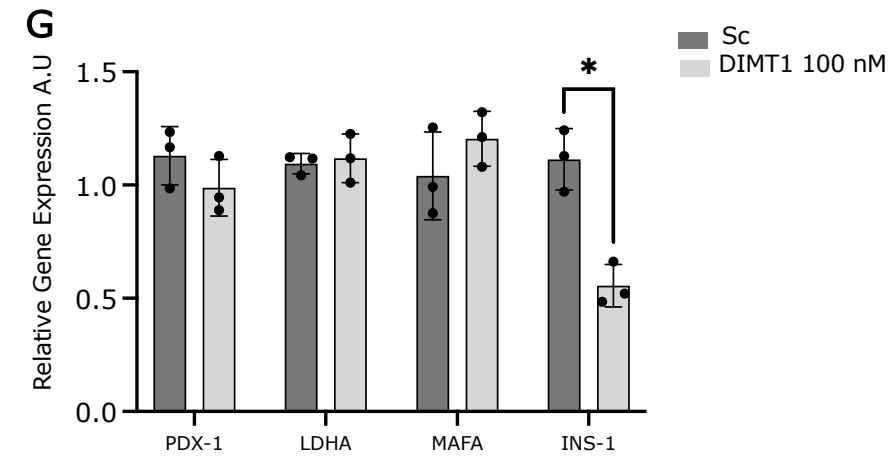
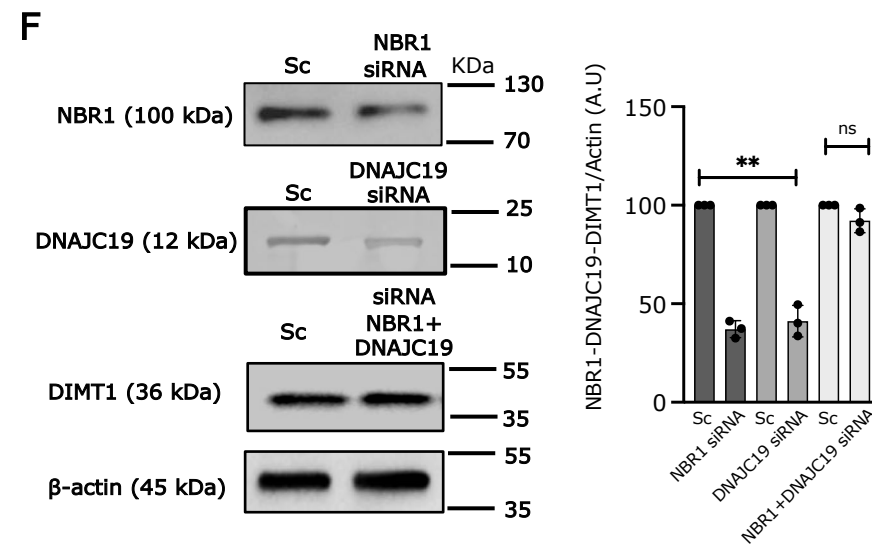
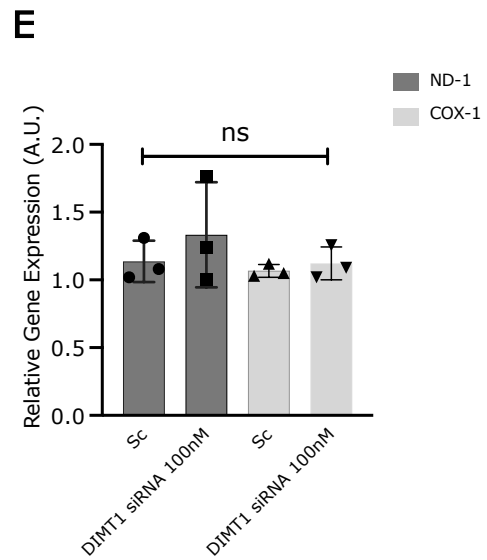
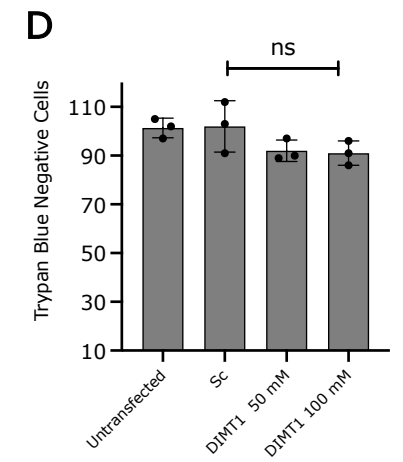
