Supplementary Table1 Kras up-regulated surfaceome gene list

Accession	Gene	Description	AK10965	AK192	AK196	AK10965	AK192	AK196	Human[a]
			Ratio_KRAS ON/OFF			MSEvent			
O35598	Adam10	Disintegrin and metalloproteinase domain-containing protein 10	1.591	1.239	2.121	115	1126	544	Y
Q61072	Adam9	Disintegrin and metalloproteinase domain-containing protein 9	2.273	1.167	2.729	8	362	112	Y
E9Q3Q6	Alcam	CD166 antigen	2.291	1.008	2.303	507	2377	1497	Y
Q9JHZ2	Ankh	Progressive ankylosis protein	1.241	1.125	2.16	15	104	44	N
Q9CZ52	Antxr1	Anthrax toxin receptor 1	.	1.356	2.159	.	116	24	N
Q6DFX2	Antxr2	Anthrax toxin receptor 2	1.964	1.513	2.585	14	405	70	Y
P10107	Anxa1	Annexin A1	0.915	1.4	2.303	33	146	139	N
P97429	Anxa4	Annexin A4	0.604	1.826	3.649	41	95	119	N
P48036	Anxa5	Annexin A5	0.857	1.545	2.997	168	166	159	N
O35640	Anxa8	Annexin A8	0.864	1.699	1.788	12	18	37	N
Q3U128	Apcdd1	Protein APCDD1	.	1.852	1.824	.	32	2	N
P12023	App	Isoform APP695 of Amyloid beta A4 protein	1.433	.	1.443	3	.	12	Y
Q8VDN2	Atp1a1	Sodium/potassium-transporting ATPase subunit alpha-1	1.383	1.022	1.497	237	491	334	Y
P97370	Atp1b3	Sodium/potassium-transporting ATPase subunit beta-3	1.363	1.187	1.897	29	409	62	Y
Q6PE80	Axl	Axl protein	0.77	1.347	1.861	81	390	97	Y
P01887	B2m	Beta-2-microglobulin	1.477	1.159	1.513	17	31	59	N
A2AVX1	Bcas1	Breast carcinoma-amplified sequence 1 homolog	.	1.203	1.716	.	2	3	N
O35607	Bmpr2	Bone morphogenetic protein receptor type-2	.	1.405	2.522	.	13	82	N
O08532	Cacna2d1	Isoform 2C of Voltage-dependent calcium channel subunit alpha-2/delta-1	1.601	1.393	1.069	77	74	231	N
Q8R5M8	Cadm1	Isoform 4 of Cell adhesion molecule 1	1.696	1.15	1.982	182	702	254	Y
Q8R464	Cadm4	Cell adhesion molecule 4	0.951	1.3	2.694	9	48	19	N
P10810	Cd14	Monocyte differentiation antigen CD14	2.058	1.207	1.774	105	314	213	Y
O35566	Cd151	CD151 antigen	1.981	1.353	2.058	64	145	40	Y
Q8VE98	Cd276	CD276 antigen	1.747	1.225	2.232	5	36	6	Y
P56528	Cd38	ADP-ribosyl cyclase 1	.	1.304	2.074	.	215	204	N
Q61735	Cd47	Leukocyte surface antigen CD47	1.725	1.273	2.008	9	7	4	N
P40240	Cd9	CD9 antigen	1.807	1.529	2.654	11	140	13	Y
Q8VCN6	Cd99	CD99 antigen	2.746	1.443	2.98	3	25	2	Y
I7HJQ8	Cd99l2	CD99 antigen-like protein 2	1.553	1.277	2.061	56	37	31	Y
P09803	Cdh1	Cadherin-1	1.361	0.995	1.587	221	1744	623	Y
Q9WTR5	Cdh13	Cadherin-13	1.741	1.096	2.27	110	262	252	N
Q9R100	Cdh17	Cadherin-17	6.791	0.948	1.862	231	2872	948	Y
D3YYT0	Cdh2	Cadherin-2	1.944	1.232	2	229	629	306	Y
Q9QX15	Clca1	Calcium-activated chloride channel regulator 1	.	1.659	1.543	.	21	14	N
O88552	Cldn2	Claudin-2	4.582	1.691	1.654	2	2	2	N
Q9Z262	Cldn6	Claudin-6	0.716	1.411	1.978	2	18	4	N
Q9CQX5	Cldnd1	Claudin domain-containing protein 1	.	1.516	3.074	.	21	3	N
Q9QXT0	Cnpy2	Protein canopy homolog 2	0.315	1.224	1.288	10	72	34	N
Q80V42	Cpm	Carboxypeptidase M	.	2.08	1.983	.	8	84	Y
Q64735	Cr1l	Isoform 2 of Complement component receptor 1-like protein	1.629	1.404	2.05	34	253	88	N
P97792	Cxadr	Coxsackievirus and adenovirus receptor homolog	1.845	1.018	1.405	222	691	446	Y
Q62165	Dag1	Dystroglycan	1.432	0.974	2.188	214	449	394	Y
Q91ZV3	Dcbld2	Discoidin, CUB and LCCL domain-containing protein 2	3.848	1.113	2.228	3	183	21	Y
Q03146	Ddr1	Epithelial discoidin domain-containing receptor 1	.	1.69	3.169	.	78	52	Y
P97465	Dok1	Docking protein 1	.	1.301	1.753	.	3	2	N
Q8C255	Dpep2	Dipeptidase 2	.	2.331	3.377	.	5	11	N
P55292	Dsc2	Isoform 2B of Desmocollin-2	.	1.281	2.614	.	23	5	Y
Q4PZA2	Ece1	Isoform C of Endothelin-converting enzyme 1	1.043	1.378	2.038	9	9	43	Y
O08543	Efna5	Ephrin-A5	2.217	1.67	2.246	3	35	18	Y
P52795	Efnb1	Ephrin-B1	2.714	1.389	2.236	57	461	206	Y
P52800	Efnb2	Ephrin-B2	1.315	1.486	2.141	67	757	328	Y
Q01279	Egfr	Epidermal growth factor receptor	1.343	2.904	3.112	50	55	68	Y
Q99JW5	Epcam	Epithelial cell adhesion molecule	1.65	0.937	1.31	16	151	54	Y
Q03145	Epha2	Ephrin type-A receptor 2	2.996	1.333	3.015	53	1013	515	Y
Q61526	Erbb3	Receptor tyrosine-protein kinase erbB-3	.	1.403	2.207	.	14	10	Y
Q3TZZ7	Esyt2	Extended synaptotagmin-2	1.292	0.891	1.256	10	425	194	N
O88792	F11r	Junctional adhesion molecule A	1.627	1.398	2.159	55	601	82	Y
P20352	F3	Tissue factor	5.044	1.134	2.468	105	815	303	Y
Q8BGT1	Flrt3	Fibronectin leucine rich transmembrane protein 3	1.202	1.008	1.961	45	870	789	Y
O70421	Fzd1	Frizzled-1	1.245	1.364	1.741	1	3	3	N
Q9JIP6	Fzd2	Frizzled-2	.	2.445	1.981	.	7	1	N
Q61089	Fzd6	Frizzled-6	.	2.109	2.063	.	3	2	Y
Q01721	Gas1	Growth arrest-specific protein 1	.	2.097	1.94	.	13	1	N
P21278	Gna11	Guanine nucleotide-binding protein subunit alpha-11	.	1.23	2.484	.	13	5	N
P21279	Gnaq	Guanine nucleotide-binding protein G(q) subunit alpha	.	1.437	1.747	.	13	3	N
Q9QZF2	Gpc1	Glypican-1	4.95	1.844	1.79	2	65	27	Y
Q9R087	Gpc6	Glypican-6	.	1.62	2.485	.	18	30	N
Q6F3F9	Gpr126	G-protein coupled receptor 126	0.697	1.65	1.294	2	6	1	Y
Q8K209	Gpr56	G-protein coupled receptor 56	0.413	1.635	1.337	7	13	7	Y
G5E8C3	Gprc5a	G protein-coupled receptor, family C, group 5, member A	2.202	1.576	1.283	20	5	4	Y
P01899	H2-D1	H-2 class I histocompatibility antigen, D-B alpha chain	1.653	1.038	1.356	36	213	251	N
P03991	H2-K1	H-2 class I histocompatibility antigen, K-W28 alpha chain	1.515	1.123	1.479	46	118	192	N
P01897	H2-L	H-2 class I histocompatibility antigen, L-D alpha chain	1.434	1.05	1.539	34	188	214	N
Q9JHJ8	Icoslg	ICOS ligand	.	1.275	2.01	.	22	11	N

