

Analysis Type by Cancer	Cancer vs. Normal		Cancer vs. Normal		Cancer vs. Normal		Cancer vs. Normal		Cancer vs. Normal		Cancer vs. Normal		Cancer vs. Normal		Cancer vs. Normal		Cancer vs. Normal		Cancer vs. Normal														
Bladder Cancer					3				1			1			1		1			1													
Brain and CNS Cancer	1				1	2		1	3		2		1	3		1		4	1	10													
Breast Cancer					1	14	1		1		11			2	1	1	11	11	8	1	1	18											
Cervical Cancer	4			3		1		1						2	2		2	1	1														
Colorectal Cancer	17		1		1				7	2			1			8	5	1		4		5											
Esophageal Cancer	3			4				1		3							1				4												
Gastric Cancer	2					3							1				1					1											
Head and Neck Cancer	4			4		1	4			2			5	2		3	4	4	5	5		1											
Kidney Cancer					1	4							7			4	3	4	4	1		7											
Leukemia	1	3		5		2	1	3	1			2	2	1	6	5	7		1		2	12											
Liver Cancer	2					1	4		1						1	3		3	2		4												
Lung Cancer				4		3		3	4			6		5		4	2				9												
Lymphoma		2			1	9				1		1	1	3		5	13			17	10	15											
Melanoma							1						1							2		4											
Myeloma						1						1				1						1											
Other Cancer	3			1									2	1		5	1		3	2		6											
Ovarian Cancer						1				1		1					1		1			2											
Pancreatic Cancer	3			1			2						1				1				1												
Prostate Cancer										1								1															
Sarcoma							1	1										1			1												
Significant Unique Analyses	40	5	1	22	1	7	14	48	13	8	3	1	8	21	6	2	29	7	16	12	35	24	19	2	48	45	59	13	3	11	27	38	
Total Unique Analyses	483		417		414		477		469		395		463		461		420		467		466		439		471		454		476		477		472
	CXCL8	CXCR2	CXCR1	CXCL12	IL1B	CXCR3	IL6	RELA	ICAM1	CCR1	CCL5	CCL20	CXCL9	CXCL10	MMP9	NFKB1	EGFR																

Figure S1. OncoPrint-derived gene expression levels (Cancer vs Normal) for CXCL8 related genes selected from STRING and literature

Analysis Type by Cancer	CXCL8		CEBPB		FOS		JUN		DARC	
	Cancer vs. Normal									
Bladder Cancer						4		3		4
Brain and CNS Cancer	1				1		2			1
Breast Cancer			2			13		19	1	11
Cervical Cancer	4		1			1		1		
Colorectal Cancer	17		13		1	1	9			10
Esophageal Cancer	3		1		1				2	
Gastric Cancer	2		2							
Head and Neck Cancer	4		3							1
Kidney Cancer			3			1				
Leukemia	1	3	2	8	3	3	4	2		3
Liver Cancer	2					5		1		
Lung Cancer				2		9		4		13
Lymphoma		2	9		4	1	8	3	4	
Melanoma							1	2		2
Myeloma			1							
Other Cancer	3		4		2	2	1	1		3
Ovarian Cancer						4		2		1
Pancreatic Cancer	3		1							1
Prostate Cancer					1					1
Sarcoma				4		6		3		8
Significant Unique Analyses	40	5	40	16	11	50	23	41	7	59
Total Unique Analyses	483		433		465		478		469	

Figure S1 (Continued)

Analysis Type by Cancer	Cancer vs. Normal		Cancer vs. Normal		Cancer vs. Normal		Cancer vs. Normal	
Bladder Cancer			4				2	
Brain and CNS Cancer	1		1		2		4	
Breast Cancer				1		1	3	
Cervical Cancer	4		2				4	
Colorectal Cancer	17			1		1	11	
Esophageal Cancer	3		3				3	
Gastric Cancer	2						5	
Head and Neck Cancer	4		7		2		10	
Kidney Cancer			2		7			2
Leukemia	1	3	1		2	1	1	1
Liver Cancer	2				2			
Lung Cancer				2		2	5	
Lymphoma		2			12		10	
Melanoma			1			1		
Myeloma								
Other Cancer	3				5	1	6	
Ovarian Cancer			1				1	
Pancreatic Cancer	3		4		3		3	
Prostate Cancer				3		6		
Sarcoma					2	1		
Significant Unique Analyses	40	5	26	7	35	14	68	3
Total Unique Analyses	483		473		450		470	

CXCL8 ITGA3 MYOF PLAU

Figure S2 (Continued)

