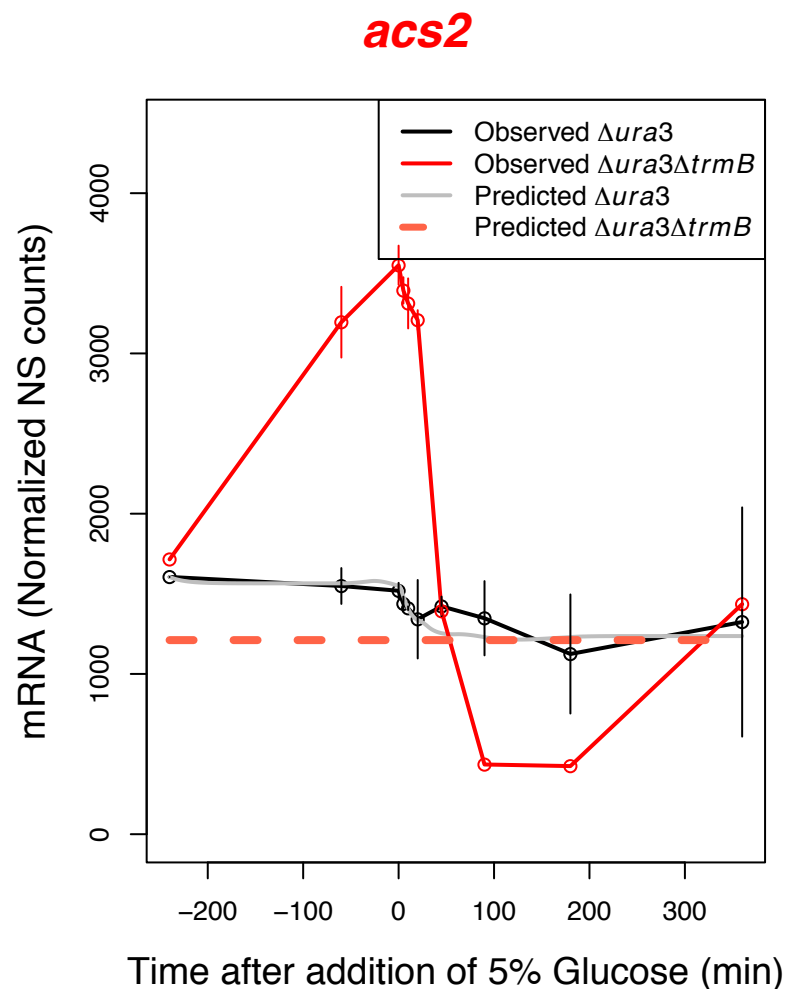
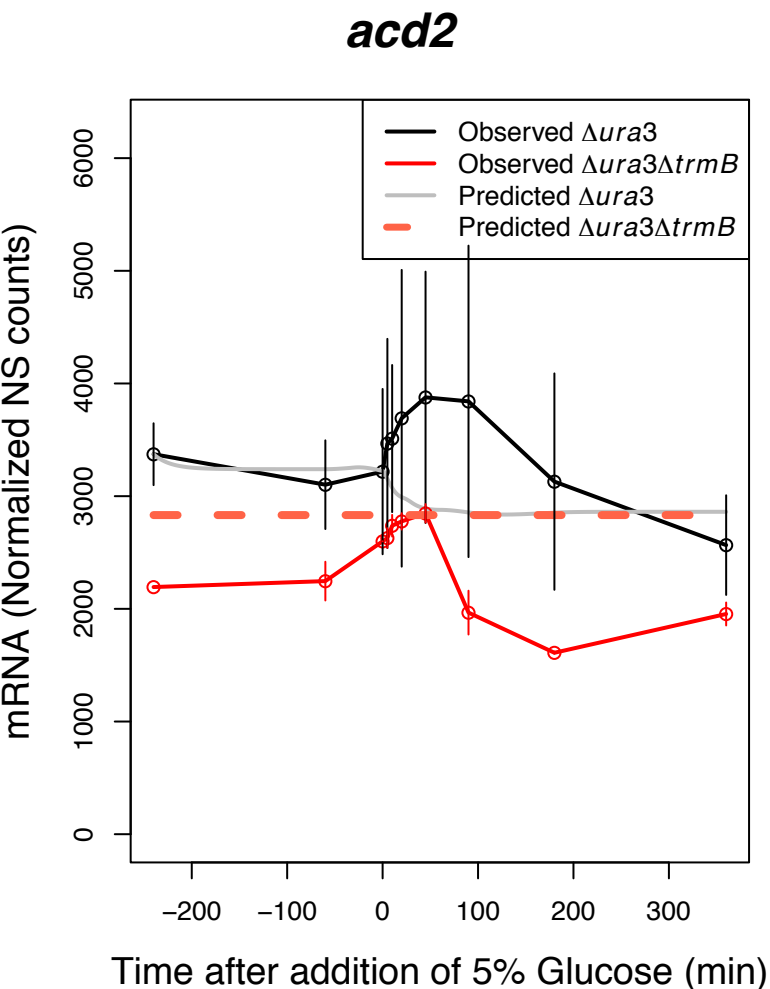
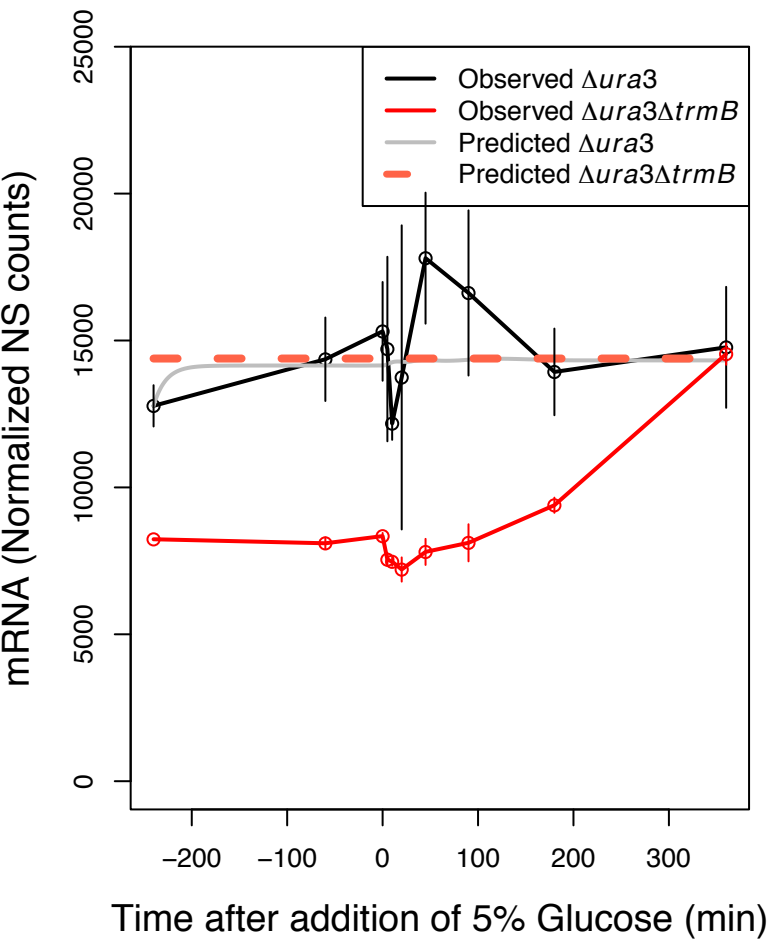


## Supplementary Figure 1

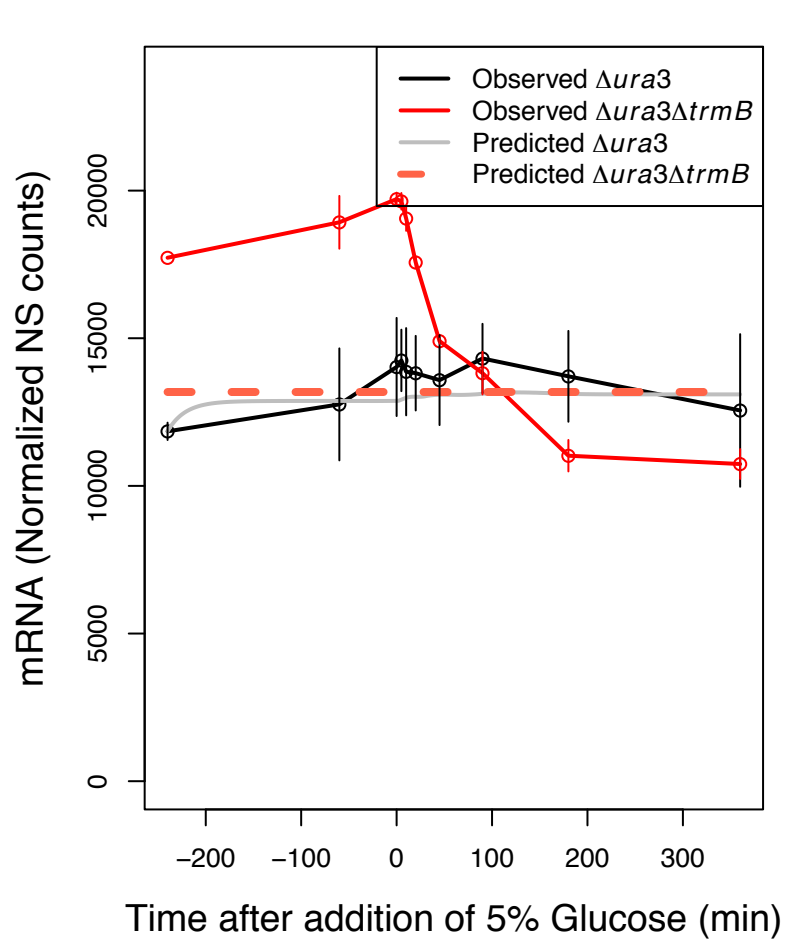
Supplementary Figure 1. ODE model fit to NanoString gene expression data in response to glucose  $\Deltaura3$  (parent strain) and  $\Deltaura3\Delta trmB$  mutant background for all 100 genes in the dataset. Black lines represent mRNA level in the  $\Deltaura3$  strain. Red lines represent mRNA level in the  $\Deltaura3\Delta trmB$  strain. The grey line and the dotted orange line show model fits for  $\Deltaura3$  and  $\Deltaura3\Delta trmB$  respectively. Error bars are standard error from the average of 2 biological replicates of the gene expression data. Title color matches the  $\Deltaura3$  clusters in Figure 4.