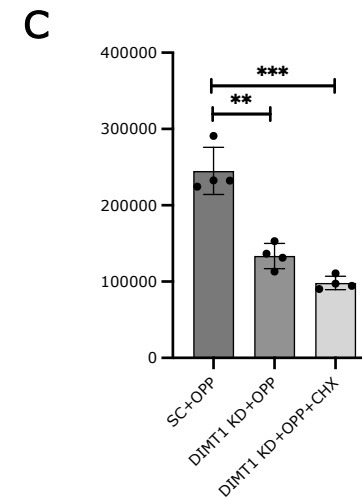
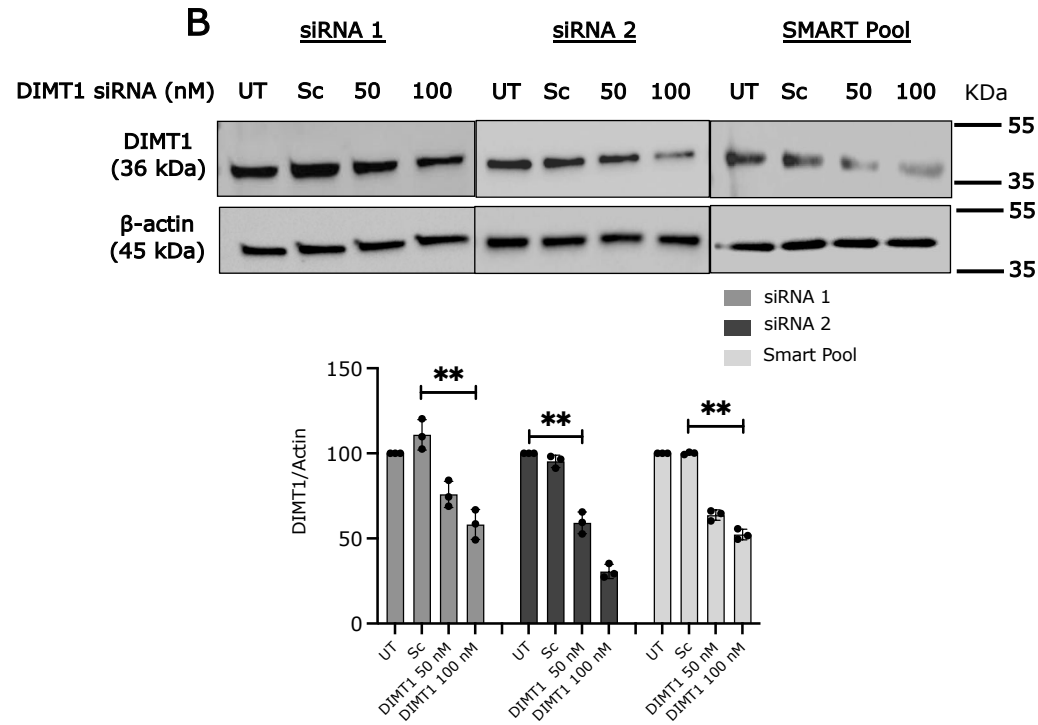
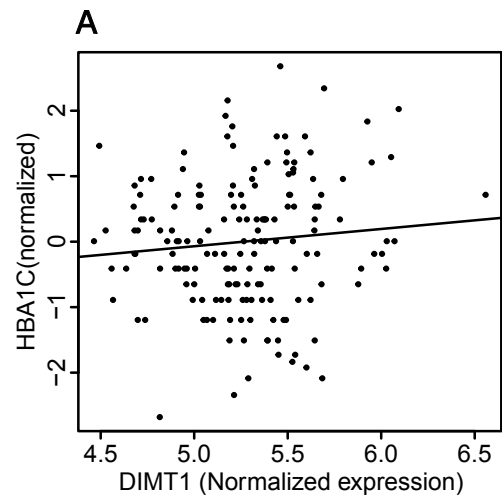
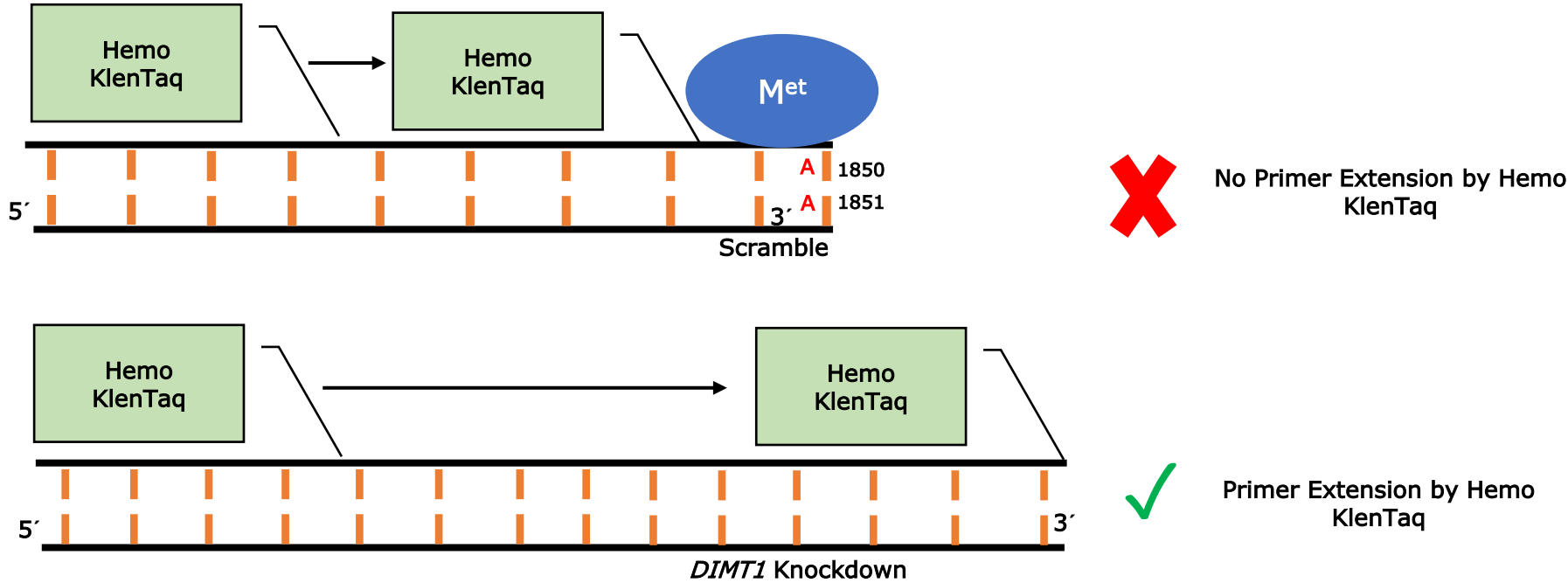