Analysis Type by Cancer	Cancer vs. Normal		Cancer vs. Normal		Cancer vs. Normal		Cancer vs. Normal		Cancer vs. Normal		Cancer vs. Normal		Cancer vs. Normal																			
Bladder Cancer					1		1			3	1	1		1		1		2		1												
Brain and CNS Cancer		1								1		1																				
Breast Cancer				8	18	1	7	1	1	14	11	11	5	1	1	2		1	1	3												
Cervical Cancer		4		3	3					1	2	1	2		2																	
Colorectal Cancer	1	17	1		20	14	1	20	9		7	1	4	11	7		4	4	5	7												
Esophageal Cancer		3		4	5	2				1					2				1													
Gastric Cancer		2			2					3	1																					
Head and Neck Cancer		4		4	7	1	1	2	1	1	4	5	4	2	1		1	4		1												
Kidney Cancer	1				2			2	1	1	4	4	4	1			2	2	1	3												
Leukemia	2	1	3		5		9	5	1	1	1	3	1			1		2	1	3												
Liver Cancer		2			1		5			1	4	2	4	3	3		3	2	3	3												
Lung Cancer	3			4	1	10	6		2		3						7	1		2												
Lymphoma	1		2			1	2			9		17	10	7		11	9			6												
Melanoma																	1			1												
Myeloma										1																						
Other Cancer		3		1		1	1				3	2				2	3															
Ovarian Cancer								1		1		1	1		2			1		1												
Pancreatic Cancer		3		1			2		2	2								1														
Prostate Cancer											1				1					1												
Sarcoma					1	6				1	1		1		1		1	1	1	1												
Significant Unique Analyses	1	7	40	5	1	22	37	23	19	49	26	18	13	5	14	48	48	45	34	15	3	29	7	18	12	19	2	9	18			
Total Unique Analyses	414		483		417		466		459		426		411		477		471		454		411		428		432		460		439		431	
	CXCR1	CXCL8	CXCR2	CXCL1	CXCL2	CXCL3	CXCL5	CXCL12	CXCL9	CXCL10	CXCL11	CXCL6	CXCL13	CCL19	CCL20	CCL21																

Figure S3. Oncomine-derived gene expression levels (Cancer vs Normal) for CXCR1 related genes selected from STRING and literature

Analysis Type by Cancer	Cancer vs. Normal		Cancer vs. Normal		Cancer vs. Normal		Cancer vs. Normal		Cancer vs. Normal	
Bladder Cancer						2				3
Brain and CNS Cancer										
Breast Cancer				2						
Cervical Cancer										
Colorectal Cancer	1			2		5				3
Esophageal Cancer								3		
Gastric Cancer										
Head and Neck Cancer						2				
Kidney Cancer		1		2				1		4
Leukemia		2		2	6	8		1		
Liver Cancer										1
Lung Cancer		3			7			1		1
Lymphoma		1					3			1
Melanoma										
Myeloma										
Other Cancer										
Ovarian Cancer										1
Pancreatic Cancer				1		2				
Prostate Cancer										
Sarcoma						1				
Significant Unique Analyses	1	7		5	17	22	6		1	13
Total Unique Analyses	414		391		459		451		371	

CXCR1 CCL27 CXCL7 GNA15 GNA14

Figure S3 (Continued)

Analysis Type by Cancer	Cancer vs. Normal																				
Bladder Cancer																					
Brain and CNS Cancer																					
Breast Cancer								2													
Cervical Cancer							1														
Colorectal Cancer	1									3			3								
Esophageal Cancer																					
Gastric Cancer																					
Head and Neck Cancer																					
Kidney Cancer	1						1					3									
Leukemia	2																				
Liver Cancer																					
Lung Cancer	3									2											
Lymphoma	1					1			1					1							
Melanoma																					
Myeloma																					
Other Cancer																					
Ovarian Cancer																					
Pancreatic Cancer							1					2									
Prostate Cancer																					
Sarcoma																					
Significant Unique Analyses	1	7				1	1	2		2		1	5	4	3	3		1	1		1
Total Unique Analyses	414	257	257	257	257	272	408	167	282	241	5	424	251	265	374	278					

CXCR1 LRRC43 ASB10 OXER1DSCR10 AVPR1B GALR3 SLC34A3 ASPG EVX1 TSSK3 CNTD2 UTS2R

POM121L12

TMEM105

Figure S4. Oncomine-derived gene expression levels (Cancer vs Normal) for CXCR1 related genes selected from CCLE

Analysis Type by Cancer	Cancer vs. Normal		Cancer vs. Normal		Cancer vs. Normal		Cancer vs. Normal		Cancer vs. Normal			
Bladder Cancer		1		1	1					2		
Brain and CNS Cancer				1		1				4		
Breast Cancer				1	1		1		1	2		
Cervical Cancer	3											
Colorectal Cancer	1	14						5	1			
Esophageal Cancer	4					2		1				
Gastric Cancer						2				1		
Head and Neck Cancer	4		1					2				
Kidney Cancer		2			1		1	1		1		
Leukemia	5	1	1		1					1		
Liver Cancer												
Lung Cancer	4			1		2		3		1		
Lymphoma		2					2	1				
Melanoma			1		2			1				
Myeloma			1									
Other Cancer	1							1		1		
Ovarian Cancer				3						1		
Pancreatic Cancer	1											
Prostate Cancer							2					
Sarcoma				1				1	1			
Significant Unique Analyses	1	22	20	4	8	6	7	6	16	3	14	
Total Unique Analyses	417		405		479		445		313		443	

