

Quadrant	RefSeq ID	Gene annotation
Right upper	NM_013649	receptor-like tyrosine kinase (Ryk), transcript variant 1
Right upper	NM_010444	nuclear receptor subfamily 4, group A, member 1 (Nr4a1)
Right upper	NM_007395	activin A receptor, type 1B (Acvr1b)
Right upper	NM_009874	cyclin-dependent kinase 7 (homolog of Xenopus MO15 cdk-activating kinase) (Cdk7)
Right lower	NM_009764	breast cancer 1 (Brca1)
Right lower	NM_022310	heat shock protein 5 (Hspa5)
Right lower	NM_008506	v-myc myelocytomatosis viral oncogene homolog 1, lung carcinoma derived (avian) (Myc11)
Right lower	NM_007783	c-src tyrosine kinase (Csk)
Right lower	NM_008871	serine (or cysteine) peptidase inhibitor, clade E, member 1 (Serpine1)
Right lower	NM_011729	excision repair cross-complementing rodent repair deficiency, complementation group 5 (Ercc5)
Right lower	NM_011385	ski sarcoma viral oncogene homolog (avian) (Ski)
Right lower	NM_007395	activin A receptor, type 1B (Acvr1b)
Right lower	NM_009397	tumor necrosis factor, alpha-induced protein 3 (Tnfaip3)
Right lower	NM_009983	cathepsin D (Ctsd)
Right lower	NM_013520	FMS-like tyrosine kinase 3 ligand (Flt3l)
Right lower	NM_011051	programmed cell death 6 (Pcd6)
Left upper	NM_011630	nuclear receptor subfamily 2, group C, member 2 (Nr2c2)
Left lower	NM_021283	interleukin 4 (Il4)
Left lower	NM_009755	bone morphogenetic protein 1 (Bmp1)

Additional file 6. List of genes for which expression of the antisense transcript and sense transcript markedly changed in tumors

Quadrants correspond to those in **Figure 5A**. Right upper: sense and antisense transcripts were up-regulated in tumors; right lower: antisense transcripts were down-regulated and sense transcripts were up-regulated; left upper: antisense transcripts were up-regulated and sense transcripts were down-regulated; left lower: both sense and antisense transcripts were down-regulated.