

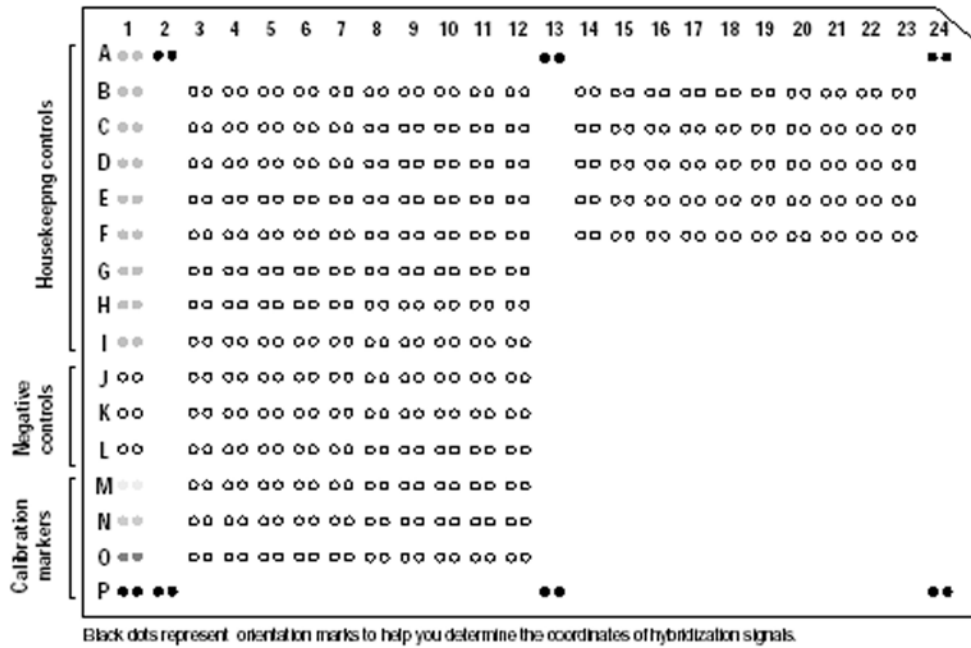
ANEXO I

**INFORMACIÓN SOBRE LOS EXPERIMENTOS CON
MACROARRAYS PRESENTADOS EN ESTE TRABAJO,
SIGUIENDO EL FORMATO DE MIAME**

ANEXO I: INFORMACIÓN SOBRE LOS EXPERIMENTOS CON *MACROARRAYS* PRESENTADOS EN ESTE TRABAJO, SIGUIENDO EL FORMATO DE MIAME

A.1. LOCALIZACIÓN Y NÚMERO DE IDENTIFICACIÓN (ID) DE LOS *SPOTS* PRESENTES EN LAS MEMBRANAS ATLAS ONCOGENE AND TUMOR SUPPRESSOR ARRAYS (BD CLONTECH)

A.1.1. Diagrama de la disposición de los distintos genes en las membranas



A.1.2. Lista de genes presentes en las membranas

GENE					
ID	COORDINATE	GENBANK	LOCUS LINK	SWISSPROT	GENE NAME
905	01A	M26880	7316	P02248	ubiquitin C tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide
906	01B	M86400	7534	P29312	hypoxanthine phosphoribosyltransferase 1 (Lesch-Nyhan syndrome)
907	01C	V00530	3251	P00492	glyceraldehyde-3-phosphate dehydrogenase
16	01D	X01677	2597	P04406	tubulin, alpha, ubiquitous
901	01E	K00558	10376	P04687	major histocompatibility complex, class I, C
902	01F	M11886	3107	P10321	actin, beta
49	01G	X00351	60	P02570	ribosomal protein L13a
903	01H	X56932	23521	P40429	ribosomal protein S9
904	01I	U14971	6203	P46781	v-myc myelocytomatosis viral oncogene homolog (avian)
4	03B	V00568	4609	P01106 P01107	v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)
7	03C	M29366	2065	P21860	insulin-like growth factor 1 receptor colony stimulating factor 1 receptor, formerly McDonough feline sarcoma viral (v-fms) oncogene homolog
8	03D	X04434	3480	P08069	Mdm2, transformed 3T3 cell double minute 2, p53 binding protein (mouse)
12	03E	X03663	1436	P07333	platelet-derived growth factor beta polypeptide (simian sarcoma viral (v-sis) oncogene homolog)
14	03F	Z12020	4193	Q00987 Q13226	tumor necrosis factor (TNF superfamily, member 2)
15	03G	X02811	5155	P01127 P78431	transforming growth factor, alpha
23	03H	X01394	7124	P01375	transforming growth factor, beta 1 (Camurati-Engelmann disease)
32	03I	K03222	7039	P01135 Q15577	v-myb myeloblastosis viral oncogene homolog (avian)
34	03J	X02812	7040	P01137	tumor protein p53 (Li-Fraumeni syndrome)
37	03K	M15024	4602	P10242	transforming growth factor, beta 2
38	03L	M14694	7157	P04637	v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog
39	03M	M19154	7042	P08112	transforming growth factor, beta receptor III (betaglycan, 300kDa)
40	03N	X06182	3815	P10721	retinoic acid receptor, beta
67	03O	L07594	7049	Q03167	v-myb myeloblastosis viral oncogene homolog (avian)-like 2
77	04B	X07282	5915	P10826	nuclear receptor subfamily 1, group D, member 1
78	04C	X13293	4605	P10244	epidermal growth factor receptor (erythroblastic leukemia viral (v-erb-b) oncogene homolog, avian)
97	04D	M24898	9572	P20393	nuclear receptor subfamily 2, group F, member 6
110	04E	X00588	1956	P00533	nuclear receptor subfamily 2, group F, member 1
128	04F	X12794	2063	P10588	ets variant gene 6 (TEL oncogene) transcription factor Dp-2 (E2F dimerization partner 2)
129	04G	X12795	7025	P10589	v-erb-a erythroblastic leukemia viral
139	04H	U11732	2120	P41212	
143	04I	U18422	7029	Q14188	
148	04J	L07868	2066	Q15303	

					oncogene homolog 4 (avian)
153	04K	J04111	3725	P05412	v-jun sarcoma virus 17 oncogene homolog (avian)
155	04L	M33294	7132	P19438	tumor necrosis factor receptor superfamily, member 1A
					v-erb-b2 erythroblastic leukemia viral oncogene homolog 2,
161	04M	M11730	2064	P04626	neuro/glioblastoma derived oncogene homolog (avian)
183	04N	L12260	3084	Q02297	neuregulin 1
184	04O	L12261	3084	Q07110	neuregulin 1
206	05B	M27288	5008	P13725	oncostatin M
222	05C	M59964	4254	P21583	KIT ligand
244	05D	M76125	558	P30530	AXL receptor tyrosine kinase
247	05E	M92381	9168	P13472	thymosin, beta 10
277	05F	X06374	5154	P04085	platelet-derived growth factor alpha polypeptide
309	05G	D13866	1495	P35221	catenin (cadherin-associated protein), alpha 1, 102kDa
316	05H	D17517	7301	Q06418	TYRO3 protein tyrosine kinase
348	05I	L11353	4771	P35240	neurofibromin 2 (bilateral acoustic neuroma)
351	05J	L13738	10188	Q07912	activated p21cdc42Hs kinase
357	05K	L14837	7082	Q07157	tight junction protein 1 (zona occludens 1)
359	05L	L16785	4831	P22392	non-metastatic cells 2, protein (NM23B) expressed in
					v-rel reticuloendotheliosis viral oncogene homolog A, nuclear factor of kappa light polypeptide gene enhancer in B-cells 3, p65 (avian)
360	05M	L19067	5970	Q04206	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide
368	05N	L20422	7533	Q04917	guanine nucleotide binding protein (G protein), alpha 13
372	05O	L22075	10672	Q14344	CD86 antigen (CD28 antigen ligand 2, B7-2 antigen)
376	06B	L25259	942	P42081	cyclin-dependent kinase (CDC2-like) 10
380	06C	L33264	8558	Q15130 Q15131	
386	06D	M13150	4142	P04201	MAS1 oncogene
					ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease)
419	06E	M31213	5979	Q15250 P07949	excision repair cross-complementing rodent repair deficiency, complementation group 3 (xeroderma pigmentosum group B complementing)
422	06F	M31899	2071	P19447	thyroid autoantigen 70kDa (Ku antigen)
424	06G	M32865	2547	P12956	
429	06H	M34960	6908	Q16845	TATA box binding protein
432	06I	M36089	7515	P18887	X-ray repair complementing defective repair in Chinese hamster cells 1
438	06J	M54915	5292	P11309	pim-1 oncogene
					neurofibromin 1 (neurofibromatosis, von Recklinghausen disease, Watson disease)
453	06K	M60915	4763	P21359	
455	06L	M62397	4163	P23508	mutated in colorectal cancers
457	06M	M62810	7019	Q00059	transcription factor A, mitochondrial
482	06N	M81750	4332	P41218	myeloid cell nuclear differentiation antigen
484	06O	M81840	4901	P54845	neural retina leucine zipper
486	07B	M83234	4904	Q14972	nuclease sensitive element binding

					protein 1
512	07C	U02082	7984	Q12774	Rho guanine nucleotide exchange factor (GEF) 5
517	07D	U03056	3373	Q12794	hyaluronoglucosaminidase 1
531	07E	U07236	3932	P06239	lymphocyte-specific protein tyrosine kinase
541	07F	U09579	1026	P38936	cyclin-dependent kinase inhibitor 1A (p21, Cip1)
568	07G	X07024	6872	P21675	TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 250kDa
569	07H	X15218	6497	P12755	v-ski sarcoma viral oncogene homolog (avian)
570	07I	X15219	6498	P12757	SKI-like
573	07J	X51630	7490	P19544	Wilms tumor 1
633	07K	M81933	993	P30304	cell division cycle 25A
634	07L	M92287	896	P30281	cyclin D3
643	07M	S85655	5245	P35232	prohibitin
644	07N	X03484	5894	P04049	v-raf-1 murine leukemia viral oncogene homolog 1
646	07O	X16416	25	P00519	v-abl Abelson murine leukemia viral oncogene homolog 1
647	08B	X59798	595	P24385	cyclin D1 (PRAD1: parathyroid adenomatosis 1)
654	08C	D13639	894	P30279 Q13955	cyclin D2
655	08D	NM_005417	6714	P12931	v-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (avian)
656	08E	X75042	5966	Q04864	v-rel reticuloendotheliosis viral oncogene homolog (avian)
657	08F	L25080	387	P06749	ras homolog gene family, member A
659	08G	X75342	6461	Q15464	SHB (Src homology 2 domain containing) adaptor protein B
663	08H	L26584	5923	Q13972	Ras protein-specific guanine nucleotide-releasing factor 1
665	08I	X76132	1630	P43146	deleted in colorectal carcinoma
703	08J	L27211	1029	P42771 Q15191	cyclin-dependent kinase inhibitor 2A (melanoma, p16, inhibits CDK4)
708	08K	M13228	4613	P04198	v-myc myelocytomatosis viral related oncogene, neuroblastoma derived (avian)
709	08L	M15400	5925	P06400 P78499	retinoblastoma 1 (including osteosarcoma)
710	08M	M15990	7525	P07947	v-yes-1 Yamaguchi sarcoma viral oncogene homolog 1
712	08N	M19720	4610	P12524	v-myc myelocytomatosis viral oncogene homolog 1, lung carcinoma derived (avian)
713	08O	M19722	2268	P09769	Gardner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog
723	09B	M73812	898	P24864	cyclin E1
724	09C	M74088	324	P25054	adenomatosis polyposis coli receptor (TNFRSF)-interacting serine-threonine kinase 1
741	09D	U25994	8737	Q13546 Q13180	cyclin-dependent kinase inhibitor 2D (p19, inhibits CDK4)
746	09E	U40343	1032	P55273	
748	09F	U43746	675	P51587	breast cancer 2, early onset neuroblastoma RAS viral (v-ras) oncogene homolog
754	09G	X02751	4893	P01111	
758	09H	X16706	2355	P15408	FOS-like antigen 2
759	09I	X16707	8061	P15407	FOS-like antigen 1
760	09J	X51521	7430	P15311	villin 2 (ezrin)
764	09K	X56681	3727	P17535	jun D proto-oncogene
765	09L	X59932	1445	P41240	c-src tyrosine kinase
770	09M	X86779	10922	Q14296	FAST kinase

771	09N	X87838	1499	P35222	catenin (cadherin-associated protein), beta 1, 88kDa
777	09O	Z29090	5290	P42336 Q99762	phosphoinositide-3-kinase, catalytic, alpha polypeptide
782	10B	M14745	596	P10415	B-cell CLL/lymphoma 2
806	10C	D38305	10140	P50616	transducer of ERBB2, 1
811	10D	L16464	2117	P41162	ets variant gene 3
812	10E	L29216	1196	P49760	CDC-like kinase 2
813	10F	L29220	1198	P49761	CDC-like kinase 3
814	10G	L29222	1195	P49759	CDC-like kinase 1
829	10H	U10564	7465	P30291	WEE1 homolog (S. pombe)
836	10I	U22398	1028	P49918	cyclin-dependent kinase inhibitor 1C (p57, Kip2)
837	10J	U24166	22919	Q15691	microtubule-associated protein, RP/EB family, member 1
838	10K	U26710	868	Q13191	Cas-Br-M (murine) ecotropic retroviral transforming sequence b
845	10L	U33841	472	Q13315	ataxia telangiectasia mutated (includes complementation groups A, C and D)
846	10M	U35735	6563	Q13336	solute carrier family 14 (urea transporter), member 1 (Kidd blood group)
850	10N	U40282	3611	Q13418	integrin-linked kinase
851	10O	U41816	5203	Q92779	prefoldin 4
853	11B	U43408	8711	Q13470	tyrosine kinase, non-receptor, 1
859	11C	U57456	4086	Q15797	MAD, mothers against decapentaplegic homolog 1 (Drosophila)
862	11D	U60800	10507	Q92854	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D
863	11E	U61262	4756	Q92859	neogenin homolog 1 (chicken)
864	11F	U63139	10111	Q92878	RAD50 homolog (S. cerevisiae)
878	11G	M81934	994	P30305	cell division cycle 25B
879	11H	U17075	1030	P42772	cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4)
900	11I	U84119			delta lactoferrin
C101	11J	X74262	5928	Q09028	retinoblastoma binding protein 4
C106	11K	X85133	5930	Q15290	retinoblastoma binding protein 6
C114	11L	Z29083	7162	Q13641	trophoblast glycoprotein
C138	11M	L23959	7027	Q14186	transcription factor Dp-1
C139	11N	L25676	1025	P50750	cyclin-dependent kinase 9 (CDC2-related kinase)
C140	11O	L26081	10371	Q14563	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A
C146	12B	L37882	2535	Q14332	frizzled homolog 2 (Drosophila)
C15	12C	L20861	7474	P41221	wingless-type MMTV integration site family, member 5A
C151	12D	M29039	3726	P17275	jun B proto-oncogene
C152	12E	M34065	995	P30307	cell division cycle 25C
C160	12F	M73980	4851	P46531	Notch homolog 1, translocation-associated (Drosophila)
C163	12G	M95712	673	P15056	v-raf murine sarcoma viral oncogene homolog B1
C166	12H	M99437	4853	Q04721	Notch homolog 2 (Drosophila)
C169	12I	U15642	1875	Q15329	E2F transcription factor 5, p130-binding
C174	12J	U33920	6405	Q13275	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3F

C176	12K	U43318	7855	Q13467	frizzled homolog 5 (Drosophila)
C177	12L	U46461	1855	P54792	dishevelled, dsh homolog 1 (Drosophila)
C178	12M	U49262	1857	Q13531 Q92997	dishevelled, dsh homolog 3 (Drosophila)
C18	12N	L34075	2475	P42345	FK506 binding protein 12-rapamycin associated protein 1
C186	12O	X07876	7472	P09544	wingless-type MMTV integration site family member 2
C19	14B	L40027	2931	P49840	glycogen synthase kinase 3 alpha
C198	14C	X66360	5128	Q00537	PCTAIRE protein kinase 2
C199	14D	X66362	5129	Q07002	PCTAIRE protein kinase 3
C200	14E	X66363	5127	Q00536	PCTAIRE protein kinase 1
C204	14F	X74594	5934	Q08999	retinoblastoma-like 2 (p130)
C210	15B	X85134	5929	Q15291	retinoblastoma binding protein 5
C220	15C	Z71621	7482	Q93097	wingless-type MMTV integration site family, member 2B
C227	15D	AB000220	10512	Q99985	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C
C229	15E	AF001954	3621	O00532	inhibitor of growth family, member 1 Mdm4, transformed 3T3 cell double minute 4, p53 binding protein (mouse)
C232	15F	AF007111	4194	O15151	prefoldin 5
C236	16B	D89667	5204	Q99471	hyaluronan-mediated motility receptor (RHAMM)
C238	16C	U29343	3161	O75330	cell growth regulatory with ring finger domain
C239	16D	U66469	10668	Q99675	BRCA1 associated RING domain 1
C246	16E	U76638	580	Q99728	frizzled homolog 9 (Drosophila)
C251	16F	U82169	8326	O00144	smoothed homolog (Drosophila)
C254	17B	U84401	6608	Q99835	tumor necrosis factor receptor superfamily, member 10a
C256	17C	U90875	8797	O00220	Notch homolog 4 (Drosophila)
C257	17D	U95299	4855	O00306	tumor protein p73
C258	17E	Y11416	7161	O15350	wingless-type MMTV integration site family, member 8B
C261	17F	X91940	7479	Q93098 O00771	wingless-type MMTV integration site family, member 10B
C263	18B	X97057	7480	O00744 O00747	E2F transcription factor 3
C266	18C	Y10479	1871	O00716 Q15000	transcription factor 7-like 2 (T-cell specific, HMG-box)
C267	18D	Y11306	6934	O00185	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3F
C272	18E	U38276	6405	Q13372	Notch homolog 2 (Drosophila)
C273	18F	U77493	4853	Q99734	v-fos FBJ murine osteosarcoma viral oncogene homolog
C277	19B	K00650	2353	P01100	general transcription factor II, i
C284	19C	X53795	2969	P27701	sonic hedgehog homolog (Drosophila)
C288	19D	L38518	6469	Q15465	v-Ki-ras2 Kirsten rat sarcoma 2 viral oncogene homolog
C292	19E	M54968	3845	P01118	v-akt murine thymoma viral oncogene homolog 1
C296	19F	M63167	207	P31749	retinoblastoma binding protein 1
C298	20B	S57153	5926	P29374	abl-interactor 2
C300	20C	U23435	10152	Q13147	E2F transcription factor 1
C313	20D	M96577	1869	Q01094	frizzled-related protein
C314	20E	U24163	2487	Q92765	zeta-chain (TCR) associated protein kinase 70kDa
C351	20F	L05148	7535	P43403	signal transducer and activator of transcription 1, 91kDa
C354	21B	M97935	6772	P42224	