Accession	Gene	Description	AK10965	AK192	AK196	AK10965	AK192	AK196	Human[a]
			Ratio KRAS ON/OFF			MSEvent			
E9QNX9	Igf1r	Tyrosine-protein kinase receptor	1.649	1.078	1.67	113	276	275	Y
Q6ZQA6	Igsf3	Immunoglobulin superfamily member 3	1.837	0.925	1.708	19	725	430	Y
Q8R366	Igsf8	Immunoglobulin superfamily member 8	1.684	0.861	1.452	90	622	461	Y
Q80XZ4	Il22ra1	Interleukin-22 receptor subunit alpha-1	.	1.207	1.775	.	51	10	N
P16382	Il4r	Interleukin-4 receptor subunit alpha	.	1.614	2.462	.	3	8	N
P15208	Insr	Insulin receptor	2.182	1.028	1.502	59	260	365	Y
Q99KW9	Itfg1	T-cell immunomodulatory protein	1.973	1.072	2.303	1	23	12	Y
Q3V3R4	Itga1	Integrin alpha-1	1.466	0.95	1.443	69	135	114	Y
Q62469	Itga2	Integrin alpha-2	2.523	1.053	1.802	375	2123	851	Y
Q62470	Itga3	Integrin alpha-3	1.795	.	1.649	455	.	1833	Y
P11688	Itga5	Integrin alpha-5	2.075	0.983	1.926	16	151	151	Y
Q61739	Itga6	Isoform Alpha-6X1A of Integrin alpha-6	2.502	1.269	2.254	269	2155	907	Y
Q61738	Itga7	Isoform Alpha-7X2B of Integrin alpha-7	1.839	0.807	1.69	8	169	41	N
P43406	Itgav	Integrin alpha-V	1.509	1.116	2.029	232	3377	1120	Y
P09055	Itgb1	Integrin beta-1	2.155	0.96	1.717	489	7015	3679	Y
O54890	Itgb3	Integrin beta-3	2.2	1.156	2.175	41	676	318	Y
A2A863	Itgb4	Isoform 2 of Integrin beta-4	2.592	1.184	2.25	242	2476	813	Y
O70309	Itgb5	Integrin beta-5	1.385	1.046	1.581	57	352	248	Y
Q9JI59	Jam2	Junctional adhesion molecule B	.	2.001	3.533	.	13	25	N
Q80W68	Kirrel	Kin of IRRE-like protein 1	1.114	1.258	1.77	21	259	60	Y
P20937	Klra1	T-cell surface glycoprotein YE1/48	.	1.215	1.701	.	19	17	N
P11438	Lamp1	Lysosome-associated membrane glycoprotein 1	1.046	1.758	2.399	2	3	7	Y
B2KGR2	Lancl1	LanC-like protein 1 (Fragment)	.	2.707	3.087	.	1	7	N
P35951	Ldlr	Low-density lipoprotein receptor	0.655	1.463	2.101	14	313	168	Y
P50284	Ltbr	Tumor necrosis factor receptor superfamily member 3	1.619	1.126	2.747	1	116	9	Y
F8VQL0	Met	Hepatocyte growth factor receptor	1.558	1.066	1.502	30	213	148	Y
B7ZCL8	Mpp1	55 kDa erythrocyte membrane protein	.	1.281	1.373	.	13	36	N
Q3TEW6	Mpzl1	Myelin protein zero-like protein 1	1.813	1.302	1.687	9	69	26	Y
Q91WI4	Mpzl2	Epithelial V-like antigen 1	.	1.209	1.642	.	34	9	N
Q02496	Muc1	Mucin-1	1.571	0.859	1.358	6	64	44	Y
E9QB01	Ncam1	Neural cell adhesion molecule 1	1.135	1.583	1.685	257	915	21	Y
P57716	Ncstn	Nicastrin	1.945	1.267	2.119	35	223	87	Y
Q9CR95	Necap1	Adaptin ear-binding coat-associated protein 1	.	2.251	2.314	.	2	2	N
E9QK04	Neo1	Neogenin	3.283	1.711	1.606	115	1203	1001	Y
G5E8J0	Notch2	Neurogenic locus notch homolog protein 2	0.53	1.38	2.218	2	110	96	Y
Q61503	Nt5e	5'-nucleotidase	1.269	1.351	1.759	48	421	594	Y
Q9EQ09	Olr1	Oxidized low-density lipoprotein receptor 1	.	2.357	2.261	.	4	4	N
Q8BWG9	Orai1	Calcium release-activated calcium channel protein 1	1.346	.	1.82	1	9	2	N
