**Figure S1**

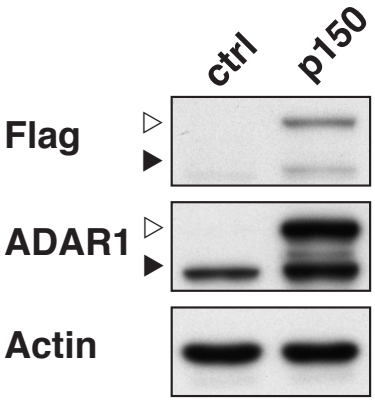
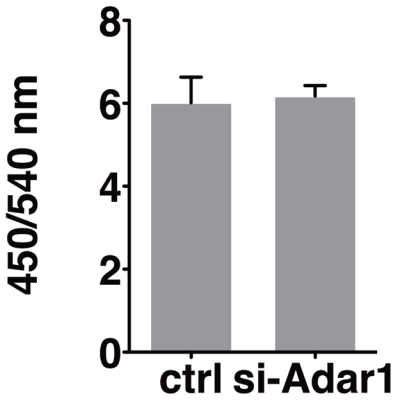


**Figure S2**


450/540 nm
8
6
4
2
0
ctrl si-Adar1

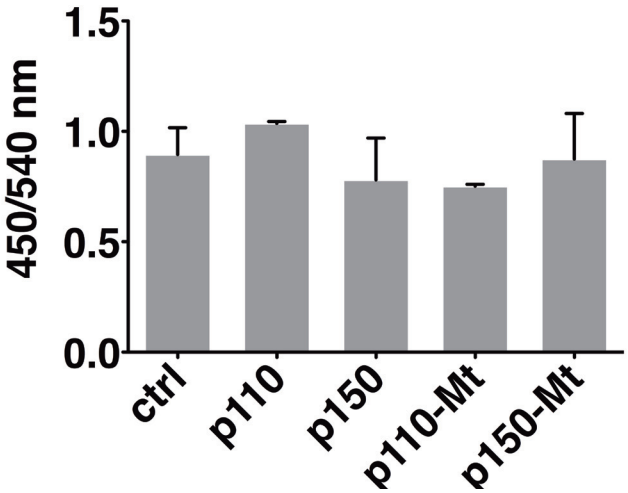

450/540 nm
1.5
1.0
0.5
0.0
ctrl
p110
p150
p110-Mt
p150-Mt

**Figure S3**

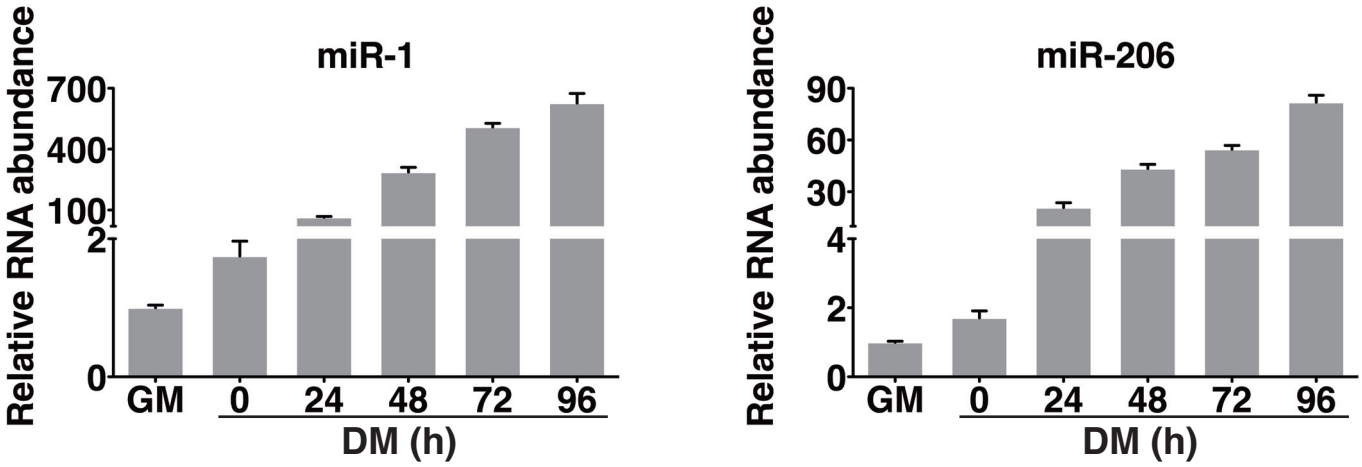

miR-1
Relative RNA abundance
700
400
100
2
0
GM
0
24
48
72
96
DM (h)
miR-206
Relative RNA abundance
90
60
30
4
2
0
GM
0
24
48
72
96
DM (h)

