0	1	8097	0%
PTEN	tumor suppressor	down in iPS	0	13	5143	0%	down in ES	0	12	6158	0%	ambiguous	0	2	6435	0%
NF2	tumor suppressor	down in iPS	1	13	5562	8%	down in ES	0	12	5768	0%	down in pre-iPS	0	2	5318	0%
RB1	tumor suppressor	down in iPS	0	13	5939	0%	down in ES	0	12	5012	0%	down in pre-iPS	0	2	7469	0%

of being more tumor-prone than ESCs