SUPPLEMENTARY METHODS

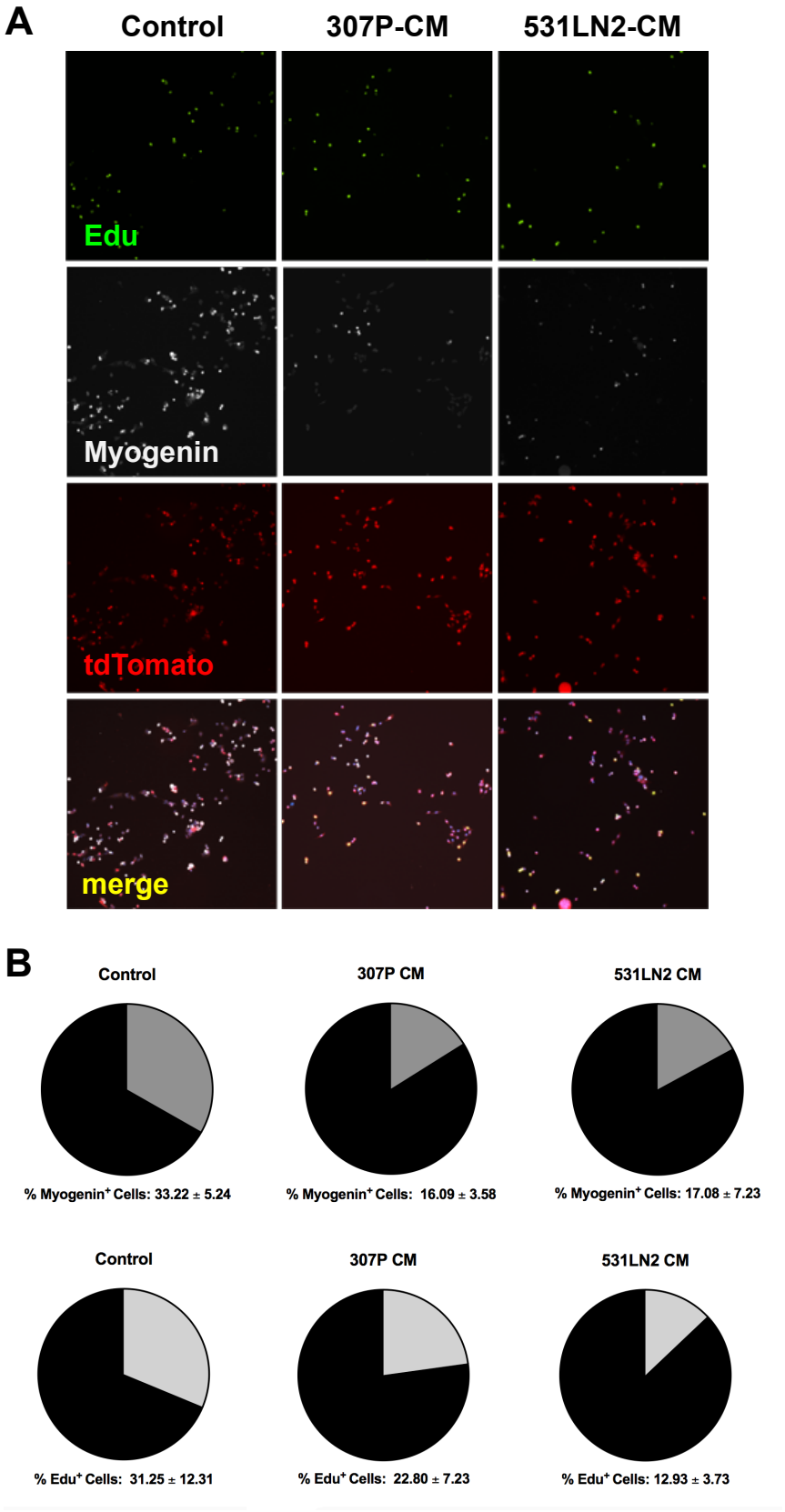
Primary Myoblast Culture

Primary myoblasts were harvested from Pax7^{iCreERT2}/ROSA26$^{LSL\text{-}tdTomato}$ mice by dissecting out the hind limb muscles. Tissue was minced to a fine paste and then mixed with 2% w/v collagenase II (Gibco 17101-015) in F12 media and digested with rotation for 1 hour at 37^0 C. Digested sample was triturated with an 18G needle, returned to rotate/incubate for 15 minutes, and triturated again. The collagenase reaction was quenched with F12+15% horse serum, 1% penicillin/streptomycin and then filtered through 100, 70 and 40 µm cell strainers (Fisher 22363547). Resultant suspension was run through satellite cell negative isolation columns (Miltenyi Biotech 130-042-401) and flow through was plated on 0.1% gelatin-coated coverslips. Satellite cells were grown in DMEM/F12 20% fetal bovine serum, 10% horse serum, 1% penicillin/streptomycin, 1% chick embryo extract, 0.1% amphotericin B and FGF (1:5000) for 4 days until cells were adhered. On the 4th day, cultures were switched to LC-CM and allowed to grow for 48 hours until clone sizes on the coverslip were at 64-128 cell stage. Cells were treated with EdU for 2 hours prior to fixing. Coverslips were fixed and stained for Myogenin and EdU as described previously.