C372	21C	X58957	695	Q06187	Bruton agammaglobulinemia tyrosine kinase
C376	21D	AF016268	8795	O15517	tumor necrosis factor receptor superfamily, member 10b
C384	21E	M35296	27	P42684	v-abl Abelson murine leukemia viral oncogene homolog 2 (arg, Abelson-related gene)
C386	21F	M97934	6773	P52630	signal transducer and activator of transcription 2, 113kDa
C388	22B	U47686	6777	P51692 P42229	signal transducer and activator of transcription 5B
C44	22C	M80629	8621	Q14004	cell division cycle 2-like 5 (cholinesterase-related cell division controller)
C51	22D	S66431	5927	P29375	retinoblastoma binding protein 2
C54	22E	U04045	4436	P43246	mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli)
C61	22F	U29656	4832	Q13232	non-metastatic cells 3, protein expressed in
C68	23B	U43148	5727	Q13463	patched homolog (Drosophila)
C7	23C	J02958	4233	P08581	met proto-oncogene (hepatocyte growth factor receptor)
C74	23D	U49089	1741	Q92796	discs, large (Drosophila) homolog 3 (neuroendocrine-dlg)
C77	23E	U54777	2956	P52701	mutS homolog 6 (E. coli)
C98	23F	X66358	8814	Q00532	cyclin-dependent kinase-like 1 (CDC2-related kinase)

A.1.3. Clasificación funcional de los genes

GENE ID	CLASSIFICATIONS	CLASSIFICATION ID	CLASSIFICATION NAME
905	FU00 FH00 FQ03 SC00 SN00		FUNCTIONAL CLASSIFICATION
906	FT06 FL05 SC00	FA00	cell surface antigens
907	FL06 SC00	FB00	transcription
16	FL02 FL03 FY02 SC00 SN00	FB01	RNA polymerase
901	FW00 SC00 SK00	FB02	basic transcription factors
902	FE02 SB00	FB03	transcription activators and repressors
49	FW00 SC00 SK00	FB04	transcription termination proteins
903	FN01 FE03 SC00 SB00	FB05	other transcription proteins
904	FN01 SC00	FC00	cell cycle
4	FG00 FB03 FT00 FO00 SN00	FC01	cyclins
7	FG00 FT00 FR01 FV01 SB00	FC02	cell cycle-regulating kinases
8	FO02 FR01 FT00 FV01 SB00	FC03	CDK inhibitors
12	FG00 FT00 FR01 FV01 SB00	FC04	other cell cycle proteins
14	FG00 FT00 FO00 FC00 SN00	FD00	cell adhesion receptors/proteins
15	FG00 FS02 SF00	FD01	matrix adhesion receptors
23	FO01 FS02 SB00 SF00	FD02	cell-cell adhesion receptors
32	FS02 SF00	FD03	other cell adhesion proteins
34	FS02 SF00	FE00	immune system proteins
37	FG00 FB03 FT00 SN00	FE01	immunoglobulins
38	FG00 FT00 FO00 SN00	FE02	major histocompatibility complex
39	FS02 SF00	FE03	other immune system proteins
40	FG00 FT00 FR01 FV01 SB00	FF00	extracellular transport/carrier proteins
67	FR01 FG00 FV07 SB00 SF00	FG00	oncogenes and tumor suppressors
77	FO02 FB03 FT00 FR03 FV05 SN00	FH00	stress response proteins
78	FG00 FB03 FT00 SN00	FH01	heat shock proteins
97	FG00 FB03 FR03 FV05 FT00 SN00	FH02	drug resistance proteins
110	FG00 FT00 FR01 FV01 SB00	FH03	xenobiotic metabolism

128	FG00 FB03 FT00 SN00	FH04	xenobiotic transporters
129	FG00 FB03 FR03 FV05 FT00 SN00	FH05	other stress response proteins
139	FG00 FB03 SN00	FI00	membrane channels and transporters
143	FC04 FT00 FB03 SN00	FI01	facilitated diffusion proteins
148	FG00 FT00 FR01 FV01 SB00	FI02	ligand-gated ion channels
153	FG00 FB03 FT00 SN00	FI03	voltage-gated ion channels
155	FO02 FT00 FR01 FV06 FA00 SB00	FI04	other facilitated diffusion proteins symporters and antiporters (gradient-driven transporters)
161	FG00 FT00 FR01 FV01 SB00	FI05	ATPase transporters
183	FS02 SF00	FI06	light and electron flow driven transporters
184	FS02 SF00	FI07	group translocation transporters (membrane phosphotransferases)
206	FS02 SF00	FI08	ABC transporters
222	FS02 SF00	FI09	other membrane channels and transporters
244	FG00 FT00 FR05 FV01 SB00	FI10	
247	FS02 SF00	FJ00	extracellular matrix proteins
277	FS02 SF00	FK00	trafficking/targeting proteins
309	FD01 SC00	FK01	general trafficking
316	FG00 FT00 FR00 FV01 SB00	FK02	targeting
348	FG00 FT00 SB00	FK03	exocytosis
351	FT02 SC00	FK04	endocytosis
357	FG00 FW02 SK00 SB00	FK05	other trafficking/targeting proteins
359	FG00 FO00 FB03 SN00 SC00	FL00	metabolism
360	FB03 FT00 FG00 SN00 SC00	FL01	simple carbohydrate metabolism
368	FT09 FG00 SC00	FL02	complex carbohydrate metabolism
372	FT04 SB00	FL03	energy metabolism
376	FT00 FA00 FR05 FV07 SB00	FL04	simple lipid metabolism
380	FC02 FT02 SN00	FL05	complex lipid metabolism
386	FG00 FR05 FV03 SB00	FL06	nucleotide metabolism
419	FG00 FT00 FR05 FV01 SB00	FL07	amino acid metabolism
422	FY02 FH00 SN00	FL08	metabolism of cofactors, vitamins, and related substances
424	FY02 FY01 FH00 SN00	FL09	other metabolism enzymes
429	FB01 SN00	FM00	post-translational modification/protein folding
432	FY02 FH00 SN00	FM01	chaperones/ heat shock proteins
438	FG00 FT02 FO09 SC00	FM02	protein modification enzymes
453	FG00 FT00 SC00	FM03	other post-translational modification proteins
455	FG00 SX00	FN00	translation
457	FB02 SN00	FN01	ribosomal proteins
482	FC04 FB03 FG00 SN00 SC00	FN02	factors of translation
484	FB03 SN00	FN03	other proteins involved in translation
486	FB02 SN00	FO00	apoptosis associated proteins
512	FT04 SX00	FO01	death receptor ligands
517	FG00 FL02 SX00	FO02	death receptors
531	FT01 FG00 SB00 SC00	FO03	death receptor-associated proteins and adaptors
541	FC03 FT09 FG00 SN00	FO04	caspases
568	FB03 FC00 SN00	FO05	BCL2 family proteins
569	FG00 FT02 SN00	FO06	calpains
570	FG00 FT02 SN00	FO07	granzymes
573	FG00 SN00	FO08	DNA fragmentation proteins
633	FC04 FT03 SN00	FO09	death kinases
634	FC01 SN00	FO10	other apoptosis-associated proteins
643	FG00 FT01 SC00	FP00	RNA processing, turnover, and transport
644	FG00 FT02 SC00	FP01	mRNA processing/turnover/transport
646	FG00 FT01 SC00 SN00	FP02	tRNA processing/turnover/transport
647	FC01 SN00	FP03	Other RNA processing/turnover/transport
654	FC01 SN00	FQ00	DNA binding and chromatin proteins
655	FG00 FT01 SC00	FQ01	histones

656	FG00 FB03 FT00 SN00	FQ02	histone acetyltransferases/deacetylases
657	FG00 FT04 SB00	FQ03	chromatin proteins
659	FG00 FT01 SC00	FQ04	centromeric proteins
663	FT01 FC00 SC00	FQ05	telomere-associated proteins
665	FG00 FR01 FV07 SB00	FQ06	DNA methyltransferases/demethylases
703	FC03 FT09 FG00 SN00	FQ07	other DNA binding and chromatin proteins
708	FG00 FB03 FT00 FO00 SN00	FR00	cell receptors (by ligands)
709	FG00 FC00 FT00 SN00	FR01	growth factor & chemokine receptors
710	FG00 FT01 SC00	FR02	interleukin and interferon receptors
712	FG00 FB03 FT00 FO00 SN00	FR03	hormone receptors
713	FG00 FT01 SC00	FR04	neurotransmitter receptors
723	FC01 SN00	FR05	other receptors (by ligands)
724	FG00 FT00 SC00	FS00	cell signaling, extracellular communication proteins
741	FO03 FT01 SC00	FS01	neuropeptides
746	FC03 FT09 FG00 SN00	FS02	growth factors, cytokines, and chemokines
748	FG00 FY02 SN00	FS03	hormones
754	FG00 FT04 SC00	FS04	interleukins and interferons
758	FG00 FB03 FT00 SN00	FS05	other extracellular communication proteins
759	FG00 FB03 FT00 SN00	FT00	intracellular transducers/effectors/modulators
760	FG00 FT00 SB00	FT01	adaptors and receptor-associated proteins
764	FG00 FB03 FT00 SN00	FT02	intracellular kinase network members (non-receptor protein kinases)
765	FT01 SC00	FT03	intracellular protein phosphatases (non-receptor phosphatases)
770	FO09 FT02 SC00 SN00	FT04	G-proteins
771	FD02 SB00	FT05	GTP/GDP exchangers and G-protein GTPase activity modulators
777	FT06 SB00	FT06	phospholipases and phosphoinositol kinases
782	FO05 FG00 SE00 SU00 SM00	FT07	adenylate/guanylate cyclases and diesterases
806	FC04 FT01 FG00 SC00	FT08	calcium-binding proteins
811	FG00 FB03 FT00 SN00	FT09	kinase activators and inhibitors
812	FC02 FT02 SN00	FT10	other intracellular transducers/effectors/modulators
813	FC02 FT02 SN00	FU00	protein turnover
814	FC02 FT02 SN00	FU01	amino- and carboxypeptidases
829	FC03 FC02 FT02 FG00 SN00	FU02	serine proteases
836	FC03 FT09 FG00 SN00	FU03	aspartic proteases
837	FG00 FT00 SC00	FU04	metalloproteinases
838	FG00 FT01 SC00 SN00	FU05	cysteine proteases
845	FY02 FC02 FY03 FH00 SN00	FU06	proteosomal proteins
846	FI01 SB00	FU07	inhibitors of proteases
850	FT01 SB00 SC00	FU08	others involved in protein turnover
851	FC04 FB03 FT00 SN00	FV00	cell receptors (by activities)
853	FT02 SC00	FV01	protein kinases
859	FG00 FT01 SB00	FV02	protein phosphatases
862	FD02 SB00	FV03	G protein-coupled receptors
863	FG00 FR01 FV07 SB00	FV04	orphan receptors
864	FY02 FH00 SN00	FV05	nuclear receptors
878	FC04 FT03 SN00	FV06	death domain receptors
879	FC03 FT09 FG00 SN00	FV07	other receptors
900	FQ00 SN00	FW00	cytoskeleton/motility proteins
C101	FQ03 FQ02 SN00	FW01	microfilament proteins
C106	FC04 FB00 SN00	FW02	intermediate filament proteins
C114	FG00 FA00 SB00	FW03	motor proteins
C138	FC04 FT00 FB03 SN00	FW04	other cytoskeleton/motility proteins
C139	FC02 FT02 SN00	FX00	functionally unclassified
C140	FS01 FS02 SF00	FY00	DNA synthesis, recombination, and repair
C146	FT00 FR01 FV07 SB00	FY01	DNA replication: polymerases, replication

C15	FS05 SF00	FY02	factors, and topoisomerases
C151	FG00 FB03 FT00 SN00	FY03	DNA damage signaling/repair proteins and DNA ligases
C152	FC04 FT03 SN00	FY04	proteins involved in recombination
C160	FG00 FR01 FV07 SB00		other DNA synthesis, recombination, and repair proteins
C163	FG00 FT02 SC00	SB00	SUBCELLULAR LOCALIZATION
C166	FG00 FB00 SN00	SC00	plasma membrane proteins
C169	FB03 FC00 SN00	SE00	cytoplasmic proteins
C174	FS01 FS02 SX00	SF00	endoplasmic reticulum
C176	FR05 FV07 SB00	SG00	extracellular secreted proteins
C177	FT10 SC00	SH00	Golgi complex
C178	FS02 FC00 SF00	SK00	chromosome structural proteins
C18	FT10 FC00 SC00 SN00	SL00	cytoskeletal proteins
C186	FS05 SF00	SM00	lysosomal proteins
C19	FT02 SC00 SN00	SN00	mitochondrial proteins
C198	FT02 FO00 SC00 SN00	SP00	nuclear proteins
C199	FT02 FO00 SC00 SN00	SR00	peroxisomal proteins
C200	FT02 FO09 SC00 SN00	SS00	microsomal proteins
C204	FG00 FC00 FT00 SN00	ST00	endosomal proteins
C210	FC04 FB00 SN00	SU00	extracellular matrix
C220	FS05 SF00	SX00	nuclear membranes/ nuclear matrix/nuclear pores
C227	FS01 FS02 SF00	NC00	unclassified localization
C229	FG00 SN00		not classified
C232	FG00 FT00 FO00 FC00 SN00		
C236	FG00 FB05 SN00		
C238	FW04 FR05 FV07 SB00 SC00		
C239	FC04 SX00		
C246	FB03 SN00		
C251	FR05 FV07 SB00		
C254	FT01 SB00		
C256	FO02 FV07 FR05 SB00		
C257	FG00 FR01 FV07 SB00		
C258	FB03 FC00 SN00		
C261	FS05 SF00		
C263	FS05 SF00		
C266	FB03 FC04 SN00		
C267	FB02 SN00		
C272	FS01 FS02 SF00		
C273	FG00 FR01 FV07 SB00		
C277	FG00 FB03 FT00 SN00		
C284	FA00 SB00		
C288	FS02 SF00 SB00		
C292	FG00 FT04 SC00		
C296	FO09 FT02 FG00 SC00		
C298	FC04 FB00 SN00		
C300	FG00 FT01 SC00 SN00		
C313	FB03 FC04 SN00		
C314	FR05 FV07 SB00		
C351	FT01 FG00 SB00 SC00		
C354	FB03 FT00 SN00 SC00		
C372	FT02 SC00		
C376	FO02 FV06 FR05 SB00		
C384	FG00 FT01 SC00		
C386	FB03 FT00 SN00 SC00		
C388	FB03 FT00 SN00 SC00		
C44	FC02 FT02 SN00		

C51	FB02 FC04 SN00
C54	FY02 FH00 SN00
C61	FL06 SC00
C68	FR01 FV07 SB00
C7	FG00 FT00 FR01 FV01 SB00
C74	FG00 SB00
C77	FY02 FH00 SN00
C98	FC02 FT02 SN00



