

Supplementary Table 1. Prerank GSEA analysis for 26 published stemness-associated gene sets.

Term	No. of genes	NES ^a	FDR q-value ^b	Tag % ^c
Yan, underexpressed in CD133+ GBM cells ⁵	125	2.5830	0	76/116
Kim, core human ⁶	75	2.1563	0	30/73
Bhattacharya, hESC ⁷	88	2.1081	0	60/87
Wong, core ESC-like module ⁸	335	2.1033	0	182/315
Benporath, ES1 ⁷	379	2.0494	0	171/352
Wong, human ESC-like module ⁸	1192	2.0275	0	559/1110
Benporath, Nanog ⁷	360	1.9690	0	140/351
Palmer, Stem cell gene set ⁹	189	1.9622	0	72/176
Shats, consensus ⁷	80	1.9609	0	47/80
Shats, iPSC ⁷	86	1.9550	7.92E-05	47/71
Kim, PrC_Human ⁶	451	1.9484	7.39E-05	168/434
Kim, Myc ⁷	325	1.9291	6.93E-05	126/325
Benporath, Sox2 ⁷	360	1.8909	6.52E-05	146/353
Zhang, Stem.sig ¹⁰	454	1.8874	6.16E-05	134/390
Kim, Myc Human ⁶	355	1.8549	5.84E-05	128/337
Kim, core factors ¹¹	8	1.8280	1.66E-04	5/8
Benporath, proliferative genes ⁷	1035	1.7447	6.86E-04	278/849
Sato, HESC and MESC overlap genes ¹²	20	1.7382	7.06E-04	6/9
Smith, human epithelial ASC ⁷	49	1.6495	3.13E-03	15/47
Yuan, CancerSEA ¹³	62	1.6173	4.57E-03	21/55
Miranda, Curated without immune and proliferative genes ⁷	109	1.6135	4.52E-03	46/103
Kim, Myc-related factors ¹¹	11	1.5951	5.50E-03	7/11
Benporath, ES2 ⁷	40	1.4576	2.29E-02	11/37
Yan, overexpressed in CD133+ GBM cells ⁵	89	1.3691	4.63E-02	28/87
Kim, polycomb related factors ¹¹	7	1.2885	8.41E-02	4/7
Sato, HESC-related genes ¹²	16	1.2306	1.23E-01	6/9

^aNES: Normalized enrichment score, the enrichment score for the gene set after it has been normalized across analyzed gene sets.

^bFDR q-value: False discovery rate, the estimated probability that the normalized enrichment score represents a false positive finding.

^cTag %: The percentage of gene hits before (for positive ES) or after (for negative ES) the peak in the running enrichment score. This gives an indication of the percentage of genes contributing to the enrichment score.

