

Appendix 1. Data obtained during differentiation

Gene	Sia⁺	Sia⁻	Fold change
B-cell CLL/lymphoma 6	1.24	1.01	0.23
CCAAT/enhancer binding protein (C/EBP), beta	3.01	1.01	2.00
CCAAT/enhancer binding protein (C/EBP), alpha	0.82	1.05	-0.23
CD14 molecule	7.12	2.86	4.26
CD1a molecule	-32.23	0.56	-32.79
CD1b molecule	-44.91	0.54	-45.45
CD1c molecule	-61.23	-2.35	-58.88
CD1d molecule	1.09	1.54	-0.45
CD2 molecule	-2.88	1.30	-4.17
CD209 molecule	0.94	1.16	-0.22
CD28 molecule	-80.13	-2.09	-78.04
CD4 molecule	-9.33	0.78	-10.11
CD40 ligand	0.81	1.66	-0.85
CD40 molecule	0.87	1.05	-0.18
CD44 molecule (Indian blood group)	2.02	1.20	0.82
CD74 molecule, major histocompatibility complex, class II invariant chain	0.57	0.96	-0.40
CD80 molecule	-2.28	1.08	-3.35
CD86 molecule	1.52	1.22	0.30
CD8a molecule	0.81	-2.49	3.30
Cell division cycle 42 (GTP binding protein, 25kDa)	1.04	1.06	-0.02
Chemokine (C-C motif) ligand 11	4.57	1.39	3.18
Chemokine (C-C motif) ligand 13	-52.50	0.89	-53.39
Chemokine (C-C motif) ligand 16	1.32	1.05	0.27
Chemokine (C-C motif) ligand 17	-5.48	-2.35	-3.13
Chemokine (C-C motif) ligand 19	13.77	2.49	11.28
Chemokine (C-C motif) ligand 2	-3.25	1.72	-4.97
Chemokine (C-C motif) ligand 21	1.27	0.88	0.38
Chemokine (C-C motif) ligand 22	-2.02	0.50	-2.53
Chemokine (C-C motif) ligand 23	-6.77	0.66	-7.43
Chemokine (C-C motif) ligand 24	-4.35	1.29	-5.65
Chemokine (C-C motif) ligand 3	-10.94	0.82	-11.76
Chemokine (C-C motif) ligand 4	-24.88	0.81	-25.69
Chemokine (C-C motif) ligand 5	11.03	0.55	10.48
Chemokine (C-C motif) ligand 7	0.83	0.71	0.12
Chemokine (C-C motif) ligand 8	1.32	1.05	0.27
Chemokine (C-C motif) receptor 1	0.55	0.92	-0.36
Chemokine (C-C motif) receptor 2	-3.10	0.71	-3.80
Chemokine (C-C motif) receptor 3	0.87	-1.17	2.04
Chemokine (C-C motif) receptor 4	1.45	0.69	0.76
Chemokine (C-C motif) receptor 5	0.72	1.17	-0.45
Chemokine (C-C motif) receptor 7	2.52	0.73	1.79
Chemokine (C-X-C motif) ligand 1	12.36	3.69	8.67
Chemokine (C-X-C motif) ligand 10	1.76	1.05	0.71
Chemokine (C-X-C motif) ligand 2	4.33	3.44	0.89
Chemokine (C-X-C motif) ligand 3	5.26	2.70	2.56
Chemokine (C-X-C motif) ligand 5	2.37	1.14	1.23
Chemokine (C-X-C motif) ligand 6	1.27	0.88	0.38

