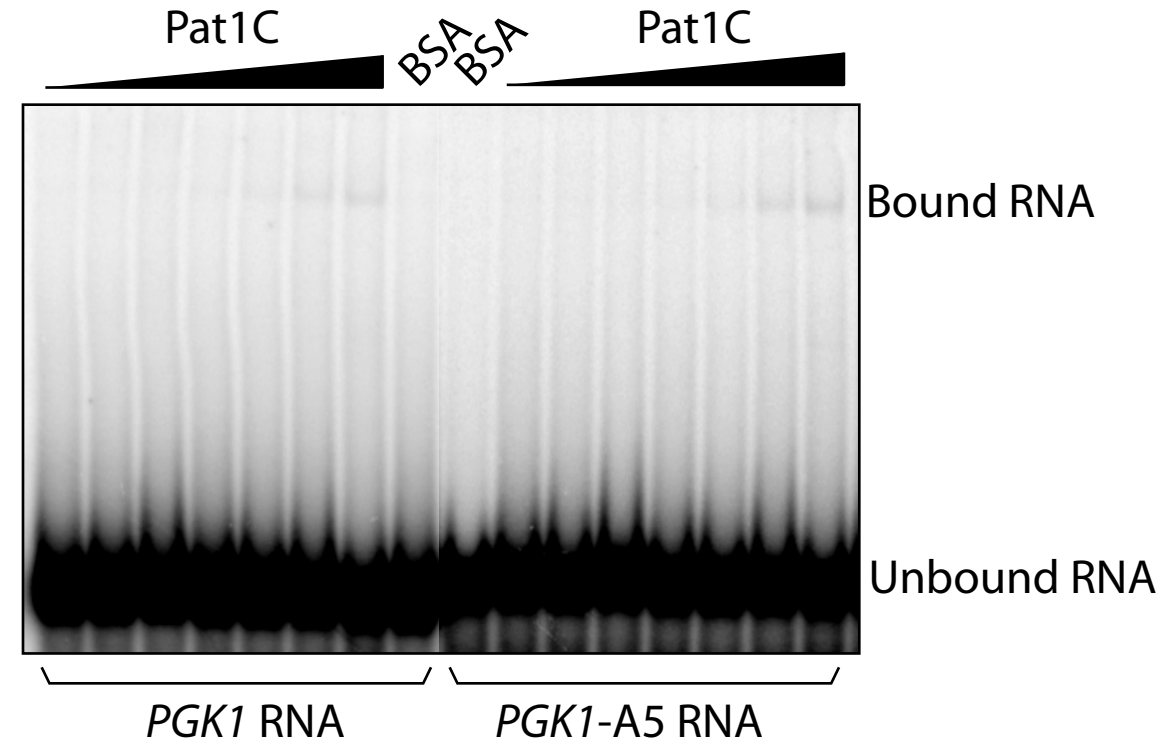
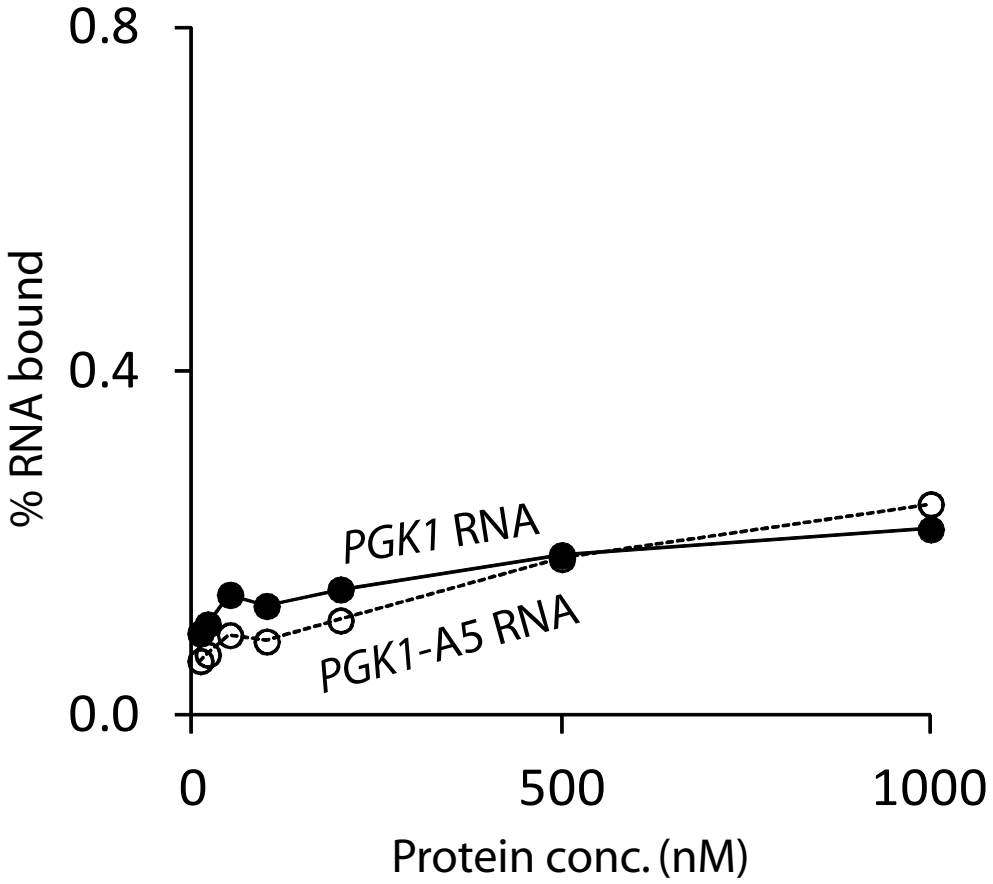
LEGENDS TO SUPPLEMENTARY FIGURES

