SUPPLEMENTARY FIGURE LEGENDS

Supplementary Figure 1 Dose-dependent effects of CSF-1 treatment in *op/op* mice.

Seven groups were administered glyoxylate by daily intra-abdominal injection for 6 days. To investigate the role of CSF-1 in kidney crystal formation, mice of each genotype were injected subcutaneously with purified recombinant human CSF-1 (rhCSF-1), with concomitant glyoxylate administration, daily for 6 days.

Data are presented as mean ± SE. *$p < 0.05$ compared with untreated day 6 *op/op* mice. op + CSF-1(0.1), (1.0), (5.0), and (10) indicate *op/op* mice administered 0.1, 1.0, 5.0, and 10 μg of CSF-1 per mouse, respectively.

A. The ratio of area with renal crystal deposition. The ratio of renal crystal depositions in op+CSF-1 (1.0), (5.0), and (10) groups were significantly lower than in the *op/op* group.

B. The concentrations of serum CSF-1. CSF-1 levels were calculated using multiple quantitative immunoassays with an analysis device (MAGPIX; Merck Millipore, Billerica, MA). The serum CSF-1 concentrations of *op/op* mice were significantly lower than those of the +/+ group, but those in the op+CSF-1 (5.0) and (10) groups were increased significantly compared with *op/op*.

Based on these results, we used a CSF-1 concentration of 5.0 μg per mouse for

subsequent experiments.

Supplementary Figure 1

A
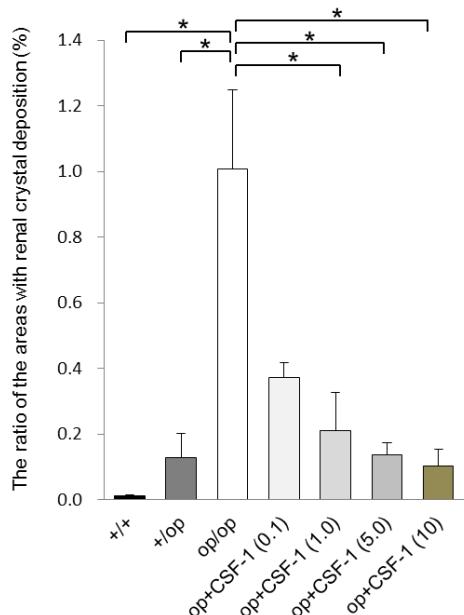
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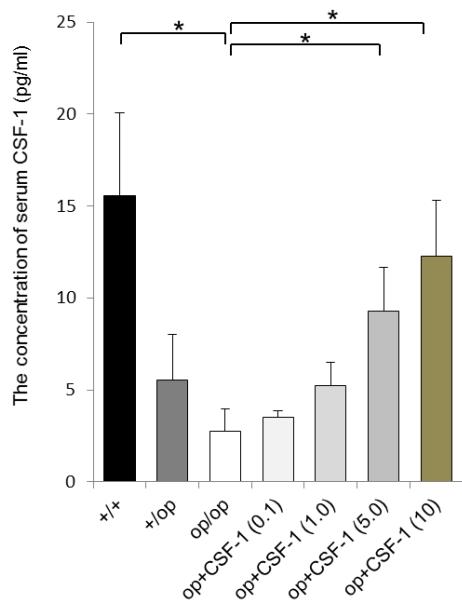
Supplementary Table 1.

Body weight, water intake, and urinary concentrations of *+/+* and *op/op* mice

	Day 0		Day 6	
	+/+	*op/op*	+/+	*op/op*
BW (g)	23.8 ± 0.6	20.8 ± 1.1	22.4 ± 1.0	20.8 ± 0.9
WI (mL)	3.0 ± 0.3	3.2 ± 0.4	5.4 ± 0.8[§]	4.6 ± 0.4[§]
UV (mL)	1.14 ± 0.10	0.62 ± 0.10*	1.84 ± 0.76	1.48 ± 0.29[§]
U-Ca (mg/dL)	3.0 ± 0.3	3.7 ± 0.6	3.1 ± 0.7	4.1 ± 1.2
U-Ox (mg/L)	173.8 ± 8.0	192.0 ± 7.9	288.0 ± 28.4[§]	291.3 ± 44.5[§]

On day 0, the urinary volume (UV) of the *op/op* mice was lower than that of the +/+ group; otherwise there were no significant differences in body weight (BW), water intake (WI), urinary calcium (U-Ca), and urinary oxalate (U-Ox) between groups. The WI of both +/+ and *op/op* mice increased on day 6 compared with day 0, whereas the UV of *op/op* mice was higher on day 6 than on day 0. The concentrations of U-Ox on day 6 were higher than on day 0 in both groups.