Q9JK83	Pard6b	Isoform 2 of Partitioning defective 6 homolog beta	1.513	1.227	0.939	3	2	5	N
Q2YFS3	Pilra	Isoform 2 of Paired immunoglobulin-like type 2 receptor alpha	5.878	1.541	2.709	9	63	56	N
P35456	Plaur	Urokinase plasminogen activator surface receptor	2.504	1.38	2.756	21	137	35	Y
Q9R0M4	Podxl	Podocalyxin	3.351	1.156	1.971	1	39	26	Y
Q99JY8	Ppap2b	Lipid phosphate phosphohydrolase 3	5.864	1.113	1.341	4	59	17	N
G3XA61	Ppap2c	Lipid phosphate phosphohydrolase 2	1.773	1.033	2.291	1	8	2	Y
Q64695	Procr	Endothelial protein C receptor	2.853	1.178	1.812	31	142	121	Y
Q9WV91	Ptgfrn	Prostaglandin F2 receptor negative regulator	1.433	0.928	1.659	303	1567	835	Y
Q91V35	Ptpra	Protein tyrosin phosphatase receptor type alpha	1.752	1.256	1.806	13	41	9	Y
P49446-3	Ptpre	Isoform 3 of Receptor-type tyrosine-protein phosphatase epsilon	.	1.432	1.441	.	47	1	N
A2A8L5	Ptprf	Receptor-type tyrosine-protein phosphatase F	2.759	0.966	1.627	56	716	310	Y
F8VQD7	Ptprg	Receptor-type tyrosine-protein phosphatase gamma	3.708	1.156	1.694	12	224	77	Y
P35822	Ptprk	Receptor-type tyrosine-protein phosphatase kappa	1.416	0.902	1.587	87	572	419	Y
B0V2N1	Ptprs	Receptor-type tyrosine-protein phosphatase S	.	1.209	2.001	.	403	197	Y
B9EKR1	Ptprz1	Protein Ptprz1	.	1.506	1.567	.	10	4	N
Q8K094	Pvr	Poliovirus receptor	2.368	0.951	1.849	99	241	276	Y
Q9JKF6	Pvrl1	Poliovirus receptor-related protein 1	1.068	1.754	1.95	12	14	8	Y
P32507	Pvrl2	Poliovirus receptor-related protein 2	1.786	1.251	2.46	29	155	139	Y
Q9JLB9	Pvrl3	Poliovirus receptor-related protein 3	.	1.467	1.955	.	25	46	Y
Q3TEG7	Rab2b	Ras-related protein Rab-2B	.	1.303	4.47	.	105	57	N
O08602	Raet1a	Retinoic acid early-inducible protein 1-alpha	.	1.284	1.811	.	188	85	N
O08603	Raet1b	Retinoic acid early-inducible protein 1-beta	2.371	1.137	1.748	10	189	92	N
O08604	Raet1c	Retinoic acid early-inducible protein 1-gamma	3.062	1.338	1.426	9	161	76	N
P61226	Rap2b	Ras-related protein Rap-2b	.	1.359	2.269	.	16	8	N
Q7TQ33	Rgmb	RGM domain family member B	3.114	1.454	2.072	6	54	16	N
E9PUN5	Ror2	Tyrosine-protein kinase transmembrane receptor ROR2	1.823	1.033	2.106	8	2	13	N
Q61009	Scarb1	Scavenger receptor class B member 1	1.329	1.303	2.324	2	23	16	Y
O35114	Scarb2	Lysosome membrane protein 2	0.806	2.165	2.295	2	6	14	Y
P18828	Sdc1	Isoform 2 of Syndecan-1	4.895	1.21	2.486	4	59	52	Y
O35988	Sdc4	Syndecan-4	7.446	2.416	2.314	2	9	19	N
Q62178	Sema4a	Semaphorin-4A	.	1.23	2.532	.	100	140	N
Q62179	Sema4b	Semaphorin-4B	4.373	1.312	3.331	11	284	155	Y
Q64151	Sema4c	Semaphorin-4C	2.54	1.142	1.779	1	61	46	Y
O09126	Sema4d	Semaphorin-4D	3.459	0.876	1.723	1	25	45	Y
O54951	Sema6b	Semaphorin-6B	.	1.465	2.251	.	10	4	N
Q76KF0	Sema6d	Isoform 2 of Semaphorin-6D	.	1.337	2.52	.	205	62	N
Q9QUR8	Sema7a	Semaphorin-7A	.	1.454	1.315	.	83	10	Y
Q78IQ7	Slc39a4	Zinc transporter ZIP4	9.648	0.627	1.585	12	321	262	N

