

Proteomic profiling of patient-derived glioblastoma xenografts identifies a subset with activated EGFR: Implications for personalized drug development

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Table S1. RPPA Protein expression data of 20 PDGX

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Sample Source	Sample ID	TCGA Subtype	14-3-3_beta-R-V	14-3-3_zeta-R-V	4E-BP1-R-V
Xenograft	08-0308	Classical	0.648126729	2.925190815	0.551927027
Xenograft	08-0500	Classical	0.562788224	3.10277634	0.640302946
Xenograft	08-0549	Classical	0.639044902	3.469100797	0.390563509
Xenograft	09-0155	Classical	0.676700711	4.614051748	0.500486896
Xenograft	09-0211	Classical	0.58607535	2.86364797	0.561247172
Xenograft	09-0394	Classical	0.547883253	3.199386974	0.592782082
Xenograft	09-0584	Classical	0.555441638	2.825814007	0.437552916
Xenograft	10-0171	Classical	0.56862968	2.202164205	0.458068877
Xenograft	08-0430	Mesenchymal	0.55642681	2.478197168	1.052163131
Xenograft	08-0679	Mesenchymal	0.644304025	2.870952015	0.640926344
Xenograft	09-0337	Mesenchymal	0.61667714	3.948346315	0.42828662
Xenograft	09-0362	Mesenchymal	0.960556996	1.28408814	0.651620885
Xenograft	09-0477	Mesenchymal	0.637472654	6.015892287	0.713004416
Xenograft	09-0500	Mesenchymal	0.620155692	3.704319634	0.715579803
Xenograft	09-0627	Mesenchymal	0.709251244	2.600264072	0.568008131
Xenograft	11-0040	Mesenchymal	0.733962541	2.1912973	0.836946795
Xenograft	08-0478	Proneural	0.780279862	1.888910249	0.565097867
Xenograft	08-0499	Proneural	0.592011258	3.091373001	0.891882283
Xenograft	08-0624	Proneural	0.670838589	2.991234624	0.875154231
Xenograft	10-0021	Proneural	0.534887393	3.109579612	0.448090698

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4E-BP1_pS65-R-V	4E-BP1_pT37_T46-R-V	53BP1-R-E	ACC_pS79-R-V
0.743067759	1.557073361	0.675907855	2.492662991
0.890295989	2.239397087	0.922186877	2.38521641
0.849085947	2.343679115	0.988990293	1.426914335
0.779419282	2.801757783	1.455014518	1.322061877
0.832583978	1.600264631	0.636309392	0.804923225
1.196945465	1.725705359	0.572768058	2.986311386
0.733107741	1.796301311	0.908916315	1.248387615
0.822518545	1.635260882	1.165683274	2.253547426
1.171232867	2.941009123	0.822182583	3.606980475
0.892765781	2.262392407	1.03225308	1.669938468
0.924918359	1.672792931	0.499973247	0.724792313
0.635700452	0.864293692	0.451270851	7.674826669
1.062884424	2.098325514	0.506087539	1.69396849
1.026541728	2.340583683	0.686151731	2.092685964
0.861720999	1.712527366	0.808973432	0.75343355
0.653275511	1.812060432	0.1540807	1.216820804
0.636872735	1.792824499	0.333157357	5.149504809
1.021693125	2.749515215	0.343370823	2.126423247
0.709141637	1.388183443	0.254602604	0.899402586
0.783867107	1.845027179	1.025835126	1.344624752

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ACC1-R-E	ACVRL1-R-C	Akt-R-V	Akt_pS473-R-V	Akt_pT308-R-V
4.268731905	0.306774176	14.22871739	1.147097512	0.496612406
3.884742265	0.313047183	12.79182654	6.465276593	2.861573979
2.150786285	0.265453016	14.10841509	1.038952375	0.348724678
1.470167947	0.297596988	12.99222301	4.708419573	1.717565641
1.164845135	0.270476353	22.45103075	3.93681692	1.924396756
4.576534238	0.246097919	14.88530068	9.172363461	3.186919199
1.64899579	0.332096853	14.91487968	4.114799208	1.332604626
3.677385242	0.331587325	14.30525523	3.701122357	1.079096843
6.1741912	0.315433097	14.06051289	2.93427934	0.896009893
3.382884645	0.358638314	15.8117987	3.051582997	0.797567875
1.414133568	0.278672412	20.36451637	4.306128552	2.012405123
17.37382984	0.67601306	3.920487586	0.612556631	0.394204467
3.149320963	0.302538963	4.487459207	4.744632043	1.717200448
3.886794689	0.300652215	14.79792228	0.596117277	0.357832208
1.283626443	0.298906934	10.29041677	1.48238209	0.559153507
1.535588179	0.382799269	16.01683625	1.302869936	0.602843726
9.423777915	0.447601351	8.689973493	1.567980129	0.654144547
4.136242855	0.571508412	11.0122114	3.10623513	0.813984647
1.645863269	0.31339174	6.062929327	2.960568884	1.181474296
1.887232542	0.33081396	21.52545212	4.85355379	1.59358508

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AMPK_alpha-R-C	AMPK_pT172-R-V	Annexin_I-R-E	AR-R-V	Bad_pS112-R-V
0.801945515	3.211867874	1.135245825	0.433709733	0.657042944
0.794641412	3.581880049	1.436183598	0.275725792	0.542081621
0.616436669	2.285452077	8.172143717	0.228596417	0.787577692
0.682932044	2.277534251	3.334518417	0.329503204	0.550101411
0.74817316	2.017794823	4.101013518	0.270159406	0.676305881
0.65549474	1.889020702	0.951969818	0.296809909	0.555370677
0.737469941	2.482799049	2.519231788	0.270382077	0.627836333
0.776470145	2.23470167	2.832678438	0.240584254	0.558389081
0.604209553	1.509670213	4.05596061	0.192531663	0.6259235
0.699574091	2.289795072	4.882447244	0.303494112	0.568176487
0.993133371	2.035755007	3.44550602	0.231142299	0.577321071
0.846074062	2.642916652	0.586906418	0.396519169	0.563596938
0.990779392	2.842398064	9.540018079	0.28513108	0.553530841
0.84036774	1.877679972	8.668624559	0.238016999	0.641615595
0.75146213	1.453355183	3.742777545	0.417655708	0.566936103
0.841121633	2.574450052	3.151991817	0.404478245	0.768277036
0.91861472	1.539947862	1.143163431	0.344634249	0.480555773
0.745525477	1.934319955	0.209506736	0.228073958	0.606882026
0.564149966	1.023664085	1.177407439	0.311546604	0.471870631
0.738885606	3.074063145	2.458575317	0.269121557	0.687751753

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Bak-R-E	Bax-R-V	Bcl-xL-R-V	Beclin-G-C	beta-Catenin-R-V
0.555202875	0.679787837	0.559227279	0.270441023	2.099792912
0.498371987	0.490795265	0.37428546	0.221396741	2.009325505
0.540265679	0.664484882	0.497761423	0.218461429	4.016554086
0.504784367	0.793209412	0.658474825	0.202421846	3.018104727
0.584777826	0.656151286	0.611018057	0.208139152	3.763217584
0.582814046	0.606678165	0.512693369	0.182160456	2.357599249
0.587055986	0.686094798	0.46549419	0.20972338	2.67929393
0.599847278	0.616600175	0.558534438	0.209186826	3.463562722
0.749577081	0.578928644	0.422138429	0.178290372	2.859272907
0.565161476	0.500591608	0.520953875	0.227749448	1.644503456
0.556256652	0.824996971	0.529567328	0.204772454	3.303746507
0.521094385	0.464044467	0.661594225	0.654549193	0.720238636
0.604330311	0.55914657	0.672890929	0.219483537	1.517513973
0.530053348	0.49766494	0.478210088	0.235698385	2.101733638
0.59570851	0.629016538	0.694821862	0.25933917	1.630299189
0.67020816	0.625197686	0.765131741	0.230150541	1.894967994
0.632190874	0.531480561	0.617650945	0.357698801	1.577733675
0.898461462	0.731373054	0.558048886	0.212627074	2.801964783
0.595692639	0.779626146	0.57130172	0.233027068	1.133552233
0.571962667	0.667913035	0.423363687	0.200801441	2.876213605

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Bid-R-C	Bim-R-V	c-Kit-R-V	c-Met_pY1235-R-V	c-Myc-R-C
0.68617966	0.57428195	0.146509808	0.491809878	10.73155809
0.57269376	0.403154384	0.132948702	0.486108816	7.669879721
0.718462522	0.36553324	0.132763361	0.510241188	10.30599204
0.696586208	0.352461599	0.133512397	0.470124852	10.58964189
0.706370586	0.399437877	0.146799103	0.494955904	9.800615886
0.727549558	0.274570044	0.130465587	1.330494402	8.008935593
0.660377079	0.384167851	0.148537433	0.480567439	9.010972998
0.856616524	0.345215928	0.138737188	0.544421001	7.756876036
0.792730285	0.343825192	0.139449151	0.535189804	19.68410181
0.621106746	0.400216656	0.147266403	0.526541607	8.659951154
0.732367122	0.361972763	0.20076403	0.456053038	6.370732455
0.549974257	0.520516478	0.269715179	0.515496367	18.38853398
0.781606705	0.281128545	0.155266229	0.908847779	10.25978332
0.577419129	0.323000642	0.146345778	0.492737031	10.1055906
0.7134871	0.405590967	0.179751813	0.532538236	8.821103702
0.985526965	0.406896805	0.174988818	0.59192223	9.302878666
1.094358414	0.496732707	0.190543532	0.630771226	12.18617033
0.775470165	0.657828283	0.890096766	0.548582597	11.5559514
0.931791075	0.412906667	0.157077035	0.614480183	15.7671607
0.634745104	0.366582859	0.142719301	0.48525512	9.014044023

Table S1. RPPA Protein expression data of 20 PDGX

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C-Raf-R-V	C-Raf_pS338-R-E	Caspase-7_cleavedD198-R-C
0.872755875	0.724592737	0.231491181
0.807509584	0.610629078	0.142999346
0.776186626	0.555498925	0.176353142
0.679104002	0.702774609	0.219158782
0.8244627	0.547885605	0.208383517
0.907964499	0.678821651	0.201544882
0.818687821	0.652555853	0.184697527
0.894787745	0.69205663	0.176911466
0.933940537	0.721349799	0.341058041
0.911018583	0.834647678	0.147992188
1.058320852	0.586769541	0.183399929
0.608670889	0.567169788	0.462649631
0.632928899	0.647677063	0.241757894
0.607360977	0.494213146	0.17603122
0.730250386	0.685154979	0.177166446
0.756996284	0.668585702	0.202861616
0.640517151	0.620972511	0.227098583
0.812855175	0.538746406	0.18200049
0.608278372	0.625541416	0.297833918
0.908988806	0.694103939	0.152903683

Caspase-9_cleavedD330-R-E	Caveolin-1-R-V	CDK1-R-V	Chk1-R-E
0.376289412	1.150134084	1.110952527	0.561738814
0.469507257	0.536993891	1.024098149	0.469516973
0.478542953	0.556278454	1.017515626	0.508600115
0.58886431	0.748536752	1.322194013	0.623076531
0.472262297	4.859854597	1.025700409	0.508772976
0.525511174	1.430099852	1.402004304	0.551583069
0.48300641	0.925099386	1.227655867	0.534636274
0.508440402	0.597281549	0.97654394	0.569209997
0.497335297	3.772388173	1.591906865	0.562592058
0.41581161	0.975471676	1.103773646	0.610268778
0.369246265	3.772159288	1.082252572	0.490656959
0.782591889	2.135942588	0.79741199	0.610605773
0.450075725	13.75184346	1.299274094	0.526785007
0.409820009	14.92343517	1.19299494	0.567006718
0.378506365	3.414134771	1.06969099	0.604310068
0.443574047	0.741439191	0.871087587	0.540430213
0.504208617	3.66657526	0.853027952	0.576949608
0.615492698	0.48158526	1.789229439	0.621559564
0.446401376	0.935248362	1.313713286	0.657378841
0.531647024	0.677948143	1.387335419	0.556624688