Figure S4

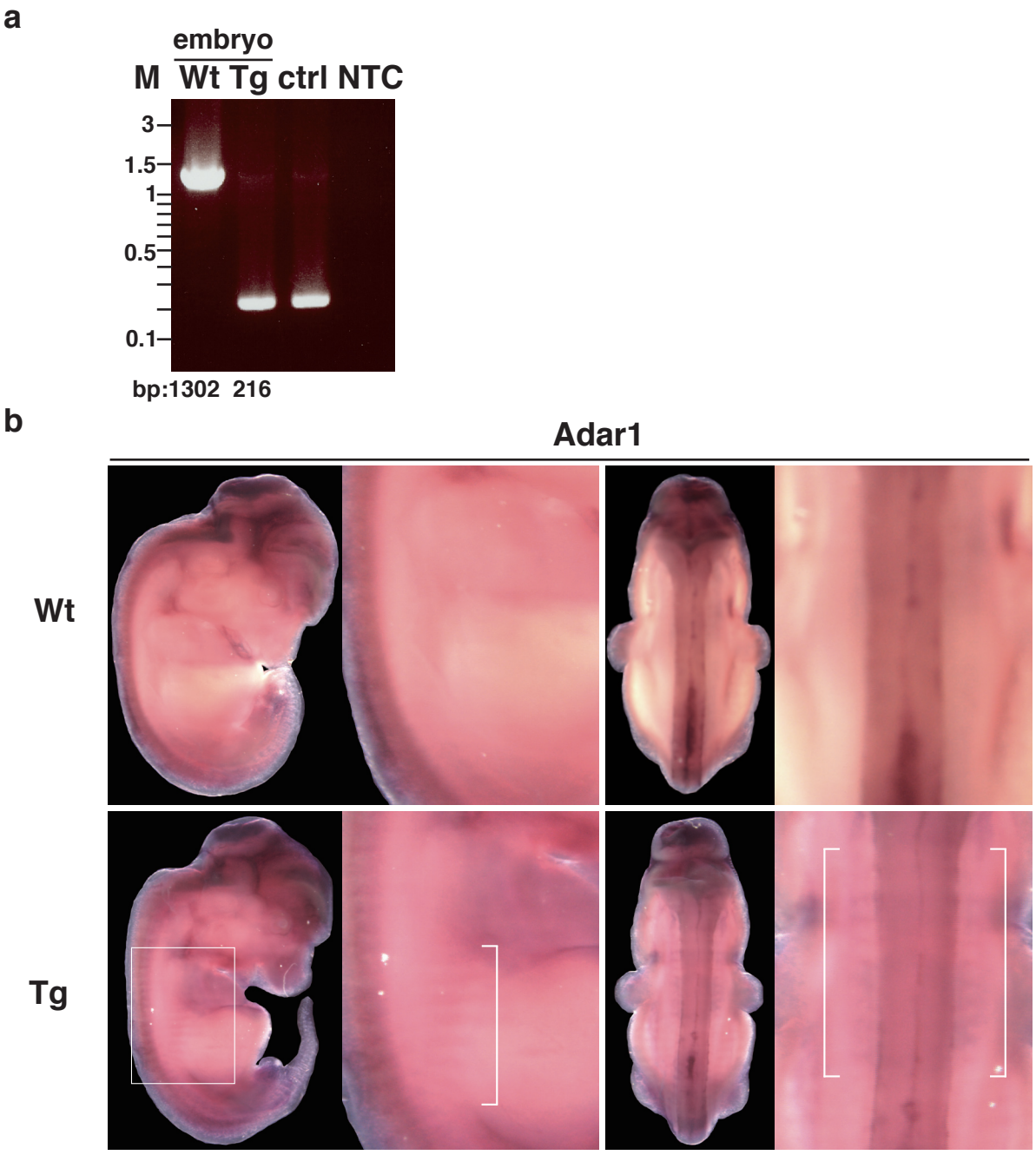
