

Supplementary Table 1. NOD signaling and autophagy genes fold change during acute OM: median (range) and *P* value.

***Nod1* 1454733_at**

Time 0h	1.000 (0.997 to 1.003)	0.999
Time 3h	0.896 (0.815 to 0.922)	0.261
Time 6h	0.738 (0.696 to 0.782)	0.120
Time 1d	1.680 (1.661 to 1.699)	0.014
Time 2d	0.969 (0.891 to 1.053)	0.777
Time 3d	0.658 (0.596 to 0.728)	0.150
Time 5d	0.549 (0.503 to 0.600)	0.093
Time 7d	0.537 (0.533 to 0.541)	0.081

***Nod2* (not on the array)**

***Rip2 (Ripk2)* 1449485_at**

Time 0h	0.998 (0.930 to 1.070)	0.978
Time 3h	1.777 (1.412 to 2.236)	0.242
Time 6h	1.500 (1.489 to 1.512)	0.012
Time 1d	0.920 (0.800 to 1.058)	0.658
Time 2d	1.235 (1.219 to 1.251)	0.040
Time 3d	0.998 (0.847 to 1.177)	0.994
Time 5d	1.143 (1.085 to 1.205)	0.237
Time 7d	1.137 (1.049 to 1.233)	0.358

***Ubc13 (Ube2n)* 1422559_at**

Time 0h	0.980 (0.800 to 1.200)	0.936
Time 3h	1.525 (1.424 to 1.633)	0.102
Time 6h	1.528 (1.385 to 1.687)	0.145
Time 1d	2.586 (2.503 to 2.671)	0.022
Time 2d	2.212 (2.120 to 2.308)	0.034
Time 3d	1.737 (1.707 to 1.768)	0.020
Time 5d	1.186 (1.159 to 1.214)	0.087
Time 7d	1.087 (1.017 to 1.162)	0.428

***Traf2* 1451233_at**

Time 0h	0.998 (0.939 to 1.061)	0.980
Time 3h	1.082 (1.056 to 1.109)	0.190
Time 6h	1.088 (1.062 to 1.114)	0.179
Time 1d	2.322 (2.178 to 2.476)	0.048
Time 2d	1.752 (1.598 to 1.920)	0.103
Time 3d	1.636 (1.618 to 1.654)	0.014
Time 5d	0.999 (0.892 to 1.119)	0.994
Time 7d	0.992 (0.957 to 1.028)	0.854

***Traf3* 1449149_at**

Time 0h	0.991 (0.867 to 1.133)	0.958
Time 3h	1.086 (0.673 to 1.751)	0.892
Time 6h	1.763 (1.327 to 2.342)	0.296
Time 1d	4.779 (4.098 to 5.574)	0.062
Time 2d	2.593 (1.315 to 5.115)	0.394
Time 3d	1.594 (1.033 to 2.461)	0.477
Time 5d	0.796 (0.298 to 2.126)	0.855
Time 7d	0.777 (0.308 to 1.961)	0.831

Traf4 1416571_at

Time 0h	0.985 (0.829 to 1.171)	0.946
Time 3h	1.751 (1.581 to 1.940)	0.115
Time 6h	1.708 (1.254 to 2.327)	0.333
Time 1d	1.520 (1.484 to 1.556)	0.036
Time 2d	1.241 (1.090 to 1.413)	0.344
Time 3d	1.089 (1.000 to 1.187)	0.502
Time 5d	1.070 (0.891 to 1.285)	0.774
Time 7d	0.617 (0.597 to 0.637)	0.043

Traf6 1435350_at

Time 0h	0.964 (0.732 to 1.268)	0.914
Time 3h	2.015 (1.942 to 2.091)	0.034
Time 6h	4.082 (2.916 to 5.716)	0.150
Time 1d	1.596 (1.476 to 1.725)	0.105
Time 2d	1.815 (1.683 to 1.957)	0.0803
Time 3d	1.485 (1.235 to 1.785)	0.278
Time 5d	0.576 (0.563 to 0.589)	0.026
Time 7d	1.218 (1.217 to 1.218)	0.001

Bcl-10 1418972_at

Time 0h	0.890 (0.544 to 1.456)	0.852
Time 3h	5.661 (5.581 to 5.742)	0.005
Time 6h	4.341 (3.859 to 4.882)	0.051
Time 1d	5.396 (5.139 to 5.667)	0.019
Time 2d	3.226 (2.850 to 3.652)	0.067
Time 3d	2.612 (2.492 to 2.739)	0.031
Time 5d	1.936 (1.902 to 1.970)	0.017
Time 7d	1.884 (1.808 to 1.964)	0.042

Card9 (not on the array)