Data are presented as mean ± SE. *$p < 0.05$ compared with +/+ mice, [§]$p < 0.05$ compared with day 0 in each group.

BW, body weight; WI, water intake; UV, urinary volume; U-Ca, urinary calcium; U-Ox, urinary oxalate.

Supplementary Table 2.

A list of genes showing a different expression pattern between M1 and M2 macrophages. M1 and M2 macrophages were prepared from the bone marrow cells of wild-type mice, then subjected to microarray analysis using Agilent SurePrint G3 Mouse GE microarrays. The analysis was performed using triplicates of each macrophage subpopulation. Probes showing significant ($p <$ 0.01, and > 4-fold) differences between M1 and M2 macrophages are listed. The

probe ID of the Agilent array, official gene symbol, and average values of the

fold-difference are shown.

Supplementary Table2.

A list of genes showing a different expression pattern
between M1 and M2 macrophages

Probe ID	Official Gene Symbol	M1/M2(fold)
A_51_P257951	Retnla	−2291.429843
A_55_P2079009	Slco2b1	−193.0182164
A_55_P2030155	Slco2b1	−89.64720135
A_55_P1988108	Mrc1	−85.60838472
A_55_P2119772	Scn3a	−85.56570377
A_52_P425839	Retnlg	−68.87519533
A_52_P547662	P2ry1	−51.6391769
A_66_P106808	Scn3a	−45.2257054
A_51_P455338	Ear11	−37.52441304
A_52_P71686	Atp6v0d2	−35.66962145
A_55_P2002291	Msx3	−29.46520156
A_52_P590396	Sort1	−29.43434503
A_52_P126403	Tmem26	−27.87923946
A_52_P16419	Gpd1	−26.85207645
A_55_P2085974	Igf1	−26.55213197
A_52_P161630	St6gal1	−21.71107416
A_51_P167876	Tfrc	−21.47003444
A_55_P2097998	1500017E21Rik	−20.19696038
A_55_P2026139	BC055004	−18.2303912
A_65_P06446	Tfrc	−18.19677273
A_55_P2406802	4930511J24Rik	−17.88859903
A_51_P303424	Itgax	−17.84860851
A_51_P303160	Arg1	−17.61197309
A_55_P2128853	Ear12	−17.34376369
A_55_P2082796	Gm14461	−17.07099033
A_51_P433083	4930510E17Rik	−16.73492291
A_55_P2036394	Slc39a12	−16.14410995
A_66_P124179	Atp6v0d2	−16.13305554
A_51_P366672	Slc36a2	−15.80344541
A_55_P2031636	Igf1	−15.62547238
A_65_P13459	Cd300lb	−15.49681791
A_52_P228236	Tfrc	−15.33087038
A_51_P229498	Lrfn2	−14.21049791
A_55_P2220683	4833419A21Rik	−14.18143481
A_55_P1952618	Ear2	−14.02326226
A_51_P517145	Sort1	−13.23131182
A_51_P106799	Pparg	−12.65224669
A_55_P2252891	D11Ertd717e	−12.4725591
A_51_P398723	Flt1	−12.4709497
A_51_P324287	Kif23	−12.2346642
A_55_P2105783	Mmp12	−12.00312455
A_55_P2097478	Gda	−11.82350524
A_55_P2114863	Mgll	−11.79527378
A_55_P2045129	5830410O09Rik	−11.7622414
A_55_P2344244	4930556H04Rik	−11.66942039
A_55_P2067041	Agxt2	−11.39357269
A_55_P1984596	Stxbp5	−11.33321282
A_51_P520936	Bcar3	−11.26745357
A_52_P412585	Ear1	−11.01401711
A_55_P2120469	Armc2	−10.98069451
A_55_P2025523	Arhgap6	−10.93242041
A_51_P279100	Ptgs1	−10.90917396
A_55_P2036176	Mcf2l	−10.4517598
A_55_P2057430	Lipn	−10.31938787

