

SUPPORTING INFORMATION

Identification of TFG- and autophagy-regulated proteins and glycerophospholipids in B cells

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Supplemental Figure 1: Characterization of proteins and pathways regulated by TFG in a NH₄Cl independent manner by PANTHER pathway analysis

Supplemental Figure 2: Interactions of proteins regulated by TFG in a NH₄Cl independent manner

Supplemental Figure 3: Characterization of proteins and pathways controlled by TFG in a NH₄Cl dependent manner by PANTHER pathway analysis

Supplemental Figure 4: Interaction of proteins controlled by TFG in a NH₄Cl dependent manner and their connection to cellular components

Supplemental Figure 5: Characterization of proteins and pathways up-regulated by NH₄Cl in a TFG-independent manner by PANTHER pathway analysis

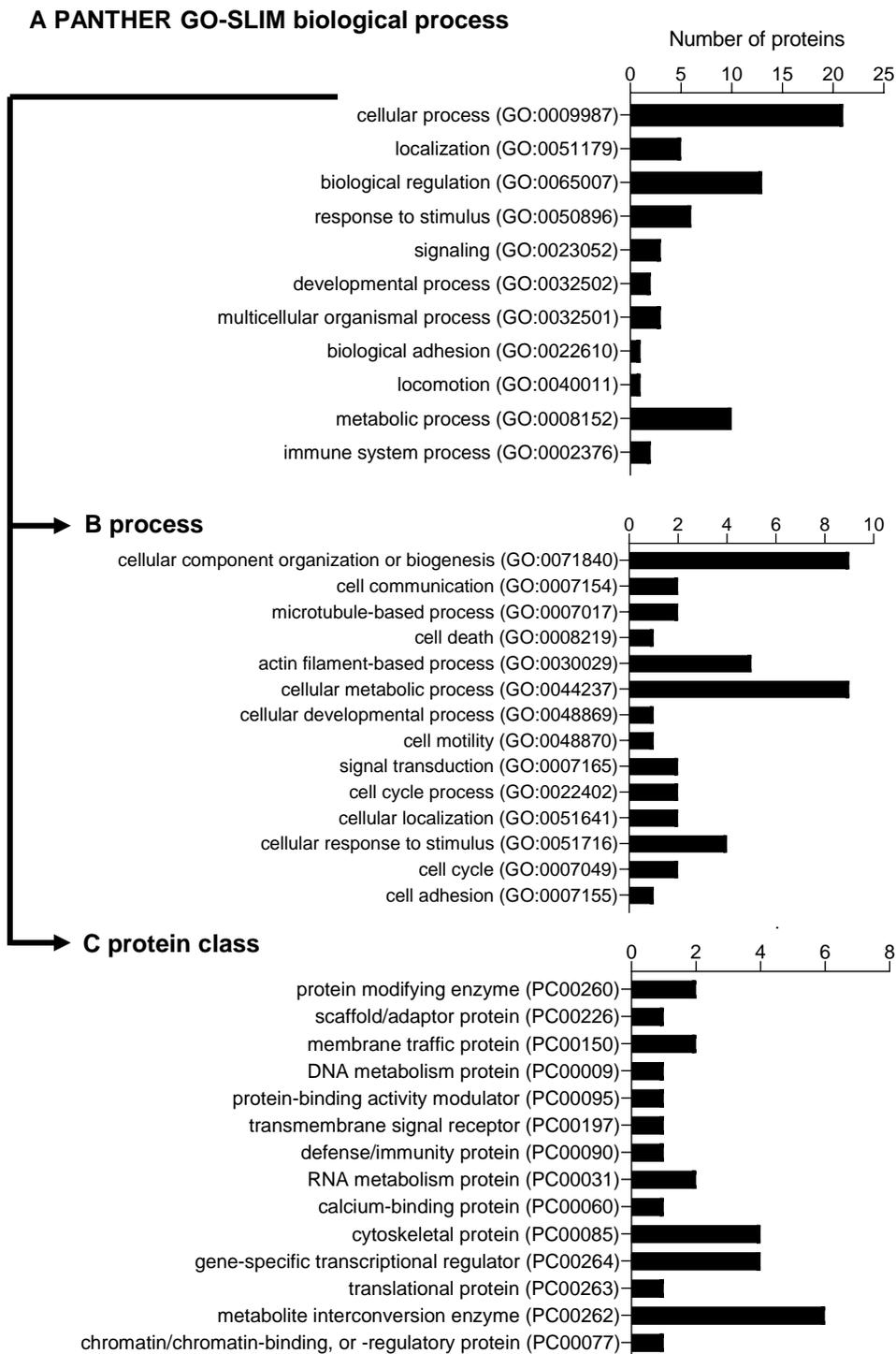
Supplemental Figure 6: Interaction of proteins up-regulated by NH₄Cl in a TFG-independent manner and their connection to cellular components

Supplemental Figure 7: Characterization of proteins and pathways negatively controlled by NH₄Cl in a TFG-independent manner via PANTHER pathway analysis.