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			Ratio KRAS ON/OFF			MSEvent			
P10852	Slc3a2	4F2 cell-surface antigen heavy chain	1.464	0.915	1.478	161	705	381	Y
Q6X893	Slc44a1	Choline transporter-like protein 1	1.593	.	2.25	28	.	8	Y
Q9WTR6	Slc7a11	Cystine/glutamate transporter	2.991	1.169	1.854	1	11	5	N
Q9Z127	Slc7a5	Large neutral amino acids transporter small subunit 1	1.424	1.004	1.797	23	47	20	Y
Q8BGK6	Slc7a6	Y+L amino acid transporter 2	1.377	1.099	2.458	17	8	5	N
Q61165	Slc9a1	Sodium/hydrogen exchanger 1	.	1.282	1.93	.	3	1	Y
Q9JHL1	Slc9a3r2	Na(+)/H(+) exchange regulatory cofactor NHE-RF2	1.472	0.927	1.582	11	56	63	N
O09044	Snap23	Synaptosomal-associated protein 23	0.637	1.285	1.322	22	48	38	N
Q9CWR7	Steap1	Metalloreductase STEAP1	2.076	0.861	1.265	2	55	6	Y
Q99JB2	Stoml2	Stomatin-like protein 2	1.241	1.532	0.551	6	15	46	N
Q62351	Tfrc	Transferrin receptor protein 1	3.169	0.875	1.947	29	853	207	Y
Q62312	Tgfbr2	Isoform RII-1 of TGF-beta receptor type-2	.	1.474	1.894	.	24	9	N
Q9QUK6	Tlr4	Toll-like receptor 4	.	1.282	1.982	.	8	8	N
Q64302	Tm4sf1	Transmembrane 4 L6 family member 1	1.549	.	2.047	2	.	2	N
Q9D771	Tmem206	Transmembrane protein 206	1.709	1.052	1.816	2	24	5	N
Q9QZM4	Tnfrsf10b	Tumor necrosis factor receptor superfamily member 10B	4.172	0.93	2.346	14	334	225	Y
E9PZT5	Tnfrsf12a	Tumor necrosis factor receptor superfamily member 12A	.	1.96	2.957	.	3	5	N
P25118	Tnfrsf1a	Tumor necrosis factor receptor superfamily member 1A	.	1.661	1.99	.	48	24	N
Q9ER62	Tnfrsf22	Tumor necrosis factor receptor superfamily member 22	2.915	1.332	2.253	1	140	13	N
Q9ER63	Tnfrsf23	Tumor necrosis factor receptor superfamily member 23	.	1.678	2.834	.	74	6	N
P41274	Tnfsf9	Tumor necrosis factor ligand superfamily member 9	10.969	1.353	2.533	4	140	116	N
Q9Z0L0	Tpbg	Trophoblast glycoprotein	1.929	1.197	1.918	34	281	65	Y
Q8QZY6	Tspan14	Tetraspanin-14	1.698	1.451	1.816	3	13	3	N
Q8R3G9	Tspan8	Tetraspanin-8	1.706	1.552	2.415	11	14	5	Y
D3YXN7	Tspan9	Tetraspanin-9 (Fragment)	1.498	1.554	.	3	1	.	N
P55144	Tyro3	Isoform 1 of Tyrosine-protein kinase receptor TYRO3	.	1.413	1.99	.	1	5	N
Q8HWA3	Ulbp1	Protein Ulbp1	3.431	1.799	1.174	8	68	1	N
P63044	Vamp2	Vesicle-associated membrane protein 2	.	1.339	1.557	.	18	10	N
P63024	Vamp3	Vesicle-associated membrane protein 3	.	1.297	1.675	.	26	10	N
Q9CZT5	Vasn	Vasorin	1.783	1.701	3.395	1	20	18	Y
Q9Z0K8	Vnn1	Pantetheinase	1.361	1.418	1.557	361	829	467	Y
Q9D2J4	Vsig1	V-set and immunoglobulin domain-containing protein 1	1.516	1.081	2.202	63	484	1306	N
B1AVD1	Xpnpep2	Protein Xpnpep2	1.201	1.74	.	6	14	.	N
Q5Y5T1	Zdhhc20	Isoform 2 of Probable palmitoyltransferase ZDHHC20	1.799	0.887	1.513	4	13	9	N
Q62523	Zyx	Zyxin	.	1.706	2.189	.	2	3	N
O35632	Hyal2	Hyaluronidase-2	1.684	1.249	1.798	2	10	22	Y
P07141	Csf1	Isoform 2 of Macrophage colony-stimulating factor 1	1.143	1.232	1.856	34	3	6	Y
P53690	Mmp14	Matrix metalloproteinase-14	1.46	1.35	2.563	7	22	2	Y
Q5FWI3	Tmem2	Transmembrane protein 2	2.547	1.135	1.377	19	50	23	Y
Q61468	Msln	Mesothelin	1.739	1.394	2.136	106	625	266	Y
Q8C0Z1	Itfg3	Protein ITFG3	1.452	1.061	1.543	44	42	63	Y
Q8C129	Lnpep	Leucyl-cystinyl aminopeptidase	1.93	0.978	1.985	32	38	49	Y
Q9CYN9	Atp6ap2	Renin receptor	1.924	0.826	1.521	3	5	3	Y
A2A699	Fam171a2	Protein FAM171A2	.	1.262	2.408	.	13	1	Y
Q8VDZ4	Zdhhc5	Palmitoyltransferase ZDHHC5	.	1.376	2.444	.	11	12	Y
Q9WU03-2	Spint2	Isoform 2 of Kunitz-type protease inhibitor 2	1.657	1.106	2.151	2	8	3	Y