Table S1. RPPA Protein expression data of 20 PDGX

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Chk1_pS345-R-E	Chk2_pT68-R-E	cIAP-R-E	Claudin-7-R-V	Collagen_VI-R-V
0.316813512	0.256129458	1.158603681	0.408035735	1.333795697
0.308285011	0.221410604	1.077174069	0.303862331	1.008894248
0.465732209	0.286635981	1.534988828	0.288155214	1.386201871
0.326717251	0.222086248	0.994847106	0.289970654	1.282430162
0.27960857	0.210639531	1.271591095	0.336090963	1.307645872
0.380858057	0.290362672	1.359809176	0.313077588	1.143797843
0.345456551	0.344198251	1.269678984	0.324705669	1.242251875
0.730618937	0.710160304	1.087837512	0.328441202	1.049260976
0.455946864	0.551547721	1.583800295	0.303967359	1.204806082
0.275408003	0.214202913	1.519575849	0.336858935	1.138107577
0.314478066	0.255796214	1.030389942	0.324798532	1.089129746
0.40069778	0.560643363	0.73099496	0.501338292	1.091221793
0.320359864	0.37930387	1.415124879	0.326444	1.417538289
0.274031715	0.239400979	1.823839602	0.316837216	1.492711084
0.305691147	0.231564815	1.610669039	0.369855481	1.668343535
0.352253715	0.435361432	1.207090357	0.555444442	1.813292585
0.301840348	0.325693128	1.039867618	0.58703001	1.990535406
0.514768259	0.452451448	1.243602667	0.330649528	1.104675952
0.331188668	0.318454202	1.307023316	0.490803342	2.025855138
0.340231421	0.258473511	1.432523468	0.306017938	1.381615041

Table S1. RPPA Protein expression data of 20 PDGX

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Cox2-R-E	Cyclin_B1-R-V	Cyclin_D1-R-V	DJ-1-R-E	Dvl3-R-V
1.04163809	0.890236794	0.540071589	0.622005234	0.525511652
1.106943271	1.022977474	0.443865102	1.732861187	0.530375477
1.927790263	0.434940447	0.554103466	1.668095187	0.308293089
0.983236979	1.020176755	0.547604595	1.234891224	0.448536867
2.580557016	0.797707246	0.616651688	0.981868517	0.441183265
2.380113896	1.516375107	0.703510511	1.002691602	0.501143009
1.71800511	0.89952628	0.663927714	0.971123553	0.38660407
1.460132431	0.711678084	0.707714792	1.389563301	0.459592398
1.799667855	1.20779873	0.85761007	1.318999381	0.649386204
0.961285716	0.88470772	0.500339746	1.668999106	0.640028119
1.46305367	0.970326003	0.741508423	0.872930068	0.580333516
0.775899497	0.432005296	0.700065024	0.841586621	0.773371396
4.073537963	1.853447309	0.743267801	1.151894107	0.403302725
1.755162047	0.955436804	0.495720436	1.320507722	0.420361019
1.524809385	0.817899882	0.702744384	0.916909351	0.506920781
1.808059915	0.482222234	0.898545848	1.426473737	0.437033813
0.924318604	0.320428411	0.630225996	1.446762185	0.529778519
1.464295618	1.315047058	0.885266962	1.435567022	0.420199217
1.719793439	1.038840247	0.769959034	1.221185727	0.442490133
1.466450301	1.081626195	0.595183252	1.029884862	0.436324186

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E-Cadherin-R-V	eEF2-R-C	eEF2K-R-V	EGFR-R-V	EGFR_pY1068-R-C
0.038158248	1.187586617	0.299095594	0.427635846	0.282412511
0.039763815	1.094120162	0.444661925	1.172718043	1.110567406
0.036092653	0.920971562	0.218566615	1.658873676	0.894212666
0.028045539	2.750993532	0.247965387	5.823832605	2.006789849
0.0327546	1.40970249	0.265759025	0.5018853	0.04896722
0.028063579	3.836570064	0.572074675	0.350622211	0.16716583
0.026187754	1.063606463	0.263443851	3.244375315	2.290441829
0.029688094	1.739907209	0.286453173	2.149403605	1.969151207
0.039623588	2.972905856	0.649926313	2.265425379	7.145128372
0.026060787	1.266105612	0.242131335	0.559219934	0.137540367
0.027583708	2.197435143	0.39584812	0.496148791	0.04638046
0.297738649	0.726747541	0.34536149	0.371579937	0.43611914
0.026688496	1.876928279	0.338370324	0.670902676	0.235492657
0.043055786	1.124229105	0.335246059	0.44420222	0.362314955
0.027281354	0.953790046	0.377540697	0.572175041	0.104479088
0.033677689	1.910821552	0.691499601	0.302666132	0.072485756
0.079723478	1.093177938	0.249991801	0.299003214	0.080195503
0.041142086	2.754244609	0.298035261	0.237394974	0.050456669
0.0328179	2.336426276	0.330001975	0.276682341	0.072774661
0.031777047	1.310937723	0.323109735	4.318417173	3.602142994

Table S1. RPPA Protein expression data of 20 PDGX

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EGFR_pY1173-R-V	eIF4E-R-V	eIF4G-R-C	ER-alpha-R-V	ER-alpha_pS118-R-V
0.747726553	0.91138423	6.837486664	0.107667543	0.601329141
0.774309263	0.925915475	11.53204654	0.095068687	0.559630745
0.884693626	0.756423857	5.68656112	0.08225504	0.544273068
1.266508462	0.945588246	5.525255221	0.069878731	0.519251516
0.82495824	0.929776314	7.87537098	0.080479194	0.57336764
0.723315089	0.930248212	11.28018025	0.078665747	0.539691409
1.1989784	0.864788488	6.243060768	0.079514675	0.536547451
1.23357454	0.758769214	4.341668455	0.077537049	0.562323982
2.099969463	1.026995054	9.651178672	0.079268725	0.508421697
0.734912007	0.969715928	10.29305997	0.085952115	0.517874155
0.753211012	0.760287655	8.744270042	0.079993466	0.542593987
0.701008211	0.866012118	1.555259853	0.381818303	0.863132471
0.795677882	0.663652598	6.494814312	0.085124367	0.495749532
0.755366032	1.286759402	9.150795031	0.094683523	0.567351894
0.81347504	0.812123761	5.499467676	0.085184585	0.540510047
0.872120909	0.83241406	8.042456994	0.106066607	0.575371945
0.815438583	0.906091635	2.893527875	0.162925894	0.648815655
0.78855473	0.843797546	7.749759724	0.085110649	0.537221646
0.883762492	0.891671132	3.712431	0.105944751	0.584450907
1.402753298	0.929504776	6.574164257	0.081849886	0.599655491

Table S1. RPPA Protein expression data of 20 PDGX

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Fibronectin-R-V	FOX03a-R-C	FoxM1-R-V	Gab2-R-V
11.16661675	0.213720465	0.341373673	1.246551328
4.567870886	0.198755995	0.273833854	2.157102529
12.52379492	0.167974363	0.088506778	2.308472506
8.670252304	0.207229652	0.335644634	1.700160425
14.84959871	0.165581802	0.177279883	2.46325473
8.75516171	0.1641098	0.344144056	1.772442199
9.035197671	0.158741332	0.232574634	2.541691653
8.536156491	0.178315489	0.207591846	0.851176217
9.28902905	0.169005914	0.274420991	1.11679311
10.69803277	0.187804023	0.305338773	3.287678921
22.8710716	0.165768923	0.28749947	1.069970581
4.979667306	0.628207294	0.275887804	0.659576485
29.05340802	0.179071842	0.280507988	0.632696692
4.808455264	0.192249059	0.359500773	1.01672132
35.27510321	0.185789043	0.279040189	1.696089204
36.4766671	0.183085547	0.112540796	0.996458612
19.19006653	0.283636621	0.129197505	1.077856041
9.884522357	0.176972946	0.547074496	1.631225932
15.46417675	0.176855207	0.142257234	2.744583741
8.104589979	0.155858758	0.254347548	2.778918269

GSK3-alpha-beta_pS21_S9-R-V	GSK3_pS9-R-V	HER2_pY1248-R-C	HER3-R-V
1.672933026	0.802513754	0.36891992	0.169227501
2.101051837	1.245383677	0.75264764	0.18165819
2.316251968	1.257056311	0.759495171	0.155981265
1.534301798	1.521283201	1.423549153	0.151034631
1.343698116	0.819289052	0.190845184	0.15465417
2.946095891	1.890957504	0.479876312	0.154240319
2.774204796	1.440943575	1.674229008	0.155486395
1.971098958	1.455390006	1.305984839	0.287776323
1.897328258	1.376542833	4.751866402	1.134171041
1.564519717	0.986567497	0.35043286	1.316522948
2.462102398	1.278445437	0.254550416	0.147198964
0.729504316	0.475558323	0.436314	0.550036615
1.788207473	1.063011941	0.392554359	0.14676772
1.907196954	0.677384874	0.363337361	0.156893805
1.155167837	0.75141743	0.280931439	0.169527804
1.523612438	0.751520309	0.274549012	1.959132496
1.074011133	0.766031024	0.206736579	0.795644438
2.624241116	1.897630357	0.245159531	1.224405163
1.523713793	1.392459643	0.24850708	0.894630223
3.318880745	1.746323525	2.466663536	0.186054511

Table S1. RPPA Protein expression data of 20 PDGX

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HER3_pY1298-R-C	IGFBP2-R-V	INPP4B-G-E	IRS1-R-V
0.440221565	2.591872542	0.217990656	0.319927464
0.412452458	2.268147625	0.155968963	0.341835124
0.39142741	3.673546055	0.151508563	0.268323336
0.372410604	1.925970743	0.173943442	0.302740253
0.405324489	0.793963488	0.236698015	0.366512566
0.451337026	2.581987136	0.132360831	0.242626578
0.425604072	3.388683523	0.197109089	0.260872725
0.466212906	4.529141582	0.162563831	0.291532778
0.512029246	3.218931414	0.162555695	0.288945915
0.461273686	1.597052339	0.218660677	0.354836795
0.397067364	1.216552581	0.281464337	0.5011346
0.563646168	0.290471631	0.501335758	0.776199922
0.438728929	0.609037695	0.150318693	0.295497305
0.5167323	1.057114317	0.915456308	0.635441309
0.457092739	0.914324068	0.254333528	0.405328091
0.488313328	0.273497623	0.182935472	0.460927637
0.568708977	0.377103001	0.295217086	0.45492307
0.482906709	1.666734857	0.178065477	0.315560765
0.511555106	5.931202395	0.198241182	0.307399553
0.43092876	3.296142413	0.188905044	0.268580719

Table S1. RPPA Protein expression data of 20 PDGX

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JNK_pT183_pT185-R-V	JNK2-R-C	Lck-R-V	MAPK_pT202_Y204-R-V
0.369165257	0.33564802	0.801268934	0.179649693
0.296728222	0.328738497	0.760604302	0.24185852
0.368128346	0.297500996	0.701462995	0.278951674
0.329889578	0.33528711	0.870080223	0.900329441
0.325457034	0.346114599	0.866588751	0.394440681
0.372009181	0.297301082	0.446601823	0.427216063
0.352831686	0.328369513	0.680549211	0.683249092
0.372188244	0.413796167	0.603012586	0.337340371
0.361470039	0.318802661	0.471094024	0.115742888
0.327436086	0.414133115	0.698129833	0.170039586
0.296930663	0.477928415	0.963005948	0.164715909
0.579685098	0.503377121	0.630620673	0.290666817
0.353662144	0.301512345	0.610388341	0.359216209
0.336716956	0.527088994	0.688314231	0.200552661
0.32716328	0.487950172	0.695178974	0.28623522
0.367509231	0.391732572	0.533000985	0.110795668
0.482105834	0.4134329	0.863655078	0.129931561
0.339818991	0.426354675	0.572145124	0.070925637
0.408001728	0.35387687	0.39795276	0.11137867
0.385703083	0.3030658	0.595372635	0.842242982

Table S1. RPPA Protein expression data of 20 PDGX

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MEK1-R-V	MEK1_pS217_S221-R-V	MSH6-R-C	mTOR-R-V
0.25524432	0.088996204	2.342972347	1.916760503
0.527978783	0.117590855	3.26680091	3.487844827
0.381478379	0.059694934	2.788437144	2.827058831
0.60881309	0.178186304	2.319580608	1.163864279
0.498202693	0.080655529	2.466840154	2.273788004
0.744957584	0.142795881	4.856135215	2.073072061
0.395900646	0.080669987	2.820622478	2.601352326
0.418967344	0.0862435	4.275467794	2.113785933
0.343603724	0.070574907	4.442472682	2.080514055
0.326519053	0.085231222	3.534094037	2.114274569
0.512769466	0.113503788	4.132595014	1.896289429
0.374347481	0.215139718	0.762616014	1.292190278
0.383635419	0.102537753	2.8844548	1.840723734
0.42287043	0.092711866	1.601629699	1.577136886
0.534260378	0.093698486	2.986817477	1.633593663
0.443483591	0.074049384	2.400111864	2.475615475
0.157384229	0.087157231	1.96008135	1.60706449
0.318096406	0.065227911	5.94123769	2.530987449
0.383967914	0.058149824	2.189119203	0.905975439
0.43454221	0.079459143	3.00562021	2.916084921

