

TABLE #1: PRIMARY ERYTHROID PROGENITOR CELLS; TRYPSIN DIGEST; PHOSPHOTYROSINE (CST# 9411)

Index	Index in Detail	Normalized Fold Change				Gene Name	Protein Name	Site	Description	Accession	kD	Upstream Kinase	Downstream Target	Peptide
		Early +EPO : Early C	Late +EPO : Late C	Late C : Early C	Late +EPO : Early +EPO									
1	Adaptor/scaffold													
2	7	1.6	ND	ND	ND	Cacybp	CacyBP	\$200	calcyclin binding protein	Q9CXW3	27			KIY*EDGDDMKR
3	9	1.3	-2.0	1.1	-2.1	Dok1	Dok1	\$361	docking protein 1	P97465	52	Abl iso2, InsR		TKLTDSKEDPIY*DEPEGLAPAPPR
4	12	-1.2	-4.0	-4.7	-13.0	Fyb	SLAP-130	\$559, \$561	FYN binding protein	O35601	90			TTAVEIDY*DS*LKRKK
5	13	-1.2	1.9	-4.3	-1.6	G3bp1	G3BP-1	\$56	ras-GTPase-activating protein SH3-domain binding protein	P97855	52	Lck		NSSYAHGGLDSNGKPADAVY*GQK
6	14	-1.3	ND	ND	ND	G3bp2, G3bp2	G3BP-2, G3BP-2 iso2	\$56, \$56	Ras-GTPase-activating protein (GAP120) SH3-domain binding protein 2 isoform a	P97379; P97379-2	54; 51			NSSYVHGGVDASGKPOEAVY*G QNDIHHK
7	15	6.2	3.8	1.4	1.0	Gab1	Gab1	\$660	growth factor receptor bound protein 2-associated protein 1	Q9QYY0	77	EGFR, InsR, Met, SHP-2	SHP-2	SSGSGSSMADERVDY*VVVDQQK
8	17	-1.2	-2.8	1.5	-1.3	Gnb2l1	RACK1	46	guanine nucleotide binding protein (G protein), beta polypeptide 2 like 1	P99049	35			LT*RDETNYGIPQR
9	20	-1.4	-1.2	-2.2	-1.6	Irs2	IRS-2	\$649	insulin receptor substrate 2	P81122	137			SSSSNLGADDGY*MPM#TPGAALR
10	24	-2.3	-2.6	-1.4	-1.3	Irs2	IRS-2	668	insulin receptor substrate 2	P81122	137			SGGPN\$CKS*DDYMPM#SPTS\$V\$APK
11	26	-3.4	-1.0	-2.7	1.5	Irs2	IRS-2	\$671	insulin receptor substrate 2	P81122	137			SGGPN\$CKSDDY*MPMSPTS\$V\$APK
12	30	1.2	ND	ND	ND	Irs2	IRS-2	\$728, \$734	insulin receptor substrate 2	P81122	137			ASSPAESS*PEDSGY*MR
13	31	-1.7	1.0	-2.2	-1.1	Irs2	IRS-2	\$734	insulin receptor substrate 2	P81122	137			ASSPAESSPEDSGY*MR
14	34	-1.4	-1.4	-1.7	-1.5	Irs2	IRS-2	\$814	insulin receptor substrate 2	P81122	137			SYKAPSCSGDNDQY*VLM\$PSSVGR
15	37	-1.0	ND	ND	ND	Nck1	Nck1	\$105	non-catalytic region of tyrosine kinase adaptor protein 1	Q9Z279	43			RKPSV\$PDTASPADDSFVDPGERLY* DLNMPAFVK
16	39	17.6	ND	ND	ND	Nck1	Nck1	\$85, \$105	non-catalytic region of tyrosine kinase adaptor protein 1	Q9Z279	43			RKPS*VPDTASPADDSFVDPGERLY* DLNMPAFVK