A_66_P121459	Cenpa	−10.20463333
A_55_P2163774	Crip1	−10.04088341
A_52_P257812	Lpl	−9.972980297
A_55_P2084739	Gcnt1	−9.832105526
A_55_P1988623	Add3	−9.744211179
A_52_P21550	Gcnt1	−9.727608049
A_51_P103397	Vwf	−9.655974057
A_52_P375323	Slc9a9	−9.594972024
A_52_P116006	Gda	−9.406386223
A_52_P585124	Cxcr4	−9.347969714
A_55_P2114187	Gm6522	−9.333124884
A_66_P133397	Chi3l4	−9.27371699
A_66_P138915	Fyn	−9.217805523
A_55_P1974028	Stab2	−9.166438104
A_51_P513716	Ankrd55	−9.112114654
A_51_P469285	Nrp1	−9.078790432
A_66_P115682	Tectb	−9.057170397
A_55_P2256601	AU022434	−8.81816456
A_55_P2109445	Irf4	−8.74831883
A_55_P2036180	Mcf2l	−8.699922022
A_55_P2063316	Mgll	−8.659932621
A_51_P459661	Lipa	−8.626074643
A_51_P409452	Cldn11	−8.584080467
A_52_P139716	Olfr112	−8.51571419
A_52_P553890	Itgb3	−8.473368312
A_55_P2014882	Dhrs9	−8.42979969
A_51_P302139	Mastl	−8.278280882
A_52_P308413	1810011H11Rik	−8.274175739
A_52_P628067	Cdca3	−8.240277943
A_55_P2157008	Ear10	−8.232400101
A_51_P322640	Ccl24	−8.104442798
A_55_P2062418	Atp6v0a1	−8.053147736
A_55_P2025528	Arhgap6	−8.001363287
A_55_P1981135	Olfr114	−7.97770126
A_51_P347240	Lrr1	−7.974071824
A_51_P122582	Daglb	−7.82054023
A_51_P167292	Chi3l3	−7.793409911
A_52_P577662	Ednrb	−7.769729728
A_51_P259296	Lpl	−7.732994034
A_52_P404942	ORF63	−7.722895232
A_51_P195825	Tsnaxip1	−7.720016869
A_66_P117729	Awat1	−7.694009441
A_55_P2036392	Slc39a12	−7.659897569
A_51_P460048	Cnrip1	−7.568499995
A_55_P1952240	Slitrk2	−7.543305733
A_55_P2082679	Aph1b	−7.519703615
A_55_P2086575	Arhgap19	−7.448640325
A_55_P2113051	Fosb	−7.314751737
A_55_P2084723	LOC635918	−7.205361931
A_55_P2288285	2310007J06Rik	−7.125249831
A_51_P114634	Amz1	−7.10351966
A_55_P2116385	Gpr183	−7.095143189
A_52_P591473	Armc2	−7.088917794
A_51_P391367	Tcfap4	−7.086270561
A_55_P2043862	Stmn1	−6.978005332
A_52_P171019	Man1a	−6.927564797
A_55_P2409088	BB163080	−6.904117128
A_55_P2085979	Igf1	−6.899735703
A_52_P366047	Rpp40	−6.886686484