Supplemental Figure 8: Interaction of proteins down-regulated by NH₄Cl in a TFG-independent manner and their connection to cellular components

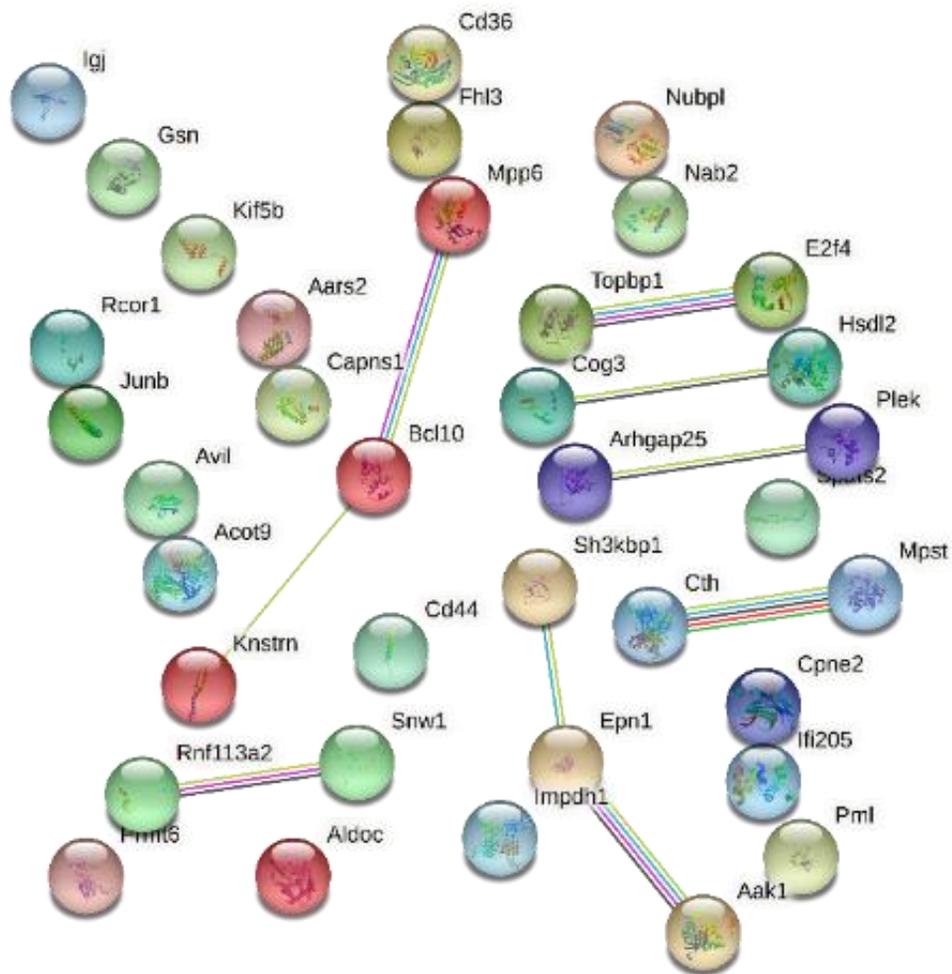
Supplemental Figure 9: Uncut Western Blots of Figure 2

Supplemental Figure 10: Uncut Western Blots of Figure 4



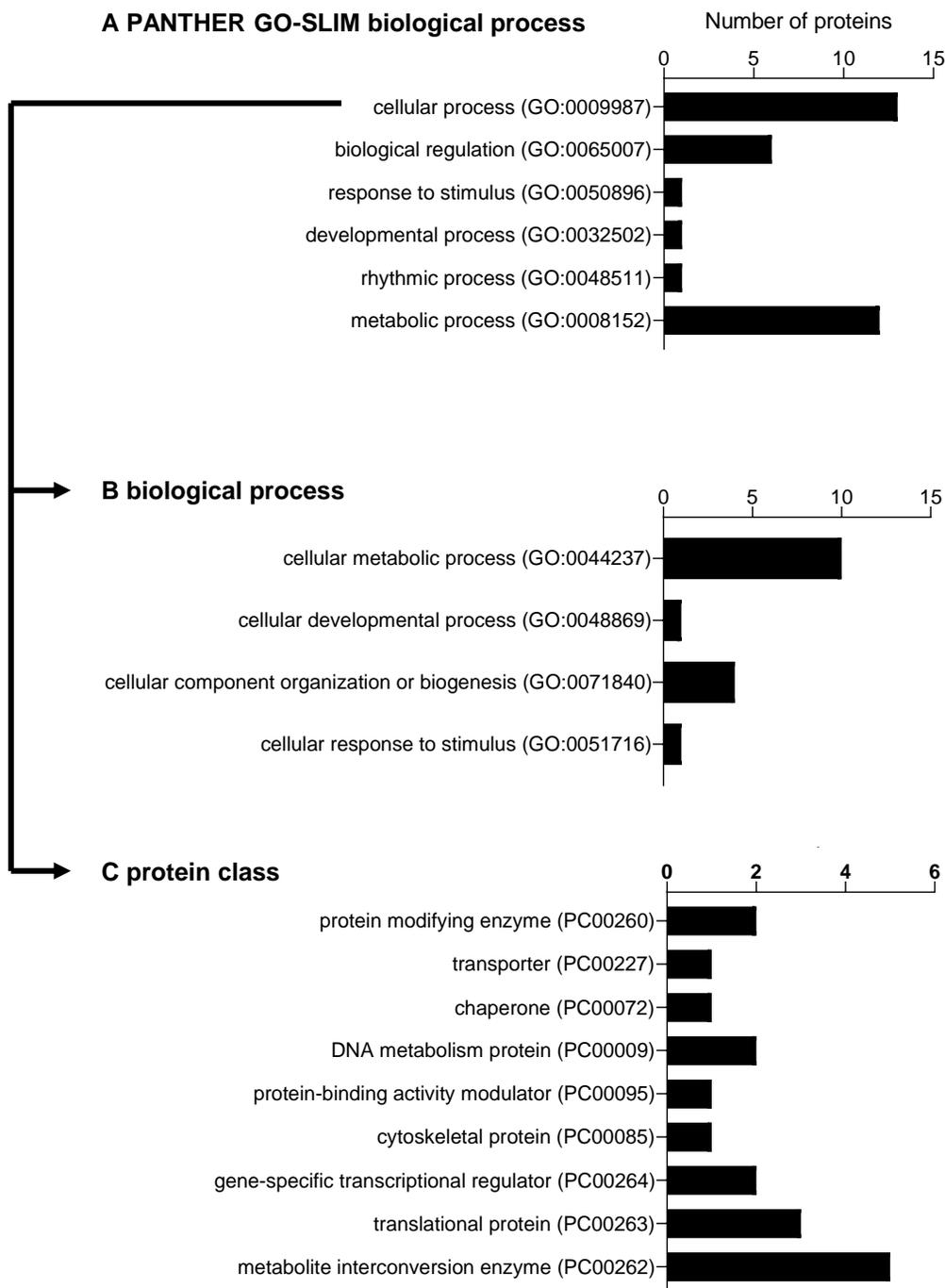
Supplemental Figure 1: Characterization of proteins and pathways regulated by TFG in a NH_4Cl independent manner by PANTHER pathway analysis