Table S1. RPPA Protein expression data of 20 PDGX

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mTOR_pS2448-R-E	MYH11-R-V	N-Cadherin-R-V	NDRG1_pT346-R-V
0.383221843	5.443902423	0.601813125	1.545494109
0.62024878	3.309291445	0.455550826	0.489882934
0.570982632	5.057897195	0.549584051	0.535364845
0.304374518	10.27147124	0.564284169	0.348033584
0.470728205	3.023521947	0.604280548	0.819708302
0.464906534	2.51528349	0.505926689	2.580370318
0.50671067	6.191793174	0.524282167	0.898710431
0.502819114	15.14581756	0.494715926	0.407834408
0.412301906	2.763894202	0.472036289	0.635973384
0.439162462	2.433748009	0.379626559	0.595377332
0.45176404	5.213064548	0.412222663	0.452751143
0.644633646	8.659268064	0.473384522	0.571562551
0.400075084	2.95573538	0.408436553	2.888738818
0.416338419	1.682259221	0.662998197	0.35069775
0.389403846	6.652706342	0.45454704	1.347150477
0.343529032	1.520965039	0.441081514	1.911879236
0.433777672	42.21886305	0.414620856	0.608791152
0.454749391	2.822263154	0.554413655	0.614221091
0.171014103	1.527075774	0.501982975	0.899217491
0.533921282	5.875483726	0.527260509	0.636040662

Table S1. RPPA Protein expression data of 20 PDGX

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NF-kB-p65_pS536-R-C	NF2-R-C	Notch1-R-V	Notch3-R-E	p27-R-V
0.27649226	1.766018849	0.319492929	0.547731133	0.199913745
0.296647142	1.237057229	0.399093349	0.745472687	0.263664088
0.525020745	1.45391945	0.39800268	0.491678223	0.247774633
0.259177224	1.422276089	0.44645025	0.387183579	0.210022362
0.194032688	2.015908179	0.503604356	1.550362248	0.215787703
0.32095397	1.701840414	0.611533718	0.31857168	0.197051326
0.285276739	1.606247265	0.496911563	0.548148767	0.233742229
0.306044025	1.713552091	0.337717599	0.908201569	0.219466417
0.376417983	1.796684219	0.402848943	0.367899555	0.207520863
0.320473859	1.275872153	0.543928064	1.314624005	0.206363408
0.357524129	2.292748567	0.285582364	1.119945592	0.322252124
0.316868081	0.698815683	0.310374853	0.499908234	0.923306917
0.364545586	3.058984626	0.174114439	0.210419586	0.18937907
0.567569287	1.920559063	0.179737558	0.261432739	0.192162263
0.284034316	1.752162674	0.302325949	1.269900017	0.20908557
0.420458879	1.570581628	0.245171314	0.40236802	0.248890766
0.230738526	0.873593736	0.255695736	0.456465634	0.264745235
0.182425847	1.667719164	0.500761	0.472975347	0.236104317
0.170444314	1.693449912	0.335517539	0.261611755	0.243898828
0.274409958	1.73530756	0.508496915	0.589996111	0.22640775

Table S1. RPPA Protein expression data of 20 PDGX

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p27_pT157-R-C	p27_pT198-R-V	p38_MAPK-R-C	p38_pT180_Y182-R-V
0.475273104	0.256914392	1.128163804	0.559938318
0.47256317	0.258033472	1.098232033	0.288150308
0.471326285	0.248399368	0.602134367	0.282867821
0.489425651	0.277323634	1.036322562	0.325182083
0.471165464	0.261887468	1.042480659	0.250972888
0.444197764	0.24604735	0.641894984	0.371342831
0.480787713	0.259572266	0.88790075	0.454423659
0.492159322	0.255609847	0.716544363	0.28055114
0.542660035	0.270355363	0.748900997	0.246872152
0.469012031	0.250336834	0.995823338	0.374958431
0.446282006	0.256019734	1.15725502	0.3266352
0.636622557	0.390037044	1.041467707	0.458240928
0.441313468	0.243606261	0.749583296	0.343162144
0.479081229	0.233601777	1.084028803	0.295177457
0.512905389	0.263327719	1.013362493	0.251983257
0.509251648	0.300435316	0.668276302	0.221894664
0.517350901	0.291340931	1.141448346	0.27618966
0.519417164	0.306876595	0.86119071	0.277117959
0.526722183	0.287035831	0.54539994	0.216809849
0.47925176	0.266191844	0.929930121	0.416843554

Table S1. RPPA Protein expression data of 20 PDGX

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p53-R-E	p70S6K-R-V	p70S6K_pT389-R-V	p90RSK_pT359_S363-R-C
0.261671164	0.458821827	0.116122073	0.415486587
0.284563989	0.516168828	0.243501293	0.409550259
0.254573153	0.275109712	0.423766104	0.356695802
0.220141639	0.405125216	0.200439441	0.431045356
0.239876593	0.407929285	0.372591952	0.383375542
0.223311087	0.33718666	0.247319509	0.391402062
0.246858921	0.366427106	0.295747587	0.456826807
0.238721458	0.344230098	0.413328438	0.389987027
0.238031388	0.437137399	0.197272944	0.383309027
0.242492401	0.493255782	0.302169799	0.404411695
0.213306995	0.467852127	0.389603141	0.343348857
0.615622814	0.581092751	0.388432694	0.807690463
0.845197342	0.309002146	0.20514788	0.364574184
0.247322263	0.630045231	0.242147226	0.419656658
0.236862429	0.470620907	0.336732632	0.392837074
0.235257073	0.437032307	0.115019063	0.358720176
0.369093111	0.39565045	0.289003484	0.456625367
0.36841914	0.47029176	0.271452112	0.314120611
0.275751886	0.334024528	0.152706918	0.353693927
0.217435025	0.400413542	0.260932681	0.487526939

Table S1. RPPA Protein expression data of 20 PDGX

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Paxillin-R-V	PDCD4-R-C	PDK1-R-V	PDK1_pS241-R-V	PEA15-R-V
0.332869846	0.977131631	0.291459569	0.86941204	1.816575884
0.258016564	0.936223135	0.278117653	0.840505025	1.241598478
0.249687071	1.017228083	0.207341913	0.529284181	2.224139657
0.61774477	0.900732526	0.258990884	0.689625741	1.919287602
0.402393274	0.997120265	0.262261761	0.812021406	1.340105809
0.456432831	0.883538566	0.295509245	0.90564932	0.982406275
0.278921804	0.83082515	0.252048765	0.776543188	1.770514186
0.364800907	0.775410159	0.269766431	0.583434731	1.028474021
0.323349708	1.320851564	0.222860817	0.581566994	0.678222665
0.478771362	1.262235035	0.246286256	0.776335164	1.004457525
0.391503839	0.998558122	0.2755971	0.827860508	0.775742728
0.331791292	0.915823229	0.597607539	0.616313745	0.693886979
0.373814718	1.11276857	0.237884352	0.680027726	0.842788573
0.658149646	1.242761037	0.375861113	1.147492475	1.534416406
0.440407323	1.047826666	0.23486027	0.885055495	0.973073702
0.267081334	1.458885257	0.256382298	0.700181921	0.819990583
0.283911928	1.233756522	0.467046542	0.604025421	0.824151299
0.323831929	1.166404819	0.258330036	0.625364037	0.803903891
0.581209792	1.180989932	0.224036026	0.530331931	0.827558937
0.284024408	0.781277295	0.232922599	0.786753906	2.201548108

Table S1. RPPA Protein expression data of 20 PDGX

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PEA15_pS116-R-V	PI3K-p110-alpha-R-C	PI3K-p85-R-V	PKC-alpha_pS657-R-V
0.378982263	0.398267419	2.330883318	2.533018748
0.315506505	0.361466374	2.663218541	1.777262023
0.390100708	0.269363941	2.053179986	3.636020254
1.489604067	0.186067057	1.821876949	1.980626182
0.52459432	0.273103607	2.306630694	3.973249831
2.057009768	0.25767571	1.431046033	2.44816105
0.388051598	0.294413899	1.888842021	4.379499782
0.656449224	0.288111414	1.542704357	1.661268908
0.757146426	0.277559254	1.956898915	1.672518179
0.279230522	0.497552261	2.362387021	2.553779146
0.59314157	0.291802155	2.258123135	1.463222087
0.669353462	0.40120537	1.393819242	0.617065839
0.892110431	0.305070746	3.361156524	1.517373297
0.313276905	0.491409891	3.298819205	2.29493022
0.303146181	0.477214826	1.787498725	1.40551979
0.431555384	0.308576764	1.602873414	2.070982789
0.454386125	0.258426944	2.058871445	0.840441045
0.855047129	0.490592552	2.175782405	2.321967107
1.324576666	0.189246124	1.251390557	1.206703507
0.334830669	0.310328765	1.997642335	5.162826789

Table S1. RPPA Protein expression data of 20 PDGX

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PKC-delta_pS664-R-V	PKC-pan_Betall_pS660-R-V	PR-R-V
0.40925845	6.084560787	0.614688922
0.331083092	5.857789479	0.583349565
0.453455038	8.286408255	0.578953446
0.348815512	4.277027889	0.593082875
0.486286851	6.218082634	0.541750897
0.32019264	6.9455886	0.558678006
0.547643673	7.166123259	0.621857953
0.312817381	3.842428216	0.589643393
0.342606878	4.427332578	0.566251729
0.380361318	5.714068223	0.594599691
0.316753005	6.539737011	0.535822713
0.627215813	1.97692783	0.801559479
0.329082131	5.788260607	0.585097769
0.418227662	10.7542809	0.524193943
0.348154293	4.65685807	0.534421589
0.363308128	5.158837318	0.62326672
0.426635329	4.0058509	0.64635699
0.371975106	4.149272311	0.614892342
0.349921226	1.621250972	0.696801321
0.58551463	9.007009992	0.566076941

Table S1. RPPA Protein expression data of 20 PDGX

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PRAS40_pT246-R-V	PTEN-R-V	Rab11-R-V	Raptor-R-V	Rb_pS807_S811-R-V
2.399819794	1.978632923	0.897002052	0.184261047	0.096547273
3.607432344	0.631132633	0.741029776	0.21047402	0.053348566
2.649996071	1.312648893	0.833031645	0.19188876	0.069574796
2.628877681	0.793572017	0.760254916	0.132376229	0.131249679
2.81281247	1.49085003	0.802959877	0.163957049	0.096450554
3.609218252	0.403907966	0.869450094	0.162150598	0.176057341
2.880558567	1.201244488	0.931603843	0.197365797	0.118733785
2.418058084	1.322593112	0.686163588	0.191843532	0.124073146
2.993651186	0.269260593	0.705617813	0.162713032	0.112615243
3.135581845	2.860162816	0.871841306	0.156953815	0.082831446
3.037761598	0.854490712	0.721049891	0.210549834	0.057672478
1.024033413	0.763682659	1.190654138	0.126104839	0.029521473
2.061693062	0.548134961	1.200896395	0.137111531	0.079106991
1.988340685	0.727689526	0.784413138	0.154195297	0.079543109
1.89396574	1.972447335	0.829725011	0.198832548	0.053536483
1.9736989	0.654174181	0.914561104	0.21181782	0.072680794
1.35448793	1.381342794	1.471822314	0.154692396	0.028832609
2.704258151	0.375002049	0.876418487	0.213596225	0.032003983
1.849474361	0.416651141	1.898083957	0.146969841	0.053368867
3.423303561	1.280493798	0.855188134	0.202370256	0.144369136

