

Suppl. Tab. 1. List of TaqMan Probes used in the study.

Targets	Probes ID
<i>Ctnnb1</i>	Mm00483039
<i>Gapdh</i>	Mm99999915
<i>Mki67</i>	Mm01278617
<i>Mgmt</i>	Mm00485014

Suppl. Tab. 2. List of qPCR SYBR primer sequences used in the study.

Primers	Sequences
Cd11c F	TCTTCTGCTGTTGGGGTTTG
Cd11c R	CAGTTGCCTGTGTGATAGCC
Cd4 F	TCTGGCAACCTGACTCTGAC
Cd4 R	TCATCACCACCAGGTTCACT
Cd8 F	CAGAGACCAGAAGATTGTCTG
Cd8 R	TGATCAAGGACAGCAGAAGG
Cd3 F	ATGCGGTGGAACACTTTCTGG
Cd3 R	GCACGTCAACTCTACACTGGT
Foxp3 F	GGCCCTTCTCCAGGACAGA
Foxp3 R	GCTGATCATGGCTGGGTTGT
Mcpt1 F	TTCCAGGTCTGTGTGGGAAG
Mcpt1 R	TCCAGGGCACATATGCAGAG
Mcpt4 F	TCACCACTGAGAGAGGGTTCA
Mcpt4 R	CATGAGCTCCAAGGGTGACA
Mcpt6 F	ACGTTGCCCTGCTGGAGCTT
Mcpt6 R	CAGCACGATGTCCCTGGGGG
Gapdh F	TGGTGAAGGTCCGGTGTGAAC
Gapdh R	GACAAGCTTCCCATTCTCGG

Suppl. Tab. 3. List of primary antibodies used in the study.

Antibodies	ID	Concentration
Cd8	Ab203035	1:150
Cd3	Ab5690	1:500
GAPDH	Ab181602	1:10000
Mki67	Ab16667	1:150
Triptase	Ab2378	1:150
γ H2AX	Ab81299	1:5000
CD45-FITC	11-0451-82	1:250
Cd45-APC	561873	1:250
CD45-BV421	103133	1:300
CD117-PE-Cy7	55863	1:250
Fc ϵ RI-PE	134307	1:250
CD8a-PE	553032	1:300
CD3-FITC	557354	1:250
CD4-FITC	100405	1:300
Foxp3-APC	77-5775-40	1:300

Suppl. Tab. 4. Significantly altered genes by MC deficiency in sCRC lesions. Data were obtained by RNA-seq.

Name	Acronym	log2FC	p-Adj	p-Value
Upregulated genes				
Chemokine (C-X-C motif) ligand 2	<i>Cxcl2</i>	2.91762	5.50E-05	1.20E-07
Interleukin 6	<i>Il6</i>	2.76768	6.93E-03	2.88E-04
Chemokine (C-X-C motif) ligand 1	<i>Cxcl1</i>	2.41013	2.15E-03	3.29E-05
Colony stimulating factor 2	<i>Csf2</i>	2.39663	2.15E-03	3.16E-05
Interleukin 1 α	<i>Il1a</i>	2.32562	1.70E-03	1.67E-05
Chemokine (C-X-C motif) ligand 3	<i>Cxcl3</i>	2.17899	3.52E-03	1.04E-04
Formyl peptide receptor 1	<i>Fpr1</i>	2.13251	3.99E-04	2.18E-06
Chemokine (C-C motif) ligand 4	<i>Ccl4</i>	2.1307	4.82E-03	1.57E-04
Interleukin 17A	<i>Il17a</i>	2.11911	1.90E-02	1.12E-03
Interleukin 1 β	<i>Il1b</i>	2.107	4.82E-03	1.58E-04
Chemokine (C-C motif) ligand 3	<i>Ccl3</i>	1.89559	1.13E-02	5.05E-04
Nitric oxide synthase 2, inducible	<i>Nos2</i>	1.73595	1.70E-03	1.51E-05
Chemokine (C-C motif) receptor 10	<i>Ccr10</i>	1.68575	2.81E-02	2.25E-03
Chemokine (C-X-C motif) receptor 2	<i>Cxcr2</i>	1.6386	1.13E-03	7.43E-06
Histidine decarboxylase	<i>Hdc</i>	1.59195	3.94E-04	1.72E-06
Regulator of G-protein signaling 16	<i>Rgs16</i>	1.54682	2.90E-03	6.99E-05
Chitinase-like 1	<i>Chil1</i>	1.50777	3.08E-03	8.43E-05
G0/G1 switch gene 2	<i>G0s2</i>	1.49325	2.94E-02	2.41E-03
Tumor necrosis factor receptor superfamily, member 9	<i>Tnfrsf9</i>	1.47377	3.63E-02	3.01E-03
Arginase 2	<i>Arg2</i>	1.38296	2.15E-03	2.75E-05
Formyl peptide receptor 2	<i>Fpr2</i>	1.38215	1.22E-02	6.10E-04
Tumor necrosis factor (ligand) superfamily, member 9	<i>Tnfsf9</i>	1.33416	6.27E-03	2.54E-04
Interleukin 33	<i>Il33</i>	1.29891	5.47E-03	2.05E-04
CD80 antigen	<i>Cd80</i>	1.25429	1.97E-02	1.19E-03
Selectin, platelet	<i>Selp</i>	1.2436	2.66E-03	5.53E-05
Granzyme B	<i>Gzmb</i>	1.10501	5.47E-03	2.15E-04
Inositol polyphosphate-4-phosphatase, type II	<i>Inpp4b</i>	1.04564	2.68E-02	2.09E-03
Serine hydroxymethylTransferase 2 (mitochondrial)	<i>Shmt2</i>	0.97879	3.63E-04	1.19E-06
Nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, α	<i>Nfkbia</i>	0.96189	1.70E-03	1.39E-05
CD14 antigen	<i>Cd14</i>	0.87987	2.19E-03	3.82E-05
Helicase, lymphoid specific	<i>Hells</i>	0.87468	2.19E-03	4.01E-05
Cell division cycle 7	<i>Cdc7</i>	0.83777	2.05E-02	1.31E-03