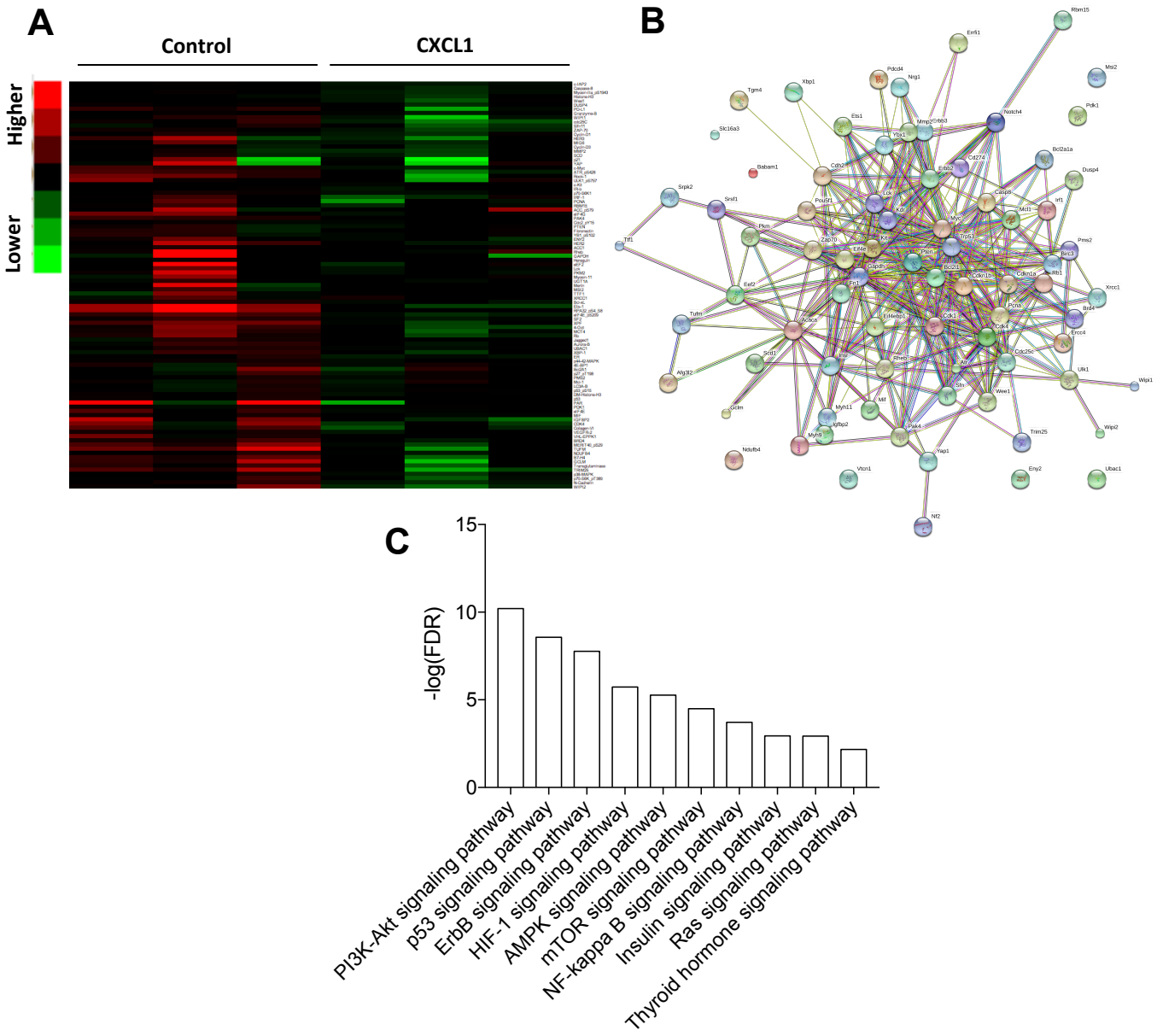
Reverse phase protein array (RPPA) analysis

C2C12 cells were treated with CXCL1 (as in figure 2) and protein lysates were prepared 6h post-treatment according to instructions from the MD Anderson Functional Proteomics Core Facility (https://www.mdanderson.org/research/research-resources/core-facilities/functional-proteomics-rppa-core/getting-started.html). Protein lysates were quantified by BCA prior to analysis. Bioinformatics analyses were performed using Gene Cluster 3.0 (http://bonsai.hgc.jp/~mdehoon/software/cluster/) and visualized using Java TreeView (http://jtreeview.sourceforge.net/). Interaction networks and pathway analyses were performed in STRING (https://string-db.org/).

