

Table S11. Top ranked genes associated with inv(16)

Rank	Gene symbol	no. of specific references	Total no. of references	Total no. of platforms	Total no. of differentially expressed features	Gene name
Up-regulated genes						
1	MYH11	7	10	3	38	myosin, heavy chain 11, smooth muscle
2	TGFBI	5	7	4	13	transforming growth factor, beta-induced, 68kDa
3	PTPRM	5	6	3	11	protein tyrosine phosphatase, receptor type, M
4	SPARC	4	9	5	16	secreted protein, acidic, cysteine-rich (osteonectin)
5	MN1	4	8	4	16	meningioma (disrupted in balanced translocation) 1
6	CD52	4	6	3	14	CD52 molecule
7	CD1C	4	6	3	7	CD1c molecule
8	CHI3L1	4	6	2	13	chitinase 3-like 1 (cartilage glycoprotein-39)
9	ST18	4	6	2	7	suppression of tumorigenicity 18 (breast carcinoma) (zinc finger protein)
10	NRP1	4	5	3	9	neuropilin 1
11	NPTN	3	7	3	11	neuroplastin
12	SLC7A7	3	6	5	14	solute carrier family 7 (cationic amino acid transporter, y+ system), member 7
13	ITGB2	3	6	4	17	integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)
14	NT5E	3	6	4	12	5'-nucleotidase, ecto (CD73)
15	PLXNB2	3	6	3	8	plexin B2
16	MSLN	3	5	3	14	mesothelin
17	SLC38A1	3	5	2	15	solute carrier family 38, member 1
18	SELL	3	4	4	9	selectin L (lymphocyte adhesion molecule 1)
19	MTMR11	3	4	2	7	myotubularin related protein 11
20	VSIG4	3	4	2	6	V-set and immunoglobulin domain containing 4
21	DUSP6	3	3	2	11	dual specificity phosphatase 6
22	FLJ22662*	3	3	2	5	hypothetical protein FLJ22662
Down-regulated genes						
1	RUNX3	4	8	5	23	runt-related transcription factor 3
2	CBFB	3	5	3	9	core-binding factor, beta subunit
3	CLIP2	3	5	3	8	CAP-GLY domain containing linker protein 2
4	CHST12	3	4	3	5	carbohydrate (chondroitin 4) sulfotransferase 12
5	MGLL	3	3	2	4	monoglyceride lipase
6	HOXA9	2	11	4	35	homeobox A9
7	POU4F1	2	11	3	29	POU class 4 homeobox 1
8	HOXA4	2	8	4	18	homeobox A4
9	ZHX2	2	4	3	5	zinc fingers and homeoboxes 2
10	SLPI	2	3	2	10	secretory leukocyte peptidase inhibitor
11	ABCA5	2	3	2	7	ATP-binding cassette, sub-family A (ABC1), member 5
12	CD81	2	3	2	6	CD81 molecule
13	PELI2	2	3	2	6	pellino homolog 2 (Drosophila)
14	PVR	2	3	2	4	poliovirus receptor
15	NDE1	2	2	2	5	nudE nuclear distribution gene E homolog 1 (A. nidulans)
16	BAHCC1	2	2	2	4	BAH domain and coiled-coil containing 1
17	FBN2	2	2	1	3	fibrillin 2 (congenital contractural arachnodactyly)
18	GLCC1	2	2	1	3	glucocorticoid induced transcript 1
19	OAT	2	2	1	3	ornithine aminotransferase (gyrate atrophy)
20	SLC37A1	2	2	1	3	solute carrier family 37 (glycerol-3-phosphate transporter), member 1

In order of preference, the genes are ranked by the number of inv(16) related independent studies, the total number of independent studies, the total number of unique platforms, and the total number of features.

*Gene symbol is not approved by HUGO Gene Nomenclature Committee.