Tumor necrosis factor receptor superfamily, member 1b	<i>Tnfrsf1b</i>	0.71521	2.02E-03	2.20E-05
Serine/arginine-rich splicing factor 7	<i>Srsf7</i>	0.71185	5.47E-03	2.09E-04
BORA Aurora Kinase A Activator	<i>Bora</i>	0.69255	2.40E-02	1.73E-03
Activating transcription factor 4	<i>Atf4</i>	0.68931	2.12E-02	1.41E-03
Dystrobrevin, beta	<i>Dtnb</i>	0.65154	3.81E-02	3.25E-03
Regulatory factor X-associated protein	<i>Rfxap</i>	0.56539	4.28E-02	3.74E-03
Sphingomyelin synthase 1	<i>Sgms1</i>	0.46723	2.99E-03	7.83E-05
DEAD (Asp-Glu-Ala-Asp) box polypeptide 17	<i>Ddx17</i>	0.43006	2.29E-02	1.58E-03
Downregulated genes				
Serine (or cysteine) peptidase inhibitor, clade A, member 1D	<i>Serpina1d</i>	-5.0011	1.22E-02	6.16E-04
Somatostatin receptor 3	<i>Sstr3</i>	-4.0509	7.35E-03	3.14E-04
Carboxypeptidase A3, mast cell	<i>Cpa3</i>	-3.6243	2.15E-03	3.08E-05
Chromogranin B	<i>Chgb</i>	-2.3208	4.90E-03	1.66E-04
Endothelin 2	<i>Edn2</i>	-2.1053	1.14E-02	5.22E-04
Monoamine oxidase B	<i>Maob</i>	-2.0844	1.97E-02	1.21E-03
Collagen, type VIII, alpha 2	<i>Col8a2</i>	-1.9191	4.87E-02	4.38E-03
Carcinoembryonic antigen-related cell adhesion molecule 13	<i>Ceacam13</i>	-1.9147	1.14E-02	5.49E-04
RAR-related orphan receptor gamma	<i>Rorc</i>	-1.9034	1.14E-02	5.49E-04
Vitamin D receptor	<i>Vdr</i>	-1.8635	2.40E-02	1.72E-03
Chemokine (C motif) ligand 1	<i>Xcl1</i>	-1.8057	5.47E-03	2.08E-04
Solute carrier family 24 (sodium/potassium/calcium exchanger), member 3	<i>Slc24a3</i>	-1.7958	1.37E-02	7.17E-04
Hydroxyprostaglandin dehydrogenase 15 (NAD)	<i>Hpgd</i>	-1.7713	2.05E-02	1.35E-03
Kit oncogene	<i>Kit</i>	-1.6707	5.47E-03	2.11E-04
Fibroblast growth factor 18	<i>Fgf18</i>	-1.6239	3.35E-03	9.53E-05
RAB38, member RAS oncogene family	<i>Rab38</i>	-1.4745	2.05E-02	1.34E-03
Myosin XVB	<i>Myo15b</i>	-1.4343	2.68E-02	2.07E-03
MHC I like leukocyte 2	<i>Mill2</i>	-1.4073	2.58E-02	1.92E-03
SH3 domain and tetratricopeptide repeats 1	<i>Sh3tc1</i>	-1.3104	1.38E-02	7.41E-04
Glucosaminyl (N-acetyl) transferase 1, core 2	<i>Gcnt1</i>	-1.1739	4.10E-02	3.54E-03
Myocyte enhancer factor 2C	<i>Mef2c</i>	-1.1546	3.68E-03	1.13E-04
Melanophilin	<i>Mlph</i>	-1.1311	2.58E-02	1.89E-03
KN motif and ankyrin repeat domains 2	<i>Kank2</i>	-1.0783	1.38E-02	7.55E-04

Prostaglandin-endoperoxide synthase 1	<i>Ptgs1</i>	-1.0425	1.71E-02	9.74E-04
Inositol polyphosphate-4-phosphatase, type II	<i>Inpp4b</i>	-1.0258	2.84E-03	6.53E-05
Epithelial membrane protein 1	<i>Emp1</i>	-0.9828	1.26E-02	6.50E-04
Erb-b2 receptor tyrosine kinase 2	<i>ErbB2</i>	-0.9277	2.99E-03	7.84E-05
Interleukin 15	<i>Il15</i>	-0.8982	3.80E-02	3.21E-03
Avian musculoaponeurotic fibrosarcoma oncogene homolog	<i>Kank2</i>	-0.888	2.81E-02	2.27E-03
RNA binding motif protein 3	<i>Rbm3</i>	-0.8148	4.50E-02	3.99E-03
Zinc finger E-box binding homeobox 1	<i>Zeb1</i>	-0.8086	2.19E-03	4.21E-05
ATPase Phospholipid Transporting 9A (Putative)	<i>Atp9a</i>	-0.7628	1.88E-02	1.09E-03
Serine (or cysteine) peptidase inhibitor, clade B, member 6a	<i>Serpinb6a</i>	-0.7483	2.19E-02	1.48E-03
Cathepsin S	<i>Ctss</i>	-0.7402	4.87E-02	4.42E-03
Glypican 4	<i>Gpc4</i>	-0.7059	2.03E-05	2.22E-08
Forkhead box N3	<i>Foxn3</i>	-0.6665	2.19E-03	4.31E-05
Sphingomyelin phosphodiesterase 3, neutral	<i>Smpd3</i>	-0.6579	2.68E-02	2.10E-03
Proteasome (prosome, macropain) 26S subunit, non-ATPase, 11	<i>Psmc11</i>	-0.6125	2.75E-03	6.02E-05
Nuclear mitotic apparatus protein 1	<i>Numa1</i>	-0.5496	1.71E-02	9.65E-04
Catalase	<i>Cat</i>	-0.5231	1.13E-02	5.07E-04
Protein phosphatase 1, regulatory (inhibitor) subunit 2	<i>Ppp1r2</i>	-0.5019	2.68E-02	2.11E-03
von Willebrand factor A domain containing 5A	<i>Vwa5a</i>	-0.4409	1.97E-02	1.23E-03
Inhibitor of kappaB kinase γ	<i>Ikbkγ</i>	-0.4047	2.29E-02	1.60E-03

According to their log₂FC values, genes are shown in descending order.

Suppl. Tab. 5: Pathways significantly altered by MC deficiency in sCRC lesions. Data were obtained by RNA-seq and analysed on DAVID (Bioinformatic Database).