Proteins, pathways and functions regulated solely by TFG were analyzed by PANTHER pathway GO SLIM analysis (Release 18.0) of the depicted protein group (group 1, Supplemental table 3). The identified cellular processes (A) were further categorized by process (B) and protein classes (C). Unclassified items are not depicted.



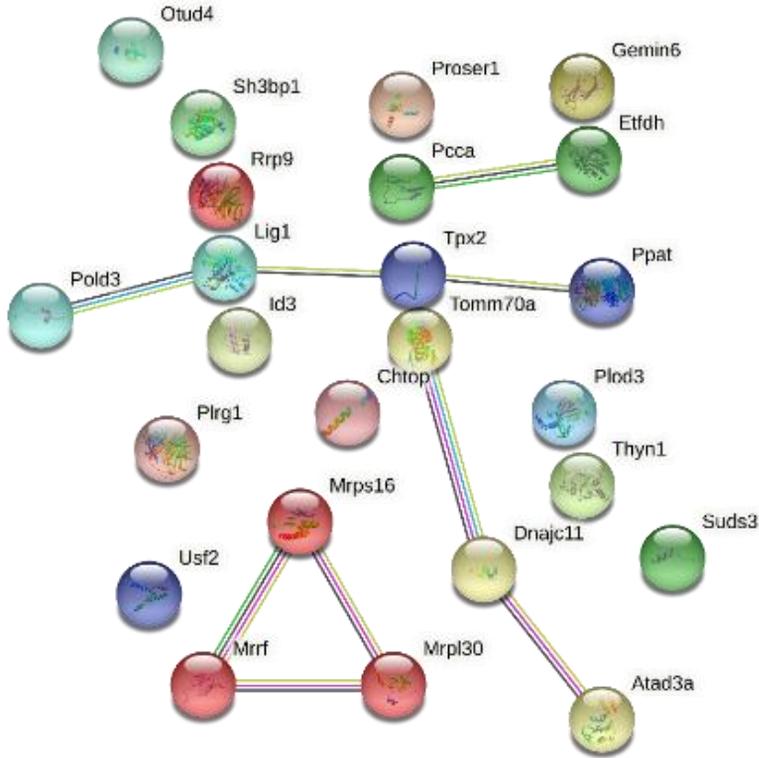
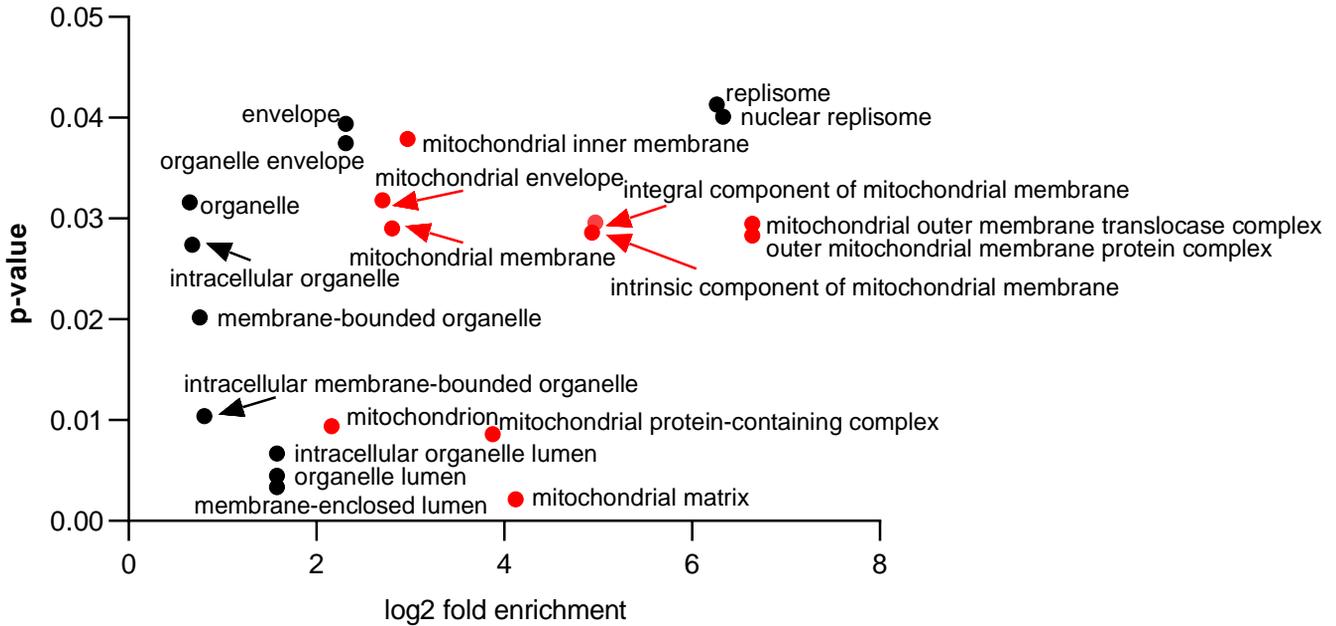
Supplemental Figure 2: Interactions of proteins regulated by TFG in a NH_4Cl independent manner

