

Additional file 1: Gene expression signature for GC-sensitivity in CEM cells.										
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GC-response				Sensitive	Sensitive	Sensitive	Sensitive	Sensitive	Resensitized	Resistant
Type of lymphoid cell				Thymocyte	ALL	ALL	ALL	ALL	ALL	ALL
Name	Description	Network	Opp. R	C57/BL6 Dx	C7-14 Dx	C7-14 Z	C1-6 Dx	C1-15 Z	C1-15 Dx+F	C1-15 Dx
ABCE1	ATP-binding cassette, sub-family E (OABP), member 1		•	1.3	-1.5	-2.0	-1.7	-1.3	-1.2	*
AK2	adenylate kinase 2	♦		*	-1.4	-1.7	-1.6	-1.6	-1.4	*
ARHGEF7	Rho guanine nucleotide exchange factor (GEF) 7	♦	•	-1.3	1.3	1.4	1.3	1.3	1.8	1.2
BCL2L11	BCL2-like 11 (apoptosis facilitator)	♦		1.8	3.1	14.5	5.9	1.3	1.8	*
BTG1	B-cell translocation gene 1, anti-proliferative			*	9.3	9.1	4.4	3.3	1.7	1.9
BTG2	BTG family, member 2		•	-1.2	3.1	2.9	2.3	1.3	1.3	1.4
CALR	calreticulin	♦		*	-1.9	-1.7	-1.6	-1.4	-1.6	-1.3
CCNG2	cyclin G2		•	-1.3	2.3	1.6	1.3	1.3	1.4	1.3
CD53	CD53 antigen			*	3.1	3.4	3.2	1.5	1.8	1.4
CDC6	CDC6 cell division cycle 6 homolog (S. cerevisiae)	♦		-1.2	-1.3	-1.2	-1.5	-1.3	-1.3	-1.3
CHP	calcium binding protein P22		•	-1.7	1.2	1.2	1.3	1.5	1.2	*
CXCR4	chemokine (C-X-C motif) receptor 4			1.3	1.3	1.3	1.5	1.5	3.1	1.3
DDIT4	DNA-damage-inducible transcript 4	♦		2.9	4.4	3.4	2.5	1.2	4.4	1.5
DHODH	dihydroorotate dehydrogenase		•	1.3	-1.9	-2.4	-2.0	-1.5	-1.2	-1.3
DKC1	dyskeratosis congenita 1, dyskerin			*	-1.7	-2.3	-1.3	-1.4	-1.2	*
DSCR1	Down syndrome critical region gene 1			1.3	5.0	8.2	4.8	1.4	1.6	*
EIF3S9	eukaryotic translation initiation factor 3, subunit 9 eta, 116kDa			*	-1.5	-2.2	-1.3	-1.2	-1.2	*
ENO2	enolase 2 (gamma, neuronal)			*	-1.2	-1.4	-1.5	-2.0	-1.5	-1.2
FADS1	fatty acid desaturase 1			*	-1.5	-4.1	-1.9	-1.9	-1.3	-1.3
FBN1	fibrillin 1			*	1.6	1.2	1.2	1.2	1.4	*
FGFR1	fibroblast growth factor receptor 1	♦		*	1.6	3.1	1.4	1.7	1.7	1.3
FKBP4	FK506 binding protein 4, 59kDa	♦	•	1.3	-1.9	-2.1	-1.3	-1.5	-1.6	*
FKBP5	FK506 binding protein 5	♦		1.7	6.6	11.2	4.4	3.8	2.9	2.8
FOXK2	forkhead box K2			*	-1.3	-1.4	-1.4	-1.2	-1.3	*
GLB1	galactosidase, beta 1			*	1.4	2.3	1.9	1.5	1.4	1.3
GLRX	glutaredoxin (thioltransferase)			*	3.4	5.2	2.1	1.4	1.2	1.4
GPR125	G protein-coupled receptor 125			*	-1.8	-1.5	-1.6	-1.4	-1.3	*
GRAP2	GRB2-related adaptor protein 2			*	2.4	2.9	3.6	2.8	2.1	2.7
GSK3B	glycogen synthase kinase 3 beta			*	1.6	1.9	1.2	1.8	1.2	-1.2
GTPBP6	GTP binding protein 6 (putative)			*	-1.4	-1.8	-1.3	-1.2	-1.4	*
HDAC1	histone deacetylase 1	♦		-1.6	-1.4	-1.2	-1.2	-1.3	-1.2	-1.3
HRAS	v-Ha-ras Harvey rat sarcoma viral oncogene homolog	♦		*	-1.3	-1.4	-1.3	-1.4	-1.4	*