Pathway	Status	p-Value	Genes
Cytokine-cytokine receptor interaction	Upregulated	9,80E-11	<i>Ccl3, Ccl4, Ccr10, Cxcl1, Cxcl2, Cxcr2, Csf2, Il1a, Il1b, Il17a, Il6, Tnfsf9, Tnfrsf1b, Tnfrsf9</i>
	Downregulated	9,80E-11	<i>Xcl1, Il15</i>
TNF signaling	Upregulated	4,40E-09	<i>Atf4; Cxcl1, Cxcl2, Cxcl3, Csf2, Il1b, Il6, Nfkbia, Tnfrsf1b</i>
	Downregulated	4,40E-09	<i>Ikkbg, Il15</i>
Toll-like receptor signaling	Upregulated	7,50E-06	<i>Cd14, Cd80, Ccl3, Ccl4, Il1b, Il6, Nfkbia</i>
	Downregulated	7,50E-06	<i>Ikkbg</i>
Chemokine signaling	Upregulated	1,00E-05	<i>Ccl3, Ccl4, Ccr10, Cxcl1, Cxcl2, Cxcl3, Cxcr2, Nfkbia</i>
	Downregulated	1,00E-05	<i>Ikkbg, Xcl1</i>
NOD-like receptor signaling	Upregulated	5,40E-05	<i>Cxcl1, Cxcl2, Il1b, Il6, Nfkbia</i>
	Downregulated	5,40E-05	<i>Ikkbg</i>
Inflammatory bowel disease (IBD)	Upregulated	6,30E-05	<i>Il1a, Il1b, Il17a, Il6</i>
Cytosolic DNA-sensing	Upregulated	9,40E-05	<i>Ccl4, Il1b, Il33, Il6, Nfkbia</i>
	Downregulated	9,40E-05	<i>Ikkbg</i>
Transcriptional dysregulation in cancer	Upregulated	1,20E-03	<i>Cd14, Csf2, Gzmb, Il6</i>
	Downregulated	1,20E-03	<i>Maf, Hpgd, Mef2c</i>
Intestinal immune network for IgA production	Upregulated	3,40E-03	<i>Cd80, Ccr10, Il15, Il6</i>
NF- κ B signaling	Upregulated	5,30E-03	<i>Cd14, Ccl4, Il1b, Nfkbia</i>

Acronyms meaning is given in Suppl. Tab. 4.

Suppl. Tab. 6. Significantly altered genes by MC deficiency in early colon tumorigenic lesions. Data were obtained by RNA-seq.

Name	Acronym	log2FC	p-Adj	p-Value
Upregulated genes				
Chemokine (C-X-C motif) ligand 5	<i>Cxcl5</i>	3.22413	1.82E-02	1.62E-03
Chemokine (C-X-C motif) ligand 13	<i>Cxcl13</i>	2.58874	2.24E-06	4.79E-08
Chemokine (C-X-C motif) receptor 5	<i>Cxcr5</i>	2.51089	2.29E-06	5.14E-08
Z-DNA binding protein 1	<i>Zbp1</i>	2.1316	3.00E-04	1.11E-05
Interferon-induced protein with tetratricopeptide repeats 3	<i>Ifit3</i>	1.76255	6.40E-03	4.42E-04
Interleukin 18	<i>Il18</i>	1.52986	4.68E-03	3.00E-04
Chemokine (C-C motif) receptor 6	<i>Ccr6</i>	1.37639	1.35E-03	6.35E-05
Epithelial membrane protein 1	<i>Emp1</i>	1.28044	7.14E-06	1.77E-07
Histocompatibility 2, class II antigen A, β 1	<i>H2-Ab1</i>	1.23486	3.00E-04	1.11E-05
Interleukin 21 receptor	<i>Il21r</i>	1.21134	5.61E-04	2.27E-05
Tumor necrosis factor receptor superfamily, member 10b	<i>Tnfrsf10b</i>	1.19788	1.50E-02	1.28E-03
Nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, α	<i>Nfkbia</i>	1.1736	8.73E-04	3.81E-05
Guanylate binding protein 2b	<i>Gbp2b</i>	1.15584	1.28E-02	1.03E-03
Anti-Mullerian hormone type 2 receptor	<i>Amhr2</i>	1.08817	8.73E-04	3.82E-05
Selectin, platelet (p-selectin) ligand	<i>Selplg</i>	1.02693	3.21E-02	3.35E-03
Mucosal vascular addressin cell adhesion molecule 1	<i>Madcam1</i>	1.01299	4.93E-03	3.21E-04
TRAF3 interacting protein 3	<i>Traf3ip3</i>	0.93662	1.10E-02	8.53E-04
Cytidine deaminase	<i>Cda</i>	0.9289	6.94E-03	4.99E-04
2'-5' oligoadenylate synthetase 1A	<i>Oas1a</i>	0.87346	2.94E-05	8.59E-07
Histocompatibility 2, class II antigen E β 2	<i>H2-Eb2</i>	0.83882	1.43E-02	1.21E-03
Chemokine (C-C motif) ligand 19	<i>Ccl19</i>	0.80013	1.84E-03	9.30E-05

Histocompatibility 2, class II antigen A, α	<i>H2-Aa</i>	0.70998	8.82E-03	6.54E-04
Lymphotoxin B	<i>Ltb</i>	0.70568	2.76E-02	2.76E-03
RAB27A, member RAS oncogene family	<i>Rab27a</i>	0.69102	2.03E-02	1.89E-03
Guanylate binding protein 2	<i>Gbp2</i>	0.65227	2.63E-02	2.58E-03
Endothelin 1	<i>Edn1</i>	0.6305	2.63E-03	1.54E-04
Transmembrane and immunoglobulin domain containing 1	<i>Tmigd1</i>	0.62949	2.04E-03	1.08E-04
Interferon regulatory factor 7	<i>Irf7</i>	0.61944	1.94E-03	1.00E-04
Heparan sulfate (glucosamine) 3-O-sulfotransferase 3B1	<i>Hs3st3b1</i>	0.56872	9.59E-03	7.22E-04
SMAD family member 3	<i>Smad3</i>	0.53498	2.51E-02	2.42E-03
Nuclear antigen Sp100	<i>Sp100</i>	0.48685	4.98E-02	5.66E-03
Downregulated genes				
Complement receptor 2	<i>Cr2</i>	-5.2193	4.19E-02	4.57E-03
Metallothionein 2	<i>Mt2</i>	-4.0879	9.89E-06	2.56E-07
Chemokine (C-C motif) ligand 2	<i>Ccl2</i>	-3.6923	2.63E-03	1.53E-04
CD2 antigen	<i>Cd2</i>	-3.4363	6.10E-08	1.10E-09
Phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma)	<i>Pla2g7</i>	-3.2754	8.39E-09	1.32E-10
Cytochrome b-245, beta polypeptide	<i>Cybb</i>	-3.2693	3.25E-06	7.67E-08
2'-5' oligoadenylate synthetase 3	<i>Oas3</i>	-3.2321	2.98E-43	3.35E-46
Histocompatibility 2, M region locus 3	<i>H2-M3</i>	-3.1173	1.28E-09	1.44E-11
Tumor necrosis factor	<i>Tnf</i>	-3.0967	2.07E-38	4.66E-41
Carcinoembryonic antigen-related cell adhesion molecule 13	<i>Ceacam13</i>	-3.0565	7.45E-13	5.02E-15
Bone marrow stromal cell antigen 1	<i>Bst1</i>	-3.0226	3.00E-04	1.08E-05
CD48 antigen	<i>Cd48</i>	-2.9478	2.17E-07	4.15E-09
2'-5' oligoadenylate synthetase-like 1	<i>Oasl1</i>	-2.9434	2.68E-37	9.03E-40