Irf7 1417244_a_at

Time 0h	0.996 (0.914 to 1.086)	0.973
Time 3h	5.078 (3.115 to 8.279)	0.186
Time 6h	5.909 (4.715 to 7.406)	0.081
Time 1d	4.289 (4.275 to 4.303)	0.001
Time 2d	12.06 (11.79 to 12.33)	0.006
Time 3d	8.185 (5.619 to 11.92)	0.113
Time 5d	2.938 (2.881 to 2.995)	0.011
Time 7d	2.153 (1.887 to 2.457)	0.108

Atg5 (Apg5) 1418235_at

Time 0h	0.953 (0.697 to 1.303)	0.903
Time 3h	0.656 (0.649 to 0.663)	0.017
Time 6h	0.651 (0.531 to 0.799)	0.283
Time 1d	2.573 (2.364 to 2.800)	0.057
Time 2d	3.726 (3.007 to 4.617)	0.103
Time 3d	2.482 (2.449 to 2.516)	0.009
Time 5d	2.209 (2.055 to 2.376)	0.058
Time 7d	2.584 (2.268 to 2.945)	0.087

Atg7 (Apg7) 1428610_at

Time 0h	1 (0.971 to 1.029)	0.991
Time 3h	1.021 (0.862 to 1.209)	0.922
Time 6h	1.820 (1.045 to 3.169)	0.476
Time 1d	5.681 (4.980 to 6.480)	0.048
Time 2d	3.652 (2.360 to 5.651)	0.207
Time 3d	6.380 (5.913 to 6.883)	0.026
Time 5d	1.063 (1.009 to 1.121)	0.449
Time 7d	0.956 (0.934 to 0.978)	0.297

Atg12 (Apg12) 451746_a_at

Time 0h	0.995 (0.904 to 1.096)	0.969
Time 3h	0.348 (0.124 to 0.977)	0.493
Time 6h	0.840 (0.785 to 0.899)	0.236
Time 1d	2.034 (1.877 to 2.205)	0.072
Time 2d	2.923 (2.462 to 3.470)	0.101
Time 3d	2.952 (2.690 to 3.240)	0.055
Time 5d	1.828 (1.579 to 2.115)	0.151
Time 7d	2.216 (2.095 to 2.345)	0.045

Atg16l (Apg16l) 1428169_at. Not significantly regulated.

Data on the additional genes encoding signaling molecules as illustrated in Figure 1 and listed below, have been previously published (Leichtle et al., 2012; Yao et al., 2014; Cho et al., 2016).

Tak1 (Map3k7) 1425795_a_at

Time 0h	0.997 (0.929 to 1.071)	0.977
Time 3h	1.165 (1.109 to 1.223)	0.198
Time 6h	1.282 (1.272 to 1.291)	0.019
Time 1d	2.353 (2.083 to 2.657)	0.090
Time 2d	2.743 (2.325 to 3.237)	0.104
Time 3d	2.082 (1.927 to 2.251)	0.067
Time 5d	1.801 (1.749 to 1.855)	0.032
Time 7d	1.750 (1.661 to 1.845)	0.060

Tab1 1426898_at

Time 0h	1.000 (0.975 to 1.025)	0.992
Time 3h	0.484 (0.450 to 0.521)	0.064
Time 6h	0.343 (0.248 to 0.475)	0.188
Time 1d	0.765 (0.680 to 0.860)	0.263
Time 2d	0.586 (0.535 to 0.641)	0.107
Time 3d	0.667 (0.577 to 0.771)	0.218
Time 5d	0.671 (0.655 to 0.688)	0.040
Time 7d	0.902 (0.871 to 0.934)	0.209

Nemo (Ikbkg, IKK γ) 1450161_at

Time 0h	0.985 (0.829 to 1.171)	0.945
Time 3h	0.720 (0.357 to 1.453)	0.721
Time 6h	0.459 (0.170 to 1.240)	0.577
Time 1d	7.459 (6.881 to 8.086)	0.026
Time 2d	5.694 (5.486 to 5.910)	0.014
Time 3d	4.081 (3.569 to 4.667)	0.061
Time 5d	3.371 (2.682 to 4.236)	0.118

Time 7d 2.741 (2.123 to 3.537) 0.158

***Ikkα* (IKKα) 1451381_a_at**

Time 0h 0.984 (0.824 to 1.176) 0.944
Time 3h 0.595 (0.533 to 0.663) 0.132
Time 6h 0.657 (0.613 to 0.705) 0.106
Time 1d 0.750 (0.720 to 0.781) 0.090
Time 2d 0.539 (0.502 to 0.578) 0.072
Time 3d 0.658 (0.590 to 0.733) 0.161
Time 5d 0.592 (0.546 to 0.642) 0.097
Time 7d 0.452 (0.443 to 0.46) **0.015**

***Ikkβ* (IKKβ) 1426207_at**

Time 0h 0.994 (0.893 to 1.107) 0.966
Time 3h 0.987 (0.889 to 1.097) 0.922
Time 6h 1.154 (1.107 to 1.204) 0.182
Time 1d 1.531 (1.479 to 1.585) 0.052
Time 2d 1.388 (1.208 to 1.596) 0.256
Time 3d 1.117 (0.942 to 1.325) 0.634
Time 5d 0.684 (0.645 to 0.725) 0.097
Time 7d 0.690 (0.674 to 0.707) **0.041**

