

**A**

<b>Double knockout vs. +/+tg control</b>	<b>P value</b>
Anatomical structure development	$5 \times 10^{-17}$
Cell differentiation	$6 \times 10^{-13}$
Proteinaceous extracellular matrix	$2 \times 10^{-12}$
Extracellular region	$6 \times 10^{-10}$
Cell adhesion	$2 \times 10^{-9}$

**B**

<b><i>Psip1</i> knockout vs. +/+tg control</b>	<b>P value</b>
Proteinaceous extracellular matrix	$6 \times 10^{-18}$
Extracellular region	$3 \times 10^{-15}$
Cell adhesion	$2 \times 10^{-12}$
Extracellular space	$9 \times 10^{-10}$
Nucleic acid binding transcription factor activity	$7 \times 10^{-10}$

S4 Figure