Chemokine (C-X-C motif) ligand 1	<i>Cxcl1</i>	-2.9432	8.20E-05	2.58E-06
SMAD family member 2	<i>Smad2</i>	-2.5089	4.98E-02	5.73E-03
Histone cluster 1, H1c	<i>Hist1h1c</i>	-2.4994	1.96E-12	1.54E-14
Chemokine (C-X-C motif) ligand 2	<i>Cxcl2</i>	-2.4367	1.95E-09	2.85E-11
Fucosyltransferase 4	<i>Fut4</i>	-2.4197	8.04E-11	7.23E-13
CD177 antigen	<i>Cd177</i>	-2.3846	4.40E-03	2.72E-04
Carbonic anhydrase 4	<i>Car4</i>	-2.3158	1.39E-03	6.86E-05
B lymphoid kinase	<i>Blk</i>	-2.1328	1.23E-05	3.32E-07
Lymphocyte antigen 75	<i>Ly75</i>	-2.0604	8.95E-04	4.12E-05
Histocompatibility 2, T region locus 24	<i>H2-T24</i>	-2.0561	1.29E-02	1.07E-03
CD74 antigen	<i>Cd74</i>	-1.9534	5.91E-04	2.46E-05
T cell receptor associated transmembrane adaptor 1	<i>Trat1</i>	-1.9484	3.03E-02	3.07E-03
Carboxypeptidase A3, mast cell	<i>Cpa3</i>	-1.8726	1.90E-02	1.73E-03
Kit oncogene	<i>Kit</i>	-1.8279	2.24E-13	1.26E-15
Lymphocyte transmembrane adaptor 1	<i>Lax1</i>	-1.8135	3.12E-02	3.19E-03
Kynureninase (L-kynurenine hydrolase)	<i>Kynu</i>	-1.7685	1.34E-09	1.81E-11
Interferon induced transmembrane protein 3	<i>Ifitm3</i>	-1.7126	6.18E-05	1.87E-06
Interferon regulatory factor 1	<i>Irf1</i>	-1.7119	2.69E-02	2.66E-03
CD22 antigen	<i>Cd22</i>	-1.6939	1.26E-02	1.00E-03
B and T lymphocyte associated	<i>Btla</i>	-1.6385	9.68E-10	9.78E-12
CD69 antigen	<i>Cd69</i>	-1.6102	1.48E-05	4.15E-07
Malic enzyme 1, NADP(+)-dependent, cytosolic	<i>Me1</i>	-1.5944	1.90E-02	1.71E-03
DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	<i>Ddx58</i>	-1.5393	2.30E-03	1.27E-04
Beta-2 microglobulin	<i>B2m</i>	-1.5158	4.51E-03	2.84E-04
Spi-B transcription factor (Spi-1/PU.1 related)	<i>Spib</i>	-1.4302	1.34E-09	1.69E-11

Glypican 4	<i>Gpc4</i>	-1.4035	4.95E-02	5.56E-03
CD52 antigen	<i>Cd52</i>	-1.3942	5.39E-03	3.58E-04
2'-5' oligoadenylate synthetase 1G	<i>Oas1g</i>	-1.3506	4.18E-04	1.64E-05
Three prime repair exonuclease 1	<i>Trex1</i>	-1.3436	2.29E-03	1.23E-04
Optineurin	<i>Optn</i>	-1.3247	1.25E-08	2.11E-10
Apolipoprotein D	<i>Apod</i>	-1.2874	6.43E-03	4.55E-04
Myocyte enhancer factor 2C	<i>Mef2c</i>	-1.2523	1.53E-04	5.00E-06
Lectin, galactose binding, soluble 9	<i>Lgals9</i>	-1.2305	1.06E-02	8.10E-04
2'-5' oligoadenylate synthetase 1B	<i>Oas1b</i>	-1.2252	3.00E-03	1.79E-04
Signal transducer and activator of transcription 3	<i>Stat3</i>	-1.2118	3.33E-02	3.52E-03
DnaJ heat shock protein family (Hsp40) member B1	<i>Dnajb1</i>	-1.1764	3.00E-04	1.08E-05
LPS-responsive beige-like anchor	<i>Lrba</i>	-1.1744	8.80E-04	3.95E-05
Myelin and lymphocyte protein, T cell differentiation protein	<i>Mal</i>	-1.1117	4.98E-02	5.76E-03
Immunoglobulin kappa constant	<i>Igkc</i>	-1.1016	2.44E-03	1.37E-04
Interferon Induced Transmembrane Protein 3	<i>Ifitm3</i>	-1.1015	2.44E-03	1.37E-04
Serine (or cysteine) preptidase inhibitor, clade A, member 1B	<i>Serpina1b</i>	-0.9767	1.92E-02	1.77E-03
Acid phosphatase, prostate	<i>Acpp</i>	-0.9537	4.04E-04	1.54E-05
Membrane-spanning 4-domains, subfamily A, member 1	<i>Ms4a1</i>	-0.9392	3.14E-02	3.24E-03
B cell scaffold protein with ankyrin repeats 1	<i>Bank1</i>	-0.8961	5.07E-07	1.03E-08
Indoleamine 2,3-dioxygenase 1	<i>Ido1</i>	-0.8774	1.63E-02	1.43E-03
2'-5' oligoadenylate synthetase 2	<i>Oas2</i>	-0.8606	2.10E-02	1.99E-03
Protein tyrosine phosphatase, receptor type, C	<i>Ptprc</i>	-0.8081	1.63E-02	1.43E-03
Transient receptor potential cation channel, subfamily V, member 6	<i>Trpv6</i>	-0.7858	6.26E-03	4.22E-04
IKAROS family zinc finger 2	<i>Ikzf2</i>	-0.7351	6.40E-03	4.46E-04
Histocompatibility 2, O region alpha locus	<i>H2-Oa</i>	-0.6812	1.28E-02	1.05E-03

Carcinoembryonic antigen-related cell adhesion molecule 12	<i>Ceacam12</i>	-0.6733	4.92E-02	5.48E-03
Zinc and ring finger 1	<i>Znrf1</i>	-0.6444	3.93E-02	4.24E-03
Regulator of G-protein signaling 16	<i>Rgs16</i>	-0.6152	7.96E-03	5.82E-04
Paired box 5	<i>Pax5</i>	-0.5946	2.49E-02	2.38E-03
CD19 antigen	<i>Cd19</i>	-0.5853	3.25E-03	1.97E-04
Bone marrow stromal cell antigen 2	<i>Bst2</i>	-1.582	4.19E-02	4.61E-03
CD72 antigen	<i>Cd72</i>	-1.565	1.11E-02	8.72E-04
Lysophosphatidylcholine acyltransferase 4	<i>Lpcat4</i>	-1.355	2.42E-15	1.09E-17
Protein tyrosine phosphatase, receptor type, J	<i>Ptprj</i>	-1.196	1.37E-03	6.61E-05

Genes are shown in descending order (log₂FC values).