A.2. DATOS GENERADOS EN LOS EXPERIMENTOS

A.2.1. Datos directos

Intensidad de los spots

NOMBRE DE LOS GENES	CONTROL (sin tratar)	IC ₇₅ Daunorubicina	IC ₅₀ Daunorubicina	IC ₇₅ WP631
40 s ribosomal protein S9 (RPS9)	13133,43691	16556,34176	4234,335126	125311,1039
23-kDa highly basic protein; ribosomal protein L13A (RPL13A)	79525,36394	96396,15819	21594,37564	388297,9909
cytoplasmic beta-actin (ACTB)	141029,9112	108951,6576	12864,15038	422174,1118
major histocompatibility complex class I (HLAC)	13954,96688	17400,33672	2532,185075	41377,1264
tubulin alpha 1 (TUBA1)	34611,24095	41130,41816	10109,8903	150335,4897
liver glyceraldehyde 3-phosphate dehydrogenase (GAPDH, G3PDH)	201392,426	2,63E+05	27069,52831	4,49E+05
hypoxantine-guanine phosphoribosyltransferase 1 (HPRT1)	5940,689734	7962,367144	1786,397553	13279,65144
phospholipase A2	4300,197308	4926,80228	1408,275042	12290,3867
ubiquitin	17658,52921	30453,18864	3369,4701	57194,04216
transforming growth factor beta receptor III (TGFbeta receptor, betaglycan)	1990,364911	2443,342391	1389,092541	2,92E+03
c-kit proto-oncogene ; mast/stem cell growth factor receptor (SCFR); CD117 antigen	2008,85741	2454,02989	1,17E+03	2,41E+03
transforming growth factor beta 2 (TGF-beta 2; TGFB2)	2002,059911	2558,824886	1175,880035	2,34E+03
p53 cellular tumor antigen	2050,834908	2530,269887	1217,090036	2,82E+03
myb proto-oncogene; c-myb	3327,997351	3872,979827	1403,900042	12293,5092
transforming growth factor beta (TGF-beta, TGFB)	2158,182404	2502,837388	1207,207536	3419,596583
transforming growth factor alpha (TGF-alpha; TGFA)	2247,2124	2490,762389	1199,870036	3114,929165
tumor necrosis factor alpha (TNF-alpha; TNFA); cachectin	2339,144895	2674,43488	1225,552537	3636,221525
platelet-derived growth factor beta subunit (PDGF-beta; PDGFB); sis proto-oncogene	2309,232397	2653,174881	1230,600037	3702,854007
p53-binding mouse double minute 2 homologue (MDM2)	2336,852396	2658,382381	1213,055036	4409,383817
colony stimulating factor 1 receptor (CSF1R); fms proto-oncogene	2451,45489	2884,814871	1252,927537	5330,83357
insulin-like growth factor I receptor (IGF1R)	3942,387324	4895,674781	1440,720043	7893,085383
erbB3 proto-oncogene; HER3	3092,029862	3240,232355	1281,992538	4340,611336
myc proto-oncogene	77262,60905	72450,82426	23000,94569	121247,9475
heregulin-beta3; glial growth factor; neuregulin;	1943,417413	2296,514897	1358,41254	2,39E+03

GGHPP1

neuregulin 1 (NRG1), heregulin-alpha (HRGA;HGL)	1990,209911	2328,872396	1,17E+03	2,19E+03
erbB2 proto-oncogene; neu proto-oncogene; HER2	2008,88241	2481,569889	1,16E+03	2,18E+03
tumor necrosis factor receptor superfamily member 1A	2287,134898	2834,862373	1231,435037	3367,551597
c-jun proto-oncogene	2516,819887	3217,954856	1310,192539	3837,963971
erbB4 proto-oncogene; HER4; neuregulin receptor	2069,852407	2419,432392	1,16E+03	2,69E+03
transcription factor DP2 (Humdp2); E2F dimerization partner	2583,969884	3041,707364	1303,105039	3646,411522
ets translocation variant 6 (ETV6); TEL proto-oncogene	7891,119647	6373,142215	2238,515067	15103,90595
v-erbA related protein 3 (EAR3); transcription factor COUP2	2353,859895	2668,499881	1234,132537	3663,976517
v-erbA homologue-like 2 (EAR2); nuclear receptor subfamily 2	2503,404888	2806,477375	1236,747537	5849,715931
epidermal growth factor receptor (EGF receptor; EGFR); erbB proto-oncogene	4227,162311	5133,97477	1461,342544	20381,76453
triiodothyronine receptor; thyroid hormone receptor (THRA1); v-erbA-related protein ear-1	2491,609889	2738,312378	1222,977536	10518,49718
MYB-related protein B (B-MYB); avian myeloblastosis viral oncogene homologue-like 2 (MYBL2)	3761,989832	4553,272296	1364,025041	18106,61764
retinoic acid receptor epsilon (RAR-epsilon); retinoic acid receptor beta 2 (RAR-beta2); HAP	4139,757315	3328,444851	1511,375045	4256,586358
guanine nucleotide-binding protein alpha 13 subunit (GNA13)	1945,732413	2315,272396	1382,360041	2,09E+03
14-3-3n protein eta	2420,657392	2814,299874	1196,140036	4505,013792
rel A proto-oncogene	2717,707379	2927,154869	1176,865035	4978,456165
nucleoside diphosphate kinase B	15034,89933	18798,34166	3313,377599	78615,14141
tight junction protein 1 (TJP1), zonula occludens (ZO1)	2083,579907	2634,087382	1182,735035	2,97E+03
tyrosine-protein kinase ack	2225,552401	2619,377383	1193,752536	3216,166637
MOESIN-ezrin-radixin-like protein (MERLIN)	2195,859902	2540,507386	1181,515035	2,94E+03
TYRO3 tyrosine-protein kinase receptor; RSE	2775,979876	3049,217364	1362,717541	4517,531288
alpha 1 catenin (CTNNA1), alpha E catenin	2900,01237	3374,867349	1392,320041	5774,290951
platelet-derived growth factor A subunit (PDGFA;PDGF1)	2635,749882	2944,579868	1316,297539	5288,161082
thymosin beta 10 (TMSB10; THYB10)	29345,75119	34093,16598	4862,502645	210536,796
tyrosine-protein kinase receptor UFO; axl proto-oncogene	2464,55989	2761,314877	1284,075038	6342,313299
stem growth factor (SCF), mast cell growth factor (MGF); c-kit ligand	2249,532399	2492,122389	1239,605037	3077,231675
oncostatin M (OSM)	2281,854898	2542,027386	1246,582537	2,81E+03
neural retin-specific leucine zipper protein (NRL)	2133,309905	2424,287392	1389,877541	2,66E+03
myeloid cell nuclear differentiation antigen (MNDA)	6554,312207	5882,197237	2413,562572	9854,017357
mitochondrial transcription factor 1 (MTTF1), TCF6L1	2081,747407	2498,084888	1,17E+03	2,58E+03
colorectal mutant cancer protein (MCC)	2223,912401	2639,252382	1271,602538	3321,604109
neurofibromatosis protein type 1 (NF1); neurofibromin	2006,41241	2406,594892	1,16E+03	2,75E+03
pim-1 proto-oncogene	1999,072411	2324,882396	1184,067535	3420,676583
X-ray repair-complementing defective repair in Chinese hamster cells	2763,854876	3646,589837	1411,482542	5496,523526
transcription initiation factor IID; TATA box factor; TATA sequence-binding protein (TBP)	2104,314906	2438,277391	1,16E+03	3129,96166
Ku 70 k-Da subunit (Ku70)	3007,274866	3278,894853	1242,712537	15375,08838
xeroderma pigmentosum group B complementing protein (XPB)	3493,954844	3717,709834	1389,410041	10051,3323
papillary thyroid carcinoma-encoded protein + RET proto-oncogene	2583,709884	2964,192367	1308,622539	6166,278346
mas proto-oncogene	2485,404889	2752,909877	1248,952537	5166,938614

cyclin-dependent kinase 10 (CDK10); CDC2-related protein kinase PILSSRE	2737,454878	3009,454865	1296,357539	4589,491269
T-lymphocyte activation CD86 antigen	3494,322344	4571,359796	1574,200047	4961,533669
c-abl proto-oncogene	2209,604901	2476,747389	1417,450042	6565,083239
raf1 proto-oncogene	2375,372394	2616,974883	1424,567542	3699,164008
prohibitin (PHB)	2624,279883	3177,254858	1515,702545	3913,93145
G1/S-specific cyclin D3 (CCND3)	2575,082385	2947,467368	1509,487545	8635,912684
cell division cycle 25 homologue A (CDC25A)	2808,937374	3341,757351	1553,040046	4276,533853
Wilms' tumor protein	2032,862409	2313,427397	1402,410042	2,61E+03
ski-related oncogene snoN	2082,604907	2426,147392	1425,470042	2,84E+03
ski oncogene	2534,229887	3133,67736	1541,197546	4099,4064
TBP associated factor 250K-Da subunit (TAF2A)	2199,532402	2570,627385	1428,592543	3735,933998
CDK-interacting protein 1 (CIP1); WAF1	2472,902389	3055,082363	1538,527546	4072,248908
proto-oncogene tyrosine-protein kinase lck	5834,869739	7896,582147	1815,737554	15234,37841
tumor suppressor LUCA1	3766,474832	3784,219831	1697,417551	8856,290125
guanine nucleotide regulatory protein tim 1 nuclease-sensitive element DNA-binding protein (NSEP)	3137,51736	3094,232362	1669,72505	3852,793967
c-fgr proto-oncogene (p55-FGR), SRC2	124417,8519	138695,0463	61764,68184	281564,9995
L-myc proto-oncogene (MYCL1)	2181,712402	2513,037388	1432,545043	3052,399181
c-yes proto-oncogene; YES1	2077,487407	2285,929898	1191,862536	2,38E+03
retinoblastoma-associated protein 1 (RB1)	2058,939908	2363,832394	1176,567535	2,39E+03
N-myc proto-oncogene	1995,359911	2319,454896	1,16E+03	3030,001687
cyclin-dependent kinase 4 inhibitor ; p16-INK4; multiple tumor suppressor 1 (MTS1)	2050,719908	2347,904895	1187,527535	2,61E+03
colorectal cancer suppressor protein (DCC)	2039,002409	2427,977391	1,15E+03	2,48E+03
cell division cycle 25 homologue (CDC25)	2035,597409	2344,717395	1184,992535	2,67E+03
src homology 2 protein (SHB)	2053,297408	2383,967393	1187,532535	2,49E+03
ras homologue gene family member A	2702,314879	2913,01487	1330,70504	4596,951267
c-rel proto-oncogene protein	27684,28126	29603,73868	6688,560199	55466,46262
C-src proto-oncogene (SRC1)	2337,259896	2499,417388	1208,890036	8072,992835
cyclin D2 (CCND2)	3845,204828	4004,662321	1350,79004	8413,067743
G1/S-specific cyclin D1 (CCND1)	2474,979889	2573,877385	1252,955037	3746,651495
phosphatidylinositol 3 kinase catalytic subunit alpha isoform (PI3 kinase)	4836,167284	4263,732309	1814,532554	6987,995626
beta 1 catenin (CTNNB)	1971,397412	2272,907398	1349,24754	2,29E+03
fas-activated serine/threonine kinase (FAST)	2120,382405	2511,819888	1,16E+03	2982,7742
c-src kinase (CSK); protein tyrosine-kinase ckl	3054,312363	3817,032329	1485,075044	10664,43964
junD proto-oncogene	2979,532367	3835,487329	1366,867541	11500,58692
ezrin	2027,492409	2356,497395	1174,942535	2,68E+03
FOS-related antigen 1 (FRA1); FOS-like antigen (FOSL1)	5512,997254	7134,027181	2114,837563	14379,37864
FOS-related antigen 2 (FRA2), FOS-like antigen (FOSL2)	2297,324897	2808,074874	1242,510037	3246,039129
n-ras proto-oncogene; transforming protein p21	2062,534908	2372,939894	1229,650037	2,51E+03
breast cancer type 2 susceptibility protein (BRCA2)	2366,734894	2870,584872	1274,380038	4852,091199
cyclin-dependent kinase 4 inhibitor 2D; p19-INK4D	2431,069891	2545,039886	1269,290038	3202,621641
receptor interacting protein (RIP)	2497,089888	2998,999866	1252,382537	4968,096167
adenomatous polyposis coli protein (APC)	2185,562402	2448,774891	1226,322537	2,71E+03
G1/S-specific cyclin E (CCNE)	2098,527406	2428,794891	1200,785036	2,68E+03
C-1 protein; prefoldin 4	2142,134904	2209,699901	1224,877537	3393,03159
integrin-linked kinase (ILK)	2283,064898	2509,294888	1407,665042	3318,62411
	1967,274912	2285,454898	1,16E+03	2,72E+03

erythrocyte urea transporter (UTE)	2148,507404	2527,167387	1187,702535	6046,725878
ataxia telangiectasia mutated protein (ATM)	1968,942412	2301,169897	1184,347535	2,60E+03
CBL-B	2073,582407	2497,717388	1,17E+03	2,93E+03
EB1 protein	5342,994761	8024,327141	1602,660048	23161,94379
cyclin-dependent kinase inhibitor 1C; p57; KIP2	2215,217401	2616,352383	1213,190036	3055,33918
wee1Hu CDK tyrosine 15-kinase; wee-1-like protein kinase	2685,05238	3364,55235	1285,942538	4682,803744
CDC-like kinase 1(CLK1)	2008,97241	2346,969895	1169,812535	2,76E+03
CDC-like kinase 3 (CLK3)	2248,0474	2598,184884	1265,585038	3615,32403
CDC-like kinase 2 (CLK2)	2078,037407	2450,39489	1200,515036	2,84E+03
ETS oncogene (PEP1)	2086,792407	2494,797388	1188,417535	2,91E+03
transducer of erbB2 (TROB;TOB)	2875,799871	3873,124827	1474,082544	5973,018398
bcl-2	1990,534911	2292,462398	1218,555036	3551,911547
semaphorin III (SEMA3)	1936,539913	2659,262381	1355,78504	2,39E+03
cell division protein kinase 9 (CDK9); serine/threonine protein kinase PITALRE	2429,002391	3428,352347	1229,960037	3861,856464
E2F dimerization partner	3973,717322	6136,284726	1644,032549	13821,64129
5T4 oncofetal antigen	2069,949907	3021,192365	1,15E+03	2,61E+03
RBQ1 retinoblastoma binding protein	2387,064893	3783,039831	1228,420037	3967,696436
retinoblastoma binding protein 4 (RBBP4)	9730,672065	14174,70437	2355,33007	20479,97451
delta lactoferrin	2036,162409	2954,837368	1,16E+03	2,70E+03
cyclin-dependent kinase 4 inhibitor2B, p14- INK4B; multiple tumor suppressor 2 (MTS2)	2090,192407	3000,369866	1212,022536	2977,929201
cell division cycle 25 homologue B (CDC25B)	3094,362362	4760,969787	1393,307542	7696,042936
DNA damage repair 6recombination protein 50 homologue (RAD50)	2004,13991	2828,277374	1187,105035	2,69E+03
neogenin	2100,044906	2959,114868	1229,310037	2,90E+03
semaphorin; CD100 antigen	1986,232411	2724,009878	1212,100036	2,67E+03
TGF-beta signalling protein (BSP1)	2141,279904	2946,829868	1229,402537	2,83E+03
tyrosine kinase tnk1	2208,312401	3130,66736	1276,475038	3238,401631
wingless-realted MMTV integration site 2 protein	1965,469912	2651,412381	1363,312541	2,36E+03
FKBP-rapamycin associated protein (FRAP)	2068,329908	2827,949874	1,12E+03	2,88E+03
dishevelled (DVL) + dishevelled 3 (DVL3)	2890,979871	4313,137307	1329,52004	6508,645754
dishevelled homologue 1-like protein	3837,319828	5402,547258	1740,537552	9292,560008
frizzled homologue 5 (FZD5)	2073,852407	2921,732369	1,16E+03	2,58E+03
semaphorin III/F (SEMA3F); semaphorin IV	2199,734902	2952,929868	1188,915035	2,97E+03
E2F transcription factor 5 (E2F5)	2166,977403	2988,452366	1213,750036	2978,426701
neurogenic locus notch protein	2680,76738	3698,207335	1248,517537	3800,396481
B-raf proto-oncogene (RAFB1)	2463,43239	3494,812344	1314,082539	3326,231608
neurogenic locus notch protein homologue 1	3290,244853	4231,702311	1733,032552	5016,971154
cell division cycle 25 homologue C (CDC25C)	2021,72991	2769,882376	1207,410036	2,75E+03
jun-B	1947,269913	2707,294879	1186,422535	2,59E+03
wingless-realted MMTV integration site 5a protein	2496,572388	3111,459861	1299,962539	2,60E+03
frizzled homologue 2	1939,529913	2605,622384	1231,127537	2,47E+03
retinoblastoma-like 2 protein 2, 130 K-Da retinoblastoma-associated protein	2136,582404	2487,142389	1,10E+03	3634,946525
serine/threonine kinase PCTAIRE 1	2918,69237	3542,177342	1425,767542	7553,520474
serine/threonine kinase PCTAIRE 3	2169,242403	2385,847393	1,15E+03	3131,95916
serine/threonine kinase PCTAIRE 2	1977,117412	2,01E+03	1,10E+03	2,26E+03
glycogen synthase kinase 3 alpha	3854,632328	5430,984757	1741,802552	9135,12505
MDM2-like p53-binding protein (MDMX)	2272,937398	2599,472384	1,12E+03	7973,087861
p33ING1	2319,177396	2728,514878	1188,845035	5228,116098
semaphorin E	1904,147415	2,00E+03	1,06E+03	2,51E+03