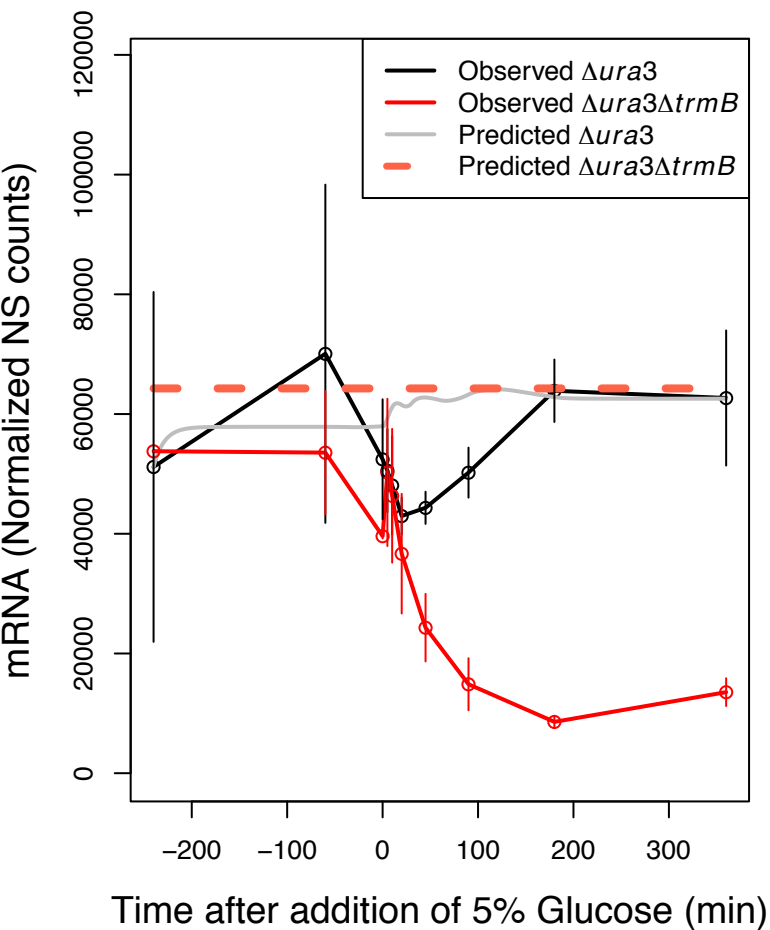
### *acs3*



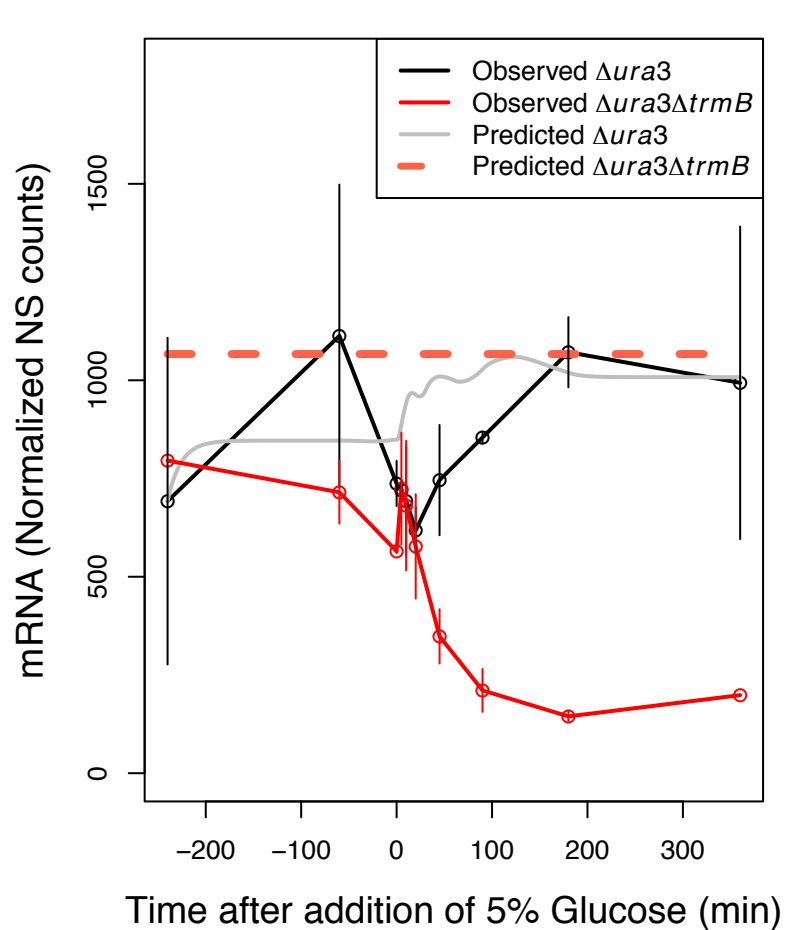
### *aldY2*



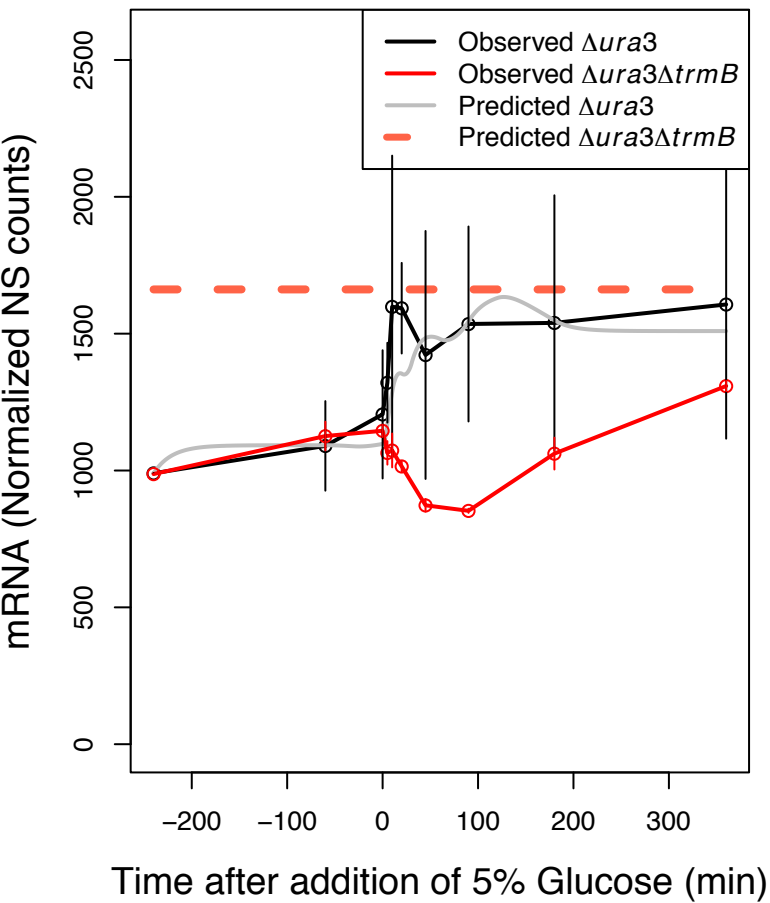
### *argG*



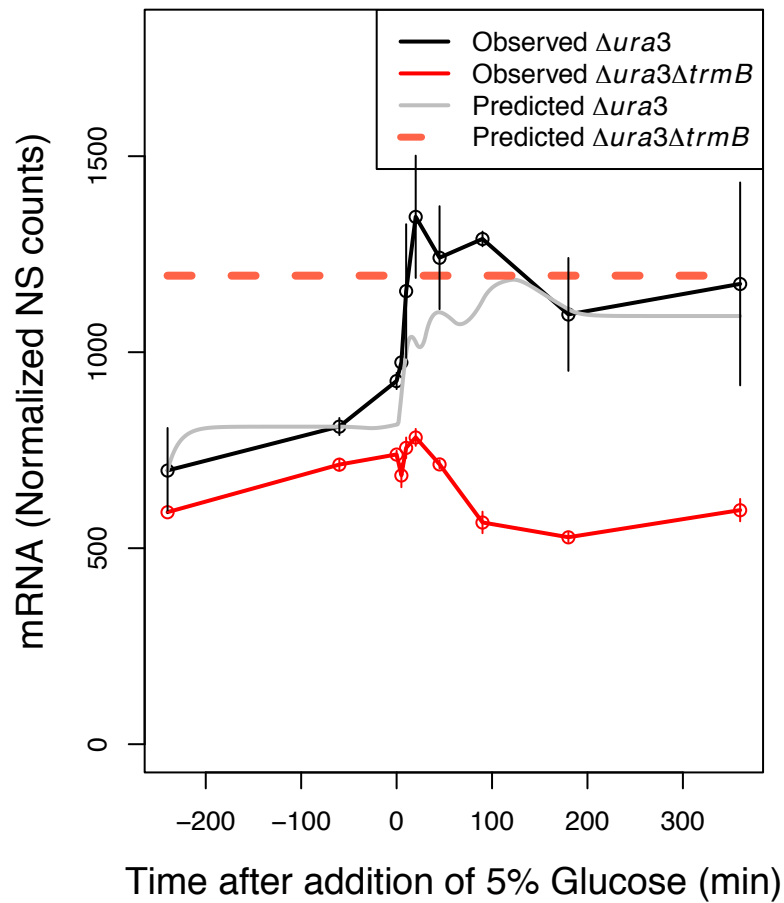
### *argH*



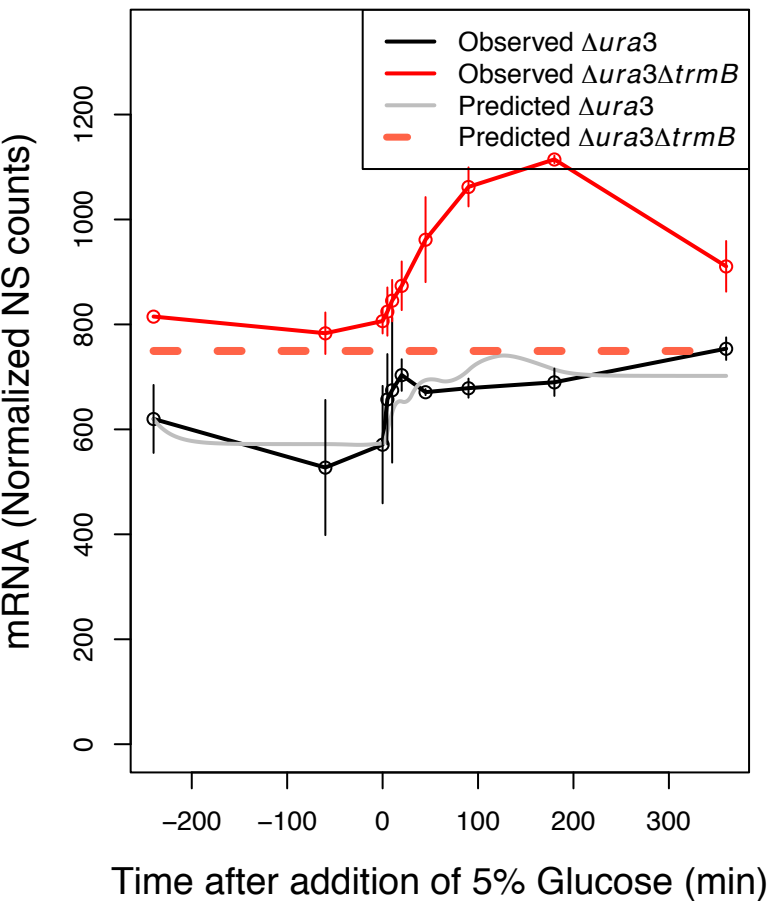
### *aroC*



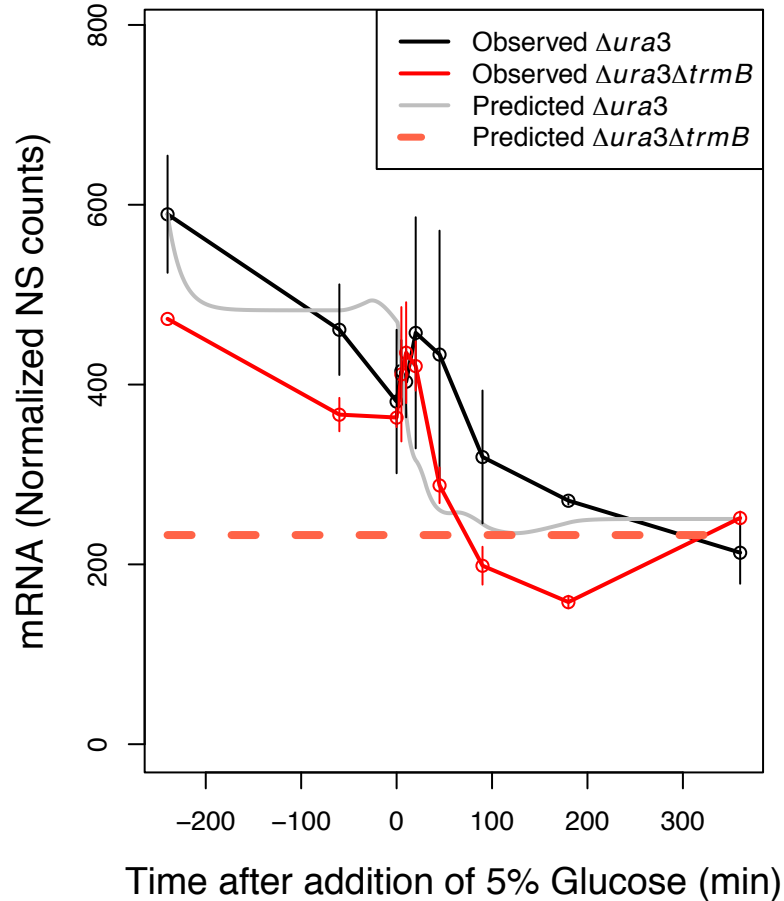
### *aroE*



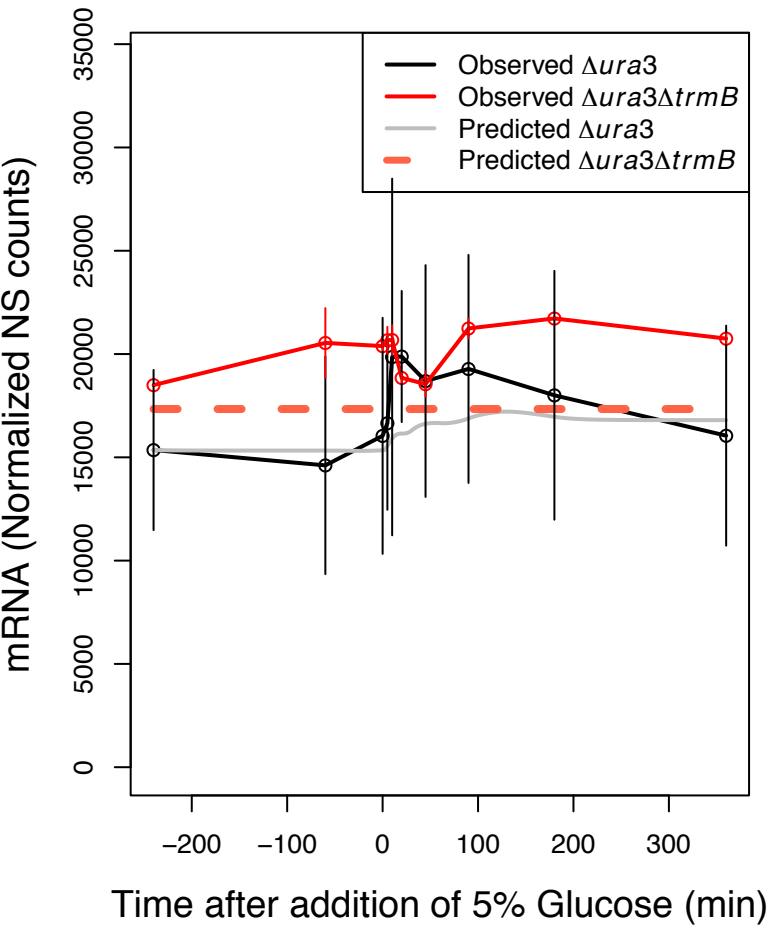
### *asnA*



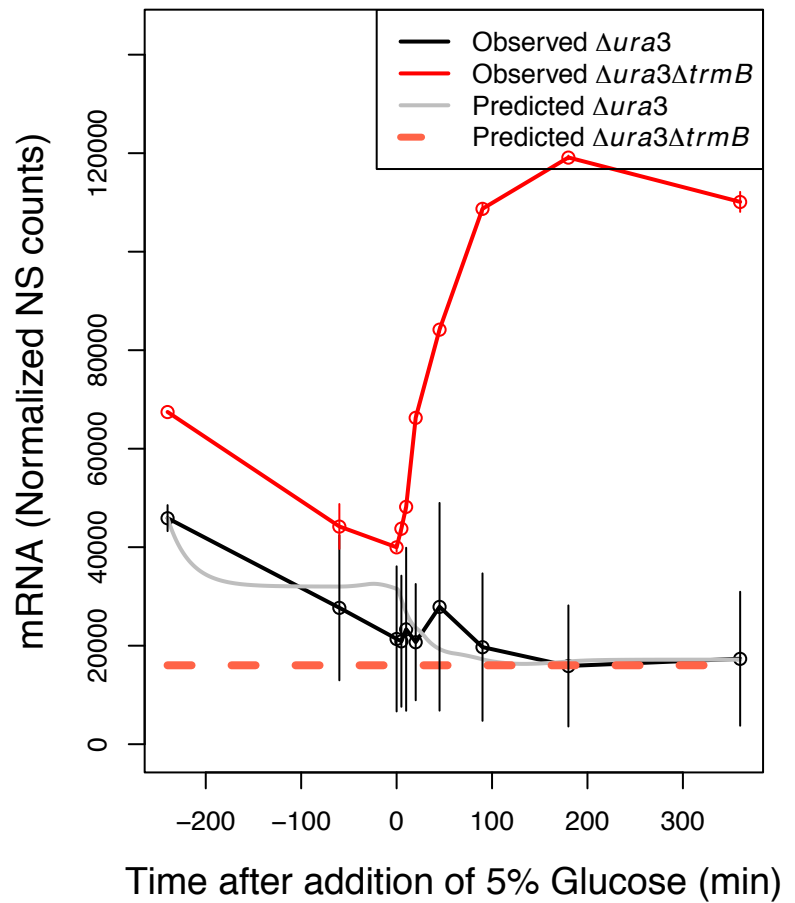
### *aspC2*



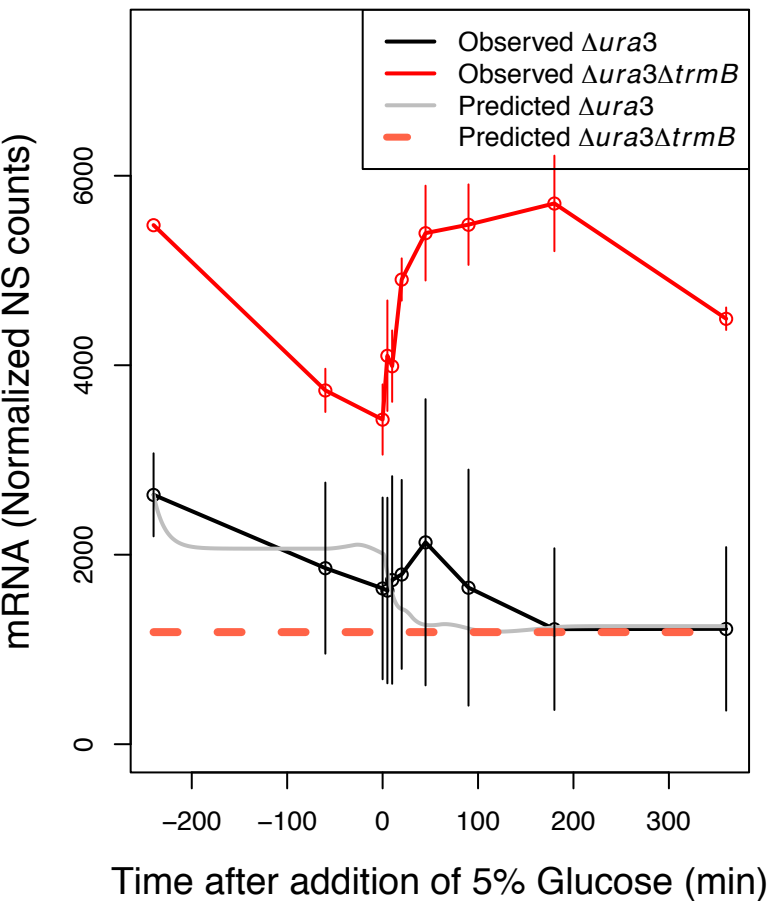
### *can*



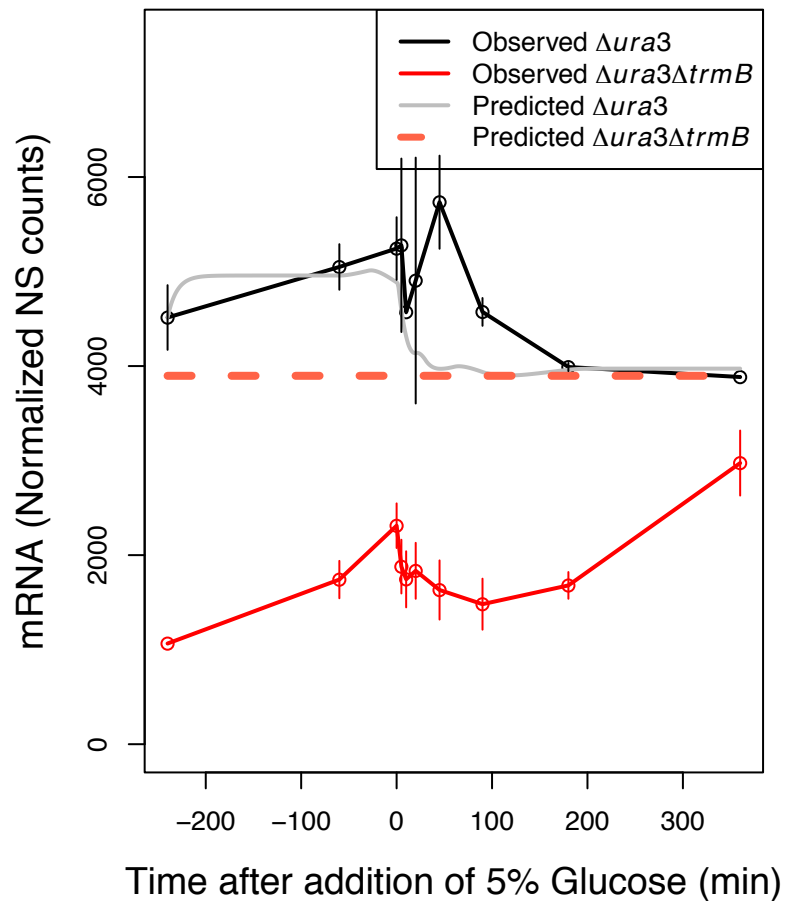
### *carA*



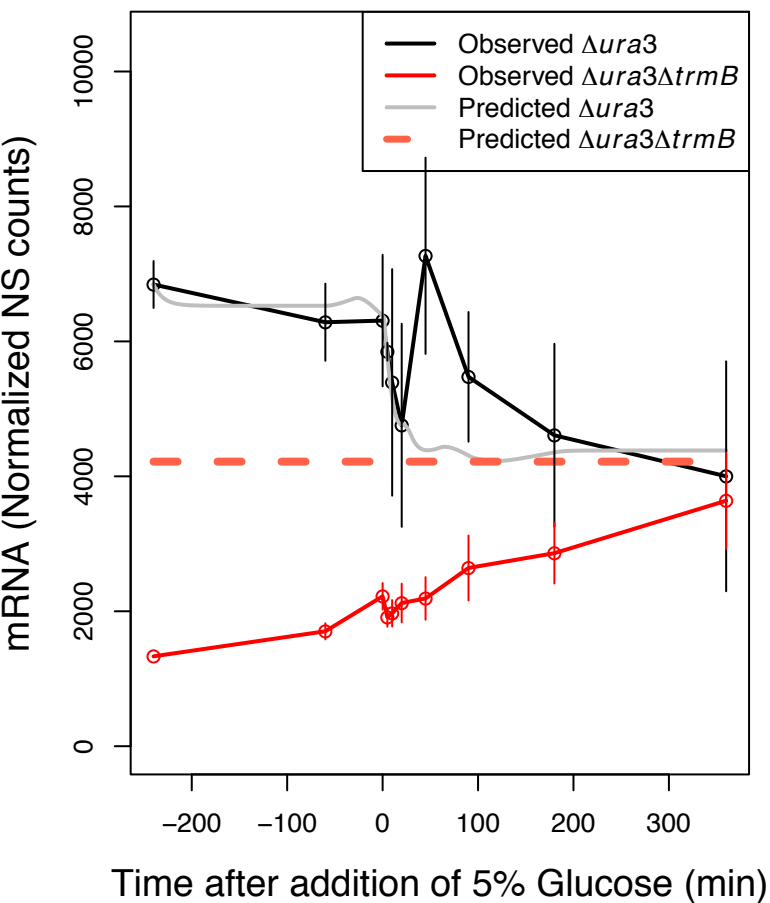
### *carB*



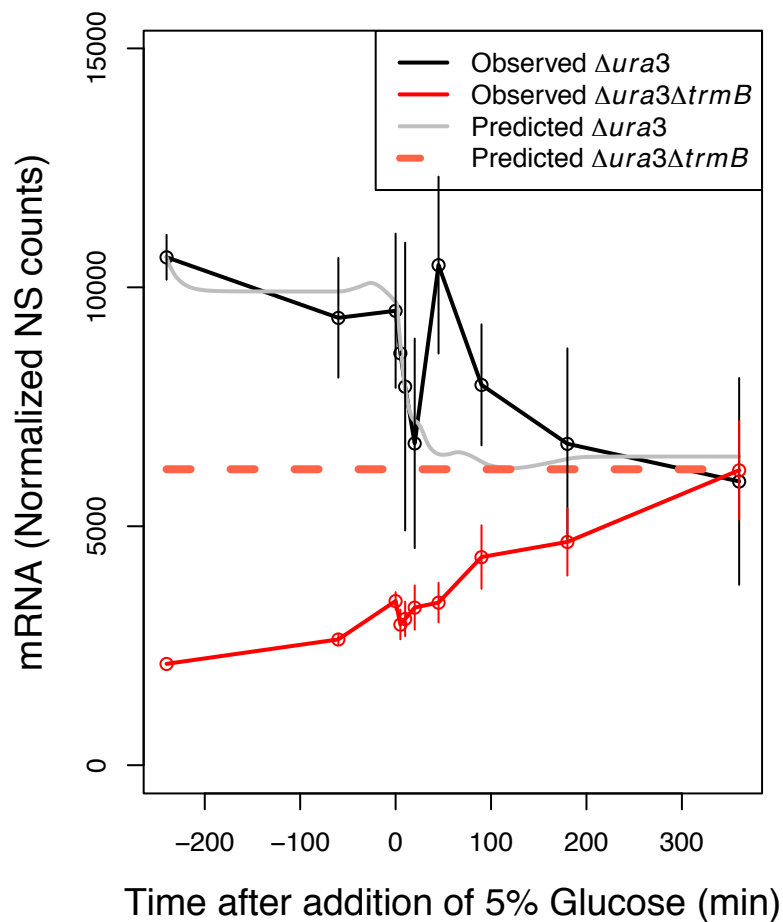
### *cbiC*



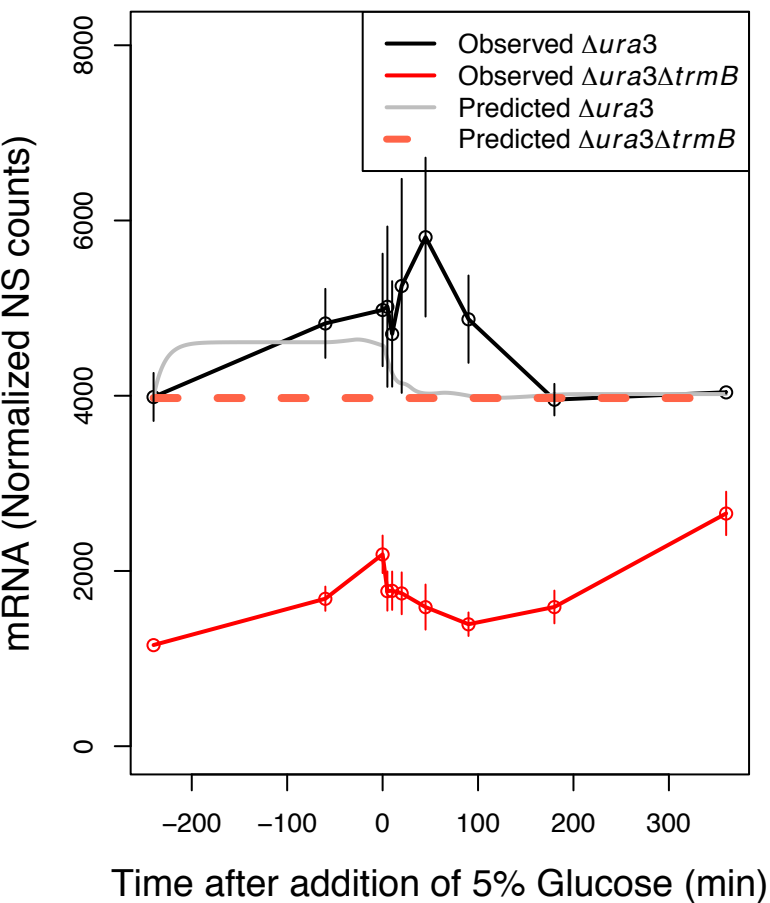
### *cbiF*



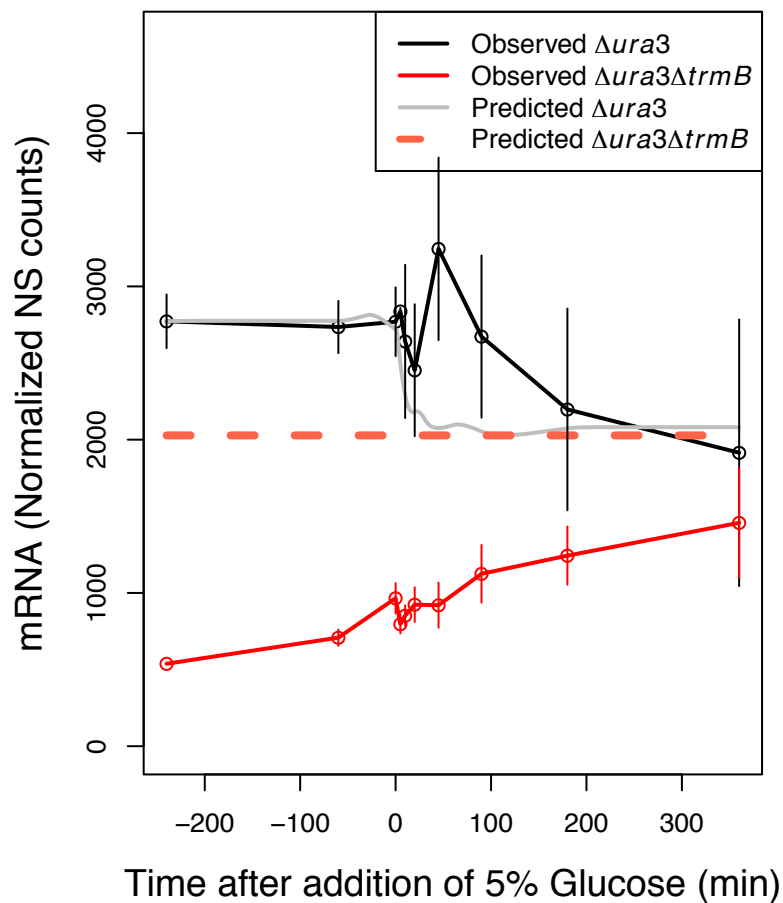
### *cbiG*



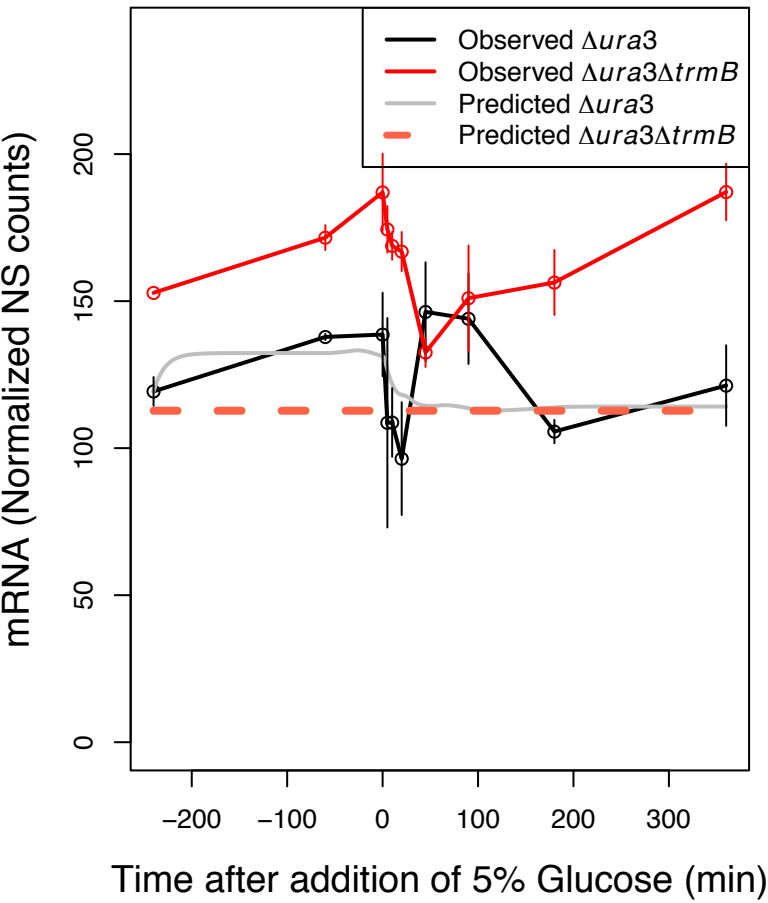
### *cbiJ*



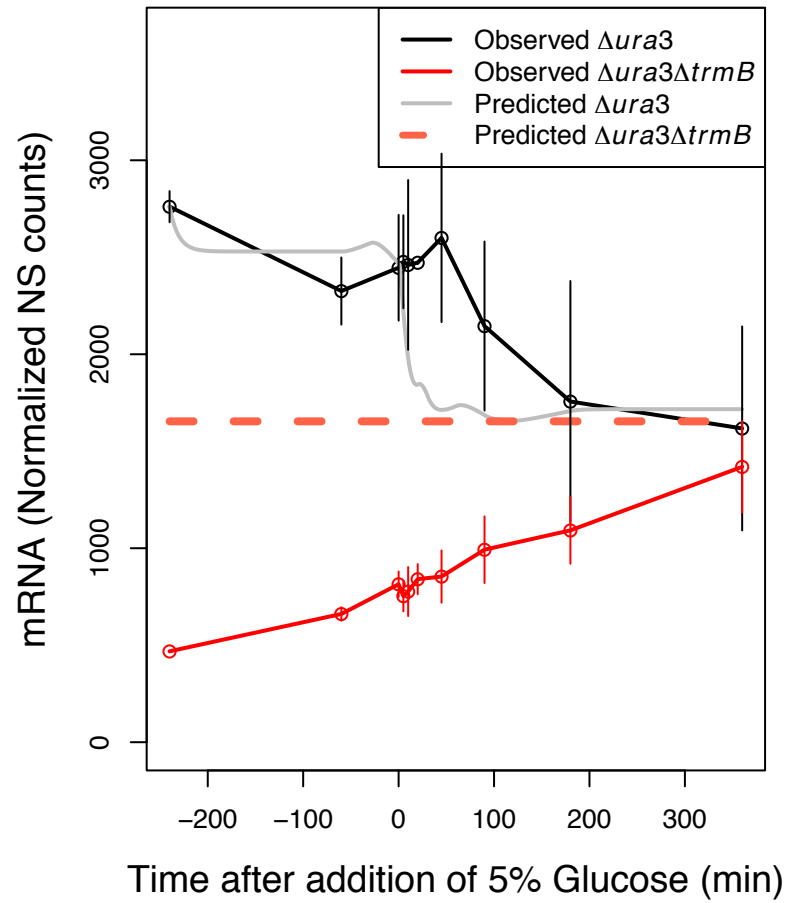