Table S1. RPPA Protein expression data of 20 PDGX

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RBM15-R-V	Rictor-R-C	Rictor_pT1135-R-V	S6_pS235_S236-R-V
0.832141303	0.595832414	0.779580553	1.078185843
0.944824182	0.824166168	0.873597212	0.955265906
1.1647247	0.747308362	1.249796626	2.164555828
1.065496663	0.4025383	0.812333897	1.364907514
0.840925068	0.741536996	0.865882503	1.447041892
0.733733716	0.604370333	0.896212171	2.321814745
0.952926056	0.663451259	0.87085004	0.99729583
0.9801168	0.629612095	0.849182391	1.753715999
1.026159557	0.694722771	0.826909418	0.995741233
0.766076031	0.771669875	0.985978832	1.107813204
0.852166761	0.949935246	1.130043822	1.305923205
0.251781954	0.674455648	0.707297728	0.707971738
0.850413632	0.656696831	0.929971796	0.857204958
0.757120838	1.035276534	1.165338227	0.89396618
0.735501031	0.927678371	1.094401202	1.31773796
0.850413632	0.855353268	0.934690406	0.269570715
0.545253966	0.513130685	0.954635335	0.75411529
1.002368789	0.969821774	0.95882184	0.782657599
0.725254841	0.315945111	0.823470631	0.28662588
1.113738199	0.627008065	0.770176473	0.856014504

Table S1. RPPA Protein expression data of 20 PDGX

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S6_pS240_S244-R-V	Smad1-R-V	Smad3-R-V	Src_pY416-R-E	Src_pY527-R-V
1.052070541	0.787377989	0.715515937	0.892060608	1.049708179
0.820437716	0.756122762	0.699854807	0.886871378	0.897658468
1.178531418	0.884169755	0.796516337	1.364989766	0.638915322
1.223225956	0.642416347	0.72343638	1.602795465	0.660978724
1.121568687	0.652993798	0.79961537	0.608378281	0.874889447
1.939205562	0.80264421	0.712373763	1.22550131	0.550594762
0.792983601	0.703002045	0.739228649	2.336897152	1.081636824
1.285341356	0.776584815	0.720530028	1.672629474	0.770976498
0.919648067	0.77292486	0.910541415	4.29475033	1.489958547
0.920414005	0.648209837	0.690433738	0.712715496	1.33191017
0.970455676	0.819064922	0.835215738	0.592269363	1.191072968
0.615495923	0.729632416	0.840990097	0.636080984	0.799843855
0.819069066	0.683935631	0.673291991	1.472426907	0.706101354
0.764276931	0.825261306	0.665553425	0.670742916	0.563352572
0.874791802	0.649944618	0.803146324	0.55894809	1.133492434
0.349810373	0.744698345	0.817812066	0.886377982	0.796603141
0.834646698	0.743444324	0.732737337	0.50936939	0.87271859
1.127451892	0.832896071	0.858312954	0.648308365	1.001402472
0.393575482	0.810181879	0.857708358	0.648083441	0.465737296
0.703380834	0.732429396	0.720530028	3.013467885	1.074364988

Table S1. RPPA Protein expression data of 20 PDGX

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STAT3_pY705-R-V	STAT5-alpha-R-V	Stathmin-R-V	TAZ-R-V	TAZ_pS89-R-E
0.496329346	0.773769418	0.70643539	0.568370653	1.686302837
0.4202924	1.457551821	0.610682245	0.439866657	1.515267809
0.47317153	0.734425483	0.610703857	0.503034887	2.935628873
0.448645216	0.611352858	0.687936335	0.613910814	4.004774593
0.539442278	1.061987426	0.575452634	0.59555703	2.487583895
0.506054942	0.913705765	0.65866821	0.79585199	5.869346821
0.590645519	0.666729114	0.760732028	0.470228026	1.848998354
0.572827477	0.625489613	0.579770698	0.521293764	3.221961913
0.653369973	0.608592825	0.657508513	0.61221428	3.661568098
0.601388676	1.363558463	0.698809115	1.065308637	1.506381918
0.482399151	1.538230146	0.543912875	0.463497192	4.371907122
0.651006606	1.159098752	1.029610046	0.768674479	1.140420711
0.430887501	0.937179767	0.59990232	0.670016635	2.868861658
0.534772028	1.099991585	0.592416816	0.839795166	1.408761531
0.555469455	0.942866874	0.620929157	0.57012177	1.477686426
0.354420685	0.642095497	0.668114908	0.610029398	2.466861111
0.635923917	1.307776596	0.766682993	0.601262914	1.946875765
0.329689787	0.504278622	1.016743085	0.507205326	3.527784028
0.36389279	0.417235357	0.95924738	0.772113308	2.830876871
0.631275769	0.653044387	0.749554642	0.440950466	1.46314708

Table S1. RPPA Protein expression data of 20 PDGX

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TIGAR-R-V	TRFC-R-V	TSC1-R-C	TTF1-R-V	Tuberin-R-E
0.414443129	2.800350098	3.282821994	0.241349518	1.340976447
0.312053021	8.072545736	3.531837783	0.256215002	2.248871056
0.353690474	13.55668955	3.200227096	0.235625494	0.614204937
0.349760716	11.29886386	1.815197663	0.357556609	1.077822445
0.329550542	6.761104245	2.729608226	0.248855479	1.587326275
0.300131453	9.924546814	3.588329958	0.381298484	1.726719901
0.310532167	4.043203504	3.271652547	0.237700966	1.652475423
0.370706909	13.37609025	2.215346849	0.314889385	1.391193839
0.348225946	15.22955316	2.335892745	0.314011379	1.91172335
0.349760716	3.287429208	4.206176301	0.224207568	2.018102155
0.342539238	8.285841001	2.864888985	0.277020269	2.799953402
0.729134752	1.263673703	1.148102698	0.587775089	0.683944374
0.36763086	13.81116967	3.685538684	0.34400885	1.253076211
0.342619793	1.884269747	3.070503394	0.247611448	1.730064642
0.35146657	1.418581578	3.753803878	0.217061899	1.448282308
0.382201923	15.31689698	2.065089521	0.277544247	1.423569686
0.387580867	1.078522732	1.879843023	0.298119274	0.626731545
0.349514493	13.32914016	1.973646189	0.396111115	1.366613426
0.35448733	7.551689487	2.02638809	0.355363495	1.016771999
0.307519308	4.13856639	3.960715133	0.215645503	2.356503059

Table S1. RPPA Protein expression data of 20 PDGX

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VEGFR2-R-V	XRCC1-R-E	YAP-R-E	YAP_pS127-R-C	YB-1-R-V
1.594080217	0.247481674	0.585854861	0.762383641	1.079655148
1.220063	0.199465238	0.553585964	1.182431312	0.803055435
1.252558315	0.165662619	0.67500038	1.502957424	1.091031608
0.940632897	0.171438391	0.733151087	1.447134083	1.619299591
1.111242438	0.18019961	0.607325073	1.179718158	1.503694345
1.970062245	0.169498992	0.562884953	0.988536579	2.086445414
1.114799981	0.167393874	0.60536492	0.989248089	0.983660437
0.909629732	0.217612388	0.561169873	0.937943739	1.464932944
2.033704789	0.17251401	0.62605112	1.121258162	1.466196893
1.991905838	0.182824924	0.690912355	1.557954157	1.105636107
2.775067144	0.202367075	0.480528628	0.785822257	1.754074785
0.694243549	0.484811071	0.808169198	1.102057803	0.924808119
2.295395955	0.174973982	0.673234939	1.226250469	1.650711757
1.832109975	0.200075256	0.714222889	1.826263228	0.983919184
1.415230941	0.182447778	0.741443304	1.232995184	1.311928674
2.46949111	0.195086007	0.735050684	0.860715712	1.792451567
1.149775231	0.231594449	0.789372755	1.384668634	1.567903816
0.92302375	0.235529084	0.60043951	1.111805472	1.554851456
0.386693931	0.188734897	0.736162388	0.217502358	1.766500995
0.972704607	0.172009729	0.646382161	0.821733765	0.866013088

YB-1_pS102-R-V

0.595429681
0.503472048
0.690573321
0.738625691
0.604931575
0.603047734
0.628190735
0.576881737
0.528255991
0.628256313
0.597386184
0.601927923
0.571709342
0.543270537
0.682651989
0.799540546
0.765990566
0.545240857
0.865013878
0.592073786

Table S2. RPPA Protein expression data of 15 Primary Tumors

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Sample Source	Sample ID	14-3-3_beta-R-V	14-3-3_epsilon-M-C	14-3-3_zeta-R-V
Primary Tumor	08-0308	0.14117186	0.177491272	0.464609859
Primary Tumor	08-0500	0.069109967	0.223926732	0.36414338
Primary Tumor	09-0155	0.13764497	0.175494595	0.429420701
Primary Tumor	09-0211	0.198172653	0.225645791	0.733438883
Primary Tumor	09-0584	0.094412816	0.273899908	0.579392633
Primary Tumor	10-0171	0.064084467	0.236669965	0.526407814
Primary Tumor	08-0430	0.177001427	0.19498062	0.479810725
Primary Tumor	09-0362	0.125761354	0.186020649	0.479791483
Primary Tumor	09-0500	0.102618775	0.192383241	0.60884472
Primary Tumor	09-0627	0.133063153	0.26808435	0.516174098
Primary Tumor	11-0040	0.150187958	0.164199015	0.447168536
Primary Tumor	08-0478	0.137753133	0.193077991	0.490413931
Primary Tumor	08-0499	0.064663038	0.158297656	0.44494516
Primary Tumor	08-0624	0.161693251	0.184326086	0.445861488
Primary Tumor	10-0021	0.149226718	0.180938946	0.429607529

Table S2. RPPA Protein expression data of 15 Primary Tumors

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4E-BP1-R-V	4E-BP1_pS65-R-V	4E-BP1_pT37_T46-R-V	53BP1-R-V	A-Raf-R-V
0.468656996	0.363342064	0.216936568	0.306511127	0.220301021
0.795546255	0.841780105	1.212974156	0.18732456	0.095094453
0.468895753	0.45203963	0.470659847	1.059337846	0.227077586
0.545807739	0.653536199	0.192068452	0.745384035	0.339867736
0.317720733	0.31579812	0.248487095	0.159657804	0.140926056
0.504181641	0.448247851	0.5370653	0.442720832	0.211640375
0.461576265	0.366899812	0.211967728	0.297390606	0.213748965
0.472335565	0.432898933	0.633847832	0.379923208	0.244646946
0.476054193	0.418327454	0.523579201	0.177729166	0.138058064
0.406939937	0.410288999	0.454515159	0.256874775	0.163222002
0.493446114	0.516480105	0.568946311	1.197631772	0.221929528
0.506737849	0.359537306	0.354524292	0.713502969	0.131546428
0.641253642	0.832900514	1.263076528	0.194057933	0.191588899
0.473261741	0.436817785	0.441242147	0.982714572	0.244111529
0.347498502	0.611425562	0.475153953	1.754825286	0.264836577

Table S2. RPPA Protein expression data of 15 Primary Tumors

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ACC_pS79-R-V	ACC1-R-E	ACVRL1-R-C	ADAR1-M-V	Akt-R-V
0.242596168	0.296072411	0.176756939	0.13504676	0.627598129
0.07699851	1.24352298	0.259640123	0.142253865	0.182083757
0.291460672	2.467338097	0.139718354	0.142736104	0.764680993
0.138642143	0.744582949	0.182077623	0.238539509	1.095968836
0.106505546	0.409290358	0.226362106	0.15996066	0.436589764
0.22046371	2.42499487	0.15987732	0.144568399	0.807611691
0.240564677	0.286285954	0.171515999	0.132199639	0.619526229
0.133475396	2.04033135	0.174362195	0.156179531	0.535687635
0.05573402	1.582360468	0.248271183	0.210333405	0.390267492
0.093606397	0.988312933	0.229115865	0.170156369	0.355422604
0.247984247	1.868866613	0.125993954	0.142645618	0.701661361
0.299026724	0.669487211	0.181193174	0.145467156	0.584329764
0.225804977	2.064215293	0.180230377	0.113924924	0.667528481
0.277257127	2.508698959	0.148027717	0.156055781	0.726067424
0.27811861	1.895008092	0.13238915	0.198407468	0.810296209

Table S2. RPPA Protein expression data of 15 Primary Tumors

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Akt_pS473-R-V	Akt_pT308-R-V	AMPK_alpha-R-C	AMPK_pT172-R-V	Annexin_I-M-V
0.31003056	0.302812946	0.291281906	0.053121073	0.389425767
0.969437413	1.167966059	0.502351533	0.043244997	0.195364551
4.737343747	1.997538944	0.369263061	0.052993971	0.203649674
1.077975694	0.673409151	0.322341019	0.058883723	0.092766358
0.333383755	0.41566172	0.280977777	0.078477584	0.151493994
2.334392703	1.927695537	0.383734924	0.045545044	0.28305298
0.304924244	0.293197018	0.292576108	0.052160773	0.427500335
2.378643362	1.74674192	0.536706419	0.054542194	0.176156617
1.338429533	1.460515309	0.584797811	0.102850895	0.135726771
0.869685349	0.875091451	0.42212578	0.067972625	0.240311668
2.080903587	1.577674265	0.373851981	0.053520901	0.118368897
0.714267412	0.616554807	0.334404718	0.058670681	0.110057606
2.133729017	1.616772913	0.29452629	0.043548435	0.266397266
3.530440167	2.044770928	0.343376087	0.056306126	0.229663207
2.202547361	1.478941263	0.381898528	0.057027407	0.101659908

