

Gene Name	Capture #	Gene Abbreviation	RefSeq	Dog	Distance (bp)
microtubule-associated protein RP/EB family member 2	1	MAPRE2	NM_014268	G069	1566
phosphatidylinositol binding clathrin assembly protein	1	PICALM	NM_001008660	G069	4952
Friend leukemia virus integration 1	9.75	FLI1	NM_002017	G069	9511
ribosomal protein S6 kinase 90kDa polypeptide 1	3	RPS6KA1	NM_002953	G197	18103
golgi autoantigen golgin subfamily a 5	2.25	CCDC6	NM_005436	G069	25833
growth factor independent 1	2	GFI1	NM_005263	G154	26073
LIM domain only 2 (rhombotin-like 1)	3	LMO2	NM_005574	G179	33161
protein tyrosine phosphatase receptor type- E	1	PTPRE	NM_006504	G069	33990
sushi domain containing 3	1	SUSD3	NM_145006	G069	50355
phosphatidylinositol binding clathrin assembly protein	6	PICALM	NM_001008660	G197	65072
actin beta	1	ACTB	NM_001101	G069	68593
CREB binding protein (Rubinstein-Taybi syndrome)	10.75	CREBBP	NM_004380	G197	74586
interferon regulatory factor 1	1	IRF1	NM_002198	G069	77127
lymphocyte cytosolic protein 1 (L-plastin)	1	LCP1	NM_002298	G197	80509
high-mobility group box 1	2	HMGB1	NM_002128	G179	87495
histone 4 H4	3	HIST1H4I	NM_003495	G179	87889
retinoblastoma 1 (including osteosarcoma)	20	RB1	NM_000321	G179	122710
myelodysplasia syndrome 1	0.5	MDS1	NM_004991	G069	123367
interleukin 6 signal transducer (gp130 oncostatin M receptor)	1	IL6ST	NM_002184	G154	123893
signal peptide peptidase 3	3.5	SPPL3	NM_139015	G069	130574
potassium channel tetramerisation domain containing 2	1	KCTD2	NM_015353	G069	142652
retinoic acid receptor alpha	12.5	RARA	NM_000964	G197	151044
lymphocyte cytosolic protein 1 (L-plastin)	1	LCP1	NM_002298	G069	158213
cysteine-rich protein 2	3	CRIP2	NM_001312	G197	163593
excision repair cross-complementing rodent repair deficiency complementation group 2 (xeroderma pigmentosum D)	13	ERCC2	NM_000400	G197	167563
B-cell CLL/lymphoma 2	1	BCL2	NM_000633	G069	169681
S-antigen; retina and pineal gland (arrestin)	4	SAG	NM_000541	G154	180391
B lymphoma Mo-MLV insertion region (mouse)	1	PCGF4	NM_005180	G069	182469
kinase insert domain receptor (a type III receptor tyrosine kinase)	1	KDR	NM_002253	G179	188044
runt-related transcription factor 1 (acute myeloid leukemia 1; aml1 oncogene)	1.25	EVI1	NM_005241	G069	191136
frequently rearranged in advanced T-cell lymphomas	0.5	FRAT1	NM_005479	G179	192821
SRY (sex determining region Y)-box 4	2	SOX4	NM_003107	G154	200055
microtubule-associated protein RP/EB family member 2	6	MAPRE2	NM_014268	G154	211987
high mobility group AT-hook 2	1	HMGA2	NM_001015886	G179	216464
thousand and one amino acid protein kinase	2	TAKO2	NM_004783	G179	240950
Ewing sarcoma breakpoint region 1	2	EWSR1	NM_013986	G069	247098
mastermind-like 2 (Drosophila)	2	MAML2	NM_032427	G197	251113
nuclear receptor binding SET domain protein 1	1.25	NSD1	NM_022455	G069	252194
potassium channel tetramerisation domain containing 2	12.25	KCTD2	NM_015353	G069	256554
xeroderma pigmentosum complementation group A	13	XPA	NM_000380	G154	260058
suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein)	1	ST13	NM_003932	G197	274973
solute carrier family 9 (sodium/hydrogen exchanger) isoform 9	1	SLC9A9	NM_173653	G069	287548
mucin 1 transmembrane	0.5	MUC1	NM_001018016	G069	293343
sialyltransferase 1 (beta-galactoside alpha-2-6-sialyltransferase)	2.5	ST6GAL1	NM_173216	G069	294391
KIAA0117 protein	3	RBM34	NM_015014	G197	297175
nuclear mitotic apparatus protein 1	1	NUMA1	NM_006185	G197	305901
v-Ha-ras Harvey rat sarcoma viral oncogene homolog	0.5	NRAS	NM_002524	G179	319002
MLL septin-like fusion (aka MSF)	1	SEPT9 (spelling)	NM_006640	G154	323815
zinc finger DHHC domain containing 14	2	ZDHHC14	NM_024630	G197	324847
SMAD- mothers against DPP homolog 3	1	SMAD3	NM_005902	G069	359946

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(Drosophila)					
PMS2 postmeiotic segregation increased 2 (S. cerevisiae)	11	PMS2	NM_000535	G179	371499
alveolar soft part sarcoma chromosome region-candidate 1	1	ASPCR1	NM_024083	G197	391864
complement component (3d/Epstein Barr virus) receptor 2	1	CR2	NM_001006658	G179	393780
nascent-polypeptide-associated complex alpha polypeptide	9	NACA	NM_005594	G069	417905
thousand and one amino acid protein kinase	0.5	TAOK2	NM_004783	G179	427359
juxtaposed with another zinc finger gene 1	2	JAZF1	NM_175061	G179	441680
homeo box A7	5	HOXA7	NM_006896	G154	528631
Rho GTPase activating protein 26	1	ARHGAP26	NM_015071	G179	533328
neuralized-like (Drosophila)	1	NEURL	NM_004210	G197	579608
CD69 antigen (p60 early T-cell activation antigen)	1	CD69	NM_001781	G069	585253
calcium/calmodulin-dependent protein kinase kinase 2 beta	1	CAMKK2	NM_006549	G179	604594
Wilms tumor 1	0.5	WT1	NM_000378	G179	606084
murine retrovirus integration site 1 homolog	0.5	MRV11	NM_130385	G069	611619
juxtaposed with another zinc finger gene 1	16	JAZF1	NM_175061	G069	655537
Rho GTPase activating protein 26	1	ARHGAP26	NM_015071	G179	665263
likely ortholog of mouse gene trap locus 3	4.25	GTL3	NM_013242	G197	747194
smoothened homolog (Drosophila)	1	SMO	NM_005631	G069	780223
Abelson helper integration site	1	AHI1	NM_017651	G069	789287
DnaJ (Hsp40) homolog subfamily C member 9	0.5	DNAJC9	NM_015190	G154	806608
exostoses (multiple) 1	4.75	EXT1	NM_000127	G197	809818
nuclear receptor co-repressor 2	1	NCOR2	NM_006312	G154	824223
coactosin-like 1 (Dictyostelium)	8	COTL1	NM_021149	G179	830470
nuclear receptor co-repressor 2	0.5	NCOR2	NM_006312	G179	857640
hypothetical protein FLJ10305	2	VAC14	NM_018052	G069	859942
Kruppel-like factor 3 (basic)	1	KLF3	NM_016531	G154	882688
chimerin (chimaerin) 1	0.5	CHN1	NM_001025201	G069	906416
SET translocation (myeloid leukemia-associated)	1	SET	NM_003011	G179	914307
DnaJ (Hsp40) homolog subfamily C member 9	2	DNAJC9	NM_015190	G179	947947
Kruppel-like factor 4 (gut)	1	KLF4	NM_004235	G069	968228
cytochrome c oxidase subunit VIc	1	COX6C	NM_004374	G197	983235
v-akt murine thymoma viral oncogene homolog 1	2	AKT1	NM_005163	G154	1011975