17	41	-2.7	ND	ND	ND	Pxn; Pxn	PXN; PXN iso2	\$118, \$118	paxillin isoform alpha	Q8V136; Q8V136-2	64; 61	Brk, FAK, Fyn, Pyk2, Src; Brk, FAK, Fyn, Pyk2, Src	CDK6, Crk, Crlk, DOCK1, RasGAP; CDK6, Crk, Crlk, DOCK1, RasGAP	AGEEEHHVY*SPFNKQK
18	42	1.0	1.5	-3.8	-2.1	Ranbp2	RanBP2	\$1349	RAN binding protein 2	Q9ERU9	341			EGPY*WNCN\$CSFK
19	43	8.5	ND	ND	ND	Shc1; Shc1; Shc1	Shc1; Shc1 iso2; Shc1 iso3	\$422, \$312, \$267	src homology 2 domain-containing transforming protein C isoform a	P98083; P98083-2; P98083-3	63; 51; 46			ELFDDPS*YVNIQLDKAR
20	44	12.0	ND	ND	ND	Shc1; Shc1; Shc1	Shc1; Shc1 iso2; Shc1 iso3	\$423, \$313, \$268	src homology 2 domain-containing transforming protein C isoform a	P98083; P98083-2; P98083-3	63; 51; 46	EGFR, FAK, Lck, Src; EGFR, FAK, Lck, Src; EGFR, FAK, Lck, Src	Grb2, PIK3R1, PPP2CA, SHIP, SOS1, VAV1, ZAP70; Grb2, PIK3R1, PPP2CA, SHIP, SOS1, VAV1, ZAP70; Grb2, PIK3R1, PPP2CA, SHIP, SOS1, VAV1, ZAP70	ELFDDPSY*VNIQLDK
21	46	1.1	ND	ND	ND	Skip2	RA70	\$197	src family associated phosphoprotein 2	Q9Z2K4	41			IY*QFTA\$PK
22	47	-1.8	-8.3	-2.3	-9.2	Skip2	RA70	\$260	src family associated phosphoprotein 2	Q9Z2K4	41	Fyn	Fyn, Hck, Lyn	SQPIDDEIY*EELPEEEEDTASVK
23	48	1.1	ND	ND	ND	Tjp1	ZD1	\$1177	tight junction protein 1	P39447	195			YRPEAQPY*SSTGPK
24	49	-1.3	ND	ND	ND	Tjp1	ZD1	1178	tight junction protein 1	P39447	195			YRPEAQPY\$*STGPK
25	50	1.6	ND	ND	ND	Was	WASP	\$293	Wiskott-Aldrich syndrome homolog	P70315	54	Abl iso2, Ack, Fyn, Hck, Lck, Lyn, PTPN12	WIP	AGISEAQLD\$ATSKLIY*DFIEDQ GGLEAVR
26	Adhesion or extracellular matrix protein													
27	53	1.1	-1.2	2.7	2.5	Rpsa	laminin receptor 1	135	ribosomal protein SA	P14206	33			ADH\$PLT*EASYVNLPTIALCNTD\$PLR
28	54	1.1	-1.2	2.7	2.5	Rpsa	laminin receptor 1	\$139	ribosomal protein SA	P14206	33			ADH\$PLTEASY*VNLPTIALCNTD\$PLR
29	Autophagy													
30	55	-1.3	-2.1	2.9	2.1	Ambra1	AMBRA1	\$727, 728	activating molecule in Beclin1-regulated autophagy isoform 2	Q3U239	143			L\$PAAY*Y*AQRM#IQYLSRRDSIR
31	Calcium-binding protein													
32	57	2.4	ND	ND	ND	Calm1	calmodulin	\$99	calmodulin 1	P62204	17	EGFR, InsR, Src		VFDKDGNGY*ISAAELR
33	Chaperone													
34	59	1.1	-1.3	-1.6	-1.9	Hsp90ab1	HSP90B	\$483	heat shock protein 1, beta	P11499	83			SIY*YITGESK