Proteins regulated solely by TFG (group 1, Supplemental table 3) were clustered via STRING using standard settings.



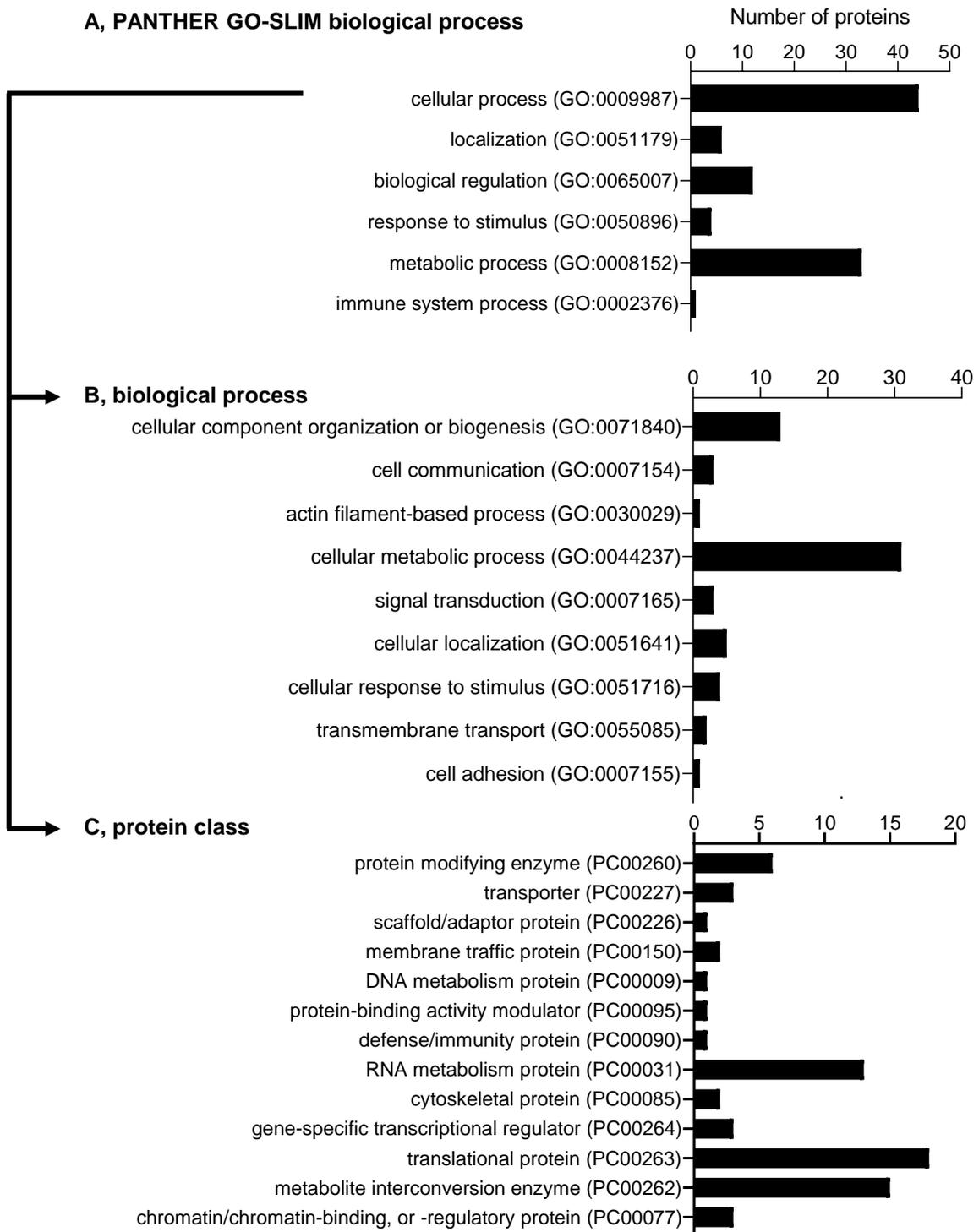
Supplemental Figure 3: Characterization of proteins and pathways controlled by TFG in a NH_4Cl dependent manner by PANTHER pathway analysis

Proteins, pathways and functions of the depicted protein group (group 2, Supplemental table 3), i.e. proteins up-regulated by loss of TFG and also by NH_4Cl in CH12 WT B cells, were analyzed by PANTHER pathway GO SLIM analysis (Release 18.0). The identified cellular processes (A) were further categorized by process (B) and protein classes (C). Unclassified items are not depicted.