wingless-realted MMTV integration site 13 protein	1943,527413	2,08E+03	1,08E+03	2,16E+03
RBQ-3	2063,179908	2310,134897	1,13E+03	2,65E+03
frizzled homologue 9	3833,357329	6307,829718	1562,170047	14402,47614
BRCA1-associated ring domain protein 1 (BARD1)	2047,592408	2321,967396	1,09E+03	2984,0217
p53-dependent cell growth regulator CGR19	1944,049913	2,13E+03	1,08E+03	2,71E+03
hyaluronan receptor	1912,084915	2,04E+03	1,08E+03	2,21E+03
c-myc-binding protein MM-1; prefoldin 5	5591,95475	9190,229589	2364,21757	35263,52804
wingless-realted MMTV integration site 8b protein	2034,604909	2252,079899	1,10E+03	2,96E+03
p73 (monoallelically expressed p53-related protein)	1912,592415	2,06E+03	1,06E+03	2,53E+03
neurogenic locus notch protein homologue 4	2687,98238	3776,424831	1330,03254	6375,90329
tumor necrosis factor receptor superfamily member 10A	1997,592411	2,19E+03	1,10E+03	2,30E+03
smoothened homologue	2555,502386	3251,662355	1350,59004	4627,376259
neurogenic locus notch protein homologue 2	2561,442385	3196,562357	1238,937537	4965,501168
semaphorin 1	1989,624911	2,17E+03	1,12E+03	3052,231681
beta-catenin	2355,234895	2612,847383	1280,740038	3234,124133
E2f transcription factor 3 (E2F3)	3337,402351	4600,117294	1569,005047	5496,203526
wingless-realted MMTV integration site 10b protein	1939,597413	2,07E+03	1,10E+03	2,46E+03
akt1 proto-oncogene	4531,647297	7061,222184	1775,780053	29095,4097
v-Ki-RAS2B proto-oncogene	2099,209906	2235,0424	1,13E+03	3399,241588
sonic hedgehog (SHH)	2032,187409	2,16E+03	1,11E+03	2,50E+03
CD82 antigen	2934,722369	3831,562329	1360,990041	5791,578447
c-fos proto-oncogene	1931,214914	1,97E+03	1,09E+03	2,25E+03
ZAP70	24757,64389	34886,45094	8614,275257	141244,4521
frizzled-related FrzB (FRITZ)	2210,867401	2305,087397	1,11E+03	3294,309116
PRB-binding protein E2F1, retinoblastoma-binding protein 3	3009,214865	4285,862308	1319,557539	11305,31697
Abl interactor 2 (Abl-2) + Abl binding protein 2 (AbIBP3)	2033,607409	2,14E+03	1,10E+03	2,76E+03
retinoblastoma-binding protein 1 (RBP1) isoform I + isoform III	1893,822415	2,00E+03	1,09E+03	2,29E+03
STAT2; STAT113	2274,599898	2294,064897	1169,390035	5156,873617
Abelson murine leukemia viral oncogene homologue 2 (ABL2)	2124,897405	2321,574896	1,11E+03	3316,95161
tumor necrosis factor receptor superfamily member 10B	2097,872406	2267,027399	1,11E+03	3152,514154
Bruton's tyrosine kinase (BTK)	1939,517413	2,14E+03	1,10E+03	2,63E+03
STAT1	2318,897396	2791,967375	1243,402537	4395,051321
protein expressed in non-metastatic cells 3	1965,914912	2,13E+03	1,11E+03	2,72E+03
DNA mismatch repair protein MSH2	1968,984912	2,05E+03	1,08E+03	2,66E+03
RBP2 retinoblastoma binding protein	1926,089914	2,18E+03	1,11E+03	2,50E+03
CDC2-related protein CHED	2100,929906	2331,814896	1199,282536	2,61E+03
STAT5A; STAT5B	3661,884836	4305,529808	1625,712548	6339,8558
cyclin-dependent kinase-like 1 (CDL1)	1980,502411	2,03E+03	1,09E+03	2,97E+03
DNA mismatch repair protein MSH6	1941,544913	2,12E+03	1,15E+03	3061,106679
synapse-associated protein 102 (SAP102)	2587,997384	2897,01737	1449,100043	4018,186422
met proto-oncogene	1924,272414	2,03E+03	1,07E+03	2,44E+03
patched homologue (PTC)	1982,997411	2,06E+03	1,13E+03	2,60E+03

Background de diferentes puntos escogidos al azar en las membranas

	CONTROL (sin tratar)	IC ₇₅ Daunorubicina	IC ₅₀ Daunorubicina	IC ₇₅ WP631
2427,299891		2622,309883	1260,012538	4114,718896
2222,137401		2490,384889	1219,670036	2918,171717
2130,559905		2380,522394	1206,100036	2887,701725
2264,132399		2449,029891	1256,667537	3077,756674
2669,824881		2628,189883	1653,842549	5494,576026
2216,252401		2386,614893	1240,260037	5305,583577
1999,382411		2356,094895	1215,937536	2737,221766
1921,939914		2166,259903	1162,255035	2464,649339
1919,737414		2535,472387	1167,955035	2396,111857
1899,384915		2552,409886	1162,150035	2162,66442
1922,847414		1913,384914	1073,747532	2232,884401
1888,639916		1941,524913	1078,000032	3963,773937
1938,784913		1959,777412	1074,625032	3168,98665
1899,149915		1973,894912	1047,415031	2224,966903
1897,837415		1922,342414	1061,065032	2412,839353
1868,747416		1938,207413	1092,000033	2221,871904
1878,977416		1913,397414	1095,977533	2218,829405
1883,707416		1934,914914	1119,352533	2447,541844
1875,937416		1981,977411	1060,140032	2534,62182
1935,689913		2080,509907	1104,260033	2534,51932
PROMEDIO	2033,048534	2206,361026	1167,57166	2975,999577

A.2.2. Datos directos corregidos por el background

NOMBRE DE LOS GENES	CONTROL (sin tratar)	IC ₇₅ Daunorubicina	IC ₅₀ Daunorubicina	IC ₇₅ WP631
40 s ribosomal protein S9 (RPS9)	11100,38838	14349,98073	3066,763466	122335,1043
23-kDa highly basic protein; ribosomal protein L13A (RPL13A)	77492,31541	94189,79716	20426,80398	385321,9913
cytoplasmic beta-actin (ACTB)	138996,8627	106745,2966	11696,57872	419198,1122
major histocompatibility complex class I (HLAC)	11921,91834	15193,9757	1364,613415	38401,12682
tubulin alpha 1 (TUBA1)	32578,19242	38924,05714	8942,318641	147359,4901
liver glyceraldehyde 3-phosphate dehydrogenase (GAPDH, G3PDH)	199359,3775	2,61E+05	25901,95665	4,46E+05
hypoxantine-guanine phosphoribosyltransferase 1 (HPRT1)	3907,6412	5756,006118	618,8258932	10303,65186
phospholipase A2	2267,148774	2720,441254	240,703382	9314,387123
ubiquitin	15625,48068	28246,82761	2201,89844	54218,04258
transforming growth factor beta receptor III (TGFbeta receptor, betaglycan)	1,00E+00	236,9813648	221,5208814	1,00E+00
c-kit proto-oncogene ; mast/stem cell growth factor receptor (SCFR); CD117 antigen	1,00E+00	247,6688643	1,00E+00	1,00E+00
transforming growth factor beta 2 (TGF-beta 2; TGFB2)	1,00E+00	352,4638596	8,308375	1,00E+00
53 cellular tumor antigen	17,78637432	323,9088609	49,518376	1,00E+00
myb proto-oncogene; c-myb	1294,948817	1666,618801	236,328382	9317,509623

transforming growth factor beta (TGF-beta;TGFB)	125,1338695	296,4763621	39,635876	443,597006
transforming growth factor alpha (TGF-alpha;TGFA)	214,1638655	284,4013627	32,298376	138,929588
tumor necrosis factor alpha (TNF-alpha;TNFA); cachectin	306,0963614	468,0738544	57,980877	660,221948
platelet-derived growth factor beta subunit (PDGF-beta; PDGFB); sis proto-oncogene	276,1838628	446,8138554	63,028377	726,85443
p53-binding mouse double minute 2 homologue (MDM2)	303,8038615	452,0213552	45,483376	1433,38424
colony stimulating factor 1 receptor (CSF1R); fms proto-oncogene	418,4063564	678,453845	85,355877	2354,833993
insulin-like growth factor I receptor (IGF1R)	1909,33879	2689,313755	273,148383	4917,085806
erbB3 proto-oncogene; HER3	1058,981328	1033,871329	114,420878	1364,611759
myc proto-oncogene	75229,56051	70244,46324	21833,37403	118271,9479
heregulin-beta3; glial growth factor; neuregulin; GGHPP1	1,00E+00	90,15387134	190,84088	1,00E+00
neuregulin 1 (NRG1), heregulin-alpha (HRGA;HGL)	1,00E+00	122,5113699	1,00E+00	1,00E+00
erbB2 proto-oncogene; neu proto-oncogene; HER2	1,00E+00	275,2088631	1,00E+00	1,00E+00
tumor necrosis factor receptor superfamily member 1A	254,0863638	628,5013473	63,863377	391,55202
c-jun proto-oncogene	483,7713535	1011,59383	142,620879	861,964394
erbB4 proto-oncogene; HER4; neuregulin receptor	36,80387347	213,0713658	1,00E+00	1,00E+00
transcription factor DP2 (Humdp2); E2F dimerization partner	550,9213505	835,346338	135,533379	670,411945
ets translocation variant 6 (ETV6); TEL proto-oncogene	5858,071113	4166,781189	1070,943407	12127,90637
v-erbA related protein 3 (EAR3); transcription factor COUP2	320,8113608	462,1388547	66,560877	687,97694
v-erbA homologue-like 2 (EAR2); nuclear receptor subfamily 2	470,3563541	600,1163485	69,175877	2873,716354
epidermal growth factor receptor (EGF receptor; EGFR); erbB proto-oncogene	2194,113777	2927,613744	293,770884	17405,76495
triiodothyronine receptor; thyroid hormone receptor (THRA1); v-erbA-related protein ear-1	458,5613546	531,9513516	55,405876	7542,497603
MYB-related protein B (B-MYB); avian myeloblastosis viral oncogene homologue-like 2 (MYBL2)	1728,941298	2346,91127	196,453381	15130,61806
retinoic acid receptor epsilon (RAR-epsilon); retinoic acid receptor beta 2 (RAR-beta2); HAP	2106,708781	1122,083825	343,803385	1280,586781
guanine nucleotide-binding protein alpha 13 subunit (GNA13)	1,00E+00	108,9113705	214,788381	1,00E+00
14-3-3n protein eta	387,6088578	607,9388482	28,568376	1529,014215
rel A proto-oncogene	684,6588445	720,7938431	9,293375	2002,456588
nucleoside diphosphate kinase B	13001,85079	16591,98063	2145,805939	75639,14183
tight junction protein 1 (TJP1), zonula occludens (ZO1)	50,53137286	427,7263562	15,163375	1,00E+00
tyrosine-protein kinase ack	192,5038665	413,0163569	26,180876	240,16706
MOESIN-ezrin-radixin-like protein (MERLIN)	162,8113678	334,1463604	13,943375	1,00E+00
TYRO3 tyrosine-protein kinase receptor; RSE	742,9313419	842,8563377	195,145881	1541,531711
alpha 1 catenin (CTNNA1), alpha E catenin	866,9638364	1168,506323	224,748381	2798,291374
platelet-derived growth factor A subunit (PDGFA;PDGF1)	602,7013482	738,2188424	148,725879	2312,161505
thymosin beta 10 (TMSB10; THYB10)	27312,70265	31886,80495	3694,930985	207560,7964
tyrosine-protein kinase receptor UFO; axl proto-oncogene	431,5113558	554,9538506	116,503378	3366,313722
stem growth factor (SCF), mast cell growth factor (MGF); c-kit ligand	216,4838654	285,7613626	72,033377	101,232098
oncostatin M (OSM)	248,806364	335,6663604	79,010877	1,00E+00
neural retin-specific leucine zipper protein (NRL)	100,2613706	217,9263656	222,305881	1,00E+00

myeloid cell nuclear differentiation antigen (MND4)	4521,263673	3675,836211	1245,990912	6878,01778
mitochondrial transcription factor 1 (MTTF1), TCF6L1	48,69887294	291,7238623	1,00E+00	1,00E+00
colorectal mutant cancer protein (MCC)	190,8638666	432,891356	104,030878	345,604532
neurofibromatosis protein type 1 (NF1); neurofibromin	1,00E+00	200,2338664	1,00E+00	1,00E+00
pim-1 proto-oncogene	1,00E+00	118,5213701	16,495875	444,677006
X-ray repair-complementing defective repair in Chinese hamster cells	730,8063424	1440,228811	243,910882	2520,523949
transcription initiation factor IID; TATA box factor; TATA sequence-binding protein (TBP)	71,26637193	231,916365	1,00E-04	153,962083
Ku 70 k-Da subunit (Ku70)	974,2263316	1072,533827	75,140877	12399,0888
xeroderma pigmentosum group B complementing protein (XPB)	1460,90631	1511,348808	221,838381	7075,332723
papillary thyroid carcinoma-encoded protein + RET proto-oncogene	550,6613505	757,8313415	141,050879	3190,278769
mas proto-oncogene	452,3563549	546,5488509	81,380877	2190,939037
cyclin-dependent kinase 10 (CDK10); CDC2-related protein kinase PILSSRE	704,4063436	803,0938395	128,785879	1613,491692
T-lymphocyte activation CD86 antigen	1461,27381	2364,99877	406,628387	1985,534092
c-abl proto-oncogene	176,5563672	270,3863633	249,878382	3589,083662
raf1 proto-oncogene	342,3238598	410,613857	256,995882	723,164431
prohibitin (PHB)	591,2313487	970,893832	348,130885	937,931873
G1/S-specific cyclin D3 (CCND3)	542,0338509	741,1063422	341,915885	5659,913107
cell division cycle 25 homologue A (CDC25A)	775,8888404	1135,396325	385,468386	1300,534276
Wilms' tumor protein	1,00E+00	107,0663706	234,838382	1,00E+00
ski-related oncogene snoN	49,5563729	219,7863655	257,898382	1,00E+00
ski oncogene	501,1813527	927,3163339	373,625886	1123,406823
TBP associated factor 250K-Da subunit (TAF2A)	166,4838677	364,2663591	261,020883	759,934421
CDK-interacting protein 1 (CIP1); WAF1	439,8538555	848,7213374	370,955886	1096,249331
proto-oncogene tyrosine-protein kinase lck	3801,821205	5690,221121	648,165894	12258,37883
tumor suppressor LUCA1	1733,426298	1577,858805	529,845891	5880,290548
guanine nucleotide regulatory protein tim 1 nuclease-sensitive element DNA-binding protein (NSEP)	1104,468826	887,8713357	502,15339	876,79439
c-fgr proto-oncogene (p55-FGR), SRC2	148,6638685	306,6763617	264,973383	76,399604
L-myc proto-oncogene (MYCL1)	44,43887313	79,56887181	24,290876	1,00E+00
c-yes proto-oncogene; YES1	25,89137396	157,4713683	8,995875	1,00E+00
retinoblastoma-associated protein 1 (RB1)	1,00E+00	113,0938703	1,00E-04	54,00211
N-myc proto-oncogene	17,67137433	141,543869	19,955875	1,00E+00
cyclin-dependent kinase 4 inhibitor ; p16-INK4; multiple tumor suppressor 1 (MTS1)	5,953874849	221,6163655	1,00E+00	1,00E+00
colorectal cancer suppressor protein (DCC)	2,548875002	138,3563692	17,420875	1,00E+00
cell division cycle 25 homologue (CDC25)	20,24887421	177,6063674	19,960875	1,00E+00
src homology 2 protein (SHB)	669,2663452	706,6538438	163,13338	1620,95169
ras homologue gene family member A	25651,23273	27397,37765	5520,988539	52490,46304
c-rel proto-oncogene protein	304,2113615	293,0563623	41,318376	5096,993258
C-src proto-oncogene (SRC1)	1812,156294	1798,301295	183,21838	5437,068166
cyclin D2 (CCND2)	441,9313554	367,5163589	85,383377	770,651918
G1/S-specific cyclin D1 (CCND1)	2803,11875	2057,371283	646,960894	4011,996049
phosphatidylinositol 3 kinase catalytic subunit alpha isoform (PI3 kinase)	1,00E+00	66,54637239	181,67588	1,00E+00
beta 1 catenin (CTNNB)	87,33387121	305,4588617	1,00E-04	6,774623
fas-activated serine/threonine kinase (FAST)	1021,263829	1610,671303	317,503384	7688,440063
c-src kinase (CSK); protein tyrosine-kinase	946,4838328	1629,126303	199,295881	8524,587343