ATP/GTP-binding protein	3	HEAB	NM_006831	G179	1031397
growth factor independent 1	0.75	GFI1	NM_005263	G069	1035681
mature T-cell proliferation 1	1	MTCP1	NM_001018025	G179	1072094
chemokine (C-C motif) receptor 5	1	EEF1A1	NM_001402	G069	1088027
Rho GTPase activating protein 25	4	ARHGAP25	NM_001007231	G069	1104905
smoothened homolog (Drosophila)	1	SMO	NM_005631	G154	1133128
smoothened homolog (Drosophila)	1	SMO	NM_005631	G069	1135723
phosphatidylinositol binding clathrin assembly protein	2.75	PICALM	NM_001008660	G179	1163823
elongation factor RNA polymerase II	5.25	ELL	NM_006532	G069	1172124
pre-B-cell leukemia transcription factor 1	2	PBX1	NM_002585	G154	1194324
WD repeat domain 11	6.25	BRWD2	NM_018117	G069	1207037
suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein)	2.75	ST13	NM_003932	G069	1226061
hypothetical protein FLJ32312	1	FLJ32312	NM_144709	G179	1240876
clathrin heavy polypeptide-like 1	2	CLTCL1	NM_001835	G197	1271834
nuclear receptor coactivator 2	0.75	NCOA2	NM_006540	G197	1284521
chemokine (C-C motif) receptor 5	0.5	EEF1A1	NM_001402	G179	1302756
nuclear receptor subfamily 4- group A- member 3	0.25	NR4A3	NM_006981	G197	1321246
jun dimerization protein 2	1	JDP2	NM_130469	G069	1352487
myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog Drosophila); translocated to 1	1	MLLT1	NM_005934	G179	1372020
5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase	1	ATIC	NM_004044	G069	1440995
platelet-derived growth factor receptor beta polypeptide	2	PDGFRB	NM_002609	G179	1460101
CCAAT/enhancer binding protein (C/EBP) alpha	0.5	CEBPA	NM_004364	G179	1470212
myeloid/lymphoid or mixed-lineage leukemia	4	MLLT1	NM_005934	G069	1608795

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(trithorax homolog Drosophila); translocated to 1					
retinoic acid receptor alpha	4.25	NPM1	NM_002520	G069	1702811
pleiomorphic adenoma gene 1	1	PLAG1	NM_002655	G197	1722090
v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian)	1	MAFB	NM_005461	G069	1743129
NCK interacting protein with SH3 domain	5.75	NCKIPSD	NM_016453	G154	1888855
v-Ha-ras Harvey rat sarcoma viral oncogene homolog	2.5	NRAS	NM_002524	G069	1972902
Kruppel-like factor 3 (basic)	6	KLF3	NM_016531	G179	1985098
transcription factor 12 (HTF4 helix-loop-helix transcription factors 4)	1	TCF12	NM_003205	G197	1995597
high mobility group AT-hook 1	5	HMGA1	NM_002131	G197	2133480
protein kinase cGMP-dependent type II	1	PRKG2	NM_006259	G069	2167889
acidic (leucine-rich) nuclear phosphoprotein 32 family member B	2	ANP32B	NM_006401	G197	2169930
GNAS complex locus	3	GNAS	NM_000516	G197	2272606
epidermal growth factor receptor (erythroblastic leukemia viral (v-erb-b) oncogene homolog avian)	0.5	EGFR	NM_005228	G069	2300088
succinate dehydrogenase complex subunit C integral membrane protein 15kDa	2	SDHC	NM_001035511	G069	2317396
TCF3 (E2A) fusion partner (in childhood Leukemia)	1	TFPT	NM_013342	G069	2341821
Werner syndrome	1	WRN	NM_000553	G069	2355959