Table S2. RPPA Protein expression data of 15 Primary Tumors

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Annexin_VII-M-V	AR-R-V	ARHI-M-C	ATP5H-M-C	B-Raf-M-C
0.118485454	0.148378606	0.136976074	0.11101054	0.706229986
0.0810968	0.127008229	0.172402015	0.112631345	0.767929893
0.099976134	0.118221787	0.130573542	0.09073432	1.175604979
0.138437716	0.138444365	0.152396452	0.083874172	1.536987233
0.149932356	0.194531226	0.190364041	0.112744977	0.613020984
0.152404733	0.105829171	0.128751284	0.086775582	1.258438078
0.116441666	0.147927841	0.137226902	0.098864151	0.666631873
0.097538123	0.129371623	0.138431646	0.10498966	0.89653516
0.092480905	0.173814611	0.192183437	0.12143676	0.317766453
0.101770269	0.19763388	0.171626281	0.124768936	0.816485103
0.104894937	0.134635004	0.116610869	0.09825305	1.666086185
0.117495505	0.163855954	0.143263223	0.103155182	1.722336079
0.129537135	0.176863513	0.163117823	0.076571357	0.897976043
0.120987325	0.13583202	0.13367141	0.087501045	1.200162137
0.092035232	0.12534656	0.112575933	0.089631641	1.289237558

Table S2. RPPA Protein expression data of 15 Primary Tumors

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B-Raf_pS445-R-V	Bad_pS112-R-V	Bak-R-C	BAP1-M-V	Bax-R-V
0.27241515	0.239284857	0.195960204	0.105529841	0.649802455
0.238534876	0.355034723	0.322331461	0.120013946	0.748706505
0.320050879	0.262344174	0.183832234	0.127048747	0.555226839
0.330489303	0.307477515	0.211917705	0.101029027	0.750159102
0.203600598	0.241866549	0.264344111	0.076473291	0.62571274
0.406530556	0.346304236	0.205246327	0.082705378	0.769486292
0.26618348	0.233649634	0.189398983	0.108487784	0.623228214
0.292254616	0.311985697	0.198813738	0.082928105	0.488176416
0.10374178	0.225433498	0.284896143	0.081885717	1.095050937
0.294174328	0.332600777	0.262043121	0.077742368	0.677183918
0.352979691	0.245893341	0.171640703	0.163533446	0.321464637
0.319456178	0.190577381	0.205046498	0.139939886	0.443986882
0.29342374	0.264957881	0.242018224	0.081846648	0.51729071
0.314954354	0.285770134	0.189551601	0.11809304	0.539442936
0.384276788	0.243830437	0.155913862	0.214901672	0.386575737

Table S2. RPPA Protein expression data of 15 Primary Tumors

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Bcl-2-M-V	Bcl-xL-R-V	Beclin-G-C	beta-Catenin-R-V
0.063420669	0.687143191	0.105671322	0.99921853
0.025990315	0.62719382	0.061264068	1.265470723
0.059328012	0.480541709	0.116435044	0.861336078
0.044329088	0.552755452	0.118583025	0.936678366
0.034728944	0.615603822	0.072583718	1.125321071
0.070535461	0.75155567	0.039229653	1.786334441
0.062751841	0.674962893	0.111037783	0.94733698
0.047664085	0.454095857	0.107729812	1.065465614
0.046632049	0.767290605	0.100648123	0.733729518
0.045552293	0.567845529	0.088684978	0.858696913
0.05918114	0.347159634	0.128347521	1.095972083
0.058749451	0.376608313	0.116343692	0.542289791
0.045803305	0.322835986	0.051139963	0.471614816
0.065643998	0.39792023	0.124236899	0.832206131
0.04399423	0.500138171	0.111320545	0.724347534

Table S2. RPPA Protein expression data of 15 Primary Tumors

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beta-Catenin_pT41_S45-R-V	Bid-R-C	Bim-R-V	BRCA2-R-C
0.096312287	0.334928759	0.194480342	0.14115082
0.04963933	0.546464103	0.211615896	0.17552298
0.106121317	0.298534396	0.268740402	0.096649104
0.095896007	0.34186876	0.132066881	0.123528404
0.126748672	0.530710293	0.175067319	0.183968884
0.073022024	0.297060469	0.176314723	0.110992201
0.090170392	0.342342855	0.175608014	0.14318568
0.113744912	0.342258382	0.148066586	0.123996106
0.119747318	0.486834119	0.15513244	0.154851263
0.098254555	0.497878236	0.205140717	0.179641654
0.10102489	0.279251852	0.204985842	0.118433055
0.091361236	0.365802145	0.20449134	0.144178213
0.071705329	0.389616715	0.156314704	0.124953635
0.099122427	0.313136583	0.255555175	0.116923375
0.082320723	0.240563532	0.151366729	0.099114534

Table S2. RPPA Protein expression data of 15 Primary Tumors

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c-Jun_pS73-R-V	c-Kit-R-V	c-Met_pY1235-R-V	c-Myc-R-C	C-Raf-R-V
0.141635018	0.203644562	0.280173091	0.403844915	0.488037866
0.232658959	0.323256953	0.304038415	1.663672803	0.275379188
0.127384954	0.216009811	0.274084914	0.433872163	0.575440613
0.167051505	0.21381213	0.342712349	0.579989878	0.374229702
0.170583245	0.272221464	0.403394102	0.569517307	0.404700795
0.13027141	0.211043412	0.246289201	0.306583146	0.385544022
0.120476777	0.209289061	0.274428327	0.368386167	0.458013058
0.289222595	0.181112282	0.279113978	0.610063767	0.360004004
0.245024341	0.257400449	0.412925156	1.554924693	0.343142007
0.180509469	0.279851109	0.36279669	0.770075293	0.397929734
0.174336241	0.253198865	0.260124362	0.731494634	0.803769988
0.133982761	0.309968265	0.299328236	0.495432884	0.459208931
0.160720494	0.249470885	0.291137063	0.366082855	0.508599698
0.137883899	0.211638044	0.289801884	0.406548608	0.615932049
0.121008133	0.172430693	0.236881784	0.317318815	0.702338519

Table S2. RPPA Protein expression data of 15 Primary Tumors

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C-Raf_pS338-R-V	Caspase-7_cleavedD198-R-C	Caveolin-1-R-V	CD29-M-V
0.394188619	0.107352351	0.104222048	0.071936541
0.450560717	0.139454714	0.605192004	0.077150418
0.458446798	0.078300019	0.097196329	0.060604356
0.459532292	0.108253165	0.08917841	0.060159659
0.560292263	0.147313071	0.241123738	0.079426186
0.388011499	0.078803524	0.085860057	0.047574527
0.373309896	0.092375648	0.085909081	0.07114394
0.456575306	0.19497889	0.540126781	0.067596273
0.578608721	0.1718457	4.523334775	0.09822067
0.530731625	0.127722325	0.292349232	0.066042418
0.426184925	0.078429621	0.137920908	0.064676614
0.400279056	0.092194081	0.085399904	0.056112701
0.497014578	0.108392585	0.109441577	0.064447087
0.493516002	0.087029297	0.091844389	0.072892169
0.385197005	0.071233871	0.119171211	0.052357547

Table S2. RPPA Protein expression data of 15 Primary Tumors

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CD31-M-V	CD49b-M-V	CDK1-R-V	CDKN2A_p16INK4a-R-V	Chk1-M-C
0.065771885	0.042214448	0.221720425	0.065719197	0.193345893
0.036221845	0.029945368	0.117929873	0.397702029	0.187602183
0.052877957	0.040548716	0.271899016	0.075007974	0.265014435
0.05943109	0.044308111	0.181135681	0.086735071	0.109945306
0.086237064	0.041299372	0.204345966	0.119093552	0.107100949
0.028321627	0.016192218	0.4179867	0.075527356	0.182740454
0.063163762	0.041193796	0.207396619	0.064281415	0.157911229
0.047894084	0.030337483	0.188583081	0.399204593	0.1790222
0.072858307	0.04064365	0.279088054	0.114600529	0.128001286
0.057431471	0.036556393	0.218432828	0.082738469	0.120095317
0.052430079	0.036808417	0.252548512	0.065959527	0.27411056
0.056056701	0.032892803	0.211026083	0.394826001	0.325147979
0.04659994	0.03538095	0.203632209	0.276964896	0.299951156
0.061509259	0.045091184	0.259485188	0.069873856	0.283536693
0.044118933	0.030907457	0.182743132	0.072529719	0.402786811

Table S2. RPPA Protein expression data of 15 Primary Tumors

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Chk1_pS345-R-C	Chk2-M-V	Chk2_pT68-R-C	cIAP-R-C	Claudin-7-R-V
0.159212344	0.234654025	0.097131247	0.460047646	0.112669073
0.118852387	0.181764547	0.136449385	0.384855136	0.230133563
0.177605453	0.205442862	0.097537728	0.609905017	0.122508867
0.167935954	0.215973275	0.105026059	0.674418759	0.124640807
0.163178826	0.154206063	0.138578998	0.411026039	0.156784253
0.147727936	0.171097709	0.107528428	0.523296588	0.107346066
0.150140053	0.228363675	0.097078067	0.466461259	0.109580959
0.165702735	0.187222692	0.097690132	0.452268974	0.126664729
0.112468251	0.104288521	0.125199897	0.46293323	0.177079191
0.141920216	0.194917946	0.144880297	0.495094991	0.142099372
0.171095465	0.189191277	0.110400397	0.587230938	0.100686541
0.149232749	0.162702147	0.116359367	0.521611472	0.111027445
0.166877549	0.250166392	0.162670329	0.392095974	0.144674233
0.137701153	0.19257705	0.097161429	0.629493891	0.106988202
0.17166528	0.248039521	0.077162274	0.844969218	0.094741177

Table S2. RPPA Protein expression data of 15 Primary Tumors

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Collagen_VI-R-V	Complex_II_Subunit 30-M-V	Cox 2-R-C	Cox_IV-M-C
0.632127367	0.831160582	0.05250951	0.132154607
1.336801978	1.305574189	0.090112835	0.112906053
0.601895754	0.846242397	0.064623185	0.128973489
0.501039892	0.522288177	0.068109292	0.143859288
1.015490599	1.326393584	0.094586474	0.155373802
0.7514122	0.986169774	0.056899201	0.112354591
0.636946619	0.778559961	0.049137426	0.128630982
0.874562536	1.108756119	0.084532766	0.146313052
0.909178149	1.444201392	0.117853035	0.164781973
0.906005781	1.385987189	0.405611063	0.143348779
0.512165504	0.900349595	0.105499655	0.114523344
0.715339946	1.265799811	0.084286932	0.143095755
0.811043446	0.946544885	0.166879618	0.11954611
0.57521323	0.889546463	0.076701077	0.134275978
0.393097268	0.760036769	0.070910453	0.098521106

Table S2. RPPA Protein expression data of 15 Primary Tumors

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CRM1-R-E	Cyclin_B1-R-V	Cyclin_D1-R-V	Cyclin_E1-M-V	Cyclophilin_F-M-V
1.102340125	0.125519449	0.501181225	0.220695435	1.355463907
1.180914008	0.239222882	1.126446409	0.20379335	1.336769122
0.960675622	0.163489716	0.503850922	0.194629501	1.984884426
0.967929546	0.103373825	0.414112254	0.268320604	1.207591583
0.560335316	0.116699091	0.828113708	0.147879503	0.796142046
0.40409344	0.134395427	0.608606464	0.154336879	1.327030802
0.996834627	0.134991574	0.535299451	0.211265429	1.519002397
0.845346918	0.259048141	0.63876885	0.282341619	1.177563071
1.173654043	0.139472469	0.777475351	0.216844732	0.353343401
0.702571088	0.12663884	0.716086	0.124926199	1.064256469
1.79502929	0.205874806	0.422487164	0.149715661	1.617014327
1.556310146	0.287999954	0.574582824	0.28708458	1.299648629
0.572812908	0.316872084	0.673880826	0.267489792	1.114979802
1.023562148	0.171294534	0.470561882	0.192085633	2.23833514
1.342311663	0.343248497	0.31724418	0.244710026	1.411266489