### *cbiL*



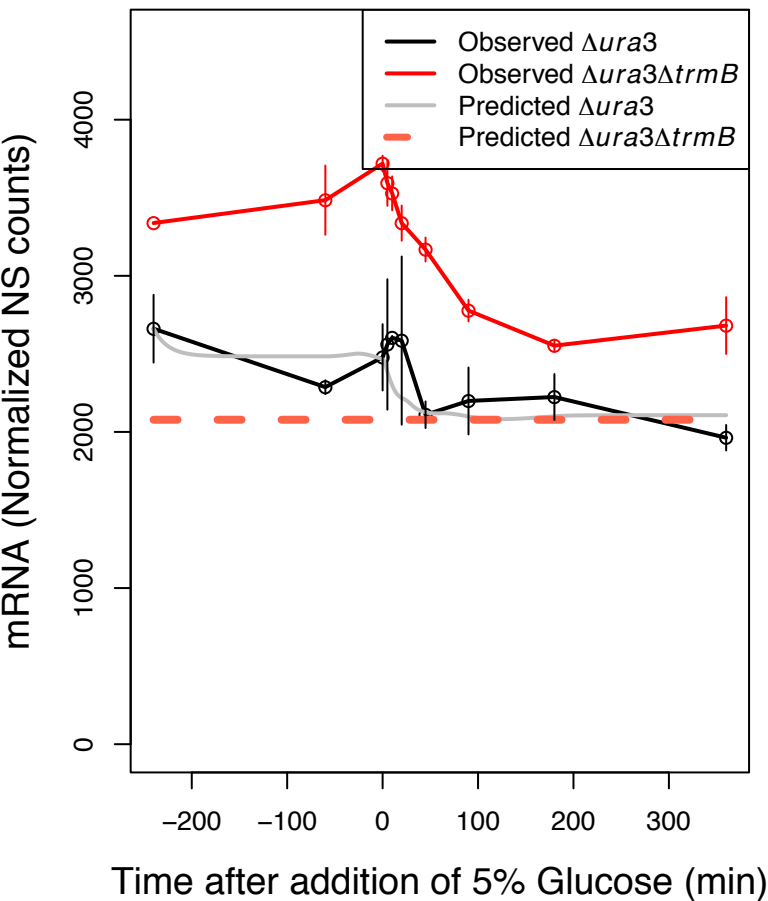
### *cbiP*



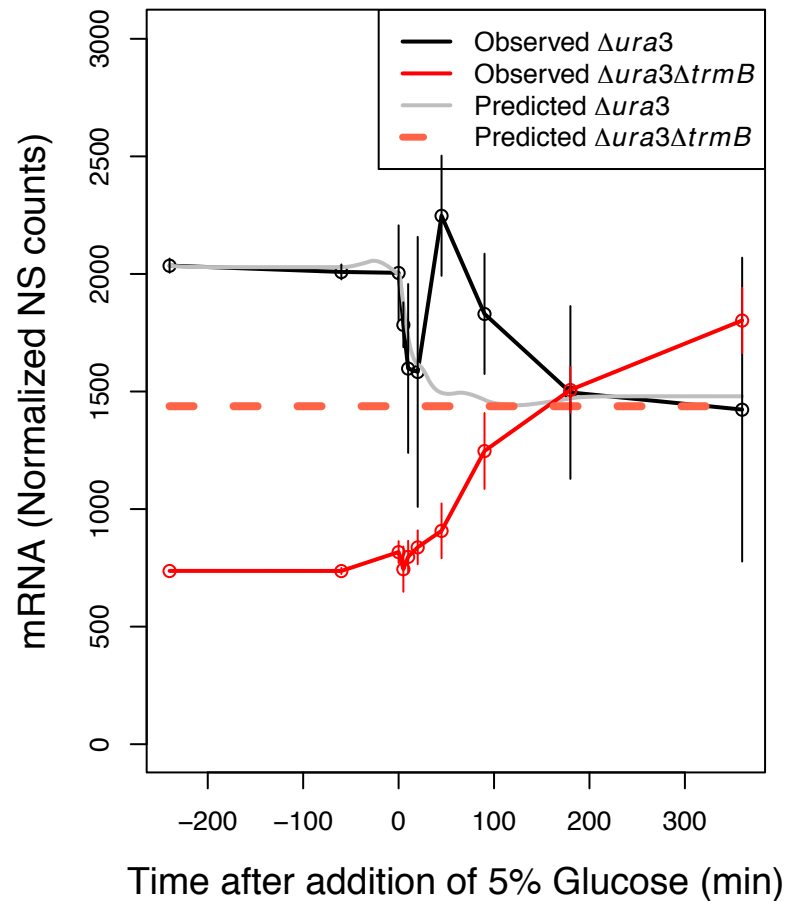
### *cbiT*



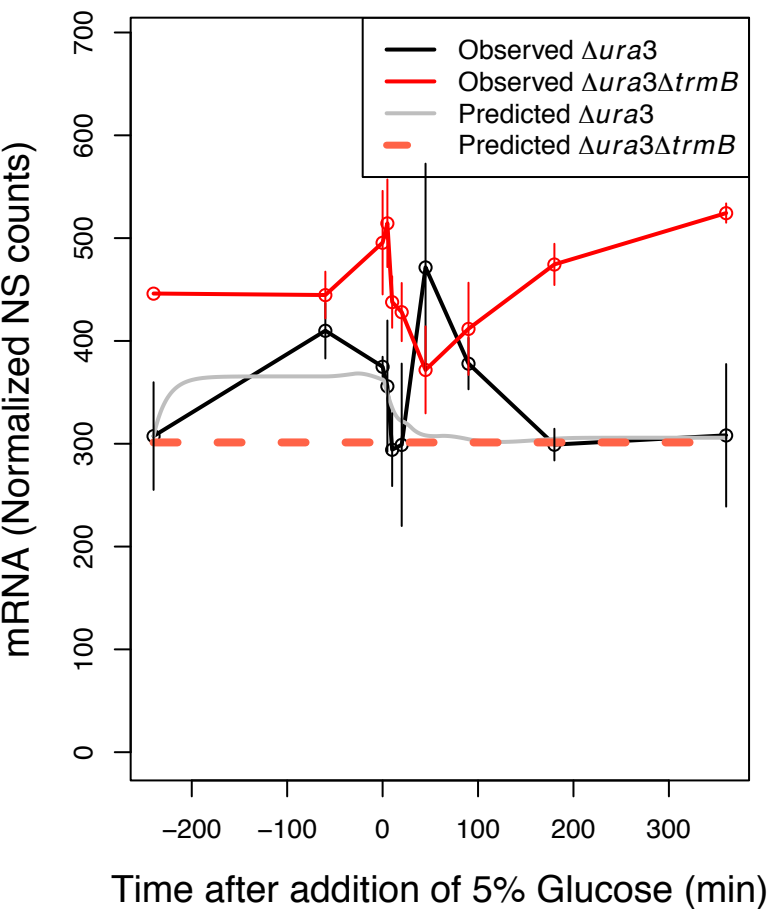
### *citZ*



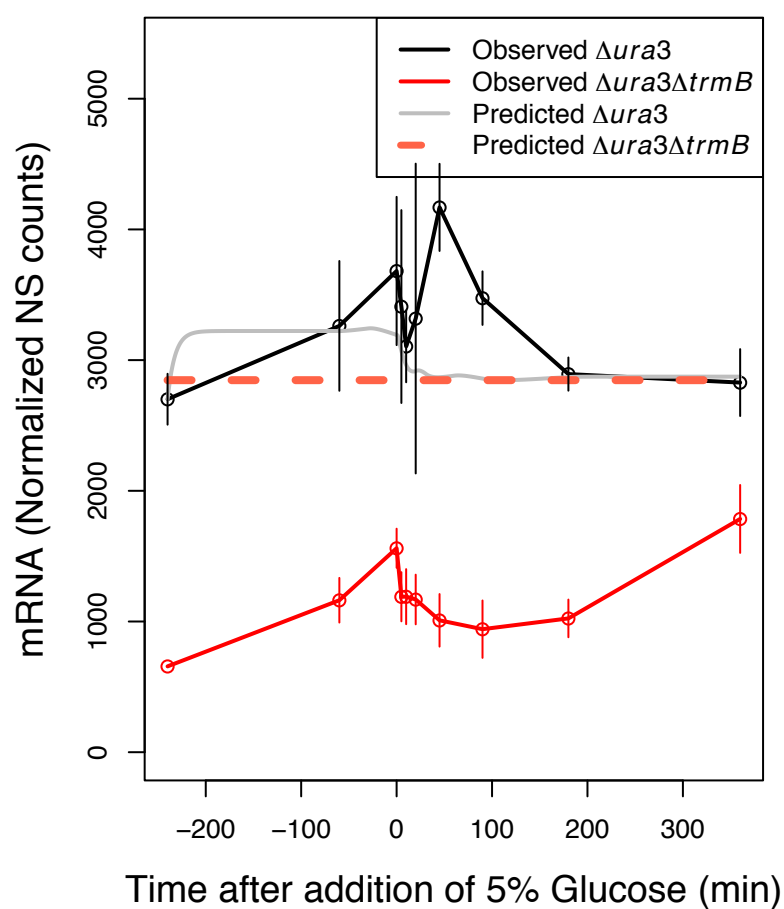
### *cobH*



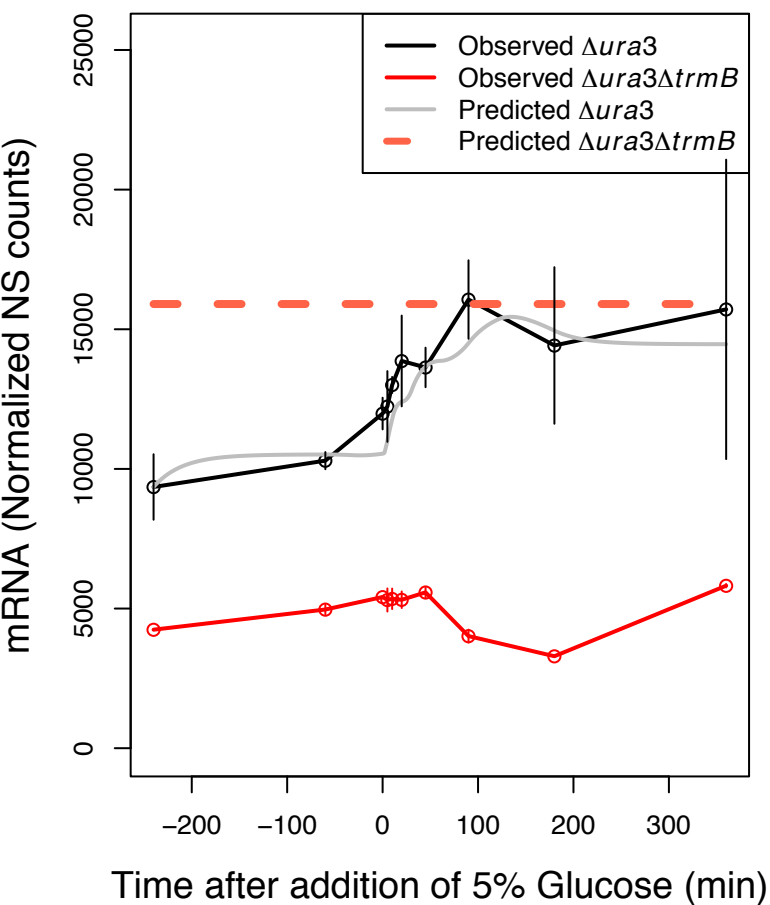
### *cobI*



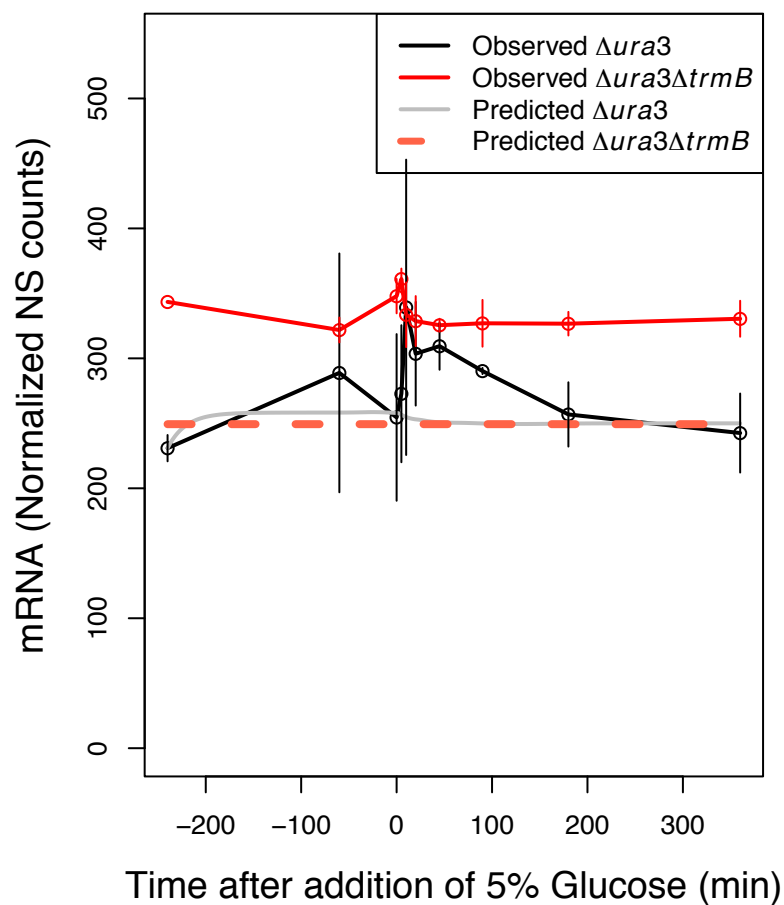
### *cobN*



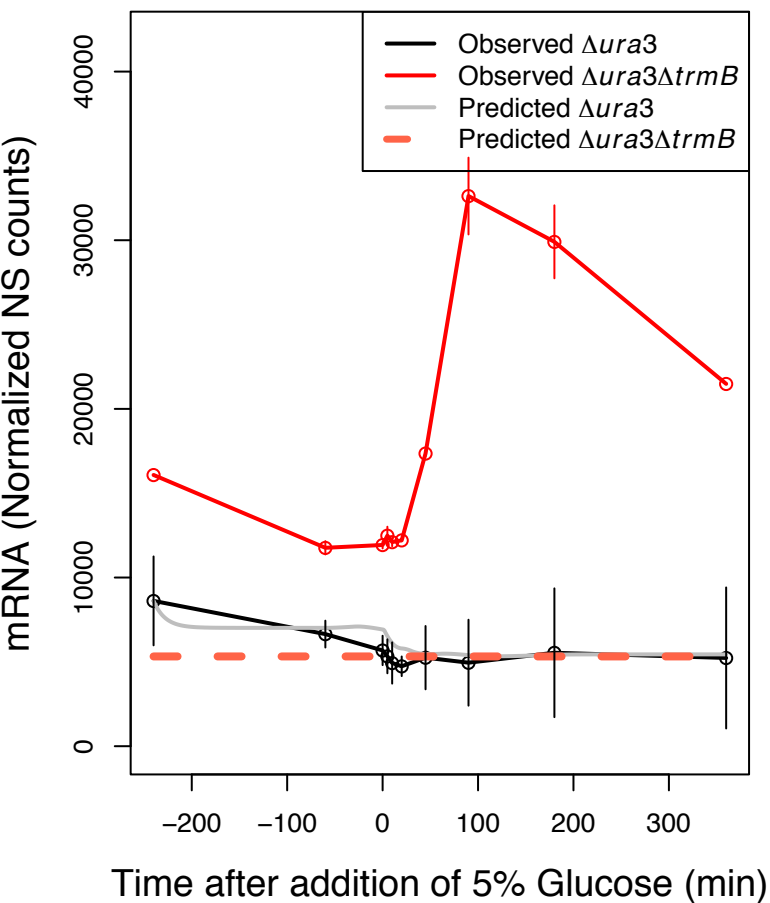
### *cxp*



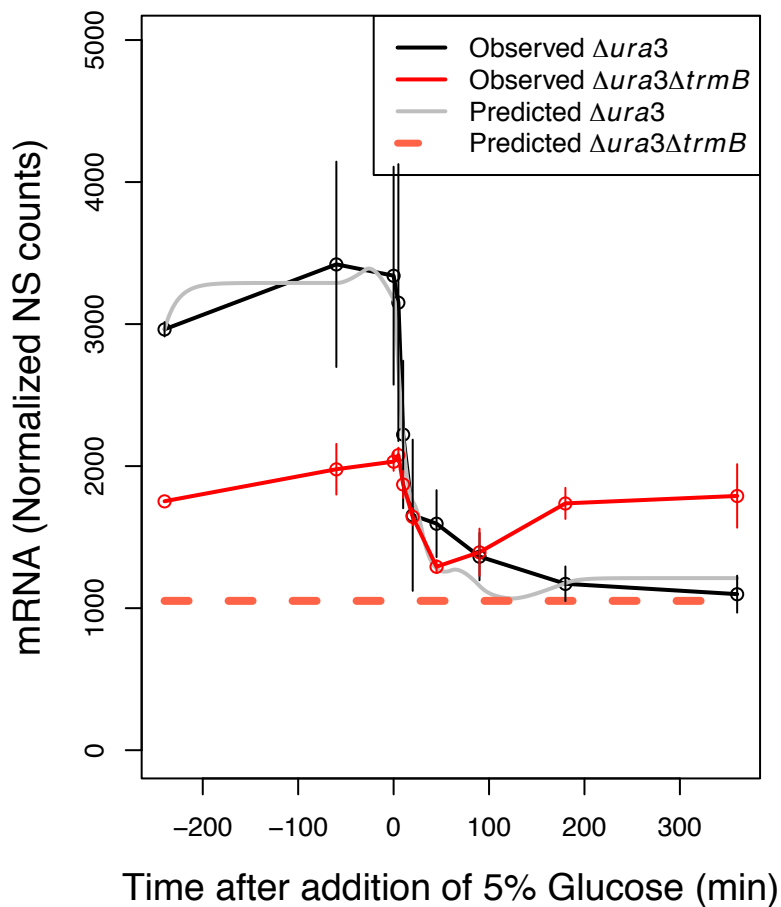
### *dapA*



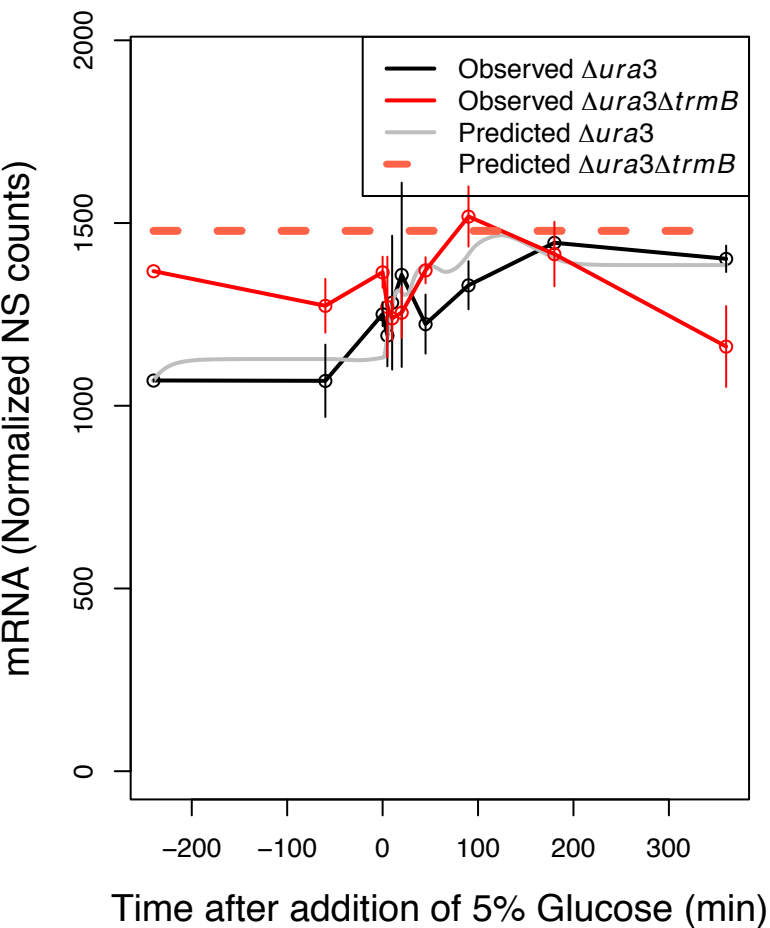
### *eno*



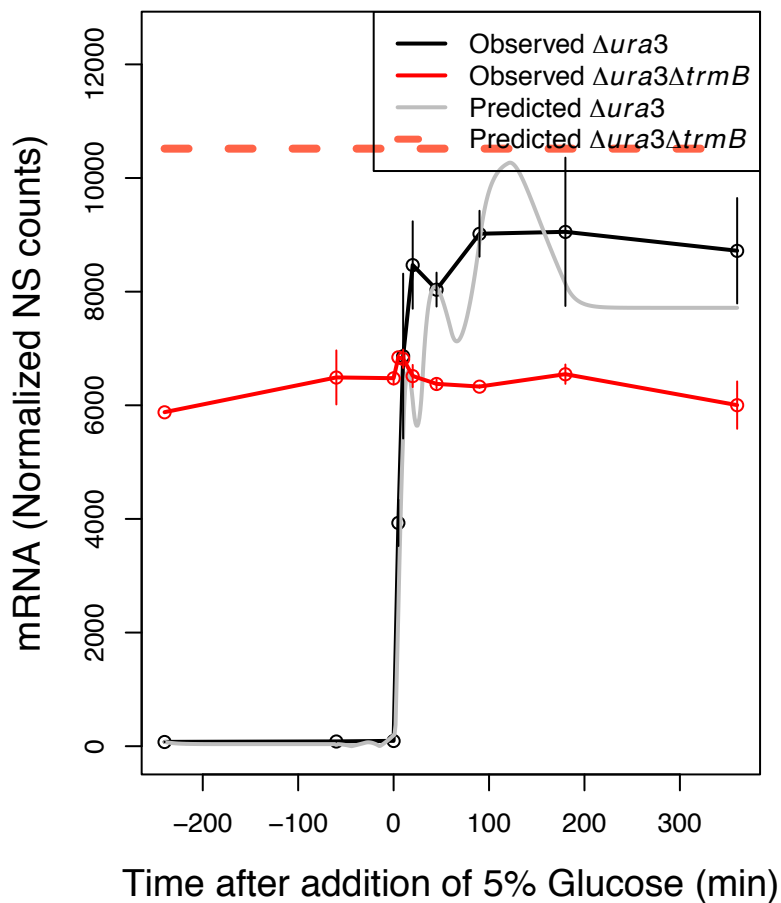
### *fbp*



### *fumC*

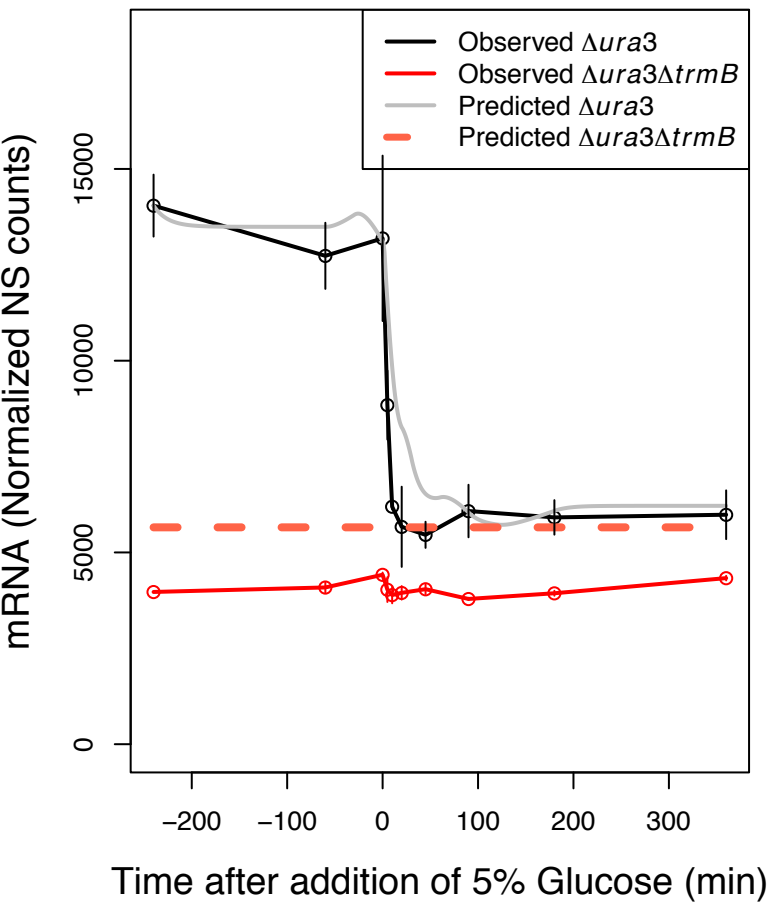


### *gap*

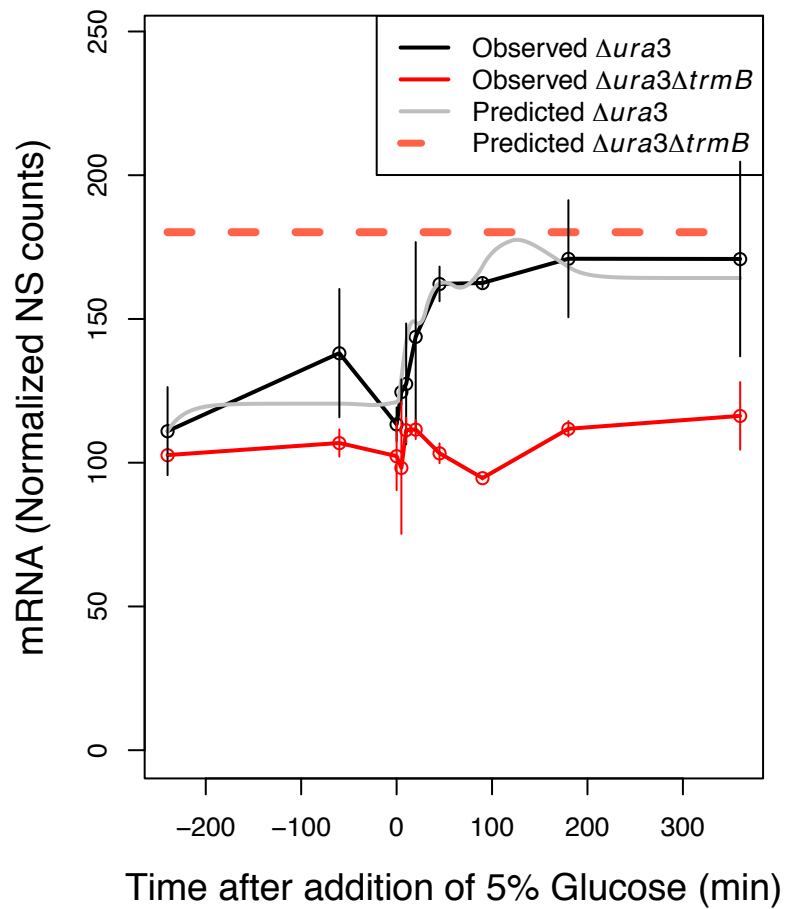




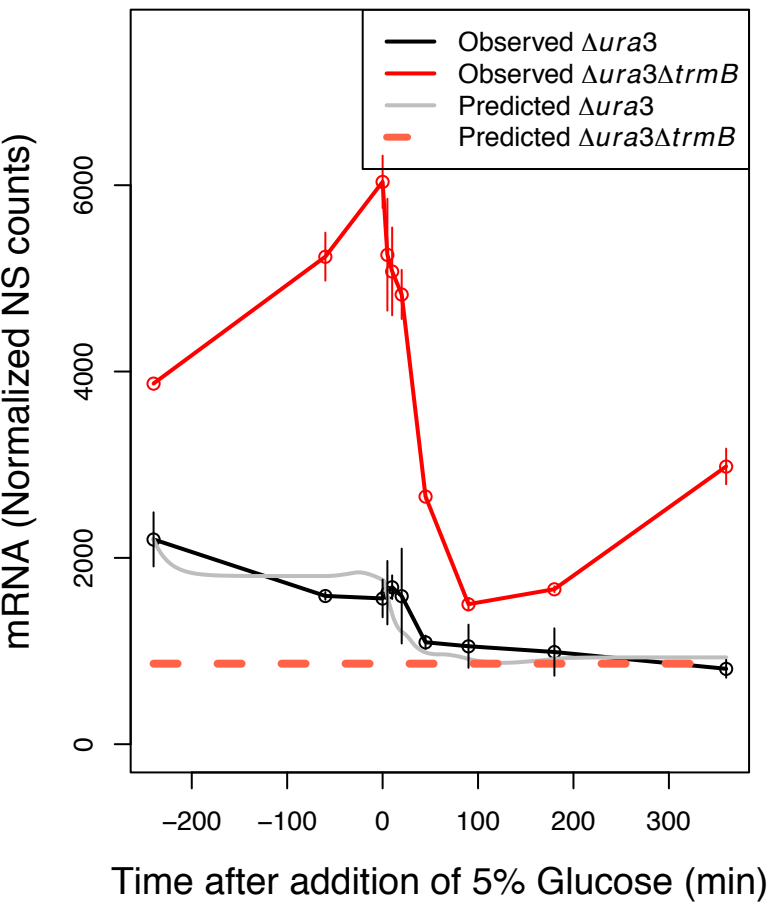
### *gapB*



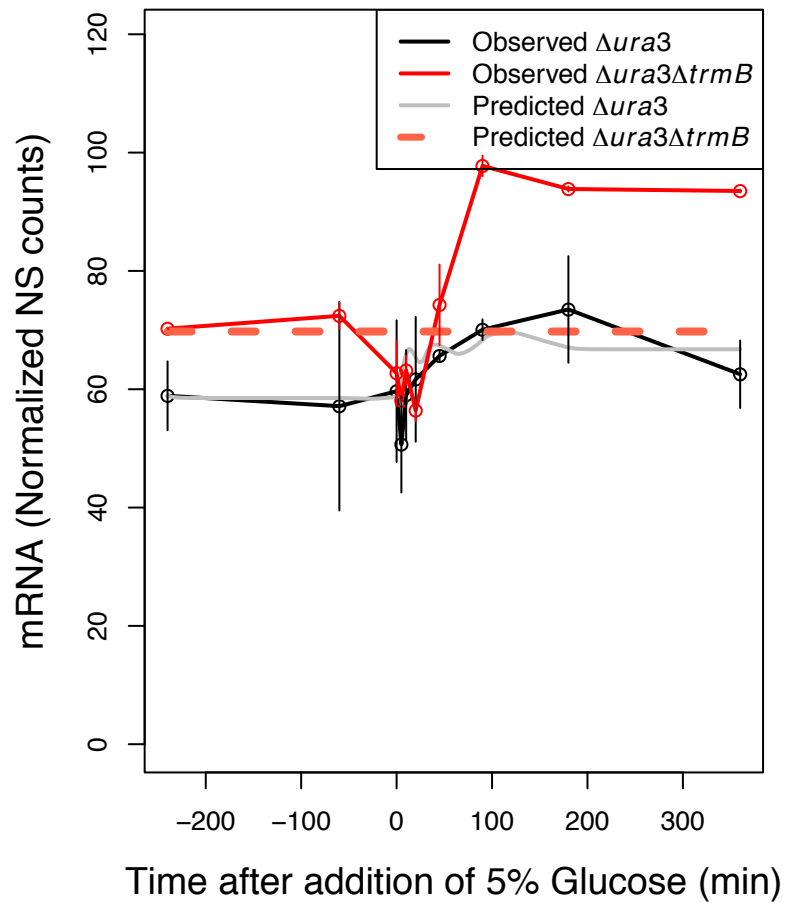
### *gcd*



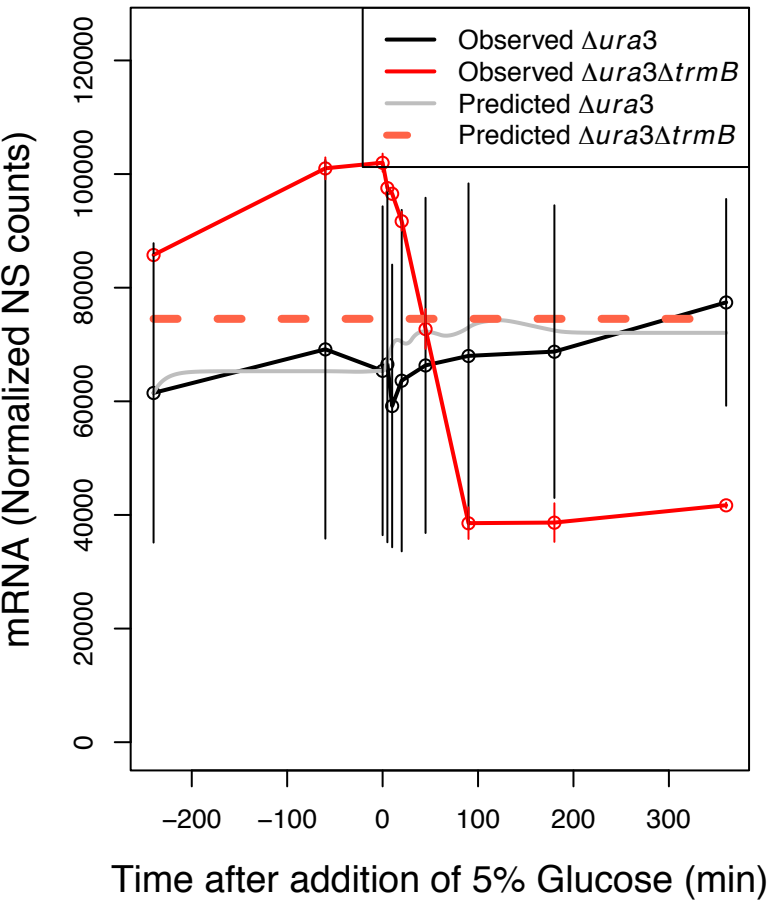
### *gdhA1*



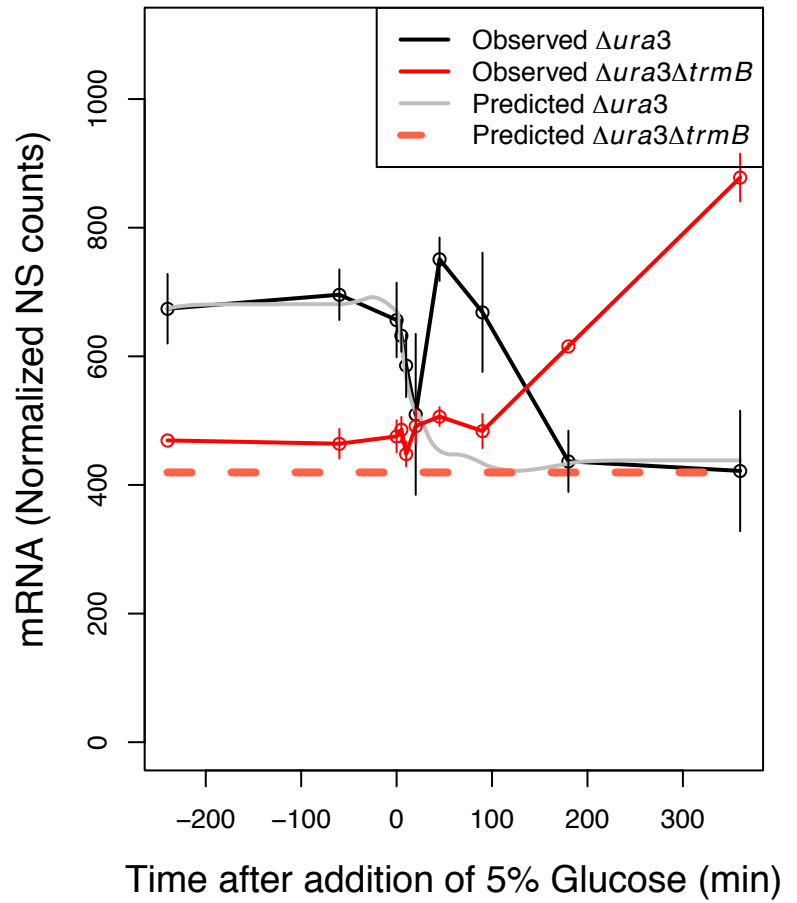
