

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

	P-value	Relative Expression AOM/Saline	Gene Name
Apoptosis			
NM_019282	8.290E-05	0.570	<i>Cysteine knot superfamily 1, BMP antagonist 1 (Cktsf1b1)</i>
Cell Cycle/Cell Growth			
NM_019272	3.640E-05	0.640	<i>Semaphorin 4f (Sema4f)</i>
AB027143	0.000193	0.605	<i>CDCrelA</i>
U32679	0.000427	0.560	<i>Placental lactogen-I variant</i>
X99773	0.000598	0.622	<i>Serpin, ZG-46p</i>
Channels/Transporters			
X57523	1.170E-06	1.870	<i>Mtp1</i> <i>Solute carrier family 12, member 1 (Slc12a1)</i>
NM_019134	0.000116	0.606	<i>Gap junction membrane channel protein alpha 4 (Gja4)</i>
NM_021654	0.001177	0.696	<i>X,K-ATPase beta-m subunit (ATP1B4)</i>
AF158385	0.001398	1.465	
Cytoskeleton/Extracellular Matrix			
V01224	4.810E-06	2.441	<i>Alpha actin</i>
U61772	0.000380	0.690	<i>Merlin (NF2)</i>
GTPases and related			
NM_017192	0.000555	0.586	<i>G-protein coupled receptor 13 (Gpcr13)</i>
AF010293	0.000741	0.487	<i>Olfactory receptor (U131)</i>
X55812	0.001966	1.685	<i>SKR6 gene, a CB1 cannabinoid receptor</i>
Inflammation/Immunology			
Z49762	0.000250	1.525	<i>RT1.Mb</i> <i>Carcinoembryonic antigen-related cell adhesion molecule 3 (Ceacam3)</i>
NM_012702	0.000516	0.604	<i>Intracellular calcium-binding protein (MRP14)</i>
L18948	0.000571	1.404	
Kinases and related			
AF327838	0.000101	0.510	<i>Phosphodiesterase 1A</i>
M26715	0.001989	2.276	<i>cAMP phosphodiesterase</i>
Metabolism/Redox			
Z18877	2.750E-07	2.164	<i>2'5' oligoadenylate synthetase</i>
M11814	4.170E-05	0.716	<i>Uncoupling protein 1</i>
NM_017156	0.000494	0.345	<i>Cytochrome P450, 2b19 (Cyp2b15)</i>
NM_017013	0.000533	0.609	<i>(Gsta2)</i>
D88672	0.000611	0.593	<i>Phospholipase D</i>
NM_012692	0.000694	0.620	<i>Cytochrome P450 IIA1 (Cyp2a1)</i>
NM_012693	0.001086	0.626	<i>Cytochrome P450 IIA2 (Cyp2a2)</i>

NM_019239	0.001229	0.664	<i>Mannoside acetyl glucosaminyl transferase 3 (Mgat3)</i>
AF111160	0.001492	1.497	<i>Glutathione S-transferase A3 subunit (GSTA3)</i>
Receptors			
AF065438	1.920E-05	1.864	<i>Mama</i>
Trafficking and Transport			
U20283	0.001195	0.607	<i>Syntaxin binding protein Munc18-2</i>
AF009603	0.001734	0.706	<i>SH3p4</i>
Transcription			
U56732	2.450E-06	0.703	<i>KRAB/zinc finger suppressor protein 1 (KSI)</i>
AF072439	0.001139	0.555	<i>Zinc-finger protein-37</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 .