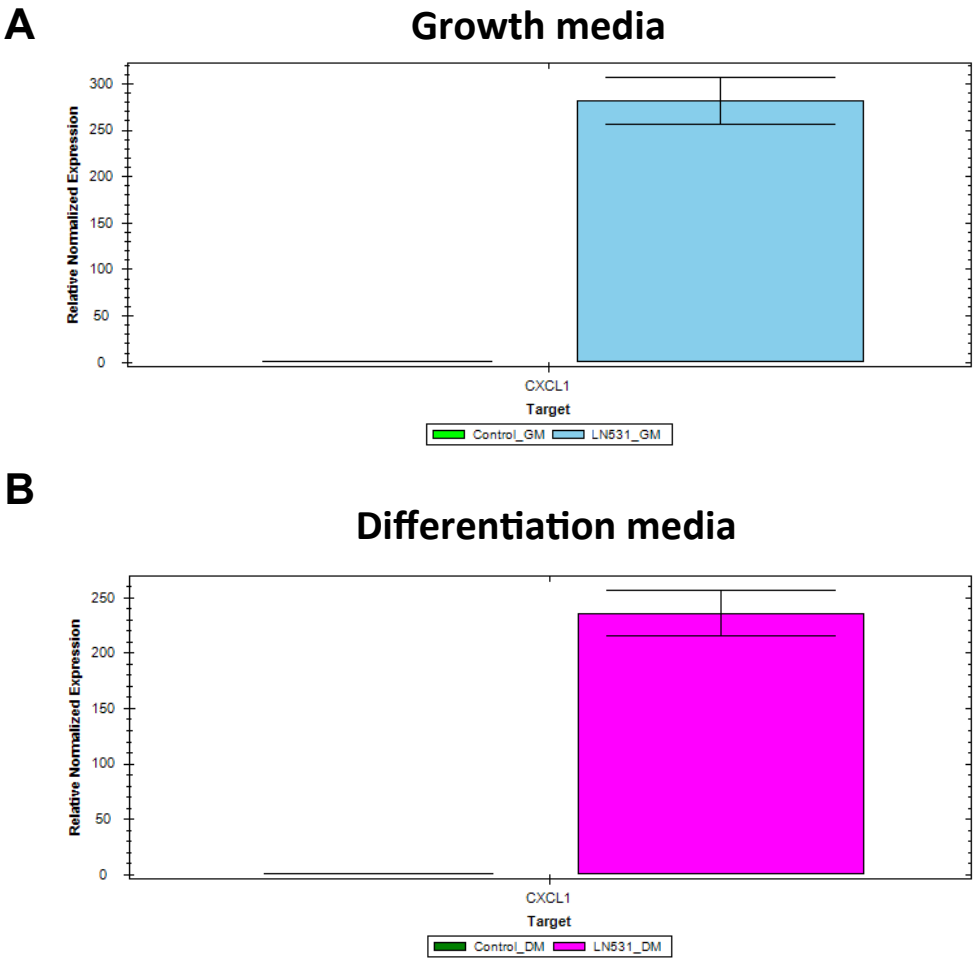
Supplementary Figure S1



Supplementary Figure S1. Tumor-derived factors impair myogenic progression of primary myoblast cell cultures. (A) Representative images of primary myoblasts from $Pax7^{iCreERT2}/ROSA26^{LSL\text{-}tdTomato}$ mice treated with control (primary myoblast growth media), 531LN2 LC-CM, or 307P LC-CM media and stained/imaged to detect total Pax7+ cell number, Edu+ cell abundance, and Myogenin expression. **(B)** Pie graphs depicting the fraction of Myogenin+/- (top) or Edu+/- (bottom) cells within the Pax7+/tdTomato+ population. Myogenin levels were significantly lower in both LC-CM treatments as compared to control ($p < 0.05$ using a two-tailed paired t test). 5-7 representative fields quantified for each biological replicate (control, 307P: N=5; 531LN2: N=3) and at least 100 cells were quantified for each biological replicate.

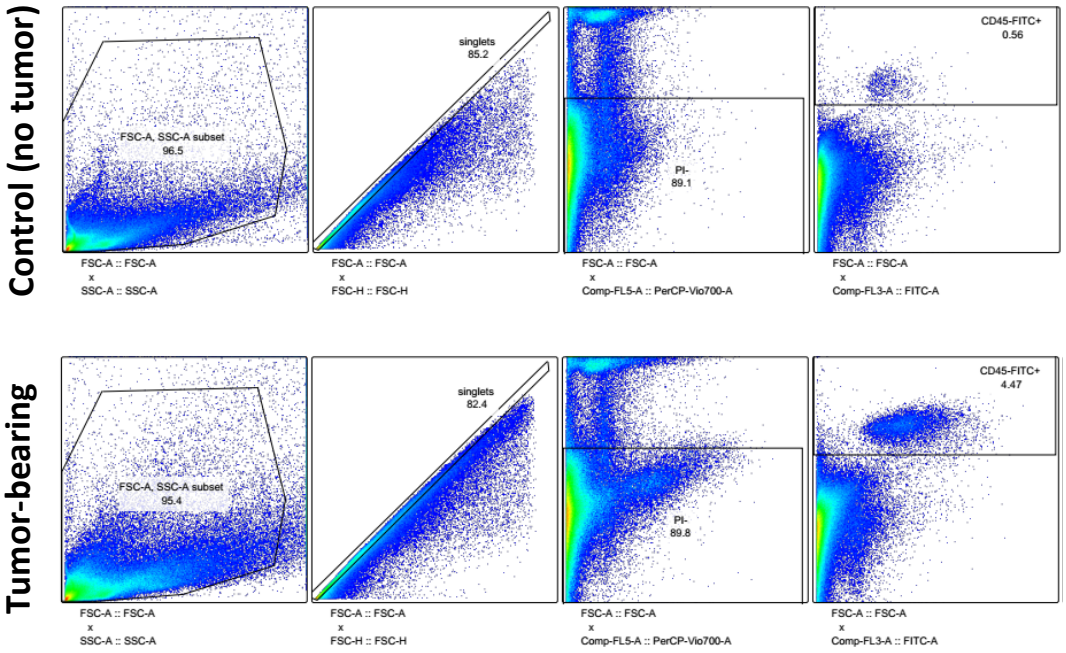


Supplementary Figure S2. Tumor-derived factors impair myogenic progression of primary myoblast cell cultures. (A) Heatmap depicting selected down regulated proteins in CXCL1- treated C2C12 cultures as determined by reverse phase protein array (RPPA) analyses. **(B)** STRING-generated protein interaction network of down-regulated proteins from (A). (C) A graph depicting log-transformed false discovery rate values of top KEGG annotated “signaling pathways”.