### *gdhA2*



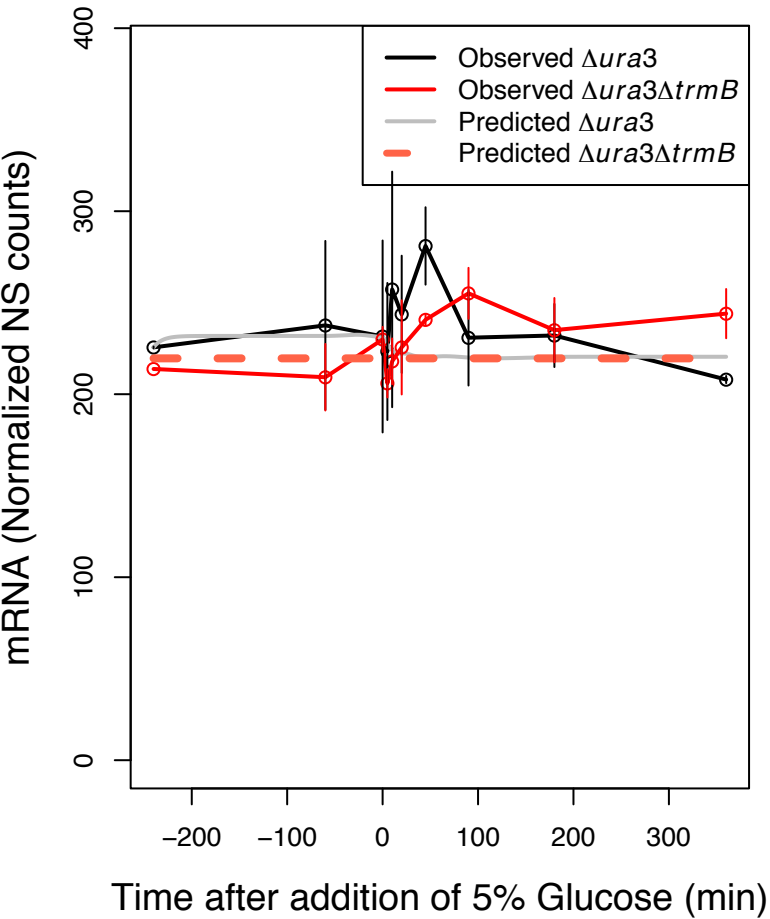
### *gdhB*



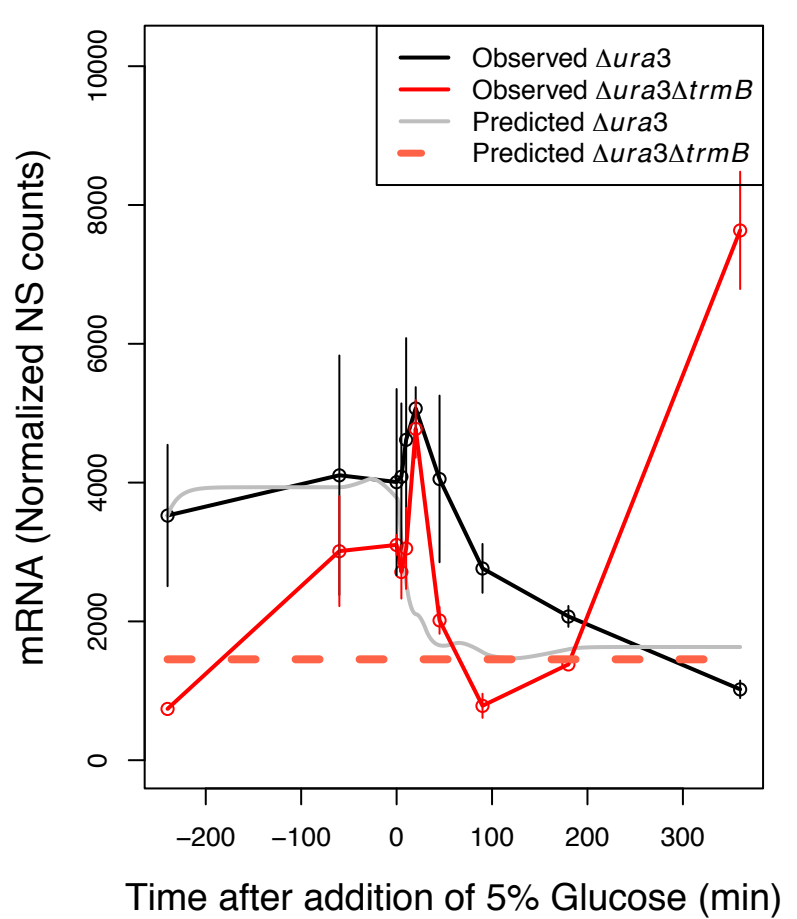
### *glcD*



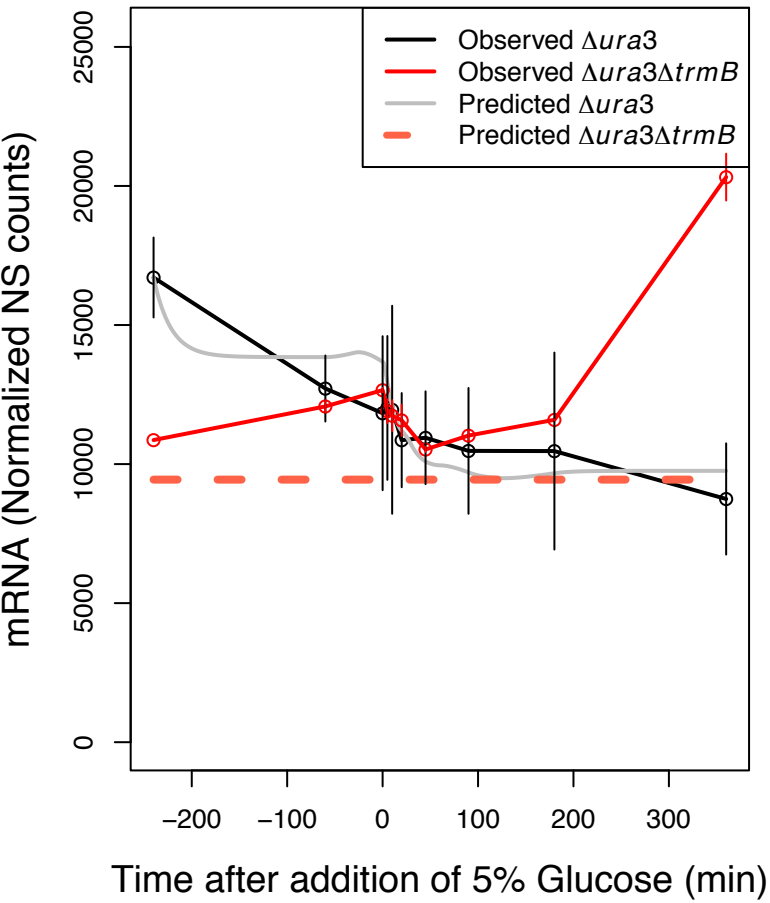
### *glcK*



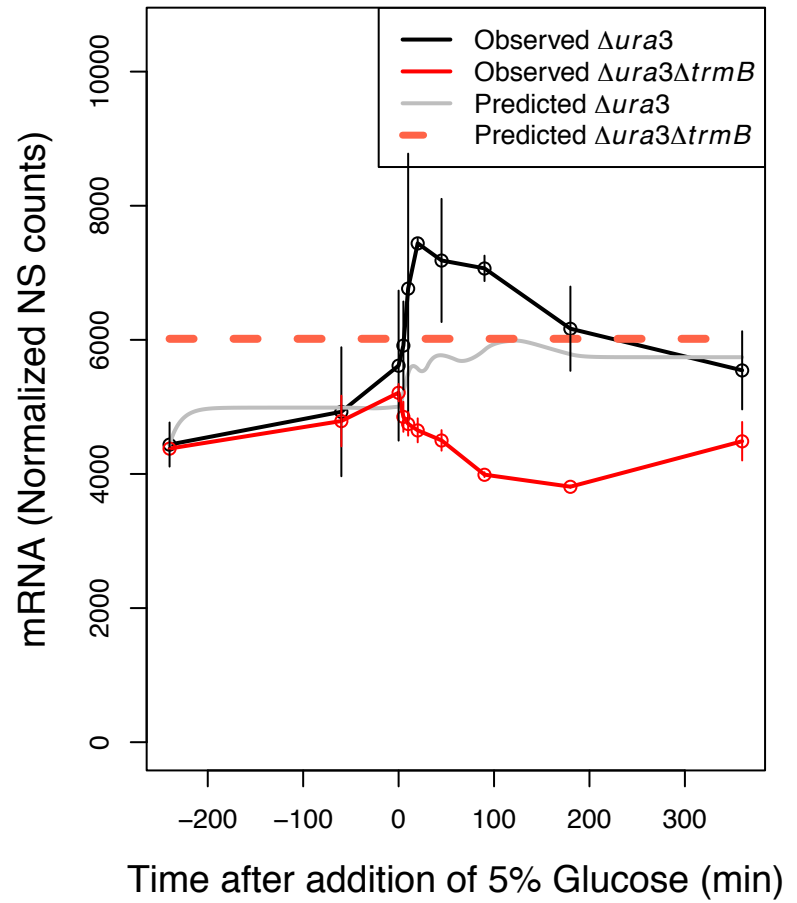
### *glnA*



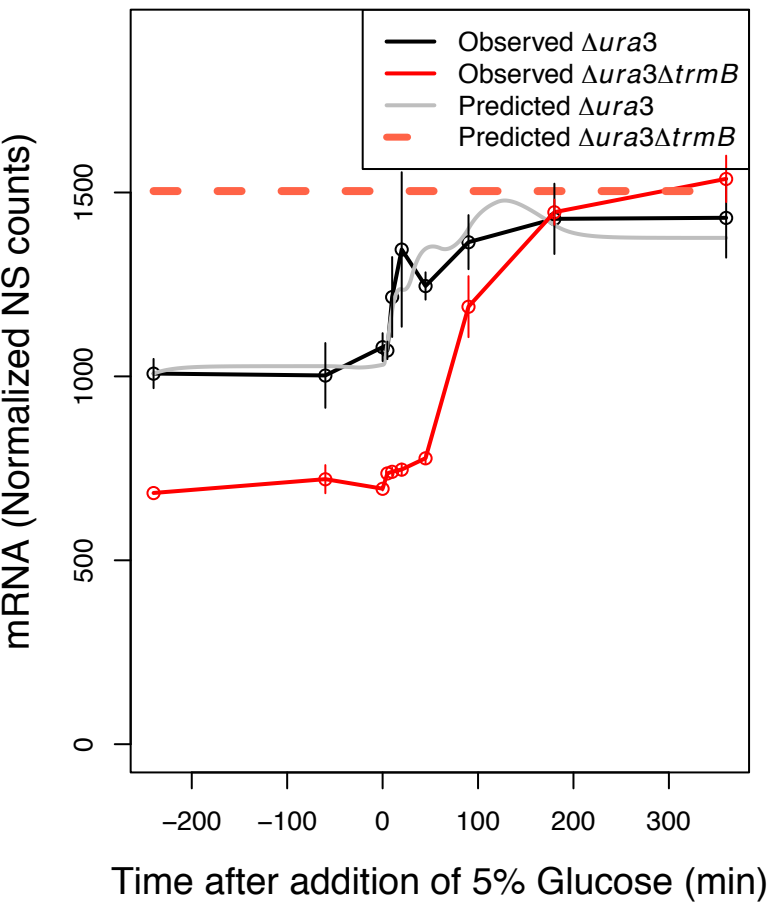
### *glpK*



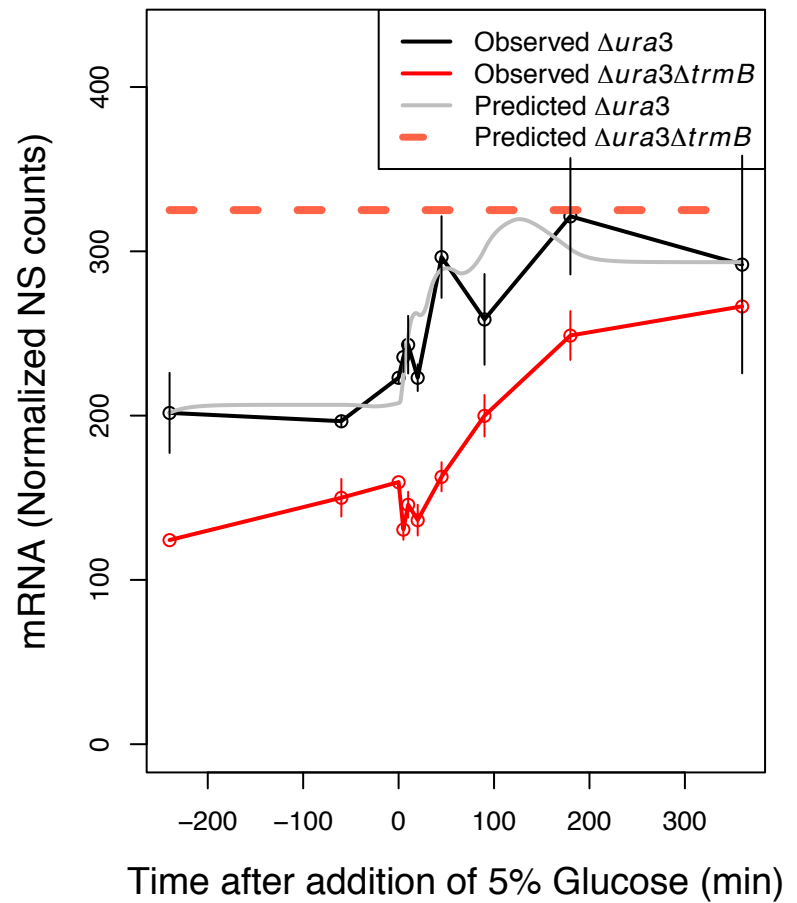
### *glyA*



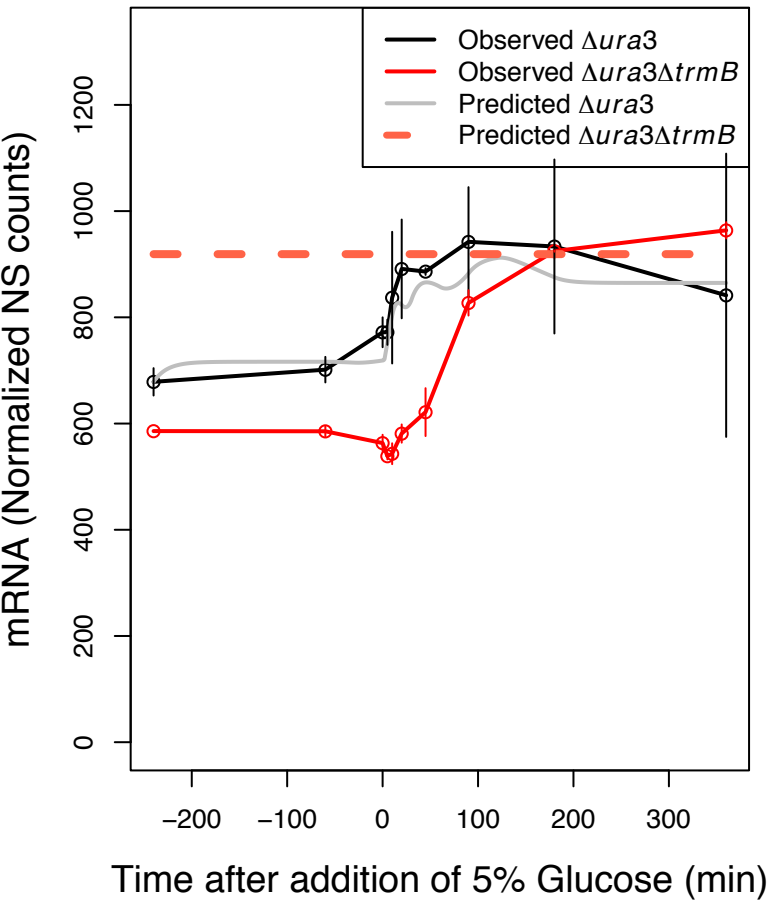
### *gpdA2*



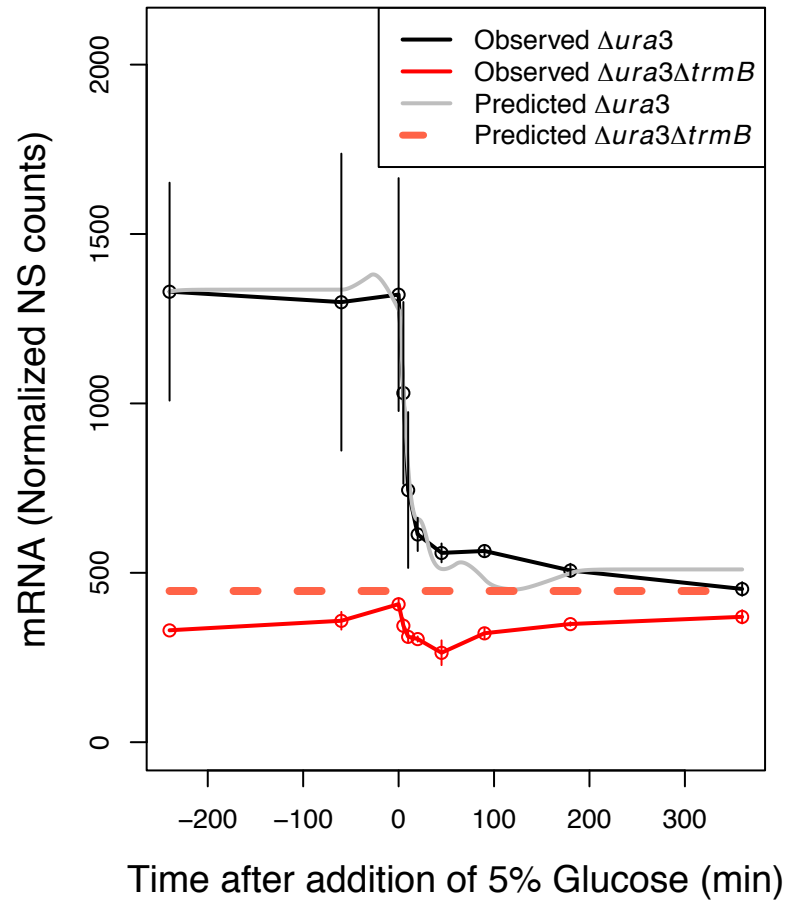
### *gpdB*



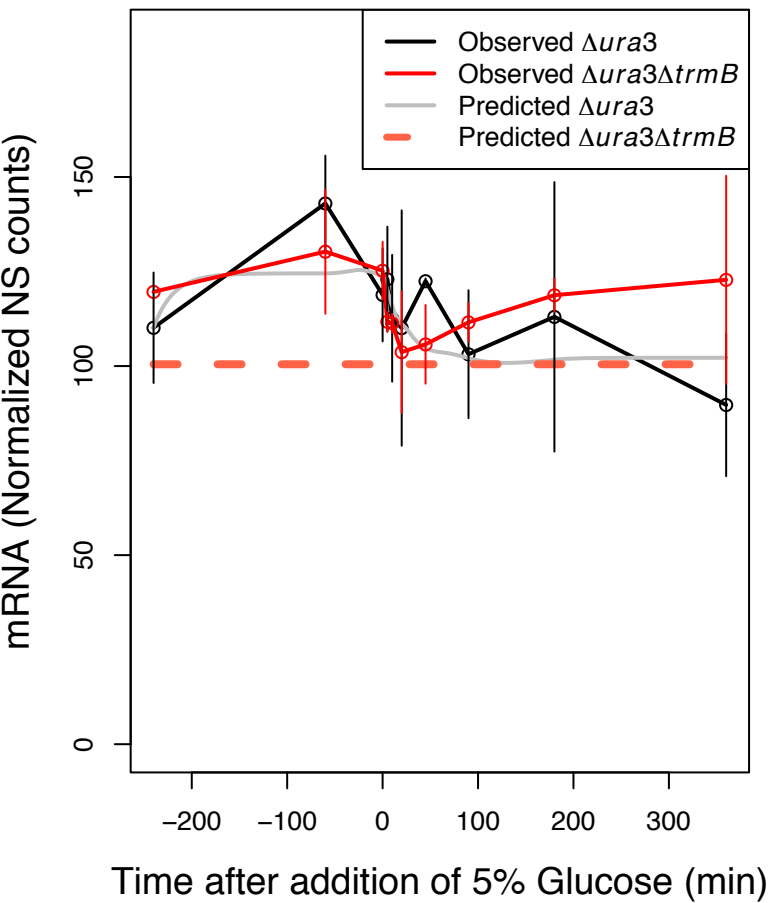
### *gpdC*



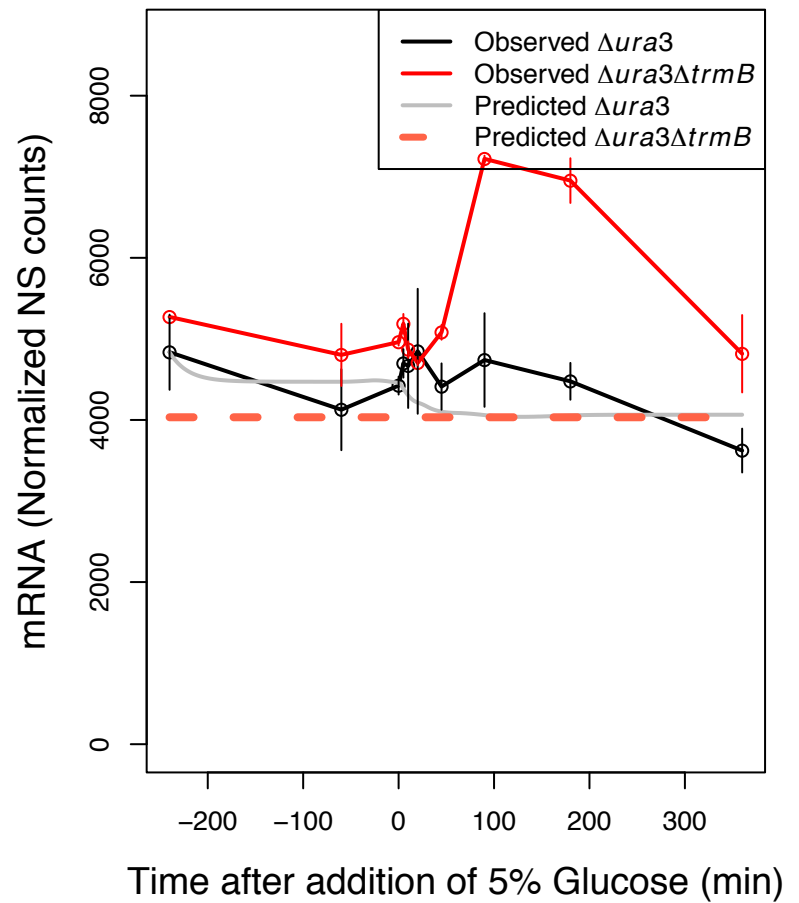
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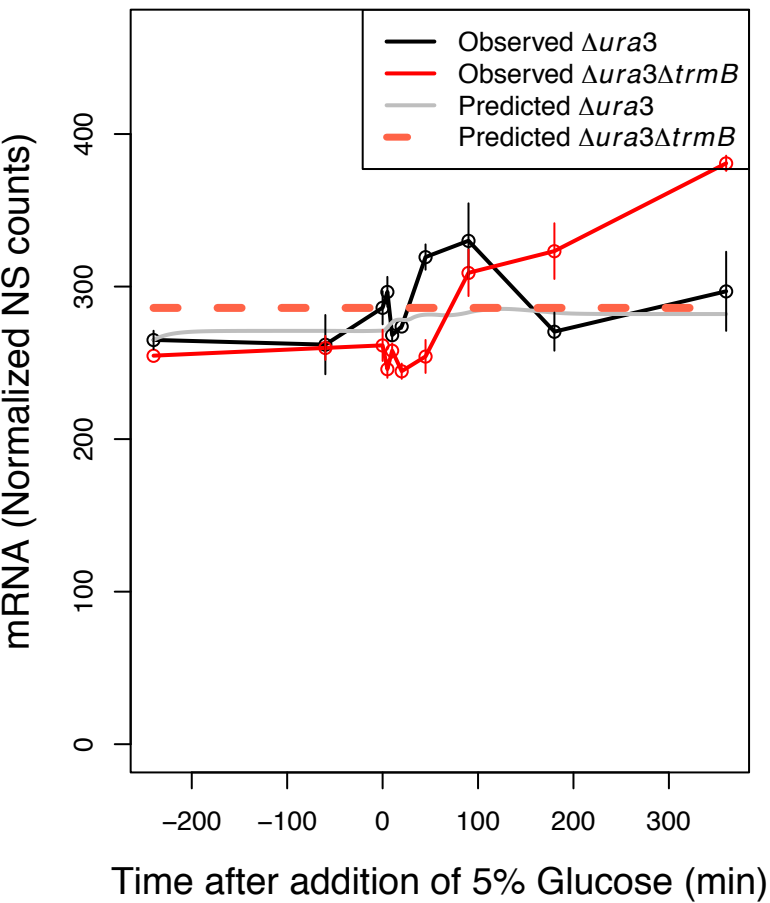
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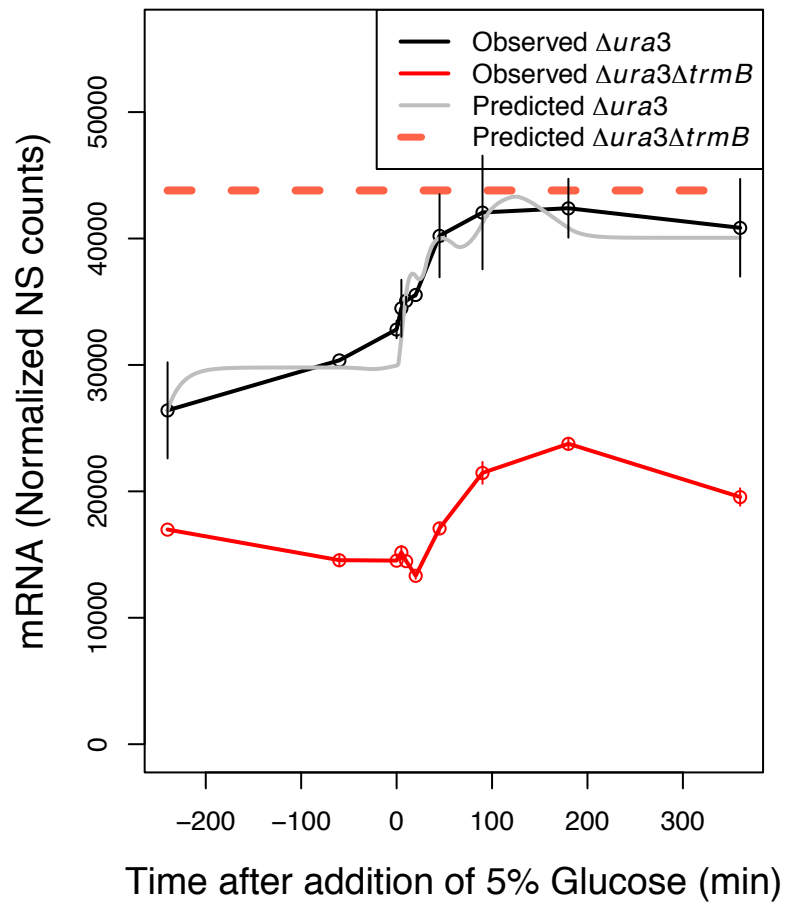
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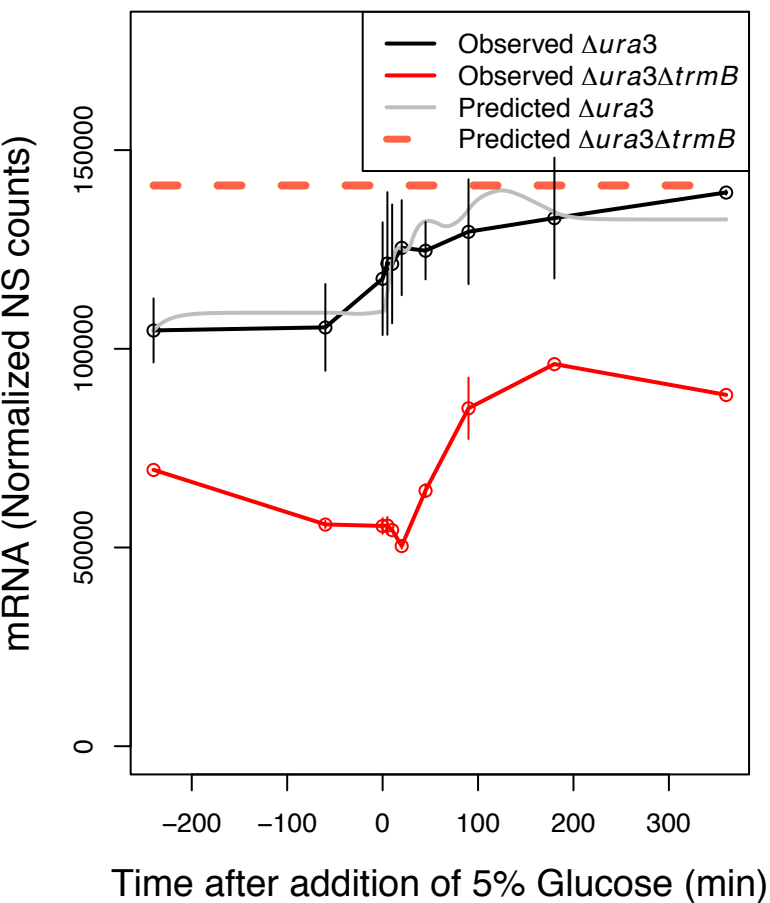
### *kdgK*