Footnotes: [a]Enriched in human PDAC

Supplementary Table2 Kras down-regulated surfaceome gene list

Accession	Gene	Description	AK10965	AK192	AK196	AK10965	AK192	AK196
			Ratio KRAS ON/OFF			MSEvent		
Q99JY9	Actr3	Actin-related protein 3	0.662	0.977	0.393	12	208	200
O88398	Avil	Advillin	.	0.713	0.148	.	122	75
P49817	Cav1	Caveolin-1	0.685	0.999	0.465	30	30	9
P59242-2	Cgn	Isoform 2 of Cingulin	.	0.69	0.247	.	30	31
Q6AW69	Cgnl1	Isoform 5 of Cingulin-like protein 1	.	0.68	0.263	.	8	2
O35427	Crcp	DNA-directed RNA polymerase III subunit RPC9	.	0.802	0.397	.	2	9
P26231	Ctnna1	Catenin alpha-1	0.729	0.795	1.024	99	658	662
Q60598	Cttn	Src substrate cortactin	1.057	0.736	0.111	39	63	87
E9PX48	Dock7	Dedicator of cytokinesis protein 7	.	0.688	0.368	.	27	4
O70318	Epb41l2	Band 4.1-like protein 2	0.82	0.94	0.53	5	210	45
Q08509	Eps8	Epidermal growth factor receptor kinase substrate 8	.	0.705	0.531	.	23	48
Q07797	Lgals3bp	Galectin-3-binding protein	2.361	0.789	0.73	5	65	58
O55022	Pgrmc1	Membrane-associated progesterone receptor component 1	0.322	0.943	0.716	35	52	40
Q9JJ00	Plscr1	Phospholipid scramblase 1	0.456	0.664	1.293	6	11	5
Q31125	Slc39a7	Zinc transporter SLC39A7	.	0.826	0.473	.	4	1
Q3UTJ2	Sorbs2	Sorbin and SH3 domain-containing protein 2	.	0.237	0.172	.	113	65
Q62261	Sptbn1	Spectrin beta chain, non-erythrocytic 1	0.115	1.168	0.063	16	1541	1151
E9Q983	Svil	Supervillin	.	0.789	0.107	.	12	8
Q5SPX8	Tbc1d10a	TBC1 domain family member 10A	.	0.776	0.609	.	3	3
P39447	Tjp1	Tight junction protein ZO-1	.	0.601	0.658	.	172	129
Q9Z0U1	Tjp2	Tight junction protein ZO-2	0.773	0.809	1.03	1	209	155
Q8BTV1	Tusc3	Tumor suppressor candidate 3	.	0.827	0.104	.	8	1
Q9WV55	Vapa	Vesicle-associated membrane protein-associated protein A	0.388	0.946	0.445	71	496	190
Q8BH80	Vapb	Vesicle-associated membrane protein, associated protein B and C	0.491	1.045	0.791	19	213	128
Q8BH43	Wasf2	Wiskott-Aldrich syndrome protein family member 2	.	0.77	0.436	.	19	14