A**B**

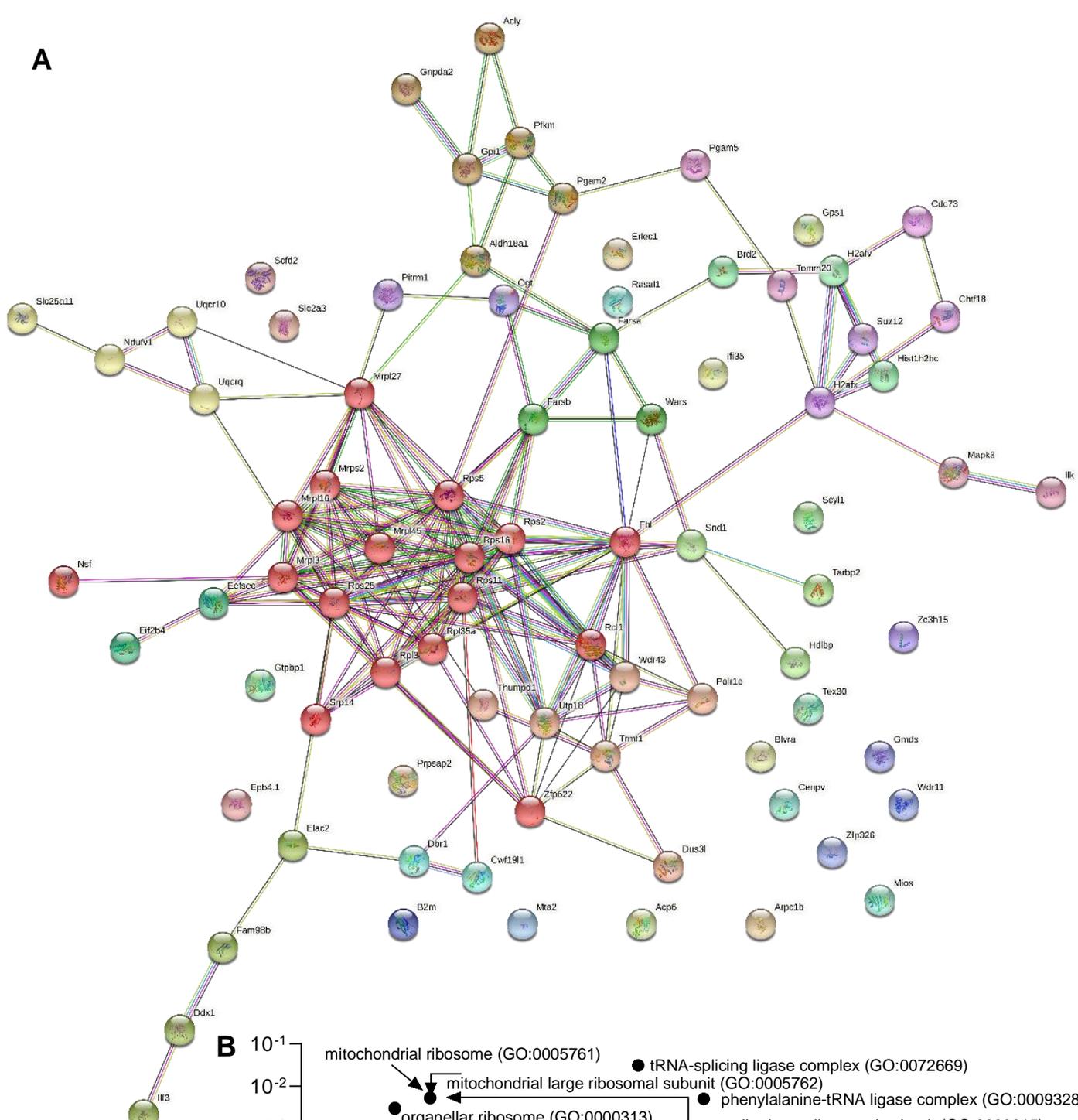
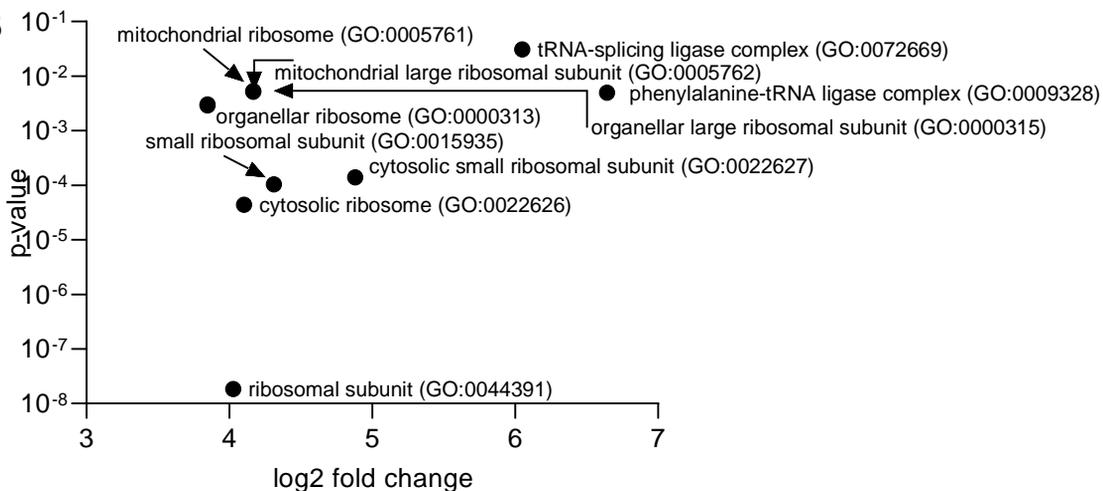
Supplemental Figure 4: Interaction of proteins controlled by TFG in a NH_4Cl dependent manner and their connection to cellular components

Proteins of the depicted protein group (group 2, Supplemental table 3), i.e. proteins up-regulated by loss of TFG and also by NH_4Cl in CH12 WT B cells, were clustered via STRING (A) and analyzed by PANTHER (version 17) over-representation analysis regarding their enrichment in cellular components (Supplemental table 3, volcano plot in B). Mitochondrial compartments: ●.



