Supplemental Figure 1. The optical method for measuring tracheal secretion. Tracheae extracted from 8-wk-old mice were opened along the ventral midline and fixed on a Sylgard-lined plastic dish with mucosal side up using cactus spines. Water-saturated mineral oil was mounted on the mucosal side. The dish was maintained at 37°C in a chamber superfused with 95% O₂/5% CO₂ while serial images of mucous droplets were taken with a digital camera at 30s intervals.
Supplemental Figure 2. Mean body weights of control and VAD mice. Values are means ± SEM, $n=10$. Within a diet group, means without a common letter differ, $P < 0.05$. Vitamin A deficient, VAD.
Supplemental Figure 3. Total area of SMG in control and VAD mice. Values are means ± SEM, n=3 except for wk 8, n=7. Submucosal gland, SMG; Vitamin A deficient, VAD.