Table S2. RPPA Protein expression data of 15 Primary Tumors

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DJ-1-R-V	Dvl3-R-V	E-Cadherin-R-V	E2F1-M-V	eEF2-R-C
0.611258608	0.185557798	0.037202071	0.06722251	0.540892869
0.914730586	0.122201512	0.071822759	0.054641081	0.344886673
0.646063992	0.311473393	0.032666237	0.057824598	0.498768634
0.870581668	0.251466173	0.02268762	0.068445596	0.43637709
0.629422569	0.156321464	0.044036488	0.064908152	0.319811214
1.095422793	0.202199055	0.061848982	0.057515992	0.579401753
0.620455765	0.17793668	0.038932535	0.069920543	0.687953314
0.702983051	0.157159541	0.031786308	0.044732359	0.456050258
1.223081819	0.088314128	0.04900479	0.057402953	0.372064183
0.583832872	0.12953329	0.035795316	0.072088873	0.310077121
0.596571299	0.434969061	0.07458444	0.057792093	0.45991373
0.803382493	0.432129067	0.025759102	0.070317122	0.381873378
0.742226603	0.315822508	0.039336818	0.100200696	0.512935411
0.727073929	0.28801114	0.030646488	0.0666636	0.430186099
0.790106309	0.373614605	0.033419409	0.057573365	0.466499726

Table S2. RPPA Protein expression data of 15 Primary Tumors

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eEF2K-R-V	EGFR-R-V	EGFR_pY1068-R-C	EGFR_pY1173-R-V	eIF4E-R-V
0.257783045	2.768145474	3.085647695	2.179906541	0.39235514
0.151419732	0.62642907	1.208457246	1.051447633	0.183578613
0.189710571	0.535142498	0.304830571	0.466963872	0.362136188
0.200398245	0.282004678	0.054340448	0.453092714	0.355738779
0.099008277	1.478190335	1.752424159	1.333465289	0.286123824
0.168053039	1.775982293	18.37605653	7.964019655	0.489442573
0.257048634	3.295006425	3.343879991	2.252928079	0.393674493
0.144588032	0.339458684	0.276513199	0.484064325	0.211413523
0.122058461	0.283306285	0.272792852	0.620201475	0.119312713
0.092878752	0.316806268	0.146498703	0.537100586	0.201613858
0.274877175	0.485660671	0.352407598	0.431478718	0.300742593
0.229672225	0.909222107	0.351077296	0.540996414	0.376962935
0.220306616	0.185531362	0.096729668	0.41114072	0.287974569
0.185785648	0.549957669	0.307008722	0.465148102	0.355961044
0.310295001	0.379098741	0.088761316	0.28336328	0.366921852

Table S2. RPPA Protein expression data of 15 Primary Tumors

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eIF4G-R-C	ER-alpha-R-V	ER-alpha_pS118-R-V	ETS-1-R-V	FAK -R-E
0.180403406	0.059232145	0.233709548	0.196364424	0.387521478
0.147950209	0.061157309	0.195339996	0.164466824	0.275075701
0.591152347	0.049515072	0.241881685	0.171271878	0.515283241
0.445260879	0.050670262	0.26263296	0.134292931	0.536342814
0.127375005	0.058096575	0.271984212	0.23078381	0.360353327
0.16785877	0.036594392	0.27554801	0.135404453	0.598561238
0.167033799	0.059109512	0.211683523	0.23359049	0.383670472
0.249658031	0.050273694	0.190501937	0.180043049	0.392641883
0.109873938	0.057450206	0.251044457	0.157037407	0.472422039
0.111370128	0.070385688	0.247938786	0.160046791	0.420464071
0.533442465	0.049855772	0.190230268	0.129525803	0.624299769
0.573821466	0.062173814	0.262261287	0.146486377	0.542505492
0.159650763	0.058736863	0.182671818	0.135409559	0.486227392
0.595461708	0.053190159	0.237447193	0.116530079	0.521884784
0.860513691	0.040632708	0.227670069	0.122711511	0.988727715

Table S2. RPPA Protein expression data of 15 Primary Tumors

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FAK_pY397-R-V	FASN-R-V	Fibronectin-R-V	FoxM1-R-V	FOXO3a-R-C
0.044481969	0.085153697	0.032414623	0.053427392	0.03112847
0.040239968	0.057436732	0.091782002	0.10834097	0.038853328
0.045436161	0.066236181	0.04849988	0.056308681	0.03200837
0.03050497	0.113030884	0.053421605	0.04706216	0.031575414
0.039473483	0.039229226	0.072117734	0.061851203	0.031751486
0.069137047	0.051497904	0.032123621	0.053079331	0.039603263
0.042701387	0.085026954	0.030898005	0.055439715	0.03143692
0.045997744	0.030631734	0.045417295	0.039097507	0.032298308
0.03996971	0.039189179	0.077881276	0.073921227	0.032816545
0.06771877	0.043304628	0.064511528	0.059071315	0.032140886
0.079430801	0.061028365	0.034918723	0.066192909	0.030664821
0.051110881	0.064196265	0.044755682	0.049925403	0.035009124
0.072515301	0.064093091	0.039392717	0.058371496	0.032565845
0.042149492	0.069110517	0.056758389	0.049991847	0.032439581
0.037887404	0.069746379	0.030031969	0.102034278	0.02881219

Table S2. RPPA Protein expression data of 15 Primary Tumors

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FOXO3a_pS318_S321-R-C	G6PD-M-V	Gab2-R-V	GAPDH-M-C	GATA3-M-V
0.07607672	0.214033421	0.503101589	0.448587848	0.060572504
0.067029502	0.157156723	0.388011043	1.312419298	0.053498418
0.071317802	0.16043843	0.972924841	0.582217172	0.036839314
0.076481122	0.244776517	0.850775019	0.668721652	0.039426907
0.068714396	0.18518568	0.326184017	0.652541174	0.034181279
0.088996674	0.185137651	1.016705022	1.209283967	0.047576308
0.070779813	0.218683074	0.488325875	0.470677918	0.044186457
0.071525654	0.237152	0.240225885	1.043985579	0.043729213
0.04844666	0.204406359	0.137604354	0.476601275	0.044432585
0.062210587	0.18363533	0.361525603	0.617717209	0.038776062
0.060672059	0.136065019	0.721887099	0.340788598	0.043994204
0.061999389	0.173875857	0.595763083	0.26839348	0.044477671
0.07554323	0.175458724	0.502277184	0.509397723	0.05196294
0.073266172	0.137645493	0.952750661	0.333174265	0.042768666
0.08587461	0.159523627	1.179295945	0.689058605	0.053631989

GCN5L2-R-V	GPBB-R-V	GSK3-alpha-beta-M-V	GSK3-alpha-beta_pS21_S9-R-V
0.037717541	1.139621153	0.953474869	0.330978004
0.078443796	0.325163329	0.738886677	0.779354382
0.034038257	0.541105535	1.323578431	1.113040807
0.036156743	0.823740744	1.098280893	0.391205697
0.044783088	0.624993883	0.785186802	0.377669137
0.038431853	0.384302813	1.270001189	1.487251715
0.033712491	1.216562093	0.93615114	0.331062356
0.028133725	0.532363591	0.530473069	0.705580603
0.053522334	0.633741407	0.562793594	0.33431583
0.039095135	0.406086773	0.86651337	0.596413667
0.044216994	0.384982206	1.22074172	1.010271979
0.039416232	0.683545734	1.192164768	0.418633555
0.038960276	0.172961731	0.948774697	0.782887237
0.048263751	0.517408078	1.27689034	1.076268156
0.060233881	0.646887214	1.235814355	0.675199877

Table S2. RPPA Protein expression data of 15 Primary Tumors

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GSK3_pS9-R-V	GYS-R-V	GYS_pS641-R-V	HER2-M-V	HER2_pY1248-R-C
0.090686754	1.285282916	0.193448987	0.417814023	0.555209667
0.64592058	1.007184546	0.262426194	0.267478395	0.298394556
0.913103269	1.233572447	0.2075021	0.342837407	0.065936221
0.099706814	2.052920089	0.304058307	0.292900992	0.029606584
0.17860807	1.306072257	0.209337093	0.579344246	0.403450245
1.171521319	0.46566545	0.109483697	0.437431423	4.891295283
0.098281959	1.291233383	0.199647318	0.582118046	0.54115746
0.551951092	1.015907362	0.239558384	0.451923998	0.072891131
0.219080236	1.966348452	0.330555557	0.295373587	0.081155519
0.447382915	0.854156361	0.192595276	0.23767895	0.045577086
1.005211063	1.059981893	0.192707066	0.202211461	0.088176628
0.282889788	0.828938129	0.088651346	0.175347482	0.08365158
0.681669397	0.374477274	0.083726878	0.345504681	0.043263673
0.784973333	1.536626199	0.236332131	0.266499739	0.068961365
0.434614028	1.093080255	0.185674463	0.333045497	0.028744785

Table S2. RPPA Protein expression data of 15 Primary Tumors

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HER3-R-V	HER3_pY1289-R-C	Heregulin-R-V	Histone H3-R-V	IGF1R-R-V
0.303317979	0.311978273	0.062418202	0.184225657	0.26279259
0.185044592	0.264909455	0.065987758	0.14027075	0.159947031
0.518181206	0.368074278	0.057744679	0.1614516	0.252429162
0.265408189	0.332847436	0.057848125	0.108706893	0.150755322
0.311428177	0.416188018	0.05185368	0.413310358	0.313191265
0.242091014	0.298115747	0.0456403	0.087924251	0.149667777
0.318834017	0.309166627	0.052637152	0.183066001	0.247545085
0.220979891	0.299716375	0.052248913	0.099955275	0.150711929
0.271948864	0.419406686	0.049286815	0.168787436	0.109132129
0.273494576	0.392044533	0.061882109	0.092095698	0.155719846
0.678206795	0.380633049	0.065134384	0.15939271	0.279059275
0.548569425	0.333284103	0.065297332	0.161088563	0.233968443
0.612794214	0.31721802	0.045658591	0.157770001	0.155838457
0.569044	0.378195206	0.060744726	0.121464323	0.229909568
0.257929282	0.313646795	0.061951374	0.135465826	0.255508317

Table S2. RPPA Protein expression data of 15 Primary Tumors

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IGFBP2-R-V	INPP4B-R-V	IRS1-R-V	JNK_pT183_Y185-R-V	JNK2-R-C
1.320587114	0.061524336	0.263697113	0.100375208	0.259602824
4.914764206	0.039025647	0.265102829	0.157615292	0.087178958
2.908774046	0.045901843	0.245428142	0.102601023	0.241096539
0.564062043	0.046543555	0.275812332	0.113856336	0.277428293
2.486093331	0.047748512	0.32163854	0.162745818	0.18880312
4.305646654	0.024200254	0.210599794	0.157777159	0.312449453
1.312006924	0.054159727	0.277694165	0.097422938	0.252116792
3.401369581	0.032570011	0.278612125	0.212428731	0.205388245
2.647538516	0.050626629	0.336897827	0.111049001	0.102590693
1.00551951	0.036812252	0.313548785	0.152380243	0.163074969
2.647710537	0.044341601	0.225654167	0.102477511	0.196457894
1.395751764	0.048739259	0.262559124	0.095136525	0.205619502
7.717722387	0.02869463	0.230759308	0.121815699	0.244425918
2.976910833	0.04996762	0.252268067	0.100376556	0.173716949
2.960070735	0.049403315	0.188778484	0.070848495	0.177596301

Table S2. RPPA Protein expression data of 15 Primary Tumors

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Lck-R-V	MAPK_pT202_Y204-R-V	Mcl-1-R-V	MDM2_pS166-R-V
0.17319807	0.170759593	0.034681662	0.036830782
0.227042891	0.586907669	0.02737608	0.043582003
0.171293587	0.270360139	0.025675554	0.059865444
0.201373268	0.365099081	0.030018873	0.027293154
0.263518022	0.217684738	0.014646364	0.027500202
0.194484875	0.655909501	0.035292866	0.035067383
0.187641813	0.175963965	0.033537816	0.037321044
0.165565686	0.829532007	0.023050687	0.046999839
0.275981617	0.291413532	0.022431676	0.029736074
0.229369876	0.573236684	0.018334482	0.029010831
0.103247463	0.289507527	0.02338715	0.077846379
0.151385107	0.083950441	0.024227738	0.037139428
0.205147303	0.265074898	0.025715979	0.045150928
0.125975041	0.293670662	0.026708087	0.060365438
0.098335671	0.258790662	0.02621659	0.0568889