cyl

junD proto-oncogene	1,00E+00	150,1363687	7,370875	1,00E+00
ezrin	3479,94872	4927,666155	947,265903	11403,37906
FOS-related antigen 1 (FRA1); FOS-like antigen (FOSL1)	264,2763633	601,7138485	74,938377	270,039552
FOS-related antigen 2 (FRA2), FOS-like antigen (FOSL2)	29,4863738	166,5788679	62,078377	1,00E+00
n-ras proto-oncogene; transforming protein p21	333,6863602	664,2238457	106,808378	1876,091622
breast cancer type 2 susceptibility protein (BRCA2)	398,0213573	338,6788602	101,718378	226,622064
cyclin-dependent kinase 4 inhibitor 2D; p19-INK4D	464,0413544	792,6388399	84,810877	1992,09659
receptor interacting protein (RIP)	152,5138683	242,4138645	58,750877	1,00E+00
adenomatous polyposis coli protein (APC)	65,47887219	222,4338654	33,213376	1,00E+00
G1/S-specific cyclin E (CCNE)	109,0863702	3,338875219	57,305877	417,032013
C-1 protein; prefolin 4	250,0163639	302,9338618	240,093382	342,624533
integrin-linked kinase (ILK)	1,00E+00	79,09387183	1,00E-04	1,00E+00
erythrocyte urea transporterr (UTE)	115,45887	320,806361	20,130875	3070,726301
ataxia telangiectasia mutated protein (ATM)	1,00E+00	94,80887113	16,775875	1,00E+00
CBL-B	40,5338733	291,3563623	1,00E+00	1,00E+00
EB1 protein	3309,946227	5817,966115	435,088388	20185,94421
cyclin-dependent kinase inhibitor 1C; p57; KIP2	182,168867	409,991357	45,618376	79,339603
wee1Hu CDK tyrosine 15-kinase; wee-1-like protein kinase	652,003846	1158,191324	118,370878	1706,804167
CDC-like kinase 1 (CLK1)	1,00E+00	140,6088691	2,240875	1,00E+00
CDC-like kinase 3 (CLK3)	214,9988655	391,8238579	98,013378	639,324453
CDC-like kinase 2 (CLK2)	44,9888731	244,0338645	32,943376	1,00E+00
ETS oncogene (PEP1)	53,74387271	288,4363625	20,845875	1,00E+00
transducer of erbB2 (TROB;TOB)	842,7513374	1666,763801	306,510884	2997,018821
bcl-2	1,00E+00	86,10137152	50,983376	575,91197
semaphorin III (SEMA3)	1,00E+00	452,9013551	188,21338	1,00E+00
cell division protein kinase 9 (CDK9); serine/threonine protein kinase PITALRE	395,9538574	1221,991321	62,388377	885,856887
E2F dimerization partner	1940,668788	3929,9237	476,460889	10845,64171
5T4 oncofetal antigen	36,90137347	814,8313389	1,00E-04	1,00E+00
RBQ1 retinoblastoma binding protein	354,0163593	1576,678805	60,848377	991,696859
retinoblastoma binding protein 4 (RBBP4)	7697,623531	11968,34334	1187,75841	17503,97493
delta lactoferrin	3,113874976	748,4763419	1,00E+00	1,00E+00
cyclin-dependent kinase 4 inhibitor2B, p14-INK4B; multiple tumor suppressor 2 (MTS2)	57,14387256	794,0088399	44,450876	1,929624
cell division cycle 25 homologue B (CDC25B)	1061,313828	2554,608761	225,735882	4720,043359
DNA damage repair 6recombination protein 50 homologue (RAD50)	1,00E+00	621,9163476	19,533375	1,00E+00
neogenin	66,99637212	752,7538417	61,738377	1,00E+00
semaphorin; CD100 antigen	1,00E+00	517,6488522	44,528376	1,00E+00
TGF-beta signalling protein (BSP1)	108,2313703	740,4688423	61,830877	1,00E+00
tyrosine kinase tnk1	175,2638673	924,306334	108,903378	262,402054
wingless-realted MMTV integration site 2 protein	1,00E+00	445,0513555	195,740881	1,00E+00
FKBP-rapamycin associated protein (FRAP)	35,28137354	621,5888476	1,00E+00	1,00E+00
dishevelled (DVL) + dishevelled 3 (DVL3)	857,9313368	2106,776281	161,94838	3532,646177
dishevelled homologue 1-like protein	1804,271294	3196,186232	572,965892	6316,560431
frizzled homologue 5 (FZD5)	40,80387329	715,3713434	1,00E+00	1,00E+00
semaphorin III/F (SEMA3F); semaphorin IV	166,6863677	746,568842	21,343375	1,00E+00
E2F transcription factor 5 (E2F5)	133,9288691	782,0913404	46,178376	2,427124

neurogenic locus notch protein	647,7188462	1491,846309	80,945877	824,396904
B-raf proto-oncogene (RAF1)	430,3838559	1288,451318	146,510879	350,232031
neurogenic locus notch protein homologue 1	1257,196319	2025,341285	565,460892	2040,971577
cell division cycle 25 homologue C (CDC25C)	1,00E+00	563,5213502	39,838376	1,00E+00
jun-B	1,00E+00	500,933853	18,850875	1,00E+00
wingless-realted MMTV integration site 5a protein	463,5238544	905,0988349	132,390879	1,00E+00
frizzled homologue 2	1,00E+00	399,2613575	63,555877	1,00E+00
retinoblastoma-like 2 protein 2, 130 K-Da retinoblastoma-associated protein	103,5338705	280,7813628	1,00E-04	658,946948
serine/threonine kinase PCTAIRE 1	885,6438355	1335,816316	258,195882	4577,520897
serine/threonine kinase PCTAIRE 3	136,193869	179,4863673	1,00E+00	155,959583
serine/threonine kinase PCTAIRE 2	1,00E+00	1,00E+00	1,00E+00	1,00E+00
glycogen synthase kinase 3 alpha	1821,583794	3224,623731	574,230892	6159,125473
MDM2-like p53-binding protein (MDMX)	239,8888644	393,1113578	1,00E-04	4997,088284
p33ING1	286,1288623	522,153852	21,273375	2252,116521
semaphorin E	1,00E+00	1,00E+00	1,00E+00	1,00E+00
wingless-realted MMTV integration site 13 protein	1,00E+00	1,00E+00	1,00E-04	1,00E+00
RBQ-3	30,13137377	103,7738707	1,00E+00	1,00E+00
frizzled homologue 9	1800,308795	4101,468692	394,598387	11426,47656
BRCA1-associated ring domain protein 1 (BARD1)	14,54387447	115,6063702	1,00E+00	8,022123
p53-dependent cell growth regulator CGR19	1,00E+00	1,00E+00	1,00E+00	1,00E+00
hyaluronan receptor	1,00E+00	1,00E+00	1,00E+00	1,00E+00
c-myc-binding protein MM-1; prefoldin 5 wingless-realted MMTV integration site 8b protein	3558,906216	6983,868563	1196,64591	32287,52846
p73 (monoallelically expressed p53-related protein)	1,556375046	45,71887332	1,00E+00	1,00E+00
neurogenic locus notch protein homologue 4	1,00E+00	1,00E+00	1,00E+00	1,00E+00
tumor necrosis factor receptor superfamily member 10A	654,9338458	1570,063805	162,46088	3399,903713
smoothened homologue	1,00E+00	1,00E+00	1,00E+00	1,00E+00
neurogenic locus notch protein homologue 2	522,4538518	1045,301329	183,01838	1651,376682
semaphorin 1	528,3938515	990,2013311	71,365877	1989,501591
beta-catenin	1,00E+00	1,00E+00	1,00E+00	76,232104
E2f transcription factor 3 (E2F3)	322,1863607	406,4863572	113,168378	258,124556
wingless-realted MMTV integration site 10b protein	1304,353817	2393,756268	401,433387	2520,203949
akt1 proto-oncogene	1,00E+00	1,00E+00	1,00E+00	1,00E+00
v-Ki-RAS2B proto-oncogene	2498,598763	4854,861158	608,208393	26119,41012
sonic hedgehog (SHH)	66,16137216	28,68137409	1,00E+00	423,242011
CD82 antigen	1,00E+00	1,00E+00	1,00E+00	1,00E+00
c-fos proto-oncogene	901,6738348	1625,201303	193,418381	2815,57887
ZAP70	1,00E+00	1,00E+00	1,00E+00	1,00E+00
frizzled-related FrzB (FRITZ)	22724,59536	32680,08991	7446,703597	138268,4525
PRB-binding protein E2F1, retinoblastoma-binding protein 3	177,8188672	98,72637095	1,00E+00	318,309539
Abl interactor 2 (Abl-2) + Abl binding protein 2 (AblBP3)	976,1663315	2079,501282	151,985879	8329,317393
retinoblastoma-binding protein 1 (RBP1) isoform I + isoform III	0,558875091	1,00E+00	1,00E+00	1,00E+00
STAT2; STAT113	1,00E+00	1,00E+00	1,00E+00	1,00E+00
Abelson murine leukemia viral oncogene homologue 2 (ABL2)	241,5513643	87,70387145	1,818375	2180,87404
tumor necrosis factor receptor superfamily member 10B	91,84887101	115,2138702	1,00E+00	340,952033
	64,82387222	60,66637266	1,00E+00	176,514577

Bruton's tyrosine kinase (BTK)	1,00E+00	1,00E+00	1,00E+00	1,00E+00
STAT1	285,8488623	585,6063492	75,830877	1419,051744
protein expressed in non-metastatic cells 3	1,00E+00	1,00E+00	1,00E+00	1,00E+00
DNA mismatch repair protein MSH2	1,00E+00	1,00E+00	1,00E+00	1,00E+00
RBP2 retinoblastoma binding protein	1,00E+00	1,00E+00	1,00E+00	1,00E+00
CDC2-related protein CHED	67,88137208	125,4538698	31,710876	1,00E+00
STAT5A; STAT5B	1628,836302	2099,168782	458,140888	3363,856223
cyclin-dependent kinase-like 1 (CDL1)	1,00E+00	1,00E+00	1,00E+00	1,00E+00
DNA mismatch repair protein MSH6	1,00E+00	1,00E+00	1,00E+00	85,107102
synapse-associated protein 102 (SAP102)	554,9488503	690,6563445	281,528383	1042,186845
met proto-oncogene	1,00E+00	1,00E+00	1,00E+00	1,00E+00
patched homologue (PTC)	1,00E+00	1,00E+00	1,00E+00	1,00E+00

A.2.3. Datos normalizados por el control interno (GAPDH)

NOMBRE DE LOS GENES	CONTROL	IC ₇₅ Daunorubicina	IC ₅₀ Daunorubicina	IC ₇₅ WP631
40 s ribosomal protein S9 (RPS9)	11100,38838	10964,46585	23603,93324	54711,26675
23-kDa highly basic protein; ribosomal protein L13A (RPL13A)	77492,31541	71968,09762	157218,8148	172325,4692
cytoplasmic beta-actin (ACTB)	138996,8627	81561,44463	90024,96162	187475,7034
major histocompatibility complex class I (HLAC)	11921,91834	11609,34155	10503,00889	17173,92816
tubulin alpha 1 (TUBA1)	32578,19242	29740,91067	68826,27061	65902,78741
liver glyceraldehyde 3-phosphate dehydrogenase (GAPDH, G3PDH)	199359,3775	199359,3774	199359,3775	199359,3777
hypoxanthine-guanine phosphoribosyltransferase 1 (HPRT1)	3907,6412	4398,02211	4762,91218	4608,04647
phospholipase A2	2267,14877	2078,62197	1852,61975	4165,622953
ubiquitin	15625,48068	21582,70331	16947,33368	24247,64181
transforming growth factor beta receptor III (TGFbeta receptor, betaglycan)	1,00E+00	181,07161	1704,97795	1,00E+00
c-kit proto-oncogene ; mast/stem cell growth factor receptor (SCFR); CD117 antigen	1,00E+00	189,23766	1,00E+00	1,00E+00
transforming growth factor beta 2 (TGF-beta 2; TGFB2)	1,00E+00	269,30893	63,947	1,00E+00
p53 cellular tumor antigen	17,78637	247,49076	381,12768	1,00E+00
myb proto-oncogene; c-myb	1294,94882	1273,42226	1818,94672	4167,019412
transforming growth factor beta (TGF-beta;TGFB)	125,13387	226,53027	305,06512	198,3874887
transforming growth factor alpha (TGF-alpha;TGFA)	214,16387	217,30406	248,59065	62,13272789
tumor necrosis factor alpha (TNF-alpha;TNFA); cachectin platelet-derived growth factor beta subunit (PDGF-beta; PDGFB); sis proto-oncogene	306,09636	357,64367	446,26094	295,2674893
p53-binding mouse double minute 2 homologue (MDM2) colony stimulating factor 1 receptor (CSF1R); fms proto-oncogene	303,80386	345,37835	350,07153	641,0446776
insulin-like growth factor I receptor (IGF1R)	418,40636	518,38983	656,95788	1053,139665
erbB3 proto-oncogene; HER3	1909,33879	2054,83822	2102,33892	2199,041679
erbB3 proto-oncogene; HER3	1058,98133	789,95555	880,66223	610,2879331
myc proto-oncogene	75229,56051	53672,05939	168044,751	52894,1233
heregulin-beta3; glial growth factor; neuregulin; GGHPP1	1,00E+00	68,88435	1468,84344	1,00E+00
neuregulin 1 (NRG1), heregulin-alpha (HRGA;HGL)	1,00E+00	93,60791	1,00E+00	1,00E+00
erbB2 proto-oncogene; neu proto-oncogene; HER2	1,00E+00	210,28029	1,00E+00	1,00E+00
tumor necrosis factor receptor superfamily member 1A	254,08636	480,22236	491,53673	175,1116912
c-jun proto-oncogene	483,77135	772,93386	1097,70895	385,4916718
erbB4 proto-oncogene; HER4; neuregulin receptor	36,80387	162,80257	1,00E+00	1,00E+00

transcription factor DP2 (Humdp2); E2F dimerization partner	550,92135	638,2675	1043,15865	299,8247066
ets translocation variant 6 (ETV6); TEL proto-oncogene	5858,07111	3183,73459	8242,72135	5423,897943
v-erbA related protein 3 (EAR3); transcription factor COUP2	320,81136	353,10888	512,29856	307,6802042
v-erbA homologue-like 2 (EAR2); nuclear receptor subfamily 2	470,35635	458,53408	532,42541	1285,196615
epidermal growth factor receptor (EGF receptor; EGFR); erbB proto-oncogene	2194,11378	2236,91735	2261,06396	7784,286077
triiodothyronine receptor; thyroid hormone receptor (THRA1); v-erbA-related protein ear-1	458,56135	406,45089	426,44195	3373,190391
MYB-related protein B (B-MYB); avian myeloblastosis viral oncogene homologue-like 2 (MYBL2)	1728,9413	1793,21694	1512,04113	6766,784445
retinoic acid receptor epsilon (RAR-epsilon); retinoic acid receptor beta 2 (RAR-beta2); HAP	2106,70878	857,35654	2646,1487	572,7098968
guanine nucleotide-binding protein alpha 13 subunit (GNA13)	1,00E+00	83,21649	1653,15997	1,00E+00
14-3-3n protein eta	387,60886	464,51106	219,88199	683,8127539
rel A proto-oncogene	684,65884	550,74077	71,52824	895,5478246
nucleoside diphosphate kinase B	13001,85079	12677,5226	16515,60699	33827,68412
tight junction protein 1 (TJP1), zonula occludens (ZO1)	50,53137	326,81514	116,70782	1,00E+00
tyrosine-protein kinase ack	192,50387	315,5756	201,50613	107,4086147
MOESIN-ezrin-radixin-like protein (MERLIN)	162,81137	255,31298	107,31786	1,00E+00
TYRO3 tyrosine-protein kinase receptor; RSE	742,93134	644,00571	1501,9777	689,4108859
alpha 1 catenin (CTNNA1), alpha E catenin	866,96384	892,82682	1729,81902	1251,46471
platelet-derived growth factor A subunit (PDGFA;PDGF1)	602,70135	564,05478	1144,69725	1034,055479
thymosin beta 10 (TMSB10; THYB10)	27312,70265	24363,92009	28438,74504	92826,29187
tyrosine-protein kinase receptor UFO; axl proto-oncogene stem growth factor (SCF), mast cell growth factor (MGF); c-kit ligand	431,51136	424,02653	896,69059	1505,498271
oncostatin M (OSM)	216,48387	218,3432	554,4187	45,27348342
neural retin-specific leucine zipper protein (NRL)	248,80636	256,47438	608,12237	1,00E+00
myeloid cell nuclear differentiation antigen (MNDA)	100,26137	166,51215	1711,01985	1,00E+00
mitochondrial transcription factor 1 (MTTF1), TCF6L1	4521,26367	2808,61566	9590,00804	3076,018675
colorectal mutant cancer protein (MCC)	48,69887	222,899	1,00E+00	1,00E+00
neurofibromatosis protein type 1 (NF1); neurofibromin	190,86387	330,76159	800,69361	154,5628448
pim-1 proto-oncogene	1,00E+00	152,99375	1,00E+00	1,00E+00
X-ray repair-complementing defective repair in Chinese hamster cells	1,00E+00	90,55925	126,96367	198,8704912
transcription initiation factor IID; TATA box factor; TATA sequence-binding protein (TBP)	730,80634	1100,44326	1877,30689	1127,240287
Ku 70 k-Da subunit (Ku70)	68,26637	177,20157	1,00E+00	68,85562929
xeroderma pigmentosum group B complementing protein (XPB)	974,22633	819,49661	578,33617	5545,177394
papillary thyroid carcinoma-encoded protein + RET proto-oncogene	1460,90631	1154,7843	1707,42165	3164,262769
mas proto-oncogene	550,66135	579,04021	1085,62515	1426,771111
cyclin-dependent kinase 10 (CDK10); CDC2-related protein kinase PILSSRE	452,35635	417,60448	626,36353	979,8418103
T-lymphocyte activation CD86 antigen	704,40634	613,62417	991,22522	721,5931588
c-abl proto-oncogene	1461,27381	1807,03715	3129,69337	887,9796682
raf1 proto-oncogene	176,55637	206,59554	1923,2369	1605,126466
prohibitin (PHB)	342,32386	313,73991	1978,0181	323,4169154
G1/S-specific cycline D3 (CCND3)	591,23135	741,836	2679,45613	419,4661964
cell division cycle 25 homologue A (CDC25A)	542,03385	566,26105	2631,62119	2531,252313
Wilms' tumor protein	775,88884	867,52829	2966,83137	581,6309071
ski-related oncogene snoN	1,00E+00	81,80677	1807,47865	1,00E+00
ski oncogene	49,55637	167,93333	1984,96436	1,00E+00
TBP associated factor 250K-Da subunit (TAF2A)	501,18135	708,53951	2875,6833	502,4151547
	166,48387	278,32693	2008,99729	339,8613591