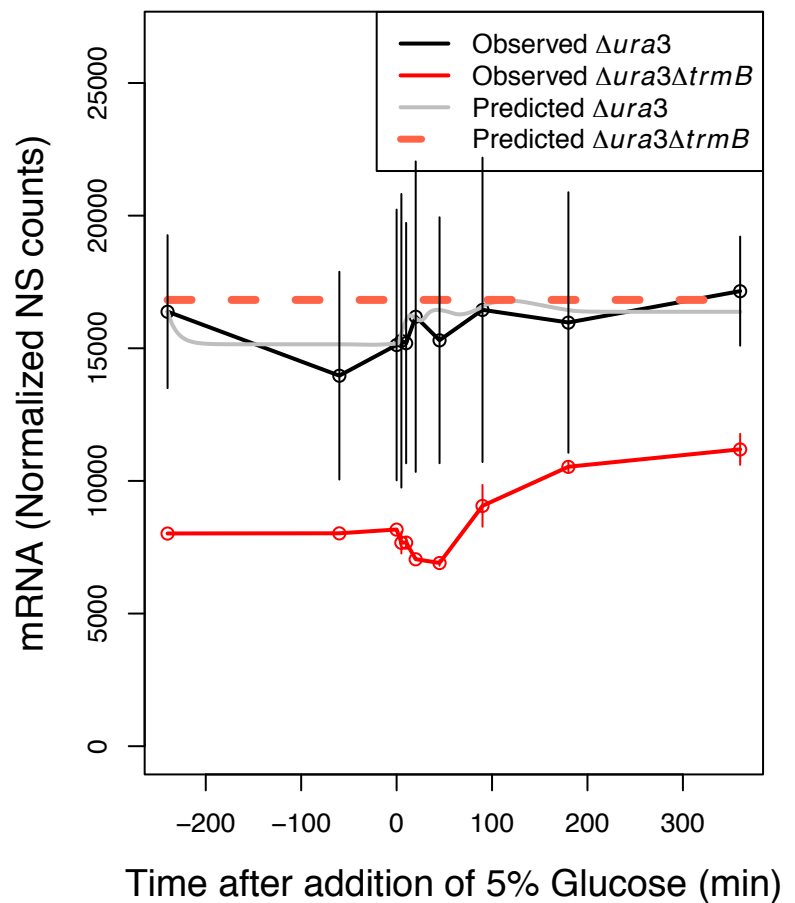
### *korA*



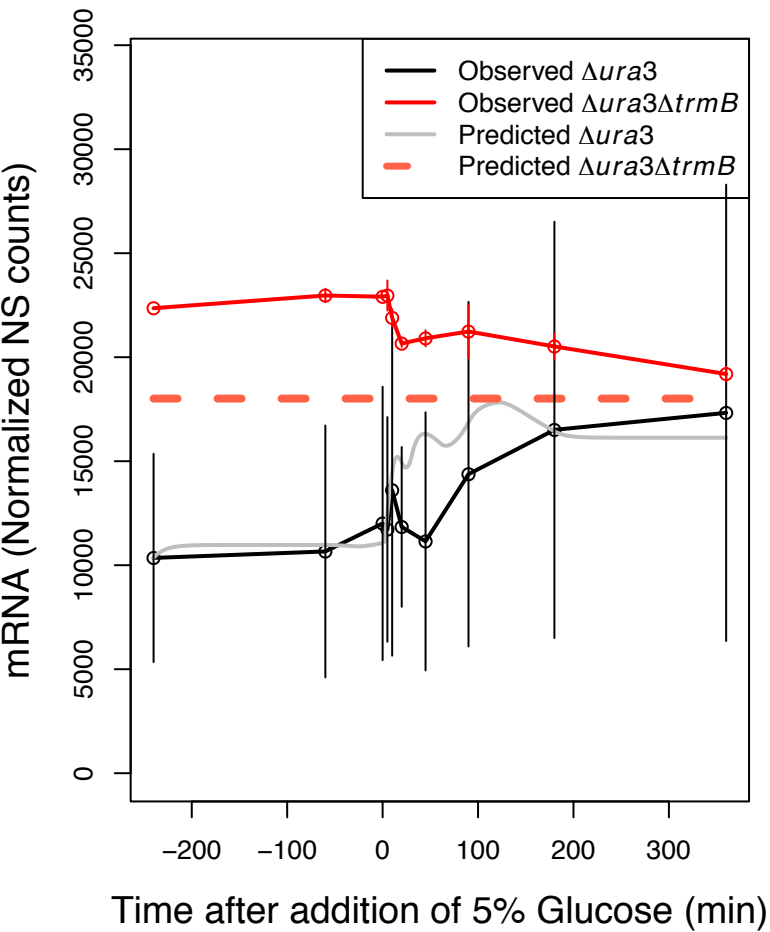
### *korB*



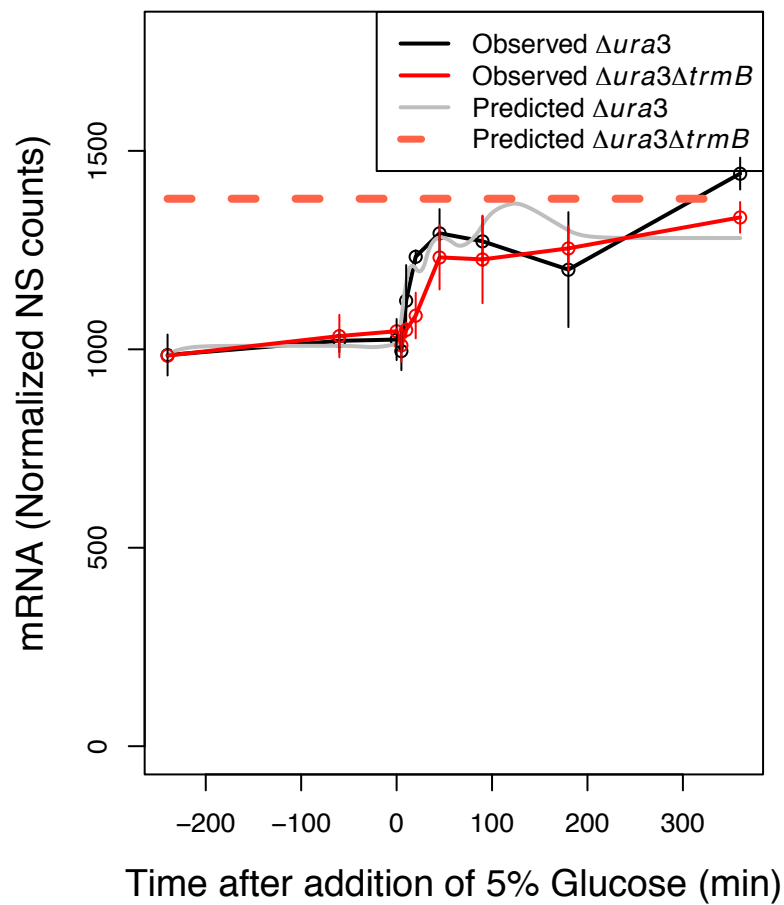
### *mdh*



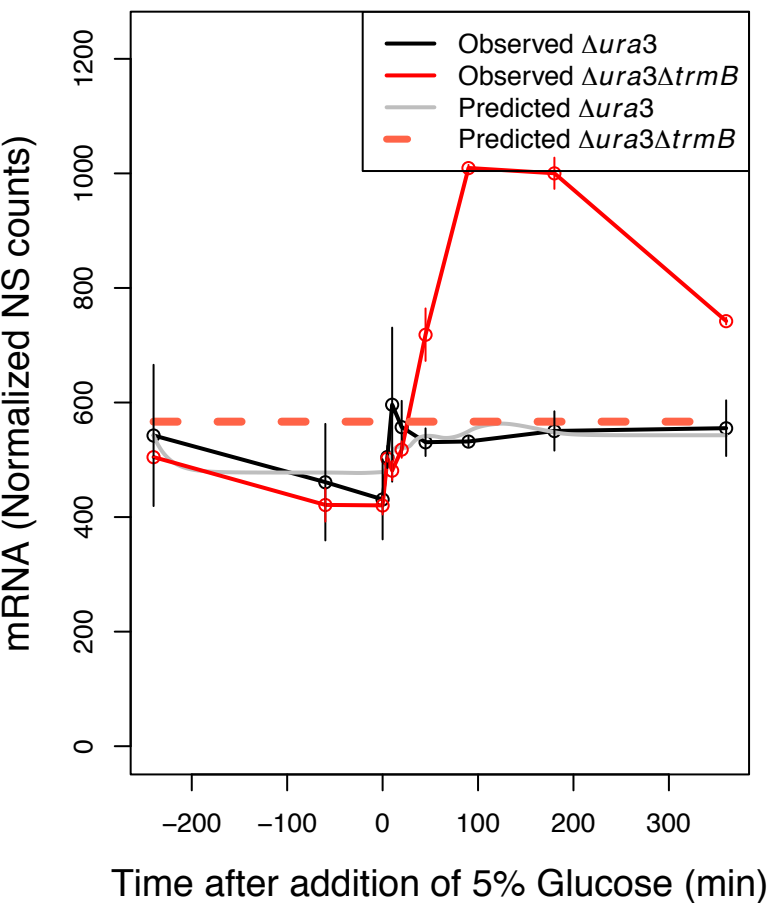
### *mdhA*



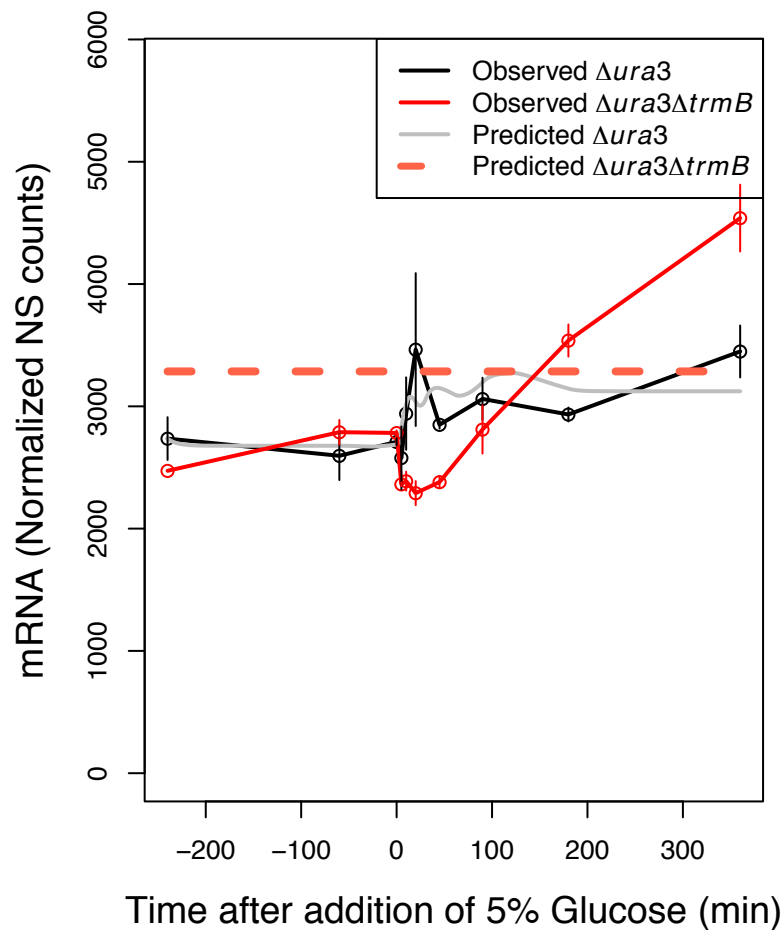
### *menD*



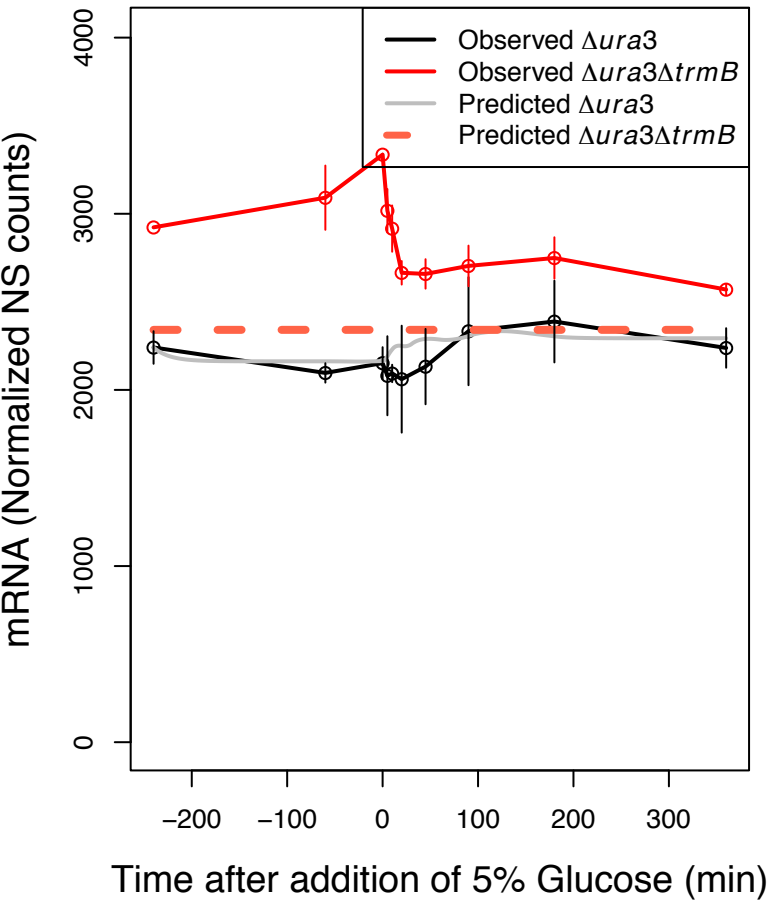
### *menF*



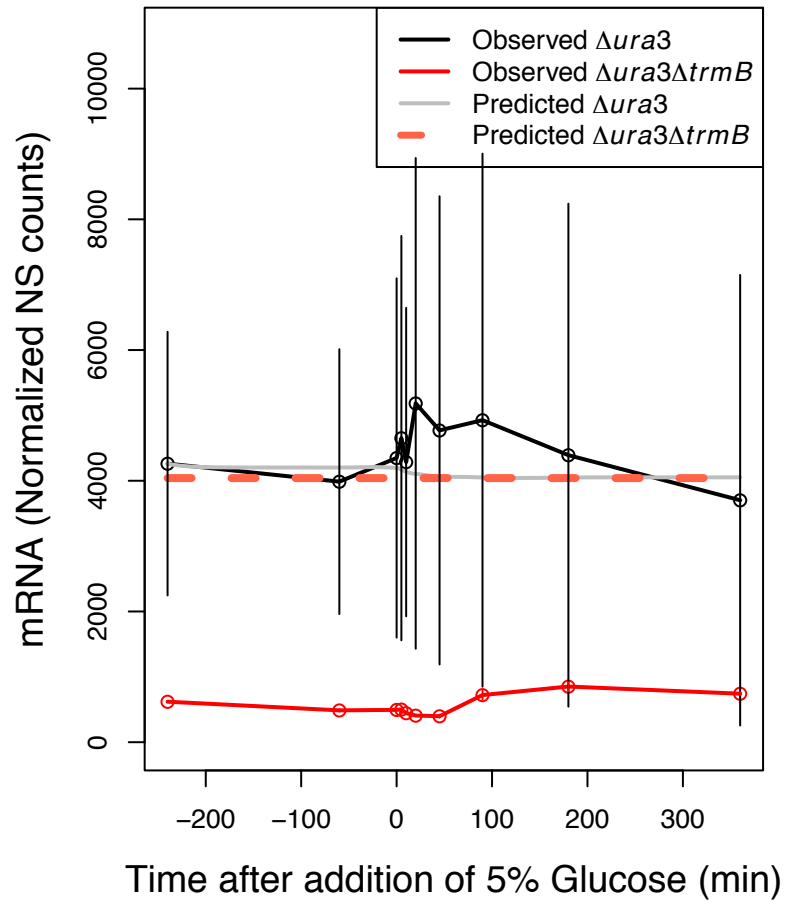
### *mrp*



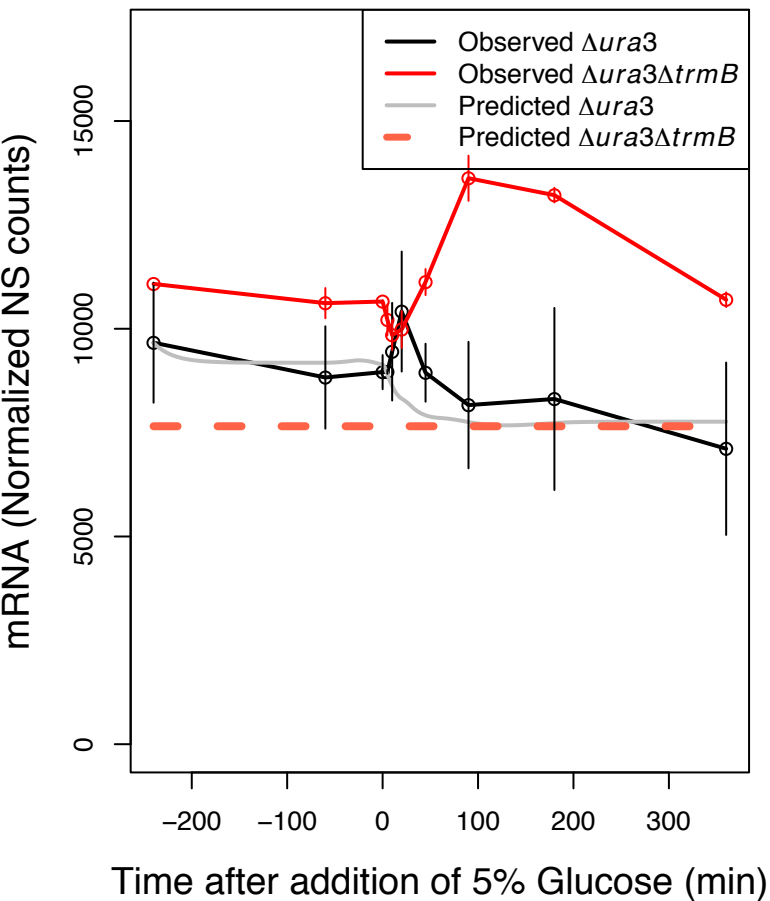
### *mvaA*



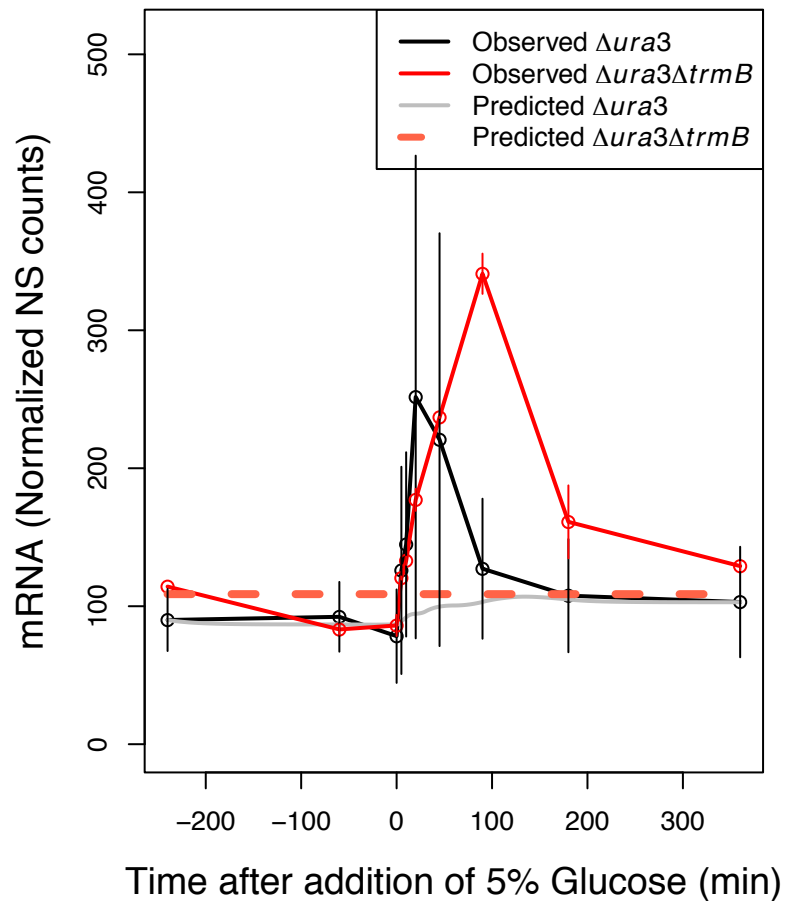
### *mvaB*



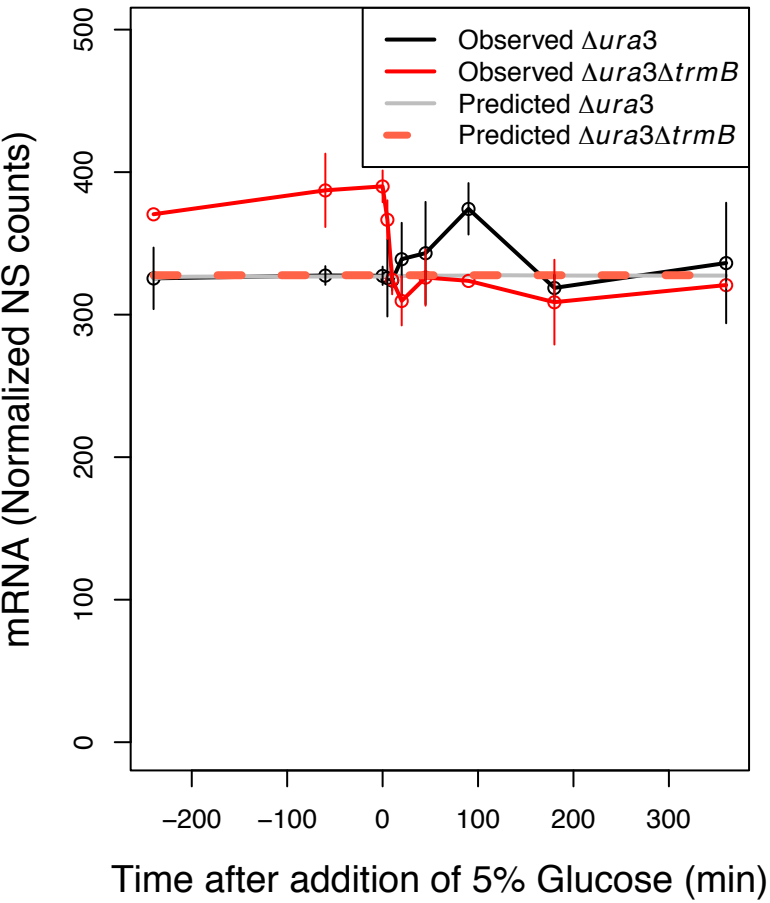
### *ndhG3*



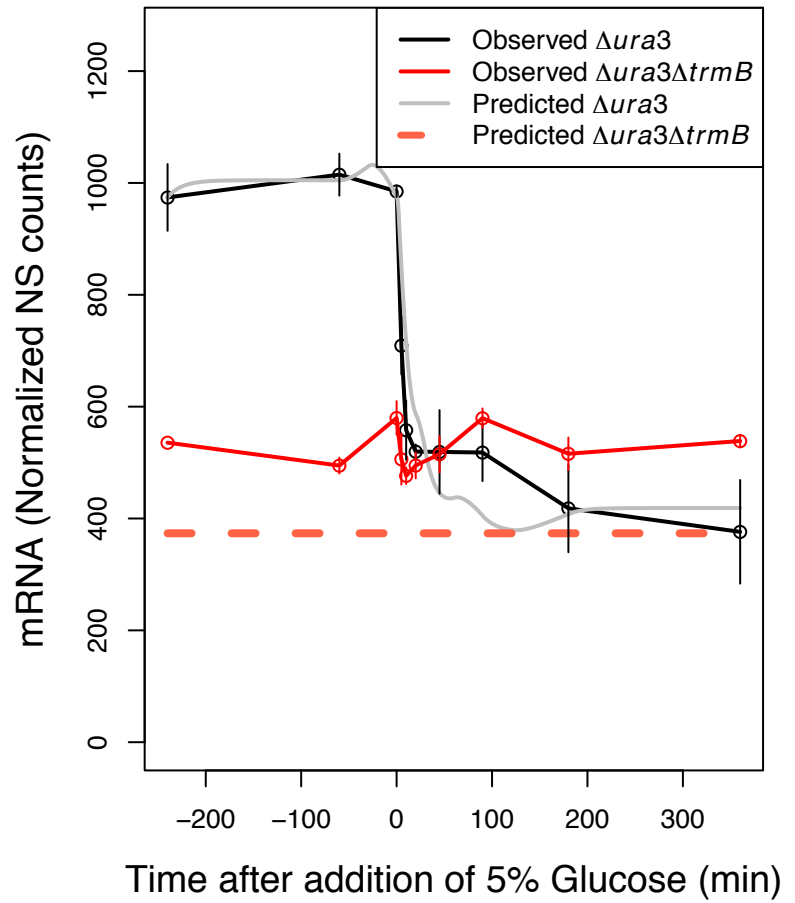
### *nhaC2*



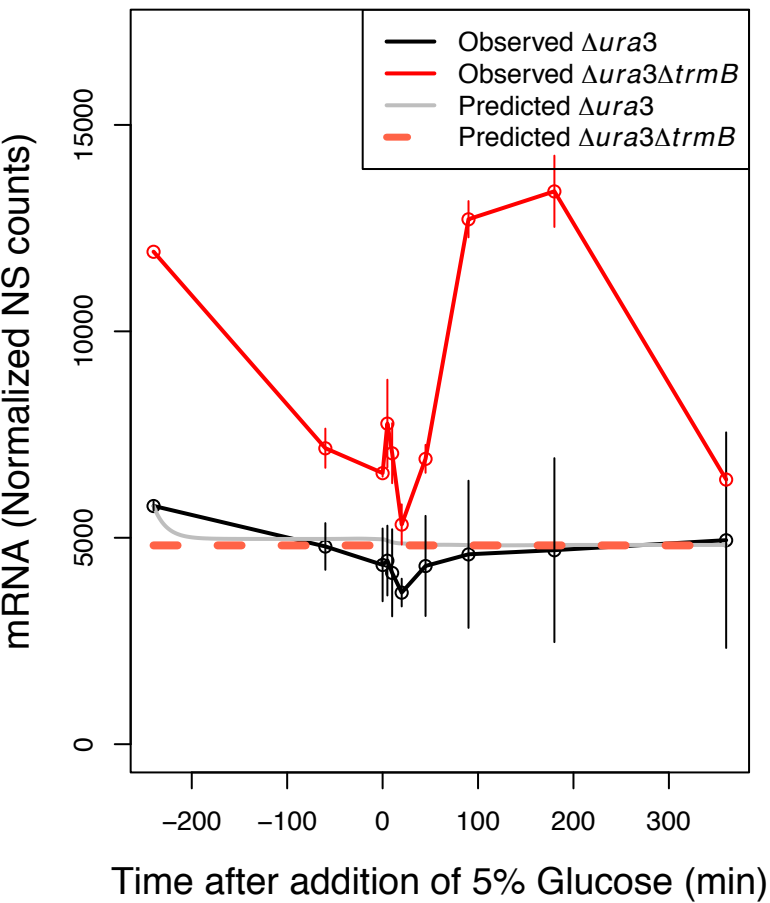
*pgi*



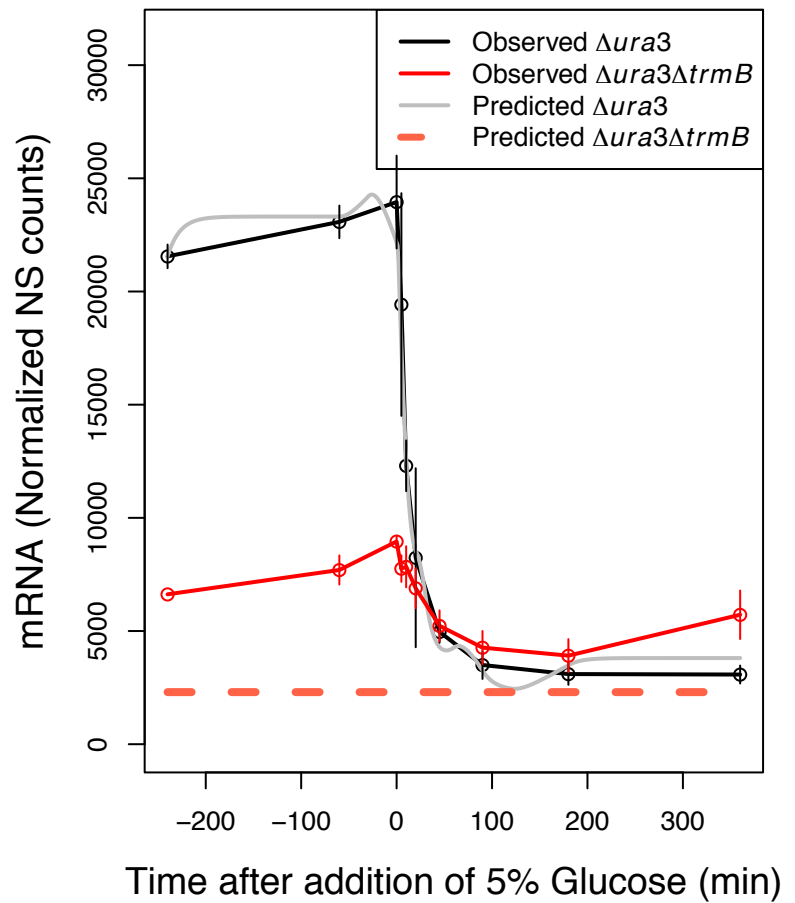
*pgk*



*porB*

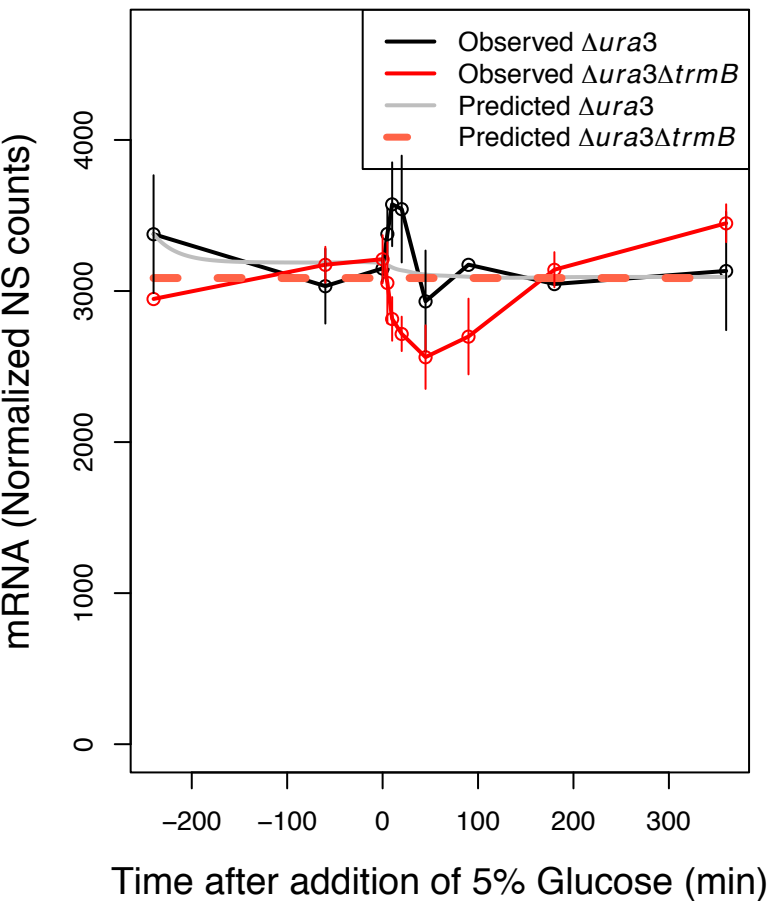