MCM5 minichromosome maintenance deficient 5 cell division cycle 46 (S. cerevisiae)	2	MCM5	NM_006739	G154	2465332
myelodysplasia syndrome 1	1	MDS1	NM_004991	G154	2486607
Werner syndrome	3	WRN	NM_000553	G154	2502768
nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor alpha	3	NFKBIA	NM_020529	G154	2531391
fragile histidine triad gene	1	FHIT	NM_002012	G179	2539181
hypothetical protein FLJ32786	1	FLJ32786	NM_144648	G154	2675326
mitogen-activated protein kinase kinase kinase 8	5	MAP3K8	NM_005204	G179	2915414
v-ets erythroblastosis virus E26 oncogene homolog 1 (avian)	5	ETS1	NM_005238	G069	2947628
protein kinase cAMP-dependent regulatory type I alpha (tissue specific extinguisher 1)	6.5	PRKAR1A	NM_002734	G179	2968213
TRK-fused gene	0.5	TFG	NM_001007565	G069	2978906
succinate dehydrogenase complex subunit D integral membrane protein	1	SDHD	NM_003002	G154	2995701
protein kinase cGMP-dependent type II	8.25	PRKG2	NM_006259	G197	2997065
pre-B-cell leukemia transcription factor 1	0.5	PBX1	NM_002585	G179	3004350
MCM5 minichromosome maintenance deficient 5 cell division cycle 46 (S. cerevisiae)	4	MCM5	NM_006739	G069	3122614
guanine monophosphate synthetase	1	GMPS	NM_003875	G179	3160663
interferon regulatory factor 2 binding protein 2	1.5	IRF2BP2	NM_182972	G069	3186464
Abelson helper integration site	1	AHI1	NM_017651	G069	3510585
v-myc myelocytomatosis viral oncogene homolog (avian)	1	MYC	NM_002467	G154	3837816
KIAA0117 protein	3.25	RBM34	NM_015014	G154	4266740
Runt-related transcription factor 1 translocated to 1 (cyclin D-related)	1	RUNX1T1	NM_175635	G197	4385719
BCL2-like 1	3	BCL2L1	NM_001191	G154	4419781
homeo box D11	1	HOXD11	NM_021192	G069	4540805
homeo box D11	3	HOXD11	NM_021192	G179	4591613
Kruppel-like factor 4 (gut)	5	KLF4	NM_004235	G197	4794098
neuroblastoma RAS viral (v-ras) oncogene homolog	1	HRAS	NM_005343	G197	5305590
transcription factor 12 (HTF4 helix-loop-helix transcription factors 4)	19.75	TCF12	NM_003205	G179	5787597
midline 1 (Opitz/BBB syndrome)	1	MID1	NM_000381	G179	5899127
transcription factor 12 (HTF4 helix-loop-helix transcription factors 4)	1	TCF12	NM_003205	G179	5999285
transcription factor 12 (HTF4 helix-loop-helix transcription factors 4)	5	TCF12	NM_003205	G069	6040336
SRY (sex determining region Y)-box 3	1	SOX3	NM_005634	G179	6300426

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5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase	6	ATIC	NM_004044	G154	7023442
suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein)	2	ST13	NM_003932	G069	7051517
Abelson helper integration site	5	AHI1	NM_017651	G197	7141860
homeo box D11	4	HOXD11	NM_021192	G179	8881253
homeo box D11	1	HOXD11	NM_021192	G154	9576217
chemokine (C-C motif) receptor 5	1.5	EEF1A1	NM_001402	G179	12536378
related RAS viral (r-ras) oncogene homolog 2	1	RRAS2	NM_012250	G154	13277540
related RAS viral (r-ras) oncogene homolog 2	1	RRAS2	NM_012250	G197	13385444

'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 before chemotherapy data set based on 'Capture #'