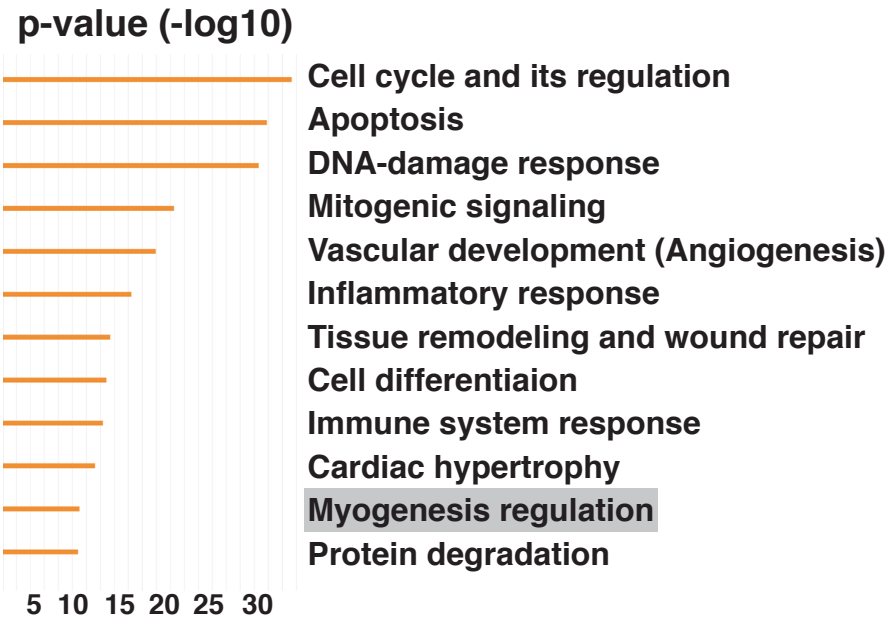
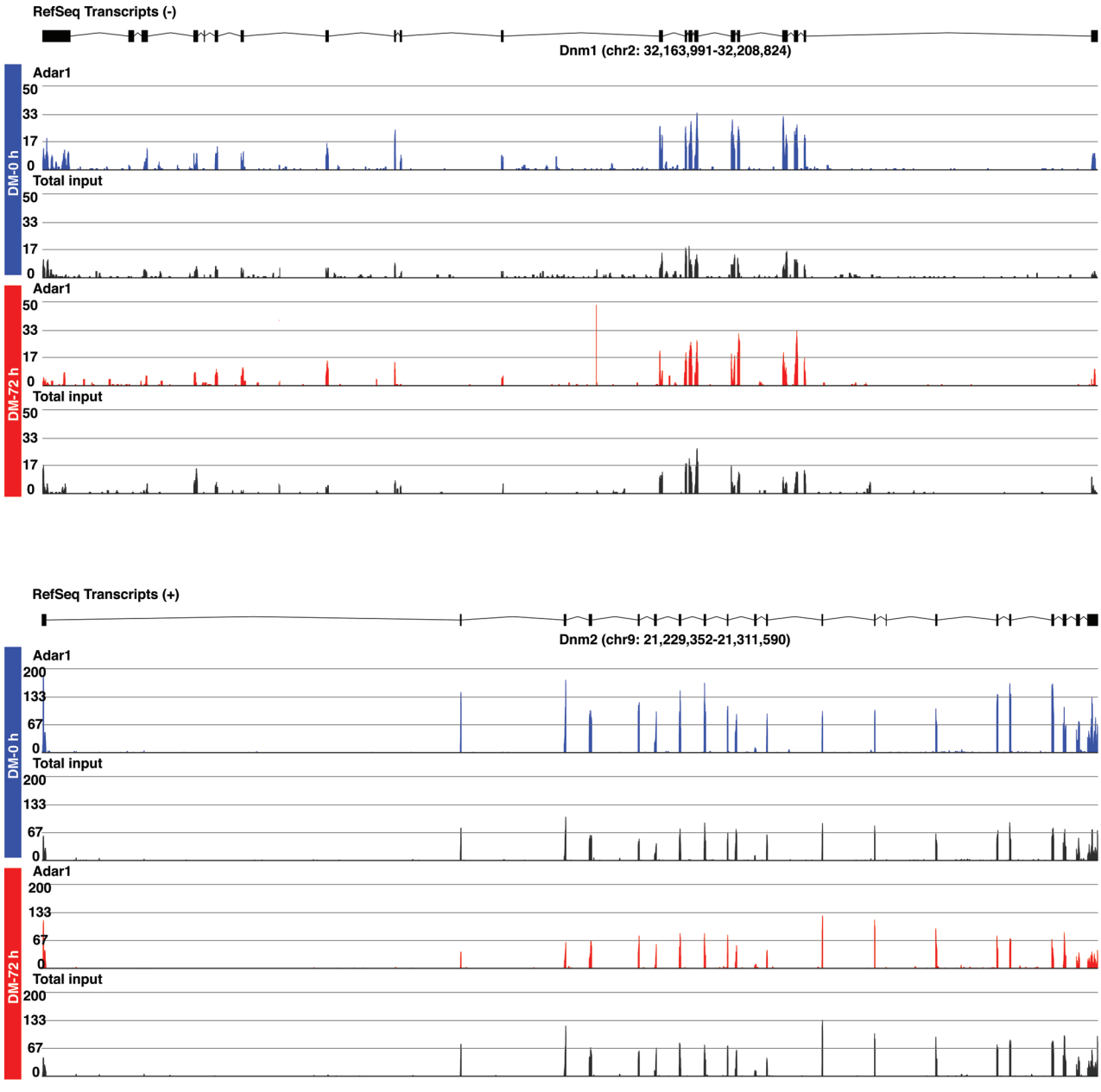