35	60	-2.1	ND	ND	ND	Tcp1	CCT-alpha iso2	\$495	t-complex protein 1	P11983-2	55			LHPESKDDKHGSY*YENAVH\$GALDD
36	61	-1.1	ND	ND	ND	Tcp1	CCT-alpha; CCT-alpha iso2	545; 496	t-complex protein 1	P11984; P11983-2	60; 55			DDKHGSY*ENAVH\$GALDD
37	Chromatin, DNA-binding, DNA repair or DNA replication protein													
38	62	1.2	ND	ND	ND	Ddb1	DOB1	193	damage specific DNA binding protein 1	Q9QYK0	127			HVKTY*EVSLR
39	63	-1.2	1.2	1.1	1.8	H2b1N; H2b1C; H2b; H2b2E; H2b1D; H2b1H	H2B1N; H2B1C; H2B; H2B2E; H2B1D; H2B1H	37, 37, \$36, 37, 36, 37	histone cluster 1, H2bb	Q64475; Q6ZWY9; P10853; Q64478; P10854; Q64525	14; 14; 14; 14; 14; 14	Akl1, PKACa, PKCa, PKG1		KES*YSVYVYK
40	64	-1.2	1.2	1.1	1.8	H2b1N; H2b1C; H2b; H2b2E; H2b1D; H2b1H	H2B1N; H2B1C; H2B; H2B2E; H2B1D; H2B1H	\$38, \$38, 37, 38; \$37, \$38	histone cluster 1, H2bb	Q64475; Q6ZWY9; P10853; Q64478; P10854; Q64525	14; 14; 14; 14; 14; 14			KESY*SVYVYK
41	65	-1.2	-1.8	3.8	2.9	H2b1N; H2b1C; H2b; H2b2E; H2b1D; H2b1H	H2B1N; H2B1C; H2B; H2B2E; H2B1D; H2B1H	39, 39, \$38, 39; 38, 39	histone cluster 1, H2bb	Q64475; Q6ZWY9; P10853; Q64478; P10854; Q64525	14; 14; 14; 14; 14; 14			SRKESYS*VYVYK
42	68	-1.0	1.4	2.1	3.5	H2b1N; H2b1C; H2b; H2b2E; H2b1D; H2b1H	H2B1N; H2B1C; H2B; H2B2E; H2B1D; H2B1H	\$41; \$41; \$40; \$41; \$40; \$41	histone cluster 1, H2bb	Q64475; Q6ZWY9; P10853; Q64478; P10854; Q64525	14; 14; 14; 14; 14; 14			KESYSYV*YVYK
43	71	-1.0	-1.1	1.7	1.8	H2b1N; H2b1C; H2b; H2b2E; H2b1D; H2b1H	H2B1N; H2B1C; H2B; H2B2E; H2B1D; H2B1H	\$43; \$43; \$42; \$43; \$42; \$43	histone cluster 1, H2bb	Q64475; Q6ZWY9; P10853; Q64478; P10854; Q64525	14; 14; 14; 14; 14; 14			KESYSYVYV*YK
44	72	1.1	1.5	1.7	2.7	H4; H4H4	H4; H4H4	\$51; \$52	histone cluster 1, H4a	P62806; NP_783588	11; 11			ISGLIY*EETR
45	73	-2.2	-1.7	6.4	10.1	Prdm1	BLIMP-1	135	PR domain containing 1, with ZNF domain	Q60636	96			YAANSKEVIGVVS*KEYIPK
46	74	1.1	1.2	1.1	1.4	Rad18	RAD18	55	RAD18 homolog	O9QXK2	57			FLS*YKTCQPTCCVAVTEPDLR
47	76	-1.4	-2.2	-1.1	-1.5	Rad18	RAD18	\$56	RAD18 homolog	O9QXK2	57			KFLSY*KTQCPCTCCVAVTEPDLR
48	Cytoskeletal protein													
49	78	-1.3	ND	ND	ND	Kif14	KIF14	1009	kinesin family member 14	Q7TQJ9	181			AKQHLEQEVY*VNKR
50	79	1.3	ND	ND	ND	Kif23	KIF23	\$583	kinesin family member 23	Q80V30	109			TTTIY*EEDKR