Table S2. RPPA Protein expression data of 15 Primary Tumors

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MEK1-R-V	MEK1_pS217_S221-R-V	MEK2-R-V	MIG-6-M-V	MSH2-M-V
0.124741798	0.048607436	0.178629237	0.335248548	0.188411212
0.06372017	0.054233178	0.074982504	0.320554116	0.133704546
0.108184332	0.048618671	0.145575831	0.346145389	0.167868576
0.0647615	0.050341422	0.194834249	0.371889452	0.151129424
0.172372633	0.063150011	0.131460954	0.36390964	0.084572351
0.184124098	0.056306265	0.19190382	0.290721563	0.138298472
0.128287281	0.049616418	0.184332983	0.349312669	0.173476374
0.074652875	0.081691618	0.136299546	0.43525427	0.108247185
0.0362199	0.049277696	0.206161791	0.426545469	0.091226837
0.111934917	0.073460547	0.168043331	0.40281648	0.096318673
0.103024253	0.05314974	0.129400666	0.28875804	0.214473058
0.150078813	0.063648947	0.150674796	0.330820361	0.277745985
0.117580445	0.067021074	0.112398093	0.306053771	0.237003199
0.11339609	0.053945567	0.148588117	0.330896395	0.204026848
0.121062775	0.051558137	0.136429816	0.331543189	0.293038063

Table S2. RPPA Protein expression data of 15 Primary Tumors

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MSH6-R-C	mTOR-R-V	mTOR_pS2448-R-C	MYH11-R-V
0.064540277	0.142111812	0.012932013	0.015981372
0.067451447	0.09197975	0.015996607	0.030348914
0.113016977	0.231133822	0.02166071	0.018326831
0.040039216	0.056203762	0.014175297	0.024854377
0.038507622	0.098200142	0.016926777	0.030866551
0.064311526	0.045063502	0.007837194	0.014812175
0.059973136	0.128809958	0.012208399	0.016042798
0.045884645	0.112510408	0.021557647	0.107205167
0.046022236	0.062757938	0.010914512	0.01968823
0.033616724	0.074418972	0.014750263	0.034989188
0.125921941	0.304093951	0.026426624	0.024904815
0.163003762	0.260204451	0.00940385	0.041984236
0.109876872	0.045683109	0.007944952	0.041146133
0.098383622	0.203130381	0.021984686	0.021005358
0.162788871	0.299934229	0.020608042	0.05590175

Table S2. RPPA Protein expression data of 15 Primary Tumors

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Myosin IIa pS1943-R-V	N-Cadherin-R-V	N-Ras-M-V	Napsin-R-C
0.073305007	0.086398582	0.034039032	0.055104136
0.104535792	0.142748183	0.016226872	0.049045674
0.031894327	0.05951282	0.03333486	0.04926371
0.068171234	0.056460007	0.036897226	0.055737451
0.05967885	0.10406857	0.028005826	0.05932946
0.051215065	0.099756613	0.013198701	0.038610432
0.066046023	0.077753008	0.034318329	0.05552999
0.172034502	0.081878754	0.035961801	0.04672312
0.071324947	0.099220859	0.043857545	0.058807872
0.063428171	0.084169382	0.035671425	0.060019193
0.030388864	0.080594279	0.032788265	0.047899154
0.037491572	0.060032645	0.037404553	0.06070542
0.051919254	0.066172326	0.024489686	0.044028215
0.035652965	0.064180783	0.033345024	0.048899631
0.050993746	0.05278773	0.027889611	0.039069982

Table S2. RPPA Protein expression data of 15 Primary Tumors

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NDRG1_pT346-R-V	NF-kB-p65_pS536-R-C	NF2-R-C	Notch1-R-V	p21-R-V
0.347953079	0.072666654	0.566320856	0.164216444	0.084703485
1.219253299	0.110462089	0.28907373	0.093853411	0.152924077
0.927076607	0.099392846	0.833876115	0.249294242	0.115573405
0.318582868	0.062437321	0.958599238	0.164698281	0.072685454
0.72962039	0.094066846	0.350167756	0.13271329	0.094159158
0.58732976	0.074725447	0.565339358	0.155456804	0.091488823
0.34436193	0.065445939	0.589235133	0.149649114	0.072829712
0.54844445	0.093937939	0.594555398	0.109183721	0.183049508
0.298959735	0.07536847	0.341488517	0.119963366	0.071436766
0.468296009	0.057789589	0.485145265	0.121360527	0.174664586
1.202603539	0.19829955	0.614751176	0.189283167	0.110280358
0.432274706	0.070754591	0.489977608	0.240796007	0.043241707
1.966151044	0.079331915	0.429317612	0.164398779	0.101003656
1.057690156	0.089939848	0.654305116	0.260282249	0.124428182
0.235059731	0.159807859	0.655306758	0.217871902	0.185645428

Table S2. RPPA Protein expression data of 15 Primary Tumors

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p27-R-V	p27_pT157-R-C	p27_pT198-R-V	p38 alpha MAPK-M-V	p38_MAPK-R-V
0.151506932	0.099822653	0.111939461	0.25465794	0.341181844
0.248864581	0.086435139	0.15279925	0.140386561	0.160925908
0.148061572	0.092251038	0.117640449	0.268782679	0.263157023
0.173246009	0.091677416	0.131774693	0.418890157	0.49192934
0.15621369	0.088784339	0.133860984	0.207204791	0.145532725
0.190043995	0.150768914	0.11379646	0.208128996	0.283479622
0.145709339	0.101823885	0.097983623	0.252791065	0.31221446
0.155261632	0.071581331	0.146169745	0.300991279	0.209199605
0.150639378	0.06433724	0.254133173	0.204496547	0.109800019
0.161916873	0.09026615	0.1551661	0.274379336	0.151881535
0.180517558	0.092971941	0.129747698	0.238419325	0.249014331
0.165484728	0.092072713	0.106969602	0.277106424	0.305535511
0.153821709	0.073230766	0.123633725	0.273225319	0.351810371
0.156580219	0.096206145	0.111334872	0.272918334	0.26768392
0.140316219	0.095900474	0.094954902	0.268932857	0.304767869

Table S2. RPPA Protein expression data of 15 Primary Tumors

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p38_pT180_Y182-R-V	p53-R-C	p70S6K-R-V	p70S6K_pT389-R-V	p90RSK-R-C
0.044627166	0.019194504	0.026775595	0.026541943	0.05808395
0.032298133	0.012856716	0.020090133	0.025852649	0.037270486
0.074989659	0.019947201	0.0255763	0.026711993	0.048540904
0.077187068	0.029099791	0.027858815	0.01629589	0.049020308
0.063491472	0.031731586	0.020661083	0.035789621	0.036829244
0.134249023	0.011431548	0.031554679	0.031029558	0.050541253
0.045110945	0.02123582	0.023609325	0.024534238	0.057247682
0.089724112	0.022445533	0.021986703	0.019375915	0.028082363
0.034787006	0.036169439	0.013641582	0.017639306	0.025429715
0.069885302	0.034887708	0.023992763	0.03227569	0.034377059
0.066330638	0.022155907	0.029749427	0.023861092	0.059940524
0.047815578	0.019280106	0.028322913	0.038169121	0.050683361
0.07521621	0.024721724	0.033680292	0.055095968	0.046909093
0.077613656	0.019457035	0.026635003	0.028099855	0.052394403
0.092523944	0.018489797	0.030119332	0.022156922	0.041157683

Table S2. RPPA Protein expression data of 15 Primary Tumors

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PAI-1-M-V	PAK4-R-E	Paxillin-R-C	PCNA-M-C	PDCD1L1-G-C
1.86490433	0.106301483	0.057866304	0.28106685	0.155855054
1.91238007	0.069108949	0.107309563	0.213156673	0.057865456
0.691775213	0.12062065	0.075541975	0.165856226	0.086025078
0.808256049	0.114201818	0.181784716	0.241290385	0.137490608
1.606762719	0.083834952	0.061770408	0.185901613	0.083824781
0.486050545	0.056767916	0.158262634	0.244057568	0.099612469
1.718223492	0.100742069	0.054759439	0.292865776	0.153479061
0.912279141	0.116847758	0.10754931	0.32309116	0.141900494
2.867985318	0.116989738	0.108348584	0.207470373	0.224589294
1.305293687	0.082620601	0.066296426	0.145695402	0.102951004
0.434888618	0.105524898	0.064080961	0.17576134	0.08282063
0.582968308	0.124260242	0.051649198	0.190772756	0.098105397
0.808009353	0.073192762	0.037830922	0.238466172	0.068963568
0.781650755	0.134025918	0.069826798	0.163467245	0.092178604
0.345200128	0.12108907	0.083691193	0.227226537	0.081885782

Table S2. RPPA Protein expression data of 15 Primary Tumors

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PDCD4-R-C	PDGFR_beta-R-V1000182	PDK1-R-V	PDK1_pS241-R-V
0.030508168	0.080322663	0.081017508	0.178364688
0.090971244	0.022436139	0.045017322	0.089335961
0.039124573	0.091594178	0.085229132	0.196917839
0.028736309	0.063232187	0.085125265	0.23226045
0.051934932	0.047713964	0.056306809	0.1339834
0.044569406	0.055654427	0.074086833	0.203798281
0.028084862	0.078164029	0.086060143	0.178857608
0.049555061	0.062560206	0.080248548	0.164562794
0.062069833	0.045829651	0.049998661	0.09816454
0.045338615	0.024727973	0.058009227	0.140573693
0.054871091	0.053696853	0.073878549	0.162043796
0.03288572	0.130856203	0.085800512	0.178567183
0.071051824	0.169145083	0.052326165	0.09148601
0.038750058	0.092812388	0.08916466	0.199377482
0.051488257	0.09333473	0.092431677	0.224992972

Table S2. RPPA Protein expression data of 15 Primary Tumors

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PEA15-R-V	PEA15_pS116-R-V	PI3K-p110-alpha-R-C	PI3K-p85-R-V	PKC-alpha-M-V
3.061785121	0.934125614	0.080258922	0.315165297	1.293378105
2.789814196	1.797081959	0.038920398	0.125580799	0.555238597
3.886391612	0.795994462	0.06498866	0.247861883	1.030263991
5.913297043	0.84478193	0.063513543	0.221088503	0.859786788
2.351353735	1.27096241	0.068961364	0.200613891	0.685435246
6.045953188	1.431955044	0.053934225	0.258788533	1.294299096
3.196495065	1.634955885	0.076928563	0.324747854	1.303604298
2.086983271	1.119011198	0.062285685	0.253622227	0.359668274
1.481969697	1.152674068	0.026555453	0.113498966	0.231508054
1.652747189	1.054317529	0.053824304	0.147130849	0.373417977
3.13017625	0.738881825	0.078295113	0.322253022	0.624189428
4.293061654	0.789819887	0.094962175	0.448612702	0.662078149
1.02180506	0.853362189	0.072696965	0.244666198	0.389344404
3.622746761	0.833688285	0.071250123	0.283862359	0.881226634
3.682982072	0.570796601	0.070661186	0.333917342	0.629300143

Table S2. RPPA Protein expression data of 15 Primary Tumors

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PKC-alpha_pS657-R-C	PKC-delta_pS664-R-V	PKC-pan_Betall_pS660-R-V
0.789899584	0.301126461	0.943865092
0.414792411	0.115294028	0.517053863
0.719810438	0.301529181	0.981296859
0.601576128	0.267402869	0.688942496
0.508280068	0.271170456	0.668170313
0.781313653	0.370343935	1.576507276
0.734476104	0.313093564	0.873135221
0.275454972	0.178678247	0.588705462
0.142461746	0.10050769	0.206868806
0.297134699	0.171621367	0.55167237
0.468104579	0.233292078	0.78380851
0.497591012	0.254431393	0.714300258
0.27098168	0.146570343	0.489106689
0.693665523	0.302529596	0.874197996
0.416795062	0.249524741	0.627383772