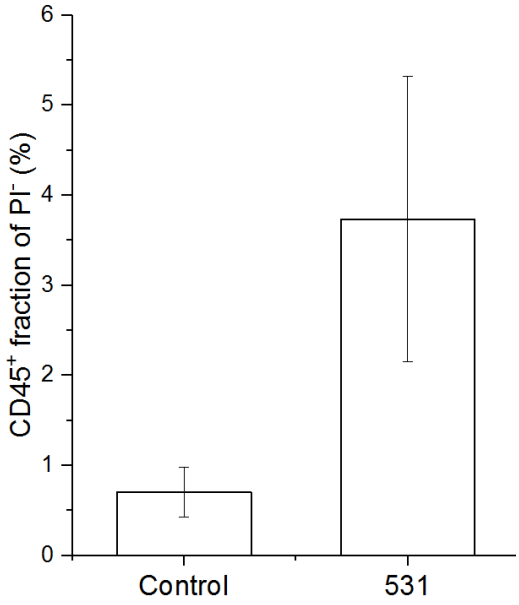


Supplementary Figure S3. Tumor-derived factors promote *cxcl1* mRNA expression in muscle cells. (A) C2C12s were cultured for 4d in growth media as exposed to a control growth media or 531LN2 conditioned growth media for an additional 24h. Shown is a graph of *cxcl1* mRNA expression as determined by qRT-PCR. **(B)** C2C12s were cultured for 4d in differentiation media as exposed to a control differentiation media or 531LN2 conditioned differentiation media for an additional 24h. Shown is a graph of *cxcl1* mRNA expression as determined by qRT-PCR. Error bars represent the SD of n=3 experimental replicates.

A



B



Supplementary Figure S4. Tumor-bearing mice exhibit elevated CD45+ cells in hindlimb muscle. (A) Representative flow cytometry plots depicting CD45 cell abundance in control (top row) and 531LN2 tumor-bearing mice (bottom row). **(B)** A bar graph of CD45+ cell abundance (% of $PI^{negative}$) in control and tumor-bearing mice. Error bars represent the SD of n=5 mice.

Supplementary Table 1

List of normalized RPPA values (control vs CXCL1; SD=std deviation)