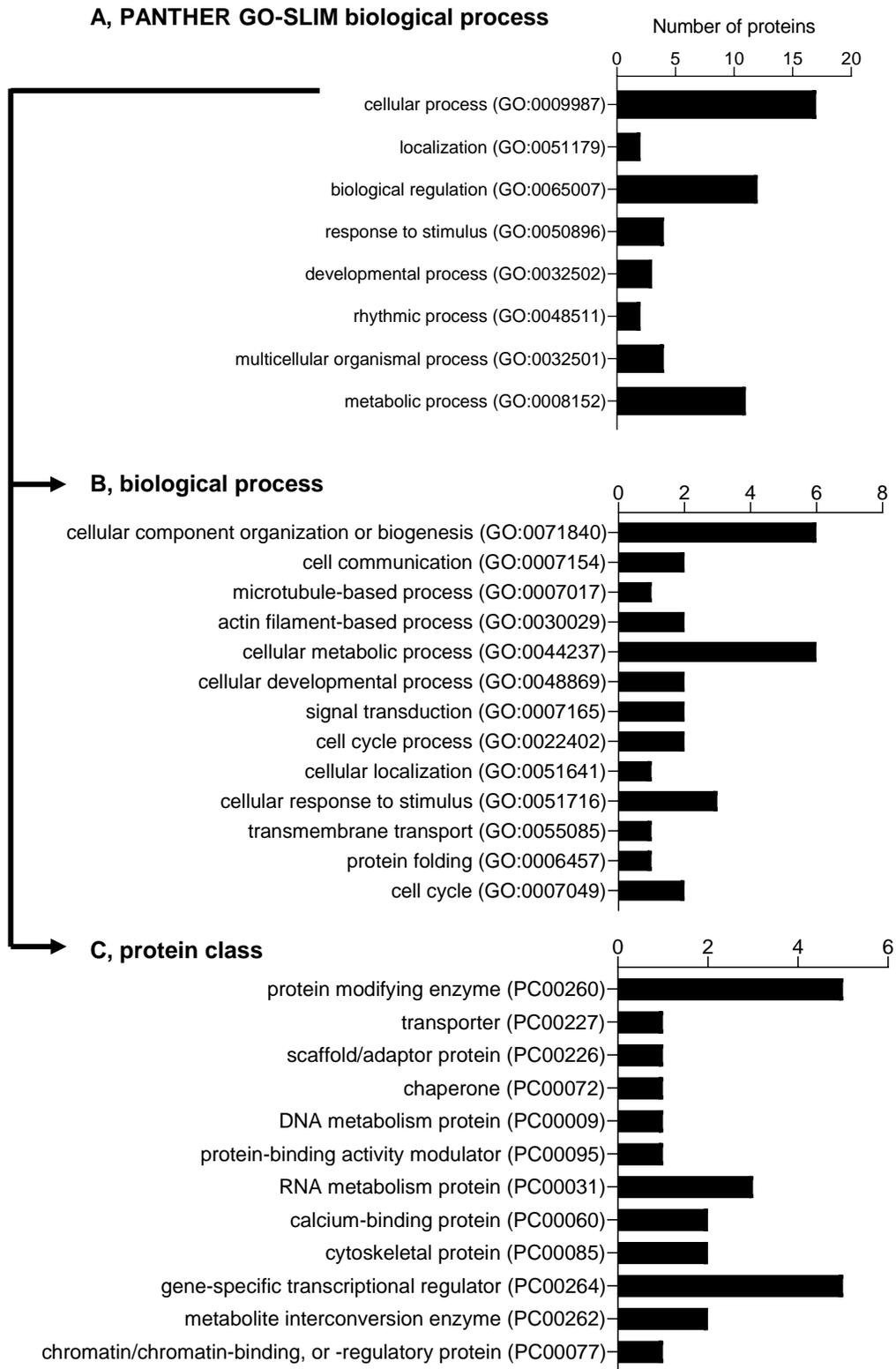
Supplemental Figure 5: Characterization of proteins and pathways up-regulated by NH_4Cl in a TFG-independent manner by PANTHER pathway analysis

Proteins, pathways and functions of the depicted protein group (group 3 up, Supplemental table 3), i.e. proteins up-regulated by NH_4Cl in CH12 WT B and CH12 tfg KO B cells, were analyzed by PANTHER pathway GO SLIM analysis (Release 18.0). The identified cellular processes (A) were further categorized by process (B) and protein classes (C). Unclassified items are not depicted.