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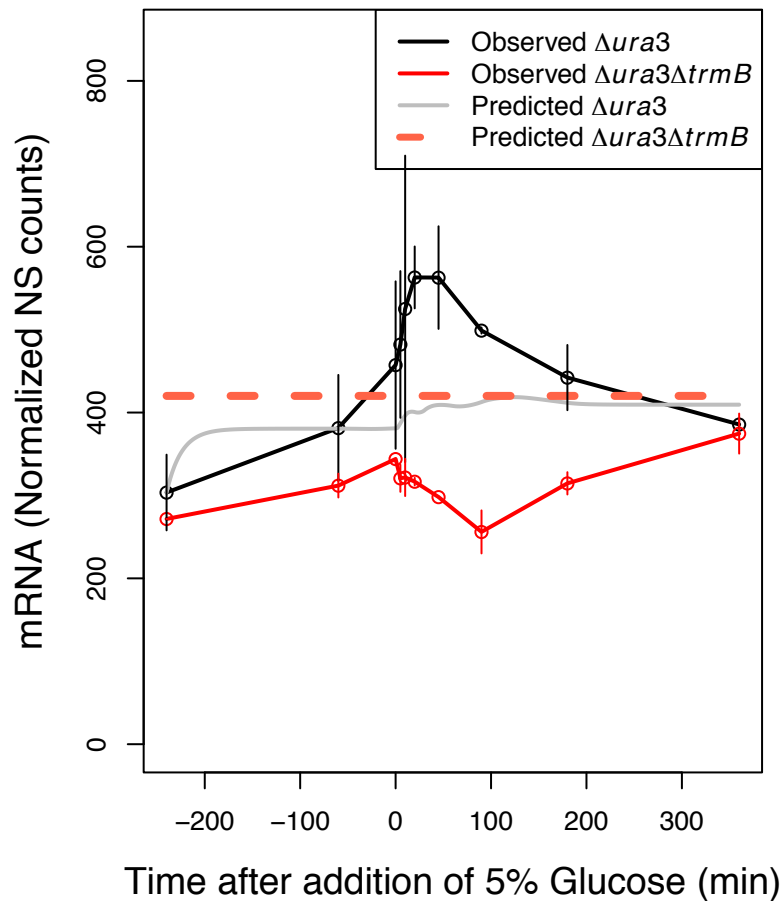




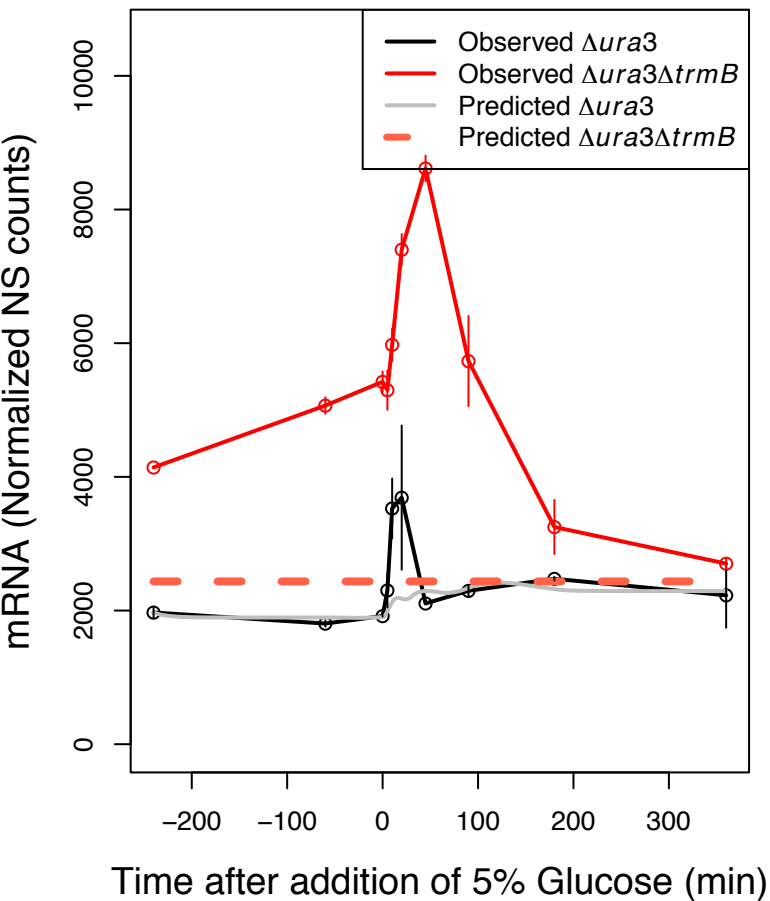
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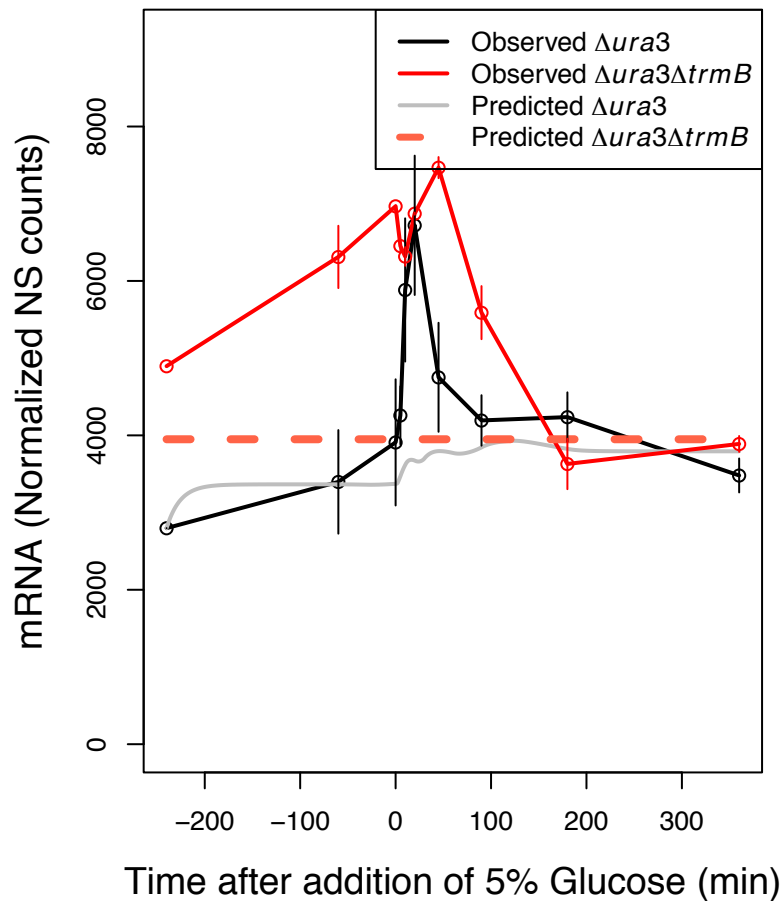
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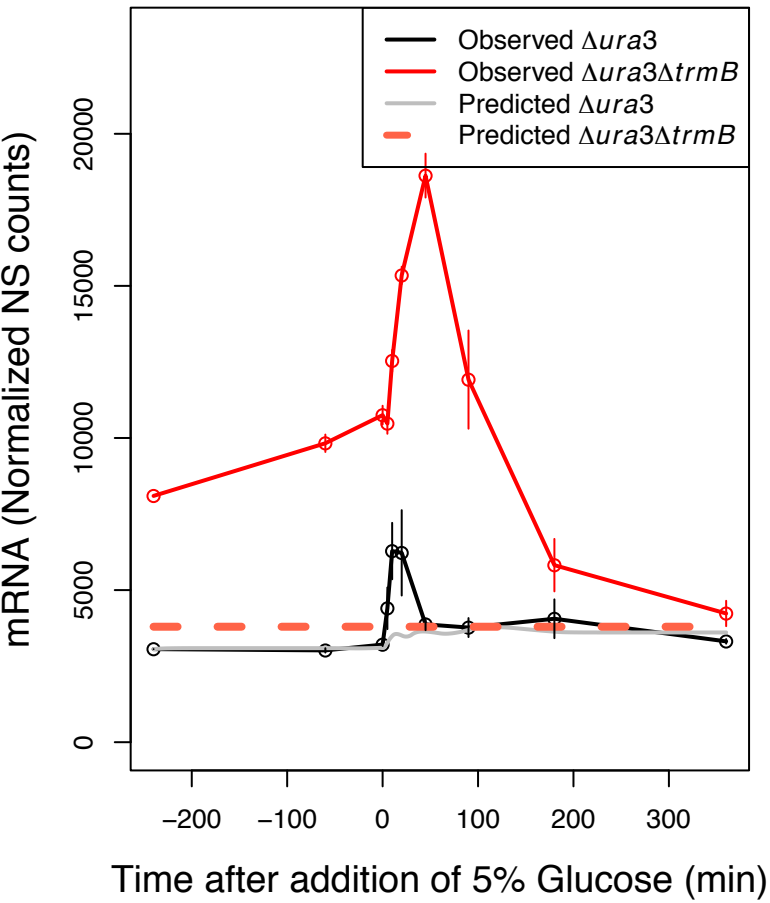
### *purB*



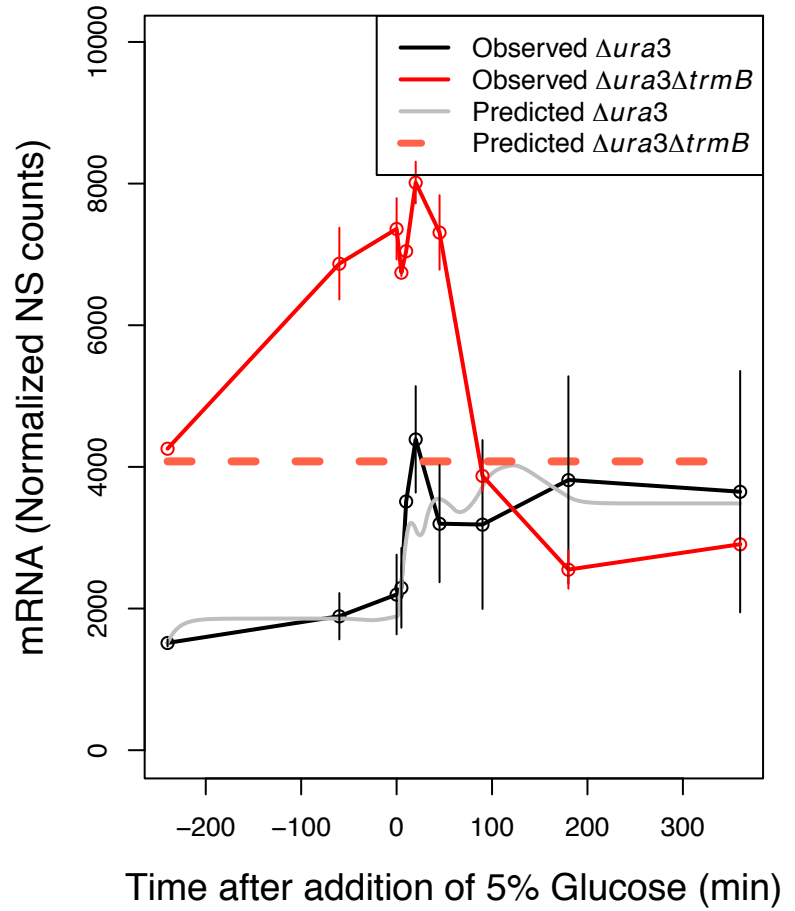
### *purC*



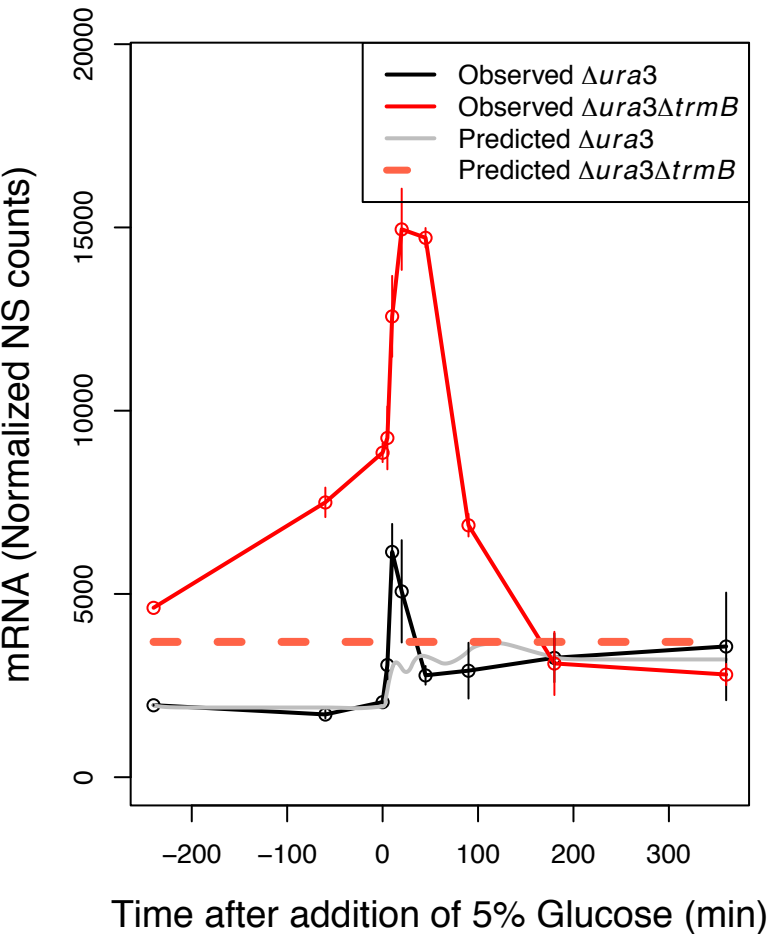
### *purD*



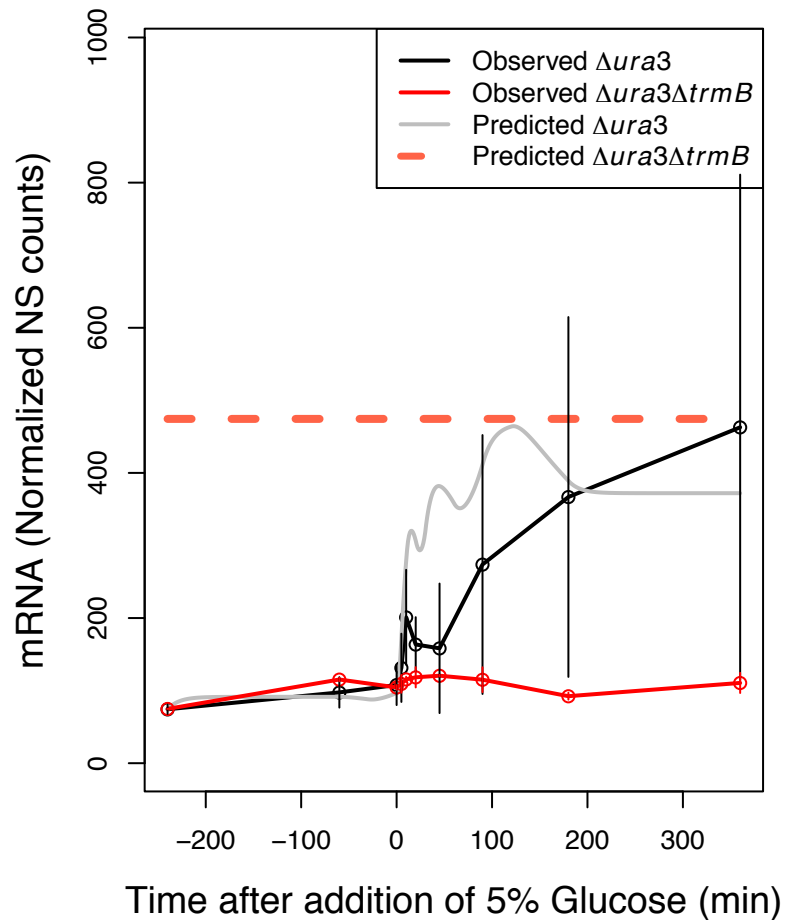
### *purE*



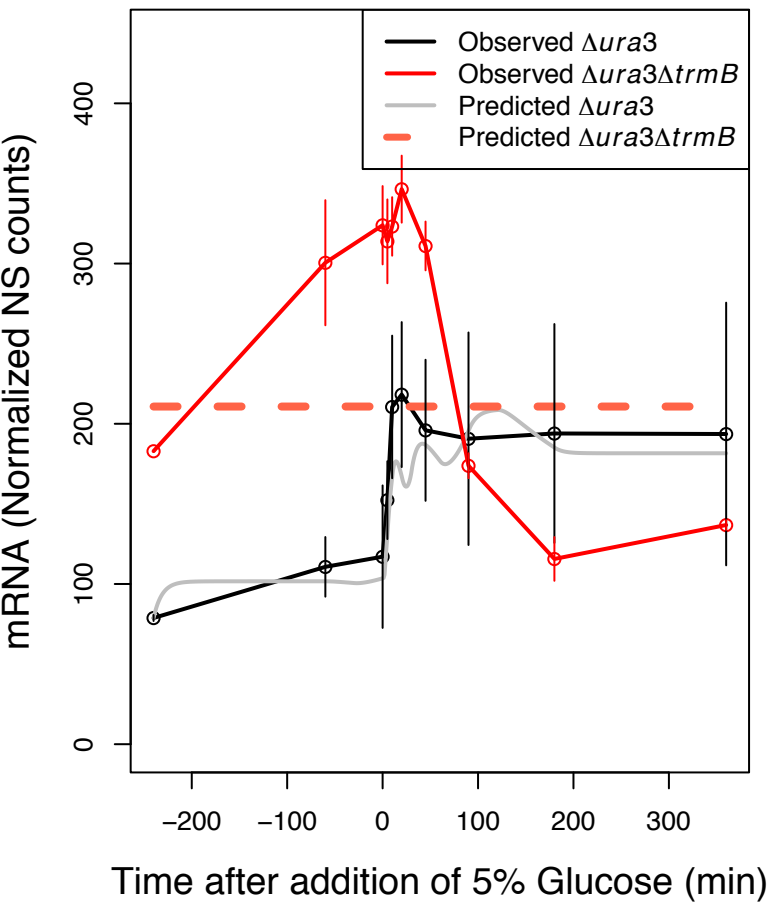
### *purF*



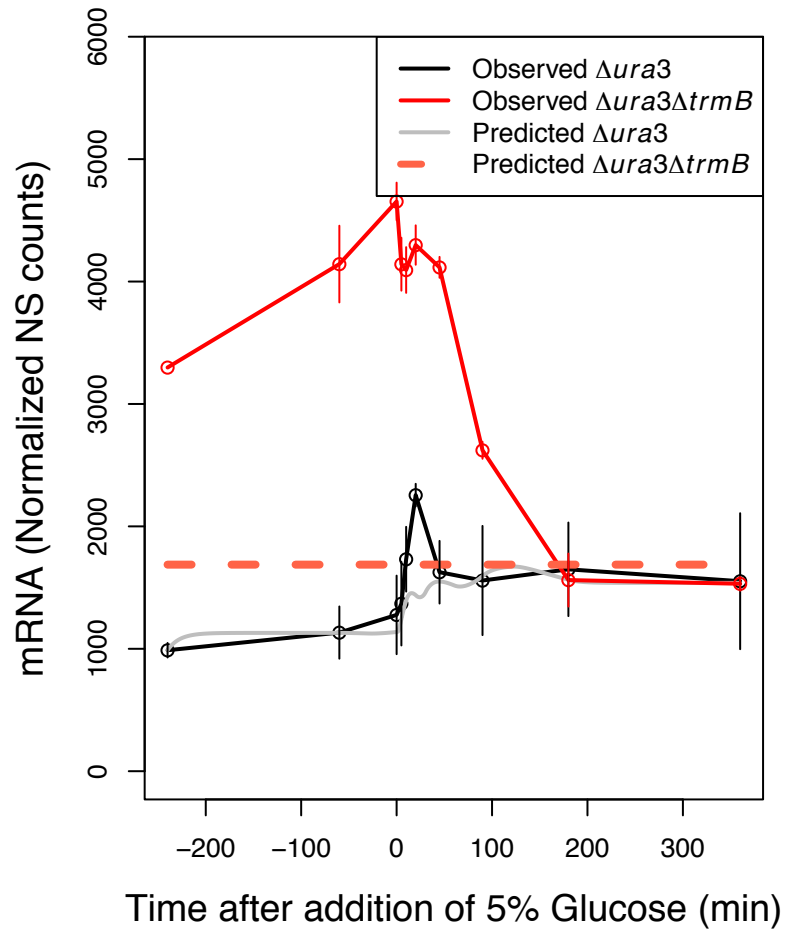
### *purH*



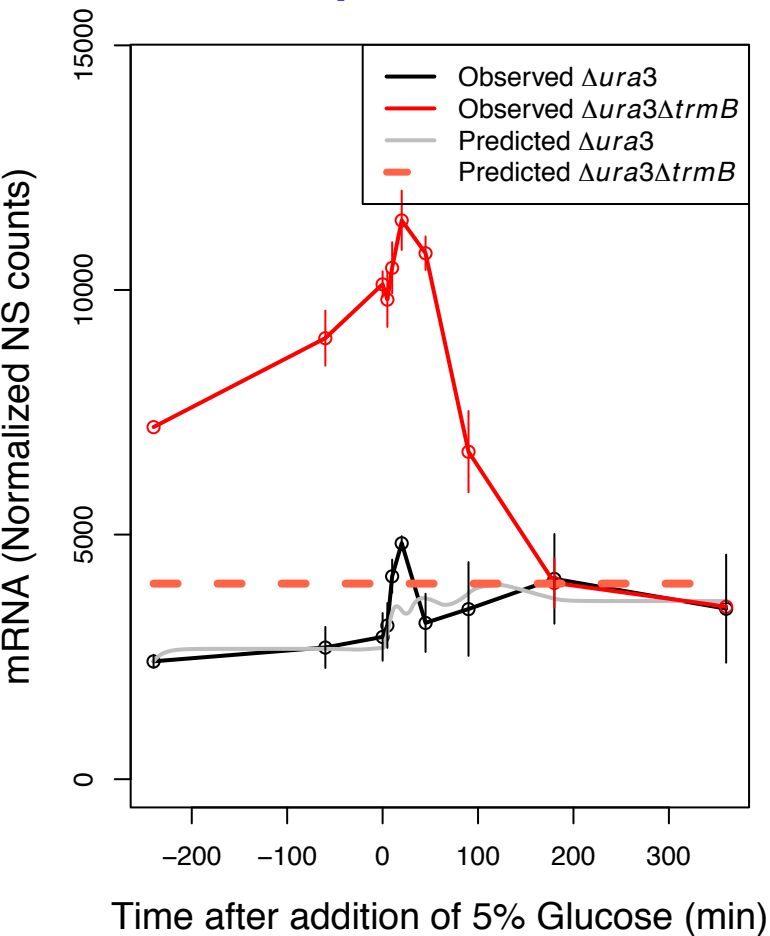
### *purK*



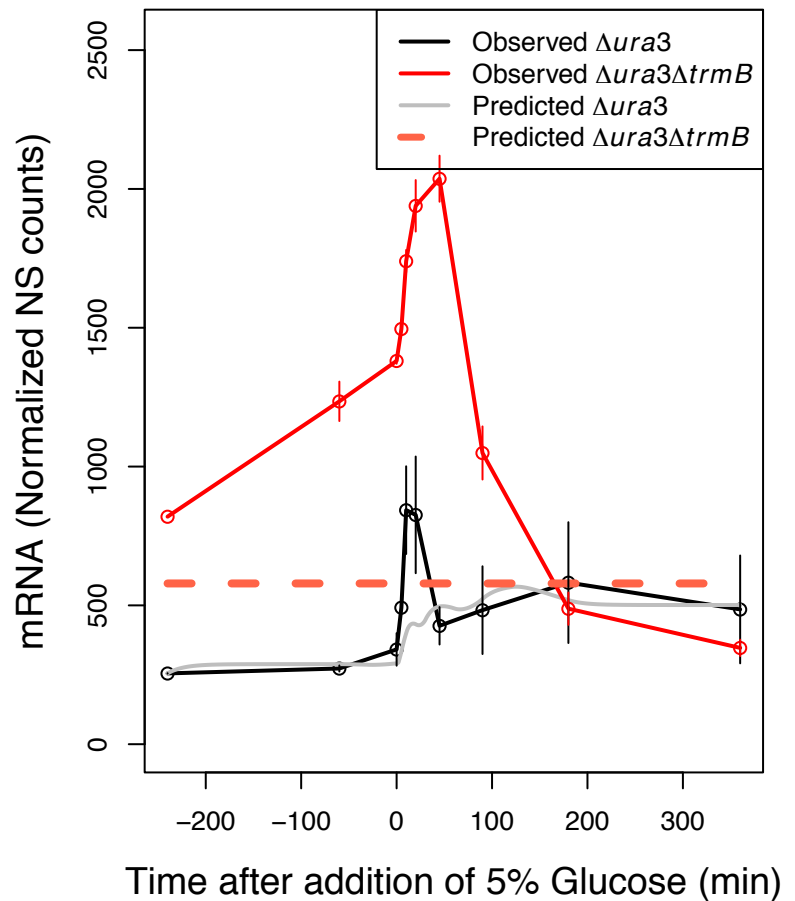
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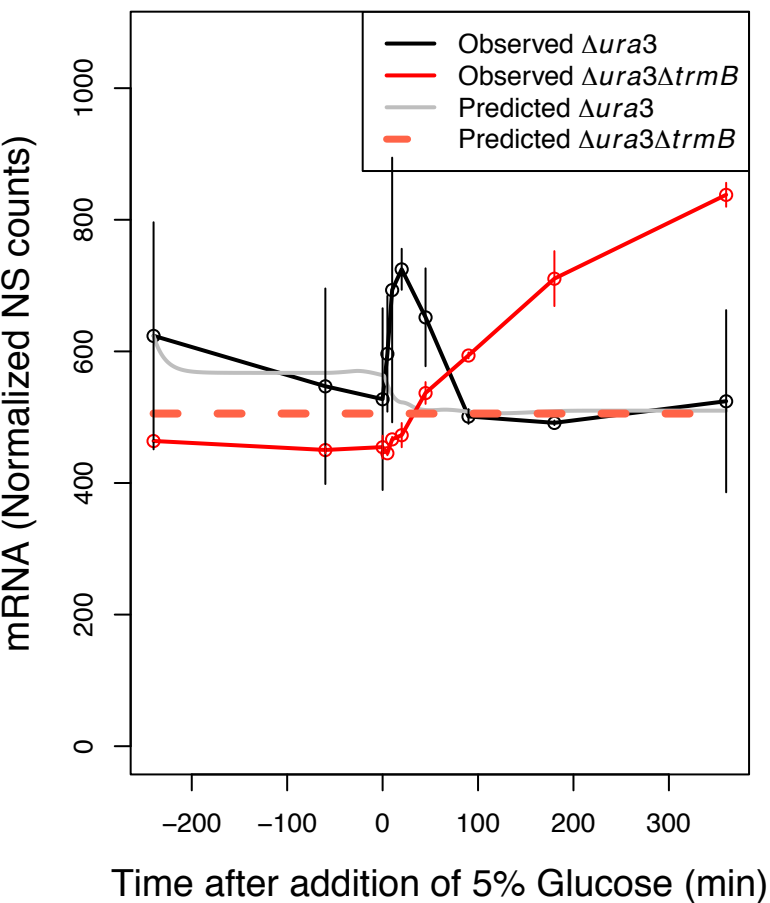
### *purL2*



