

Figure 2 Top Panel

Expression in Units of Standard Deviation from Median	Cancer = 1, NonCancer = 0	Moving Average of Cancer Frequency (Averaged over 150 nearest neighbor expression measurements)
-4.180796016	0	0.565789474
-3.196052414	0	0.558441558
-3.174431012	0	0.564102564
-3.1269651216	1	0.556962025
-2.90382557	0	0.5625
-2.827460618	1	0.555555556
-2.827281553	1	0.548780488
-2.797686743	1	0.542168675
-2.765851478	1	0.5357714286
-2.765367455	1	0.541176471
-2.744546584	1	0.534883721
-2.577423128	1	0.528735632
-2.525690347	1	0.534090909
-2.525690347	1	0.528089888
-2.299367409	0	0.533333333
-2.233772257	0	0.527472527
-2.233741925	0	0.532608696
-2.201938408	1	0.526881172
-2.188328099	1	0.531914894
-2.176412551	1	0.5368842105
-2.123632009	0	0.53125
-2.10574154	1	0.536082474
-2.10040098	0	0.540816327
-2.021196573	0	0.535353535
-1.956228488	0	0.53
-1.952388806	0	0.534653465
-1.950981576	0	0.539215686
-1.948722121	1	0.54368932
-1.94846923	1	0.548076923
-1.935271955	1	0.542857143
-1.921393834	0	0.547169811
-1.914308214	1	0.542056075
-1.876889491	1	0.537037037
-1.87432664	1	0.532110092
-1.873203055	0	0.527272727
-1.868422475	1	0.522525252
-1.840234678	1	0.526785714
-1.801530027	1	0.530973451
-1.7359074851	0	0.535087719
-1.707461226	1	0.530434783
-1.705557586	1	0.534482759
-1.700113528	0	0.52991453
-1.68475702	0	0.533896305
-1.670175418	1	0.529411765
-1.65992348	1	0.525
-1.657990234	1	0.520661157
-1.657990234	1	0.516393443
-1.629500611	0	0.520325203
-1.598447255	1	0.516129032
-1.59825971	0	0.52
-1.583459833	0	0.515873016
-1.567936621	1	0.519685039
-1.532356658	1	0.5234375
-1.527027102	0	0.527131783
-1.521933335	0	0.530769231
-1.521933335	0	0.534351145
-1.521933335	0	0.537878788
-1.521933335	0	0.541353383
-1.486848493	0	0.537313433
-1.483167171	0	0.540740741
-1.47852272	0	0.536764706
-1.468539493	0	0.532846715
-1.456503521	1	0.536231884
-1.451980674	1	0.539685345
-1.442516313	1	0.542857143
-1.442516313	1	0.539007092
-1.442516313	1	0.535211268
-1.437132836	0	0.531468531
-1.424243459	0	0.534722222
-1.418205256	1	0.531034483
	0	0.52739728
	1	0.530612245

