

Supplementary Table 1. Results of the sensitivity analyses. Default parameters are shaded in grey. Altered expression levels that differ from default levels by more than 10% are indicated by asterisks.

| ESN, AER- | | | | | | | | | | | | | |
|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|-------|--------|--------|--------|
| <i>Fgf's</i> | pAF1=0.05 | pAF1=0.25 | pAF1=0.45 | pAF2=0.05 | pAF2=0.25 | pAF2=0.45 | aAF=0.05 | aAF=0.25 | aAF=0.45 | | | | |
| AER- <i>Fgf's</i> | 1.19* | 1.98 | 2.77* | 1.95 | 1.98 | 1.98 | 6.56* | 1.98 | 1.11* | | | | |
| <i>Bmp4</i> | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | | | |
| <i>Fgf10</i> | 1.94 | 1.98 | 1.98 | 1.19* | 1.98 | 2.77* | 1.98 | 1.98 | 1.94 | | | | |
| <i>Gli3R</i> | 0.01* | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | | | |
| <i>Grem1</i> | 1.99 | 1.99 | 1.99 | 1.99 | 1.99 | 1.99 | 1.99 | 1.99 | 1.99 | | | | |
| <i>Hox A/D</i> | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | | | | |
| <i>Shh</i> | 1.92 | 1.97 | 1.98 | 1.97 | 1.97 | 1.97 | 1.99 | 1.97 | 1.92 | | | | |
| ESN, AER- | | | | | | | | | | | | | |
| <i>Fgf's</i> | K5=0 | K5=0.4 | K5=0.8 | K5=1.2 | K6=0 | K6=0.4 | K6=0.8 | K6=1.2 | | | | | |
| AER- <i>Fgf's</i> | 1.99 | 1.98 | 1.92 | 1.79 | 0.99* | 1.98 | 1.98 | 1.99 | | | | | |
| <i>Bmp4</i> | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | | | | |
| <i>Fgf10</i> | 1.98 | 1.98 | 1.97 | 1.97 | 1.92 | 1.98 | 1.98 | 1.98 | | | | | |
| <i>Gli3R</i> | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | | | | |
| <i>Grem1</i> | 1.99 | 1.99 | 1.99 | 1.99 | 1.99 | 1.99 | 1.99 | 1.99 | | | | | |
| <i>Hox A/D</i> | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | | | | | |
| <i>Shh</i> | 1.97 | 1.97 | 1.97 | 1.96 | 1.90 | 1.97 | 1.97 | 1.97 | | | | | |
| LSN, AER- | | | | | | | | | | | | | |
| <i>Fgf's</i> | pAF=0.05 | pAF=0.25 | pAF=0.5 | pAF=0.75 | aAF=0.05 | aAF=0.25 | aAF=0.45 | aAF=0.65 | aAF=0.85 | K5=0 | K5=0.4 | K5=0.6 | K5=1.2 |
| AER- <i>Fgf's</i> | 0.15* | 0.57* | 0.79 | 0.97* | 6.48* | 0.79 | 0.43* | 0.35* | 0.36* | 0.00* | 0.72 | 0.79 | 1.15* |
| <i>Bmp4</i> | 0.40* | 0.72* | 0.92 | 1.02 | 1.07* | 0.92 | 0.82* | 0.71* | 0.56* | 0.40* | 0.68* | 0.92 | 1.30* |
| <i>Gli3R</i> | 1.00* | 0.01* | 0.01 | 0.01 | 0.01* | 0.01 | 0.02* | 0.02* | 0.03* | 1.00* | 0.01 | 0.01 | 0.01 |
| <i>Grem1</i> | 0.64* | 0.36 | 0.31 | 0.28 | 0.27 | 0.31 | 0.33 | 0.37* | 0.44* | 0.64* | 0.38 | 0.31 | 0.22* |
| <i>Hox A/D</i> | 0.11* | 1.85 | 1.95 | 1.97 | 2.00 | 1.95 | 1.77 | 1.62* | 1.58* | 0.06* | 1.93 | 1.95 | 1.98 |
| Rep <i>X</i> | 0.00* | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.00* | 0.05 | 0.05 | 0.06 |
| <i>Shh</i> | 0.02* | 1.53* | 1.77 | 1.85 | 1.96* | 1.77 | 1.42* | 1.25* | 1.19* | 0.00* | 1.74 | 1.77 | 1.86 |
| LSN, AER- | | | | | | | | | | | | | |
| <i>Fgf's</i> | K6=0 | K6=0.4 | K6=0.6 | K6=1.2 | K7=0 | K7=0.4 | K7=0.6 | K7=0.8 | K7=1.2 | K8=0 | K8=0.4 | K8=0.8 | K8=1.2 |
| AER- <i>Fgf's</i> | 0.72 | 0.79 | 0.80 | 0.71* | 2.00* | 0.79 | 0.51* | 0.86 | 0.13* | 0.60* | 0.79 | 0.76 | 0.74 |
| <i>Bmp4</i> | 0.97 | 0.92 | 0.91 | 0.98 | 0.00* | 0.92 | 1.15* | 0.89 | 1.45* | 1.06* | 0.92 | 0.94 | 0.95 |
| <i>Gli3R</i> | 0.00* | 0.01 | 0.03* | 0.22* | 0.01* | 0.01 | 0.01* | 0.01 | 1.00* | 0.02* | 0.01 | 0.01 | 0.01 |
| <i>Grem1</i> | 0.30 | 0.31 | 0.31 | 0.29 | 0.19* | 0.31 | 0.37* | 0.61* | 0.87* | 0.27* | 0.31 | 0.30 | 0.30 |
| <i>Hox A/D</i> | 1.93 | 1.95 | 1.95 | 1.80 | 1.99 | 1.95 | 1.85 | 0.96* | 0.09* | 0.89* | 1.95 | 1.94 | 1.94 |
| Rep <i>X</i> | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05* | 0.00* | 0.05 | 0.05 | 0.05 | 0.05 |
| <i>Shh</i> | 1.73 | 1.77 | 1.77 | 1.71 | 1.93 | 1.77 | 1.56* | 1.80 | 0.01* | 1.40* | 1.77 | 1.75 | 1.74 |

