

Gene Name	Capture #	Gene Abbreviation	RefSeq	Dog	Distance (bp)
MYST histone acetyltransferase (monocytic leukemia) 4	1	MYST4	NM_012330	G197	5122
annexin A1	4	ANXA1	NM_000700	G069	8641
runt-related transcription factor 1 (acute myeloid leukemia 1; aml1 oncogene)	13.5	RUNX1	NM_001754	G179	22598
tec protein tyrosine kinase	0.25	TEC	NM_003215	G197	23119
runt-related transcription factor 1 (acute myeloid leukemia 1; aml1 oncogene)	1.5	RUNX1	NM_001754	G069	24777
growth arrest-specific 7	1	GAS7	NM_201432	G179	46801
mutL homolog 1 colon cancer nonpolyposis type 2 (E. coli)	1	MLH1	NM_000249	G069	53092
chromodomain helicase DNA binding protein 3	0.25	CHD3	NM_001005273	G069	53942
MADS box transcription enhancer factor 2 polypeptide C (myocyte enhancer factor 2C)	0.75	MEF2C	NM_002397	G154	57975
PC4 and SFRS1 interacting protein 1	0.5	PSIP1	NM_021144	G154	69973
SWAP-70 protein	1	SWAP70	NM_015055	G069	73256
LIM and SH3 protein 1	0.5	LASP1	NM_006148	G197	74041
LIM and SH3 protein 1	1	LASP1	NM_006148	G179	77266
MADS box transcription enhancer factor 2 polypeptide C (myocyte enhancer factor 2C)	0.25	MEF2C	NM_002397	G197	84035
high mobility group AT-hook 2	4	HMGA2	NM_001015886	G197	86019
histone 4 H4	1	HIST1H4I	NM_003495	G179	89866
Fanconi anemia complementation group D2	2	FANCD2	NM_001018115	G154	106298
stromal antigen 1	5	STAG1	NM_005862	G197	114107
myelodysplasia syndrome 1	1	MDS1	NM_004991	G069	123367
cut-like 1 CCAAT displacement protein (Drosophila)	1	CUTL1	NM_001913	G154	127902
potassium channel tetramerisation domain containing 2	15.25	KCTD2	NM_015353	G069	142652
cyclin D2	3	CCND2	NM_001759	G179	142774
signal transducer and activator of transcription 5A S-antigen; retina and pineal gland (arrestin)	2	STAT5A	NM_003152	G179	150105
kinase insert domain receptor (a type III receptor tyrosine kinase)	7	SAG	NM_000541	G154	180391
RAR-related orphan receptor C	3	KDR	NM_002253	G179	188044
RAR-related orphan receptor C	0.5	RORC	NM_005060	G069	197695
chromosome 14 open reading frame 43	6	C14orf43	NM_194278	G179	235520
solute carrier family 27 (fatty acid transporter) member 1	1	SLC27A1	NM_198580	G154	237369
xeroderma pigmentosum complementation group A	9	XPA	NM_000380	G154	260058
myeloid leukemia factor 1	4	MLF1	NM_022443	G069	270434
Oxysterol binding protein-like 3	2	OSBPL3	NM_015550	G179	273561
FIP1 like 1 (S. cerevisiae)	0.75	FIP1L1	NM_030917	G154	298555
chemokine (C-C motif) receptor 5	7	EEF1A1	NM_001402	G154	369781
SRY (sex determining region Y)-box 4	47	SOX4	NM_003107	G197	381600
Forkhead box O3A	0.25	FOXO3A	NM_201559	G069	396917
nascent-polypeptide-associated complex alpha polypeptide	1	NACA	NM_005594	G069	417905
Thousand and one amino acid protein kinase	3	TAOK2	NM_004783	G179	427359
Lymphoid nuclear protein related to AF4	1	AFF3	NM_001025108	G197	502707
non-POU domain containing octamer-binding	2.5	NONO	NM_007363	G069	509564
fibroblast growth factor receptor 1 (fms-related tyrosine kinase 2 Pfeiffer syndrome)	0.5	FGFR1	NM_000604	G069	522199
homeo box A7	5	HOXA7	NM_006896	G154	528631
retinoic acid receptor alpha	1	NPM1	NM_002520	G197	532435
damage-specific DNA binding protein 2 48kDa	1	DDB2	NM_000107	G197	548530
tec protein tyrosine kinase	4.5	TEC	NM_003215	G179	557656
calcium/calmodulin-dependent protein kinase kinase 2 beta	2	CAMKK2	NM_006549	G179	604594
human immunodeficiency virus type 1 enhancer binding protein 1	1	HIVEP1	NM_002114	G197	631700
mutL homolog 1 colon cancer nonpolyposis type 2 (E. coli)	0.25	MLH1	NM_000249	G069	645073
likely ortholog of mouse gene trap locus 3	7.5	GTL3	NM_013242	G197	747194
Kruppel-like factor 3 (basic)	1	KLF3	NM_016531	G197	773673
DnaJ (Hsp40) homolog subfamily C member 9	18.25	DNAJC9	NM_015190	G154	806608