Suppl. Tab. 7: Pathways significantly altered by MC deficiency in sCRC preneoplastic lesions. Data were obtained by RNA-seq and analysed on DAVID (Bioinformatic Database).

Pathway	Status	p-Value	Genes
Inflammatory bowel disease (IBD)	Upregulated	3.40E-08	<i>Smad3, H2-Aa, H2-Ab1, Il18, Il21r</i>
	Downregulated	3.40E-08	<i>Smad2, H2-Oa, Stat3, Tnf</i>
Cytokine-cytokine receptor interaction	Upregulated	1.20E-07	<i>Amhr2, Ccl19, Ccr6, Cxcl13, Cxcl5, Cxcr5, Il18, Il21r, Ltb, Tnfrsf10b</i>
	Downregulated	1.20E-07	<i>Ccl2, Cxcl1, Cxcl2, Tnf</i>
Antigen processing and presentation	Upregulated	6.30E-06	<i>H2-Aa, H2-Ab1</i>
	Downregulated	6.30E-06	<i>Cd74, B2m, H2-M3, H2-Oa, H2-T24, Tnf</i>
Cell adhesion molecules (CAMs)	Upregulated	9.80E-06	<i>H2-Aa, H2-Ab1, Madcam1, Selplg</i>
	Downregulated	9.80E-06	<i>Cd2, Cd22, H2-M3, H2-Oa, H2-T24, Ptprc</i>
Chemokine signaling pathway	Upregulated	4.50E-05	<i>Ccl19, Ccr6, Cxcl13, Cxcl5, Cxcr5, Nfbia</i>
	Downregulated	4.50E-05	<i>Ccl2, Cxcl1, Cxcl2, Stat3</i>
NOD-like receptor signaling pathway	Downregulated	1.30E-04	<i>Ccl2, Cxcl1, Cxcl2, Tnf</i>
Cytosolic DNA-sensing pathway	Upregulated	2.20E-04	<i>Zbp1, Irf7, Il18, Nfbia</i>
	Downregulated	2.20E-04	<i>Ddx58, Trex1</i>
TNF signaling	Downregulated	2.50E-03	<i>Ccl2, Cxcl1, Cxcl2, Tnf</i>
B cell receptor signaling	Downregulated	3.10E-03	<i>Cd19, Cd22, Cd72, Cr2</i>
TGF-beta signaling	Upregulated	3.80E-02	<i>Smad3, Amhr2</i>
	Downregulated	3.80E-02	<i>Smad2, Tnf</i>

Acronyms meaning is given in Suppl. Tab. 6.

Suppl. Tab. 8. Mast cells are drugable targets altering the development of early colon tumorigenic events (AOM vs AOM+CA). Data were obtained by RNA-seq.

Name	Acronym	log ₂ F C	p-Adj	p-Value
Upregulated genes				
ATP-binding cassette, sub-family G (WHITE), member 2	<i>Abcg2</i>	0.9441 8	1.38E- 03	1.15E-05
CDC14 cell division cycle 14A	<i>Cdc14a</i>	0.6245	7.49E- 03	1.34E-04
Frizzled class receptor 2	<i>Fzd2</i>	0.5464 4	4.26E- 02	1.87E-03
Caspase 1	<i>Casp1</i>	0.4698 8	4.26E- 02	1.77E-03
Abhydrolase domain containing 2	<i>Abhd2</i>	0.4607 6	4.64E- 02	2.10E-03
Nedd4 family interacting protein 1	<i>Ndfip1</i>	0.4589 7	1.95E- 02	5.34E-04
Chemokine (C-X-C motif) ligand 12	<i>Cxcl12</i>	0.4473 5	2.23E- 02	7.68E-04
Downregulated genes				
Chemokine (C-C motif) ligand 19	<i>Ccl19</i>	-3.5472	6.04E- 04	3.59E-06
Interleukin 13	<i>Il13</i>	-3.4608	4.91E- 02	2.40E-03
T cell receptor associated transmembrane adaptor 1	<i>Trat1</i>	-2.8763	2.23E- 02	7.54E-04
Membrane-spanning subfamily A, member 1	<i>Ms4a1</i>	-2.3658	4.91E- 02	2.34E-03
Complement receptor 2	<i>Cr2</i>	-2.3086	4.90E- 03	7.57E-05
CD19 antigen	<i>Cd19</i>	-1.9972	1.29E- 03	9.18E-06
Carcinoembryonic antigen-related cell adhesion molecule 12	<i>Ceacam12</i>	-1.9074	1.53E- 02	3.81E-04
Chemokine (C-X-C motif) ligand 5	<i>Cxcl5</i>	-1.794	8.22E- 03	1.63E-04
Nitric oxide synthase 2, inducible	<i>Nos2</i>	-1.7376	4.26E- 02	1.83E-03
Ubiquitin D	<i>Ubd</i>	-1.5843	3.95E- 04	1.88E-06
CD22 antigen	<i>Cd22</i>	-1.5688	2.08E- 02	5.93E-04
Dual specificity phosphatase 2	<i>Dusp2</i>	-1.5562	4.90E- 03	7.42E-05
Granzyme A	<i>Gzma</i>	-1.5448	1.12E- 02	2.40E-04
Suppressor of cytokine signaling 1	<i>Socs1</i>	-1.4443	1.38E- 02	3.21E-04