Target	control	SD	CXCL1	SD
14-3-3-beta	0.03815381	0.01442723	-0.066464	0.04975697
14-3-3-epsilon	-0.0254124	0.02290762	0.00140555	0.01816274
14-3-3-zeta	-0.0174338	0.07496574	-0.0177657	0.03519765
4E-BP1	0.0205827	0.06464331	0.00668345	0.03167115
4E-BP1_pS65	0.02012838	0.01856424	0.01188807	0.03717514
53BP1	-0.0156002	0.06101067	0.02332603	0.04040187
A-Raf	-0.0336348	0.03133628	0.00740939	0.03214634
ACC1	0.02653805	0.03848648	0.00704584	0.01220376
ACC_pS79	0.09797503	0.22548094	0.09653952	0.16712943
ADAR1	-0.0878174	0.0853535	0.02286576	0.00879138
Akt	0	0	0.01109402	0.06325718
Akt_pS473	-0.091795	0.17258072	0.02707223	0.04689047
Akt_pT308	0.02391163	0.12078071	-0.0317837	0.02904862
AMPK-a2_pS34	-0.0698097	0.04874567	0.02287544	0.01898958
AMPKa	-0.0332367	0.00717933	0.01419893	0.01400447
AMPKa_pT17	0.085275	0.16672617	-0.1023525	0.29436266
Annexin-I	-0.0118735	0.08134258	-0.0032767	0.01201627
Annexin-VII	-0.0295841	0.10855479	-0.0184029	0.0318748
AR	-0.0474804	0.04117454	0.00693823	0.02000858
ARID1A	-0.0415763	0.20312989	0.11610217	0.26569096
Atg3	-0.0142928	0.0707929	-0.0265983	0.03097983
Atg7	0	0	-0.0851042	0.11586887
ATM	0.00519995	0.08428045	0.00571083	0.00989144
ATRX	0.07276101	0.12602577	-0.0693667	0.43726168
ATR_pS428	0.10825702	0.03617716	-0.0950249	0.12231762
Aurora-B	0.05877266	0.06294819	-0.0120229	0.02082431
Axl	-0.0079564	0.01378097	0.04467181	0.25628511
b-Actin	-0.0197255	0.0880106	0.00663489	0.02312325
b-Catenin	-0.0007121	0.01764878	0.01224111	0.06890831
b-catenin_pT41_	-0.019967	0.02231411	0.04179813	0.04509307
B-Raf	-0.0260757	0.01835783	0.02351732	0.01670899
B-Raf_pS445	-0.0204623	0.06628456	0.02935673	0.05403538
B7-H4	0.10524505	0.07281512	-0.0631389	0.10935973
Bad_pS112	-0.0377918	0.0442094	0.05318439	0.03025973
Bak	-0.041063	0.03717347	0.01248026	0.00792062
BAP1	-0.0485262	0.04849381	-0.0431172	0.07468125
Bax	0.00408858	0.02533224	0.0221379	0.03834396
Bcl-xL	0.05021764	0.0239713	-0.0170694	0.01742228
Bcl2	-0.0327306	0.05669107	-0.0106069	0.03631121
Bcl2A1	0.05909225	0.1585495	-0.0120076	0.09653042
Beclin	-0.015067	0.02609674	-0.0084206	0.02841412
Bid	-0.0008632	0.00149507	0.00571793	0.06126581
Bim	-0.0050409	0.01253489	-0.0102316	0.0177216
BiP-GRP78	-0.0207108	0.02566008	-0.0446668	0.07736514
BRD4	0.06506631	0.0544017	-0.0151787	0.02629029
c-Abl	-0.2723326	0.25164207	0.00605515	0.01048782
c-IAP2	0.0026211	0.00453987	-0.0339901	0.01271437
c-Jun_pS73	-0.0262251	0.04991134	0.01802405	0.02823622
c-Kit	0	0	-0.0038322	0.00664822
c-Met	0.00220001	0.02638385	-0.0174992	0.01617011
c-Met_pY1234_Y1	-0.089852	0.03097532	0.01351326	0.01966947
c-Myc	0.08156235	0.04136915	-0.0332354	0.03571196
C-Raf	-0.0249709	0.04457299	0.01206082	0.02088996
C-Raf_pS338	-0.0643737	0.02980805	0.01974682	0.02429286
Caspase-3	-0.008415	0.0377566	-0.0237981	0.03178928
Caspase-7-cleav	0.01010338	0.031034	-0.0022921	0.00397002
Caspase-8	0	0	-0.0407842	0.03328553
Caveolin-1	-0.0036411	0.00630652	-0.020613	0.07981277
CD171	-0.0329216	0.03785752	-0.0784952	0.18418679
CD26	-0.0585527	0.10141618	0.01169969	0.03269735
CD29	-0.0262708	0.04550229	-0.0123383	0.03142721
CD31	-0.0223074	0.05664854	-0.0146087	0.01265364
CD44	-0.0266001	0.04607265	-0.057686	0.05771315
CD49b	-0.0084509	0.05072028	-0.0081942	0.0141927
cdc25C	0.04169363	0.0524452	-0.1503458	0.09196145
Cdc2_pY15	0.00043125	0.01458556	-0.0036044	0.00624307
CDK1	-0.0216401	0.07359216	0.00672905	0.01165506
CDK2	-0.0448124	0.07544595	-0.0075842	0.01313628
CDK4	0.15839485	0.1756707	-0.0667024	0.06143417
Chk1	-0.0289603	0.11732359	-0.0094757	0.10475643
Chk1_pS296	-0.0085734	0.08210648	-0.0135951	0.06907213
Chk2	0.00154638	0.08453818	-0.075714	0.13654433
Chk2_pT68	-0.0859314	0.08162531	0.00356622	0.01923311
Claudin-7	-0.1000438	0.11457206	0.0109356	0.02087269
COG3	-0.0420986	0.05545514	-0.0013326	0.00230812
Collagen-VI	0.08965797	0.10548706	-0.0731793	0.07889213
Connexin-43	0.03047109	0.05277747	-0.0132323	0.07644909
Cox-IV	0.14883311	0.17174249	-0.0906231	0.15696381
Cox2	-0.0078886	0.01366348	0.00228928	0.02994783
Creb	-0.0340303	0.03520207	0.0084719	0.0096444
Cyclin-B1	-0.0647366	0.05166051	0	0
Cyclin-D1	0.01612438	0.04360313	-0.0410461	0.0514254
Cyclin-D3	-0.0130998	0.03840284	-0.0325455	0.0563704
Cyclin-E1	0.0091941	0.07113837	-0.0417591	0.06480925
Cyclophilin-F	0.0140714	0.01312128	-0.0435184	0.06323758
D-a-Tubulin	0.02168477	0.03755913	0.0268642	0.02774803
DJ1	-0.067739	0.07956212	0.0017321	0.01914449
DM-Histone-H	0.0215661	0.02584953	-0.0108381	0.01666839
DM-K9-Histone-	-0.0091829	0.03578413	0	0
DUSP4	0.00980363	0.00878775	-0.0284206	0.04922591
E-Cadherin	-0.0898502	0.10020654	0	0
E2F1	-0.0094244	0.01632352	-0.019999	0.0260446
eEF2	0.3428896	0.59291011	-0.0184491	0.0547246
eEF2K	-0.0760169	0.22978882	0	0
EGFR	-0.0914419	0.07427189	0	0
EGFR_pY1173	-0.0116513	0.01484273	-0.0152619	0.02643435
eIF4E	0.08947384	0.08165839	-0.007446	0.0080816
eIF4E_pS209	0.13466186	0.05047422	-0.0524289	0.03462917
eIF4G	0.15746667	0.13737887	-0.008448	0.02001538