Supplementary Figure S1



Supplementary Figure S2

Primer Extension Method Schematic.



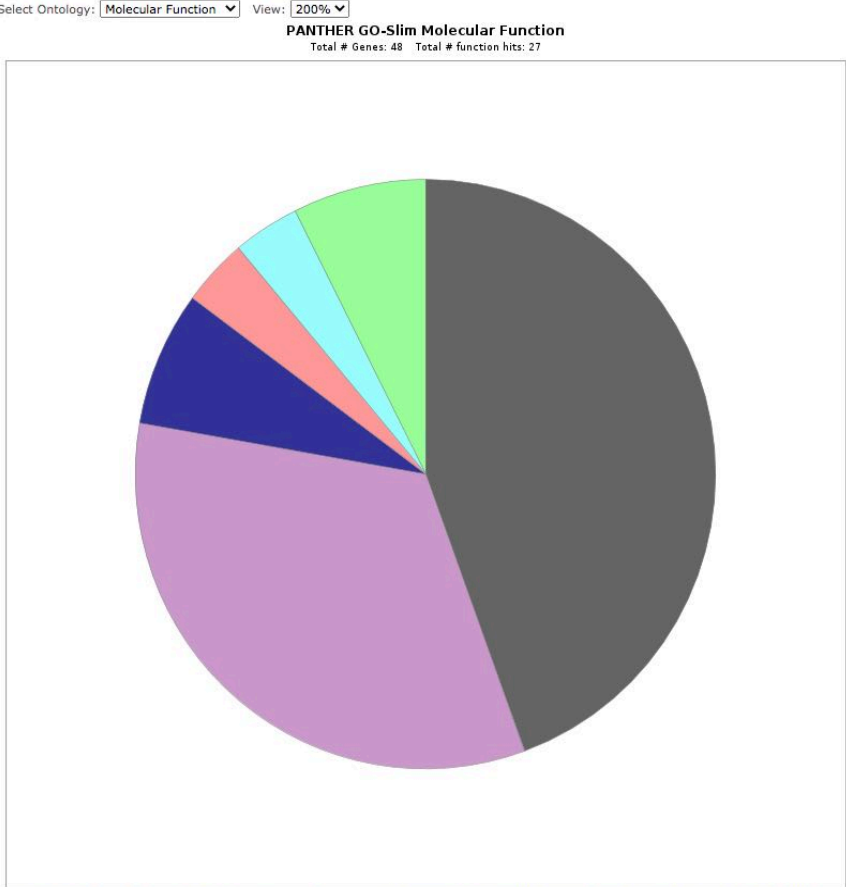
The relative gene expression ratio (R) of a target gene is calculated based on efficiency (E) and the cycle threshold (Ct) deviation of an unknown sample versus a control, and expressed in comparison to a reference gene;