CDK-interacting protein 1 (CIP1); WAF1	439,85386	648,48701	2855,13313	490,2696565
proto-oncogene tyrosine-protein kinase lck	3801,82121	4347,75742	4988,73313	5482,248435
tumor suppressor LUCA1	1733,4263	1205,60294	4078,06053	2629,810524
guanine nucleotide regulatory protein tim 1	1104,46883	678,40056	3864,91988	392,1240107
nuclease-sensitive element DNA-binding protein (NSEP)	122384,8034	104287,6333	466397,2814	124591,851
c-fgr proto-oncogene (p55-FGR), SRC2	148,66387	234,32383	2039,41847	34,1677815
L-myc proto-oncogene (MYCL1)	44,43887	60,79661	186,95939	1,00E+00
c-yes proto-oncogene; YES1	25,89137	120,31998	69,23848	1,00E+00
retinoblastoma-associated protein 1 (RB1)	1,00E+00	86,41223	1,00E+00	24,15107145
N-myc proto-oncogene	17,67137	108,15017	153,59422	1,00E+00
cyclin-dependent kinase 4 inhibitor ; p16-INK4; multiple timor suppressor 1 (MTS1)	5,95387	169,33159	1,00E+00	1,00E+00
colorectal cancer suppressor protein (DCC)	2,54888	105,71468	134,08311	1,00E+00
cell division cycle 25 homologue (CDC25)	20,24887	135,70464	153,6327	1,00E+00
src homology 2 protein (SHB)	669,26635	539,93675	1255,58735	724,9294533
ras homologue gene family member A	25651,23273	20933,65958	42493,34725	23475,02576
c-rel proto-oncogene protein	304,21136	223,91713	318,01481	2279,500715
C-src proto-oncogene (SRC1)	1812,15629	1374,0376	1410,1754	2431,590576
cyclin D2 (CCND2)	441,93136	280,81017	657,16954	344,6544873
G1/S-specific cyclin D1 (CCND1)	2803,11875	1571,98658	4979,45861	1794,263284
phosphatidylinositol 3 kinase catalytic subunit alpha isoform (PI3 kinase)	1,00E+00	50,84644	1398,30326	1,00E+00
beta 1 catenin (CTNNB)	87,33387	233,39357	1,00E+00	3,029777987
fas-activated serine/threonine kinase (FAST)	1021,26383	1230,67416	2443,72569	3438,459447
c-src kinase (CSK); protein tyrosine-kinase cyl	946,48383	1244,77517	1533,91897	3812,405071
junD proto-oncogene	1,00E+00	114,71549	56,73135	1,00E+00
ezrin	3479,94872	3765,108	7290,81371	5099,871515
FOS-related antigen 1 (FRA1); FOS-like antigen (FOSL1)	264,27636	459,75469	576,77759	120,7683277
FOS-related antigen 2 (FRA2), FOS-like antigen (FOSL2)	29,48637	127,2788	477,79814	1,00E+00
n-ras proto-oncogene; transforming protein p21	333,68636	507,51703	876,07117	839,0343046
breast cancer type 2 susceptibility protein (BRCA2)	398,02136	258,77615	782,89501	101,3509594
cyclin-dependent kinase 4 inhibitor 2D; p19-INK4D	464,04135	605,63576	652,76318	890,9145787
receptor interacting protein (RIP)	152,51387	185,22245	452,18739	1,00E+00
adenomatous polyposis coli protein (APC)	65,47887	169,95622	255,63312	1,00E+00
G1/S-specific cyclin E (CCNE)	109,08637	2,55115	441,06567	186,5069706
C-1 protein; prefoldin 4	250,01636	231,46428	1847,92477	153,230116
integrin-linked kinase (ILK)	1,00E+00	60,43367	1,00E+00	1,00E+00
erythrocyte urea transporterr (UTE)	115,45887	245,12022	154,94114	1373,304308
ataxia telangiectasia mutated protein (ATM)	1,00E+00	72,44112	129,11874	1,00E+00
CBL-B	40,53387	222,6182	1,00E+00	1,00E+00
EB1 protein	3309,94623	4445,36421	3348,74123	9027,650604
cyclin-dependent kinase inhibitor 1C; p57; KIP2	182,16887	313,26427	351,11058	35,48262134
wee1Hu CDK tyrosine 15-kinase; wee-1-like protein kinase	652,00385	884,94538	911,06417	763,3247921
CDC-like kinase 1(CLK1)	1,00E+00	107,43576	17,24732	1,00E+00
CDC-like kinase 3 (CLK3)	214,99887	299,38293	754,37876	285,9216157
CDC-like kinase 2 (CLK2)	44,98887	186,46025	253,55501	1,00E+00
ETS oncogene (PEP1)	53,74387	220,3871	160,44428	1,00E+00
transducer of erbB2 (TROB;TOB)	842,75134	1273,53305	2359,11981	1340,34051
bcl-2	1,00E+00	65,78793	392,40333	257,5619941
semaphorin III (SEMA3)	1,00E+00	346,05074	1448,62038	1,00E+00
cell division protein kinase 9 (CDK9); serine/threonine protein kinase PITALRE	395,95386	933,69339	480,18411	396,1769822
E2F dimerization partner	1940,66879	3002,75763	3667,17262	4850,437658

5T4 oncofetal antigen	36,90137	622,5925	1,00E+00	1,00E+00
RBQ1 retinoblastoma binding protein	354,01636	1204,70133	468,3312	443,5112202
retinoblastoma binding protein 4 (RBBP4)	7697,62353	9144,71554	9141,81042	7828,207995
delta lactoferrin	3,11387	571,89229	1,00E+00	1,00E+00
cyclin-dependent kinase 4 inhibitor2B, p14-INK4B; multiple tumor suppressor 2 (MTS2)	57,14387	606,68254	342,12469	0,8629753
cell division cycle 25 homologue B (CDC25B)	1061,31383	1951,91346	1737,41951	2110,919451
DNA damage repair 6recombination protein 50 homologue (RAD50)	1,00E+00	475,19092	150,34237	1,00E+00
neogenin	66,99637	575,16062	475,18126	1,00E+00
semaphorin; CD100 antigen	1,00E+00	395,5227	342,72119	1,00E+00
TGF-beta signalling protein (BSP1)	108,23137	565,77395	475,8932	1,00E+00
tyrosine kinase tnk1	175,26387	706,23964	838,19574	117,3526508
wingless-realted MMTV integration site 2 protein	1,00E+00	340,05275	1506,55724	1,00E+00
FKBP-rapamycin associated protein (FRAP)	35,28137	474,94069	1,00E+00	1,00E+00
dishevelled (DVL) + dishevelled 3 (DVL3)	857,93134	1609,73572	1246,46677	1579,886235
dishevelled homologue 1-like protein	1804,27129	2442,12696	4409,94189	2824,921143
frizzled homologue 5 (FZD5)	40,80387	546,59757	1,00E+00	1,00E+00
semaphorin III/F (SEMA3F); semaphorin IV	166,68637	570,43481	164,27338	1,00E+00
E2F transcription factor 5 (E2F5)	133,92887	597,57668	355,42073	1,085469533
neurogenic locus notch protein	647,71885	1139,88292	623,01547	368,6905666
B-raf proto-oncogene (RAFB1)	430,38386	984,47383	1127,64908	156,6323761
neurogenic locus notch protein homologue 1	1257,19632	1547,51325	4352,17821	912,7726747
cell division cycle 25 homologue C (CDC25C)	1,00E+00	430,57275	306,6237	1,00E+00
jun-B	1,00E+00	382,75118	145,08938	1,00E+00
wingless-realted MMTV integration site 5a protein	463,52385	691,56366	1018,97179	1,00E+00
frizzled homologue 2	1,00E+00	305,06574	489,17	1,00E+00
retinoblastoma-like 2 protein 2, 130 K-Da retinoblastoma-associated protein	103,53387	214,5381	1,00E+00	294,697278
serine/threonine kinase PCTAIRE 1	885,64384	1020,66425	1987,25413	2047,179902
serine/threonine kinase PCTAIRE 3	136,19387	137,1411	1,00E+00	69,74896041
serine/threonine kinase PCTAIRE 2	1,00E+00	1,00E+00	1,00E+00	1,00E+00
glycogen synthase kinase 3 alpha	1821,58379	2463,85535	4419,6782	2754,512358
MDM2-like p53-binding protein (MDMX)	239,88886	300,36668	1,00E+00	2234,820754
p33ING1	286,12886	398,96486	163,73461	1007,201885
semaphorin E	1,00E+00	1,00E+00	1,00E+00	1,00E+00
wingless-realted MMTV integration site 13 protein	1,00E+00	1,00E+00	1,00E+00	1,00E+00
RBQ-3	30,13137	79,29105	1,00E+00	1,00E+00
frizzled homologue 9	1800,3088	3133,83093	3037,10217	5110,201285
BRCA1-associated ring domain protein 1 (BARD1)	14,54387	88,33197	1,00E+00	3,587690662
p53-dependent cell growth regulator CGR19	1,00E+00	1,00E+00	1,00E+00	1,00E+00
hyaluronan receptor	1,00E+00	1,00E+00	1,00E+00	1,00E+00
c-myc-binding protein MM-1; prefoldin 5	3558,90622	5336,20148	9210,21477	14439,77665
wingless-realted MMTV integration site 8b protein	1,55638	34,93266	1,00E+00	1,00E+00
p73 (monoallelically expressed p53-related protein)	1,00E+00	1,00E+00	1,00E+00	1,00E+00
neurogenic locus notch protein homologue 4	654,93385	1199,64698	1250,41132	1520,520541
tumor necrosis factor receptor superfamily member 10A	1,00E+00	1,00E+00	1,00E+00	1,00E+00
smoothened homologue	522,45385	798,68893	1408,63607	738,5362579
neurogenic locus notch protein homologue 2	528,39385	756,58838	549,28116	889,7540313
semaphorin 1	1,00E+00	1,00E+00	1,00E+00	34,09287138
beta-catenin	322,18636	310,58619	871,02213	115,4396485
E2f transcription factor 3 (E2F3)	1304,35382	1829,01004	3089,70906	1127,097175
wingless-realted MMTV integration site 10b protein	1,00E+00	1,00E+00	1,00E+00	1,00E+00

akt1 proto-oncogene	2498,59876	3709,4795	4681,19256	11681,24246
v-Ki-RAS2B proto-oncogene	66,16137	21,91473	1,00E+00	189,2842344
sonic hedgehog (SHH)	1,00E+00	1,00E+00	1,00E+00	1,00E+00
CD82 antigen	901,67383	1241,77618	1488,68167	1259,196103
c-fos proto-oncogene	1,00E+00	1,00E+00	1,00E+00	1,00E+00
ZAP70	22724,59536	24970,04954	57314,98256	61837,05185
frizzled-related FrzB (FRITZ)	177,81887	75,43438	1,00E+00	142,3558528
PRB-binding protein E2F1, retinoblastoma-binding protein 3	976,16633	1588,89557	1169,78847	3725,075548
Abl interactor 2 (Abl-2) + Abl binding protein 2 (AblBP3)	0,55888	1,00E+00	1,00E+00	1,00E+00
retinoblastoma-binding protein 1 (RBP1) isoform I + isoform III	1,00E+00	1,00E+00	1,00E+00	1,00E+00
STAT2; STAT113	241,55136	67,01236	13,99547	975,3404962
Abelson murine leukemia viral oncogene homologue 2 (ABL2)	91,84887	88,03207	1,00E+00	152,4821328
tumor necrosis factor receptor superfamily member 10B	64,82387	46,35368	1,00E+00	78,94165915
Bruton's tyrosine kinase (BTK)	1,00E+00	1,00E+00	1,00E+00	1,00E+00
STAT1	285,84886	447,44735	583,64689	634,634833
protein expressed in non-metastatic cells 3	1,00E+00	1,00E+00	1,00E+00	1,00E+00
DNA mismatch repair protein MSH2	1,00E+00	1,00E+00	1,00E+00	1,00E+00
RBP2 retinoblastoma binding protein	1,00E+00	1,00E+00	1,00E+00	1,00E+00
CDC2-related protein CHED	67,88137	95,8562	244,06884	1,00E+00
STAT5A; STAT5B	1628,8363	1603,92302	3526,16922	1504,399217
cyclin-dependent kinase-like 1 (CDL1)	1,00E+00	1,00E+00	1,00E+00	1,00E+00
DNA mismatch repair protein MSH6	1,00E+00	1,00E+00	1,00E+00	38,06198871
synapse-associated protein 102 (SAP102)	554,94885	527,71345	2166,8372	466,0915834
met proto-oncogene	1,00E+00	1,00E+00	1,00E+00	1,00E+00
patched homologue (PTC)	1,00E+00	1,00E+00	1,00E+00	1,00E+00

A.2.4. Relación de señales tratamientos/control

NOMBRE DE LOS GENES	IC ₇₅ DAU/CONTROL	IC ₅₀ DAU/CONTROL	IC ₇₅ WP631/CONTROL
40 s ribosomal protein S9 (RPS9)	0,987755155	2,126406071	4,928770497
23-kDa highly basic protein; ribosomal protein L13A (RPL13A)	0,928712702	2,028831039	2,223774942
cytoplasmic beta-actin (ACTB)	0,586786227	0,647676213	1,34877651
major histocompatibility complex class I (HLAC)	0,973781334	0,880983126	1,440533954
tubulin alpha 1 (TUBA1)	0,912908558	2,112648539	2,022911111
liver glyceraldehyde 3-phosphate dehydrogenase (GAPDH, G3PDH)	1	1	1
hypoxanthine-guanine phosphoribosyltransferase 1 (HPRT1)	1,125492819	1,21887142	1,179239913
phospholipase A2	0,916844098	0,817158439	1,837384031
Ubiquitin	1,38125052	1,08459599	1,551801337
transforming growth factor beta receptor III (TGFbeta receptor, betaglycan)	181,07161	1704,97795	1,00E+00
c-kit proto-oncogene ; mast/stem cell growth factor receptor (SCFR); CD117 antigen	189,23766	1,00E+00	1,00E+00
transforming growth factor beta 2 (TGF-beta 2; TGFB2)	269,30893	63,947	1,00E+00
p53 cellular tumor antigen	13,91463014	21,42807554	5,62E-02
myb proto-oncogene; c-myb	0,983376517	1,404647575	3,217902791
transforming growth factor beta (TGF-beta,TGFB)	1,810303397	2,437910056	1,585402014
transforming growth factor alpha (TGF-alpha;TGFA)	1,014662557	1,16074971	0,290117699

