Supplementary Table 7. Summary of key differentially expressed genes by pathway of GD12.5 VAD rat sclerotome

Pathway	Upregulated genes	Down regulated genes
Retinoic acid signaling pathway	-	Cdx1, Drd2, Olig2, Hoxa2, Hnf1b, Pitx2
Antagonize proteins of BMP pathway	Nog, Chrdl1	-
Smad-dependent BMP pathway	Bmp2, Smad1	Smad6
Non-Smad-dependent BMP pathway	-	Mkk3
Osteoblast differentiation	-	Dlx5, Osterix, Runx2

BMP, bone morphogenetic protein; GD12.5, gestational day 12.5; VAD, vitamin A deficiency.

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