a
embryo
M Wt Tg ctrl NTC
3
1.5
1
0.5
0.1
bp:1302 216
b
Adar1
Wt
Tg
c
Tg/Wt Ratio
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28
Anterior → Posterior

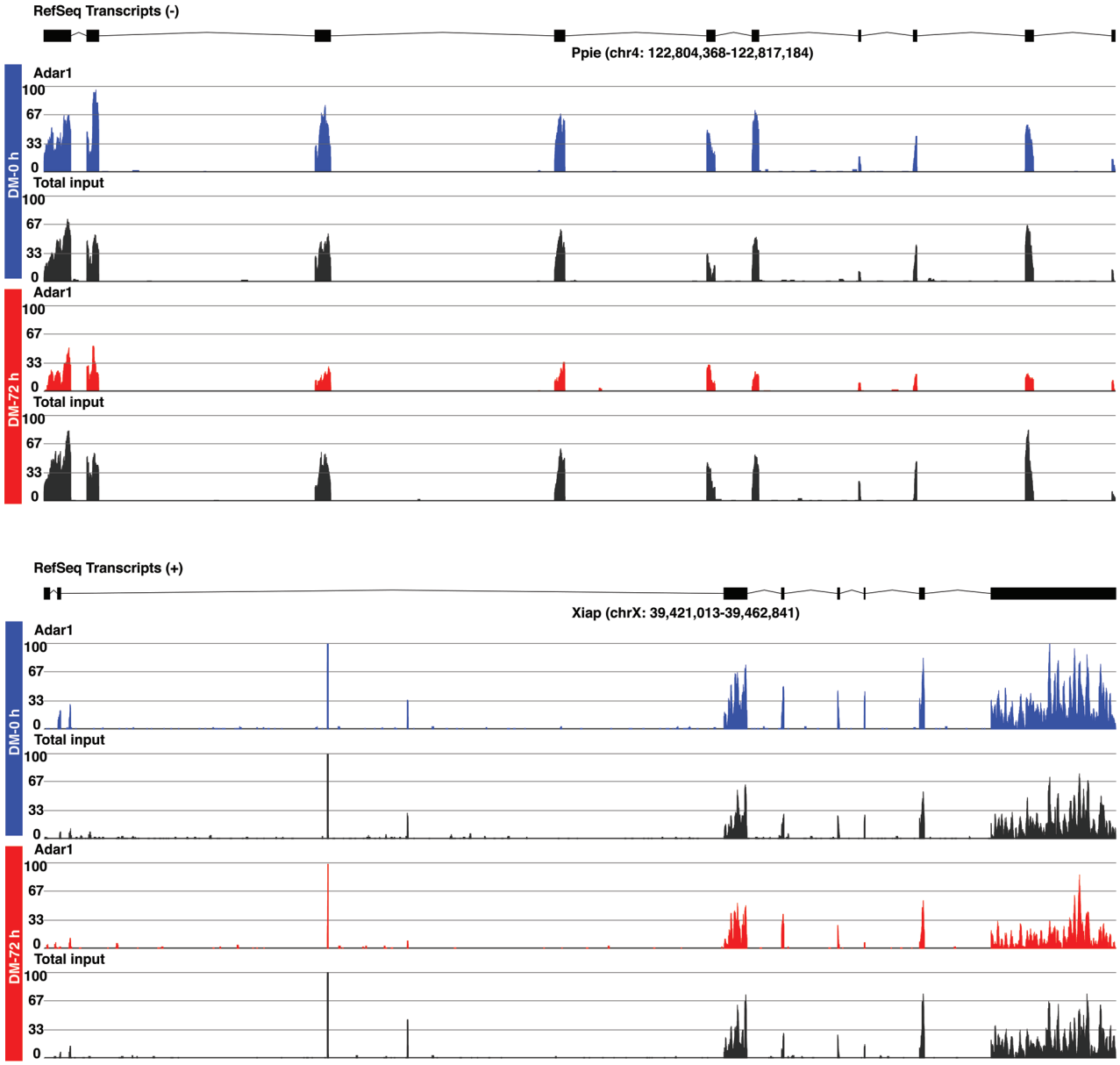
Figure S5

a

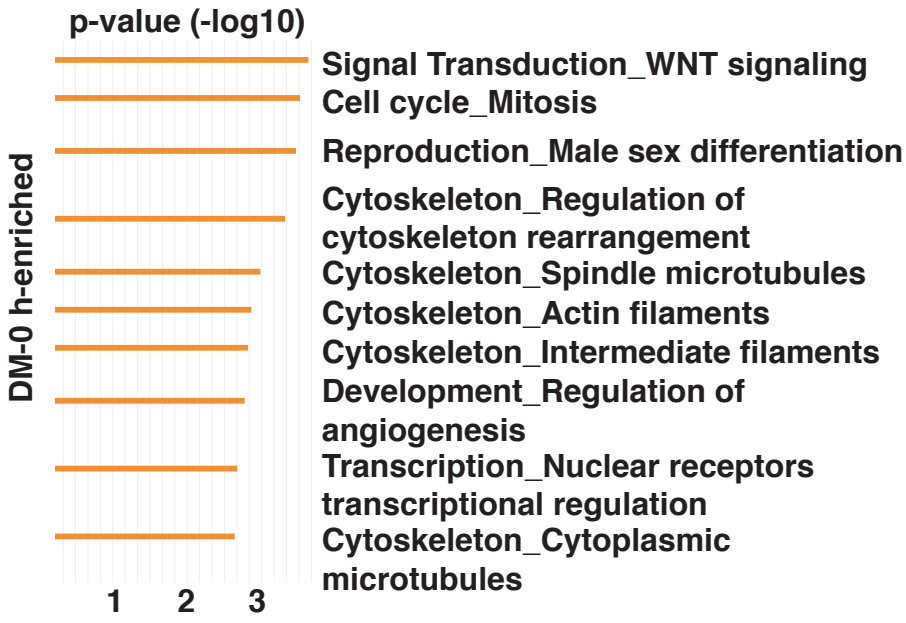

p-value (-log10)
Cell cycle and its regulation
Apoptosis
DNA-damage response
Mitogenic signaling
Vascular development (Angiogenesis)
Inflammatory response
Tissue remodeling and wound repair
Cell differentiaion
Immune system response
Cardiac hypertrophy
Myogenesis regulation
Protein degradation
5 10 15 20 25 30

b


RefSeq Transcripts (-)
Dnm1 (chr2: 32,163,991-32,208,824)
Adar1
DM-0 h
Total input
DM-72 h
RefSeq Transcripts (+)
Dnm2 (chr9: 21,229,352-21,311,590)


