

**Supplementary Table 1** – Fold change<sup>1</sup> of *HOX* genes between heat map cluster groups in the UCSF and MDA tumor sets.

Gene	P-value (UCSF)	P-value (MDA)	FC <sup>1</sup> (UCSF)	FC <sup>1</sup> (MDA)
<b>HOXA1</b>	<b>0.02</b>	<b>0.009</b>	<b>1.26</b>	<b>1.26</b>
<b>HOXA2</b>	<b>0.002</b>	<b>0.0001</b>	<b>1.19</b>	<b>1.61</b>
<b>HOXA3</b>	<b>0.0009</b>	<b>&lt;0.0001</b>	<b>3.00</b>	<b>7.54</b>
<b>HOXA4</b>	<b>0.01</b>	<b>0.0001</b>	<b>1.96</b>	<b>2.65</b>
<b>HOXA5</b>	<b>0.0005</b>	<b>0.0001</b>	<b>1.82</b>	<b>3.48</b>
HOXA6	0.7	0.7	1.03	1.01
<b>HOXA7</b>	<b>0.006</b>	<b>0.01</b>	<b>1.42</b>	<b>1.24</b>
<b>HOXA9</b>	<b>&lt;0.0001</b>	<b>&lt;0.0001</b>	<b>2.21</b>	<b>12.51</b>
<b>HOXA10</b>	<b>0.004</b>	<b>&lt;0.0001</b>	<b>2.57</b>	<b>4.48</b>
HOXA11	0.02	0.1	1.25	1.12
HOXA13	0.02	0.06	1.18	1.16
HOXB1	0.7	0.01	0.95	0.89
HOXB2	0.04	0.2	1.45	1.30
HOXB3	0.5	0.8	1.02	0.96
HOXB4	0.07	0.2	1.19	1.13
HOXB5	0.05	0.1	1.12	1.10
HOXB6	0.4	0.9	1.07	1.00
<b>HOXB7</b>	<b>0.02</b>	<b>0.01</b>	<b>2.05</b>	<b>2.15</b>
HOXB8	0.02	0.2	1.12	1.15
HOXB9	0.3	0.2	1.04	1.04
HOXB13	0.2	0.3	1.08	1.08
HOXC4	0.007	0.09	1.29	1.17
HOXC5	0.2	0.9	1.05	0.97
<b>HOXC6</b>	<b>0.002</b>	<b>0.005</b>	<b>3.15</b>	<b>3.34</b>
HOXC8	0.2	0.3	0.94	0.97
HOXC9	0.001	0.3	1.52	1.12
HOXC10	0.003	0.1	3.12	1.94
HOXC11	0.6	0.3	1.18	0.91
HOXC13	0.02	0.9	1.18	1.00
HOXD1	0.1	0.3	1.13	0.92
HOXD3	0.03	0.3	1.51	1.20
HOXD4	0.04	0.1	1.28	1.38
HOXD8	0.004	0.08	2.14	1.29
HOXD9	0.1	0.4	1.14	1.21
HOXD10	0.02	0.1	1.93	3.39
HOXD11	0.02	0.2	1.23	1.25
HOXD12	0.2	0.3	0.91	0.99
HOXD13	0.07	0.1	1.38	1.46

<sup>1</sup>FC = fold change, *HOX* genes with statistically significant differences between the two heat map cluster groups in both the UCSF and MDA tumor sets are delineated in bold type.