Supplemental Table 3. Comparison of the level of RBC blood group proteins between autologous endogenous and *in vitro* differentiated erythroid cells. Endogenous cord RBCs and reticulocytes (Retic) differentiated *in vitro* from cord $CD34^+$ cells isolated from the same donor were fractionated and proteins subjected to trypsin digest, with resultant peptides labelled with TMTs for nanoLC-MS/MS based quantitation. Values show the ratio of protein levels between the cord RBCs and reticulocytes. Proteins were quantified from at least 2 unique peptides. Peptides and unique peptides; the total number of peptide sequences and number of unique peptides identified for that protein. Proteome Discoverer software v1.4 was used for analysis.

Accession	Description	System	Unique Peptides	Peptides	Cord RBC/Retic
C9JGQ9	ACHE	Yt	5	5	1.570
E9PC21	AQP1	Colton	2	2	3.869
Q9NP58	ATP-binding cassette sub-family B member 6	LAN	14	15	1.244
Q9UNQ0	ATP-binding cassette sub-family G member 2	JR	3	3	2.045
P02730	Band 3 anion transport protein	Dieago	27	27	3.168
P50895	Basal cell adhesion molecule	Lutheran	10	10	2.328
Q54A51	Basigin	Ok	11	11	1.547

Q02161	Blood group Rh(D) polypeptide	Rh	1	2	13.012
A6H8M8	C4A protein	Chido/Rodgers	1	1	1.590
B6EAT9	CD44	Indian	6	6	1.743
E9PNW4	CD59	CD59	3	3	3.794
A6NIW1	CD99 antigen	Xg	1	1	1.324
E9PDY4	CR1	knops	2	2	0.673
Q14UF5	Decay-accelerating factor	Cromer	11	11	3.390
Q93070	Ecto-ADP-ribosyltransferase 4	Dombrock	3	3	2.638
Q96PL5	Erythroid membrane-associated protein	Scianna	10	10	2.228
B8Q185	Glycophorin A MNS blood group	MNS	3	3	5.967
P04921	Glycophorin-C	Gerbich	4	4	2.774
Q14773	Intercellular adhesion molecule 4	Landsteiner-Wiener	5	5	4.578
P23276	Kell blood group glycoprotein	Kell	8	8	2.502
P51811	Membrane transport protein XK	Kx	6	6	2.481
F5H250	RHAG	Rh associated	1	1	4.191

		glycoprotein			
E7EWZ5	RHCE	Rh	1	2	8.344
O75326	Semaphorin-7A	John Milton Hagen	8	8	1.887
E9PR61	SLC14A1	Kidd	1	5	1.427
Q13336	Urea transporter 1 SLC14A1	Kidd	3	7	2.066