RefSeq Transcripts (-)
Ppie (chr4: 122,804,368-122,817,184)
Adar1
DM-0 h
Total input
Adar1
DM-72 h
Total input
RefSeq Transcripts (+)
Xiap (chrX: 39,421,013-39,462,841)
Adar1
DM-0 h
Total input
Adar1
DM-72 h
Total input
100
67
33
0

c


p-value (-log10)
DM-0 h-enriched
Signal Transduction_WNT signaling
Cell cycle_Mitosis
Reproduction_Male sex differentiation
Cytoskeleton_Regulation of cytoskeleton rearrangement
Cytoskeleton_Spindle microtubules
Cytoskeleton_Actin filaments
Cytoskeleton_Intermediate filaments
Development_Regulation of angiogenesis
Transcription_Nuclear receptors transcriptional regulation
Cytoskeleton_Cytoplasmic microtubules
1
2
3

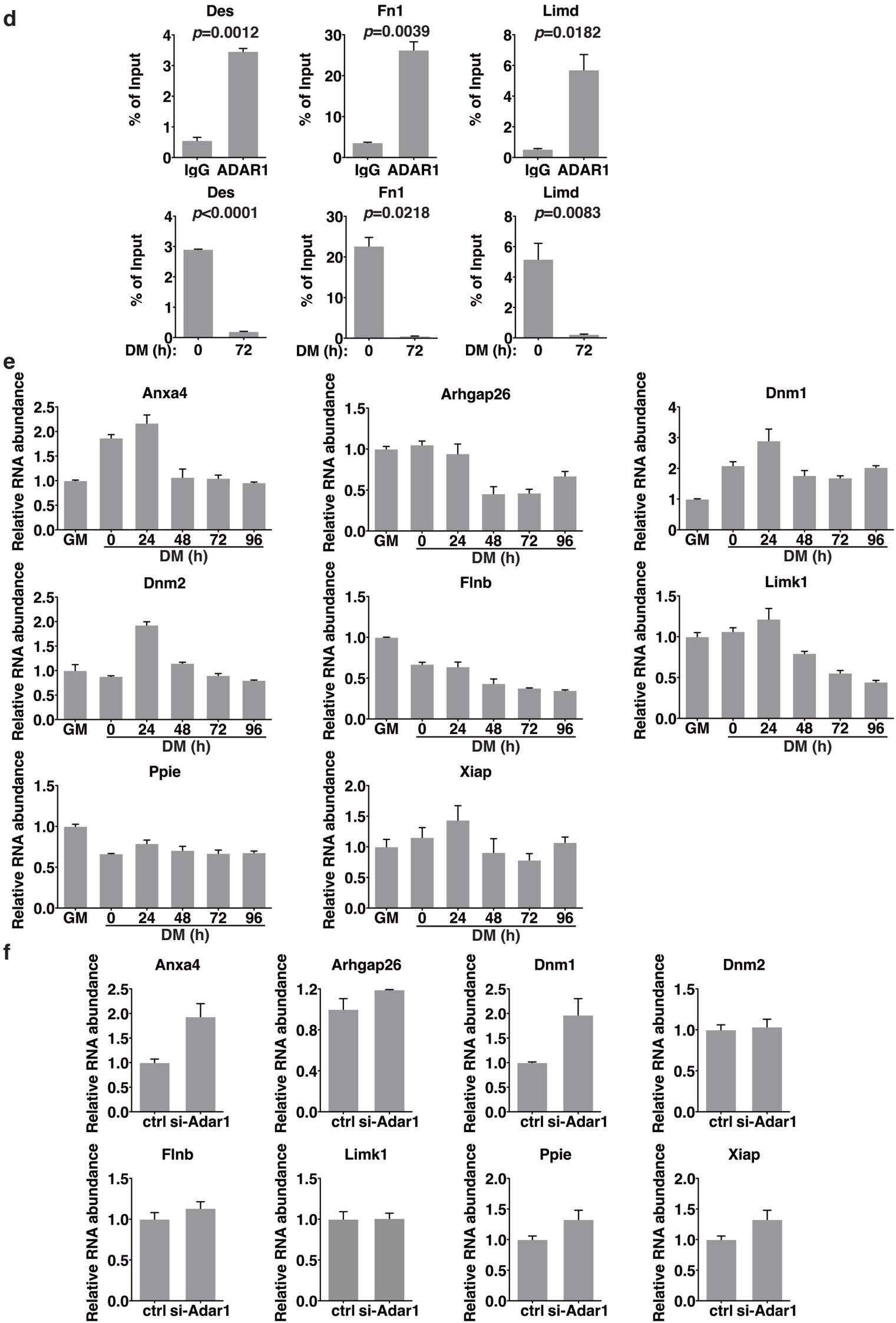
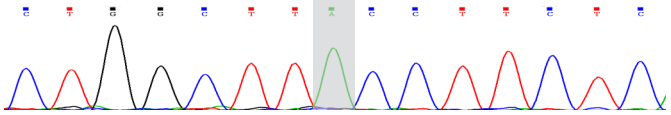