A**B**

Supplemental Figure 6: Interaction of proteins up-regulated by NH₄Cl in a TFG-independent manner and their connection to cellular components

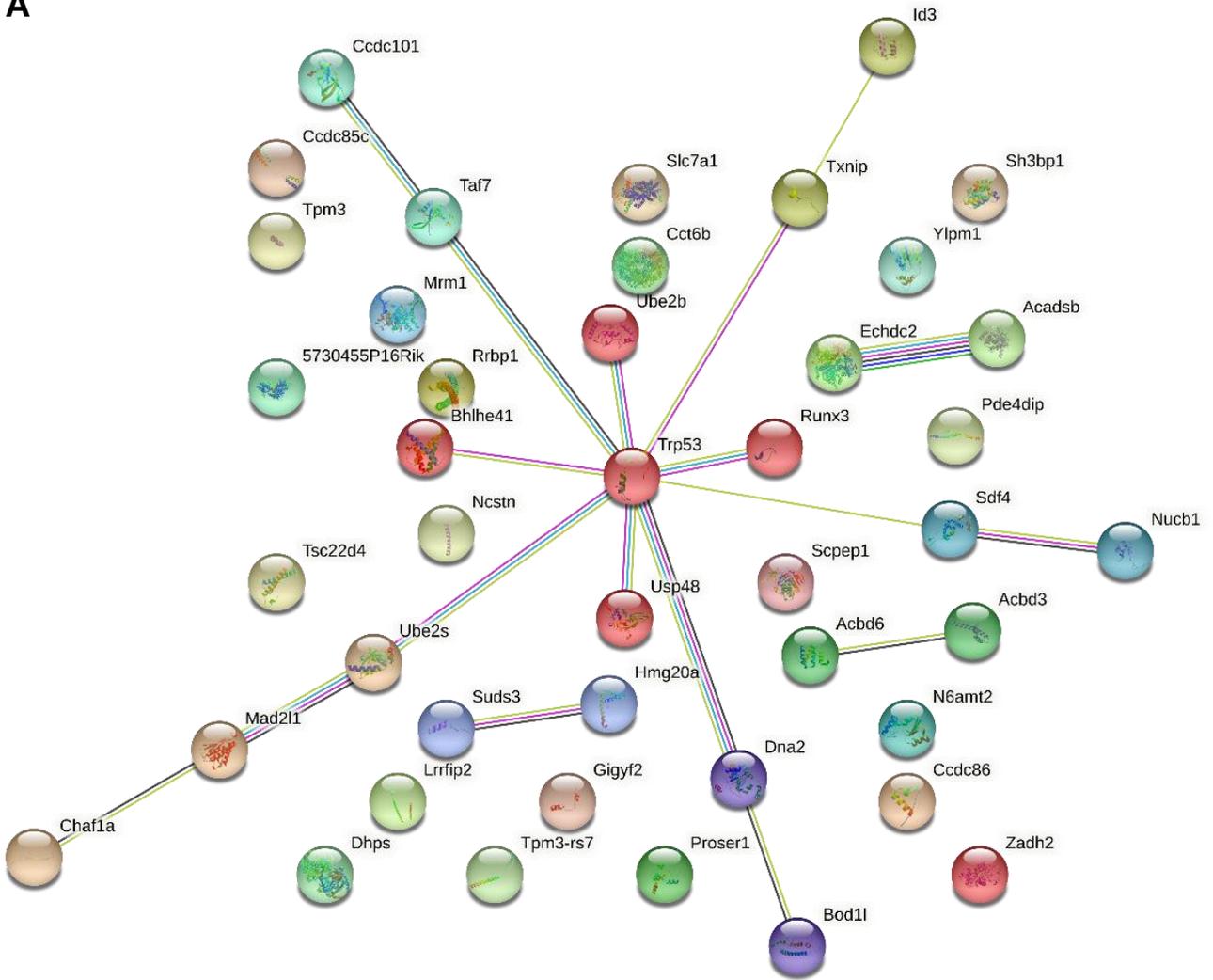
Proteins, pathways and functions up-regulated by NH₄Cl in both CH12 WT B and CH12 *tfg*KO B cells were clustered via STRING using standard settings (A). Their relation to cellular components was assessed by PANTHER (version 17) over-representation analysis of the depicted protein group (Supplemental table 3, volcano plot in B).



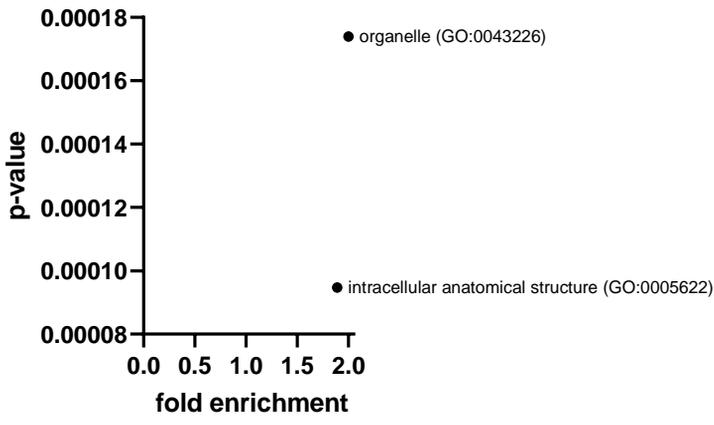
Supplemental Figure 7: Characterization of proteins and pathways negatively controlled by NH_4Cl in a TFG-independent manner via PANTHER pathway analysis.

Proteins, pathways and functions down-regulated by NH_4Cl in both CH12 WT B and CH12 *tfg*KO B cells (Supplemental table 3, group 3 down) were analyzed by PANTHER pathway GO SLIM analysis (Release 18.0). The identified cellular processes (A) were further categorized by process (B) and protein classes (C). Unclassified items are not depicted.

