Supplemental Table 1

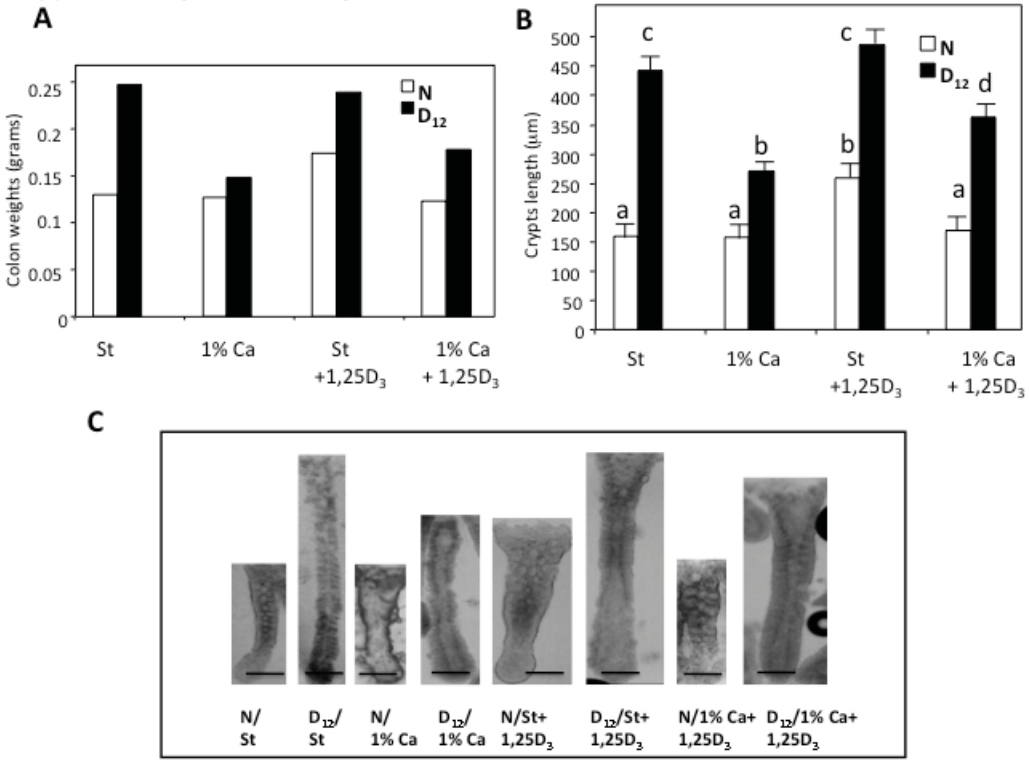
Name	Product size (bp)	Primer sequences
VDR (mouse)	413	(F) 5'-GCATGAAGCGCAAGGCCCTGTTCAC-3' (R) 5'-GTGAGGGGGTGTACAGATCAG-3'
CaSR (mouse)	899	(F) 5'- CAGCGAGCCCAAAAGAAAGG-3' (R) 5'- CTTCAGACCGAACCCAATGG-3'
Cabindin D9K (mouse)	239	(F) 5'-ATGTGTGCTGAGAAGTCTCCTGCAGAAATG-3' (R) 5'-CATTGTGAGAGCTTTTTGAAGAAAGCTTCG-3'
TRPV5 (mouse)	283	(F) 5'- ATTGACGGACCTGCCAATTACAGAG-3' (R) 5'- GTGTTCAACCCGTAAGAACCAACGGTC-3'
TRPV6 (mouse)	357	(F) 5'-ATCGATGGCCCTGCGAACT-3' (R) 5'-CAGAGTAGAGGCCATCTTGTTGCTG-3'
CYP24 (mouse)	470	(F) 5'-AAATCCAGAGCGTGCTGCCTG-3' (R) 5'-ACCGTGGACAGAACGCAATGG-3'
CYP27B1 (mouse)	772	(F) 5'-GCAGAGGCTCCGAAGTCTTC-3' (R) 5'-TGTCTGGGACACGGGAATTC-3'
GAPDH (mouse)	571	(F) 5'-TCACCATCTTCCAGGAGCG-3' (R) 5'-CTGCTTCACCACCTTCTTGA-3'
TRPV6 (human)	328	(F) 5'- ACTGTCATTGGGGCTATCATC-3' (R) 5'- CAGCAGAATCGCATCAGGTC-3'
β-actin (human	294	(F) 5'- TTAGTTGCGTTACACCCTTTC-3' (R) 5'- GTCACCTTCACCGTTCCAGTT-3'

Supplement Legends

Supplement Figure 1: Effect of a hCa diet and 1,25$(OH)_2D_3$ on colon weights, and crypt sizes. *A*, Weights of distal colons (4 cm from rectum). Values represent the means of n = 2 mice per each treatment group; *B*, Crypt lengths assessed by micrometry of isolated crypts. Values represent the means $\pm$ SD; n = 150 crypts per each treatment group. Bars with different letters are significantly different ($P < 0.05$); *C*, Representative images of isolated crypts in each of the eight treatment groups. N, uninfected; Ca, hCa diet; St, standard diet (Teklad 7012); D_{12}, day 12 post-infection; VD_3, 1,25-dihydroxyvitamin D_3 (3 ng/g, 3 times/week). bars = 75 μm.

Supplement Figure 2: Effect of hCa diet and 1,25$(OH)_2D_3$ on histopathology of the distal colon and the proliferating zone of colonic crypts. *A*, hematoxylin and eosin staining, X 400, bars = 100 μm. *B*, The proliferative zone of the crypts in the distal colon was detected by immunofluorescent labeling of PCNA. N, uninfected; Ca, hCa diet; St, standard diet (Teklad 7012); D_{12}, day 12 post-infection; VD_3, 1,25-dihydroxyvitamin D_3 (3 ng/g, 3 times/week). Quantification of PCNA-positive cells is shown in Table 1. Bars = 150 μm

Supplement Figure 1/S. Peleg



Supplement Figure 2/S. Peleg