| LSN, <i>Gli3R</i> | pR=0.05 | pR=0.25 | pR=0.45 | aR=0.05 | aR=0.25 | aR=0.45 | aR=0.65 | aR=0.85 | K9=0 | K9=0.4 | K9=0.8 | K9=1.2 | |
|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
| AER- <i>Fgf's</i> | 0.73 | 0.79 | 0.82 | 0.68* | 0.79 | 0.74 | 0.71* | 0.69* | 0.72 | 0.79 | 0.78 | 0.77 | |
| <i>Bmp4</i> | 0.96 | 0.92 | 0.90 | 0.96 | 0.92 | 0.95 | 0.97 | 0.98 | 0.96 | 0.92 | 0.93 | 0.94 | |
| <i>Gli3R</i> | 0.00* | 0.01 | 0.02* | 0.15* | 0.01 | 0.01* | 0.00* | 0.00* | 0.01 | 0.01 | 0.01 | 0.01 | |
| <i>Grem1</i> | 0.30 | 0.31 | 0.31 | 0.30 | 0.31 | 0.30 | 0.29 | 0.29 | 0.30 | 0.31 | 0.30 | 0.30 | |
| <i>Hox A/D</i> | 1.99 | 1.95 | 1.95 | 1.83 | 1.95 | 1.94 | 1.93 | 1.93 | 2.00 | 1.95 | 1.70* | 1.43* | |
| Rep <i>X</i> | 1.74 | 1.77 | 1.78 | 1.68 | 1.77 | 1.74 | 1.72 | 1.71 | 1.73 | 1.77 | 1.75 | 1.72 | |
| <i>Shh</i> | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | |
| ESN, <i>Grem1</i> | pG1=0.05 | pG1=0.25 | pG1=0.45 | pG2=0.05 | pG2=0.25 | pG2=0.45 | pG3=0.05 | pG3=0.25 | pG3=0.45 | aG=0.05 | aG=0.25 | aG=0.45 | aG=0.65 |
| AER- <i>Fgf's</i> | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.95 |
| <i>Bmp4</i> | 0.04* | 0.01 | 0.01* | 0.04* | 0.01 | 0.01* | 0.01* | 0.01 | 0.01 | 0.00* | 0.01 | 0.05* | 0.12* |
| <i>Fgf10</i> | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.97 |
| <i>Gli3R</i> | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| <i>Grem1</i> | 1.21* | 1.99 | 2.78* | 1.20* | 1.99 | 2.78* | 1.98 | 1.99 | 1.99 | 7.08* | 1.99 | 1.11* | 0.79* |
| <i>Hox A/D</i> | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 |
| <i>Shh</i> | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 |
| ESN, <i>Grem1</i> | aG=0.85 | K0=0 | K0=0.4 | K0=0.8 | K0=1.2 | K1=0 | K1=0.5 | K1=0.8 | K1=1.2 | K2=0 | K2=0.3 | K2=0.8 | K2=1.2 |
| AER- <i>Fgf's</i> | 1.87 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 |
| <i>Bmp4</i> | 0.19* | 0.01 | 0.01 | 0.01 | 0.02 | 0.06* | 0.01 | 0.01 | 0.01 | 0.01* | 0.01 | 0.01 | 0.01* |
| <i>Fgf10</i> | 1.97 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 |