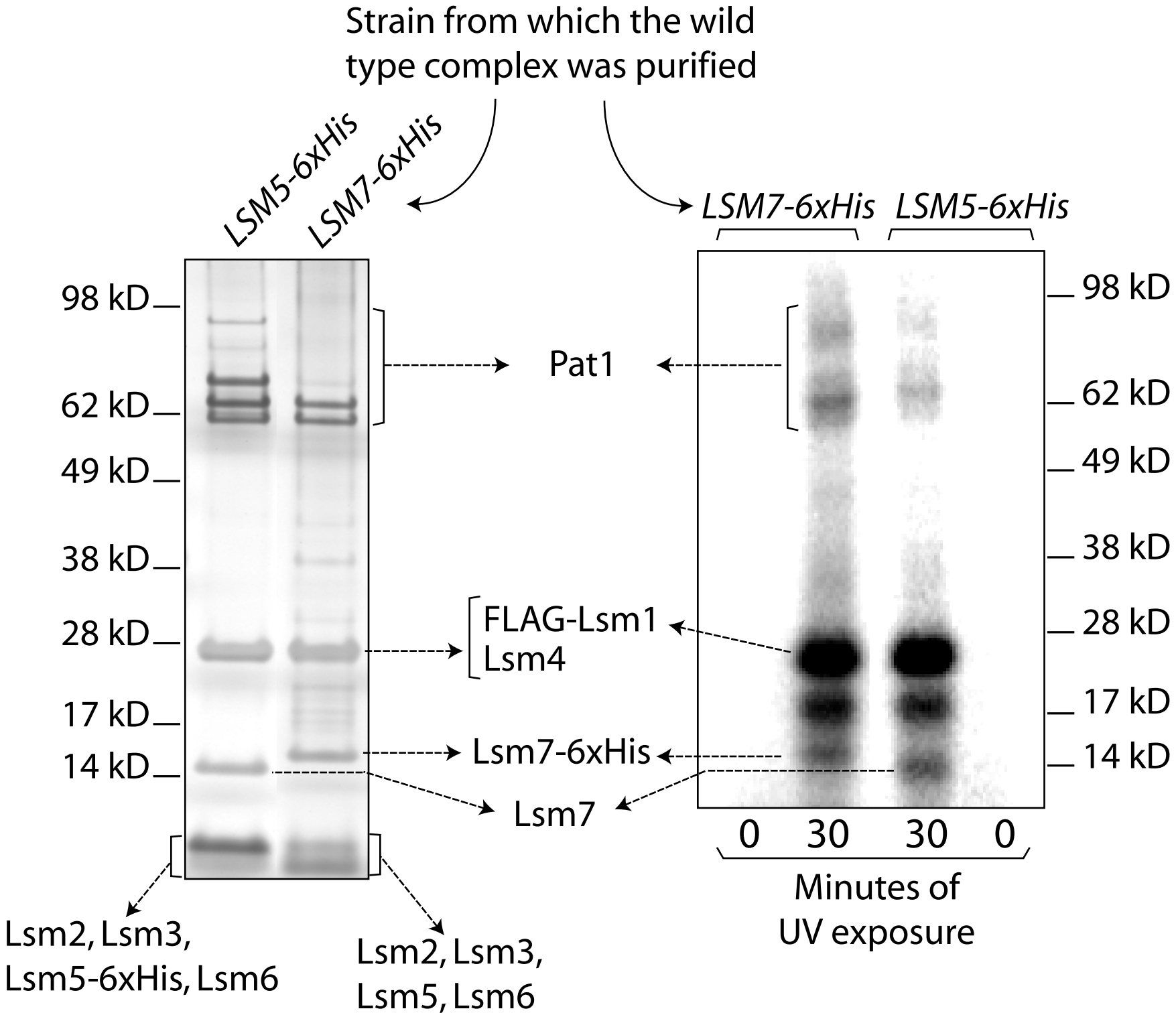
Figure S1. Pat1C is severely impaired in its ability to bind RNA and does not exhibit a binding preference for oligoadenylated RNA. BSA or increasing concentrations of Pat1C expressed and purified from *E. coli* (indicated on top) was subjected to gel shift assays using uniformly radiolabeled *PGK1* and *PGK1*-A_5 RNAs. Plots of % RNA bound (quantitated using phosphorimager) versus the concentration of the protein used are shown directly below the phosphorimages of the gels.