Chemokine (C-X-C motif) ligand 9	0.94	0.61	0.34
Chemokine (C-X-C motif) receptor 1	-3.78	0.89	-4.67
Chemokine (C-X-C motif) receptor 2	-11.60	0.80	-12.40
Chemokine (C-X-C motif) receptor 4	1.85	1.13	0.72
Chemokine(C-X-C motif) ligand 12	1.38	1.22	0.16
Colony stimulating factor 1	1.27	0.74	0.53
Colony stimulating factor 1 receptor	0.68	1.01	-0.33
Colony stimulating factor 2 (granulocyte-macrophage)	3.17	7.02	-3.84
Complement component 3	20.31	1.68	18.63
Complement component 3a receptor 1	-3.96	0.83	-4.80
C-reactive protein, pentraxin-related	1.27	0.88	0.38
C-type lectin domain family 4, member C	-12.52	1.22	-13.74
Cyclin dependent kinase inhibitor 1A (p21, Cip1)	1.62	0.83	0.80
Fas ligand (TNF superfamily, member 6)	1.62	1.13	0.50
FBJ murine osteosarcoma viral oncogene homologue	1.35	1.17	0.18
Fc fragment of IgE, high affinity I, receptor for, alpha polypeptide	-18.37	0.62	-19.00
Fc fragment of IgE, low affinity II, receptor for, CD23	1.33	1.32	0.02
Fc fragment of IgG, high affinity Ia, receptor (CD64)	1.91	1.18	0.73
FMS-related tyrosine kinase 3	3.54	1.25	2.29
FMS-related tyrosine kinase 3 ligand	2.30	1.62	0.68
Integrin, alpha M (complement component 3 receptor 3 subunit)	0.77	1.09	-0.32
Integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)	0.90	1.08	-0.19
Intercellular adhesion molecule 1	0.76	1.03	-0.27
Intercellular adhesion molecule 2	-2.67	0.87	-3.54
interferon regulatory factor 7	3.55	1.66	1.89
interferon regulatory factor 8	2.46	1.51	0.95
Interferon, gamma	1.32	1.05	0.27
Interleukin 1 receptor accessory protein	0.58	1.00	-0.42
Interleukin 1 receptor antagonist	0.64	-2.10	2.74
Interleukin 1 receptor, type 1	0.75	1.57	-0.82
Interleukin 1, beta	0.67	0.91	-0.24
Interleukin 1, alpha	1.10	0.95	0.14
Interleukin 10	-4.84	1.05	-5.88
Interleukin 10 receptor, beta	1.13	1.03	0.10
Interleukin 12A	5.42	7.02	-1.60
Interleukin 12B	-3.52	0.53	-4.05
Interleukin 15	5.40	1.90	3.50
Interleukin 16	-3.31	1.11	-4.42
Interleukin 17A	1.27	0.88	0.38
Interleukin 18 (Interferon-gamma-inducing factor)	0.66	1.13	-0.47
Interleukin 2	1.38	1.22	0.16
Interleukin 22	0.68	1.25	-0.57
Interleukin 23 receptor	10.99	3.15	7.84
Interleukin 23, alpha subunit p19	2.37	2.14	0.24
Interleukin 5 (colony stimulating factor, eosinophil)	1.74	2.27	-0.53
Interleukin 6 (Interferon, beta 2)	3.09	4.96	-1.87
Interleukin 6 receptor	0.87	0.97	-0.10
Interleukin 8	3.33	1.94	1.39
Interleukin 9	0.72	0.80	-0.09
Kininogen 1	0.74	3.07	-2.33
Low density lipoprotein-related protein 1 (alpha-2-macroglobin receptor)	1.55	1.41	0.14
Lymphocyte antigen 96	1.35	1.33	0.02
Lymphotoxin alpha (TNF superfamily, member 1)	3.17	3.61	-0.44
Lymphotoxin beta (TNF superfamily, member 3)	1.92	1.58	0.34

Macrophage migration inhibitory factor (glycosylation-inhibiting factor)	0.70	0.88	-0.18
Major histocompatibility complex, class I, A	1.95	1.30	0.65
Major histocompatibility complex, class II, DM alpha	1.02	1.38	-0.36
Major histocompatibility complex, class II, DP alpha 1	0.60	1.24	-0.64
Myeloid differentiation primary response gene (88)	2.57	1.23	1.34
Nitric oxide synthetase 2, inducible	3.50	0.88	2.61
Nuclear factor of kappa light polypeptide gene enhancer in B-cells	1.11	1.24	-0.14
Nuclear receptor subfamily 3, group c, member 1	1.92	1.59	0.34
Prostaglandin-endoperoxide synthetase 2	0.81	0.76	0.04
protein tyrosine phosphatase, receptor type C	1.45	1.52	-0.08
Ras-related C3 botulinum toxin substrate 1	1.80	1.18	0.62
Receptor-interacting serine-threonine kinase 2	1.60	1.05	0.55
Selectin E	1.27	0.88	0.38
Signal transducer and activation of transcription 3 (acute-phase response factor)	1.34	1.18	0.17
TAP binding protein (tapasin)	1.06	0.90	0.16
Thrombospondin 1	17.12	2.16	14.96
Toll interacting protein	1.27	1.05	0.22
Toll-interleukin-1 receptor domain containing adaptor protein	2.12	1.43	0.69
Toll-like receptor 1	1.33	0.94	0.39
Toll-like receptor 2	0.69	1.36	-0.67
Toll-like receptor 3	-3.62	0.83	-4.44
Toll-like receptor 4	1.64	1.30	0.33
Toll-like receptor 5	0.91	1.55	-0.64
Toll-like receptor 6	0.73	0.95	-0.22
Toll-like receptor 7	-0.47	2.10	-2.56
Toll-like receptor 9	2.31	2.46	-0.15
Transforming growth factor, beta 1	1.25	1.12	0.13
Transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)	1.11	1.09	0.02
Tumor necrosis factor	2.24	1.90	0.34
Tumor necrosis factor (ligand) superfamily, member 11	5.75	1.22	4.54
Tumor necrosis factor (ligand) superfamily, member 14	2.92	0.75	2.17
Vascular cell adhesion molecule	-16.15	0.57	-16.72
V-erb-b2 erythroblastic leukemia viral oncogene homolog 2	3.66	1.78	1.89
V-rel reticuloendotheliosis viral oncogene homolog A	1.32	1.20	0.13
V-rel reticuloendotheliosis viral oncogene homolog B	1.05	1.33	-0.28
V-yes-1 Yamaguchi sarcoma viral related oncogene homolog	1.49	1.11	0.38