| <i>Gli3R</i> | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| <i>Grem1</i> | 0.65* | 2.00 | 1.99 | 1.92 | 1.77* | 1.01* | 1.99 | 1.99 | 1.99 | 2.97* | 1.99 | 1.98 | 1.98 |
| <i>Hox A/D</i> | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 |
| <i>Shh</i> | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 |
| LSN, <i>Grem1</i> | pG1=0.05 | pG1=0.20 | pG1=0.45 | pG2=0.05 | pG2=0.30 | pG2=0.45 | pG3=0.05 | pG3=0.20 | pG3=0.45 | aG=0.05 | aG=0.25 | aG=0.45 | aG=0.65 |
| AER- <i>Fgf's</i> | 0.51* | 0.79 | 1.29* | 0.29* | 0.79 | 1.17* | 0.11* | 0.79 | 1.08* | 0.94* | 0.79 | 0.95* | 0.19* |
| <i>Bmp4</i> | 1.13* | 0.92 | 0.65* | 1.39* | 0.92 | 0.71* | 1.53* | 0.92 | 0.72* | 0.85 | 0.92 | 0.80* | 1.27* |
| <i>Gli3R</i> | 0.01* | 0.01 | 0.01 | 0.02* | 0.01 | 0.01 | 1.00* | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 1.00* |
| <i>Grem1</i> | 0.26* | 0.31 | 0.39* | 0.21* | 0.31 | 0.37* | 0.27* | 0.31 | 0.38* | 0.32 | 0.31 | 0.35* | 0.33 |
| <i>Hox A/D</i> | 1.85 | 1.95 | 1.98 | 1.55* | 1.95 | 1.98 | 0.08* | 1.95 | 1.97 | 1.97 | 1.95 | 1.96 | 0.16* |
| Rep <i>X</i> | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.00* | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.00* |
| <i>Shh</i> | 1.55* | 1.77 | 1.89 | 1.23* | 1.77 | 1.87 | 0.01* | 1.77 | 1.85 | 1.83 | 1.77 | 1.82 | 0.04* |
| LSN, <i>Grem1</i> | aG=0.85 | K0=0 | K0=0.4 | K0=1.0 | K0=1.2 | K1=0 | K1=0.4 | K1=0.8 | K1=1.2 | K2=0 | K2=0.3 | K2=0.8 | K2=1.2 |
| AER- <i>Fgf's</i> | 0.10* | 0.73 | 0.75 | 0.79 | 0.78 | 0.22* | 0.79 | 0.70* | 0.67* | 0.99* | 0.79 | 0.59* | 0.84 |
| <i>Bmp4</i> | 1.59* | 0.96 | 0.95 | 0.92 | 0.93 | 1.48* | 0.92 | 0.98 | 1.00 | 0.85 | 0.92 | 1.05* | 0.92 |
| <i>Gli3R</i> | 1.00* | 0.01 | 0.01 | 0.01 | 0.01 | 0.03* | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| <i>Grem1</i> | 0.26* | 0.30 | 0.30 | 0.31 | 0.30 | 0.21* | 0.31 | 0.29 | 0.29 | 0.31 | 0.31 | 0.29 | 0.31 |
| <i>Hox A/D</i> | 0.08* | 1.93 | 1.94 | 1.95 | 1.94 | 1.40* | 1.95 | 1.93 | 1.92 | 1.97 | 1.95 | 1.89 | 1.96 |
| Rep <i>X</i> | 0.00* | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| <i>Shh</i> | 0.01* | 1.74 | 1.75 | 1.77 | 1.76 | 1.11* | 1.77 | 1.72 | 1.69 | 1.85 | 1.77 | 1.64 | 1.80 |