Figure S2. Lsm7 contacts RNA in the Lsm1-7-Pat1 complex. Lsm1-7-Pat1 complex purified from an *LSM5-6xHis* or an *LSM7-6xHis* strain was subjected to UV crosslinking in the presence of uniformly radiolabeled *PGK1* RNA for varying lengths of time (indicated at the bottom). After ribonuclease treatment, the crosslinked proteins were visualized by denaturing PAGE and autoradiography. SDS-PAGE of the purified Lsm1-7-Pat1 complexes and autoradiograph of the crosslinked proteins are shown in the left and right panels respectively.

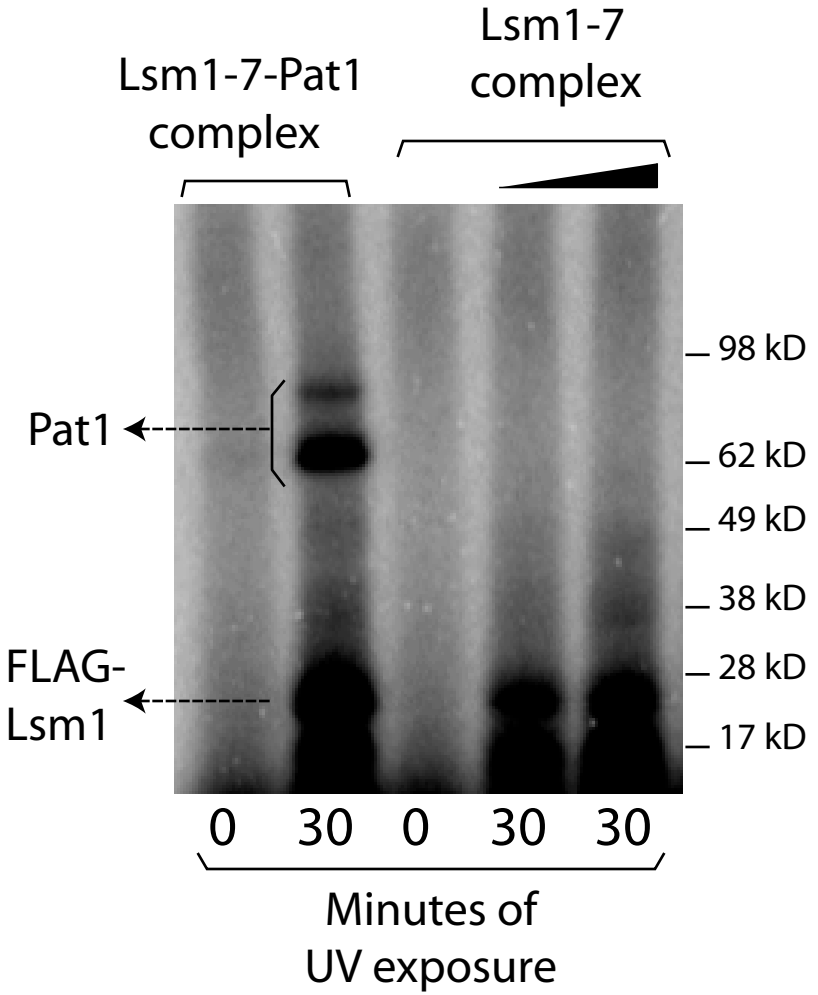
Figure S3. *A*, Longer exposure of the autoradiograph shown in Figure 4C is shown. *B*, *pat1*Δ cells bearing a *CEN* plasmid expressing Pat1 or Pat1-AA (Pat1 in which S456 and S457 are changed to Alanines) from native promoter or the empty vector were grown to log phase followed by extraction of the RNA from them and Northern analysis to visualize the *MFA2pG* mRNA.