***Nfkbα* (IκBα) 1448306_at**

Time 0h 0.931 (0.634 to 1.366) 0.882
Time 3h 5.652 (5.393 to 5.923) 0.017
Time 6h 5.153 (5.107 to 5.199) 0.003
Time 1d 5.875 (4.654 to 7.417) 0.083
Time 2d 2.096 (1.633 to 2.689) 0.207
Time 3d 1.789 (1.258 to 2.543) 0.347
Time 5d 0.573 (0.553 to 0.594) 0.041
Time 7d 0.632 (0.613 to 0.653) 0.044

***Nfkbε* (IκBε) 1458299_s_at**

Time 0h 0.965 (0.739 to 1.261) 0.916
Time 3h 6.947 (5.903 to 8.175) 0.053
Time 6h 6.680 (5.854 to 7.623) 0.044
Time 1d 4.703 (4.636 to 4.771) 0.006
Time 2d 2.435 (1.408 to 4.213) 0.351
Time 3d 2.800 (2.556 to 3.067) 0.056
Time 5d 0.812 (0.768 to 0.859) 0.167
Time 7d 0.551 (0.514 to 0.59) 0.073

***Nfkb1* (p50/p105) 1427705_a_at**

Time 0h 0.986 (0.831 to 1.169) 0.946
Time 3h 3.986 (3.366 to 4.720) 0.078
Time 6h 3.122 (3.113 to 3.130) 0.002
Time 1d 2.802 (2.775 to 2.828) 0.006
Time 2d 1.762 (1.711 to 1.814) 0.033
Time 3d 1.485 (1.264 to 1.745) 0.246
Time 5d 1.014 (1.006 to 1.023) 0.340
Time 7d 0.943 (0.916 to 0.972) 0.300

***Rela* (p65) 1419536_a_at**

Time 0h 0.998 (0.934 to 1.066) 0.979
Time 3h 3.042 (2.955 to 3.132) 0.017
Time 6h 2.340 (2.237 to 2.448) 0.034
Time 1d 1.837 (1.629 to 2.071) 0.124

Time 2d	1.178 (1.083 to 1.282)	0.303
Time 3d	0.702 (0.592 to 0.831)	0.284
Time 5d	0.663 (0.634 to 0.692)	0.068
Time 7d	0.594 (0.556 to 0.635)	0.081

***Irak1* 1460649_at**

Time 0h	0.984 (0.822 to 1.178)	0.943
Time 3h	1.276 (1.200 to 1.358)	0.158
Time 6h	1.214 (1.126 to 1.309)	0.236
Time 1d	2.727 (2.616 to 2.844)	0.027
Time 2d	2.113 (1.744 to 2.561)	0.160
Time 3d	1.671 (1.603 to 1.742)	0.051
Time 5d	0.895 (0.807 to 0.992)	0.476
Time 7d	0.914 (0.842 to 0.991)	0.467

***Tank* 1421640_a_at**

Time 0h	0.988 (0.845 to 1.155)	0.950
Time 3h	5.293 (4.927 to 5.686)	0.027
Time 6h	6.392 (4.876 to 8.379)	0.092
Time 1d	6.077 (4.987 to 7.405)	0.070
Time 2d	5.146 (4.259 to 6.217)	0.073
Time 3d	4.782 (3.670 to 6.232)	0.107
Time 5d	3.244 (3.234 to 3.254)	0.002
Time 7d	3.005 (2.686 to 3.360)	0.065

***Nap1 (Nckap1)* 1452196_a_at**

Time 0h	0.977 (0.788 to 1.212)	0.932
Time 3h	1.059 (0.947 to 1.184)	0.698
Time 6h	0.941 (0.831 to 1.065)	0.710
Time 1d	1.938 (1.877 to 2.001)	0.031
Time 2d	1.729 (1.652 to 1.809)	0.053
Time 3d	1.774 (1.584 to 1.986)	0.124
Time 5d	0.859 (0.849 to 0.870)	0.054
Time 7d	0.927 (0.919 to 0.936)	0.080

***Sintbad (3110043L15Rik)* 1435183_at.** Not significantly regulated.

***Irf3* 1426111_x_at**

Time 0h	0.998 (0.942 to 1.058)	0.981
Time 3h	1.124 (0.941 to 1.343)	0.631
Time 6h	1.114 (0.927 to 1.339)	0.663
Time 1d	1.808 (1.781 to 1.835)	0.016
Time 2d	1.419 (1.273 to 1.582)	0.192
Time 3d	0.984 (0.949 to 1.020)	0.732
Time 5d	0.843 (0.796 to 0.893)	0.207
Time 7d	0.864 (0.809 to 0.923)	0.270