Spi-B transcription factor	<i>Spib</i>	-1.4357	2.23E-02	7.69E-04
Chemokine (C-C motif) receptor 6	<i>Ccr6</i>	-1.3625	4.71E-02	2.19E-03
Zeta-chain associated protein kinase	<i>Zap70</i>	-1.1181	2.25E-02	8.01E-04
CD72 antigen	<i>Cd72</i>	-1.0918	3.63E-02	1.38E-03
Serine peptidase inhibitor, clade A, member 3N	<i>Serpina3n</i>	-1.0806	1.38E-02	3.27E-04
Proteasome subunit, beta type 9	<i>Psmb9</i>	-1.0404	1.91E-06	2.27E-09
Chemokine (C-C motif) ligand 5	<i>Ccl5</i>	-1.0292	1.58E-04	5.63E-07
Z-DNA binding protein 1	<i>Zbp1</i>	-0.964	3.60E-03	4.70E-05
Natural killer cell group 7 sequence	<i>Nkg7</i>	-0.8674	2.32E-03	2.21E-05
Transporter 1, ATP-binding cassette, sub-family B	<i>Tap1</i>	-0.8594	8.22E-03	1.66E-04
CD74 antigen	<i>Cd74</i>	-0.7109	4.47E-05	1.06E-07
Centromere protein F	<i>Cenpf</i>	-0.705	1.64E-02	4.28E-04
Histocompatibility 2, class II antigen A, β 1	<i>H2-Ab1</i>	-0.7036	6.03E-03	1.00E-04
Antigen identified by monoclonal antibody Ki 67	<i>Mki67</i>	-0.6661	2.39E-02	8.81E-04
Baculoviral IAP repeat-containing 5	<i>Birc5</i>	-0.6435	2.23E-02	7.02E-04
Histocompatibility 2, Q region locus 4	<i>H2-Q4</i>	-0.624	2.22E-02	6.60E-04
Histocompatibility 2, class II antigen A, α	<i>H2-Aa</i>	-0.5918	2.86E-03	3.40E-05
Histocompatibility 2, class II antigen E β	<i>H2-Eb1</i>	-0.5903	2.86E-03	3.20E-05
Histocompatibility 2, M region locus 3	<i>H2-M3</i>	-0.5693	3.97E-02	1.56E-03
Proteasome subunit, beta type 10	<i>Psmb10</i>	-0.4267	3.99E-02	1.61E-03

According to their log₂FC values, genes are shown in descending order.

Suppl. Tab. 9. Mast cells are drugable targets altering the development of early tumorigenic events in the colon (AOM vs AOM → CA). Data were obtained by RNA-seq.

Name	Acronym	log2FC	p-Adj	p-Value
Upregulated genes				
γ-glutamyltransferase 1	<i>Ggt1</i>	2.69378	4.80E-02	2.10E-03
Chemokine (C-C motif) ligand 3	<i>Ccl3</i>	1.53774	4.76E-02	2.00E-03
Leucine rich repeat containing 32	<i>Lrrc32</i>	1.29369	2.59E-02	6.35E-04
CD36 antigen	<i>Cd36</i>	1.083	2.87E-02	7.37E-04
Interleukin 15	<i>Il15</i>	1.04341	4.90E-02	2.23E-03
Hairy/enhancer-of-split related with YRPW motif 1	<i>Hey1</i>	1.00961	4.76E-02	1.96E-03
Alanyl (membrane) aminopeptidase	<i>Anpep</i>	0.83758	3.15E-02	1.06E-03
Spondin 2, extracellular matrix protein	<i>Spon2</i>	0.80936	1.41E-02	1.97E-04
Cysteine-rich secretory protein LCCL domain containing 2	<i>Crispld2</i>	0.7985	2.38E-02	4.99E-04
CD34 antigen	<i>Cd34</i>	0.79222	1.23E-02	1.20E-04
Collagen, type III, alpha 1	<i>Col3a1</i>	0.61973	2.10E-02	3.91E-04
Frizzled class receptor 2	<i>Fzd2</i>	0.6149	2.16E-02	4.28E-04
Vascular endothelial growth factor C	<i>Vegfc</i>	0.59837	4.80E-02	2.13E-03
Acid phosphatase, prostate	<i>Acpp</i>	0.59654	4.44E-02	1.76E-03
Insulin-like growth factor binding protein 5	<i>Igfbp5</i>	0.56027	3.11E-02	9.31E-04
Chemokine (C-X-C motif) ligand 12	<i>Cxcl12</i>	0.54604	6.64E-03	3.87E-05
CDC14 cell division cycle 14A	<i>Cdc14a</i>	0.536	3.11E-02	9.68E-04
Downregulated genes				
Chemokine (C-C motif) ligand 19	<i>Ccl19</i>	-4.111	4.56E-05	5.32E-08
T cell receptor associated transmembrane adaptor 1	<i>Trat1</i>	-3.2211	1.23E-02	1.58E-04
Cochlin	<i>Coch</i>	-3.1581	4.44E-02	1.74E-03
Carcinoembryonic antigen-related cell adhesion molecule 12	<i>Ceacam12</i>	-2.6061	2.15E-04	7.51E-07

Membrane-spanning 4-domains, subfamily A, member 1	<i>Ms4a1</i>	-2.5536	3.11E-02	1.01E-03
Chemokine (C-C motif) receptor 7	<i>Ccr7</i>	-2.3446	1.23E-02	1.56E-04
Complement receptor 2	<i>Cr2</i>	-2.3063	1.06E-02	7.38E-05
CD19 antigen	<i>Cd19</i>	-2.2856	1.40E-04	3.26E-07
Cystatin F (leukocystatin)	<i>Cst7</i>	-2.2784	4.95E-02	2.31E-03
Histocompatibility 2, class II antigen E β 2	<i>H2-Eb2</i>	-1.8299	2.55E-02	5.95E-04
CD22 antigen	<i>Cd22</i>	-1.7512	1.23E-02	1.18E-04
Histocompatibility 2, O region α locus	<i>H2-Oa</i>	-1.7194	3.56E-02	1.25E-03
B cell scaffold protein with ankyrin repeats 1	<i>Bank1</i>	-1.5358	2.55E-02	5.92E-04
Chemokine (C-X-C motif) ligand 5	<i>Cxcl5</i>	-1.5001	4.42E-02	1.65E-03
Chemokine (C-C motif) receptor 6	<i>Ccr6</i>	-1.4843	2.91E-02	7.79E-04
Dual specificity phosphatase 2	<i>Dusp2</i>	-1.4269	1.70E-02	2.77E-04
Spi-B transcription factor	<i>Spib</i>	-1.4116	3.11E-02	9.09E-04
Nuclear receptor subfamily 4, group A, member 2	<i>Nr4a2</i>	-1.3889	1.55E-02	2.35E-04
Tumor necrosis factor receptor superfamily, member 8	<i>Tnfrsf8</i>	-1.2221	4.99E-02	2.40E-03
Histocompatibility 2, T region locus 24	<i>H2-T24</i>	-1.1875	4.42E-02	1.64E-03
Histocompatibility 2, M region locus 2	<i>H2-M2</i>	-1.1742	4.99E-02	2.44E-03
Z-DNA binding protein 1	<i>Zbp1</i>	-0.9897	6.06E-03	2.82E-05
Epithelial membrane protein 1	<i>Empl</i>	-0.9596	1.92E-02	3.36E-04
Melanophilin	<i>Mlph</i>	-0.936	1.23E-02	1.56E-04
Protein tyrosine phosphatase, receptor type, C	<i>Ptprc</i>	-0.8487	3.11E-02	9.96E-04
Centromere protein F	<i>Cenpf</i>	-0.705	1.64E-02	4.28E-04
Histocompatibility 2, class II antigen A, β 1	<i>H2-Ab1</i>	-0.7036	6.03E-03	1.00E-04
Antigen identified by monoclonal antibody Ki 67	<i>Mki67</i>	-0.6661	2.39E-02	8.81E-04
Baculoviral IAP repeat-containing 5	<i>Birc5</i>	-0.6435	2.23E-02	7.02E-04