Supplementary Table 3 Ingenuity pathway analysis of Kras* regulated surfaceome

pathway	score	ratio	rank_Kras_S[d]	rank_mm10_S[d]	pct[a]	pctBkg[b]	enrich[c]	Fisher
Caveolar-mediated Endocytosis Signaling	17.4	0.23	1	15	12.6	1.25	10.08	1.03E-10
Virus Entry via Endocytic Pathways	12.1	0.14	2	35	11.02	1.31	8.41	1.15E-08
Axonal Guidance Signaling	11.2	0.05	3	6	18.9	5.29	3.57	1.46E-07
Agrin Interactions at Neuromuscular Junction	10.4	0.16	4	57	8.66	0.88	9.84	1.24E-07
Sertoli Cell-Sertoli Cell Junction Signaling	9.86	0.08	5	30	11.81	1.95	6.06	1.32E-07
Integrin Signaling	9.55	0.07	6	38	12.6	2.16	5.83	7.29E-08
Paxillin Signaling	8.03	0.10	7	34	8.66	1.41	6.14	6.30E-06
Ephrin Receptor Signaling	7.98	0.07	8	10	10.24	2.56	4	4.95E-05
Role of Tissue Factor in Cancer	7.68	0.09	9	98	8.66	1.04	8.33	5.20E-07
Tight Junction Signaling	7.22	0.07	10	22	9.45	1.95	4.85	1.89E-05
RhoGDI Signaling	7.05	0.07	11	13	9.45	2.22	4.26	5.81E-05
Leukocyte Extravasation Signaling	7.01	0.06	12	21	10.24	2.32	4.41	2.01E-05
NF-Î°B Activation by Viruses	6.94	0.11	13	60	7.09	0.98	7.23	1.47E-05
Granulocyte Adhesion and Diapedesis	6.94	0.07	14	9	9.45	2.59	3.65	0.00022
PTEN Signaling	6.74	0.08	15	23	7.87	1.55	5.08	6.76E-05
Germ Cell-Sertoli Cell Junction Signaling	6.13	0.06	16	137	8.66	1.18	7.34	1.41E-06
Epithelial Adherens Junction Signaling	5.91	0.07	17	74	7.87	1.31	6.01	1.99E-05
Agranulocyte Adhesion and Diapedesis	5.75	0.06	18	31	8.66	2.02	4.29	0.00011
Regulation of the Epithelial-Mesenchymal Transition Pathway	5.75	0.06	19	92	8.66	1.48	5.85	9.22E-06
PCP pathway	5.69	0.11	20	86	5.51	0.67	8.22	7.41E-05
Reelin Signaling in Neurons	5.61	0.09	21	110	6.3	0.81	7.78	2.95E-05
Molecular Mechanisms of Cancer	5.58	0.04	22	89	11.81	2.59	4.56	3.06E-06
Signaling by Rho Family GTPases	5.4	0.05	23	24	9.45	2.53	3.74	0.00017
Macropinocytosis Signaling	4.96	0.09	24	65	5.51	0.91	6.05	0.00035
Clathrin-mediated Endocytosis Signaling	4.75	0.05	25	115	7.87	1.41	5.58	3.45E-05
HER-2 Signaling in Breast Cancer	4.72	0.08	26	77	5.51	0.88	6.26	0.00029
NF-Î°B Signaling	4.28	0.05	27	37	7.09	1.89	3.75	0.00113
STAT3 Pathway	4.2	0.08	28	28	4.72	1.11	4.25	0.00453
Role of Osteoblasts, Osteoclasts and Chondrocytes in Rheumatoid Arthritis	4.15	0.04	29	100	7.87	1.72	4.58	0.00014

Footnotes: [a]Percent of pathway related genes in SILAC analysis
[b]Percent of pathway genes in all mouse plasma membrane genes (mm10)
[c]pct/pctBkg
[d]Surfaceome