tumor necrosis factor alpha (TNF-alpha;TNFA); cachectin	1,168402231	1,457909986	0,96462267
platelet-derived growth factor beta subunit (PDGF-beta; PDGFB); sis proto-oncogene	1,236130996	1,756474799	1,176995536
p53-binding mouse double minute 2 homologue (MDM2)	1,136846484	1,152294543	2,110060993
colony stimulating factor 1 receptor (CSF1R); fms proto-oncogene	1,238962596	1,57014315	2,51702597
insulin-like growth factor I receptor (IGF1R)	1,076204093	1,101082181	1,151729431
erbB3 proto-oncogene; HER3	0,745957958	0,831612612	0,576297161
myc proto-oncogene	0,713443745	2,233759574	0,703102915
heregulin-beta3; glial growth factor; neuregulin; GGHPP1	68,88435	1468,84344	1,00E+00
neuregulin 1 (NRG1), heregulin-alpha (HRGA;HGL)	93,60791	1,00E+00	1,00E+00
erbB2 proto-oncogene; neu proto-oncogene; HER2	210,28029	1,00E+00	1,00E+00
tumor necrosis factor receptor superfamily member 1A	1,889996614	1,934526237	0,689181775
c-jun proto-oncogene	1,597725578	2,269065644	0,796846835
erbB4 proto-oncogene; HER4; neuregulin receptor transcription factor DP2 (Humdp2); E2F dimerization partner	4,42351769	2,72E-02	2,72E-02
ets translocation variant 6 (ETV6); TEL proto-oncogene	0,543478311	1,407070893	0,925884619
v-erbA related protein 3 (EAR3); transcription factor COUP2	1,10067449	1,5968841	0,959068916
v-erbA homologue-like 2 (EAR2); nuclear receptor subfamily 2	0,974865291	1,131961777	2,732389185
epidermal growth factor receptor (EGF receptor; EGFR); erbB proto-oncogene	1,019508364	1,030513541	3,547804202
triiodothyronine receptor; thyroid hormone receptor (THRA1); v-erbA-related protein ear-1	0,886360985	0,929956155	7,356028495
MYB-related protein B (B-MYB); avian myeloblastosis viral oncogene homologue-like 2 (MYBL2)	1,0371763	0,874547407	3,913831229
retinoic acid receptor epsilon (RAR-epsilon); retinoic acid receptor beta 2 (RAR-beta2); HAP	0,406964906	1,256058134	0,271850529
guanine nucleotide-binding protein alpha 13 subunit (GNA13)	83,21649	1653,15997	1,00E+00
14-3-3n protein eta	1,198401554	0,567278029	1,764182475
rel A proto-oncogene	0,804401751	0,10447282	1,30802053
nucleoside diphosphate kinase B	0,975055229	1,270250463	2,601759139
tight junction protein 1 (TJP1), zonula occludens (ZO1)	6,467569353	2,309611238	1,98E-02
tyrosine-protein kinase ack	1,639320809	1,046764047	0,557955623
MOESIN-ezrin-radixin-like protein (MERLIN)	1,568152028	0,659154579	6,14E-03
TYRO3 tyrosine-protein kinase receptor; RSE	0,866844182	2,02169113	0,927960428
alpha 1 catenin (CTNNA1), alpha E catenin	1,029831671	1,995260863	1,443502782
platelet-derived growth factor A subunit (PDGFA;PDGF1)	0,935877744	1,899277727	1,715701287
Thymosin beta 10 (TMSB10; THYB10)	0,892036222	1,041227791	3,398649085
tyrosine-protein kinase receptor UFO; axl proto-oncogene	0,982654385	2,078023137	3,488896064
stem growth factor (SCF), mast cell growth factor (MGF); c-kit ligand	1,008588769	2,561016209	0,209130982
oncostatin M (OSM)	1,030819228	2,444159265	4,02E-03
neural retin-specific leucine zipper protein (NRL)	1,660780717	17,06559416	9,97E-03
myeloid cell nuclear differentiation antigen (MND A)	0,621201475	2,121090195	0,680344899
mitochondrial transcription factor 1 (MTTF1), TCF6L1	4,577087723	2,05E-02	2,05E-02
colorectal mutant cancer protein (MCC)	1,732971201	4,195103086	0,809806736
neurofibromatosis protein type 1 (NF1); neurofibromin	152,99375	1,00E+00	1,00E+00
pim-1 proto-oncogene	90,55925	126,96367	198,8704912
X-ray repair-complementing defective repair in Chinese hamster cells	1,505793258	2,568815823	1,542461007
transcription initiation factor IID; TATA box factor; TATA sequence-binding protein (TBP)	2,595737403	1,46E-02	0,966172788

Ku 70 k-Da subunit (Ku70)	0,841176824	0,593636358	5,691877969
xeroderma pigmentosum group B complementing protein (XPB)	0,790457466	1,168741375	2,165958725
papillary thyroid carcinoma-encoded protein + RET proto-oncogene	1,051535958	1,971493278	2,591013714
mas proto-oncogene	0,923175899	1,38466837	2,166083884
cyclin-dependent kinase 10 (CDK10); CDC2-related protein kinase PILSSRE	0,87112244	1,407178164	1,024399007
T-lymphocyte activation CD86 antigen	1,236617763	2,141756972	0,607675072
c-abl proto-oncogene	1,170139259	10,89304736	9,091297535
raf1 proto-oncogene	0,91650027	5,77820693	0,944768838
Prohibitin (PHB)	1,254730487	4,531992646	0,70947895
G1/S-specific cycline D3 (CCND3)	1,04469684	4,85508643	4,669915557
cell division cycle 25 homologue A (CDC25A)	1,118108994	3,823784049	0,749631747
Wilms' tumor protein	81,80677	1807,47865	1,00E+00
ski-related oncogene snoN	3,388733477	40,05467632	2,02E-02
ski oncogene	1,413738779	5,737809877	1,002461788
TBP associated factor 250K-Da subunit (TAF2A)	1,671795172	12,06721882	2,041407157
CDK-interacting protein 1 (CIP1); WAF1	1,47432379	6,49109486	1,114619436
proto-oncogene tyrosine-protein kinase lck	1,143598602	1,312195617	1,442005854
tumor suppressor LUCA1	0,695502855	2,352601048	1,517117011
guanine nucleotide regulatory protein tim 1 nuclease-sensitive element DNA-binding protein (NSEP)	0,614232418	3,499347175	0,355034023
c-fgr proto-oncogene (p55-FGR), SRC2	1,576198911	13,71831952	0,229832453
L-myc proto-oncogene (MYCL1)	1,368095318	4,207113952	2,25E-02
c-yes proto-oncogene; YES1	4,647107511	2,674191439	3,86E-02
retinoblastoma-associated protein 1 (RB1)	86,41223	1,00E+00	24,15107145
N-myc proto-oncogene	6,120078409	8,691698493	5,66E-02
cyclin-dependent kinase 4 inhibitor ; p16-INK4; multiple timor suppressor 1 (MTS1)	28,44059242	1,68E-01	1,68E-01
colorectal cancer suppressor protein (DCC)	41,47495371	52,60471658	3,92E-01
cell division cycle 25 homologue (CDC25)	6,701837683	7,587223386	4,94E-02
src homology 2 protein (SHB)	0,806759148	1,876065262	1,083170338
ras homologue gene family member A	0,816087858	1,656581097	0,9151617
c-rel proto-oncogene protein	0,736057753	1,045374538	7,493147869
C-src proto-oncogene (SRC1)	0,758233497	0,778175375	1,341821665
cyclin D2 (CCND2)	0,635415803	1,487039843	0,779882403
G1/S-specific cyclin D1 (CCND1)	0,560799138	1,776399452	0,640095352
phosphatidylinositol 3 kinase catalytic subunit alpha isoform (PI3 kinase)	50,84644	1398,30326	1,00E+00
beta 1 catenin (CTNNB)	2,672429036	1,15E-02	0,034691901
fas-activated serine/threonine kinase (FAST)	1,205050178	2,392844648	3,366866964
c-src kinase (CSK); protein tyrosine-kinase cyl	1,315157355	1,620649948	4,027966394
junD proto-oncogene	114,71549	56,73135	1,00E+00
Ezrin	1,081943529	2,095092283	1,465501915
FOS-related antigen 1 (FRA1); FOS-like antigen (FOSL1)	1,739673916	2,18247894	0,456977409
FOS-related antigen 2 (FRA2), FOS-like antigen (FOSL2)	4,316529976	16,20403393	3,39E-02
n-ras proto-oncogene; transforming protein p21	1,520940293	2,625432966	2,514439919
breast cancer type 2 susceptibility protein (BRCA2)	0,650156439	1,966967326	0,254636988
cyclin-dependent kinase 4 inhibitor 2D; p19-INK4D	1,305133174	1,406691839	1,91990341
receptor interacting protein (RIP)	1,214462986	2,964893554	6,56E-03
adenomatous polyposis coli protein (APC)	2,595588775	3,904055156	1,53E-02
G1/S-specific cyclin E (CCNE)	0,023386515	4,043270209	1,709718366

C-1 protein; prefoldin 4	0,925796536	7,391215399	0,612880348
integrin-linked kinase (ILK)	60,43367	1,00E+00	1,00E+00
erythrocyte urea transporter (UTE)	2,123008999	1,341959609	11,8943162
ataxia telangiectasia mutated protein (ATM)	72,44112	129,11874	1,00E+00
CBL-B	5,492152612	2,47E-02	2,47E-02
EB1 protein	1,343032153	1,011720734	2,727431198
cyclin-dependent kinase inhibitor 1C; p57; KIP2	1,719636676	1,927390668	0,194778734
wee1Hu CDK tyrosine 15-kinase; wee-1-like protein kinase	1,357270176	1,397329433	1,17073664
CDC-like kinase 1 (CLK1)	107,43576	17,24732	1,00E+00
CDC-like kinase 3 (CLK3)	1,392486063	3,50875686	1,329874997
CDC-like kinase 2 (CLK2)	4,144586205	5,635949736	2,22E-02
ETS oncogene (PEP1)	4,100692786	2,985350329	1,86E-02
transducer of erbB2 (TROB;TOB)	1,51116111	2,7993071	1,590434154
bcl-2	65,78793	392,40333	257,5619941
semaphorin III (SEMA3)	346,05074	1448,62038	1,00E+00
cell division protein kinase 9 (CDK9); serine/threonine protein kinase PITALRE	2,358086344	1,212727437	1,000563512
E2F dimerization partner	1,547279807	1,889643735	2,499363976
5T4 oncofetal antigen	16,87179907	2,71E-02	2,71E-02
RBQ1 retinoblastoma binding protein	3,402953835	1,322908354	1,252798659
retinoblastoma binding protein 4 (RBBP4)	1,187992048	1,187614643	1,016964257
delta lactoferrin	183,659655	3,21E-01	3,21E-01
cyclin-dependent kinase 4 inhibitor2B, p14-INK4B; multiple tumor suppressor 2 (MTS2)	10,61675627	5,987075954	0,015101799
cell division cycle 25 homologue B (CDC25B)	1,839148238	1,637045953	1,988968197
DNA damage repair 6recombination protein 50 homologue (RAD50)	475,19092	150,34237	1,00E+00
Neogenin	8,584951991	7,092641885	1,49E-02
semaphorin; CD100 antigen	395,5227	342,72119	1,00E+00
TGF-beta signalling protein (BSP1)	5,227448844	4,396998763	9,24E-03
tyrosine kinase tnk1	4,029579171	4,782478785	0,669576979
wingless-realted MMTV integration site 2 protein	340,05275	1506,55724	1,00E+00
FKBP-rapamycin associated protein (FRAP)	13,46151496	2,83E-02	2,83E-02
dishevelled (DVL) + dishevelled 3 (DVL3)	1,876299005	1,452874737	1,841506619
dishevelled homologue 1-like protein	1,353525367	2,444167856	1,565685356
frizzled homologue 5 (FZD5)	13,39572864	2,45E-02	2,45E-02
semaphorin III/F (SEMA3F); semaphorin IV	3,422204287	0,985523771	6,00E-03
E2F transcription factor 5 (E2F5)	4,46189593	2,653802201	0,008104821
neurogenic locus notch protein	1,759842129	0,961860952	0,569213894
B-raf proto-oncogene (RAF1)	2,287432038	2,620100763	0,363936458
neurogenic locus notch protein homologue 1	1,230924101	3,461812718	0,726038297
cell division cycle 25 homologue C (CDC25C)	430,57275	306,6237	1,00E+00
jun-B	382,75118	145,08938	1,00E+00
wingless-realted MMTV integration site 5a protein	1,49196996	2,198315772	2,16E-03
frizzled homologue 2	305,06574	489,17	1,00E+00
retinoblastoma-like 2 protein 2, 130 K-Da retinoblastoma-associated protein	2,072153779	9,66E-03	2,846385213
serine/threonine kinase PCTAIRE 1	1,152454524	2,243852484	2,311516007
serine/threonine kinase PCTAIRE 3	1,006955012	7,34E-03	0,512129958
serine/threonine kinase PCTAIRE 2	1,00E+00	1,00E+00	1,00E+00
glycogen synthase kinase 3 alpha	1,352589633	2,426283229	1,512152429
MDM2-like p53-binding protein (MDMX)	1,252107664	4,17E-03	9,316067086
p33ING1	1,394353789	0,572240808	3,520098871

semaphorin E	1,00E+00	1,00E+00	1,00E+00
wingless-realted MMTV integration site 13 protein	1,00E+00	1,00E+00	1,00E+00
RBQ-3	2,631511611	3,32E-02	3,32E-02
frizzled homologue 9	1,740718553	1,686989571	2,838513759
BRCA1-associated ring domain protein 1 (BARD1)	6,073484568	6,88E-02	0,24668053
p53-dependent cell growth regulator CGR19	1,00E+00	1,00E+00	1,00E+00
hyaluronan receptor	1,00E+00	1,00E+00	1,00E+00
c-myc-binding protein MM-1; prefoldin 5	1,499393676	2,587934101	4,057363632
wingless-realted MMTV integration site 8b protein	22,44481425	6,43E-01	6,43E-01
p73 (monoallelically expressed p53-related protein)	1,00E+00	1,00E+00	1,00E+00
neurogenic locus notch protein homologue 4	1,831707095	1,909217732	2,321639889
tumor necrosis factor receptor superfamily member 10A	1,00E+00	1,00E+00	1,00E+00
smoothened homologue	1,528726279	2,696192343	1,413591373
neurogenic locus notch protein homologue 2	1,43186447	1,039529813	1,68388415
semaphorin 1	1,00E+00	1,00E+00	34,09287138
beta-catenin	0,963995465	2,703473015	0,358300855
E2f transcription factor 3 (E2F3)	1,402234587	2,368766061	0,864103865
wingless-realted MMTV integration site 10b protein	1,00E+00	1,00E+00	1,00E+00
akt1 proto-oncogene	1,484623926	1,873527128	4,675117363
v-Ki-RAS2B proto-oncogene	0,331231503	1,51E-02	2,860947834
sonic hedgehog (SHH)	1,00E+00	1,00E+00	1,00E+00
CD82 antigen	1,377189998	1,651020159	1,39650953
c-fos proto-oncogene	1,00E+00	1,00E+00	1,00E+00
ZAP70	1,098811624	2,522156353	2,721150844
frizzled-related FrzB (FRITZ)	0,424220332	5,62E-03	0,800566639
PRB-binding protein E2F1, retinoblastoma-binding protein 3	1,627689382	1,198349537	3,816025433
Abl interactor 2 (Abl-2) + Abl binding protein 2 (AblBP3)	1,79E+00	1,79E+00	1,79E+00
retinoblastoma-binding protein 1 (RBP1) isoform I + isoform III	1,00E+00	1,00E+00	1,00E+00
STAT2; STAT113	0,277424892	0,057939935	4,037818205
Abelson murine leukemia viral oncogene homologue 2 (ABL2)	0,95844478	1,09E-02	1,660141612
tumor necrosis factor receptor superfamily member 10B	0,715071161	1,54E-02	1,21778685
Bruton's tyrosine kinase (BTK)	1,00E+00	1,00E+00	1,00E+00
STAT1	1,56532844	2,041802406	2,220176172
protein expressed in non-metastatic cells 3	1,00E+00	1,00E+00	1,00E+00
DNA mismatch repair protein MSH2	1,00E+00	1,00E+00	1,00E+00
RBP2 retinoblastoma binding protein	1,00E+00	1,00E+00	1,00E+00
CDC2-related protein CHED	1,412113515	3,595520244	1,47E-02
STAT5A; STAT5B	0,98470486	2,164839536	0,923603689
cyclin-dependent kinase-like 1 (CDL1)	1,00E+00	1,00E+00	1,00E+00
DNA mismatch repair protein MSH6	1,00E+00	1,00E+00	38,06198871
synapse-associated protein 102 (SAP102)	0,950922684	3,904571025	0,83988206
met proto-oncogene	1,00E+00	1,00E+00	1,00E+00
patched homologue (PTC)	1,00E+00	1,00E+00	1,00E+00

A.2.5. Log₂ relación de señales tratamientos/control

NOMBRE DE LOS GENES	Log ₂ (IC ₇₅ DAU/CONTROL)	(IC ₅₀ DAU/CONTROL)	Log ₂ (IC ₇₅ WP631/CONTROL)
40 s ribosomal protein S9 (RPS9)	-0,017774623	1,088417113	2,301227772
23-kDa highly basic protein; ribosomal protein L13A (RPL13A)	-0,106695727	1,020648708	1,15301077
cytoplasmic beta-actin (ACTB)	-0,769093075	-0,626655327	0,43165131
major histocompatibility complex class I (HLAC)	-0,038330247	-0,182813705	0,526603658
tubulin alpha 1 (TUBA1)	-0,131457734	1,079052764	1,016432913
liver glyceraldehyde 3-phosphate dehydrogenase (GAPDH, G3PDH)	0	0	0
hypoxanthine-guanine phosphoribosyltransferase 1 (HPRT1)	0,17055685	0,285545939	0,237857257
phospholipase A2	-0,125251657	-0,291312261	0,877653182
ubiquitin	0,465975001	0,117157739	0,633943865
transforming growth factor beta receptor III (TGFbeta receptor, betaglycan)	7,500416447	10,73553721	0,00E+00
c-kit proto-oncogene ; mast/stem cell growth factor receptor (SCFR); CD117 antigen	7,564055307	0,00E+00	0,00E+00
transforming growyh factor beta 2 (TGF-beta 2; TGFB2)	8,073118142	5,998804687	0,00E+00
p53 cellular tumor antigen	3,798530601	4,421430319	-4,15E+00
myb proto-oncogene; c-myb	-0,024184191	0,490208198	1,68612072
transforming growth factor beta (TGF-beta,TGFB)	0,856231493	1,285644882	0,664848704
transforming growth factor alpha (TGF-alpha;TGFA)	0,021000015	0,215056917	-1,785289757
tumor necrosis factor alpha (TNF-alpha;TNFA); cachectin	0,224537015	0,54390164	-0,051963379
platelet-derived growth factor beta subunit (PDGF-beta; PDGFB); sis proto-oncogene	0,305831633	0,812682866	0,235108846
p53-binding mouse double minute 2 homologue (MDM2)	0,185037448	0,204509534	1,077284686
colony stimulating factor 1 receptor (CSF1R); fms proto-oncogene	0,309132629	0,650896086	1,331720083
insulin-like growth factor I receptor (IGF1R)	0,105951697	0,138922149	0,20380183
erbB3 proto-oncogene; HER3	-0,422833767	-0,266016453	-0,79511517
myc proto-oncogene	-0,48712841	1,159473896	-0,508192211
heregulin-beta3; glial growth factor; neuregulin; GGHPP1	6,106104258	10,52046476	0,00E+00
neuregulin 1 (NRG1), heregulin-alpha (HRGA;HGL)	6,548558445	0,00E+00	0,00E+00
erbB2 proto-oncogene; neu proto-oncogene; HER2	7,716169708	0,00E+00	0,00E+00
tumor necrosis factor receptor superfamily member 1A	0,918383636	0,951980282	-0,537043536
c-jun proto-oncogene	0,676019626	1,18209833	-0,327625646
erbB4 proto-oncogene; HER4; neuregulin receptor	2,145194062	-5,20E+00	-5,20E+00
transcription factor DP2 (Humdp2); E2F dimerization partner	0,212314813	0,921040297	-0,877727091
ets translocation variant 6 (ETV6); TEL proto-oncogene	-0,879705622	0,492695012	-0,111095672
v-erbA related protein 3 (EAR3); transcription factor COUP2	0,138387872	0,675259598	-0,060293606
v-erbA homologue-like 2 (EAR2); nuclear receptor subfamily 2	-0,036725217	0,178825241	1,450162966
epidermal growth factor receptor (EGF receptor; EGFR); erbB proto-oncogene	0,027873611	0,043363461	1,826926365
triiodothyronine receptor; thyroid hormone receptor (THRA1); v-erbA-related protein ear-1	-0,174033712	-0,104765394	2,878927027
MYB-related protein B (B-MYB); avian myeloblastosis viral oncogene homologue-like 2	0,052661144	-0,193391502	1,968581517