Elk1_pS383	-0.0384585	0.034238	-0.0109427	0.03083884
EMA	-0.0153511	0.07325739	0.00146527	0.00253792
ENY2	0.07808606	0.11487175	-0.0322415	0.04568163
ER	0.02284734	0.0362103	-0.034357	0.01733744
ER-a_pS118	-0.0631472	0.03028526	0.03396407	0.01925791
ERCC1	-0.0565281	0.09790955	0.00014741	0.18483294
ERCC5	-0.1181381	0.37497208	0	0
Ets-1	0.38433224	0.18095553	-0.0782596	0.06784968
FAK	0.00086573	0.04887692	0	0
FAK_pY397	-0.0179528	0.03318227	0.02601075	0.07584853
FASN	-0.014213	0.02461756	0.04310315	0.06313933
Fibronectin	0.02369972	0.07400156	0.00557144	0.00965002
FoxM1	0	0	-0.0333103	0.06164085
FoxO3a	-0.0038311	0.02038769	-0.0331183	0.08402958
FoxO3a_pS318_S	-0.0219159	0.07228663	0.00137653	0.00238422
FRA-1	0.1558986	0.15563678	-0.153537	0.26593383
G6PD	-0.0066104	0.01144951	-0.0389456	0.05350693
Gab2	-0.0440562	0.07409373	0.03565658	0.0419822
GAPDH	0.56347395	1.02305308	-0.10138	0.17559529
GATA3	-0.0301364	0.06578105	0.00026636	0.01268653
GCLM	0.16234055	0.16485965	-0.1244785	0.21560314
GCN5L2	-0.0058414	0.01011762	0.00599639	0.03114279
Glutamate-D1	0.00800238	0.01085539	-0.0947962	0.03520169
Glutaminase	-0.0050918	0.00881929	-0.0200025	0.06534163
Granzyme-B	0.00411986	0.00713581	-0.022392	0.02918323
GSK-3a-b	0.00399157	0.0069136	0.00464578	0.04050832
GSK-3a-b_pS21_	-0.0498329	0.12132553	0.01013843	0.01756028
Gys	-0.0292131	0.20037607	0.08794355	0.13481503
Gys_pS641	-0.1115592	0.18862595	0.08497819	0.09098867
H2AX_pS140	-0.0143652	0.03495963	0.00429147	0.03707133
HER2	0.16151164	0.19024741	-0.0293024	0.02561865
HER2_pY1248	-0.0273033	0.05049267	0.05871192	0.0696102
HER3	0.09885639	0.23317983	-0.1054518	0.13468744
HER3_pY1289	-0.0011692	0.07579716	0.02960036	0.03636436
Heregulin	0.012403	0.02292593	-0.0025651	0.0044429
HES1	-0.0034117	0.05325683	-0.0049053	0.00849617
Hexokinase-II	-0.0269148	0.03285423	-0.0204722	0.06347057
Hif-1-alpha	-0.070649	0.02467478	0.00691618	0.01197917
Histone-H3	-0.0061747	0.01069487	-0.0472657	0.05159175
HSP27	0.00779587	0.04143888	-0.0779215	0.08796247
HSP27_pS82	-0.0536509	0.09292603	0.17315111	0.26291935
HSP70	-0.0027832	0.03013924	0.02028748	0.0293037
IR_pY1135_Y1	0.03180273	0.05508395	0.02547671	0.0372365
IGFBP2	0.19817692	0.18692855	-0.0921489	0.10394795
IGFRb	-0.0530508	0.0523323	0.00928481	0.0239356
INPP4b	-0.0614416	0.0408073	0.01147309	0.01987197
IR-b	0.00342912	0.0059394	-0.014877	0.02182354
IRF-1	0.04137773	0.06725349	-0.0733774	0.09741215
IRS1	-0.0707133	0.1083761	0.00655229	0.00570853
Jagged1	0.02462189	0.05474855	0	0
Jak2	-0.0220387	0.14043417	0.01571046	0.02721132
JNK2	-0.047405	0.04292028	0.0269273	0.03416427
