

relative organ weight of wildtype and <i>Tbx2</i> ^{+/+} mice referring to figure 1										
E18.5	relative liver weight	standard deviation	P-value wt vs <i>Tbx2</i> ^{+/+} , <i>Hprt</i> ^{+/+}	n	relative lung weight	standard deviation	P-value wt vs <i>Tbx2</i> ^{+/+} , <i>Hprt</i> ^{+/+}	n		
	(wt set to 1)		(wt set to 1)		n	(wt set to 1)		(wt set to 1)	n	
wildtype	1.00	0.05		3	1.000	0.016		3		
<i>Tbx2</i> ^{+/+/-}	1.11	0.09	0.0116	2	0.951	0.0171	<0.0005	2		
E16.5	relative liver weight	standard deviation	P-value wt vs <i>Tbx2</i> ^{+/+/-} , <i>Hprt</i> ^{+/+/-}	n	relative lung weight	standard deviation	P-value wt vs <i>Tbx2</i> ^{+/+/-} , <i>Hprt</i> ^{+/+/-}	n		
	(wt set to 1)		(wt set to 1)		n	(wt set to 1)		(wt set to 1)	n	
wildtype	1.00	0.01		4	1.00	0.09		4		
<i>Tbx2</i> ^{+/+/-}	0.91	0.08	0.074	4	0.33	0.153	<0.0005	4		
E14.5	relative liver weight	standard deviation	P-value wt vs <i>Tbx2</i> ^{+/+/-} , <i>Hprt</i> ^{+/+/-}	n	relative lung weight	standard deviation	P-value wt vs <i>Tbx2</i> ^{+/+/-} , <i>Hprt</i> ^{+/+/-}	n		
	(wt set to 1)		(wt set to 1)		n	(wt set to 1)		(wt set to 1)	n	
wildtype	1.00	0.08		4	1.00	0.00		4		
<i>Tbx2</i> ^{+/+/-}	0.93	0.09	0.386	9	0.85	0.12	0.107	9		

B

BrdU labeling indices referring to figure 2C

E14.5	average mesenchyme	standard deviation mesenchyme	P-value wt vs <i>Tbx2</i> ^{+/+/-} , <i>Hprt</i> ^{+/+/-}	n	average proximal epithelium	standard deviation prox. epithelium	P-value wt vs <i>Tbx2</i> ^{+/+/-} , prox. epithelium	n	average distal epithelium	standard deviation distal epithelium	P-value wt vs <i>Tbx2</i> ^{+/+/-} , distal epithelium	n	average diaphragm	standard deviation diaphragm	P-value wt vs <i>Tbx2</i> ^{+/+/-} , diaphragm	n
	average	standard deviation	(wt set to 1)	n	average	standard deviation	(wt set to 1)	n	average	standard deviation	(wt set to 1)	n	average	standard deviation	(wt set to 1)	n
wildtype	0.480	0.067		3	0.598	0.083		3	0.525	0.015		5	0.395	0.050		3
<i>Tbx2</i> ^{+/+/-}	0.465	0.110	0.966	3	0.620	0.094	0.689	3	0.565	0.018	0.081	6	0.342	0.170	0.461	3

BrdU labeling indices referring to figure 2F

E16.5	average mesenchyme	standard deviation mesenchyme	P-value wt vs <i>Tbx2</i> ^{+/+/-} , <i>Hprt</i> ^{+/+/-}	n	average proximal epithelium	standard deviation prox. epithelium	P-value wt vs <i>Tbx2</i> ^{+/+/-} , prox. epithelium	n	average distal epithelium	standard deviation distal epithelium	P-value wt vs <i>Tbx2</i> ^{+/+/-} , distal epithelium	n	average diaphragm	standard deviation diaphragm	P-value wt vs <i>Tbx2</i> ^{+/+/-} , diaphragm	n
	average	standard deviation	(wt set to 1)	n	average	standard deviation	(wt set to 1)	n	average	standard deviation	(wt set to 1)	n	average	standard deviation	(wt set to 1)	n
wildtype	0.296	0.015		3	0.161	0.006		3	0.197	0.016		5	0.169	0.049		3
<i>Tbx2</i> ^{+/+/-}	0.160	0.034	0.003	4	0.165	0.044	0.875	3	0.142	0.047	0.034	6	0.142	0.023	0.526	3

BrdU labeling indices referring to figure 2I

E18.5	average	standard deviation	P-value wt vs <i>Tbx2</i> ^{+/+/-} , <i>Hprt</i> ^{+/+/-}	n
	average	standard deviation	(wt set to 1)	n
wildtype	0.955	0.007		4
<i>Tbx2</i> ^{+/+/-}	0.966	0.101	0.485	4

C

statistics of RT-PCRs relative to wildtype referring to figure 5A

E14.5	Sample 1	Sample 2	Sample 3	Sample 4	Max1	Ugt10	Ugt2	Ugt4	Sgn	Plch1	Wnt2	Wnt5a	Axin2			
	average	standard deviation	P-value wt vs <i>Tbx2</i> ^{+/+/-}	n	average	standard deviation	P-value wt vs <i>Tbx2</i> ^{+/+/-}	n	average	standard deviation	P-value wt vs <i>Tbx2</i> ^{+/+/-}	n	average	standard deviation	P-value wt vs <i>Tbx2</i> ^{+/+/-}	n
E14.5 <i>Tbx2</i> ^{+/+/-}	1.07	0.95	1.07	1	1.06	0.96	1.11	1.13	0.97	1.08	1.19	0.87	0.29			
E16.5 <i>Tbx2</i> ^{+/+/-}	0.92	0.52	1.08	1	0.49	0.60	1.04	1.06	1.17	0.33	0.82	0.41	0.65			
E16.5	standard deviation															
	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test
Tbx2	standard deviation															
	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test
Tbx2	standard deviation															
	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test	t-test