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clathrin heavy polypeptide-like 1	2	CLTCL1	NM_001835	G179	828036
retinoic acid receptor alpha	1	NPM1	NM_002520	G179	854528
hypothetical protein MGC19780	1	ALG14	NM_144988	G069	978947
nuclear receptor coactivator 2	10.25	NCOA2	NM_006540	G197	1008512
disrupter of silencing 10	1	SAS10	NM_020368	G154	1035632
clathrin heavy polypeptide-like 1	25	CLTCL1	NM_001835	G069	1080769
smoothened homolog (Drosophila)	15.75	SMO	NM_005631	G069	1135723
heat shock 90kDa protein 1 beta	0.25	HSPCB	NM_007355	G154	1162536
heat shock 90kDa protein 1 beta	1	HSPCB	NM_007355	G154	1190899
clathrin heavy polypeptide-like 1	4	CLTCL1	NM_001835	G197	1271834
succinate dehydrogenase complex subunit C integral membrane protein 15kDa	1	SDHC	NM_001035511	G069	1289844
runt-related transcription factor 2	2.5	RUNX2	NM_001015051	G069	1300612
mutS homolog 2 colon cancer nonpolyposis type 1 (E. coli)	2	MSH2	NM_000251	G154	1360059
lipoma HMGIC fusion partner	1.75	LHFP	NM_005780	G197	1362980
interleukin 17 receptor B	1	IL17RB	NM_018725	G179	1375525
Meis1 myeloid ecotropic viral integration site 1 homolog (mouse)	1	MEIS1	NM_002398	G179	1428841
heparanase	0.5	HPSE	NM_006665	G069	1462342
oxysterol binding protein-like 3	1.25	OSBPL3	NM_015550	G197	1488132
lymphocyte cytosolic protein 1 (L-plastin)	13	LCP1	NM_002298	G154	1567085
smoothened homolog (Drosophila)	2	SMO	NM_005631	G179	1567178
nucleoporin 98kDa	1	NUP98	NM_016320	G197	1618391
B-cell CLL/lymphoma 11A (zinc finger protein)	2	BCL11A	NM_018014	G179	1658386
v-myc myelocytomatosis viral oncogene homolog (avian)	3	MYC	NM_002467	G179	1796231
insulin-like growth factor 1 receptor	21.5	IGF1R	NM_000875	G154	1852262
chemokine (C-C motif) receptor 5	0.5	EEF1A1	NM_001402	G069	1852414
insulin-like growth factor 1 receptor	17	IGF1R	NM_000875	G154	1852467
ets variant gene 4 (E1A enhancer binding protein E1AF)	1	ETV4	NM_001986	G154	1916119
pleiomorphic adenoma gene 1	1.25	PLAG1	NM_002655	G197	1927276
Kruppel-like factor 6	4	KLF6	NM_001300	G069	2016264
interleukin 7	0.75	IL7	NM_000880	G069	2119607
high mobility group AT-hook 1	1	HMGA1	NM_002131	G197	2133480
oxysterol binding protein-like 3	4	OSBPL3	NM_015550	G069	2145546
stromal antigen 1	3	STAG1	NM_005862	G069	2205726
GNAS complex locus	1	GNAS	NM_000516	G197	2272606
succinate dehydrogenase complex subunit D integral membrane protein	1	SDHD	NM_003002	G179	2305284
Werner syndrome	1	WRN	NM_000553	G069	2355959
disrupter of silencing 10	3.25	SAS10	NM_020368	G069	2368465
growth factor independent 1	1	GFI1	NM_005263	G069	2441748
chromosome 14 open reading frame 49	29	C14orf49	NM_152592	G179	2528284
BCL2-like 1	15	BCL2L1	NM_001191	G069	2534385
sialyltransferase 1 (beta-galactoside alpha-2-6- sialyltransferase)	3	ST6GAL1	NM_173216	G197	2561111
retinoic acid receptor alpha	2	ALK	NM_004304	G154	2669146
retinoic acid receptor alpha	1	ALK	NM_004304	G197	2680096
excision repair cross-complementing rodent repair deficiency complementation group 2 (xeroderma pigmentosum D)	1	ERCC2	NM_000400	G179	2750901
mature T-cell proliferation 1	1	MTCP1	NM_001018025	G179	2771781
Werner syndrome	2	WRN	NM_000553	G179	2787947
runt-related transcription factor 1 (acute myeloid leukemia 1; aml1 oncogene)	1	EVI1	NM_005241	G197	2795706
ets variant gene 1	1	ETV1	NM_004956	G154	2865499
mitogen-activated protein kinase kinase kinase 8	2	MAP3K8	NM_005204	G069	2917857
runt-related transcription factor 1 (acute myeloid leukemia 1; aml1 oncogene)	1	RUNX1	NM_001754	G197	2947788
RER1 homolog (S. cerevisiae)	1.25	RER1	NM_007033	G197	2949056
protein kinase cAMP-dependent regulatory type I alpha (tissue specific extinguisher 1)	1	PRKAR1A	NM_002734	G179	2968213
protein kinase cAMP-dependent regulatory type I alpha (tissue specific extinguisher 1)	1	PRKAR1A	NM_002734	G179	3012561