JNK_pT183_Y18	0.04667688	0.11343055	0.00455442	0.05461864
LC3A-B	-0.0014864	0.04696996	-0.0090844	0.01573465
Lck	0.06811333	0.11797229	-0.0138542	0.01562331
LDHA	-0.0793391	0.06871215	0.00013168	0.00915725
LRP6_pS1490	-0.0361687	0.07845731	0.01052426	0.01572536
MAPK_pT202_Y	-0.0517102	0.18844164	-0.0028119	0.04278123
Mcl-1	0.01522167	0.05239894	0.00089787	0.04470712
MCT4	0.11131272	0.10676265	-0.0642113	0.09947457
MDM2_pS166	-0.0402798	0.28662681	0	0
MEK1	-0.0494647	0.05922443	0.07003971	0.04846928
MEK1_pS217_S2	-0.0264765	0.06015136	-0.0022139	0.01917297
MERIT40_pS2	0.15038475	0.10673482	-0.0481426	0.07244091
Merlin	0.11241487	0.29320888	-0.0004488	0.00077732
MIF	0.02990708	0.02611416	-0.0090199	0.00805716
MIG6	0.05143543	0.1281801	-0.0356765	0.03627798
MMP2	-0.0183706	0.06350029	-0.066377	0.0623947
Mnk1	-0.082367	0.01137503	0	0
MSH6	-0.1384334	0.13403279	0.00498907	0.00864132
MSI2	0.01992902	0.10196906	-0.0003683	0.00063788
mTOR	-0.001553	0.00179438	0.01221345	0.01229985
mTOR_pS2448	-0.0101524	0.01758449	0.07976109	0.13194032
Myosin-11	0.08217239	0.17504432	0.0064534	0.01117761
Myosin-IIa_pS19	0.00461675	0.00799645	-0.0512593	0.03092692
Myt1	0.02738196	0.04742694	-0.0607616	0.2538046
N-Cadherin	0.04060296	0.0459203	-0.0539814	0.03299691
N-Ras	0	0	-0.0153648	0.06317525
NAPSIN-A	-0.0618353	0.02757279	0	0
NDRG1_pT346	-0.0696575	0.1216072	0.02519988	0.04254542
NDUFB4	0.02485434	0.04304897	-0.0153063	0.02313427
NF-kB-p65_pS5	-0.0147402	0.01725097	-0.0060755	0.01052311
Notch1	-0.080239	0.16027631	-0.0106848	0.02469017
Notch3	0.00636356	0.01313419	0.02779681	0.06415278
Oct-4	0.12792078	0.12166797	-0.0847647	0.07377355
P-Cadherin	-0.0437247	0.1051096	0.01666521	0.0591383
p16INK4a	0.13080966	0.81270896	0.26039211	3.26506551
p21	-0.0588319	0.32613539	-0.1688878	0.28386933
p27-Kip-1	-0.0842597	0.07897956	0.01606031	0.01037596
p27_pT198	0.0306342	0.0829141	-0.0071932	0.03154716
p38-MAPK	0.02014574	0.03489344	-0.0445272	0.05340644
p38_pT180_Y18	-0.0816738	0.0582448	0.02158742	0.03739051
p44-42-MAPK	0.02394987	0.01622	-0.0076297	0.01321501
p53	0.02413048	0.0295811	0	0
p53_pS15	0.00874603	0.0494658	-0.0040849	0.01451712
p70-S6K1	0.01853722	0.01878637	-0.016786	0.01469333
p70-S6K_pT38	0.0386891	0.06882483	-0.0640732	0.09413591
p90RSK_pT57	-0.0875806	0.27517788	0.00833838	0.06600122
PAI-1	-0.0598663	0.06939698	-0.0344773	0.06343121
PAICS	-0.0760511	0.04745542	0	0
PAK1	-0.0115562	0.03674518	0.05804582	0.08431083
PAK4	0.07778942	0.02404599	-0.0002943	0.00050968
PAR	0.64609946	0.75967465	-0.112808	0.1953892
PARP1	0.00072142	0.0187174	0.0317846	0.05505253
Paxillin	-0.0362579	0.0628005	0.02509569	0.02177194