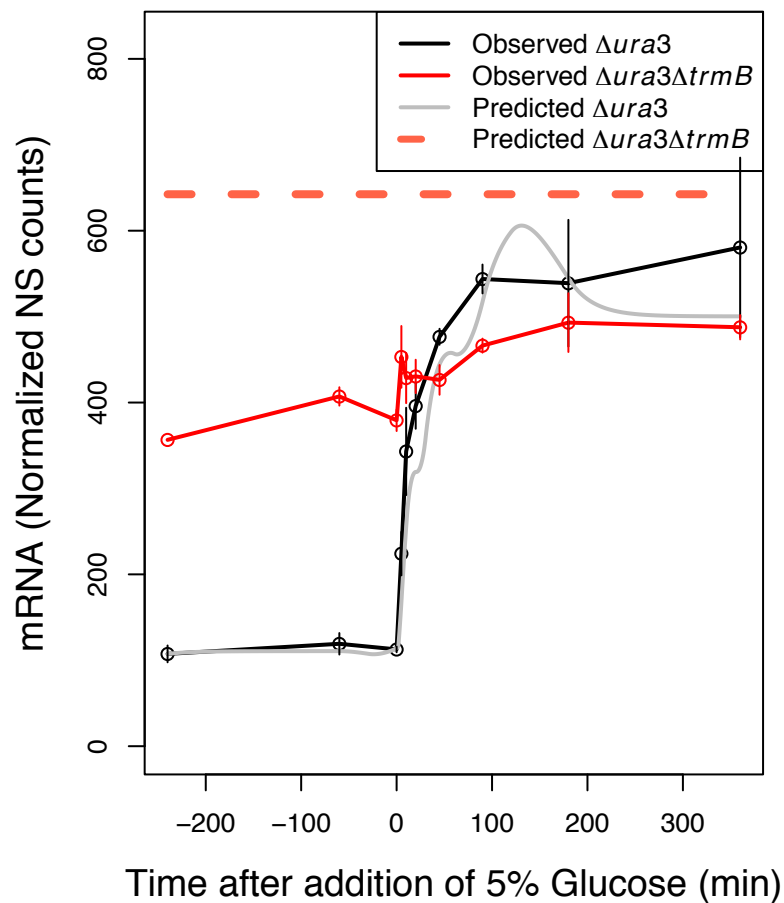
### *purM*



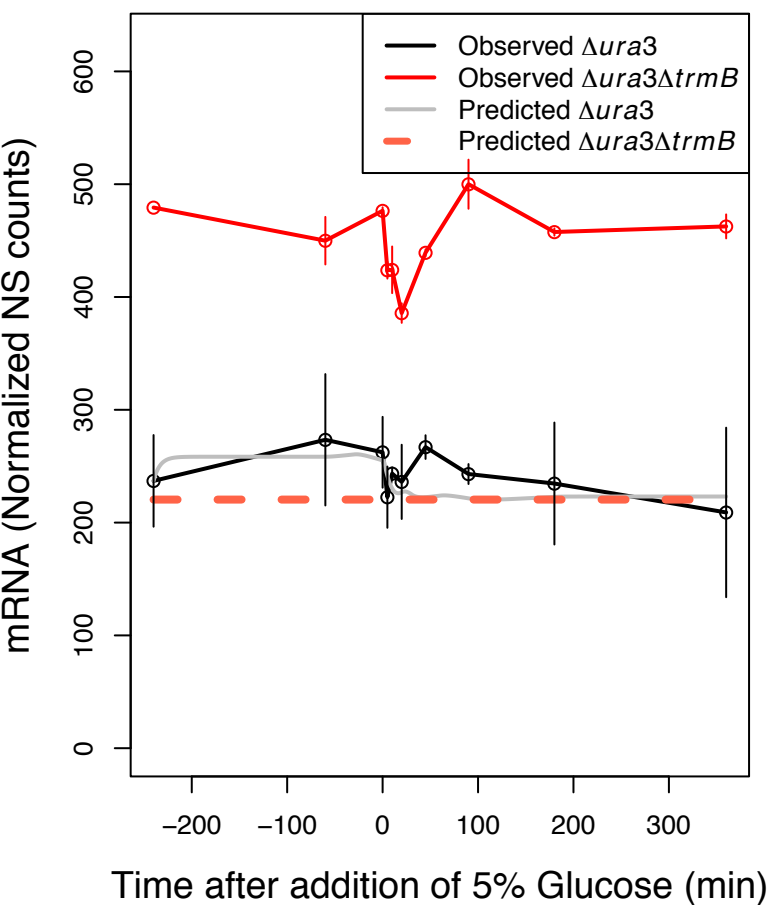
### *purU*



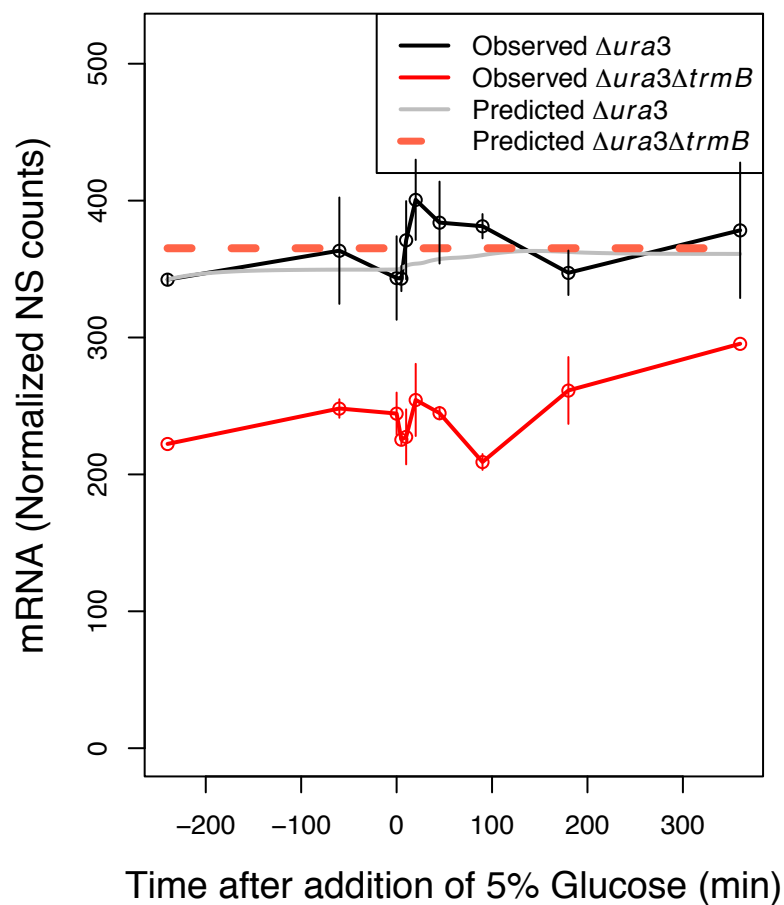
### *ykA*



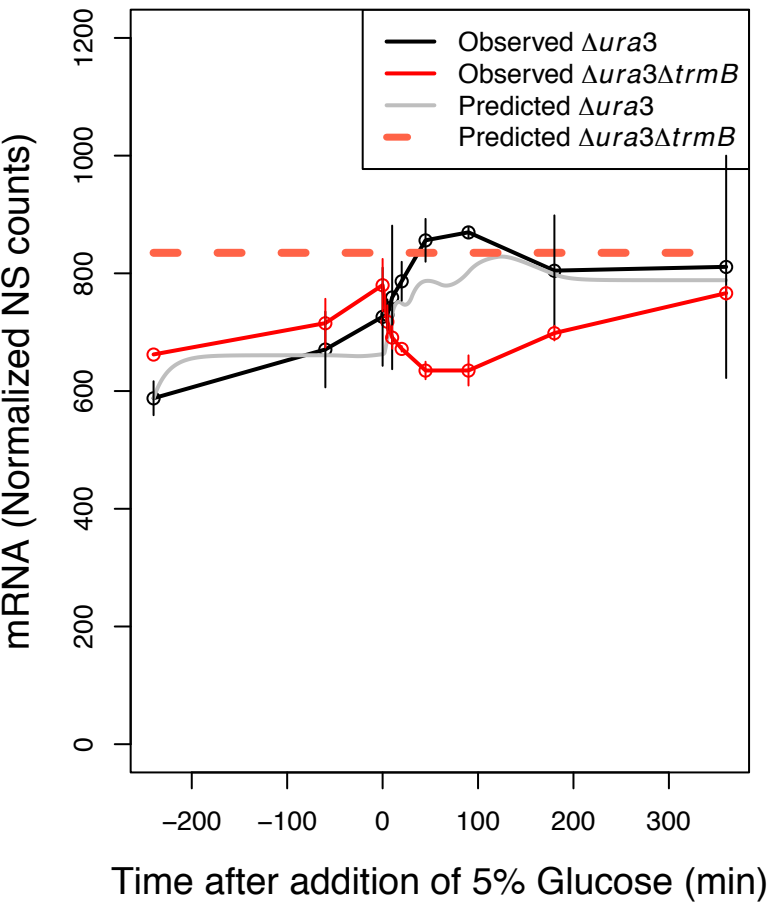
### *rbsA*



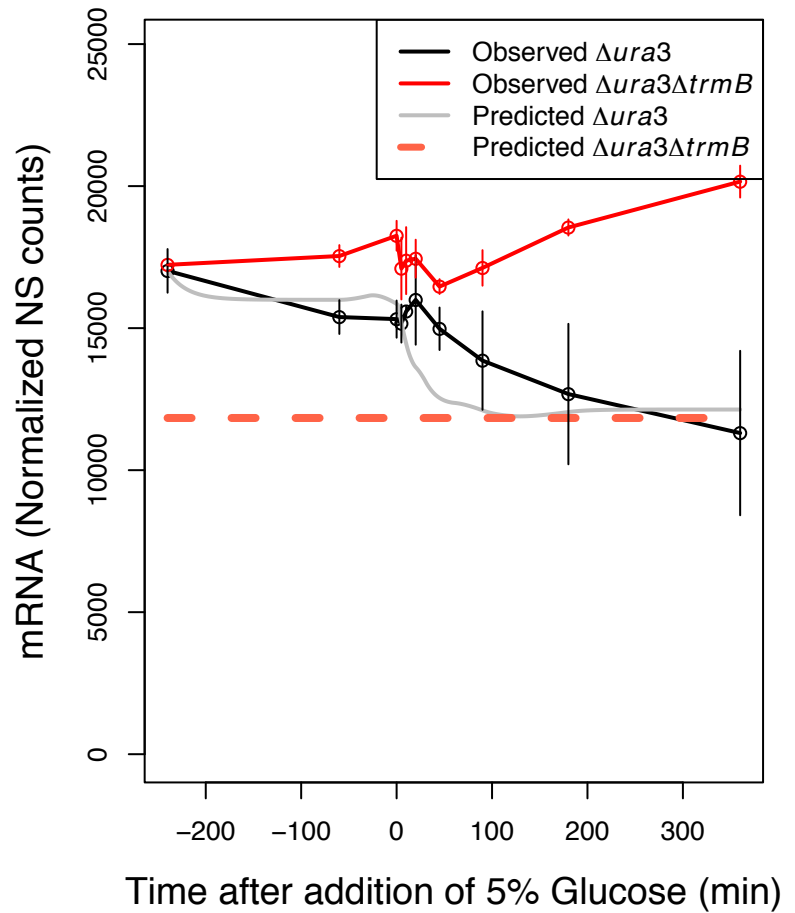
### *rpi*



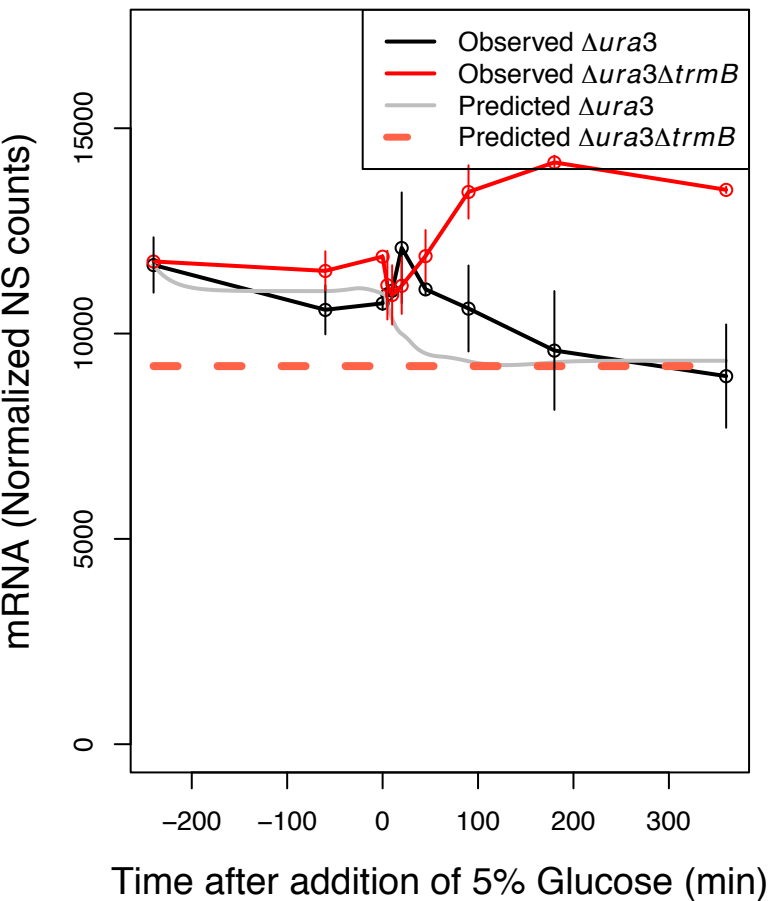
### *rspA*



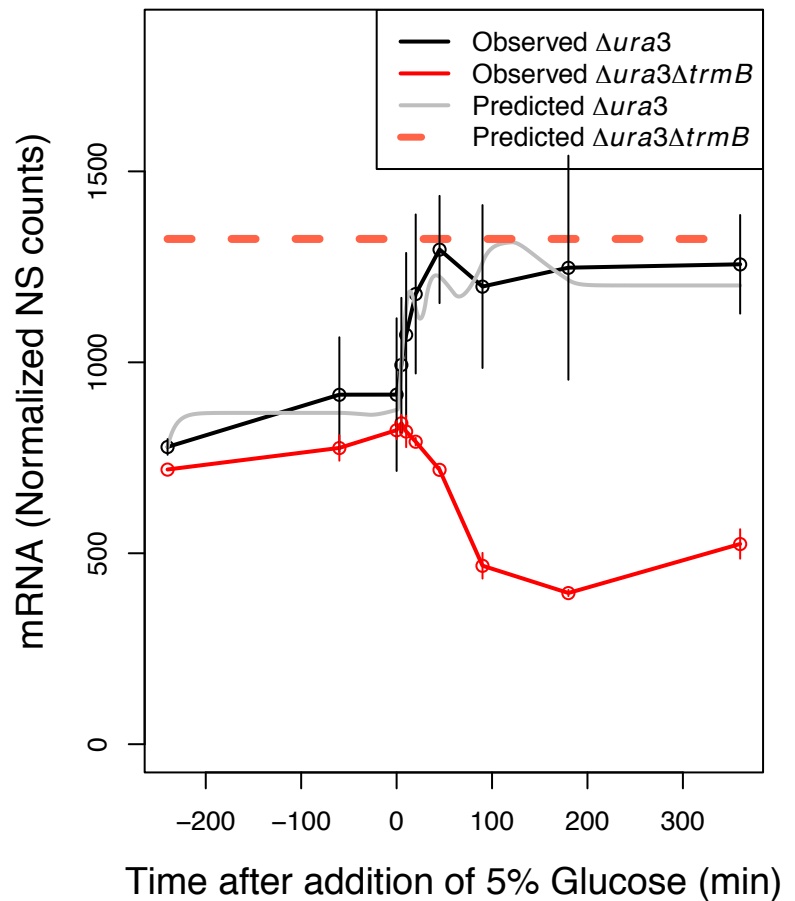
### *sdhA*



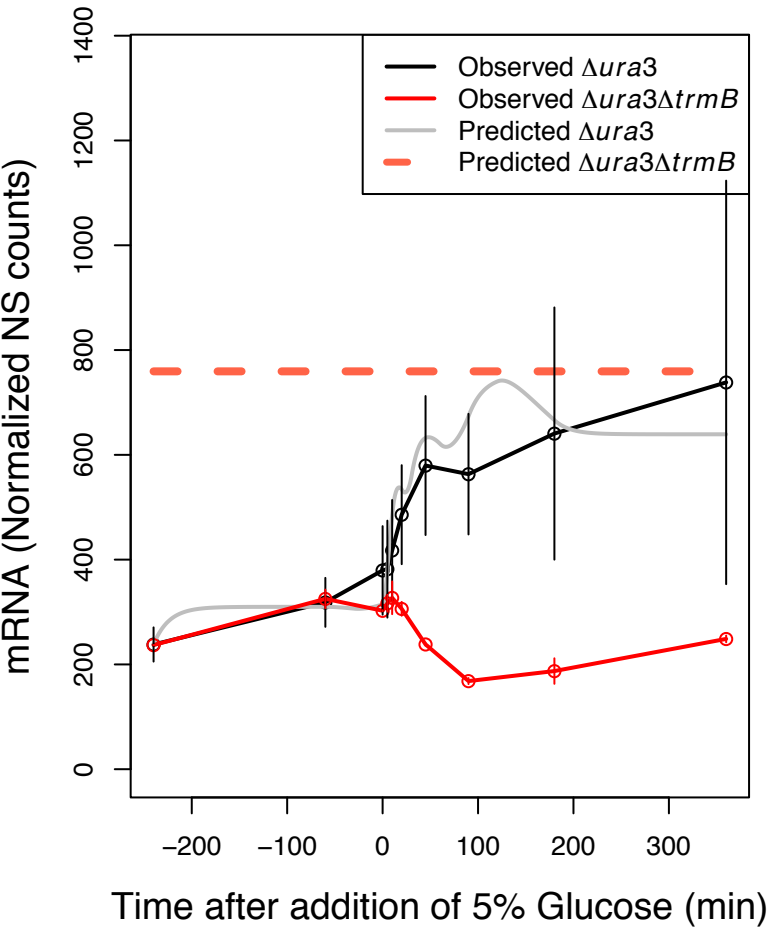
### *sdhB*



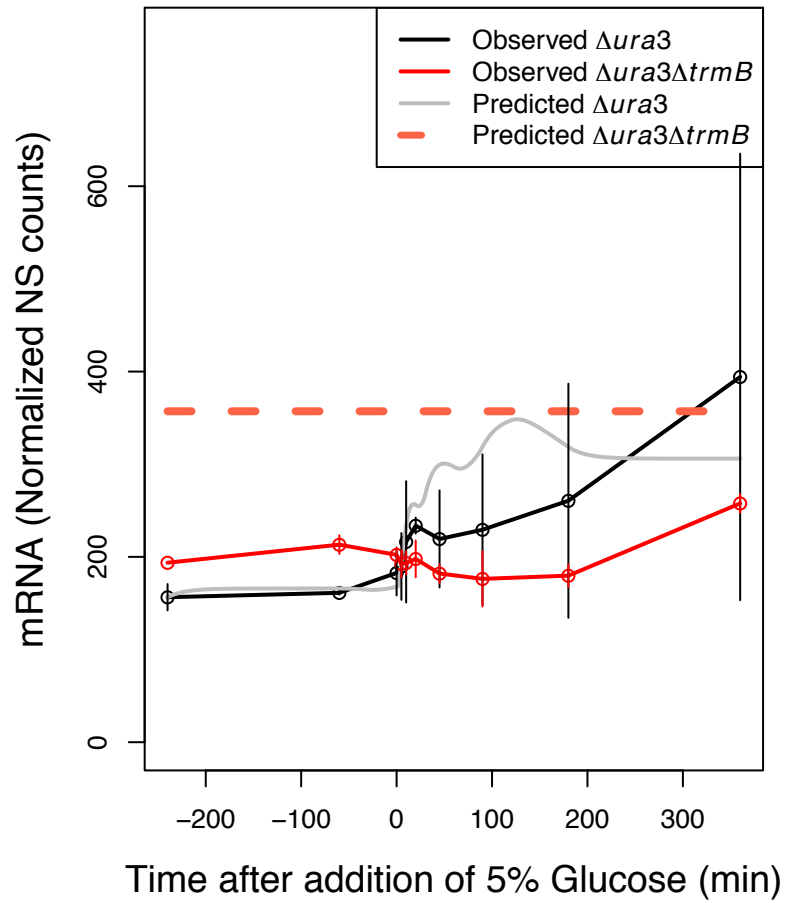
### *serA1*



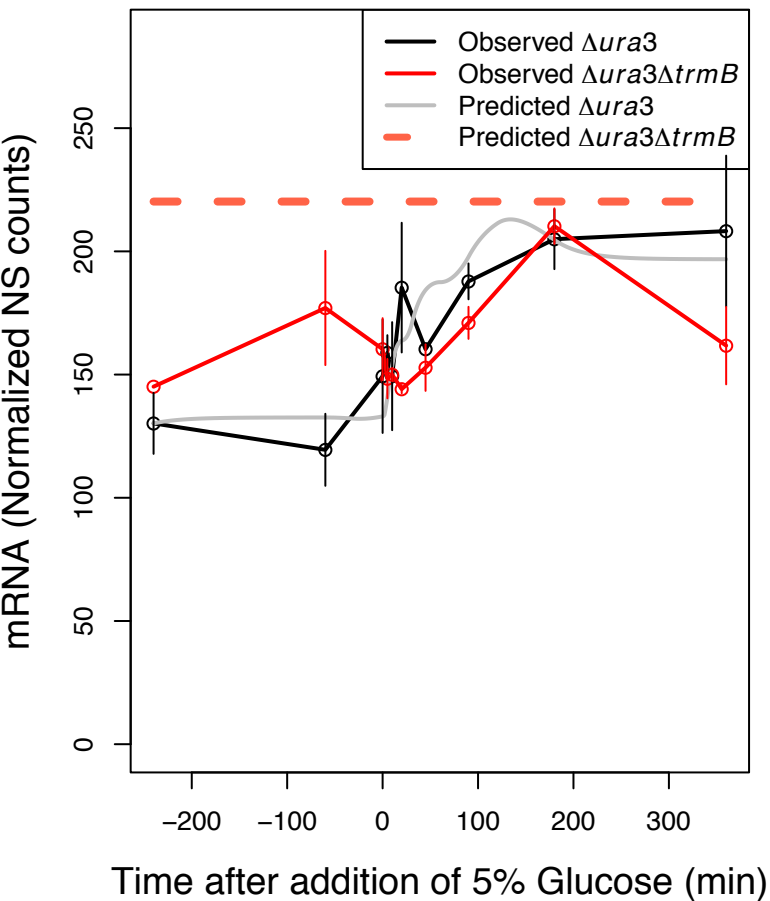
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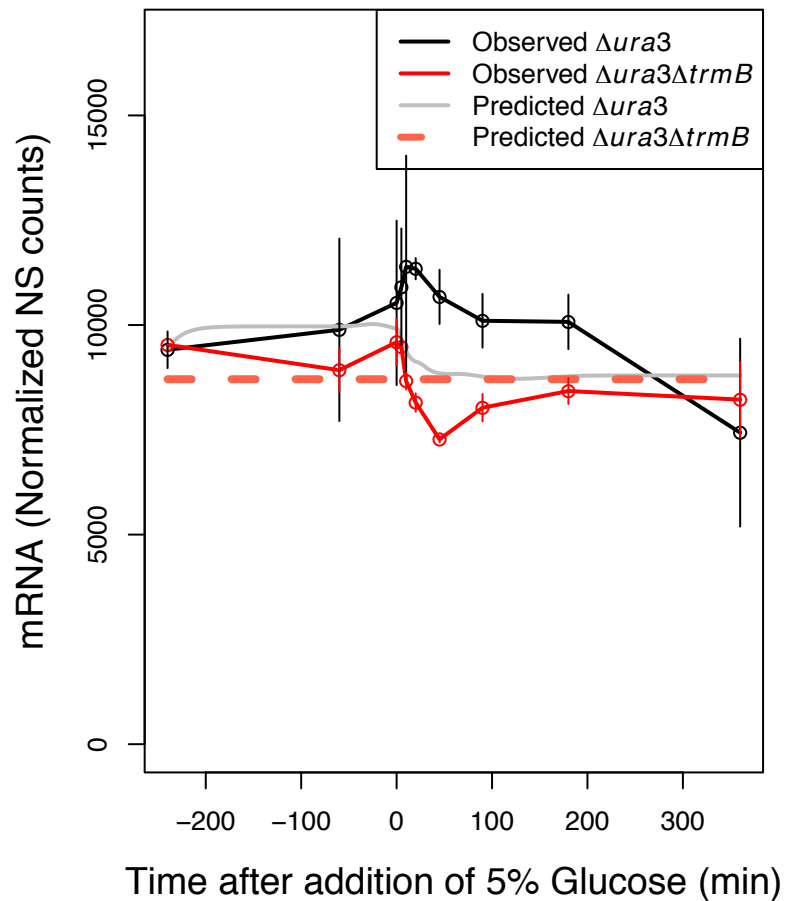
### *serB*