HSPE1	heat shock 10kDa protein 1 (chaperonin 10)		•	1.3	-1.8	-2.1	-2.1	-1.5	-1.3	*

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Name	Description	Network	Opp. R	C57/BL6 Dx	C7-14 Dx	C7-14 Z	C1-6 Dx	C1-15 Z	C1-15 Dx+F	C1-15 Dx
ID1	inhibitor of DNA binding 1, dominant negative helix-loop-helix protein	◆		*	-2.6	-1.7	-1.2	-1.9	-1.6	-1.4
IDH3A	isocitrate dehydrogenase 3 (NAD+) alpha			*	-1.5	-1.3	-1.5	-1.2	-1.3	*
IDS	iduronate 2-sulfatase (Hunter syndrome)			*	1.4	1.9	1.2	1.5	1.4	1.3
IFRD1	interferon-related developmental regulator 1	◆		-1.3	-1.8	-1.2	-1.6	-1.6	-1.3	*
IL32	interleukin 32			*	-1.5	-1.9	-1.9	-1.4	-1.6	*
IL10RB	interleukin 10 receptor, beta			*	1.6	1.9	1.4	1.6	1.8	-1.2
IL7R	interleukin 7 receptor	◆		1.4	8.3	18.0	6.3	1.4	2.5	*
ILF3	interleukin enhancer binding factor 3, 90kDa			*	-1.3	-1.2	-1.3	-1.2	-1.4	*
IMPDH1	IMP (inosine monophosphate) dehydrogenase 1			*	-1.6	-1.9	-1.4	-1.3	-1.4	*
IQGAP2	IQ motif containing GTPase activating protein 2			*	1.4	1.9	1.9	1.8	1.9	1.3
ITGA6	integrin, alpha 6	◆		*	5.0	10.2	2.4	6.6	2.8	1.6
KIAA0020	KIAA0020			*	-1.7	-3.6	-2.2	-1.2	-1.3	*
LRPPRC	leucine-rich PPR-motif containing			*	-1.8	-1.4	-1.7	-1.3	-1.3	-1.3
MAP4	microtubule-associated protein 4	◆		-1.6	-1.3	-1.8	-1.7	-1.3	-1.3	*
MARS	methionine-tRNA synthetase			*	-1.5	-1.6	-1.5	-1.2	-1.3	*
MEP50	WD repeat domain 77			*	-1.7	-1.4	-1.8	-1.5	-1.3	*
MLX	MAX-like protein X			*	-1.3	-1.2	-1.5	-1.2	-1.3	*
MPI	mannose phosphate isomerase			*	-1.3	-1.7	-1.4	-1.4	-1.2	*
MT1A	metallothionein 1A (functional)	◆		*	1.3	1.3	2.2	1.4	1.4	*
MT1B	metallothionein 1B (functional)			*	1.3	1.5	1.6	1.2	1.5	*
MT1X	metallothionein 1X			*	1.4	2.1	2.2	1.3	1.4	*
MTHFD1	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1	◆		*	-1.4	-1.9	-1.5	-1.5	-1.2	*
MYC	v-myc myelocytomatosis viral oncogene homolog (avian)	◆		-2.2	-3.8	-4.6	-3.6	-1.4	-2.2	*
NFATC3	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3			*	-1.4	-1.3	-1.9	-1.8	-1.6	*
NFIL3	nuclear factor, interleukin 3 regulated			6.4	6.0	7.4	3.6	1.6	2.1	*
NFKBIA	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	◆		1.5	3.0	3.4	2.8	1.9	1.5	1.3
NME1	non-metastatic cells 1, protein (NM23A) expressed in	◆		*	-1.5	-2.2	-1.6	-1.4	-1.3	*
NR3C1	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)	◆	•	-1.7	4.2	6.6	2.1	1.7	1.6	*
OGT	O-linked N-acetylglucosamine (GlcNAc) transferase	◆	•	-1.5	1.3	1.7	2.0	1.6	1.3	*
PA2G4	proliferation-associated 2G4, 38kDa		•	1.2	-1.7	-1.9	-1.7	-1.3	-1.2	*