A_51_P220317	Cdca7l	−6.868540869
A_55_P2140118	Qpct	−6.824434483
A_55_P2005320	Tm7sf4	−6.815976399
A_52_P571371	Tmem144	−6.796466121
A_55_P2065726	Snx29	−6.791396673
A_55_P1970895	Olfr889	−6.779481786
A_52_P299832	Plxnc1	−6.759539852
A_52_P552589	Map4k1	−6.755473999
A_55_P2112560	Ern1	−6.747341584
A_55_P2068560	Lyzl4	−6.706685544
A_55_P2046648	LOC641221	−6.689131467
A_55_P2033362	Egr2	−6.640668401
A_55_P1961736	Rcan2	−6.61322506
A_55_P2065294	Scn3a	−6.602621753
A_52_P222696	Poteg	−6.59955432
A_55_P2011436	Gm11223	−6.587492892
A_55_P2065288	Scn3a	−6.533916418
A_55_P2178084	Dnmt3a	−6.518953389
A_55_P1994927	Rab3il1	−6.447121624
A_55_P2088028	Mtss1	−6.443791885
A_55_P1960735	Gdf15	−6.438122377
A_55_P2221901	Gm10797	−6.400520802
A_55_P2086664	Tspan33	−6.388357943
A_51_P251352	Slc25a13	−6.324277358
A_51_P397925	Smap2	−6.323373776
A_55_P2068663	Stmn1	−6.317014133
A_52_P381430	Tbc1d4	−6.314804367
A_52_P33831	Lrrc27	−6.299386584
A_52_P251366	Neil3	−6.294772769
A_55_P2119907	Dnahc11	−6.136536291
A_55_P2065671	Ccnb1	−6.104058971
A_51_P349495	Mboat1	−6.078918598
A_55_P2345853	3830612M24	−6.078824931
A_51_P302520	Myom1	−6.011078664
A_66_P133404	2810417H13Rik	−5.948624035
A_51_P445841	Deptor	−5.945832411
A_51_P415905	Pola1	−5.871368882
A_51_P351896	Fam198b	−5.836336679
A_55_P2005946	Lyzl4	−5.831030666
A_55_P1979491	Cd28	−5.827714777
A_51_P501018	Nek2	−5.821897945
A_55_P2003541	Nrcam	−5.798575653
A_55_P2037662	Atp1a3	−5.773417354
A_52_P442169	Bsn	−5.771540722
A_52_P15388	Ltf	−5.770900793
A_52_P11174	Hip1	−5.756245327
A_55_P2155859	Olfr243	−5.749093523
A_55_P2176280	Prkar1b	−5.745078477
A_52_P385606	Ckb	−5.74483971
A_52_P507498	Plxnc1	−5.730491885
A_51_P236412	Cdkl2	−5.726022344
A_55_P2101757	Dscc1	−5.72401241
A_55_P2024953	Tbc1d4	−5.695964284
A_55_P2109857	Rgs2	−5.659829135
A_66_P136186	Wee1	−5.649084183
A_52_P708792	Gm5547	−5.630467442
A_55_P2060193	Mcf2l	−5.627508263
A_55_P1976224	Ckb	−5.528309551
A_55_P2122020	Klf4	−5.51108787

A_52_P142191	Aph1b	−5.504476639
A_55_P1963184	LOC100504348	−5.495648109
A_55_P2336558	Chn2	−5.495575237
A_55_P2025033	Cep55	−5.476542631
A_55_P2056496	Tk1	−5.454398848
A_51_P247249	Alox5	−5.451472615
A_51_P368009	E2f2	−5.443142704
A_66_P104980	Tceal5	−5.440263763
A_55_P2092661	Nup210	−5.436535994
A_66_P134542	Anln	−5.415171916
A_55_P2013268	Gm13391	−5.390185861
A_51_P485862	Eef1a2	−5.384735571
A_51_P272283	Cmbl	−5.357973924
A_52_P231075	Fcrls	−5.338307608
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A_55_P1977008	Gfi1	−5.308712454
A_55_P2033557	AB041803	−5.226018023
A_52_P354373	1190002F15Rik	−5.222816078
A_52_P325527	Edil3	−5.204042341
A_55_P2089710	Ednrb	−5.169462204
A_55_P2030030	Adssl1	−5.137601103
A_51_P481920	Ccna2	−5.096663837
A_55_P2170681	Cdca8	−5.057357623
A_51_P172054	Gas6	−5.055812638
A_51_P125205	Aqp1	−5.052998158
A_55_P1983450	S100a4	−5.038056844
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A_55_P2030583	Lrriq1	−5.008032761
A_55_P2177578	Atp6v0a1	−4.998318032
A_55_P2008417	Mnd1	−4.972271866
A_55_P2098539	Itgb3bp	−4.970865611
A_52_P239320	Syngr1	−4.967491848
A_55_P2045055	Clec10a	−4.965589499
A_51_P410949	Polr3g	−4.941749563
A_55_P1972772	Gsg1	−4.894188948
A_55_P2129514	Trerf1	−4.89405953
A_55_P1983768	Birc5	−4.881025538
A_55_P2016652	Cdk1	−4.877592558
A_55_P1983448	S100a4	−4.832943068
A_65_P14951	Cblb	−4.828199034
A_51_P191649	Ndc80	−4.824403248
A_55_P2164534	Dtl	−4.803811696
A_55_P1983769	Birc5	−4.78884586
A_55_P1952256	Ccnb1	−4.770373323
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A_51_P155152	Ank	−4.757171247
A_51_P481398	Kif11	−4.726222665
A_51_P246653	Clec7a	−4.720529843
A_51_P240453	Nusap1	−4.708246648
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A_55_P1983773	Birc5	−4.684343267
A_52_P168567	Cebpa	−4.674365674
A_51_P132978	Idh1	−4.64597007
A_55_P1996941	Ube2c	−4.63652849
A_51_P320852	Cd9	−4.625390914
A_51_P155142	Cdca8	−4.6158387
A_51_P281380	Tspan5	−4.613240012
A_66_P105422	Lonrf3	−4.590843812

