

Supplementary Information

Table S1. Nuclear and cytoplasmic paralogous group 13 *HOX* genes expression in normal, adenoma and tumor phenotypes of thyroid. Kruskal Wallis Test (* significant values).

	Median	Normal	Adenoma	Papillary	Papil/Foll	Follicular	Kruskal Wallis Test
<i>HOX A13</i> _nuclEmembr_PRIM	>	0	0	14	11	6	0.000118 * 1
	<=	6	6	12	6	1	
<i>HOX A13</i> Citop. PRIM.	>	0	1	5	1	1	0.642506 2
	<=	6	5	21	16	6	
<i>HOX B13</i> Nucl. PRIM.	>	6	6	9	7	2	0.001318 * 3
	<=	0	0	16	10	5	
<i>HOX B13</i> Citop. PRIM.	>	3	3	13	8	2	0.810714 4
	<=	3	3	12	9	5	
<i>HOX C13</i> _nuclEmembr_PRIM	>	0	3	13	7	3	0.002118 * 5
	<=	6	3	13	10	4	
<i>HOX C13</i> Citop. PRIM.	>	0	2	14	9	4	0.001367 * 6
	<=	6	4	12	8	3	
<i>HOX D13</i> _nuclEmembr_PRIM	>	0	1	10	7	3	0.275741 7
	<=	6	5	16	10	4	
<i>HOX D13</i> Citop. PRIM.	>	0	1	13	10	6	0.00026 * 8
	<=	6	5	13	7	1	

Table S2. Comparison between the nuclear and cytoplasmic expression of paralogous group 13 *HOX* genes associated in pairs. Wilcoxon Signed ranks Test.

	Nuclear expression	Direction	Cytoplasmic Expression	Direction
<i>HOX A13</i> vs. <i>HOX B13</i>	0.033470126	Up	<0.001	Down
<i>HOX A13</i> vs. <i>HOX C13</i>	0.192198107	Up	<0.001	Down
<i>HOX A13</i> vs. <i>HOX D13</i>	<0.001	Up	<0.001	Down
<i>HOX B13</i> vs. <i>HOX C13</i>	0.183660561	Down	<0.001	Up
<i>HOX B13</i> vs. <i>HOX D13</i>	<0.001	Up	<0.001	Up
<i>HOX C13</i> vs. <i>HOX D13</i>	<0.001	Up	<0.001	Up

Table S3. Paralogous group 13 *HOX* genes expression in primary tumors versus lymph node metastases. Wilcoxon Signed Ranks Test.

Ranks nuclear	N	p-Value	Ranks cytoplasmic	N	p-Value
<i>HOX A13</i>			<i>HOX A13</i>		
MTX < Primary	8	0.24	MTX < Primary	1	0.33
MTX > Primary	4		MTX > Primary	4	
MTX = Primary	2		MTX = Primary	9	
<i>HOX B13</i>			<i>HOX B13</i>		
MTX < Primary	6	0.92	MTX < Primary	5	0.9
MTX > Primary	6		MTX > Primary	5	
MTX = Primary	2		MTX = Primary	4	
<i>HOX C13</i>			<i>HOX C13</i>		
MTX < Primary	6	0.8	MTX < Primary	2	0.65
MTX > Primary	7		MTX > Primary	5	
MTX = Primary	1		MTX = Primary	7	
<i>HOX D13</i>			<i>HOX D13</i>		
MTX < Primary	5	0.88	MTX < Primary	9	0.47
MTX > Primary	5		MTX > Primary	5	
MTX = Primary	4		MTX = Primary	0	

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