| ESN, <i>Hox A/D</i> | $l=0.05$ | $l=0.15$ | $l=0.30$ | $l=0.45$ | $l=0.60$ | $aH=0.05$ | $aH=0.25$ | $aH=0.45$ | $aH=0.65$ | $aH=0.85$ |
|---------------------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|
| <i>AER-Fgf's</i> | 1.95 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.97 |
| <i>Bmp4</i> | 0.04* | 0.01* | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01* | 0.02* |
| <i>Fgf10</i> | 1.12* | 1.76* | 1.95 | 1.98 | 1.98 | 1.99 | 1.98 | 1.93 | 1.83 | 1.69* |
| <i>Gli3R</i> | 0.04* | 0.01* | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 |
| <i>Grem1</i> | 1.13* | 1.78* | 1.96 | 1.99 | 1.99 | 2.00 | 1.99 | 1.94 | 1.84 | 1.70* |
| <i>Hox A/D</i> | 0.20* | 0.60* | 1.20* | 1.80 | 2.40* | 6.59* | 1.80 | 1.00* | 0.69* | 0.53* |
| <i>Shh</i> | 1.16* | 1.82 | 1.96 | 1.97 | 1.98 | 1.98 | 1.97 | 1.94 | 1.87 | 1.76* |

| LSN, <i>Hox A/D</i> | $l=0$ | $l=0.3$ | $l=0.6$ | $l=0.9$ | $l=1.2$ | $aH=0.05$ | $aH=0.25$ | $aH=0.45$ | $aH=0.65$ | $aH=0.85$ |
|---------------------|-------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|-----------|
| <i>AER-Fgf's</i> | 0.79 | 0.76 | 0.75 | 0.74 | 0.74 | 0.79 | 0.79 | 0.66* | 0.55* | 0.49* |
| <i>Bmp4</i> | 0.92 | 0.94 | 0.95 | 0.95 | 0.95 | 0.92 | 0.92 | 1.01 | 1.10* | 1.16* |
| <i>Gli3R</i> | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01* | 0.03* | 0.05* |
| <i>Grem1</i> | 0.31 | 0.30 | 0.30 | 0.30 | 0.30 | 0.31 | 0.31 | 0.28 | 0.26* | 0.25* |
| <i>Hox A/D</i> | 1.95 | 3.14* | 4.34* | 5.54* | 6.74* | 9.66* | 1.95 | 1.05* | 0.69* | 0.51* |
| <i>Rep X</i> | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| <i>Shh</i> | 1.77 | 1.78 | 1.78 | 1.78 | 1.78 | 2.81* | 1.77 | 1.52* | 1.17* | 0.90* |