Histocompatibility 2, Q region locus 4	<i>H2-Q4</i>	-0.624	2.22E-02	6.60E-04
Histocompatibility 2, class II antigen A, α	<i>H2-Aa</i>	-0.5918	2.86E-03	3.40E-05
Histocompatibility 2, class II antigen E β	<i>H2-Eb1</i>	-0.5903	2.86E-03	3.20E-05
Histocompatibility 2, M region locus 3	<i>H2-M3</i>	-0.5693	3.97E-02	1.56E-03
Proteasome subunit, beta type 10	<i>Psmb10</i>	-0.4267	3.99E-02	1.61E-03

Genes are shown in descending order (log2FC values).

Suppl. Tab. 10: Pathways significantly altered by MC deficiency in early tumorigenic events in the colon (AOM vs AOM → CA). Data were obtained by RNA-seq and analysed on DAVID (Bioinformatic Database).

Pathway	Status	p-Value	Genes
Cell adhesion molecules	Downregulated	1.2E-8	<i>Cd34, H2-M2, H2-M3, H2-Oa, H2-T24, H2-Ab1, H2-Aa, H2-Eb1, Ptprc</i>
Intestinal immune network for IgA production	Downregulated	6.9E-7	<i>H2-Oa, H2-Aa, H2-Ab1, H2-Eb1</i>
Intestinal immune network for IgA production	Upregulated	6.9E-7	<i>Cxcl12, Il15</i>
Antigen processing and presentation	Downregulated	8.9E-7	<i>H2-M2, H2-M3, H2-Oa, H2-T24, H2-Ab1, H2-Aa, H2-Eb1</i>
Cytokine-cytokine receptor interaction	Upregulated	4.8E-5	<i>Ccl3, Il15, Cxcl12</i>
	Downregulated	4.8E-5	<i>Ccl19, Ccr6, Ccr7, Cxcl5, Tnfrsf8</i>
Chemokine signaling pathway	Upregulated	1.2E-3	<i>Ccl9, Ccl3, Cxcl12</i>
	Downregulated	1.2E-3	<i>Ccr6, Ccr7, Cxcl5</i>
B cell receptor signaling pathway	Downregulated	3.4E-2	<i>Cd19, Cd22, Cr2</i>

Acronyms meaning is given in Suppl. Tab. 9.

Suppl. Tab 11: Pathways significantly altered by MC deficiency in early tumorigenic events in the colon (AOM vs AOM+CA). Data were obtained by RNA-seq and analysed on DAVID (Bioinformatic Database).

Pathway	Status	p-Value	Genes
Antigen processing and presentation	Downregulated	1.2E-5	<i>Cd74, H2-M3, H2-Aa, H2-Ab1, H2-Eb1, Tap1</i>
Intestinal immune network for IgA production	Downregulated	5.0E-4	<i>H2-Aa, H2-Ab1, H2-Eb1</i>
Inflammatory bowel disease (IBD)	Downregulated	1.4E-3	<i>H2-Aa, H2-Ab1, H2-Eb1, Il13</i>
Cytokine-cytokine receptor interaction	Downregulated	1.9E-3	<i>Ccl19, Ccl5, Ccr6, Cxcl5, Il13</i>
B cell receptor signaling pathway	Downregulated	2.2E-3	<i>Cd19, Cd22, Cd72, Cr2</i>
Cell adhesion molecules (CAMs)	Downregulated	3.0E-3	<i>Cd22, H2-M3, H2-Aa, H2-Ab1, H2-Eb1</i>
Chemokine signaling pathway	Downregulated	5.9E-3	<i>Ccl19, Ccl5, Ccr6, Cxcl5</i>
NF-kappa B signaling pathway	Downregulated	5.1E-2	<i>Ccl19, Zap70</i>

Acronyms meaning is given in Suppl. Tab. 9.

Suppl. Tab. 12. Significantly altered genes by MC deficiency in allograft tumors (*Kit^{B6}* vs *Kit^{W^{sh}}*). Data were obtained by RNA-seq.

Name	Acronym	log2FC	p-Adj	p-Value
Upregulated genes				
RNA binding motif protein 3	<i>Rbm3</i>	8.39E+14	1.37E+14	1.77E+09
Cell adhesion molecule 1	<i>Cadm1</i>	8.37E+14	1.18E+14	3.38E+14
Proteasome (prosome, macropain) subunit, alpha type 2	<i>Psm2</i>	8.01E+14	7.53E+14	1.79E+14
Proteasome (prosome, macropain) subunit, beta type 7	<i>Psm7</i>	7.85E+14	1.44E+14	4.74E+14
Proteasome (prosome, macropain) inhibitor subunit 1	<i>Psmf1</i>	7.58E+14	4.88E+14	3.53E+14
Caspase 1	<i>Casp1</i>	7.57E+14	1.63E+14	2.56E+09
Tryptase alpha/beta 1	<i>Tpsab1</i>	7.50E+14	1.07E+02	3.07E-01
Proteasome (prosome, macropain) subunit, beta type 5	<i>Psm5</i>	7.13E+14	4.49E+14	2.70E+14
Carboxypeptidase A3, mast cell	<i>Cpa3</i>	6.78E+14	6.11E-26	8.74E-29
Interferon induced transmembrane protein 3	<i>Ifitm3</i>	6.53E+14	1.18E+14	3.31E+14
Tryptase beta 2	<i>Tpsb2</i>	6.49E+14	1.57E+03	6.75E+00
Proteasome (prosome, macropain) activator subunit 1 (PA28 alpha)	<i>Psm1</i>	6.39E+13	2.00E+14	8.02E+14
Proteasome (prosome, macropain) 26S subunit, non-atpase, 6	<i>Psm6</i>	6.13E+14	3.25E+14	1.48E+14
Proteasome (prosome, macropain) subunit, alpha type 4	<i>Psm4</i>	5.97E+14	3.47E+14	1.74E+14
Lectin, galactose binding, soluble 9	<i>Lgals9</i>	5.50E+14	4.88E+14	3.10E+14
Chemokine (C-C motif) receptor 5	<i>Ccr5</i>	5.50E+14	1.58E+14	5.87E+14
Vascular cell adhesion molecule 1	<i>Vcam1</i>	5.10E+14	3.47E+14	1.71E+14
Macrophage scavenger receptor 1	<i>Msr1</i>	4.89E+14	4.88E+14	3.30E+14
Proteasome (prosome, macropain) activator subunit 2 (PA28 beta)	<i>Psm2</i>	4.84E+14	1.84E+14	7.09E+14
Catalase	<i>Cat</i>	4.55E+14	4.46E+14	2.62E+14
Regulator of G-protein signaling 2	<i>Rgs2</i>	4.49E+14	4.36E+14	2.43E+14

