

Analysis of the characteristics of chemotherapy-resistant renal cell carcinomas based on global transcriptional analysis of their tissues and cell lines.

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Supporting information

S1 Table. List of genes which were significantly up-regulated in Group A^a compared with Group B^b.

Gene name	Average of RPKM value		Fold_change (log2)	p_value	q_value
	Group A	Group B			
<i>CDK15</i>	0.319	13.115	5.363	0.000	0.006
<i>COL11A1</i>	2.094	73.762	5.139	0.000	0.006
<i>UCA1</i>	0.979	30.578	4.966	0.000	0.006
<i>LAMB3</i>	6.521	170.957	4.712	0.000	0.006
<i>ZNF365</i>	1.384	26.539	4.262	0.000	0.006
<i>ADAM12</i>	2.409	36.712	3.930	0.000	0.006
<i>F3</i>	15.031	196.847	3.711	0.000	0.006
<i>WNT5A</i>	2.716	34.733	3.677	0.000	0.006
<i>ANLN</i>	23.887	299.825	3.650	0.000	0.006
<i>FN1</i>	602.536	7506.890	3.639	0.000	0.006
<i>TGFB2</i>	7.479	92.218	3.624	0.000	0.006
<i>STAC</i>	2.673	30.711	3.522	0.000	0.006
<i>LAMC2</i>	7.227	74.615	3.368	0.000	0.006
<i>GFRA1</i>	8.526	84.740	3.313	0.000	0.006
<i>CKAP2L</i>	3.074	29.651	3.270	0.000	0.006
<i>CADMI</i>	14.642	125.591	3.101	0.000	0.006
<i>NCAM1</i>	5.243	42.428	3.017	0.000	0.006
<i>CLEC4E</i>	19.262	145.796	2.920	0.000	0.006
<i>CD274</i>	4.549	34.013	2.903	0.000	0.006
<i>TTK</i>	3.913	27.852	2.831	0.000	0.006
<i>CCDC80</i>	49.642	334.115	2.751	0.000	0.006
<i>UBE2C</i>	27.786	183.929	2.727	0.000	0.006

<i>CENPE</i>	2.239	14.732	2.718	0.000	0.006
<i>COL5A1</i>	21.419	135.575	2.662	0.000	0.006
<i>DEPDC5</i>	20.025	124.902	2.641	0.000	0.006
<i>HJURP</i>	12.448	76.817	2.626	0.000	0.006
<i>IGF2BP2</i>	11.338	68.555	2.596	0.000	0.006
<i>HMMR</i>	8.282	49.467	2.578	0.000	0.006
<i>IL6</i>	28.797	170.836	2.569	0.000	0.006
<i>CENPI</i>	2.038	11.886	2.544	0.000	0.006
<i>KIF6</i>	0.635	3.548	2.483	0.000	0.006
<i>TP53BP2</i>	30.956	167.668	2.437	0.000	0.006
<i>DEPDC1</i>	4.872	25.715	2.400	0.000	0.006
<i>LINC00511</i>	4.227	22.193	2.392	0.000	0.006
<i>BUB1</i>	9.888	51.206	2.373	0.000	0.006
<i>AURKA</i>	10.966	56.249	2.359	0.000	0.006
<i>GALNT7</i>	15.589	78.593	2.334	0.000	0.006
<i>COL1A1</i>	89.404	450.260	2.332	0.000	0.006
<i>MICAL2</i>	27.256	126.108	2.210	0.000	0.006
<i>PLK4</i>	5.483	24.800	2.177	0.000	0.006
<i>NCAPH</i>	6.819	30.679	2.170	0.000	0.006
<i>DCBLD2</i>	67.897	298.010	2.134	0.000	0.006
<i>ECT2</i>	17.585	75.053	2.094	0.000	0.006
<i>LAMC1</i>	81.835	347.108	2.085	0.000	0.006
<i>CD44</i>	199.643	833.067	2.061	0.000	0.006
<i>ENAH</i>	36.594	148.814	2.024	0.000	0.006
<i>ENTPD4, LOXL2</i>	77.670	313.973	2.015	0.000	0.006
<i>SMC4</i>	47.542	189.172	1.992	0.000	0.006
<i>ITGB1</i>	391.835	1549.430	1.983	0.000	0.006
<i>PARPBP</i>	3.932	15.375	1.967	0.000	0.006
<i>BUB1B, PAK6, RP11-133K1.2</i>	11.525	44.758	1.957	0.000	0.006
<i>PARD3</i>	33.453	128.857	1.946	0.000	0.006
<i>MLPH</i>	12.750	48.779	1.936	0.000	0.006
<i>PRC1</i>	45.070	172.288	1.935	0.000	0.006