A_52_P193925	Sulf2	−4.575744826
A_51_P461319	Gatm	−4.553098909
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A_66_P120074	Uhrf1	−4.502704404
A_52_P134195	Ceacam10	−4.480646159
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A_51_P204402	Shcbp1	−4.451632508
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A_52_P540219	Timp2	−4.368717748
A_55_P2076048	Nuf2	−4.346081925
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A_55_P2130388	Mical1	−4.300263577
A_55_P1968178	Smagp	−4.287784562
A_55_P2180301	Clcn5	−4.287540176
A_51_P101006	Ak8	−4.267666766
A_51_P309589	2700099C18Rik	−4.26562835
A_55_P1998601	Slc17a9	−4.254681507
A_55_P2152427	Zwilch	−4.248997015
A_55_P2118684	Idh2	−4.238806472
A_51_P473888	Il6st	−4.225158902
A_51_P123405	Bub1	−4.218512861
A_55_P2109717	Kif20b	−4.218341808
A_55_P1987043	Tpp1	−4.215660684
A_55_P2156304	Kcnj16	−4.209759454
A_55_P2069659	9930013L23Rik	−4.200165862
A_55_P2007878	Rnf144b	−4.19074942
A_52_P227391	Kif15	−4.18288316
A_52_P104824	Diap3	−4.179882536
A_52_P588881	Iqgap3	−4.177494416
A_55_P2063626	Matk	−4.170169603
A_51_P148105	Rad51	−4.169961345
A_52_P136138	Fdft1	−4.164321835
A_55_P2158011	D2Ertd750e	−4.15787331
A_55_P2031631	Igf1	−4.149596046
A_52_P231170	Megf9	−4.142621181
A_55_P2165120	Cblb	−4.138949368
A_51_P415220	Zmat3	−4.135413065
A_51_P513530	Spag5	−4.134959503
A_55_P2150003	Gnat3	−4.131155026
A_51_P241843	Tmem202	−4.111539531
A_51_P375146	Cd36	−4.099095778
A_55_P2058348	Tmem206	−4.096541414
A_55_P2292046	D230018H15Rik	−4.088002277
A_55_P2085984	Igf1	−4.085554508
A_66_P138584	Mnd1	−4.084029819
A_55_P2062255	4831426I19Rik	−4.073067434
A_55_P2294295	Tanc2	−4.072608402
A_55_P2080774	Qdpr	−4.053935177
A_51_P133137	Kif20a	−4.053879764
A_52_P529570	Nsl1	−4.053225588
A_51_P248387	Pcyox1l	−4.047112632