PCNA	0.05839128	0.10113667	-0.106377	0.15900732
PD-L1	0.06661042	0.03459004	-0.1143079	0.18400085
Pdcd4	-0.0429507	0.03769545	-0.0029767	0.01633261
PDGFR-b	0.01645576	0.02850222	0.01997642	0.10667932
PDHK1	-0.03894	0.05579972	0.00258762	0.00448189
PDK1	0.02742722	0.04313806	-0.0007022	0.007305
PDK1_pS241	-0.0299105	0.06356375	0.02501495	0.02391663
PEA-15	0.02529353	0.02574276	-0.0104805	0.04885929
PEA-15_pS116	-0.0308182	0.05621419	0	0
PI3K-p110-a	-0.013372	0.07855269	0.01633678	0.01414983
PI3K-p110-b	-0.0223412	0.03869606	-0.0141461	0.0122653
PI3K-p85	-0.0201207	0.03485007	0.00330913	0.01962769
PKA-a	-0.0278758	0.08605649	-0.0218468	0.03783977
PKC-b-II_pS66	-0.0755841	0.19528289	0.04803939	0.07115836
PKC-delta_pS6	-0.0560267	0.04032155	0.01457793	0.01269272
PKCa	-0.0241734	0.05642303	0.05865296	0.07895386
PKM2	0.14487034	0.23561744	-0.0178992	0.01550723
PKC-gamma2_pY	-0.0567516	0.12227669	-0.0051454	0.00891212
PLK1	-0.0984616	0.05391588	0	0
PMS2	0.01482324	0.02567461	0.00029175	0.01952655
Porin	0.02483272	0.0357703	-0.0229295	0.02168624
PR	-0.0344472	0.05163975	-0.003401	0.01982881
PRAS40	0.04261199	0.09851003	-0.0656182	0.06742211
PRAS40_pT24	-0.0541567	0.10236713	0.01623684	0.01413444
PREX1	-0.0190677	0.01668543	0.02682481	0.02738487
PRMT5	-0.0261369	0.04527052	0.01602064	0.09039324
PTEN	0.01342867	0.06640938	-0.0074984	0.02105899
Rab11	-0.0279566	0.03769961	0.00863246	0.01542883
Rab25	-0.0447093	0.0607112	-0.0134407	0.02328005
Rad50	-0.0907299	0.07904205	-0.0266887	0.12185788
Rad51	-0.0319741	0.08255195	0.03003411	0.0520206
Raptor	-0.0691418	0.11975714	0.01882023	0.04667871
Rb	0.11090863	0.12191855	-0.0598065	0.06529101
RBM15	0.041763	0.06412079	-0.0312997	0.04009146
Rb_pS807_S81	-0.0079754	0.01564137	0.0489915	0.0478875
Rheb	0.19971419	0.3304504	0.03557139	0.07352335
Rictor	-0.0105522	0.07781411	0.08724942	0.15112042
Rictor_pT1135	-0.0827846	0.07068011	0.01955662	0.03387307
RIP	-0.0255324	0.03927665	0.03138926	0.04984916
Rock-1	0.16821401	0.08529172	-0.1147549	0.19876131
RPA32	-0.0764112	0.26885536	-0.1451703	0.25292378
RPA32_pS4_S	0.45157831	0.28158114	0	0
RSK	-0.0333562	0.03535536	0.01887234	0.01896899
S6	-0.0253562	0.04391831	0.17996607	0.24589993
S6_pS235_S23	0.04255997	0.07371603	0.09698168	0.08571822
S6_pS240_S24	-0.0049961	0.0086535	0.23657705	0.13930461
SCD	-0.0070994	0.0606433	-0.0578808	0.06655403
SDHA	-0.0228074	0.08606626	-0.04358	0.05091068
SF2	0.06087274	0.0416298	-0.0215963	0.0191879
Shc_pY317	-0.0196972	0.02518751	0	0
SHP-2_pY542	-0.0487404	0.13322056	0.04442003	0.04886147
SLC1A5	-0.0085341	0.19715009	0.01448335	0.01265016
Slfn11	0.00567536	0.04519937	-0.0849927	0.08483533
Smac	-0.0514488	0.25774977	-0.0585418	0.05080623
Smad1	-0.0581814	0.06340472	0.0155984	0.01317406
Smad3	-0.0666084	0.11536915	-0.0184042	0.04578918
Smad4	-0.0246908	0.02761168	-0.0240809	0.04170941
Snail	-0.0011645	0.03770468	0.00566997	0.02700678
SOD1	0.00399036	0.0243598	-0.0513079	0.04871084
SOD2	-0.0348134	0.0302338	-0.0083585	0.01447731
Sox2	-0.002432	0.08285719	-0.0528879	0.10258144
Src	0.03173637	0.0384268	0.01372977	0.03127019
Src_pY416	-0.0272115	0.09332532	0.09331779	0.14046157
Src_pY527	0.05419269	0.0512531	0.03304226	0.07073106
Stat3	-0.0115098	0.01993554	0.04666747	0.08850381
Stat3_pY705	-0.0390592	0.07622616	0.00468938	0.03585175
Stat5a	0.01255767	0.02175052	0.01644709	0.06676514
Stathmin-1	-0.0286318	0.05360971	0.00288869	0.0217283
Syk	0.01637277	0.0553757	0.01621627	0.14328879
Tau	-0.053607	0.09285	-0.0006482	0.04551233
TAZ	-0.0071816	0.01958683	-0.0092322	0.0695788
TFAM	0.00932652	0.01615401	0.09735493	0.12354965
TFRC	-0.0280103	0.02198331	0	0
TIGAR	-0.0372469	0.09402451	-0.0050981	0.00883009
Transglutamina	0.06246013	0.05789137	-0.0594317	0.10293872
TRIM25	0.18074917	0.14377857	-0.1502506	0.16429905
TSC1	0.0061162	0.01059357	0.05320605	0.10445407
TTF1	0.04625652	0.18837196	0.0017558	0.00304114
Tuberin	-0.0838905	0.07422043	0.00074664	0.0026562
Tuberin_pT1462	0.00327771	0.06257879	0.00498554	0.00595724
TUFM	0.25685398	0.15379478	-0.0888513	0.15389488
TWIST	-0.0142927	0.0289335	-0.020061	0.0347466
Tyro3	0.06602481	0.19082017	-0.0657693	0.17296274
UBAC1	0.03847536	0.03346632	-0.0123346	0.01115207
Ubq-Histone-H	-0.0470684	0.02572653	0	0
UGT1A	0.02923483	0.06467841	-0.0057438	0.0099485
ULK1_pS757	0.09310585	0.14562206	-0.0857778	0.18731479
VASP	-0.0667499	0.04033665	0.01083606	0.01577889
VEGFR-2	0.02936361	0.02547991	-0.0127637	0.02517139
VHL-EPPK1	0.08751373	0.12228147	0	0
Vimentin	-0.0037407	0.09565291	-0.015182	0.04528013
Wee1	0	0	-0.0645579	0.08519142
Wee1_pS642	-0.036947	0.02594525	0.0818339	0.14174047
WIPI1	0.05210117	0.0472208	-0.151426	0.20559324
WIPI2	0.08869857	0.13775635	-0.120961	0.0756951
XBP-1	0.05324329	0.08086865	-0.0335199	0.05805813
XPA	-0.1422863	0.16019901	-0.0234856	0.0720299
XPF	0.18851846	0.05611387	-0.0465238	0.07156132
XRCC1	0.03899624	0.10506079	0.01341532	0.02323602
YAP	0.013734	0.36991744	-0.1222421	0.25253033
YAP_pS127	-0.0153305	0.07537141	-0.0129638	0.04752856
YB1_pS102	0.03412668	0.05974923	0.00112697	0.0140468
ZAP-70	0.0200165	0.0173348	-0.0741994	0.04452514