<i>ORC6</i>	6.889	25.314	1.877	0.000	0.006
<i>OXCT1</i>	36.669	133.729	1.867	0.000	0.006
<i>CPD</i>	52.116	188.664	1.856	0.000	0.006
<i>CEP70</i>	17.365	61.519	1.825	0.000	0.006
<i>TPM4</i>	363.701	1238.660	1.768	0.000	0.006
<i>ITGA3</i>	150.477	501.149	1.736	0.000	0.006
<i>RAD51API</i>	9.058	28.299	1.643	0.000	0.006
<i>NFKBIZ, NXPE3</i>	50.281	153.408	1.609	0.000	0.006
<i>BRCA1</i>	7.012	20.634	1.557	0.000	0.006
<i>PSMD2</i>	150.409	442.466	1.557	0.000	0.006
<i>NPC1</i>	54.110	155.659	1.524	0.000	0.006
<i>CDC42EP2, POLA2</i>	15.684	44.244	1.496	0.000	0.006
<i>CHEK1, STT3A</i>	134.334	375.310	1.482	0.000	0.006
<i>APCDD1L-AS1</i>	0.916	13.855	3.918	0.000	0.010
<i>TENM3</i>	3.461	31.038	3.165	0.000	0.010
<i>OSBPL6</i>	0.982	6.325	2.687	0.000	0.010
<i>SCG5</i>	8.093	46.914	2.535	0.000	0.010
<i>NEK2</i>	6.690	30.733	2.200	0.000	0.010
<i>ZWINT</i>	19.139	72.542	1.922	0.000	0.010
<i>MELK</i>	8.445	30.694	1.862	0.000	0.010
<i>FRMD6</i>	12.118	37.360	1.624	0.000	0.010
<i>R3HDM1</i>	26.706	77.986	1.546	0.000	0.010
<i>ARHGAP11A</i>	9.489	26.360	1.474	0.000	0.010
<i>HDLBP</i>	463.031	1128.930	1.286	0.000	0.010
<i>TPM1</i>	623.919	1477.030	1.243	0.000	0.010
<i>ABCB5</i>	0.670	17.890	4.738	0.000	0.014
-	0.412	4.147	3.330	0.000	0.014
<i>HSF2BP</i>	0.758	5.265	2.797	0.000	0.014
<i>CENPF</i>	10.032	67.154	2.743	0.000	0.014
<i>S100A2</i>	10.587	62.949	2.572	0.000	0.014
<i>ADAMTS6</i>	1.322	5.496	2.056	0.000	0.014
<i>DTL</i>	6.357	24.909	1.970	0.000	0.014

<i>TGFBI</i>	748.034	2661.470	1.831	0.000	0.014
<i>GPX8</i>	35.212	124.090	1.817	0.000	0.014
<i>MBOAT2</i>	14.180	42.720	1.591	0.000	0.014
<i>NUSAP1</i>	40.485	114.347	1.498	0.000	0.014
<i>MCM4</i>	94.154	264.509	1.490	0.000	0.014
<i>LINC00607</i>	0.478	2.870	2.585	0.000	0.017
<i>CREB3L1</i>	2.517	12.487	2.311	0.000	0.017
<i>SGOL1</i>	3.150	11.195	1.829	0.000	0.017
<i>RBFOX3</i>	0.316	1.100	1.798	0.000	0.017
<i>ITGB6</i>	15.506	52.717	1.765	0.000	0.017
<i>ACACA</i>	19.391	43.550	1.167	0.000	0.017
<i>HS3ST3A1</i>	0.677	7.067	3.383	0.000	0.020
<i>AC108142.1</i>	1.041	9.673	3.216	0.000	0.020
<i>MEGF11</i>	3.794	27.216	2.843	0.000	0.020
<i>CYP11B1</i>	15.007	91.173	2.603	0.000	0.020
<i>PROM2</i>	1.520	8.215	2.434	0.000	0.020
<i>KIF23</i>	9.386	42.164	2.167	0.000	0.020
<i>DIAPH3</i>	5.013	20.374	2.023	0.000	0.020
<i>CENPU</i>	12.146	44.880	1.886	0.000	0.020
<i>CTD-2510F5.6, PRR11, SMG8</i>	28.257	85.458	1.597	0.000	0.020
<i>CENPL</i>	4.938	14.704	1.574	0.000	0.020
<i>SSR3</i>	141.367	400.978	1.504	0.000	0.020
<i>HSPA8</i>	641.313	1700.070	1.407	0.000	0.020
<i>KPNA2</i>	60.528	263.156	2.120	0.000	0.022
<i>C1orf204, CCDC19, RP11-190A12.7, VSIG8</i>	8.272	32.673	1.982	0.000	0.022
<i>CALU</i>	119.785	466.839	1.962	0.000	0.022
<i>SPDL1</i>	18.479	63.549	1.782	0.000	0.022
<i>HSPA5</i>	123.808	399.273	1.689	0.000	0.022
<i>PSD3</i>	3.639	11.111	1.611	0.000	0.022
<i>GULP1</i>	33.820	99.070	1.551	0.000	0.022
<i>AURKB</i>	13.809	34.366	1.315	0.000	0.022