statistics of RT-PCRs relative to wildtype referring to figure 5C

E14.5	Control 1	Control 2	Control 3	Control 4	Colkn1a	Colkn1aArf	Colkn1b	Colkn1bArf	Colkn1c	Colkn1d	Colkn1e	Colkn1f	Colkn1g	Colkn1h	Colkn1i	Colkn1j				
	average	standard deviation	P-value wt vs <i>Tbx2</i> ^{+/+/-} , <i>Hprt</i> ^{+/+/-}	n	average	standard deviation	P-value wt vs <i>Tbx2</i> ^{+/+/-} , <i>Hprt</i> ^{+/+/-}	n	average	standard deviation	P-value wt vs <i>Tbx2</i> ^{+/+/-} , <i>Hprt</i> ^{+/+/-}	n	average	standard deviation	P-value wt vs <i>Tbx2</i> ^{+/+/-} , <i>Hprt</i> ^{+/+/-}	n	average	standard deviation	P-value wt vs <i>Tbx2</i> ^{+/+/-} , <i>Hprt</i> ^{+/+/-}	n
<i>Tbx2</i> ^{+/+/-}	1.29	0.05	0.0005	3	1.00	0.01		3	1.00	0.01		4	0.98	0.01		4	1.00	0.01		4
wildtype	1.00	0.05		3	0.95	0.02		3	0.98	0.04		4	0.96	0.01		4	1.00	0.01		4

statistics of RT-PCRs of E18.5 lungs of compound mutants of *Tbx2*, *Cdkn1a* and *Cdkn1b* referring to figure 6C

E18.5	<i>Tbx2</i> ^{+/+/-}	<i>Cdkn1a</i> ^{-/-}	<i>Cdkn1b</i> ^{-/-}	<i>Tbx2</i> ^{+/+/-} , <i>Cdkn1a</i> ^{-/-}	<i>Tbx2</i> ^{+/+/-} , <i>Cdkn1b</i> ^{-/-}	<i>Tbx2</i> ^{+/+/-} , <i>Cdkn1a</i> ^{-/-} , <i>Cdkn1b</i> ^{-/-}						
	average	standard deviation	P-value	n	average	standard deviation	P-value	n	average	standard deviation	P-value	n
<i>Tbx2</i> ^{+/+/-}	0.55	0.02		3	0.58	0.02		3	0.55	0.02		3
wildtype	0.38	0.13	0.0005	3	0.35	0.12	0.0005	3	0.35	0.12	0.0005	3

statistics of RT-PCRs of E18.5 lungs of compound mutants of *Tbx2*, *Cdkn1a* and *Cdkn1b* referring to figure 7C

E18.5	Sample 1	Sample 2	Sample 3	Sample 4	Max1	Ugt10	Ugt2	Ugt4	Sgn	Plch1	Wnt2	Wnt5a	Axin2			
	average	standard deviation	P-value wt vs <i>Tbx2</i> ^{+/+/-} , <i>Hprt</i> ^{+/+/-}	n	average	standard deviation	P-value wt vs <i>Tbx2</i> ^{+/+/-} , <i>Hprt</i> ^{+/+/-}	n	average	standard deviation	P-value wt vs <i>Tbx2</i> ^{+/+/-} , <i>Hprt</i> ^{+/+/-}	n	average	standard deviation	P-value wt vs <i>Tbx2</i> ^{+/+/-} , <i>Hprt</i> ^{+/+/-}	n
<i>Tbx2</i> ^{+/+/-}	0.56	0.91	2.92	1	1.10	0.90	1.09	0.81	0.88	1.04	0.85					
wildtype	0.29	0.30	0.18	3	0.35	0.28	0.36	0.42	0.42	0.26	0.24	0.33				

statistics of RT-PCRs of E18.5 lungs referring to figure 7D

E18.5	<i>Tbx2</i> ^{+/+/-}	<i>Cdkn1a</i> ^{-/-}	<i>Cdkn1b</i> ^{-/-}	<i>Tbx2</i> ^{+/+/-} , <i>Cdkn1a</i> ^{-/-}	<i>Tbx2</i> ^{+/+/-} , <i>Cdkn1b</i> ^{-/-}	<i>Tbx2</i> ^{+/+/-} , <i>Cdkn1a</i> ^{-/-} , <i>Cdkn1b</i> ^{-/-}						
	average	standard deviation	P-value	n	average	standard deviation	P-value	n	average	standard deviation	P-value	n
<i>Tbx2</i> ^{+/+/-}	0.55	0.02		3	0.58	0.02		3	0.55	0.02		3
wildtype	0.38	0.13	0.0005	3	0.35	0.12	0.0005	3	0.35	0.12	0.0005	3

statistics of BrdU labeling index of *Tbx2*^{+/+/-}, *Cdkn1a*^{-/-}, *Cdkn1b*^{-/-} P40 mice referring to figure 8D

E18.5	Start	standard deviation	n	p-value
	average	standard deviation	P-value wt vs <i>Tbx2</i> ^{+/+/-} , <i>Hprt</i> ^{+/+/-}	n
<i>Tbx2</i> ^{+/+/-}	17.0	0.7	7.0	nd
wildtype	17.0	1.0	3.0	nd

number of branching endpoints referring to figure S1B

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