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| A | Parameter | Figure/Table | Two-Way ANOVA | Post-Hoc Student’s t-test |
|  |  | Time | dnMAML | Interaction | 5dpf | 10dpf | 20dpf |
| Gene Expression |
| Col2a1 | Figure 2B | 0.003\* | 0.005\* | 0.069t | 0.409 | 0.086t | 0.498 |
| Sox9 | Figure 2C | 0.019\* | 0.004\* | 0.071t | 0.406 | 0.078t | 0.269 |
| ColX | Figure 2D | 0.005\* | 0.028\* | 0.204 | 0.538 | 0.182 | 0.656 |
| Ocn | Figure 4E | 0.000\* | 0.937 | 0.033\* | 0.269 | 0.866 | 0.048\* |
| Osx | Figure 4F | 0.000\* | 0.367 | 0.817 | n/a | n/a | n/a |
| Col1a1 | Figure 4G | 0.000\* | 0.990 | 0.887 | n/a | n/a | n/a |
| TRAP | Figure 4I | 0.000\* | 0.767 | 0.058t | 0.253 | 0.742 | 0.046\* |
| TNF-a | Figure 5D | 0.118 | 0.009\* | 0.369 | 0.533 | 0.027\* | 0.179 |
| IL-1B | Figure 5E | 0.045\* | 0.005\* | 0.027\* | 0.284 | 0.073t | 0.010\* |
| PCNA | Figure 6A | 0.001\* | 0.319 | 0.120 | n/a | n/a | n/a |
| CyclinD1 | Figure 6B | 0.054t | 0.247 | 0.408 | n/a | n/a | n/a |
| Histology |
| CA/TA | Figure 2A | 0.000\* | 0.002\* | 0.016 | - | 0.010\* | 0.331 |
| BA/TA | Figure 3B | 0.005\* | 0.405 | 0.506 | - | n/a | n/a |
| Avg TA | Figure 3E | 0.004\* | 0.120 | 0.019\* | - | 0.133 | 0.089t |
| Avg BA | Figure 3F | 0.928 | 0.107 | 0.141 | - | n/a | n/a |
| μCT |
| BV/TV | Figure 3A | 0.000\* | 0.753 | 0.010\* | - | 0.442 | 0.006\* |
| TV | Figure 3C | 0.018\* | 0.496 | 0.116 | - | n/a | n/a |
| BV | Figure 3D | 0.000\* | 0.879 | 0.487 | - | n/a | n/a |
| Tb.N | Table 1 | 0.000\* | 0.701 | 0.149 | - | n/a | n/a |
| Tb.Th | Table 1 | 0.019\* | 0.984 | 0.020\* | - | 0.968 | 0.004\* |
| Tb.Sp | Table 1 | 0.000\* | 0.235 | 0.295 | - | n/a | n/a |
| TMD | Table 1 | 0.000\* | 0.862 | 0.130 | - | n/a | n/a |
| SMI | Table 1 | 0.000\* | 0.747 | 0.027\* | - | 0.554 | 0.015\* |
| Conn.D | Table 1 | 0.000\* | 0.557 | 0.098t | - | 0.255 | 0.015\* |

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| B | Parameter | Figure/Table | Student’s t-test |
|  |  | 5dpf | 10dpf | 20dpf |
| Cartilage Histomorphometry |
| Immature Cartilage/CA | Figure 2E | - | 0.637 | - |
| Mature Cartilage/CA | Figure 2E | - | 0.901 | - |
| Hypertrophic Cartilage/CA | Figure 2E | - | 0.404 | - |
| Proliferating Chondrocyte Density | Figure 2F | - | 0.560 | - |
| Pre-hypertrophic Chondrocyte Density | Figure 2F | - | 0.261 | - |
| Hypertrophic Chondrocyte Density | Figure 2F | - | 0.378 | - |
| Bone Histomorphometry |
| Osteoblast Density | Figure 4A | - | 0.577 | 0.005\* |
| Osteocyte Density | Figure 4B | - | 0.174 | 0.022\* |
| Osteocyte:Osteoblast Ratio | Figure 4C | - | 0.221 | 0.000\* |
| Total Osteogenic Cell Density | Figure 4D | - | 0.604 | 0.011\* |
| Osteoclast Density | Figure 4H | - | 0.741 | 0.029\* |
| % PCNA+ Cells or Area |
| Undifferentiated Mesenchymal | Figure 6D | - | 0.934 | - |
| Pre-hypertrophic Chondrocytes | Figure 6D | - | 0.150 | - |
| Immature Bone | Figure 6E | - | 0.369 | - |
| Inflammation |
| Void/TA | Figure 5A | - | 0.040\* | - |
| Notch Gene Expression |
| GFP | Figure 1A | 0.000\* | 0.000\* | 0.000\* |
| Hes1 | Figure 1B | 0.026\* | 0.202 | 0.976 |

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| C | Parameter | Figure/Table | Mann-Whitney U test: 10dpf |
| Inflammation |
| Neutrophil | Figure 5B | 0.005\* |
| Mononuclear | Figure 5C | 0.302 |