A_51_P140368	2310061C15Rik	−4.036750582
A_51_P422625	Arl11	−4.036439589
A_55_P2115851	9930013L23Rik	−4.012378038
A_51_P490509	Bub1b	−4.003832166
A_55_P1969341	Brip1	−4.001781674
A_55_P1995092	H2−Q10	4.014280975
A_55_P1971010	Gzme	4.016123794
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A_52_P30550	Acp2	4.050530863
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A_66_P109986	Cd33	4.098274845
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A_52_P496924	Mgat4a	4.100495204
A_55_P1999339	Inpp5b	4.102719951
A_55_P1958250	Rnf114	4.107886156
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A_52_P472324	Slpi	10.51829821
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A_51_P327996	Ccl22	10.93946288
A_55_P2019601	Csprs	11.06648843
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A_51_P514712	Parp14	11.26411138
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A_51_P376238	Serping1	11.81734388
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A_55_P1978987	Ifih1	11.88772465
A_51_P496432	Acsl1	11.97700264
A_52_P99888	Cxcl16	11.98860649
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A_52_P385536	Ddx58	12.13179122
A_51_P265495	Ly6a	12.21471782
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A_51_P517695	Ly6f	12.4726784
A_55_P2082961	Fnbp1l	12.47860252
A_55_P1978521	Gbp10	12.5024766
A_55_P2129354	Pilra	12.59837714
A_55_P2181222	Pydc3	12.60539429
A_52_P216613	Gpr18	12.60609644
A_55_P1990032	Cxcl5	12.69332618
A_51_P315391	Txlnb	12.78938778
A_55_P2064004	Rapgef2	12.82242298
A_55_P2088401	H2−T9	12.9531077
A_55_P2005783	Ifih1	12.95866235
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A_51_P508259	Ppm1n	13.23899314
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A_52_P466147	Rarres2	13.3058097
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A_51_P202633	Ebi3	13.78483697
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A_51_P262171	Irgm1	14.54076533
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A_51_P464918	Mefv	14.67782809
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A_66_P112006	H2-T10	19.09255666
A_55_P1983668	Gm6377	19.36273844
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A_51_P255699	Mmp3	23.10908448
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A_66_P101942	Gm9706	32.8998486
A_55_P2088033	Gm6904	33.41809755
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A_51_P203955	Gbp2	35.22554201
A_51_P463846	Gbp7	36.29035941
A_55_P2015687	D14Ertd668e	37.15650086
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A_51_P112355	Igtp	37.67714648
A_52_P203691	Arl5c	37.83124368
A_55_P1962918	Mnda	38.31130144
A_55_P1997756	Il6	38.40597579
A_55_P1977038	Cxcl9	38.43054684
A_55_P1994862	Ddx60	39.62792386
A_55_P2098398	Trim30c	40.59427855
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A_55_P2173892	Isg20	41.05001659
A_66_P139683	Zbp1	42.1716832
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A_51_P140710	Ccl3	45.2371677
A_52_P203440	U90926	46.63009294
A_55_P1962400	Il1rn	47.43536851
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A_55_P2181963	Gm8369	62.60454095
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A_55_P2052380	Gbp6	75.63008315
A_55_P2036627	Pydc3	77.33666355
A_55_P2135064	H2-M2	80.13855549
A_51_P432229	Gstt4	80.17787076
A_55_P2036357	Pyhin1	82.69900921
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A_55_P2103837	Gbp4	88.9894312
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A_55_P2035509	Pyhin1	101.7873383
A_55_P2472435	Gbp3	101.9376083
A_55_P2082319	BC094916	104.4920085
A_51_P371750	Marco	121.7635318
A_52_P1020860	AW112010	124.5708844
A_51_P217463	Cxcl2	127.7905284
A_55_P2180176	Ms4a6b	129.2112969
A_51_P312485	Fpr1	138.1310649
A_52_P638459	Ccl5	150.3835205
A_52_P100926	Il1a	151.7994023
A_55_P1972872	I830012O16Rik	162.5778495
A_52_P161488	Clec4e	164.8426327
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A_51_P161021	Ifit2	182.4862053
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A_55_P1990633	Iigp1	187.0503688
A_55_P2086433	Oasl1	187.3353565
A_55_P2158404	Cmpk2	189.363255
A_55_P2135986	Ms4a4c	194.409108
A_52_P186937	Cmpk2	195.6308929
A_51_P136294	Ms4a4b	235.0260888
A_55_P2016459	Cxcl10	242.3157719
A_51_P212782	Il1b	266.1898037
A_51_P123625	Irg1	312.4512063
A_51_P413866	Cfb	339.1411182
A_51_P359570	Ifit3	341.6351955
A_52_P232813	Cxcl3	367.2186702
A_52_P425890	Slfn1	433.7225971
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A_51_P181286	Cd69	619.7589112
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