PARD3	par-3 partitioning defective 3 homolog (C. elegans)			*	1.6	1.7	1.4	1.3	1.4	*
PIAS2	protein inhibitor of activated STAT, 2	◆	•	-2.3	1.2	1.4	1.5	2.0	1.3	*
PIK3R1	phosphoinositide-3-kinase, regulatory subunit 1 (p85 alpha)	◆		*	2.5	2.4	1.7	2.0	1.9	*

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PPP2R5C	protein phosphatase 2, regulatory subunit B (B56), gamma isoform			*	1.5	1.7	1.5	1.4	1.2	1.2
PRG1	proteoglycan 1, secretory granule			1.6	2.6	4.5	3.2	1.2	1.9	1.6
PTPN2	protein tyrosine phosphatase, non-receptor type 2			*	-1.3	-1.3	-2.1	-1.2	-1.3	*
RABGGTB	Rab geranylgeranyltransferase, beta subunit			-1.2	-1.3	-1.3	-1.7	-1.8	-1.3	-1.2
RAG1	recombination activating gene 1			-1.3	-3.6	-3.2	-4.2	-1.3	-3.0	*
RAPGEF2	Rap guanine nucleotide exchange factor (GEF) 2			*	1.7	1.7	1.4	1.3	1.3	*
RBMS1	RNA binding motif, single stranded interacting protein 1	◆		*	1.4	2.0	1.7	1.6	1.5	1.6
RRS1	RRS1 ribosome biogenesis regulator homolog (S. cerevisiae)			*	-1.9	-2.7	-1.9	-1.6	-1.2	-1.3
SCARB1	scavenger receptor class B, member 1	◆		*	-1.7	-2.2	-1.2	-1.5	-1.2	-1.3
SMN1	survival of motor neuron 1, telomeric			*	-1.6	-1.4	-1.8	-1.4	-1.3	*
SMPD1	sphingomyelin phosphodiesterase 1, acid lysosomal (acid sphingomyelinase)			*	2.3	2.8	1.3	1.3	1.2	1.2
SRM	spermidine synthase	◆		*	-1.8	-3.3	-1.7	-1.4	-1.4	*
TAGLN2	transgelin 2	◆		*	-1.4	-2.0	-1.3	-1.2	-1.2	*
TARBP1	Tar (HIV-1) RNA binding protein 1			*	-1.6	-1.6	-1.8	-1.6	-1.3	*
TFPI	tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor)			*	3.1	5.4	1.9	2.0	1.8	1.7
TMEM123	transmembrane protein 123			*	1.3	1.3	1.3	1.4	1.2	1.2
TRAF3IP2	TRAF3 interacting protein 2	◆		*	1.6	2.1	1.8	1.5	1.4	1.3
TRAM2	translocation associated membrane protein 2			*	1.5	1.5	1.7	1.3	1.4	*
TRIP13	thyroid hormone receptor interactor 13			*	-1.5	-1.4	-1.6	-1.2	-1.3	*
TSC22D3	TSC22 domain family, member 3	◆		*	33.1	74.0	20.4	7.4	14.3	5.0
TUBA1	tubulin, alpha 1			1.3	10.4	8.9	3.0	1.5	2.0	1.3
TXNIP	thioredoxin interacting protein	◆		2.6	2.8	3.4	3.7	1.4	2.0	1.2
UBE2M	ubiquitin-conjugating enzyme E2M (UBC12 homolog, yeast)			*	-1.4	-1.3	-1.3	-1.4	-1.3	-1.3
UBE2S	ubiquitin-conjugating enzyme E2S	◆	•	1.5	-1.6	-1.6	-1.3	-1.6	-1.3	*
VCL	vinculin	◆	•	-1.3	1.8	1.6	1.9	1.3	1.5	*
WFS1	Wolfram syndrome 1 (wolframin)			*	2.6	2.2	2.8	1.5	1.8	1.3
XPOT	exportin, tRNA (nuclear export receptor for tRNAs)			-1.3	-1.4	-1.8	-1.5	-1.4	-1.2	*
YAF2	YY1 associated factor 2	◆		*	1.8	2.4	1.6	1.7	1.3	1.6
ZFP36L2	zinc finger protein 36, C3H type-like 2			3.3	3.0	2.5	2.5	3.3	10.1	1.9
ZNF259	zinc finger protein 259			*	-1.4	-1.4	-1.8	-1.3	-1.2	*