(MYBL2)

retinoic acid receptor epsilon (RAR-epsilon); retinoic acid receptor beta 2 (RAR-beta2); HAP	-1,297023686	0,328903234	-1,879114432
guanine nucleotide-binding protein alpha 13 subunit (GNA13)	6,378797441	10,69101047	0,00E+00
14-3-3n protein eta	0,261111395	-0,817872095	0,818999779
rel A proto-oncogene	-0,314011868	-3,258800388	0,387385179
nucleoside diphosphate kinase B	-0,036444156	0,345112985	1,379487389
tight junction protein 1 (TJP1), zonula occludens (ZO1)	2,693223581	1,207650015	-5,66E+00
tyrosine-protein kinase ack	0,713098202	0,065936277	-0,841777702
MOESIN-ezrin-radixin-like protein (MERLIN)	0,649065422	-0,601311254	-7,35E+00
TYRO3 tyrosine-protein kinase receptor; RSE	-0,206155404	1,015562587	-0,107864809
alpha 1 catenin (CTNNA1), alpha E catenin platelet-derived growth factor A subunit (PDGFA;PDGF1)	0,042408543	0,996577365	0,529573881
thymosin beta 10 (TMSB10; THYB10)	-0,164825799	0,058285723	1,764961384
tyrosine-protein kinase receptor UFO; axl proto- oncogene	-0,025244008	1,055211702	1,802770594
stem growth factor (SCF), mast cell growth factor (MGF); c-kit ligand	0,012338066	1,356716364	-2,257521253
oncostatin M (OSM)	0,043791353	1,289338278	-7,96E+00
neural retin-specific leucine zipper protein (NRL)	0,731861588	4,09301868	-6,65E+00
myeloid cell nuclear differentiation antigen (MND4)	-0,68686683	1,084805954	-0,555661786
mitochondrial transcription factor 1 (MTTF1), TCF6L1	2,194429911	-5,61E+00	-5,61E+00
colorectal mutant cancer protein (MCC)	0,793247668	2,068706232	-0,304350447
neurofibromatosis protein type 1 (NF1); neurofibromin	7,257328803	0,00E+00	0,00E+00
pim-1 proto-oncogene	6,500790011	6,988271825	7,635685302
X-ray repair-complementing defective repair in Chinese hamster cells	0,590523697	1,361103437	0,62523401
transcription initiation factor IID; TATA box factor; TATA sequence-binding protein (TBP)	1,376144421	-6,09E+00	-0,049646873
Ku 70 k-Da subunit (Ku70)	-0,24951899	-0,752348631	2,508904695
xeroderma pigmentosum group B complementing protein (XPB)	-0,339240256	0,224955716	1,115005735
papillary thyroid carcinoma-encoded protein + RET proto-oncogene	0,072498183	0,979288777	1,373516632
mas proto-oncogene	-0,115322533	0,469540484	1,115089098
cyclin-dependent kinase 10 (CDK10); CDC2- related protein kinase PILSSRE	-0,199052581	0,492804994	0,034777759
T-lymphocyte activation CD86 antigen	0,30639963	1,098794769	-0,718627973
c-abl proto-oncogene	0,226680233	3,445335654	3,184486169
raf1 proto-oncogene	-0,125792788	2,530621834	-0,081966713
prohibitin (PHB)	0,327377506	2,180145489	-0,495168207
G1/S-specific cyclin D3 (CCND3)	0,063084347	2,279496946	2,223396431
cell division cycle 25 homologue A (CDC25A)	0,161060827	1,93500102	-0,415746036
Wilms' tumor protein	6,354148243	10,81976273	0,00E+00
ski-related oncogene snoN	1,760746148	5,323898703	-5,63E+00
ski oncogene	0,499515567	2,520500129	0,003547244
TBP associated factor 250K-Da subunit (TAF2A)	0,741398088	3,593021254	1,029563941
CDK-interacting protein 1 (CIP1); WAF1	0,560053395	2,698461801	0,156551214
proto-oncogene tyrosine-protein kinase lck	0,193580758	0,391982802	0,528077014
tumor suppressor LUCA1	-0,523871651	1,234256673	0,601332352
guanine nucleotide regulatory protein tim 1 nuclease-sensitive element DNA-binding protein (NSEP)	-0,703143428	1,807085777	-1,493970788
	-0,230856336	1,930134923	0,025785282
c-fgr proto-oncogene (p55-FGR), SRC2	0,6564496	3,778031804	-2,121345542

L-myc proto-oncogene (MYCL1)	0,452168743	2,072830865	-5,47E+00
c-yes proto-oncogene; YES1	2,21633299	1,419102728	-4,69E+00
retinoblastoma-associated protein 1 (RB1)	6,433163515	0,00E+00	4,594015224
N-myc proto-oncogene	2,613550099	3,119638085	-4,14E+00
cyclin-dependent kinase 4 inhibitor ; p16-INK4; multiple timor suppressor 1 (MTS1)	4,829879542	-2,57E+00	-2,57E+00
colorectal cancer suppressor protein (DCC)	5,374168388	5,717120171	-1,35E+00
cell division cycle 25 homologue (CDC25)	2,744556706	2,923571973	-4,34E+00
src homology 2 protein (SHB)	-0,309790059	0,907710002	0,115260135
ras homologue gene family member A	-0,293203613	0,728208821	-0,127901417
c-rel proto-oncogene protein	-0,442109121	0,064019925	2,90557188
C-src proto-oncogene (SRC1)	-0,399285897	-0,361832763	0,424192937
cyclin D2 (CCND2)	-0,654227115	0,572443294	-0,358671491
G1/S-specific cyclin D1 (CCND1)	-0,83444395	0,828956019	-0,643641252
phosphatidylinositol 3 kinase catalytic subunit alpha isoform (PI3 kinase)	5,668074781	10,44946142	0,00E+00
beta 1 catenin (CTNNB)	1,418151618	-6,45E+00	-4,849257235
fas-activated serine/threonine kinase (FAST)	0,269093217	1,258726717	1,751406691
c-src kinase (CSK); protein tyrosine-kinase cyl	0,395235418	0,6965725	2,010051618
junD proto-oncogene	6,841916302	5,826074206	0,00E+00
ezrin	0,1136252	1,067013777	0,551394846
FOS-related antigen 1 (FRA1); FOS-like antigen (FOSL1)	0,798816901	1,125967716	-1,129805233
FOS-related antigen 2 (FRA2), FOS-like antigen (FOSL2)	2,109871977	4,018281048	-4,88E+00
n-ras proto-oncogene; transforming protein p21 breast cancer type 2 susceptibility protein (BRCA2)	0,60496351	1,392555341	1,330237063
cyclin-dependent kinase 4 inhibitor 2D; p19- INK4D	-0,621141189	0,975972978	-1,973486072
receptor interacting protein (RIP)	0,384197019	0,492306308	0,941033717
adenomatous polyposis coli protein (APC)	0,280318517	1,567980287	-7,25E+00
G1/S-specific cyclin E (CCNE)	1,376061812	1,964973407	-6,03E+00
C-1 protein; pefoldin 4	-5,418179237	2,015522592	0,773758685
integrin-linked kinase (ILK)	-0,111232929	2,885811577	-0,70632264
erythrocyte urea transporter (UTE)	5,917280566	0,00E+00	0,00E+00
ataxia telangiectasia mutated protein (ATM)	1,086110471	0,424341243	3,572200378
CBL-B	6,178736858	7,012554494	0,00E+00
EB1 protein	2,457371679	-5,34E+00	-5,34E+00
cyclin-dependent kinase inhibitor 1C; p57; KIP2	0,425493838	0,016811117	1,447542783
wee1Hu CDK tyrosine 15-kinase; wee-1-like protein kinase	0,782103774	0,946649011	-2,360091887
CDC-like kinase 1 (CLK1)	0,440707923	0,482672182	0,227416572
CDC-like kinase 3 (CLK3)	6,747330367	4,10830024	0,00E+00
CDC-like kinase 2 (CLK2)	0,477662881	1,810959953	0,411290639
ETS oncogene (PEP1)	2,051228041	2,494658709	-5,49E+00
transducer of erbB2 (TROB;TOB)	2,035867635	1,577900218	-5,75E+00
bcl-2	0,59565747	1,485069746	0,669420634
semaphorin III (SEMA3)	6,039750927	8,61619335	8,008775799
cell division protein kinase 9 (CDK9); serine/threonine protein kinase PITALRE	8,434839658	10,50046371	0,00E+00
E2F dimerization partner	1,237616527	0,278255335	0,000812747
5T4 oncofetal antigen	0,629734105	0,918114247	1,321560994
RBQ1 retinoblastoma binding protein	4,076541855	-5,21E+00	-5,21E+00
retinoblastoma binding protein 4 (RBBP4)	1,766787554	0,403713115	0,325154569
delta lactoferrin	0,248525175	0,248066783	0,024268974
	7,520890822	-1,64E+00	-1,64E+00

cyclin-dependent kinase 4 inhibitor2B, p14-INK4B; multiple tumor suppressor 2 (MTS2)	3,408271093	2,581851536	-6,049135644
cell division cycle 25 homologue B (CDC25B)	0,879037755	0,711094809	0,992020194
DNA damage repair 6recombination protein 50 homologue (RAD50)	8,892363331	7,232107737	0,00E+00
neogenin	3,101810022	2,826323066	-6,07E+00
semaphorin; CD100 antigen	8,627616562	8,420891463	0,00E+00
TGF-beta signalling protein (BSP1)	2,386107004	2,136519096	-6,76E+00
tyrosine kinase tnk1	2,01062915	2,257758536	-0,57867816
wingless-realted MMTV integration site 2 protein	8,409614628	10,55703962	0,00E+00
FKBP-rapamycin associated protein (FRAP)	3,750768821	-5,14E+00	-5,14E+00
dishevelled (DVL) + dishevelled 3 (DVL3)	0,90788974	0,538910315	0,88088657
dishevelled homologue 1-like protein	0,43672192	1,289343349	0,646794305
frizzled homologue 5 (FZD5)	3,743701097	-5,35E+00	-5,35E+00
semaphorin III/F (SEMA3F); semaphorin IV	1,774925858	-0,021037424	-7,38E+00
E2F transcription factor 5 (E2F5)	2,157656833	1,408060824	-6,947003832
neurogenic locus notch protein	0,815446002	-0,056099742	-0,812957206
B-raf proto-oncogene (RAF1)	1,193728863	1,389622276	-1,458241491
neurogenic locus notch protein homologue 1	0,299741803	1,791527652	-0,461882438
cell division cycle 25 homologue C (CDC25C)	8,750113081	8,260325283	0,00E+00
jun-B	8,580262892	7,18079801	0,00E+00
wingless-realted MMTV integration site 5a protein	0,57721848	1,136398617	-8,86E+00
frizzled homologue 2	8,25297624	8,93419199	0,00E+00
retinoblastoma-like 2 protein 2, 130 K-Da retinoblastoma-associated protein	1,051131058	-6,69E+00	1,509130899
serine/threonine kinase PCTAIRE 1	0,20470982	1,165977816	1,208839336
serine/threonine kinase PCTAIRE 3	0,009999229	-7,09E+00	-0,965418126
serine/threonine kinase PCTAIRE 2	0,00E+00	0,00E+00	0,00E+00
glycogen synthase kinase 3 alpha	0,435724195	1,278747953	0,596603565
MDM2-like p53-binding protein (MDMX)	0,324358614	-7,91E+00	3,219720982
p33ING1	0,479596655	-0,8053057	1,815615925
semaphorin E	0,00E+00	0,00E+00	0,00E+00
wingless-realted MMTV integration site 13 protein	0,00E+00	0,00E+00	0,00E+00
RBQ-3	1,39589174	-4,91E+00	-4,91E+00
frizzled homologue 9	0,799682949	0,754451044	1,505135713
BRCA1-associated ring domain protein 1 (BARD1)	2,60252444	-3,86E+00	-2,019284215
p53-dependent cell growth regulator CGR19	0,00E+00	0,00E+00	0,00E+00
hyaluronan receptor	0,00E+00	0,00E+00	0,00E+00
c-myc-binding protein MM-1; prefoldin 5	0,584379214	1,371800861	2,020542577
wingless-realted MMTV integration site 8b protein	4,488310187	-6,38E-01	-6,38E-01
p73 (monoallelically expressed p53-related protein)	0,00E+00	0,00E+00	0,00E+00
neurogenic locus notch protein homologue 4	0,873188811	0,932981628	1,215144195
tumor necrosis factor receptor superfamily member 10A	0,00E+00	0,00E+00	0,00E+00
smoothened homologue	0,612330104	1,4309234	0,499365134
neurogenic locus notch protein homologue 2	0,517894936	0,055931133	0,751792874
semaphorin 1	0,00E+00	0,00E+00	5,091398133
beta-catenin	-0,052901734	1,434813935	-1,480756587
E2f transcription factor 3 (E2F3)	0,487727718	1,244135707	-0,210723357
wingless-realted MMTV integration site 10b protein	0,00E+00	0,00E+00	0,00E+00
akt1 proto-oncogene	0,570097516	0,905756855	2,22500255
v-Ki-RAS2B proto-oncogene	-1,594088181	-6,05E+00	1,51649317

sonic hedgehog (SHH)	0,00E+00	0,00E+00	0,00E+00
CD82 antigen	0,461727602	0,723357725	0,481825412
c-fos proto-oncogene	0,00E+00	0,00E+00	0,00E+00
ZAP70	0,135944076	1,334657695	1,444216912
frizzled-related FrzB (FRITZ)	-1,23711431	-7,47E+00	-0,320906594
PRB-binding protein E2F1, retinoblastoma-binding protein 3	0,702825401	0,261048774	1,932070759
Abl interactor 2 (Abl-2) + Abl binding protein 2 (AbIBP3)	8,39E-01	8,39E-01	8,39E-01
retinoblastoma-binding protein 1 (RBP1) isoform I + isoform III	0,00E+00	0,00E+00	0,00E+00
STAT2; STAT113	-1,849830828	-4,109298075	2,013575929
Abelson murine leukemia viral oncogene homologue 2 (ABL2)	-0,061232779	-6,52E+00	0,7313063
tumor necrosis factor receptor superfamily member 10B	-0,483841267	-6,02E+00	0,284261635
Bruton's tyrosine kinase (BTK)	0,00E+00	0,00E+00	0,00E+00
STAT1	0,646465388	1,029843242	1,150674143
protein expressed in non-metastatic cells 3	0,00E+00	0,00E+00	0,00E+00
DNA mismatch repair protein MSH2	0,00E+00	0,00E+00	0,00E+00
RBP2 retinoblastoma binding protein	0,00E+00	0,00E+00	0,00E+00
CDC2-related protein CHED	0,49785606	1,846200506	-6,08E+00
STAT5A; STAT5B	-0,022236717	1,114260076	-0,114654158
cyclin-dependent kinase-like 1 (CDL1)	0,00E+00	0,00E+00	0,00E+00
DNA mismatch repair protein MSH6	0,00E+00	0,00E+00	5,250278963
synapse-associated protein 102 (SAP102)	-0,072600048	1,965164027	-0,251741339
met proto-oncogene	0,00E+00	0,00E+00	0,00E+00
patched homologue (PTC)	0,00E+00	0,00E+00	0,00E+00