
Supplementary information

Local immune response to food antigens drives meal-induced abdominal pain

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Supplementary Information Table 1. Primer sequences for gene detection by RT-qPCR.

Gene	Forward	Reverse	NCBI accession number
<i>Actb</i>	CATTGCTGACAGGATGCAGAA	GCTGATCCACATCTGCTGGAA	NM_007393.5
<i>Ifng</i>	GCCATCAGCAACAACATAAGCGTC	CCACTCGGATGAGCTCATTGAATG	NM_008337.4
<i>Tnf</i>	CCCCAAAGGGATGAGAAGTT	CACTTGGTGGTTTGCTACGA	NM_013693.3
<i>Il1b</i>	GGGCCTCAAAGGAAAGAATC	TACCAGTTGGGGAACCTCTGC	NM_008361.4
<i>Il6</i>	AAGTCGGAGGCTTAATTACACATGT	CCATTGCACAACCTCTTTCTCATTC	NM_031168.2
<i>Ccl2</i>	CCCCACTCACCTGCTGCTACT	GGCATCACAGTCCGAGTCACA	NM_011333.3
<i>Tgfb</i>	TGACGTCACCTGGAGTTGTACGG	GGTTCATGTCATGGATGGTGC	NM_011577.2
<i>Il4</i>	AAGAACACCACAGAGAGTGAGCTC	TTTCAGTGATGTGGACTTGGACTC	NM_021283.2
<i>Il13</i>	TGCCATCTACAGGACCCAGA	CTCATTAGAAGGGGCCGTGG	NM_008355.3
<i>Il10</i>	AGAAGCATGGCCCTGAAATCAAGG	CTTGTAGACACCTTGGTCTTGGAG	NM_010548.2
<i>Tpsab1</i>	TTGCTGACCCCAACAAGGTC	GGACGATGTAGAAGTCGGGG	NM_031187.4
<i>Kit</i>	TGGGAGCTCTTCTCCTTAGGAA	TGCTCCGGGCTGACCAT	NM_001122733.1
<i>nuc</i>	GCGATTGATGGTGATACGGTT	AGCCAAGCCTTGACGAACTAAAGC	P00644
<i>spy1258</i>	AAAGACCGCCTTAACCACT	TGGCAAGGTAACTTCTAAAGCA	A0A451ENQ3
<i>sea</i>	TTTGGAACGGTTAAAACGAATAAG	TTTCCTGTAAATAACGTCTTGCTTGA	P0A0L2
<i>seb</i>	AGGTGACTGCTCAAGAATTAGATTACC	AAGGCGAGTTGTAAATTCATAGAGTT	P01552
<i>sec</i>	GGCGATAAGTTTGACCAATCTAAATAT	AAGGTGGACTTCTATCTTCACACTTTT	P01553
<i>sed</i>	CACAAGCAAGGCGCTATTTG	TCGGGAAAATCACCCCTTAACA	P20723
<i>seg</i>	TCTCCACCTGTTGAAGGAAG	CCAAGTGATTGTCTATTGTGCGATTG	P0A0L8
<i>seh</i>	GTCTATATGGAGGTACAACACT	GACCTTTACTTATTTGCTGTC	P0A0M0
<i>selk</i>	TGGACATAACGGCACTAAAAAAGG	TTGGTARCCCATCATCTCCT	K7ZN17
<i>seli</i>	GCGATGTAGGTCCAGGAA	CATATATAGTACGAGAGTTAKAACCATATA	KT853046

<i>selm</i>	CTATTAATCTTTGGGTAAATGGAGAAC	TTCAGTTTCGACAGTTTTGTTGTCAT	KT853047
<i>selo</i>	GTTTGTGTAAGAAAGTCAAGTGTAGA	ATCTTTAAATTCAGCAGATWTTCCATCTAAC	QFQ33084
<i>selp</i>	CTGAATTGCAGGGAACWGCT	GTATATATTGGCGGTGTCTTTTGAAC	ABG66486
<i>selq</i>	AATCTCTGGGTCAATGGTAAGC	TTGTATTCGTTTTGTAGGTATTTTCG	K7ZK09
<i>selu</i>	CGAGCATGATGGAAATCAAA	CCAGACTCATAAGGCGAA	A0FKY7

Supplementary Information Video 1. Injection of food antigens in the rectosigmoid mucosa.
Representative injection of food-antigen solutions in the rectosigmoid mucosa of participants.

Supplementary Information Video 2. Mucosal edema reaction to the positive-control histamine.
Representative reaction 12-min after histamine injection.

Supplementary Information Video 3. Mucosal edema reaction to food antigens in HV. Representative reaction 12-min after food-antigen injection (milk) in HV.

Supplementary Information Video 4. Mucosal edema reaction to food antigens in IBS patients.
Representative reaction after 12-min food-antigen injection (milk) in IBS patients.