| LSN, <i>Rep X</i> | $pX=0.0005$ | $pX=0.001$ | $pX=0.25$ | $pX=0.45$ | $aX=0.005$ | $aX=0.01$ | $aX=0.125$ | $aX=0.45$ | $aX=0.65$ | $aX=0.85$ |
|-------------------|-------------|------------|-----------|-----------|------------|-----------|------------|-----------|-----------|-----------|
| <i>AER-Fgf's</i> | 2.00* | 0.79 | 0.05* | 0.05* | 0.19* | 0.79 | 2.00* | 2.00* | 2.00* | 2.00* |
| <i>Bmp4</i> | 0.02* | 0.92 | 2.00* | 2.00* | 1.61* | 0.92 | 0.02* | 0.02* | 0.02* | 0.02* |
| <i>Gli3R</i> | 0.01* | 0.01 | 1.00* | 1.00* | 0.03* | 0.01 | 0.01* | 0.01* | 0.01* | 0.01* |
| <i>Grem1</i> | 1.73* | 0.31 | 0.00* | 0.00* | 0.16* | 0.31 | 1.91* | 1.91* | 1.91* | 1.91* |
| <i>Hox A/D</i> | 1.99 | 1.95 | 0.06* | 0.06* | 1.34* | 1.95 | 1.99 | 1.99 | 1.99 | 1.99 |
| <i>Rep X</i> | 0.03* | 0.05 | 0.32* | 0.38* | 0.06* | 0.05 | 0.01* | 0.00* | 0.00* | 0.00* |
| <i>Shh</i> | 1.93 | 1.77 | 0.00* | 0.00* | 1.08* | 1.77 | 1.93 | 1.93 | 1.93 | 1.93 |

| LSN, <i>Rep X</i> | $K11=0$ | $K11=0.3$ | $K11=0.6$ | $K11=0.8$ | $K11=1.2$ |
|-------------------|---------|-----------|-----------|-----------|-----------|
| <i>AER-Fgf's</i> | 0.23* | 0.79 | 1.14* | 1.37* | 1.85* |
| <i>Bmp4</i> | 1.47* | 0.92 | 0.72* | 0.60* | 0.34* |
| <i>Gli3R</i> | 0.03* | 0.01 | 0.01 | 0.01 | 0.01* |
| <i>Grem1</i> | 0.19* | 0.31 | 0.37* | 0.41* | 0.55* |
| <i>Hox A/D</i> | 1.43* | 1.95 | 1.98 | 1.98 | 1.99 |
| <i>Rep X</i> | 0.06 | 0.05 | 0.05 | 0.05 | 0.05* |
| <i>Shh</i> | 1.13* | 1.77 | 1.87 | 1.90 | 1.92 |

| ESN, <i>Shh</i> | $pS1=0.05$ | $pS1=0.25$ | $pS1=0.45$ | $pS2=0.05$ | $pS2=0.25$ | $pS2=0.45$ | $aS=0.05$ | $aS=0.25$ | $aS=0.45$ | $aS=0.65$ | $aS=0.85$ |
|------------------|------------|------------|------------|------------|------------|------------|-----------|-----------|-----------|-----------|-----------|
| <i>AER-Fgf's</i> | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 |
| <i>Bmp4</i> | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01* |
| <i>Fgf10</i> | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 |
| <i>Gli3R</i> | 0.04* | 0.01 | 0.01* | 0.05* | 0.01 | 0.01* | 0.00* | 0.01 | 0.05* | 0.13* | 0.25* |
| <i>Grem1</i> | 1.98 | 1.99 | 1.99 | 1.98 | 1.99 | 1.99 | 1.99 | 1.99 | 1.98 | 1.96 | 1.86 |
| <i>Hox A/D</i> | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 |
| <i>Shh</i> | 1.19* | 1.97 | 2.76* | 1.18* | 1.97 | 2.76* | 6.74* | 1.97 | 1.10* | 0.76* | 0.58* |