Table S2. RPPA Protein expression data of 15 Primary Tumors

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PMS2-R-V1000192	Porin-M-V	PR-R-V	PRAS40_pT246-R-V	PREX1-R-V
0.725878918	0.108100329	0.161241909	0.181684091	1.31887469
0.347784266	0.081343468	0.103794541	0.413590467	0.080585287
1.04498082	0.14557131	0.16210247	0.270796161	0.877748966
0.482350162	0.16923474	0.18915197	0.193559022	0.661125588
0.555641934	0.114698729	0.168454046	0.267377984	0.564924145
0.752427042	0.082256284	0.146101898	0.358880677	1.101100855
0.783356663	0.113393291	0.159999444	0.180591981	1.200241882
0.75871736	0.152671673	0.148143026	0.325896054	0.135829957
0.249900102	0.209060362	0.160912434	0.214706035	0.119496045
0.381999035	0.154407176	0.197899678	0.252558056	0.201728167
1.504810648	0.139744441	0.143184946	0.306525988	0.771335174
1.677357507	0.133658268	0.176550147	0.203101183	0.475346255
0.708490966	0.072951382	0.155187415	0.381749774	0.200889947
0.975150479	0.154247688	0.164915874	0.277130215	0.918799348
1.676893388	0.143391438	0.137748267	0.215017594	0.685249369

Table S2. RPPA Protein expression data of 15 Primary Tumors

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PTEN-R-V	Rab11-R-E	Rab25-R-V	Rad50-M-V	Rad51-R-V
0.610123565	0.057634743	0.039504886	0.165780331	0.07981556
0.113912512	0.105621311	0.033730438	0.180982065	0.107108455
0.448619223	0.046807716	0.034730811	0.214632253	0.047536289
0.506113155	0.06152445	0.035179536	0.141593794	0.0496997
0.391489939	0.076827406	0.036633714	0.152977288	0.118668407
0.738620001	0.053419424	0.01672529	0.088668274	0.033961128
0.586722304	0.057635649	0.040656648	0.176568283	0.077291729
0.088160696	0.056875349	0.02532999	0.212133355	0.069538519
0.077722699	0.081680862	0.025952463	0.149144314	0.091684794
0.232983487	0.083748465	0.046813513	0.168598359	0.115563807
0.299232655	0.048285807	0.03157976	0.237500901	0.058363235
0.453225272	0.059656118	0.039118878	0.216798191	0.091365601
0.14727468	0.069464185	0.021014318	0.136340831	0.071181379
0.40778092	0.049162225	0.038254324	0.216603166	0.050191842
0.500092953	0.036405292	0.034032857	0.255161862	0.046042434

Table S2. RPPA Protein expression data of 15 Primary Tumors

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Raptor-R-V	Rb_pS807_S811-R-V	RBM15-R-V	Rictor-R-C	Rictor_pT1135-R-V
0.76617323	0.173554221	0.111238239	0.109094645	0.355884424
0.512437765	0.369946873	0.184947812	0.19084115	0.377171328
0.924471929	0.553655677	0.147332208	0.21094723	0.398021403
0.559412034	0.22422575	0.184499146	0.130584366	0.411478554
0.701628631	0.175739915	0.105585585	0.133811983	0.449967003
0.444674368	0.439685341	0.100450597	0.101608063	0.325362094
0.713786914	0.164577411	0.105285647	0.108545342	0.379135329
0.562605641	0.321740516	0.094801008	0.152198995	0.380714731
0.435612029	0.146508899	0.126190204	0.130211239	0.444891082
0.628487404	0.18768096	0.092175035	0.103258775	0.47947001
1.023479641	0.616400615	0.11030694	0.352329917	0.394996892
0.82559468	0.150677321	0.094219592	0.11937963	0.399232469
0.446345651	0.26680631	0.112842949	0.127476772	0.424649426
0.871621787	0.567960754	0.129545775	0.209161395	0.388144866
1.242920778	0.65779699	0.232981886	0.230705492	0.33229733

Table S2. RPPA Protein expression data of 15 Primary Tumors

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S6_pS235_S236-R-V	S6_pS240_S244-R-V	SCD1-M-V	SDHA-M-V	SF2-M-V
0.037766417	0.030911527	0.085101935	0.505217648	0.201571984
0.081846394	0.078871788	0.063389164	0.79557037	0.166473671
0.032419902	0.025274419	0.081967871	0.574680568	0.181877829
0.032919371	0.024914291	0.081833401	0.227273451	0.205444938
0.04672561	0.045027426	0.059667827	0.917094652	0.139282946
0.040098882	0.038641538	0.057178276	0.580780618	0.121126989
0.035428855	0.031034989	0.071835819	0.541795496	0.187409661
0.110206184	0.091426416	0.068071791	0.723140804	0.246561779
0.055843933	0.053814354	0.079649949	0.665542917	0.124879674
0.044784163	0.039894303	0.075566604	0.828673359	0.206943389
0.041889546	0.037223409	0.07961911	0.635106223	0.176861977
0.02935406	0.028287223	0.070172252	0.787132062	0.146551994
0.040650227	0.039172845	0.057200971	0.697385186	0.128556062
0.031518346	0.027436841	0.085074186	0.598054013	0.190313371
0.040535335	0.034133848	0.079113763	0.570801721	0.22272353

Table S2. RPPA Protein expression data of 15 Primary Tumors

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Shc_pY317-R-V	Smad1-R-V	Smad3-R-V	Smad4-M-V	Src-M-V
0.066516708	0.312908807	0.383515473	0.18717999	0.425478945
0.046457937	0.113357758	0.663259197	0.106501012	0.326845249
0.087497698	0.303286027	0.567391266	0.172365695	0.491439654
0.063160636	0.396057935	0.511558555	0.162567165	0.648386533
0.070178732	0.233711936	0.552810702	0.168417704	0.388216262
0.065764574	0.256727668	0.471543732	0.182469913	0.3454925
0.070432435	0.307631178	0.40688822	0.186899183	0.462805357
0.065580696	0.266988618	0.413695354	0.173763399	0.349268959
0.086611418	0.212054532	0.60467194	0.144873652	0.738319934
0.069374694	0.244661719	0.53475793	0.185169081	0.392033475
0.050449277	0.281305468	0.392117986	0.188508051	0.700413082
0.05491864	0.296996392	0.411337049	0.169585926	0.575782021
0.035832406	0.197178201	0.397552382	0.203830601	0.544001416
0.084967693	0.313400506	0.46526297	0.189494345	0.742119612
0.047362037	0.280081228	0.920901847	0.223795117	0.502365954

Table S2. RPPA Protein expression data of 15 Primary Tumors

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Src_pY416-R-C	Src_pY527-R-V	STAT3_pY705-R-V	STAT5-alpha-R-V	Stathmin-R-V
0.975501746	0.410309834	0.280589578	0.491215316	0.388118163
0.795343877	0.552084658	0.126757065	0.211249724	0.673893716
1.430792687	0.806702477	0.200664301	0.555314562	0.425386574
0.171646162	0.4624522	0.116521184	0.400026005	0.445529962
0.622687089	0.405731065	0.215970286	0.26232959	0.49350542
5.749874927	1.469127179	0.349244913	0.283695058	0.394237993
0.930469992	0.424289744	0.273556923	0.474698314	0.38330946
0.912515585	0.426332776	0.205506877	0.32847439	0.400139828
0.444294615	0.571828993	0.12454582	0.144136043	0.694532469
0.367290938	0.505976188	0.135223397	0.245497119	0.572508626
2.230004771	1.254360911	0.244172029	0.437624844	0.435796548
0.794820799	0.238386994	0.200877329	0.596831777	0.532567957
0.836910591	0.825656859	0.229569599	0.644066042	0.559598686
1.457139546	0.777182794	0.197083904	0.585432603	0.460987211
0.159818317	0.201025531	0.135851767	0.590192643	0.448947683

Table S2. RPPA Protein expression data of 15 Primary Tumors

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Syk-M-V	TAZ-R-V	TFRC-R-V	TIGAR-R-V	Transglutaminase-M-V
0.530110024	0.390951596	1.599052301	0.770809512	0.321047235
0.151392377	0.417420579	1.770985437	0.52119665	0.221697041
0.925820679	0.345135367	0.498697054	1.377729776	0.281278846
0.999501617	0.665202471	0.335238783	1.060466242	0.366189622
0.323215838	0.450547955	0.6152999	0.624604095	0.257034393
0.39046943	0.458849345	0.982456725	0.841367491	0.209978163
0.508219799	0.433801888	1.478277937	0.792110888	0.338137636
0.256696319	0.570946233	0.898033134	0.501088398	0.270724463
0.194800913	0.708073285	0.365498044	0.636268686	0.322042369
0.811067668	0.563137238	0.297548137	0.599175204	0.313916367
0.730417621	0.330623773	0.686612177	0.565208815	0.265637296
0.824084559	0.37567257	0.320829097	0.624749718	0.280519307
0.611036448	0.390604106	0.624111306	0.547783745	0.23199209
1.061530539	0.38095275	0.329214225	0.865752205	0.276591609
0.332734491	0.305858062	0.863759172	0.82354134	0.275798654

Table S2. RPPA Protein expression data of 15 Primary Tumors

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TSC1-R-C	TTF1-R-V	Tuberin-R-V	Tuberin_pT1462-R-V	TYRO3-R-V
0.779295912	0.248235498	0.485760489	0.11692171	0.523795322
0.24489593	0.222711529	0.230874547	0.108315641	0.244004318
1.206911117	0.249480869	1.806909855	0.235556554	0.440980838
1.192407064	0.250243299	0.447612712	0.086284665	0.154450951
0.584760334	0.26098939	0.533546837	0.089728621	0.416528495
0.454202823	0.189497763	0.210345806	0.069738587	0.778426249
0.714783445	0.297243072	0.455385492	0.114337725	0.495748656
0.652191559	0.220083443	0.520441437	0.102660242	0.269833559
0.39674238	0.220166319	0.202213936	0.086492921	0.256403264
0.498030675	0.230410516	0.447997008	0.108565086	0.506628439
1.097060197	0.260798208	1.881702068	0.307954056	0.255148979
0.962928896	0.23203375	0.643331844	0.129655312	0.442784608
0.471539299	0.298418564	0.45885071	0.100308502	0.154152855
1.224682281	0.207173662	1.83674129	0.2340462	0.451664374
1.466536828	0.224586491	1.857464459	0.209802855	0.727504847

Table S2. RPPA Protein expression data of 15 Primary Tumors

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UBAC1-R-V	UGT1A-M-V	UQCRC2-M-C	VEGFR2-R-V	XRCC1-R-E
0.153987855	0.165070859	0.137579873	0.62663534	0.132713497
0.227088057	0.239784583	0.19420257	0.542125016	0.112482218
0.118210149	0.158182194	0.111226877	0.547911661	0.118382093
0.252162279	0.155001403	0.110377885	0.695165934	0.113283012
0.165405116	0.212007057	0.208974742	0.597531893	0.130779978
0.110175553	0.132076072	0.113661846	0.690182358	0.071764944
0.160751891	0.171419676	0.143348329	0.661964001	0.136892186
0.611403102	0.162908353	0.118180177	0.546442798	0.093336276
0.271644737	0.176746733	0.098884286	0.368687584	0.081856439
0.20084372	0.18594674	0.141246826	0.529235512	0.097825844
0.174787026	0.14277903	0.103231582	0.529754602	0.116078233
0.143096891	0.142383794	0.135339687	0.632502823	0.107186636
0.192535484	0.157835024	0.122220211	0.705307907	0.089138088
0.136810358	0.18285187	0.115033131	0.519536599	0.117092683
0.31833362	0.124489252	0.102641311	0.600794977	0.157537936

Table S2. RPPA Protein expression data of 15 Primary Tumors

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YAP-R-E	YAP_pS127-R-E	YB-1-R-V	YB-1_pS102-R-V
0.208517665	0.326144118	0.100285795	0.339782594
0.403974765	1.437447435	0.181530488	0.419649978
0.179640592	0.382554806	0.098631347	0.339485772
0.297937137	0.891438526	0.104802225	0.514831392
0.213993718	0.315774837	0.071982801	0.419333796
0.236035896	0.822465363	0.124405039	0.389108809
0.209723831	0.316458422	0.096425084	0.370499092
0.269097875	0.889605612	0.089129829	0.443365415
0.425314873	1.557267824	0.12612046	0.428468477
0.283394639	0.555854537	0.095168904	0.428617037
0.145143375	0.154127527	0.098128361	0.310853033
0.218469413	0.212049795	0.098328988	0.318794137
0.223649827	0.552153763	0.093813244	0.336751967
0.208442493	0.458792708	0.117968019	0.314293135
0.167897021	0.427428747	0.111897151	0.366343072