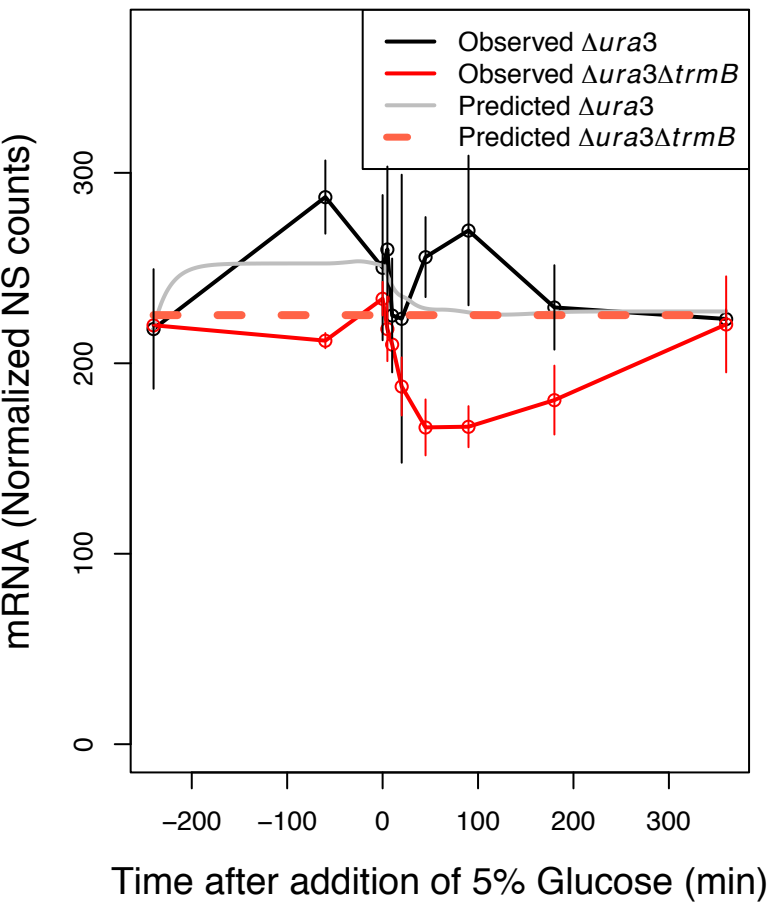
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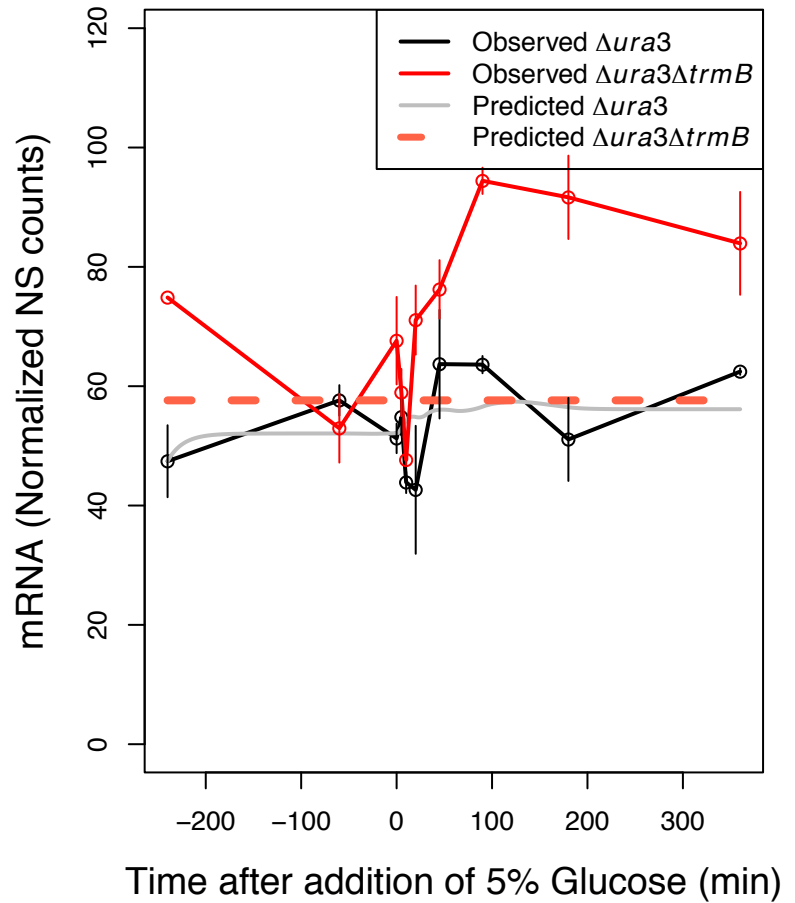
### *sucC*



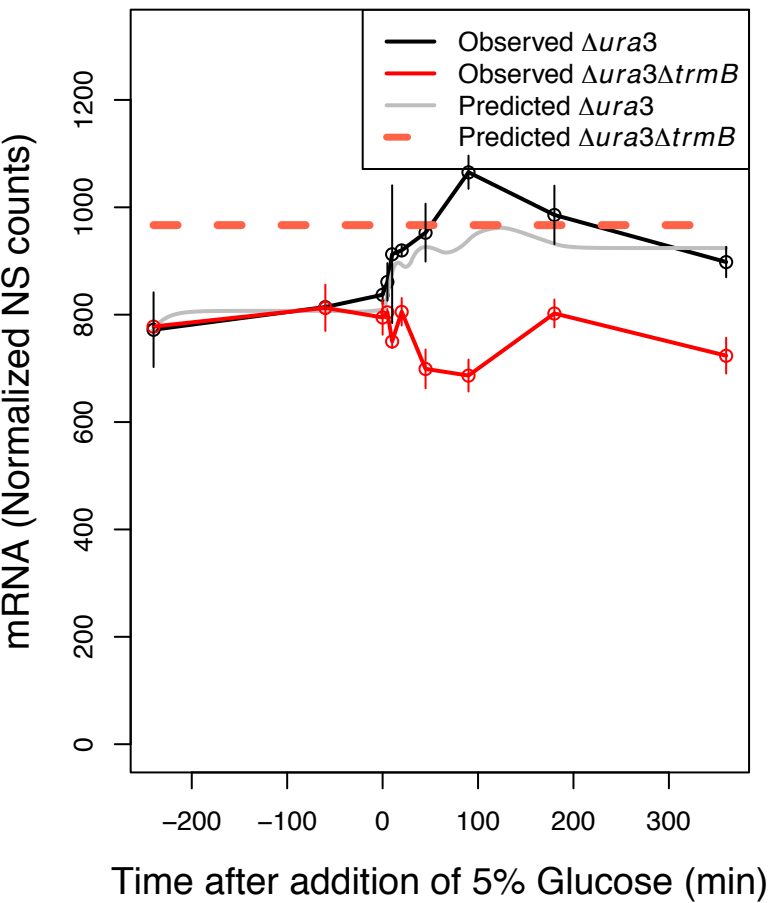
### *thiC*



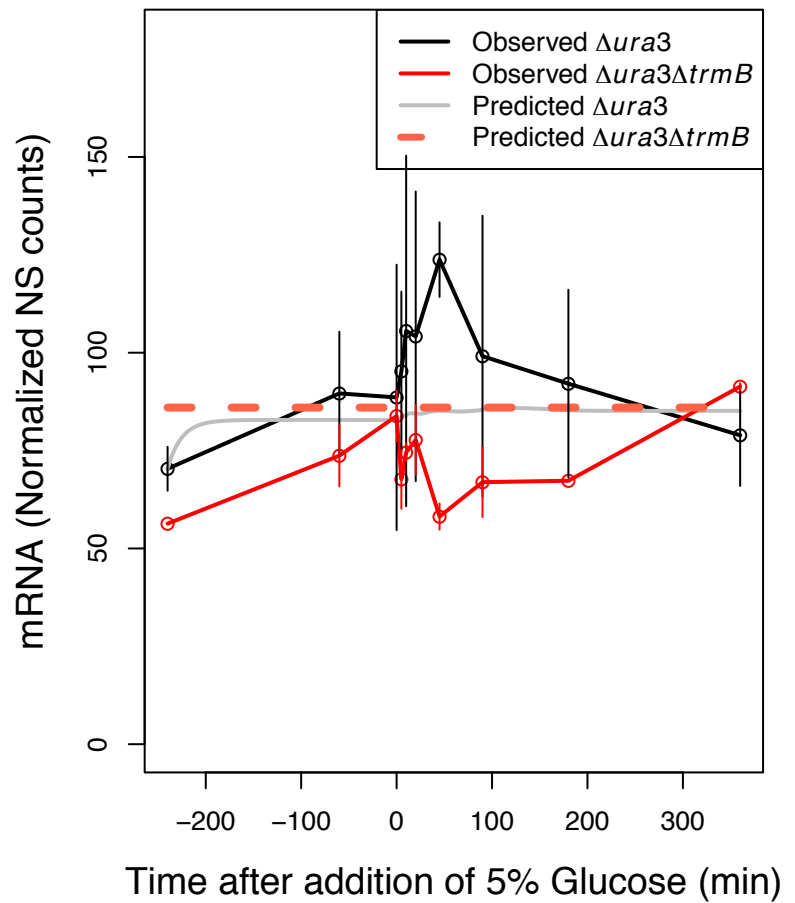
### *thiD*



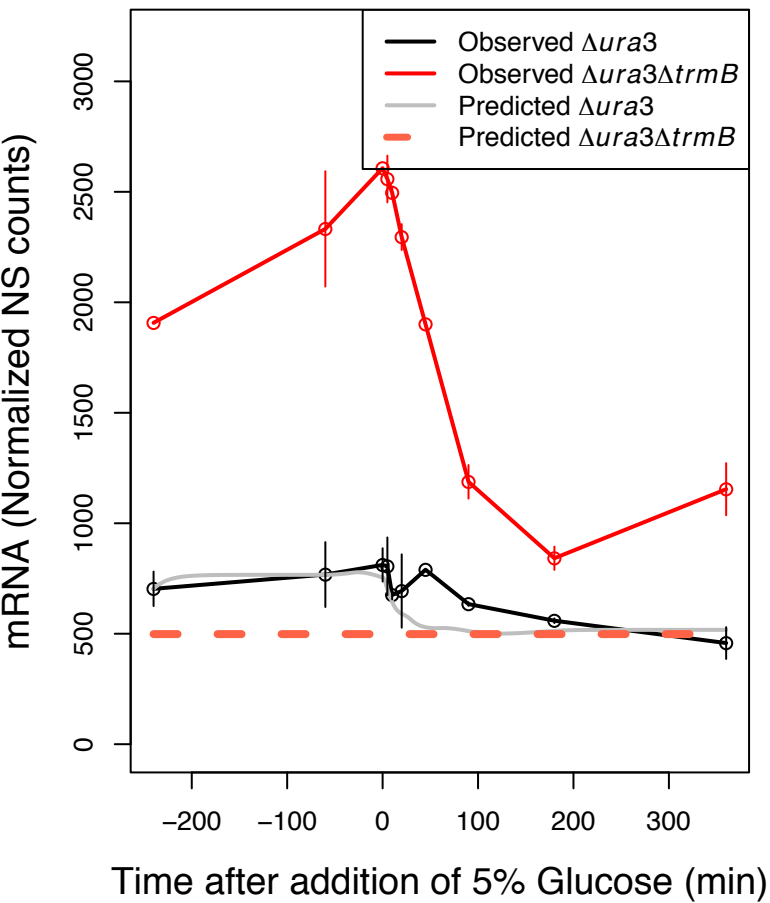
### *thrC2*



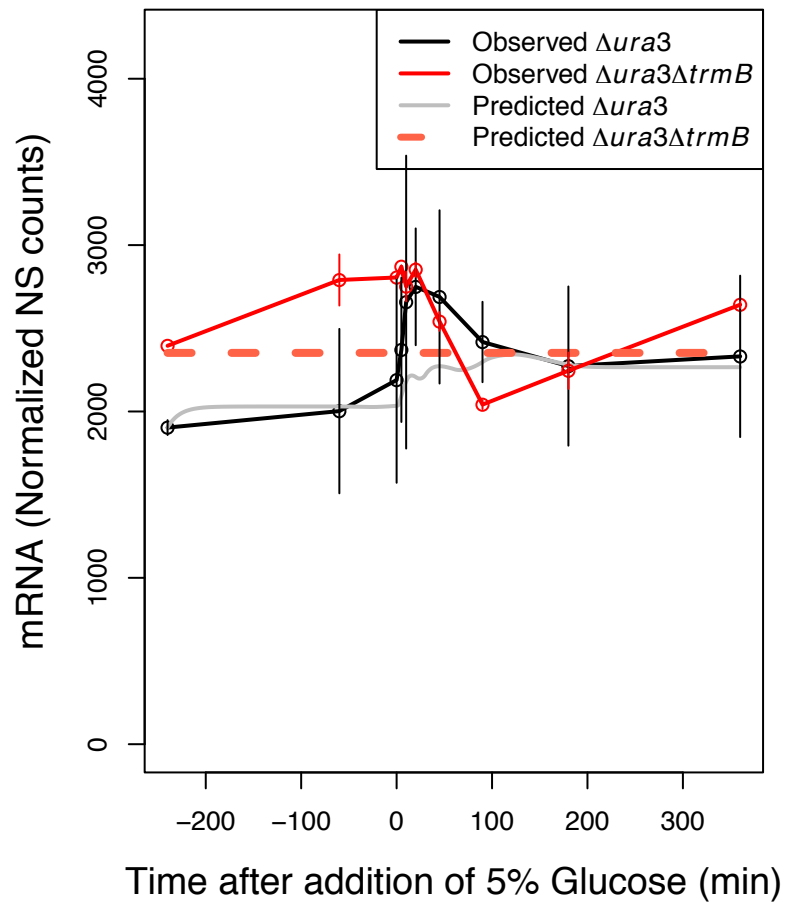
### *trpE2*



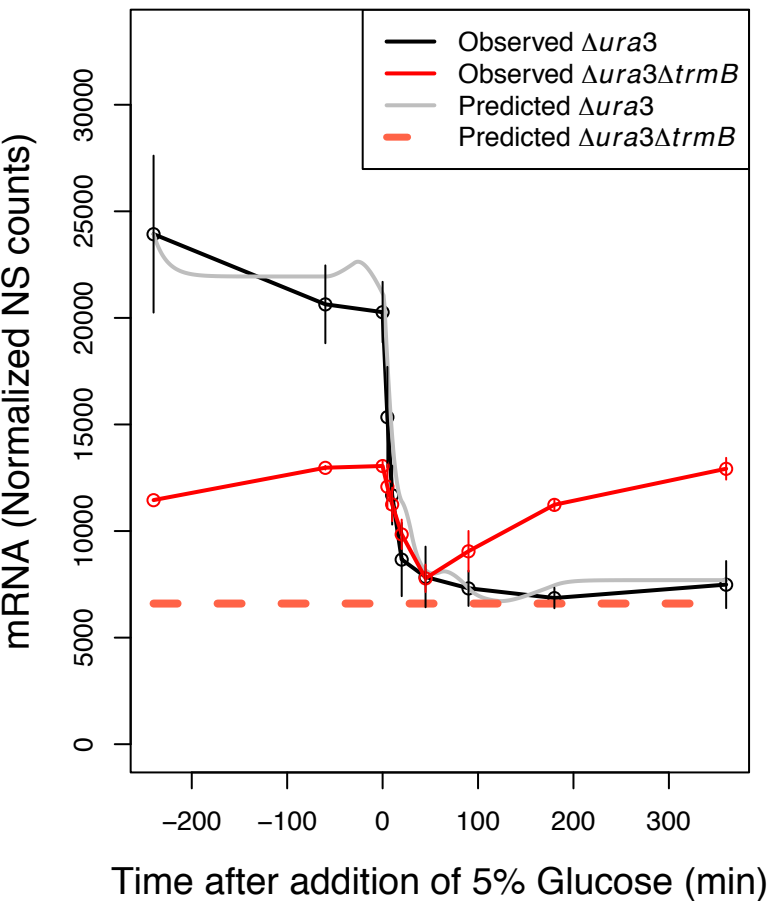
### *ush*



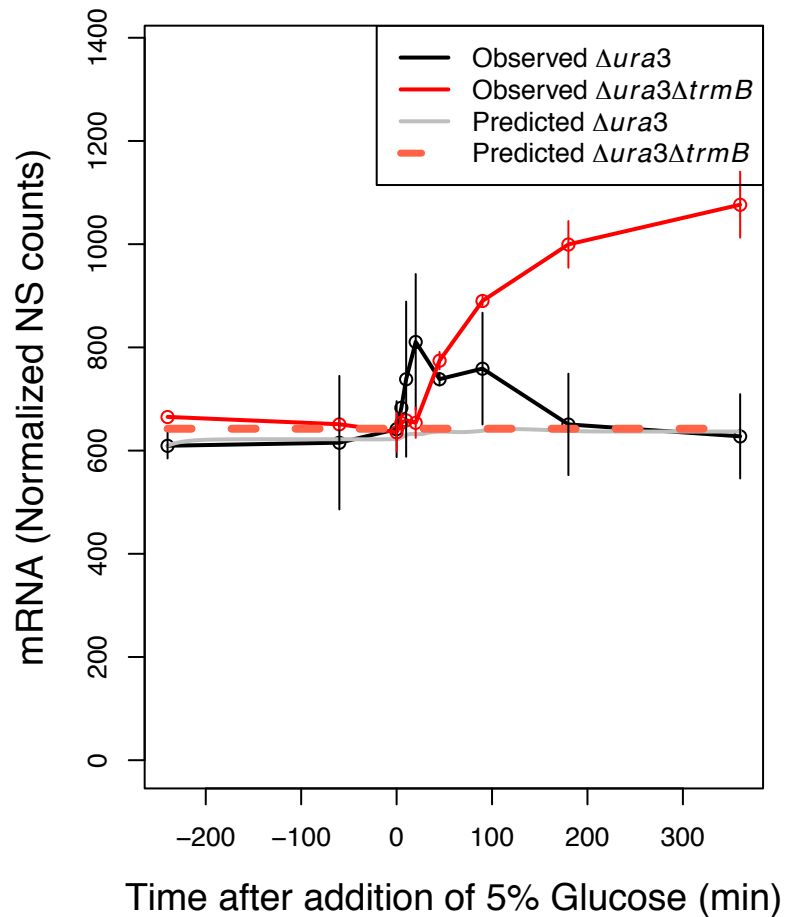
### *VNG0310C*



### *VNG0683C*

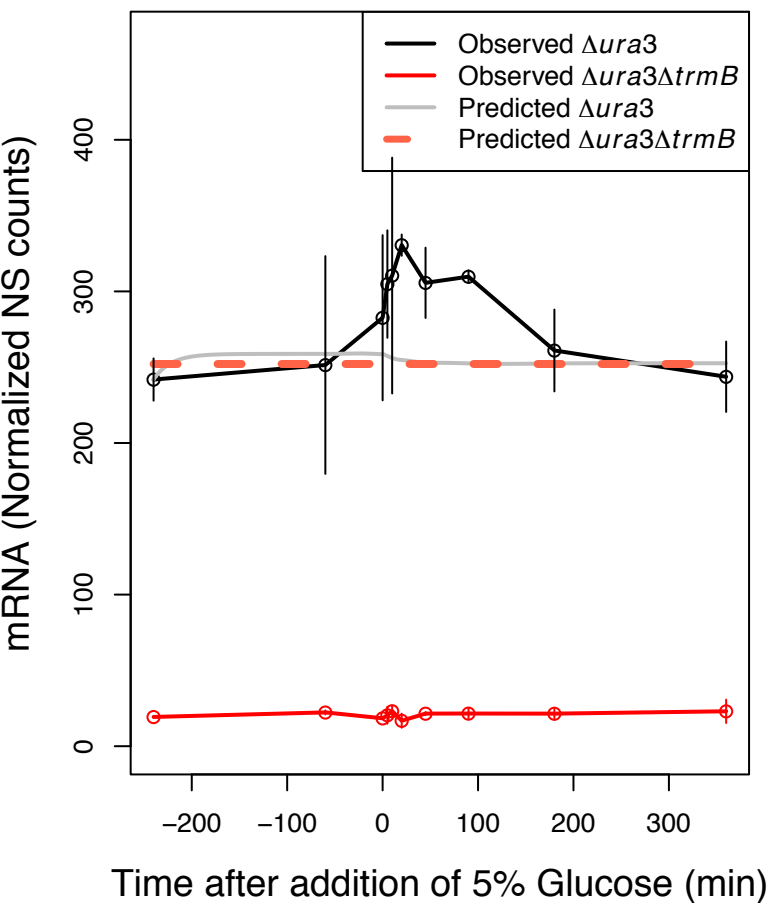


### *VNG1245C*

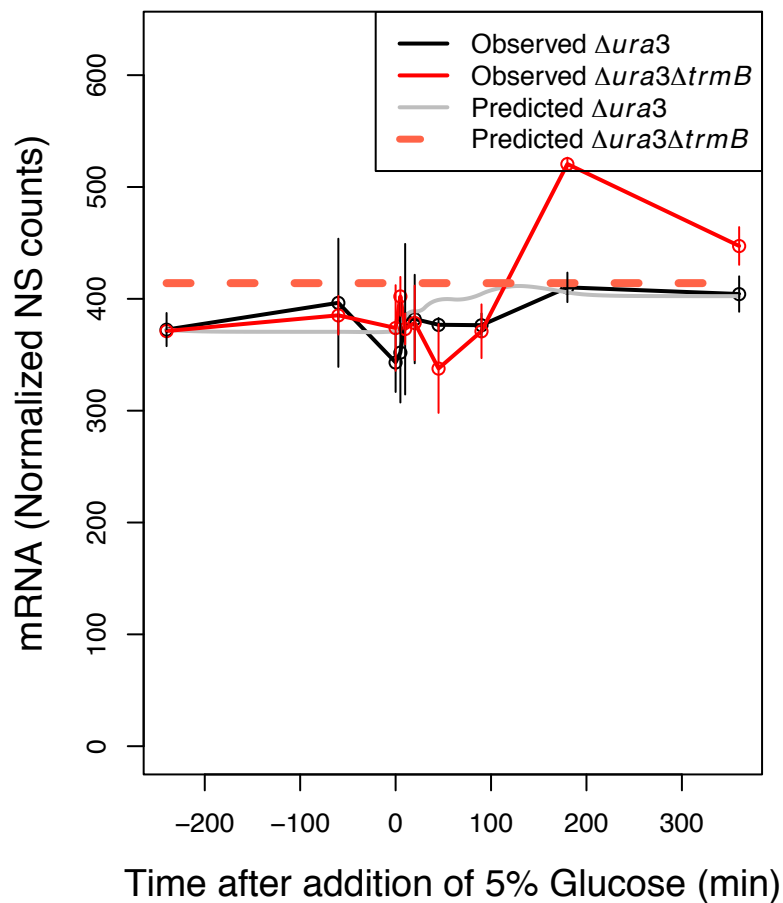




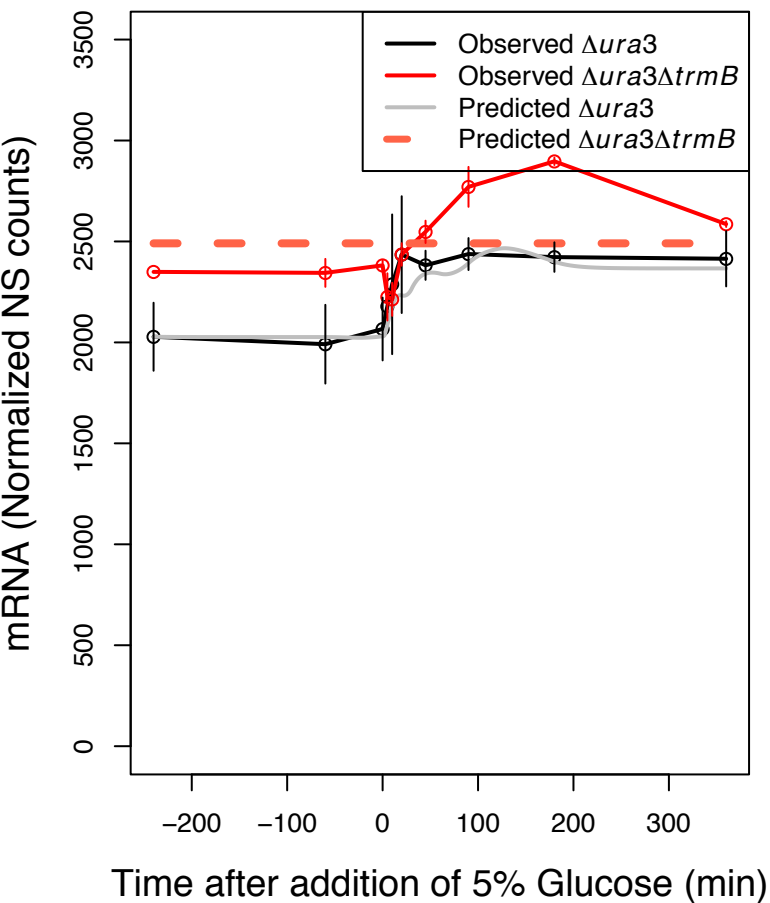
### VNG1451C



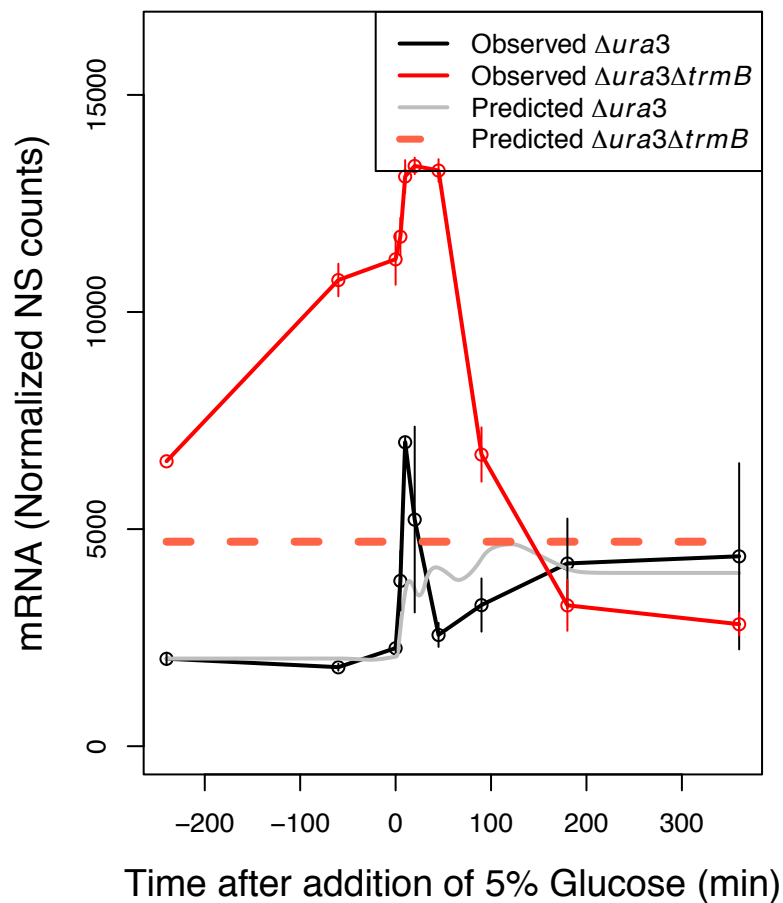
### VNG1670C



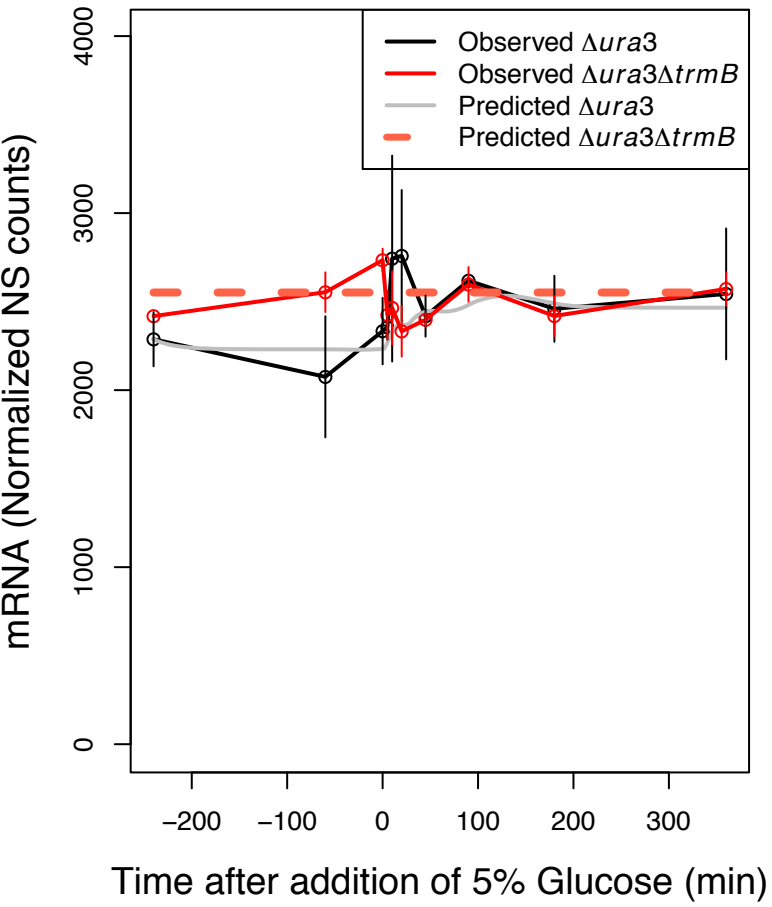
### VNG1775C



### VNG2371C



# yqeC



# ywfD