Figure 2 Bottom Panel

Non-Cancer	Cancer	Expression Stdev Bn	Frequency	Fractionally normalized to 1	Moving average window of 11	Expression Stdev Bn	Frequency	Fractionally normalized to 1	Moving average window of 11
-5	0	0	0	0	0	-5	0	0	0
-4.9	0	0	0	0	0	-4.9	0	0	0
-4.8	0	0	0	0	0	-4.8	0	0	0
-4.7	0	0	0	0	0	-4.7	0	0	0
-4.6	0	0	0	0	0	-4.6	0	0	0
-4.5	0	0.000157729	0	0	0.000157729	-4.5	0	0	0
-4.4	0	0.00014339	0	0	0.00014339	-4.4	0	0	0
-4.3	0	0.00014339	0	0	0.00014339	-4.3	0	0	0
-4.2	0	0.00014339	0	0	0.00014339	-4.2	0	0	0
-4.1	0	0.001577287	1	0.001577287	0.001577287	-4.1	0	0	0
-4	0	0	0	0	0	-4	0	0	0
-3.9	0	0	0	0	0	-3.9	0	0	0
-3.8	0	0.00014339	0	0	0.00014339	-3.8	0	0	0
-3.7	0	0.00014339	0	0	0.00014339	-3.7	0	0	0
-3.6	0	0.000430169	0	0	0.000430169	-3.6	0	0	0
-3.5	0	0.00286779	0	0	0.00286779	-3.5	0	0	0
-3.4	0	0.000430169	0	0	0.000430169	-3.4	0	0	0
-3.3	0	0.000430169	0	0	0.000430169	-3.3	0	0	0
-3.2	0	0.000430169	0	0	0.000430169	-3.2	0	0	0
-3.1	1	0.003154574	2	0.003154574	0.003154574	-3.1	1	0.001733102	0
-3	0	0	0	0	0	-3	0	0	0
-2.9	1	0.001577287	1	0.001577287	0.001577287	-2.9	0	0	0
-2.8	0	0	0	0	0	-2.8	2	0.003466205	0
-2.7	0	0	0	0	0	-2.7	4	0.006932409	0
-2.6	0	0	0	0	0	-2.6	0	0	0
-2.4	0	0	0	0	0	-2.4	0	0	0
-2.3	0	0.001864067	0	0	0.001864067	-2.3	0	0	0
-2.2	1	0.002150846	2	0.002150846	0.002150846	-2.2	1	0.001733102	0
-2.1	3	0.003011184	3	0.003011184	0.003011184	-2.1	2	0.003466205	0
-2	1	0.0055922	1	0.0055922	0.0055922	-2	0	0	0
-1.9	5	0.006882707	5	0.006882707	0.006882707	-1.9	3	0.005199307	0
-1.8	2	0.003154574	2	0.003154574	0.003154574	-1.8	5	0.00665511	0
-1.7	2	0.003154574	2	0.003154574	0.003154574	-1.7	2	0.003466205	0
-1.6	4	0.006309148	4	0.006309148	0.006309148	-1.6	5	0.00665511	0
-1.5	4	0.01041009	4	0.01041009	0.01041009	-1.5	6	0.010398614	0
-1.4	7	0.01061084	7	0.01061084	0.01061084	-1.4	6	0.010398614	0
-1.3	11	0.012618297	11	0.012618297	0.012618297	-1.3	8	0.013864818	0
-1.2	9	0.01605965	9	0.01605965	0.01605965	-1.2	10	0.017331023	0
-1.1	9	0.014195584	9	0.014195584	0.014195584	-1.1	8	0.013864818	0
-1	9	0.02150846	9	0.02150846	0.02150846	-1	13	0.022530329	0
-0.9	15	0.023085747	15	0.023085747	0.023085747	-0.9	15	0.025996534	0
-0.8	19	0.029968454	19	0.029968454	0.029968454	-0.8	15	0.025996534	0
-0.7	25	0.039432177	25	0.039432177	0.039432177	-0.7	16	0.027729636	0
-0.6	19	0.029968454	19	0.029968454	0.029968454	-0.6	22	0.0312825	0
-0.5	23	0.036277603	23	0.036277603	0.036277603	-0.5	20	0.034662045	0
-0.4	15	0.023659306	15	0.023659306	0.023659306	-0.4	25	0.043327556	0
-0.3	25	0.039432177	25	0.039432177	0.039432177	-0.3	23	0.039661352	0
-0.2	28	0.04164038	28	0.04164038	0.04164038	-0.2	22	0.03812825	0
-0.1	30	0.047318612	30	0.047318612	0.047318612	-0.1	20	0.034662045	0
0	33	0.052050473	33	0.052050473	0.052050473	0	36	0.062391681	0
0.1	52	0.049182679	52	0.049182679	0.049182679	0.1	40	0.06932409	0
0.2	31	0.04895989	31	0.04895989	0.04895989	0.2	13	0.022530329	0
0.3	43	0.067823344	43	0.067823344	0.067823344	0.3	16	0.039231133	0
0.4	28	0.04164038	28	0.04164038	0.04164038	0.4	16	0.027729636	0
0.5	28	0.04164038	28	0.04164038	0.04164038	0.5	22	0.0312825	0
0.6	30	0.047318612	30	0.047318612	0.047318612	0.6	23	0.039661352	0
0.7	18	0.028391167	18	0.028391167	0.028391167	0.7	18	0.031195841	0
0.8	13	0.020504732	13	0.020504732	0.020504732	0.8	22	0.03812825	0
0.9	11	0.017350158	11	0.017350158	0.017350158	0.9	13	0.022530329	0
1	11	0.012618297	11	0.012618297	0.012618297	1	18	0.031195841	0
1.1	8	0.018927445	8	0.018927445	0.018927445	1.1	8	0.02190011	0
1.2	12	0.014052194	12	0.014052194	0.014052194	1.2	12	0.012137116	0
1.3	5	0.007866435	5	0.007866435	0.007866435	1.3	12	0.02078727	0
1.4	4	0.006309148	4	0.006309148	0.006309148	1.4	11	0.019064125	0
1.5	4	0.006309148	4	0.006309148	0.006309148	1.5	5	0.00665511	0
1.6	5	0.007866435	5	0.007866435	0.007866435	1.6	2	0.003466205	0
1.7	7	0.011041009	7	0.011041009	0.011041009	1.7	8	0.013864818	0
1.8	5	0.007866435	5	0.007866435	0.007866435	1.8	3	0.003466205	0
1.9	3	0.004731861	3	0.004731861	0.004731861	1.9	3	0.005199307	0
2	2	0.003154574	2	0.003154574	0.003154574	2	3	0.005199307	0

