

Supplementary Table 1.									
HUES cell line #	Blastocyst Score	Undifferentiated Staining (positive for Oct 4, SSEA 3/4, TRA-1-60/81 and AP)	Embryoid Bodies (stained positive for 3 germ layers)	Teratoma (stained positive for 3 germ layers)	Karyotype	Doubling Time	Frozen and Thawed	Expanded	Passage Achieved (# of pop. dblngs)
1	4AB	✓	✓	✓	p20-46,XX p30-46,XX p39-46,XX,2q+	p43; 24hrs	✓	40 vial p27 60 vials p16 30 vials p15	p56 (~140)
2	3BB	✓	✓	✓	p48-46,XX p50-46,XX	p38; 24hrs	✓	50 vials p16	p59 (~147)
3	4AC	✓	✓	✓	p23-46,XY p33-47,XY,+12/46,XY p34-47,XY,+12/46,XY	p34; 60hrs	✓	50 vials p26	p52 (~130)
4	3BB	✓	✓	✓	p20-46,XY p22-46,XY p29-47,XY,+12/46,XY	p35; 48hrs	✓	65 vials p21	p51 (~127)
5	3BC	✓	✓	✓	p14- <sup>*</sup> 46,XX, inv9	p15; 72hrs	✓	80 vials p12	p28 (~84)
6	4AC	✓	✓	✓	p12-46,XX	p19; 24hrs	✓	80 vials p17	p54 (~132)
7	4BB	✓	✓	✓	p10-46,XY	p13; 48hrs	✓	75 vials p11	p26 (~78)
8	3AA	✓	✓	✓	p10-46,XY	p19; 48hrs	✓	50 vials p21	p23 (~69)
9	3AA	✓	✓	✓	p9- <sup>*</sup> 46,XX,inv9	p11; 24hrs	✓	50 vials p13	p22 (~66)
10	3CA	✓	✓	✓	p7-46,XY	p19; 72hrs	✓	75 vials p10	p21 (~63)
11	4CB	✓	✓	✓	p10-46,XY	N.D.	✓	50 vials p13	p18 (~54)
12	4AC	✓	✓	✓	p12-46,XX p15-46,XX	N.D.	✓	75 vials p13	p24 (~72)
13	3AA	✓	✓	✓	p11-46,XY	p11; 24hrs	✓	80 vials p15	p18 (~54)
14	4AA	✓	✓	✓	p10-46,XX p11-46,XX	p14; 48hrs	✓	40 vials p16	p18 (~52)
15	3CC	✓	✓	✓	p7-46,XX	p10; 48hrs	✓	30 vials p12 60 vials p13	p17 (~51)
16	4AA	✓	✓	N.D.	p8-46,XY p9-46,XY	p9; 48 hrs	✓	56 vials p14 80 vials p15	p18 (~54)
17	4AA	✓	N.D.	✓	p13-46,XY	N.D.	✓	40 vials p15 60 vials p16	p17 (~51)

\* inv(9)(p11q13) is a frequently observed chromosomal variant of no clinical significance.