

Dataset 2a Expression profiling of ZR vs ZS esophagus at 5 wks post first NMBA dose (cutoff point: q-value < 5% and ≥ 2-fold difference)

No Up-regulated probe sets associated with ZR	Affymetrix Probe ID*	Score (d)	Numerator (r)	Denominator (s+s0)	Fold-Change**	q-value(%)
3 Down-regulated probe sets associated with ZR	Affymetrix Probe ID*	Score (d)	Numerator (r)	Denominator (s+s0)	Fold-Change**	q-value(%)
NA	1380306_at	-5.346	-1.729	0.323	0.31	0.00
NA	1397225_at	-5.169	-1.766	0.342	0.31	0.00
Aqp4	1372190_at	-8.023	-1.254	0.156	0.42	0.00

Dataset 2b Expression profiling of ZR vs ZS esophagus at tumor endpoint after 3 NMBA doses (cutoff point: q-value < 5% and ≥ 2-fold difference)

46 Up-regulated probe sets associated with ZR	Affymetrix Probe ID*	Score (d)	Numerator (r)	Denominator (s+s0)	Fold-Change**	q-value(%)
NA	1380552_at	4.028	2.743	0.681	7.18	0.00
NA	1375422_at	5.253	2.567	0.489	6.25	0.00
Ppp2r4_predicted	1395409_at	3.449	1.987	0.576	3.60	0.00
LOC683586 /// LOC685072	1390771_at	3.299	1.898	0.575	3.40	0.00
NA	1392736_at	2.692	1.980	0.736	3.13	0.00
RGD1564982_predicted	1381913_at	3.988	1.644	0.412	3.03	0.00
Itga1	1387144_at	3.128	1.685	0.539	2.98	0.00
RGD1565646_predicted	1375153_at	2.854	1.695	0.594	2.94	0.00
NA	1381503_at	2.377	1.622	0.682	2.84	1.24
Mcm6	1371074_a_at	3.310	1.543	0.466	2.75	0.00
Abca1	1394490_at	2.287	1.463	0.639	2.71	1.69
NA	1389986_at	2.533	1.464	0.578	2.66	0.75
NA	1378507_at	3.108	1.397	0.449	2.59	0.00
NA	1382431_at	1.990	1.291	0.649	2.49	3.29
MGC105830 /// LOC682488	1393669_at	2.410	1.450	0.602	2.48	1.24
Ccnd2	1370810_at	4.076	1.315	0.323	2.47	0.00
NA	1386641_at	4.614	1.264	0.274	2.40	0.00
NA	1373536_at	2.205	1.504	0.682	2.34	2.08
RGD1561749_predicted	1374805_at	2.970	1.288	0.434	2.33	0.00
Kcnh1	1396147_at	2.837	1.261	0.444	2.31	0.00
Sema6a_predicted	1392795_at	2.679	1.239	0.462	2.29	0.00
Zfp36l2	1389851_at	2.541	1.261	0.496	2.28	0.75
MGC105830 /// LOC682488	1385270_s_at	2.268	1.285	0.566	2.21	1.69
Timeless	1368522_at	3.022	1.161	0.384	2.19	0.00
Ebf1	1394709_at	3.103	1.158	0.373	2.18	0.00
Smarca4	1375469_at	2.999	1.121	0.374	2.17	0.00
RGD1306894_predicted	1395900_at	2.868	1.106	0.386	2.16	0.00
Dedd	1369003_at	2.074	1.070	0.516	2.14	2.61
NA	1390436_at	3.295	1.083	0.329	2.14	0.00
Dbp	1387874_at	2.160	1.229	0.569	2.14	2.19
NA	1398528_at	2.668	1.135	0.425	2.14	0.00
Lasp1	1387844_at	2.577	1.141	0.443	2.13	0.44
Eps8l2_predicted	1392324_at	2.230	1.202	0.539	2.12	2.08
Cdh13	1369425_at	2.617	1.133	0.433	2.11	0.00
Arhgap1_predicted	1393113_at	2.765	1.086	0.393	2.10	0.00
Mpp7	1394924_at	2.420	1.063	0.439	2.10	1.24