<i>KIFC1</i>	7.799	44.403	2.509	0.000	0.024
<i>RRM2</i>	23.251	111.439	2.261	0.000	0.024
<i>CDC45</i>	6.236	25.317	2.022	0.000	0.024
<i>CPNE7</i>	6.646	26.488	1.995	0.000	0.024
<i>AMACR, C1QTNF3, RP11-1084J3.4</i>	61.280	183.514	1.582	0.000	0.024
<i>MCM10</i>	2.325	14.636	2.654	0.000	0.026
<i>C3orf55</i>	3.235	19.909	2.621	0.000	0.026
<i>GPNMB</i>	174.159	760.166	2.126	0.000	0.028
<i>FADS1</i>	25.736	110.470	2.102	0.000	0.028
<i>GPM6A</i>	3.661	17.972	2.295	0.001	0.030
<i>RUNX2</i>	6.008	23.580	1.973	0.001	0.030
<i>PLOD2</i>	162.796	517.553	1.669	0.001	0.030
<i>FADS2, FEN1</i>	31.876	99.014	1.635	0.001	0.030
<i>CHRD1</i>	3.159	49.421	3.968	0.001	0.032
<i>RP11-150O12.1, RP11- 150O12.6, RP11- 527N22.2</i>	1.097	8.804	3.005	0.001	0.032
<i>DNMT1, SIPR2</i>	63.500	190.927	1.588	0.001	0.032
<i>WHSC1</i>	21.446	60.497	1.496	0.001	0.032
<i>EPB41L2</i>	77.991	180.967	1.214	0.001	0.032
<i>ZNF474</i>	0.427	2.738	2.681	0.001	0.034
<i>CDC6</i>	7.856	33.396	2.088	0.001	0.034
<i>HOMER2</i>	4.197	32.027	2.932	0.001	0.036
<i>SKA2</i>	44.101	158.295	1.844	0.001	0.036
<i>CDC27</i>	45.234	131.769	1.543	0.001	0.036
<i>TTF2</i>	14.559	35.721	1.295	0.001	0.036
<i>EPHB1</i>	1.309	7.234	2.466	0.001	0.039
<i>SKA3</i>	4.429	31.875	2.847	0.001	0.041
<i>SGOL2</i>	2.992	16.017	2.420	0.001	0.041
<i>PEG10</i>	27.375	140.731	2.362	0.001	0.041
<i>HNRNPR</i>	68.438	181.881	1.410	0.001	0.041
<i>SH3GL3</i>	0.187	1.511	3.011	0.001	0.042

<i>TFPI2</i>	48.416	373.012	2.946	0.001	0.042
<i>CALR</i>	503.066	1362.270	1.437	0.001	0.042
<i>PCDH9</i>	0.211	2.011	3.255	0.001	0.044
<i>NEIL3</i>	2.871	15.454	2.428	0.001	0.044
<i>ESCO2</i>	2.406	12.781	2.409	0.001	0.044
<i>P2RY6</i>	3.334	10.784	1.694	0.001	0.044
<i>SERPINE1</i>	83.455	518.890	2.636	0.001	0.046
<i>BDH1</i>	5.568	16.207	1.541	0.001	0.046
<i>TOP2A</i>	24.510	142.940	2.544	0.001	0.047
<i>ZNF385D</i>	3.558	14.168	1.994	0.001	0.047
<i>XRCC5</i>	173.447	461.388	1.411	0.001	0.047
<i>CAP1</i>	217.941	506.033	1.215	0.001	0.047
<i>ABI3BP</i>	73.637	163.607	1.152	0.001	0.047
<i>CACNA1G</i>	0.090	0.591	2.713	0.001	0.048
<i>PBK</i>	7.796	50.704	2.701	0.001	0.048
<i>MCM8</i>	4.780	16.542	1.791	0.001	0.048

^aThree poor prognosis tissues (q3_4, 5, 6) and SW839 and KMRC-1.

^bThe other 45 samples.