-1.397275657	1	0.527027027	1	0.001577287	0.004166302	1	0.001733102	0.00398869
-1.39723387	1	0.530201342	2.1	0.003164574	0.003584743	2.1	0.003466205	0.003781314
-1.395611196	0	0.522666667	2.2	0.001577287	0.002581015	2.2	0.001733102	0.00299354
-1.386228463	1	0.5229801325	2.3	0.003164574	0.002150846	2.3	0.005199307	0.002678431
-1.386375935	0	0.5229801325	2.4	0	0.001720677	2.4	0	0.002363321
-1.384002214	0	0.5229801325	2.5	0	0.001577287	2.5	0	0.002048212
-1.3811905299	0	0.536423841	2.6	0.001577287	0.001433897	2.6	0.001733102	0.00205767
-1.363340786	0	0.536423841	2.7	0.001577287	0.001147118	2.7	0.005199307	0.001890657
-1.354232947	0	0.529801325	2.8	0	0.001003728	2.8	0	0.001733102
-1.340514444	0	0.523178808	2.9	0.003164574	0.000716949	2.9	0.001733102	0.001260438
-1.340007792	0	0.516556291	3.1	0.001577287	0.000860338	3.1	0.001733102	0.001260438
-1.333380102	0	0.509933775	3.2	0	0.000716949	3.2	0.003466205	0.001260438
-1.333262642	1	0.509933775	3.3	0	0.000573559	3.3	0	0.001260438
-1.321296478	0	0.503311258	3.4	0	0.000573559	3.4	0	0.000787774
-1.31726302	0	0.496688742	3.5	0	0.000573559	3.5	0	0.000945329
-1.315643969	0	0.496688742	3.6	0	0.00286779	3.6	0	0.000787774
-1.3127503601	1	0.496688742	3.7	0.001577287	0.000286779	3.7	0	0.000787774
-1.27503601	1	0.516556291	3.8	0	0.00014339	3.8	0.001733102	0.00031511
-1.258134974	1	0.516556291	3.9	0	0.00014339	3.9	0	0.000472664
-1.250632612	0	0.523178808	4	0	0.00014339	4	0.001733102	0.000945329
-1.244434885	0	0.529801325	4	0	0.00014339	4	0	0.000472664
-1.232780044	1	0.496688742	4	0	0.00014339	4	0	0.001102883
-1.22261672	1	0.536423841	4	0	0	4	0	0.001102883
-1.22261672	1	0.536423841	4	0	0	4	0	0.001102883
-1.218366277	0	0.536423841	4.1	0	0	4.1	0	0.001102883
-1.216881612	0	0.536423841	4.2	0	0	4.2	0	0.001102883
-1.216881612	0	0.536423841	4.3	0	0	4.3	0	0.001102883
-1.213622595	0	0.536423841	4.4	0	0	4.4	0	0.000945329
-1.209460306	0	0.536423841	4.4	0	0	4.4	1	0.000945329
-1.206341746	0	0.5229801325	4.5	0	0	4.5	3	0.000945329
-1.196126903	0	0.523178808	4.6	0	0	4.6	1	0.00066551
-1.192412897	0	0.523178808	4.7	0	0	4.7	0	0.00066551
-1.177194033	1	0.516556291	4.8	0	0	4.8	0	0.001083189
-1.175068699	1	0.509933775	4.9	0	0	4.9	0	0.00123793
-1.173583973	0	0.509933775	5	0	0	5	0	0.001155402
-1.168954114	0	0.503311258	0	0	0	0	0	
-1.154299111	0	0.509933775	0	0	0	0	0	
-1.154179594	0	0.516556291	0	0	0	0	0	
-1.152989461	0	0.509933775	0	0	0	0	0	
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-1.151539568	0	0.503311258	0	0	0	0	0	
-1.141414768	0	0.496688742	0	0	0	0	0	
-1.133062116	0	0.496688742	0	0	0	0	0	
-1.116842236	0	0.490066225	0	0	0	0	0	
-1.10328597	0	0.496688742	0	0	0	0	0	
-1.101811342	0	0.490066225	0	0	0	0	0	
-1.099826797	1	0.496688742	0	0	0	0	0	
-1.092496659	1	0.490066225	0	0	0	0	0	
-1.091959119	1	0.490066225	0	0	0	0	0	
-1.080264625	1	0.490066225	0	0	0	0	0	
-1.077259728	1	0.483443709	0	0	0	0	0	
-1.063143094	0	0.490066225	0	0	0	0	0	
-1.061946011	0	0.490066225	0	0	0	0	0	
-1.055849304	0	0.490066225	0	0	0	0	0	
-1.051686529	0	0.496688742	0	0	0	0	0	
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-1.041263763	0	0.476821192	0	0	0	0	0	
-1.03898016	0	0.476821192	0	0	0	0	0	
-1.028289371	0	0.476821192	0	0	0	0	0	
-1.016574267	0	0.483443709	0	0	0	0	0	
-1.013713426	0	0.483443709	0	0	0	0	0	
-1.013642698	1	0.483443709	0	0	0	0	0	
-1.009220541	0	0.476821192	0	0	0	0	0	
-1.009019533	1	0.476821192	0	0	0	0	0	

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-0.432615497
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