Zfp91	1383052_a_at	3.406	1.065	0.313	2.08	0.00
Dhx36_predicted	1377906_at	3.443	1.056	0.307	2.08	0.00
Mcm3_predicted /// LOC367976	1372406_at	2.720	1.090	0.401	2.08	0.00
Thy1	1369651_at	3.268	1.024	0.313	2.05	0.00
Mcm2_predicted	1374036_at	2.687	1.076	0.401	2.04	0.00
Ris2_predicted	1377967_at	2.562	1.086	0.424	2.04	0.44
Nr2f6 /// LOC688367	1370380_s_at	3.188	1.037	0.325	2.03	0.00
Dhx36_predicted	1379101_at	2.748	1.043	0.380	2.01	0.00
Cdh13	1375719_s_at	2.448	1.067	0.436	2.01	0.75
Ube2e2	1376438_at	2.991	0.996	0.333	2.01	0.00

41 Down-regulated probe sets associated with ZR	Affymetrix Probe ID*	Score (d)	Numerator (r)	Denominator (s+s0)	Fold-Change**	q-value(%)
NA	1373759_at	-3.545	-2.839	0.801	0.11	0.00
Thbs1	1394109_at	-3.628	-2.613	0.720	0.16	0.00
Thbs1	1374529_at	-3.490	-2.558	0.733	0.19	0.00
Nr4a3	1369067_at	-3.381	-1.993	0.589	0.27	0.00
NA	1392613_at	-3.225	-1.846	0.572	0.27	0.00
Hspa1b	1370912_at	-4.418	-1.852	0.419	0.28	0.00
NA	1397225_at	-3.121	-1.846	0.591	0.28	0.00
Nrg1	1369783_a_at	-3.107	-1.722	0.554	0.29	0.00
Tas1r2	1372379_at	-3.147	-1.688	0.537	0.29	0.00
NA	1380306_at	-2.989	-1.743	0.583	0.30	0.00
Nr4a3	1393389_at	-3.610	-1.703	0.472	0.30	0.00
NA	1393018_at	-3.526	-1.698	0.482	0.31	0.00
Adamts9_predicted	1376481_at	-3.816	-1.566	0.411	0.33	0.00
LOC301121	1391184_at	-3.565	-1.544	0.433	0.34	0.00
Nr4a1	1386935_at	-2.670	-1.490	0.558	0.34	0.83
Cyp2a3a	1369136_at	-2.907	-1.491	0.513	0.34	0.00
Hspa1a /// Hspa1b	1368247_at	-3.703	-1.554	0.420	0.34	0.00
Atf3	1369268_at	-2.732	-1.402	0.513	0.35	0.83
Filip1	1379463_at	-3.267	-1.347	0.412	0.38	0.00
Tnfrsf12a	1371785_at	-2.752	-1.308	0.475	0.39	0.44
NA	1388795_at	-2.248	-1.211	0.539	0.39	2.67
Dnaja1	1368852_at	-3.921	-1.301	0.332	0.40	0.00
Dnaja1	1398819_at	-3.864	-1.270	0.329	0.41	0.00
NA	1392012_at	-2.128	-1.438	0.676	0.41	3.87
Mest	1371731_at	-2.145	-1.172	0.546	0.42	3.87
Tas1r2	1382743_at	-2.552	-1.200	0.470	0.43	1.29
Nrg1	1371211_a_at	-2.243	-1.200	0.535	0.43	2.67
Pdia3	1375388_at	-2.616	-1.142	0.436	0.44	0.83
NA	1385569_at	-2.434	-1.129	0.464	0.45	2.08
Crem	1369737_at	-2.666	-1.113	0.417	0.45	0.83
NA	1383697_at	-2.184	-1.051	0.481	0.46	3.29
NA	1383439_at	-2.906	-1.102	0.379	0.46	0.00
NA	1378645_at	-2.640	-1.080	0.409	0.46	0.83
PVR	1370177_at	-2.319	-1.064	0.459	0.46	2.19
Eed_predicted	1378925_at	-3.268	-1.107	0.339	0.46	0.00
Tas1r2	1395796_at	-2.593	-1.087	0.419	0.47	1.29
Abra	1390881_at	-2.084	-1.008	0.484	0.47	4.62
NA	1382493_at	-2.516	-1.074	0.427	0.48	1.69
LOC690728	1398107_at	-2.323	-0.995	0.428	0.49	2.19
NA	1384770_at	-2.464	-1.022	0.415	0.49	1.69

<u>Prc1_predicted</u>	1392899_at	-2.401	-0.995	0.414	0.50	2.08
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*Affymetrix probe ID corresponds to the Rat Genome 230 2.0 Array.

**Fold change represents ZR vs ZS esophageal mucosa