Pat1C
BSA
BSA
Pat1C
Bound RNA
Unbound RNA
PGK1 RNA
PGK1-A5 RNA

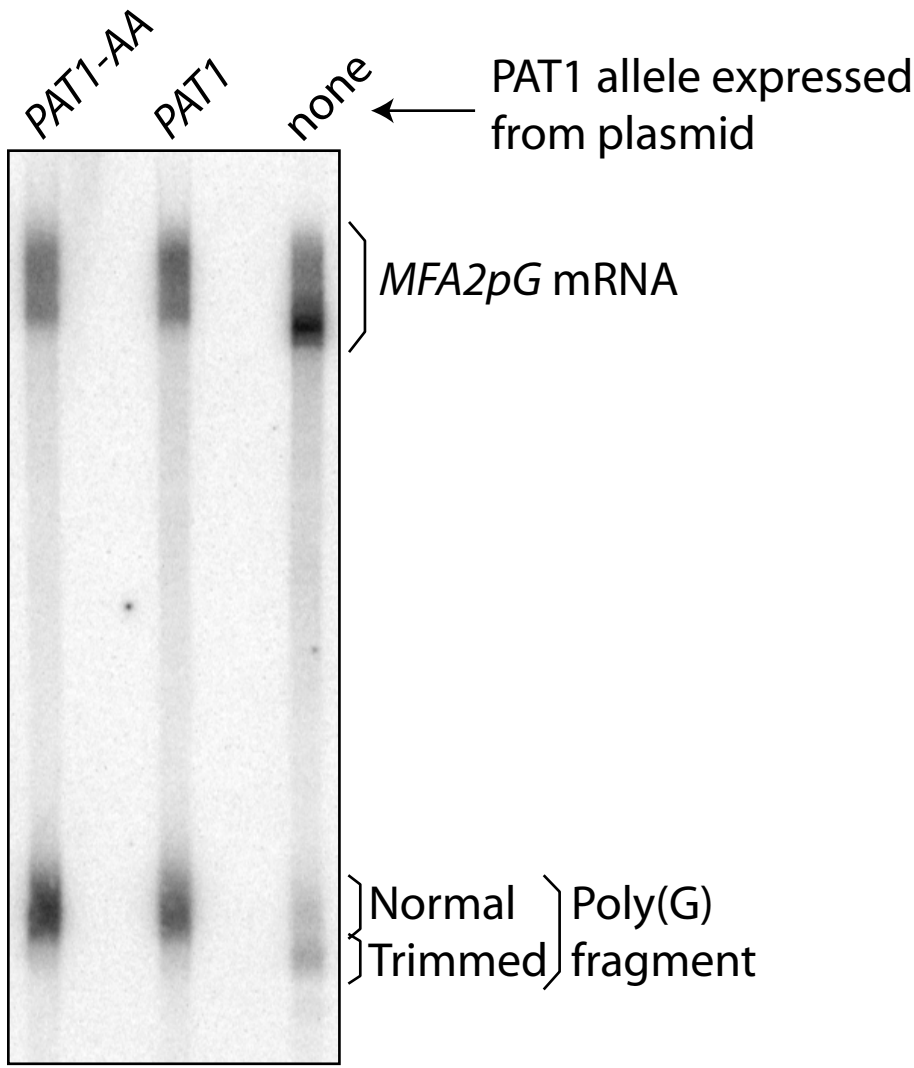

0.8
0.4
0.0
% RNA bound
PGK1 RNA
PGK1-A5 RNA
0
500
1000
Protein conc. (nM)


Strain from which the wild type complex was purified
LSM5-6xHis
LSM7-6xHis
LSM7-6xHis
LSM5-6xHis
98 kD
62 kD
49 kD
38 kD
28 kD
17 kD
14 kD
Pat1
FLAG-Lsm1
Lsm4
Lsm7-6xHis
Lsm7
Lsm2, Lsm3,
Lsm5-6xHis, Lsm6
Lsm2, Lsm3,
Lsm5, Lsm6
0
30
30
0
Minutes of
UV exposure

A.


Lsm1-7-Pat1 complex
Lsm1-7 complex
Pat1
FLAG-Lsm1
98 kD
62 kD
49 kD
38 kD
28 kD
17 kD
0 30 0 30 30
Minutes of UV exposure

B.


PAT1-AA
PAT1
none
PAT1 allele expressed from plasmid
MFA2pG mRNA
Normal
Trimmed
Poly(G) fragment