Supplementary Table 4 Screen summarization

Gene	LogP			Rank			No._hits[a]
	AK10965	AK192	AK196	AK10965	AK192	AK196	
Tfrc	-2.74	-2.82	-1.73	2	3	20	3
Notch1	-2.60	-2.85	-2.30	3	2	9	3
Itgb4	-1.60	-2.15	-3.21	22	9	2	3
Erbb3	-1.32	-1.35	-3.19	38	45	3	3
Adgrg1	-1.40	-1.44	-2.78	33	39	4	3
Myof	-1.78	-2.27	-2.18	15	6	11	3
Tspan15	-2.10	-2.05	-2.03	11	15	14	3
Cd274	-1.62	-2.12	-1.35	20	11	37	3
Cd99	-1.85	-1.57	-1.70	13	29	21	3
Sdc1	-1.60	-1.52	-1.86	21	31	16	3
Flrt3	-1.44	-1.34	-1.53	30	46	27	3
F3	-2.87	-2.18	-1.24	1	8	40	2
Kras	-2.42	-4.33	-0.77	4	1	86	2
Gpr107	-0.84	-1.40	-3.61	88	41	1	2
Epha4	-1.08	-2.66	-1.48	58	4	30	2
Nt5E	-2.41	-1.69	-0.99	5	25	59	2
Sema4C	-2.38	-0.65	-1.86	6	95	17	2
Pvrl3	-1.58	-0.80	-2.43	23	80	6	2
Itgb1	-0.86	-1.49	-2.40	85	32	7	2
Sema4D	-1.28	-1.63	-2.35	43	28	8	2
Itfg1	-2.17	-1.48	-0.61	9	37	108	2
Igsf3	-1.85	-1.64	-0.79	14	27	83	2
Insr	-1.24	-2.06	-1.69	46	14	22	2
Vnn1	-0.90	-2.00	-1.35	76	16	36	2
Tnfrsf10B	-1.69	-1.49	-0.70	17	33	98	2
Slc3A2	-1.42	-1.99	-1.26	31	17	39	2
Plaur	-0.70	-1.72	-1.79	99	24	18	2
Cdh2	-1.64	-0.73	-1.51	19	85	29	2
Vasn	-1.31	-1.88	-1.16	41	21	43	2
Ptpra	-1.57	-1.37	-1.12	25	44	45	2
Mst1R	-1.55	-1.57	-0.69	26	30	99	2
Pvrl1	-0.75	-1.40	-1.54	92	42	26	2
Cd99L2	-1.48	-1.27	-1.40	28	49	35	2
Itga3	-0.10	-1.44	-1.48	145	40	31	2
Alcam	-1.41	-1.09	-1.47	32	63	32	2
Ly75	-1.32	-1.48	-1.23	40	34	41	2
Itfg3	-0.87	-0.55	-2.51	81	110	5	1
Atp6Ap2	-0.75	-2.29	-0.99	93	5	58	1
Ddr1	-2.33	-0.57	-0.80	7	105	81	1
Notch2	-0.94	-2.23	-0.80	71	7	79	1
Gpc4	-2.24	-1.27	-0.58	8	48	114	1
Met	-2.12	-1.10	-0.80	10	62	80	1
Itgb5	-0.92	-2.12	-0.45	75	10	126	1
Msln	-0.86	-0.63	-2.24	84	98	10	1
Cdh17	-2.04	-1.06	-1.00	12	65	55	1

Gene	LogP			Rank			No._hits[a]
	AK10965	AK192	AK196	AK10965	AK192	AK196	
Slc44A1	-1.14	-2.12	-0.63	52	12	107	1
Erbb2	-0.52	-0.71	-2.14	112	89	12	1
Glipr1	-1.08	-1.21	-2.09	57	53	13	1
Itgb3	-0.88	-2.11	-1.00	80	13	57	1
Atp1A1	-0.42	-0.83	-1.89	119	78	15	1
Epha7	-1.71	-0.70	-0.78	16	90	84	1
Muc1	-1.67	-0.12	-0.50	18	144	119	1
Itm2B	-0.96	-1.97	-0.89	70	18	67	1
Itga5	-1.01	-0.84	-1.75	68	77	19	1
Efnb2	-0.48	-1.97	-0.59	114	19	112	1
Cpm	-0.87	-1.90	-0.68	83	20	101	1
Itga6	-0.48	-1.87	-0.29	115	22	137	1
Itga1	-0.89	-1.23	-1.68	77	51	23	1
Adam9	-0.09	-1.78	-0.75	147	23	89	1
Ldlr	-1.57	-1.01	-1.08	24	68	49	1
App	-0.55	-1.20	-1.62	108	54	24	1
Cd151	-0.59	-0.84	-1.62	106	76	25	1
Ptprs	-1.24	-1.65	-1.08	45	26	48	1
Csf1	-1.52	-1.17	-1.07	27	56	50	1
Lamp1	-1.23	-0.95	-1.52	47	71	28	1
Cd44	-1.48	-0.85	-0.68	29	75	100	1
Slc9A1	-0.35	-1.15	-1.43	123	58	33	1
Bcam	-1.37	-0.62	-0.88	34	99	68	1
Dag1	-1.05	-0.38	-1.43	63	123	34	1
Slc16A3	-1.36	-0.63	-0.87	35	97	71	1
Ephb4	-0.89	-1.48	-0.75	78	35	91	1
Ephb3	-1.36	-1.01	-0.82	36	69	77	1
Spint2	-0.57	-1.48	-1.07	107	36	51	1
Atp1B3	-1.33	-1.17	-0.76	37	57	88	1
Prom1	-1.12	-1.45	-0.19	55	38	142	1
Fam171A2	-0.87	-0.92	-1.33	82	72	38	1
Thbd	-1.32	-0.37	-0.65	39	125	103	1
Ltbr	-1.07	-1.40	-0.86	59	43	73	1
Sema4B	-0.12	-1.34	-0.64	144	47	104	1
Itga2	-1.29	-0.71	-0.58	42	88	113	0
Tspan8	-1.12	-0.15	-1.19	54	142	42	0
Cd276	-1.27	-0.73	-0.60	44	86	111	0
Plxna1	-1.18	-0.60	-1.14	50	100	44	0
Cd9	-0.32	-1.13	-1.10	124	60	46	0
Podxl	-0.92	-0.41	-1.09	74	119	47	0
Egfr	-1.22	-0.80	-0.90	48	79	65	0
Atp1B1	-1.20	-0.71	-0.36	49	87	133	0
Pvr	-0.55	-1.24	-0.87	109	50	72	0
Igf1R	-1.16	-0.57	-0.19	51	104	143	0
Ptprg	-1.04	-0.79	-1.04	64	83	52	0

