

Figure S1. No significant effect on bone mineralization in *efemp1*^{-/-} mutants at 5 dpf compared to WT. (A) Ventral view of alizarin red stained WT and *efemp1*^{-/-} larvae at 5 dpf. The blue arrowheads point to the skeletal elements: branchiostegal ray1 (*br1*), ceratohyal (*ch*), dentary (*d*), entopterygoid (*en*), hyomandibular (*hm*), maxillary (*m*), opercle (*op*) and parasphenoid (*p*). (B) Fraction (%) of individuals presenting a high (maroon), normal/intermediate (red), reduced/low (light red), or absent (white) level of bone mineralization in the different bone elements in WT and *efemp1*^{-/-} fish at 5dpf. (WT n = 24, *efemp1*^{-/-} n = 15).