A

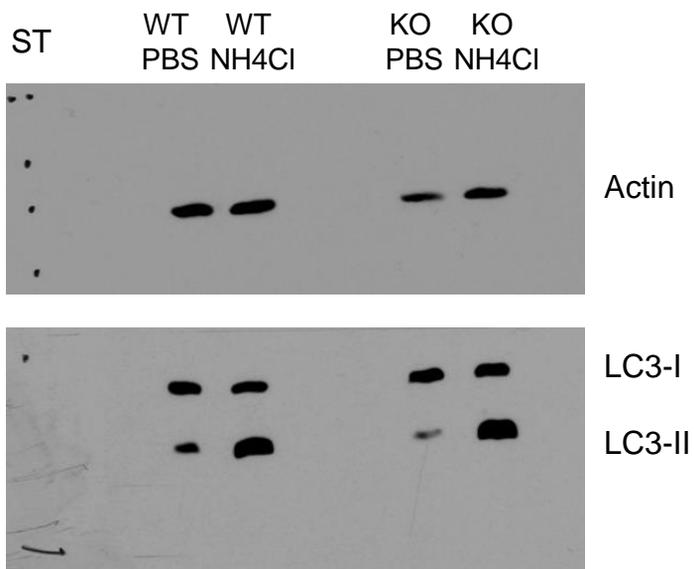


B



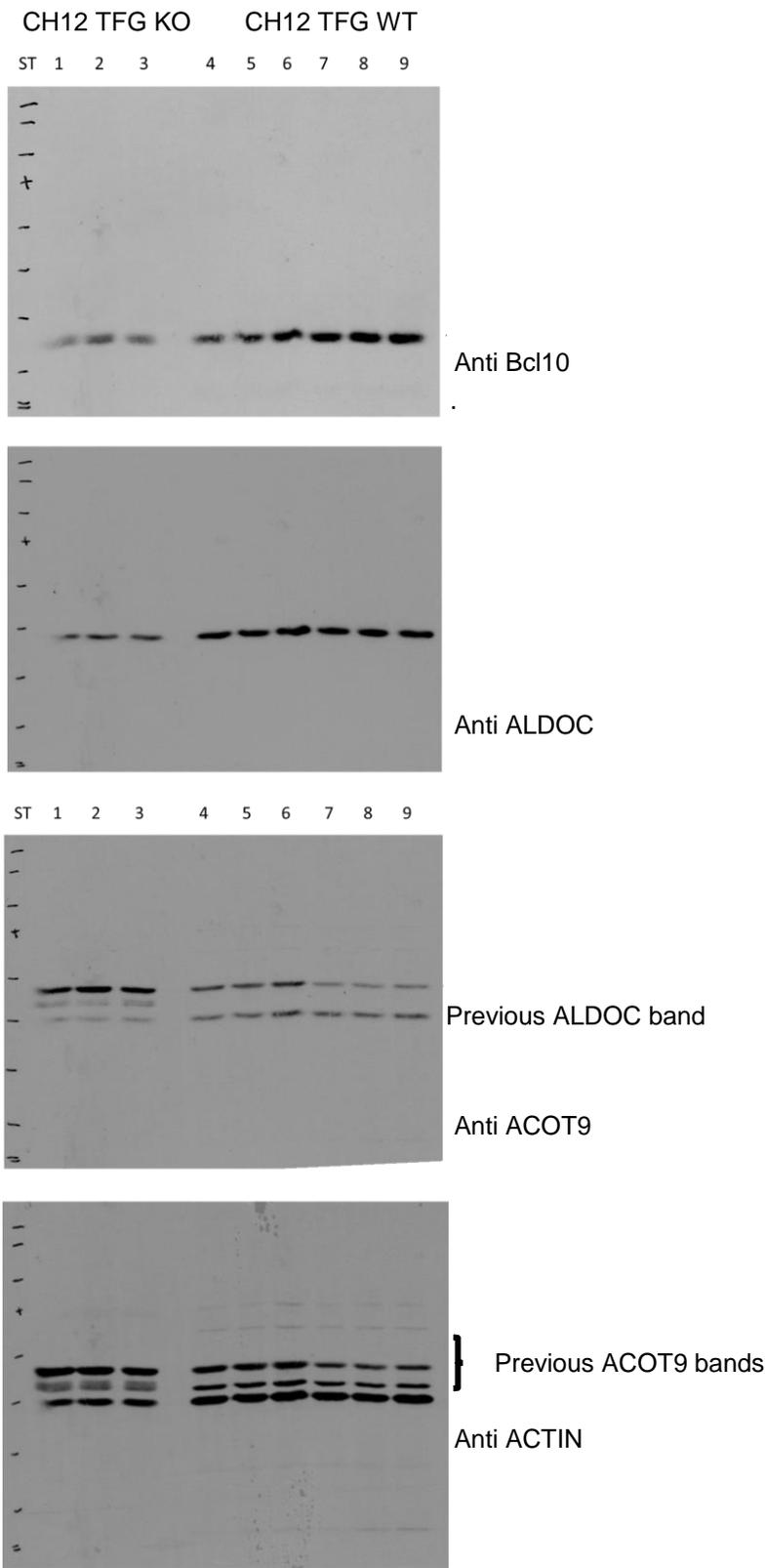
Supplemental Figure 8: Interaction of proteins down-regulated by NH₄Cl in a TFG-independent manner and their connection to cellular components

Proteins down-regulated by NH₄Cl in both CH12 WT B and CH12*tfg*KO B cells (Supplemental table 3, group 3 down) were clustered by STRING using standard settings. Their relation to cellular components was assessed by PANTHER (version 17) over-representation analysis (Supplemental table 3 and Volcano plot in B).



Supplemental Figure 9: Uncut Western Blots of Figure 2

St: Standard, antibodies are depicted on the right



Supplemental Figure 10: Uncut Western Blots of Figure 4

St: Standard, antibodies are depicted on the right