d
Des
p=0.0012
% of Input
IgG ADAR1
Fn1
p=0.0039
Limd
p=0.0182
Des
p<0.0001
DM (h): 0 72
Fn1
p=0.0218
Limd
p=0.0083
e
Anxa4
Arhgap26
Dnm1
Dnm2
Flnb
Limk1
Ppie
Xiap
Relative RNA abundance
GM 0 24 48 72 96
DM (h)
f
Anxa4
Arhgap26
Dnm1
Dnm2
Flnb
Limk1
Ppie
Xiap
Relative RNA abundance
ctrl si-Adar1

Figure S6

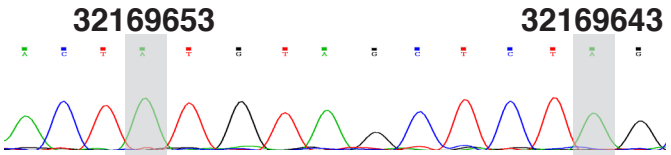
Dnm1

DM-0 hr

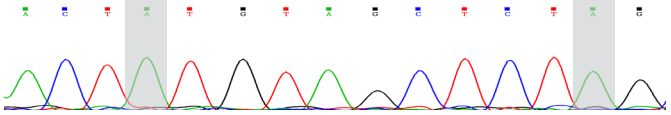
DM-72 hr



DM-0 hr

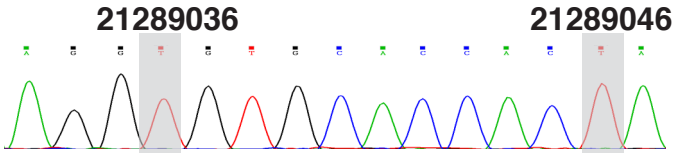



DM-72 hr

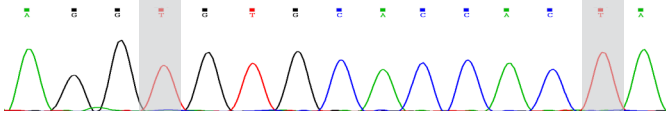


Dnm2

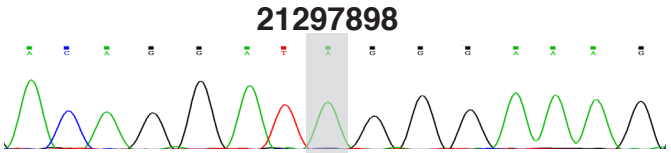
DM-0 hr

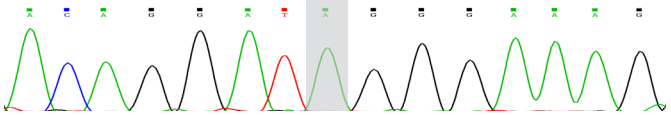



DM-72 hr



DM-0 hr




DM-72 hr