51	80	1.7	ND	ND	ND	Tln1	talin 1	\$436	talin 1	P26039	270			KSTVLQOQY*NR
52	Enzyme, misc.													
53	81	34.9	5.2	-1.1	-6.2	Acad11	ACAD11	\$323	acyl-Coenzyme A dehydrogenase family, member 11	Q80XL6	87			LAGISOGVY*RR
54	82	1.5	3.5	-2.3	1.2	Ahcy	SAHH	\$193	S-adenosylhomocysteine hydrolase	P50247	48			SKFDONLY*GCR

Charge	Calc. m/z	Count in Details	Average RT	Raw Intensity								Average Raw Intensity				Normalized Fold Change			
				Early C (CS7183)	Early C (CS7184)	Early +EPO (CS7185)	Early +EPO (CS7186)	Late C (CS7187)	Late C (CS7188)	Late +EPO (CS7189)	Late +EPO (CS7190)	Early C	Early +EPO	Late C	Late +EPO	Early +EPO : Early C	Late +EPO : Late C	Late C : Early C	Late +EPO : Early +EPO
Adaptor/scaffold																			
3	522.2165	2	54.87	20,285	18,100	22,038	36,485					19,193	29,262			1.6			
3	907.1003	1	68.54	138,539	161,830	220,000	163,325	30,700	18,100	15,100	13,700	150,185	191,663	24,400	14,400	1.3	-2.0	1.1	-2.1
3	642.9706	3	62.67	396,625	441,024	289,430	365,932	10,400	17,000			418,825	327,681	13,700	4,000	-1.2	-4.0	-4.7	-13.0
3	806.0237	1	60.26	96,743	138,813	85,733	102,623	5,270	3,180	11,500	7,190	117,778	94,178	4,225	9,345	-1.2	1.9	-4.3	-1.6
4	769.3493	1	60.66	21,131	34,312	25,162	16,900					27,722	21,031			-1.3			
3	808.6843	2	66.81		18,700	104,820	116,446			24,500	10,700	18,700	110,633	4,000	17,600	6.2	3.8	1.4	1.0
3	548.2577	1	59.95	38,700	45,200	28,700	36,000	8,060	11,500			41,950	32,350	9,780	4,000	-1.2	-2.8	1.5	-1.3
2	1147.4769	5	69.12	402,300	251,560	252,341	209,423	22,100	23,581	26,468	18,700	326,930	230,882	22,841	22,584	-1.4	-1.2	-2.2	-1.6
3	866.0182	2	64.04	239,292	283,377	110,705	110,197	28,300	31,778	14,900	11,500	261,335	110,451	30,039	13,200	-2.3	-2.6	-1.4	-1.3
3	860.6866	4	67.04	451,071	590,024	149,731	147,059	35,678	24,581	49,600	19,200	520,548	148,395	30,130	34,400	-3.4	-1.0	-2.7	1.5
2	915.8181	1	60.47	18,900	23,622	26,962	23,085					21,261	25,024			1.2			
2	875.8349	1	59.70	125,805	135,411	74,198	74,735	8,960	9,560	9,240	12,200	130,608	74,467	9,260	10,720	-1.7	1.0	-2.2	-1.1
3	925.3800	4	65.85	490,321	457,620	297,366	360,063	45,100	39,520	31,524	39,361	473,971	328,715	42,310	35,443	-1.4	-1.4	-1.7	-1.5
4	929.4432	3	77.11	641,693	607,442	577,585	608,136					624,568	592,861			-1.0			
4	949.4348	1	79.14	20,000	20,000	356,937	319,947					20,000	338,442			17.6			
3	614.9401	2	58.71	133,190	167,451	59,955	46,910					150,321	53,433			-2.7			
2	864.8128	1	68.21	868,823	664,521	814,250	661,043	33,400	29,983	65,083	45,743	766,672	737,647	31,692	55,413	1.0	1.5	-3.8	-2.1
2	1109.0148	1	76.27	20,000	20,000	153,519	170,767					20,000	162,143			8.5			
2	995.4457	2	78.11	23,800	29,800	265,161	349,538					26,800	307,350			12.0			
2	603.2838	1	63.78	57,577	71,759	67,783	62,098					64,668	64,941			1.1			
3	915.7232	1	74.14	401,156	441,185	211,017	249,864	28,700				421,171	230,441	28,700	4,000	-1.8	-8.3	-2.3	-9.2
2	830.8720	1	56.75	6,384	8,895	9,074	6,459					7,640	7,767			1.1			
