

Relative colonic gene expression in AOM vs. saline injected rats at the initiation stage.

	P-value	Relative Expression	
		AOM/Saline	Gene Name
Cell Cycle/Cell Growth			
NM_012923	2.200E-06	1.859	<i>Cyclin G1 (Ccng1)</i>
X92495	0.000030	0.623	<i>GDNF protein</i>
M73486	0.000072	0.418	<i>Growth hormone-releasing hormone (GHRH)</i>
AF010302	0.000092	0.530	<i>Vascular endothelial growth factor-C</i>
NM_019305	0.000172	0.400	<i>Fibroblast growth factor 2 (Fgf2)</i>
L81167	0.000807	0.646	<i>p16 protein (P16INK4a)</i>
Channels/Transporters			
AF125161	5.880E-06	0.358	<i>T-type calcium channel isoform</i>
AF110021	0.000021	0.553	<i>ADH water channel</i>
AF231010	0.000062	0.567	<i>P2X1 receptor isoform , alternatively spliced Hyperpolarization-activated, cyclic nucleotide-gated potassium</i>
AF247451	0.000176	0.568	<i>channel 2 (HCN2)</i>
AF169409	0.000481	0.708	<i>Organic anion transporter moat1</i>
AB022697	0.000603	0.701	<i>BEC1</i>
Cytoskeleton/Extracellular matrix			
NM_012599	0.000107	0.675	<i>Mannose binding lectin 2 (Mlb1)</i>
GTPases and related			
L35921	0.000025	0.695	<i>GTP-binding protein gamma subunit (Ggamma8)</i>
Inflammation/Immunology			
M18847	0.000039	0.640	<i>T-cell receptor active beta-chain V-region (V-J-beta1.5)</i>
U22520	0.000120	2.967	<i>Interferon inducible protein 10 (IP0)</i>
L18948	0.000546	2.468	<i>Intracellular calcium-binding protein (MRP14)</i>
Kinases and related			
NM_017294	0.000021	0.606	<i>Protein kinase C/casein kinase substrate in neurons 1 (Pacsin1)</i>
AF136583	0.000241	1.580	<i>Protein kinase SNK (Snk)</i>
Metabolism/Redox			
NM_021774	5.680E-07	0.530	<i>Fragile histidine triad protein (Fhit)</i>
M22631	4.450E-06	0.700	<i>Alpha-propionyl-CoA carboxylase</i>
M33648	0.000098	0.701	<i>Mitochondrial 3-hydroxy-3-methylglutaryl-CoA synthas</i>
AJ238392	0.000131	0.565	<i>Sulfotransferase K2</i>
AF090867	0.000134	0.687	<i>Guanosine monophosphate reductase</i>
AF320509	0.000204	0.676	<i>Delta-5 desaturase</i>
NM_019332	0.000350	0.719	<i>Peptidyl arginine deiminase, type I (Pdi1)</i>
D87839	0.000384	0.675	<i>Beta-alanine oxoglutarate aminotransferase</i>
Receptors			
X65227	0.000311	0.714	<i>NMDA receptor subunit, type NMDAR1-LL</i>

Trafficking and Transport

AF111268	9.240E-06	0.279	<i>Fatty acid transport protein (CD36/FAT)</i>
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Transcription

AJ223083	0.000030	0.715	<i>Retinoic acid X receptor gamma</i>
NM_013154	0.000175	1.442	<i>CCAAT/enhancer binding, protein (C/EBP) delta (Cebpd)</i>
NM_021691	0.000529	0.583	<i>Dermo protein (Dermo1)</i>

Other

NM_021701	0.000223	0.626	<i>Calcineurin B-like protein (Cblp)</i>
AF209976	0.000458	0.629	<i>Stromal cell-derived factor 1 (SDF)</i>

Rats were injected with saline or AOM and terminated 12 h later. Genes are grouped by functionality. The relative expression is the expression level of the gene in the colon of AOM injected rats (n=5 per diet group) divided by expression in saline injected rats (n=5 per diet group). The P-value is for the effect of treatment (AOM vs. Saline). Genes were selected based on a relative expression ≥ 1.4 or ≤ 0.75 and a p-value < 0.002 .

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