| ESN, <i>Shh</i> | $K3=0$ | $K3=0.45$ | $K3=0.8$ | $K3=1.2$ | $K4=0$ | $K4=0.35$ | $K4=0.8$ | $K4=1.2$ |
|-----------------|--------|-----------|----------|----------|--------|-----------|----------|----------|
|-----------------|--------|-----------|----------|----------|--------|-----------|----------|----------|

| | | | | | | | | |
|------------------|------|------|------|------|------|------|-------|-------|
| <i>AER-Fgf's</i> | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 |
| <i>Bmp4</i> | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| <i>Fgf10</i> | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 |
| <i>Gli3R</i> | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.01* | 0.02* |
| <i>Grem1</i> | 1.99 | 1.99 | 1.99 | 1.99 | 1.99 | 1.99 | 1.99 | 1.99 |
| <i>Hox A/D</i> | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 |
| <i>Shh</i> | 1.99 | 1.97 | 1.92 | 1.79 | 1.98 | 1.97 | 1.90 | 1.75* |

| <i>LSN, Shh</i> | pS1=0.05 | pS1=0.25 | pS1=0.45 | pS2=0.05 | pS2=0.25 | pS2=0.45 | aS=0.05 | aS=0.25 | aS=0.45 | aS=0.65 | aS=0.85 |
|-------------------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|---------|
| AER- <i>Fgf's</i> | 0.79 | 0.79 | 0.79 | 0.80 | 0.79 | 0.77 | 0.77 | 0.79 | 0.80 | 0.76 | 0.59* |
| <i>Bmp4</i> | 0.92 | 0.92 | 0.92 | 0.91 | 0.92 | 0.94 | 0.93 | 0.92 | 0.92 | 0.94 | 1.08 |
| <i>Gli3R</i> | 0.04* | 0.01 | 0.00* | 0.05* | 0.01 | 0.00* | 0.00* | 0.01 | 0.06* | 0.16* | 0.35* |
| <i>Grem1</i> | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.30 | 0.30 | 0.31 | 0.31 | 0.30 | 0.25* |
| <i>Hox A/D</i> | 1.94 | 1.95 | 1.95 | 1.95 | 1.95 | 1.94 | 1.94 | 1.95 | 1.94 | 1.89 | 1.59 |
| Rep <i>X</i> | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| <i>Shh</i> | 1.12* | 1.77 | 2.42* | 1.01* | 1.77 | 2.52* | 9.09* | 1.77 | 0.96* | 0.64* | 0.43* |

| <i>LSN, Shh</i> | K3=0 | K3=0.4 | K3=0.65 | K3=1.2 | K4=0 | K4=0.4 | K4=0.7 | K4=1.2 |
|-------------------|-------|--------|---------|--------|------|--------|--------|--------|
| AER- <i>Fgf's</i> | 0.74 | 0.79 | 0.79 | 0.79 | 0.76 | 0.77 | 0.79 | 0.80 |
| <i>Bmp4</i> | 0.95 | 0.92 | 0.92 | 0.92 | 0.94 | 0.94 | 0.92 | 0.91 |
| <i>Gli3R</i> | 0.01* | 0.01* | 0.01 | 0.02* | 0.01 | 0.01 | 0.01 | 0.01* |
| <i>Grem1</i> | 0.30 | 0.31 | 0.31 | 0.31 | 0.30 | 0.30 | 0.31 | 0.31 |
| <i>Hox A/D</i> | 1.94 | 1.95 | 1.95 | 1.95 | 1.94 | 1.94 | 1.95 | 1.95 |
| Rep <i>X</i> | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| <i>Shh</i> | 1.96* | 1.90 | 1.77 | 1.40* | 1.79 | 1.79 | 1.77 | 1.63 |