2	830.8720	1	56.29	11,700	8,890	9,070	6,460					10,295	7,765			-1.3			
3	1140.5466	2	87.60	160,655	148,000	266,576	197,323					154,328	231,950			1.6			
Adhesion or extracellular matrix protein																			
3	1026.1530	1	78.54	405,665	319,367	373,613	384,634	199,000	103,197	193,494	104,160	362,516	379,124	151,099	148,827	1.1	-1.2	2.7	2.5
3	1026.1530	1	78.67	405,665	319,367	373,613	384,634	198,798	103,197	193,494	104,160	362,516	379,124	150,998	148,827	1.1	-1.2	2.7	2.5
Autophagy																			
3	945.4451	1	76.11	638,000	395,000	457,000	334,000	250,000	215,000	142,000	119,000	515,500	395,500	232,500	130,500	-1.3	-2.1	2.9	2.1
Calcium-binding protein																			
3	612.2839	2	68.10	371,851	315,506	818,452	784,648					343,679	801,550			2.4			
Chaperone																			
2	620.7785	1	66.59	204,889	244,000	233,230	254,988	21,832	23,066	21,674	19,700	224,445	244,109	22,449	20,687	1.1	-1.3	-1.6	-1.9
3	901.0557	1	58.37	23,408	40,760	12,398	17,059					32,084	14,729			-2.1			
3	670.6006	1	59.98	100,392	79,601	67,344	85,241					89,997	76,293			-1.1			
Chromatin, DNA-binding, DNA repair or DNA replication protein																			
3	437.8867	1	58.27	12,900	28,539	27,647	21,642					20,720	24,645			1.2			
2	673.3074	1	63.27	88,377	78,425	66,213	68,364	13,041	14,390	27,532	10,298	83,401	67,289	13,716	18,915	-1.2	1.2	1.1	1.8
2	673.3074	1	63.28	88,400	78,400	66,200	68,400	13,000	14,400	27,500	10,300	83,400	67,300	13,700	18,900	-1.2	1.2	1.1	1.8
3	530.2518	1	61.17	181,273	173,804	140,014	152,912	108,000	100,813	101,498	33,532	177,539	146,463	104,407	67,515	-1.2	-1.8	3.8	2.9
3	449.2074	5	63.31	115,279	122,837	130,753	96,914	41,500	34,645	95,444	30,462	119,058	113,834	38,073	62,953	-1.0	1.4	2.1	3.5
2	673.3074	1	63.59	654,775	661,262	640,448	584,582	148,000	196,369	210,327	144,083	658,019	612,515	172,185	177,205	-1.0	-1.1	1.7	1.8
2	630.7972	1	70.39	313,000	429,000	363,070	405,000	111,188	86,100	195,000	141,000	371,000	384,035	98,644	168,000	1.1	1.5	1.7	2.7
3	763.7224	1	73.20	9,575,691	7,360,000	3,435,489	3,804,198	7,474,936	9,434,047	6,420,000	5,178,616	8,467,846	3,619,844	8,454,492	5,799,308	-2.2	-1.7	6.4	10.1
3	875.7231	1	70.08	252,000	255,000	269,000	249,000	38,100	50,700	66,100	52,200	253,500	259,000	44,400	59,150	1.1	1.2	1.1	1.4
3	918.4214	2	68.17	225,000	332,357	174,000	206,000	37,000	40,835	21,351	20,233	278,679	190,000	38,918	20,792	-1.4	-2.2	-1.1	-1.5
Cytoskeletal protein																			
3	607.9718	1	57.41	15,868	12,120	7,785	13,383					13,994	10,584			-1.3			
2	668.2950	1	54.73	12,500	9,410	12,900	13,600					10,955	13,250			1.3			
2	722.8509	1	55.92	6,430	10,400	8,570	18,200					8,415	13,385			1.7			
Enzyme, misc.																			
2	650.3321	1	61.04	387,473	383,159	11,840,927	13,990,646	50,434	60,217	372,000	293,000	385,316	12,915,787	55,326	332,500	34.9	5.2	-1.1	-6.2
2	670.2787	1	61.00	55,494	65,551	76,416	98,922			23,300	8,940	60,523	87,669	4,000	16,120	1.5	3.5	-2.3	1.2