CXCR2 GTF3A ST13 RGS12 MYO5B RAB11FIP2

Figure S5 (Continued)

Table S1. Top 20 cell lines with negative shRNA score for CXCL8

Cell line	shRNA score
LN235_CENTRAL_NERVOUS_SYSTEM	-1.73
QGP1_PANCREAS	-1.36
SKCO1_LARGE_INTESTINE	-1.20
AGS_STOMACH	-1.10
SNU840_OVARY	-1.09
JHOM1_OVARY	-1.05
CADOES1_BONE	-1.00
C32_SKIN	-1.00
LN443_CENTRAL_NERVOUS_SYSTEM	-0.97
ZR7530_BREAST	-0.94
RS411_HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	-0.93
HT55_LARGE_INTESTINE	-0.91
HPAC_PANCREAS	-0.87
CAS1_CENTRAL_NERVOUS_SYSTEM	-0.86
OPM2_HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	-0.85
HS683_CENTRAL_NERVOUS_SYSTEM	-0.83
NCIH2122_LUNG	-0.83
HCC364_LUNG	-0.81
RMUGS_OVARY	-0.81
HCC1954_BREAST	-0.80

Table S2. Top 20 cell lines with positive shRNA score for CXCL8

Cell line	shRNA score
COLO741_SKIN	0.78
MONOMAC6_HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	0.61
ACHN_KIDNEY	0.52
SU8686_PANCREAS	0.47
U87MG_CENTRAL_NERVOUS_SYSTEM	0.38
PLB985_HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	0.34
NIHOVCAR3_OVARY	0.33
TE9_OESOPHAGUS	0.32
HEC1A_ENDOMETRIUM	0.28
HL60_HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	0.27
SLR20_KIDNEY	0.27
JHOC5_OVARY	0.26
CORL23_LUNG	0.26
KM12_LARGE_INTESTINE	0.25
KNS60_CENTRAL_NERVOUS_SYSTEM	0.22
NCIH1792_LUNG	0.22
C2BBE1_LARGE_INTESTINE	0.21
KASUMI1_HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	0.20
NCIH660_PROSTATE	0.20
HCC827GR5_LUNG	0.18

Table S3. Top 20 cell lines with negative shRNA score for CXCR1

Cell line	shRNA score
U87MG_CENTRAL_NERVOUS_SYSTEM	-2.00
NCIH1975_LUNG	-1.91
KMS12BM_HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	-1.67
DLD1_LARGE_INTESTINE	-1.59
NCIH716_LARGE_INTESTINE	-1.57
TC71_BONE	-1.56
CH157MN_CENTRAL_NERVOUS_SYSTEM	-1.56
U343_CENTRAL_NERVOUS_SYSTEM	-1.54
AM38_CENTRAL_NERVOUS_SYSTEM	-1.50
UOK101_KIDNEY	-1.46
KYSE150_OESOPHAGUS	-1.42
SNUC2A_LARGE_INTESTINE	-1.42
CAS1_CENTRAL_NERVOUS_SYSTEM	-1.39
CADOES1_BONE	-1.36
COV504_OVARY	-1.35
U178_CENTRAL_NERVOUS_SYSTEM	-1.34
HPAC_PANCREAS	-1.34
JHOC5_OVARY	-1.33
NCIH196_LUNG	-1.31
DKMG_CENTRAL_NERVOUS_SYSTEM	-1.31

Table S4. Cell lines with positive shRNA score for CXCR1. There are only eight cell lines with positive shRNA score for CXCR1

Cell line	shRNA score
EFO21_OVARY	0.23
SNUC1_LARGE_INTESTINE	0.16
KURAMOCHI_OVARY	0.12
HT55_LARGE_INTESTINE	0.07
HT29_LARGE_INTESTINE	0.06
PANC0327_PANCREAS	0.05
QGP1_PANCREAS	0.03
COV362_OVARY	0.02

Table S5. Top 20 cell lines with negative shRNA score for CXCR2. There are no cell lines with positive shRNA score of CXCR2

Cell line	shRNA score
COV434_OVARY	-2.35
SLR21_KIDNEY	-2.30
C32_SKIN	-2.18
SKMEL5_SKIN	-2.14
HCC364_LUNG	-2.12
RKO_LARGE_INTESTINE	-2.05
DBTRG05MG_CENTRAL_NERVOUS_SYSTEM	-2.04
TYKNU_OVARY	-1.98
OAW42_OVARY	-1.96
MKN7_STOMACH	-1.95
CFPAC1_PANCREAS	-1.94
HNT34_HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	-1.93
COLO741_SKIN	-1.93
NCIH1975_LUNG	-1.89
HS944T_SKIN	-1.86
LS411N_LARGE_INTESTINE	-1.85
NB4_HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	-1.85
PANC0813_PANCREAS	-1.82
SKRC20_KIDNEY	-1.80
MIAPACA2_PANCREAS	-1.78