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bullous pemphigoid antigen 1 230/240kDa	2	DST	NM_015548	G154	3507985
protein kinase cAMP-dependent regulatory type I alpha (tissue specific extinguisher 1)	3.75	PRKAR1A	NM_002734	G197	3735649
related RAS viral (r-ras) oncogene homolog 2	1	RRAS2	NM_012250	G197	3747095
neuroblastoma RAS viral (v-ras) oncogene homolog	1	HRAS	NM_005343	G069	4171895
gephyrin	1	GPHN	NM_001024218	G179	4226356
KIAA0117 protein	2	RBM34	NM_015014	G197	4260194
BCL2-like 1	1	BCL2L1	NM_001191	G154	4419781
mitogen-activated protein kinase kinase kinase 8	1	MAP3K8	NM_005204	G179	4426613
transcription factor 12 (HTF4 helix-loop-helix transcription factors 4)	2	TCF12	NM_003205	G069	4577179
excision repair cross-complementing rodent repair deficiency complementation group 3 (xeroderma pigmentosum group B complementing)	0.25	ERCC3	NM_000122	G069	5442455
transcription factor 12 (HTF4 helix-loop-helix transcription factors 4)	1	TCF12	NM_003205	G179	5787597
WD repeat domain 11	2.5	BRWD2	NM_018117	G069	6033265
golgi associated PDZ and coiled-coil motif containing	2	GOPC	NM_001017408	G179	6425350
succinate dehydrogenase complex subunit C integral membrane protein 15kDa	17	SDHC	NM_001035511	G069	6822032
epidermal growth factor receptor (erythroblastic leukemia viral (v-erb-b) oncogene homolog avian)	0.5	EGFR	NM_005228	G069	7036131
suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein)	4	ST13	NM_003932	G154	7386609
succinate dehydrogenase complex subunit D integral membrane protein	1	SDHD	NM_003002	G197	8265995
cyclin-dependent kinase 4	1	CDK4	NM_000075	G197	8658851
homeo box D11	1	HOXD11	NM_021192	G197	9229585
related RAS viral (r-ras) oncogene homolog 2	0.5	RRAS2	NM_012250	G069	10148301
related RAS viral (r-ras) oncogene homolog 2	4.75	RRAS2	NM_012250	G069	10257675
Ewing sarcoma breakpoint region 1	1	EWSR1	NM_013986	G197	11023109
Ewing sarcoma breakpoint region 1	2	EWSR1	NM_013986	G179	11024003
Ewing sarcoma breakpoint region 1	4	EWSR1	NM_013986	G069	11143626

'Capture #' refers to the numbers of time a specific RIS was identified in a 96-well sequencing format (given the weight of 1) or 384-well sequencing format (given the weight of 0.25)

Shaded rows indicate top 10% of captured RIS for the after chemotherapy data set based on 'Capture #'