Supplementary Fig. 7. Eugenol activates TRPV3 but not TRPV2 or TRPV4.

(a) Eugenol induced a significant increase of \( [\text{Ca}^{2+}]_i \) in TRPV3-expressing cells, but not in TRPV2 or TRPV4-expressing cells. Eugenol (3 mM) increased \( [\text{Ca}^{2+}]_i \) in most mTRPV3 (EGFP)-positive cells with negligible effects on mTRPV3-negative cells. DPBA (200 \( \mu \text{M} \)) increased \( [\text{Ca}^{2+}]_i \) in almost all mTRPV3-positive cells. Eugenol (3 mM) evoked little, or no, \( [\text{Ca}^{2+}]_i \) increase in mTRPV4-positive and mTRPV4-negative cells. TRPV4-expressing cells responded robustly to 1 \( \mu \text{M} \) 4\( \alpha \)-PDD. (b, c) \( I_{\text{TRPV2}} \) was not activated by 3 mM eugenol, but was activated by 300 \( \mu \text{M} \) DPBA.