

**Table 3. Mouse and human syntenic regions of MT-MC1-regulated genes**

Gene	Chromosome	Position (Mb)	Human Syntenic Region	Associated Human Cancers
<i>Cxcr4</i>		128.40	2q21	Adeno. ca, ALL, Lymphoma, Sq. cell ca
<i>Daf2</i>	1	130.27	1q22	Adeno. ca, ALL, Bone tumors, Lymphoma, Sq. cell ca
<i>Daf1</i>		130.32		
<i>Adam8</i>	7	127.64	10q26	Adeno. ca, ALL, AML, CLL, Atyp. CML, CML, Lymphoma, Multiple myeloma
<i>Lsp1</i>		131.18	11p15	Adeno. ca, ALL, AML, Bone tumors, Brain tumors, Lymphoma, Melanoma, Myeloma
<i>Gp1ba</i>		70.25	17pter-p12	Adeno. ca, ALL, AML, Bone tumors, CLL, CML, Multiple myeloma
<i>Spag7</i>	11	70.26	17p13	Adeno. ca, ALL, AML, Atyp. CML, Bone tumors, CML, Lymphoma, Myeloma
<i>Ccl9</i>		83.19	17q11	AML, APML, CML
<i>Ccl6</i>		83.19		
<i>Anxa1</i>	19	19.66	9q12-21	Adeno. ca, ALL, AML, Brain tumors, Lymphoma, Multiple myeloma, Sq. cell ca
<i>Aldh1a1</i>		19.98	9q21	ALL, AML
<i>Piga</i>	X	154.40	Xp22	Adeno. ca, ALL, AML, Lymphoma
<i>Hccs</i>		159.43		
<i>Uty</i>		45.10		
<i>Eif2s3y</i>	Y	45.30	Yq11	
<i>Ddx3y</i>		45.60		

MT-MC1-regulated genes often cluster to common chromosomal loci and are syntenic with cancer-associated human loci. Chromosomal assignments for all of the genes listed in Table 2 were determined using the Entrez Gene database ([http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=gene)gene). Of the 47 genes listed, 16 localized to six distinct chromosomal clusters, corresponding to 11 syntenic human regions. Searches of the Mitelman database (<http://cgap.nci.nih.gov/Chromosomes/Mitelman>) showed that 10 of these 11 regions are commonly perturbed in a variety of cancers, most strikingly acute leukemias, lymphomas, and carcinomas.