Gene	LogP			Rank			No._hits[a]
	AK10965	AK192	AK196	AK10965	AK192	AK196	
Itgav	-0.74	-1.22	-0.57	95	52	115	0
Vapa	-1.14	-0.40	-0.34	53	120	135	0
Efnb1	-0.88	-0.37	-1.03	79	124	53	0
Anpep	-0.29	-0.39	-1.01	128	121	54	0
Pcdh7	-0.52	-1.20	-0.71	111	55	97	0
Ece1	-1.11	-1.11	-0.87	56	61	70	0
Tpbg	-0.98	-0.44	-1.00	69	117	56	0
Adam10	-0.50	-1.13	-0.75	113	59	90	0
Jag1	-1.07	-0.41	-0.47	60	118	124	0
Cd14	-0.84	-0.68	-0.96	89	91	60	0
Sema7A	-1.06	-0.36	-0.72	61	127	94	0
Pcdh1	-0.73	-0.57	-0.94	96	103	61	0
Mmp14	-1.05	-0.50	-0.94	62	113	63	0
Cacna1I	-0.65	-0.54	-0.94	102	111	62	0
Steap1	-0.71	-1.07	-0.88	98	64	69	0
Slc44A2	-0.07	-0.35	-0.93	148	128	64	0
Scarb2	-1.03	-0.59	-0.36	65	102	132	0
Agrn	-1.03	-0.56	-0.63	66	107	106	0
Epcam	-0.75	-1.04	-0.23	94	66	140	0
Cadm1	-0.26	-0.29	-0.89	132	132	66	0
Slc7A5	-1.02	-1.03	-0.50	67	67	120	0
Adam17	-0.31	-0.99	-0.76	126	70	87	0
Epha2	-0.94	-0.34	-0.60	72	129	110	0
F11R	-0.93	-0.66	-0.61	73	92	109	0
Cdh5	-0.64	-0.88	-0.37	103	73	130	0
Cttn	-0.76	-0.80	-0.85	91	81	74	0
Plxnb2	-0.40	-0.86	-0.30	120	74	136	0
Neo1	-0.84	-0.64	-0.84	87	96	75	0
Axl	-0.45	-0.76	-0.83	116	84	76	0
Igsf8	-0.20	-0.60	-0.82	138	101	78	0
Ncam1	-0.86	-0.79	-0.73	86	82	92	0
Plxnd1	-0.17	-0.38	-0.80	140	122	82	0
Gprc5A	-0.13	-0.05	-0.78	143	148	85	0
Tmem2	-0.80	-0.21	-0.53	90	137	118	0
Hyal2	-0.61	-0.66	-0.55	104	93	116	0
Gpc1	-0.38	-0.65	-0.73	122	94	93	0
Lnpep	-0.30	-0.56	-0.72	127	106	95	0
Dsc2	-0.16	-0.16	-0.71	141	141	96	0
Ptk7	-0.73	-0.55	-0.40	97	109	129	0
Scarb1	-0.67	-0.56	-0.63	100	108	105	0
Ptprf	-0.67	-0.36	-0.65	101	126	102	0
Cxadr	-0.60	-0.12	-0.42	105	145	128	0
Efna5	-0.54	-0.52	-0.49	110	112	121	0
Ptprk	-0.25	-0.50	-0.46	134	114	125	0
Lsr	-0.15	-0.47	-0.22	142	115	141	0

Gene	LogP			Rank			No._hits[a]
	AK10965	AK192	AK196	AK10965	AK192	AK196	
Ptgfrn	-0.23	-0.47	-0.13	137	116	146	0
Cdh1	-0.43	-0.24	-0.08	117	136	148	0
Ppap2C	-0.42	-0.32	-0.54	118	131	117	0
Dcbld2	-0.39	-0.24	-0.37	121	135	131	0
Procr	-0.24	-0.11	-0.49	135	146	122	0
Pvrl2	-0.23	-0.20	-0.47	136	138	123	0
Adgrg6	-0.31	-0.34	-0.35	125	130	134	0
Fzd6	-0.28	-0.18	-0.42	130	140	127	0
Antxr2	-0.29	-0.15	-0.11	129	143	147	0
Kirrel	-0.26	-0.19	-0.24	131	139	139	0
Mpzl1	-0.25	-0.27	-0.26	133	133	138	0
Ncstn	-0.09	-0.26	-0.17	146	134	144	0
Zdhhc5	-0.18	-0.05	-0.14	139	147	145	0

Footnotes: [a]Number of cell lines showing as positive hits
[b]Highlighted: meet the cut off threshold