$$\text{Ratio} = \frac{E(\text{Target})^{\Delta Ct \text{ Target}(\text{Control}-\text{Target})}}{E(\text{Ref})^{\Delta Ct \text{ Ref}(\text{Control}-\text{Target})}}$$

Supplementary Figure S3

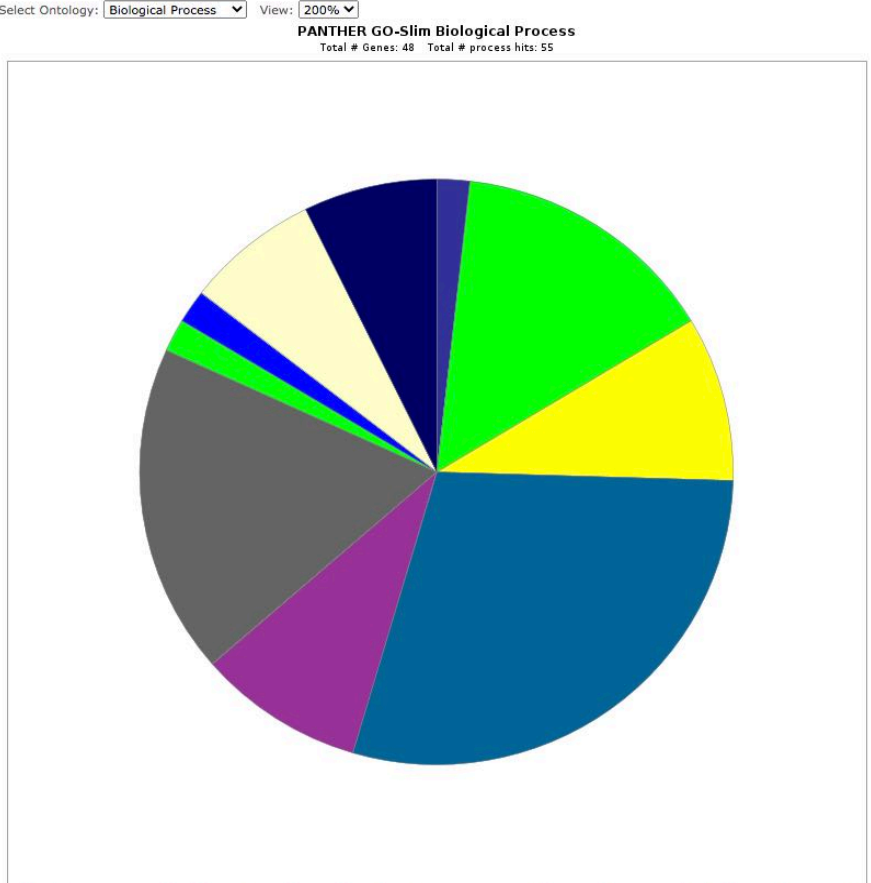
PANTHER Pathway Analysis.

A



**Chart tooltips are read as: Category name (Accession): # genes; Percent of gene hit against total # genes; Percent of gene hit against total # Function hits

B



**Chart tooltips are read as: Category name (Accession): # genes; Percent of gene hit against total # genes; Percent of gene hit against total # Process hits

Supplementary
Figure S4