Hepatitis A virus cellular receptor 2	<i>Havcr2</i>	4.38E+14	4.88E+14	3.37E+13
Beta-2 microglobulin	<i>B2m</i>	3.92E+14	4.18E+14	2.16E+14
Chemokine (C motif) ligand 1	<i>Xcl1</i>	1.00E+14	2.56E+13	1.09E+14
Downregulated genes				
Basic leucine zipper transcription factor, ATF-like	<i>Batf</i>	-5.87E+14	4.88E+14	3.56E+14
Chemokine (C-C motif) receptor 3	<i>Ccr3</i>	-2.03E+14	2.56E+13	1.10E+14
CD163 antigen	<i>Cd163</i>	-3.19E+12	5.71E+14	5.72E+08
CD5 antigen	<i>Cd5</i>	-1.27E+13	1.18E+14	3.34E+14
Class II transactivator	<i>Ciita</i>	-8.39E+14	1.91E+14	3.27E+09
C-type lectin domain family 10, member A	<i>Clec10a</i>	-1.99E+14	7.53E+14	1.83E+14
Colony stimulating factor 1 receptor	<i>Csf1r</i>	-6.71E+14	4.27E+14	2.32E+14
Dual specificity phosphatase 5	<i>Dusp5</i>	-8.73E+14	4.27E+14	2.32E+14
Coagulation factor XIII, A1 subunit	<i>F13a1</i>	-1.34E+14	1.46E+14	5.09E+14
Histocompatibility 2, class II antigen A, beta 1	<i>H2-Ab1</i>	-6.65E+14	9.83E+14	1.12E+09
Histocompatibility 2, class II antigen E beta	<i>H2-Eb1</i>	-8.66E+14	3.16E+14	2.71E+08
Histone cluster 1, h1c	<i>Hist1h1c</i>	-8.62E+14	3.25E+14	1.49E+14
Interleukin 13	<i>Il13</i>	-1.89E+14	4.88E+14	3.56E+14
K(lysine) acetyltransferase 6 ^a	<i>Kat6a</i>	-5.78E+13	1.23E+14	3.78E+14
Leptin receptor overlapping transcript	<i>Leprot</i>	-8.37E+14	1.63E+14	2.50E+09
MAP-kinase activating death domain	<i>Madd</i>	-7.40E+14	4.44E+14	2.54E+14
Avian musculoaponeurotic fibrosarcoma oncogene homolog	<i>Maf</i>	-1.22E+14	1.46E+14	5.23E+13
Nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105	<i>Nfkb1</i>	-4.57E+14	6.19E+14	1.24E+13
Nudix (nucleoside diphosphate linked moiety X)-type motif 9	<i>Nudt9</i>	-6.03E+14	1.23E+14	3.87E+14
Programmed cell death 1 ligand 2	<i>Pdcd1lg2</i>	-1.56E+14	6.66E+14	1.43E+14
Proteoglycan 2, bone marrow	<i>Prg2</i>	-4.22E+14	2.19E+14	4.07E+09
Solute carrier family 15 (H+/peptide transporter), member 2	<i>Slc15a2</i>	-8.60E+13	1.67E+14	1.20E+08

Solute carrier family 7 (cationic amino acid transporter, y+ system), member 8	<i>Slc7a8</i>	-6.46E+14	4.83E+14	2.97E+14
Suppressor of cytokine signaling 1	<i>Socs1</i>	-5.57E+14	3.47E+14	1.65E+14
Spondin 2, extracellular matrix protein	<i>Spon2</i>	-1.61E+14	4.88E+14	3.28E+13
Tumor-associated calcium signal transducer 2	<i>Tacstd2</i>	-2.22E+13	4.88E+14	3.56E+14
Thrombospondin 4	<i>Thbs4</i>	-2.78E+14	3.85E+09	2.20E+07

According to their log₂FC values, genes are shown in descending order.

Suppl. Tab. 13: Pathways significantly altered by MC deficiency in in allograftic tumors.. Data were obtained by RNA-seq and analysed on DAVID (Bioinformatic Database).

Pathway	Status	p-Value	Genes
Proteasome	Downregulated	8.6E-10	<i>Psm6,</i> <i>Psm1,</i> <i>Psm2,</i> <i>Psmf1,</i> <i>Psm2,</i> <i>Psm4,</i> <i>Psm4,</i> <i>Psm5,</i> <i>Psm7</i>
			<i>Ciita, H2-Ab1, H2-Eb1</i>
Antigen processing and presentation	Upregulated	3.1E-5	<i>B2m, Psm1,</i> <i>Psm2</i>
	Downregulated	3.1E-5	<i>Maf, H2-Ab1, H2-Eb1, Il13, Nfkb1</i>
Inflammatory bowel disease (IBD)	Upregulated	1.4E-4	<i>H2-Ab1, H2-Eb1, Pcd11g2</i>
Cell adhesion molecules (CAMs)	Upregulated	6.0E-3	<i>Cadm1,</i> <i>Vcam1</i>
	Downregulated	6.0E-3	<i>Ccr5, Xcl1</i>
Cytokine-cytokine receptor interaction	Downregulated	2.3E-2	<i>Ccr3, Csf1r, Il13</i>
	Upregulated	2.3E-2	<i>Xcl1, Ccr5</i>
Chemokine signaling pathway	Downregulated	5.9E-2	<i>Ccr3, Nfkb1</i>
	Upregulated	5.9E-2	

Acronyms meaning is given in Suppl. Tab. 12.

